

# Lower Duwamish Waterway

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## NPDES Inspection Sampling Support 2014/2015

Prepared for



Toxics Cleanup Program  
Northwest Regional Office  
Washington State Department of Ecology  
Bellevue, Washington

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# **Appendix L**

## **Recology CleanScapes**



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

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

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## L-1 Introduction and Background

<b>Facility Name</b>	<b>Recology CleanScapes Inc.</b>
<b>Facility/Site ID</b>	41684823
<b>Address</b>	7303 8 <sup>th</sup> Avenue S Seattle, WA 98104
<b>NPDES Permit Type</b>	Industrial Stormwater General Permit
<b>NPDES Permit No.</b>	WAR000949
<b>Permit Monitoring Requirements</b>	Turbidity, pH, total zinc, total copper, petroleum-oil, grease
<b>SIC Code</b>	4231: Trucking Terminal Facilities 4212: Transportation (Trucking without storage)
<b>Inspection Date</b>	September 3, 2014
<b>Grab Samples</b>	2 water samples; 1 solids sample
<b>Sample ID(s)</b>	CS-TS-01-20140903-W CS-SP-01-20140903-W CS-CB-01-20140903-S
<b>Water Sample Analytes</b>	Total metals, mercury, PCB congeners, SVOCs, dioxins/furans, alkalinity, bicarbonate/carbonate, sulfate, chloride, nitrate, specific conductance, pH, TOC, TSS
<b>Solids Sample Analytes</b>	Metals, mercury, PCB Aroclors, PCB congeners, dioxins/furans, SVOCs, TPH-diesel/motor oil, grain size, TOC
<b>Split Samples with Facility</b>	Yes

Recology CleanScapes, Inc. (CleanScapes) is a waste transportation facility located adjacent to the Lower Duwamish Waterway (LDW) at approximately River Mile 2.7 East. Stormwater from the site is discharged directly to surface water. CleanScapes collects municipal solid waste, including garbage, recycling, and yard/food waste. Facility operations include vehicle parking, general dumpster and cart transportation, vehicle maintenance, truck washing, cart washing, container painting, and compressed natural gas and diesel vehicle fueling (SoundEarth 2013). The facility stores cleaned 55-gallon recycling/garbage bins in the northwest area of the property. An overview of the facility is presented in Figure L-1.

### L-1.1 Stormwater Conveyance and Treatment System

In the north yard, stormwater is collected via catch basins (CB1, CB4, CB5, and CB6) and is pumped from sumps A and D to the North Yard Advanced Treatment System (Figure L-1). The stormwater is mixed with 1% chitosan acetate polymer and conveyed to a pre-treatment stormwater tank, then to sand filters for particulate removal. Prior to discharge from the treatment system, stormwater is monitored for pH and turbidity. If stormwater exceeds pH or turbidity parameters, it is recirculated through the system. Following treatment, stormwater is conveyed to the downstream side of sump D and discharged to the LDW via outfall D. In the

event that a storm event exceeds system capacity, stormwater overflows the weirs at sumps A and D and discharges directly to the LDW (SoundEarth 2013).

In the south yard, stormwater is collected via catch basins (CB2, CB3, CB7) and is pumped to sump B. Stormwater in sump B is pumped to a settling tank and treatment system prior to discharge to the LDW via outfall B. Outfall C at the facility is plugged (SoundEarth 2013).

## L-1.2 Recent Compliance History

Based on available discharge monitoring reports, CleanScapes exceeded benchmarks as follows (Ecology 2015):

- copper, zinc and turbidity during the 1<sup>st</sup> quarter of 2013;
- zinc and turbidity during the 2<sup>nd</sup> quarter of 2013;
- copper, zinc and turbidity during the 3<sup>rd</sup> quarter of 2013;
- copper, zinc, turbidity, and oil and grease during the 4<sup>th</sup> quarter of 2013.

Both treatment systems described in Section L-1.1 began operation in December 2013.

## L-2 Inspection and Sampling

### L-2.1 September 2014 Stormwater Compliance Inspection

On September 3, 2014, Ecology conducted a stormwater compliance inspection at CleanScapes. Leidos assisted Ecology with inspection and sampling of the facility's stormwater conveyance system. The inspection included investigating influent and effluent points at drainage structures, preparing written and photographic documentation, and assessing whether the drainage structures contained sufficient sampleable material. The coordinates of sample locations are plotted on Figure L-2 using geographic information system software. An inspection photographic log and field documentation are presented in Attachments L-1 and L-2, respectively.

The field team inspected the following stormwater conveyance structures at CleanScapes, as shown on Figures L-1 and L-2 (structures where samples were collected are shown in bold font):

- **Catch basin 1 (CS-CB-01)**
- **Sump D (CS-SP-01)**
- Sump A (CS-MH-02)
- Sump B (CS-SP-02)
- **Treatment system (CS-TS-01)**

Location CS-CB-01 contained sufficient sampleable solid material and was representative of storm drain solids at the facility. Locations CS-SP-01 and CS-TS-01 contained sufficient water to collect a grab water sample. Storm drain structure inspection locations are shown on Figure L-2.

## **L-2.2 Stormwater Conveyance System Sampling**

Ecology collected two water samples and one solids sample from the stormwater conveyance system at CleanScapes. Sample locations, analytes, and analytical methods are listed on Table L-1. Results for water samples are presented in Tables L-2 through L-6. Results for the solids sample are presented in Tables L-7 through L-9. Chain of custody forms and laboratory reports are provided as Attachments L-3 and L-4, respectively. Ecology's compliance inspection report for the September 3, 2014 inspection is presented in Attachment L-5. Split sample results provided by CleanScapes are included as Attachment L-6.

### **L-2.2.1 Water Samples**

Water sample CS-TS-01-20140903-W was collected from location CS-TS-01 from the sampling port of the stormwater treatment system (Figure L-2 and Attachment L-1). CleanScapes' consultant manually activated the treatment system for sample collection. The stormwater sample represents treated effluent. The treatment system receives stormwater from the north yard at the facility. Additional information regarding the treatment system at CS-TS-01 is provided in Section L-1.1.

Water sample CS-SP-01-20140903-W was collected from sump D at location CS-SP-01 (Figure L-2 and Attachment L-1). The sump is located in the northwest corner of the CleanScapes facility and receives stormwater from sump A and drainage from the recycle bin container area. Oil droplets were observed suspended in the water column.

### **L-2.2.2 Solids Sample**

Solid sample CS-CB-01-20140903-S was collected from location CS-CB-01 (Figure L-2 and Attachment L-1). Catch basin CB1 is located in the north yard and receives stormwater from the truck parking area. The catch basin had a filter sock that was removed prior to sampling. The sample consisted of dark brown and black silty/clay solids. A moderate petroleum odor was detected during sample collection. The sample was not analyzed for volatile organic compounds due to the fine particles and gelatinous consistency of the solid material. In general, minimal solids were observed in catch basins and the treatment system.

## **L-3 Results**

### **L-3.1 Chemical Analysis**

Ecology collected two water samples and one solids sample during the September 3, 2014 stormwater compliance inspection at CleanScapes. Analytical methods, chemical results, and regulatory criteria are presented in Tables L-1 through L-9.

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

Copper, zinc, mercury, and total PCB congeners exceeded one or more screening levels in water samples (Table L-4). Zinc, total PCB congeners, bis(2-ethylhexyl)phthalate, butylbenzylphthalate, diesel-range hydrocarbons, and motor oil-range hydrocarbons exceeded one or more screening levels in solids samples (Table L-8).

### L-3.2 Inspection Results and Permit Compliance Requirements

During the September 2014 inspection, Ecology noted that more than 75 garbage trucks were parked overnight at the facility. The amount of oil drops and leaks was very noticeable. Inspection of all equipment and vehicles during the monthly site inspections for leaking fluids is required. Minimal solid material was observed in the catch basins.

During the September 2014 inspection, Ecology identified the following compliance issues and requirements (Ecology 2014):

- Update the SWPPP and site map to include the two new treatment systems, include the Operation and Maintenance Manual, and submit a revised SWPPP to Ecology within 30 days.
- Cover and keep dumpster lids closed when not in use.
- Provide proper cover and containment for all containers of liquid petroleum, chemical products, and wastes stored outside.

## L-4 References

Ecology (Washington State Department of Ecology). 2014. Stormwater Compliance Inspection Report: Recology CleanScapes Inc. December 9, 2014.

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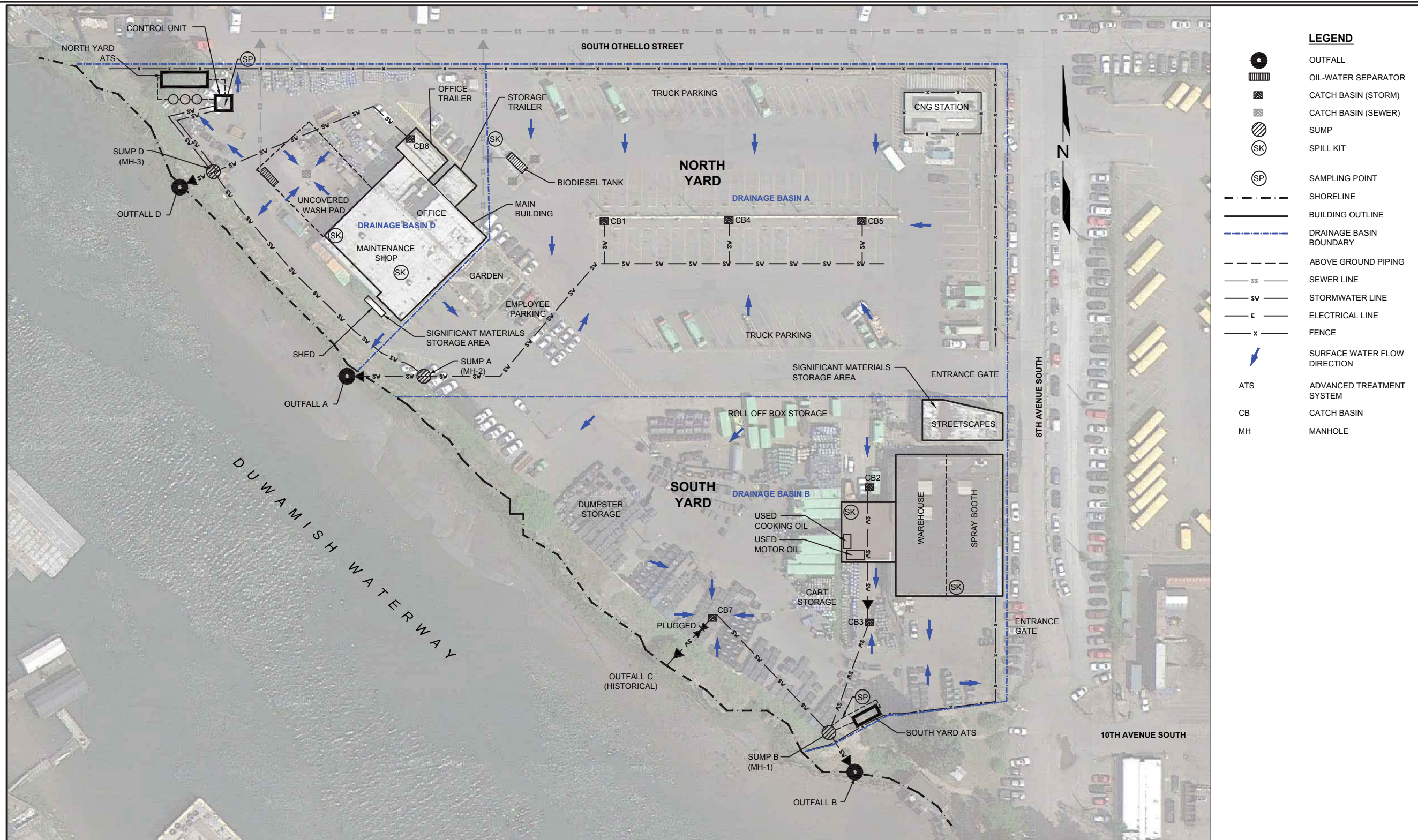
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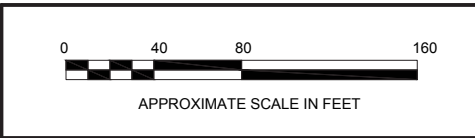
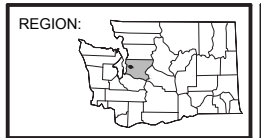
# Figures





DATE: 01/29/14  
 DRAWN BY: JQC/BLR  
 CHECKED BY: LMK  
 CAD FILE: 0890-002\_2014SWPPP\_FD

PROJECT NAME: RECOLOGY CLEANSCAPES  
 PROJECT NUMBER: 0890-001  
 STREET ADDRESS: 7308 8TH AVENUE SOUTH  
 CITY, STATE: SEATTLE, WASHINGTON



**FIGURE 2**  
 SITE MAP

Figure L-1. Recology CleanScapes Site Map







Figure L-2. Recology CleanScapes Inspection and Sample Locations

# Tables

## Acronyms and Abbreviations Used in Tables

<	not detected
%	percent
2LAET	Second Lowest Apparent Effects Threshold
CaCO <sub>3</sub>	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 L-1. Sampling Locations and Analytical Methods  
Recology CleanScapes**

Analyte	Method	Sample Location / Collection Date		
		CS-SP-01 9/3/2014	CS-TS-01 9/3/2014	CS-CB-01 9/3/2014
<b>Water Samples</b>				
Metals (total)	EPA 200.8	●	●	
Mercury (total, dissolved)	SW 7470A	●	●	
PCB Congeners	EPA 1668C	●	●	
SVOCs	SW 8270D	●	●	
Dioxins/furans	EPA 1613B	●	●	
Alkalinity/Bicarbonate/Carbonate	EPA 310.1	●	●	
Anions	EPA 300.0	●	●	
Specific Conductance	EPA 120.1	●	●	
pH	SM 4500H+B	●	●	
Total organic carbon	SM 5310B	●	●	
Total suspended solids	SM 2540D	●	●	
<b>Solids Samples</b>				
Metals (total)	SW 6020			●
Mercury	SW 7471A			●
PCB Aroclors	EPA 8082			●
PCB Congeners	EPA 1668C			●
Dioxins/furans	EPA 1613B			●
SVOCs	SW 8270C-Low			●
TPH-diesel/motor oil	NWTPH-Dx			●
Grain size	PSEP Plumb 1981			●
Total organic carbon	PSEP 9060			●

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

**Table L-2. Water Quality Data - Field Measurements  
Recology CleanScapes**

Location ID			CS-TS-01	CS-SP-01
Collection Date			9/3/2014	9/3/2014
Analyte	ISGP Benchmark	Units	Result	Result
<b>Field Parameters</b>				
Flow	--	Yes/No	Yes	No
pH	5.0 to 9.0	std units	5.8	5.7
Conductivity	--	mS/cm	0.18 a	0.16
Temperature	--	degrees C	18.6	19.9
Total Dissolved Solids	--	mg/L	na	na
Turbidity	25	NTU	10	25
Oil & Grease	No visible sheen	Yes/No	No	<b>Yes</b>
Dissolved Oxygen	--	mg/L	na	3.5 b
ORP	--	mV	na	na

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

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

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

**Table L-3. Water Sample Results  
Recology CleanScapes**

Analyte	Location ID					CS-SP-01	CS-TS-01
	Collection Date					9/3/2014	9/3/2014
	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	Result
		Marine		HHO	HHO		
Chronic	Acute						
<b>Total Metals (µg/L)</b>							
Antimony	--	--	--	--	--	<b>1.9</b>	<b>1.8</b>
Arsenic	150	36	69	--	--	<b>1.9</b>	<b>1.6</b>
Beryllium	--	--	--	--	--	< 0.40 U	< 0.40 U
Cadmium	2.1	9.4	42	--	--	<b>0.78</b>	<b>0.62</b>
Chromium	--	--	--	--	--	<b>2.3</b>	<b>1.7</b>
Chromium, hexavalent	--	--	--	--	--	na	na
Copper	14	3.7	5.8	--	--	<b>29</b>	<b>25</b>
Lead	81.6	8.5	221	--	--	<b>8.5</b>	<b>5.7</b>
Mercury	1.4	0.025	2.1	--	--	<b>0.088 J</b>	<b>0.059 J</b>
Nickel	--	8.3	75	--	--	<b>5.8</b>	<b>7.5</b>
Selenium	5	71	291	--	--	< 1.0 U	< 1.0 U
Silver	3.8	--	2.2	--	--	<b>0.037 J</b>	< 0.4 U
Thallium	--	--	--	--	--	< 1.0 U	< 1.0 U
Zinc	117	86	95	--	--	<b>200</b>	<b>240</b>
<b>PCB Congeners (ug/L) <sup>a</sup></b>							
Total PCB Congeners	--	0.03	10	1.70E-04	6.40E-05	<b>0.016 J</b>	<b>0.00398 J</b>
PCB TEQ, nd SDL*0	--	0.03	10	--	--	<b>1.89E-06 J</b>	<b>7.69E-09 J</b>
PCB TEQ, nd SDL*0.5	--	0.03	10	--	--	<b>1.90E-06 J</b>	<b>2.18E-07 J</b>
PCB TEQ, nd SDL*1	--	0.03	10	--	--	<b>1.92E-06 J</b>	<b>4.29E-07 J</b>
<b>Dioxins and Furans (pg/L) <sup>a</sup></b>							
2,3,7,8-TCDD	--	--	--	0.014	0.0051	< 0.869 U	< 0.943 U
1,2,3,7,8-PeCDD	--	--	--	--	--	< 0.759 U	< 0.513 U
1,2,3,4,7,8-HxCDD	--	--	--	--	--	< 2.21 U	< 1.68 U
1,2,3,6,7,8-HxCDD	--	--	--	--	--	< 1.93 U	< 1.58 U
1,2,3,7,8,9-HxCDD	--	--	--	--	--	< 2.02 U	< 1.95 U
1,2,3,4,6,7,8-HpCDD	--	--	--	--	--	<b>15.9 J</b>	<b>3.99 J</b>
OCDD	--	--	--	--	--	<b>103</b>	<b>20.6 J</b>
2,3,7,8-TCDF	--	--	--	--	--	< 0.696 U	< 0.567 U
1,2,3,7,8-PeCDF	--	--	--	--	--	< 0.965 U	< 0.584 U
2,3,4,7,8-PeCDF	--	--	--	--	--	< 0.986 U	< 0.618 U
1,2,3,4,7,8-HxCDF	--	--	--	--	--	< 0.507 U	< 0.630 U
1,2,3,6,7,8-HxCDF	--	--	--	--	--	< 0.521 U	< 0.661 U
1,2,3,7,8,9-HxCDF	--	--	--	--	--	< 0.793 U	< 1.05 U
2,3,4,6,7,8-HxCDF	--	--	--	--	--	< 0.64 U	< 0.781 U
1,2,3,4,6,7,8-HpCDF	--	--	--	--	--	<b>3.08 J</b>	< 1.01 U
1,2,3,4,7,8,9-HpCDF	--	--	--	--	--	< 0.864 U	< 0.830 U
OCDF	--	--	--	--	--	<b>5.42 J</b>	< 2.02 U
Total TCDD	--	--	--	--	--	< 0.869 U	< 0.949 U
Total PeCDD	--	--	--	--	--	< 1.34 U	< 0.513 U
Total HxCDD	--	--	--	--	--	<b>1.73 J</b>	< 2.47 U
Total HpCDD	--	--	--	--	--	<b>33.4</b>	8.35
Total TCDF	--	--	--	--	--	< 0.696 U	< 0.567 U
Total PeCDF	--	--	--	--	--	<b>1.43</b>	< 0.813 U
Total HxCDF	--	--	--	--	--	<b>0.768 J</b>	< 1.35 U
Total HpCDF	--	--	--	--	--	<b>6.40</b>	< 1.90 U
Dioxin/Furan TEQ, nd SDL*0	--	--	--	--	--	<b>0.222 J</b>	<b>0.0461 J</b>
Dioxin/Furan TEQ, nd SDL*0.5	--	--	--	--	--	<b>1.67 J</b>	<b>1.330013 J</b>
Dioxin/Furan TEQ, nd SDL*1	--	--	--	--	--	<b>3.12 J</b>	<b>2.61 J</b>
<b>PAHs (µg/L)</b>							
1-Methylnaphthalene	--	--	--	--	--	< 0.29 U	< 0.30 U
2-Chloronaphthalene	--	--	--	--	1,600	< 0.29 U	< 0.30 U
2-Methylnaphthalene	--	--	--	--	--	< 0.98 U	< 1.0 U
Acenaphthene	--	--	--	--	990	< 0.49 U	< 0.50 U
Acenaphthylene	--	--	--	--	--	< 0.39 U	< 0.40 U
Anthracene	--	--	--	110,000	40,000	< 0.20 U	< 0.20 U

**Table L-3. Water Sample Results  
Recology CleanScapes**

Analyte	Location ID					CS-SP-01	CS-TS-01
	Collection Date					9/3/2014	9/3/2014
	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	< 0.30 U
Benzo(a)pyrene	--	--	--	0.031	0.018	< 0.20 U	< 0.20 U
Benzo(b)fluoranthene	--	--	--	0.031	0.018	< 0.39 U	< 0.40 U
Benzo(g,h,i)perylene	--	--	--	--	--	< 0.29 U	< 0.30 U
Benzo(k)fluoranthene	--	--	--	0.031	0.018	< 0.29 U	< 0.30 U
Chrysene	--	--	--	0.031	0.018	< 0.20 U	< 0.20 U
Dibenz(a,h)anthracene	--	--	--	0.031	0.018	< 0.29 U	< 0.30 U
Dibenzofuran	--	--	--	--	--	< 2.0 U	< 2.0 U
Fluoranthene	--	--	--	370	140	< 0.24 U	< 0.25 U
Fluorene	--	--	--	14,000	5,300	< 0.29 U	< 0.30 U
Indeno(1,2,3-cd)pyrene	--	--	--	0.031	0.018	< 0.29 U	< 0.30 U
Naphthalene	--	--	--	--	--	< 2.0 U	< 2.0 U
Phenanthrene	--	--	--	--	--	< 0.39 U	< 0.40 U
Pyrene	--	--	--	11,000	4,000	< 0.29 U	< 0.30 U
Total Benzofluoranthenes	--	--	--	--	--	< 0.39 U	< 0.40 U
Total HPAHs	--	--	--	--	--	< 0.2 U	< 0.20 U
Total LPAHs	--	--	--	--	--	< 0.2 U	< 0.20 U
Total PAHs	--	--	--	--	--	< 0.2 U	< 0.20 U
cPAHs, nd RL*0	--	--	--	--	--	< 0 U	< 0 U
cPAHs, nd RL*0.5	--	--	--	--	--	< 0.18 U	< 0.18 U
cPAHs, nd RL*1	--	--	--	--	--	< 0.36 U	< 0.36 U
<b>Phthalates (µg/L)</b>							
bis(2-Ethylhexyl)phthalate	--	--	--	5.9	2.2	< 6.8 U	< 15 U
Butylbenzylphthalate	--	--	--	--	1,900	< 2.9 U	< 3.0 U
Di-n-Butylphthalate	--	--	--	12,000	4,500	< 2.0 U	< 0.85 U
Diethylphthalate	--	--	--	120,000	44,000	< 2.0 U	< 2.0 U
Dimethylphthalate	--	--	--	2,900,000	1,100,000	< 2.0 U	< 2.0 U
Di-n-Octyl phthalate	--	--	--	--	--	< 2.0 U	< 2.0 U
<b>Phenols (µg/L)</b>							
2,3,4,6-Tetrachlorophenol	--	--	--	--	--	na	na
2,4,5-Trichlorophenol	--	--	--	--	3,600	< 2.0 U	< 2.0 U
2,4,6-Trichlorophenol	--	--	--	6.5	2.4	< 2.9 U	< 3.0 U
2,4-Dichlorophenol	--	--	--	790	290	< 2.0 U	< 2.0 U
2,4-Dimethylphenol	--	--	--	--	850	< 9.8 U	< 10 U
2,4-Dinitrophenol	--	--	--	14,000	5,300	< 24 U	< 25 U
2-Chlorophenol	--	--	--	--	150	< 2.0 U	< 2.0 U
2-Methylphenol	--	--	--	--	--	< 2.0 U	< 2.0 U
2-Nitrophenol	--	--	--	--	--	< 2.0 U	< 2.0 U
4,6-Dinitro-2-Methylphenol	--	--	--	765	280	< 20 U	< 20 U
4-Chloro-3-methylphenol	--	--	--	--	--	< 2.0 U	< 2.0 U
4-Methylphenol	--	--	--	--	--	< 0.84 U	< 2.9 J
4-Nitrophenol	--	--	--	--	--	< 15 U	< 15 U
Pentachlorophenol	--	7.9	13	8.2	3.0	< 3.4 U	< 3.5 U
Phenol	--	--	--	4,600,000	860,000	< 1.1 U	< 1.6 U
<b>Other SVOCs (µg/L)</b>							
1,2,4-Trichlorobenzene	--	--	--	--	70	< 2.0 U	< 2.0 U
1,2-Dichlorobenzene	--	--	--	17,000	1,300	< 2.0 U	< 2.0 U
1,3-Dichlorobenzene	--	--	--	2,600	960	< 2.0 U	< 2.0 U
1,4-Dichlorobenzene	--	--	--	2,600	190	< 2.0 U	< 2.0 U
2,4-Dinitrotoluene	--	--	--	9.1	3.4	< 2.0 U	< 2.0 U
2,6-Dinitrotoluene	--	--	--	--	--	< 2.0 U	< 2.0 U
2-Nitroaniline	--	--	--	--	--	< 2.0 U	< 2.0 U
3,3'-Dichlorobenzidine	--	--	--	0.077	0.028	< 9.8 U	< 10 U
3-Nitroaniline	--	--	--	--	--	< 2.0 U	< 2.0 U
4-Bromophenyl-phenylether	--	--	--	--	--	< 2.0 U	< 2.0 U
4-Chloroaniline	--	--	--	--	--	< 2.0 UJ	< 2.0 UJ
4-Chlorophenyl-phenylether	--	--	--	--	--	< 2.0 U	< 2.0 U



**Table L-3. Water Sample Results  
Recology CleanScapes**

Analyte	Location ID				CS-SP-01		CS-TS-01	
	Collection Date				9/3/2014		9/3/2014	
	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	Result	Result
		Marine		HHO	HHO			
	Chronic	Acute						
4-Nitroaniline	--	--	--	--	--	< 2.9 U	< 3.0 U	U
Benzoic Acid	--	--	--	--	--	< 11 U	< 9.5 U	U
Benzyl Alcohol	--	--	--	--	--	< 2.2 U	< 4.5 U	U
2,2'-Oxybis(1-Chloropropane)	--	--	--	170,000	65,000	< 2.0 U	< 2.0 U	U
bis(2-Chloroethoxy) Methane	--	--	--	--	--	< 2.0 U	< 2.0 U	U
Bis-(2-Chloroethyl) Ether	--	--	--	1.4	0.53	< 2.0 U	< 2.0 U	U
Carbazole	--	--	--	--	--	< 2.0 U	< 2.0 U	U
Hexachlorobenzene	--	--	--	0.00077	0.00029	< 2.0 U	< 2.0 U	U
Hexachlorobutadiene	--	--	--	50	18	< 2.9 U	< 3.0 U	U
Hexachlorocyclopentadiene	--	--	--	17,000	1,100	< 9.8 U	< 10 U	U
Hexachloroethane	--	--	--	8.9	3.3	< 2.9 U	< 3.0 U	U
Isophorone	--	--	--	600	960	< 2.0 U	< 2.0 U	U
Nitrobenzene	--	--	--	1,900	690	< 2.0 U	< 2.0 U	U
N-Nitrosodimethylamine	--	--	--	8.1	3.0	< 9.8 U	< 10 U	U
N-Nitroso-Di-N-Propylamine	--	--	--	--	0.51	< 2.0 U	< 2.0 U	U
N-Nitrosodiphenylamine	--	--	--	16	6.0	< 2.0 U	< 2.0 U	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 L-4. Water Sample Results Compared to Criteria  
Recology CleanScapes**

Location ID	CS-SP-01					CS-TS-01				
Collection Date	9/3/2014					9/3/2014				
Analyte	Exceedance Factor					Exceedance Factor				
	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms	NPDES ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms
<b>Total Metals</b>										
Copper	2.1	7.8	5.0			1.8	6.7	4.3		
Mercury		3.5					2.4			
Zinc	1.7	2.3	2.1			2.1	2.8	2.5		
<b>PCB Congeners</b>										
Total PCB Congeners				94	248				23	62

Exceedance Factors (EFs) are presented for detected concentrations only. Only chemicals with EF > 1 are shown.

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

**Table L-5. Water Sample Results - PCB Congeners  
Recology CleanScapes**

Location ID	CS-SP-01	CS-TS-01
Collection Date	9/3/2014	9/3/2014
Analyte	Result	Result
Total PCB Congeners (µg/L)	0.0159 J	0.00398 J
Total PCB Congeners (pg/L)	15,900 J	3,980 J
<b>Total Mono-CB (pg/L)</b>	<b>&lt; 6.75 U</b>	<b>&lt; 11.4 U</b>
PCB-1	< 5.50 U*	< 11.4 U
PCB-2	< 1.75 U	< 2.11 U
PCB-3	< 6.75 U	< 3.96 U
<b>Total Di-CB (pg/L)</b>	<b>310 J</b>	<b>260 J</b>
PCB-4/10	< 5.64 U	37.3
PCB-5/8	114 J	83.8
PCB-6	< 3.10 U	16.4
PCB-7/9	< 6.22 U	6.97 J
PCB-11	107	70.2
PCB-12/13	< 5.01 U	5.71 J
PCB-14	< 3.98 U	< 3.47 U
PCB-15	89.2 J	39.9
<b>Total Tri-CB (pg/L)</b>	<b>1,150 J</b>	<b>506 J</b>
PCB-16/32	115	58.6
PCB-17	62.5	31.1
PCB-18	168	87.2
PCB-19	15.9 J	10.0
PCB-20/21/33	153	67.6
PCB-22	93.4	37.2
PCB-23	< 1.35 U	< 0.555 U
PCB-24/27	18.0 J	7.43 J
PCB-25	17.5 J	6.95
PCB-26	33.4 J	15.6
PCB-28	179	72.3
PCB-29	< 1.60 U	< 0.548 U
PCB-30	< 2.09 U	< 0.463 U
PCB-31	160	68.7
PCB-34	< 2.34 U	< 0.577 U
PCB-35	10.1 J	3.73 J
PCB-36	< 2.69 U	< 0.648 U
PCB-37	119	39.7
PCB-38	< 1.56 U	< 0.659 U
PCB-39	< 2.60 U	< 0.628 U
<b>Total Tetra-CB (pg/L)</b>	<b>1,990 J</b>	<b>503 J</b>
PCB-40	51.3	16.6
PCB-41/64/71/72	226	63.9
PCB-42/59	81.6 J	24.7
PCB-43/49	147	45.5
PCB-44	232	66.4
PCB-45	37.5 J	13.8
PCB-46	19.1 J	5.68
PCB-47	58.8	< 16.9 U
PCB-48/75	< 40.0 U*	13.8
PCB-50	< 1.40 U	< 0.998 U
PCB-51	15.6 J	3.58 J
PCB-52/69	248	< 68.7 U
PCB-53	27.9 J	10.5
PCB-54	< 1.51 U	< 0.806 U
PCB-55	< 1.19 U	2.03 J

**Table L-5. Water Sample Results - PCB Congeners  
Recology CleanScapes**

Location ID	CS-SP-01	CS-TS-01
Collection Date	9/3/2014	9/3/2014
Analyte	Result	Result
PCB-56/60	168	48.5
PCB-57	< 0.857 U	< 0.857 U
PCB-58	< 1.81 U	< 1.02 U
PCB-61/70	309	82.9
PCB-62	< 1.46 U	< 0.976 U
PCB-63	< 0.696 U	2.51 J
PCB-65	< 0.953 U	< 0.945 U
PCB-67	< 1.22 U	2.49 J
PCB-68	< 1.24 U	1.30 J
PCB-73	< 1.56 U	< 0.940 U
PCB-74	97.5	26.6
PCB-76/66	208	56.2
PCB-77	61.3	13.8
PCB-78	< 0.990 U	< 0.990 U
PCB-79	< 1.60 U	1.75 J
PCB-80	< 1.98 U	< 0.879 U
PCB-81	< 2.34 U	0.666 J
<b>Total Penta-CB (pg/L)</b>	<b>3,600 J</b>	<b>824 J</b>
PCB-82	98.0	< 16.9 U*
PCB-83	< 1.32 U	< 1.32 U
PCB-84/92	223	56.7
PCB-85/116	87.6 J	20.2
PCB-86	< 2.34 U	< 2.34 U
PCB-87/117/125	214	47.0
PCB-88/91	< 53.3 U*	14.2
PCB-89	< 1.84 U	< 1.84 U
PCB-90/101	557	142
PCB-93	< 1.47 U	< 1.47 U
PCB-94	< 1.91 U	< 1.91 U
PCB-95/98/102	358	93.1
PCB-96	< 2.16 U	< 2.16 U
PCB-97	167	37.1
PCB-99	211	47.7
PCB-100	< 2.03 U	< 2.03 U
PCB-103	< 2.28 U	< 2.28 U
PCB-104	< 0.931 U	< 0.931 U
PCB-105	249	57.4
PCB-106/118	600	130
PCB-107/109	45.7 J	11.0
PCB-108/112	34.0 J	6.84 J
PCB-110	708	148
PCB-111/115	< 0.768 U	< 2.19 U*
PCB-113	< 1.31 U	2.75 J
PCB-114	13.6 J	< 1.81 U
PCB-119	17.7 J	2.84 J
PCB-120	< 1.01 U	< 1.18 U*
PCB-121	< 1.94 U	< 1.89 U
PCB-122	< 1.84 U	< 1.84 U
PCB-123	< 1.35 U	< 1.91 U*
PCB-124	< 1.79 U	7.24
PCB-126	18.5 J	< 3.87 U*
PCB-127	< 0.808 U	< 0.808 U

**Table L-5. Water Sample Results - PCB Congeners  
Recology CleanScapes**

Location ID	CS-SP-01	CS-TS-01
Collection Date	9/3/2014	9/3/2014
Analyte	Result	Result
<b>Total Hexa-CB (pg/L)</b>	4,770 J	1,000 J
PCB-128/162	153	33.0
PCB-129	50.7	9.43
PCB-130	81.6	15.9
PCB-131	< 1.46 U	< 1.46 U
PCB-132/161	300	63.2
PCB-133/142	40.1 J	< 5.75 U*
PCB-134/143	60.8 J	11.8
PCB-135	99.6	26.8
PCB-136	108	25.2
PCB-137	35.3 J	< 5.69 U*
PCB-138/163/164	1,220	250
PCB-139/149	666	157
PCB-140	< 3.52 U	< 3.52 U
PCB-141	231	51.5
PCB-144	< 3.22 U	8.37
PCB-145	< 1.73 U	< 1.73 U
PCB-146/165	190	37.4
PCB-147	< 3.62 U	< 3.62 U
PCB-148	< 1.68 U	< 1.68 U
PCB-150	< 1.14 U	< 1.14 U
PCB-151	200	46.3
PCB-152	< 1.82 U	< 1.82 U
PCB-153	1,050	217
PCB-154	< 2.78 U	4.09 J
PCB-155	< 1.45 U	< 1.45 U
PCB-156	110	< 18.9 U
PCB-157	< 27.1 U*	5.20 J
PCB-158/160	125	27.2
PCB-159	< 1.20 U	< 1.20 U
PCB-166	< 0.920 U	< 0.920 U
PCB-167	51.9	11.2
PCB-168	< 0.933 U	< 0.933 U
PCB-169	< 1.12 U	< 1.12 U
<b>Total Hepta-CB (pg/L)</b>	3,150 J	656 J
PCB-170	384	86.6
PCB-171	135	< 22.4 U*
PCB-172	88.5	16.7
PCB-173	< 1.49 U	< 1.49 U
PCB-174	406	91.0
PCB-175	< 19.3 U*	< 2.01 U*
PCB-176	< 42.3 U*	8.22
PCB-177	275	58.3
PCB-178	88.2	14.1
PCB-179	151	27.2
PCB-180	859	193
PCB-181	< 1.01 U	< 1.01 U
PCB-182/187	461	84.4
PCB-183	213	36.3
PCB-184	< 1.25 U	< 1.22 U
PCB-185	38.4 J	10.2
PCB-186	< 2.43 U	< 1.19 U

**Table L-5. Water Sample Results - PCB Congeners  
Recology CleanScapes**

Location ID	CS-SP-01	CS-TS-01
Collection Date	9/3/2014	9/3/2014
Analyte	Result	Result
PCB-188	< 1.08 U	< 1.08 U
PCB-189	< 1.49 U	< 2.41 U*
PCB-190	< 65.5 U*	15.5
PCB-191	< 1.96 U	3.52 J
PCB-192	< 1.69 U	< 1.69 U
PCB-193	52.0	10.9
<b>Total Octa-CB (pg/L)</b>	744	197 J
PCB-194	196	41.1
PCB-195	74.5	18.6
PCB-196/203	233	57.8
PCB-197	< 1.80 U	< 1.80 U
PCB-198	< 3.78 U	< 3.78 U
PCB-199	240	51.1
PCB-200	< 1.75 U	5.82
PCB-201	< 1.02 U	8.51
PCB-202	< 1.55 U	11.4
PCB-204	< 1.48 U	< 1.48 U
PCB-205	< 1.53 U	2.74 J
<b>Total Nona-CB (pg/L)</b>	149 J	27.9 J
PCB-206	115	18.8
PCB-207	< 19.4 U*	2.87 J
PCB-208	33.5 J	6.21
<b>Deca-CB (pg/L)</b>	60.1	< 6.18 U
PCB-209	60.1	< 6.18 U*
PCB TEQ, nd SDL*0	1.89 J	0.00769 J
PCB TEQ, nd SDL*0.5	1.90 J	0.218 J
PCB TEQ, nd SDL*1	1.92 J	0.429 J

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

**Table L-6. Water Sample Results - Conventionals  
Recology CleanScapes**

	Location ID		CS-SP-01	CS-TS-01
	Collection		9/3/2014	9/3/2014
Analyte	ISGP Benchmark	Units	Result	Result
<b>Conventionals</b>				
Alkalinity	--	mg/L	29	25
Bicarbonate	--	mg/L CaCO <sub>3</sub>	29	25
Carbonate	--	mg/L CaCO <sub>3</sub>	< 5 U	< 5 U
Chloride	--	mg/L	6.2	7
Specific Conductance	--	µmhos/cm	120	130
Hydroxide	--	mg/L CaCO <sub>3</sub>	na	na
Nitrate	--	mg/L	< 0.9 U	< 0.9 U
pH	5-9	std units	6.26	6.03
Salinity	--	mg/L	na	na
Sulfate	--	mg/L	12	15
Dissolved Organic Carbon	--	mg/L	na	na
Total Organic Carbon	--	mg/L	48	44
Total Suspended Solids <sup>a</sup>	30	mg/L	280	7
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 L-7. Solids Sample Results  
Recology CleanScapes**

				Location ID	CS-CB-01	
				Collection Date	9/3/2014	
Analyte	SMS Criteria		Unit	Result		
	SCO/ LAET <sup>a</sup>	CSL/ 2LAET				
<b>Metals (Total) (mg/kg)</b>						
Antimony	--	--	mg/kg	<b>4</b>		
Arsenic	57	93	mg/kg	<b>8.6</b>		
Beryllium	--	--	mg/kg	<b>0.24 J</b>		
Cadmium	5.1	6.7	mg/kg	<b>2.3</b>		
Chromium	260	270	mg/kg	<b>63</b>		
Copper	390	390	mg/kg	<b>140</b>		
Lead	450	530	mg/kg	<b>170</b>		
Mercury	0.41	0.59	mg/kg	<b>0.18</b>		
Nickel	--	--	mg/kg	<b>43</b>		
Selenium	--	--	mg/kg	<b>0.81 J</b>		
Silver	6.1	6.1	mg/kg	<b>0.38 J</b>		
Thallium	--	--	mg/kg	<	1.2	U
Zinc	410	960	mg/kg	<b>1,100</b>		
<b>PCB Aroclors (µg/kg)</b>						
Aroclor 1016	--	--	µg/kg	<	22	U
Aroclor 1221	--	--	µg/kg	<	25	U
Aroclor 1232	--	--	µg/kg	<	25	U
Aroclor 1242	--	--	µg/kg	<	22	U
Aroclor 1248	--	--	µg/kg	<	22	U
Aroclor 1254	--	--	µg/kg	<	22	U
Aroclor 1260	--	--	µg/kg	<b>51</b>		<b>J</b>
Total PCB Aroclors	130	1,000	µg/kg	<b>51</b>		<b>J</b>
<b>PCB Congeners (ug/kg) <sup>b</sup></b>						
Total PCB Congeners	130	1,000	µg/kg	<b>491</b>		<b>J</b>
PCB TEQ, nd SDL*0	--	--	µg/kg	<b>0.0219</b>		
PCB TEQ, nd SDL*0.5	--	--	µg/kg	<b>0.0219</b>		
PCB TEQ, nd SDL*1	--	--	µg/kg	<b>0.0219</b>		
<b>Dioxins and Furans (ng/kg)</b>						
2,3,7,8-TCDD	--	--	ng/kg	<	0.693	U*
1,2,3,7,8-PeCDD	--	--	ng/kg	<b>3.36</b>		<b>J</b>
1,2,3,4,7,8-HxCDD	--	--	ng/kg	<b>5.45</b>		
1,2,3,6,7,8-HxCDD	--	--	ng/kg	<b>16.3</b>		
1,2,3,7,8,9-HxCDD	--	--	ng/kg	<b>11.4</b>		
1,2,3,4,6,7,8-HpCDD	--	--	ng/kg	<b>364</b>		
OCDD	--	--	ng/kg	<b>3,130</b>		
2,3,7,8-TCDF	--	--	ng/kg	<b>3.42</b>		
1,2,3,7,8-PeCDF	--	--	ng/kg	<b>2.79</b>		<b>J</b>
2,3,4,7,8-PeCDF	--	--	ng/kg	<b>4.49</b>		<b>J</b>
1,2,3,4,7,8-HxCDF	--	--	ng/kg	<b>6.45</b>		
1,2,3,6,7,8-HxCDF	--	--	ng/kg	<b>5.53</b>		
1,2,3,7,8,9-HxCDF	--	--	ng/kg	<b>1.26</b>		<b>J</b>
2,3,4,6,7,8-HxCDF	--	--	ng/kg	<b>7.08</b>		
1,2,3,4,6,7,8-HpCDF	--	--	ng/kg	<b>77.1</b>		
1,2,3,4,7,8,9-HpCDF	--	--	ng/kg	<b>6.06</b>		
OCDF	--	--	ng/kg	<b>144</b>		
Dioxin/Furan TEQ, nd SDL*0	25	--	ng/kg	<b>15.9</b>		<b>J</b>
Dioxin/Furan TEQ, nd SDL*0.5	25	--	ng/kg	<b>16.2</b>		<b>J</b>
Dioxin/Furan TEQ, nd SDL*1	25	--	ng/kg	<b>16.6</b>		<b>J</b>



**Table L-7. Solids Sample Results  
Recology CleanScapes**

				Location ID	CS-CB-01	
				Collection Date	9/3/2014	
Analyte	SMS Criteria		Unit	Result		
	SCO/ LAET <sup>a</sup>	CSL/ 2LAET				
Total TCDD	--	--	ng/kg	14.6	J	
Total TCDF	--	--	ng/kg	76.1		
Total PeCDD	--	--	ng/kg	35.7		
Total PeCDF	--	--	ng/kg	87.1	J	
Total HxCDD	--	--	ng/kg	136		
Total HxCDF	--	--	ng/kg	108		
Total HpCDD	--	--	ng/kg	708		
Total HpCDF	--	--	ng/kg	171		
<b>PAHs (µg/kg)</b>						
1-Methylnaphthalene	--	--	µg/kg	35	J	
2-Chloronaphthalene	--	--	µg/kg	< 94	U	
2-Methylnaphthalene	670	1,400	µg/kg	49	J	
Acenaphthene	500	730	µg/kg	< 94	U	
Acenaphthylene	1,300	1,300	µg/kg	< 94	U	
Anthracene	960	4,400	µg/kg	< 94	U	
Benzo(a)anthracene	1,300	1,600	µg/kg	< 94	U	
Benzo(a)pyrene	1,600	3,000	µg/kg	< 140	U	
Benzo(g,h,i)perylene	670	720	µg/kg	< 120	U	
Chrysene	1,400	2,800	µg/kg	< 120	U	
Dibenz(a,h)anthracene	230	540	µg/kg	< 190	U	
Dibenzofuran	540	700	µg/kg	< 470	U	
Fluoranthene	1,700	2,500	µg/kg	220		
Fluorene	540	1,000	µg/kg	94		
Indeno(1,2,3-cd)pyrene	600	690	µg/kg	< 190	U	
Naphthalene	2,100	2,400	µg/kg	39	J	
Phenanthrene	1,500	5,400	µg/kg	240		
Pyrene	2,600	3,300	µg/kg	420		
Total Benzofluoranthenes	3,200	3,600	µg/kg	< 210	U	
Total HPAHs	12,000	17,000	µg/kg	640		
Total LPAHs	5,200	13,000	µg/kg	370		
cPAHs, nd RL*0	1,000	--	µg/kg	< 0.00	U	
cPAHs, nd RL*0.5	1,000	--	µg/kg	< 110	U	
cPAHs, nd RL*1	1,000	--	µg/kg	< 210	U	
<b>Phthalates (µg/kg)</b>						
bis(2-Ethylhexyl)phthalate	1,300	1,900	µg/kg	32,000		
Butylbenzylphthalate	63	900	µg/kg	1,400		
Di-n-Butylphthalate	1,400	5,100	µg/kg	410	J	
Diethylphthalate	200	1,200	µg/kg	170	J	
Dimethylphthalate	71	160	µg/kg	< 470	U	
Di-n-Octyl phthalate	6,200	--	µg/kg	< 2400	U	
<b>Phenols (µg/kg)</b>						
2,4,5-Trichlorophenol	--	--	µg/kg	< 470	U	
2,4,6-Trichlorophenol	--	--	µg/kg	< 710	U	
2,4-Dichlorophenol	--	--	µg/kg	< 470	U	
2,4-Dimethylphenol	29	29	µg/kg	< 470	U	
2,4-Dinitrophenol	--	--	µg/kg	< 4,700	U	
2-Chlorophenol	--	--	µg/kg	< 470	U	
2-Methylphenol	63	63	µg/kg	< 470	U	
2-Nitrophenol	--	--	µg/kg	< 470	U	

**Table L-7. Solids Sample Results  
Recology CleanScapes**

				Location ID	CS-CB-01
				Collection Date	9/3/2014
Analyte	SMS Criteria		Unit	Result	
	SCO/ LAET <sup>a</sup>	CSL/ 2LAET			
4,6-Dinitro-2-Methylphenol	--	--	µg/kg	< 4,700	U
4-Chloro-3-methylphenol	--	--	µg/kg	< 470	U
4-Methylphenol	670	670	µg/kg	<b>460</b>	<b>J</b>
4-Nitrophenol	--	--	µg/kg	< 4,700	U
Pentachlorophenol	360	690	µg/kg	< 940	U
Phenol	420	1,200	µg/kg	< 470	U
<b>Other SVOCs (µg/kg)</b>					
1,2,4-Trichlorobenzene	31	51	µg/kg	< 240	U
1,2-Dichlorobenzene	35	50	µg/kg	< 260	U
1,3-Dichlorobenzene	--	--	µg/kg	< 240	U
1,4-Dichlorobenzene	110	120	µg/kg	< 240	U
2,4-Dinitrotoluene	--	--	µg/kg	< 470	U
2,6-Dinitrotoluene	--	--	µg/kg	< 470	U
2-Nitroaniline	--	--	µg/kg	< 470	U
3,3'-Dichlorobenzidine	--	--	µg/kg	< 940	U
3-Nitroaniline	--	--	µg/kg	< 470	U
4-Bromophenyl-phenylether	--	--	µg/kg	< 470	U
4-Chloroaniline	--	--	µg/kg	< 470	U
4-Chlorophenyl-phenylether	--	--	µg/kg	< 470	U
4-Nitroaniline	--	--	µg/kg	< 470	U
Benzoic Acid	650	650	µg/kg	< 12,000	U
Benzyl Alcohol	57	73	µg/kg	< 470	U
2,2'-Oxybis(1-Chloropropane)	--	--	µg/kg	< 1,200	U
bis(2-Chloroethoxy) Methane	--	--	µg/kg	< 470	U
Bis-(2-Chloroethyl) Ether	--	--	µg/kg	< 470	U
Carbazole	--	--	µg/kg	< 470	U
Hexachlorobenzene	22	70	µg/kg	< 240	U
Hexachlorobutadiene	11	120	µg/kg	< 240	U
Hexachlorocyclopentadiene	--	--	µg/kg	< 470	U
Hexachloroethane	--	--	µg/kg	< 470	U
Isophorone	--	--	µg/kg	< 470	U
Nitrobenzene	--	--	µg/kg	< 470	U
N-Nitrosodimethylamine	--	--	µg/kg	< 4,700	U
N-Nitroso-Di-N-Propylamine	--	--	µg/kg	< 470	U
N-Nitrosodiphenylamine	28	40	µg/kg	< 240	U
<b>TPH (mg/kg)</b>					
Diesel-Range Hydrocarbons	2,000	--	mg/kg	<b>6,800</b>	<b>J</b>
Motor Oil-Range Hydrocarbons	2,000	--	mg/kg	<b>45,000</b>	
<b>Grain size (%)</b>					
Clay	--	--	%	5.6	
Silt	--	--	%	30	
Sand	--	--	%	63	
Gravel	--	--	%	1.6	
Cobbles	--	--	%	0.0	
<b>Conventionals (%)</b>					
Total Organic Carbon	--	--	%	14	J
Total Solids	--	--	%	41.9	

**Table L-7. Solids Sample Results  
Recology CleanScapes**

				Location ID	CS-CB-01
				Collection Date	9/3/2014
Analyte	SMS Criteria		Unit	Result	
	SCO/ LAET <sup>a</sup>	CSL/ 2LAET			

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.

Results **shaded in gray** exceed one or more criteria.

**Table L-8. Solids Sample Results Compared to Dry Weight Criteria  
NPDES Inspection Sampling Support**

Location ID	CS-CB-01	
Collection Date	9/3/2014	
Analyte	Exceedance Factor	
	SCO/ LAET	CSL/ 2LAET
<b>Metals (Total)</b>		
Zinc	2.7	1.1
<b>PCBs</b>		
Total PCB Congeners	3.8	
<b>Phthalates</b>		
bis(2-Ethylhexyl)phthalate	25	17
Butylbenzylphthalate	22	1.6
<b>TPH</b>		
Diesel-Range Hydrocarbons	3.4	
Motor Oil-Range Hydrocarbons	23	

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 L-9. Solids Sample Results - PCB Congeners  
Recology CleanScapes**

<b>Location ID</b>	<b>CS-CB-01</b>
<b>Collection Date</b>	<b>9/3/2014</b>
<b>Analyte</b>	<b>Result</b>
Total PCB Congeners (ng/kg) <sup>a</sup>	491,000 J
<b>Total Monochlorobiphenyl (ng/kg)<sup>a</sup></b>	408 J
PCB-1	184
PCB-2	69.0 J
PCB-3	155 J
<b>Total Dichlorobiphenyl (ng/kg)<sup>a</sup></b>	13,500 J
PCB-4/10	1,130
PCB-5/8	4,760
PCB-6	865
PCB-7/9	509 J
PCB-11	3,430
PCB-12/13	< 1.37 U
PCB-14	< 0.337 U
PCB-15	2,840
<b>Total Trichlorobiphenyl (ng/kg)<sup>a</sup></b>	44,500 J
PCB-16/32	4,040
PCB-17	2,070
PCB-18	6,100
PCB-19	562
PCB-20/21/33	7,590
PCB-22	3,830
PCB-23	< 0.543 U
PCB-24/27	415
PCB-25	713
PCB-26	1,640
PCB-28	6,030
PCB-29	110 J
PCB-30	< 0.355 U
PCB-31	7,830
PCB-34	< 1.57 U
PCB-35	246
PCB-36	< 0.406 U
PCB-37	3,320
PCB-38	49.4 J
PCB-39	< 0.461 U
<b>Total Tetrachlorobiphenyl (ng/kg)<sup>a</sup></b>	62,600 J
PCB-40	1,740
PCB-41/64/71/72	7,390
PCB-42/59	2,660
PCB-43/49	5,360
PCB-44	7,720
PCB-45	1,370
PCB-46	583
PCB-47	1,970
PCB-48/75	1,640
PCB-50	< 0.603 U
PCB-51	383
PCB-52/69	7,670
PCB-53	1,070
PCB-54	< 0.275 U
PCB-55	212
PCB-56/60	4,180

**Table L-9. Solids Sample Results - PCB Congeners  
Recology CleanScapes**

Location ID	CS-CB-01
Collection Date	9/3/2014
Analyte	Result
PCB-57	58.2 J
PCB-58	< 0.589 U
PCB-61/70	9,140
PCB-62	< 0.597 U
PCB-63	< 245 U*
PCB-65	< 0.842 U
PCB-67	< 242 U*
PCB-68	53.5 J
PCB-73	< 0.454 U
PCB-74	2,600
PCB-76/66	5,590
PCB-77	1,040
PCB-78	< 0.385 U
PCB-79	153 J
PCB-80	< 0.336 U
PCB-81	64.5 J
<b>Total Pentachlorobiphenyl (ng/kg)<sup>a</sup></b>	<b>103,000 J</b>
PCB-82	1,760
PCB-83	< 0.440 U
PCB-84/92	6,560
PCB-85/116	2,270
PCB-86	< 1.79 U
PCB-87/117/125	5,810
PCB-88/91	1,600
PCB-89	132 J
PCB-90/101	19,700
PCB-93	< 1.42 U
PCB-94	< 0.874 U
PCB-95/98/102	13,200
PCB-96	114 J
PCB-97	4,490
PCB-99	4,890
PCB-100	< 0.511 U
PCB-103	184
PCB-104	< 0.876 U
PCB-105	5,360
PCB-106/118	14,600
PCB-107/109	963
PCB-108/112	623
PCB-110	18,200
PCB-111/115	252 J
PCB-113	108 J
PCB-114	341
PCB-119	304
PCB-120	98.8 J
PCB-121	< 0.978 U
PCB-122	173
PCB-123	201
PCB-124	677
PCB-126	210
PCB-127	< 0.326 U

**Table L-9. Solids Sample Results - PCB Congeners  
Recology CleanScapes**

Location ID	CS-CB-01
Collection Date	9/3/2014
Analyte	Result
<b>Total Hexachlorobiphenyl (ng/kg)<sup>a</sup></b>	138,000 J
PCB-128/162	3,760
PCB-129	1,240
PCB-130	1,560
PCB-131	< 0.731 U
PCB-132/161	8,200
PCB-133/142	899
PCB-134/143	1,610
PCB-135	3,830
PCB-136	3,580
PCB-137	< 989 U*
PCB-138/163/164	29,700
PCB-139/149	25,700
PCB-140	< 117 U*
PCB-141	6,960
PCB-144	1,420
PCB-145	< 1.05 U
PCB-146/165	4,290
PCB-147	< 174 U*
PCB-148	< 1.45 U
PCB-150	< 0.801 U
PCB-151	8,020
PCB-152	< 0.744 U
PCB-153	29,100
PCB-154	387
PCB-155	< 0.767 U
PCB-156	3,130
PCB-157	583
PCB-158/160	3,220
PCB-159	< 0.578 U
PCB-166	< 0.425 U
PCB-167	1,250
PCB-168	< 0.502 U
PCB-169	< 0.767 U
<b>Total Heptachlorobiphenyl (ng/kg)<sup>a</sup></b>	99,000
PCB-170	10,500
PCB-171	3,140
PCB-172	1,800
PCB-173	325
PCB-174	12,800
PCB-175	426
PCB-176	1,490
PCB-177	7,780
PCB-178	2,280
PCB-179	5,220
PCB-180	29,800
PCB-181	< 1.26 U
PCB-182/187	12,400
PCB-183	6,250
PCB-184	< 0.597 U
PCB-185	1,200
PCB-186	< 0.421 U

**Table L-9. Solids Sample Results - PCB Congeners  
Recology CleanScapes**



Location ID	CS-CB-01
Collection Date	9/3/2014
Analyte	Result
PCB-188	< 0.759 U
PCB-189	< 0.483 U
PCB-190	1,740
PCB-191	517
PCB-192	< 0.528 U
PCB-193	1,290
<b>Total Octachlorobiphenyl (ng/kg)<sup>a</sup></b>	<b>20,700</b>
PCB-194	4,730
PCB-195	2,070
PCB-196/203	5,530
PCB-197	266
PCB-198	429
PCB-199	4,850
PCB-200	671
PCB-201	786
PCB-202	1,320
PCB-204	< 0.543 U
PCB-205	< 0.471 U
<b>Total Nonachlorobiphenyl (ng/kg)<sup>a</sup></b>	<b>6,270</b>
PCB-206	4,270
PCB-207	503
PCB-208	1,500
<b>Decachlorobiphenyl (ng/kg)</b>	<b>2,700</b>
PCB-209	2,700
PCB TEQ, nd SDL*0	21.9
PCB TEQ, nd SDL*0.5	21.9
PCB TEQ, nd SDL*1	21.9



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 L-1**  
**Inspection Photographic Log**

Conveyance Structure Information	
<b>Structure Identification Number:</b> CS-SP-01/MH-3/Sump D	N↑
<b>Structure Type:</b> Sump Pump	
<b>General Location:</b> Northwest portion of facility	
<b>Characteristics:</b> Sump with a dividing weir	
<b>Pump Capacity (gpm):</b> --	
<b>Design Storm:</b> --	
<b>Access:</b> Catch basin grate	
<b>Volume Gauge:</b> --	
<b>Sample ID:</b> CS-SP-01-20140903-W	
Drainage Information:	
<p>Sump D receives stormwater from Sump A and drainage in the recycle bin container area. The facility stores cleaned 55-gallon recycling/garbage bins in this area. Stormwater enters the sump from the south and east and is pumped north to the stormwater treatment system. Following treatment, stormwater is conveyed back to the downstream side of the sump and discharged to the LDW via Outfall D. In the event that a storm exceeds system capacity, stormwater overflows the weir at sump D and discharges directly to the LDW.</p>	NR
	

Conveyance Structure Information	
<b>Structure Identification Number:</b> CS-CB-01	N↑ 
<b>Structure Type:</b> Catch Basin	
<b>General Location:</b> North Yard/Drainage Basin	
<b>Characteristics:</b> Catch Basin Elbow, 5.5' deep, 2' of water, and 6" of sediment	
<b>Pump Capacity (gpm):</b> --	
<b>Design Storm:</b> --	
<b>Access:</b> Catch Basin Grate	
<b>Volume Gauge:</b> --	
<b>Sample ID:</b> CS-CB-01-20140903-S	
Drainage Information:	
Catch Basin CB-01 is located in the North Yard/Drainage Basin A and receives stormwater from the truck parking area. The solids sample CS-CB-01-20140903-S was collected from CB-01. Stormwater is conveyed from CB-01 to Sump A.	NR 



Conveyance Structure Information	
<b>Structure Identification Number:</b> North Yard Advanced Treatment System/CS-TS-01	<p><b>N</b> →</p> 
<b>Structure Type:</b> Advanced Treatment System (ATS)	
<b>General Location:</b> Northwest Corner of Facility	
<b>Characteristics:</b> Settling, filtration, pH adjustment	
<b>Pump Capacity (gpm):</b> ~165	
<b>Design Storm:</b> Not available	
<b>Access:</b> Open lot/Sample Port	
<b>Volume Gauge:</b> Yes	
<b>Sample ID:</b> CS-TS-01-20140903-W	
Drainage Information	
<p>The North Yard Advanced Treatment System (ATS) receives stormwater from the North Yard at Cleanscapes. Stormwater is collected via catch basins and pumped from Sumps A and D to the treatment system. The stormwater is mixed with 1% Chitosan Acetate Polymer and conveyed to a pre-treatment stormwater tank. Stormwater is conveyed to the sand filters to settle particulates. Prior to discharge from the treatment system, stormwater is monitored for pH and turbidity. If stormwater exceeds pH or turbidity parameters, it is recirculated through the system. Following treatment, stormwater is conveyed to the downstream side of the sump and discharged to the LDW via Outfall D.</p>	<p><b>N</b> ↗</p> 

**Attachment L-2**  
**Field Documentation**

CONTENTS

PAGE	REFERENCE	DATE

Location Field Office / Cleanscapes Date 9/5/14

Project / Client NPDES / Ecology

- 0555 C. Wilson arrive at Leidos Field Office
- 0600 M. Ivancevich arrives at FO  
 Prep sample containers for Rinse Blanks  
 Use Tap water to pour over  
 sampling equipment
- 0630 Collect sample QC-EB-01-20140903-w  
 to be sent to Vista Analytical  
 totalling 3 Liters
- 0650 Collected sample QC-EB-01-20140903-w  
 to be sent to Test America w 9/3/14  
 9 Sample containers for Seds  
 15 Sample containers for Sds
- 0715 Organized gear and loaded van
- 0727 Received phone call from Mahbub Alam  
 and discussed meeting spot for sampling  
 activities
- 0742 C. Noncaron arrives at field office  
 Leidos field team discuss plan  
 for meeting ECH at Cleanscapes
- 0810 Leidos departs field office
- 0830 Leidos, Mahbub Alam, and Bob Wright  
 arrive on site at Cleanscapes
- 0840 MA, DW, + CN meeting w/ Cleanscapes  
 personnel

Location CleanscapesDate 9/7/14Project / Client NPDES / Ecology

- 0850 C. Wilson conducted H<sup>2</sup>S w/ Leidos  
+ ECV  
Met w/ Cleanscapes Representative  
Jim Quist H<sup>2</sup>S Coordinator
- 0905 Sound Earth Consultants on site  
Dan Lipinski  
Nate Holloway  
Ecology ran through sampling operations  
w/ Sound Earth
- 0910 Leidos completed inspection at  
Sump A. No solids on upstream  
side of weir observed effluent  
side but unable to assess material
- 0920 Arrive at Sump D. Sump D  
is located in an area of 55  
gallon drum/garbage bins  
Slight sheen observed on  
Sump lid  
Probed sump and did not  
identify sufficient sampleable  
material for solids sampling  
Standing water observed on the  
upstream side of the weir

Location CleanscapesDate 9/3/14Project / Client NPDES / Ecology

- 1000 Completed probing at ~~top~~ Baker tank  
Did not identify sampleable material  
in the settling tank portion of  
Baker tank
- 1007 Inspected Sump D and did not  
identify any sampleable solids  
material
- 1020 Inspected CB-1 and found sufficient  
sampleable material. Decided to  
collect sample at this location.  
Sound Earth / Cleanscapes requests  
split sample
- 1045 Setup to sample at Treatment system  
effluent  
Sample ID CS-TS-01-20140903-W
- 1125 pH of effluent = 6.28
- 1200 completed sampling at Treatment  
System and moved to CB-1
- 1220 Sound Earth off site
- 1300 Began sediment sampling at CB-1  
Sample ID CS-CB-01-20140903-S
- 1330 completed sampling at CB-1 and  
moved to sump pump D.



6

Location CleanscapesDate 09/03/14Project / Client NPDES/Ecology

- 1415 Began water sampling at sump pump D  
Sample ID CS-SP-01-20140903-W
- 1445 Completed sampling at sump pump D.  
Packed up sampling equipment.  
Ecology offsite.  
C. Nancarrow offsite.  
C. Wilson & M. Ivancevich mob to field  
offize.
- 1500 C. Wilson & M. Ivancevich arrive at field  
offize. Prep coolers & COCs for  
shipping/courier pickup.
- 1515 C. Wilson offsite to FedEx to overnight  
Vista samples.
- 1530 C. Wilson returns to field offize.  
Continue to prep coolers & COCs for  
courier pickup.
- 1610 Completed prep of Vista Analytical Sample  
Shipment. C. Wilson delivered ~~Analytical~~<sup>ew 9/3/14</sup>  
sample cooler to FedEx for shipment  
to Vista Analytical @ 1620
- 1625 C. Wilson returned to Field offize to  
assist w/ Test America samples and  
Split samples to be sent to  
Sound Earth

Location

Cleanscapes

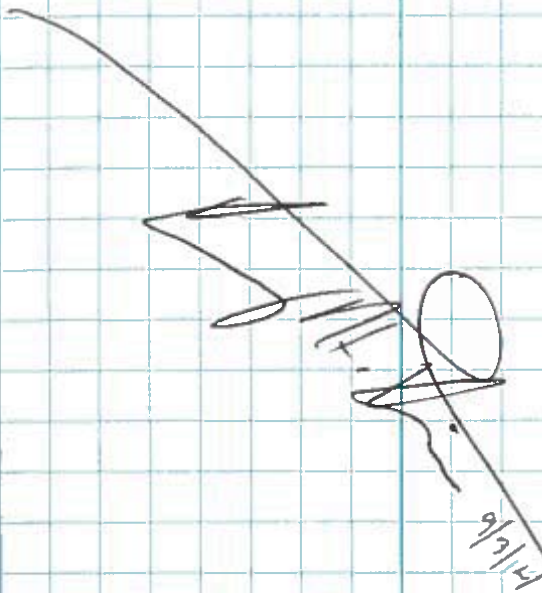
Date

09/03/14

Project / Client

NPDES/Ecology

- 1730 M. Ivancevich and C. Wilson complete  
sample shipment prep and relinquished  
Sound Earth split samples to C. Nancarrow  
for delivery.
- 1745 C. Wilson secured field offize.









### Sediment Collection Form

Project: NPDES Sampling Support

Location ID: CB-1

Facility Name: Cleanscapes/Recology

Sample ID: CS-CB-01-20140903-S

Sampled By: CW & MI

Date: 09 / 03 / 2014 Time: 1300

Structure Type: <u>CB</u>	Dimensions: W <u>2'</u> L <u>1'6"</u>	Standing Water: <input checked="" type="radio"/> Y <input type="radio"/> N	Flow: Y <input checked="" type="radio"/> N <input type="radio"/>
Conveyance System Sketch 		○ - Composite grab sample locations	
Depth to Bottom: <u>~5.5</u> ft	Depth to Water: <u>2</u> ft	Depth of Sediment: <u>~6</u> in	Sampled: <input checked="" type="radio"/> Y / <input type="radio"/> N Discrete / Composite (circle one)
<b>Sediment type:</b> Cobble Gravel Sand C M F <input checked="" type="radio"/> Silt/clay <input checked="" type="radio"/> Organic matter <input checked="" type="radio"/> Debris	<b>Sediment color:</b> Drab olive <input checked="" type="radio"/> Brown <u>Dark</u> Brown surface Gray <input checked="" type="radio"/> Black Tan	<b>Sediment Odor:</b> None Slight <input checked="" type="radio"/> Moderate Strong Overwhelming H <sub>2</sub> S <input checked="" type="radio"/> Petroleum	<b>Comments:</b> No VOAs collected  Photo ID(s): <u>Photos Taken</u> GPS ID: <u>CB01</u>

**NOTES:**

Visible Sheen on top of water and sediment  
 Catch basin had a filter sock that was removed prior to sampling  
 Unable to collect VOAs due to fine grain size and unable to use plugs

Recorded By/Date: CW/MI 9/3/14

Reviewed By/Date: [Signature] 9/4/14



## SURFACE WATER SAMPLING FORM

Client: Department of Ecology

Site: Cleanscapes/Recology

Job #: 309382

Sample ID	TIME	DATE	Flow	pH	Electrical Conductivity	Temp (°C)	Total Dissolved Solids	Turbidity (NTU)	Oil & Grease (visible?)	COMMENTS
CS-TS-DI-20140903-W	1200	09/03/14	manually activated	5.83	0.177 <input checked="" type="checkbox"/> S/cm	18.6	—	10.1	NO	slight yellow tinge
CS-SP-DI-20140903-W	1415	09/03/14	no flow	5.72	0.162 <input checked="" type="checkbox"/> S/cm	19.9	—	24.8	Yes (slight)	DO: 3.46g/L yellow tinge, slightly cloudy
					<input type="checkbox"/> S/cm					
					<input type="checkbox"/> S/cm					
					<input type="checkbox"/> S/cm					
					<input type="checkbox"/> S/cm					
					<input type="checkbox"/> S/cm					
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					<input type="checkbox"/> S/cm					

Sample Date: 09, 03 / 2014

**Attachment L-3**  
**Chain of Custody Forms**



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.testamericainc.com

Rush

Short Hold

**Chain of Custody Record**

Client <u>Leidos</u>	Client Contact <u>Christine Nannema</u>	Date <u>9/4/14</u>	Chain of Custody Number <b>24941</b>
Address <u>18917 N Creech Place, Ste 101</u>	Telephone Number (Area Code)/Fax Number <u>2069002144</u>	Lab Number	Page <u>1</u> of <u>1</u>

City <u>Bothell</u>	State <u>WA</u>	Zip Code <u>98011</u>	Sampler <u>Cowen Wilson</u>	Lab Contact <u>Kris Allen</u>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <u>NADES Consulting Support Washington</u>			Billing Contact		

Contract/Purchase Order/Quotg No. NA

Sample I.D. 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																					
QC-EB-01-20140903-W	9/3/14	0857		✓					12	2	2	8																					
CS-TS-01-20140903-W	9/3/14	1300		✓					7	1	1																						
CS-SP-01-20140903-W	9/3/14	1415		✓					7	1	1																						
CS-CB-01-20140903-W CW 9/3/14	9/3/14	1300		✓					3																								

Cooler <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temp: _____	Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Return To Client <input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
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Turn Around Time Required (business days) <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days <input type="checkbox"/> Other _____	QC Requirements (Specify)
---	---------------------------

1. Relinquished By <u>Cowen Wilson</u> Sign/Print	Date <u>9/4/14</u>	Time <u>0857</u>	1. Received By <u>Francisco Luna</u> Sign/Print	Date <u>9/4/14</u>	Time <u>0904</u>
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2. Relinquished By _____ Sign/Print	Date _____	Time _____	2. Received By _____ Sign/Print	Date _____	Time _____
-------------------------------------	------------	------------	---------------------------------	------------	------------

3. Relinquished By _____ Sign/Print	Date _____	Time _____	3. Received By _____ Sign/Print	Date _____	Time _____
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Comments: Please contact Leidos PM prior to disposal of samples. Two coolers total.



# CHAIN OF CUSTODY

FOR LABORATORY USE ONLY

Storage Secured

Laboratory Project ID: \_\_\_\_\_ Yes  No

Storage ID: \_\_\_\_\_ Temp: \_\_\_\_\_ °C

TAT: (Check One):

Standard:  21 Days

Rush (surcharge may apply):

14 days  7 days Specify: \_\_\_\_\_

Project I.D.: 11111ES Sampl. Support P.O.# N/A Sampler: Cary Wilson  
(Name)

Invoice to: Name Coca-Cola Company Ltd Address 1819 N. Greenway Blvd City Atlanta State GA Zip 30317 Ph# 404.292.0971 Fax# \_\_\_\_\_

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

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

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

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

Method of Shipment: Fed Ex

Add Analysis(es) Requested

Container(s)

ATTN: Sample Receiving

Tracking No.: \_\_\_\_\_

		EPA1613		EPA8290		EPA8280		EPA1668		EPA1614		CARB429	
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

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	
CS-EP-01-20140902-V	9/3/14	0730	Chloroform/Water	3	A	AQ																
CS-TS-01-20140902-V	9/3/14	0900	Chloroform/Water	4	A	AQ																
CS-SP-01-20140902-V	9/3/14	1415	Chloroform/Water	2	A	AQ																
CS-CP-01-20140902-V	9/3/14	1415	Chloroform/Water	1	G	SD																

Special Instructions/Comments: Water in container  
DO NOT OPEN UNTIL TELLER SAYS SO  
Date to analyze for PC-ED and CS-CP

SEND DOCUMENTATION AND RESULTS TO:

Name: \_\_\_\_\_  
Company: STATE AS ABOVE  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: marlene.c@vial.com

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

\*Bottle Preservative Type: T = Thiosulfate,  
O = Other \_\_\_\_\_

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



**Attachment L-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: 580-45232-1

Client Project/Site: NPDES Sampling Support  
Revision: 1

For:

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

Attn: Christine Nancarrow



Authorized for release by:  
12/22/2014 12:16:20 PM

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

[kristine.allen@testamericainc.com](mailto:kristine.allen@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

TestAmerica Job ID: 580-45232-1

**Job ID: 580-45232-1**

**Laboratory: TestAmerica Seattle**

## Narrative

**Job Narrative**  
**580-45232-1**

### Comments

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

No additional comments.

### Receipt

The samples were received on 9/4/2014 9:04 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.1° C and 5.6° C.

### GC/MS VOA

Method(s) 8260B: The method blank for batch 169963 contained Tetrachloroethene 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.

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: The method blank for batch 169198 contained Dimethyl phthalate, Diethyl phthalate and Bis(2-ethylhexyl) phthalate 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) 8270D: The continuing calibration verification (CCV) associated with analytical batch 169546 recovered above the upper control limit for Butyl benzyl phthalate, 4,6-Dinitro-2-methylphenol and 2-Nitroaniline. The affected analytes were not detected above the RL in the associated samples; therefore, the data have been reported. The following samples are impacted: (580-45232-1 MS), (580-45232-1 MSD), (CCVIS 580-169546/3), (LCS 580-168914/2-A), (LCSD 580-168914/3-A), (MB 580-168914/1-A), CS-SP-01-20140903-W (580-45232-3), CS-TS-01-20140903-W (580-45232-2), QC-EB-01-20140903-W (580-45232-1).

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with prep batch 168914: 3,3'-Dichlorobenzidine, 4-Chloroaniline and 2,4-Dimethylphenol. This is not indicative of a systematic control problem because these were random marginal exceedances. The RPD also exceeds limits for these compounds. Qualified results have been reported.

Method(s) 8270D: Benzyl alcohol exceeded the RPD limit for LCSD 580-168914/3-A. The individual recoveries are within the acceptance criteria.

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)

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

### GC Semi VOA

Method(s) 8082: In batch 169097, the following sample(s) required a copper clean-up to reduce matrix interferences caused by sulfur: (580-45232-4 MS), (580-45232-4 MSD), (LCS 580-168871/4-A), (LCSD 580-168871/5-A), (MB 580-168871/1-A), CS-CB-01-20140903-S

# Case Narrative

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

TestAmerica Job ID: 580-45232-1

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## Job ID: 580-45232-1 (Continued)

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### Laboratory: TestAmerica Seattle (Continued)

(580-45232-4). Lot# H25604

Method(s) 8082: In batch 169097, surrogate recovery for the following sample(s) was outside control limits: (580-45232-4 MS). Evidence of matrix interference is present very dark sulfuric acid layer from the cleanup, apparent matrix interference on chromatogram, and similar low recoveries on the parent and MSD sample, ; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: In analytical batch 169398, for the following sample from preparation batch 169338: QC-EB-01-20140903-W (580-45232-1), the results in the #2 Diesel Fuel (C10-C24) range(s) are due primarily to weathered/degraded diesel fuel. The affected analyte range(s) have been Y qualified and reported.

Method(s) NWTPH-Dx: In analysis batch 169177, for the following sample from preparation batch 169074: CS-CB-01-20140903-S (580-45232-4), the results in the #2 Diesel Fuel (C10-C24) range are due to what most closely resembles a complex mixture of weathered/degraded diesel fuel and motor oil. The affected analyte range has 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

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.

#### Geotechnical

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

#### Organic Prep

Method(s) 3550B: In preparation batch 168871, the following sample was composed of mostly water and created emulsions during the concentration process: (580-45232-4 MS), (580-45232-4 MSD), CS-CB-01-20140903-S (580-45232-4).

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



# Definitions/Glossary

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

TestAmerica Job ID: 580-45232-1

## Qualifiers

### GC/MS 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.

### 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.
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

### GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
Y	The chromatographic response resembles a typical fuel pattern.
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.
F1	MS and/or MSD Recovery exceeds the control limits
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds 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.

### General Chemistry

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.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery exceeds the control limits

## 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

TestAmerica Seattle

# Definitions/Glossary

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

TestAmerica Job ID: 580-45232-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

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# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: QC-EB-01-20140903-W**

**Lab Sample ID: 580-45232-1**

**Date Collected: 09/03/14 06:50**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.31	ug/L			09/16/14 21:32	1
Chloromethane	ND		5.0	0.19	ug/L			09/16/14 21:32	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/16/14 21:32	1
Bromomethane	ND		5.0	0.27	ug/L			09/16/14 21:32	1
Chloroethane	ND		5.0	0.40	ug/L			09/16/14 21:32	1
Trichlorofluoromethane	ND		1.0	0.26	ug/L			09/16/14 21:32	1
Acrolein	ND		20	7.3	ug/L			09/16/14 21:32	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			09/16/14 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/L			09/16/14 21:32	1
Iodomethane	ND		5.0	0.24	ug/L			09/16/14 21:32	1
Carbon disulfide	ND		1.0	0.30	ug/L			09/16/14 21:32	1
Acetone	ND		25	7.8	ug/L			09/16/14 21:32	1
Methylene Chloride	ND		3.0	1.3	ug/L			09/16/14 21:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			09/16/14 21:32	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			09/16/14 21:32	1
Acrylonitrile	ND		10	2.3	ug/L			09/16/14 21:32	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			09/16/14 21:32	1
Vinyl acetate	ND		5.0	0.23	ug/L			09/16/14 21:32	1
2,2-Dichloropropane	ND		1.0	0.20	ug/L			09/16/14 21:32	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			09/16/14 21:32	1
2-Butanone	ND		10	1.8	ug/L			09/16/14 21:32	1
Bromochloromethane	ND		1.0	0.29	ug/L			09/16/14 21:32	1
Chloroform	ND		1.0	0.17	ug/L			09/16/14 21:32	1
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L			09/16/14 21:32	1
Carbon tetrachloride	ND		1.0	0.24	ug/L			09/16/14 21:32	1
1,1-Dichloropropene	ND		1.0	0.12	ug/L			09/16/14 21:32	1
Benzene	ND		1.0	0.14	ug/L			09/16/14 21:32	1
1,2-Dichloroethane	ND		1.0	0.16	ug/L			09/16/14 21:32	1
Trichloroethene	ND		1.0	0.12	ug/L			09/16/14 21:32	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/16/14 21:32	1
Dibromomethane	ND		1.0	0.14	ug/L			09/16/14 21:32	1
Bromodichloromethane	ND		1.0	0.13	ug/L			09/16/14 21:32	1
2-Chloroethyl vinyl ether	ND		10	1.0	ug/L			09/16/14 21:32	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/14 21:32	1
4-Methyl-2-pentanone	ND		5.0	0.78	ug/L			09/16/14 21:32	1
<b>Toluene</b>	<b>0.19</b>	<b>J</b>	1.0	0.16	ug/L			09/16/14 21:32	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			09/16/14 21:32	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/16/14 21:32	1
<b>Tetrachloroethene</b>	<b>0.21</b>	<b>J B</b>	1.0	0.21	ug/L			09/16/14 21:32	1
1,3-Dichloropropane	ND		1.0	0.15	ug/L			09/16/14 21:32	1
2-Hexanone	ND		5.0	0.66	ug/L			09/16/14 21:32	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			09/16/14 21:32	1
1,2-Dibromoethane	ND		1.0	0.15	ug/L			09/16/14 21:32	1
Chlorobenzene	ND		1.0	0.11	ug/L			09/16/14 21:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/16/14 21:32	1
Ethylbenzene	ND		1.0	0.13	ug/L			09/16/14 21:32	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.13</b>	<b>J</b>	2.0	0.13	ug/L			09/16/14 21:32	1
o-Xylene	ND		1.0	0.12	ug/L			09/16/14 21:32	1
Styrene	ND		5.0	0.62	ug/L			09/16/14 21:32	1

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: QC-EB-01-20140903-W**

**Lab Sample ID: 580-45232-1**

Date Collected: 09/03/14 06:50

Matrix: Water

Date Received: 09/04/14 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.21	ug/L			09/16/14 21:32	1
Isopropylbenzene	ND		1.0	0.30	ug/L			09/16/14 21:32	1
Bromobenzene	ND		1.0	0.11	ug/L			09/16/14 21:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/L			09/16/14 21:32	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/16/14 21:32	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.76	ug/L			09/16/14 21:32	1
N-Propylbenzene	ND		1.0	0.13	ug/L			09/16/14 21:32	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			09/16/14 21:32	1
4-Chlorotoluene	ND		1.0	0.16	ug/L			09/16/14 21:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.13	ug/L			09/16/14 21:32	1
tert-Butylbenzene	ND		1.0	0.18	ug/L			09/16/14 21:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.11	ug/L			09/16/14 21:32	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			09/16/14 21:32	1
4-Isopropyltoluene	ND		1.0	0.13	ug/L			09/16/14 21:32	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			09/16/14 21:32	1
1,4-Dichlorobenzene	ND		1.0	0.13	ug/L			09/16/14 21:32	1
n-Butylbenzene	ND		2.0	0.63	ug/L			09/16/14 21:32	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			09/16/14 21:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.40	ug/L			09/16/14 21:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.23	ug/L			09/16/14 21:32	1
Hexachloro-1,3-butadiene	ND		1.0	0.13	ug/L			09/16/14 21:32	1
Naphthalene	ND		3.0	0.26	ug/L			09/16/14 21:32	1
1,2,3-Trichlorobenzene	ND		1.0	0.14	ug/L			09/16/14 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	107		70 - 136		09/16/14 21:32	1
Toluene-d8 (Surr)	98		85 - 120		09/16/14 21:32	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 120		09/16/14 21:32	1
4-Bromofluorobenzene (Surr)	105		75 - 120		09/16/14 21:32	1
Dibromofluoromethane (Surr)	97		85 - 115		09/16/14 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	3.1		0.59	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Bis(2-chloroethyl)ether	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2-Chlorophenol	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
1,3-Dichlorobenzene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
1,4-Dichlorobenzene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Benzyl alcohol	1.5	*	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
1,2-Dichlorobenzene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2-Methylphenol	0.17	J	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,2'-oxybis[1-chloropropane]	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
3 & 4 Methylphenol	0.47	J	0.79	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
N-Nitrosodi-n-propylamine	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Hexachloroethane	ND		0.59	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Nitrobenzene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Isophorone	0.15	J	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2-Nitrophenol	0.12	J	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,4-Dimethylphenol	ND	*	2.0	0.30	ug/L		09/05/14 10:14	09/12/14 13:01	1
Benzoic acid	14		3.0	0.59	ug/L		09/05/14 10:14	09/12/14 13:01	1

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: QC-EB-01-20140903-W**

**Lab Sample ID: 580-45232-1**

Date Collected: 09/03/14 06:50

Matrix: Water

Date Received: 09/04/14 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,4-Dichlorophenol	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
1,2,4-Trichlorobenzene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Naphthalene</b>	<b>0.14</b>	<b>J</b>	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
4-Chloroaniline	ND	*	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Hexachlorobutadiene	ND		0.59	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>4-Chloro-3-methylphenol</b>	<b>0.22</b>	<b>J</b>	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>2-Methylnaphthalene</b>	<b>0.046</b>	<b>J</b>	0.20	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
1-Methylnaphthalene	ND		0.059	0.030	ug/L		09/05/14 10:14	09/12/14 13:01	1
Hexachlorocyclopentadiene	ND		2.0	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,4,6-Trichlorophenol	ND		0.59	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,4,5-Trichlorophenol	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2-Chloronaphthalene	ND		0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
2-Nitroaniline	ND	^	0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Dimethyl phthalate</b>	<b>1.8</b>		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Acenaphthylene	ND		0.079	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>2,6-Dinitrotoluene</b>	<b>1.3</b>		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
3-Nitroaniline	ND		0.40	0.12	ug/L		09/05/14 10:14	09/12/14 13:01	1
Acenaphthene	ND		0.099	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,4-Dinitrophenol	ND		4.9	0.99	ug/L		09/05/14 10:14	09/12/14 13:01	1
4-Nitrophenol	ND		3.0	0.99	ug/L		09/05/14 10:14	09/12/14 13:01	1
Dibenzofuran	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
2,4-Dinitrotoluene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Diethyl phthalate</b>	<b>11</b>		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
4-Chlorophenyl phenyl ether	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Fluorene</b>	<b>0.033</b>	<b>J</b>	0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
4-Nitroaniline	ND		0.59	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
4,6-Dinitro-2-methylphenol	ND	^	4.0	0.99	ug/L		09/05/14 10:14	09/12/14 13:01	1
N-Nitrosodiphenylamine	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
4-Bromophenyl phenyl ether	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Hexachlorobenzene	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Pentachlorophenol</b>	<b>0.21</b>	<b>J</b>	0.69	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Phenanthrene</b>	<b>0.032</b>	<b>J</b>	0.079	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
Anthracene	ND		0.040	0.0099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Carbazole	ND		0.40	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Di-n-butyl phthalate</b>	<b>1.3</b>		0.40	0.13	ug/L		09/05/14 10:14	09/12/14 13:01	1
Fluoranthene	ND		0.049	0.013	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Pyrene</b>	<b>0.013</b>	<b>J</b>	0.059	0.013	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Butyl benzyl phthalate</b>	<b>0.23</b>	<b>J ^</b>	0.59	0.20	ug/L		09/05/14 10:14	09/12/14 13:01	1
3,3'-Dichlorobenzidine	ND	*	2.0	0.099	ug/L		09/05/14 10:14	09/12/14 13:01	1
Benzo[a]anthracene	ND		0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
Chrysene	ND		0.040	0.013	ug/L		09/05/14 10:14	09/12/14 13:01	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>1.8</b>	<b>J</b>	3.0	1.2	ug/L		09/05/14 10:14	09/12/14 13:01	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		09/05/14 10:14	09/12/14 13:01	1
Benzo[b]fluoranthene	ND		0.079	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
Benzo[k]fluoranthene	ND		0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
Indeno[1,2,3-cd]pyrene	ND		0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
Dibenz(a,h)anthracene	ND		0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1

TestAmerica Seattle



# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: QC-EB-01-20140903-W**

**Lab Sample ID: 580-45232-1**

Date Collected: 09/03/14 06:50

Matrix: Water

Date Received: 09/04/14 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		0.059	0.020	ug/L		09/05/14 10:14	09/12/14 13:01	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		09/05/14 10:14	09/12/14 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		30 - 134				09/05/14 10:14	09/12/14 13:01	1
Phenol-d5	80		52 - 120				09/05/14 10:14	09/12/14 13:01	1
2,4,6-Tribromophenol	103		44 - 125				09/05/14 10:14	09/12/14 13:01	1
Nitrobenzene-d5	96		59 - 120				09/05/14 10:14	09/12/14 13:01	1
2-Fluorobiphenyl	81		50 - 120				09/05/14 10:14	09/12/14 13:01	1
Terphenyl-d14	107		64 - 150				09/05/14 10:14	09/12/14 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.010	mg/L			09/04/14 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150					09/04/14 21:07	1
Trifluorotoluene (Surr)	112		50 - 150					09/04/14 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.068	ug/L		09/05/14 15:48	09/10/14 00:42	1
PCB-1221	ND		0.52	0.071	ug/L		09/05/14 15:48	09/10/14 00:42	1
PCB-1232	ND		0.52	0.057	ug/L		09/05/14 15:48	09/10/14 00:42	1
PCB-1242	ND		0.52	0.082	ug/L		09/05/14 15:48	09/10/14 00:42	1
PCB-1248	ND		0.52	0.063	ug/L		09/05/14 15:48	09/10/14 00:42	1
PCB-1254	ND		0.52	0.083	ug/L		09/05/14 15:48	09/10/14 00:42	1
PCB-1260	ND		0.52	0.060	ug/L		09/05/14 15:48	09/10/14 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		26 - 124				09/05/14 15:48	09/10/14 00:42	1
DCB Decachlorobiphenyl	113		38 - 121				09/05/14 15:48	09/10/14 00:42	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)	0.21	Y B	0.12	0.019	mg/L		09/10/14 11:59	09/11/14 11:54	1
Motor Oil (>C24-C36)	0.038	J	0.25	0.029	mg/L		09/10/14 11:59	09/11/14 11:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	88		50 - 150				09/10/14 11:59	09/11/14 11:54	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		09/05/14 08:41	09/05/14 14:37	1
Antimony	ND		0.00040	0.000080	mg/L		09/05/14 08:41	09/05/14 14:37	1
Beryllium	ND		0.00040	0.00010	mg/L		09/05/14 08:41	09/05/14 14:37	1
Cadmium	ND		0.00040	0.000028	mg/L		09/05/14 08:41	09/05/14 14:37	1
Chromium	ND		0.00040	0.00027	mg/L		09/05/14 08:41	09/05/14 14:37	1
Copper	ND		0.0010	0.00011	mg/L		09/05/14 08:41	09/05/14 14:37	1
Lead	ND		0.00040	0.000034	mg/L		09/05/14 08:41	09/05/14 14:37	1
Nickel	ND		0.0030	0.00040	mg/L		09/05/14 08:41	09/05/14 14:37	1

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: QC-EB-01-20140903-W**

**Lab Sample ID: 580-45232-1**

**Date Collected: 09/03/14 06:50**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010	0.00071	mg/L		09/05/14 08:41	09/05/14 14:37	1
Silver	ND		0.00040	0.000030	mg/L		09/05/14 08:41	09/05/14 14:37	1
Thallium	ND		0.0010	0.00028	mg/L		09/05/14 08:41	09/05/14 14:37	1
<b>Zinc</b>	<b>0.0033</b>	<b>J</b>	0.0040	0.0019	mg/L		09/05/14 08:41	09/05/14 14:37	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		09/08/14 06:55	09/08/14 10:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10	10	umhos/cm			09/04/14 10:00	1
Chloride	ND		0.90	0.30	mg/L			09/04/14 12:13	1
Nitrate as N	ND		0.90	0.20	mg/L			09/04/14 12:13	1
<b>Sulfate</b>	<b>0.57</b>	<b>J</b>	1.2	0.40	mg/L			09/04/14 12:13	1
Alkalinity	ND		5.0	5.0	mg/L			09/04/14 16:30	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			09/04/14 16:30	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			09/04/14 16:30	1
Total Suspended Solids	ND		3.3	3.3	mg/L			09/04/14 16:07	1
<b>pH</b>	<b>5.42</b>	<b>HF</b>	0.0100	0.0100	SU			09/04/14 12:27	1
<b>Total Organic Carbon</b>	<b>0.64</b>	<b>J</b>	1.0	0.33	mg/L			09/12/14 11:18	1

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-TS-01-20140903-W**

**Lab Sample ID: 580-45232-2**

**Date Collected: 09/03/14 12:00**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phenol</b>	<b>1.6</b>	<b>J</b>	3.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Bis(2-chloroethyl)ether	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2-Chlorophenol	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
<b>Benzyl alcohol</b>	<b>4.5</b>	<b>*</b>	2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2-Methylphenol	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,2'-oxybis[1-chloropropane]	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
<b>3 &amp; 4 Methylphenol</b>	<b>2.9</b>	<b>J</b>	4.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
N-Nitrosodi-n-propylamine	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Hexachloroethane	ND		3.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Nitrobenzene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Isophorone	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2-Nitrophenol	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,4-Dimethylphenol	ND	*	10	1.5	ug/L		09/05/14 10:14	09/12/14 14:12	5
<b>Benzoic acid</b>	<b>9.5</b>	<b>J</b>	15	3.0	ug/L		09/05/14 10:14	09/12/14 14:12	5
Bis(2-chloroethoxy)methane	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,4-Dichlorophenol	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Naphthalene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
4-Chloroaniline	ND	*	2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Hexachlorobutadiene	ND		3.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
4-Chloro-3-methylphenol	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2-Methylnaphthalene	ND		1.0	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
1-Methylnaphthalene	ND		0.30	0.15	ug/L		09/05/14 10:14	09/12/14 14:12	5
Hexachlorocyclopentadiene	ND		10	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,4,6-Trichlorophenol	ND		3.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2-Chloronaphthalene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
2-Nitroaniline	ND	^	2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Dimethyl phthalate	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Acenaphthylene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,6-Dinitrotoluene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
3-Nitroaniline	ND		2.0	0.60	ug/L		09/05/14 10:14	09/12/14 14:12	5
Acenaphthene	ND		0.50	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,4-Dinitrophenol	ND		25	5.0	ug/L		09/05/14 10:14	09/12/14 14:12	5
4-Nitrophenol	ND		15	5.0	ug/L		09/05/14 10:14	09/12/14 14:12	5
Dibenzofuran	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
2,4-Dinitrotoluene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Diethyl phthalate	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
4-Chlorophenyl phenyl ether	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Fluorene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
4-Nitroaniline	ND		3.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
4,6-Dinitro-2-methylphenol	ND	^	20	5.0	ug/L		09/05/14 10:14	09/12/14 14:12	5
N-Nitrosodiphenylamine	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
4-Bromophenyl phenyl ether	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Hexachlorobenzene	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Pentachlorophenol	ND		3.5	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-TS-01-20140903-W**

**Lab Sample ID: 580-45232-2**

Date Collected: 09/03/14 12:00

Matrix: Water

Date Received: 09/04/14 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Anthracene	ND		0.20	0.050	ug/L		09/05/14 10:14	09/12/14 14:12	5
Carbazole	ND		2.0	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
<b>Di-n-butyl phthalate</b>	<b>0.85</b>	<b>J</b>	2.0	0.65	ug/L		09/05/14 10:14	09/12/14 14:12	5
Fluoranthene	ND		0.25	0.065	ug/L		09/05/14 10:14	09/12/14 14:12	5
Pyrene	ND		0.30	0.065	ug/L		09/05/14 10:14	09/12/14 14:12	5
Butyl benzyl phthalate	ND	^	3.0	1.0	ug/L		09/05/14 10:14	09/12/14 14:12	5
3,3'-Dichlorobenzidine	ND	*	10	0.50	ug/L		09/05/14 10:14	09/12/14 14:12	5
Benzo[a]anthracene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Chrysene	ND		0.20	0.065	ug/L		09/05/14 10:14	09/12/14 14:12	5
Bis(2-ethylhexyl) phthalate	ND		15	5.9	ug/L		09/05/14 10:14	09/12/14 14:12	5
Di-n-octyl phthalate	ND		2.0	0.90	ug/L		09/05/14 10:14	09/12/14 14:12	5
Benzo[b]fluoranthene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Benzo[k]fluoranthene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Benzo[a]pyrene	ND		0.20	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Indeno[1,2,3-cd]pyrene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Dibenz(a,h)anthracene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
Benzo[g,h,i]perylene	ND		0.30	0.10	ug/L		09/05/14 10:14	09/12/14 14:12	5
N-Nitrosodimethylamine	ND		10	1.0	ug/L		09/05/14 10:14	09/12/14 14:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	68		30 - 134	09/05/14 10:14	09/12/14 14:12	5
Phenol-d5	84		52 - 120	09/05/14 10:14	09/12/14 14:12	5
2,4,6-Tribromophenol	117		44 - 125	09/05/14 10:14	09/12/14 14:12	5
Nitrobenzene-d5	114		59 - 120	09/05/14 10:14	09/12/14 14:12	5
2-Fluorobiphenyl	92		50 - 120	09/05/14 10:14	09/12/14 14:12	5
Terphenyl-d14	101		64 - 150	09/05/14 10:14	09/12/14 14:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0016</b>		0.0010	0.00075	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Antimony</b>	<b>0.0018</b>		0.00040	0.000080	mg/L		09/05/14 08:41	09/05/14 14:41	1
Beryllium	ND		0.00040	0.00010	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Cadmium</b>	<b>0.00062</b>		0.00040	0.000028	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Chromium</b>	<b>0.0017</b>		0.00040	0.00027	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Copper</b>	<b>0.025</b>		0.0010	0.00011	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Lead</b>	<b>0.0057</b>		0.00040	0.000034	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Nickel</b>	<b>0.0075</b>		0.0030	0.00040	mg/L		09/05/14 08:41	09/05/14 14:41	1
Selenium	ND		0.0010	0.00071	mg/L		09/05/14 08:41	09/05/14 14:41	1
Silver	ND		0.00040	0.000030	mg/L		09/05/14 08:41	09/05/14 14:41	1
Thallium	ND		0.0010	0.00028	mg/L		09/05/14 08:41	09/05/14 14:41	1
<b>Zinc</b>	<b>0.24</b>		0.0040	0.0019	mg/L		09/05/14 08:41	09/05/14 14:41	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000059</b>	<b>J</b>	0.00020	0.000041	mg/L		09/08/14 06:55	09/08/14 10:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Specific Conductance</b>	<b>130</b>		10	10	umhos/cm			09/04/14 10:00	1

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-TS-01-20140903-W**

**Lab Sample ID: 580-45232-2**

**Date Collected: 09/03/14 12:00**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>7.0</b>		0.90	0.30	mg/L			09/04/14 12:57	1
Nitrate as N	ND		0.90	0.20	mg/L			09/04/14 12:57	1
<b>Sulfate</b>	<b>15</b>		1.2	0.40	mg/L			09/04/14 12:57	1
<b>Alkalinity</b>	<b>25</b>		5.0	5.0	mg/L			09/04/14 16:30	1
<b>Bicarbonate Alkalinity as CaCO3</b>	<b>25</b>		5.0	5.0	mg/L			09/04/14 16:30	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			09/04/14 16:30	1
<b>Total Suspended Solids</b>	<b>7.0</b>		5.0	5.0	mg/L			09/04/14 16:07	1
<b>pH</b>	<b>6.03</b>	<b>HF</b>	0.0100	0.0100	SU			09/04/14 12:30	1
<b>Total Organic Carbon</b>	<b>44</b>		10	3.3	mg/L			09/12/14 11:18	10



# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-SP-01-20140903-W**

**Lab Sample ID: 580-45232-3**

**Date Collected: 09/03/14 14:15**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phenol</b>	<b>1.1</b>	<b>J</b>	2.9	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Bis(2-chloroethyl)ether	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2-Chlorophenol	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
1,3-Dichlorobenzene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
1,4-Dichlorobenzene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
<b>Benzyl alcohol</b>	<b>2.2</b>	<b>*</b>	2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
1,2-Dichlorobenzene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2-Methylphenol	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,2'-oxybis[1-chloropropane]	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
<b>3 &amp; 4 Methylphenol</b>	<b>0.84</b>	<b>J</b>	3.9	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
N-Nitrosodi-n-propylamine	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Hexachloroethane	ND		2.9	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Nitrobenzene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Isophorone	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2-Nitrophenol	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,4-Dimethylphenol	ND	*	9.8	1.5	ug/L		09/05/14 10:14	09/12/14 14:36	5
<b>Benzoic acid</b>	<b>11</b>	<b>J</b>	15	2.9	ug/L		09/05/14 10:14	09/12/14 14:36	5
Bis(2-chloroethoxy)methane	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,4-Dichlorophenol	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
1,2,4-Trichlorobenzene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Naphthalene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
4-Chloroaniline	ND	*	2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Hexachlorobutadiene	ND		2.9	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
4-Chloro-3-methylphenol	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2-Methylnaphthalene	ND		0.98	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
1-Methylnaphthalene	ND		0.29	0.15	ug/L		09/05/14 10:14	09/12/14 14:36	5
Hexachlorocyclopentadiene	ND		9.8	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,4,6-Trichlorophenol	ND		2.9	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,4,5-Trichlorophenol	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2-Chloronaphthalene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
2-Nitroaniline	ND	^	2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Dimethyl phthalate	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Acenaphthylene	ND		0.39	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,6-Dinitrotoluene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
3-Nitroaniline	ND		2.0	0.59	ug/L		09/05/14 10:14	09/12/14 14:36	5
Acenaphthene	ND		0.49	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,4-Dinitrophenol	ND		24	4.9	ug/L		09/05/14 10:14	09/12/14 14:36	5
4-Nitrophenol	ND		15	4.9	ug/L		09/05/14 10:14	09/12/14 14:36	5
Dibenzofuran	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
2,4-Dinitrotoluene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Diethyl phthalate	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
4-Chlorophenyl phenyl ether	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Fluorene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
4-Nitroaniline	ND		2.9	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
4,6-Dinitro-2-methylphenol	ND	^	20	4.9	ug/L		09/05/14 10:14	09/12/14 14:36	5
N-Nitrosodiphenylamine	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
4-Bromophenyl phenyl ether	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Hexachlorobenzene	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Pentachlorophenol	ND		3.4	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-SP-01-20140903-W**

**Lab Sample ID: 580-45232-3**

Date Collected: 09/03/14 14:15

Matrix: Water

Date Received: 09/04/14 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.39	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Anthracene	ND		0.20	0.049	ug/L		09/05/14 10:14	09/12/14 14:36	5
Carbazole	ND		2.0	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Di-n-butyl phthalate	ND		2.0	0.64	ug/L		09/05/14 10:14	09/12/14 14:36	5
Fluoranthene	ND		0.24	0.064	ug/L		09/05/14 10:14	09/12/14 14:36	5
Pyrene	ND		0.29	0.064	ug/L		09/05/14 10:14	09/12/14 14:36	5
Butyl benzyl phthalate	ND	^	2.9	0.98	ug/L		09/05/14 10:14	09/12/14 14:36	5
3,3'-Dichlorobenzidine	ND	*	9.8	0.49	ug/L		09/05/14 10:14	09/12/14 14:36	5
Benzo[a]anthracene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Chrysene	ND		0.20	0.064	ug/L		09/05/14 10:14	09/12/14 14:36	5
<b>Bis(2-ethylhexyl) phthalate</b>	<b>6.8</b>	<b>J</b>	15	5.8	ug/L		09/05/14 10:14	09/12/14 14:36	5
Di-n-octyl phthalate	ND		2.0	0.88	ug/L		09/05/14 10:14	09/12/14 14:36	5
Benzo[b]fluoranthene	ND		0.39	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Benzo[k]fluoranthene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Benzo[a]pyrene	ND		0.20	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Indeno[1,2,3-cd]pyrene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Dibenz(a,h)anthracene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
Benzo[g,h,i]perylene	ND		0.29	0.098	ug/L		09/05/14 10:14	09/12/14 14:36	5
N-Nitrosodimethylamine	ND		9.8	0.98	ug/L		09/05/14 10:14	09/12/14 14:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		30 - 134	09/05/14 10:14	09/12/14 14:36	5
Phenol-d5	87		52 - 120	09/05/14 10:14	09/12/14 14:36	5
2,4,6-Tribromophenol	112		44 - 125	09/05/14 10:14	09/12/14 14:36	5
Nitrobenzene-d5	109		59 - 120	09/05/14 10:14	09/12/14 14:36	5
2-Fluorobiphenyl	89		50 - 120	09/05/14 10:14	09/12/14 14:36	5
Terphenyl-d14	97		64 - 150	09/05/14 10:14	09/12/14 14:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0019</b>		0.0010	0.00075	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Antimony</b>	<b>0.0019</b>		0.00040	0.000080	mg/L		09/05/14 08:41	09/05/14 14:44	1
Beryllium	ND		0.00040	0.00010	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Cadmium</b>	<b>0.00078</b>		0.00040	0.000028	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Chromium</b>	<b>0.0023</b>		0.00040	0.00027	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Copper</b>	<b>0.029</b>		0.0010	0.00011	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Lead</b>	<b>0.0085</b>		0.00040	0.000034	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Nickel</b>	<b>0.0058</b>		0.0030	0.00040	mg/L		09/05/14 08:41	09/05/14 14:44	1
Selenium	ND		0.0010	0.00071	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Silver</b>	<b>0.000037</b>	<b>J</b>	0.00040	0.000030	mg/L		09/05/14 08:41	09/05/14 14:44	1
Thallium	ND		0.0010	0.00028	mg/L		09/05/14 08:41	09/05/14 14:44	1
<b>Zinc</b>	<b>0.20</b>		0.0040	0.0019	mg/L		09/05/14 08:41	09/05/14 14:44	1

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000088</b>	<b>J</b>	0.00020	0.000041	mg/L		09/08/14 06:55	09/08/14 10:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Specific Conductance</b>	<b>120</b>		10	10	umhos/cm			09/04/14 10:00	1

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-SP-01-20140903-W**

**Lab Sample ID: 580-45232-3**

Date Collected: 09/03/14 14:15

Matrix: Water

Date Received: 09/04/14 09:55

## General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>6.2</b>		0.90	0.30	mg/L			09/04/14 13:11	1
Nitrate as N	ND		0.90	0.20	mg/L			09/04/14 13:11	1
<b>Sulfate</b>	<b>12</b>		1.2	0.40	mg/L			09/04/14 13:11	1
<b>Alkalinity</b>	<b>29</b>		5.0	5.0	mg/L			09/04/14 16:32	1
<b>Bicarbonate Alkalinity as CaCO3</b>	<b>29</b>		5.0	5.0	mg/L			09/04/14 16:32	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			09/04/14 16:32	1
<b>Total Suspended Solids</b>	<b>280</b>		33	33	mg/L			09/04/14 16:07	1
<b>pH</b>	<b>6.26</b>	<b>HF</b>	0.0100	0.0100	SU			09/04/14 12:32	1
<b>Total Organic Carbon</b>	<b>48</b>		10	3.3	mg/L			09/12/14 11:18	10



# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-CB-01-20140903-S**

**Lab Sample ID: 580-45232-4**

Date Collected: 09/03/14 13:00

Matrix: Solid

Date Received: 09/04/14 09:55

Percent Solids: 41.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Bis(2-chloroethyl)ether	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2-Chlorophenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
1,3-Dichlorobenzene	ND		240	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
1,4-Dichlorobenzene	ND		240	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzyl alcohol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
1,2-Dichlorobenzene	ND		260	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2-Methylphenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
<b>3 &amp; 4 Methylphenol</b>	<b>460</b>	<b>J</b>	940	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
N-Nitrosodi-n-propylamine	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Hexachloroethane	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Nitrobenzene	ND		470	160	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Isophorone	ND		470	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2-Nitrophenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,4-Dimethylphenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzoic acid	ND		12000	3500	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Bis(2-chloroethoxy)methane	ND		470	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,4-Dichlorophenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
1,2,4-Trichlorobenzene	ND		240	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
<b>Naphthalene</b>	<b>39</b>	<b>J</b>	94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4-Chloroaniline	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Hexachlorobutadiene	ND		240	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4-Chloro-3-methylphenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
<b>2-Methylnaphthalene</b>	<b>49</b>	<b>J</b>	94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Hexachlorocyclopentadiene	ND		470	47	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,4,6-Trichlorophenol	ND		710	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,4,5-Trichlorophenol	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2-Chloronaphthalene	ND		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2-Nitroaniline	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Dimethyl phthalate	ND		470	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Acenaphthylene	ND		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,6-Dinitrotoluene	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
3-Nitroaniline	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Acenaphthene	ND		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,4-Dinitrophenol	ND		4700	940	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4-Nitrophenol	ND		4700	1200	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Dibenzofuran	ND		470	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,4-Dinitrotoluene	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
<b>Diethyl phthalate</b>	<b>170</b>	<b>J B</b>	940	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4-Chlorophenyl phenyl ether	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
<b>Fluorene</b>	<b>94</b>		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4-Nitroaniline	ND		470	94	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4,6-Dinitro-2-methylphenol	ND		4700	470	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
N-Nitrosodiphenylamine	ND		240	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
4-Bromophenyl phenyl ether	ND		470	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Hexachlorobenzene	ND		240	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Pentachlorophenol	ND		940	94	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
<b>Phenanthrene</b>	<b>240</b>		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Anthracene	ND		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-CB-01-20140903-S**

**Lab Sample ID: 580-45232-4**

Date Collected: 09/03/14 13:00

Matrix: Solid

Date Received: 09/04/14 09:55

Percent Solids: 41.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	410	J	2400	240	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Fluoranthene	220		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Pyrene	420		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Butyl benzyl phthalate	1400		940	240	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
3,3'-Dichlorobenzidine	ND		940	140	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzo[a]anthracene	ND		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Chrysene	ND		120	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Bis(2-ethylhexyl) phthalate	32000	B	2800	240	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Di-n-octyl phthalate	ND		2400	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzo[a]pyrene	ND		140	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Dibenz(a,h)anthracene	ND		190	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzo[g,h,i]perylene	ND		120	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Carbazole	ND		470	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
1-Methylnaphthalene	35	J	140	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzo[b]fluoranthene	ND		94	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
Benzo[k]fluoranthene	ND		120	24	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
2,2'-oxybis[1-chloropropane]	ND		1200	71	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20
N-Nitrosodimethylamine	ND		4700	1200	ug/Kg	☼	09/12/14 11:00	09/19/14 19:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	52		36 - 145	09/12/14 11:00	09/19/14 19:09	20
Phenol-d5	56		38 - 149	09/12/14 11:00	09/19/14 19:09	20
Nitrobenzene-d5	62		38 - 141	09/12/14 11:00	09/19/14 19:09	20
2-Fluorobiphenyl	53		42 - 140	09/12/14 11:00	09/19/14 19:09	20
2,4,6-Tribromophenol	44		28 - 143	09/12/14 11:00	09/19/14 19:09	20
Terphenyl-d14	59		42 - 151	09/12/14 11:00	09/19/14 19:09	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.022	0.0071	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1
Arochlor 1221	ND		0.025	0.018	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1
Arochlor 1232	ND		0.025	0.016	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1
Arochlor 1242	ND		0.022	0.0047	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1
Arochlor 1248	ND		0.022	0.0067	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1
Arochlor 1254	ND		0.022	0.0047	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1
Arochlor 1260	0.051		0.022	0.0067	mg/Kg	☼	09/05/14 10:38	09/08/14 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		45 - 135	09/05/14 10:38	09/08/14 18:49	1
DCB Decachlorobiphenyl	63		50 - 140	09/05/14 10:38	09/08/14 18:49	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)	6800	Y	58	13	mg/Kg	☼	09/08/14 10:10	09/09/14 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 150	09/08/14 10:10	09/09/14 21:30	1

TestAmerica Seattle

# Client Sample Results

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-CB-01-20140903-S**

**Lab Sample ID: 580-45232-4**

Date Collected: 09/03/14 13:00

Matrix: Solid

Date Received: 09/04/14 09:55

Percent Solids: 41.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil (>C24-C36)	45000		580	110	mg/Kg	☼	09/08/14 10:10	09/10/14 10:27	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	92		50 - 150				09/08/14 10:10	09/10/14 10:27	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		1.2	0.42	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Lead	170		0.47	0.031	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Antimony	4.0		0.47	0.099	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Beryllium	0.24	J	0.47	0.082	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Cadmium	2.3		0.47	0.019	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Chromium	63		0.47	0.27	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Copper	140		0.94	0.23	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Nickel	43		1.2	0.19	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Selenium	0.81	J	1.6	0.47	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Silver	0.38	J	0.47	0.028	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Thallium	ND		1.2	0.31	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10
Zinc	1100		4.7	2.6	mg/Kg	☼	09/08/14 15:41	09/09/14 13:47	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.031	0.0098	mg/Kg	☼	09/04/14 14:25	09/05/14 10:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	42		0.10	0.10	%			09/04/14 17:13	1
Percent Moisture	58		0.10	0.10	%			09/04/14 17:13	1
Total Solids	39		0.012	0.012	%			09/09/14 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			09/09/14 12:30	1
Gravel	1.6				%			09/09/14 12:30	1
Sand	63				%			09/09/14 12:30	1
Silt	30				%			09/09/14 12:30	1
Clay	5.6				%			09/09/14 12:30	1

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: MB 580-169936/4**

**Matrix: Water**

**Analysis Batch: 169936**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.31	ug/L			09/16/14 17:02	1
Chloromethane	ND		5.0	0.19	ug/L			09/16/14 17:02	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/16/14 17:02	1
Bromomethane	ND		5.0	0.27	ug/L			09/16/14 17:02	1
Chloroethane	ND		5.0	0.40	ug/L			09/16/14 17:02	1
Trichlorofluoromethane	ND		1.0	0.26	ug/L			09/16/14 17:02	1
Acrolein	ND		20	7.3	ug/L			09/16/14 17:02	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			09/16/14 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/L			09/16/14 17:02	1
Iodomethane	ND		5.0	0.24	ug/L			09/16/14 17:02	1
Carbon disulfide	ND		1.0	0.30	ug/L			09/16/14 17:02	1
Acetone	ND		25	7.8	ug/L			09/16/14 17:02	1
Methylene Chloride	ND		3.0	1.3	ug/L			09/16/14 17:02	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			09/16/14 17:02	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			09/16/14 17:02	1
Acrylonitrile	ND		10	2.3	ug/L			09/16/14 17:02	1
1,1-Dichloroethane	ND		1.0	0.17	ug/L			09/16/14 17:02	1
Vinyl acetate	ND		5.0	0.23	ug/L			09/16/14 17:02	1
2,2-Dichloropropane	ND		1.0	0.20	ug/L			09/16/14 17:02	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			09/16/14 17:02	1
2-Butanone	ND		10	1.8	ug/L			09/16/14 17:02	1
Bromochloromethane	ND		1.0	0.29	ug/L			09/16/14 17:02	1
Chloroform	ND		1.0	0.17	ug/L			09/16/14 17:02	1
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L			09/16/14 17:02	1
Carbon tetrachloride	ND		1.0	0.24	ug/L			09/16/14 17:02	1
1,1-Dichloropropene	ND		1.0	0.12	ug/L			09/16/14 17:02	1
Benzene	ND		1.0	0.14	ug/L			09/16/14 17:02	1
1,2-Dichloroethane	ND		1.0	0.16	ug/L			09/16/14 17:02	1
Trichloroethene	ND		1.0	0.12	ug/L			09/16/14 17:02	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/16/14 17:02	1
Dibromomethane	ND		1.0	0.14	ug/L			09/16/14 17:02	1
Bromodichloromethane	ND		1.0	0.13	ug/L			09/16/14 17:02	1
2-Chloroethyl vinyl ether	ND		10	1.0	ug/L			09/16/14 17:02	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/16/14 17:02	1
4-Methyl-2-pentanone	ND		5.0	0.78	ug/L			09/16/14 17:02	1
Toluene	ND		1.0	0.16	ug/L			09/16/14 17:02	1
trans-1,3-Dichloropropene	ND		1.0	0.16	ug/L			09/16/14 17:02	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/16/14 17:02	1
Tetrachloroethene	0.224	J	1.0	0.21	ug/L			09/16/14 17:02	1
1,3-Dichloropropane	ND		1.0	0.15	ug/L			09/16/14 17:02	1
2-Hexanone	ND		5.0	0.66	ug/L			09/16/14 17:02	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			09/16/14 17:02	1
1,2-Dibromoethane	ND		1.0	0.15	ug/L			09/16/14 17:02	1
Chlorobenzene	ND		1.0	0.11	ug/L			09/16/14 17:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/16/14 17:02	1
Ethylbenzene	ND		1.0	0.13	ug/L			09/16/14 17:02	1
m-Xylene & p-Xylene	ND		2.0	0.13	ug/L			09/16/14 17:02	1
o-Xylene	ND		1.0	0.12	ug/L			09/16/14 17:02	1

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: MB 580-169936/4**

**Matrix: Water**

**Analysis Batch: 169936**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	0.62	ug/L			09/16/14 17:02	1
Bromoform	ND		1.0	0.21	ug/L			09/16/14 17:02	1
Isopropylbenzene	ND		1.0	0.30	ug/L			09/16/14 17:02	1
Bromobenzene	ND		1.0	0.11	ug/L			09/16/14 17:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.24	ug/L			09/16/14 17:02	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/L			09/16/14 17:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	0.76	ug/L			09/16/14 17:02	1
N-Propylbenzene	ND		1.0	0.13	ug/L			09/16/14 17:02	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			09/16/14 17:02	1
4-Chlorotoluene	ND		1.0	0.16	ug/L			09/16/14 17:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.13	ug/L			09/16/14 17:02	1
tert-Butylbenzene	ND		1.0	0.18	ug/L			09/16/14 17:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.11	ug/L			09/16/14 17:02	1
sec-Butylbenzene	ND		1.0	0.15	ug/L			09/16/14 17:02	1
4-Isopropyltoluene	ND		1.0	0.13	ug/L			09/16/14 17:02	1
1,3-Dichlorobenzene	ND		1.0	0.15	ug/L			09/16/14 17:02	1
1,4-Dichlorobenzene	ND		1.0	0.13	ug/L			09/16/14 17:02	1
n-Butylbenzene	ND		2.0	0.63	ug/L			09/16/14 17:02	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			09/16/14 17:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.40	ug/L			09/16/14 17:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.23	ug/L			09/16/14 17:02	1
Hexachloro-1,3-butadiene	ND		1.0	0.13	ug/L			09/16/14 17:02	1
Naphthalene	ND		3.0	0.26	ug/L			09/16/14 17:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.14	ug/L			09/16/14 17:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	105		70 - 136		09/16/14 17:02	1
Toluene-d8 (Surr)	103		85 - 120		09/16/14 17:02	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 120		09/16/14 17:02	1
4-Bromofluorobenzene (Surr)	104		75 - 120		09/16/14 17:02	1
Dibromofluoromethane (Surr)	98		85 - 115		09/16/14 17:02	1

**Lab Sample ID: LCS 580-169936/5**

**Matrix: Water**

**Analysis Batch: 169936**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	14.3		ug/L		72	30 - 155
Chloromethane	20.0	16.0		ug/L		80	40 - 125
Vinyl chloride	20.0	14.9		ug/L		74	50 - 145
Bromomethane	20.0	18.3		ug/L		91	30 - 145
Chloroethane	20.0	17.5		ug/L		87	60 - 135
Trichlorofluoromethane	20.0	15.8		ug/L		79	60 - 145
Acrolein	119	102		ug/L		86	10 - 125
1,1-Dichloroethene	20.0	19.5		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.6		ug/L		93	63 - 160
Iodomethane	20.0	21.0		ug/L		105	43 - 157

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCS 580-169936/5**

**Matrix: Water**

**Analysis Batch: 169936**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	20.0		ug/L		100	35 - 160
Acetone	80.0	75.0		ug/L		94	40 - 140
Methylene Chloride	20.0	23.2		ug/L		116	55 - 140
Methyl tert-butyl ether	20.0	19.9		ug/L		100	65 - 125
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	60 - 140
Acrylonitrile	200	186		ug/L		93	62 - 127
1,1-Dichloroethane	20.0	20.1		ug/L		101	70 - 135
Vinyl acetate	40.1	38.2		ug/L		95	20 - 144
2,2-Dichloropropane	20.0	19.8		ug/L		99	70 - 135
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	70 - 125
2-Butanone	80.0	75.2		ug/L		94	30 - 150
Bromochloromethane	20.0	21.3		ug/L		107	65 - 130
Chloroform	20.0	20.2		ug/L		101	65 - 135
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	65 - 130
Carbon tetrachloride	20.0	18.0		ug/L		90	65 - 140
1,1-Dichloropropene	20.0	19.7		ug/L		98	75 - 130
Benzene	20.0	21.4		ug/L		107	80 - 120
1,2-Dichloroethane	20.0	19.2		ug/L		96	70 - 130
Trichloroethene	20.0	21.0		ug/L		105	70 - 125
1,2-Dichloropropane	20.0	20.8		ug/L		104	75 - 125
Dibromomethane	20.0	21.3		ug/L		107	75 - 125
Bromodichloromethane	20.0	20.0		ug/L		100	75 - 120
2-Chloroethyl vinyl ether	20.0	19.7		ug/L		99	38 - 165
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	70 - 130
4-Methyl-2-pentanone	80.0	71.8		ug/L		90	60 - 135
Toluene	20.0	20.7		ug/L		103	75 - 120
trans-1,3-Dichloropropene	20.0	20.7		ug/L		104	55 - 140
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	75 - 125
Tetrachloroethene	20.0	19.2	B	ug/L		96	45 - 150
1,3-Dichloropropane	20.0	19.6		ug/L		98	75 - 125
2-Hexanone	80.0	71.6		ug/L		90	55 - 130
Chlorodibromomethane	20.0	20.3		ug/L		102	60 - 135
1,2-Dibromoethane	20.0	20.4		ug/L		102	80 - 120
Chlorobenzene	20.0	20.1		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	20.0	20.3		ug/L		102	80 - 130
Ethylbenzene	20.0	21.0		ug/L		105	75 - 125
m-Xylene & p-Xylene	20.0	20.8		ug/L		104	75 - 130
o-Xylene	20.0	20.3		ug/L		101	80 - 120
Styrene	20.0	19.9		ug/L		100	65 - 135
Bromoform	20.0	20.1		ug/L		101	70 - 130
Isopropylbenzene	20.0	20.6		ug/L		103	75 - 125
Bromobenzene	20.0	20.0		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	65 - 130
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	75 - 125
trans-1,4-Dichloro-2-butene	20.0	17.5		ug/L		88	60 - 139
N-Propylbenzene	20.0	20.0		ug/L		100	70 - 130
2-Chlorotoluene	20.0	20.2		ug/L		101	75 - 125
4-Chlorotoluene	20.0	20.1		ug/L		101	75 - 130

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCS 580-169936/5**

**Matrix: Water**

**Analysis Batch: 169936**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	20.0	20.6		ug/L		103	75 - 130
tert-Butylbenzene	20.0	20.1		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 130
sec-Butylbenzene	20.0	19.0		ug/L		95	70 - 125
4-Isopropyltoluene	20.0	18.9		ug/L		95	75 - 130
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	75 - 125
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	75 - 125
n-Butylbenzene	20.0	19.4		ug/L		97	70 - 135
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	70 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	50 - 130
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		101	65 - 135
Hexachloro-1,3-butadiene	20.0	18.3		ug/L		92	50 - 140
Naphthalene	20.0	20.7		ug/L		103	55 - 140
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	55 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	105		70 - 136
Toluene-d8 (Surr)	102		85 - 120
1,2-Dichloroethane-d4 (Surr)	91		70 - 120
4-Bromofluorobenzene (Surr)	100		75 - 120
Dibromofluoromethane (Surr)	97		85 - 115

**Lab Sample ID: LCSD 580-169936/6**

**Matrix: Water**

**Analysis Batch: 169936**

**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
Dichlorodifluoromethane	20.0	14.6		ug/L		73	30 - 155	2	30
Chloromethane	20.0	16.4		ug/L		82	40 - 125	2	30
Vinyl chloride	20.0	14.8		ug/L		74	50 - 145	1	30
Bromomethane	20.0	18.4		ug/L		92	30 - 145	0	30
Chloroethane	20.0	18.8		ug/L		94	60 - 135	8	30
Trichlorofluoromethane	20.0	16.1		ug/L		80	60 - 145	1	30
Acrolein	119	112		ug/L		94	10 - 125	9	30
1,1-Dichloroethane	20.0	20.0		ug/L		100	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.2		ug/L		96	63 - 160	3	30
Iodomethane	20.0	21.8		ug/L		109	43 - 157	4	30
Carbon disulfide	20.0	20.5		ug/L		102	35 - 160	2	30
Acetone	80.0	86.0		ug/L		108	40 - 140	14	30
Methylene Chloride	20.0	23.5		ug/L		118	55 - 140	2	30
Methyl tert-butyl ether	20.0	21.9		ug/L		109	65 - 125	9	30
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	60 - 140	3	30
Acrylonitrile	200	205		ug/L		103	62 - 127	10	30
1,1-Dichloroethane	20.0	20.8		ug/L		104	70 - 135	3	30
Vinyl acetate	40.1	43.1		ug/L		108	20 - 144	12	30
2,2-Dichloropropane	20.0	20.4		ug/L		102	70 - 135	3	30
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	70 - 125	4	30

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCSD 580-169936/6**

**Matrix: Water**

**Analysis Batch: 169936**

**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
2-Butanone	80.0	85.1		ug/L		106	30 - 150	12	30
Bromochloromethane	20.0	22.5		ug/L		112	65 - 130	5	30
Chloroform	20.0	21.2		ug/L		106	65 - 135	5	30
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	65 - 130	2	30
Carbon tetrachloride	20.0	18.4		ug/L		92	65 - 140	3	30
1,1-Dichloropropene	20.0	20.1		ug/L		101	75 - 130	2	30
Benzene	20.0	21.9		ug/L		110	80 - 120	2	30
1,2-Dichloroethane	20.0	20.2		ug/L		101	70 - 130	5	30
Trichloroethene	20.0	21.6		ug/L		108	70 - 125	3	30
1,2-Dichloropropane	20.0	21.7		ug/L		109	75 - 125	4	30
Dibromomethane	20.0	22.4		ug/L		112	75 - 125	5	30
Bromodichloromethane	20.0	22.0		ug/L		110	75 - 120	9	30
2-Chloroethyl vinyl ether	20.0	22.9		ug/L		115	38 - 165	15	30
cis-1,3-Dichloropropene	20.0	22.9		ug/L		114	70 - 130	5	30
4-Methyl-2-pentanone	80.0	81.3		ug/L		102	60 - 135	12	30
Toluene	20.0	21.4		ug/L		107	75 - 120	3	30
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	55 - 140	7	30
1,1,2-Trichloroethane	20.0	21.3		ug/L		106	75 - 125	7	30
Tetrachloroethene	20.0	21.0		ug/L		105	45 - 150	9	30
1,3-Dichloropropane	20.0	21.0		ug/L		105	75 - 125	7	30
2-Hexanone	80.0	82.4		ug/L		103	55 - 130	14	30
Chlorodibromomethane	20.0	22.0		ug/L		110	60 - 135	8	30
1,2-Dibromoethane	20.0	22.0		ug/L		110	80 - 120	8	30
Chlorobenzene	20.0	20.8		ug/L		104	80 - 120	3	30
1,1,1,2-Tetrachloroethane	20.0	21.2		ug/L		106	80 - 130	4	30
Ethylbenzene	20.0	21.7		ug/L		108	75 - 125	3	30
m-Xylene & p-Xylene	20.0	21.4		ug/L		107	75 - 130	3	30
o-Xylene	20.0	21.0		ug/L		105	80 - 120	3	30
Styrene	20.0	20.7		ug/L		103	65 - 135	4	30
Bromoform	20.0	22.2		ug/L		111	70 - 130	10	30
Isopropylbenzene	20.0	21.1		ug/L		106	75 - 125	2	30
Bromobenzene	20.0	20.8		ug/L		104	75 - 125	4	30
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	65 - 130	9	30
1,2,3-Trichloropropane	20.0	20.8		ug/L		104	75 - 125	8	30
trans-1,4-Dichloro-2-butene	20.0	19.6		ug/L		98	60 - 139	11	30
N-Propylbenzene	20.0	20.3		ug/L		102	70 - 130	2	30
2-Chlorotoluene	20.0	20.7		ug/L		103	75 - 125	2	30
4-Chlorotoluene	20.0	20.7		ug/L		103	75 - 130	3	30
1,3,5-Trimethylbenzene	20.0	21.1		ug/L		105	75 - 130	2	30
tert-Butylbenzene	20.0	20.5		ug/L		103	70 - 130	2	30
1,2,4-Trimethylbenzene	20.0	21.0		ug/L		105	75 - 130	3	30
sec-Butylbenzene	20.0	19.5		ug/L		97	70 - 125	2	30
4-Isopropyltoluene	20.0	19.3		ug/L		96	75 - 130	2	30
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	75 - 125	3	30
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	75 - 125	4	30
n-Butylbenzene	20.0	19.8		ug/L		99	70 - 135	2	30
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	70 - 120	4	30
1,2-Dibromo-3-Chloropropane	20.0	22.0		ug/L		110	50 - 130	13	30

TestAmerica Seattle



# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: LCSD 580-169936/6

Matrix: Water

Analysis Batch: 169936

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
1,2,4-Trichlorobenzene	20.0	20.9		ug/L		105	65 - 135	4	30
Hexachloro-1,3-butadiene	20.0	18.7		ug/L		93	50 - 140	2	30
Naphthalene	20.0	23.0		ug/L		115	55 - 140	11	30
1,2,3-Trichlorobenzene	20.0	21.9		ug/L		110	55 - 140	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Trifluorotoluene (Surr)	103		70 - 136
Toluene-d8 (Surr)	102		85 - 120
1,2-Dichloroethane-d4 (Surr)	92		70 - 120
4-Bromofluorobenzene (Surr)	101		75 - 120
Dibromofluoromethane (Surr)	97		85 - 115

## Method: 8270C - 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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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
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
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
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

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 8270C - 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							
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
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
Di-n-octyl phthalate	ND		50	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
Carbazole	ND		10	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
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
2,2'-oxybis[1-chloropropane]	ND		25	1.5	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	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
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
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
2,4,6-Tribromophenol	77		28 - 143	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

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 8270C - 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
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
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
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	A	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

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 8270C - 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	
							Lower	Upper
Anthracene	100	89.4		ug/Kg		89	73 - 116	
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[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	
Carbazole	100	105		ug/Kg		105	76 - 135	
1-Methylnaphthalene	100	79.2		ug/Kg		79	62 - 118	
Benzo[b]fluoranthene	100	95.0		ug/Kg		95	63 - 132	
Benzo[k]fluoranthene	100	82.9		ug/Kg		83	63 - 119	
2,2'-oxybis[1-chloropropane]	100	75.1		ug/Kg		75	41 - 126	
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
Nitrobenzene-d5	80		38 - 141
2-Fluorobiphenyl	80		42 - 140
2,4,6-Tribromophenol	90		28 - 143
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. Limits		RPD	
							Lower	Upper	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	
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	

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 8270C - 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.		RPD	
							Limits	RPD	RPD	Limit
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	
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	
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	
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[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	

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 8270C - 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
Carbazole	100	102		ug/Kg		102	76 - 135	3	30
1-Methylnaphthalene	100	76.4		ug/Kg		76	62 - 118	4	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
2,2'-oxybis[1-chloropropane]	100	73.0		ug/Kg		73	41 - 126	3	57
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
Nitrobenzene-d5	80		38 - 141
2-Fluorobiphenyl	79		42 - 140
2,4,6-Tribromophenol	90		28 - 143
Terphenyl-d14	105		42 - 151

**Lab Sample ID: 580-45232-4 MS**

**Matrix: Solid**

**Analysis Batch: 170249**

**Client Sample ID: CS-CB-01-20140903-S**

**Prep Type: Total/NA**

**Prep Batch: 169198**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	ND		239	349	J F1	ug/Kg	☼	146	63 - 111
Bis(2-chloroethyl)ether	ND		239	444	J F1	ug/Kg	☼	186	62 - 110
2-Chlorophenol	ND		239	223	J	ug/Kg	☼	93	68 - 117
1,3-Dichlorobenzene	ND		239	156	J	ug/Kg	☼	65	64 - 111
1,4-Dichlorobenzene	ND		239	153	J F1	ug/Kg	☼	64	65 - 110
Benzyl alcohol	ND		239	348	J F1	ug/Kg	☼	146	55 - 123
1,2-Dichlorobenzene	ND		239	167	J	ug/Kg	☼	70	64 - 112
2-Methylphenol	ND		239	299	J F1	ug/Kg	☼	125	71 - 116
3 & 4 Methylphenol	460	J	239	1690	F1	ug/Kg	☼	512	70 - 116
N-Nitrosodi-n-propylamine	ND		239	185	J	ug/Kg	☼	78	62 - 116
Hexachloroethane	ND		239	144	J F1	ug/Kg	☼	60	62 - 120
Nitrobenzene	ND		239	163	J	ug/Kg	☼	68	64 - 118
Isophorone	ND		239	233	J	ug/Kg	☼	98	67 - 119
2-Nitrophenol	ND		239	244	J	ug/Kg	☼	102	67 - 127
2,4-Dimethylphenol	ND		239	213	J	ug/Kg	☼	89	54 - 139
Benzoic acid	ND		477	ND		ug/Kg	☼	NC	29 - 158
Bis(2-chloroethoxy)methane	ND		239	201	J	ug/Kg	☼	84	69 - 107
2,4-Dichlorophenol	ND		239	191	J	ug/Kg	☼	80	68 - 125
1,2,4-Trichlorobenzene	ND		239	161	J	ug/Kg	☼	67	66 - 115
Naphthalene	39	J	239	213		ug/Kg	☼	73	62 - 112
4-Chloroaniline	ND		239	97.6	J	ug/Kg	☼	41	20 - 103
Hexachlorobutadiene	ND		239	169	J	ug/Kg	☼	71	65 - 116
4-Chloro-3-methylphenol	ND		239	207	J	ug/Kg	☼	87	69 - 121
2-Methylnaphthalene	49	J	239	329		ug/Kg	☼	117	64 - 119
Hexachlorocyclopentadiene	ND		239	ND	F1	ug/Kg	☼	0	46 - 131
2,4,6-Trichlorophenol	ND		239	196	J	ug/Kg	☼	82	62 - 133
2,4,5-Trichlorophenol	ND		239	157	J	ug/Kg	☼	66	57 - 133
2-Chloronaphthalene	ND		239	185		ug/Kg	☼	78	68 - 112

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: 580-45232-4 MS

Matrix: Solid

Analysis Batch: 170249

Client Sample ID: CS-CB-01-20140903-S

Prep Type: Total/NA

Prep Batch: 169198

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
2-Nitroaniline	ND		239	214	J	ug/Kg	*	90	64 - 112
Dimethyl phthalate	ND		239	234	J	ug/Kg	*	98	78 - 117
Acenaphthylene	ND		239	225		ug/Kg	*	94	68 - 120
2,6-Dinitrotoluene	ND		239	207	J	ug/Kg	*	87	66 - 123
3-Nitroaniline	ND		239	193	J	ug/Kg	*	81	27 - 103
Acenaphthene	ND		239	264		ug/Kg	*	111	68 - 116
2,4-Dinitrophenol	ND		477	ND		ug/Kg	*	NC	20 - 141
4-Nitrophenol	ND		477	1800	J	ug/Kg	*	NC	20 - 165
Dibenzofuran	ND		239	188	J	ug/Kg	*	79	72 - 109
2,4-Dinitrotoluene	ND		239	279	J	ug/Kg	*	117	68 - 121
Diethyl phthalate	170	J B	239	461	J F1	ug/Kg	*	122	73 - 116
4-Chlorophenyl phenyl ether	ND		239	138	J F1	ug/Kg	*	58	75 - 108
Fluorene	94		239	416	F1	ug/Kg	*	135	70 - 121
4-Nitroaniline	ND		239	117	J F1	ug/Kg	*	49	58 - 108
4,6-Dinitro-2-methylphenol	ND		477	ND		ug/Kg	*	NC	48 - 130
N-Nitrosodiphenylamine	ND		239	1260	F1	ug/Kg	*	529	73 - 115
4-Bromophenyl phenyl ether	ND		239	212	J	ug/Kg	*	89	68 - 122
Hexachlorobenzene	ND		239	152	J F1	ug/Kg	*	64	66 - 117
Pentachlorophenol	ND		477	705	J F1	ug/Kg	*	148	45 - 117
Phenanthrene	240		239	919	F1	ug/Kg	*	284	73 - 106
Anthracene	ND		239	967	F1	ug/Kg	*	405	73 - 116
Di-n-butyl phthalate	410	J	239	1310	J F1	ug/Kg	*	376	66 - 140
Fluoranthene	220		239	817	F1	ug/Kg	*	251	73 - 125
Pyrene	420		239	1510	F1	ug/Kg	*	457	70 - 120
Butyl benzyl phthalate	1400		239	2120	4	ug/Kg	*	281	69 - 142
3,3'-Dichlorobenzidine	ND		477	ND	F1	ug/Kg	*	0	20 - 103
Benzo[a]anthracene	ND		239	387	F1	ug/Kg	*	162	76 - 119
Chrysene	ND		239	693	F1	ug/Kg	*	290	75 - 114
Bis(2-ethylhexyl) phthalate	32000	B	239	52900	E 4	ug/Kg	*	8862	62 - 144
Di-n-octyl phthalate	ND		239	2410	F1	ug/Kg	*	1011	65 - 141
Benzo[a]pyrene	ND		239	494	F1	ug/Kg	*	207	72 - 117
Indeno[1,2,3-cd]pyrene	ND		239	154	J	ug/Kg	*	64	56 - 127
Dibenz(a,h)anthracene	ND		239	50.3	J F1	ug/Kg	*	21	56 - 134
Benzo[g,h,i]perylene	ND		239	482	F1	ug/Kg	*	202	55 - 139
Carbazole	ND		239	179	J F1	ug/Kg	*	75	76 - 135
1-Methylnaphthalene	35	J	239	318		ug/Kg	*	118	62 - 118
Benzo[b]fluoranthene	ND		239	458	F1	ug/Kg	*	192	63 - 132
Benzo[k]fluoranthene	ND		239	324	F1	ug/Kg	*	136	63 - 119
2,2'-oxybis[1-chloropropane]	ND		239	202	J	ug/Kg	*	85	41 - 126
N-Nitrosodimethylamine	ND		239	ND		ug/Kg	*	NC	38 - 133

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	87		36 - 145
Phenol-d5	81		38 - 149
Nitrobenzene-d5	66		38 - 141
2-Fluorobiphenyl	70		42 - 140
2,4,6-Tribromophenol	89		28 - 143
Terphenyl-d14	101		42 - 151

TestAmerica Seattle



# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-4 MSD**

**Matrix: Solid**

**Analysis Batch: 170249**

**Client Sample ID: CS-CB-01-20140903-S**

**Prep Type: Total/NA**

**Prep Batch: 169198**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result			Result							
Phenol	ND		238	251	J F2	ug/Kg	☼	105	63 - 111	33	26
Bis(2-chloroethyl)ether	ND		238	325	J F1	ug/Kg	☼	137	62 - 110	31	60
2-Chlorophenol	ND		238	190	J	ug/Kg	☼	80	68 - 117	16	27
1,3-Dichlorobenzene	ND		238	193	J	ug/Kg	☼	81	64 - 111	21	60
1,4-Dichlorobenzene	ND		238	163	J	ug/Kg	☼	69	65 - 110	6	32
Benzyl alcohol	ND		238	351	J F1	ug/Kg	☼	147	55 - 123	1	60
1,2-Dichlorobenzene	ND		238	151	J	ug/Kg	☼	64	64 - 112	10	60
2-Methylphenol	ND		238	224	J F2	ug/Kg	☼	94	71 - 116	29	25
3 & 4 Methylphenol	460	J	238	1070	F1 F2	ug/Kg	☼	256	70 - 116	44	27
N-Nitrosodi-n-propylamine	ND		238	227	J	ug/Kg	☼	95	62 - 116	20	28
Hexachloroethane	ND		238	119	J F1	ug/Kg	☼	50	62 - 120	19	60
Nitrobenzene	ND		238	177	J	ug/Kg	☼	74	64 - 118	8	60
Isophorone	ND		238	229	J	ug/Kg	☼	96	67 - 119	2	60
2-Nitrophenol	ND		238	242	J	ug/Kg	☼	102	67 - 127	1	60
2,4-Dimethylphenol	ND		238	270	J	ug/Kg	☼	114	54 - 139	24	60
Benzoic acid	ND		476	ND		ug/Kg	☼	NC	29 - 158	NC	60
Bis(2-chloroethoxy)methane	ND		238	200	J	ug/Kg	☼	84	69 - 107	0	60
2,4-Dichlorophenol	ND		238	195	J	ug/Kg	☼	82	68 - 125	2	60
1,2,4-Trichlorobenzene	ND		238	204	J	ug/Kg	☼	86	66 - 115	24	28
Naphthalene	39	J	238	215		ug/Kg	☼	74	62 - 112	1	26
4-Chloroaniline	ND		238	ND	F1	ug/Kg	☼	0	20 - 103	NC	60
Hexachlorobutadiene	ND		238	181	J	ug/Kg	☼	76	65 - 116	7	60
4-Chloro-3-methylphenol	ND		238	206	J	ug/Kg	☼	87	69 - 121	0	27
2-Methylnaphthalene	49	J	238	285		ug/Kg	☼	99	64 - 119	15	27
Hexachlorocyclopentadiene	ND		238	ND	F1	ug/Kg	☼	0	46 - 131	NC	60
2,4,6-Trichlorophenol	ND		238	202	J	ug/Kg	☼	85	62 - 133	3	60
2,4,5-Trichlorophenol	ND		238	197	J	ug/Kg	☼	83	57 - 133	22	60
2-Chloronaphthalene	ND		238	189		ug/Kg	☼	79	68 - 112	2	25
2-Nitroaniline	ND		238	238	J	ug/Kg	☼	100	64 - 112	10	60
Dimethyl phthalate	ND		238	308	J F1	ug/Kg	☼	129	78 - 117	27	60
Acenaphthylene	ND		238	231		ug/Kg	☼	97	68 - 120	3	28
2,6-Dinitrotoluene	ND		238	232	J	ug/Kg	☼	97	66 - 123	11	60
3-Nitroaniline	ND		238	236	J	ug/Kg	☼	99	27 - 103	20	60
Acenaphthene	ND		238	252		ug/Kg	☼	106	68 - 116	5	27
2,4-Dinitrophenol	ND		476	ND		ug/Kg	☼	NC	20 - 141	NC	60
4-Nitrophenol	ND		476	ND		ug/Kg	☼	NC	20 - 165	NC	33
Dibenzofuran	ND		238	206	J	ug/Kg	☼	87	72 - 109	9	60
2,4-Dinitrotoluene	ND		238	218	J	ug/Kg	☼	92	68 - 121	24	31
Diethyl phthalate	170	J B	238	376	J	ug/Kg	☼	86	73 - 116	20	26
4-Chlorophenyl phenyl ether	ND		238	172	J F1	ug/Kg	☼	72	75 - 108	22	60
Fluorene	94		238	320		ug/Kg	☼	95	70 - 121	26	31
4-Nitroaniline	ND		238	201	J	ug/Kg	☼	85	58 - 108	53	60
4,6-Dinitro-2-methylphenol	ND		476	ND		ug/Kg	☼	NC	48 - 130	NC	60
N-Nitrosodiphenylamine	ND		238	746	F1	ug/Kg	☼	314	73 - 115	52	60
4-Bromophenyl phenyl ether	ND		238	211	J	ug/Kg	☼	89	68 - 122	1	60
Hexachlorobenzene	ND		238	205	J	ug/Kg	☼	86	66 - 117	29	60
Pentachlorophenol	ND		476	731	J F1	ug/Kg	☼	154	45 - 117	4	68
Phenanthrene	240		238	646	F1 F2	ug/Kg	☼	170	73 - 106	35	28

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-4 MSD**

**Matrix: Solid**

**Analysis Batch: 170249**

**Client Sample ID: CS-CB-01-20140903-S**

**Prep Type: Total/NA**

**Prep Batch: 169198**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Anthracene	ND		238	273	F2	ug/Kg	*	115	73 - 116	112	27
Di-n-butyl phthalate	410	J	238	834	J F1	ug/Kg	*	178	66 - 140	44	60
Fluoranthene	220		238	601	F1	ug/Kg	*	161	73 - 125	30	36
Pyrene	420		238	994	F1 F2	ug/Kg	*	242	70 - 120	41	31
Butyl benzyl phthalate	1400		238	1710	4	ug/Kg	*	112	69 - 142	21	60
3,3'-Dichlorobenzidine	ND		476	140	J F1	ug/Kg	*	0	20 - 103	NC	60
Benzo[a]anthracene	ND		238	293	F1 F2	ug/Kg	*	123	76 - 119	28	27
Chrysene	ND		238	449	F1 F2	ug/Kg	*	189	75 - 114	43	26
Bis(2-ethylhexyl) phthalate	32000	B	238	44300	4	ug/Kg	*	5313	62 - 144	18	60
Di-n-octyl phthalate	ND		238	1510	J F1 F2	ug/Kg	*	637	65 - 141	46	31
Benzo[a]pyrene	ND		238	248	F2	ug/Kg	*	104	72 - 117	66	30
Indeno[1,2,3-cd]pyrene	ND		238	251	F2	ug/Kg	*	106	56 - 127	48	29
Dibenz(a,h)anthracene	ND		238	61.2	J F1	ug/Kg	*	26	56 - 134	20	30
Benzo[g,h,i]perylene	ND		238	358	F1 F2	ug/Kg	*	151	55 - 139	29	28
Carbazole	ND		238	111	J F1	ug/Kg	*	47	76 - 135	47	60
1-Methylnaphthalene	35	J	238	246		ug/Kg	*	89	62 - 118	25	30
Benzo[b]fluoranthene	ND		238	360	F1	ug/Kg	*	151	63 - 132	24	31
Benzo[k]fluoranthene	ND		238	248		ug/Kg	*	104	63 - 119	27	31
2,2'-oxybis[1-chloropropane]	ND		238	228	J	ug/Kg	*	96	41 - 126	12	60
N-Nitrosodimethylamine	ND		238	ND		ug/Kg	*	NC	38 - 133	NC	60

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	61		36 - 145
Phenol-d5	71		38 - 149
Nitrobenzene-d5	88		38 - 141
2-Fluorobiphenyl	62		42 - 140
2,4,6-Tribromophenol	72		28 - 143
Terphenyl-d14	85		42 - 151

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

**Lab Sample ID: MB 580-168914/1-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	ND		0.60	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Bis(2-chloroethyl)ether	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2-Chlorophenol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
1,3-Dichlorobenzene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
1,4-Dichlorobenzene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzyl alcohol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
1,2-Dichlorobenzene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2-Methylphenol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,2'-oxybis[1-chloropropane]	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
3 & 4 Methylphenol	ND		0.80	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
N-Nitrosodi-n-propylamine	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Hexachloroethane	ND		0.60	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: MB 580-168914/1-A

Matrix: Water

Analysis Batch: 169546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 168914

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrobenzene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Isophorone	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2-Nitrophenol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,4-Dimethylphenol	ND		2.0	0.30	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzoic acid	ND		3.0	0.60	ug/L		09/05/14 10:14	09/12/14 11:51	1
Bis(2-chloroethoxy)methane	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,4-Dichlorophenol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
1,2,4-Trichlorobenzene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Naphthalene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
4-Chloroaniline	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Hexachlorobutadiene	ND		0.60	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
4-Chloro-3-methylphenol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
1-Methylnaphthalene	ND		0.060	0.030	ug/L		09/05/14 10:14	09/12/14 11:51	1
Hexachlorocyclopentadiene	ND		2.0	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2-Chloronaphthalene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
2-Nitroaniline	ND	^	0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Dimethyl phthalate	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Acenaphthylene	ND		0.080	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,6-Dinitrotoluene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
3-Nitroaniline	ND		0.40	0.12	ug/L		09/05/14 10:14	09/12/14 11:51	1
Acenaphthene	ND		0.10	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,4-Dinitrophenol	ND		5.0	1.0	ug/L		09/05/14 10:14	09/12/14 11:51	1
4-Nitrophenol	ND		3.0	1.0	ug/L		09/05/14 10:14	09/12/14 11:51	1
Dibenzofuran	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
2,4-Dinitrotoluene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Diethyl phthalate	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
4-Chlorophenyl phenyl ether	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Fluorene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
4-Nitroaniline	ND		0.60	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
4,6-Dinitro-2-methylphenol	ND	^	4.0	1.0	ug/L		09/05/14 10:14	09/12/14 11:51	1
N-Nitrosodiphenylamine	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
4-Bromophenyl phenyl ether	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Hexachlorobenzene	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Pentachlorophenol	ND		0.70	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Phenanthrene	ND		0.080	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Anthracene	ND		0.040	0.010	ug/L		09/05/14 10:14	09/12/14 11:51	1
Carbazole	ND		0.40	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Di-n-butyl phthalate	ND		0.40	0.13	ug/L		09/05/14 10:14	09/12/14 11:51	1
Fluoranthene	ND		0.050	0.013	ug/L		09/05/14 10:14	09/12/14 11:51	1
Pyrene	ND		0.060	0.013	ug/L		09/05/14 10:14	09/12/14 11:51	1
Butyl benzyl phthalate	ND	^	0.60	0.20	ug/L		09/05/14 10:14	09/12/14 11:51	1
3,3'-Dichlorobenzidine	ND		2.0	0.10	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzo[a]anthracene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Chrysene	ND		0.040	0.013	ug/L		09/05/14 10:14	09/12/14 11:51	1
Bis(2-ethylhexyl) phthalate	ND		3.0	1.2	ug/L		09/05/14 10:14	09/12/14 11:51	1

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: MB 580-168914/1-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzo[b]fluoranthene	ND		0.080	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzo[k]fluoranthene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Indeno[1,2,3-cd]pyrene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Dibenz(a,h)anthracene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
Benzo[g,h,i]perylene	ND		0.060	0.020	ug/L		09/05/14 10:14	09/12/14 11:51	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		09/05/14 10:14	09/12/14 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	70		30 - 134	09/05/14 10:14	09/12/14 11:51	1
Phenol-d5	79		52 - 120	09/05/14 10:14	09/12/14 11:51	1
2,4,6-Tribromophenol	93		44 - 125	09/05/14 10:14	09/12/14 11:51	1
Nitrobenzene-d5	98		59 - 120	09/05/14 10:14	09/12/14 11:51	1
2-Fluorobiphenyl	80		50 - 120	09/05/14 10:14	09/12/14 11:51	1
Terphenyl-d14	105		64 - 150	09/05/14 10:14	09/12/14 11:51	1

**Lab Sample ID: LCS 580-168914/2-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	2.00	1.56		ug/L		78	53 - 130
Bis(2-chloroethyl)ether	2.00	1.61		ug/L		80	55 - 125
2-Chlorophenol	2.00	1.76		ug/L		88	57 - 125
1,3-Dichlorobenzene	2.00	1.60		ug/L		80	40 - 125
1,4-Dichlorobenzene	2.00	1.55		ug/L		78	40 - 125
Benzyl alcohol	2.00	1.68		ug/L		84	41 - 144
1,2-Dichlorobenzene	2.00	1.62		ug/L		81	44 - 125
2-Methylphenol	2.00	1.48		ug/L		74	60 - 130
2,2'-oxybis[1-chloropropane]	2.00	1.99		ug/L		99	44 - 130
3 & 4 Methylphenol	2.00	1.75		ug/L		87	60 - 130
N-Nitrosodi-n-propylamine	2.00	1.78		ug/L		89	60 - 120
Hexachloroethane	2.00	1.55		ug/L		78	30 - 125
Nitrobenzene	2.00	1.80		ug/L		90	62 - 125
Isophorone	2.00	1.83		ug/L		92	64 - 125
2-Nitrophenol	2.00	1.82		ug/L		91	55 - 140
2,4-Dimethylphenol	2.00	0.540	J *	ug/L		27	30 - 135
Benzoic acid	4.00	4.78		ug/L		120	20 - 144
Bis(2-chloroethoxy)methane	2.00	1.65		ug/L		82	59 - 125
2,4-Dichlorophenol	2.00	1.88		ug/L		94	50 - 140
1,2,4-Trichlorobenzene	2.00	1.55		ug/L		77	40 - 125
Naphthalene	2.00	1.68		ug/L		84	56 - 125
4-Chloroaniline	2.00	0.139	J *	ug/L		7	20 - 150
Hexachlorobutadiene	2.00	1.34		ug/L		67	25 - 125
4-Chloro-3-methylphenol	2.00	1.87		ug/L		94	65 - 145
2-Methylnaphthalene	2.00	1.73		ug/L		87	56 - 125
1-Methylnaphthalene	2.00	1.75		ug/L		88	54 - 125

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCS 580-168914/2-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	2.00	1.34	J	ug/L		67	20 - 125
2,4,6-Trichlorophenol	2.00	1.63		ug/L		82	55 - 140
2,4,5-Trichlorophenol	2.00	1.73		ug/L		87	66 - 130
2-Chloronaphthalene	2.00	1.79		ug/L		89	55 - 125
2-Nitroaniline	2.00	2.20	^	ug/L		110	52 - 140
Dimethyl phthalate	2.00	1.92		ug/L		96	65 - 155
Acenaphthylene	2.00	1.79		ug/L		90	62 - 125
2,6-Dinitrotoluene	2.00	2.03		ug/L		101	67 - 134
3-Nitroaniline	2.00	1.20		ug/L		60	22 - 124
Acenaphthene	2.00	1.84		ug/L		92	63 - 125
2,4-Dinitrophenol	4.00	4.99	J	ug/L		125	24 - 146
4-Nitrophenol	4.00	4.01		ug/L		100	35 - 153
Dibenzofuran	2.00	1.78		ug/L		89	60 - 125
2,4-Dinitrotoluene	2.00	2.14		ug/L		107	73 - 126
Diethyl phthalate	2.00	1.65		ug/L		83	60 - 150
4-Chlorophenyl phenyl ether	2.00	1.80		ug/L		90	59 - 125
Fluorene	2.00	1.92		ug/L		96	69 - 125
4-Nitroaniline	2.00	1.58		ug/L		79	49 - 125
4,6-Dinitro-2-methylphenol	4.00	4.61	^	ug/L		115	50 - 136
N-Nitrosodiphenylamine	2.00	1.42		ug/L		71	40 - 135
4-Bromophenyl phenyl ether	2.00	1.90		ug/L		95	62 - 132
Hexachlorobenzene	2.00	1.76		ug/L		88	61 - 125
Pentachlorophenol	4.00	3.36		ug/L		84	20 - 145
Phenanthrene	2.00	1.88		ug/L		94	70 - 125
Anthracene	2.00	1.41		ug/L		70	50 - 125
Carbazole	2.00	2.14		ug/L		107	75 - 142
Di-n-butyl phthalate	2.00	2.18		ug/L		109	55 - 167
Fluoranthene	2.00	1.95		ug/L		98	70 - 145
Pyrene	2.00	1.81		ug/L		90	70 - 133
Butyl benzyl phthalate	2.00	2.65	^	ug/L		132	60 - 167
3,3'-Dichlorobenzidine	4.00	0.489	J *	ug/L		12	20 - 175
Benzo[a]anthracene	2.00	1.78		ug/L		89	65 - 125
Chrysene	2.00	1.89		ug/L		94	70 - 125
Bis(2-ethylhexyl) phthalate	2.00	2.49	J	ug/L		124	70 - 185
Di-n-octyl phthalate	2.00	2.36		ug/L		118	55 - 150
Benzo[b]fluoranthene	2.00	2.22		ug/L		111	70 - 129
Benzo[k]fluoranthene	2.00	1.87		ug/L		93	70 - 123
Benzo[a]pyrene	2.00	1.37		ug/L		68	45 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.44		ug/L		122	70 - 136
Dibenz(a,h)anthracene	2.00	2.05		ug/L		103	69 - 154
Benzo[g,h,i]perylene	2.00	1.90		ug/L		95	65 - 153
N-Nitrosodimethylamine	2.00	1.63	J	ug/L		82	33 - 143

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	71		30 - 134
Phenol-d5	84		52 - 120
2,4,6-Tribromophenol	102		44 - 125
Nitrobenzene-d5	97		59 - 120

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCS 580-168914/2-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	84		50 - 120
Terphenyl-d14	104		64 - 150

**Lab Sample ID: LCSD 580-168914/3-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Phenol	2.00	1.43		ug/L		71	53 - 130	9	20	
Bis(2-chloroethyl)ether	2.00	1.58		ug/L		79	55 - 125	2	20	
2-Chlorophenol	2.00	1.73		ug/L		86	57 - 125	2	20	
1,3-Dichlorobenzene	2.00	1.46		ug/L		73	40 - 125	9	20	
1,4-Dichlorobenzene	2.00	1.41		ug/L		70	40 - 125	10	20	
Benzyl alcohol	2.00	1.26	*	ug/L		63	41 - 144	28	20	
1,2-Dichlorobenzene	2.00	1.54		ug/L		77	44 - 125	5	20	
2-Methylphenol	2.00	1.75		ug/L		88	60 - 130	16	20	
2,2'-oxybis[1-chloropropane]	2.00	1.97		ug/L		99	44 - 130	1	20	
3 & 4 Methylphenol	2.00	1.67		ug/L		83	60 - 130	5	20	
N-Nitrosodi-n-propylamine	2.00	1.62		ug/L		81	60 - 120	10	20	
Hexachloroethane	2.00	1.52		ug/L		76	30 - 125	2	20	
Nitrobenzene	2.00	1.93		ug/L		97	62 - 125	7	20	
Isophorone	2.00	1.80		ug/L		90	64 - 125	2	20	
2-Nitrophenol	2.00	1.88		ug/L		94	55 - 140	3	20	
2,4-Dimethylphenol	2.00	1.11	J *	ug/L		55	30 - 135	69	20	
Benzoic acid	4.00	4.82		ug/L		120	20 - 144	1	20	
Bis(2-chloroethoxy)methane	2.00	1.64		ug/L		82	59 - 125	1	20	
2,4-Dichlorophenol	2.00	1.81		ug/L		90	50 - 140	4	20	
1,2,4-Trichlorobenzene	2.00	1.52		ug/L		76	40 - 125	2	20	
Naphthalene	2.00	1.60		ug/L		80	56 - 125	5	20	
4-Chloroaniline	2.00	0.246	J *	ug/L		12	20 - 150	56	20	
Hexachlorobutadiene	2.00	1.35		ug/L		68	25 - 125	1	20	
4-Chloro-3-methylphenol	2.00	1.90		ug/L		95	65 - 145	2	20	
2-Methylnaphthalene	2.00	1.68		ug/L		84	56 - 125	3	20	
1-Methylnaphthalene	2.00	1.69		ug/L		85	54 - 125	4	20	
Hexachlorocyclopentadiene	2.00	1.14	J	ug/L		57	20 - 125	16	20	
2,4,6-Trichlorophenol	2.00	1.70		ug/L		85	55 - 140	4	20	
2,4,5-Trichlorophenol	2.00	1.77		ug/L		88	66 - 130	2	20	
2-Chloronaphthalene	2.00	1.64		ug/L		82	55 - 125	8	20	
2-Nitroaniline	2.00	2.20	^	ug/L		110	52 - 140	0	20	
Dimethyl phthalate	2.00	1.87		ug/L		94	65 - 155	2	20	
Acenaphthylene	2.00	1.62		ug/L		81	62 - 125	10	20	
2,6-Dinitrotoluene	2.00	1.94		ug/L		97	67 - 134	4	20	
3-Nitroaniline	2.00	1.34		ug/L		67	22 - 124	11	20	
Acenaphthene	2.00	1.74		ug/L		87	63 - 125	6	20	
2,4-Dinitrophenol	4.00	4.67	J	ug/L		117	24 - 146	7	20	
4-Nitrophenol	4.00	4.12		ug/L		103	35 - 153	3	20	
Dibenzofuran	2.00	1.75		ug/L		87	60 - 125	2	20	
2,4-Dinitrotoluene	2.00	2.15		ug/L		107	73 - 126	1	20	

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCSD 580-168914/3-A**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Diethyl phthalate	2.00	1.61		ug/L		80	60 - 150	3	20	
4-Chlorophenyl phenyl ether	2.00	1.68		ug/L		84	59 - 125	7	20	
Fluorene	2.00	1.89		ug/L		94	69 - 125	2	20	
4-Nitroaniline	2.00	1.74		ug/L		87	49 - 125	10	20	
4,6-Dinitro-2-methylphenol	4.00	4.44	^	ug/L		111	50 - 136	4	20	
N-Nitrosodiphenylamine	2.00	1.66		ug/L		83	40 - 135	16	20	
4-Bromophenyl phenyl ether	2.00	1.91		ug/L		95	62 - 132	1	20	
Hexachlorobenzene	2.00	1.66		ug/L		83	61 - 125	6	20	
Pentachlorophenol	4.00	3.18		ug/L		80	20 - 145	5	20	
Phenanthrene	2.00	1.89		ug/L		94	70 - 125	1	20	
Anthracene	2.00	1.51		ug/L		75	50 - 125	7	20	
Carbazole	2.00	2.11		ug/L		105	75 - 142	2	20	
Di-n-butyl phthalate	2.00	2.15		ug/L		107	55 - 167	1	20	
Fluoranthene	2.00	1.99		ug/L		99	70 - 145	2	20	
Pyrene	2.00	1.90		ug/L		95	70 - 133	5	20	
Butyl benzyl phthalate	2.00	2.55	^	ug/L		128	60 - 167	4	20	
3,3'-Dichlorobenzidine	4.00	1.33	J *	ug/L		33	20 - 175	93	20	
Benzo[a]anthracene	2.00	1.79		ug/L		90	65 - 125	0	20	
Chrysene	2.00	1.93		ug/L		96	70 - 125	2	20	
Bis(2-ethylhexyl) phthalate	2.00	2.21	J	ug/L		111	70 - 185	12	20	
Di-n-octyl phthalate	2.00	2.29		ug/L		114	55 - 150	3	20	
Benzo[b]fluoranthene	2.00	2.05		ug/L		103	70 - 129	8	20	
Benzo[k]fluoranthene	2.00	1.91		ug/L		96	70 - 123	2	20	
Benzo[a]pyrene	2.00	1.41		ug/L		70	45 - 125	3	20	
Indeno[1,2,3-cd]pyrene	2.00	2.47		ug/L		123	70 - 136	1	20	
Dibenz(a,h)anthracene	2.00	2.07		ug/L		103	69 - 154	1	20	
Benzo[g,h,i]perylene	2.00	1.86		ug/L		93	65 - 153	2	20	
N-Nitrosodimethylamine	2.00	1.53	J	ug/L		76	33 - 143	6	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	67		30 - 134
Phenol-d5	76		52 - 120
2,4,6-Tribromophenol	99		44 - 125
Nitrobenzene-d5	101		59 - 120
2-Fluorobiphenyl	79		50 - 120
Terphenyl-d14	104		64 - 150

**Lab Sample ID: 580-45232-1 MS**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: QC-EB-01-20140903-W**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Phenol	3.1		1.95	4.32	F1	ug/L		60	65 - 130	
Bis(2-chloroethyl)ether	ND		1.95	1.52		ug/L		78	65 - 125	
2-Chlorophenol	ND		1.95	1.69		ug/L		87	60 - 130	
1,3-Dichlorobenzene	ND		1.95	1.48		ug/L		76	40 - 125	
1,4-Dichlorobenzene	ND		1.95	1.49		ug/L		76	40 - 125	
Benzyl alcohol	1.5	*	1.95	2.58	F1	ug/L		56	65 - 125	

TestAmerica Seattle



# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-1 MS**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: QC-EB-01-20140903-W**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dichlorobenzene	ND		1.95	1.58		ug/L		81	45 - 125
2-Methylphenol	0.17	J	1.95	1.31	F1	ug/L		59	70 - 130
2,2'-oxybis[1-chloropropane]	ND		1.95	1.93		ug/L		99	65 - 125
3 & 4 Methylphenol	0.47	J	1.95	1.72	F1	ug/L		64	65 - 130
N-Nitrosodi-n-propylamine	ND		1.95	1.76		ug/L		90	70 - 130
Hexachloroethane	ND		1.95	1.52		ug/L		78	30 - 125
Nitrobenzene	ND		1.95	1.83		ug/L		94	70 - 125
Isophorone	0.15	J	1.95	1.78		ug/L		84	75 - 125
2-Nitrophenol	0.12	J	1.95	1.90		ug/L		92	55 - 140
2,4-Dimethylphenol	ND	*	1.95	0.320	J F1	ug/L		16	30 - 135
Benzoic acid	14		3.90	14.1	F1	ug/L		-5	20 - 140
Bis(2-chloroethoxy)methane	ND		1.95	1.56		ug/L		80	75 - 125
2,4-Dichlorophenol	ND		1.95	1.72		ug/L		88	50 - 140
1,2,4-Trichlorobenzene	ND		1.95	1.51		ug/L		77	40 - 125
Naphthalene	0.14	J	1.95	1.70		ug/L		80	60 - 125
4-Chloroaniline	ND	*	1.95	0.0979	J F1	ug/L		5	35 - 175
Hexachlorobutadiene	ND		1.95	1.40		ug/L		72	25 - 125
4-Chloro-3-methylphenol	0.22	J	1.95	2.07		ug/L		95	65 - 145
2-Methylnaphthalene	0.046	J	1.95	1.69		ug/L		84	60 - 125
1-Methylnaphthalene	ND		1.95	1.68		ug/L		86	60 - 125
Hexachlorocyclopentadiene	ND		1.95	1.26	J	ug/L		65	20 - 125
2,4,6-Trichlorophenol	ND		1.95	1.72		ug/L		88	55 - 140
2,4,5-Trichlorophenol	ND		1.95	1.69		ug/L		87	75 - 125
2-Chloronaphthalene	ND		1.95	1.64		ug/L		84	60 - 125
2-Nitroaniline	ND	^	1.95	2.67	^	ug/L		137	75 - 140
Dimethyl phthalate	1.8		1.95	2.95	F1	ug/L		59	65 - 155
Acenaphthylene	ND		1.95	1.74		ug/L		89	65 - 125
2,6-Dinitrotoluene	1.3		1.95	2.90		ug/L		83	75 - 125
3-Nitroaniline	ND		1.95	0.588	F1	ug/L		30	75 - 140
Acenaphthene	ND		1.95	1.75		ug/L		89	65 - 125
2,4-Dinitrophenol	ND		3.90	5.26	F1	ug/L		135	50 - 130
4-Nitrophenol	ND		3.90	4.52		ug/L		116	35 - 145
Dibenzofuran	ND		1.95	1.73		ug/L		89	60 - 125
2,4-Dinitrotoluene	ND		1.95	2.26		ug/L		116	75 - 125
Diethyl phthalate	11		1.95	9.08	4	ug/L		-114	60 - 150
4-Chlorophenyl phenyl ether	ND		1.95	1.76		ug/L		90	70 - 125
Fluorene	0.033	J	1.95	1.89		ug/L		95	70 - 125
4-Nitroaniline	ND		1.95	1.00	F1	ug/L		52	70 - 125
4,6-Dinitro-2-methylphenol	ND	^	3.90	4.76	^	ug/L		122	50 - 125
N-Nitrosodiphenylamine	ND		1.95	1.48		ug/L		76	40 - 135
4-Bromophenyl phenyl ether	ND		1.95	1.90		ug/L		97	75 - 125
Hexachlorobenzene	ND		1.95	1.68		ug/L		86	70 - 125
Pentachlorophenol	0.21	J	3.90	3.38		ug/L		81	20 - 145
Phenanthrene	0.032	J	1.95	1.84		ug/L		92	75 - 125
Anthracene	ND		1.95	1.42		ug/L		73	50 - 125
Carbazole	ND		1.95	2.21		ug/L		113	75 - 125
Di-n-butyl phthalate	1.3		1.95	2.91		ug/L		85	55 - 155
Fluoranthene	ND		1.95	1.94		ug/L		100	70 - 125

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-1 MS**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: QC-EB-01-20140903-W**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Pyrene	0.013	J	1.95	1.82		ug/L		93	70 - 125
Butyl benzyl phthalate	0.23	J ^	1.95	2.52	^	ug/L		118	60 - 150
3,3'-Dichlorobenzidine	ND	*	3.90	0.0971	J F1	ug/L		2	20 - 175
Benzo[a]anthracene	ND		1.95	1.73		ug/L		89	65 - 125
Chrysene	ND		1.95	1.75		ug/L		90	70 - 125
Bis(2-ethylhexyl) phthalate	1.8	J	1.95	2.54	J	ug/L		37	20 - 175
Di-n-octyl phthalate	ND		1.95	2.48		ug/L		127	55 - 150
Benzo[b]fluoranthene	ND		1.95	2.00		ug/L		103	70 - 125
Benzo[k]fluoranthene	ND		1.95	1.89		ug/L		97	70 - 125
Benzo[a]pyrene	ND		1.95	1.35		ug/L		69	45 - 125
Indeno[1,2,3-cd]pyrene	ND		1.95	2.53	F1	ug/L		130	75 - 125
Dibenz(a,h)anthracene	ND		1.95	2.08		ug/L		107	75 - 130
Benzo[g,h,i]perylene	ND		1.95	1.91		ug/L		98	75 - 125
N-Nitrosodimethylamine	ND		1.95	1.44	J	ug/L		74	45 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol	67		30 - 134
Phenol-d5	76		52 - 120
2,4,6-Tribromophenol	100		44 - 125
Nitrobenzene-d5	92		59 - 120
2-Fluorobiphenyl	80		50 - 120
Terphenyl-d14	104		64 - 150

**Lab Sample ID: 580-45232-1 MSD**

**Matrix: Water**

**Analysis Batch: 169546**

**Client Sample ID: QC-EB-01-20140903-W**

**Prep Type: Total/NA**

**Prep Batch: 168914**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Phenol	3.1		1.93	4.29	F1	ug/L		59	65 - 130	1	20
Bis(2-chloroethyl)ether	ND		1.93	1.60		ug/L		83	65 - 125	5	20
2-Chlorophenol	ND		1.93	1.73		ug/L		90	60 - 130	2	20
1,3-Dichlorobenzene	ND		1.93	1.57		ug/L		81	40 - 125	6	20
1,4-Dichlorobenzene	ND		1.93	1.47		ug/L		76	40 - 125	1	20
Benzyl alcohol	1.5	*	1.93	3.29	F2	ug/L		93	65 - 125	24	20
1,2-Dichlorobenzene	ND		1.93	1.63		ug/L		84	45 - 125	3	20
2-Methylphenol	0.17	J	1.93	1.76	F2	ug/L		83	70 - 130	29	20
2,2'-oxybis[1-chloropropane]	ND		1.93	1.94		ug/L		101	65 - 125	1	20
3 & 4 Methylphenol	0.47	J	1.93	2.23	F2	ug/L		91	65 - 130	26	20
N-Nitrosodi-n-propylamine	ND		1.93	1.79		ug/L		93	70 - 130	1	20
Hexachloroethane	ND		1.93	1.52		ug/L		79	30 - 125	0	20
Nitrobenzene	ND		1.93	1.94		ug/L		101	70 - 125	6	20
Isophorone	0.15	J	1.93	1.89		ug/L		90	75 - 125	6	20
2-Nitrophenol	0.12	J	1.93	1.91		ug/L		93	55 - 140	1	20
2,4-Dimethylphenol	ND	*	1.93	1.26	J F2	ug/L		65	30 - 135	119	20
Benzoic acid	14		3.85	18.0	F2	ug/L		95	20 - 140	24	20
Bis(2-chloroethoxy)methane	ND		1.93	1.60		ug/L		83	75 - 125	2	20
2,4-Dichlorophenol	ND		1.93	1.85		ug/L		96	50 - 140	8	20
1,2,4-Trichlorobenzene	ND		1.93	1.53		ug/L		80	40 - 125	2	20

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: 580-45232-1 MSD

Matrix: Water

Analysis Batch: 169546

Client Sample ID: QC-EB-01-20140903-W

Prep Type: Total/NA

Prep Batch: 168914

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Naphthalene	0.14	J	1.93	1.81		ug/L		86	60 - 125	6	20
4-Chloroaniline	ND	*	1.93	0.169	J F1 F2	ug/L		9	35 - 175	53	20
Hexachlorobutadiene	ND		1.93	1.34		ug/L		70	25 - 125	5	20
4-Chloro-3-methylphenol	0.22	J	1.93	2.36		ug/L		111	65 - 145	13	20
2-Methylnaphthalene	0.046	J	1.93	1.71		ug/L		86	60 - 125	1	20
1-Methylnaphthalene	ND		1.93	1.75		ug/L		91	60 - 125	4	20
Hexachlorocyclopentadiene	ND		1.93	1.29	J	ug/L		67	20 - 125	2	20
2,4,6-Trichlorophenol	ND		1.93	1.63		ug/L		84	55 - 140	5	20
2,4,5-Trichlorophenol	ND		1.93	1.72		ug/L		89	75 - 125	2	20
2-Chloronaphthalene	ND		1.93	1.65		ug/L		86	60 - 125	1	20
2-Nitroaniline	ND	^	1.93	2.52	^	ug/L		131	75 - 140	6	20
Dimethyl phthalate	1.8		1.93	3.63	F2	ug/L		95	65 - 155	21	20
Acenaphthylene	ND		1.93	1.78		ug/L		93	65 - 125	2	20
2,6-Dinitrotoluene	1.3		1.93	3.31		ug/L		105	75 - 125	13	20
3-Nitroaniline	ND		1.93	0.665	F1	ug/L		35	75 - 140	12	20
Acenaphthene	ND		1.93	1.81		ug/L		94	65 - 125	4	20
2,4-Dinitrophenol	ND		3.85	5.93	F1	ug/L		154	50 - 130	12	20
4-Nitrophenol	ND		3.85	4.68		ug/L		122	35 - 145	4	20
Dibenzofuran	ND		1.93	1.76		ug/L		91	60 - 125	2	20
2,4-Dinitrotoluene	ND		1.93	2.17		ug/L		112	75 - 125	4	20
Diethyl phthalate	11		1.93	12.9	4 F2	ug/L		82	60 - 150	35	20
4-Chlorophenyl phenyl ether	ND		1.93	1.72		ug/L		89	70 - 125	2	20
Fluorene	0.033	J	1.93	1.91		ug/L		97	70 - 125	1	20
4-Nitroaniline	ND		1.93	0.956	F1	ug/L		50	70 - 125	5	20
4,6-Dinitro-2-methylphenol	ND	^	3.85	4.83	^	ug/L		125	50 - 125	1	20
N-Nitrosodiphenylamine	ND		1.93	1.71		ug/L		89	40 - 135	14	20
4-Bromophenyl phenyl ether	ND		1.93	1.88		ug/L		98	75 - 125	1	20
Hexachlorobenzene	ND		1.93	1.67		ug/L		87	70 - 125	1	20
Pentachlorophenol	0.21	J	3.85	3.86		ug/L		95	20 - 145	13	20
Phenanthrene	0.032	J	1.93	1.88		ug/L		96	75 - 125	3	20
Anthracene	ND		1.93	1.44		ug/L		75	50 - 125	1	20
Carbazole	ND		1.93	2.16		ug/L		112	75 - 125	2	20
Di-n-butyl phthalate	1.3		1.93	3.32		ug/L		107	55 - 155	13	20
Fluoranthene	ND		1.93	1.96		ug/L		102	70 - 125	1	20
Pyrene	0.013	J	1.93	1.80		ug/L		93	70 - 125	1	20
Butyl benzyl phthalate	0.23	J ^	1.93	2.62	^	ug/L		124	60 - 150	4	20
3,3'-Dichlorobenzidine	ND	*	3.85	0.101	J F1	ug/L		3	20 - 175	3	20
Benzo[a]anthracene	ND		1.93	1.79		ug/L		93	65 - 125	3	20
Chrysene	ND		1.93	1.80		ug/L		93	70 - 125	3	20
Bis(2-ethylhexyl) phthalate	1.8	J	1.93	4.08	F2	ug/L		118	20 - 175	47	20
Di-n-octyl phthalate	ND		1.93	2.39		ug/L		124	55 - 150	3	20
Benzo[b]fluoranthene	ND		1.93	2.21		ug/L		115	70 - 125	10	20
Benzo[k]fluoranthene	ND		1.93	1.73		ug/L		90	70 - 125	9	20
Benzo[a]pyrene	ND		1.93	1.44		ug/L		75	45 - 125	6	20
Indeno[1,2,3-cd]pyrene	ND		1.93	2.53	F1	ug/L		132	75 - 125	0	20
Dibenz(a,h)anthracene	ND		1.93	2.12		ug/L		110	75 - 130	2	20
Benzo[g,h,i]perylene	ND		1.93	1.88		ug/L		98	75 - 125	2	20
N-Nitrosodimethylamine	ND		1.93	1.65	J	ug/L		85	45 - 125	13	20

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: 580-45232-1 MSD  
Matrix: Water  
Analysis Batch: 169546

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA  
Prep Batch: 168914

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol	69		30 - 134
Phenol-d5	82		52 - 120
2,4,6-Tribromophenol	104		44 - 125
Nitrobenzene-d5	98		59 - 120
2-Fluorobiphenyl	85		50 - 120
Terphenyl-d14	108		64 - 150

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

Lab Sample ID: MB 580-168828/5  
Matrix: Water  
Analysis Batch: 168828

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050	0.010	mg/L			09/04/14 18:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150		09/04/14 18:55	1
Trifluorotoluene (Surr)	108		50 - 150		09/04/14 18:55	1

Lab Sample ID: LCS 580-168828/6  
Matrix: Water  
Analysis Batch: 168828

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	1.00	0.893		mg/L		89	79 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		50 - 150
Trifluorotoluene (Surr)	95		50 - 150

Lab Sample ID: LCSD 580-168828/7  
Matrix: Water  
Analysis Batch: 168828

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
Gasoline	1.00	0.887		mg/L		89	79 - 110	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		50 - 150
Trifluorotoluene (Surr)	95		50 - 150

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: MB 580-168871/1-A**  
**Matrix: Solid**  
**Analysis Batch: 169097**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 168871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.010	0.0032	mg/Kg		09/05/14 07:16	09/08/14 16:59	1
Arochlor 1221	ND		0.011	0.0080	mg/Kg		09/05/14 07:16	09/08/14 16:59	1
Arochlor 1232	ND		0.011	0.0070	mg/Kg		09/05/14 07:16	09/08/14 16:59	1
Arochlor 1242	ND		0.010	0.0021	mg/Kg		09/05/14 07:16	09/08/14 16:59	1
Arochlor 1248	ND		0.010	0.0030	mg/Kg		09/05/14 07:16	09/08/14 16:59	1
Arochlor 1254	ND		0.010	0.0021	mg/Kg		09/05/14 07:16	09/08/14 16:59	1
Arochlor 1260	ND		0.010	0.0030	mg/Kg		09/05/14 07:16	09/08/14 16:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		45 - 135	09/05/14 07:16	09/08/14 16:59	1
DCB Decachlorobiphenyl	100		50 - 140	09/05/14 07:16	09/08/14 16:59	1

**Lab Sample ID: LCS 580-168871/4-A**  
**Matrix: Solid**  
**Analysis Batch: 169097**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 168871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arochlor 1016	0.100	0.0828		mg/Kg		83	40 - 140
Arochlor 1260	0.100	0.0826		mg/Kg		83	60 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	89		45 - 135
DCB Decachlorobiphenyl	90		50 - 140

**Lab Sample ID: LCSD 580-168871/5-A**  
**Matrix: Solid**  
**Analysis Batch: 169097**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 168871**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arochlor 1016	0.100	0.0883		mg/Kg		88	40 - 140	6	20
Arochlor 1260	0.100	0.0857		mg/Kg		86	60 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	106		45 - 135
DCB Decachlorobiphenyl	103		50 - 140

**Lab Sample ID: 580-45232-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 169097**

**Client Sample ID: CS-CB-01-20140903-S**  
**Prep Type: Total/NA**  
**Prep Batch: 168871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arochlor 1016	ND		0.239	0.137		mg/Kg	☼	58	40 - 140
Arochlor 1260	0.051		0.239	0.151	F1	mg/Kg	☼	42	60 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	48		45 - 135
DCB Decachlorobiphenyl	48	X	50 - 140

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-4 MSD**

**Matrix: Solid**

**Analysis Batch: 169097**

**Client Sample ID: CS-CB-01-20140903-S**

**Prep Type: Total/NA**

**Prep Batch: 168871**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Arochlor 1016	ND		0.236	0.134		mg/Kg	☼	57	40 - 140		2	20
Arochlor 1260	0.051		0.236	0.166	F1	mg/Kg	☼	49	60 - 130		10	20
		<b>MSD</b>	<b>MSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>									
Tetrachloro-m-xylene	55		45 - 135									
DCB Decachlorobiphenyl	56		50 - 140									

**Lab Sample ID: MB 580-168970/1-A**

**Matrix: Water**

**Analysis Batch: 169267**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 168970**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
PCB-1016	ND		0.50	0.065	ug/L		09/05/14 15:48	09/09/14 23:56		1
PCB-1221	ND		0.50	0.068	ug/L		09/05/14 15:48	09/09/14 23:56		1
PCB-1232	ND		0.50	0.055	ug/L		09/05/14 15:48	09/09/14 23:56		1
PCB-1242	ND		0.50	0.078	ug/L		09/05/14 15:48	09/09/14 23:56		1
PCB-1248	ND		0.50	0.060	ug/L		09/05/14 15:48	09/09/14 23:56		1
PCB-1254	ND		0.50	0.079	ug/L		09/05/14 15:48	09/09/14 23:56		1
PCB-1260	ND		0.50	0.057	ug/L		09/05/14 15:48	09/09/14 23:56		1
		<b>MB</b>	<b>MB</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil</b>				
Tetrachloro-m-xylene	81		26 - 124	09/05/14 15:48	09/09/14 23:56					
DCB Decachlorobiphenyl	102		38 - 121	09/05/14 15:48	09/09/14 23:56					

**Lab Sample ID: LCS 580-168970/2-A**

**Matrix: Water**

**Analysis Batch: 169267**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 168970**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
PCB-1016	0.800	0.979		ug/L		122	25 - 145	
PCB-1260	0.800	0.878		ug/L		110	30 - 145	
		<b>LCS</b>	<b>LCS</b>					
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
Tetrachloro-m-xylene	97		26 - 124					
DCB Decachlorobiphenyl	113		38 - 121					

**Lab Sample ID: LCSD 580-168970/3-A**

**Matrix: Water**

**Analysis Batch: 169267**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 168970**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
		Result	Qualifier							
PCB-1016	0.800	0.936		ug/L		117	25 - 145	4	27	
PCB-1260	0.800	0.847		ug/L		106	30 - 145	4	22	
		<b>LCSD</b>	<b>LCSD</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
Tetrachloro-m-xylene	95		26 - 124							
DCB Decachlorobiphenyl	111		38 - 121							

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: MB 580-169074/1-A**

**Matrix: Solid**

**Analysis Batch: 169177**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 169074**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	5.7	mg/Kg		09/08/14 10:10	09/09/14 20:36	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		09/08/14 10:10	09/09/14 20:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 150	09/08/14 10:10	09/09/14 20:36	1

**Lab Sample ID: LCS 580-169074/2-A**

**Matrix: Solid**

**Analysis Batch: 169177**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 169074**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	500	429		mg/Kg		86	70 - 125
Motor Oil (>C24-C36)	502	459		mg/Kg		91	64 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	89		50 - 150

**Lab Sample ID: LCSD 580-169074/3-A**

**Matrix: Solid**

**Analysis Batch: 169177**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 169074**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	500	442		mg/Kg		88	70 - 125	3	16
Motor Oil (>C24-C36)	502	473		mg/Kg		94	64 - 127	3	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	87		50 - 150

**Lab Sample ID: 580-45232-4 MS**

**Matrix: Solid**

**Analysis Batch: 169177**

**Client Sample ID: CS-CB-01-20140903-S**

**Prep Type: Total/NA**

**Prep Batch: 169074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	6800	Y	1160	7620	4	mg/Kg	✖	74	70 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	92		50 - 150

**Lab Sample ID: 580-45232-4 MSD**

**Matrix: Solid**

**Analysis Batch: 169177**

**Client Sample ID: CS-CB-01-20140903-S**

**Prep Type: Total/NA**

**Prep Batch: 169074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	6800	Y	1140	7520	4	mg/Kg	✖	68	70 - 125	1	16

TestAmerica Seattle



# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 169177**

**Client Sample ID: CS-CB-01-20140903-S**  
**Prep Type: Total/NA**  
**Prep Batch: 169074**

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	82		50 - 150

**Lab Sample ID: MB 580-169338/1-A**  
**Matrix: Water**  
**Analysis Batch: 169398**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 169338**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
#2 Diesel (C10-C24)	0.0702	J	0.13	0.019	mg/L		09/10/14 11:59	09/11/14 11:00	1
Motor Oil (>C24-C36)	ND		0.25	0.029	mg/L		09/10/14 11:59	09/11/14 11:00	1

	MB MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>o</i> -Terphenyl	93		50 - 150	09/10/14 11:59	09/11/14 11:00	1		

**Lab Sample ID: LCS 580-169338/2-A**  
**Matrix: Water**  
**Analysis Batch: 169398**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 169338**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	Limits
#2 Diesel (C10-C24)	4.00	3.80		mg/L		95	59 - 120	
Motor Oil (>C24-C36)	4.00	4.04		mg/L		101	71 - 140	

	LCS LCS		
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	99		50 - 150

**Lab Sample ID: LCSD 580-169338/3-A**  
**Matrix: Water**  
**Analysis Batch: 169398**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 169338**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec.		RPD	
		Result	Qualifier				Limits	RPD	Limit	
#2 Diesel (C10-C24)	4.00	3.86		mg/L		96	59 - 120	2	27	
Motor Oil (>C24-C36)	4.00	4.08		mg/L		102	71 - 140	1	27	

	LCSD LCSD		
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	101		50 - 150

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

**Lab Sample ID: 580-45232-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 169286**

**Client Sample ID: CS-CB-01-20140903-S**  
**Prep Type: Total/NA**  
**Prep Batch: 169074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
#2 Diesel (C10-C24) - DL	7000		1140	7880	4 F2	mg/Kg	✱	79	70 - 125	40	16	
Motor Oil (>C24-C36) - DL	45000		1140	45500	4 F2	mg/Kg	✱	83	64 - 127	156	17	

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 169286**

**Client Sample ID: CS-CB-01-20140903-S**  
**Prep Type: Total/NA**  
**Prep Batch: 169074**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
<i>o</i> -Terphenyl - DL	95		50 - 150

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

**Lab Sample ID: MB 580-168889/13-A**  
**Matrix: Water**  
**Analysis Batch: 169044**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 168889**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00075	mg/L		09/05/14 08:41	09/05/14 13:44	1
Antimony	ND		0.00040	0.000080	mg/L		09/05/14 08:41	09/05/14 13:44	1
Beryllium	ND		0.00040	0.00010	mg/L		09/05/14 08:41	09/05/14 13:44	1
Cadmium	ND		0.00040	0.000028	mg/L		09/05/14 08:41	09/05/14 13:44	1
Chromium	ND		0.00040	0.00027	mg/L		09/05/14 08:41	09/05/14 13:44	1
Copper	ND		0.0010	0.00011	mg/L		09/05/14 08:41	09/05/14 13:44	1
Lead	ND		0.00040	0.000034	mg/L		09/05/14 08:41	09/05/14 13:44	1
Nickel	ND		0.0030	0.00040	mg/L		09/05/14 08:41	09/05/14 13:44	1
Selenium	ND		0.0010	0.00071	mg/L		09/05/14 08:41	09/05/14 13:44	1
Silver	ND		0.00040	0.000030	mg/L		09/05/14 08:41	09/05/14 13:44	1
Thallium	ND		0.0010	0.00028	mg/L		09/05/14 08:41	09/05/14 13:44	1
Zinc	ND		0.0040	0.0019	mg/L		09/05/14 08:41	09/05/14 13:44	1

**Lab Sample ID: LCS 580-168889/14-A**  
**Matrix: Water**  
**Analysis Batch: 169044**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 168889**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.105		mg/L		105	80 - 120
Antimony	0.100	0.106		mg/L		106	80 - 120
Beryllium	0.100	0.104		mg/L		104	80 - 120
Cadmium	0.100	0.104		mg/L		104	80 - 120
Chromium	0.100	0.102		mg/L		102	80 - 120
Copper	0.100	0.101		mg/L		101	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Nickel	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Silver	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120
Zinc	0.100	0.107		mg/L		107	80 - 120

**Lab Sample ID: LCSD 580-168889/15-A**  
**Matrix: Water**  
**Analysis Batch: 169044**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 168889**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.100	0.106		mg/L		106	80 - 120	1	20
Antimony	0.100	0.105		mg/L		105	80 - 120	0	20
Beryllium	0.100	0.104		mg/L		104	80 - 120	0	20

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: LCSD 580-168889/15-A**  
**Matrix: Water**  
**Analysis Batch: 169044**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 168889**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD Limit
							Limits	RPD	
Cadmium	0.100	0.104		mg/L		104	80 - 120	0	20
Chromium	0.100	0.102		mg/L		102	80 - 120	0	20
Copper	0.100	0.101		mg/L		101	80 - 120	0	20
Lead	0.100	0.102		mg/L		102	80 - 120	0	20
Nickel	0.100	0.101		mg/L		101	80 - 120	0	20
Selenium	0.100	0.108		mg/L		108	80 - 120	2	20
Silver	0.100	0.101		mg/L		101	80 - 120	0	20
Thallium	0.100	0.103		mg/L		103	80 - 120	1	20
Zinc	0.100	0.107		mg/L		107	80 - 120	0	20

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

**Lab Sample ID: MB 580-169131/13-A**  
**Matrix: Solid**  
**Analysis Batch: 169283**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 169131**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.50	0.18	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Lead	ND		0.20	0.013	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Antimony	ND		0.20	0.042	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Beryllium	ND		0.20	0.035	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Cadmium	ND		0.20	0.0080	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Chromium	ND		0.20	0.11	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Copper	ND		0.40	0.098	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Nickel	ND		0.50	0.081	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Selenium	ND		0.70	0.20	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Silver	ND		0.20	0.012	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Thallium	ND		0.50	0.13	mg/Kg		09/08/14 15:41	09/09/14 12:47	10
Zinc	ND		2.0	1.1	mg/Kg		09/08/14 15:41	09/09/14 12:47	10

**Lab Sample ID: LCS 580-169131/14-A**  
**Matrix: Solid**  
**Analysis Batch: 169283**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 169131**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Arsenic	200	198		mg/Kg		99	80 - 120	
Lead	50.0	48.8		mg/Kg		98	80 - 120	
Antimony	150	149		mg/Kg		99	80 - 120	
Beryllium	5.00	4.81		mg/Kg		96	80 - 120	
Cadmium	5.00	4.95		mg/Kg		99	80 - 120	
Chromium	20.0	19.3		mg/Kg		97	80 - 120	
Copper	25.0	24.3		mg/Kg		97	80 - 120	
Nickel	50.0	48.5		mg/Kg		97	80 - 120	
Selenium	200	202		mg/Kg		101	80 - 120	
Silver	30.0	30.1		mg/Kg		100	80 - 120	
Thallium	200	196		mg/Kg		98	80 - 120	
Zinc	200	193		mg/Kg		97	80 - 120	

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: LCSD 580-169131/15-A  
Matrix: Solid  
Analysis Batch: 169283

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 169131

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Arsenic	200	196		mg/Kg		98	80 - 120	1	20	
Lead	50.0	48.6		mg/Kg		97	80 - 120	0	20	
Antimony	150	149		mg/Kg		99	80 - 120	0	20	
Beryllium	5.00	4.91		mg/Kg		98	80 - 120	2	20	
Cadmium	5.00	4.85		mg/Kg		97	80 - 120	2	20	
Chromium	20.0	18.9		mg/Kg		95	80 - 120	2	20	
Copper	25.0	24.0		mg/Kg		96	80 - 120	1	20	
Nickel	50.0	47.2		mg/Kg		94	80 - 120	3	20	
Selenium	200	200		mg/Kg		100	80 - 120	1	20	
Silver	30.0	30.0		mg/Kg		100	80 - 120	0	20	
Thallium	200	196		mg/Kg		98	80 - 120	0	20	
Zinc	200	193		mg/Kg		96	80 - 120	0	20	

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-169047/10-A  
Matrix: Water  
Analysis Batch: 169126

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 169047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 580-169047/11-A  
Matrix: Water  
Analysis Batch: 169126

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 169047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Mercury	0.00200	0.00171		mg/L		86	80 - 120	

Lab Sample ID: LCSD 580-169047/12-A  
Matrix: Water  
Analysis Batch: 169126

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 169047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Mercury	0.00200	0.00183		mg/L		91	80 - 120	7	20	

Lab Sample ID: 580-45232-1 MS  
Matrix: Water  
Analysis Batch: 169126

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA  
Prep Batch: 169047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Mercury	ND		0.00200	0.00182		mg/L		91	80 - 120	

Lab Sample ID: 580-45232-1 MSD  
Matrix: Water  
Analysis Batch: 169126

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA  
Prep Batch: 169047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Mercury	ND		0.00200	0.00179		mg/L		89	80 - 120	2

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 580-45232-1 DU  
Matrix: Water  
Analysis Batch: 169126

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA  
Prep Batch: 169047

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Mercury	ND		0.0000410	J	mg/L		NC	20

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-168834/20-A  
Matrix: Solid  
Analysis Batch: 168961

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 168834

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.017	0.0053	mg/Kg		09/04/14 14:25	09/05/14 09:26	1

Lab Sample ID: LCS 580-168834/21-A  
Matrix: Solid  
Analysis Batch: 168961

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 168834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSD 580-168834/22-A  
Matrix: Solid  
Analysis Batch: 168961

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 168834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

## Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: MB 580-168898/1  
Matrix: Water  
Analysis Batch: 168898

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Specific Conductance	ND		10	10	umhos/cm			09/04/14 10:00	1

Lab Sample ID: LCS 580-168898/2  
Matrix: Water  
Analysis Batch: 168898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 580-45232-1 DU  
Matrix: Water  
Analysis Batch: 168898

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Specific Conductance	ND		ND		umhos/cm		NC	20

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 580-168858/1**  
**Matrix: Water**  
**Analysis Batch: 168858**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.90	0.20	mg/L			09/04/14 11:05	1

**Lab Sample ID: LCS 580-168858/2**  
**Matrix: Water**  
**Analysis Batch: 168858**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.80	1.81		mg/L		101	90 - 110

**Lab Sample ID: LCSD 580-168858/3**  
**Matrix: Water**  
**Analysis Batch: 168858**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	1.80	1.81		mg/L		101	90 - 110	0	15

**Lab Sample ID: 580-45232-1 MS**  
**Matrix: Water**  
**Analysis Batch: 168858**

**Client Sample ID: QC-EB-01-20140903-W**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		1.80	1.47	F1	mg/L		82	90 - 110

**Lab Sample ID: 580-45232-1 DU**  
**Matrix: Water**  
**Analysis Batch: 168858**

**Client Sample ID: QC-EB-01-20140903-W**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	10

**Lab Sample ID: MB 580-168859/1**  
**Matrix: Water**  
**Analysis Batch: 168859**

**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			09/04/14 11:05	1
Sulfate	ND		1.2	0.40	mg/L			09/04/14 11:05	1

**Lab Sample ID: LCS 580-168859/2**  
**Matrix: Water**  
**Analysis Batch: 168859**

**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	9.13		mg/L		101	90 - 110
Sulfate	12.0	12.0		mg/L		100	90 - 110

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-168859/3

Matrix: Water

Analysis Batch: 168859

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	9.11		mg/L		101	90 - 110	0	15
Sulfate	12.0	12.0		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-45232-1 MS

Matrix: Water

Analysis Batch: 168859

Client Sample ID: QC-EB-01-20140903-W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	ND		9.00	7.56	F1	mg/L		84	90 - 110
Sulfate	0.57	J	12.0	9.89	F1	mg/L		78	90 - 110

Lab Sample ID: 580-45232-1 DU

Matrix: Water

Analysis Batch: 168859

Client Sample ID: QC-EB-01-20140903-W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	ND		ND		mg/L		NC	10
Sulfate	0.57	J	ND		mg/L		NC	10

## Method: 310.1 - Alkalinity

Lab Sample ID: LCS 580-168853/2

Matrix: Water

Analysis Batch: 168853

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	98.2		mg/L		98	85 - 115

## Method: D 2216 - Percent Moisture

Lab Sample ID: 580-45232-4 DU

Matrix: Solid

Analysis Batch: 168855

Client Sample ID: CS-CB-01-20140903-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	42		41		%		1	20
Percent Moisture	58		59		%		0.9	20

## Method: SM 2540B - Solids, Total

Lab Sample ID: 580-45232-4 DU

Matrix: Solid

Analysis Batch: 169272

Client Sample ID: CS-CB-01-20140903-S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	39		38.1		%		2	20

TestAmerica Seattle



# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

Lab Sample ID: MB 580-168849/1  
Matrix: Water  
Analysis Batch: 168849

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			09/04/14 16:03	1

Lab Sample ID: LCS 580-168849/2  
Matrix: Water  
Analysis Batch: 168849

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	36.0		mg/L		120	70.6 - 120

Lab Sample ID: 580-45232-2 DU  
Matrix: Water  
Analysis Batch: 168849

Client Sample ID: CS-TS-01-20140903-W  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	7.0		5.00		mg/L		33	20

## Method: SM 4500 H+ B - pH

Lab Sample ID: 580-45232-1 DU  
Matrix: Water  
Analysis Batch: 168893

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	5.42	HF	5.460		SU		0.7	1

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

Lab Sample ID: MB 580-169817/3  
Matrix: Water  
Analysis Batch: 169817

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			09/12/14 11:18	1

Lab Sample ID: LCS 580-169817/4  
Matrix: Water  
Analysis Batch: 169817

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	16.9		mg/L		112	85 - 115

Lab Sample ID: 580-45232-1 MS  
Matrix: Water  
Analysis Batch: 169817

Client Sample ID: QC-EB-01-20140903-W  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.64	J	10.0	10.9		mg/L		102	85 - 115

TestAmerica Seattle

# QC Sample Results

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

TestAmerica Job ID: 580-45232-1

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

**Lab Sample ID: 580-45232-1 MSD**

**Matrix: Water**

**Analysis Batch: 169817**

**Client Sample ID: QC-EB-01-20140903-W**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.64	J	10.0	11.2		mg/L		105	85 - 115	3	20

**Lab Sample ID: 580-45232-1 DU**

**Matrix: Water**

**Analysis Batch: 169817**

**Client Sample ID: QC-EB-01-20140903-W**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	0.64	J	0.441	J	mg/L		37	20

# Lab Chronicle

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: QC-EB-01-20140903-W**

**Lab Sample ID: 580-45232-1**

**Date Collected: 09/03/14 06:50**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	169936	09/16/14 21:32	CJ	TAL SEA
Total/NA	Prep	3520C			168914	09/05/14 10:14	CLH	TAL SEA
Total/NA	Analysis	8270D		1	169546	09/12/14 13:01	ERB	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	168828	09/04/14 21:07	AS	TAL SEA
Total/NA	Prep	3510C			168970	09/05/14 15:48	RBL	TAL SEA
Total/NA	Analysis	8082		1	169267	09/10/14 00:42	ALC	TAL SEA
Total/NA	Prep	3510C			169338	09/10/14 11:59	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	169398	09/11/14 11:54	JJP	TAL SEA
Total/NA	Prep	200.8			168889	09/05/14 08:41	KJV	TAL SEA
Total/NA	Analysis	200.8		1	169044	09/05/14 14:37	FCW	TAL SEA
Total/NA	Prep	7470A			169047	09/08/14 06:55	FCW	TAL SEA
Total/NA	Analysis	7470A		1	169126	09/08/14 10:35	FCW	TAL SEA
Total/NA	Analysis	120.1		1	168898	09/04/14 10:00	JLS	TAL SEA
Total/NA	Analysis	300.0		1	168858	09/04/14 12:13	JLS	TAL SEA
Total/NA	Analysis	300.0		1	168859	09/04/14 12:13	JLS	TAL SEA
Total/NA	Analysis	310.1		1	168853	09/04/14 16:30	TAA	TAL SEA
Total/NA	Analysis	SM 2540D		1	168849	09/04/14 16:07	JLS	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	168893	09/04/14 12:27	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	169817	09/12/14 11:18	RSB	TAL SEA

**Client Sample ID: CS-TS-01-20140903-W**

**Lab Sample ID: 580-45232-2**

**Date Collected: 09/03/14 12:00**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			168914	09/05/14 10:14	CLH	TAL SEA
Total/NA	Analysis	8270D		5	169546	09/12/14 14:12	ERB	TAL SEA
Total/NA	Prep	200.8			168889	09/05/14 08:41	KJV	TAL SEA
Total/NA	Analysis	200.8		1	169044	09/05/14 14:41	FCW	TAL SEA
Total/NA	Prep	7470A			169047	09/08/14 06:55	FCW	TAL SEA
Total/NA	Analysis	7470A		1	169126	09/08/14 10:45	FCW	TAL SEA
Total/NA	Analysis	120.1		1	168898	09/04/14 10:00	JLS	TAL SEA
Total/NA	Analysis	300.0		1	168858	09/04/14 12:57	JLS	TAL SEA
Total/NA	Analysis	300.0		1	168859	09/04/14 12:57	JLS	TAL SEA
Total/NA	Analysis	310.1		1	168853	09/04/14 16:30	TAA	TAL SEA
Total/NA	Analysis	SM 2540D		1	168849	09/04/14 16:07	JLS	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	168893	09/04/14 12:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		10	169817	09/12/14 11:18	RSB	TAL SEA

# Lab Chronicle

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

TestAmerica Job ID: 580-45232-1

**Client Sample ID: CS-SP-01-20140903-W**

**Lab Sample ID: 580-45232-3**

**Date Collected: 09/03/14 14:15**

**Matrix: Water**

**Date Received: 09/04/14 09:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			168914	09/05/14 10:14	CLH	TAL SEA
Total/NA	Analysis	8270D		5	169546	09/12/14 14:36	ERB	TAL SEA
Total/NA	Prep	200.8			168889	09/05/14 08:41	KJV	TAL SEA
Total/NA	Analysis	200.8		1	169044	09/05/14 14:44	FCW	TAL SEA
Total/NA	Prep	7470A			169047	09/08/14 06:55	FCW	TAL SEA
Total/NA	Analysis	7470A		1	169126	09/08/14 10:47	FCW	TAL SEA
Total/NA	Analysis	120.1		1	168898	09/04/14 10:00	JLS	TAL SEA
Total/NA	Analysis	300.0		1	168858	09/04/14 13:11	JLS	TAL SEA
Total/NA	Analysis	300.0		1	168859	09/04/14 13:11	JLS	TAL SEA
Total/NA	Analysis	310.1		1	168853	09/04/14 16:32	TAA	TAL SEA
Total/NA	Analysis	SM 2540D		1	168849	09/04/14 16:07	JLS	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	168893	09/04/14 12:32	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		10	169817	09/12/14 11:18	RSB	TAL SEA

**Client Sample ID: CS-CB-01-20140903-S**

**Lab Sample ID: 580-45232-4**

**Date Collected: 09/03/14 13:00**

**Matrix: Solid**

**Date Received: 09/04/14 09:55**

**Percent Solids: 41.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			169198	09/12/14 11:00	ALL	TAL SEA
Total/NA	Analysis	8270C		20	170249	09/19/14 19:09	ERB	TAL SEA
Total/NA	Prep	3550B			168871	09/05/14 10:38	RMB	TAL SEA
Total/NA	Analysis	8082		1	169097	09/08/14 18:49	ALC	TAL SEA
Total/NA	Prep	3546			169074	09/08/14 10:10	CTC	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	169177	09/09/14 21:30	EKK	TAL SEA
Total/NA	Prep	3546	DL		169074	09/08/14 10:10	CTC	TAL SEA
Total/NA	Analysis	NWTPH-Dx	DL	5	169286	09/10/14 10:27	JJP	TAL SEA
Total/NA	Prep	3050B			169131	09/08/14 15:41	KJV	TAL SEA
Total/NA	Analysis	6020		10	169283	09/09/14 13:47	FCW	TAL SEA
Total/NA	Prep	7471A			168834	09/04/14 14:25	PAB	TAL SEA
Total/NA	Analysis	7471A		1	168961	09/05/14 10:26	FCW	TAL SEA
Total/NA	Analysis	D 2216		1	168855	09/04/14 17:13	PAB	TAL SEA
Total/NA	Analysis	SM 2540B		1	169272	09/09/14 18:13	TAA	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	169222	09/09/14 12:30	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 Sampling Support

TestAmerica Job ID: 580-45232-1

## Laboratory: TestAmerica Seattle

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

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

# Sample Summary

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

TestAmerica Job ID: 580-45232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-45232-1	QC-EB-01-20140903-W	Water	09/03/14 06:50	09/04/14 09:55
580-45232-2	CS-TS-01-20140903-W	Water	09/03/14 12:00	09/04/14 09:55
580-45232-3	CS-SP-01-20140903-W	Water	09/03/14 14:15	09/04/14 09:55
580-45232-4	CS-CB-01-20140903-S	Solid	09/03/14 13:00	09/04/14 09:55

- 1
- 2
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- 9
- 10
- 11

TestAmerica Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.testamericainc.com

THE LEADER IN ENVIRONMENTAL TESTING

RUSN  
 Short Hold

Chain of Custody Record

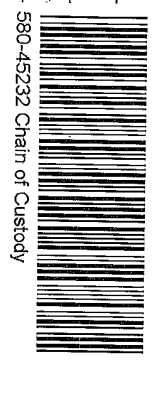
Client Leidos Client Contact Christine Naveen Date 9/14/14 Chain of Custody Number 24941

Address 18912 N Creek Pl State WA Zip Code 98011 Telephone Number (Area Code)/Fax Number 206-308-2144 Lab Number 45232 Page 1 of 1

City Bothell Project Name and Location (State) NPDES Sampling Support Washington Sampler Cory Wilson Lab Contact Kris Allen Billing Contact

Contract/Purchase Order/Quote No. NA Matrix

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	Analysis (Attach list if more space is needed)	Special Instructions/ Combination of Receipt
-1 QC-EB-01-20140903-W	9/3/14	0650	✓				12228							8082 8270C 200.8.CWA SM5310 SOC B 2540D NWTPH-DX NWTPH-GX 8260B 245.1 SM4500 120.1 300.0-250 200-48 HR 310.1 6080 7471A SM2540 FSEP	
-2 CS-TS-01-20140903-W	9/3/14	1200	✓				711								
-3 CS-SP-01-20140903-W	9/3/14	1415	✓				711								
-4 CS-CB-01-20140903-W	9/3/14	1300	✓				3								



Cooler/TB Dig/R cor 5.2 unc 5.2  
Cooler Disc 1.5 Green/Blue @ Lab 0455  
Wet/Packs Packing Bubble w/cs

Cooler/TB Dig/R cor 5.2 unc 5.2  
Cooler Disc 1.5 Blue/White @ Lab 0455  
Wet/Packs Packing Bubble w/cs

Cooler  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Sample Disposal  
 Return to Client  Archive For \_\_\_\_\_ 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
1. Relinquished By <u>Sign/Print</u>						
2. Relinquished By <u>Sign/Print</u>						
3. Relinquished By <u>Sign/Print</u>						

Comments: Please contact Leidos PM prior to disposal of samples Two coolers total

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.testamericainc.com

RUSN  
 Short Hold

Client: Leidos Client Contact: Christine Navarero Date: 9/14/14 Chain of Custody Number: 24941

Address: 18912 N Creek Pl State: WA Zip Code: 98011 Telephone Number (Area Code)/Fax Number: 206-308-2144 Lab Number: 45232 Page: 1 of 1

City: Bothell Project Name and Location (State): NPDES Sampling Support Washington Sampler: Carey Wilson Lab Contact: Kris Allen Billing Contact:

Contract/Purchase Order/Quote No.: NA Matrix:  Containers & Preservatives:  Analysis (Attach list if more space is needed): 8082, 8270C, 200.8.CWA, SM5310, 30C.B, 2540D, NWTPH-DX, NWTPH-GX, 8260B, 245.1, SM4500, 120.1, 300.0-250, 200-48 HR, 310.1, 6080, 7471A, SM2540, FSEP. Special Instructions/Conditions/Receipt:

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

Sample I.D. and Location/Description	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed)
-1 QC-EB-01-20140903-W	9/3/14	0650	✓				12.2	2.8					✓
-2 CS-TS-01-20140903-W	9/3/14	1200	✓				7.1	1.1					✓
-3 CS-SP-01-20140903-W	9/3/14	1415	✓				7.1	1.1					✓
-4 CS-CB-01-20140903-W	9/3/14	1300	✓				3						✓



580-45232 Chain of Custody

Cooler/TB Dig/R cor 5.1 unc 5.2  
Cooler Dsc 1.5 Green/Black @ Lab 0455  
Wet/Packs Packing Bubble w/cs

Cooler/TB Dig/R cor 5.1 unc 5.7  
Cooler Dsc 1.5 Blue/White @ Lab 0455  
Wet/Packs Packing Bubble w/cs

Cooler  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Sample Disposal:  Return to Client  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 \_\_\_\_\_ QC Requirements (Specify): \_\_\_\_\_

Relinquished By	Signature/Print	Date	Time	Relinquished By	Signature/Print	Date	Time
1. Relinquished By	<u>Carey Wilson</u>	<u>9/14/14</u>	<u>0904</u>	1. Received By	<u>Francisco Luna Jr.</u>	<u>9/14/14</u>	<u>0904</u>
2. Relinquished By	<u></u>	<u>9/14/14</u>	<u></u>	2. Received By	<u></u>	<u></u>	<u></u>
3. Relinquished By	<u></u>	<u></u>	<u></u>	3. Received By	<u></u>	<u></u>	<u></u>

Comments: Please contact Leidos PM prior to disposal of samples Two coolers total

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

## Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-45232-1

**Login Number: 45232**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <6mm (1/4").	False	All 6 vials are way > 1/4"
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: 580-45232-2

Client Project/Site: NPDES Sampling Support

For:

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

Attn: Christine Nancarrow



Authorized for release by:  
10/30/2014 1:08:27 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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

TestAmerica Job ID: 580-45232-2

**Job ID: 580-45232-2**

**Laboratory: TestAmerica Seattle**

## Narrative

**Job Narrative**  
**580-45232-2**

### Comments

No additional comments.

### Receipt

The samples were received on 9/4/2014 9:04 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.1° C and 5.6° C.

Except:

The following sample(s) was activated for TOC analysis by the client on 10-14-2014: CS-CB-01-20140903-S (580-45232-4). This analysis was not originally requested on the chain-of-custody (COC) and is being tested outside of holding time.

### GC/MS Semi VOA

Method(s) 8270C, 8270D: The method blank for batch 169198 contained Dimethyl phthalate, Diethyl phthalate and Bis(2-ethylhexyl) phthalate 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.

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: The following sample was prepared outside of the holding time due to client requesting analysis out of hold: CS-CB-01-20140903-S (580-45232-4).

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

# Definitions/Glossary

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

TestAmerica Job ID: 580-45232-2

## Qualifiers

### 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.
□	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

TestAmerica Job ID: 580-45232-2

**Client Sample ID: CS-CB-01-20140903-S**

**Lab Sample ID: 580-45232-4**

**Date Collected: 09/03/14 13:00**

**Matrix: Solid**

**Date Received: 09/04/14 09:55**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	140000	H	2000	250	mg/Kg			10/16/14 13:53	1

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



# QC Sample Results

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

TestAmerica Job ID: 580-45232-2

## Method: 9060\_PSEP - TOC (Puget Sound)

**Lab Sample ID: MB 580-174343/3**

**Matrix: Solid**

**Analysis Batch: 174343**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		2000	250	mg/Kg			10/16/14 12:00	1

**Lab Sample ID: LCS 580-174343/4**

**Matrix: Solid**

**Analysis Batch: 174343**

**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	3080		mg/Kg		108	27.8 - 170

**Lab Sample ID: LCSD 580-174343/5**

**Matrix: Solid**

**Analysis Batch: 174343**

**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	3020		mg/Kg		106	27.8 - 170	2	35

# Lab Chronicle

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

TestAmerica Job ID: 580-45232-2

**Client Sample ID: CS-CB-01-20140903-S**

**Lab Sample ID: 580-45232-4**

**Date Collected: 09/03/14 13:00**

**Matrix: Solid**

**Date Received: 09/04/14 09:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060_PSEP		1	172987	10/16/14 13:53	CRH	TAL SEA

**Laboratory References:**

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



# Certification Summary

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

TestAmerica Job ID: 580-45232-2

## 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

TestAmerica Job ID: 580-45232-2

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-45232-4	CS-CB-01-20140903-S	Solid	09/03/14 13:00	09/04/14 09:55

---

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

TestAmerica Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.testamericainc.com

Client: **Leidos**  
Address: **18912 N Creek Pl**  
City: **Bozwell** State: **WA** Zip Code: **98011**

Date: **9/19/14**  
Lab Number: **45232**

Chain of Custody Number: **24941**

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

Client Contact: **Christine Navarero**  
Telephone Number (Area Code)/Fax Number: **206.308.2144**

Project Name and Location (State): **NDES Sampling Support Washington**  
Contract/Purchase Order/Quote No.: **NA**

Sampler: **Cory Wilson** Lab Contact: **Kris Allen**  
Billing Contact: **Cory Wilson**

Matrix: **Unpres. H2SO4 HNO3 HCl NaOH ZnAc/NaOH**

Containers & Preservatives: **8082 8270C 200.8 CWA SM5310 JOC B 2540D NWTPH-DX NWTPH-GX 8260B 245.1 SM4500 120.1 300.0-250 200-48 HR 310.1 6080 7471A SM2540 FSEP**

Analysis (Attach list if more space is needed)

Special Instructions/Conditions/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	Analysis (Attach list if more space is needed)	Special Instructions/Conditions/Receipt
-1 QC-EB-01-20140903-W	9/3/14	0650	✓				12	2	2	8				
-2 CS-TS-01-20140903-W	9/3/14	1200	✓				7	1	1					
-3 CS-SP-01-20140903-W	9/3/14	1415	✓				7	1	1					
-4 CS-CB-01-20140903-W	9/3/14	1300	✓				3							



580-45232 Chain of Custody

Cooler/TB Dig/R cor 5.2 unc 5.2  
Cooler Dsc 1g Green/Blue @ Lab 0455  
Wet/Packs Packing Bubble w/cs

Cooler/TB Dig/R cor 5.2 unc 5.2  
Cooler Dsc 1g Blue/White @ Lab 0455  
Wet/Packs Packing Bubble w/cs

Cooler:  Yes  No  
Cooler Temp: \_\_\_\_\_  
Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Sample Disposal  Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

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

1. Relinquished By: **Cory Wilson** Date: **9/11/14** Time: **0904**  
2. Relinquished By: **Cory Wilson** Date: **9/11/14** Time: \_\_\_\_\_

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **Please contact Leidos PM prior to disposal of samples Two coolers total**

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

THE LEADER IN ENVIRONMENTAL TESTING

Client: Leidos Client Contact: Christine Navarero Date: 9/14/14 Chain of Custody Number: 24941

Address: 18912 N Creek Pl Ste 101 Telephone Number (Area Code)/Fax Number: 206.308.2144 Lab Number: 45232 Page: 1 of 1

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

Project Name and Location (State): NDES Sampling Support Washington Billing Contact: Cory Wilson

Contract/Purchase Order/Quote No.: NA Matrix: Unpres. H2SO4 HNO3 HCl NaOH ZnAc/NaOH

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

-1 QC-EB-01-20140903-W Date: 9/3/14 Time: 0650 Air: ✓ Aqueous: ✓ Sed.: ✓ Soil: ✓ Unpres.: 12 H2SO4: 2 HNO3: 2 HCl: 2 NaOH: 2 ZnAc/NaOH: 2

-2 CS-TS-01-20140903-W Date: 9/3/14 Time: 1200 Air: ✓ Aqueous: ✓ Sed.: ✓ Soil: ✓ Unpres.: 7 H2SO4: 1 HNO3: 1 HCl: 1 NaOH: 1 ZnAc/NaOH: 1

-3 CS-SP-01-20140903-W Date: 9/3/14 Time: 1415 Air: ✓ Aqueous: ✓ Sed.: ✓ Soil: ✓ Unpres.: 7 H2SO4: 1 HNO3: 1 HCl: 1 NaOH: 1 ZnAc/NaOH: 1

-4 CS-CB-01-20140903-W Date: 9/3/14 Time: 1300 Air: ✓ Aqueous: ✓ Sed.: ✓ Soil: ✓ Unpres.: 3 H2SO4: ✓ HNO3: ✓ HCl: ✓ NaOH: ✓ ZnAc/NaOH: ✓

580-45232 Chain of Custody

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return to Client  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 \_\_\_\_\_ QC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: Cory Wilson Date: 9/14/14 Time: 0904 1. Received By: Francisco Luna Jr. Date: 9/14/14 Time: 0904

2. Relinquished By: Cory Wilson Date: 9/14/14 Time: \_\_\_\_\_ 2. Received By: Francisco Luna Jr. Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: Please contact Leidos PM prior to disposal of samples Two coolers total

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

## Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-45232-2

**Login Number: 45232**

**List Source: TestAmerica Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <6mm (1/4").	False	All 6 vials are way > 1/4"
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





September 23, 2014

**Vista Project I.D.: 1400647**

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 04, 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](mailto: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. 1400647**

**Case Narrative**

**Sample Condition on Receipt:**

Three aqueous samples and one sediment sample were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**EPA Method 1613**

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 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
1400647-01	QC-EB-01-20140903-W	03-Sep-14 06:30	04-Sep-14 10:14	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1400647-02	CS-TS-01-20140903-W	03-Sep-14 12:00	04-Sep-14 10:14	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1400647-03	CS-SP-01-20140903-W	03-Sep-14 14:15	04-Sep-14 10:14	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1400647-04	CS-CB-01-20140903-S	03-Sep-14 13:00	04-Sep-14 10:14	Amber Glass, 250mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank							EPA Method 1613B				
Matrix: Aqueous Sample Size: 1.00 L			QC Batch: B4I0020 Date Extracted: 08-Sep-2014 8:23			Lab Sample: B4I0020-BLK1 Date Analyzed: 09-Sep-14 18:41 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	1.15		0.943		IS 13C-2,3,7,8-TCDD	81.2	25 - 164		
1,2,3,7,8-PeCDD	ND	25.0	0.673		4.51		13C-1,2,3,7,8-PeCDD	80.6	25 - 181		
1,2,3,4,7,8-HxCDD	ND	25.0	1.92		2.21		13C-1,2,3,4,7,8-HxCDD	80.0	32 - 141		
1,2,3,6,7,8-HxCDD	ND	25.0	2.00		1.93		13C-1,2,3,6,7,8-HxCDD	81.6	28 - 130		
1,2,3,7,8,9-HxCDD	ND	25.0	2.08		2.02		13C-1,2,3,7,8,9-HxCDD	76.7	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	25.0	1.46		2.98		13C-1,2,3,4,6,7,8-HpCDD	76.1	23 - 140		
OCDD	ND	50.0	2.94		3.57		13C-OCDD	78.1	17 - 157		
2,3,7,8-TCDF	ND	5.00	0.556		0.984		13C-2,3,7,8-TCDF	78.5	24 - 169		
1,2,3,7,8-PeCDF	ND	25.0	0.793		2.50		13C-1,2,3,7,8-PeCDF	71.7	24 - 185		
2,3,4,7,8-PeCDF	ND	25.0	0.733		1.73		13C-2,3,4,7,8-PeCDF	77.6	21 - 178		
1,2,3,4,7,8-HxCDF	ND	25.0	0.834		1.36		13C-1,2,3,4,7,8-HxCDF	83.9	26 - 152		
1,2,3,6,7,8-HxCDF	ND	25.0	0.885		1.56		13C-1,2,3,6,7,8-HxCDF	73.8	26 - 123		
2,3,4,6,7,8-HxCDF	ND	25.0	0.526		2.05		13C-2,3,4,6,7,8-HxCDF	76.6	28 - 136		
1,2,3,7,8,9-HxCDF	ND	25.0	0.703		1.34		13C-1,2,3,7,8,9-HxCDF	79.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	25.0	1.04		1.46		13C-1,2,3,4,6,7,8-HpCDF	83.5	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	25.0	0.799		1.75		13C-1,2,3,4,7,8,9-HpCDF	80.2	26 - 138		
OCDF	ND	50.0	1.66		2.98		13C-OCDF	73.3	17 - 157		
							CRS 37Cl-2,3,7,8-TCDD	92.0	35 - 197		
							<b>Toxic Equivalent Quotient (TEQ) Data</b>				
							TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>											
Total TCDD	ND		1.15								
Total PeCDD	ND			0.400							
Total HxCDD	ND		3.29								
Total HpCDD	ND		2.29								
Total TCDF	ND		0.556								
Total PeCDF	ND		1.27								
Total HxCDF	ND		1.02								
Total HpCDF	ND		1.10								

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: B4I0020 Date Extracted: 08-Sep-2014 8:23		Lab Sample: B4I0020-BS1 Date Analyzed: 09-Sep-14 16:16 Column: ZB-5MS Analyst: MAS			
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	220	200	110	67 - 158	IS 13C-2,3,7,8-TCDD	75.2	20 - 175
1,2,3,7,8-PeCDD	1140	1000	114	70 - 142	13C-1,2,3,7,8-PeCDD	73.7	21 - 227
1,2,3,4,7,8-HxCDD	1110	1000	111	70 - 164	13C-1,2,3,4,7,8-HxCDD	74.1	21 - 193
1,2,3,6,7,8-HxCDD	1180	1000	118	76 - 134	13C-1,2,3,6,7,8-HxCDD	72.4	25 - 163
1,2,3,7,8,9-HxCDD	1130	1000	113	64 - 162	13C-1,2,3,7,8,9-HxCDD	70.4	21 - 193
1,2,3,4,6,7,8-HpCDD	1180	1000	118	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	68.7	26 - 166
OCDD	2230	2000	112	78 - 144	13C-OCDD	68.8	13 - 199
2,3,7,8-TCDF	225	200	113	75 - 158	13C-2,3,7,8-TCDF	69.3	22 - 152
1,2,3,7,8-PeCDF	1130	1000	113	80 - 134	13C-1,2,3,7,8-PeCDF	62.3	21 - 192
2,3,4,7,8-PeCDF	1200	1000	120	68 - 160	13C-2,3,4,7,8-PeCDF	65.9	13 - 328
1,2,3,4,7,8-HxCDF	1130	1000	113	72 - 134	13C-1,2,3,4,7,8-HxCDF	75.4	19 - 202
1,2,3,6,7,8-HxCDF	1120	1000	112	84 - 130	13C-1,2,3,6,7,8-HxCDF	66.5	21 - 159
2,3,4,6,7,8-HxCDF	1150	1000	115	70 - 156	13C-2,3,4,6,7,8-HxCDF	66.9	22 - 176
1,2,3,7,8,9-HxCDF	1120	1000	112	78 - 130	13C-1,2,3,7,8,9-HxCDF	72.0	17 - 205
1,2,3,4,6,7,8-HpCDF	1090	1000	109	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	74.3	21 - 158
1,2,3,4,7,8,9-HpCDF	1100	1000	110	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	74.2	20 - 186
OCDF	2200	2000	110	63 - 170	13C-OCDF	65.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	93.4	31 - 191

LCL-UCL - Lower control limit - upper control limit



**Sample ID: QC-EB-01-20140903-W** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Leidos	Matrix: Aqueous	Lab Sample: 1400647-01      Date Received: 04-Sep-2014 10:14
Project: NPDES Sampling Support	Sample Size: 0.947 L	QC Batch: B4I0020      Date Extracted: 08-Sep-2014 8:23
Date Collected: 03-Sep-2014 6:30		Date Analyzed: 09-Sep-14 20:17      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	5.28	0.718		0.943		IS 13C-2,3,7,8-TCDD	81.2	25 - 164	
1,2,3,7,8-PeCDD	ND	26.4	0.677		4.51		13C-1,2,3,7,8-PeCDD	76.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	26.4	1.46		2.21		13C-1,2,3,4,7,8-HxCDD	78.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	26.4	1.49		1.93		13C-1,2,3,6,7,8-HxCDD	79.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	26.4	1.50		2.02		13C-1,2,3,7,8,9-HxCDD	78.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	26.4	3.62		2.98		13C-1,2,3,4,6,7,8-HpCDD	72.3	23 - 140	
OCDD	ND	52.8	5.08		3.57		13C-OCDD	66.0	17 - 157	
2,3,7,8-TCDF	ND	5.28	0.476		0.984		13C-2,3,7,8-TCDF	78.8	24 - 169	
1,2,3,7,8-PeCDF	ND	26.4	0.406		2.50		13C-1,2,3,7,8-PeCDF	67.8	24 - 185	
2,3,4,7,8-PeCDF	ND	26.4	0.734		1.73		13C-2,3,4,7,8-PeCDF	69.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	26.4	0.591		1.36		13C-1,2,3,4,7,8-HxCDF	80.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	26.4	0.644		1.56		13C-1,2,3,6,7,8-HxCDF	67.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	26.4	0.489		2.05		13C-2,3,4,6,7,8-HxCDF	73.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	26.4	0.664		1.34		13C-1,2,3,7,8,9-HxCDF	77.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	26.4	1.16		1.46		13C-1,2,3,4,6,7,8-HpCDF	80.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	26.4	0.599		1.75		13C-1,2,3,4,7,8,9-HpCDF	73.1	26 - 138	
OCDF	ND	52.8	2.66		2.98		13C-OCDF	61.4	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197	

							<b>Toxic Equivalent Quotient (TEQ) Data</b>			
							TEQMinWHO2005Dioxin	0.00		

<b>TOTALS</b>										
Total TCDD	ND		0.718							
Total PeCDD	ND		0.677							
Total HxCDD	ND		2.37							
Total HpCDD	ND		5.04							
Total TCDF	ND		0.476							
Total PeCDF	ND		0.743							
Total HxCDF	ND		0.711							
Total HpCDF	ND		1.23							

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: CS-TS-01-20140903-W** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Leidos	Matrix: Aqueous	Lab Sample: 1400647-02      Date Received: 04-Sep-2014 10:14
Project: NPDES Sampling Support	Sample Size: 0.973 L	QC Batch: B4I0020      Date Extracted: 08-Sep-2014 8:23
Date Collected: 03-Sep-2014 12:00		Date Analyzed: 09-Sep-14 21:05      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	5.14	0.949		0.943		IS 13C-2,3,7,8-TCDD	86.7	25 - 164	
1,2,3,7,8-PeCDD	ND	25.7	0.513		4.51		13C-1,2,3,7,8-PeCDD	83.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	25.7	1.68		2.21		13C-1,2,3,4,7,8-HxCDD	89.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	25.7	1.58		1.93		13C-1,2,3,6,7,8-HxCDD	92.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	25.7	1.95		2.02		13C-1,2,3,7,8,9-HxCDD	87.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.99	25.7			2.98	J	13C-1,2,3,4,6,7,8-HpCDD	85.1	23 - 140	
OCDD	20.6	51.4			3.57	J	13C-OCDD	83.8	17 - 157	
2,3,7,8-TCDF	ND	5.14	0.567		0.984		13C-2,3,7,8-TCDF	85.1	24 - 169	
1,2,3,7,8-PeCDF	ND	25.7	0.584		2.50		13C-1,2,3,7,8-PeCDF	74.6	24 - 185	
2,3,4,7,8-PeCDF	ND	25.7	0.618		1.73		13C-2,3,4,7,8-PeCDF	77.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	25.7	0.630		1.36		13C-1,2,3,4,7,8-HxCDF	89.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	25.7	0.661		1.56		13C-1,2,3,6,7,8-HxCDF	79.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	25.7	0.781		2.05		13C-2,3,4,6,7,8-HxCDF	82.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	25.7	1.05		1.34		13C-1,2,3,7,8,9-HxCDF	87.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	25.7	1.01		1.46		13C-1,2,3,4,6,7,8-HpCDF	93.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	25.7	0.830		1.75		13C-1,2,3,4,7,8,9-HpCDF	90.2	26 - 138	
OCDF	ND	51.4	2.02		2.98		13C-OCDF	80.3	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	96.2	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data**

TEQMinWHO2005Dioxin      0.0461

<b>TOTALS</b>	
Total TCDD	ND      0.949
Total PeCDD	ND      0.513
Total HxCDD	ND      2.47
Total HpCDD	8.35
Total TCDF	ND      0.567
Total PeCDF	ND      0.813
Total HxCDF	ND      1.35
Total HpCDF	ND      1.90

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: CS-SP-01-20140903-W** **EPA Method 1613B**

<b>Client Data</b> Name: Leidos Project: NPDES Sampling Support Date Collected: 03-Sep-2014 14:15	<b>Sample Data</b> Matrix: Aqueous Sample Size: 1.01 L	<b>Laboratory Data</b> Lab Sample: 1400647-03      Date Received: 04-Sep-2014 10:14 QC Batch: B4I0020              Date Extracted: 08-Sep-2014 8:23 Date Analyzed: 09-Sep-14 21:53      Column: ZB-5MS      Analyst: MAS
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Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	4.95	0.869		0.943		IS 13C-2,3,7,8-TCDD	84.9	25 - 164	
1,2,3,7,8-PeCDD	ND	24.7	0.759		4.51		13C-1,2,3,7,8-PeCDD	81.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	24.7	2.61		2.21		13C-1,2,3,4,7,8-HxCDD	88.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	24.7	2.70		1.93		13C-1,2,3,6,7,8-HxCDD	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	24.7	2.86		2.02		13C-1,2,3,7,8,9-HxCDD	86.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	15.9	24.7			2.98	J	13C-1,2,3,4,6,7,8-HpCDD	84.7	23 - 140	
OCDD	103	49.5			3.57		13C-OCDD	84.9	17 - 157	
2,3,7,8-TCDF	ND	4.95	0.696		0.984		13C-2,3,7,8-TCDF	83.2	24 - 169	
1,2,3,7,8-PeCDF	ND	24.7	0.965		2.50		13C-1,2,3,7,8-PeCDF	68.0	24 - 185	
2,3,4,7,8-PeCDF	ND	24.7	0.986		1.73		13C-2,3,4,7,8-PeCDF	70.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	24.7	0.507		1.36		13C-1,2,3,4,7,8-HxCDF	88.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	24.7	0.521		1.56		13C-1,2,3,6,7,8-HxCDF	75.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	24.7	0.640		2.05		13C-2,3,4,6,7,8-HxCDF	80.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	24.7	0.793		1.34		13C-1,2,3,7,8,9-HxCDF	89.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.08	24.7			1.46	J	13C-1,2,3,4,6,7,8-HpCDF	96.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	24.7	0.864		1.75		13C-1,2,3,4,7,8,9-HpCDF	89.4	26 - 138	
OCDF	5.42	49.5			2.98	J	13C-OCDF	77.6	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	94.5	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data**

TEQMinWHO2005Dioxin	0.222
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<b>TOTALS</b>		
Total TCDD	ND	0.869
Total PeCDD	ND	1.34
Total HxCDD	1.73	4.70
Total HpCDD	33.4	
Total TCDF	ND	0.696
Total PeCDF	1.43	
Total HxCDF	0.768	2.74
Total HpCDF	6.40	

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	QC Batch: B4I0031	Lab Sample: B4I0031-BLK1
Sample Size: 5.00 g	Date Extracted: 10-Sep-2014 9:14	Date Analyzed: 12-Sep-14 17:31 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	1.00	0.135		0.0778		IS 13C-2,3,7,8-TCDD	67.9	25 - 164	
1,2,3,7,8-PeCDD	ND	5.00	0.135		0.230		13C-1,2,3,7,8-PeCDD	77.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	5.00	0.197		0.231		13C-1,2,3,4,7,8-HxCDD	93.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	5.00	0.206		0.126		13C-1,2,3,6,7,8-HxCDD	93.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	5.00	0.202		0.173		13C-1,2,3,7,8,9-HxCDD	97.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	5.00	0.277		0.263		13C-1,2,3,4,6,7,8-HpCDD	94.7	23 - 140	
OCDD	ND	10.0	0.425		0.167		13C-OCDD	97.1	17 - 157	
2,3,7,8-TCDF	ND	1.00	0.161		0.0289		13C-2,3,7,8-TCDF	62.4	24 - 169	
1,2,3,7,8-PeCDF	ND	5.00	0.167		0.254		13C-1,2,3,7,8-PeCDF	68.6	24 - 185	
2,3,4,7,8-PeCDF	ND	5.00	0.180		0.211		13C-2,3,4,7,8-PeCDF	66.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	5.00	0.138		0.154		13C-1,2,3,4,7,8-HxCDF	94.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	5.00	0.147		0.195		13C-1,2,3,6,7,8-HxCDF	77.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	5.00	0.0987		0.0805		13C-2,3,4,6,7,8-HxCDF	86.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	5.00	0.124		0.195		13C-1,2,3,7,8,9-HxCDF	89.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	5.00	0.141		0.230		13C-1,2,3,4,6,7,8-HpCDF	97.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	5.00	0.0879		0.211		13C-1,2,3,4,7,8,9-HpCDF	94.9	26 - 138	
OCDF	ND	10.0	0.222		0.470		13C-OCDF	92.3	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	67.6	35 - 197	

<b>Toxic Equivalent Quotient (TEQ) Data</b>	
TEQMinWHO2005Dioxin	0.00

<b>TOTALS</b>		
Total TCDD	ND	0.135
Total PeCDD	ND	0.297
Total HxCDD	ND	0.301
Total HpCDD	ND	0.880
Total TCDF	ND	0.161
Total PeCDF	ND	0.287
Total HxCDF	ND	0.167
Total HpCDF	ND	0.144

DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration

MDL - Method detection limit  
RL - Reporting limit

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 5.00 g		QC Batch: B4I0031 Date Extracted: 10-Sep-2014 9:14		Lab Sample: B4I0031-BS1 Date Analyzed: 12-Sep-14 15:06 Column: ZB-5MS Analyst: MAS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	38.3	40.0	95.7	67 - 158	IS 13C-2,3,7,8-TCDD	81.7	20 - 175
1,2,3,7,8-PeCDD	195	200	97.4	70 - 142	13C-1,2,3,7,8-PeCDD	80.6	21 - 227
1,2,3,4,7,8-HxCDD	188	200	93.8	70 - 164	13C-1,2,3,4,7,8-HxCDD	89.6	21 - 193
1,2,3,6,7,8-HxCDD	198	200	98.9	76 - 134	13C-1,2,3,6,7,8-HxCDD	90.1	25 - 163
1,2,3,7,8,9-HxCDD	191	200	95.4	64 - 162	13C-1,2,3,7,8,9-HxCDD	88.5	21 - 193
1,2,3,4,6,7,8-HpCDD	199	200	99.5	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	85.7	26 - 166
OCDD	381	400	95.1	78 - 144	13C-OCDD	87.7	13 - 199
2,3,7,8-TCDF	40.9	40.0	102	75 - 158	13C-2,3,7,8-TCDF	72.5	22 - 152
1,2,3,7,8-PeCDF	194	200	96.9	80 - 134	13C-1,2,3,7,8-PeCDF	72.1	21 - 192
2,3,4,7,8-PeCDF	200	200	100	68 - 160	13C-2,3,4,7,8-PeCDF	76.1	13 - 328
1,2,3,4,7,8-HxCDF	194	200	97.0	72 - 134	13C-1,2,3,4,7,8-HxCDF	95.3	19 - 202
1,2,3,6,7,8-HxCDF	193	200	96.5	84 - 130	13C-1,2,3,6,7,8-HxCDF	79.6	21 - 159
2,3,4,6,7,8-HxCDF	191	200	95.7	70 - 156	13C-2,3,4,6,7,8-HxCDF	82.9	22 - 176
1,2,3,7,8,9-HxCDF	196	200	97.8	78 - 130	13C-1,2,3,7,8,9-HxCDF	84.3	17 - 205
1,2,3,4,6,7,8-HpCDF	182	200	91.0	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	91.4	21 - 158
1,2,3,4,7,8,9-HpCDF	184	200	92.0	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	92.5	20 - 186
OCDF	389	400	97.3	63 - 170	13C-OCDF	84.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	83.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: CS-CB-01-20140903-S** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Leidos	Matrix: Sediment	Lab Sample: 1400647-04      Date Received: 04-Sep-2014 10:14
Project: NPDES Sampling Support	Sample Size: 12.3 g	QC Batch: B410031      Date Extracted: 10-Sep-2014 9:14
Date Collected: 03-Sep-2014 13:00	% Solids: 40.7	Date Analyzed: 15-Sep-14 19:17      Column: DB-225      Analyst: CVG
		16-Sep-14 20:41      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	0.999		0.693	0.0778		IS 13C-2,3,7,8-TCDD	84.4	25 - 164	
1,2,3,7,8-PeCDD	3.36	5.00			0.230	J	13C-1,2,3,7,8-PeCDD	87.1	25 - 181	
1,2,3,4,7,8-HxCDD	5.45	5.00			0.231		13C-1,2,3,4,7,8-HxCDD	86.4	32 - 141	
1,2,3,6,7,8-HxCDD	16.3	5.00			0.126		13C-1,2,3,6,7,8-HxCDD	93.6	28 - 130	
1,2,3,7,8,9-HxCDD	11.4	5.00			0.173		13C-1,2,3,7,8,9-HxCDD	97.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	364	5.00			0.263		13C-1,2,3,4,6,7,8-HpCDD	92.5	23 - 140	
OCDD	3130	9.99			0.167		13C-OCDD	101	17 - 157	
2,3,7,8-TCDF	3.42	0.999			0.0289		13C-2,3,7,8-TCDF	78.5	24 - 169	
1,2,3,7,8-PeCDF	2.79	5.00			0.254	J	13C-1,2,3,7,8-PeCDF	86.8	24 - 185	
2,3,4,7,8-PeCDF	4.49	5.00			0.211	J	13C-2,3,4,7,8-PeCDF	84.2	21 - 178	
1,2,3,4,7,8-HxCDF	6.45	5.00			0.154		13C-1,2,3,4,7,8-HxCDF	86.7	26 - 152	
1,2,3,6,7,8-HxCDF	5.53	5.00			0.195		13C-1,2,3,6,7,8-HxCDF	82.8	26 - 123	
2,3,4,6,7,8-HxCDF	7.08	5.00			0.0805		13C-2,3,4,6,7,8-HxCDF	86.3	28 - 136	
1,2,3,7,8,9-HxCDF	1.26	5.00			0.195	J	13C-1,2,3,7,8,9-HxCDF	90.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	77.1	5.00			0.230		13C-1,2,3,4,6,7,8-HpCDF	96.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.06	5.00			0.211		13C-1,2,3,4,7,8,9-HpCDF	98.0	26 - 138	
OCDF	144	9.99			0.470		13C-OCDF	91.6	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	86.0	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data**

TEQMinWHO2005Dioxin      15.9

<b>TOTALS</b>		
Total TCDD	14.6	17.9
Total PeCDD	35.7	
Total HxCDD	136	
Total HpCDD	708	
Total TCDF	76.1	
Total PeCDF	87.1	87.5
Total HxCDF	108	
Total HpCDF	171	

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: B4I0025	Lab Sample: B4I0025-BLK1
Sample Size: 1.00 L	Date Extracted: 09-Sep-2014 8:20	Date Analyzed: 11-Sep-14 03:13 Column: ZB-1 Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	5.00	1.45		1.21		PCB-43/49	ND	10.0	1.62		3.38	
PCB-2	ND	5.00	1.66		1.75		PCB-44	ND	5.00	1.96		2.48	
PCB-3	ND	5.00	1.61		1.49		PCB-45	ND	5.00	1.87		1.96	
PCB-4/10	ND	20.0	7.35		5.64		PCB-46	ND	5.00	1.90		2.49	
PCB-5/8	ND	20.0	6.01		3.59		PCB-47	ND	5.00	1.63		4.42	
PCB-6	ND	10.0	5.88		3.10		PCB-48/75	ND	10.0	1.41		2.09	
PCB-7/9	ND	20.0	5.85		6.22		PCB-50	ND	5.00	1.40		1.40	
PCB-11	8.42	10.0			3.86	J	PCB-51	ND	5.00	1.56		1.42	
PCB-12/13	ND	20.0	6.23		5.01		PCB-52/69	ND	10.0		1.12	3.64	
PCB-14	ND	10.0	5.56		3.98		PCB-53	ND	5.00	1.52		1.12	
PCB-15	ND	10.0	5.67		2.53		PCB-54	ND	5.00	1.13		1.51	
PCB-16/32	1.80	10.0			2.87	J	PCB-55	ND	5.00	1.57		1.19	
PCB-17	0.773	5.00			1.37	J	PCB-56/60	ND	10.0	1.61		2.19	
PCB-18	1.92	5.00			2.57	J	PCB-57	ND	5.00	1.57		0.857	
PCB-19	ND	5.00	0.780		2.38		PCB-58	ND	5.00	1.58		1.81	
PCB-20/21/33	1.77	15.0			10.3	J	PCB-61/70	ND	10.0		1.19	2.40	
PCB-22	ND	5.00	0.796		3.17		PCB-62	ND	5.00	1.43		1.46	
PCB-23	ND	5.00	0.803		1.35		PCB-63	ND	5.00	1.56		0.696	
PCB-24/27	ND	10.0	0.607		3.16		PCB-65	ND	5.00	1.38		0.953	
PCB-25	ND	5.00	0.783		3.34		PCB-67	ND	5.00	1.63		1.22	
PCB-26	ND	5.00	0.815		2.19		PCB-68	ND	5.00	1.24		1.24	
PCB-28	ND	5.00		1.11	2.90		PCB-73	ND	5.00	1.31		1.56	
PCB-29	ND	5.00	0.792		1.60		PCB-74	ND	5.00	1.45		1.53	
PCB-30	ND	5.00	0.552		2.09		PCB-76/66	ND	10.0	1.54		2.82	
PCB-31	1.66	5.00			4.29	J	PCB-77	ND	5.00	1.66		1.34	
PCB-34	ND	5.00	0.834		2.34		PCB-78	ND	5.00	1.65		0.990	
PCB-35	ND	5.00	0.862		1.65		PCB-79	ND	5.00	1.55		1.60	
PCB-36	ND	5.00	0.862		2.69		PCB-80	ND	5.00	1.37		1.98	
PCB-37	ND	5.00	0.853		1.92		PCB-81	ND	5.00	1.48		2.34	
PCB-38	ND	5.00	0.876		1.56		PCB-82	ND	5.00	2.85		1.69	
PCB-39	ND	5.00	0.836		2.60		PCB-83	ND	5.00	1.70		1.32	
PCB-40	ND	5.00	2.25		3.08		PCB-84/92	ND	10.0	2.19		3.38	
PCB-41/64/71/72	ND	20.0	1.40		5.57		PCB-85/116	ND	10.0	1.99		2.83	
PCB-42/59	ND	10.0	1.51		2.84		PCB-86	ND	5.00	2.53		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: B4I0025	Lab Sample: B4I0025-BLK1
Sample Size: 1.00 L	Date Extracted: 09-Sep-2014 8:20	Date Analyzed: 11-Sep-14 03:13 Column: ZB-1 Analyst: MAS

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	1.66		3.79		PCB-133/142	ND	10.0	1.84		2.19	
PCB-88/91	ND	5.00	2.36		3.25		PCB-134/143	ND	10.0	1.87		2.40	
PCB-89	ND	5.00	2.26		1.84		PCB-135	ND	5.00	2.70		2.90	
PCB-90/101	ND	10.0	1.93		1.92		PCB-136	ND	5.00	1.94		2.89	
PCB-93	ND	5.00	2.13		1.47		PCB-137	ND	5.00	1.68		2.08	
PCB-94	ND	5.00	2.18		1.91		PCB-138/163/164	3.34	15.0			2.68	J
PCB-95/98/102	ND	15.0	1.99		6.58		PCB-139/149	ND	10.0	2.50		7.87	
PCB-96	ND	5.00	1.20		2.16		PCB-140	ND	5.00	2.68		3.52	
PCB-97	ND	5.00	2.07		1.24		PCB-141	ND	5.00	1.85		1.15	
PCB-99	ND	5.00	1.78		1.94		PCB-144	ND	5.00	2.57		3.22	
PCB-100	ND	5.00	1.30		2.03		PCB-145	ND	5.00	1.93		1.73	
PCB-103	ND	5.00	1.40		2.28		PCB-146/165	ND	10.0	1.50		1.91	
PCB-104	ND	5.00	1.04		0.931		PCB-147	ND	5.00	2.54		3.62	
PCB-105	ND	5.00	1.38		2.21		PCB-148	ND	5.00	2.84		1.68	
PCB-106/118	ND	10.0	1.66		2.44		PCB-150	ND	5.00	1.98		1.14	
PCB-107/109	ND	10.0	1.73		1.98		PCB-151	ND	5.00	2.61		3.59	
PCB-108/112	ND	10.0	2.01		1.86		PCB-152	ND	5.00	1.92		1.82	
PCB-110	ND	5.00	1.54		1.94		PCB-153	ND	5.00		1.63	1.83	
PCB-111/115	ND	10.0	1.48		0.768		PCB-154	ND	5.00	2.38		2.78	
PCB-113	ND	5.00	1.70		1.31		PCB-155	ND	5.00	1.86		1.45	
PCB-114	ND	5.00	1.42		1.81		PCB-156	ND	5.00	1.59		1.74	
PCB-119	ND	5.00	1.50		0.949		PCB-157	ND	5.00	1.71		1.17	
PCB-120	ND	5.00	1.45		1.01		PCB-158/160	ND	10.0	1.52		1.99	
PCB-121	ND	5.00	1.27		1.94		PCB-159	ND	5.00	1.44		1.20	
PCB-122	ND	5.00	1.55		1.84		PCB-166	ND	5.00	1.51		0.920	
PCB-123	ND	5.00	1.73		1.35		PCB-167	ND	5.00	1.55		1.65	
PCB-124	ND	5.00	1.59		1.79		PCB-168	ND	5.00	1.27		0.933	
PCB-126	ND	5.00	1.55		2.05		PCB-169	ND	5.00	1.80		1.12	
PCB-127	ND	5.00	1.45		0.808		PCB-170	ND	5.00	2.37		1.38	
PCB-128/162	ND	10.0	1.65		1.68		PCB-171	ND	5.00	2.27		1.61	
PCB-129	ND	5.00	2.11		1.11		PCB-172	ND	5.00	2.44		1.46	
PCB-130	ND	5.00	2.12		2.21		PCB-173	ND	5.00	2.57		1.49	
PCB-131	ND	5.00	1.90		1.46		PCB-174	ND	5.00	2.23		1.42	
PCB-132/161	ND	10.0	1.56		2.34		PCB-175	ND	5.00	1.79		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: B4I0025	Lab Sample: B4I0025-BLK1
Sample Size: 1.00 L	Date Extracted: 09-Sep-2014 8:20	Date Analyzed: 11-Sep-14 03:13 Column: ZB-1 Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	5.00	1.27		2.17		Total triCB	7.92	5.00		9.03		
PCB-177	ND	5.00	2.40		1.34		Total tetraCB	ND	5.00		2.31		
PCB-178	ND	5.00	1.85		2.25		Total pentaCB	ND	5.00	2.85			
PCB-179	ND	5.00	1.33		1.57		Total hexaCB	3.34	5.00		4.97		J
PCB-180	2.44	5.00			0.610	J	Total heptaCB	2.44	5.00				J
PCB-181	ND	5.00	2.19		1.01		Total octaCB	ND	5.00	2.35			
PCB-182/187	ND	10.0	1.71		6.20		Total nonaCB	ND	5.00	2.08			
PCB-183	ND	5.00	1.60		3.29		DecaCB	ND	5.00	1.26			
PCB-184	ND	5.00	1.40		1.25		Total PCB	22.1	10.0				
PCB-185	ND	5.00	2.22		1.47								
PCB-186	ND	5.00	1.36		2.43								
PCB-188	ND	5.00	1.23		1.08								
PCB-189	ND	5.00	1.73		1.49								
PCB-190	ND	5.00	1.76		1.70								
PCB-191	ND	5.00	1.78		1.96								
PCB-192	ND	5.00	1.95		1.69								
PCB-193	ND	5.00	1.80		1.46								
PCB-194	ND	5.00	1.16		1.71								
PCB-195	ND	5.00	1.21		1.47								
PCB-196/203	ND	10.0	2.22		6.35								
PCB-197	ND	5.00	1.60		1.80								
PCB-198	ND	5.00	2.31		3.78								
PCB-199	ND	5.00	2.35		4.05								
PCB-200	ND	5.00	1.68		1.75								
PCB-201	ND	5.00	1.55		1.02								
PCB-202	ND	5.00	1.65		1.55								
PCB-204	ND	5.00	1.72		1.48								
PCB-205	ND	5.00	1.03		1.53								
PCB-206	ND	5.00	2.08		1.32								
PCB-207	ND	5.00	1.24		1.51								
PCB-208	ND	5.00	1.18		1.34								
PCB-209	ND	5.00	1.26		1.86								
Total monoCB	ND	5.00	1.66										
Total diCB	8.42	10.0				J							

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: B4I0025	Lab Sample: B4I0025-BLK1
Sample Size: 1.00 L	Date Extracted: 09-Sep-2014 8:20	Date Analyzed: 11-Sep-14 03:13 Column: ZB-1 Analyst: MAS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	92.9	5-145		13C-PCB-157	87.5	10-145	
13C-PCB-3	87.8	5-145		13C-PCB-159	97.5	10-145	
13C-PCB-4	85.3	5-145		13C-PCB-167	95.4	10-145	
13C-PCB-11	87.4	5-145		13C-PCB-169	83.8	10-145	
13C-PCB-9	88.1	5-145		13C-PCB-170	58.3	10-145	
13C-PCB-19	76.6	5-145		13C-PCB-180	60.6	10-145	
13C-PCB-28	80.1	5-145		13C-PCB-188	73.4	10-145	
13C-PCB-32	72.1	5-145		13C-PCB-189	58.3	10-145	
13C-PCB-37	82.2	5-145		13C-PCB-194	93.4	10-145	
13C-PCB-47	108	5-145		13C-PCB-202	40.1	10-145	
13C-PCB-52	111	5-145		13C-PCB-206	75.0	10-145	
13C-PCB-54	126	5-145		13C-PCB-208	69.9	10-145	
13C-PCB-70	91.7	5-145		13C-PCB-209	66.2	10-145	
13C-PCB-77	87.3	10-145		CRS 13C-PCB-79	102	10-145	
13C-PCB-80	91.3	10-145		13C-PCB-178	76.9	10-145	
13C-PCB-81	90.5	10-145					
13C-PCB-95	94.2	10-145					
13C-PCB-97	93.6	10-145					
13C-PCB-101	94.3	10-145					
13C-PCB-104	126	10-145					
13C-PCB-105	135	10-145					
13C-PCB-114	134	10-145					
13C-PCB-118	84.3	10-145					
13C-PCB-123	85.7	10-145					
13C-PCB-126	136	10-145					
13C-PCB-127	137	10-145					
13C-PCB-138	100	10-145					
13C-PCB-141	104	10-145					
13C-PCB-153	102	10-145					
13C-PCB-155	60.0	10-145					
13C-PCB-156	89.2	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 L

QC Batch: B4I0025  
Date Extracted: 09-Sep-2014 8:20

Lab Sample: B4I0025-BS1  
Date Analyzed: 11-Sep-14 01:05 Column: ZB-1 Analyst: MAS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1020	1000	102	60 - 135	IS 13C-PCB-1	86.7	15 - 145
PCB-3	1020	1000	102	60 - 135	IS 13C-PCB-3	82.6	15 - 145
PCB-4/10	4780	4000	120	60 - 135	IS 13C-PCB-4	83.3	15 - 145
PCB-15	2290	2000	115	60 - 135	IS 13C-PCB-11	87.7	15 - 145
PCB-19	1160	1000	116	60 - 135	IS 13C-PCB-9	85.3	15 - 145
PCB-37	1100	1000	110	60 - 135	IS 13C-PCB-19	69.0	15 - 145
PCB-54	1100	1000	110	60 - 135	IS 13C-PCB-28	87.0	15 - 145
PCB-77	1190	1000	119	60 - 135	IS 13C-PCB-32	70.9	15 - 145
PCB-81	1190	1000	119	60 - 135	IS 13C-PCB-37	82.8	15 - 145
PCB-104	1200	1000	120	60 - 135	IS 13C-PCB-47	92.8	15 - 145
PCB-105	1200	1000	120	60 - 135	IS 13C-PCB-52	92.8	15 - 145
PCB-106/118	2490	2000	124	60 - 135	IS 13C-PCB-54	102	15 - 145
PCB-114	1140	1000	114	60 - 135	IS 13C-PCB-70	95.7	15 - 145
PCB-126	1180	1000	118	60 - 135	IS 13C-PCB-77	92.9	40 - 145
PCB-155	1220	1000	122	60 - 135	IS 13C-PCB-80	95.2	40 - 145
PCB-156	1130	1000	113	60 - 135	IS 13C-PCB-81	92.8	40 - 145
PCB-157	1140	1000	114	60 - 135	IS 13C-PCB-95	96.5	40 - 145
PCB-167	1160	1000	116	60 - 135	IS 13C-PCB-97	95.8	40 - 145
PCB-169	1150	1000	115	60 - 135	IS 13C-PCB-101	96.6	40 - 145
PCB-188	1170	1000	117	60 - 135	IS 13C-PCB-104	94.2	40 - 145
PCB-189	1250	1000	125	60 - 135	IS 13C-PCB-105	119	40 - 145
PCB-202	1170	1000	117	60 - 135	IS 13C-PCB-114	117	40 - 145
PCB-205	1190	1000	119	60 - 135	IS 13C-PCB-118	93.2	40 - 145
PCB-206	1100	1000	110	60 - 135	IS 13C-PCB-123	93.3	40 - 145
PCB-208	1100	1000	110	60 - 135	IS 13C-PCB-126	123	40 - 145
PCB-209	1180	1000	118	60 - 135	IS 13C-PCB-127	121	40 - 145
					IS 13C-PCB-138	101	40 - 145
					IS 13C-PCB-141	100	40 - 145
					IS 13C-PCB-153	99.1	40 - 145
					IS 13C-PCB-155	65.6	40 - 145
					IS 13C-PCB-156	101	40 - 145
					IS 13C-PCB-157	99.1	40 - 145
					IS 13C-PCB-159	101	40 - 145
					IS 13C-PCB-167	99.8	40 - 145
					IS 13C-PCB-169	99.4	40 - 145
					IS 13C-PCB-170	76.7	40 - 145
					IS 13C-PCB-180	77.4	40 - 145
					IS 13C-PCB-188	74.9	40 - 145
					IS 13C-PCB-189	76.1	40 - 145
					IS 13C-PCB-194	96.3	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Aqueous  
Sample Size: 1.00 L

QC Batch: B4I0025  
Date Extracted: 09-Sep-2014 8:20

Lab Sample: B4I0025-BS1  
Date Analyzed: 11-Sep-14 01:05 Column: ZB-1 Analyst: MAS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	55.3	40 - 145
					IS 13C-PCB-206	93.0	40 - 145
					IS 13C-PCB-208	83.5	40 - 145
					IS 13C-PCB-209	93.7	40 - 145
					CRS 13C-PCB-79	106	40 - 145
					CRS 13C-PCB-178	85.6	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: QC-EB-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-01		Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	0.980 L		QC Batch:	B410025		Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 6:30						Date Analyzed :	11-Sep-14 04:17		Column:	ZB-1 Analyst: MAS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	2.58	5.10			1.21	J	PCB-44	9.99	5.10			2.48	
PCB-2	1.55	5.10			1.75	J	PCB-45	1.87	5.10			1.96	J
PCB-3	1.79	5.10			1.49	J	PCB-46	ND	5.10	1.37		2.49	
PCB-4/10	ND	20.4	4.59		5.64		PCB-47	4.45	5.10			4.42	J
PCB-5/8	9.67	20.4			3.59	J	PCB-48/75	ND	10.2		1.59	2.09	
PCB-6	ND	10.2	3.66		3.10		PCB-50	ND	5.10	0.971		1.40	
PCB-7/9	ND	20.4	3.63		6.22		PCB-51	ND	5.10	1.13		1.42	
PCB-11	29.8	10.2			3.86	B	PCB-52/69	14.0	10.2			3.64	
PCB-12/13	ND	20.4	3.86		5.01		PCB-53	ND	5.10		1.19	1.12	
PCB-14	ND	10.2	3.44		3.98		PCB-54	ND	5.10	0.783		1.51	
PCB-15	ND	10.2	3.51		2.53		PCB-55	ND	5.10	0.936		1.19	
PCB-16/32	7.58	10.2			2.87	J, B	PCB-56/60	4.73	10.2			2.19	J
PCB-17	4.12	5.10			1.37	J, B	PCB-57	ND	5.10	0.937		0.857	
PCB-18	9.60	5.10			2.57	B	PCB-58	ND	5.10	0.948		1.81	
PCB-19	1.37	5.10			2.38	J	PCB-61/70	10.7	10.2			2.40	
PCB-20/21/33	5.69	15.3			10.3	J, B	PCB-62	ND	5.10	0.926		1.46	
PCB-22	3.13	5.10			3.17	J	PCB-63	ND	5.10	0.934		0.696	
PCB-23	ND	5.10	0.621		1.35		PCB-65	ND	5.10	0.897		0.953	
PCB-24/27	ND	10.2	0.638		3.16		PCB-67	ND	5.10	0.972		1.22	
PCB-25	0.880	5.10			3.34	J	PCB-68	ND	5.10	0.806		1.24	
PCB-26	1.38	5.10			2.19	J	PCB-73	ND	5.10	0.951		1.56	
PCB-28	7.86	5.10			2.90		PCB-74	3.75	5.10			1.53	J
PCB-29	ND	5.10	0.612		1.60		PCB-76/66	5.87	10.2			2.82	J
PCB-30	ND	5.10	0.602		2.09		PCB-77	ND	5.10	1.03		1.34	
PCB-31	8.28	5.10			4.29	B	PCB-78	ND	5.10	0.973		0.990	
PCB-34	ND	5.10	0.645		2.34		PCB-79	ND	5.10	0.924		1.60	
PCB-35	ND	5.10	0.623		1.65		PCB-80	ND	5.10	0.813		1.98	
PCB-36	ND	5.10	0.623		2.69		PCB-81	ND	5.10	0.871		2.34	
PCB-37	2.44	5.10			1.92	J	PCB-82	ND	5.10	3.70		1.69	
PCB-38	ND	5.10	0.633		1.56		PCB-83	ND	5.10	2.26		1.32	
PCB-39	ND	5.10	0.604		2.60		PCB-84/92	7.61	10.2			3.38	J
PCB-40	ND	5.10	1.46		3.08		PCB-85/116	3.28	10.2			2.83	J
PCB-41/64/71/72	8.69	20.4			5.57	J	PCB-86	ND	5.10	3.36		2.34	
PCB-42/59	2.75	10.2			2.84	J	PCB-87/117/125	8.26	15.3			3.79	J
PCB-43/49	6.32	10.2			3.38	J	PCB-88/91	ND	5.10		3.10	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: QC-EB-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-01		Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	0.980 L		QC Batch:	B410025		Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 6:30						Date Analyzed :	11-Sep-14 04:17		Column:	ZB-1 Analyst: MAS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	ND	5.10	2.77		1.84		PCB-136	2.77	5.10			2.89	J
PCB-90/101	19.7	10.2			1.92		PCB-137	1.58	5.10			2.08	J
PCB-93	ND	5.10	2.43		1.47		PCB-138/163/164	25.5	15.3			2.68	B
PCB-94	ND	5.10	2.48		1.91		PCB-139/149	13.3	10.2			7.87	
PCB-95/98/102	13.7	15.3			6.58	J	PCB-140	ND	5.10	2.77		3.52	
PCB-96	ND	5.10	1.70		2.16		PCB-141	4.40	5.10			1.15	J
PCB-97	6.71	5.10			1.24		PCB-144	ND	5.10	2.66		3.22	
PCB-99	ND	5.10		5.14	1.94		PCB-145	ND	5.10	1.99		1.73	
PCB-100	ND	5.10	1.86		2.03		PCB-146/165	3.18	10.2			1.91	J
PCB-103	ND	5.10	2.00		2.28		PCB-147	ND	5.10	2.63		3.62	
PCB-104	ND	5.10	1.48		0.931		PCB-148	ND	5.10	2.94		1.68	
PCB-105	6.89	5.10			2.21		PCB-150	ND	5.10	2.05		1.14	
PCB-106/118	17.3	10.2			2.44		PCB-151	3.44	5.10			3.59	J
PCB-107/109	ND	10.2	2.24		1.98		PCB-152	ND	5.10	1.98		1.82	
PCB-108/112	ND	10.2	2.66		1.86		PCB-153	18.9	5.10			1.83	
PCB-110	18.8	5.10			1.94		PCB-154	ND	5.10	2.46		2.78	
PCB-111/115	ND	10.2	1.96		0.768		PCB-155	ND	5.10	1.92		1.45	
PCB-113	ND	5.10	2.09		1.31		PCB-156	3.33	5.10			1.74	J
PCB-114	ND	5.10	1.30		1.81		PCB-157	ND	5.10	1.96		1.17	
PCB-119	ND	5.10	1.99		0.949		PCB-158/160	2.98	10.2			1.99	J
PCB-120	ND	5.10	1.93		1.01		PCB-159	ND	5.10	1.62		1.20	
PCB-121	ND	5.10	1.44		1.94		PCB-166	ND	5.10	1.69		0.920	
PCB-122	ND	5.10	1.43		1.84		PCB-167	1.30	5.10			1.65	J
PCB-123	ND	5.10	2.24		1.35		PCB-168	ND	5.10	1.43		0.933	
PCB-124	ND	5.10	2.07		1.79		PCB-169	ND	5.10	2.54		1.12	
PCB-126	ND	5.10	1.58		2.05		PCB-170	7.11	5.10			1.38	
PCB-127	ND	5.10	1.38		0.808		PCB-171	ND	5.10	2.23		1.61	
PCB-128/162	4.84	10.2			1.68	J	PCB-172	ND	5.10	2.40		1.46	
PCB-129	ND	5.10	2.48		1.11		PCB-173	ND	5.10	2.52		1.49	
PCB-130	ND	5.10		1.11	2.21		PCB-174	ND	5.10		5.34	1.42	
PCB-131	ND	5.10	2.14		1.46		PCB-175	ND	5.10	1.68		3.15	
PCB-132/161	5.82	10.2			2.34	J	PCB-176	ND	5.10	1.19		2.17	
PCB-133/142	ND	10.2	2.07		2.19		PCB-177	3.28	5.10			1.34	J
PCB-134/143	1.35	10.2			2.40	J	PCB-178	ND	5.10	1.73		2.25	
PCB-135	ND	5.10	2.79		2.90		PCB-179	ND	5.10		2.29	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: QC-EB-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-01		Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	0.980 L		QC Batch:	B4I0025		Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 6:30						Date Analyzed:	11-Sep-14 04:17		Column:	ZB-1 Analyst: MAS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	15.6	5.10			0.610	B	Total octaCB	14.3	5.10				
PCB-181	ND	5.10	2.15		1.01		Total nonaCB	2.56	5.10				J
PCB-182/187	5.24	10.2			6.20	J	DecaCB	ND	5.10	2.24			
PCB-183	3.12	5.10			3.29	J	Total PCB	417	10.2				B
PCB-184	ND	5.10	1.31		1.25								
PCB-185	ND	5.10	2.18		1.47								
PCB-186	ND	5.10	1.27		2.43								
PCB-188	ND	5.10	1.16		1.08								
PCB-189	ND	5.10	2.27		1.49								
PCB-190	ND	5.10	2.15		1.70								
PCB-191	ND	5.10	1.75		1.96								
PCB-192	ND	5.10	1.92		1.69								
PCB-193	ND	5.10	1.77		1.46								
PCB-194	3.83	5.10			1.71	J							
PCB-195	1.74	5.10			1.47	J							
PCB-196/203	4.47	10.2			6.35	J							
PCB-197	ND	5.10	2.22		1.80								
PCB-198	ND	5.10	3.21		3.78								
PCB-199	4.22	5.10			4.05	J							
PCB-200	ND	5.10	2.34		1.75								
PCB-201	ND	5.10	2.16		1.02								
PCB-202	ND	5.10	2.29		1.55								
PCB-204	ND	5.10	2.40		1.48								
PCB-205	ND	5.10	1.06		1.53								
PCB-206	2.56	5.10			1.32	J							
PCB-207	ND	5.10	1.29		1.51								
PCB-208	ND	5.10	1.23		1.34								
PCB-209	ND	5.10	2.24		1.86								
Total monoCB	5.91	5.10											
Total diCB	39.5	10.2				B							
Total triCB	52.3	5.10				B							
Total tetraCB	73.1	5.10		75.9									
Total pentaCB	102	5.10		111									
Total hexaCB	92.6	5.10		93.8		B							
Total heptaCB	34.4	5.10		42.0		B							

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: QC-EB-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Leidos	Matrix:	Aqueous	Lab Sample:	1400647-01
Project:	NPDES Sampling Support	Sample Size:	0.980 L	Date Received:	04-Sep-2014 10:14
Date Collected:	03-Sep-2014 6:30			QC Batch:	B4I0025
				Date Analyzed:	11-Sep-14 04:17
				Column:	ZB-1
				Analyst:	MAS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	95.6	5 -145		13C-PCB-170	44.9	10 -145	
13C-PCB-3	89.5	5 -145		13C-PCB-180	58.4	10 -145	
13C-PCB-4	89.9	5 -145		13C-PCB-188	74.8	10 -145	
13C-PCB-11	92.9	5 -145		13C-PCB-189	41.6	10 -145	
13C-PCB-9	94.0	5 -145		13C-PCB-194	98.9	10 -145	
13C-PCB-19	77.3	5 -145		13C-PCB-202	38.2	10 -145	
13C-PCB-28	90.6	5 -145		13C-PCB-206	76.9	10 -145	
13C-PCB-32	74.4	5 -145		13C-PCB-208	71.4	10 -145	
13C-PCB-37	93.7	5 -145		13C-PCB-209	62.1	10 -145	
13C-PCB-47	105	5 -145		CRS 13C-PCB-79	104	10 -145	
13C-PCB-52	106	5 -145		13C-PCB-178	76.9	10 -145	
13C-PCB-54	120	5 -145					
13C-PCB-70	96.4	5 -145					
13C-PCB-77	92.3	10 -145					
13C-PCB-80	97.5	10 -145					
13C-PCB-81	96.1	10 -145					
13C-PCB-95	106	10 -145					
13C-PCB-97	98.0	10 -145					
13C-PCB-101	101	10 -145					
13C-PCB-104	119	10 -145					
13C-PCB-105	139	10 -145					
13C-PCB-114	138	10 -145					
13C-PCB-118	89.3	10 -145					
13C-PCB-123	87.9	10 -145					
13C-PCB-126	134	10 -145					
13C-PCB-127	139	10 -145					
13C-PCB-138	99.3	10 -145					
13C-PCB-141	105	10 -145					
13C-PCB-153	106	10 -145					
13C-PCB-155	61.2	10 -145					
13C-PCB-156	89.9	10 -145					
13C-PCB-157	89.1	10 -145					
13C-PCB-159	99.2	10 -145					
13C-PCB-167	95.6	10 -145					
13C-PCB-169	67.7	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: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>								
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-02		Date Received:	04-Sep-2014 10:14				
Project:	NPDES Sampling Support			Sample Size:	0.934 L		QC Batch:	B4I0025		Date Extracted:	09-Sep-2014 8:20				
Date Collected:	03-Sep-2014 12:00						Date Analyzed :	11-Sep-14 05:21		Column:	ZB-1		Analyst:	DMS	
									11-Sep-14 23:55		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	11.4	5.35			1.21		PCB-44	66.4	5.35			2.48	
PCB-2	2.11	5.35			1.75	J	PCB-45	13.8	5.35			1.96	
PCB-3	3.96	5.35			1.49	J	PCB-46	5.68	5.35			2.49	
PCB-4/10	37.3	21.4			5.64		PCB-47	16.9	5.35			4.42	
PCB-5/8	83.8	21.4			3.59		PCB-48/75	13.8	10.7			2.09	
PCB-6	16.4	10.7			3.10		PCB-50	ND	5.35	0.998		1.40	
PCB-7/9	6.97	21.4			6.22	J	PCB-51	3.58	5.35			1.42	J
PCB-11	70.2	10.7			3.86	B	PCB-52/69	68.7	10.7			3.64	
PCB-12/13	5.71	21.4			5.01	J	PCB-53	10.5	5.35			1.12	
PCB-14	ND	10.7	3.47		3.98		PCB-54	ND	5.35	0.806		1.51	
PCB-15	39.9	10.7			2.53		PCB-55	2.03	5.35			1.19	J
PCB-16/32	58.6	10.7			2.87	B	PCB-56/60	48.5	10.7			2.19	
PCB-17	31.1	5.35			1.37	B	PCB-57	ND	5.35	1.01		0.857	
PCB-18	87.2	5.35			2.57	B	PCB-58	ND	5.35	1.02		1.81	
PCB-19	10.0	5.35			2.38		PCB-61/70	82.9	10.7			2.40	
PCB-20/21/33	67.6	16.1			10.3	B	PCB-62	ND	5.35	0.976		1.46	
PCB-22	37.2	5.35			3.17		PCB-63	2.51	5.35			0.696	J
PCB-23	ND	5.35	0.555		1.35		PCB-65	ND	5.35	0.945		0.953	
PCB-24/27	7.43	10.7			3.16	J	PCB-67	2.49	5.35			1.22	J
PCB-25	6.95	5.35			3.34		PCB-68	1.30	5.35			1.24	J
PCB-26	15.6	5.35			2.19		PCB-73	ND	5.35	0.940		1.56	
PCB-28	72.3	5.35			2.90		PCB-74	26.6	5.35			1.53	
PCB-29	ND	5.35	0.548		1.60		PCB-76/66	56.2	10.7			2.82	
PCB-30	ND	5.35	0.463		2.09		PCB-77	13.8	5.35			1.34	
PCB-31	68.7	5.35			4.29	B	PCB-78	ND	5.35	1.12		0.990	
PCB-34	ND	5.35	0.577		2.34		PCB-79	1.75	5.35			1.60	J
PCB-35	3.73	5.35			1.65	J	PCB-80	ND	5.35	0.879		1.98	
PCB-36	ND	5.35	0.648		2.69		PCB-81	0.666	5.35			2.34	J
PCB-37	39.7	5.35			1.92		PCB-82	ND	5.35		16.9	1.69	
PCB-38	ND	5.35	0.659		1.56		PCB-83	ND	5.35	2.86		1.32	
PCB-39	ND	5.35	0.628		2.60		PCB-84/92	56.7	10.7			3.38	
PCB-40	16.6	5.35			3.08		PCB-85/116	20.2	10.7			2.83	
PCB-41/64/71/72	63.9	21.4			5.57		PCB-86	ND	5.35	4.25		2.34	
PCB-42/59	24.7	10.7			2.84		PCB-87/117/125	47.0	16.1			3.79	
PCB-43/49	45.5	10.7			3.38		PCB-88/91	14.2	5.35			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: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>								
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-02		Date Received:	04-Sep-2014 10:14				
Project:	NPDES Sampling Support			Sample Size:	0.934 L		QC Batch:	B410025		Date Extracted:	09-Sep-2014 8:20				
Date Collected:	03-Sep-2014 12:00						Date Analyzed :	11-Sep-14 05:21		Column:	ZB-1		Analyst:	DMS	
									11-Sep-14 23:55		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	5.35	3.76		1.84		PCB-136	25.2	5.35			2.89	
PCB-90/101	142	10.7			1.92		PCB-137	ND	5.35		5.69	2.08	
PCB-93	ND	5.35	3.18		1.47		PCB-138/163/164	250	16.1			2.68	B
PCB-94	ND	5.35	3.24		1.91		PCB-139/149	157	10.7			7.87	
PCB-95/98/102	93.1	16.1			6.58		PCB-140	ND	5.35	4.56		3.52	
PCB-96	ND	5.35	2.17		2.16		PCB-141	51.5	5.35			1.15	
PCB-97	37.1	5.35			1.24		PCB-144	8.37	5.35			3.22	
PCB-99	47.7	5.35			1.94		PCB-145	ND	5.35	3.28		1.73	
PCB-100	ND	5.35	2.36		2.03		PCB-146/165	37.4	10.7			1.91	
PCB-103	ND	5.35	2.54		2.28		PCB-147	ND	5.35	4.32		3.62	
PCB-104	ND	5.35	1.88		0.931		PCB-148	ND	5.35	4.84		1.68	
PCB-105	57.4	26.8			2.21	D	PCB-150	ND	5.35	3.37		1.14	
PCB-106/118	130	10.7			2.44		PCB-151	46.3	5.35			3.59	
PCB-107/109	11.0	10.7			1.98		PCB-152	ND	5.35	3.26		1.82	
PCB-108/112	6.84	10.7			1.86	J	PCB-153	217	5.35			1.83	
PCB-110	148	5.35			1.94		PCB-154	4.09	5.35			2.78	J
PCB-111/115	ND	10.7		2.19	0.768		PCB-155	ND	5.35	3.16		1.45	
PCB-113	2.75	5.35			1.31	J	PCB-156	ND	5.35		18.9	1.74	
PCB-114	ND	26.8	5.93		1.81	D	PCB-157	5.20	5.35			1.17	J
PCB-119	2.84	5.35			0.949	J	PCB-158/160	27.2	10.7			1.99	
PCB-120	ND	5.35		1.18	1.01		PCB-159	ND	5.35	2.19		1.20	
PCB-121	ND	5.35	1.89		1.94		PCB-166	ND	5.35	2.29		0.920	
PCB-122	ND	26.8	6.50		1.84	D	PCB-167	11.2	5.35			1.65	
PCB-123	ND	5.35		1.91	1.35		PCB-168	ND	5.35	1.60		0.933	
PCB-124	7.24	5.35			1.79		PCB-169	ND	5.35	2.57		1.12	
PCB-126	ND	26.8		3.87	2.05	D	PCB-170	86.6	5.35			1.38	
PCB-127	ND	26.8	6.57		0.808	D	PCB-171	ND	5.35		22.4	1.61	
PCB-128/162	33.0	10.7			1.68		PCB-172	16.7	5.35			1.46	
PCB-129	9.43	5.35			1.11		PCB-173	ND	5.35	2.68		1.49	
PCB-130	15.9	5.35			2.21		PCB-174	91.0	5.35			1.42	
PCB-131	ND	5.35	2.39		1.46		PCB-175	ND	5.35		2.01	3.15	
PCB-132/161	63.2	10.7			2.34		PCB-176	8.22	5.35			2.17	
PCB-133/142	ND	10.7		5.75	2.19		PCB-177	58.3	5.35			1.34	
PCB-134/143	11.8	10.7			2.40		PCB-178	14.1	5.35			2.25	
PCB-135	26.8	5.35			2.90		PCB-179	27.2	5.35			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: CS-TS-01-20140903-W**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-02	Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	0.934 L		QC Batch:	B4I0025	Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 12:00						Date Analyzed :	11-Sep-14 05:21 Column: ZB-1 Analyst: DMS 11-Sep-14 23:55 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	193	5.35			0.610	B	Total octaCB	197	5.35				
PCB-181	ND	5.35	2.28		1.01		Total nonaCB	27.9	5.35				
PCB-182/187	84.4	10.7			6.20		DecaCB	ND	5.35		6.18		
PCB-183	36.3	5.35			3.29		Total PCB	4080	10.7				B
PCB-184	ND	5.35	1.22		1.25								
PCB-185	10.2	5.35			1.47								
PCB-186	ND	5.35	1.19		2.43								
PCB-188	ND	5.35	1.08		1.08								
PCB-189	ND	5.35		2.41	1.49								
PCB-190	15.5	5.35			1.70								
PCB-191	3.52	5.35			1.96	J							
PCB-192	ND	5.35	2.04		1.69								
PCB-193	10.9	5.35			1.46								
PCB-194	41.1	5.35			1.71								
PCB-195	18.6	5.35			1.47								
PCB-196/203	57.8	10.7			6.35								
PCB-197	ND	5.35	3.70		1.80								
PCB-198	ND	5.35	5.34		3.78								
PCB-199	51.1	5.35			4.05								
PCB-200	5.82	5.35			1.75								
PCB-201	8.51	5.35			1.02								
PCB-202	11.4	5.35			1.55								
PCB-204	ND	5.35	3.98		1.48								
PCB-205	2.74	5.35			1.53	J							
PCB-206	18.8	5.35			1.32								
PCB-207	2.87	5.35			1.51	J							
PCB-208	6.21	5.35			1.34								
PCB-209	ND	5.35		6.18	1.86								
Total monoCB	17.5	5.35											
Total diCB	260	10.7				B							
Total triCB	506	5.35				B							
Total tetraCB	589	5.35											
Total pentaCB	823	5.35		849									
Total hexaCB	1000	5.35		1030		B							
Total heptaCB	655	5.35		682		B							

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: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Leidos	Matrix:	Aqueous	Lab Sample:	1400647-02
Project:	NPDES Sampling Support	Sample Size:	0.934 L	Date Received:	04-Sep-2014 10:14
Date Collected:	03-Sep-2014 12:00			QC Batch:	B4I0025
				Date Analyzed :	11-Sep-14 05:21 Column: ZB-1 Analyst: DMS
					11-Sep-14 23:55 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	89.8	5 -145		13C-PCB-170	60.5	10 -145	
13C-PCB-3	87.5	5 -145		13C-PCB-180	60.0	10 -145	
13C-PCB-4	87.9	5 -145		13C-PCB-188	82.2	10 -145	
13C-PCB-11	94.0	5 -145		13C-PCB-189	59.7	10 -145	
13C-PCB-9	93.5	5 -145		13C-PCB-194	94.0	10 -145	
13C-PCB-19	72.6	5 -145		13C-PCB-202	38.7	10 -145	
13C-PCB-28	99.8	5 -145		13C-PCB-206	82.2	10 -145	
13C-PCB-32	70.6	5 -145		13C-PCB-208	72.3	10 -145	
13C-PCB-37	88.9	5 -145		13C-PCB-209	75.2	10 -145	
13C-PCB-47	103	5 -145		CRS 13C-PCB-79	99.4	10 -145	
13C-PCB-52	105	5 -145		13C-PCB-178	75.1	10 -145	
13C-PCB-54	116	5 -145					
13C-PCB-70	94.2	5 -145					
13C-PCB-77	86.5	10 -145					
13C-PCB-80	95.3	10 -145					
13C-PCB-81	88.1	10 -145					
13C-PCB-95	103	10 -145					
13C-PCB-97	95.3	10 -145					
13C-PCB-101	97.6	10 -145					
13C-PCB-104	118	10 -145					
13C-PCB-105	142	10 -145	D				
13C-PCB-114	144	10 -145	D				
13C-PCB-118	80.9	10 -145					
13C-PCB-123	80.4	10 -145					
13C-PCB-126	132	10 -145	D				
13C-PCB-127	138	10 -145	D				
13C-PCB-138	94.9	10 -145					
13C-PCB-141	97.9	10 -145					
13C-PCB-153	118	10 -145					
13C-PCB-155	61.7	10 -145					
13C-PCB-156	92.9	10 -145					
13C-PCB-157	90.5	10 -145					
13C-PCB-159	96.1	10 -145					
13C-PCB-167	94.6	10 -145					
13C-PCB-169	85.0	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: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-03		Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	1.01 L		QC Batch:	B4I0025		Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 14:15						Date Analyzed :	12-Sep-14 00:59 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	49.5		5.50	1.21	D	PCB-44	232	49.5			2.48	D
PCB-2	ND	49.5	6.92		1.75	D	PCB-45	37.5	49.5			1.96	J, D
PCB-3	6.75	49.5			1.49	J, D	PCB-46	19.1	49.5			2.49	J, D
PCB-4/10	ND	198	32.5		5.64	D	PCB-47	58.8	49.5			4.42	D
PCB-5/8	114	198			3.59	J, D	PCB-48/75	ND	99.0		40.0	2.09	D
PCB-6	ND	99.0	27.4		3.10	D	PCB-50	ND	49.5	9.19		1.40	D
PCB-7/9	ND	198	27.3		6.22	D	PCB-51	15.6	49.5			1.42	J, D
PCB-11	107	99.0			3.86	B, D	PCB-52/69	248	99.0			3.64	D
PCB-12/13	ND	198	29.4		5.01	D	PCB-53	27.9	49.5			1.12	J, D
PCB-14	ND	99.0	28.1		3.98	D	PCB-54	ND	49.5	7.41		1.51	D
PCB-15	89.2	99.0			2.53	J, D	PCB-55	ND	49.5	9.07		1.19	D
PCB-16/32	115	99.0			2.87	D, B	PCB-56/60	168	99.0			2.19	D
PCB-17	62.5	49.5			1.37	D, B	PCB-57	ND	49.5	9.21		0.857	D
PCB-18	168	49.5			2.57	B, D	PCB-58	ND	49.5	9.32		1.81	D
PCB-19	15.9	49.5			2.38	J, D	PCB-61/70	309	99.0			2.40	D
PCB-20/21/33	153	148			10.3	D, B	PCB-62	ND	49.5	8.83		1.46	D
PCB-22	93.4	49.5			3.17	D	PCB-63	ND	49.5	9.19		0.696	D
PCB-23	ND	49.5	4.55		1.35	D	PCB-65	ND	49.5	8.55		0.953	D
PCB-24/27	18.0	99.0			3.16	J, D	PCB-67	ND	49.5	9.56		1.22	D
PCB-25	17.5	49.5			3.34	J, D	PCB-68	ND	49.5	7.68		1.24	D
PCB-26	33.4	49.5			2.19	J, D	PCB-73	ND	49.5	8.60		1.56	D
PCB-28	179	49.5			2.90	D	PCB-74	97.5	49.5			1.53	D
PCB-29	ND	49.5	4.49		1.60	D	PCB-76/66	208	99.0			2.82	D
PCB-30	ND	49.5	5.65		2.09	D	PCB-77	61.3	49.5			1.34	D
PCB-31	160	49.5			4.29	D, B	PCB-78	ND	49.5	10.5		0.990	D
PCB-34	ND	49.5	4.73		2.34	D	PCB-79	ND	49.5	8.96		1.60	D
PCB-35	10.1	49.5			1.65	J, D	PCB-80	ND	49.5	7.88		1.98	D
PCB-36	ND	49.5	5.11		2.69	D	PCB-81	ND	49.5	9.43		2.34	D
PCB-37	119	49.5			1.92	D	PCB-82	98.0	49.5			1.69	D
PCB-38	ND	49.5	5.20		1.56	D	PCB-83	ND	49.5	29.8		1.32	D
PCB-39	ND	49.5	4.96		2.60	D	PCB-84/92	223	99.0			3.38	D
PCB-40	51.3	49.5			3.08	D	PCB-85/116	87.6	99.0			2.83	J, D
PCB-41/64/71/72	226	198			5.57	D	PCB-86	ND	49.5	44.3		2.34	D
PCB-42/59	81.6	99.0			2.84	J, D	PCB-87/117/125	214	148			3.79	D
PCB-43/49	147	99.0			3.38	D	PCB-88/91	ND	49.5		53.3	3.25	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

**Sample ID: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-03		Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	1.01 L		QC Batch:	B410025		Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 14:15						Date Analyzed :	12-Sep-14 00:59		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	49.5	37.7		1.84	D	PCB-136	108	49.5			2.89	D
PCB-90/101	557	99.0			1.92	D	PCB-137	35.3	49.5			2.08	J, D
PCB-93	ND	49.5	30.8		1.47	D	PCB-138/163/164	1220	148			2.68	D, B
PCB-94	ND	49.5	31.5		1.91	D	PCB-139/149	666	99.0			7.87	D
PCB-95/98/102	358	148			6.58	D	PCB-140	ND	49.5	36.5		3.52	D
PCB-96	ND	49.5	24.6		2.16	D	PCB-141	231	49.5			1.15	D
PCB-97	167	49.5			1.24	D	PCB-144	ND	49.5	35.0		3.22	D
PCB-99	211	49.5			1.94	D	PCB-145	ND	49.5	26.2		1.73	D
PCB-100	ND	49.5	26.8		2.03	D	PCB-146/165	190	99.0			1.91	D
PCB-103	ND	49.5	28.8		2.28	D	PCB-147	ND	49.5	34.6		3.62	D
PCB-104	ND	49.5	21.3		0.931	D	PCB-148	ND	49.5	38.7		1.68	D
PCB-105	249	49.5			2.21	D	PCB-150	ND	49.5	27.0		1.14	D
PCB-106/118	600	99.0			2.44	D	PCB-151	200	49.5			3.59	D
PCB-107/109	45.7	99.0			1.98	J, D	PCB-152	ND	49.5	26.1		1.82	D
PCB-108/112	34.0	99.0			1.86	J, D	PCB-153	1050	49.5			1.83	D
PCB-110	708	49.5			1.94	D	PCB-154	ND	49.5	32.5		2.78	D
PCB-111/115	ND	99.0	25.8		0.768	D	PCB-155	ND	49.5	25.3		1.45	D
PCB-113	ND	49.5	28.4		1.31	D	PCB-156	110	49.5			1.74	D
PCB-114	13.6	49.5			1.81	J, D	PCB-157	ND	49.5		27.1	1.17	D
PCB-119	17.7	49.5			0.949	J, D	PCB-158/160	125	99.0			1.99	D
PCB-120	ND	49.5	25.4		1.01	D	PCB-159	ND	49.5	19.9		1.20	D
PCB-121	ND	49.5	18.3		1.94	D	PCB-166	ND	49.5	20.8		0.920	D
PCB-122	ND	49.5	15.3		1.84	D	PCB-167	51.9	49.5			1.65	D
PCB-123	ND	49.5	34.3		1.35	D	PCB-168	ND	49.5	17.7		0.933	D
PCB-124	ND	49.5	31.6		1.79	D	PCB-169	ND	49.5	28.3		1.12	D
PCB-126	18.5	49.5			2.05	J, D	PCB-170	384	49.5			1.38	D
PCB-127	ND	49.5	16.2		0.808	D	PCB-171	135	49.5			1.61	D
PCB-128/162	153	99.0			1.68	D	PCB-172	88.5	49.5			1.46	D
PCB-129	50.7	49.5			1.11	D	PCB-173	ND	49.5	42.9		1.49	D
PCB-130	81.6	49.5			2.21	D	PCB-174	406	49.5			1.42	D
PCB-131	ND	49.5	26.5		1.46	D	PCB-175	ND	49.5		19.3	3.15	D
PCB-132/161	300	99.0			2.34	D	PCB-176	ND	49.5		42.3	2.17	D
PCB-133/142	40.1	99.0			2.19	J, D	PCB-177	275	49.5			1.34	D
PCB-134/143	60.8	99.0			2.40	J, D	PCB-178	88.2	49.5			2.25	D
PCB-135	99.6	49.5			2.90	D	PCB-179	151	49.5			1.57	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

**Sample ID: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1400647-03		Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	1.01 L		QC Batch:	B4I0025		Date Extracted:	09-Sep-2014 8:20		
Date Collected:	03-Sep-2014 14:15						Date Analyzed :	12-Sep-14 00:59		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	859	49.5			0.610	B, D	Total octaCB	744	49.5				D
PCB-181	ND	49.5	36.5		1.01	D	Total nonaCB	149	49.5		168		D
PCB-182/187	461	99.0			6.20	D	DecaCB	60.1	49.5				D
PCB-183	213	49.5			3.29	D	Total PCB	15900	99.0				D, B
PCB-184	ND	49.5	22.1		1.25	D							
PCB-185	38.4	49.5			1.47	J, D							
PCB-186	ND	49.5	21.4		2.43	D							
PCB-188	ND	49.5	19.5		1.08	D							
PCB-189	ND	49.5	12.3		1.49	D							
PCB-190	ND	49.5		65.5	1.70	D							
PCB-191	ND	49.5	29.7		1.96	D							
PCB-192	ND	49.5	32.6		1.69	D							
PCB-193	52.0	49.5			1.46	D							
PCB-194	196	49.5			1.71	D							
PCB-195	74.5	49.5			1.47	D							
PCB-196/203	233	99.0			6.35	D							
PCB-197	ND	49.5	76.0		1.80	D							
PCB-198	ND	49.5	110		3.78	D							
PCB-199	240	49.5			4.05	D							
PCB-200	ND	49.5	80.1		1.75	D							
PCB-201	ND	49.5	73.9		1.02	D							
PCB-202	ND	49.5	78.3		1.55	D							
PCB-204	ND	49.5	82.0		1.48	D							
PCB-205	ND	49.5	16.9		1.53	D							
PCB-206	115	49.5			1.32	D							
PCB-207	ND	49.5		19.4	1.51	D							
PCB-208	33.5	49.5			1.34	J, D							
PCB-209	60.1	49.5			1.86	D							
Total monoCB	6.75	49.5		12.3		J, D							
Total diCB	311	99.0				D, B							
Total triCB	1150	49.5				D, B							
Total tetraCB	1990	49.5		2030		D							
Total pentaCB	3600	49.5		3660		D							
Total hexaCB	4770	49.5		4790		D, B							
Total heptaCB	3150	49.5		3280		D, B							

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: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Leidos	Matrix:	Aqueous	Lab Sample:	1400647-03
Project:	NPDES Sampling Support	Sample Size:	1.01 L	Date Received:	04-Sep-2014 10:14
Date Collected:	03-Sep-2014 14:15			QC Batch:	B4I0025
				Date Analyzed:	12-Sep-14 00:59
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	102	5 -145	D	13C-PCB-170	64.7	10 -145	D
13C-PCB-3	99.7	5 -145	D	13C-PCB-180	63.7	10 -145	D
13C-PCB-4	104	5 -145	D	13C-PCB-188	73.5	10 -145	D
13C-PCB-11	101	5 -145	D	13C-PCB-189	51.6	10 -145	D
13C-PCB-9	105	5 -145	D	13C-PCB-194	95.4	10 -145	D
13C-PCB-19	79.6	5 -145	D	13C-PCB-202	39.5	10 -145	D
13C-PCB-28	107	5 -145	D	13C-PCB-206	76.5	10 -145	D
13C-PCB-32	74.2	5 -145	D	13C-PCB-208	74.6	10 -145	D
13C-PCB-37	96.1	5 -145	D	13C-PCB-209	64.4	10 -145	D
13C-PCB-47	106	5 -145	D	CRS 13C-PCB-79	107	10 -145	D
13C-PCB-52	113	5 -145	D	13C-PCB-178	75.2	10 -145	D
13C-PCB-54	121	5 -145	D				
13C-PCB-70	101	5 -145	D				
13C-PCB-77	80.6	10 -145	D				
13C-PCB-80	102	10 -145	D				
13C-PCB-81	89.7	10 -145	D				
13C-PCB-95	112	10 -145	D				
13C-PCB-97	96.6	10 -145	D				
13C-PCB-101	102	10 -145	D				
13C-PCB-104	116	10 -145	D				
13C-PCB-105	142	10 -145	D				
13C-PCB-114	154	10 -145	D, H				
13C-PCB-118	75.4	10 -145	D				
13C-PCB-123	80.3	10 -145	D				
13C-PCB-126	135	10 -145	D				
13C-PCB-127	146	10 -145	D, H				
13C-PCB-138	99.7	10 -145	D				
13C-PCB-141	109	10 -145	D				
13C-PCB-153	103	10 -145	D				
13C-PCB-155	66.0	10 -145	D				
13C-PCB-156	88.8	10 -145	D				
13C-PCB-157	86.5	10 -145	D				
13C-PCB-159	98.6	10 -145	D				
13C-PCB-167	94.1	10 -145	D				
13C-PCB-169	76.8	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



**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B4I0032	Lab Sample: B4I0032-BLK1
Sample Size: 3.00 g	Date Extracted: 10-Sep-2014 9:16	Date Analyzed: 20-Sep-14 04:00 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	ND	8.33	3.03		0.320		PCB-43/49	ND	16.7	1.90		0.879	
PCB-2	ND	8.33	3.04		0.240		PCB-44	ND	8.33	2.00		0.745	
PCB-3	ND	8.33	2.52		0.323		PCB-45	ND	8.33	2.19		0.402	
PCB-4/10	ND	33.3	14.6		1.14		PCB-46	ND	8.33	2.24		0.537	
PCB-5/8	ND	33.3	13.0		1.76		PCB-47	ND	8.33	1.62		2.19	
PCB-6	ND	16.7	11.5		1.00		PCB-48/75	ND	16.7	1.40		0.983	
PCB-7/9	ND	33.3	12.4		1.34		PCB-50	ND	8.33	1.87		0.603	
PCB-11	ND	16.7	13.0		3.48		PCB-51	ND	8.33	1.91		0.789	
PCB-12/13	ND	33.3	11.9		1.37		PCB-52/69	ND	16.7	1.48		0.722	
PCB-14	ND	16.7	12.8		0.337		PCB-53	ND	8.33	1.78		0.331	
PCB-15	ND	16.7	11.0		0.634		PCB-54	ND	8.33	1.50		0.275	
PCB-16/32	ND	33.3	1.11		0.430		PCB-55	ND	8.33	1.29		0.416	
PCB-17	ND	8.33	1.13		0.658		PCB-56/60	ND	16.7	1.33		0.825	
PCB-18	ND	8.33	1.34		0.696		PCB-57	ND	8.33	1.47		0.354	
PCB-19	ND	8.33	1.54		0.612		PCB-58	ND	8.33	1.55		0.589	
PCB-20/21/33	ND	25.0	1.33		2.47		PCB-61/70	ND	16.7	1.51		1.20	
PCB-22	ND	8.33	1.19		0.964		PCB-62	ND	8.33	1.41		0.597	
PCB-23	ND	8.33	1.13		0.543		PCB-63	ND	8.33	1.51		0.524	
PCB-24/27	ND	16.7	0.879		0.742		PCB-65	ND	8.33	1.40		0.842	
PCB-25	ND	8.33	1.14		0.768		PCB-67	ND	8.33	1.30		0.486	
PCB-26	ND	8.33	1.19		0.766		PCB-68	ND	8.33	1.28		0.658	
PCB-28	ND	8.33	0.841		1.12		PCB-73	ND	8.33	1.40		0.454	
PCB-29	ND	8.33	1.33		0.949		PCB-74	ND	8.33	1.16		0.781	
PCB-30	ND	8.33	0.942		0.355		PCB-76/66	ND	16.7	1.38		1.31	
PCB-31	ND	8.33	1.12		0.809		PCB-77	ND	8.33	1.29		0.748	
PCB-34	ND	8.33	1.27		1.57		PCB-78	ND	8.33	1.17		0.385	
PCB-35	ND	8.33	1.23		0.565		PCB-79	ND	8.33	1.24		0.633	
PCB-36	ND	8.33	1.33		0.406		PCB-80	ND	8.33	1.13		0.336	
PCB-37	ND	8.33	1.23		0.389		PCB-81	ND	8.33	1.12		0.674	
PCB-38	ND	8.33	1.26		0.528		PCB-82	ND	8.33	3.12		0.981	
PCB-39	ND	8.33	1.36		0.461		PCB-83	ND	8.33	2.10		0.440	
PCB-40	ND	8.33	2.45		0.927		PCB-84/92	ND	16.7	2.81		1.01	
PCB-41/64/71/72	ND	33.3	1.42		1.70		PCB-85/116	ND	16.7	2.45		1.64	
PCB-42/59	ND	16.7	1.51		0.899		PCB-86	ND	8.33	3.78		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: B4I0032	Lab Sample: B4I0032-BLK1
Sample Size: 3.00 g	Date Extracted: 10-Sep-2014 9:16	Date Analyzed: 20-Sep-14 04:00 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	25.0	2.06		0.880		PCB-133/142	ND	16.7	1.84		1.04	
PCB-88/91	ND	16.7	2.99		1.25		PCB-134/143	ND	16.7	1.64		1.05	
PCB-89	ND	8.33	2.60		1.22		PCB-135	ND	8.33	2.35		1.47	
PCB-90/101	ND	16.7	2.67		1.19		PCB-136	ND	8.33	1.58		0.776	
PCB-93	ND	8.33	3.96		1.42		PCB-137	ND	8.33	1.51		0.541	
PCB-94	ND	8.33	3.16		0.874		PCB-138/163/164	ND	25.0	1.19		0.809	
PCB-95/98/102	ND	25.0	2.72		1.38		PCB-139/149	ND	8.33	2.45		1.49	
PCB-96	ND	8.33	2.19		0.588		PCB-140	ND	8.33	2.58		1.20	
PCB-97	ND	8.33	2.70		0.675		PCB-141	ND	8.33	1.48		0.678	
PCB-99	ND	8.33	2.20		0.474		PCB-144	ND	8.33	2.45		1.38	
PCB-100	ND	8.33	2.65		0.511		PCB-145	ND	8.33	1.55		1.05	
PCB-103	ND	8.33	2.60		0.428		PCB-146/165	ND	16.7	1.21		0.792	
PCB-104	ND	8.33	2.10		0.876		PCB-147	ND	8.33	2.27		1.65	
PCB-105	ND	8.33	1.83		0.462		PCB-148	ND	8.33	2.51		1.45	
PCB-106/118	ND	16.7	2.05		0.728		PCB-150	ND	8.33	1.87		0.801	
PCB-107/109	ND	16.7	1.79		0.631		PCB-151	ND	8.33	2.50		1.16	
PCB-108/112	ND	16.7	2.49		0.844		PCB-152	ND	8.33	1.67		0.744	
PCB-110	ND	8.33	2.05		0.555		PCB-153	ND	8.33	1.20		0.484	
PCB-111/115	ND	16.7	1.95		1.24		PCB-154	ND	8.33	2.17		0.837	
PCB-113	ND	8.33	2.08		0.495		PCB-155	ND	8.33	1.67		0.767	
PCB-114	ND	8.33	1.85		0.418		PCB-156	ND	8.33	1.16		0.534	
PCB-119	ND	8.33	2.08		0.383		PCB-157	ND	8.33	1.09		0.485	
PCB-120	ND	8.33	1.90		0.622		PCB-158/160	ND	16.7	1.14		0.915	
PCB-121	ND	8.33	2.07		0.978		PCB-159	ND	8.33	1.24		0.578	
PCB-122	ND	8.33	2.14		0.619		PCB-166	ND	8.33	1.16		0.425	
PCB-123	ND	8.33	2.03		0.494		PCB-167	ND	8.33	1.06		0.653	
PCB-124	ND	8.33	1.61		0.813		PCB-168	ND	8.33	1.04		0.502	
PCB-126	ND	8.33	2.14		0.543		PCB-169	ND	8.33	1.14		0.767	
PCB-127	ND	8.33	1.65		0.326		PCB-170	ND	8.33	0.844		0.758	
PCB-128/162	ND	16.7	1.32		1.08		PCB-171	ND	8.33	0.798		0.372	
PCB-129	ND	8.33	1.80		0.567		PCB-172	ND	8.33	0.773		0.857	
PCB-130	ND	8.33	1.67		0.798		PCB-173	ND	8.33	1.14		0.507	
PCB-131	ND	8.33	1.66		0.731		PCB-174	ND	8.33	0.917		0.797	
PCB-132/161	ND	16.7	1.36		1.05		PCB-175	ND	8.33	0.994		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: B4I0032	Lab Sample: B4I0032-BLK1
Sample Size: 3.00 g	Date Extracted: 10-Sep-2014 9:16	Date Analyzed: 20-Sep-14 04:00 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	8.33	0.681		0.729		Total triCB	ND	8.33	1.54		0.00	
PCB-177	ND	8.33	1.01		0.404		Total tetraCB	ND	8.33	2.45		0.00	
PCB-178	ND	8.33	0.973		0.610		Total pentaCB	ND	8.33	3.96		0.00	
PCB-179	ND	8.33	0.772		0.418		Total hexaCB	ND	8.33	2.58		0.00	
PCB-180	ND	8.33	0.940		0.420		Total heptaCB	ND	8.33	1.14		0.00	
PCB-181	ND	8.33	0.915		1.26		Total octaCB	ND	8.33	1.76		0.00	
PCB-182/187	ND	16.7	0.804		1.33		Total nonaCB	ND	8.33	2.22		0.00	
PCB-183	ND	8.33	0.833		0.638		DecaCB	ND	8.33	1.90		0.00	
PCB-184	ND	8.33	0.617		0.597		Total PCB	ND	16.7	14.6		0.00	
PCB-185	ND	8.33	0.701		0.557								
PCB-186	ND	8.33	0.692		0.421								
PCB-188	ND	8.33	0.637		0.759								
PCB-189	ND	8.33	0.698		0.483								
PCB-190	ND	8.33	0.610		0.686								
PCB-191	ND	8.33	0.746		0.447								
PCB-192	ND	8.33	0.726		0.528								
PCB-193	ND	8.33	0.736		0.836								
PCB-194	ND	8.33	1.34		0.645								
PCB-195	ND	8.33	1.33		0.722								
PCB-196/203	ND	16.7	1.66		0.983								
PCB-197	ND	8.33	1.24		0.794								
PCB-198	ND	8.33	1.76		0.792								
PCB-199	ND	8.33	1.67		0.615								
PCB-200	ND	8.33	1.25		0.795								
PCB-201	ND	8.33	1.16		0.317								
PCB-202	ND	8.33	1.23		0.759								
PCB-204	ND	8.33	1.17		0.543								
PCB-205	ND	8.33	1.06		0.471								
PCB-206	ND	8.33	2.22		0.852								
PCB-207	ND	8.33	0.987		0.402								
PCB-208	ND	8.33	1.15		0.441								
PCB-209	ND	8.33	1.90		1.10								
Total monoCB	ND	8.33	3.04		0.00								
Total diCB	ND	16.7	14.6		0.00								

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: B4I0032	Lab Sample: B4I0032-BLK1
Sample Size: 3.00 g	Date Extracted: 10-Sep-2014 9:16	Date Analyzed: 20-Sep-14 04:00 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	85.8	5 - 145		13C-PCB-157	91.3	10 - 145	
13C-PCB-3	88.3	5 - 145		13C-PCB-159	88.6	10 - 145	
13C-PCB-4	68.3	5 - 145		13C-PCB-167	89.2	10 - 145	
13C-PCB-11	74.7	5 - 145		13C-PCB-169	91.8	10 - 145	
13C-PCB-9	69.9	5 - 145		13C-PCB-170	108	10 - 145	
13C-PCB-19	88.7	5 - 145		13C-PCB-180	100	10 - 145	
13C-PCB-28	70.0	5 - 145		13C-PCB-188	91.1	10 - 145	
13C-PCB-32	94.1	5 - 145		13C-PCB-189	99.9	10 - 145	
13C-PCB-37	82.9	5 - 145		13C-PCB-194	95.9	10 - 145	
13C-PCB-47	82.4	5 - 145		13C-PCB-202	111	10 - 145	
13C-PCB-52	80.9	5 - 145		13C-PCB-206	92.9	10 - 145	
13C-PCB-54	71.6	5 - 145		13C-PCB-208	91.8	10 - 145	
13C-PCB-70	85.1	5 - 145		13C-PCB-209	100	10 - 145	
13C-PCB-77	90.5	10 - 145		CRS 13C-PCB-79	89.2	10 - 145	
13C-PCB-80	87.9	10 - 145		13C-PCB-178	97.4	10 - 145	
13C-PCB-81	90.4	10 - 145					
13C-PCB-95	82.3	10 - 145					
13C-PCB-97	89.7	10 - 145					
13C-PCB-101	87.5	10 - 145					
13C-PCB-104	78.5	10 - 145					
13C-PCB-105	74.2	10 - 145					
13C-PCB-114	74.7	10 - 145					
13C-PCB-118	91.3	10 - 145					
13C-PCB-123	94.4	10 - 145					
13C-PCB-126	74.1	10 - 145					
13C-PCB-127	74.0	10 - 145					
13C-PCB-138	89.2	10 - 145					
13C-PCB-141	86.2	10 - 145					
13C-PCB-153	85.8	10 - 145					
13C-PCB-155	97.4	10 - 145					
13C-PCB-156	89.4	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: 3.00 gQC Batch: B4I0032  
Date Extracted: 10-Sep-2014 9:16Lab Sample: B4I0032-BS1  
Date Analyzed: 20-Sep-14 00:47 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1270	1670	76.1	60 - 135	IS 13C-PCB-1	74.1	15 - 145
PCB-3	1290	1670	77.4	60 - 135	IS 13C-PCB-3	81.4	15 - 145
PCB-4/10	6770	6670	102	60 - 135	IS 13C-PCB-4	59.7	15 - 145
PCB-15	3380	3330	101	60 - 135	IS 13C-PCB-11	73.4	15 - 145
PCB-19	1540	1670	92.5	60 - 135	IS 13C-PCB-9	63.9	15 - 145
PCB-37	1760	1670	106	60 - 135	IS 13C-PCB-19	84.5	15 - 145
PCB-54	1590	1670	95.6	60 - 135	IS 13C-PCB-28	77.1	15 - 145
PCB-77	1600	1670	95.8	60 - 135	IS 13C-PCB-32	93.2	15 - 145
PCB-81	1530	1670	91.7	60 - 135	IS 13C-PCB-37	86.6	15 - 145
PCB-104	1710	1670	103	60 - 135	IS 13C-PCB-47	78.2	15 - 145
PCB-105	1630	1670	97.9	60 - 135	IS 13C-PCB-52	76.6	15 - 145
PCB-106/118	3370	3330	101	60 - 135	IS 13C-PCB-54	69.2	15 - 145
PCB-114	1640	1670	98.1	60 - 135	IS 13C-PCB-70	86.9	15 - 145
PCB-123	1630	1670	98.0	60 - 135	IS 13C-PCB-77	93.6	40 - 145
PCB-126	1690	1670	102	60 - 135	IS 13C-PCB-80	87.6	40 - 145
PCB-155	1610	1670	96.4	60 - 135	IS 13C-PCB-81	92.9	40 - 145
PCB-156	1560	1670	93.7	60 - 135	IS 13C-PCB-95	84.2	40 - 145
PCB-157	1480	1670	88.9	60 - 135	IS 13C-PCB-97	90.4	40 - 145
PCB-167	1540	1670	92.3	60 - 135	IS 13C-PCB-101	86.8	40 - 145
PCB-169	1490	1670	89.3	60 - 135	IS 13C-PCB-104	76.1	40 - 145
PCB-188	1610	1670	96.4	60 - 135	IS 13C-PCB-105	74.0	40 - 145
PCB-189	1570	1670	94.1	60 - 135	IS 13C-PCB-114	73.8	40 - 145
PCB-202	1570	1670	94.2	60 - 135	IS 13C-PCB-118	91.3	40 - 145
PCB-205	1570	1670	94.2	60 - 135	IS 13C-PCB-123	94.3	40 - 145
PCB-206	1660	1670	99.9	60 - 135	IS 13C-PCB-126	75.5	40 - 145
PCB-208	1650	1670	99.1	60 - 135	IS 13C-PCB-127	73.0	40 - 145
PCB-209	1630	1670	97.5	60 - 135	IS 13C-PCB-128	89.9	40 - 145
					IS 13C-PCB-141	86.3	40 - 145
					IS 13C-PCB-153	86.9	40 - 145
					IS 13C-PCB-155	95.0	40 - 145
					IS 13C-PCB-156	90.7	40 - 145
					IS 13C-PCB-157	93.3	40 - 145
					IS 13C-PCB-159	89.4	40 - 145
					IS 13C-PCB-167	90.5	40 - 145
					IS 13C-PCB-169	93.6	40 - 145
					IS 13C-PCB-170	107	40 - 145
					IS 13C-PCB-180	102	40 - 145
					IS 13C-PCB-188	92.2	40 - 145
					IS 13C-PCB-189	105	40 - 145
					IS 13C-PCB-194	94.3	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 3.00 g

QC Batch: B4I0032  
Date Extracted: 10-Sep-2014 9:16

Lab Sample: B4I0032-BS1  
Date Analyzed: 20-Sep-14 00:47 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	111	40 - 145
					IS 13C-PCB-206	95.9	40 - 145
					IS 13C-PCB-208	91.1	40 - 145
					IS 13C-PCB-209	106	40 - 145
					CRS 13C-PCB-79	90.2	40 - 145
					CRS 13C-PCB-178	99.7	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data							
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400647-04		Date Received:		04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	7.38 g		QC Batch:	B410032		Date Extracted:		10-Sep-2014 9:16		
Date Collected:	03-Sep-2014 13:00			% Solids:	40.7		Date Analyzed :	20-Sep-14 06:09		Column:	ZB-1	Analyst:	DMS	
									22-Sep-14 20:47		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	184	167			0.320	D	PCB-44	7720	167			0.745	D
PCB-2	69.0	167			0.240	J, D	PCB-45	1370	167			0.402	D
PCB-3	155	167			0.323	J, D	PCB-46	583	167			0.537	D
PCB-4/10	1130	666			1.14	D	PCB-47	1970	167			2.19	D
PCB-5/8	4760	666			1.76	D	PCB-48/75	1640	333			0.983	D
PCB-6	865	333			1.00	D	PCB-50	ND	167	88.2		0.603	D
PCB-7/9	509	666			1.34	J, D	PCB-51	383	167			0.789	D
PCB-11	3430	333			3.48	D	PCB-52/69	7670	333			0.722	D
PCB-12/13	ND	666	316		1.37	D	PCB-53	1070	167			0.331	D
PCB-14	ND	333	283		0.337	D	PCB-54	ND	167	70.5		0.275	D
PCB-15	2840	333			0.634	D	PCB-55	212	167			0.416	D
PCB-16/32	4040	666			0.430	D	PCB-56/60	4180	333			0.825	D
PCB-17	2070	167			0.658	D	PCB-57	58.2	167			0.354	J, D
PCB-18	6100	167			0.696	D	PCB-58	ND	167	91.6		0.589	D
PCB-19	562	167			0.612	D	PCB-61/70	9140	333			1.20	D
PCB-20/21/33	7590	500			2.47	D	PCB-62	ND	167	83.6		0.597	D
PCB-22	3830	167			0.964	D	PCB-63	ND	167		245	0.524	D
PCB-23	ND	167	52.2		0.543	D	PCB-65	ND	167	83.3		0.842	D
PCB-24/27	415	333			0.742	D	PCB-67	ND	167		242	0.486	D
PCB-25	713	167			0.768	D	PCB-68	53.5	167			0.658	J, D
PCB-26	1640	167			0.766	D	PCB-73	ND	167	84.6		0.454	D
PCB-28	6030	167			1.12	D	PCB-74	2600	167			0.781	D
PCB-29	110	167			0.949	J, D	PCB-76/66	5590	333			1.31	D
PCB-30	ND	167	33.1		0.355	D	PCB-77	1040	167			0.748	D
PCB-31	7830	167			0.809	D	PCB-78	ND	167	71.6		0.385	D
PCB-34	ND	167	58.7		1.57	D	PCB-79	153	167			0.633	J, D
PCB-35	246	167			0.565	D	PCB-80	ND	167	72.4		0.336	D
PCB-36	ND	167	66.8		0.406	D	PCB-81	64.5	167			0.674	J, D
PCB-37	3320	167			0.389	D	PCB-82	1760	167			0.981	D
PCB-38	49.4	167			0.528	J, D	PCB-83	ND	167	96.1		0.440	D
PCB-39	ND	167	68.4		0.461	D	PCB-84/92	6560	333			1.01	D
PCB-40	1740	167			0.927	D	PCB-85/116	2270	333			1.64	D
PCB-41/64/71/72	7390	666			1.70	D	PCB-86	ND	167	242		1.79	D
PCB-42/59	2660	333			0.899	D	PCB-87/117/125	5810	500			0.880	D
PCB-43/49	5360	333			0.879	D	PCB-88/91	1600	333			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: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400647-04		Date Received:		04-Sep-2014 10:14	
Project:	NPDES Sampling Support			Sample Size:	7.38 g		QC Batch:	B410032		Date Extracted:		10-Sep-2014 9:16	
Date Collected:	03-Sep-2014 13:00			% Solids:	40.7		Date Analyzed :		20-Sep-14 06:09		Column:	ZB-1 Analyst: DMS	
									22-Sep-14 20:47		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	132	167			1.22	J, D	PCB-136	3580	167			0.776	D
PCB-90/101	19700	333			1.19	D	PCB-137	ND	167		989	0.541	D
PCB-93	ND	167	148		1.42	D	PCB-138/163/164	29700	500			0.809	D
PCB-94	ND	167	118		0.874	D	PCB-139/149	25700	167			1.49	D
PCB-95/98/102	13200	500			1.38	D	PCB-140	ND	167		117	1.20	D
PCB-96	114	167			0.588	J, D	PCB-141	6960	167			0.678	D
PCB-97	4490	167			0.675	D	PCB-144	1420	167			1.38	D
PCB-99	4890	167			0.474	D	PCB-145	ND	167	70.9		1.05	D
PCB-100	ND	167	102		0.511	D	PCB-146/165	4290	333			0.792	D
PCB-103	184	167			0.428	D	PCB-147	ND	167		174	1.65	D
PCB-104	ND	167	80.9		0.876	D	PCB-148	ND	167	114		1.45	D
PCB-105	5360	167			0.462	D	PCB-150	ND	167	85.3		0.801	D
PCB-106/118	14600	333			0.728	D	PCB-151	8020	167			1.16	D
PCB-107/109	963	333			0.631	D	PCB-152	ND	167	76.4		0.744	D
PCB-108/112	623	333			0.844	D	PCB-153	29100	167			0.484	D
PCB-110	18200	167			0.555	D	PCB-154	387	167			0.837	D
PCB-111/115	252	333			1.24	J, D	PCB-155	ND	167	76.5		0.767	D
PCB-113	108	167			0.495	J, D	PCB-156	3130	167			0.534	D
PCB-114	341	167			0.418	D	PCB-157	583	167			0.485	D
PCB-119	304	167			0.383	D	PCB-158/160	3220	333			0.915	D
PCB-120	98.8	167			0.622	J, D	PCB-159	ND	167	59.6		0.578	D
PCB-121	ND	167	77.0		0.978	D	PCB-166	ND	167	55.9		0.425	D
PCB-122	173	167			0.619	D	PCB-167	1250	333			0.653	D
PCB-123	201	167			0.494	D	PCB-168	ND	167	49.3		0.502	D
PCB-124	677	167			0.813	D	PCB-169	ND	167	78.8		0.767	D
PCB-126	210	167			0.543	D	PCB-170	10500	167			0.758	D
PCB-127	ND	167	32.4		0.326	D	PCB-171	3140	167			0.372	D
PCB-128/162	3760	333			1.08	D	PCB-172	1800	167			0.857	D
PCB-129	1240	167			0.567	D	PCB-173	325	167			0.507	D
PCB-130	1560	167			0.798	D	PCB-174	12800	167			0.797	D
PCB-131	ND	167	78.3		0.731	D	PCB-175	426	167			0.679	D
PCB-132/161	8200	333			1.05	D	PCB-176	1490	167			0.729	D
PCB-133/142	899	333			1.04	D	PCB-177	7780	167			0.404	D
PCB-134/143	1610	333			1.05	D	PCB-178	2280	167			0.610	D
PCB-135	3830	167			1.47	D	PCB-179	5220	167			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: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400647-04	Date Received:	04-Sep-2014 10:14		
Project:	NPDES Sampling Support			Sample Size:	7.38 g		QC Batch:	B4I0032	Date Extracted:	10-Sep-2014 9:16		
Date Collected:	03-Sep-2014 13:00			% Solids:	40.7		Date Analyzed :	20-Sep-14 06:09 Column: ZB-1 Analyst: DMS 22-Sep-14 20:47 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	29800	167			0.420	D	Total octaCB	20600	167				
PCB-181	ND	167	87.4		1.26	D	Total nonaCB	6270	167				
PCB-182/187	12400	333			1.33	D	DecaCB	2700	167				
PCB-183	6250	167			0.638	D	Total PCB	491000	333				
PCB-184	ND	167	45.2		0.597	D							
PCB-185	1200	167			0.557	D							
PCB-186	ND	167	50.7		0.421	D							
PCB-188	ND	167	46.6		0.759	D							
PCB-189	ND	333	416		0.483	D							
PCB-190	1740	167			0.686	D							
PCB-191	517	167			0.447	D							
PCB-192	ND	167	69.3		0.528	D							
PCB-193	1290	167			0.836	D							
PCB-194	4730	333			0.645	D							
PCB-195	2070	333			0.722	D							
PCB-196/203	5530	333			0.983	D							
PCB-197	266	167			0.794	D							
PCB-198	429	167			0.792	D							
PCB-199	4850	167			0.615	D							
PCB-200	671	167			0.795	D							
PCB-201	786	167			0.317	D							
PCB-202	1320	167			0.759	D							
PCB-204	ND	167	97.9		0.543	D							
PCB-205	ND	333	526		0.471	D							
PCB-206	4270	167			0.852	D							
PCB-207	503	167			0.402	D							
PCB-208	1500	167			0.441	D							
PCB-209	2700	167			1.10	D							
Total monoCB	408	167											
Total diCB	13500	333											
Total triCB	44600	167											
Total tetraCB	62600	167		63100									
Total pentaCB	103000	167											
Total hexaCB	138000	167		140000									
Total heptaCB	99000	167											

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: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Sediment	Lab Sample:	1400647-04
Project:	NPDES Sampling Support	Sample Size:	7.38 g	Date Received:	04-Sep-2014 10:14
Date Collected:	03-Sep-2014 13:00	% Solids:	40.7	QC Batch:	B4I0032
				Date Analyzed:	20-Sep-14 06:09 Column: ZB-1 Analyst: DMS
					22-Sep-14 20:47 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	119	5 -145	D	13C-PCB-170	91.5	10 -145	D
13C-PCB-3	116	5 -145	D	13C-PCB-180	94.9	10 -145	D
13C-PCB-4	88.2	5 -145	D	13C-PCB-188	115	10 -145	D
13C-PCB-11	89.5	5 -145	D	13C-PCB-189	62.4	10 -145	D
13C-PCB-9	88.9	5 -145	D	13C-PCB-194	89.8	10 -145	D
13C-PCB-19	120	5 -145	D	13C-PCB-202	112	10 -145	D
13C-PCB-28	85.2	5 -145	D	13C-PCB-206	72.8	10 -145	D
13C-PCB-32	115	5 -145	D	13C-PCB-208	83.1	10 -145	D
13C-PCB-37	96.8	5 -145	D	13C-PCB-209	103	10 -145	D
13C-PCB-47	87.4	5 -145	D	CRS 13C-PCB-79	89.0	10 -145	D
13C-PCB-52	88.1	5 -145	D	13C-PCB-178	111	10 -145	D
13C-PCB-54	89.8	5 -145	D				
13C-PCB-70	92.7	5 -145	D				
13C-PCB-77	87.5	10 -145	D				
13C-PCB-80	89.7	10 -145	D				
13C-PCB-81	93.2	10 -145	D				
13C-PCB-95	93.3	10 -145	D				
13C-PCB-97	96.5	10 -145	D				
13C-PCB-101	97.2	10 -145	D				
13C-PCB-104	89.9	10 -145	D				
13C-PCB-105	103	10 -145	D				
13C-PCB-114	108	10 -145	D				
13C-PCB-118	89.4	10 -145	D				
13C-PCB-123	92.9	10 -145	D				
13C-PCB-126	94.6	10 -145	D				
13C-PCB-127	103	10 -145	D				
13C-PCB-138	110	10 -145	D				
13C-PCB-141	118	10 -145	D				
13C-PCB-153	116	10 -145	D				
13C-PCB-155	107	10 -145	D				
13C-PCB-156	89.1	10 -145	D				
13C-PCB-157	93.3	10 -145	D				
13C-PCB-159	106	10 -145	D				
13C-PCB-167	89.9	10 -145	D				
13C-PCB-169	73.1	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>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The amount detected is above the High Calibration Limit.</b>
<b>H</b>	<b>Recovery was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Low Calibration Limit.</b>
<b>P</b>	<b>The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>DL</b>	<b>Sample-specific estimated detection limit</b>
<b>MDL</b>	<b>Method Detection Limit as determined by 40 CFR 136, Appendix B.</b>
<b>EMPC</b>	<b>Estimated Maximum Possible Concentration</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration (CA Region 2)</b>
<b>NA</b>	<b>Not applicable</b>
<b>RL</b>	<b>Reporting Limit – concentrations that correspond to low calibration point</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>

**Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.**

## CERTIFICATIONS

<b>Accrediting Authority</b>	<b>Certificate Number</b>
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

Laboratory Project ID: 1400647

Yes  No

Storage ID: WR-2

Temp: 4.9 °C

TAT: (Check One):

Standard:  21 Days

Rush (surcharge may apply):

14 days  7 days Specify: \_\_\_\_\_

Project I.D.: NPDES Sampling Support P.O.# N/A Sampler: Corey Wilson  
(Name)

Invoice to: Name Corey Wilson Company Leidos Address 18912 N Creek Pkwy City Bothell State WA Zip 98011 Ph# 425.398.0551 Fax# \_\_\_\_\_

Relinquished by: (Signature and Printed Name) [Signature] Corey Wilson Date: 9-2-14 Time: 1615 Received by: (Signature and Printed Name) [Signature] D. Benedict Date: 09/04/14 Time: 1020

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: Fed Ex

Add Analysis(es) Requested

Container(s)

ATTN: Sample Receiving

Tracking No.: \_\_\_\_\_

Quantity	Type	Matrix	Add Analysis(es) Requested											
			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

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	
QC-EB-01-20140903-W	9/3/14	0630	Cleanscapes / Water	3	A	AQ	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
CS-TS-01-20140903-W	9/3/14	1200	Cleanscapes / Water	4	A	AQ	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
CS-SP-01-20140903-W	9/3/14	1415	Cleanscapes / Water	3	A	AQ	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
CS-CB-01-20140903-S	9/3/14	1700	Cleanscapes / Sediment	1	G	SD	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

Special Instructions/Comments: Refer to contract agreement for confirmation of all analysis  
Please contact PM before disposal of any samples  
Only 3 bottles for QC-EB and CS-CB

SEND DOCUMENTATION AND RESULTS TO:

Name: Christine Nancarrow

Company: SAME AS ABOVE

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: 206.300.2144 Fax: \_\_\_\_\_

Email: nancarrowc@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 #: 1400647 TAT Std

<b>Samples Arrival:</b>	<b>Date/Time</b> 09/04/14 1014	<b>Initials:</b> UBB	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> NA
<b>Logged In:</b>	<b>Date/Time</b> 09/04/14 1558	<b>Initials:</b> UBB	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> B4/F2
<b>Delivered By:</b>	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
		<input type="checkbox"/> Other	
<b>Preservation:</b>	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
<b>Temp °C:</b> 4.8 (uncorrected)	<b>Time:</b> 1020		<b>Thermometer ID:</b> IR-2
<b>Temp °C:</b> 4.9 (corrected)			

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 8746 13130462	✓		
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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented?	NA	COC	Sample Container	None
Shipping Container	<input checked="" type="checkbox"/> Vista	Client	<input checked="" type="checkbox"/> Retain	Return
				Dispose

Comments:

## **EXTRACTION INFORMATION**

Process Sheet  
**Workorder: 1400647**

Prep Expiration: 09/03/2015  
 Client: Leidos

**Workorder Due: 25-Sep-14 00:00**

TAT: 21

Method: **1613 Full List**  
 Matrix: **Aqueous**  
 Client Matrix: Aqueous  
 Also run: **Percent Solids**

Prep Batch: B4I0020

Prep Data Entered: 9/9/14 ES  
Date and Initials

Initial Sequence: S4I0012

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400647-01	<input checked="" type="checkbox"/>	QC-EB-01-20140903-W	04-Sep-14 10:14	WR-2 B-4	
1400647-02	<input checked="" type="checkbox"/>	CS-TS-01-20140903-W	04-Sep-14 10:14	WR-2 B-4	
1400647-03	<input checked="" type="checkbox"/>	CS-SP-01-20140903-W	04-Sep-14 10:14	WR-2 B-4	

Vista PM: Martha Maier

Vial Box ID: savier

Sample Reconciled By: B. Smith 9814



D2216-90

BATCH ID

B410019

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C±5°C

Date/Time IN: 9/8/14 9:05  
Date/Time OUT: 9/9/14 8:37

INST HRMS-4

Pan #	SampID	Source ID	SampType	E		H	K	M N O P				
				Initial and Date:				Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After
	1400644-01		Sample	1.2700	15.7900	1.2700	0.0000	0.00	7	N/A	N/A	0
	1400647-01		Sample	1.2700	15.6100	1.2700	0.0000	0.00	5	N/A	N/A	0
	1400647-02		Sample	1.2600	18.0300	1.2600	0.0000	0.00	6	N/A	N/A	0
	1400647-03		Sample	1.2600	17.2500	1.2600	0.0000	0.00	6	N/A	N/A	0
	1400649-01		Sample	1.2600	26.9300	1.2700	0.0100	0.04	6	N/A	N/A	0

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B410019

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: 9/8/14 09:05  
Date/Time OUT: 9/9/14 3:37

INST HRMS-4

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH			
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				Before	After	Acid Added	Cl-
	1400644-01		Sample	1.27	15.79	1.27			7	MA	MA	O
	1400647-01		Sample	1.27	15.61	1.27			5	↓	↓	↓
	1400647-02		Sample	1.26	18.03	1.26			6	↓	↓	↓
	1400647-03		Sample	1.26	17.25	1.26			6	↓	↓	↓
	1400649-01		Sample	1.26	26.93	1.27			6	↓	↓	↓

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 TCDD Only

B4I0020

Chemist: B. Smith

Prep Date/Time: 08-Sep-14 08:23

Prepared using: HRMS - SPE Extraction

C	VISTA Sample ID	Bottle + Sample (L)	Bottle Only (L)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B4I0020-BLK1	N/A	N/A	1.000	BMS 9/18/14	ES V6 9/9/14	N/A	ES 9/9/14	ES 9/9/14	ES 9/9/14	ES BMS 9/9/14
<input type="checkbox"/>	B4I0020-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400644-01	1304.34	391.76	0.91258	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-01	1450.45	503.76	0.94669	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-02	1476.43	503.74	0.97269	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-03	1514.37	504.06	1.01031	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400649-01	1307.56	388.80	0.91876	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V1</u>	NS Name <u>V15</u>	CRS Name <u>V3</u>	RS Name <u>V3</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>BMS 9/18/14</u>
PCDD/F <u>1330101, 10µL</u>	PCDD/F <u>1341101, 10µL</u>	PCDD/F <u>1330103, 10µL</u>	PCDD/F <u>1330703, 10µL</u>	Start Date/Time <u>9/18/14 8:55</u>	SOLV: <u>Tol</u>	Chemist/Date: <u>BMS 9/18/14</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>9/19/14 8:55</u>	Other: <u>MA</u>	Check In: <u>empty ↓</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20µL</u>	<u>Cl4</u>	Chemist/Date: <u>HRMS-4</u>
						Balance ID: <u>HRMS-4</u>

Comments:

Process Sheet  
Workorder: 1400647

Prep Expiration: 09/03/2015  
Client: Leidos

Workorder Due: 25-Sep-14 00:00

TAT: 21

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

Prep Batch: B4I0031

Prep Data Entered: 9/11/14 ER  
Date and Initials

Initial Sequence: S4I0021 9

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400647-04 (A)	<input checked="" type="checkbox"/>	CS-CB-01-20140903-S	04-Sep-14 10:14	WR-2 F-2	S4I0021 <sup>m</sup> 9/17/14

(A) Sample has petroleum like smell SK 9/8/14

5g

Vista PM: Martha Maier

Vial Box ID: Steak

Sample Reconciled By: S. Roughton 9/8/2014

Solids estimate

Batch: B4I0023

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400647-04	Percent Solids	40.69		5.00	12.29
1400651-01	Percent Solids	95.20		5.00	5.25
1400651-02	Percent Solids	84.12		5.00	5.94

Analyst: S.Roughton

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: 9/8/14 16:13 Date/Time OUT: 9/10/14 8:22

HRMS-2

B		C	D	E		G		H	K	M	N	O	P
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			
				Pan Tare Wt. (gms)	Date					pH Before	pH After	Acid Added	Cl-
	1400647-04		Sample	1.30	8R 9/8/14	7.96	4.01						
	1400651-01		Sample	1.28	8D 9/10/14	4.61	4.45						
	1400651-02		Sample	1.30		7.85	6.81						

D2216-90

BATCH ID

B410023

Analyst: S.Roughton

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: 9/8/14 16:13  
Date/Time OUT: 9/10/14 8:22

HRMS-2

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	N/A			Cl-
				SR 9/8/14	ES 9/10/14				pH Before	pH After	Acid Added	
	1400647-04		Sample	Pan Tare Wt. (gms) 1.3000	Wet Pan and Sample Weight (g) 7.9600	4.0100	2.7100	40.69	N/A	N/A	N/A	N/A
	1400651-01		Sample	1.2800	4.6100	4.4500	3.1700	95.20	N/A	N/A	N/A	N/A
	1400651-02		Sample	1.3000	7.8500	6.8100	5.5100	84.12	N/A	N/A	N/A	N/A

PREPARATION BENCH SHEET

Matrix: Solid

B4I0031

Chemist: E. Schneider

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 10-Sep-14 09:14

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C4I0038 AP CHEM/DATE	C4I0039 ABSG CHEM/DATE	C4I0039 AA CHEM/DATE	C4I0040 Florisil CHEM/DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B4I0031-BLK1 (A)(C)	5.00	(5.00)	ES 16 9/10/14	ES 82 9/11/14	ES 9/11/14	ES 9/11/14	ES 9/11/14	ES 9/11/14	ES 82 9/11/14
<input type="checkbox"/>	B4I0031-BS1 (A)(C)	5.00	(5.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-04 (A)(B)(C)(D)	12.29	1230	↓	↓	↓	↓	↓	↓	↓

- (A) Hydramatrix used in sample extraction. ES 9/10/14 Lot # CE107610
- (B) Sample has an oily-sheen. ES 9/10/14
- (C) Second acid partition performed. ES 9/11/14
- (D) 1:10 Dilution made per request. ES 9/12/14

IS Name <u>V1</u>	NS Name <u>V14</u>	CRS Name <u>V3</u>	RS Name <u>V3</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>ES 9/10/14</u>
PCDD/F <u>13J0101, 10µL</u>	PCDD/F <u>13L1101, 10µL</u>	PCDD/F <u>13J0103, 10µL</u>	PCDD/F <u>13J0703, 10µL</u>	Start Date/Time: <u>9/10/14 1512</u>	SOLV: <u>TOL</u>	Check In: Chemist/Date: <u>↓</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time: <u>9/11/14 0738</u>	Other: <u>N/A</u>	Balance ID: <u>HRMS-2</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s): <u>20µL</u>	
					<u>014</u>	

Comments:



Process Sheet  
Workorder: **1400647**

Prep Expiration: 09/03/2015  
Client: Leidos

Workorder Due: **25-Sep-14 00:00**

TAT: 21

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

Prep Batch: B4I0025

Prep Data Entered: 9/10/14 BMS  
Date and Initials

Initial Sequence: 54I0016E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400647-01	<input checked="" type="checkbox"/>	QC-EB-01-20140903-W	04-Sep-14 10:14	WR-2 B-4	B
1400647-02	<input checked="" type="checkbox"/>	CS-TS-01-20140903-W	04-Sep-14 10:14	WR-2 B-4	J
1400647-03	<input checked="" type="checkbox"/>	CS-SP-01-20140903-W	04-Sep-14 10:14	WR-2 B-4	J

Vista PM: Martha Maier

Vial Box ID: Samarones

Sample Reconciled By: B. Smith 99.14

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B4I0024

<b>Analyst:</b> B. Smith	<b>Test Code:</b> %Moist/%Solids
<b>Analyte:</b> Dried at 110°C+/-5°C	<b>Units:</b> %

Date/Time IN: 9/9/14 08:52    Date/Time OUT: 9/10/14 08:21

INST HRMS-4

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH			Cl-
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				Before	After	Acid Added	
	1400647-01RE1		Sample	1.25	12.90	1.25			5	2	10	0
	1400647-02RE1		Sample	1.26	14.71	1.27			6	2	10	↓
	1400647-03RE1		Sample	1.26	25.70	1.27			6	3	10	↓
		Ⓟ Acid added in drops										
	B4I0025-M6								5	2	10	0
	B4I0025-B5								5	2	10	0

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B4I0024

Analyst: B. Smith

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

9/9/14 0852 9/10/14 0821

INST HRMS-4

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	BMS 9/9/14			Cl-
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				BMS 9/9/14	pH Before	pH After	
	1400647-01RE1		Sample	1.2500	12.9000	1.2500	0.0000	0.00	5	2	10	0
	1400647-02RE1		Sample	1.2600	14.7100	1.2700	0.0100	0.07	6	2	10	0
	1400647-03RE1		Sample	1.2600	25.7000	1.2700	0.0100	0.04	6	3	10	0
	B4I0025-MB								5	2	10	0
	B4I0025-BS								5	2	10	0

PREPARATION BENCH SHEET

Matrix: Aqueous  
Method: 1668C Full List

B4I0025

Chemist: B. Smith  
Prep Date/Time: 09-Sep-14 08:20

Prepared using: HRMS - Separatory Funnel

C	VISTA Sample ID	Bottle + Sample (L)	Bottle Only (L)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B4I0025-BLK1 (B)	NA	NA	(1.000)	<del>BMS 8/19/14</del>	<del>BMS 8/19/14</del>	MA	BMS 9/9/14	MA	MA	BMS 8/19/14
<input type="checkbox"/>	B4I0025-BS (B)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-01	1483.55	503.19	0.98036	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-02 (AB)	1436.88	503.13	0.93375	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-03 (AB)	1513.45	503.10	1.01035	↓	↓	↓	↓	↓	↓	↓

(A) Formed emulsions. BMS 9/9/14  
(B) Added boiling stones. BMS 9/9/14

IS Name <u>V2</u>	NS Name <u>V5</u>	CRS Name <u>V3</u>	RS Name <u>V3</u>	Cycle Time	APP: <u>SEFUN</u> SOX SDS	Check Out: <u>BMS 9/9/14</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time	SOLV: <u>DCM</u>	Chemist/Date: <u>BMS 9/9/14</u>
PCB <u>14A3001, 10uL</u>	PCB <u>13F2503, 10uL</u>	PCB <u>14A3002, 10uL</u>	PCB <u>14A3003, 10uL</u>	<u>NA</u>	Other <u>MA</u>	Check In: <u>empty ↓</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>20uL</u>	Chemist/Date: <u>empty ↓</u>
				<u>NA</u>	<u>C1</u>	Balance ID: <u>HRMS-4</u>

Comments:

Process Sheet  
Workorder: 1400647

Prep Expiration: 09/03/2015  
Client: Leidos

Workorder Due: 25-Sep-14 00:00  
TAT: 21

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

Prep Batch: B4I0032

Prep Data Entered: 9/12/14 ES  
Date and Initials

Initial Sequence: 5410016E  
DMS 9/10/14

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400647-04 (B)	<input checked="" type="checkbox"/>	CS-CB-01-20140903-S	04-Sep-14 10:14	WR-2 F-2	

- (A) Sample reconciled on 9/8/2014 SR 9/10/14
- (B) Sample has petroleum like smell SR 9/10/14

3g

Vista PM: Martha Maier

Vial Box ID: Inag

Sample Reconciled By: S. Roughton (A) 9/10/2014

Solids estimate

Batch: B4I0023

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400647-04	Percent Solids	40.69		3.00	7.37
1400651-01	Percent Solids	95.20		3.00	3.15
1400651-02	Percent Solids	84.12		3.00	3.57

D2216-90

BATCH ID

B410023

Analyst: S.Roughton

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

9/8/14 16:13 9/10/14 8:22

HRMS-2

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	N/A			
				Pan Tare Wt. (gms)	SR 9/8/14				ES 9/10/14	pH Before	pH After	Acid Added
	1400647-04		Sample	1.3000	7.9800	4.0100	2.7100	40.69	N/A	N/A	N/A	N/A
	1400651-01		Sample	1.2800	4.6100	4.4500	3.1700	95.20	N/A	N/A	N/A	N/A
	1400651-02		Sample	1.3000	7.8500	6.8100	5.5100	84.12	N/A	N/A	N/A	N/A

D2216-90

BATCH ID

B410023

Analyst: S.Roughton

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

9/8/14 16:13 9/10/14 8:22

HRMS-2

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Sample Weight (g)	%Solids RawVal	N/A			Cl-
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)			pH Before	pH After	Acid Added	
	1400647-04		Sample	1.30	7.96	4.01					
	1400651-01		Sample	1.28	4.61	4.45					
	1400651-02		Sample	1.30	7.85	6.81					



PREPARATION BENCH SHEET

Matrix: Solid

B4I0032

Chemist: E. Schneider

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 10-Sep-14 09:16

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C4I0046	C4I0047	NA	NA	RS CHEM/WIT DATE
						AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	B4I0032-BLK1 (A)(C)	3.00	(3.00)	ES 16 9/10/14	ES SR 9/12/14	ES 9/12/14	ES 9/12/14	MA	N/A	ES SR 9/12/14
<input type="checkbox"/>	B4I0032-BS1 (A)(C)	3.00	(3.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400647-04 (A)(B)(C)(D)(E)	7.37	7.38	↓	↓	↓	↓	↓	↓	↓

- (A) Hydromatrix used in sample extraction. ES 9/10/14 Lot # CE107610
- (B) Sample has an oily-sheen. ES 9/10/14
- (C) Second acid partition performed. ES 9/12/14
- (D) 1:20 dilution made per request. ES 9/12/14
- (E) Sample cloudy at final volume. ES 9/12/14
- (F) Sample final volume to about 220µL. ES 9/12/14

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX (SDS)	Check Out:
PCDD/F (V3)	PCDD/F (V3)	PCDD/F (V3) ES 9/12/14	PCDD/F (V3)	Start Date/Time	SOLV: TOL	Chemist/Date: ES 9/10/14
PCB 14D2901, 10µL	PCB 14F1301, 10µL	PCB 14F1301, 10µL 14D2903	PCB 14D2904, 10µL	9/10/14 1512	Other: N/A	Check In:
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) 100µL	Chemist/Date: ↓
				9/11/14 0730	C9	Balance ID: HRMS-2

Comments:

**SAMPLE DATA**

**EPA Method 1613**

Client ID: Method Blank  
Lab ID: B4I0020-BLK1

Filename: 140909D1 S:8 Acq: 9-SEP-14 18:41:03  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140909D1-1  
EndCAL: NA

Page 3 of 3

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 $\eta$	*	*	803	2.5	1.15		Total Tetra-Dioxins	*	*		803	1.15
1,2,3,7,8-PeCDD	*	* n	0.84	NotF $\eta$	*	*	502	2.5	0.673		Total Penta-Dioxins	*	0.400	*	*	*
1,2,3,4,7,8-HxCDD	*	* n	1.05	NotF $\eta$	*	*	599	2.5	1.92		Total Hexa-Dioxins	*	*	*	984	3.29
1,2,3,6,7,8-HxCDD	*	* n	1.04	NotF $\eta$	*	*	599	2.5	2.00		Total Hepta-Dioxins	*	*	*	643	2.29
1,2,3,7,8,9-HxCDD	*	* n	0.90	NotF $\eta$	*	*	599	2.5	2.08		Total Tetra-Furans	*	*	*	401	0.556
1,2,3,4,6,7,8-HpCDD	*	* n	1.01	NotF $\eta$	*	*	411	2.5	1.46		Total Penta-Furans	0.0000	0.0000	*	877	1.27
OCDD	*	* n	1.04	NotF $\eta$	*	*	1620	1.0	2.94		Total Hexa-Furans	*	*	*	770	1.02
											Total Hepta-Furans	*	*	*	651	1.10
2,3,7,8-TCDF	*	* n	0.91	NotF $\eta$	*	*	401	2.5	0.556							
1,2,3,7,8-PeCDF	*	* n	0.97	NotF $\eta$	*	*	526	2.5	0.793							
2,3,4,7,8-PeCDF	*	* n	0.94	NotF $\eta$	*	*	526	2.5	0.733							
1,2,3,4,7,8-HxCDF	*	* n	1.32	NotF $\eta$	*	*	770	2.5	0.834							
1,2,3,6,7,8-HxCDF	*	* n	1.18	NotF $\eta$	*	*	770	2.5	0.885							
2,3,4,6,7,8-HxCDF	*	* n	1.23	NotF $\eta$	*	*	389	2.5	0.526							
1,2,3,7,8,9-HxCDF	*	* n	1.13	NotF $\eta$	*	*	389	2.5	0.703							
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	NotF $\eta$	*	*	651	2.5	1.04							
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	NotF $\eta$	*	*	446	2.5	0.799							
OCDF	*	* n	1.05	NotF $\eta$	*	*	1150	1.0	1.66							
											Rec	Qual				
IS	13C-2,3,7,8-TCDD	2.16e+07	0.78 y	1.06	26:59	1.021	1624.1				81.2					
IS	13C-1,2,3,7,8-PeCDD	2.18e+07	0.63 y	1.08	31:26	1.189	1611.4				80.6					
IS	13C-1,2,3,4,7,8-HxCDD	1.45e+07	1.31 y	0.74	34:47	1.014	1599.8				80.0					
IS	13C-1,2,3,6,7,8-HxCDD	1.49e+07	1.26 y	0.75	34:54	1.017	1632.8				81.6					
IS	13C-1,2,3,7,8,9-HxCDD	1.67e+07	1.22 y	0.89	35:12	1.026	1534.8				76.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.30e+07	1.05 y	0.70	38:39	1.127	1522.9				76.1					
IS	13C-OCDD	2.24e+07	0.88 y	0.59	42:01	1.225	3122.2				78.1					
IS	13C-2,3,7,8-TCDF	2.76e+07	0.74 y	0.97	26:13	0.992	1569.5				78.5					
IS	13C-1,2,3,7,8-PeCDF	2.58e+07	1.55 y	0.99	30:16	1.145	1433.5				71.7					
IS	13C-2,3,4,7,8-PeCDF	2.85e+07	1.56 y	1.01	31:09	1.179	1552.8				77.6					
IS	13C-1,2,3,4,7,8-HxCDF	1.92e+07	0.51 y	0.94	33:53	0.988	1677.2				83.9					
IS	13C-1,2,3,6,7,8-HxCDF	2.21e+07	0.52 y	1.23	34:01	0.991	1475.5				73.8					
IS	13C-2,3,4,6,7,8-HxCDF	1.93e+07	0.52 y	1.03	34:37	1.009	1531.6				76.6					
IS	13C-1,2,3,7,8,9-HxCDF	1.72e+07	0.50 y	0.89	35:35	1.037	1590.6				79.5					
IS	13C-1,2,3,4,6,7,8-HpCDF	1.44e+07	0.44 y	0.71	37:28	1.092	1669.3				83.5					
IS	13C-1,2,3,4,7,8,9-HpCDF	1.26e+07	0.44 y	0.64	39:12	1.143	1604.0				80.2					
IS	13C-OCDF	2.71e+07	0.87 y	0.76	42:15	1.231	2933.0				73.3					
C/Up	37C1-2,3,7,8-TCDD	9.61e+06		1.04	26:60	1.021	736.27				92.0					
RS/RT	13C-1,2,3,4-TCDD	2.50e+07	0.79 y	1.00	26:26	*	2000.0									
RS	13C-1,2,3,4-TCDF	3.64e+07	0.74 y	1.00	25:03	*	2000.0									
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.44e+07	0.51 y	1.00	34:19	*	2000.0									

Integrations  
by  
Analyst: MS  
Date: 9/10/14  
Reviewed  
by  
Analyst: MS  
Date: 9/10/14

Totals class: PeCDD EMPC

Entry #: 21

Run: 9 File: 140909D1 S: 8 I: 1 F: 2

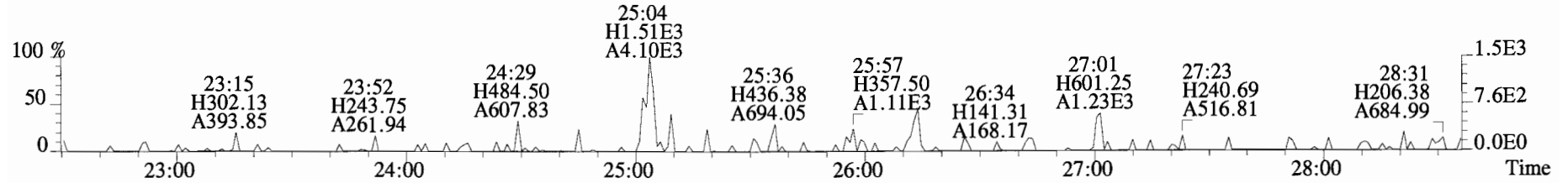
Acquired: 9-SEP-14 18:41:03 Processed: 10-SEP-14 09:18:27

Total Concentration: 0.40040

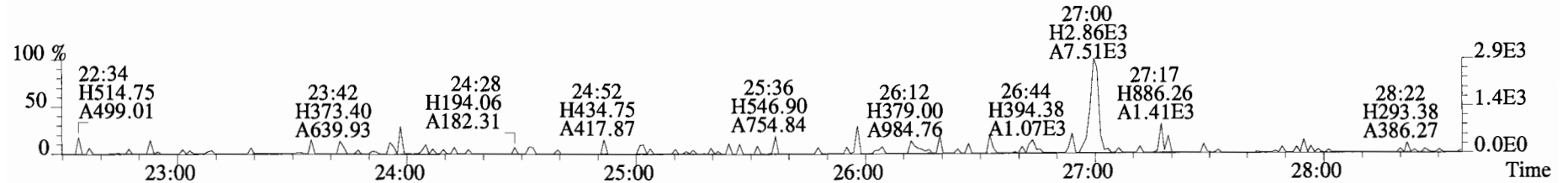
Unnamed Concentration: 0.400

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
30:16	4.753e+03	2.256e+03	2.11 n	3.677e+03	0.40040

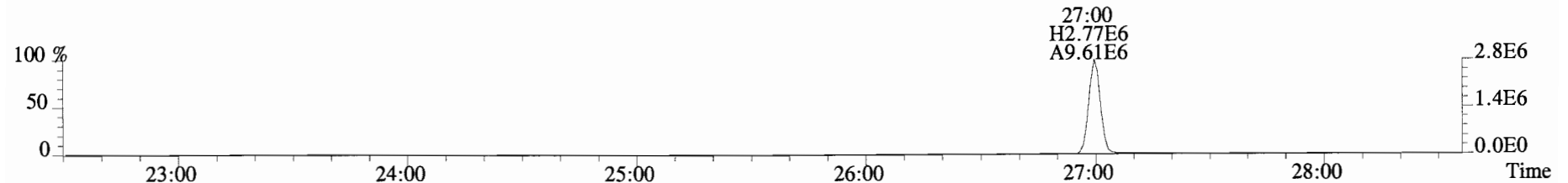
File:140909D1 #1-552 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



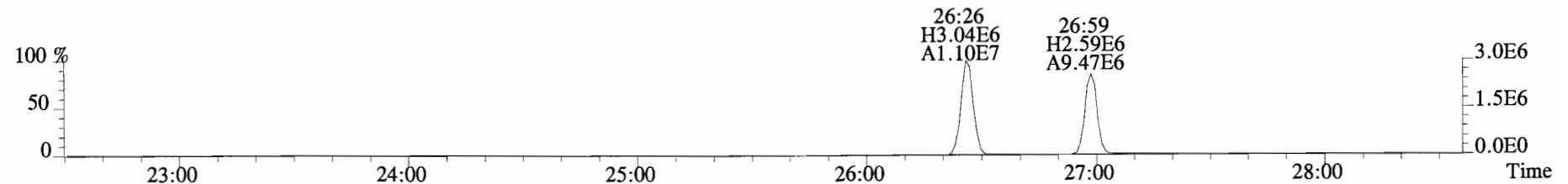
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



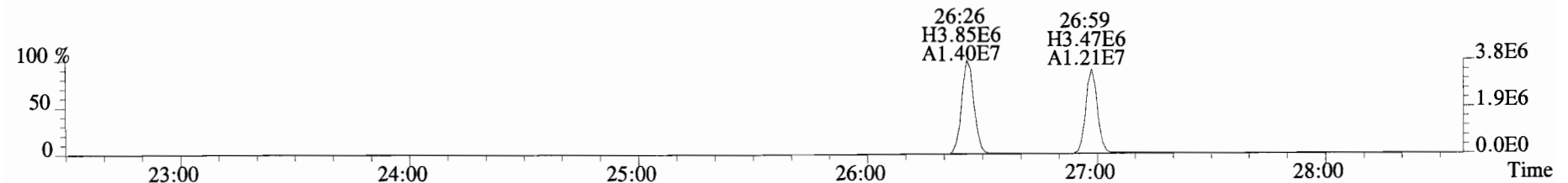
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



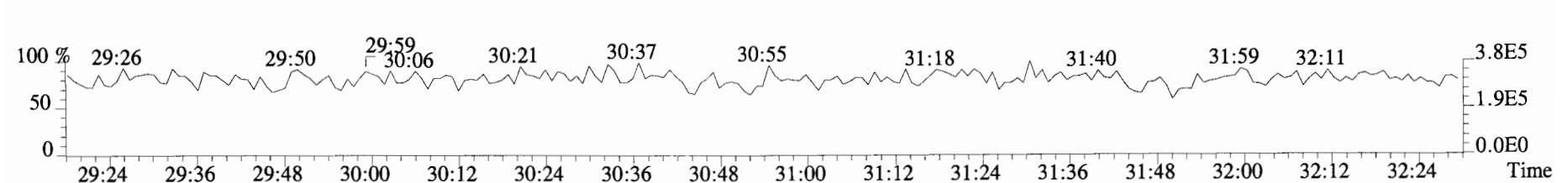
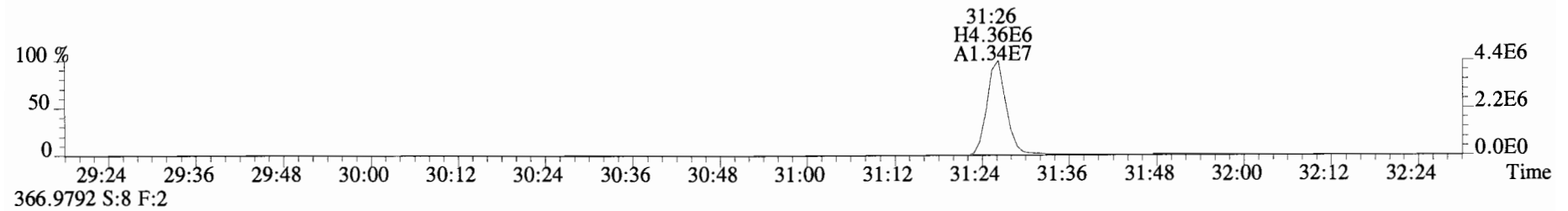
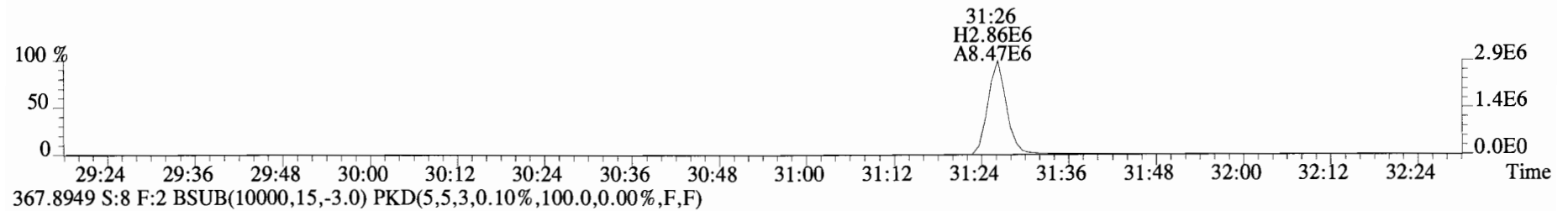
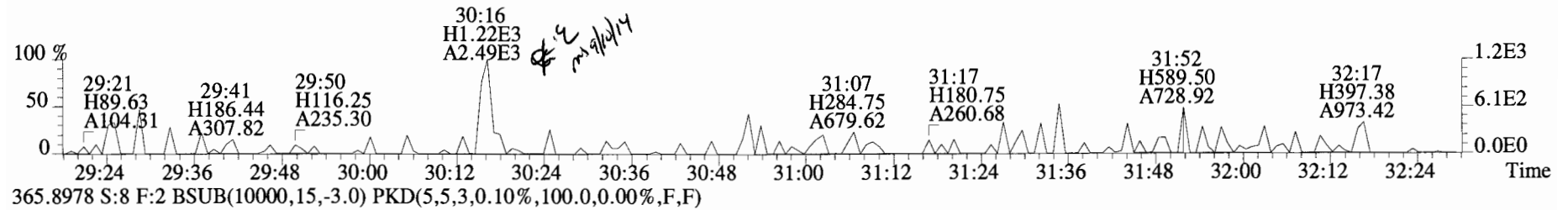
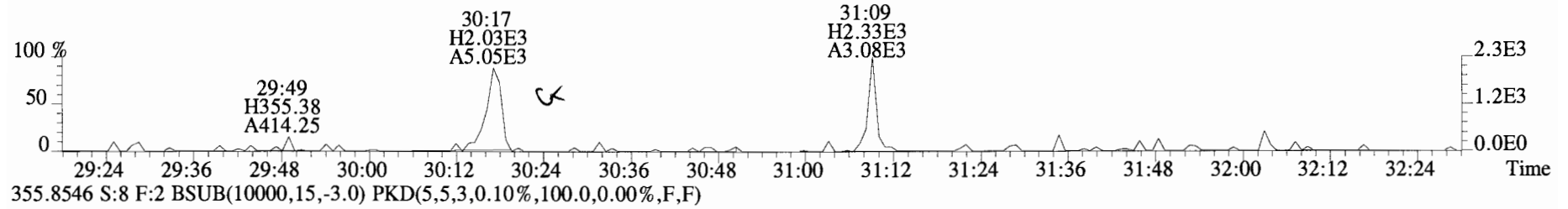
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



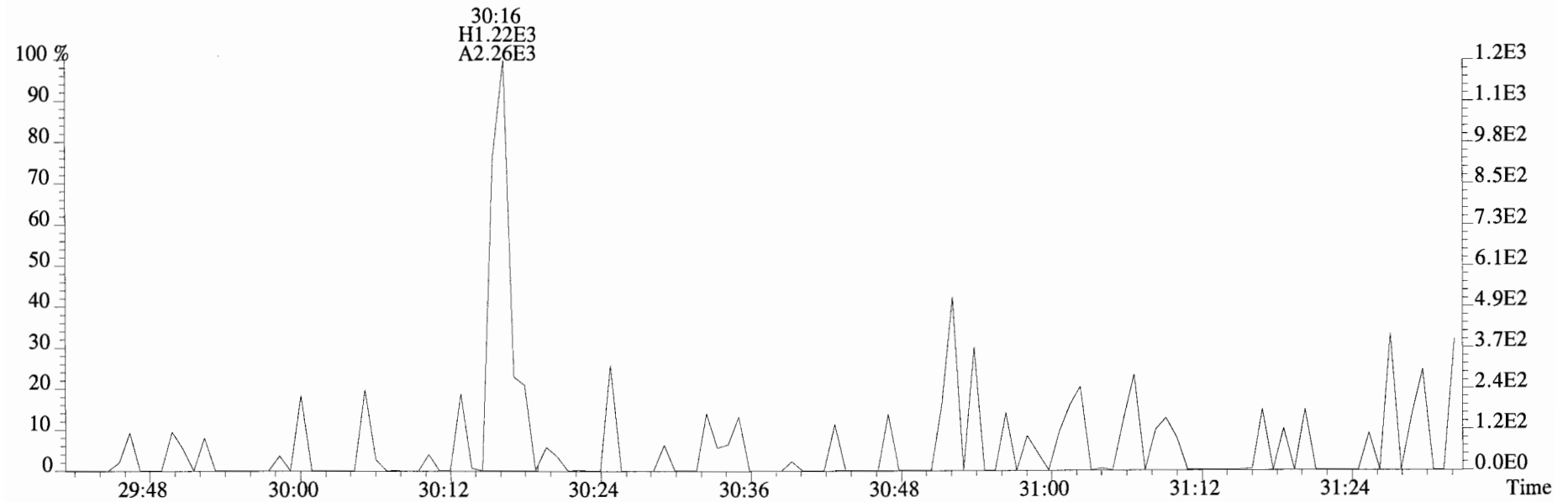
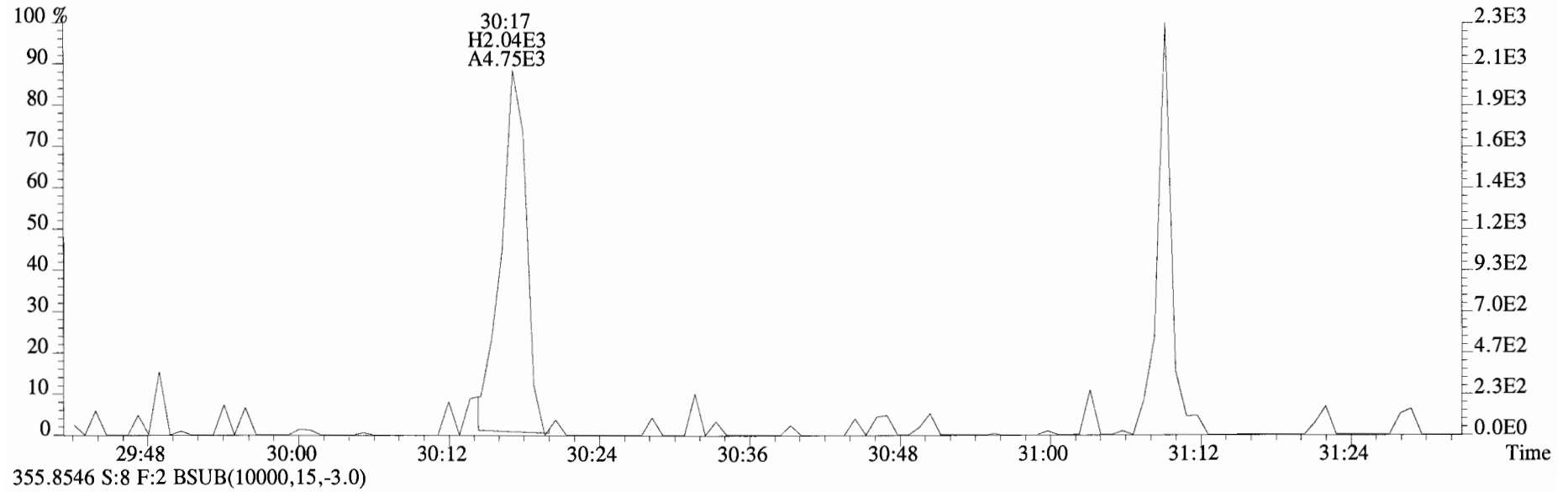
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



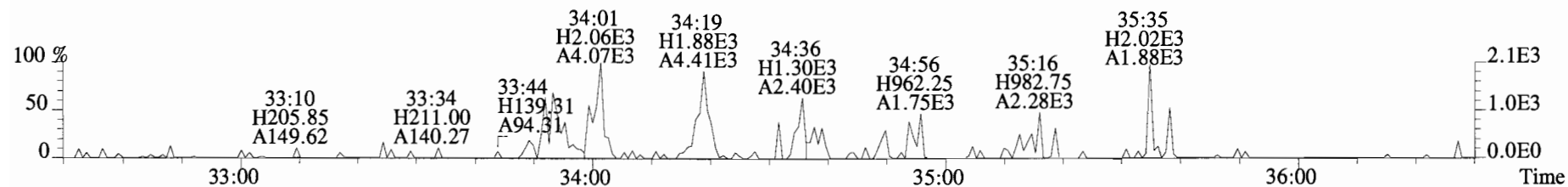
File:140909D1 #1-256 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BLK1 Method Blank 1 Exp: OCDD\_DB5  
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



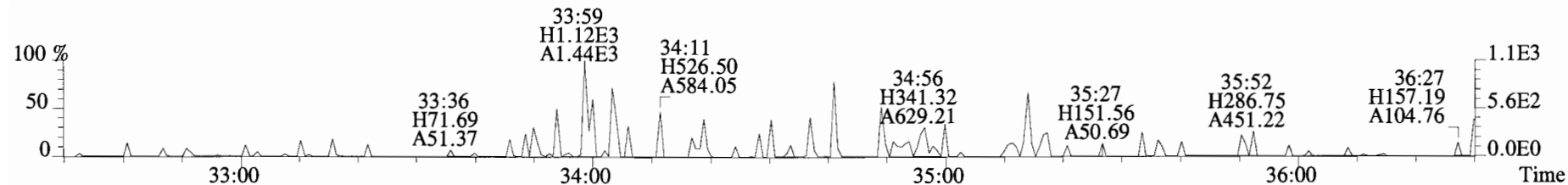
File:140909D1 #1-256 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
353.8576 S:8 F:2 BSUB(10000,15,-3.0)



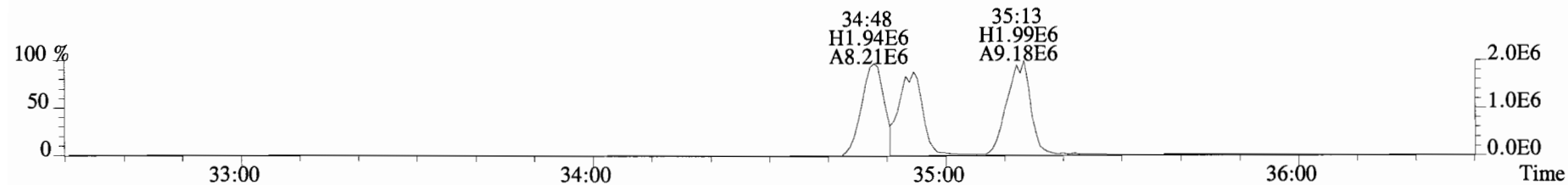
File:140909D1 #1-385 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text: B410020-BLK1 Method Blank 1 Exp: OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



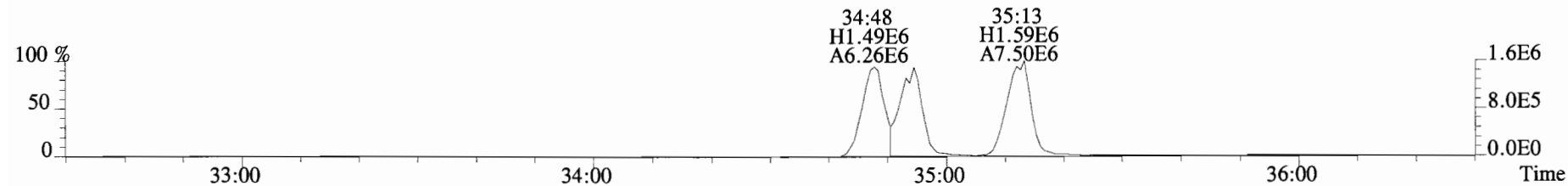
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



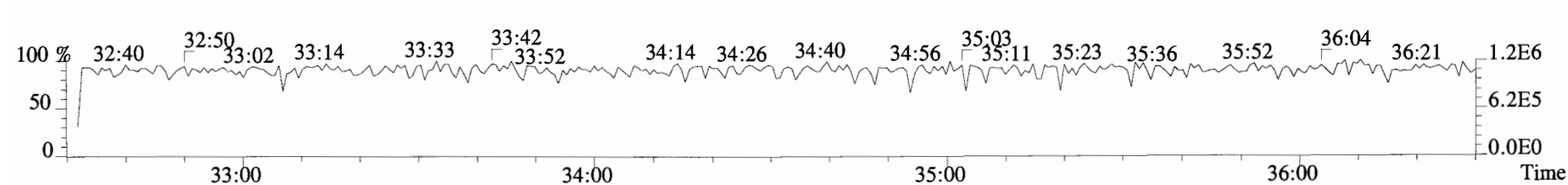
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

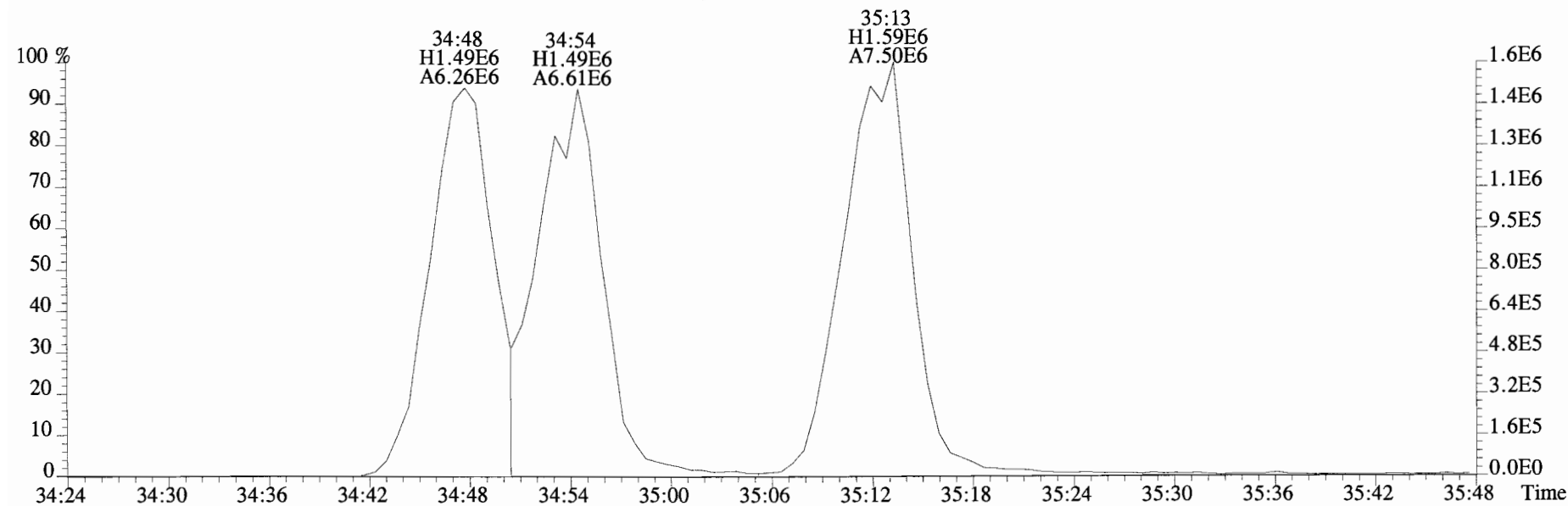
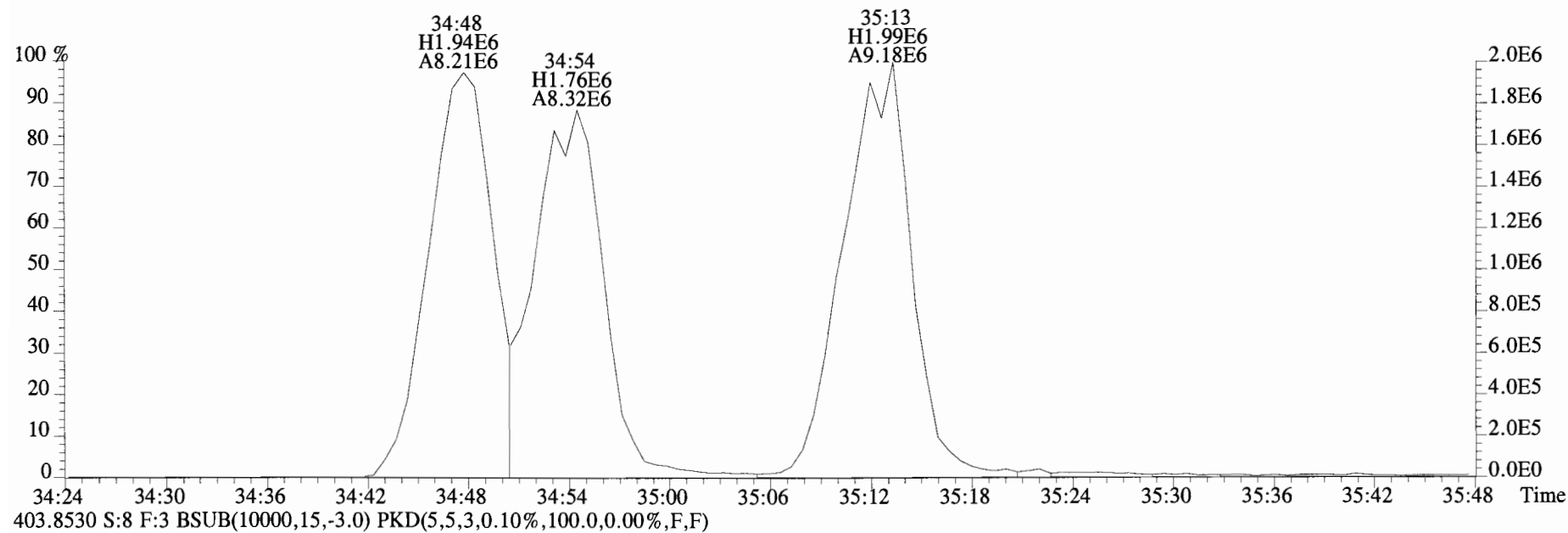


380.9760 S:8 F:3

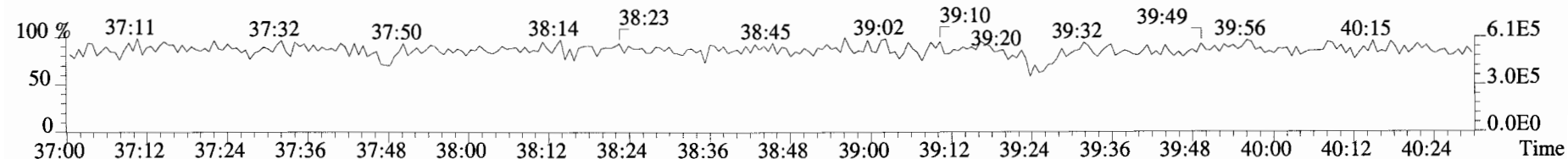
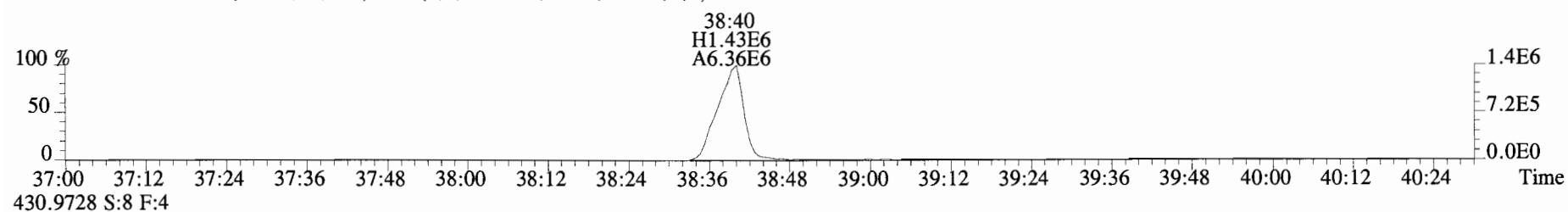
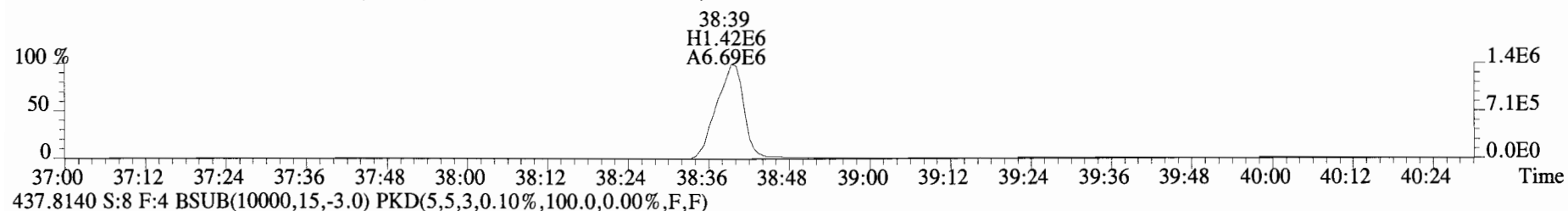
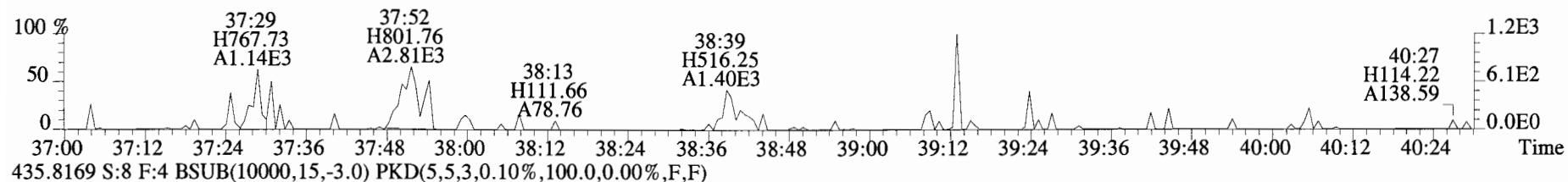
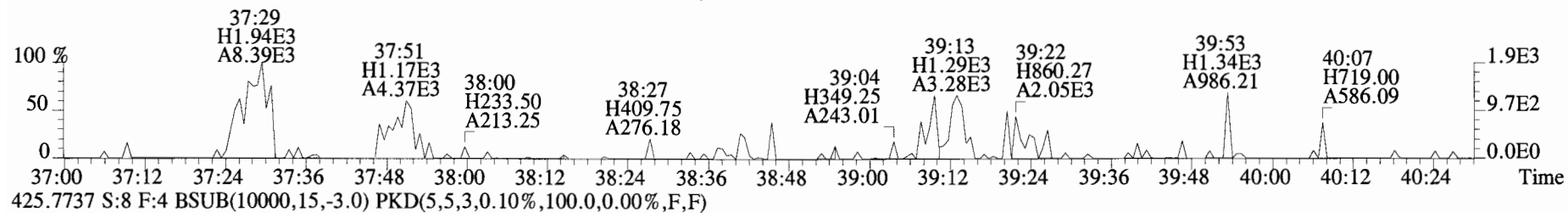




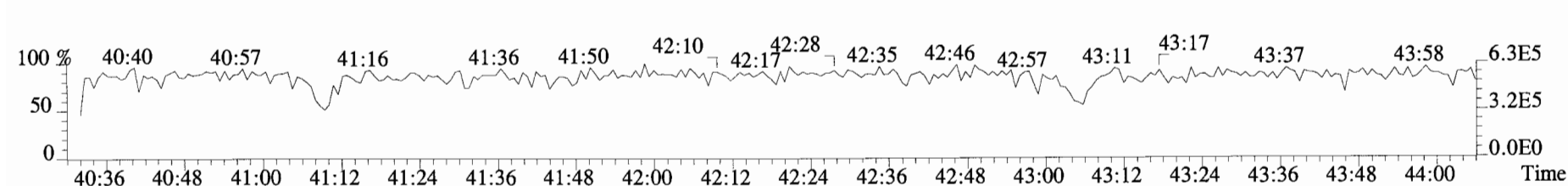
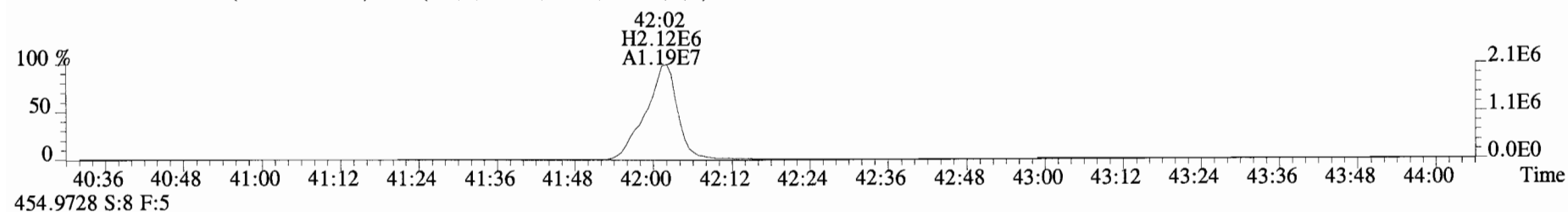
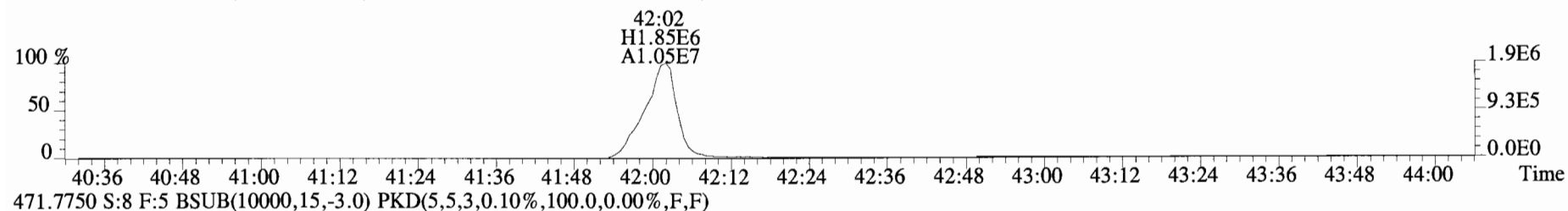
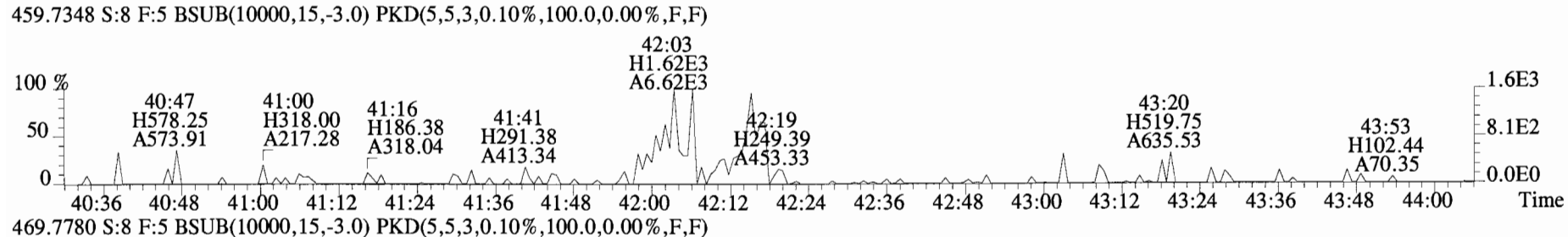
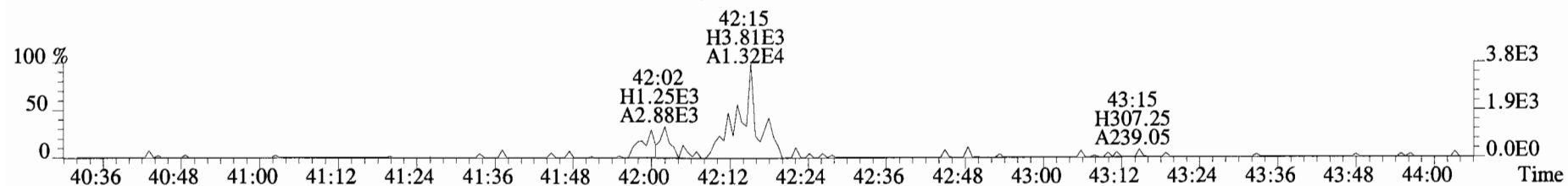
File:140909D1 #1-385 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



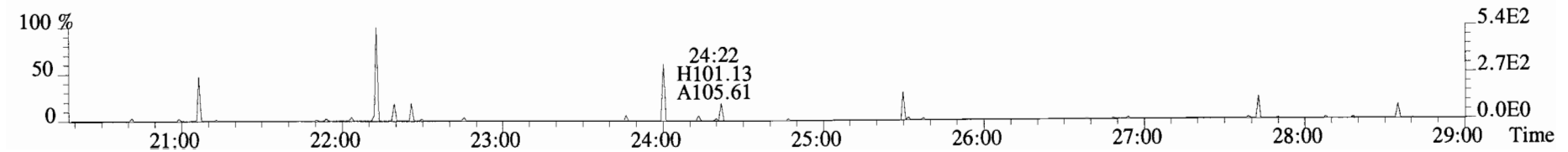
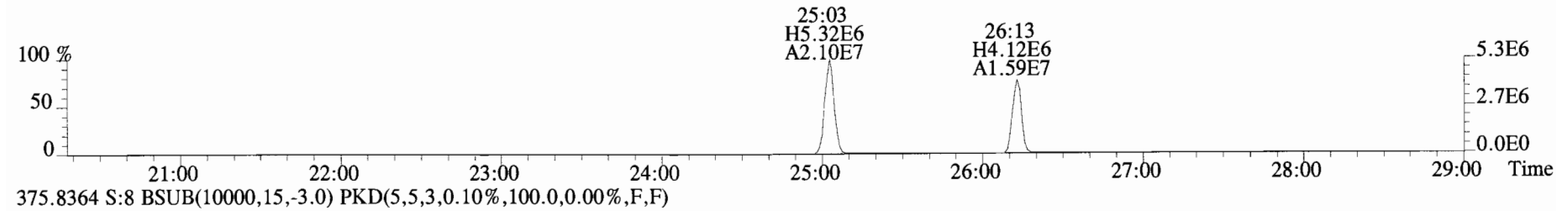
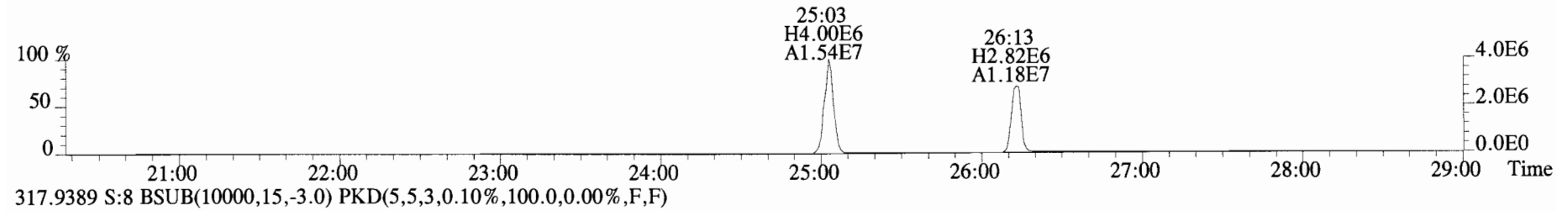
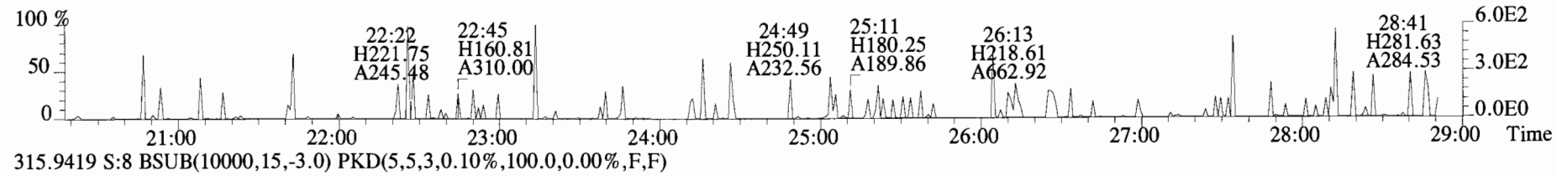
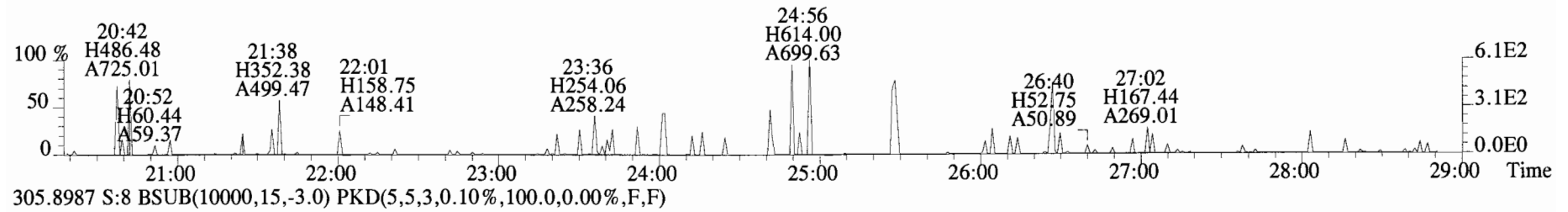
File:140909D1 #1-326 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



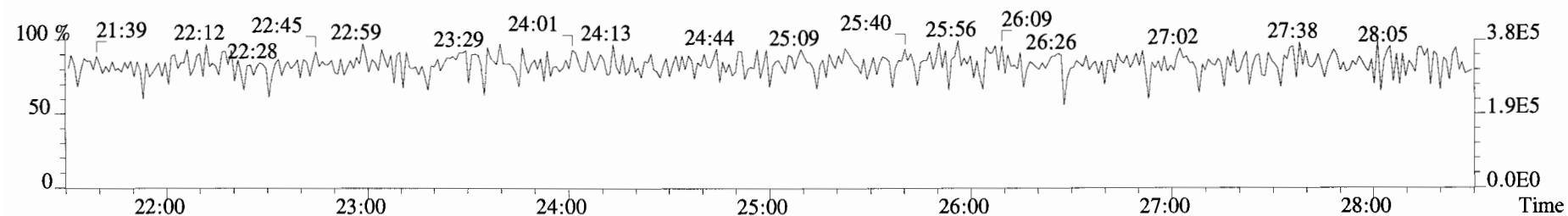
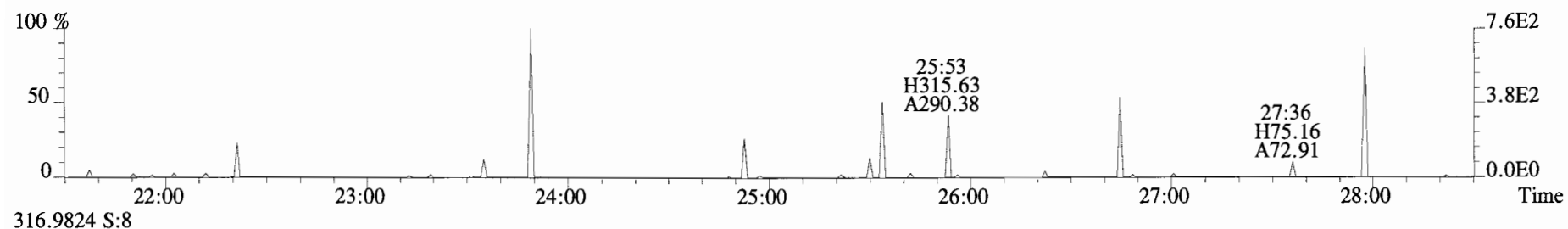
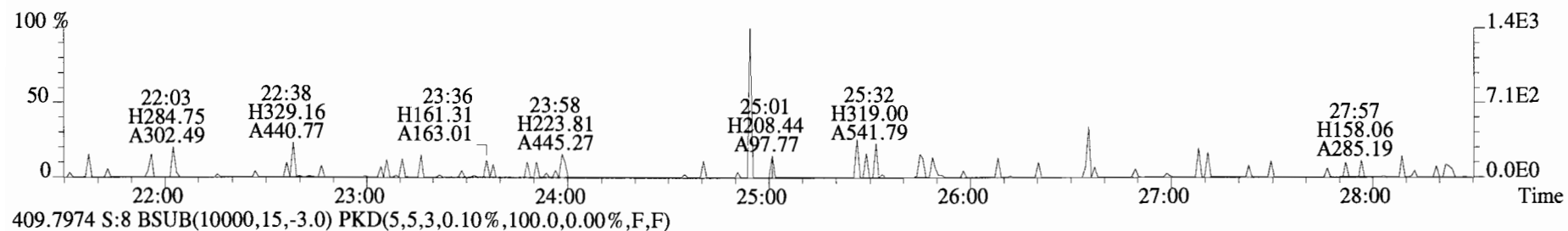
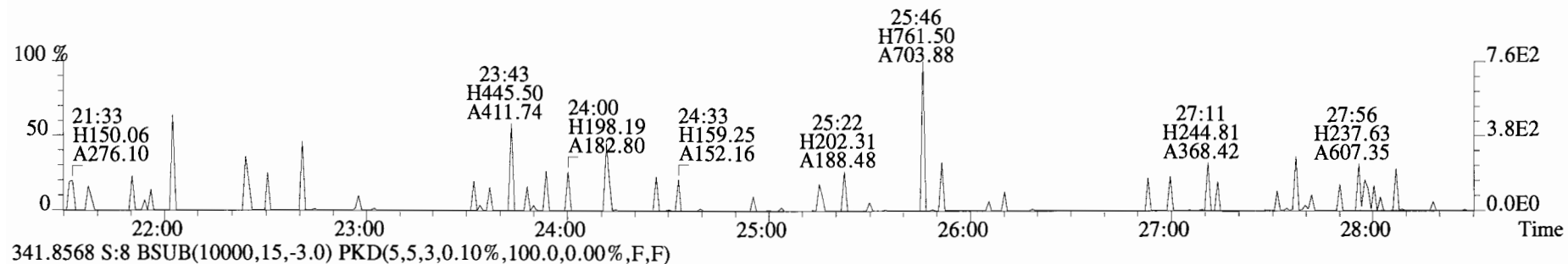
File:140909D1 #1-389 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



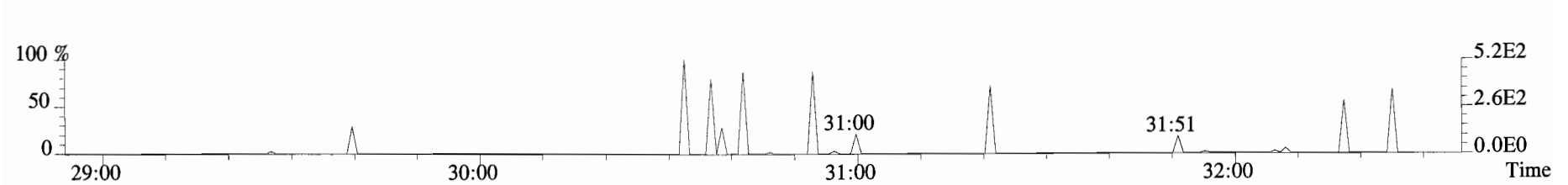
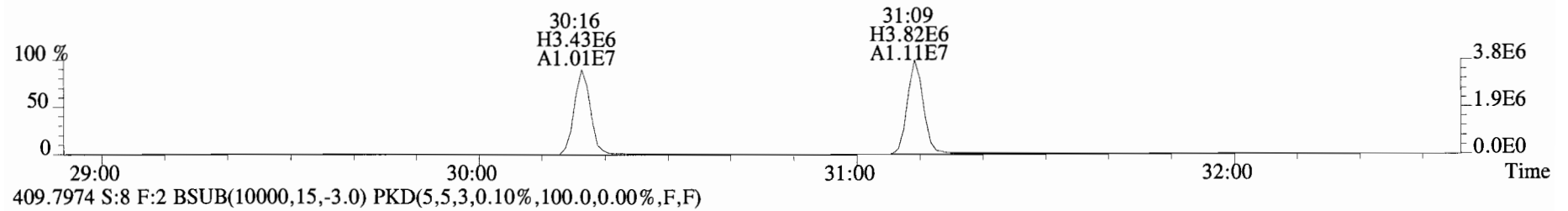
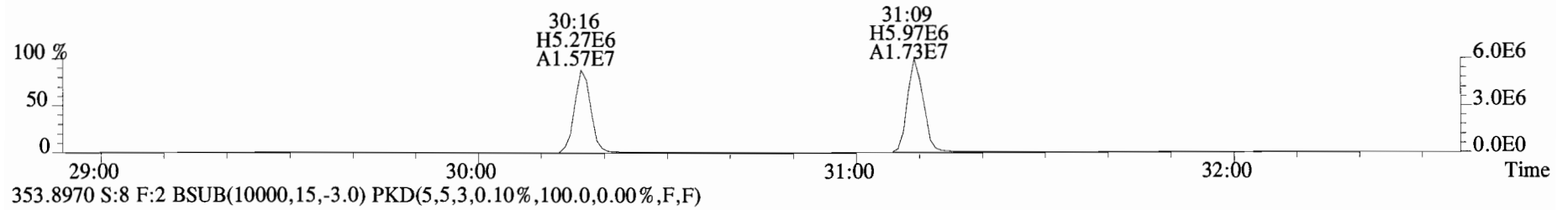
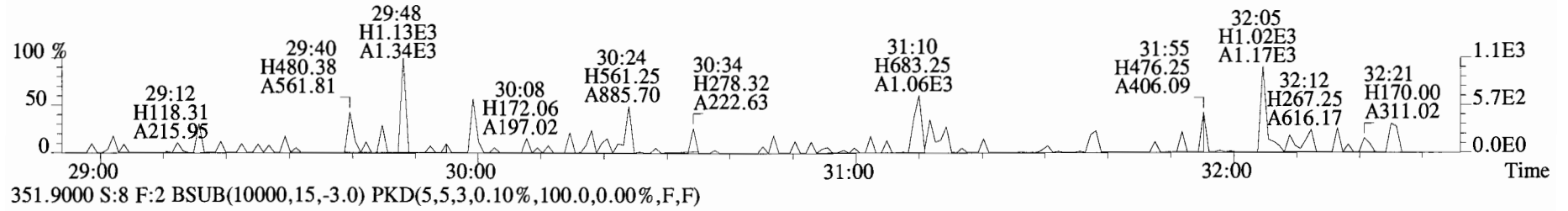
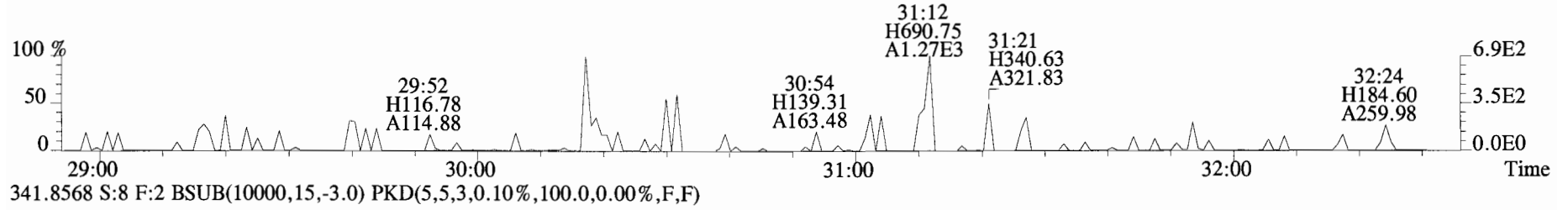
File:140909D1 #1-552 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



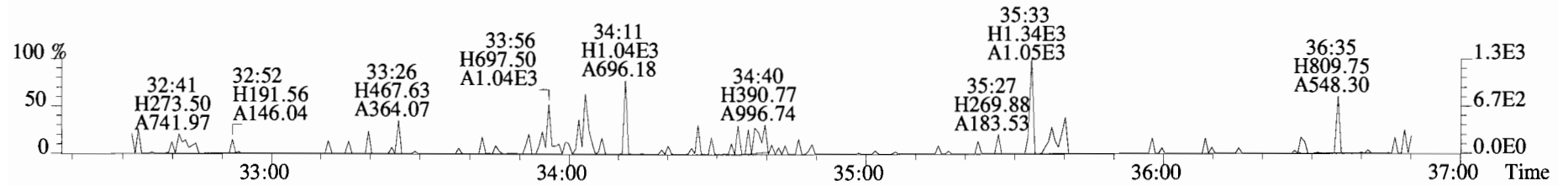
File:140909D1 #1-552 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BLK1 Method Blank 1 Exp: OCDD\_DB5  
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



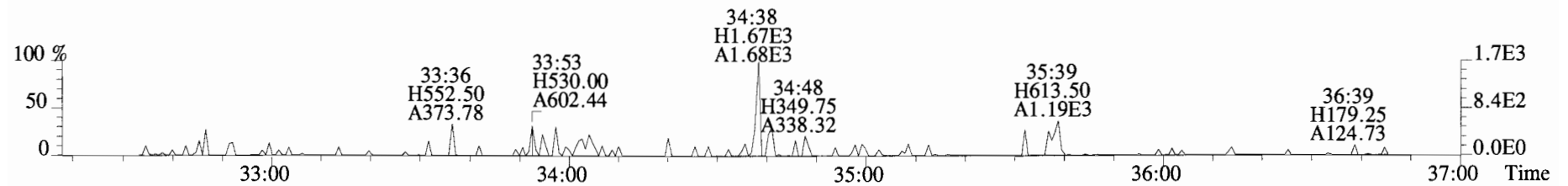
File:140909D1 #1-256 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



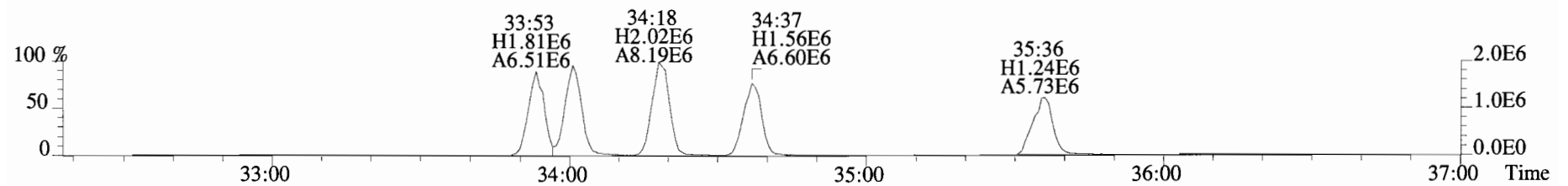
File:140909D1 #1-385 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text: B410020-BLK1 Method Blank 1 Exp: OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



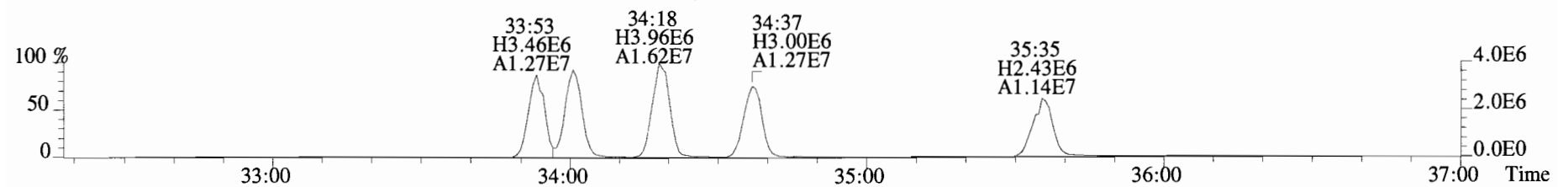
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



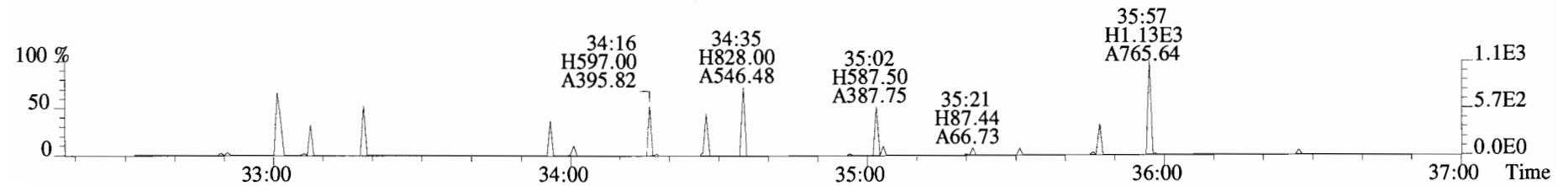
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



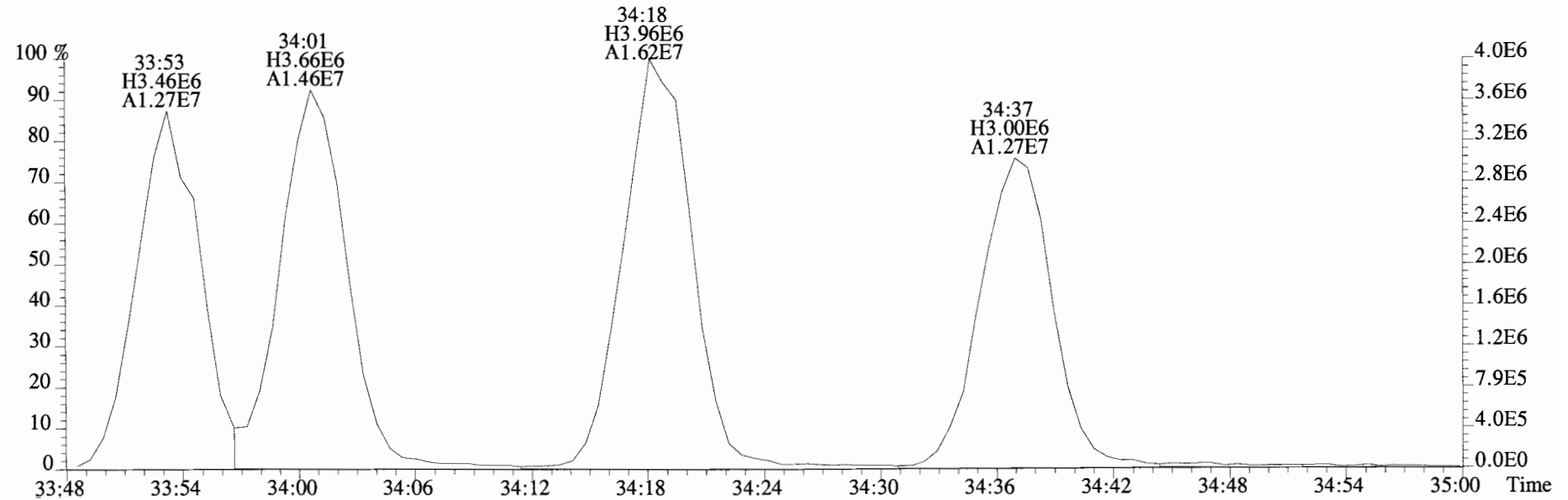
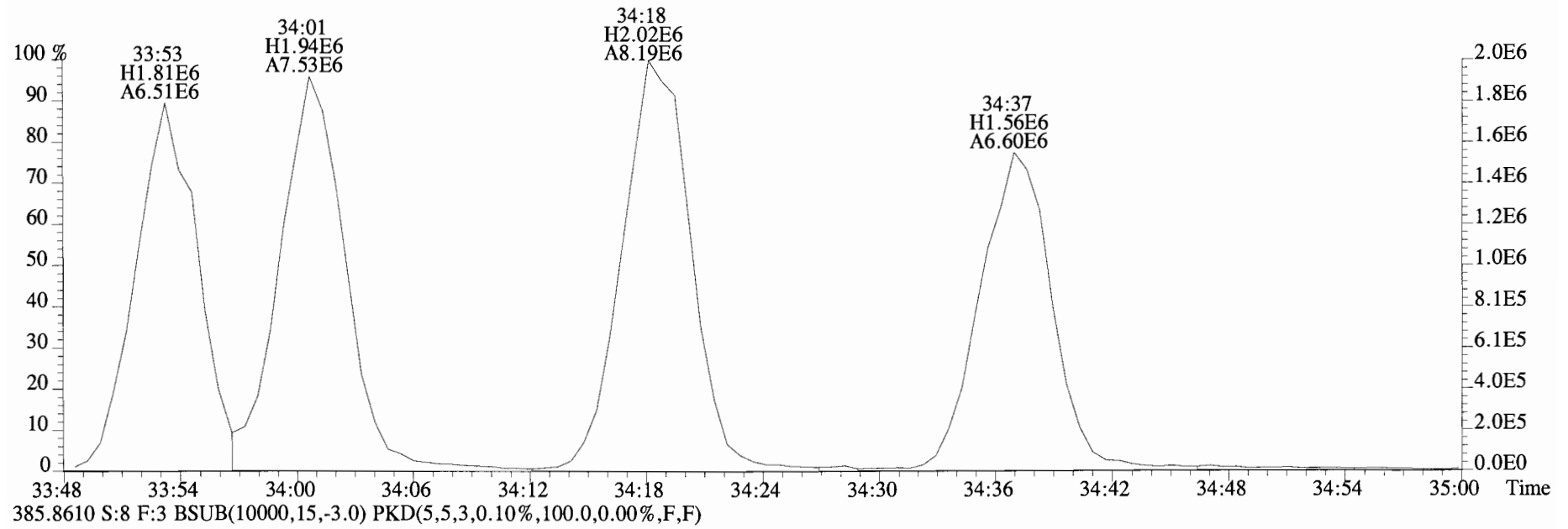
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

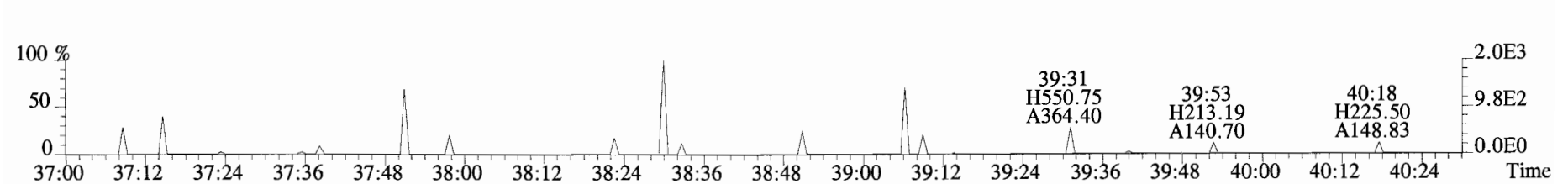
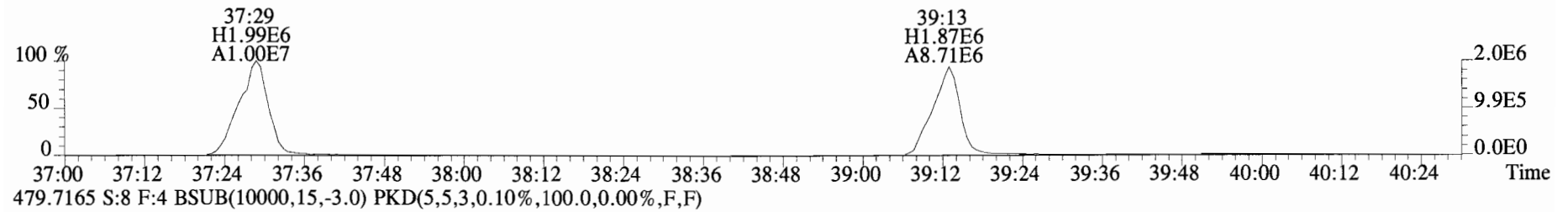
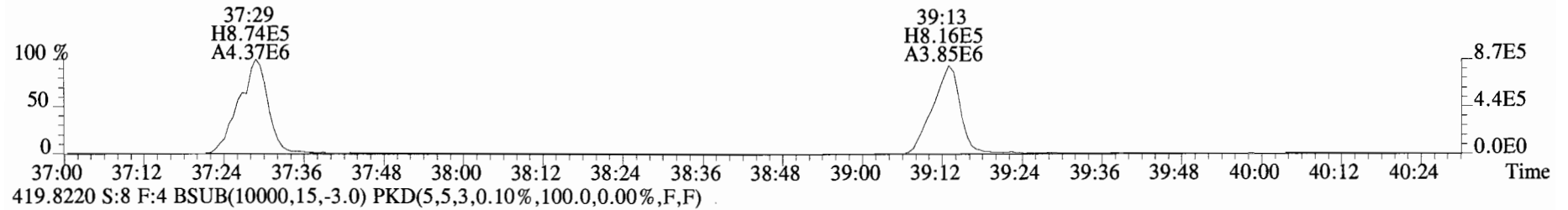
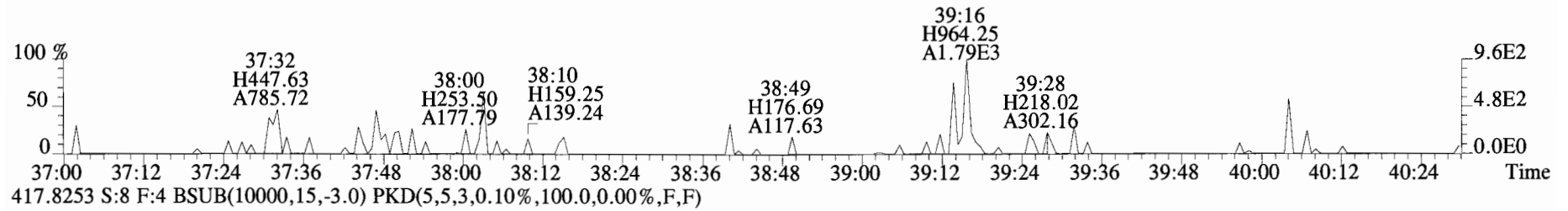
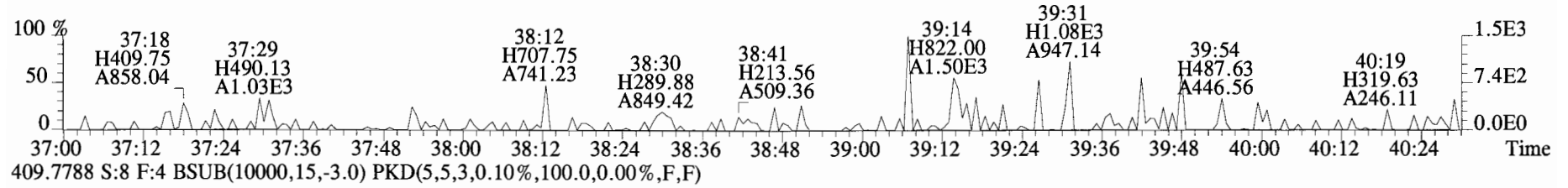


File:140909D1 #1-385 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

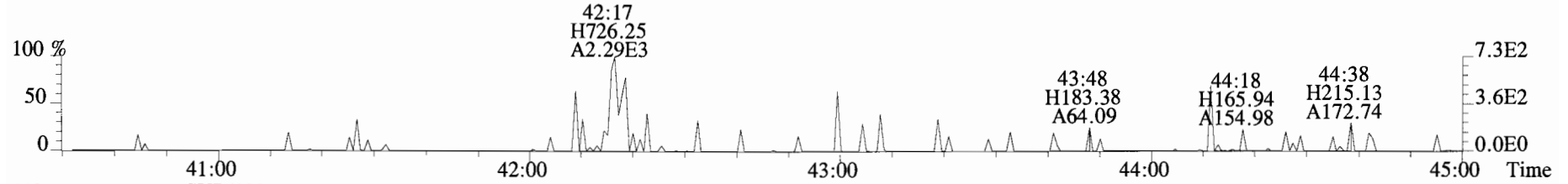




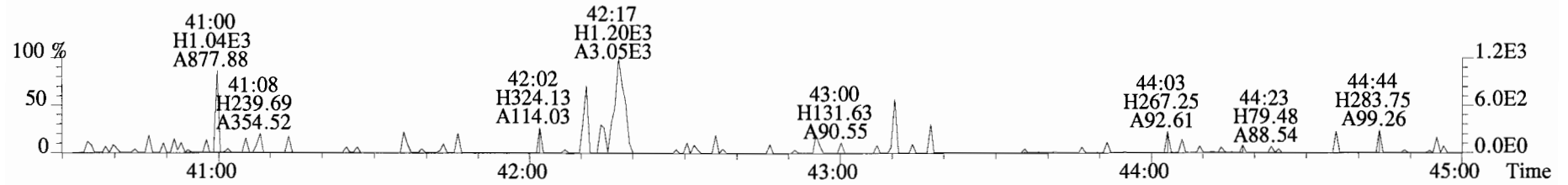
File:140909D1 #1-326 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



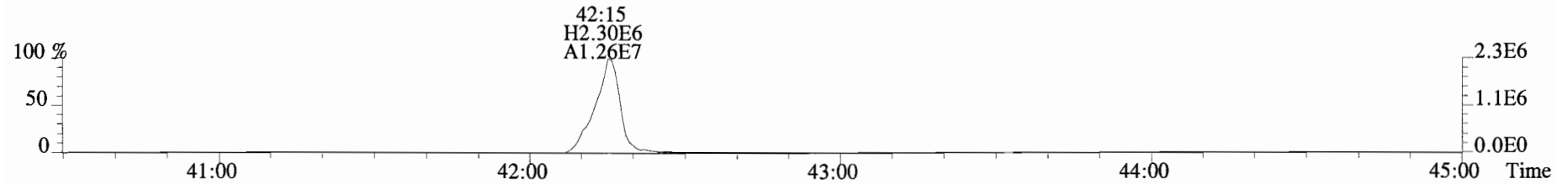
File:140909D1 #1-389 Acq: 9-SEP-2014 18:41:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410020-BLK1 Method Blank 1 Exp:OCDD\_DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



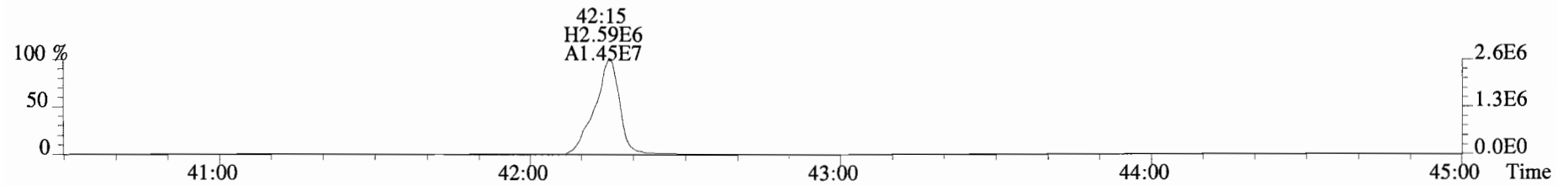
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



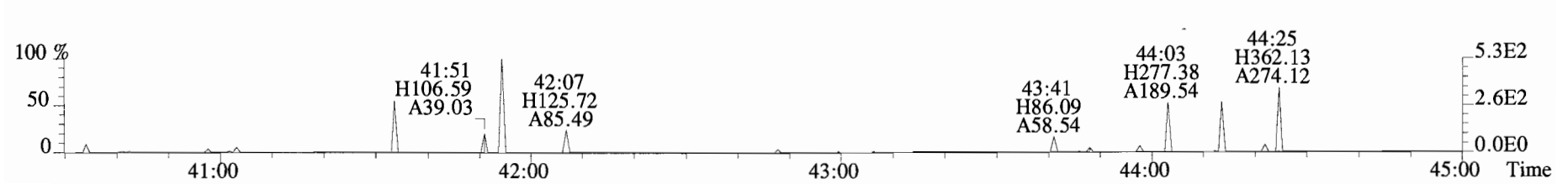
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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: B4I0020-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS      OPR Data Filename: 140909D1-5

Ext. Date: 9-18-14      Shift: Day      Analysis Date: 9-SEP-14      Time: 16:16:16

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	11.0	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	56.9	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	55.4	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	59.2	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	56.6	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	59.0	35.0 - 70.0
OCDD	100	112	78.0 - 144.0
2,3,7,8-TCDF	10	11.3	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	56.3	40.0 - 67.0
2,3,4,7,8-PeCDF	50	60.2	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	56.5	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	56.2	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	57.6	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	55.8	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	54.6	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	54.8	39.0 - 69.0
OCDF	100	110	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:   9/10/14

## FORM 8B

## PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory      Extraction Batch: B4I0020-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS      OPR Data Filename: 140909D1-5

Ext. Date: 9-18-14      Shift: Day      Analysis Date: 9-SEP-14      Time: 16:16:16

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	75.2	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	73.7	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	74.1	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	72.4	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	70.4	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	68.7	26.0 - 166.0
13C-OCDD	200	138	26.0 - 397.0
13C-2,3,7,8-TCDF	100	69.3	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	62.3	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	65.9	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	75.4	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	66.5	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	66.9	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	72.0	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	74.3	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	74.2	20.0 - 186.0
13C-OCDF	200	131	26.0 - 397.0
CLEANUP STANDARD			
37C1-2,3,7,8-TCDD	40	37.3	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: MSDate: 9/10/14

Client ID: OPR  
Lab ID: B4I0020-BS1

Filename: 140909D1 S:5 Acq: 9-SEP-14 16:16:16  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140909D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.09e+06	0.76 y	1.03	27:01	1.001	11.006	*		2.5	*	Total Tetra-Dioxins	11.3	11.3	*	*	
1,2,3,7,8-PeCDD	8.79e+06	0.59 y	0.84	31:28	1.000	56.879	*		2.5	*	Total Penta-Dioxins	57.2	57.2	*	*	
1,2,3,4,7,8-HxCDD	7.26e+06	1.25 y	1.05	34:49	1.000	55.396	*		2.5	*	Total Hexa-Dioxins	171	172	*	*	
1,2,3,6,7,8-HxCDD	7.57e+06	1.25 y	1.04	34:56	1.000	59.165	*		2.5	*	Total Hepta-Dioxins	59.5	60.4	*	*	
1,2,3,7,8,9-HxCDD	7.22e+06	1.24 y	0.90	35:14	1.001	56.610	*		2.5	*	Total Tetra-Furans	11.3	11.6	*	*	
1,2,3,4,6,7,8-HpCDD	6.52e+06	1.04 y	1.01	38:41	1.000	58.951	*		2.5	*	Total Penta-Furans	118.08	118.79	*	*	
OCDD	1.07e+07	0.89 y	1.04	42:02	1.000	111.63	*		2.5	*	Total Hexa-Furans	227	229	*	*	
											Total Hepta-Furans	110	112	*	*	

2,3,7,8-TCDF	2.39e+06	0.77 y	0.91	26:15	1.001	11.271	*		2.5	*
1,2,3,7,8-PeCDF	1.17e+07	1.65 y	0.97	30:18	1.000	56.307	*		2.5	*
2,3,4,7,8-PeCDF	1.30e+07	1.65 y	0.94	31:12	1.001	60.202	*		2.5	*
1,2,3,4,7,8-HxCDF	1.20e+07	1.28 y	1.32	33:55	1.000	56.527	*		2.5	*
1,2,3,6,7,8-HxCDF	1.22e+07	1.27 y	1.18	34:03	1.001	56.190	*		2.5	*
2,3,4,6,7,8-HxCDF	1.11e+07	1.27 y	1.23	34:39	1.001	57.559	*		2.5	*
1,2,3,7,8,9-HxCDF	9.12e+06	1.30 y	1.13	35:38	1.001	55.754	*		2.5	*
1,2,3,4,6,7,8-HpCDF	1.02e+07	1.07 y	1.57	37:30	1.000	54.590	*		2.5	*
1,2,3,4,7,8,9-HpCDF	8.92e+06	1.07 y	1.50	39:14	1.000	54.833	*		2.5	*
OCDF	1.30e+07	0.91 y	1.05	42:16	1.000	109.85	*		2.5	*

											Rec	Qual
IS	13C-2,3,7,8-TCDD	1.84e+07	0.77 y	1.06	26:60	1.020	75.175				75.2	
IS	13C-1,2,3,7,8-PeCDD	1.84e+07	0.62 y	1.08	31:27	1.189	73.663				73.7	
IS	13C-1,2,3,4,7,8-HxCDD	1.25e+07	1.33 y	0.74	34:48	1.014	74.116				74.1	
IS	13C-1,2,3,6,7,8-HxCDD	1.23e+07	1.28 y	0.75	34:55	1.017	72.445				72.4	
IS	13C-1,2,3,7,8,9-HxCDD	1.42e+07	1.24 y	0.89	35:13	1.026	70.410				70.4	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.10e+07	1.06 y	0.70	38:40	1.126	68.694				68.7	
IS	13C-OCDD	1.84e+07	0.89 y	0.59	42:02	1.224	137.52				68.8	
IS	13C-2,3,7,8-TCDF	2.32e+07	0.76 y	0.97	26:14	0.992	69.297				69.3	
IS	13C-1,2,3,7,8-PeCDF	2.14e+07	1.56 y	0.99	30:17	1.145	62.279				62.3	
IS	13C-2,3,4,7,8-PeCDF	2.30e+07	1.56 y	1.01	31:10	1.178	65.872				65.9	
IS	13C-1,2,3,4,7,8-HxCDF	1.61e+07	0.51 y	0.94	33:54	0.988	75.435				75.4	
IS	13C-1,2,3,6,7,8-HxCDF	1.85e+07	0.51 y	1.23	34:02	0.991	66.491				66.5	
IS	13C-2,3,4,6,7,8-HxCDF	1.57e+07	0.52 y	1.03	34:38	1.009	66.856				66.9	
IS	13C-1,2,3,7,8,9-HxCDF	1.45e+07	0.52 y	0.89	35:36	1.037	72.037				72.0	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.19e+07	0.43 y	0.71	37:29	1.092	74.303				74.3	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.08e+07	0.45 y	0.64	39:13	1.143	74.227				74.2	
IS	13C-OCDF	2.25e+07	0.88 y	0.76	42:15	1.231	130.68				65.3	

C/Up	37C1-2,3,7,8-TCDD	8.97e+06		1.04	27:01	1.021	37.342				93.4	
RS/RT	13C-1,2,3,4-TCDD	2.30e+07	0.79 y	1.00	26:27	*	100.00					
RS	13C-1,2,3,4-TCDF	3.46e+07	0.74 y	1.00	25:03	*	100.00					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.27e+07	0.51 y	1.00	34:20	*	100.00					

Integrations  
by  
Analyst: M  
Date: 9/10/14  
Reviewed  
by  
Analyst: [Signature]  
Date: 9/10/14

Client ID: OPR  
 Lab ID: B4I0020-BS1

Filename: 140909D1 S:5 Acq: 9-SEP-14 16:16:16  
 GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140909D1-1  
 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.09e+06	0.76 y	1.03	27:01	1.001	220.13		*	2.5	*	Total Tetra-Dioxins	226	227	*	*	
1,2,3,7,8-PeCDD	8.79e+06	0.59 y	0.84	31:28	1.000	1137.6		*	2.5	*	Total Penta-Dioxins	1140	1140	*	*	
1,2,3,4,7,8-HxCDD	7.26e+06	1.25 y	1.05	34:49	1.000	1107.9		*	2.5	*	Total Hexa-Dioxins	3430	3440	*	*	
1,2,3,6,7,8-HxCDD	7.57e+06	1.25 y	1.04	34:56	1.000	1183.3		*	2.5	*	Total Hepta-Dioxins	1190	1210	*	*	
1,2,3,7,8,9-HxCDD	7.22e+06	1.24 y	0.90	35:14	1.001	1132.2		*	2.5	*	Total Tetra-Furans	226	231	*	*	
1,2,3,4,6,7,8-HpCDD	6.52e+06	1.04 y	1.01	38:41	1.000	1179.0		*	2.5	*	Total Penta-Furans	2361.5	2375.8	*	*	
OCDD	1.07e+07	0.89 y	1.04	42:02	1.000	2232.7		*	2.5	*	Total Hexa-Furans	4540	4580	*	*	
											Total Hepta-Furans	2190	2240	*	*	

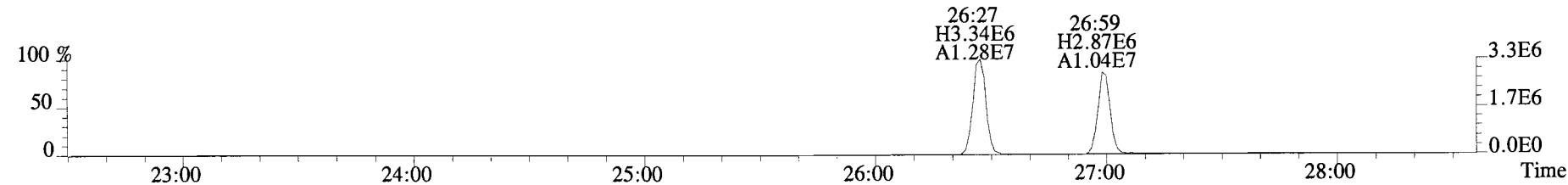
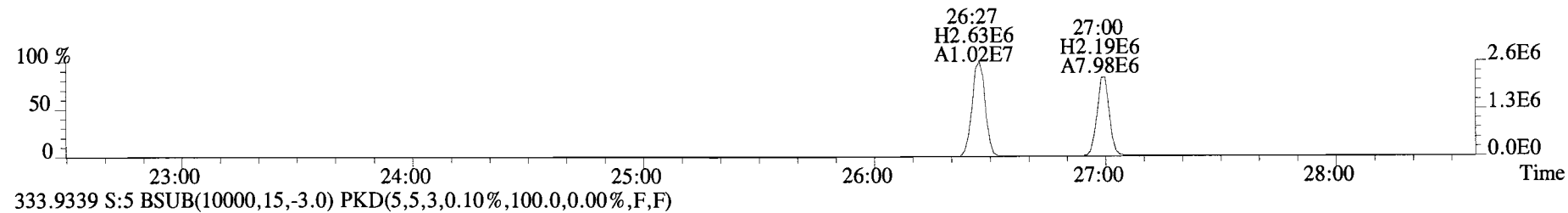
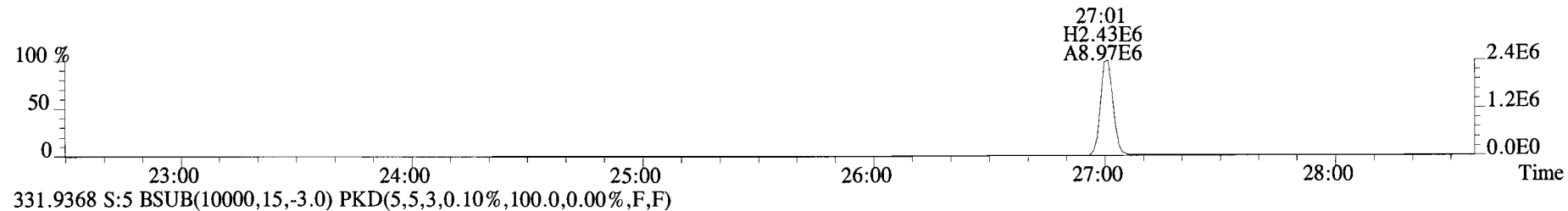
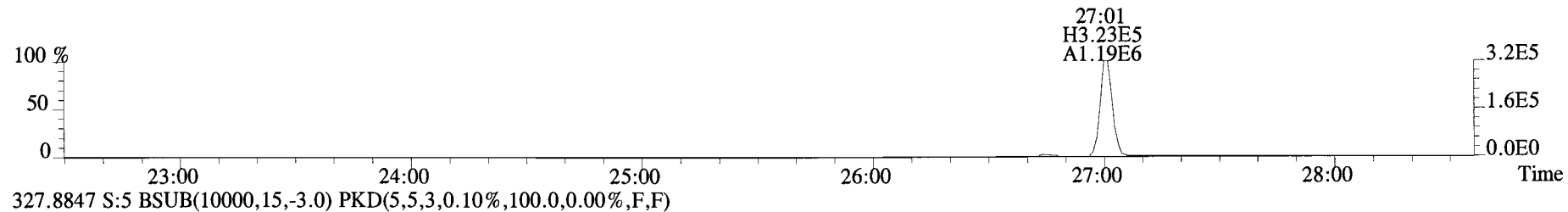
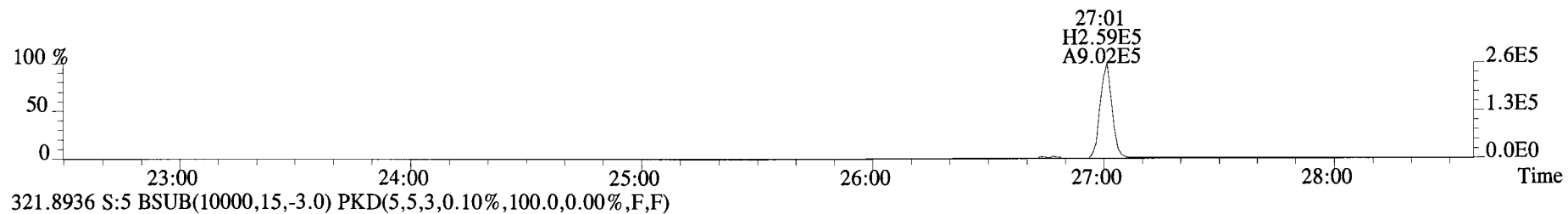
2,3,7,8-TCDF	2.39e+06	0.77 y	0.91	26:15	1.001	225.42		*	2.5	*
1,2,3,7,8-PeCDF	1.17e+07	1.65 y	0.97	30:18	1.000	1126.1		*	2.5	*
2,3,4,7,8-PeCDF	1.30e+07	1.65 y	0.94	31:12	1.001	1204.0		*	2.5	*
1,2,3,4,7,8-HxCDF	1.20e+07	1.28 y	1.32	33:55	1.000	1130.5		*	2.5	*
1,2,3,6,7,8-HxCDF	1.22e+07	1.27 y	1.18	34:03	1.001	1123.8		*	2.5	*
2,3,4,6,7,8-HxCDF	1.11e+07	1.27 y	1.23	34:39	1.001	1151.2		*	2.5	*
1,2,3,7,8,9-HxCDF	9.12e+06	1.30 y	1.13	35:38	1.001	1115.1		*	2.5	*
1,2,3,4,6,7,8-HpCDF	1.02e+07	1.07 y	1.57	37:30	1.000	1091.8		*	2.5	*
1,2,3,4,7,8,9-HpCDF	8.92e+06	1.07 y	1.50	39:14	1.000	1096.7		*	2.5	*
OCDF	1.30e+07	0.91 y	1.05	42:16	1.000	2197.0		*	2.5	*

											Rec	Qual
IS	13C-2,3,7,8-TCDD	1.84e+07	0.77 y	1.06	26:60	1.020	1503.5				75.2	
IS	13C-1,2,3,7,8-PeCDD	1.84e+07	0.62 y	1.08	31:27	1.189	1473.3				73.7	
IS	13C-1,2,3,4,7,8-HxCDD	1.25e+07	1.33 y	0.74	34:48	1.014	1482.3				74.1	
IS	13C-1,2,3,6,7,8-HxCDD	1.23e+07	1.28 y	0.75	34:55	1.017	1448.9				72.4	
IS	13C-1,2,3,7,8,9-HxCDD	1.42e+07	1.24 y	0.89	35:13	1.026	1408.2				70.4	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.10e+07	1.06 y	0.70	38:40	1.126	1373.9				68.7	
IS	13C-OCDD	1.84e+07	0.89 y	0.59	42:02	1.224	2750.4				68.8	
IS	13C-2,3,7,8-TCDF	2.32e+07	0.76 y	0.97	26:14	0.992	1385.9				69.3	
IS	13C-1,2,3,7,8-PeCDF	2.14e+07	1.56 y	0.99	30:17	1.145	1245.6				62.3	
IS	13C-2,3,4,7,8-PeCDF	2.30e+07	1.56 y	1.01	31:10	1.178	1317.4				65.9	
IS	13C-1,2,3,4,7,8-HxCDF	1.61e+07	0.51 y	0.94	33:54	0.988	1508.7				75.4	
IS	13C-1,2,3,6,7,8-HxCDF	1.85e+07	0.51 y	1.23	34:02	0.991	1329.8				66.5	
IS	13C-2,3,4,6,7,8-HxCDF	1.57e+07	0.52 y	1.03	34:38	1.009	1337.1				66.9	
IS	13C-1,2,3,7,8,9-HxCDF	1.45e+07	0.52 y	0.89	35:36	1.037	1440.7				72.0	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.19e+07	0.43 y	0.71	37:29	1.092	1486.1				74.3	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.08e+07	0.45 y	0.64	39:13	1.143	1484.5				74.2	
IS	13C-OCDF	2.25e+07	0.88 y	0.76	42:15	1.231	2613.6				65.3	

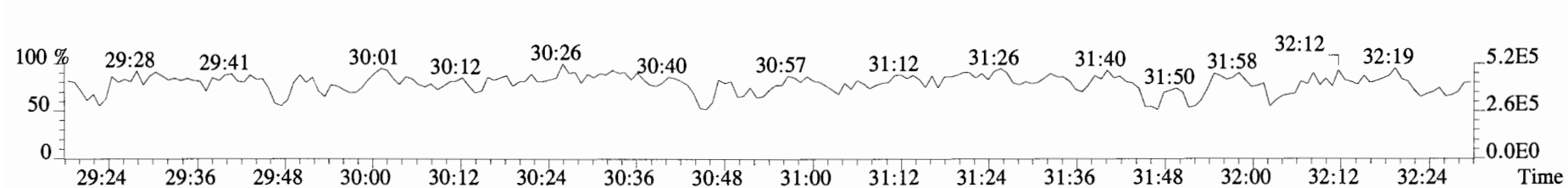
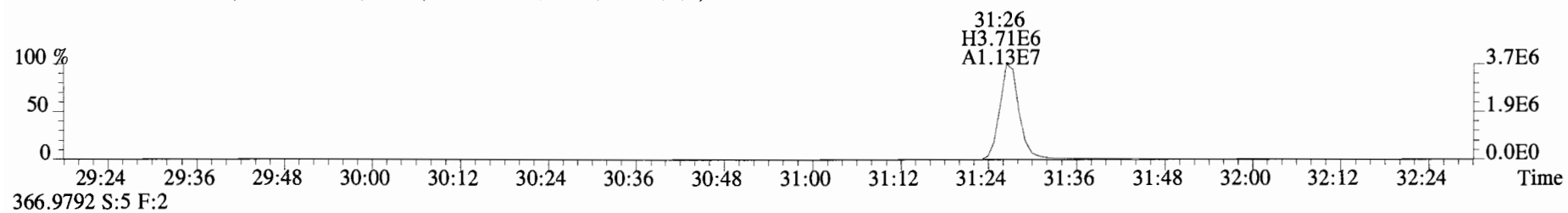
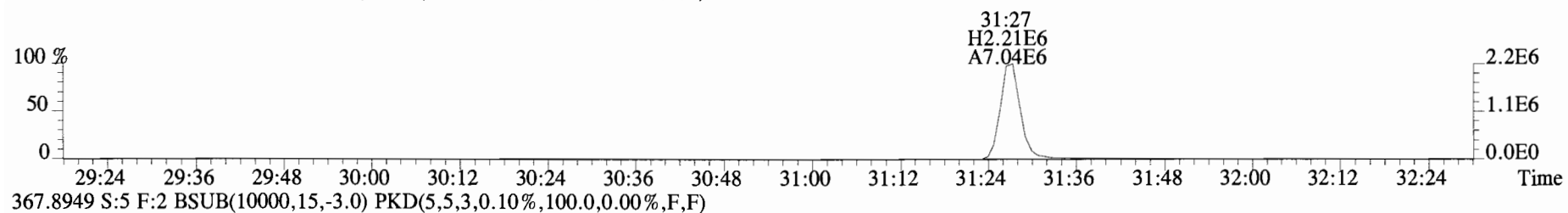
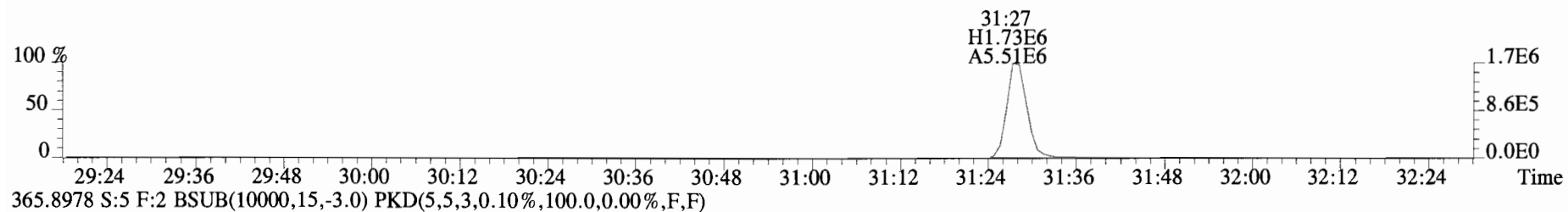
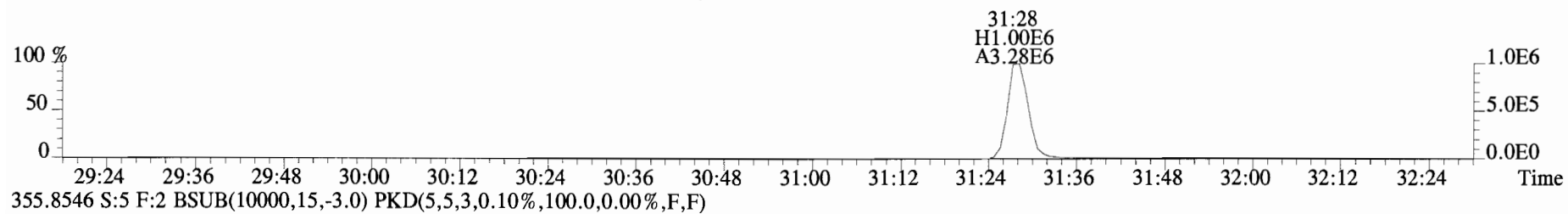
C/Up	37Cl-2,3,7,8-TCDD	8.97e+06		1.04	27:01	1.021	746.84				93.4	
RS/RT	13C-1,2,3,4-TCDD	2.30e+07	0.79 y	1.00	26:27	*	2000.0					
RS	13C-1,2,3,4-TCDF	3.46e+07	0.74 y	1.00	25:03	*	2000.0					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.27e+07	0.51 y	1.00	34:20	*	2000.0					

Integrations  
 by  
 Analyst: ms  
 Date: 9/10/14  
 Reviewed  
 by  
 Analyst: [Signature]  
 Date: 9/10/14

File:140909D1 #1-551 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BS1 OPR 1 Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

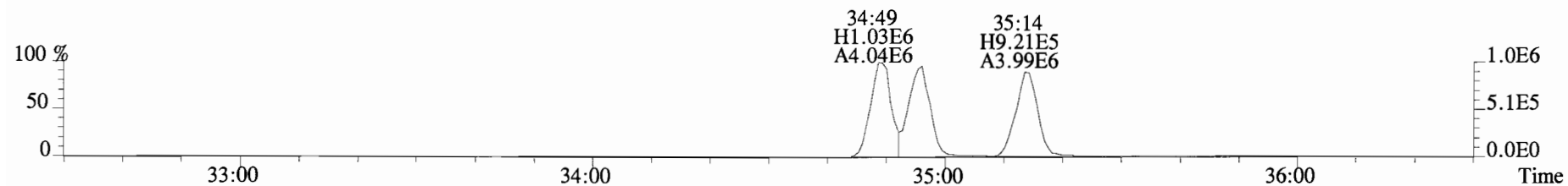


File:140909D1 #1-257 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BS1 OPR 1 Exp: OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

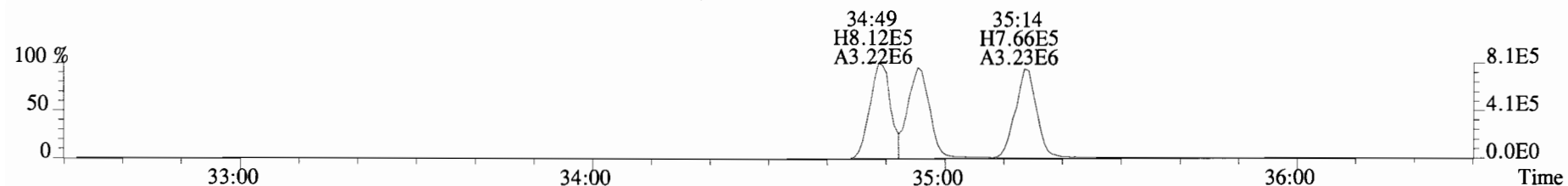




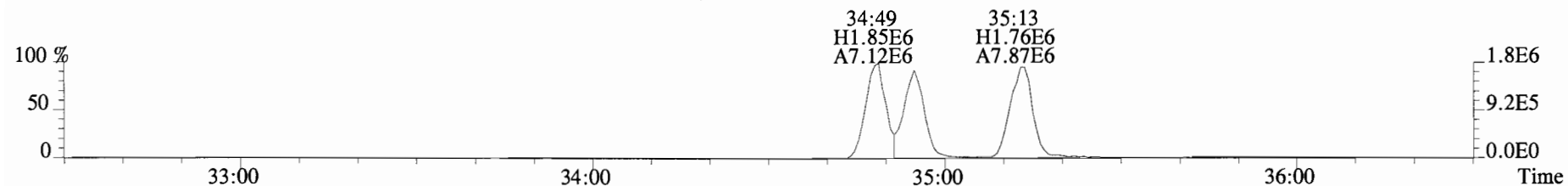
File:140909D1 #1-385 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BS1 OPR 1 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



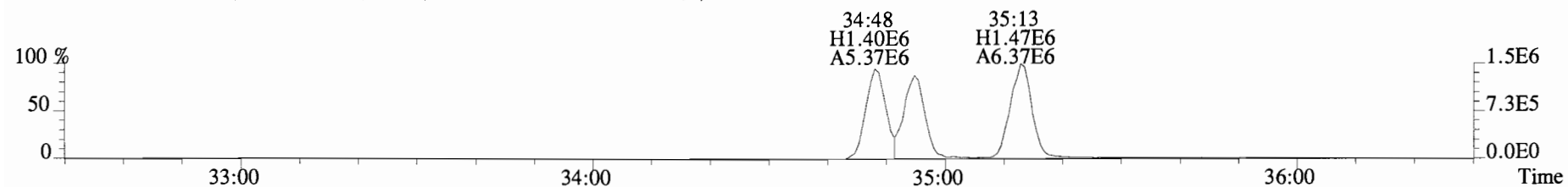
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



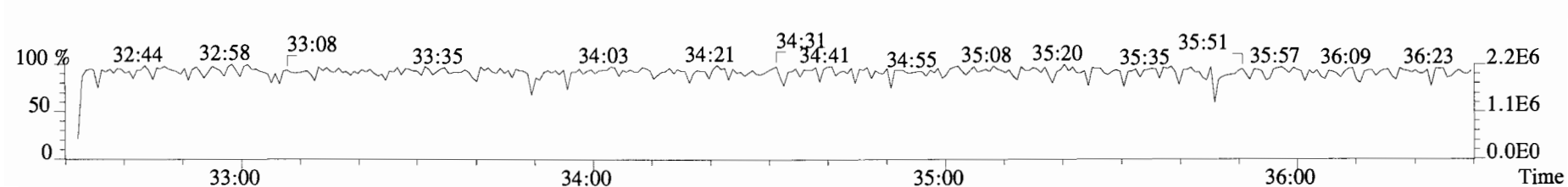
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



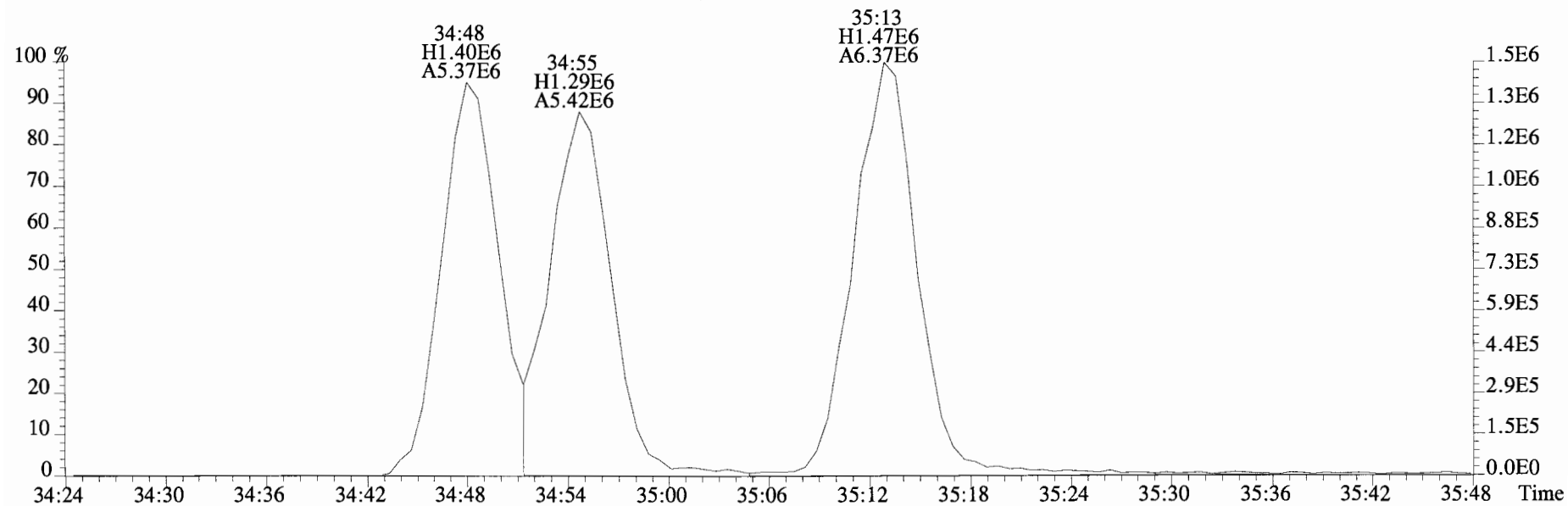
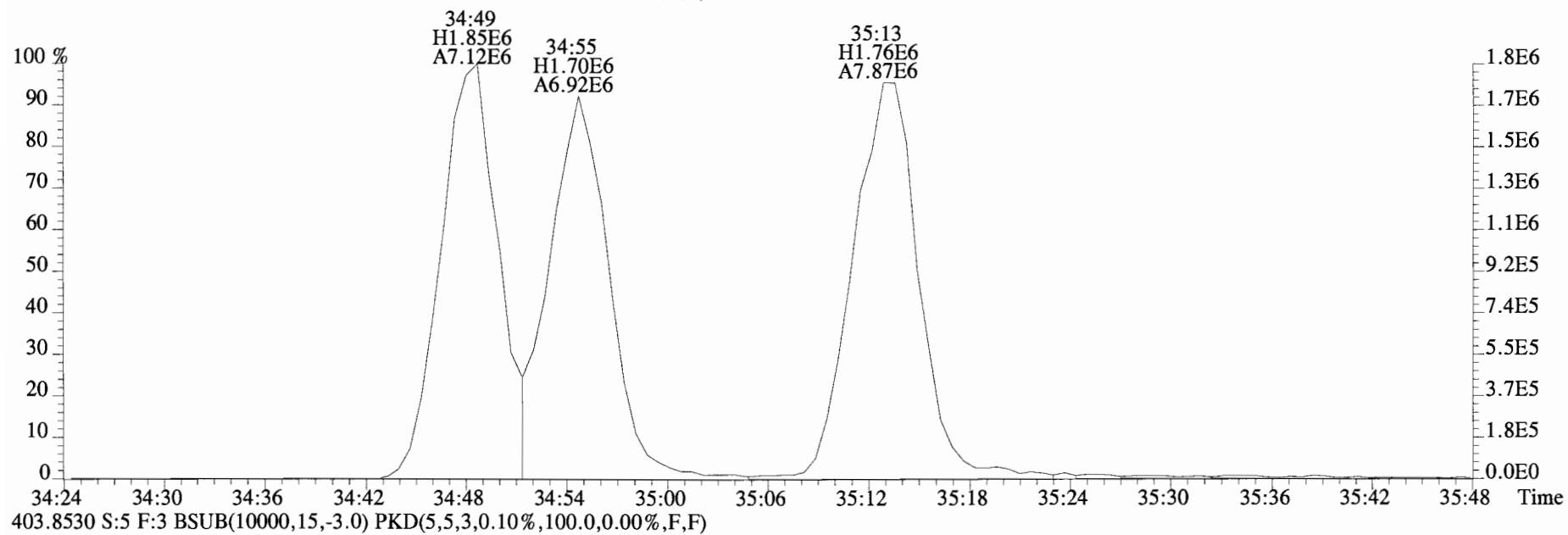
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



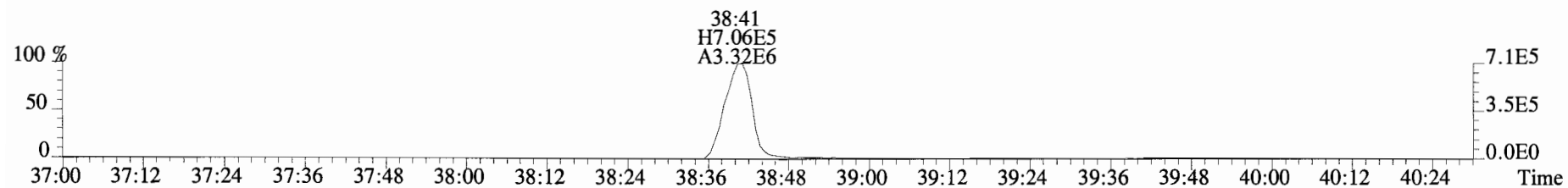
380.9760 S:5 F:3



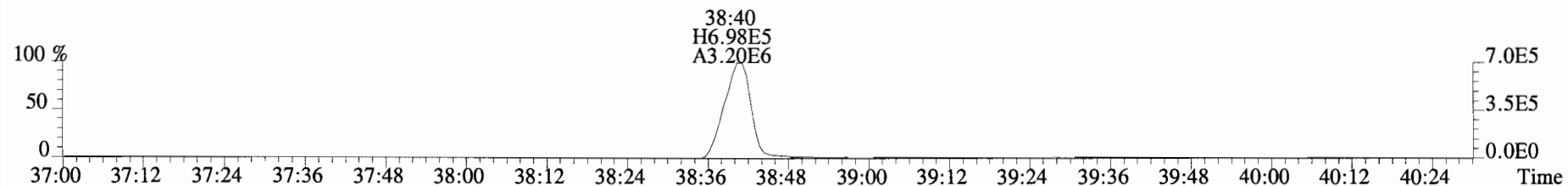
File:140909D1 #1-385 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BS1 OPR 1 Exp: OCDD\_DB5  
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



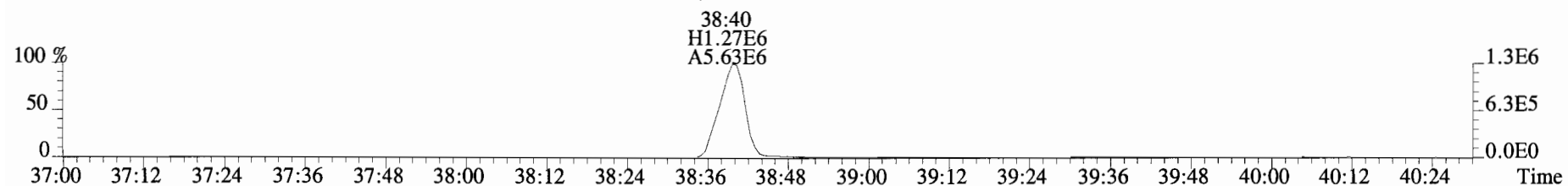
File:140909D1 #1-326 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BS1 OPR 1 Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



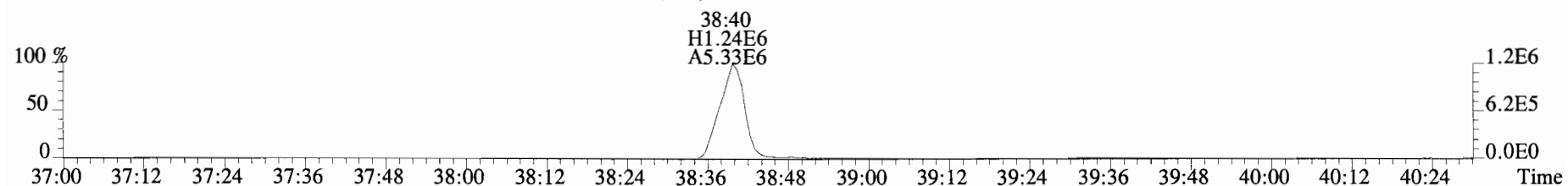
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



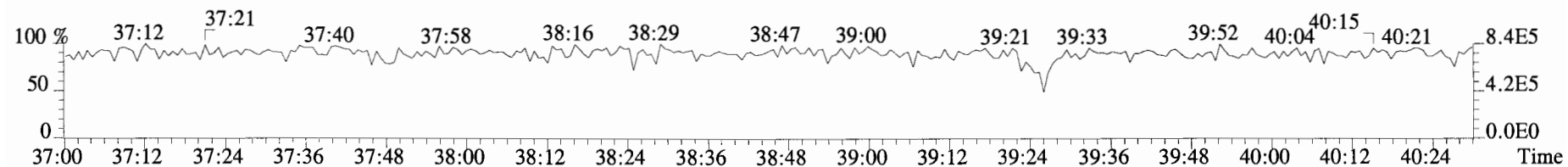
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



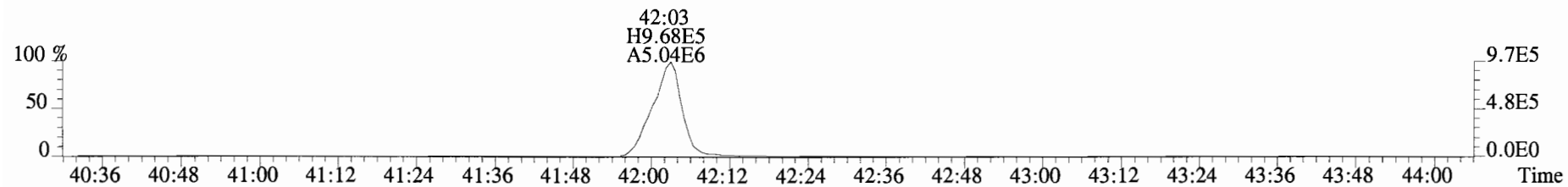
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



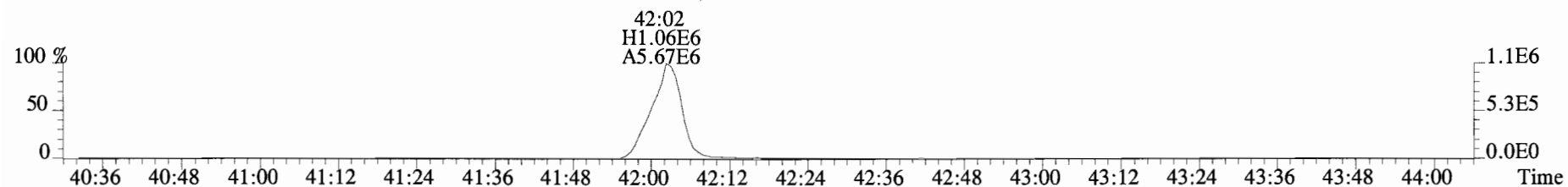
430.9728 S:5 F:4



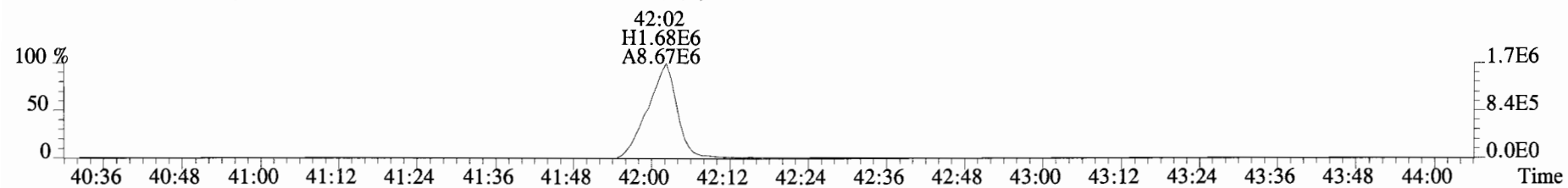
File:140909D1 #1-388 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BS1 OPR 1 Exp: OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



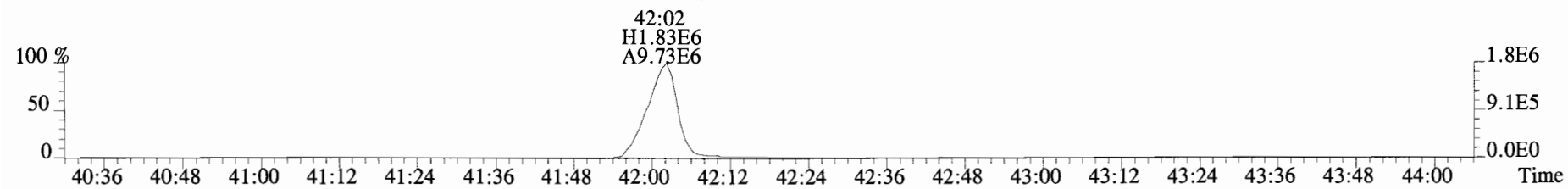
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



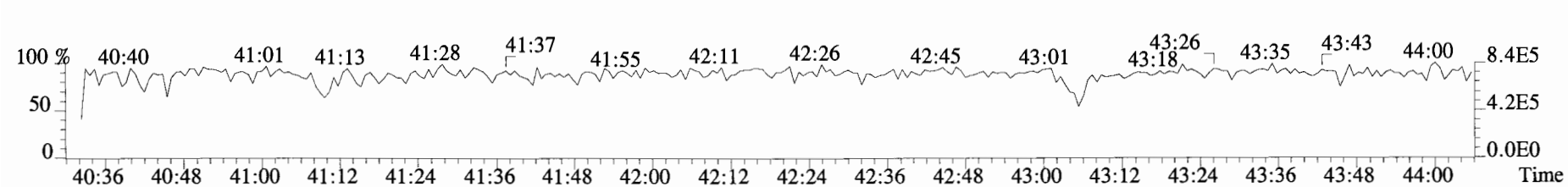
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



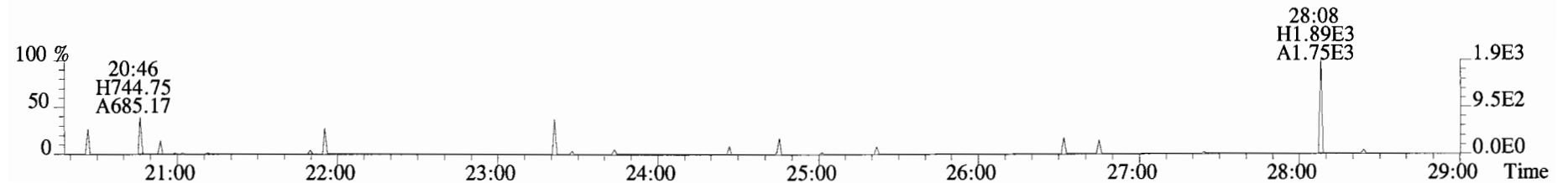
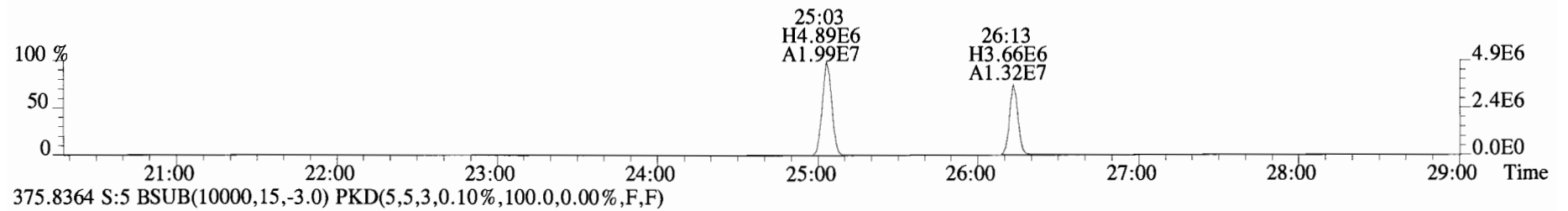
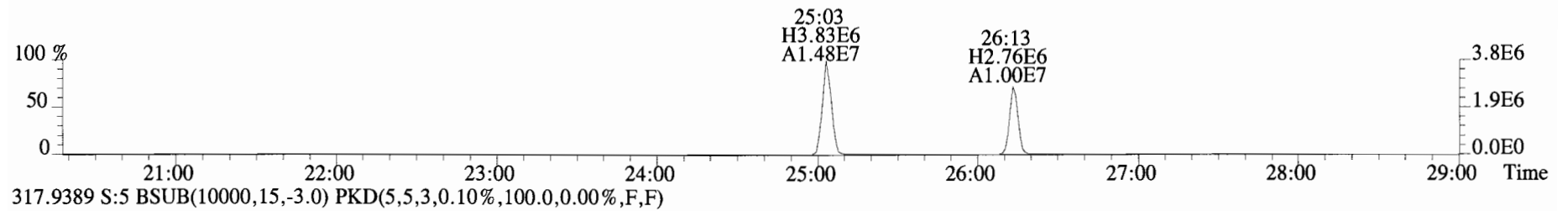
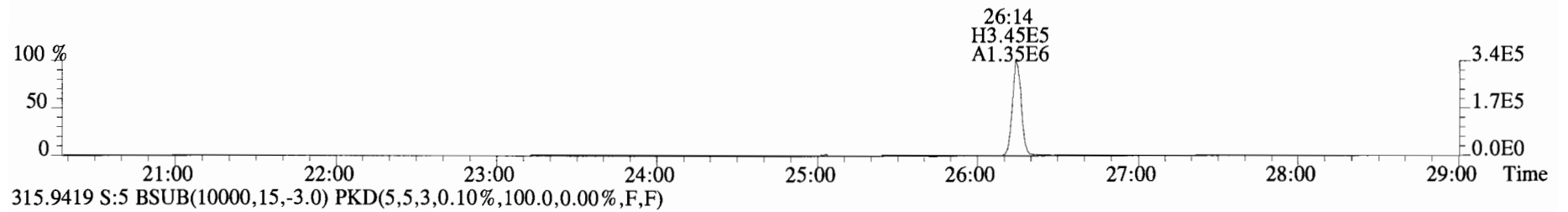
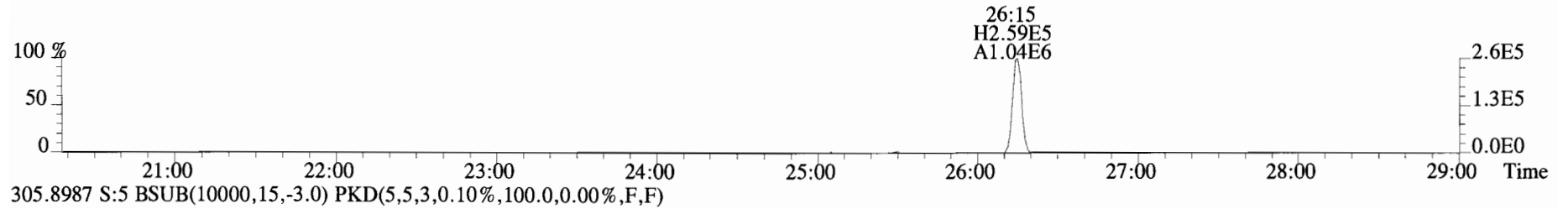
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



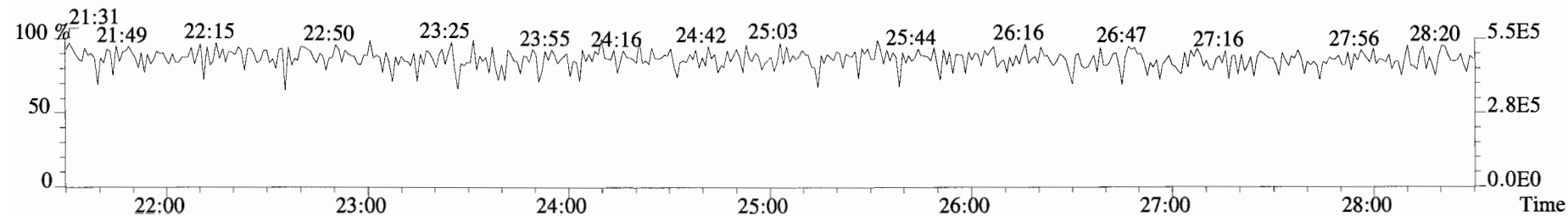
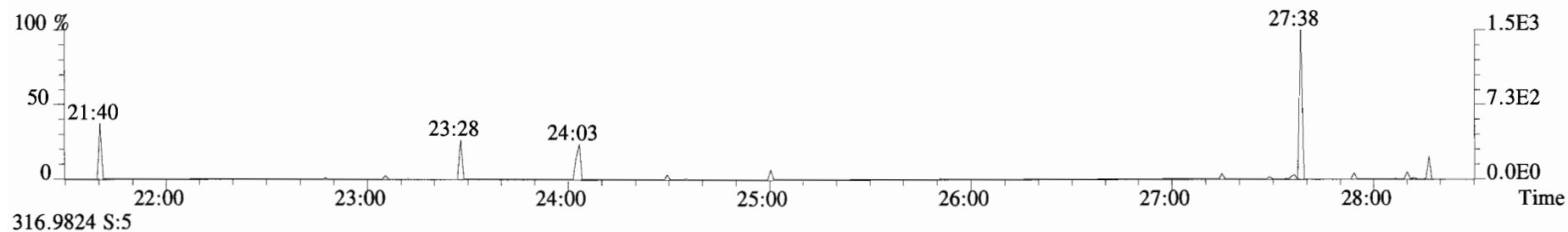
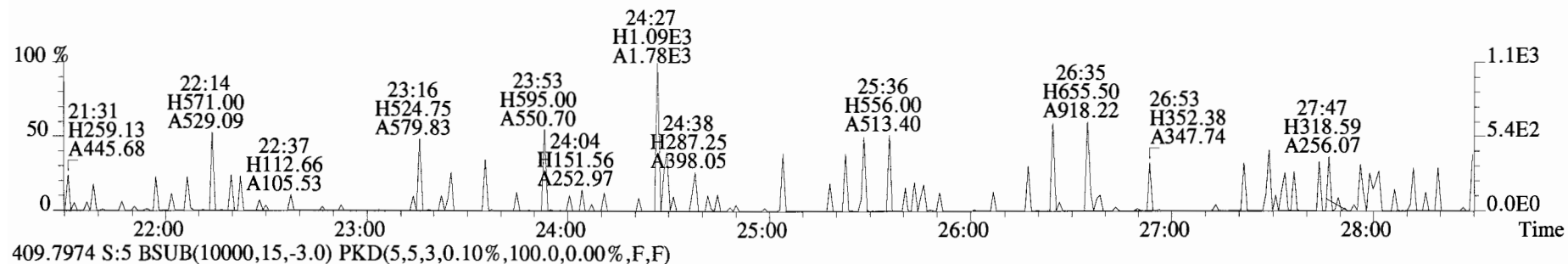
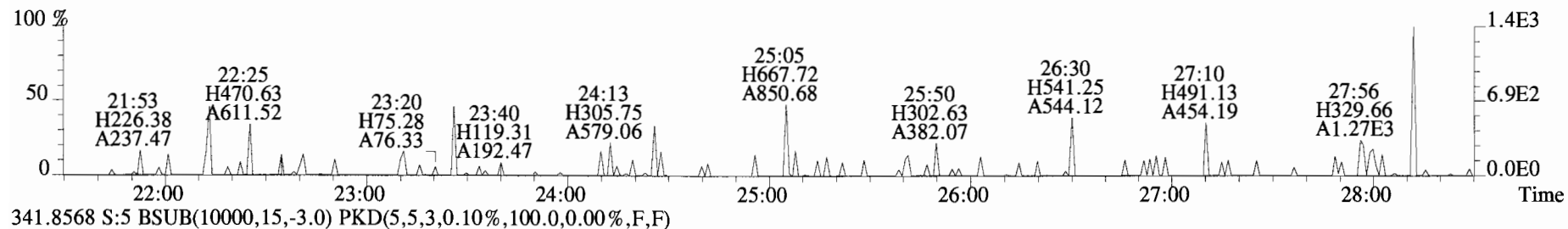
454.9728 S:5 F:5



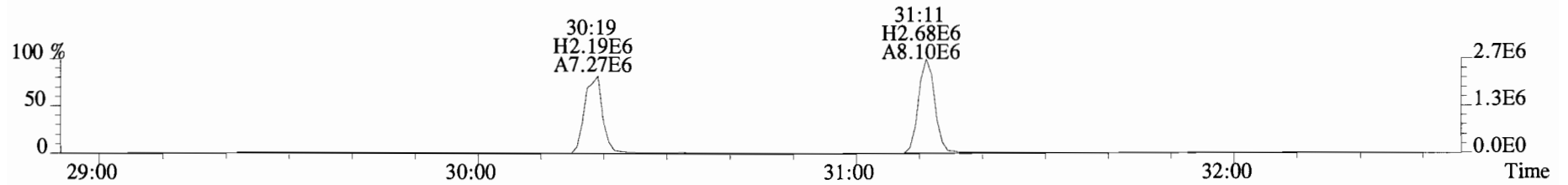
File:140909D1 #1-551 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:B4I0020-BS1 OPR 1 Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



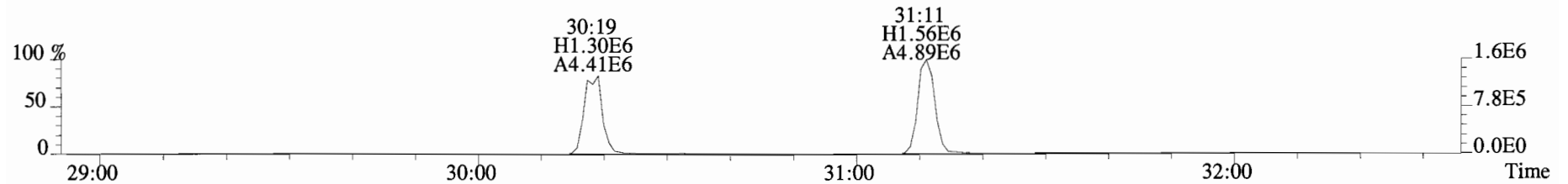
File:140909D1 #1-551 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BS1 OPR 1 Exp: OCDD\_DB5  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



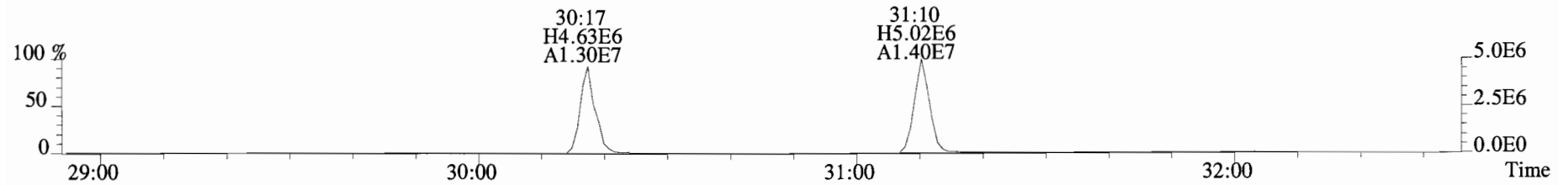
File:140909D1 #1-257 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BS1 OPR 1 Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



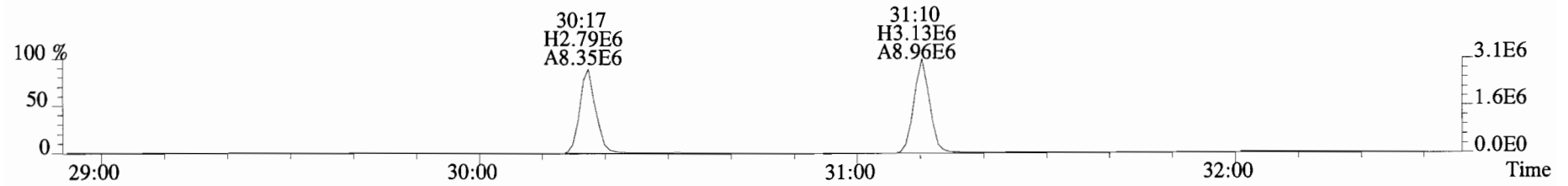
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



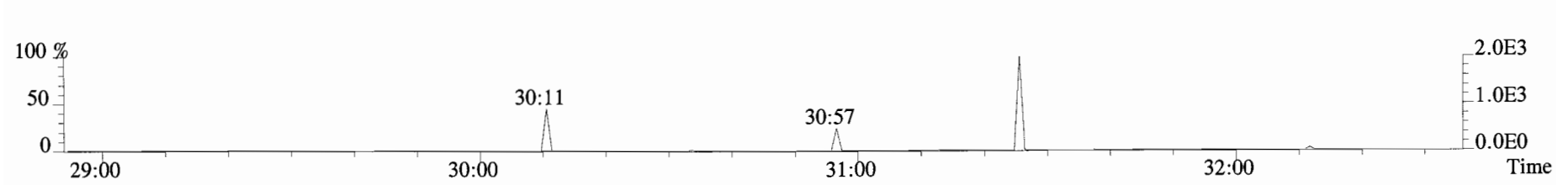
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



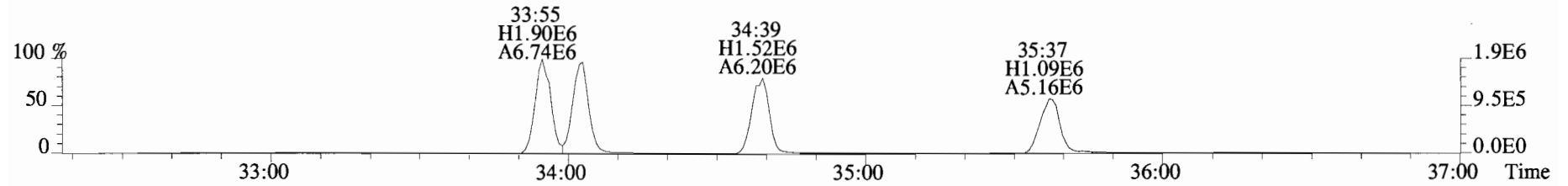
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



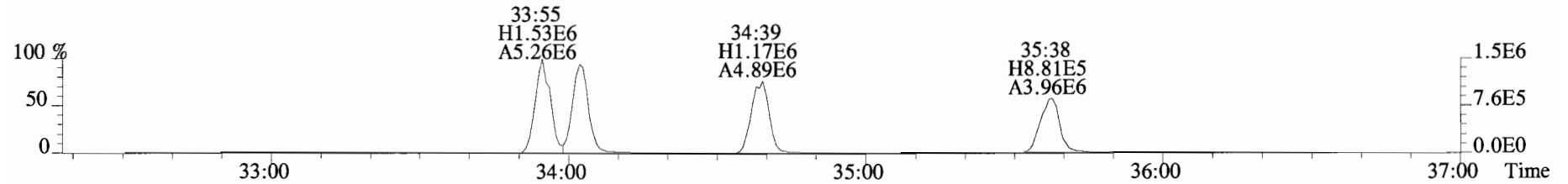
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



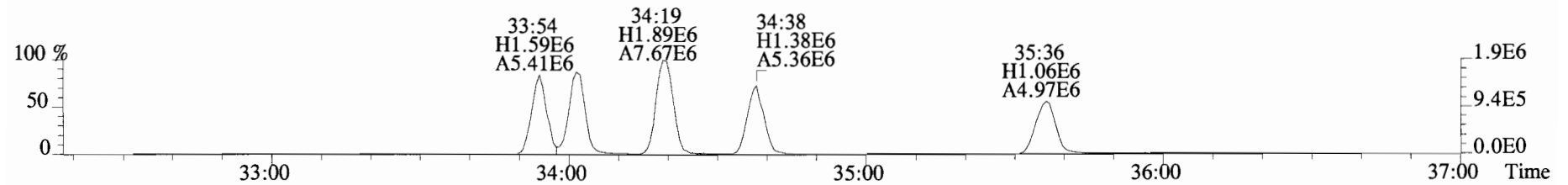
File:140909D1 #1-385 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text: B4I0020-BS1 OPR 1 Exp: OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



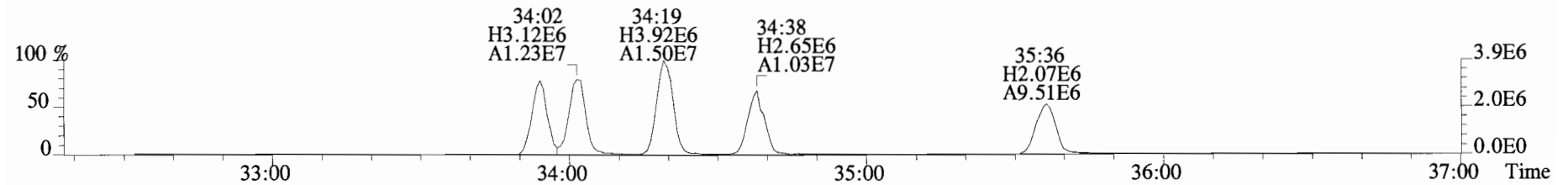
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



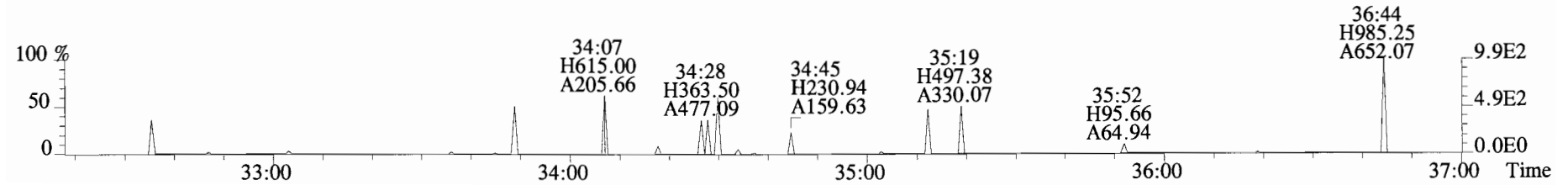
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

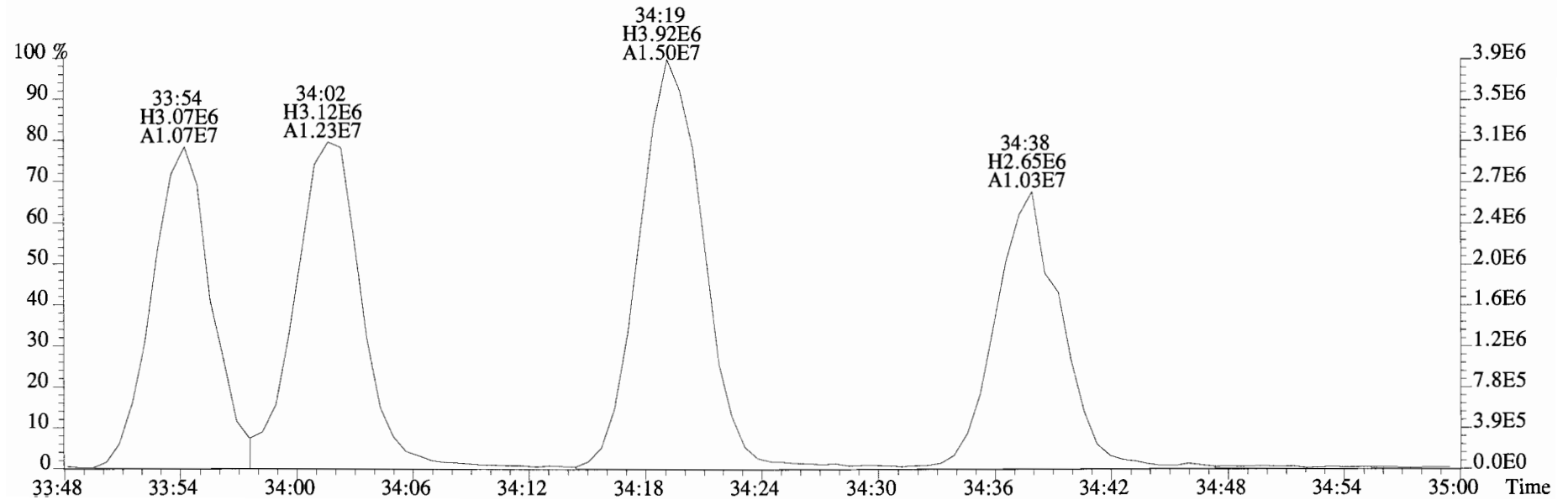
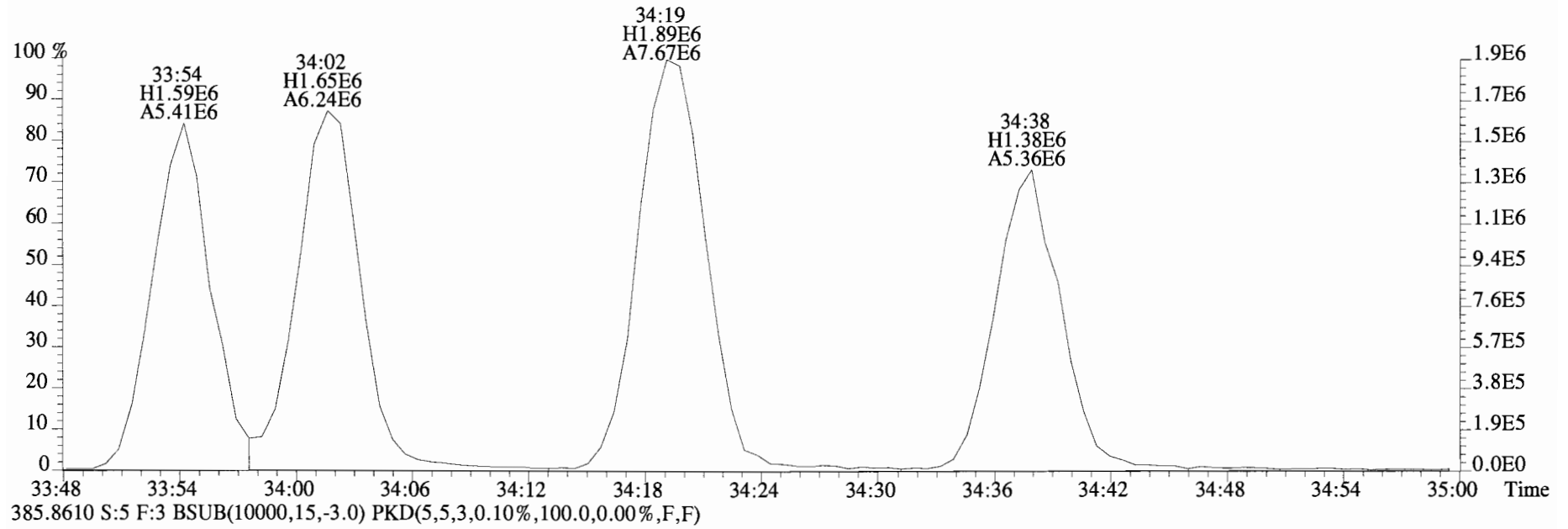


445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

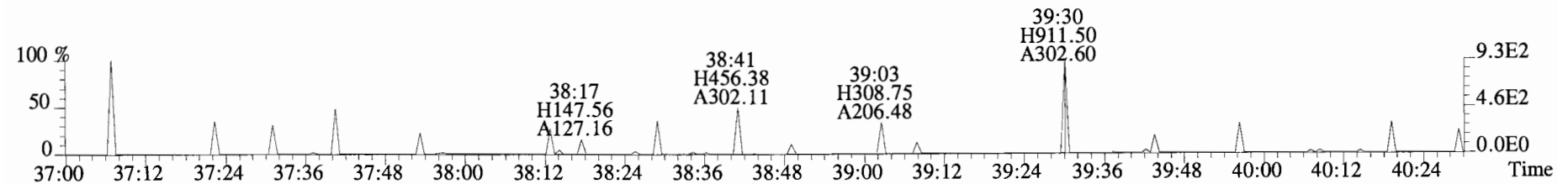
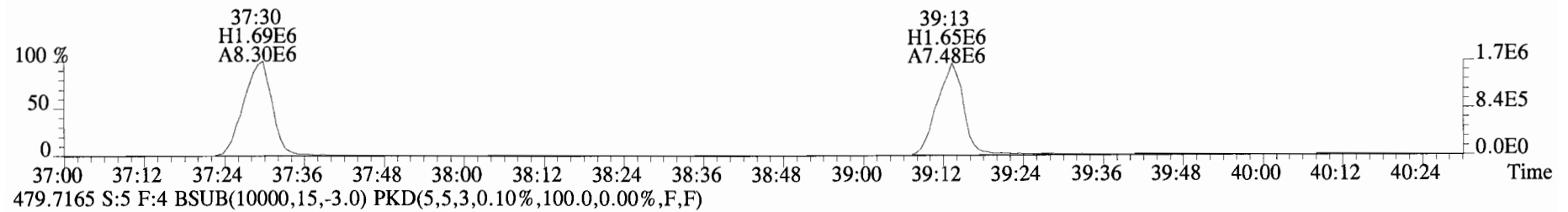
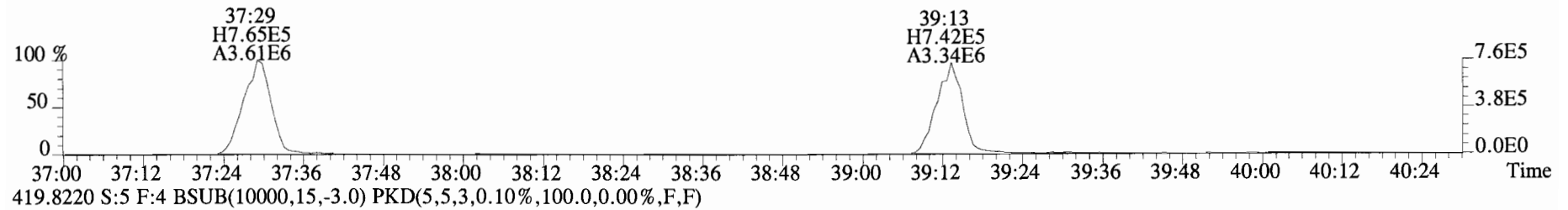
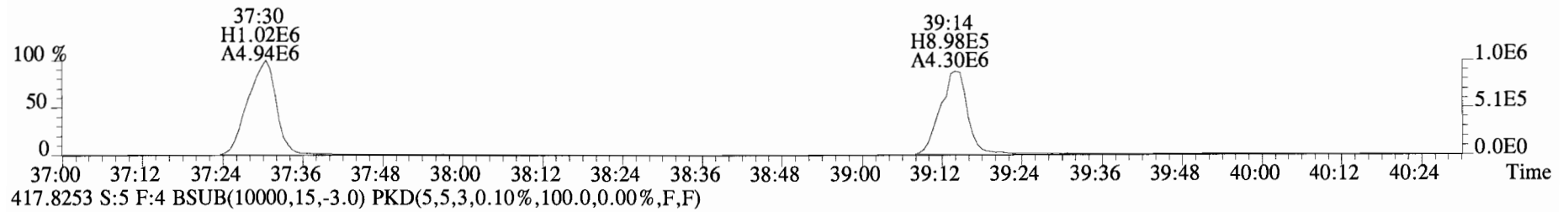
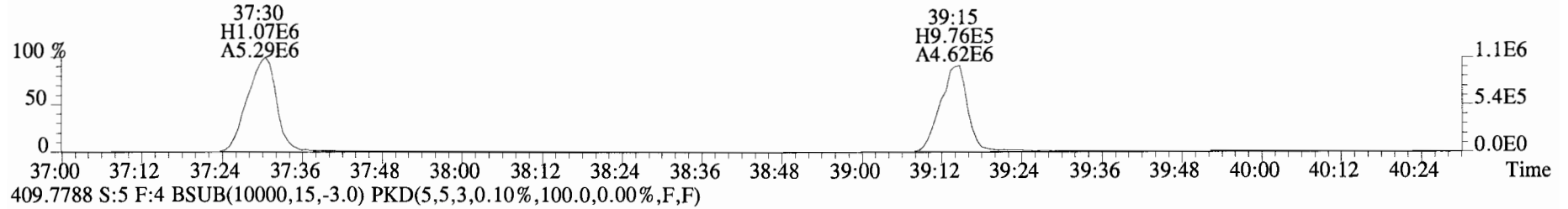




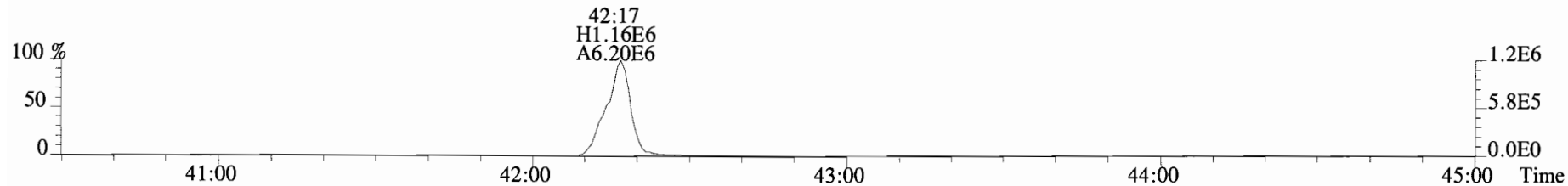
File:140909D1 #1-385 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B410020-BS1 OPR 1 Exp:OCDD\_DB5  
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



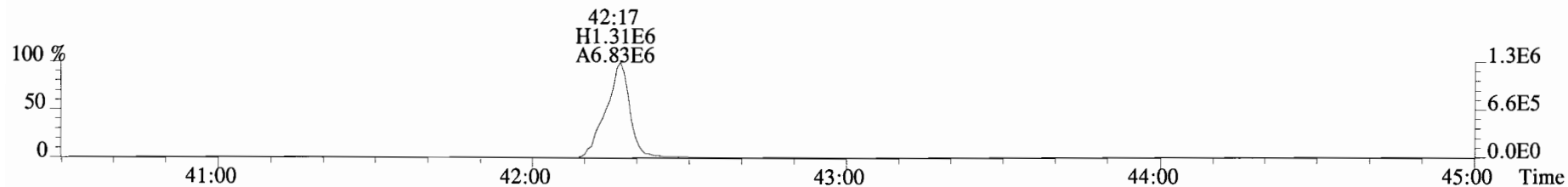
File:140909D1 #1-326 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0020-BS1 OPR 1 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



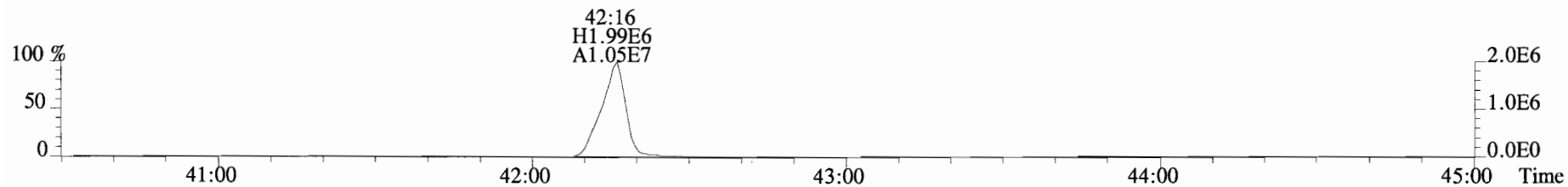
File:140909D1 #1-388 Acq: 9-SEP-2014 16:16:16 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:B410020-BS1 OPR 1 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



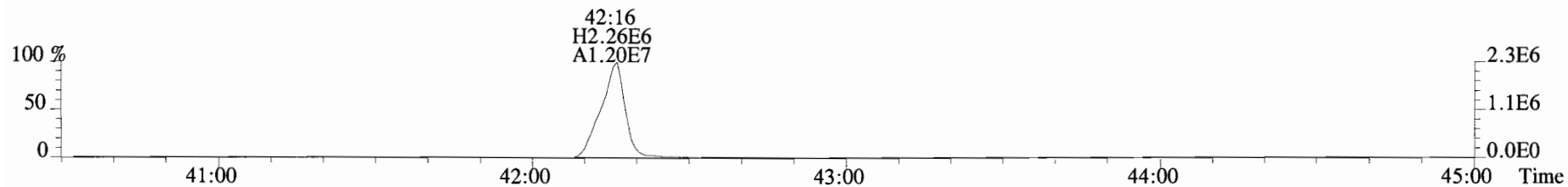
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



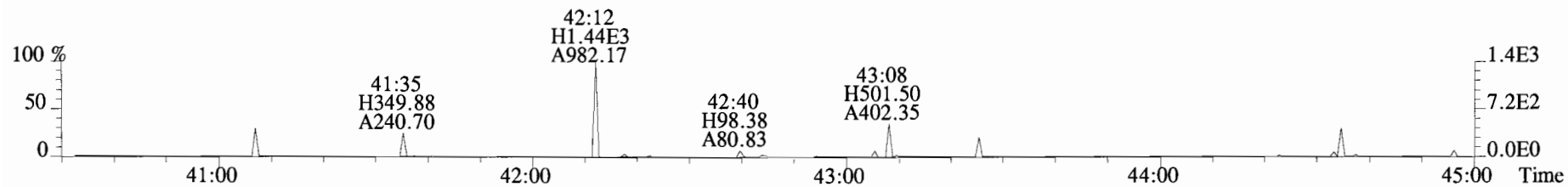
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.03	Not F <sub>7</sub>	*	*		499	2.5	0.718	Total Tetra-Dioxins	*	*		499	0.718
1,2,3,7,8-PeCDD	*	* n	0.84	Not F <sub>7</sub>	*	*		469	2.5	0.677	Total Penta-Dioxins	*	*		469	0.677
1,2,3,4,7,8-HxCDD	*	* n	1.05	Not F <sub>7</sub>	*	*		447	2.5	1.46	Total Hexa-Dioxins	*	*		714	2.37
1,2,3,6,7,8-HxCDD	*	* n	1.04	Not F <sub>7</sub>	*	*		447	2.5	1.49	Total Hepta-Dioxins	*	*		1390	5.04
1,2,3,7,8,9-HxCDD	*	* n	0.90	Not F <sub>7</sub>	*	*		447	2.5	1.50	Total Tetra-Furans	*	*		359	0.476
1,2,3,4,6,7,8-HpCDD	*	* n	1.01	Not F <sub>7</sub>	*	*		996	2.5	3.62	Total Penta-Furans	0.0000	0.0000		499	0.743
OCDD	*	* n	1.04	Not F <sub>7</sub>	*	*		2350	1.0	5.08	Total Hexa-Furans	*	*		502	0.711
											Total Hepta-Furans	*	*		688	1.23
2,3,7,8-TCDF	*	* n	0.91	Not F <sub>7</sub>	*	*		359	2.5	0.476						
1,2,3,7,8-PeCDF	*	* n	0.97	Not F <sub>7</sub>	*	*		269	2.5	0.406						
2,3,4,7,8-PeCDF	*	* n	0.94	Not F <sub>7</sub>	*	*		499	2.5	0.734						
1,2,3,4,7,8-HxCDF	*	* n	1.32	Not F <sub>7</sub>	*	*		502	2.5	0.591						
1,2,3,6,7,8-HxCDF	*	* n	1.18	Not F <sub>7</sub>	*	*		502	2.5	0.644						
2,3,4,6,7,8-HxCDF	*	* n	1.23	Not F <sub>7</sub>	*	*		350	2.5	0.489						
1,2,3,7,8,9-HxCDF	*	* n	1.13	Not F <sub>7</sub>	*	*		350	2.5	0.664						
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	Not F <sub>7</sub>	*	*		688	2.5	1.16						
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	Not F <sub>7</sub>	*	*		314	2.5	0.599						
OCDF	*	* n	1.05	Not F <sub>7</sub>	*	*		653	2.5	2.66						

IS	13C-2,3,7,8-TCDD	2.30e+07	0.79 y	1.06	26:58	1.020	1714.9	81.2
IS	13C-1,2,3,7,8-PeCDD	2.20e+07	0.62 y	1.08	31:26	1.189	1609.6	76.2
IS	13C-1,2,3,4,7,8-HxCDD	1.46e+07	1.31 y	0.74	34:47	1.014	1657.3	78.4
IS	13C-1,2,3,6,7,8-HxCDD	1.49e+07	1.28 y	0.75	34:54	1.017	1677.7	79.4
IS	13C-1,2,3,7,8,9-HxCDD	1.74e+07	1.27 y	0.89	35:12	1.026	1649.5	78.1
IS	13C-1,2,3,4,6,7,8-HpCDD	1.27e+07	1.04 y	0.70	38:39	1.127	1526.9	72.3
IS	13C-OCDD	1.95e+07	0.90 y	0.59	42:01	1.225	2787.8	66.0
IS	13C-2,3,7,8-TCDF	2.92e+07	0.74 y	0.97	26:13	0.992	1665.4	78.8
IS	13C-1,2,3,7,8-PeCDF	2.57e+07	1.54 y	0.99	30:16	1.145	1432.4	67.8
IS	13C-2,3,4,7,8-PeCDF	2.70e+07	1.52 y	1.01	31:09	1.179	1476.6	69.9
IS	13C-1,2,3,4,7,8-HxCDF	1.89e+07	0.51 y	0.94	33:53	0.988	1699.0	80.4
IS	13C-1,2,3,6,7,8-HxCDF	2.08e+07	0.51 y	1.23	34:01	0.991	1433.1	67.8
IS	13C-2,3,4,6,7,8-HxCDF	1.91e+07	0.52 y	1.03	34:37	1.009	1558.2	73.8
IS	13C-1,2,3,7,8,9-HxCDF	1.71e+07	0.50 y	0.89	35:35	1.037	1633.8	77.3
IS	13C-1,2,3,4,6,7,8-HpCDF	1.42e+07	0.44 y	0.71	37:28	1.092	1695.5	80.3
IS	13C-1,2,3,4,7,8,9-HpCDF	1.17e+07	0.44 y	0.64	39:12	1.143	1544.4	73.1
IS	13C-OCDF	2.33e+07	0.91 y	0.76	42:15	1.231	2594.7	61.4

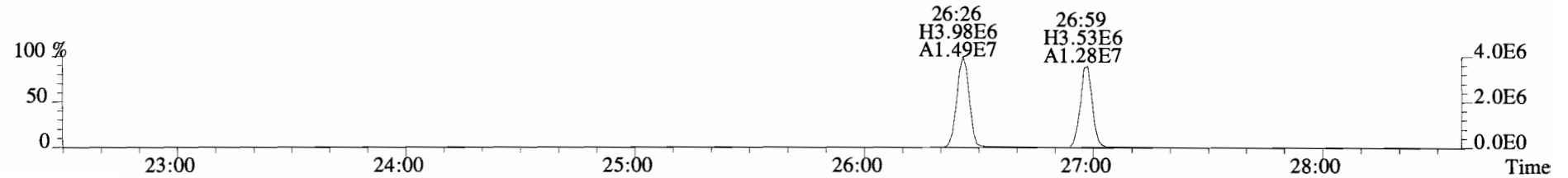
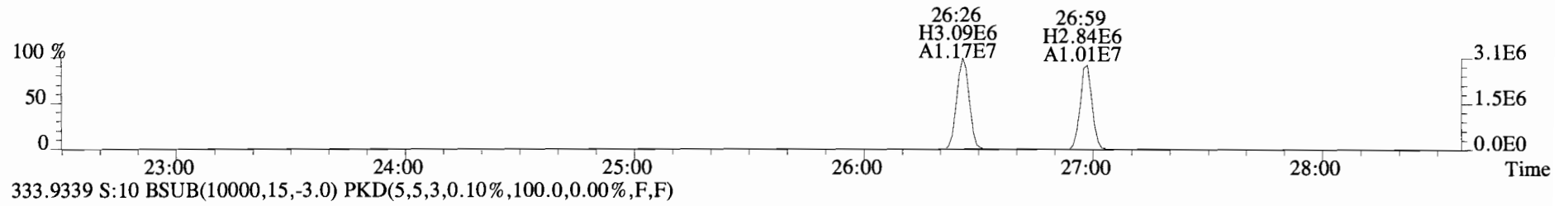
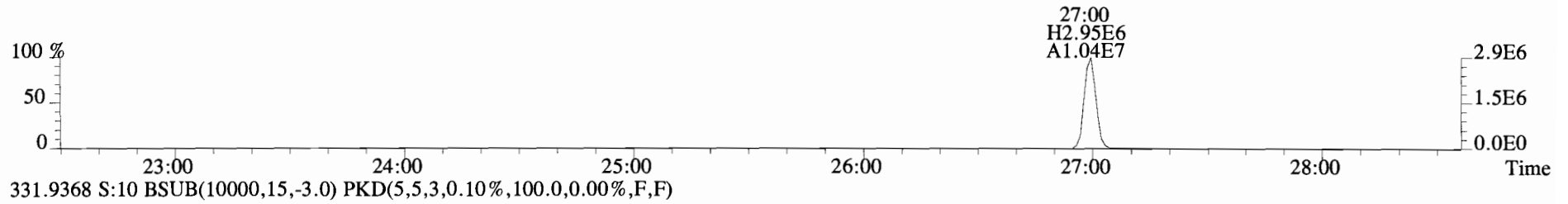
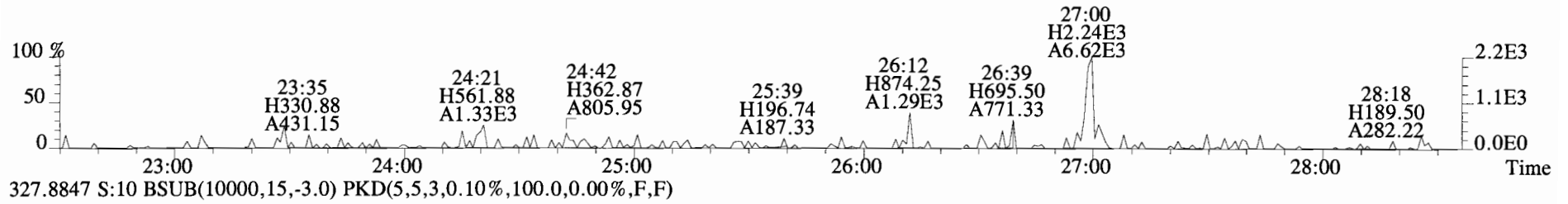
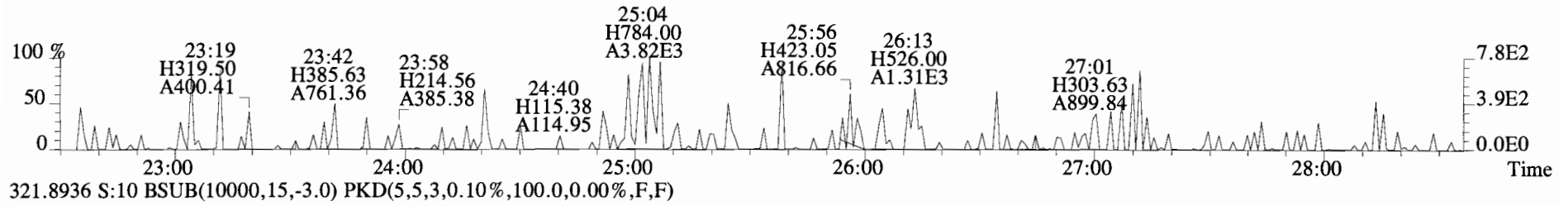
C/Up	37C1-2,3,7,8-TCDD	1.04e+07		1.04	26:60	1.021	793.65	93.9
RS/RT	13C-1,2,3,4-TCDD	2.66e+07	0.79 y	1.00	26:26	*	2112.6	
RS	13C-1,2,3,4-TCDF	3.83e+07	0.74 y	1.00	25:03	*	2112.6	
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.50e+07	0.53 y	1.00	34:19	*	2112.6	

Rec Qual

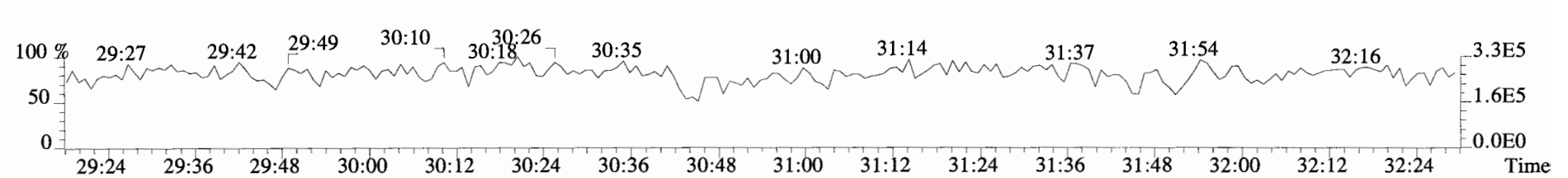
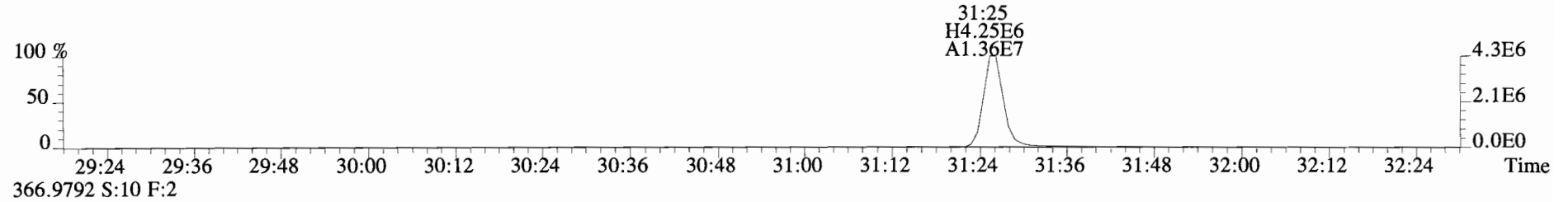
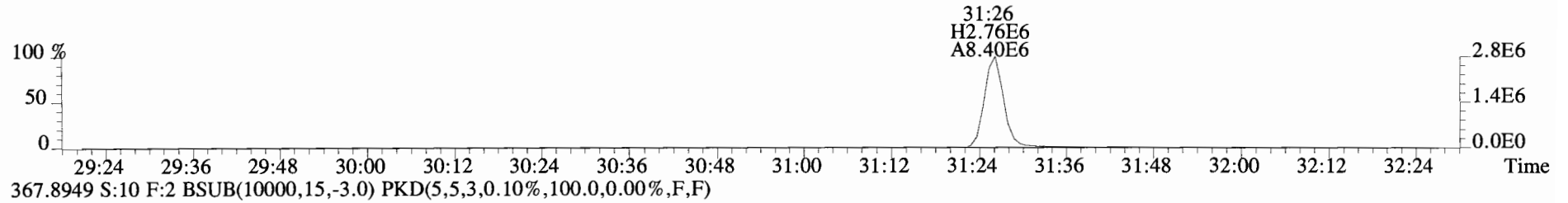
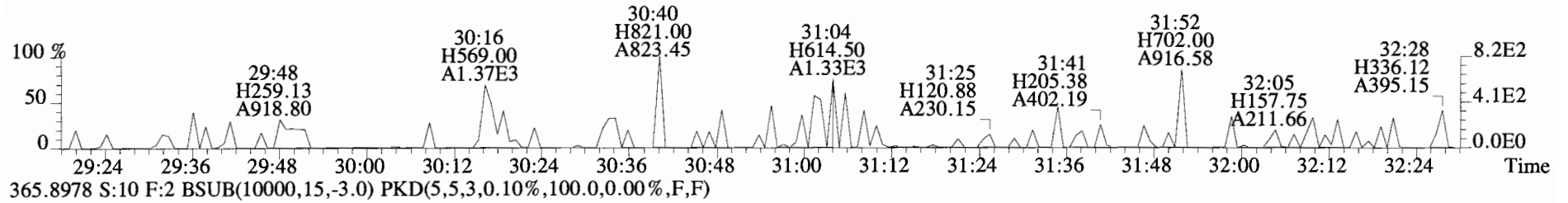
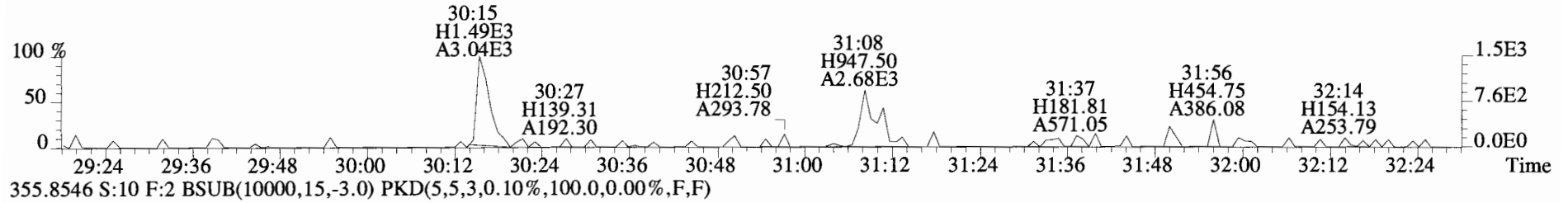
Integrations  
 by  
 Analyst: MS  
 Date: 9/10/14

Reviewed  
 by  
 Analyst: MS  
 Date: 9/10/14

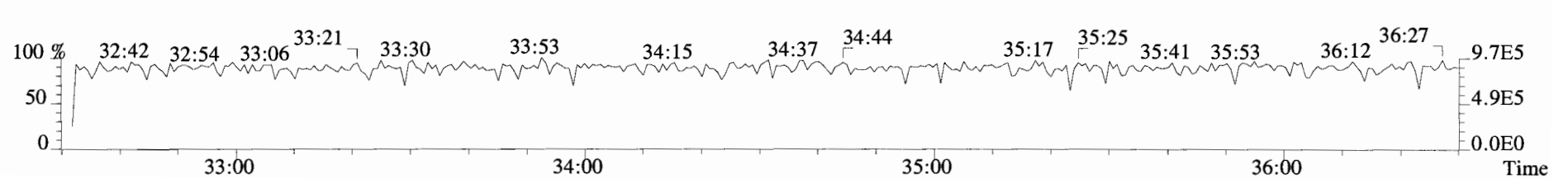
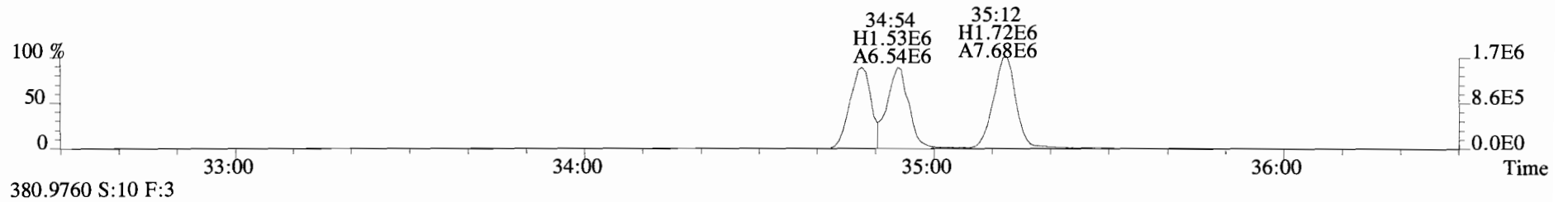
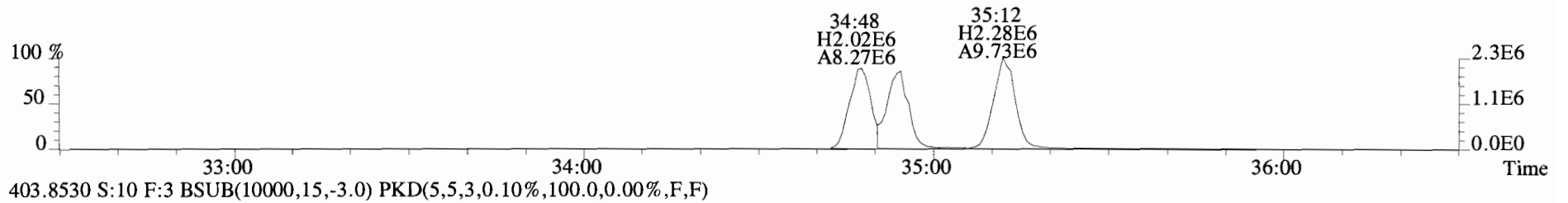
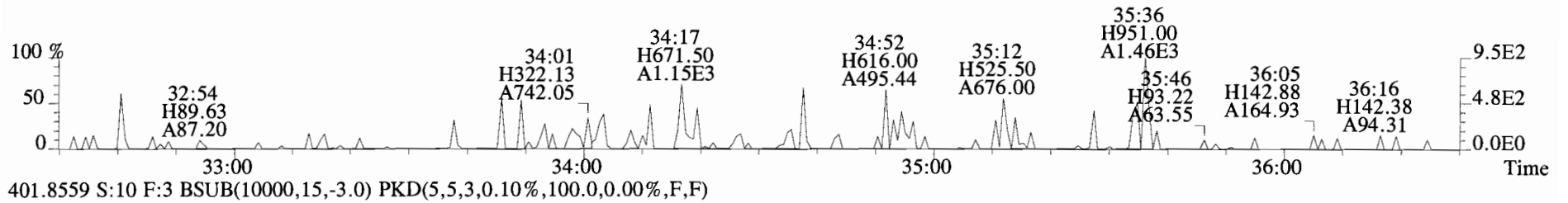
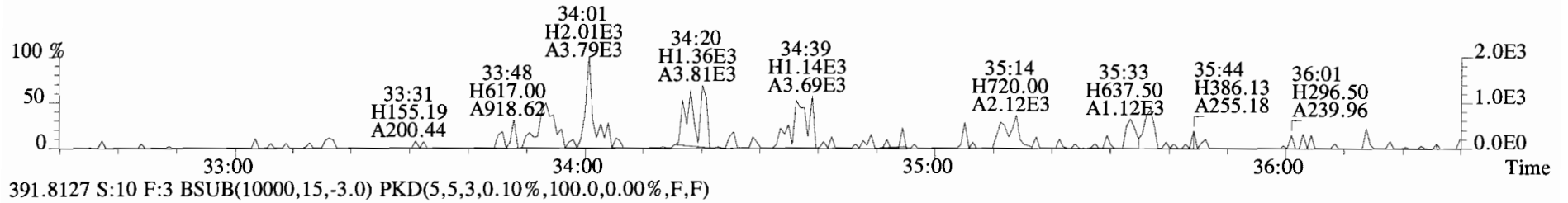
File:140909D1 #1-552 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



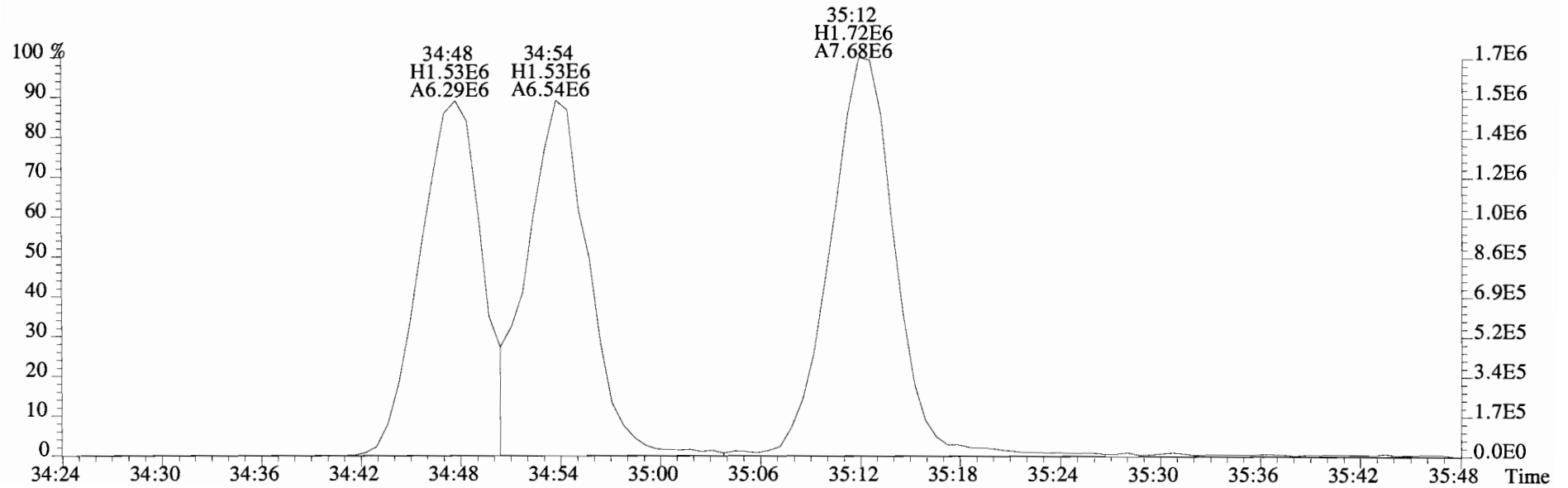
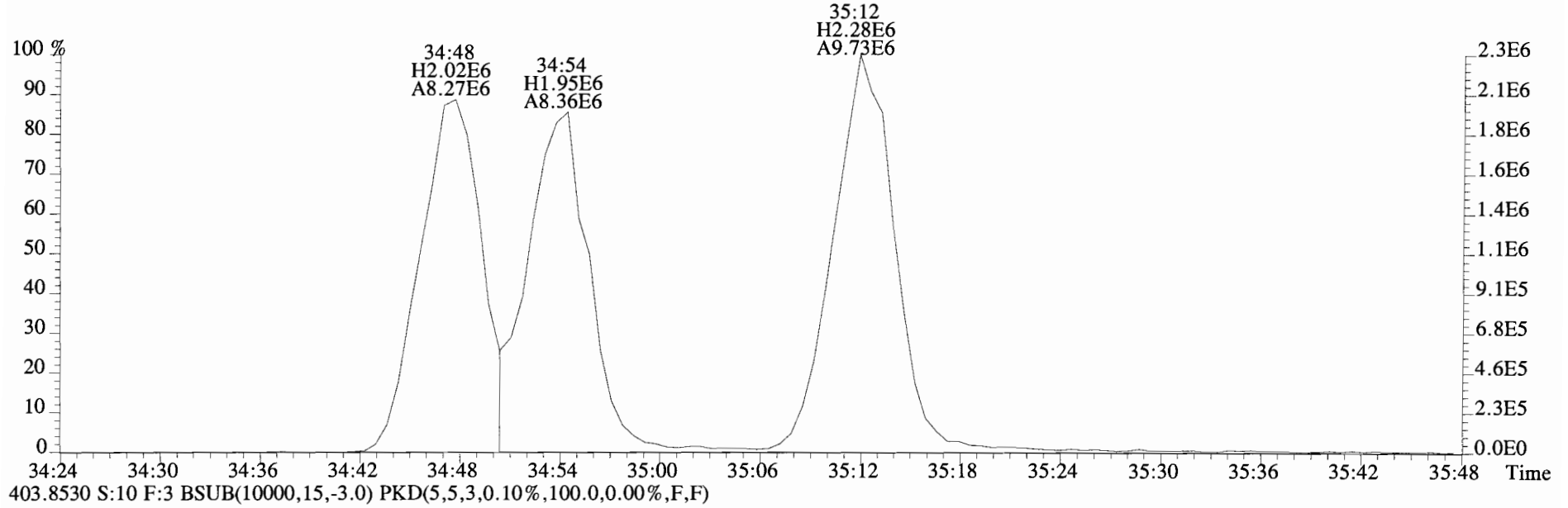
File:140909D1 #1-256 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140909D1 #1-385 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text: Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 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)

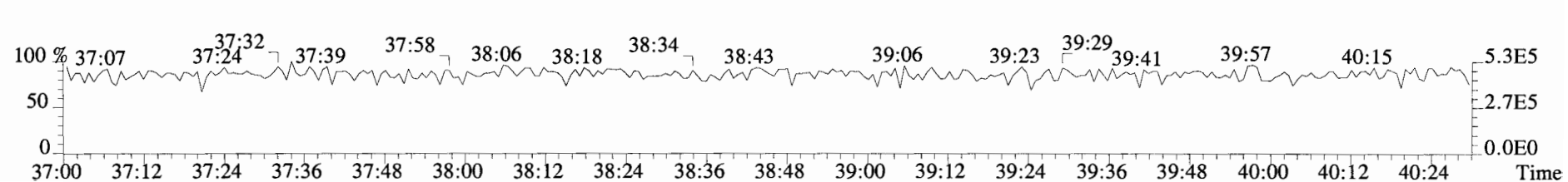
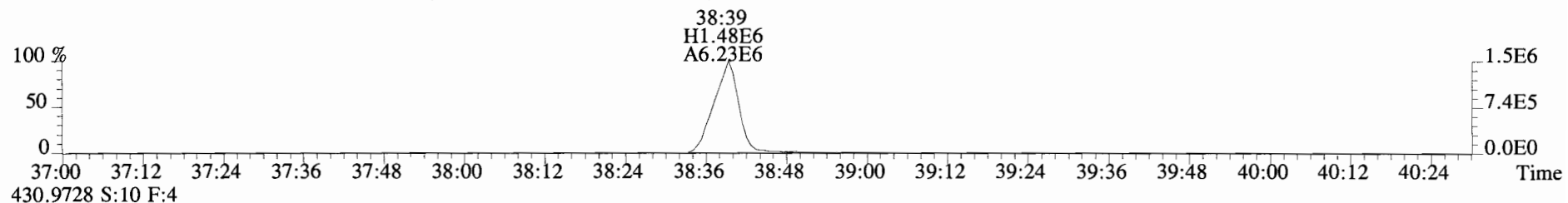
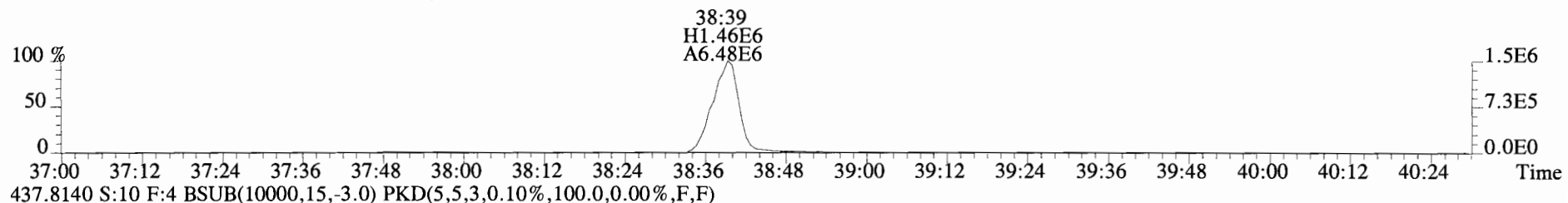
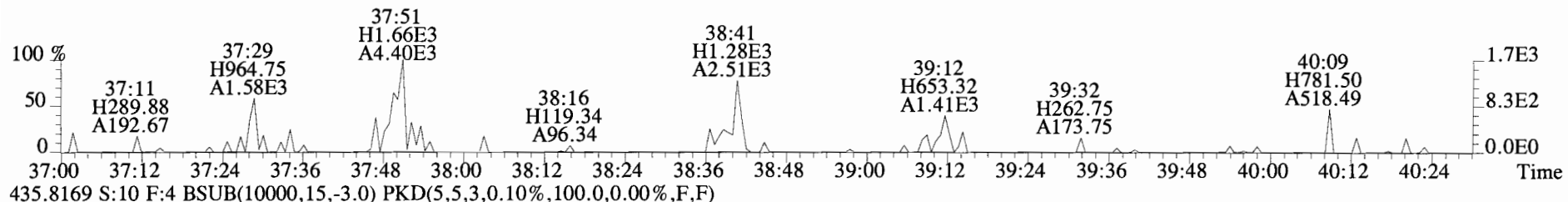
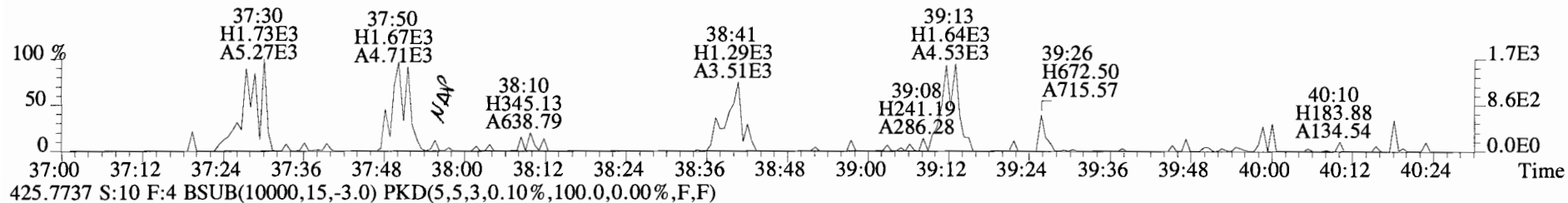


File:140909D1 #1-385 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

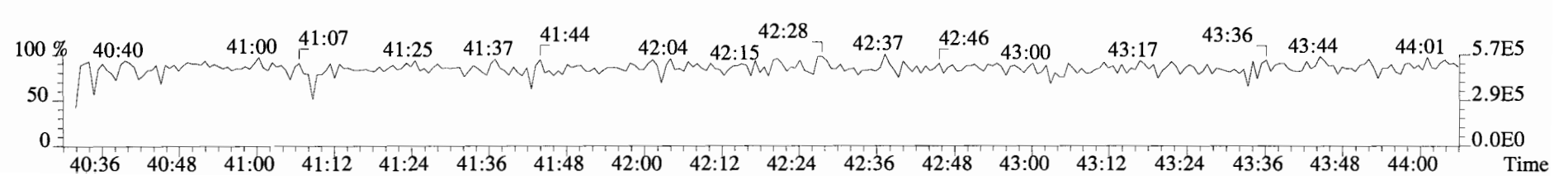
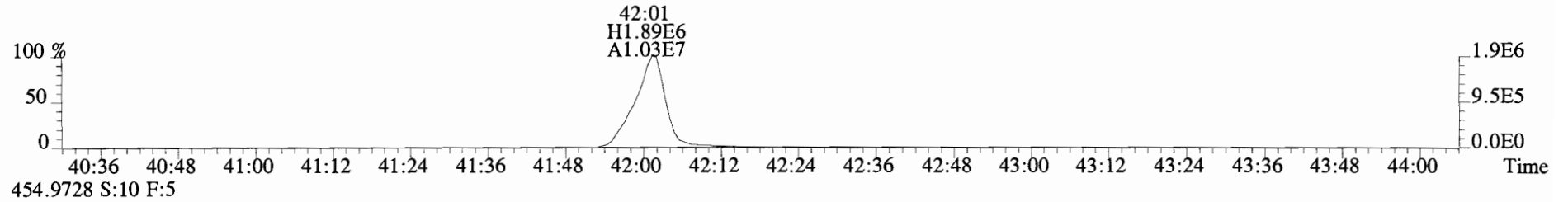
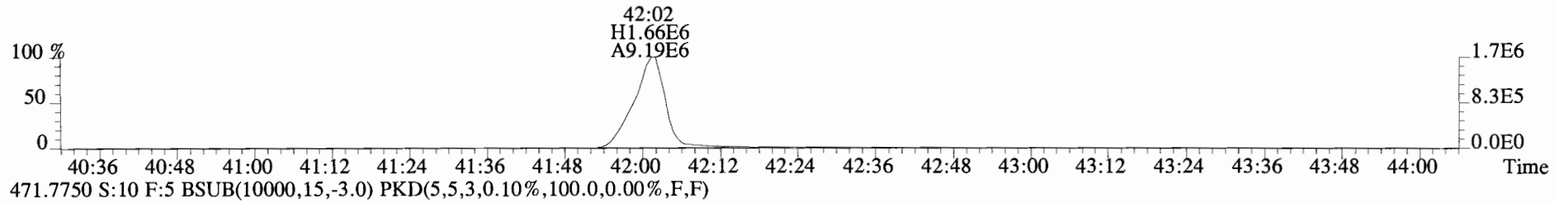
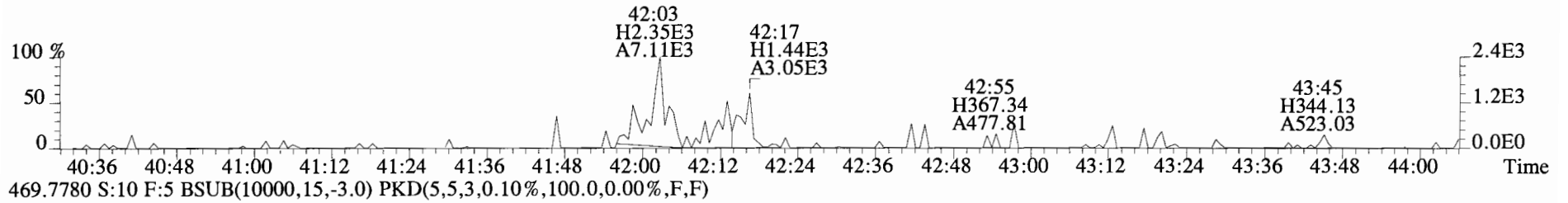
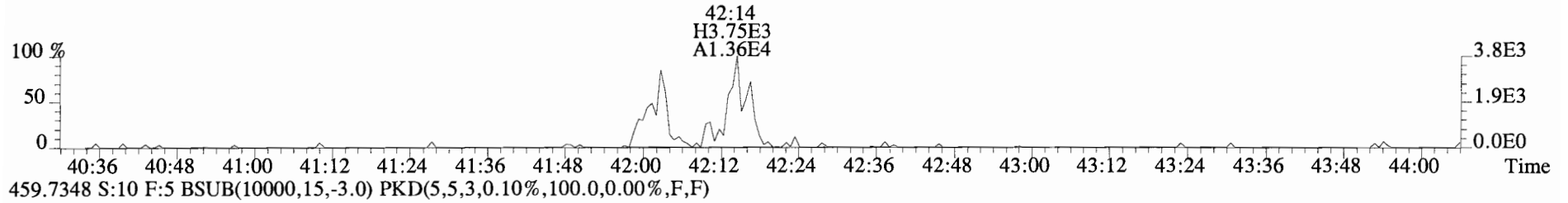




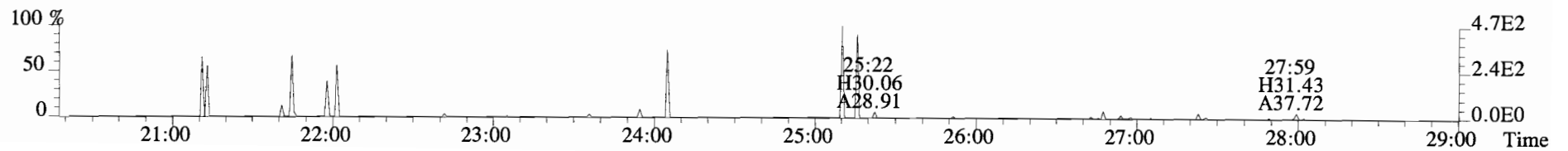
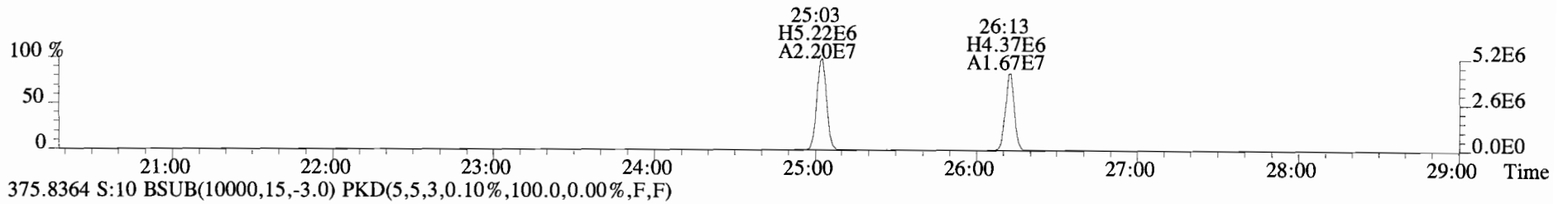
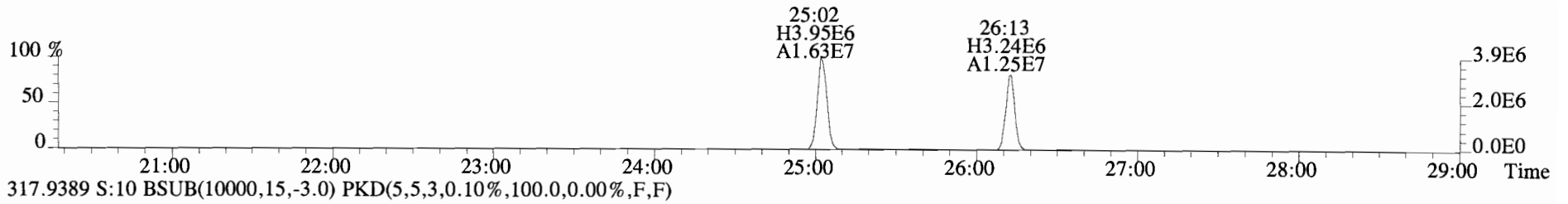
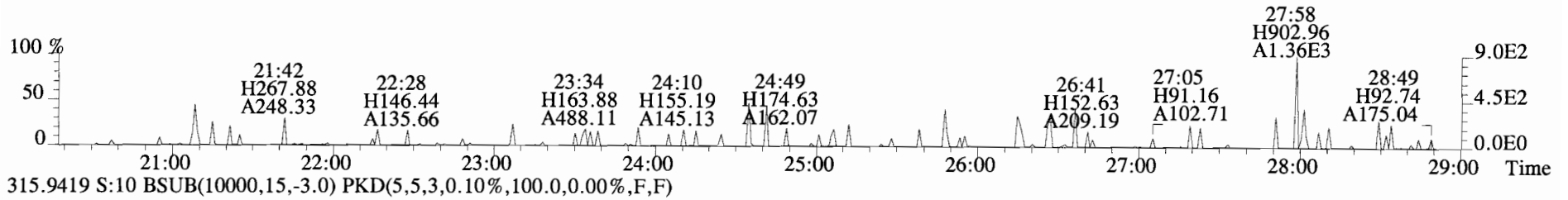
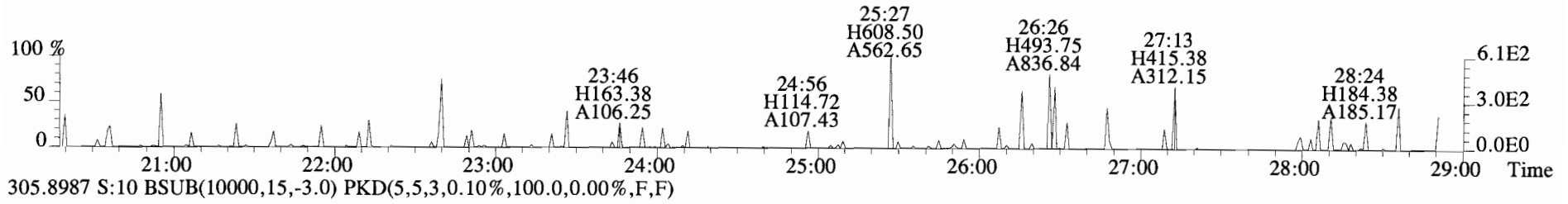
File:140909D1 #1-326 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



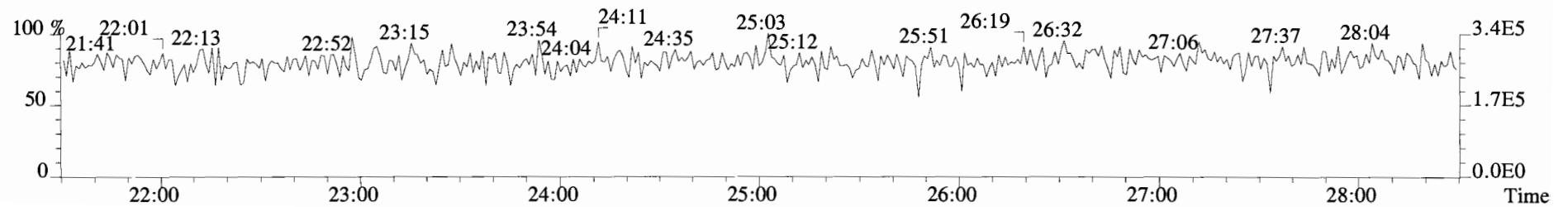
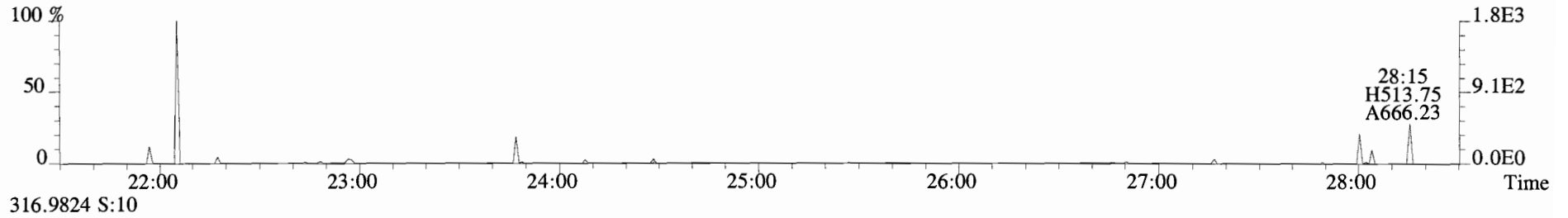
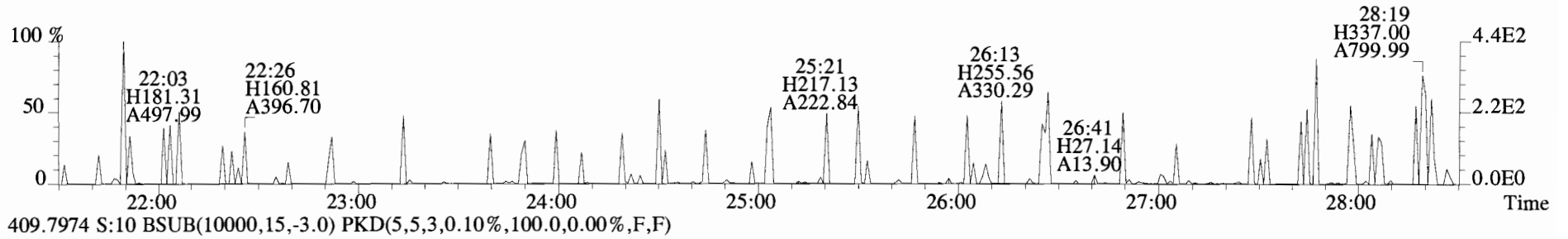
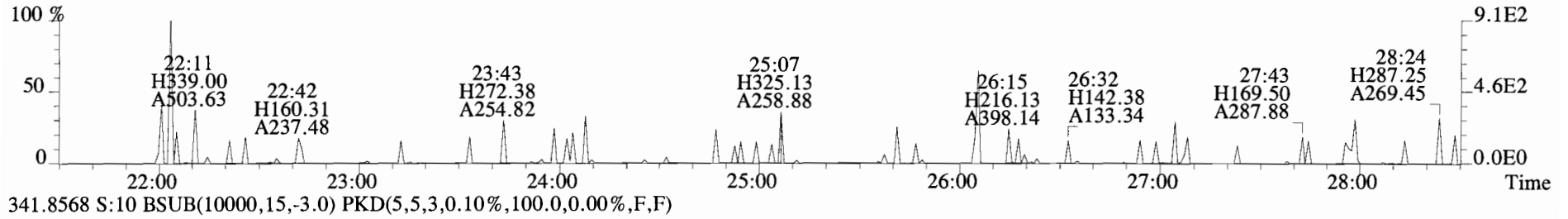
File:140909D1 #1-389 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



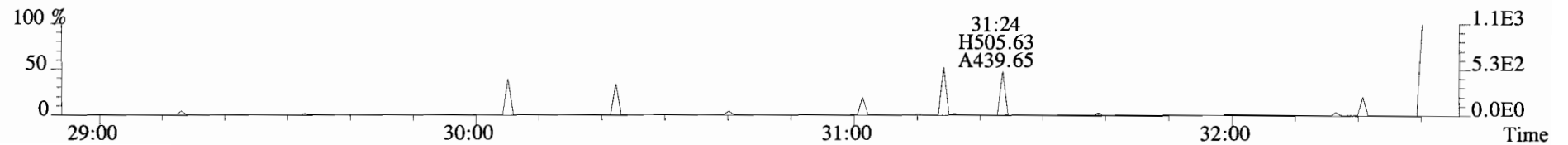
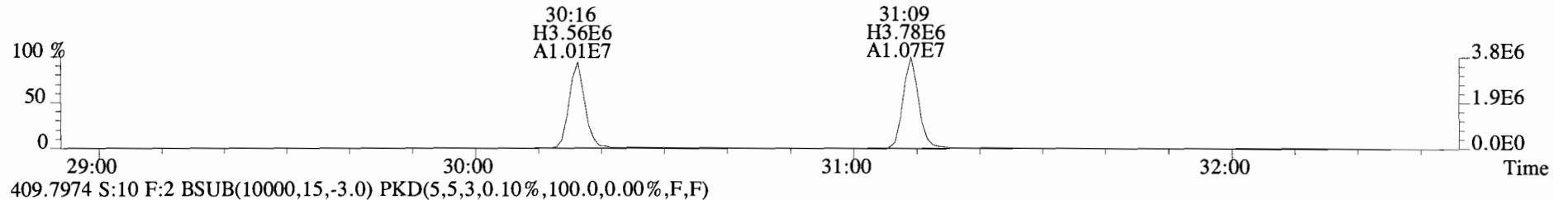
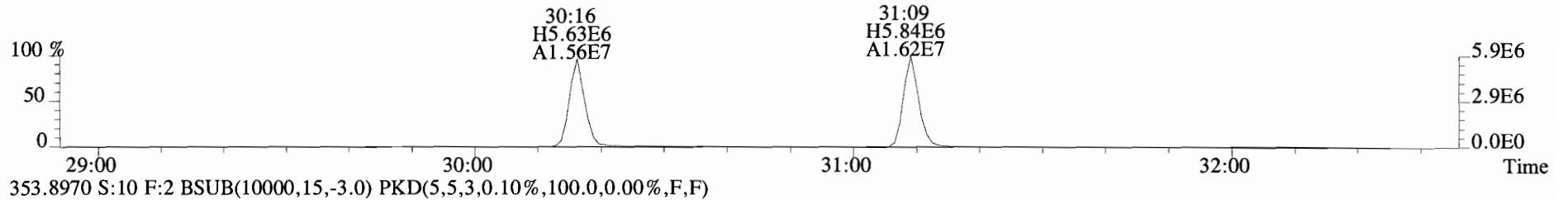
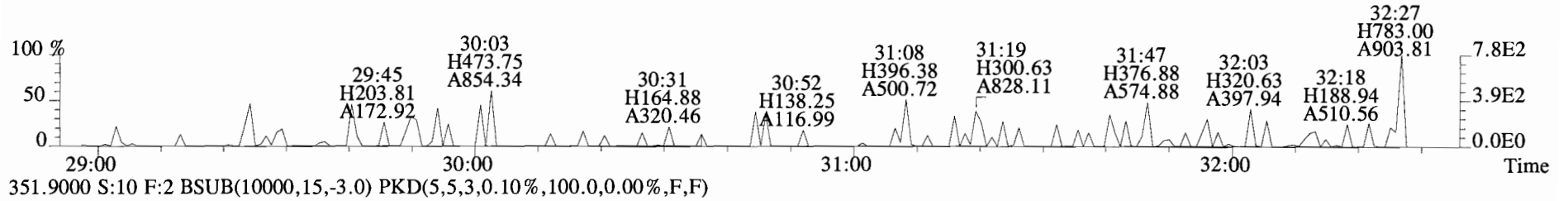
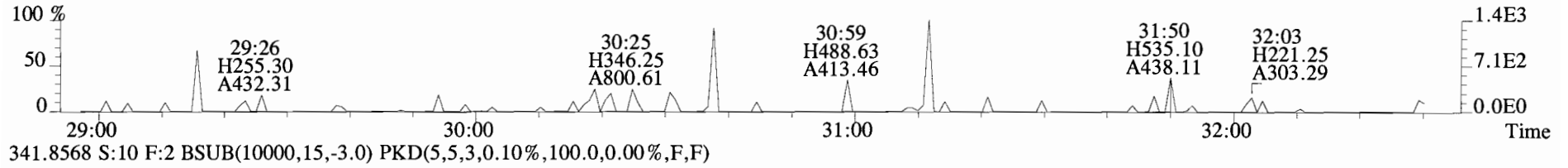
File:140909D1 #1-552 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



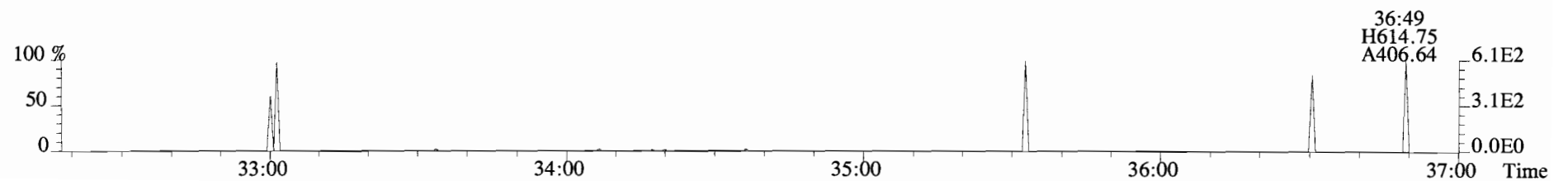
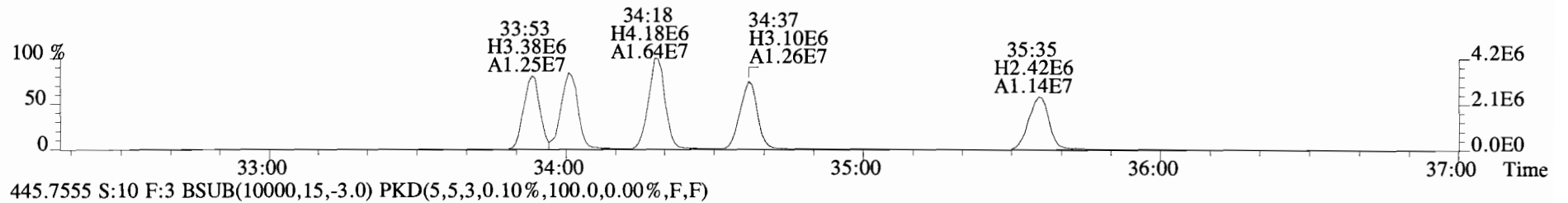
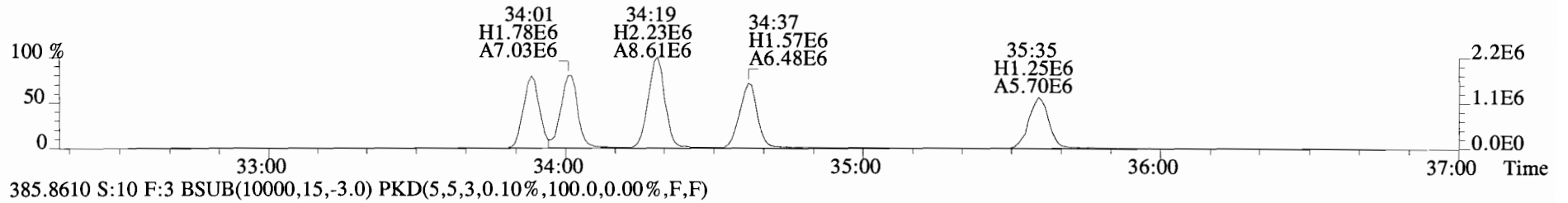
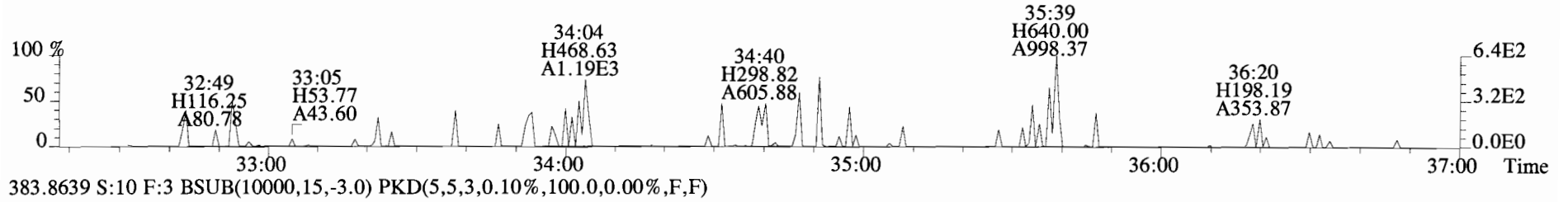
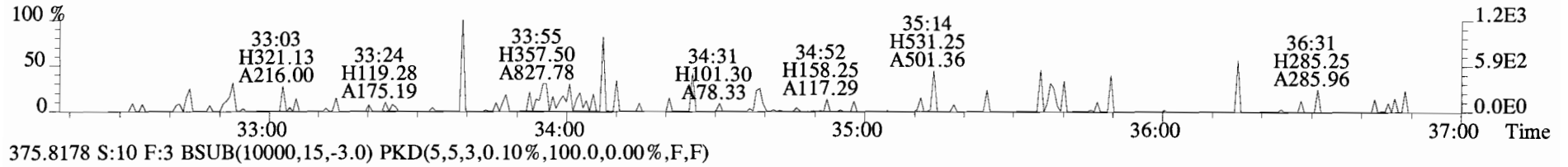
File:140909D1 #1-552 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



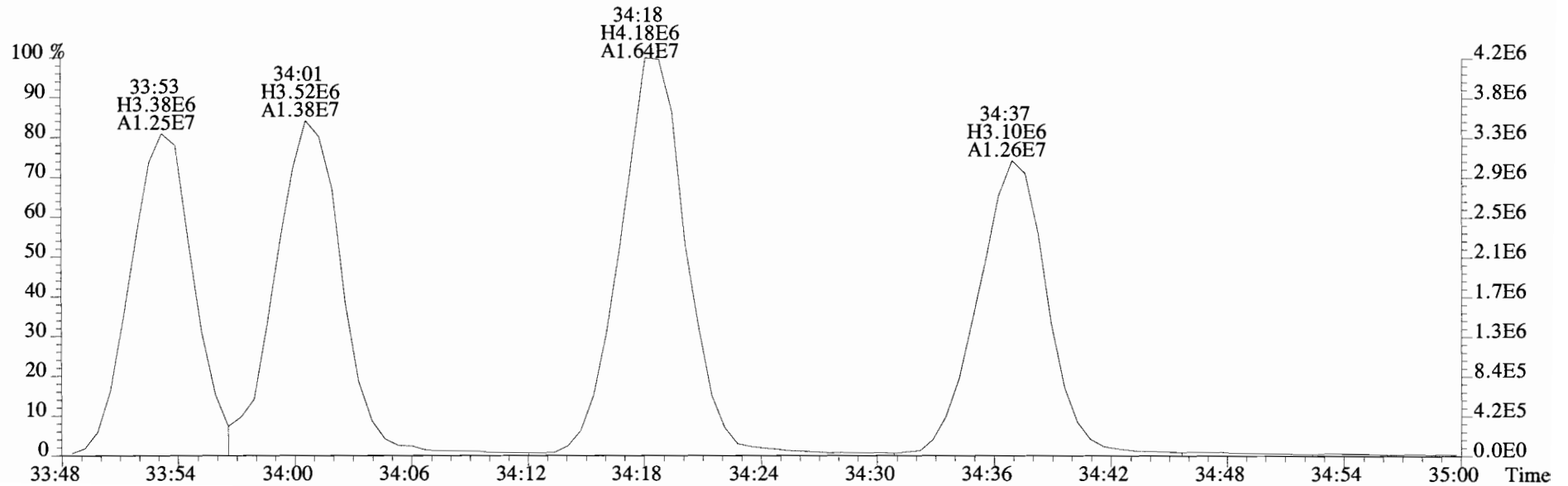
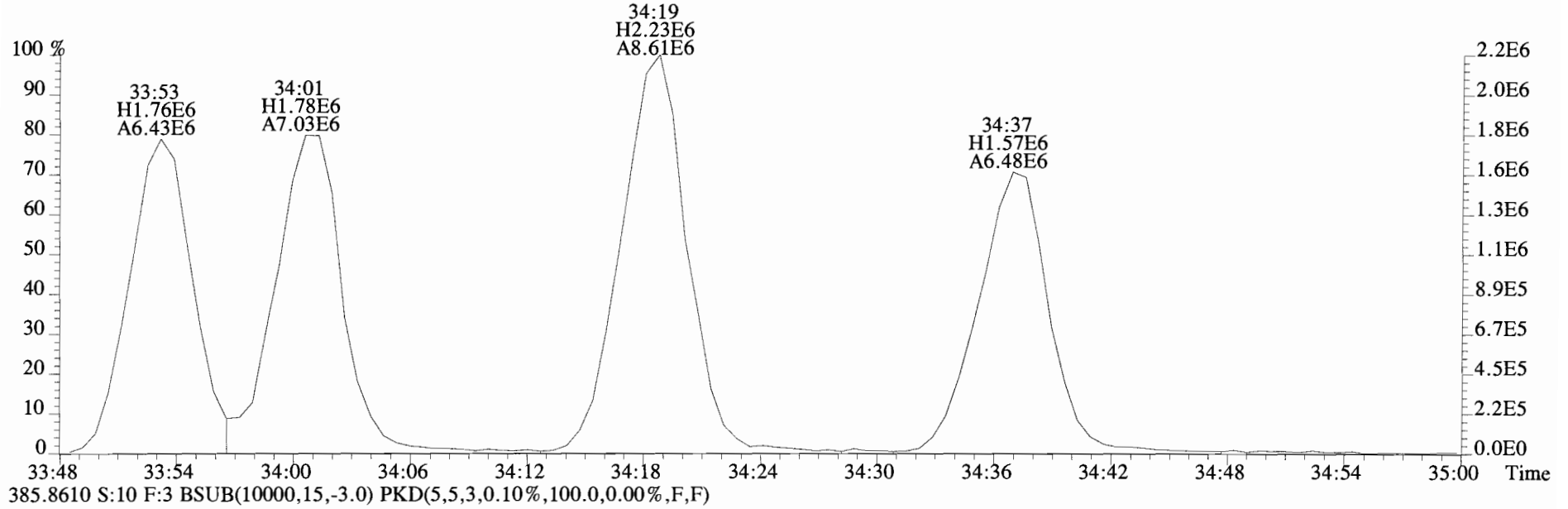
File:140909D1 #1-256 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



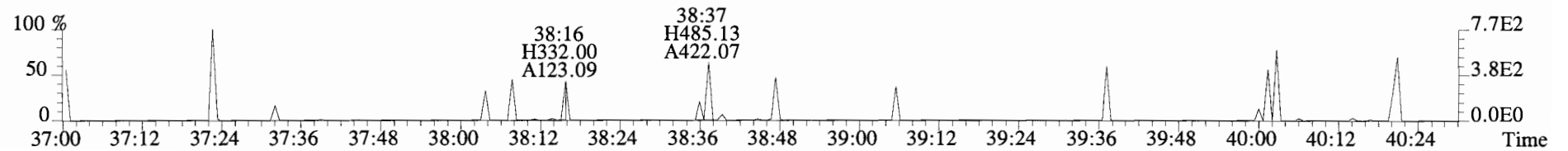
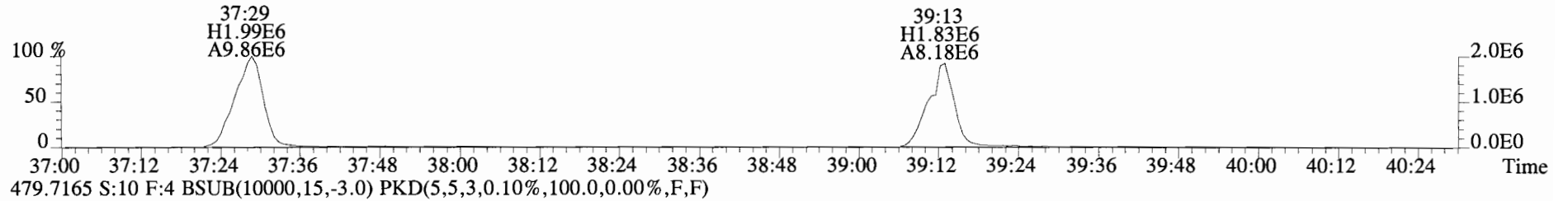
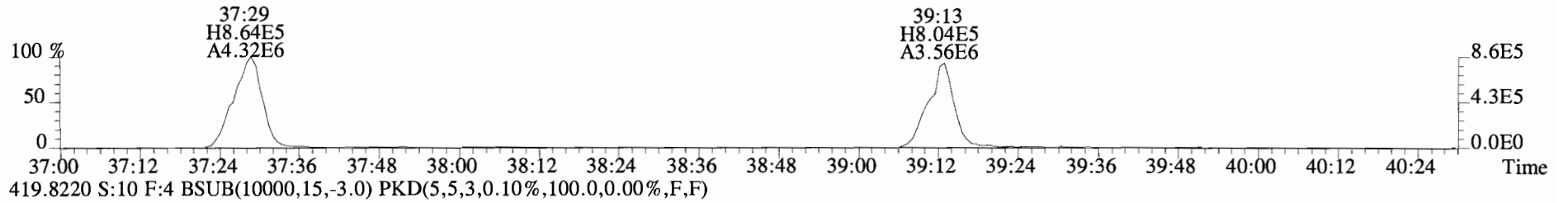
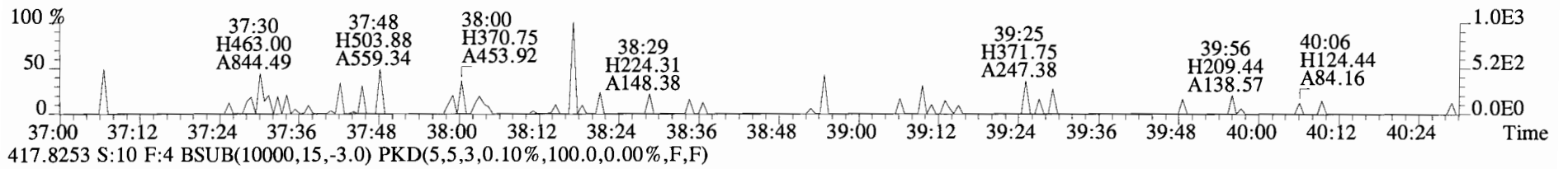
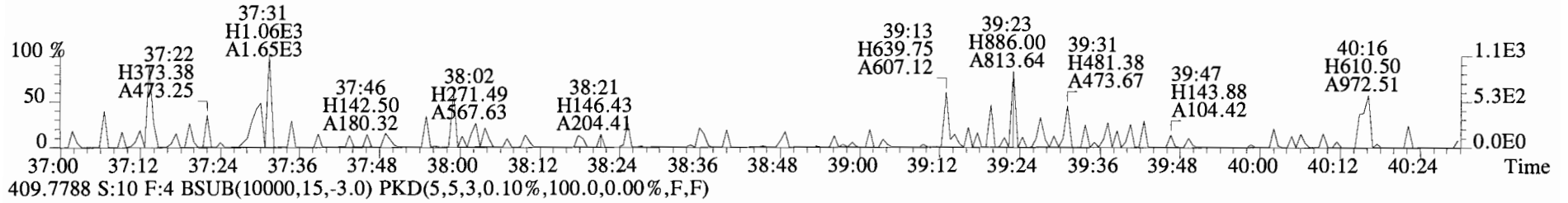
File:140909D1 #1-385 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text: Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140909D1 #1-385 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 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)

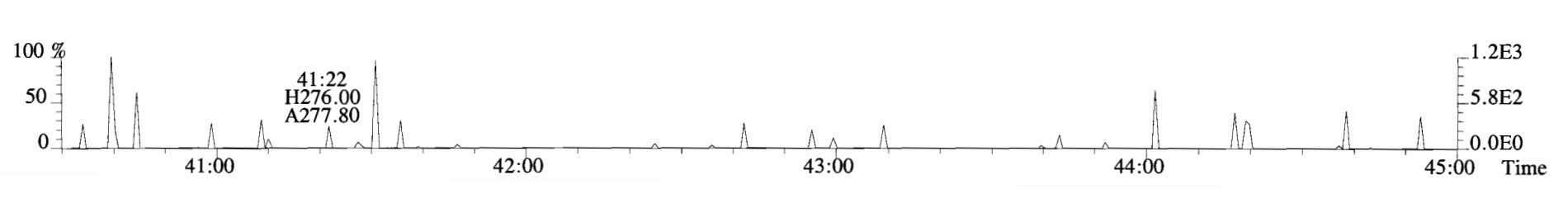
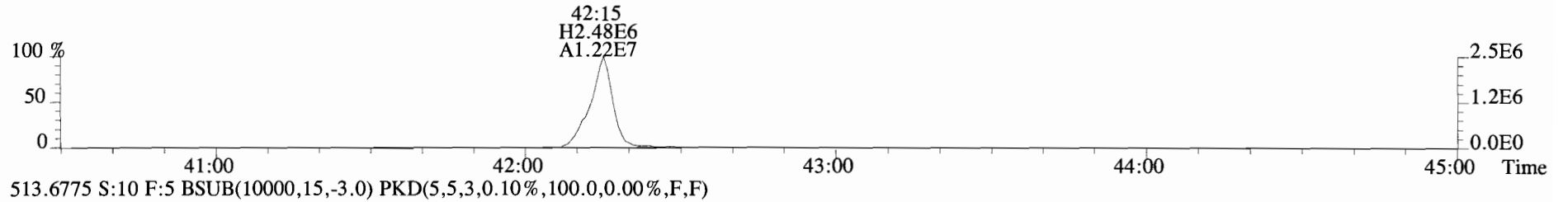
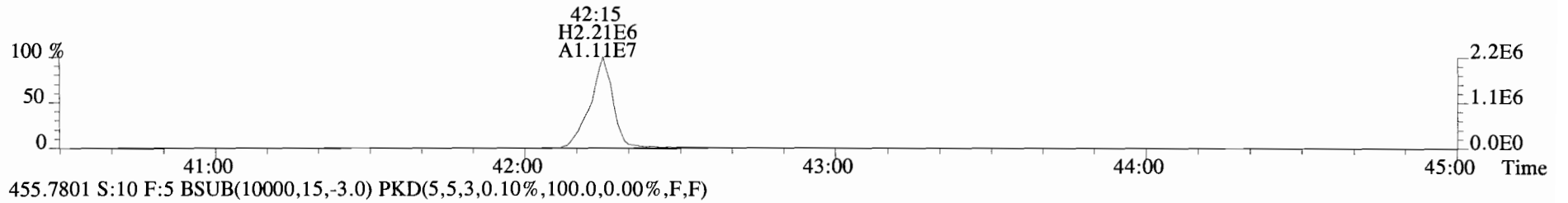
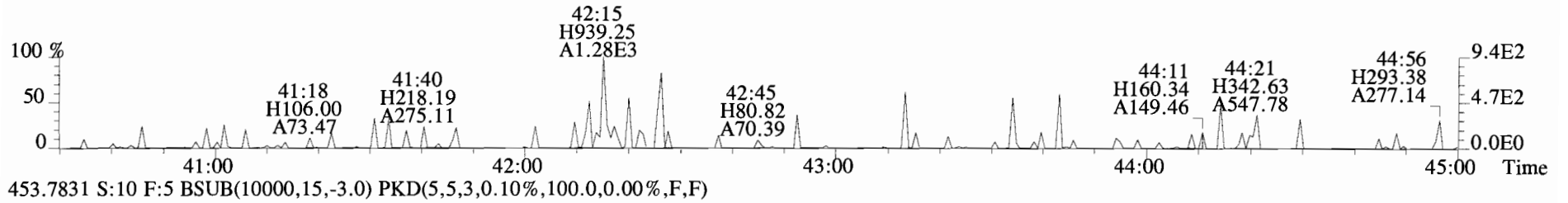
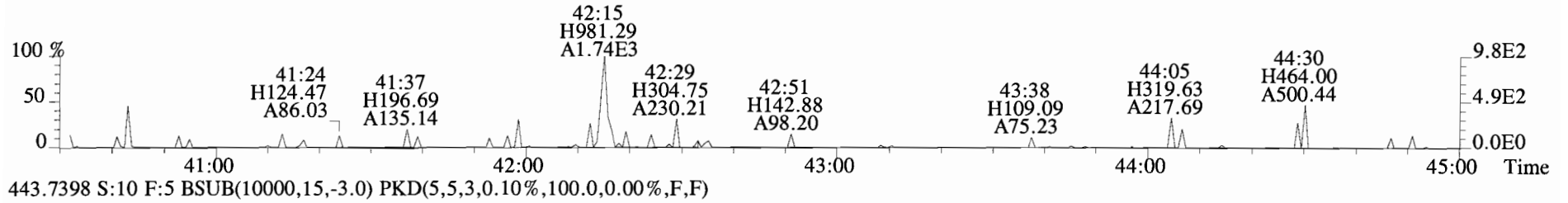


File:140909D1 #1-326 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 Exp:OCDD\_DB5  
407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





File:140909D1 #1-389 Acq: 9-SEP-2014 20:17:28 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1400647-01 QC-EB-01-20140903-W 0.94669 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)



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 $\eta$	*	*		705	2.5	0.949	Total Tetra-Dioxins	*	*		705	0.949
1,2,3,7,8-PeCDD	*	* n	0.84	NotF $\eta$	*	*		398	2.5	0.513	Total Penta-Dioxins	*	*		398	0.513
1,2,3,4,7,8-HxCDD	*	* n	1.05	NotF $\eta$	*	*		590	2.5	1.68	Total Hexa-Dioxins	*	*		840	2.47
1,2,3,6,7,8-HxCDD	*	* n	1.04	NotF $\eta$	*	*		590	2.5	1.58	Total Hepta-Dioxins	8.35	8.35	*	*	
1,2,3,7,8,9-HxCDD	*	* n	0.90	NotF $\eta$	*	*		590	2.5	1.95	Total Tetra-Furans	*	*		448	0.567
1,2,3,4,6,7,8-HpCDD	2.79e+04	0.91 y	1.01	38:40	1.000	3.9851	*	2.5	*	*	Total Penta-Furans	0.0000	0.0000		566	0.813
OCDD	1.23e+05	0.91 y	1.04	42:03	1.000	20.626	*	2.5	*	*	Total Hexa-Furans	*	*		1060	1.35
											Total Hepta-Furans	*	*		1270	1.90
2,3,7,8-TCDF	*	* n	0.91	NotF $\eta$	*	*		448	2.5	0.567						
1,2,3,7,8-PeCDF	*	* n	0.97	NotF $\eta$	*	*		419	2.5	0.584						
2,3,4,7,8-PeCDF	*	* n	0.94	NotF $\eta$	*	*		419	2.5	0.618						
1,2,3,4,7,8-HxCDF	*	* n	1.32	NotF $\eta$	*	*		596	2.5	0.630						
1,2,3,6,7,8-HxCDF	*	* n	1.18	NotF $\eta$	*	*		596	2.5	0.661						
2,3,4,6,7,8-HxCDF	*	* n	1.23	NotF $\eta$	*	*		596	2.5	0.781						
1,2,3,7,8,9-HxCDF	*	* n	1.13	NotF $\eta$	*	*		596	2.5	1.05						
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	NotF $\eta$	*	*		1730	1.0	1.01						
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	NotF $\eta$	*	*		546	2.5	0.830						
OCDF	*	* n	1.05	NotF $\eta$	*	*		1500	1.0	2.02						

											Rec	Qual
IS	13C-2,3,7,8-TCDD	2.31e+07	0.79 y	1.06	26:60	1.021	1783.1				86.7	
IS	13C-1,2,3,7,8-PeCDD	2.26e+07	0.62 y	1.08	31:27	1.189	1707.5				83.0	
IS	13C-1,2,3,4,7,8-HxCDD	1.59e+07	1.34 y	0.74	34:48	1.014	1843.9				89.7	
IS	13C-1,2,3,6,7,8-HxCDD	1.64e+07	1.19 y	0.75	34:55	1.017	1892.4				92.0	
IS	13C-1,2,3,7,8,9-HxCDD	1.86e+07	1.29 y	0.89	35:13	1.026	1801.9				87.6	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.43e+07	1.04 y	0.70	38:40	1.127	1749.6				85.1	
IS	13C-OCDD	2.35e+07	0.88 y	0.59	42:02	1.225	3446.5				83.8	
IS	13C-2,3,7,8-TCDF	3.00e+07	0.76 y	0.97	26:14	0.992	1750.0				85.1	
IS	13C-1,2,3,7,8-PeCDF	2.70e+07	1.55 y	0.99	30:17	1.145	1534.4				74.6	
IS	13C-2,3,4,7,8-PeCDF	2.86e+07	1.56 y	1.01	31:11	1.179	1597.7				77.7	
IS	13C-1,2,3,4,7,8-HxCDF	2.01e+07	0.52 y	0.94	33:54	0.988	1843.6				89.7	
IS	13C-1,2,3,6,7,8-HxCDF	2.32e+07	0.51 y	1.23	34:02	0.991	1626.1				79.1	
IS	13C-2,3,4,6,7,8-HxCDF	2.04e+07	0.50 y	1.03	34:38	1.009	1703.5				82.9	
IS	13C-1,2,3,7,8,9-HxCDF	1.84e+07	0.50 y	0.89	35:36	1.037	1791.3				87.1	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.57e+07	0.44 y	0.71	37:29	1.092	1918.4				93.3	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.38e+07	0.43 y	0.64	39:13	1.143	1855.5				90.2	
IS	13C-OCDF	2.90e+07	0.88 y	0.76	42:16	1.231	3300.4				80.3	

C/up	37C1-2,3,7,8-TCDD	1.01e+07		1.04	27:01	1.021	791.41				96.2	
RS/RT	13C-1,2,3,4-TCDD	2.50e+07	0.81 y	1.00	26:27	*	2056.2					
RS	13C-1,2,3,4-TCDF	3.65e+07	0.75 y	1.00	25:04	*	2056.2					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.38e+07	0.52 y	1.00	34:20	*	2056.2					

Integrations  
 by ms  
 Analyst: ms  
 Date: 9/10/14  
 Reviewed  
 by [Signature]  
 Analyst: [Signature]  
 Date: 9/10/14

Totals class: HpCDD EMPC

Entry #: 25

Run: 12 File: 140909D1 S: 11 I: 1 F: 4

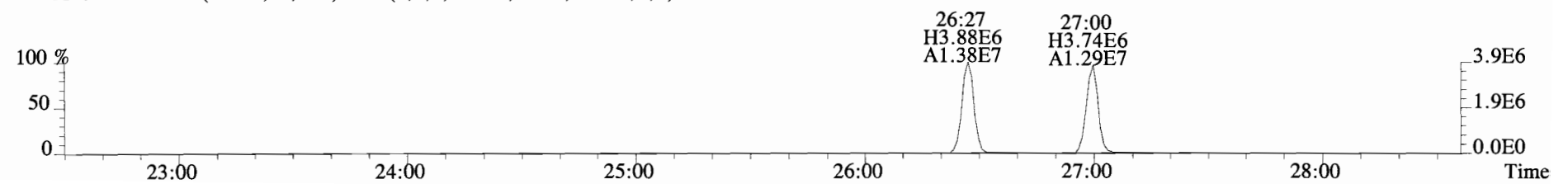
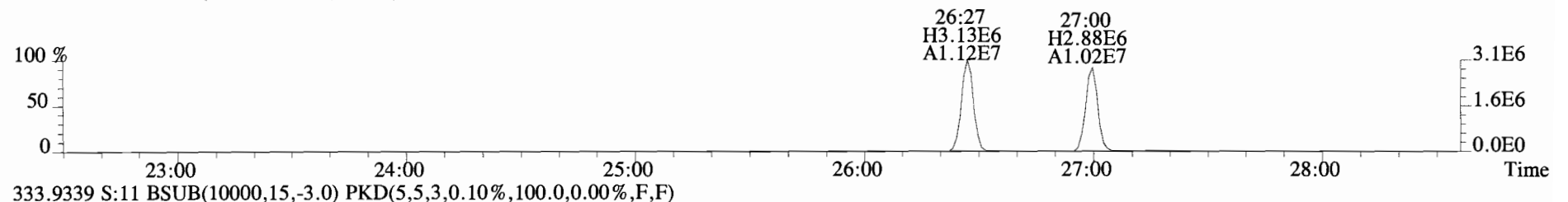
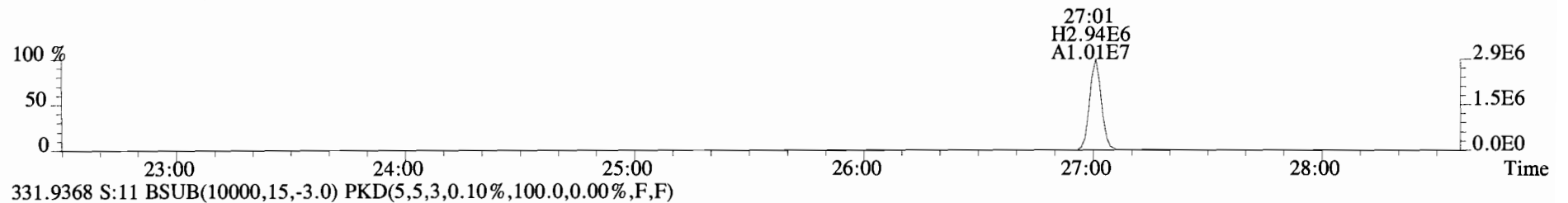
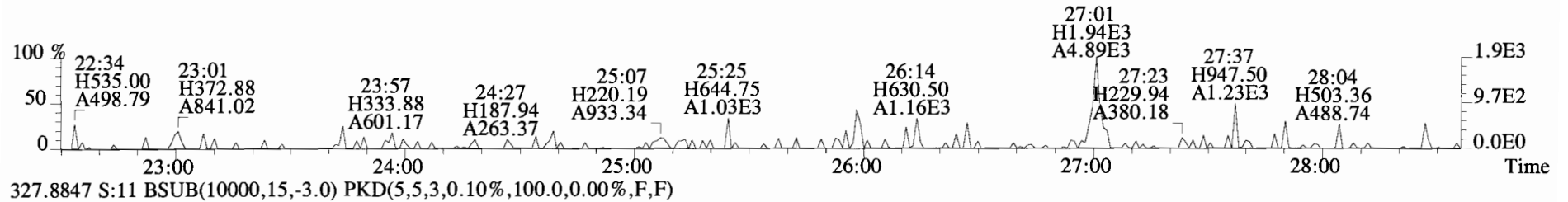
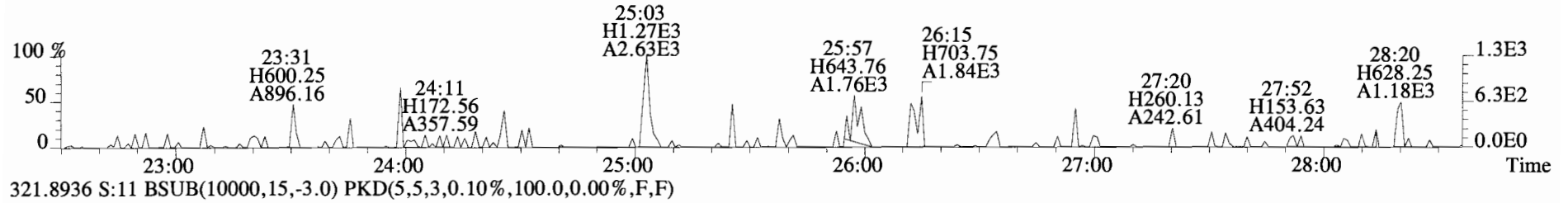
Acquired: 9-SEP-14 21:05:40 Processed: 10-SEP-14 09:25:36

Total Concentration: 8.3504

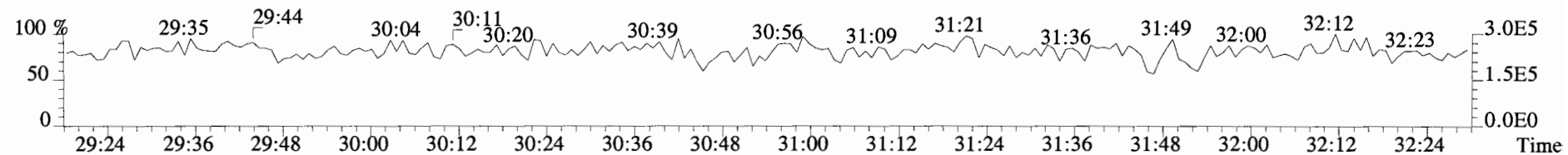
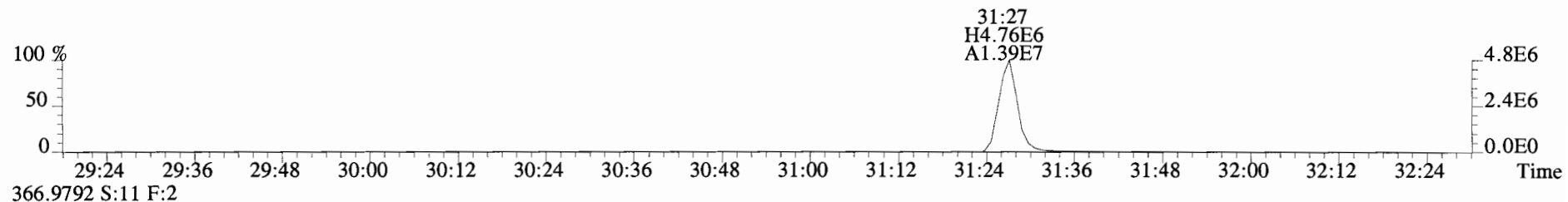
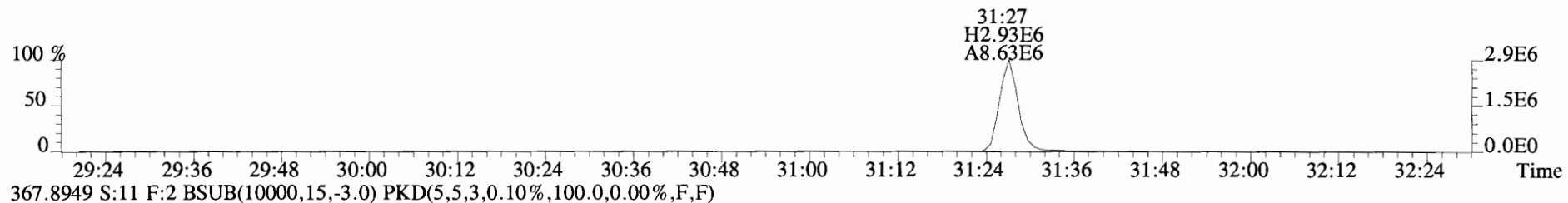
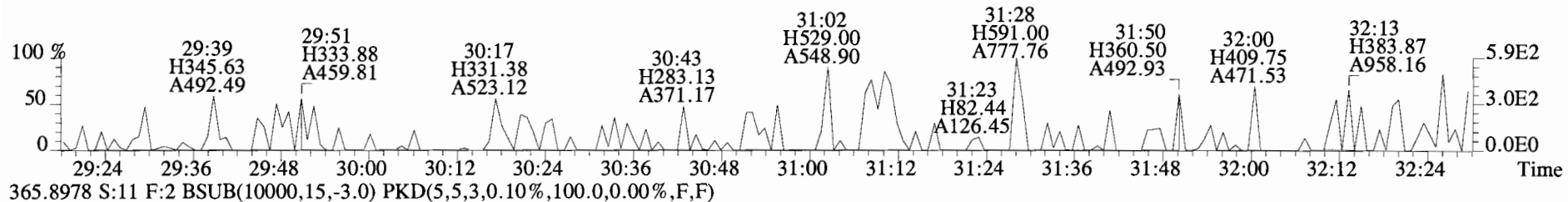
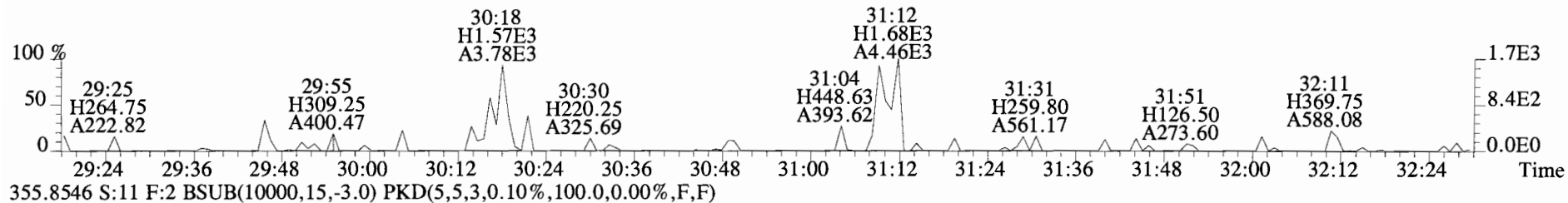
Unnamed Concentration: 4.365

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
37:51	1.437e+04	1.618e+04	0.89 y	3.055e+04	4.3653
38:40	1.329e+04	1.460e+04	0.91 y	2.789e+04	3.9851 1,2,3,4,6,7,8-HpCDD

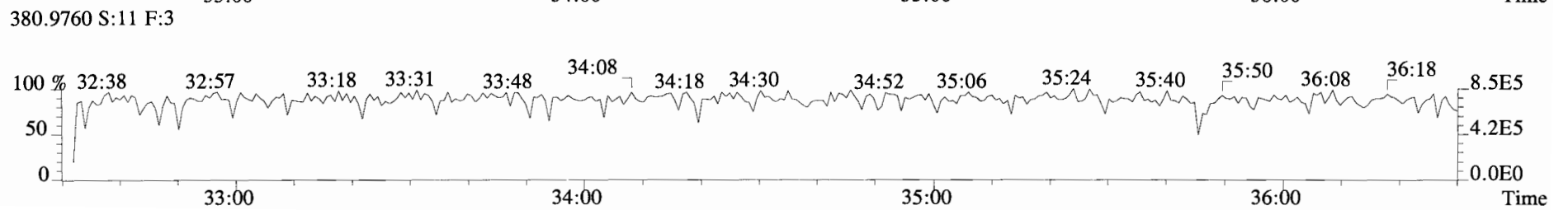
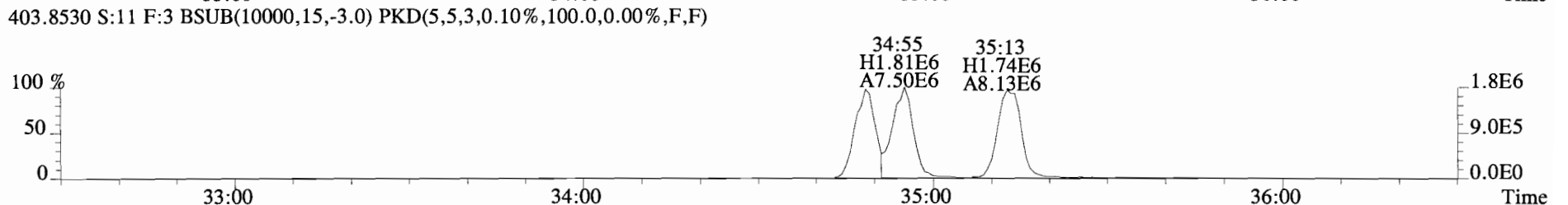
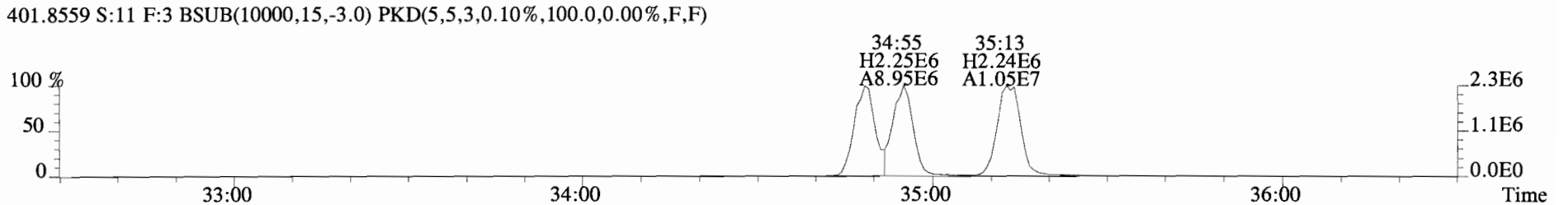
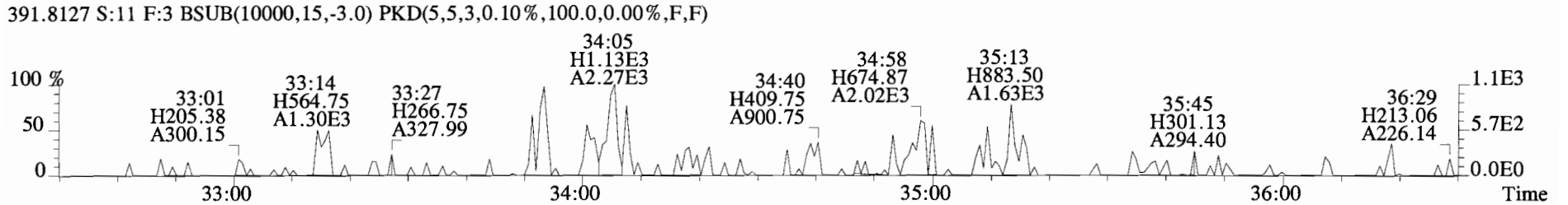
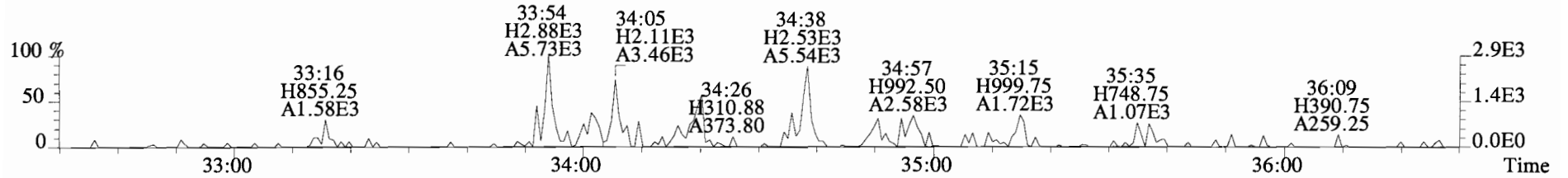
File:140909D1 #1-551 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



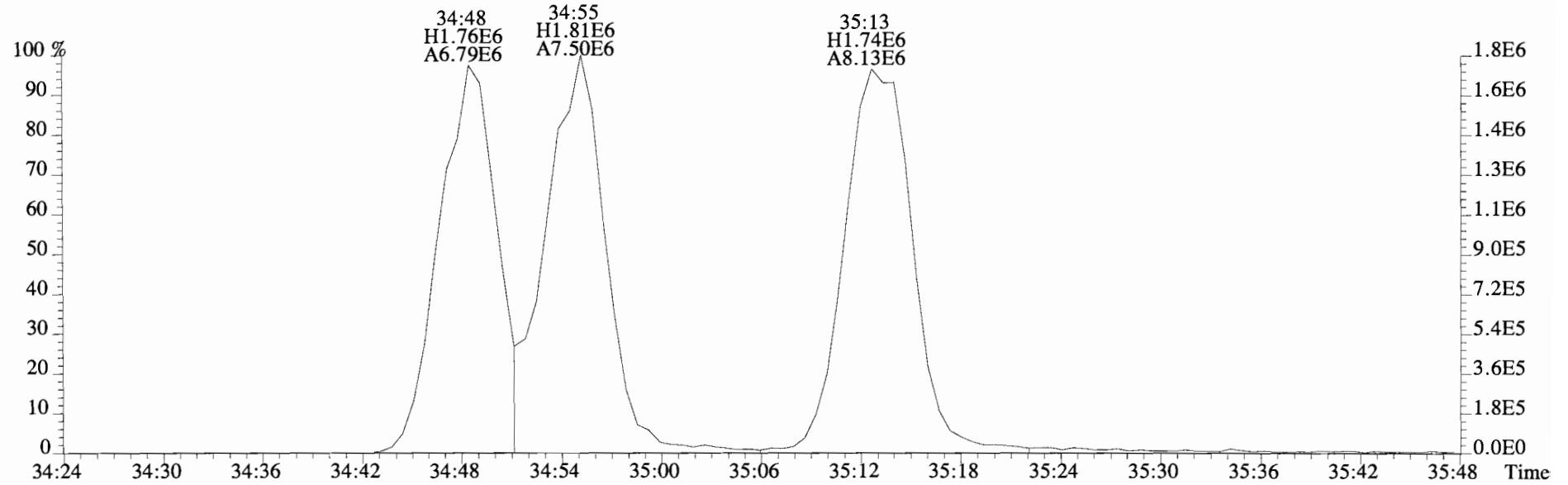
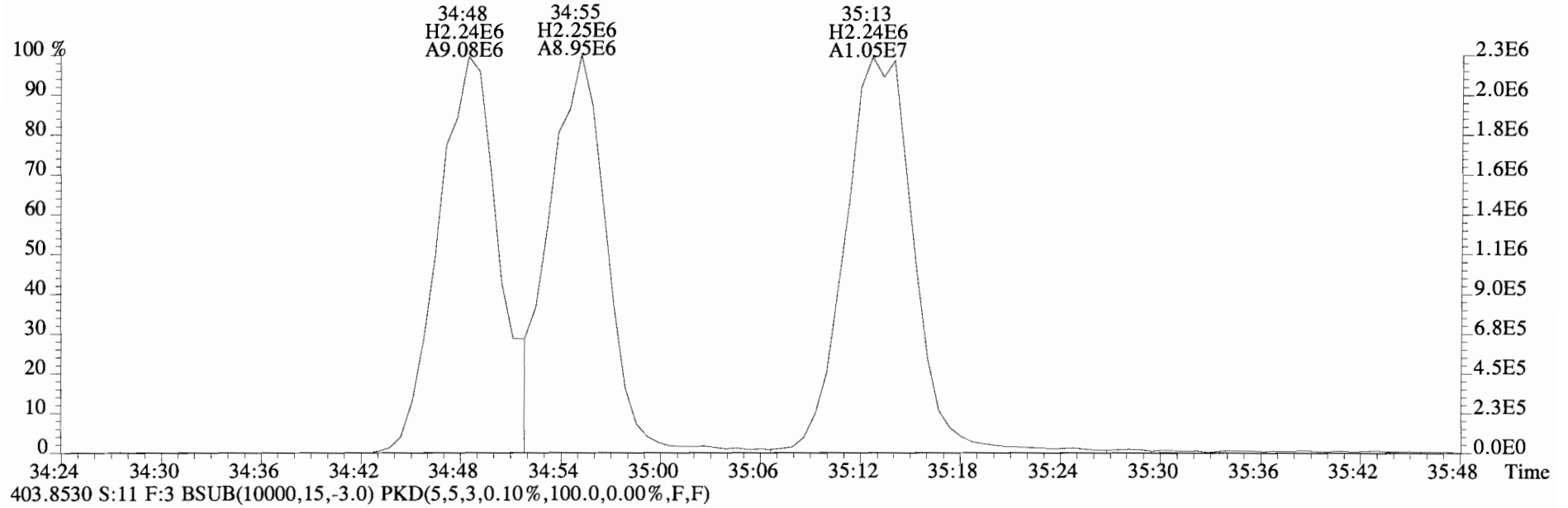
File:140909D1 #1-257 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
353.8576 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



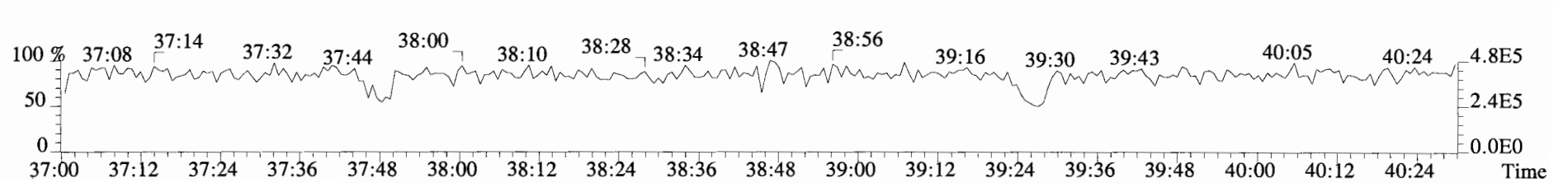
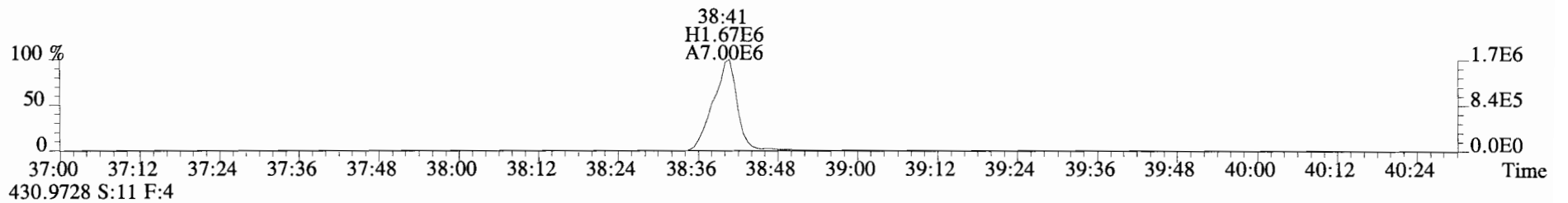
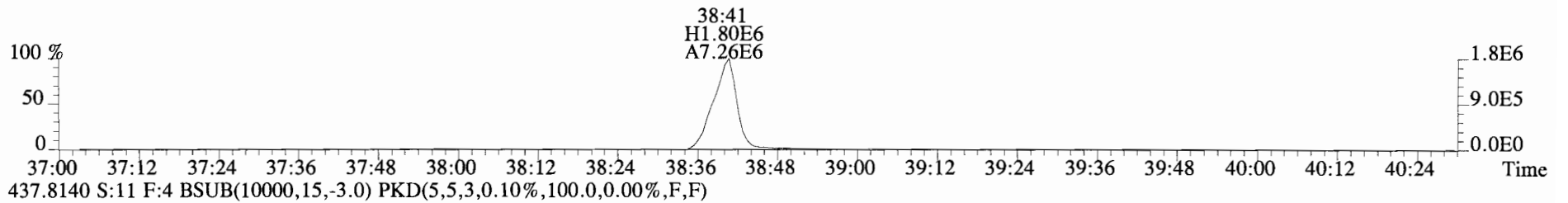
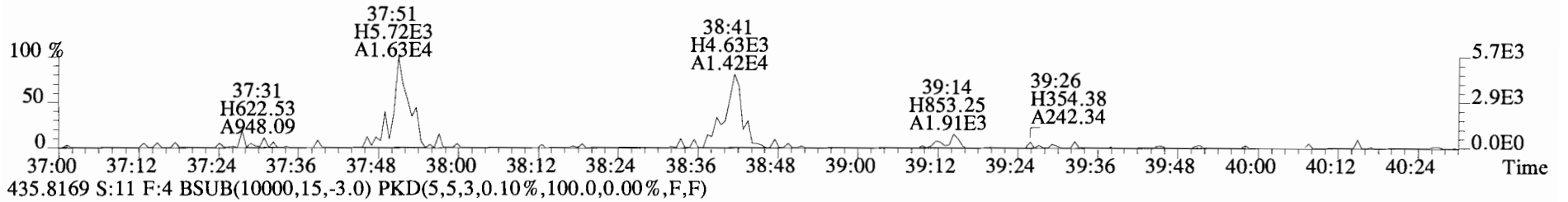
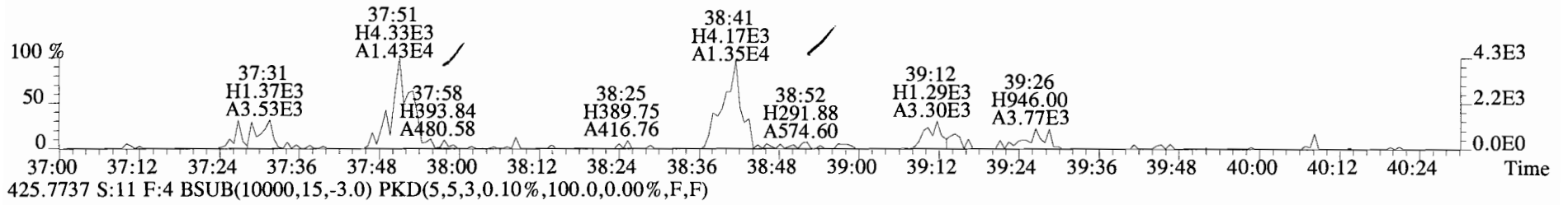
File:140909D1 #1-385 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140909D1 #1-385 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 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)

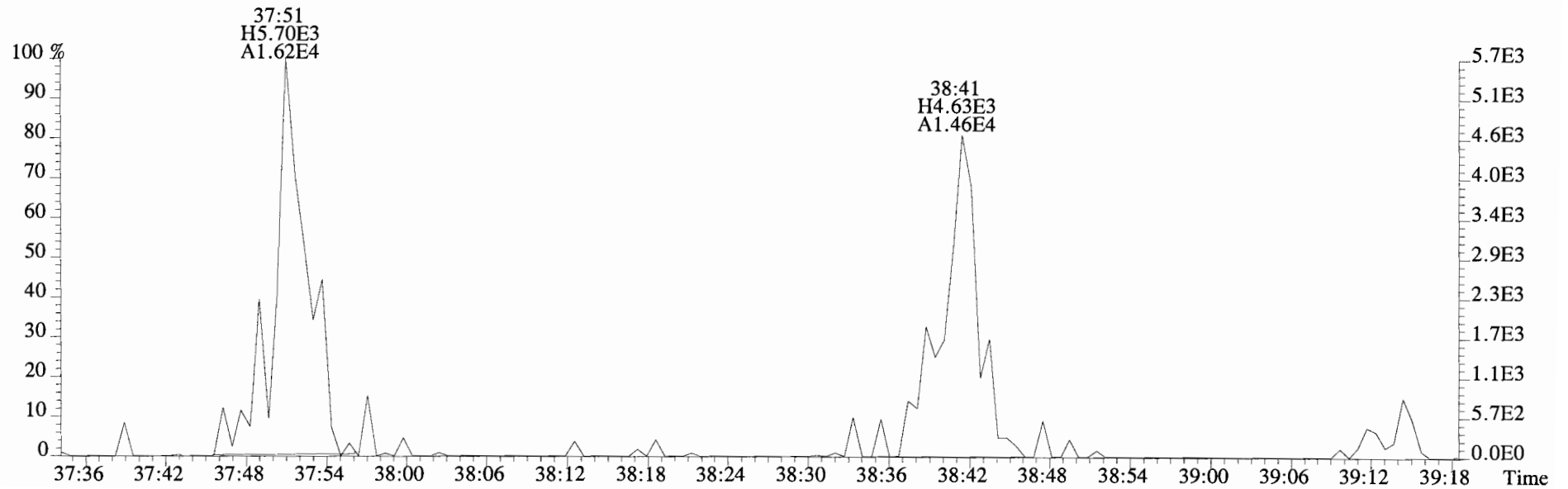
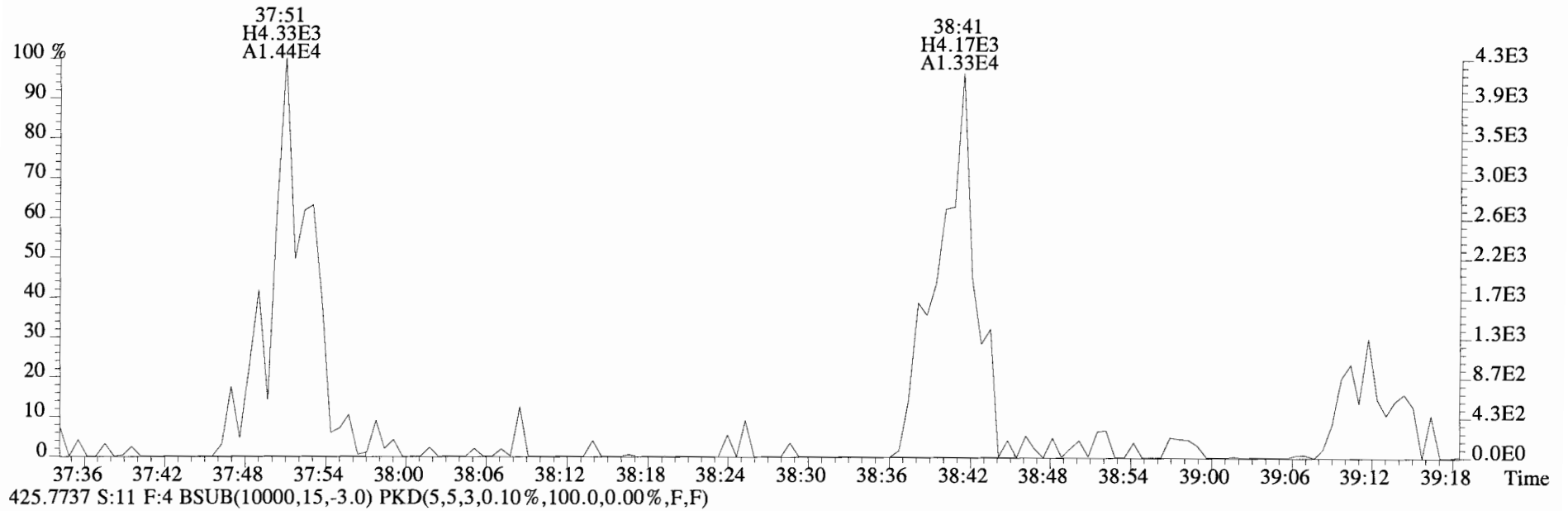


File:140909D1 #1-326 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

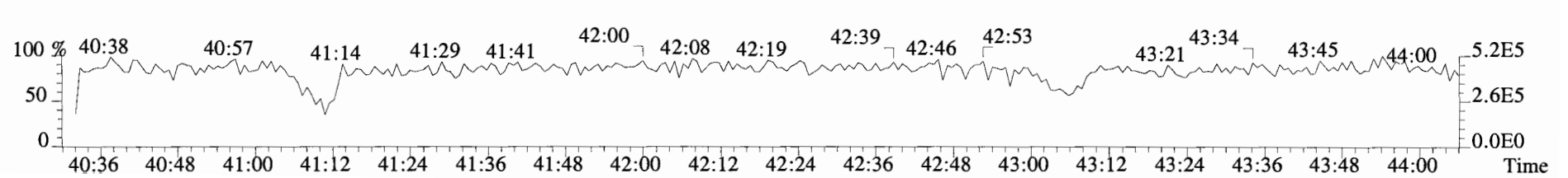
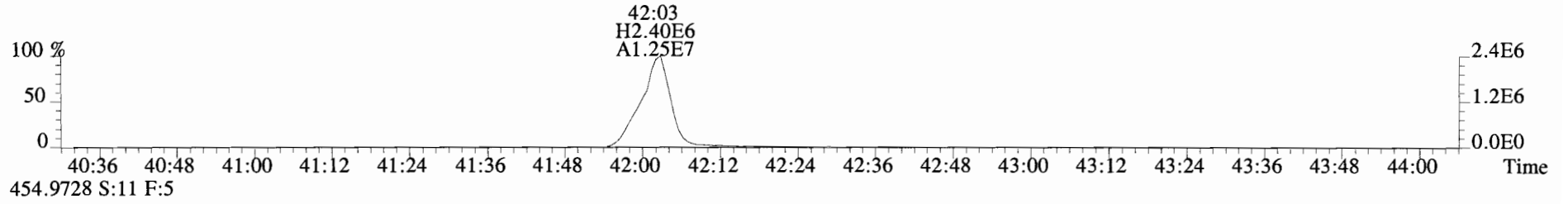
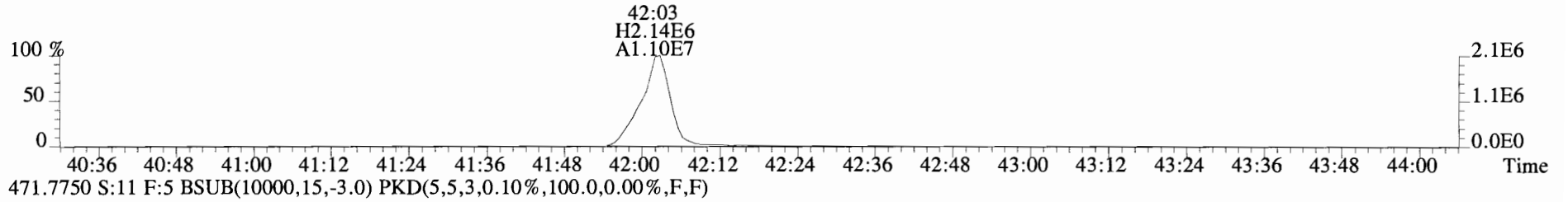
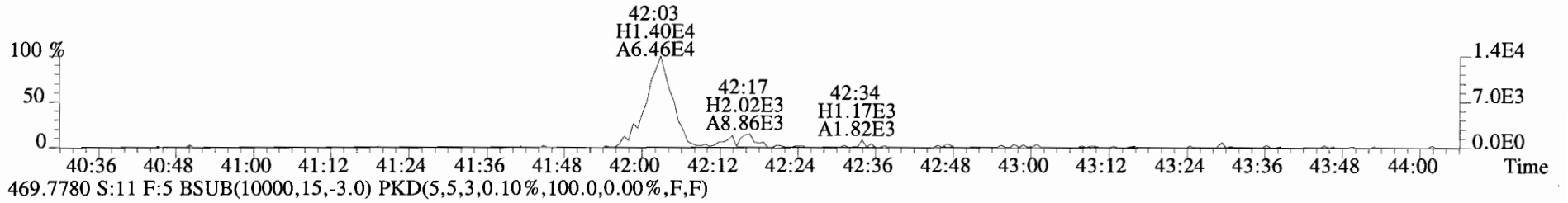
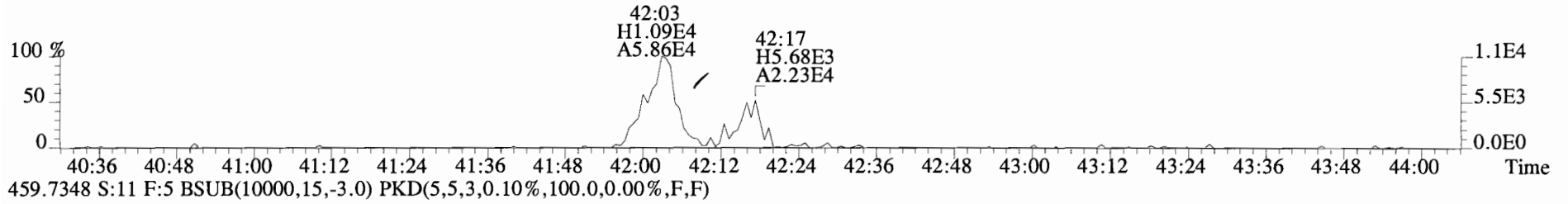




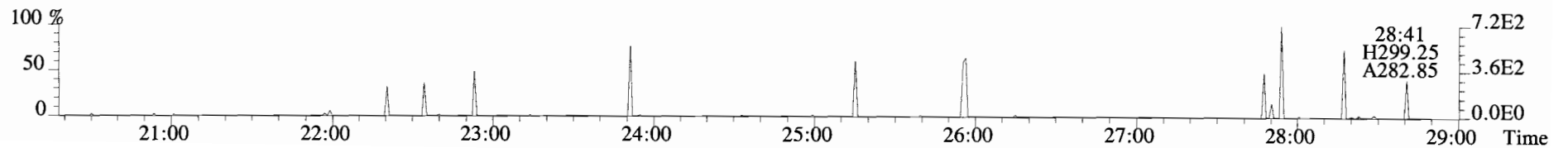
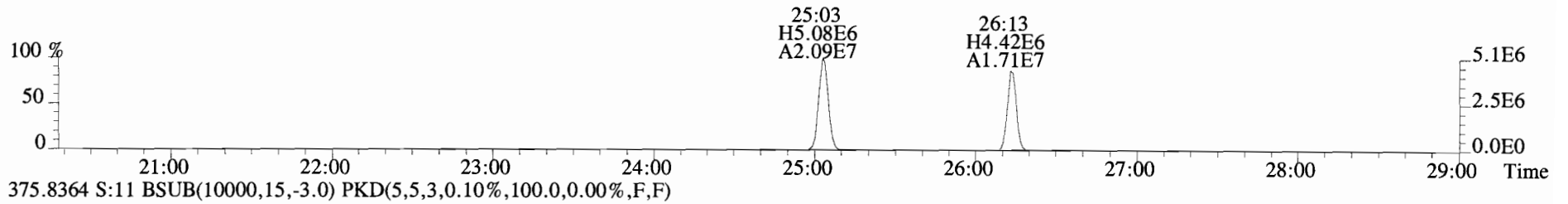
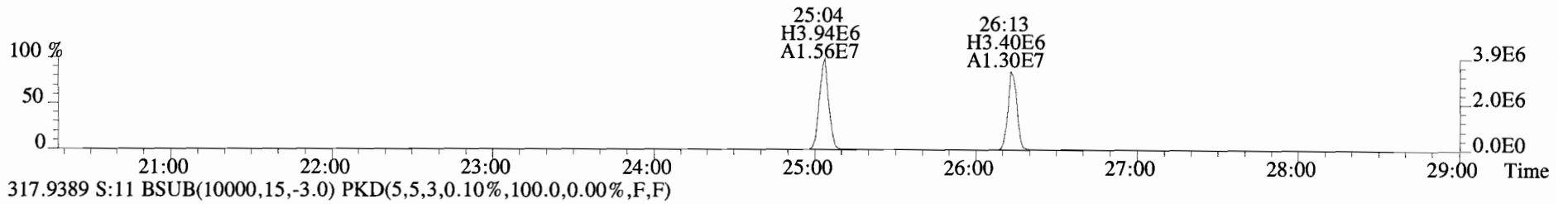
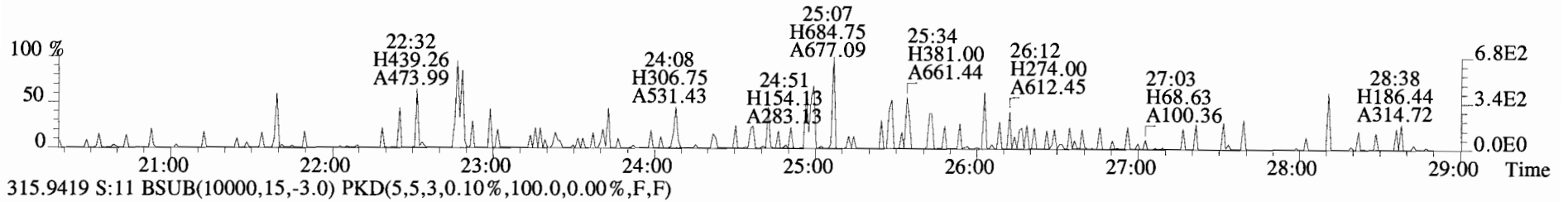
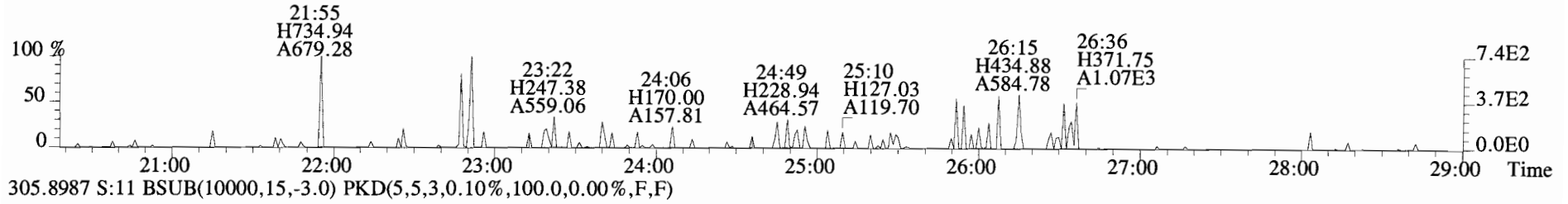
File:140909D1 #1-326 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



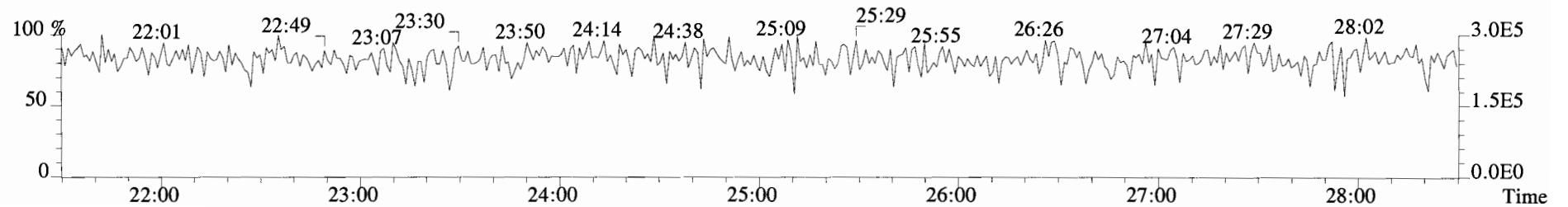
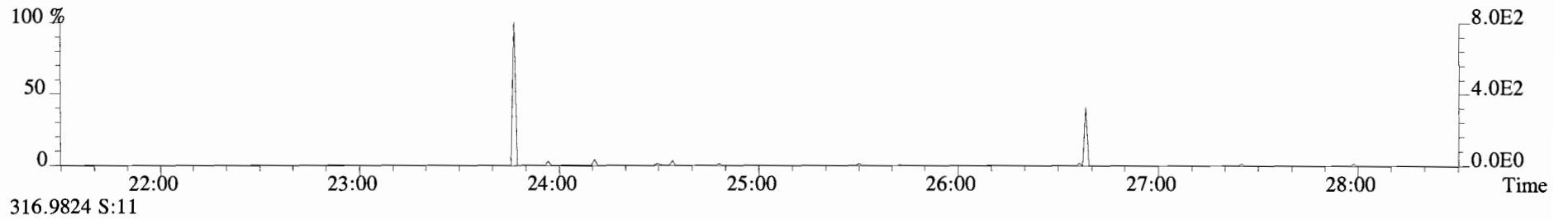
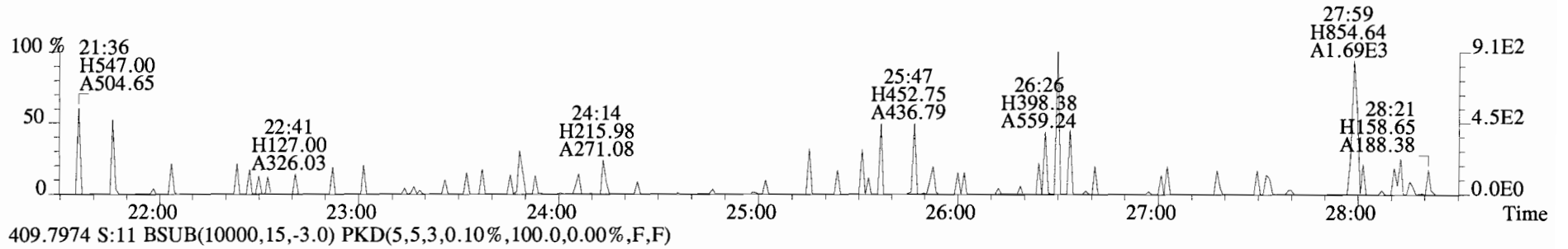
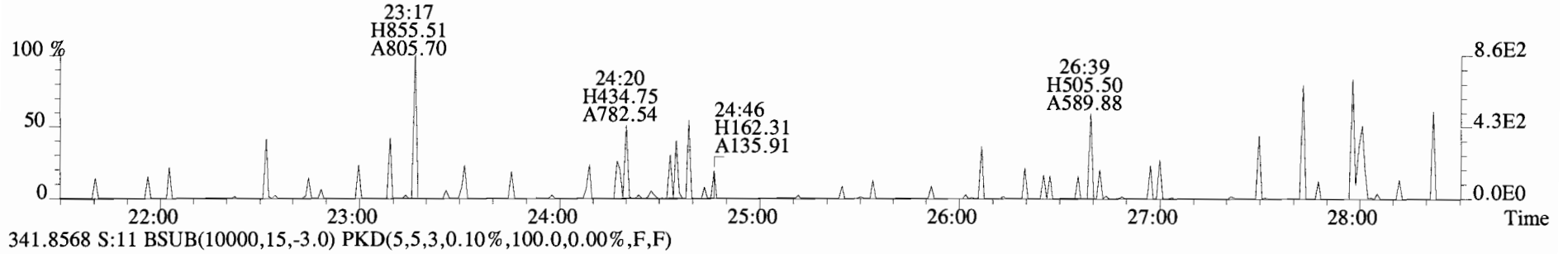
File:140909D1 #1-388 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



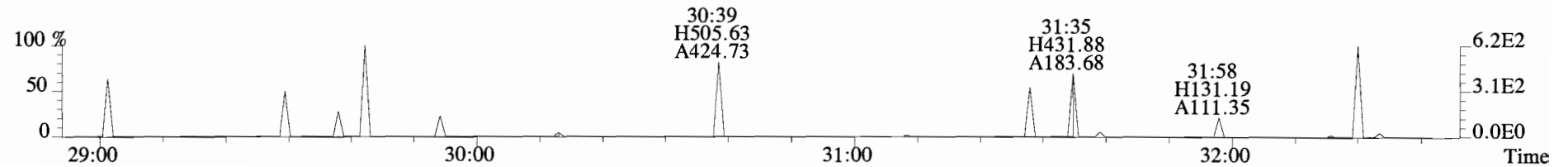
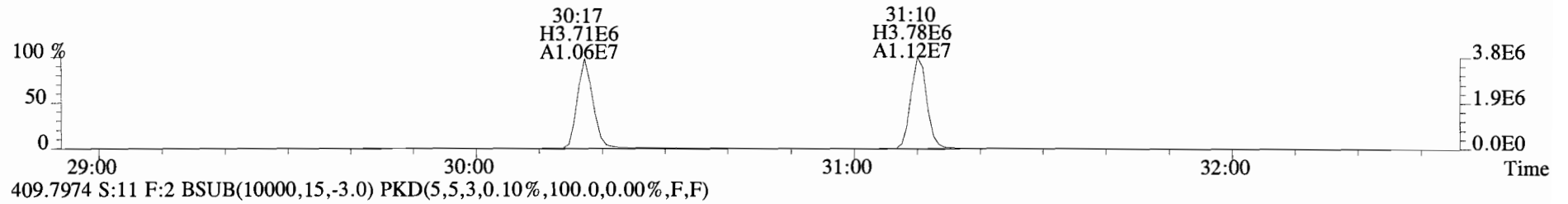
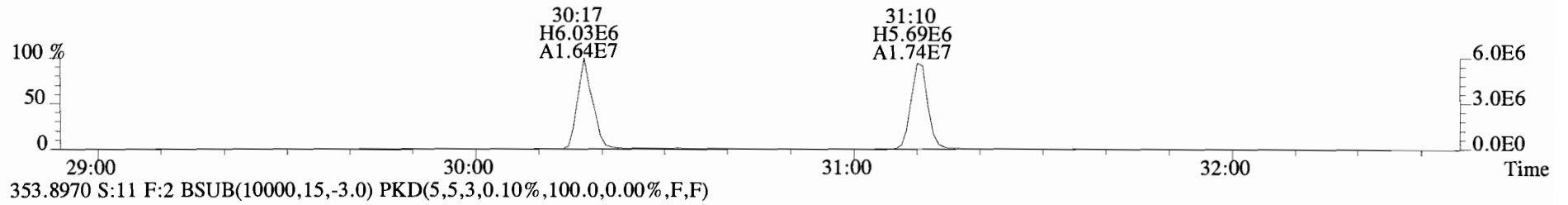
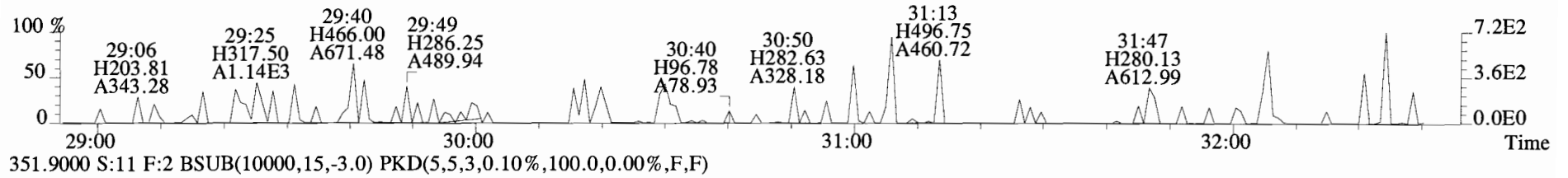
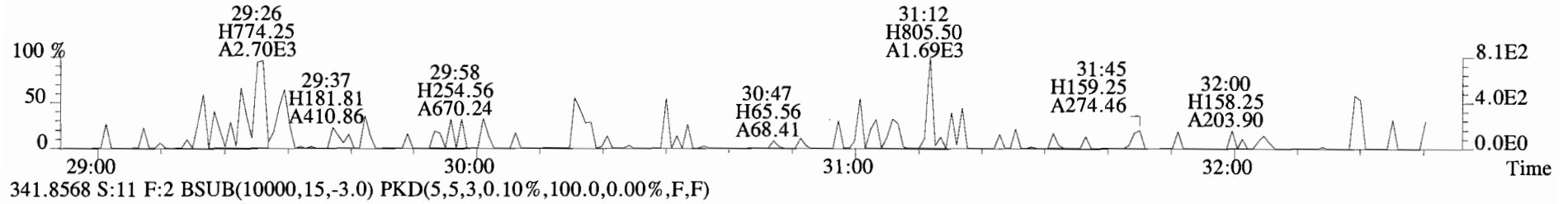
File:140909D1 #1-551 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



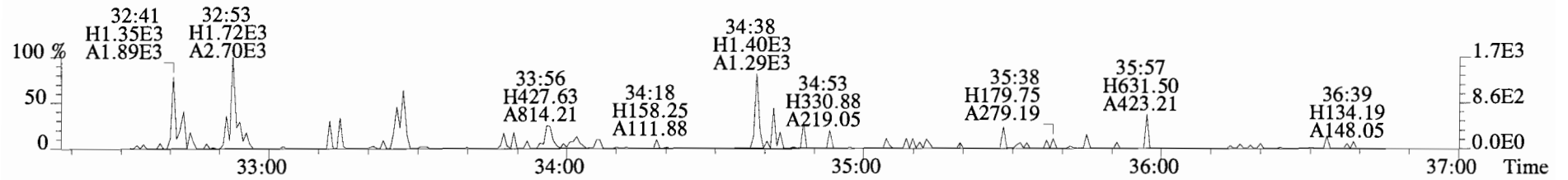
File:140909D1 #1-551 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



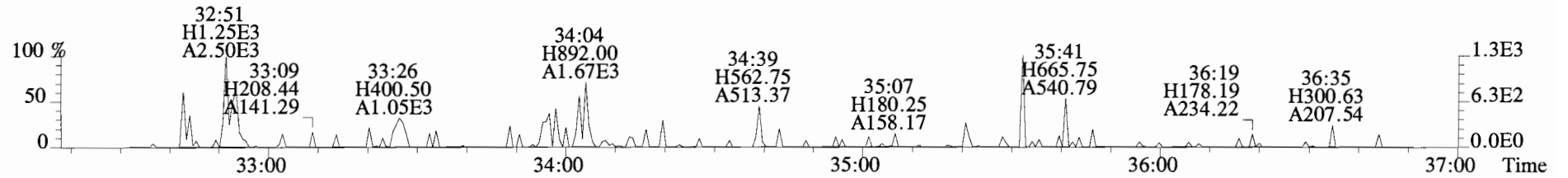
File:140909D1 #1-257 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



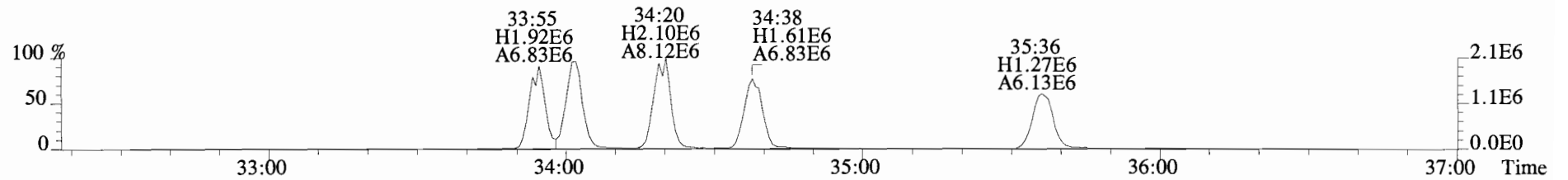
File:140909D1 #1-385 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



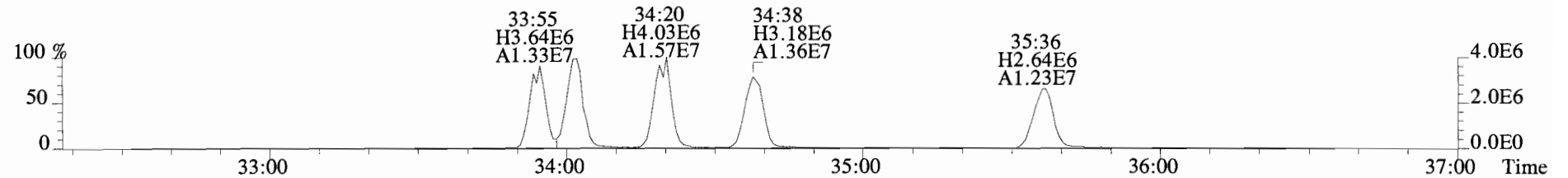
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



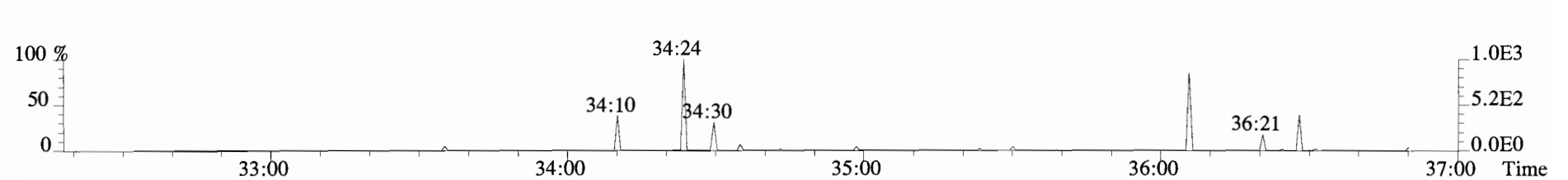
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



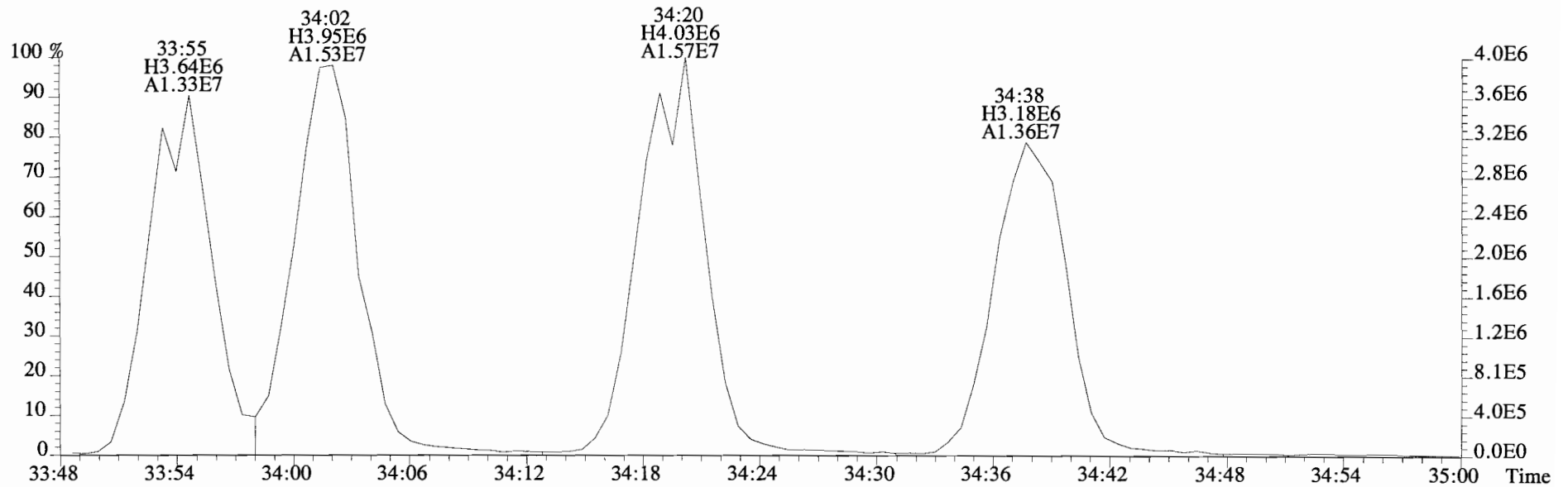
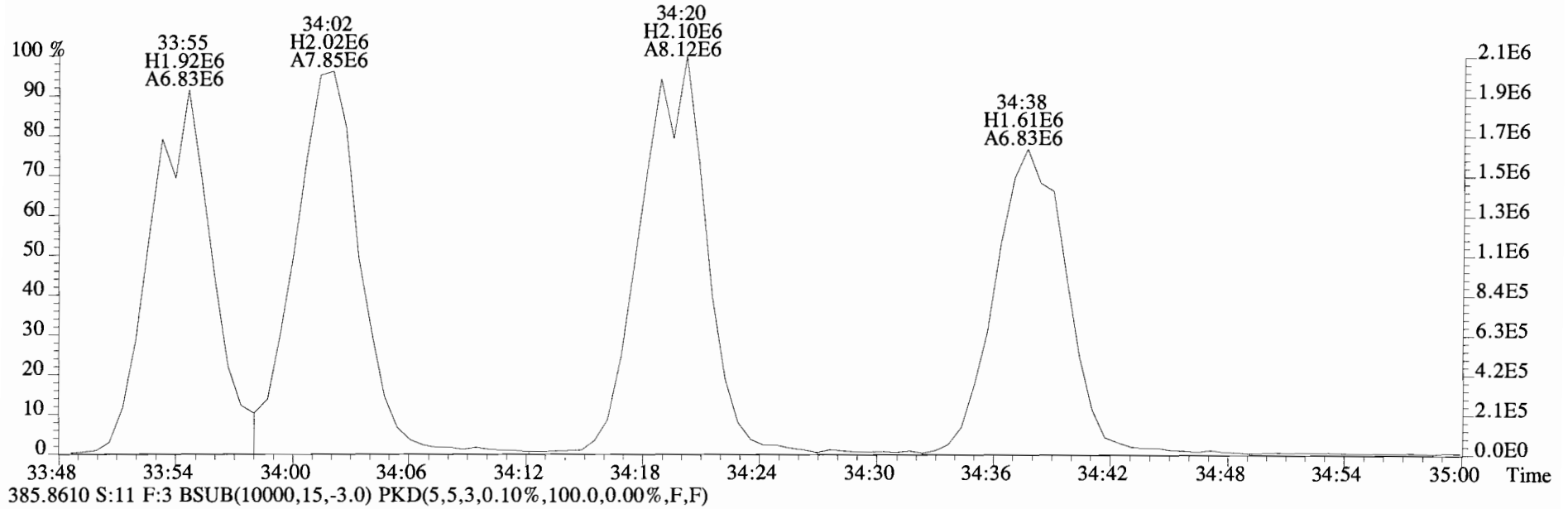
385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



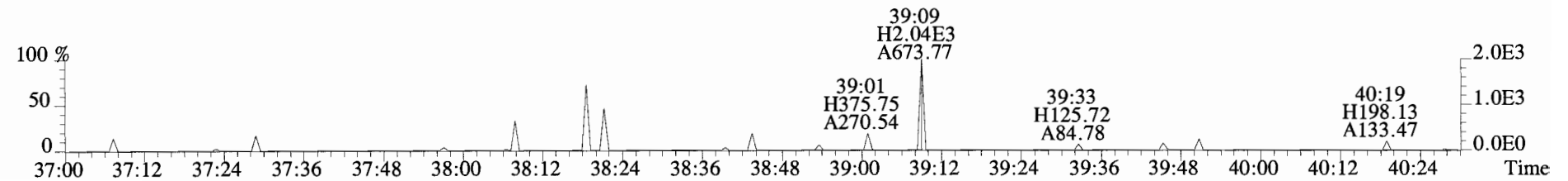
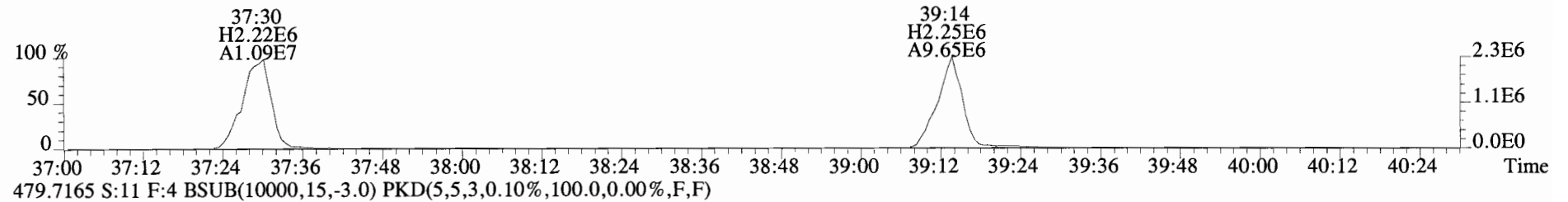
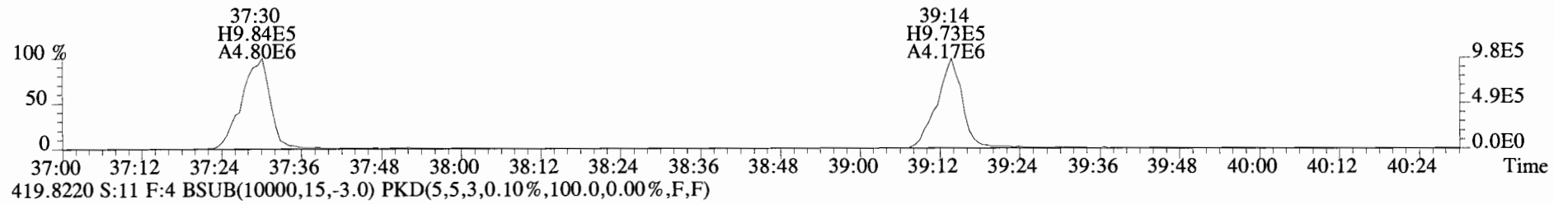
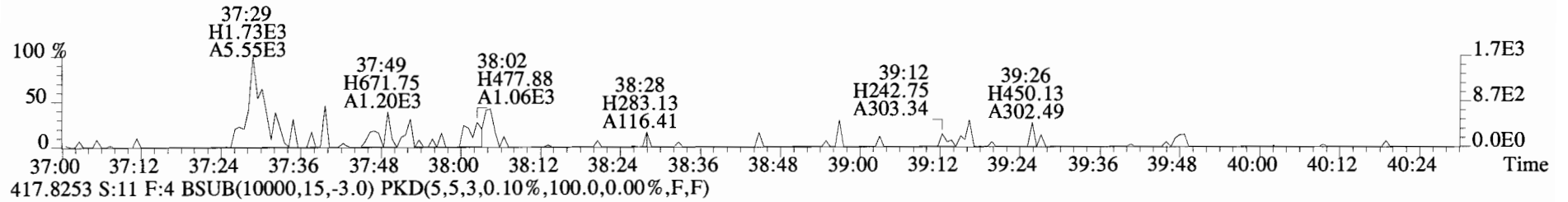
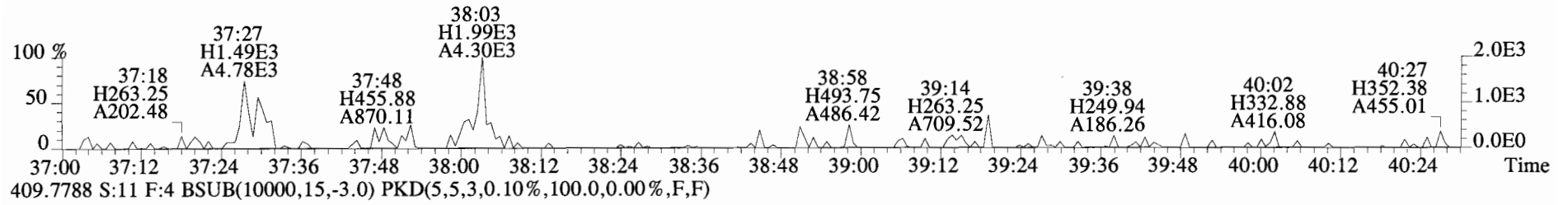
445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140909D1 #1-385 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 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)

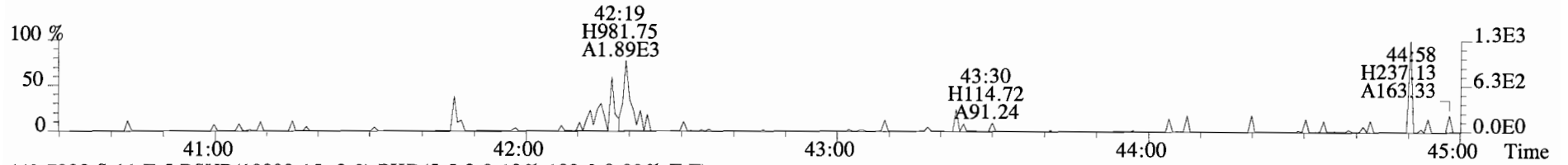


File:140909D1 #1-326 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

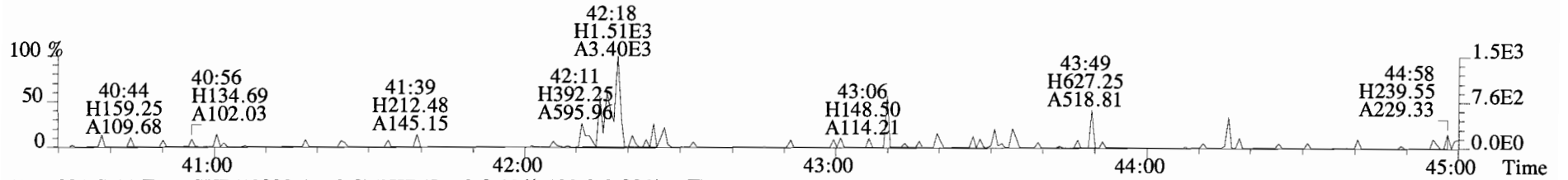




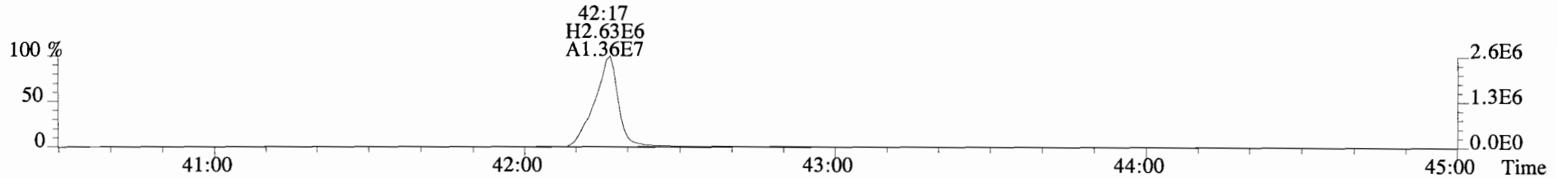
File:140909D1 #1-388 Acq: 9-SEP-2014 21:05:40 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400647-02 CS-TS-01-20140903-W 0.97269 Exp:OCDD\_DB5  
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



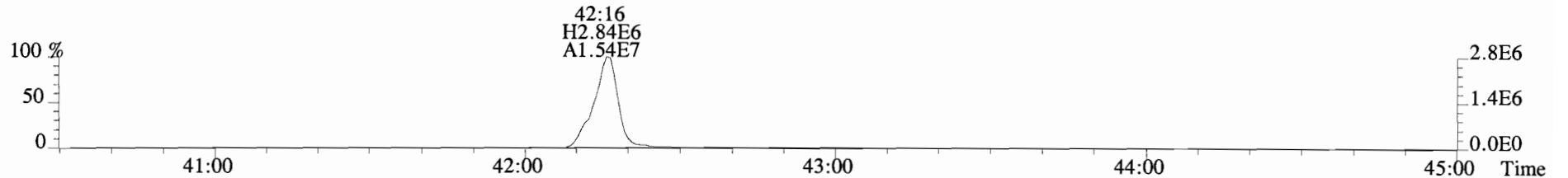
443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



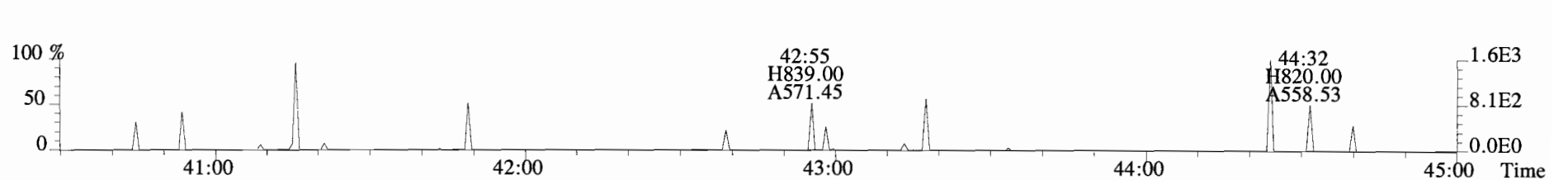
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.03	NotF $\eta$	*	*		717	2.5	0.869	Total Tetra-Dioxins	*	*		717	0.869
1,2,3,7,8-PeCDD	*	* n	0.84	NotF $\eta$	*	*		632	2.5	0.759	Total Penta-Dioxins	*	*		1110	1.34
1,2,3,4,7,8-HxCDD	*	* n	1.05	NotF $\eta$	*	*		1050	2.5	2.61	Total Hexa-Dioxins	1.73	4.70		*	*
1,2,3,6,7,8-HxCDD	*	* n	1.04	NotF $\eta$	*	*		1050	2.5	2.70	Total Hepta-Dioxins	33.4	33.4		*	*
1,2,3,7,8,9-HxCDD	*	* n	0.90	NotF $\eta$	*	*		1050	2.5	2.86	Total Tetra-Furans	*	*		668	0.696
1,2,3,4,6,7,8-HpCDD	1.27e+05	1.00 y	1.01	38:40	1.000	15.874		*	2.5	*	Total Penta-Furans	1.4339	1.4339		*	*
OCDD	7.12e+05	0.91 y	1.04	42:02	1.000	102.69		*	2.5	*	Total Hexa-Furans	0.768	2.74		*	*
											Total Hepta-Furans	6.40	6.40		*	*
2,3,7,8-TCDF	*	* n	0.91	NotF $\eta$	*	*		668	2.5	0.696						
1,2,3,7,8-PeCDF	*	* n	0.97	NotF $\eta$	*	*		649	2.5	0.965						
2,3,4,7,8-PeCDF	*	* n	0.94	NotF $\eta$	*	*		649	2.5	0.986						
1,2,3,4,7,8-HxCDF	*	* n	1.32	NotF $\eta$	*	*		545	2.5	0.507						
1,2,3,6,7,8-HxCDF	*	* n	1.18	NotF $\eta$	*	*		545	2.5	0.521						
2,3,4,6,7,8-HxCDF	*	* n	1.23	NotF $\eta$	*	*		545	2.5	0.640						
1,2,3,7,8,9-HxCDF	*	* n	1.13	NotF $\eta$	*	*		545	2.5	0.793						
1,2,3,4,6,7,8-HpCDF	4.42e+04	1.16 y	1.57	37:30	1.000	3.0833		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	NotF $\eta$	*	*		642	2.5	0.864						
OCDF	4.47e+04	0.83 y	1.05	42:16	1.000	5.4221		*	2.5	*						

											Rec	Qual
IS	13C-2,3,7,8-TCDD	2.50e+07	0.79 y	1.06	26:59	1.021	1680.9				84.9	
IS	13C-1,2,3,7,8-PeCDD	2.45e+07	0.63 y	1.08	31:27	1.190	1618.9				81.8	
IS	13C-1,2,3,4,7,8-HxCDD	1.74e+07	1.28 y	0.74	34:48	1.014	1759.8				88.9	
IS	13C-1,2,3,6,7,8-HxCDD	1.75e+07	1.25 y	0.75	34:55	1.017	1758.3				88.8	
IS	13C-1,2,3,7,8,9-HxCDD	2.02e+07	1.23 y	0.89	35:13	1.026	1702.6				86.0	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.57e+07	1.07 y	0.70	38:40	1.127	1676.1				84.7	
IS	13C-OCDD	2.63e+07	0.89 y	0.59	42:02	1.225	3359.8				84.9	
IS	13C-2,3,7,8-TCDF	3.25e+07	0.73 y	0.97	26:13	0.992	1647.8				83.2	
IS	13C-1,2,3,7,8-PeCDF	2.72e+07	1.54 y	0.99	30:17	1.146	1346.1				68.0	
IS	13C-2,3,4,7,8-PeCDF	2.86e+07	1.56 y	1.01	31:10	1.179	1393.0				70.4	
IS	13C-1,2,3,4,7,8-HxCDF	2.18e+07	0.51 y	0.94	33:54	0.988	1741.7				88.0	
IS	13C-1,2,3,6,7,8-HxCDF	2.44e+07	0.51 y	1.23	34:02	0.992	1491.2				75.3	
IS	13C-2,3,4,6,7,8-HxCDF	2.20e+07	0.51 y	1.03	34:38	1.009	1597.6				80.7	
IS	13C-1,2,3,7,8,9-HxCDF	2.07e+07	0.50 y	0.89	35:37	1.038	1761.8				89.0	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.80e+07	0.45 y	0.71	37:29	1.092	1919.2				96.9	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.51e+07	0.42 y	0.64	39:13	1.143	1769.2				89.4	
IS	13C-OCDF	3.10e+07	0.88 y	0.76	42:15	1.231	3073.2				77.6	

C/Up	37C1-2,3,7,8-TCDD	1.09e+07		1.04	27:00	1.021	748.38				94.5	
RS/RT	13C-1,2,3,4-TCDD	2.76e+07	0.79 y	1.00	26:27	*	1979.6					
RS	13C-1,2,3,4-TCDF	4.04e+07	0.76 y	1.00	25:03	*	1979.6					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.63e+07	0.51 y	1.00	34:19	*	1979.6					

Integrations  
 by  
 Analyst: ms  
 Date: 9/10/14

Reviewed  
 by  
 Analyst: MP  
 Date: 9/10/14

Totals class: HxCDD EMPC

Entry #: 23

Run: 13 File: 140909D1 S: 12 I: 1 F: 3

Acquired: 9-SEP-14 21:53:55 Processed: 10-SEP-14 09:25:39

Total Concentration: 4.7000

Unnamed Concentration: 4.700

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
33:15	9.047e+03	6.786e+03	1.33 y	1.583e+04	1.7280
34:04	2.201e+04	1.216e+04	1.81 n	2.723e+04	2.9720

Totals class: HpCDD EMPC

Entry #: 25

Run: 13 File: 140909D1 S: 12 I: 1 F: 4

Acquired: 9-SEP-14 21:53:55 Processed: 10-SEP-14 09:25:39

Total Concentration: 33.367

Unnamed Concentration: 17.492

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:51	7.189e+04	6.780e+04	1.06 y	1.397e+05	17.492	
38:40	6.346e+04	6.330e+04	1.00 y	1.268e+05	15.874	1,2,3,4,6,7,8-HpCDD

Totals class: 1st Func. PeCDF EMPC                      Entry #: 29

Run: 13                      File: 140909D1                      S: 12 I: 1 F: 1  
Acquired: 9-SEP-14 21:53:55                      Processed: 10-SEP-14 09:25:39

Total Concentration: 1.4339                      Unnamed Concentration: 1.434

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
27:58	1.195e+04	7.327e+03	1.63 y	1.928e+04	1.4339

Totals class: HxCDF EMPC

Entry #: 33

Run: 13 File: 140909D1 S: 12 I: 1 F: 3  
Acquired: 9-SEP-14 21:53:55 Processed: 10-SEP-14 09:25:39

Total Concentration: 2.7440

Unnamed Concentration: 2.744

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
32:52	1.822e+04	1.199e+04	1.52 n	2.686e+04	1.9758
33:26	5.557e+03	4.885e+03	1.14 y	1.044e+04	0.76818

Totals class: HpCDF EMPC

Entry #: 35

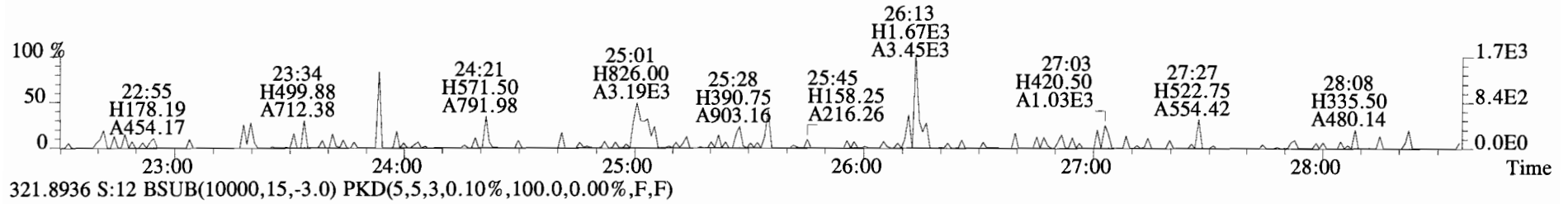
Run: 13 File: 140909D1 S: 12 I: 1 F: 4  
Acquired: 9-SEP-14 21:53:55 Processed: 10-SEP-14 09:25:39

Total Concentration: 6.4037

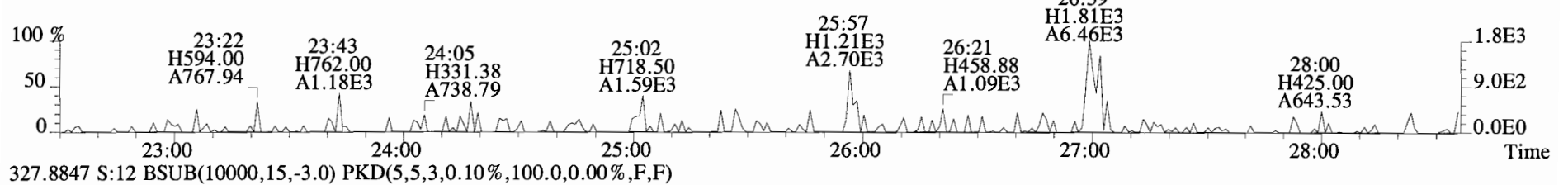
Unnamed Concentration: 3.320

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:30	2.372e+04	2.043e+04	1.16 y	4.416e+04	3.0833	1,2,3,4,6,7,8-HpCDF
38:02	2.290e+04	1.988e+04	1.15 y	4.278e+04	3.3204	

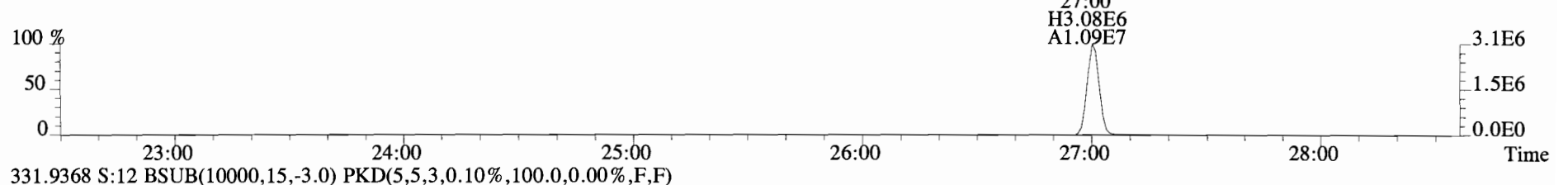
File:140909D1 #1-551 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



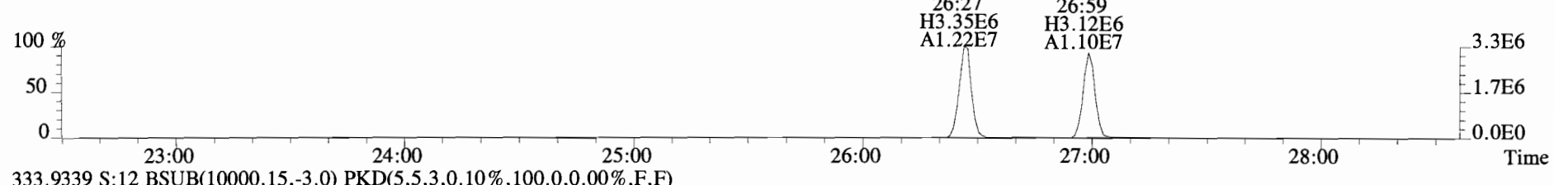
321.8936 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



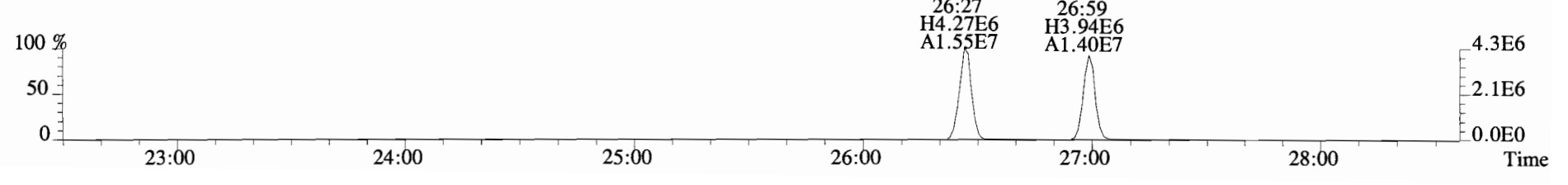
327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



331.9368 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

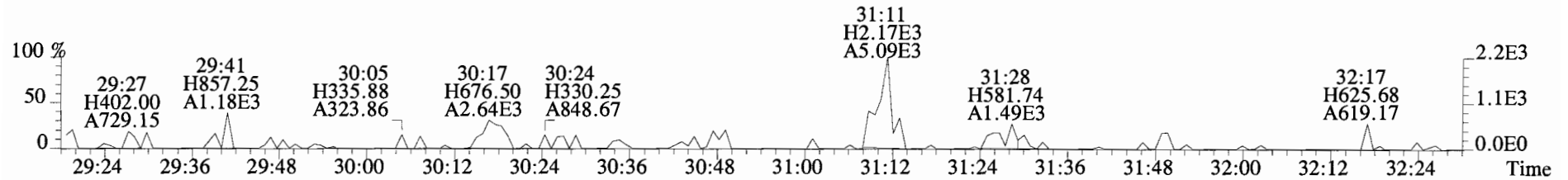


333.9339 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

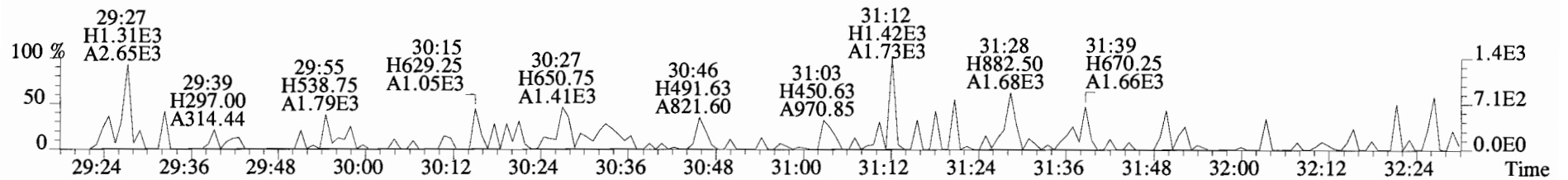




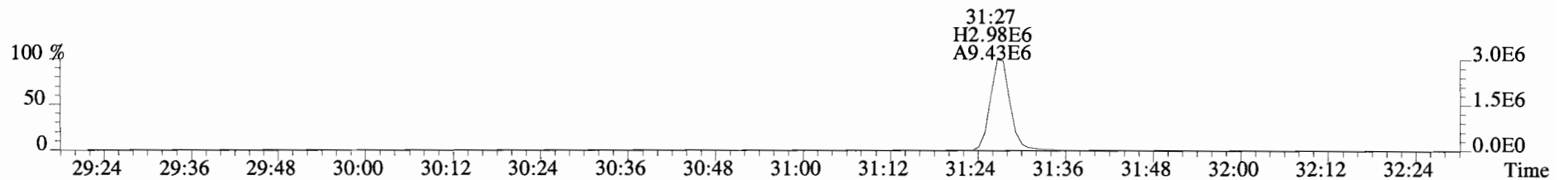
File:140909D1 #1-257 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
353.8576 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



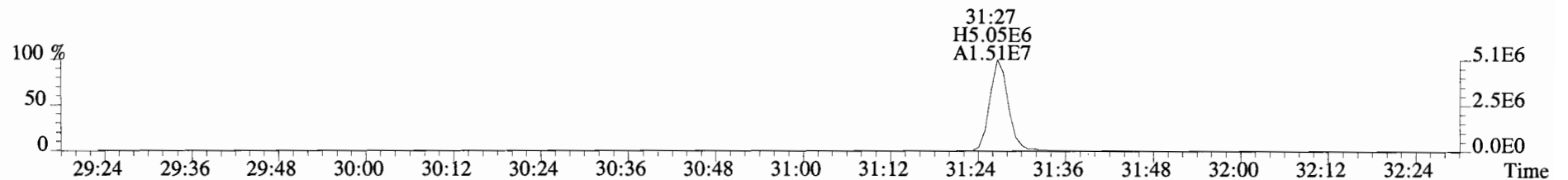
355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



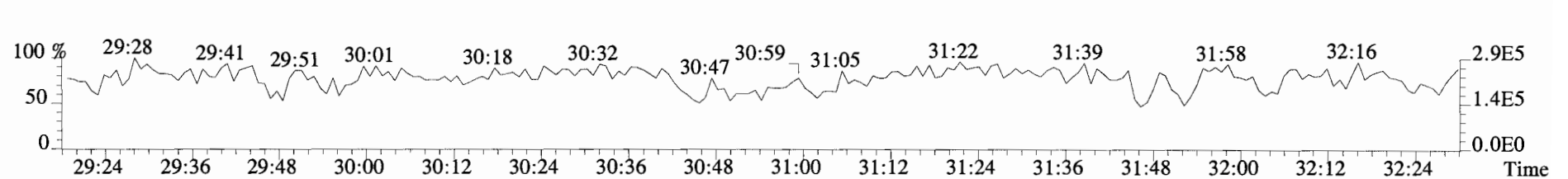
365.8978 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



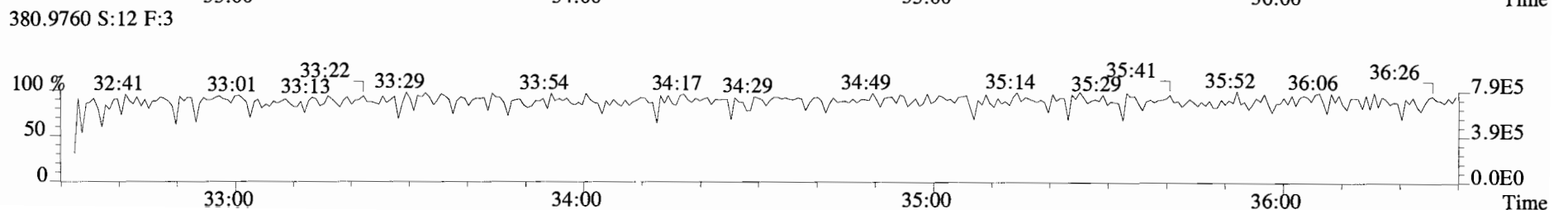
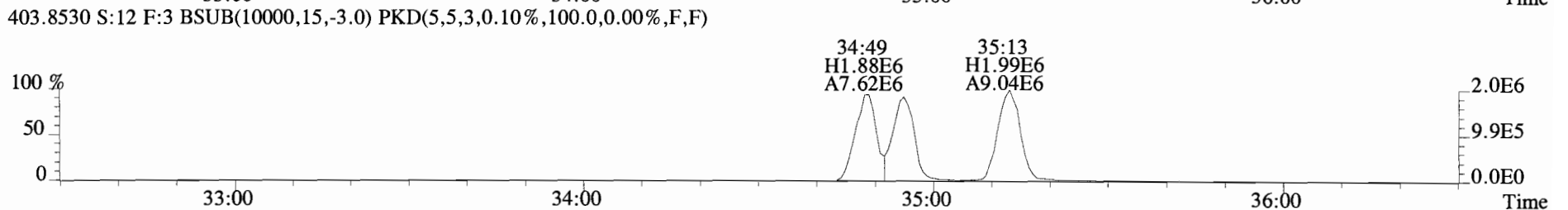
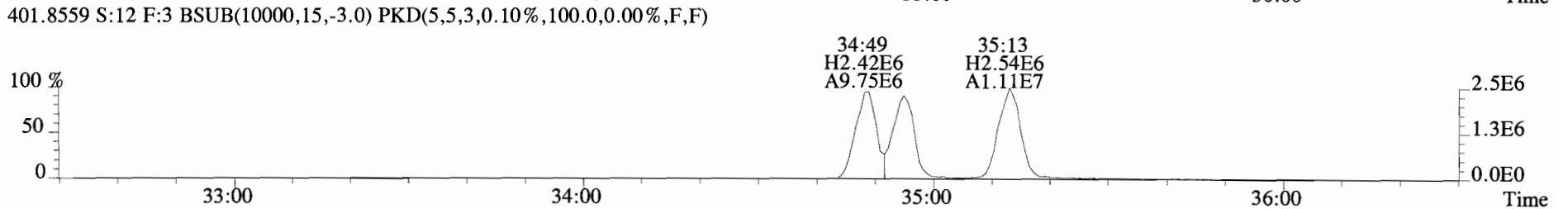
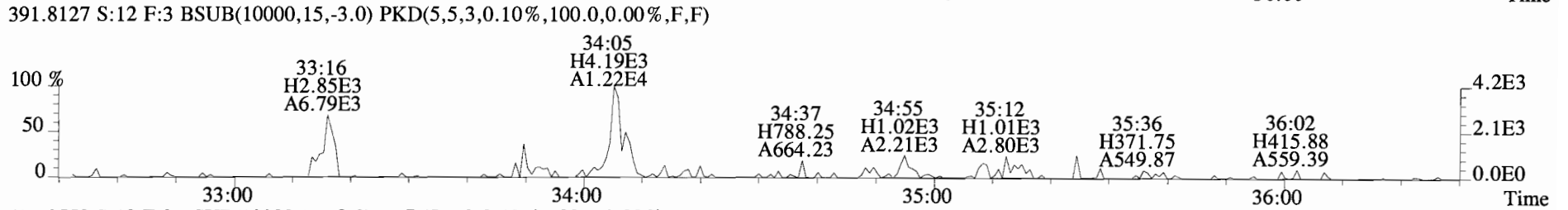
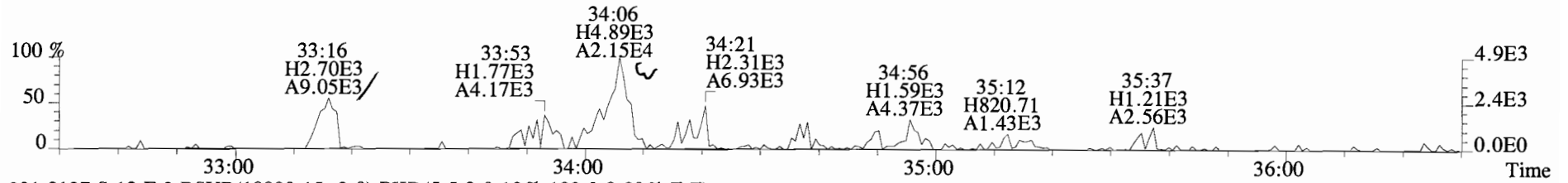
367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



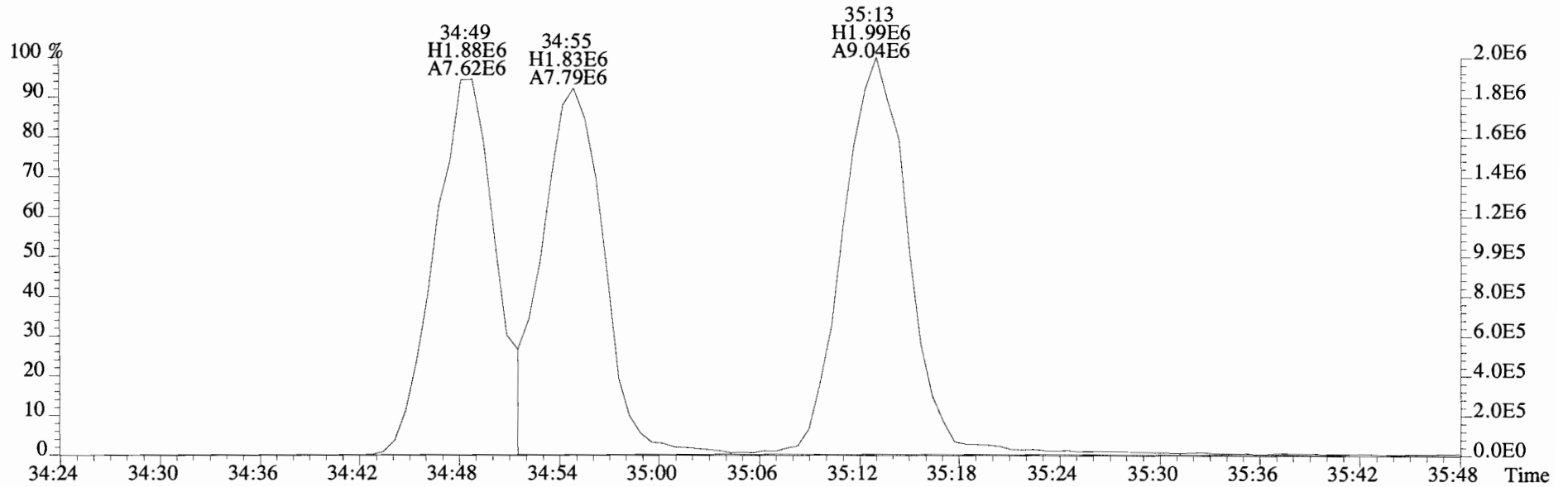
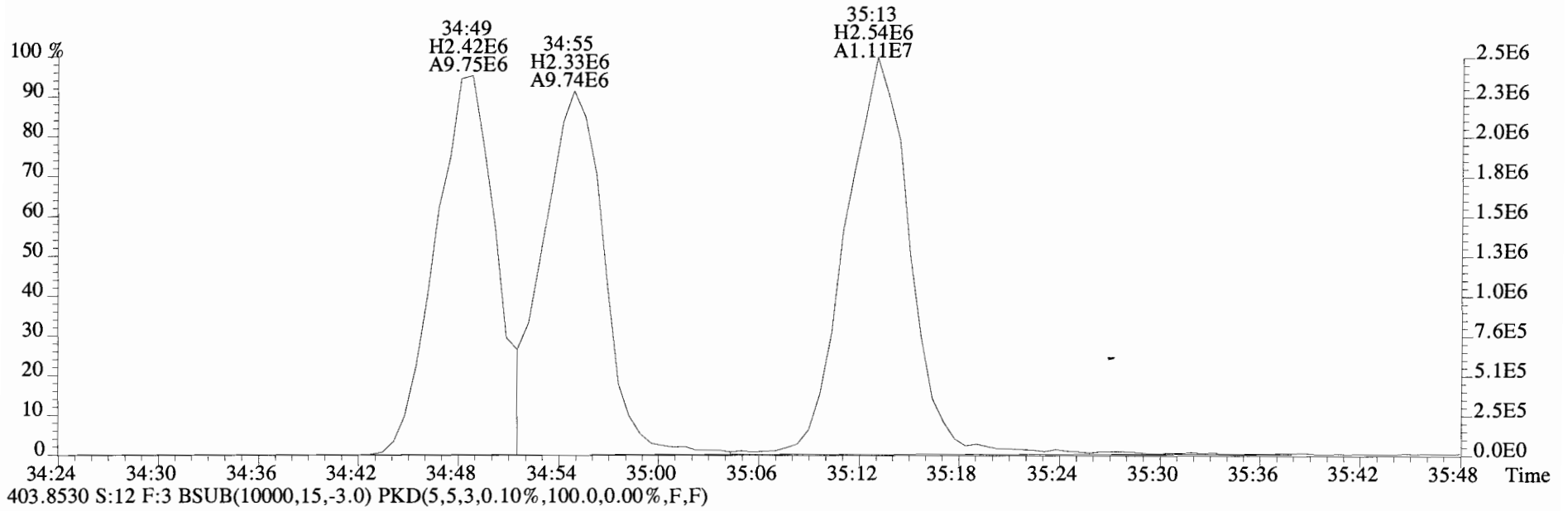
366.9792 S:12 F:2



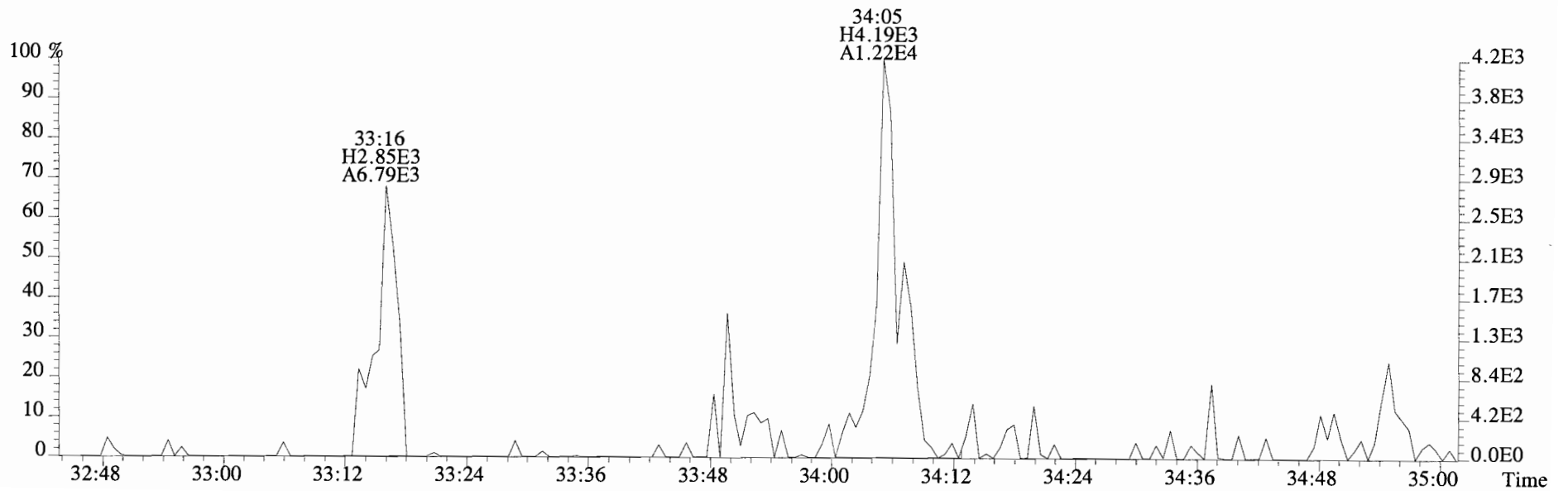
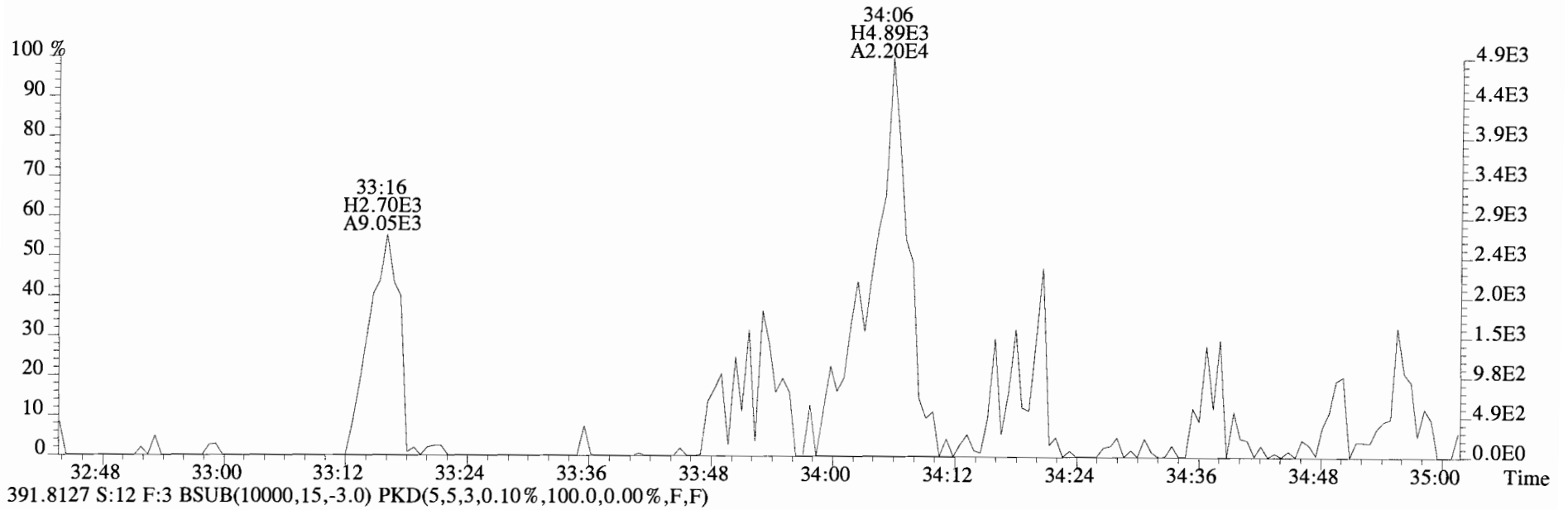
File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



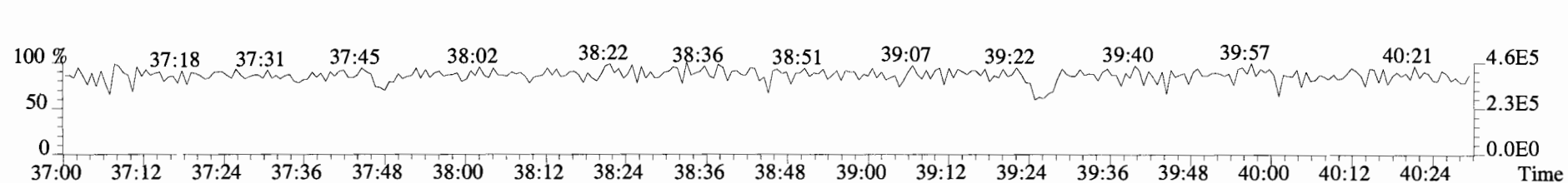
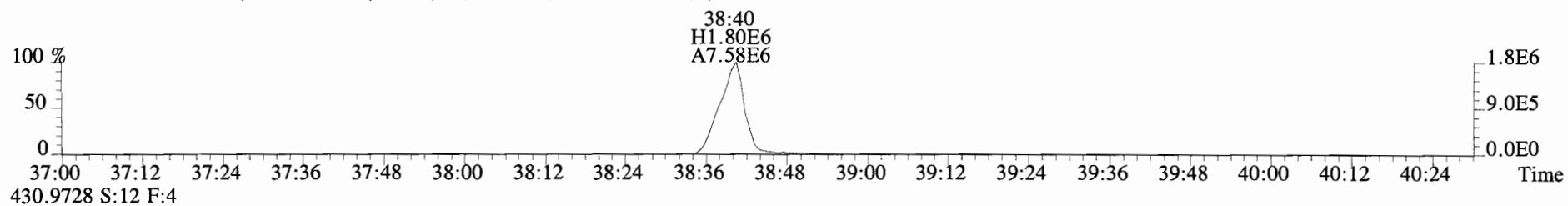
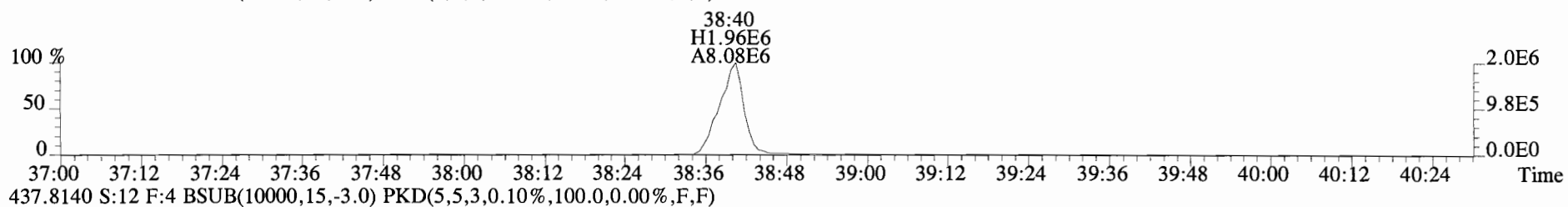
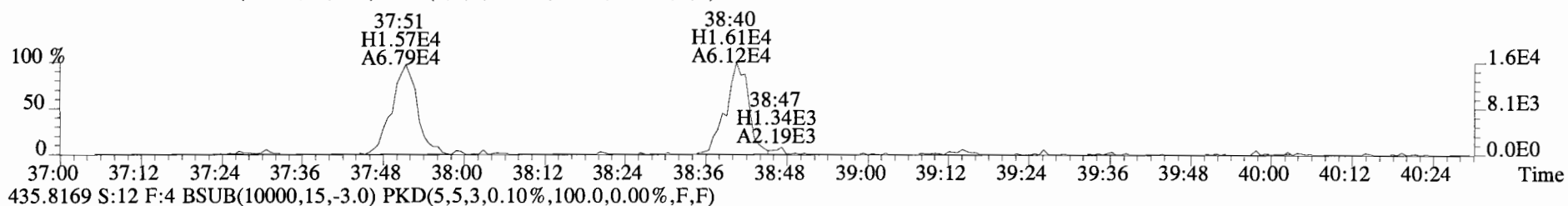
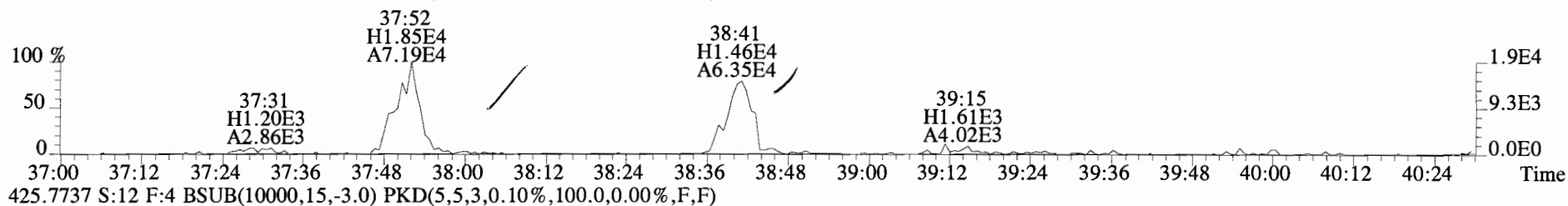
File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



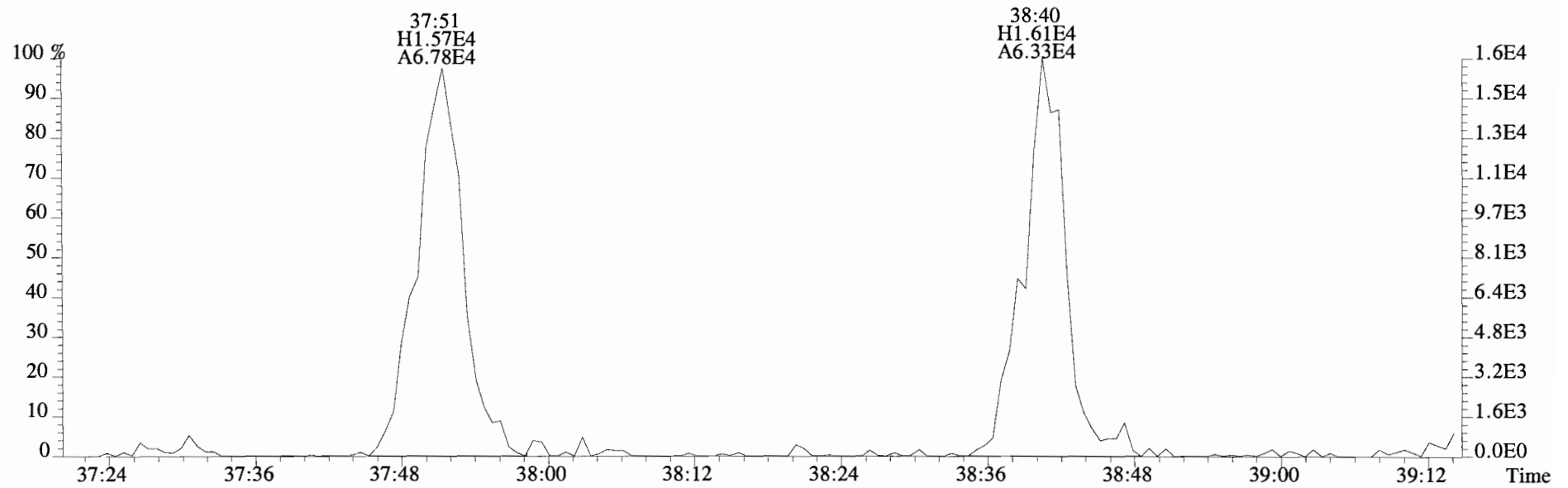
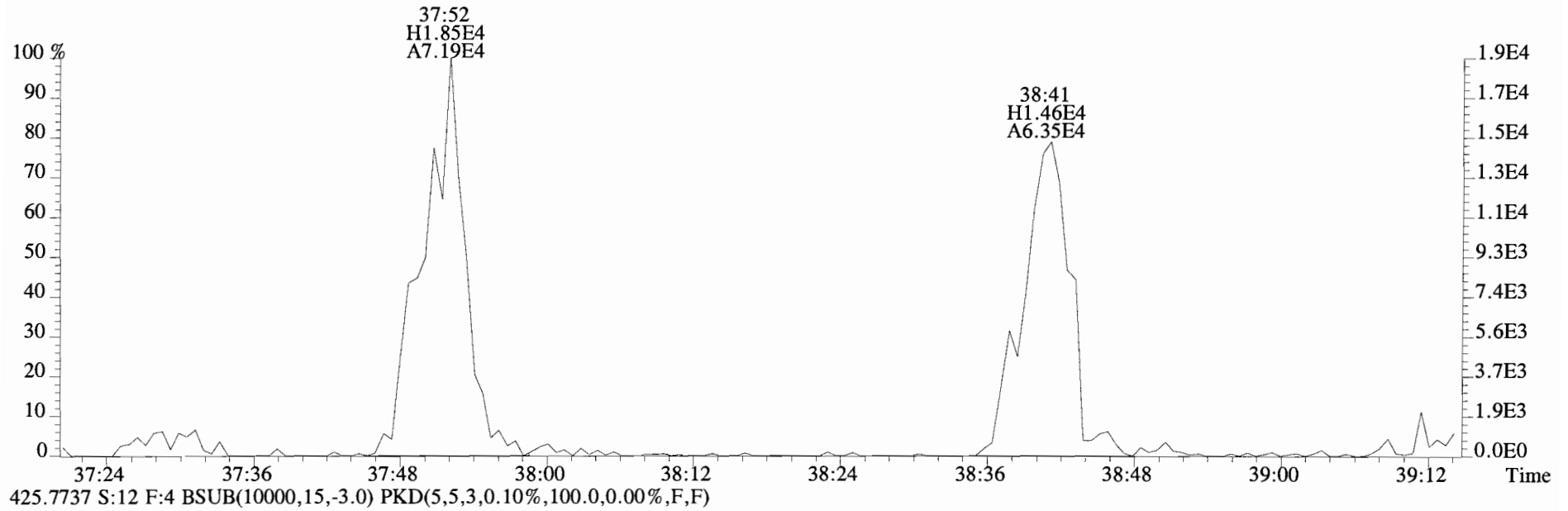
File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text: Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



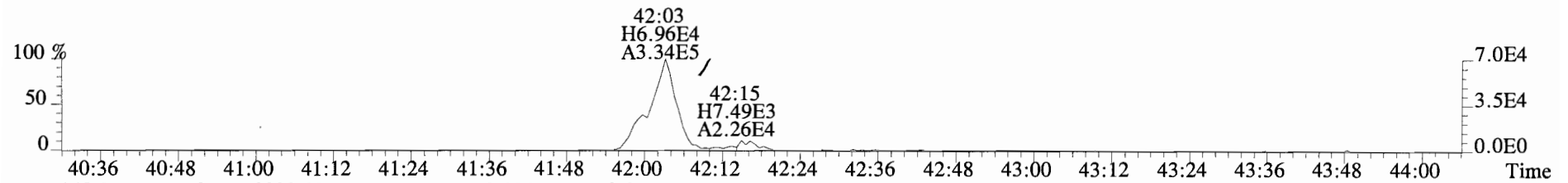
File:140909D1 #1-325 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



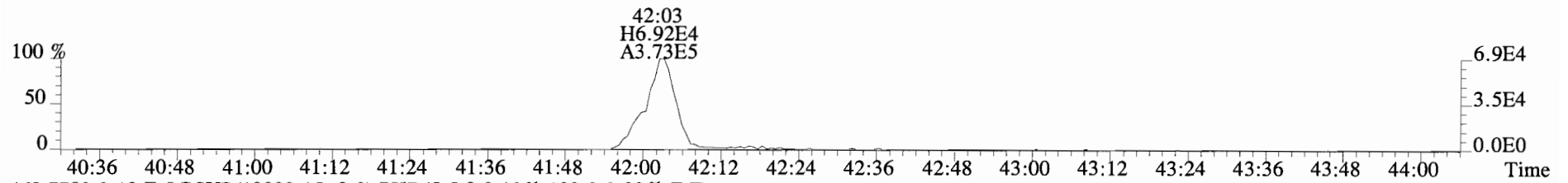
File:140909D1 #1-325 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text: Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



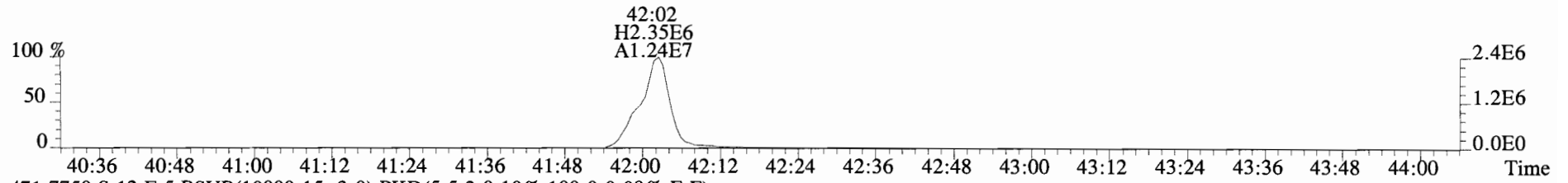
File:140909D1 #1-389 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



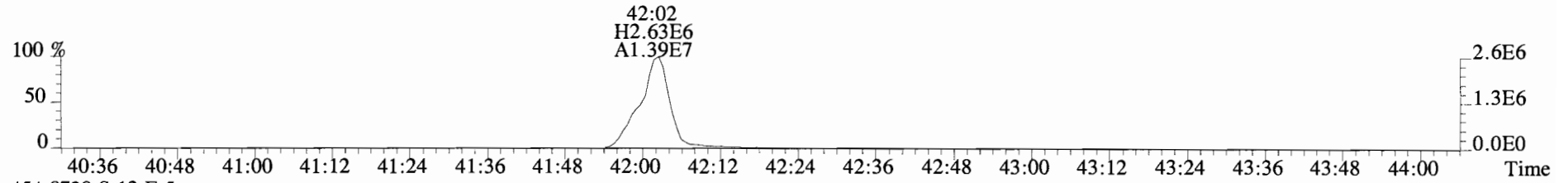
459.7348 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



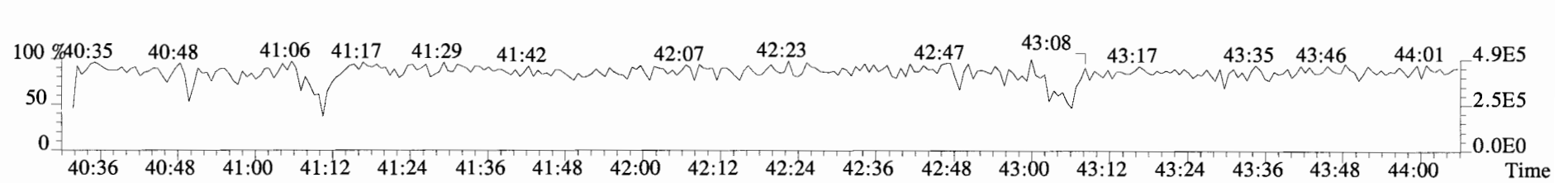
469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



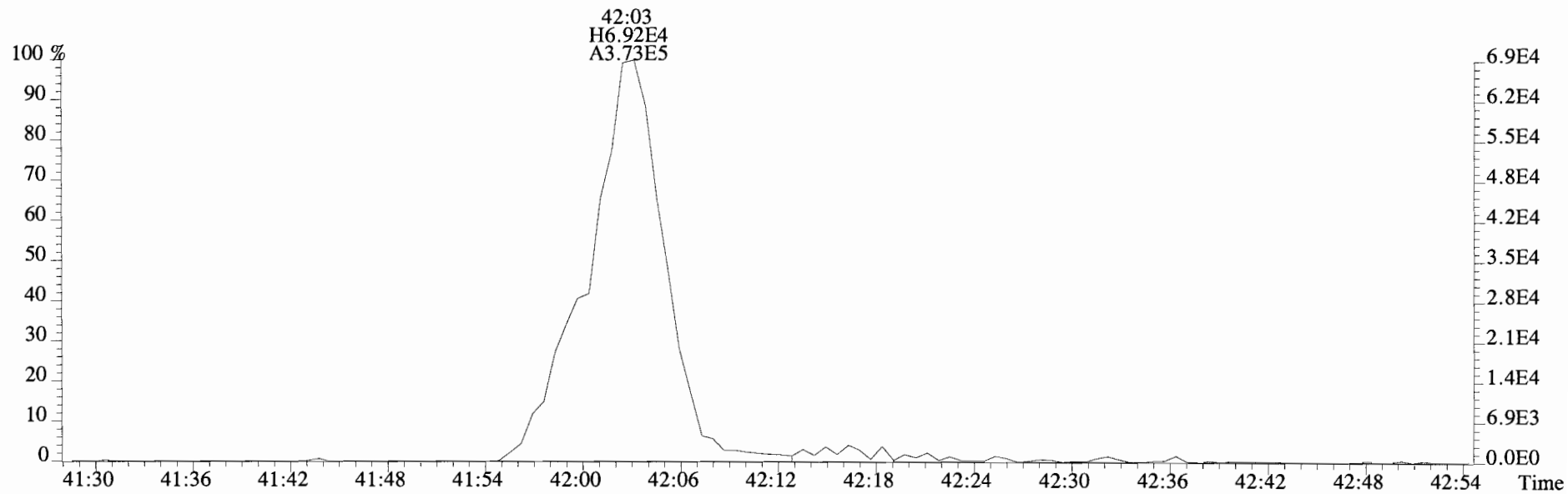
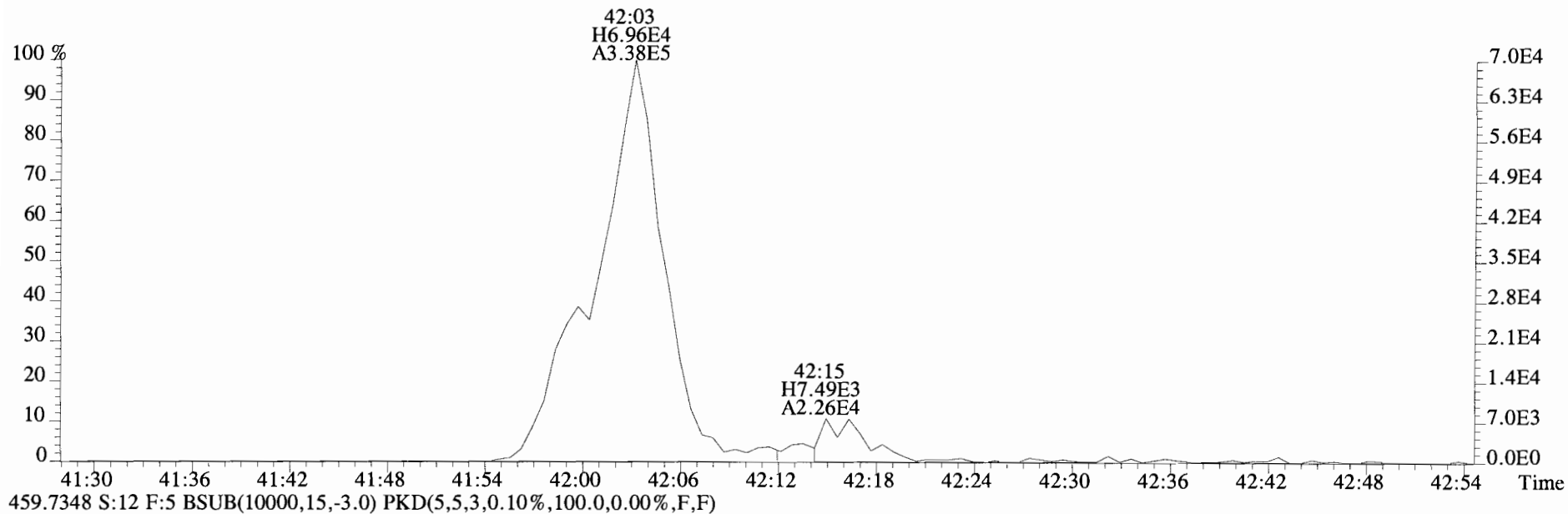
471.7750 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



454.9728 S:12 F:5

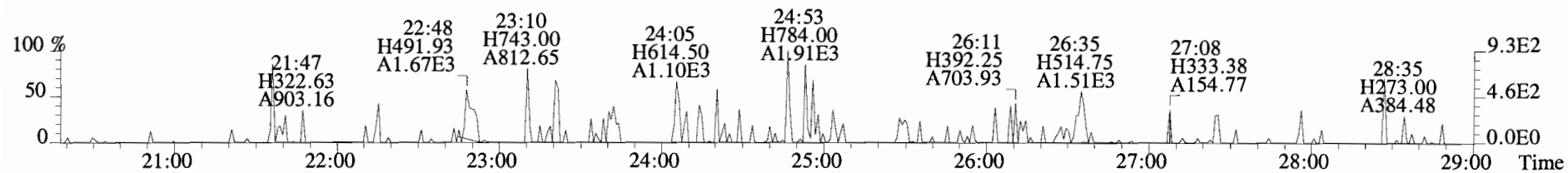


File:140909D1 #1-389 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

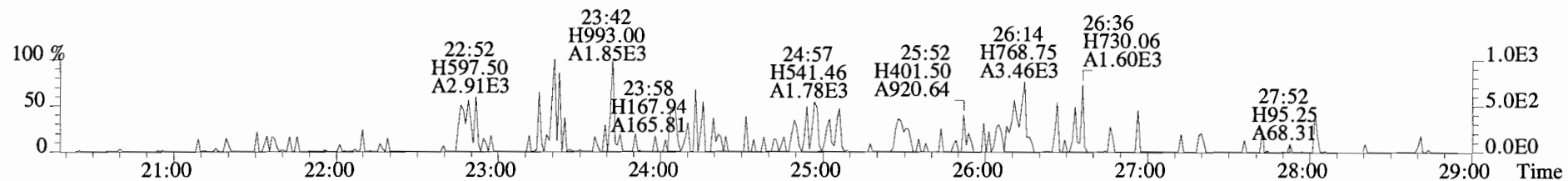




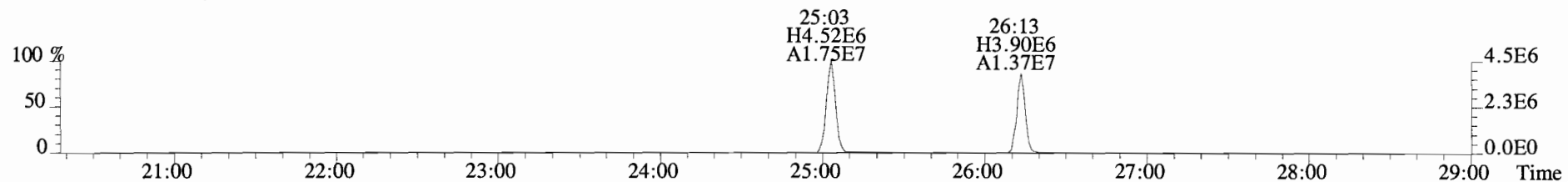
File:140909D1 #1-551 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



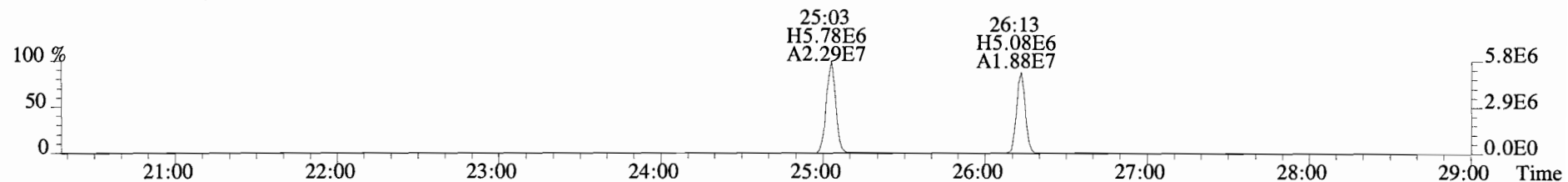
305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



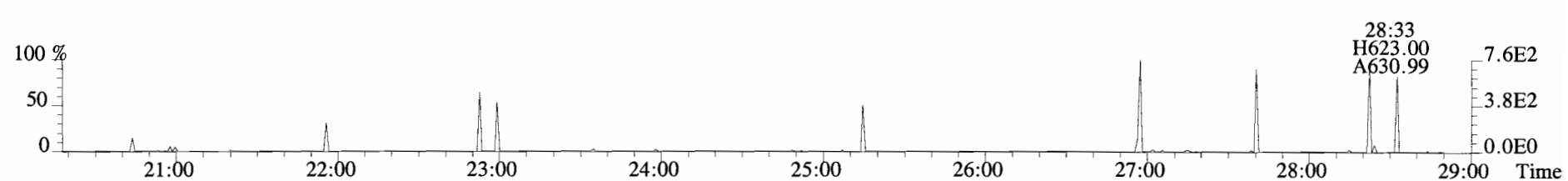
315.9419 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



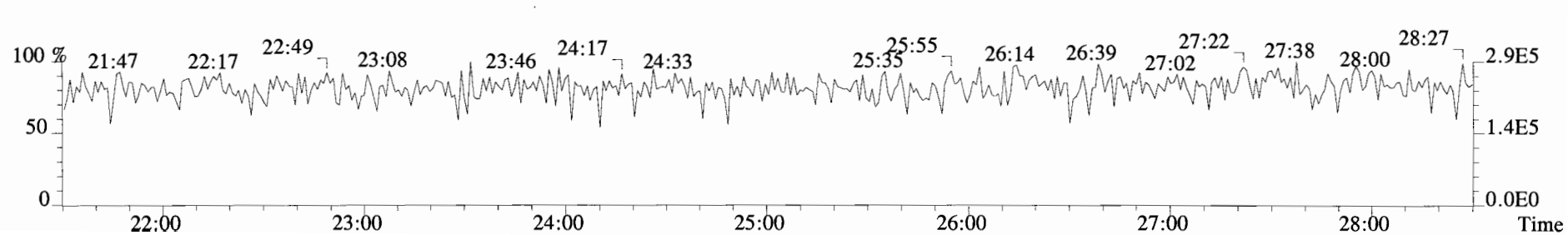
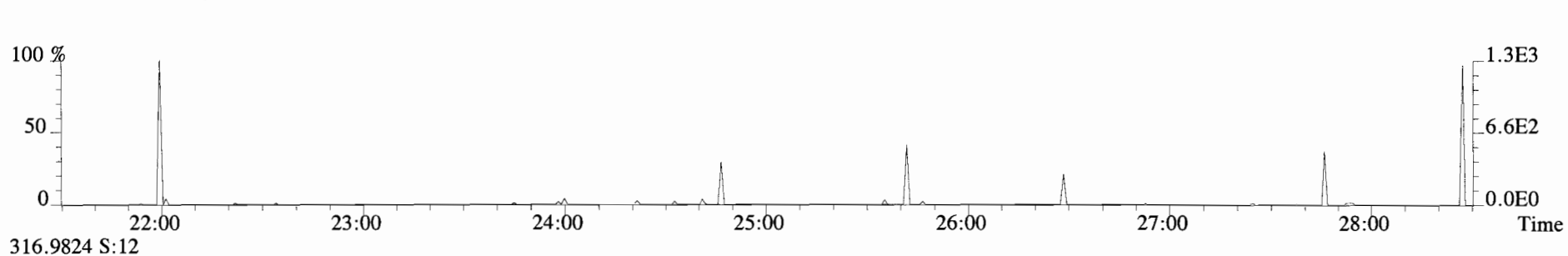
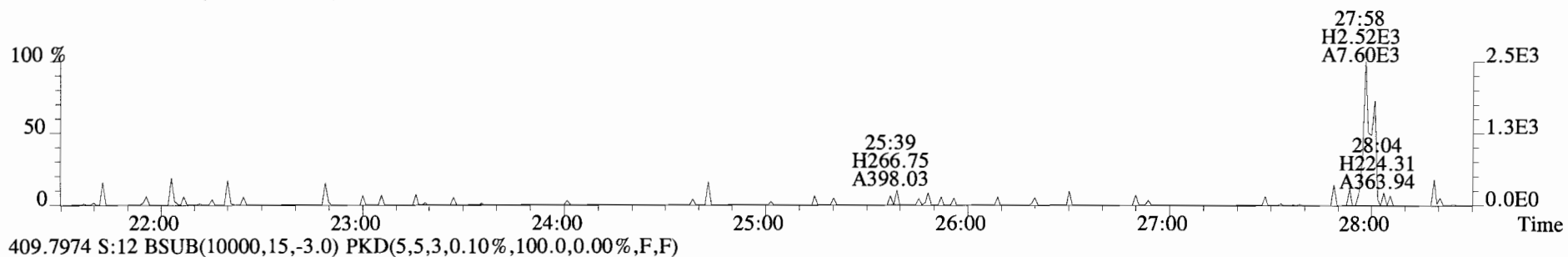
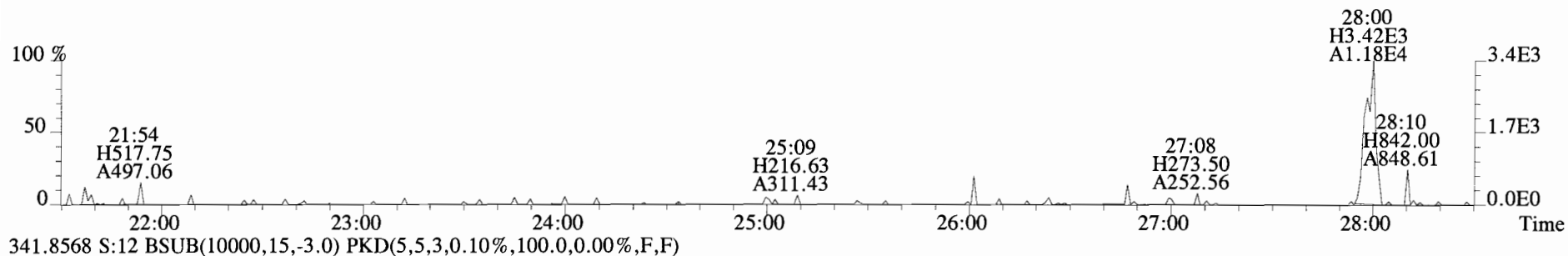
317.9389 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



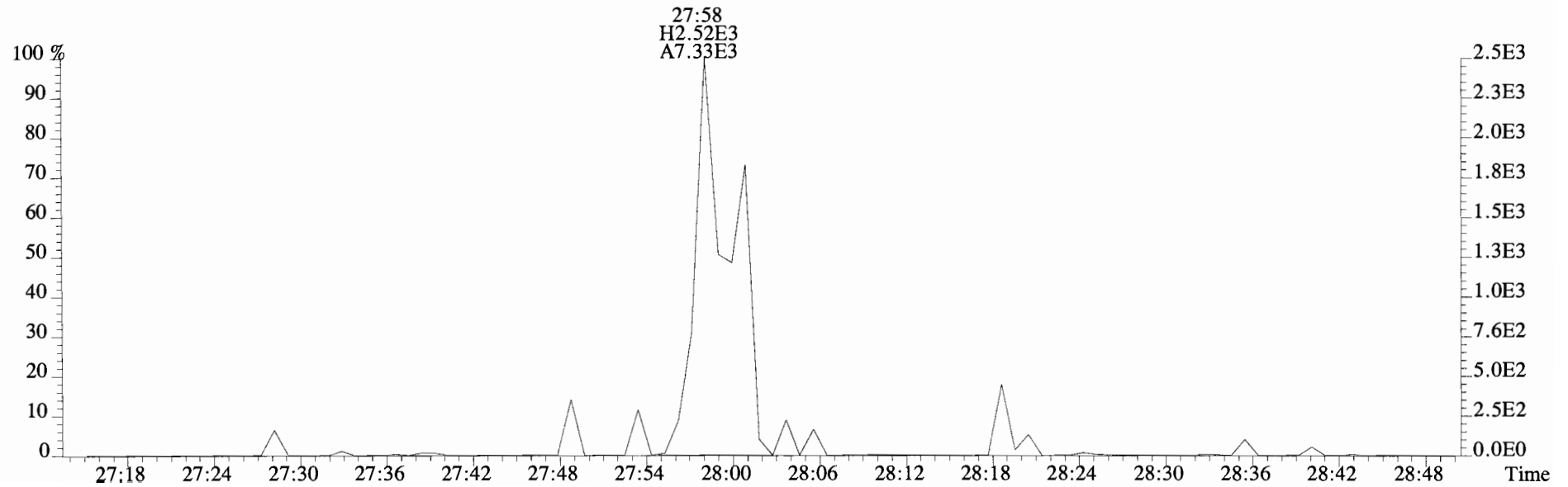
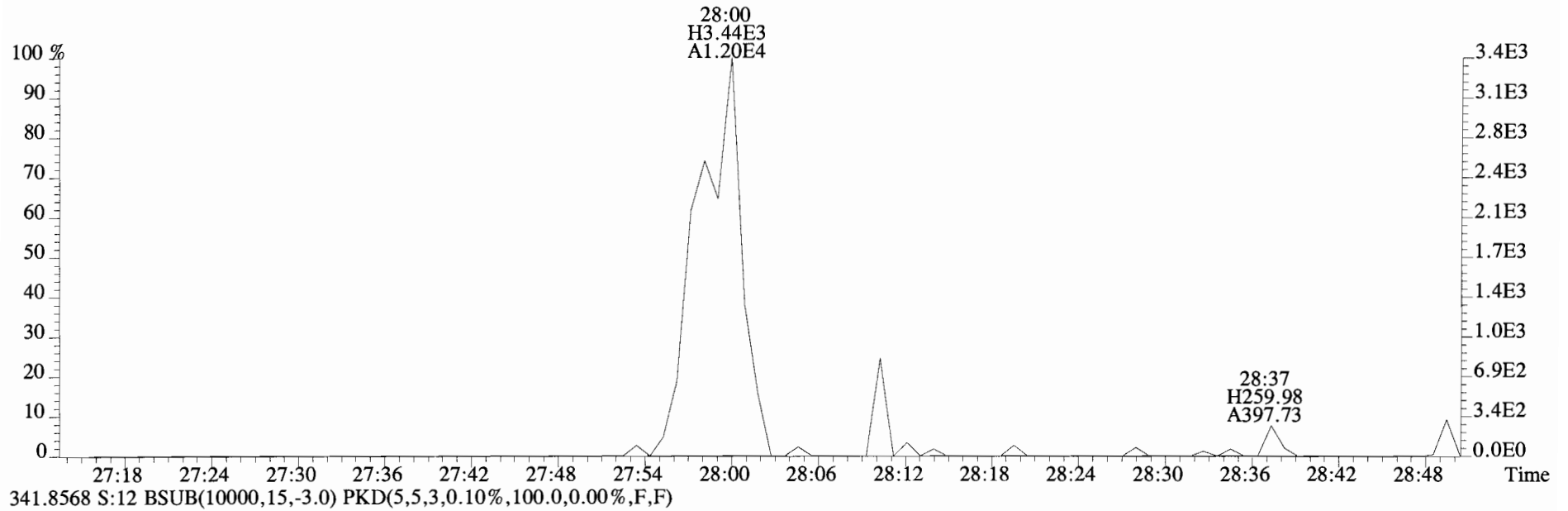
375.8364 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



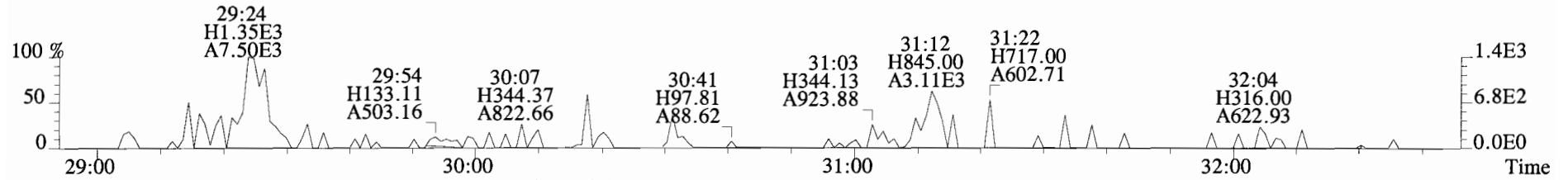
File:140909D1 #1-551 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



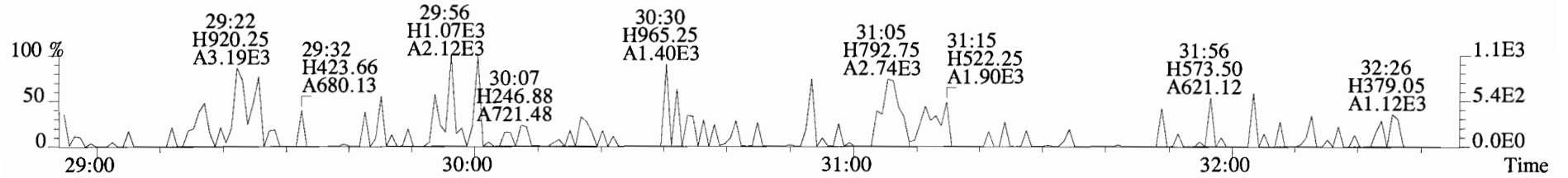
File:140909D1 #1-551 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



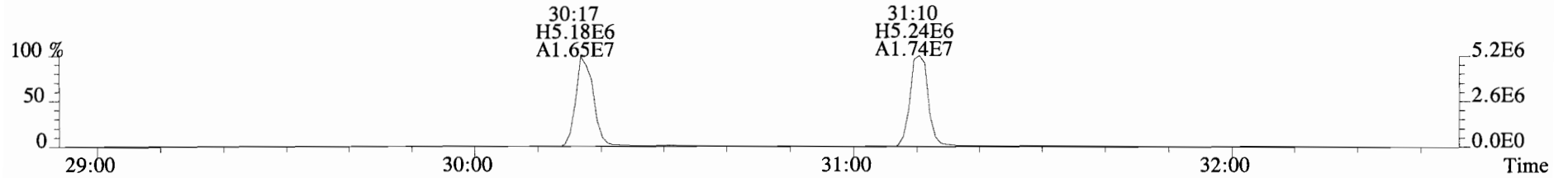
File:140909D1 #1-257 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



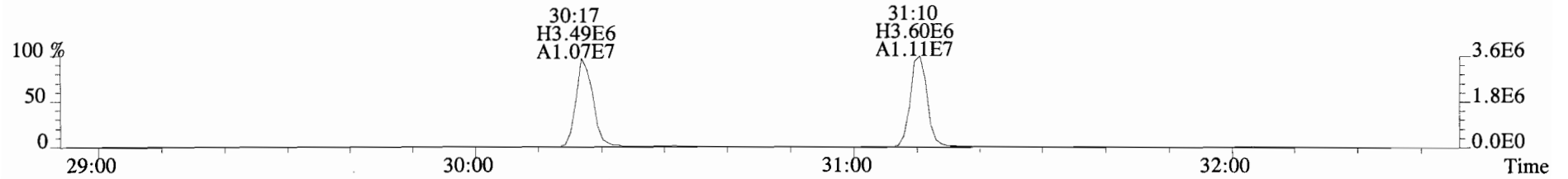
341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



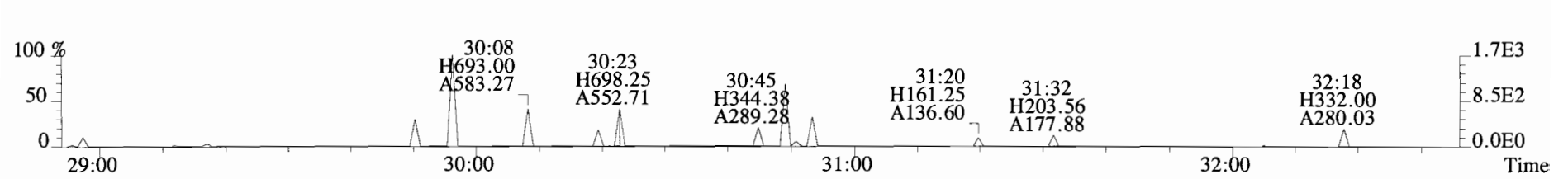
351.9000 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



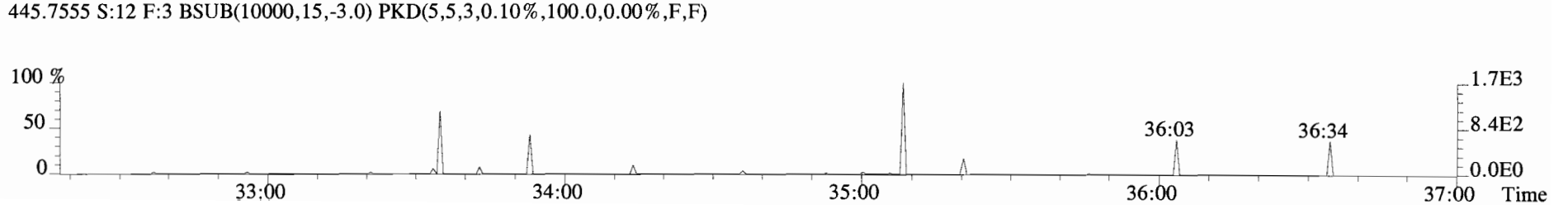
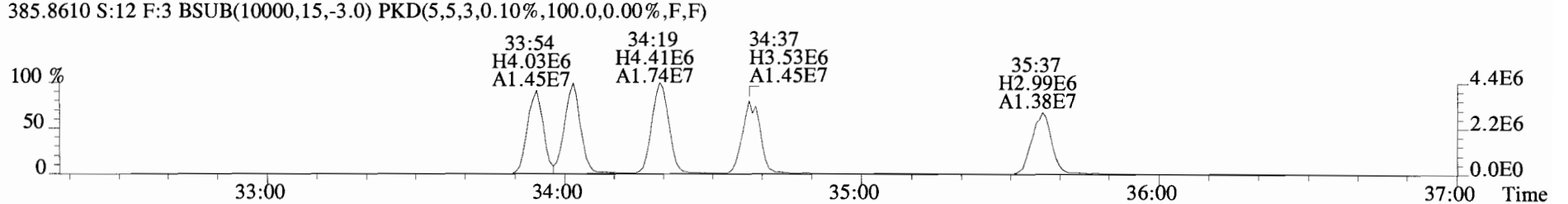
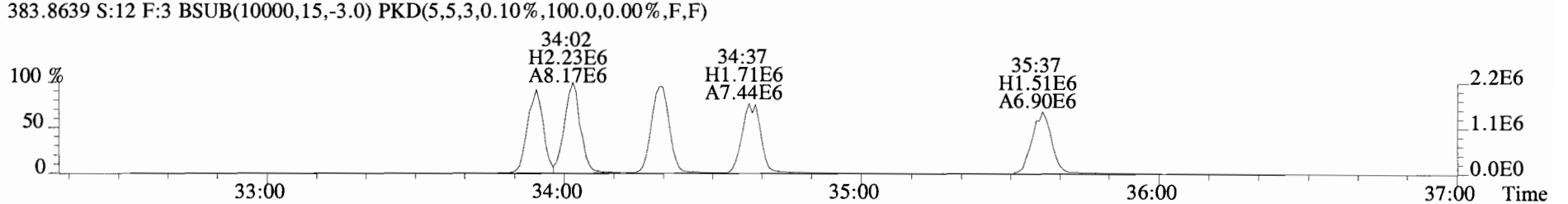
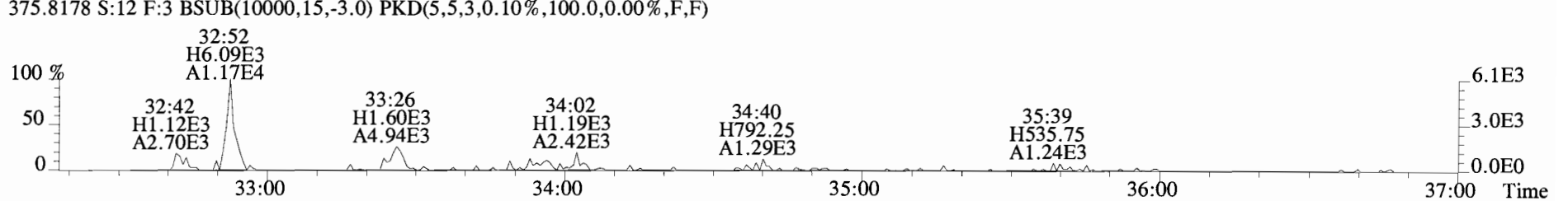
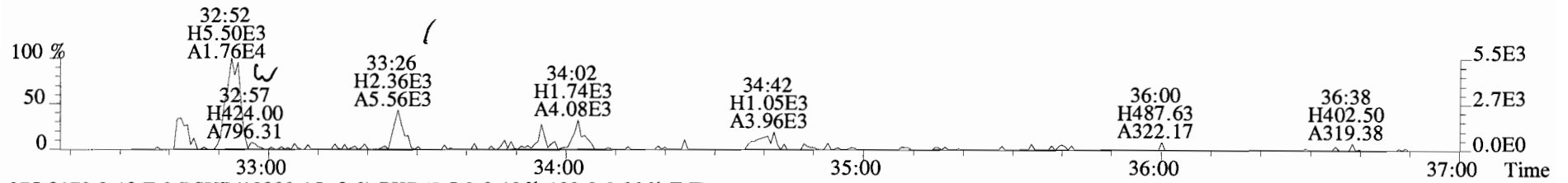
353.8970 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



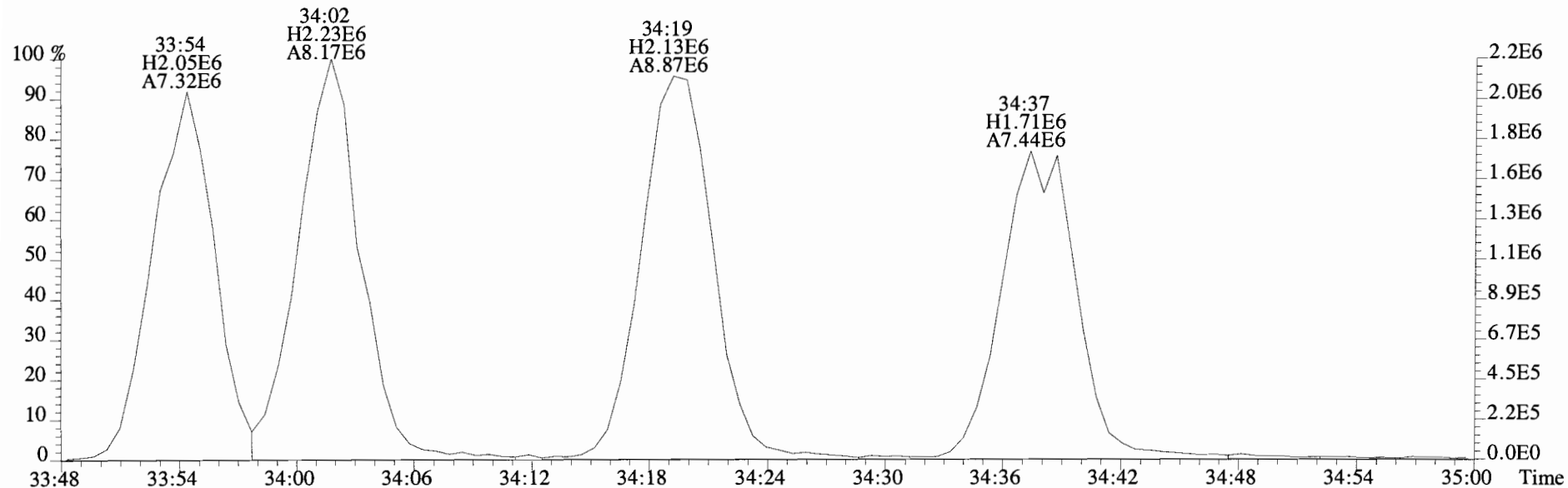
409.7974 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



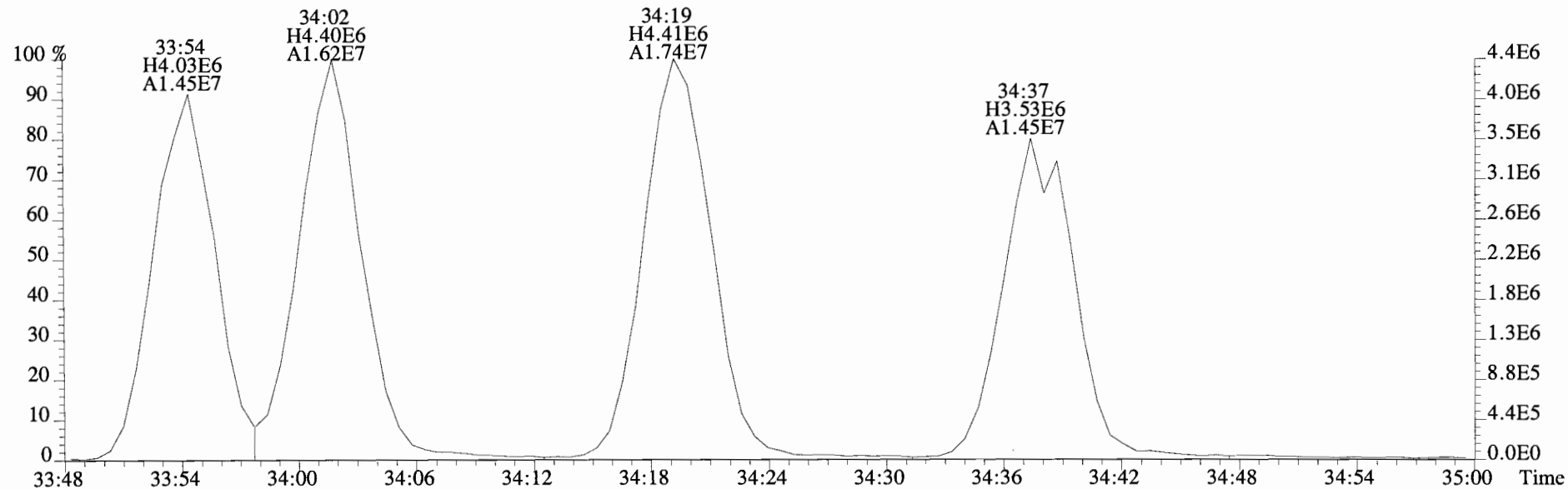
File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



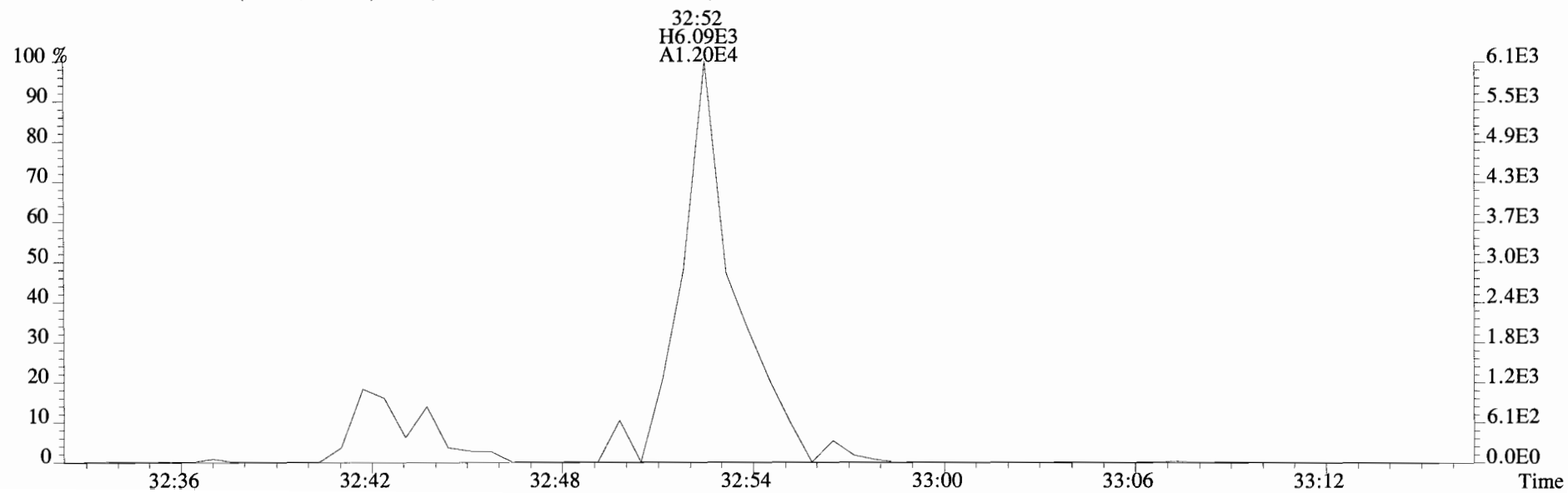
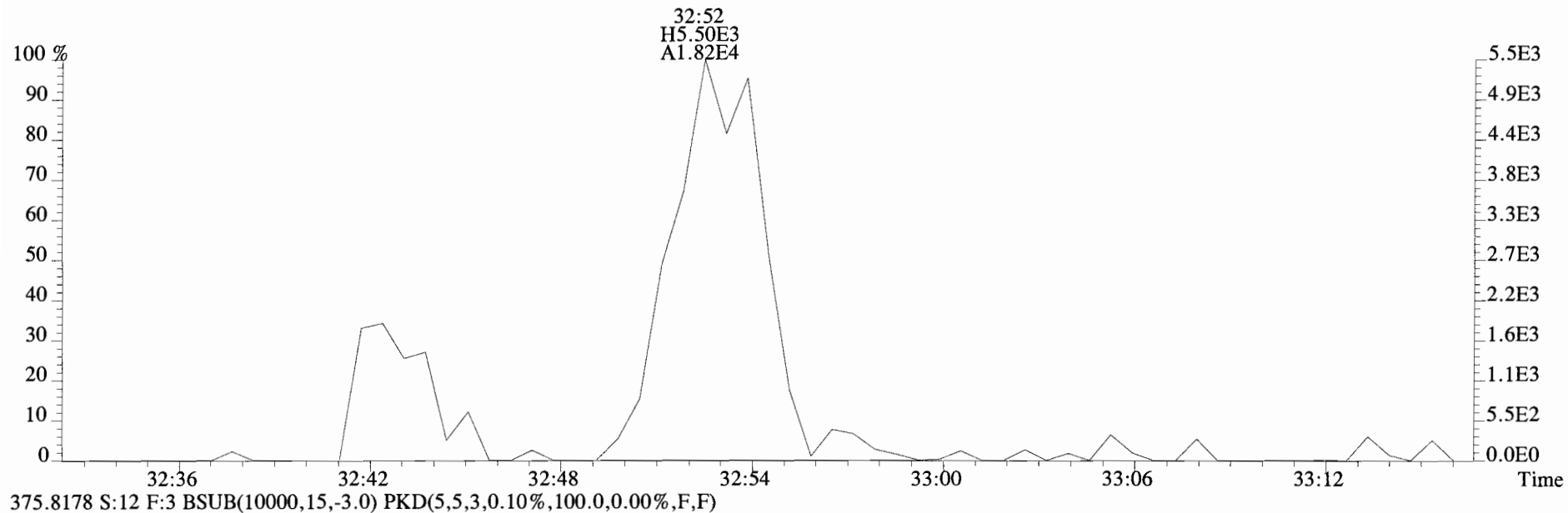
File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



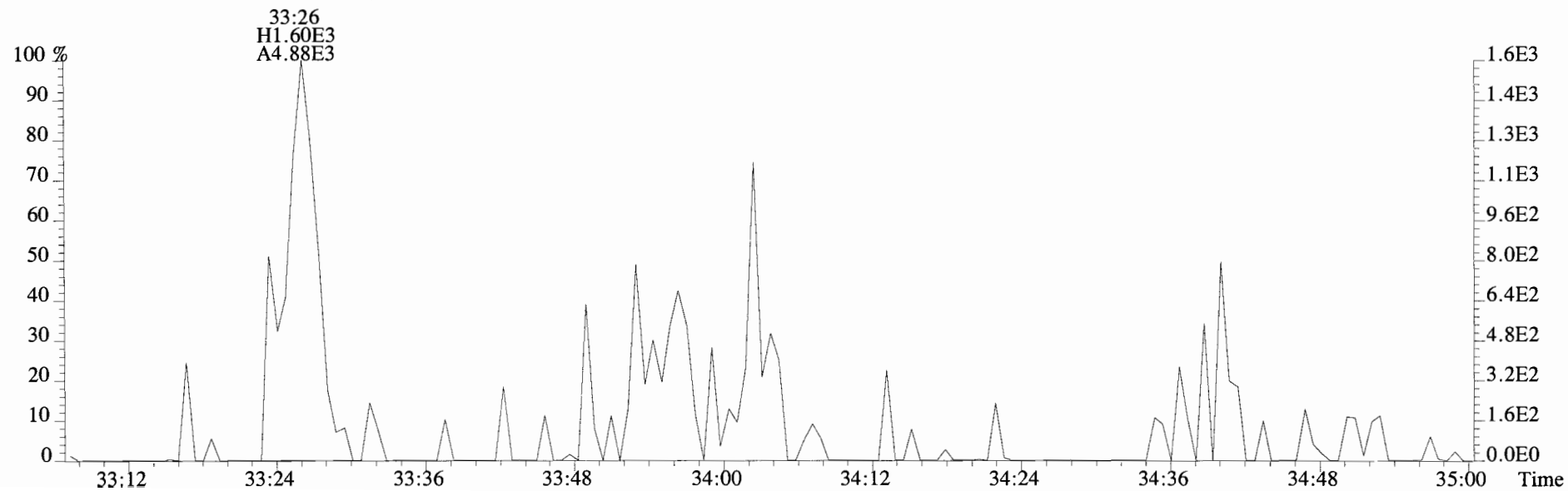
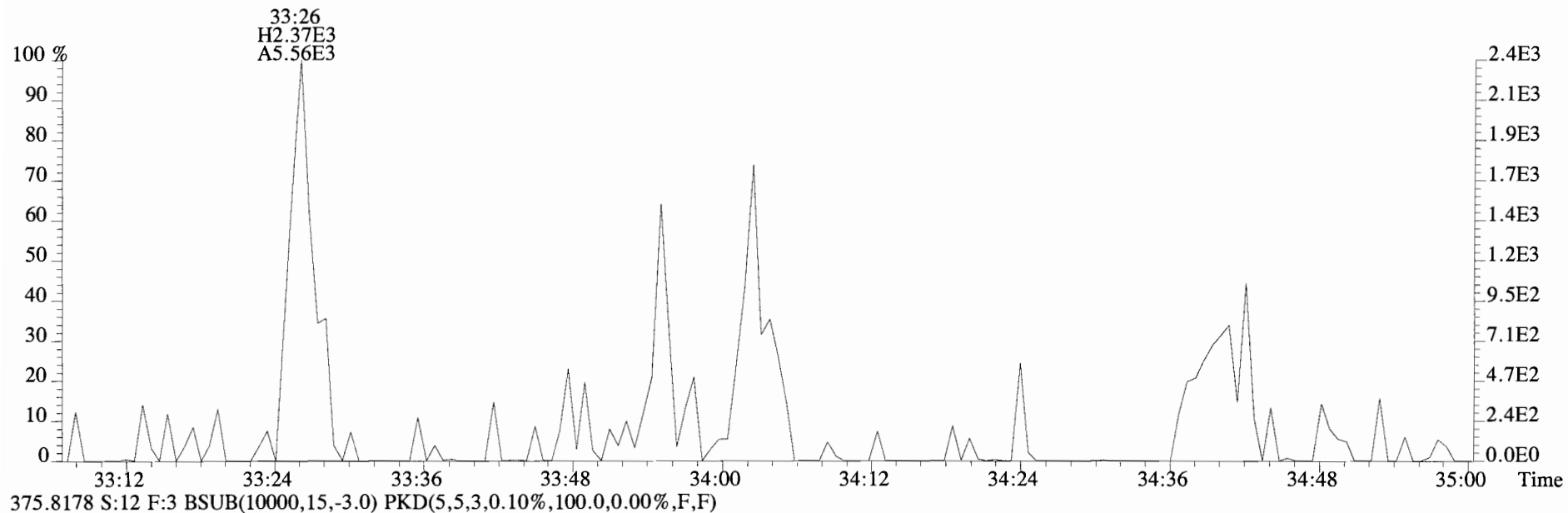
385.8610 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 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)

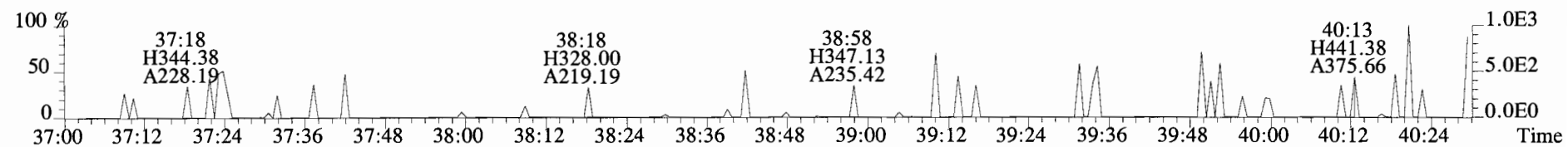
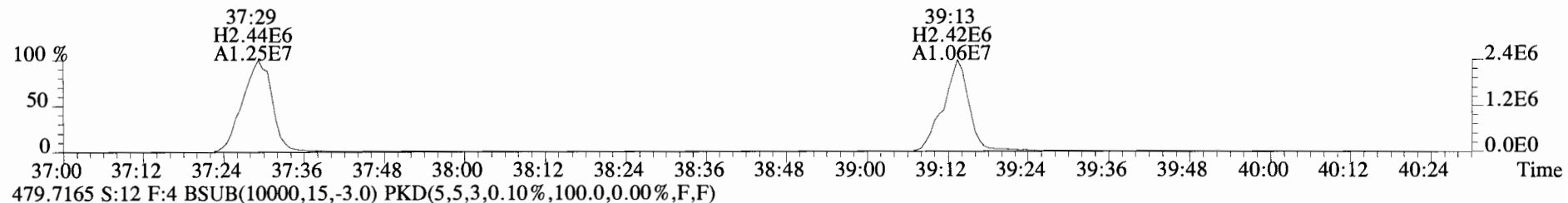
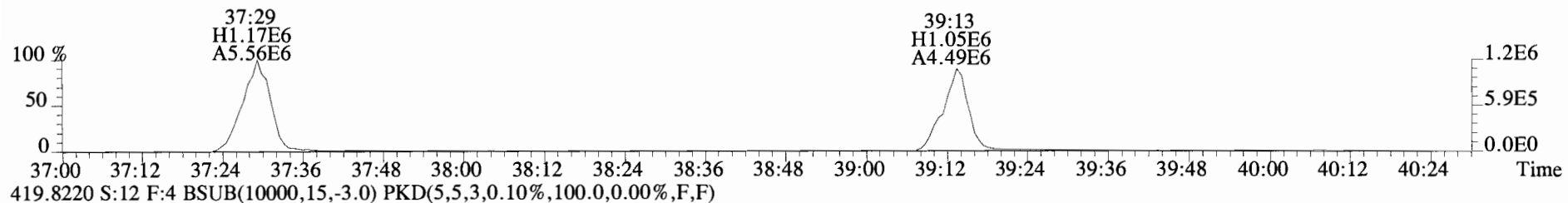
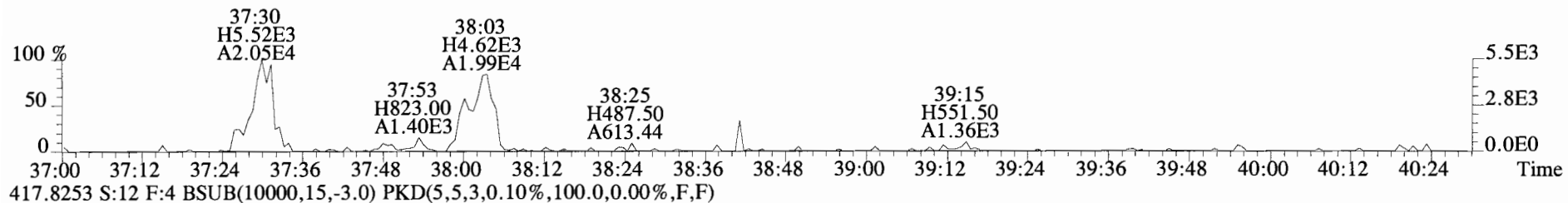
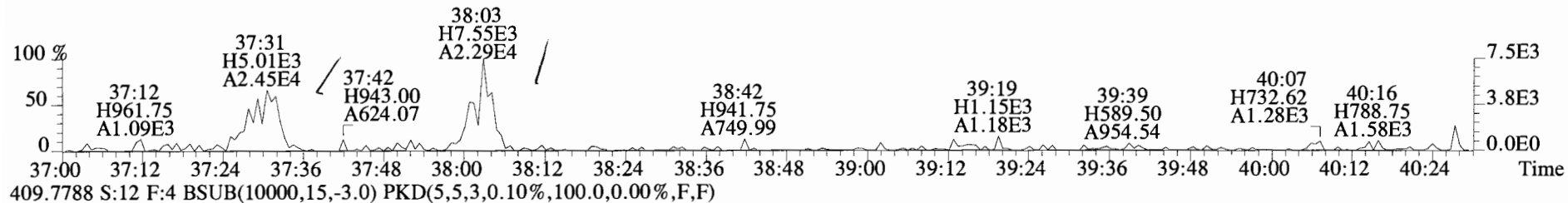


File:140909D1 #1-385 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

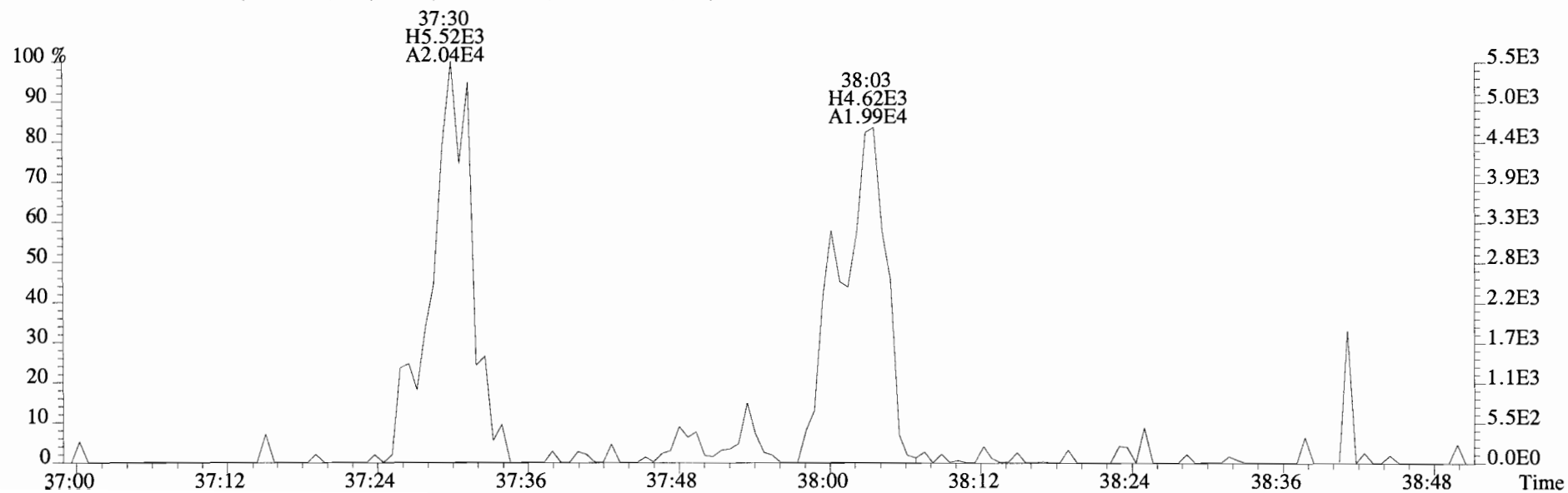
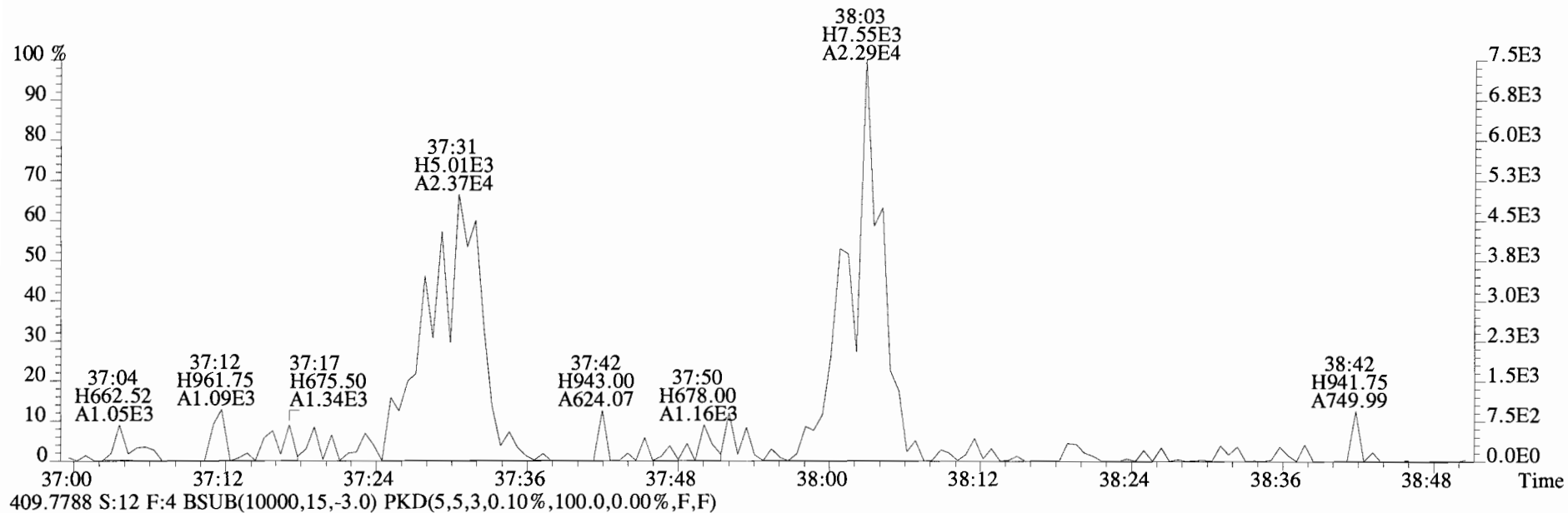




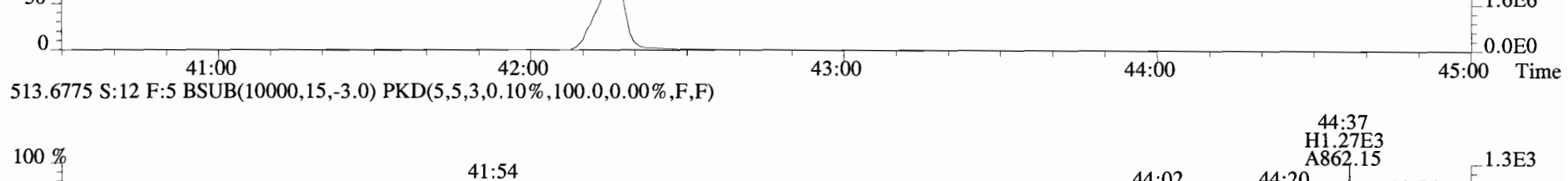
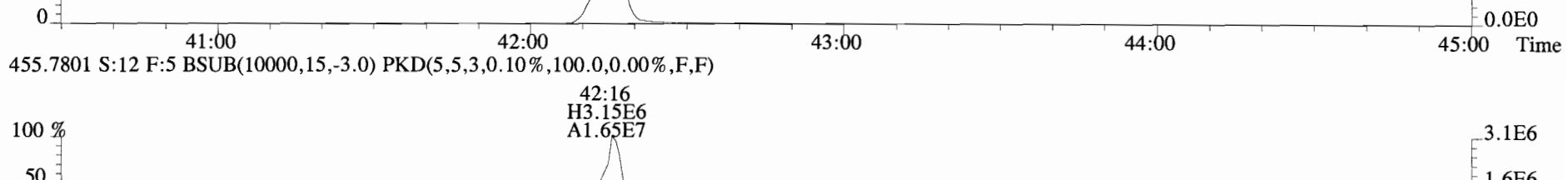
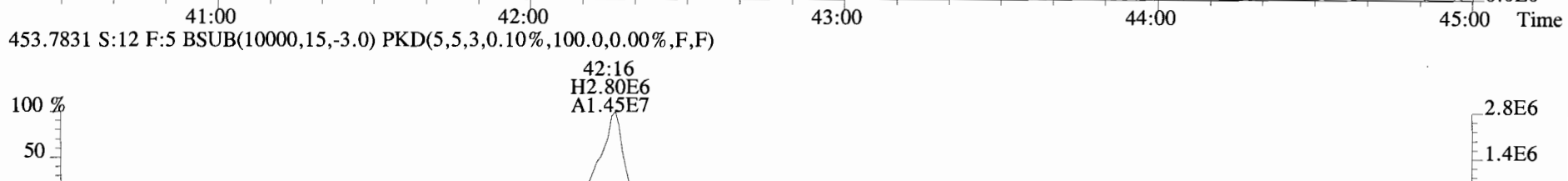
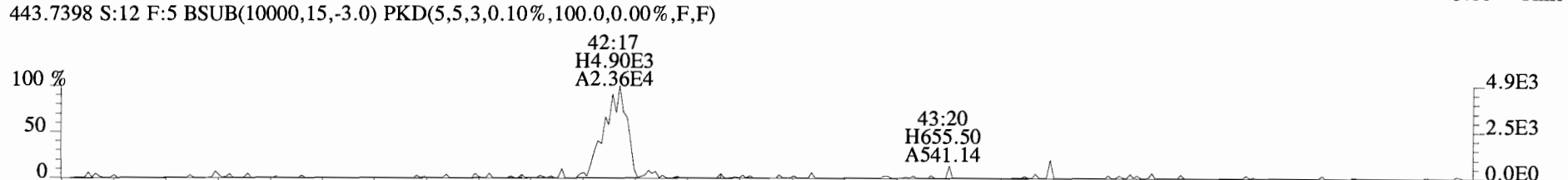
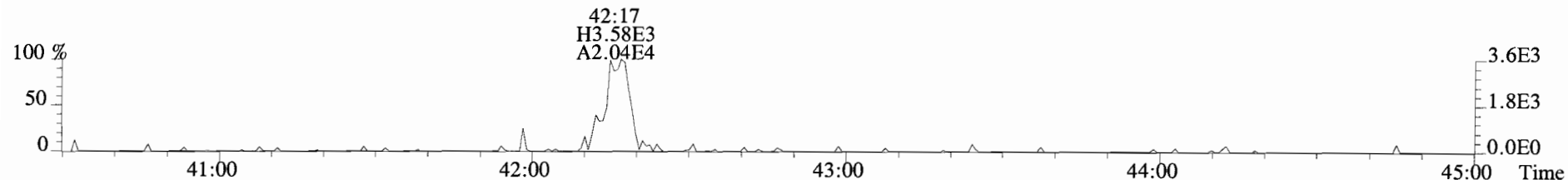
File:140909D1 #1-325 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
407.7818 S:12 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



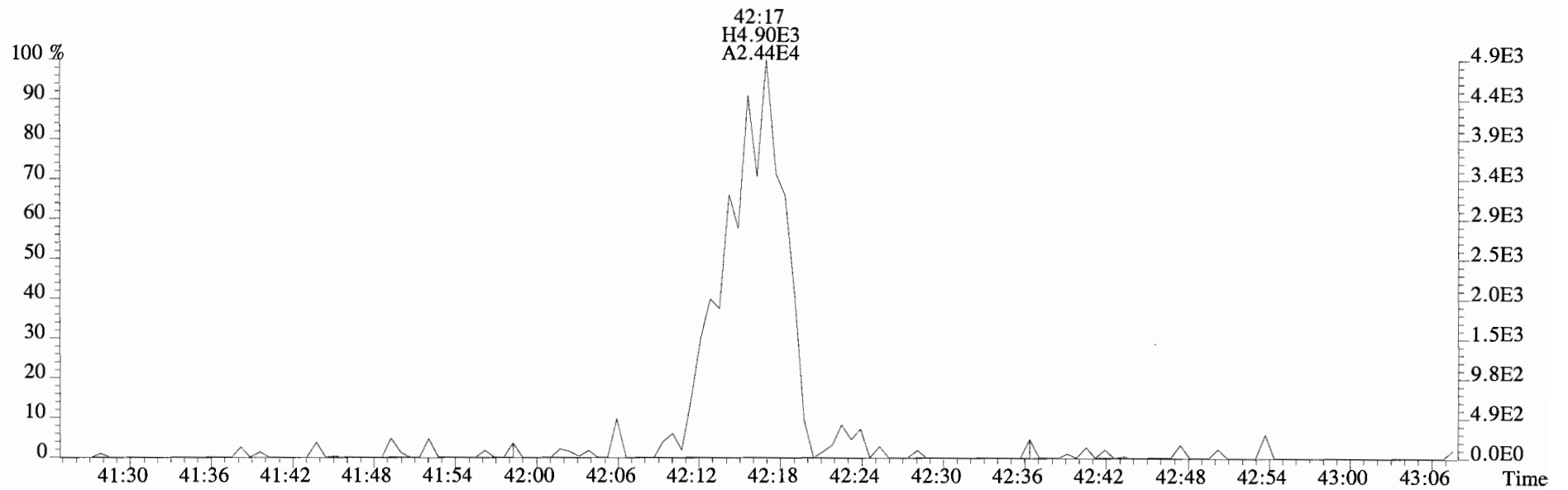
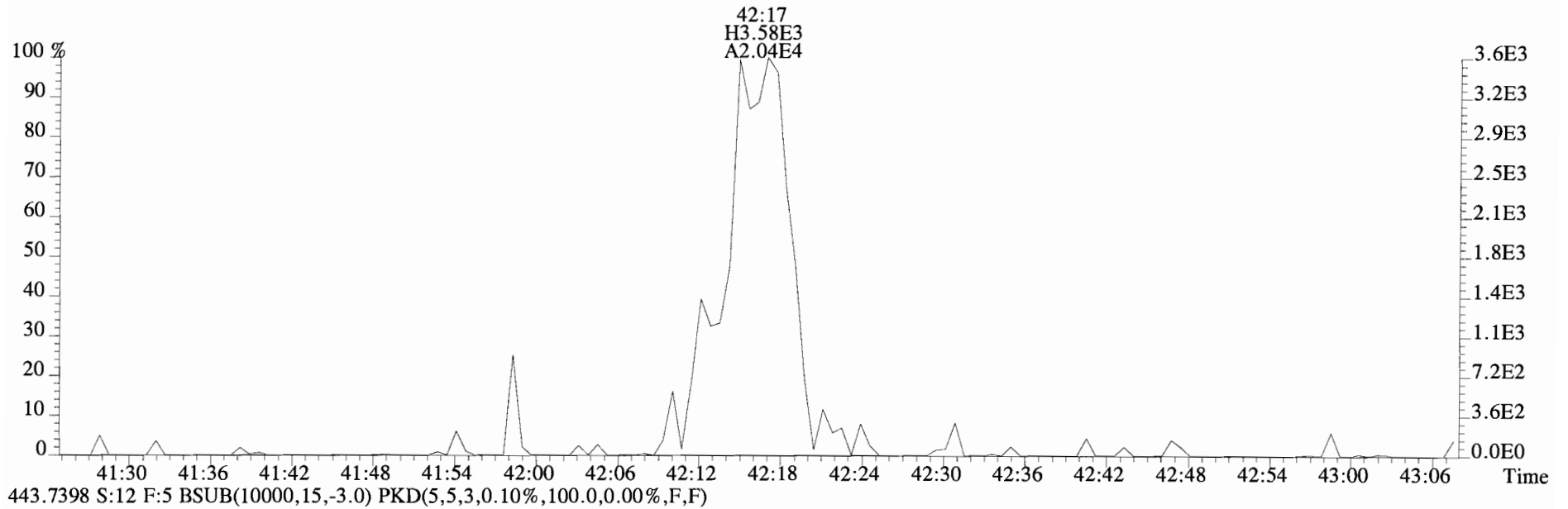
File:140909D1 #1-325 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 Exp:OCDD\_DB5  
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File: 140909D1 #1-389 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text: Vista Analytical Laboratory VG-7 Text: 1400647-03 CS-SP-01-20140903-W 1.01031 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)



File:140909D1 #1-389 Acq: 9-SEP-2014 21:53:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#12 File Text:Vista Analytical Laboratory VG-7 Text:1400647-03 CS-SP-01-20140903-W 1.01031 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: B4I0031-BLK1

Filename: 140912D1 S:9 Acq:12-SEP-14 17:31:21  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 5.000

ConCal: ST140912D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
2,3,7,8-TCDD	*	* n	1.03	Not F $\eta$	*	*		521	2.5	0.135
1,2,3,7,8-PeCDD	*	* n	0.84	Not F $\eta$	*	*		614	2.5	0.135
1,2,3,4,7,8-HxCDD	*	* n	1.05	Not F $\eta$	*	*		497	2.5	0.197
1,2,3,6,7,8-HxCDD	*	* n	1.04	Not F $\eta$	*	*		497	2.5	0.206
1,2,3,7,8,9-HxCDD	*	* n	0.90	Not F $\eta$	*	*		497	2.5	0.202
1,2,3,4,6,7,8-HpCDD	*	* n	1.01	Not F $\eta$	*	*		672	2.5	0.277
OCDD	*	* n	1.04	Not F $\eta$	*	*		2180	1.0	0.425
2,3,7,8-TCDF	*	* n	0.91	Not F $\eta$	*	*		631	2.5	0.161
1,2,3,7,8-PeCDF	*	* n	0.97	Not F $\eta$	*	*		676	2.5	0.167
2,3,4,7,8-PeCDF	*	* n	0.94	Not F $\eta$	*	*		676	2.5	0.180
1,2,3,4,7,8-HxCDF	*	* n	1.32	Not F $\eta$	*	*		914	2.5	0.138
1,2,3,6,7,8-HxCDF	*	* n	1.18	Not F $\eta$	*	*		914	2.5	0.147
2,3,4,6,7,8-HxCDF	*	* n	1.23	Not F $\eta$	*	*		516	2.5	0.0987
1,2,3,7,8,9-HxCDF	*	* n	1.13	Not F $\eta$	*	*		516	2.5	0.124
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	Not F $\eta$	*	*		679	2.5	0.141
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	Not F $\eta$	*	*		406	2.5	0.0879
OCDF	*	* n	1.05	Not F $\eta$	*	*		510	2.5	0.222

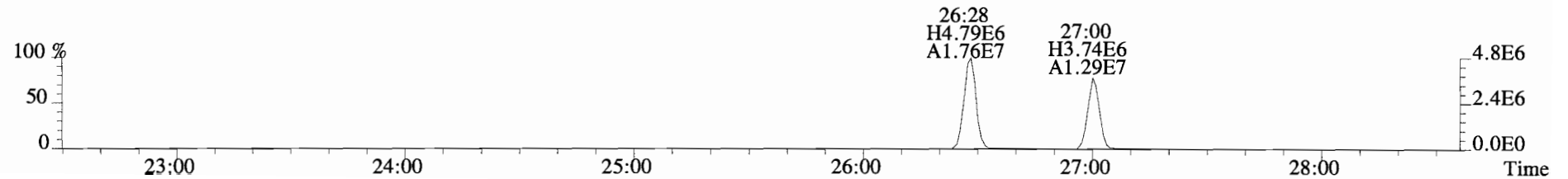
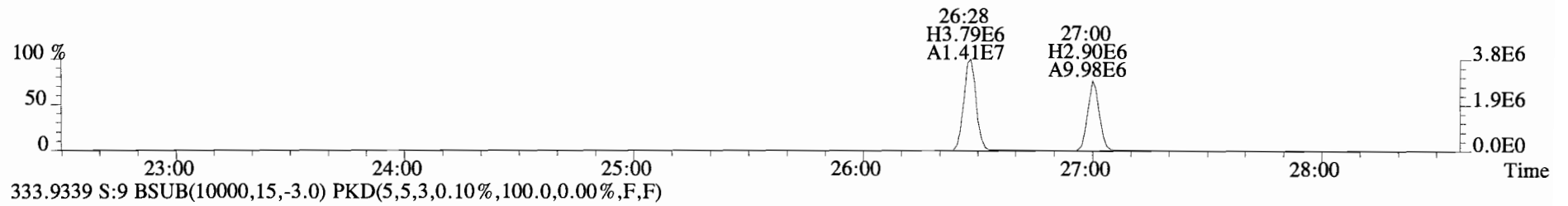
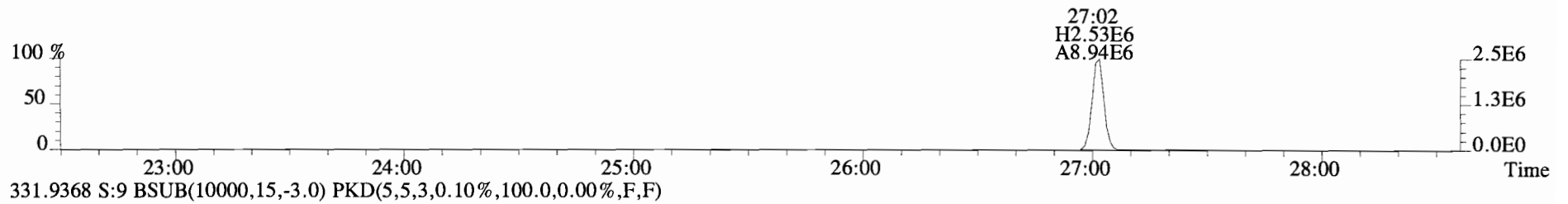
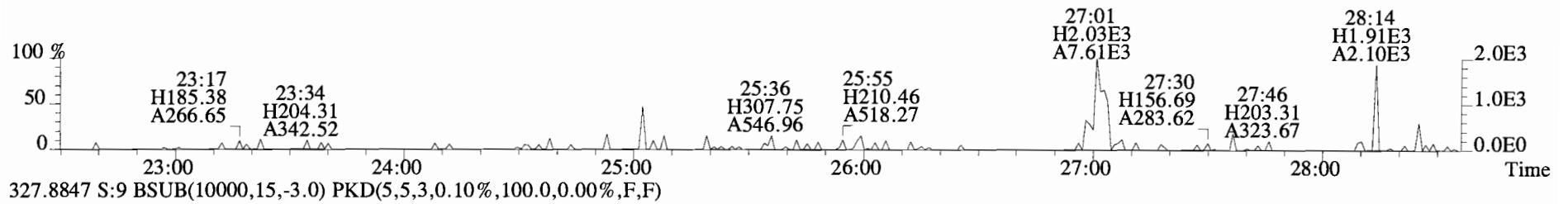
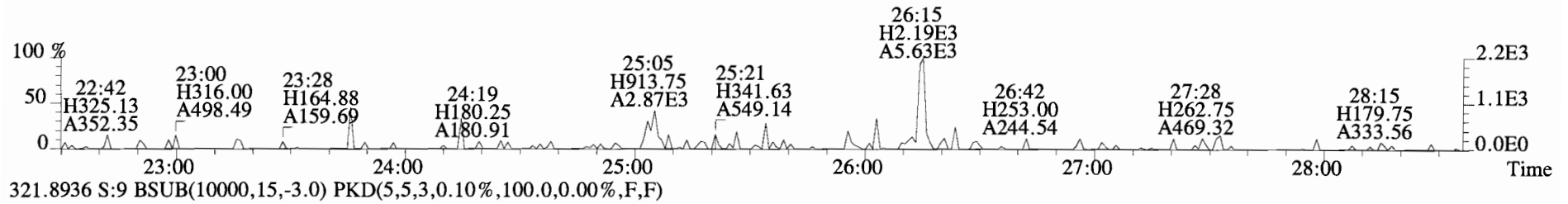
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		521	0.135
Total Penta-Dioxins	*	*		1350	0.297
Total Hexa-Dioxins	*	*		745	0.301
Total Hepta-Dioxins	*	*		2130	0.880
Total Tetra-Furans	*	*		631	0.161
Total Penta-Furans	0.0000	0.0000		1120	0.287
Total Hexa-Furans	*	*		914	0.167
Total Hepta-Furans	*	*		679	0.144

IS	13C-2,3,7,8-TCDD	2.29e+07	0.77 y	1.06	27:00	1.020	271.43	67.9	Qual
IS	13C-1,2,3,7,8-PeCDD	2.67e+07	0.63 y	1.08	31:27	1.189	311.14	77.8	
IS	13C-1,2,3,4,7,8-HxCDD	2.15e+07	1.26 y	0.74	34:49	1.014	372.48	93.1	
IS	13C-1,2,3,6,7,8-HxCDD	2.19e+07	1.26 y	0.75	34:55	1.017	374.55	93.6	
IS	13C-1,2,3,7,8,9-HxCDD	2.71e+07	1.25 y	0.89	35:14	1.026	390.17	97.5	
IS	13C-1,2,3,4,6,7,8-HpCDD	2.08e+07	1.05 y	0.70	38:40	1.127	378.73	94.7	
IS	13C-OCDD	3.57e+07	0.87 y	0.59	42:03	1.225	776.67	97.1	
IS	13C-2,3,7,8-TCDF	2.84e+07	0.77 y	0.97	26:14	0.991	249.48	62.4	
IS	13C-1,2,3,7,8-PeCDF	3.20e+07	1.59 y	0.99	30:18	1.145	274.55	68.6	
IS	13C-2,3,4,7,8-PeCDF	3.16e+07	1.58 y	1.01	31:11	1.178	267.06	66.8	
IS	13C-1,2,3,4,7,8-HxCDF	2.77e+07	0.51 y	0.94	33:55	0.988	377.52	94.4	
IS	13C-1,2,3,6,7,8-HxCDF	2.97e+07	0.52 y	1.23	34:02	0.992	310.68	77.7	
IS	13C-2,3,4,6,7,8-HxCDF	2.78e+07	0.52 y	1.03	34:39	1.009	345.57	86.4	
IS	13C-1,2,3,7,8,9-HxCDF	2.48e+07	0.53 y	0.89	35:37	1.038	359.03	89.8	
IS	13C-1,2,3,4,6,7,8-HpCDF	2.15e+07	0.44 y	0.71	37:30	1.092	391.15	97.8	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.90e+07	0.44 y	0.64	39:14	1.143	379.67	94.9	
IS	13C-OCDF	4.36e+07	0.92 y	0.76	42:17	1.231	738.20	92.3	

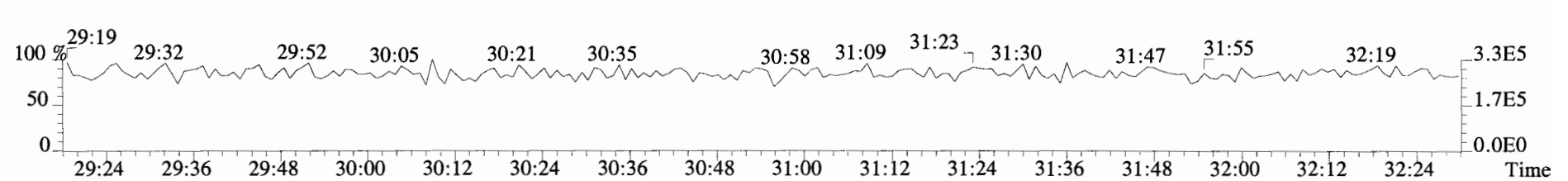
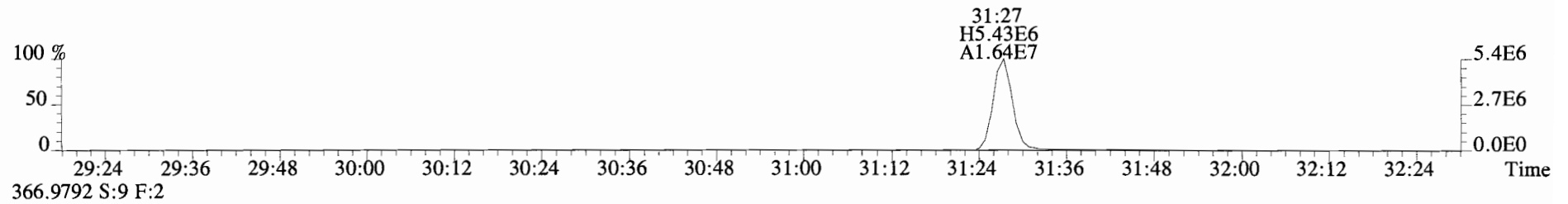
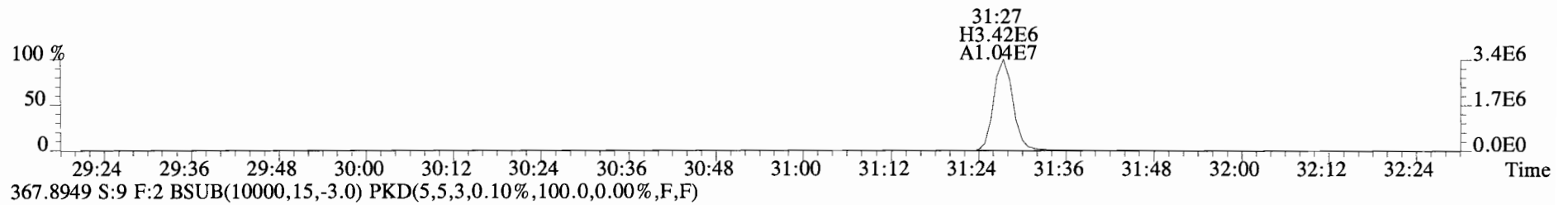
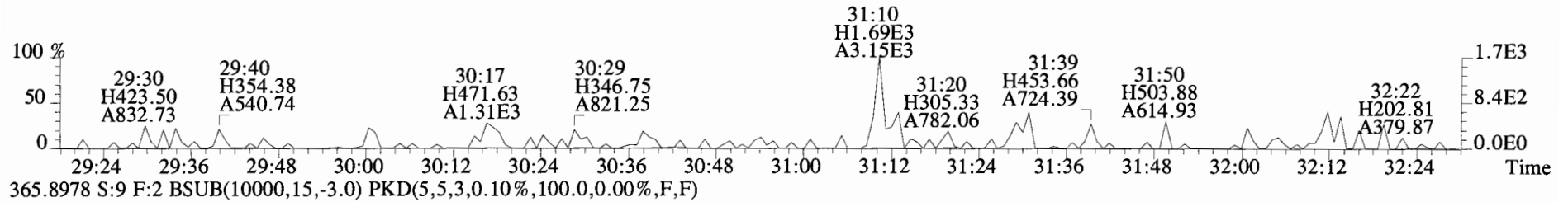
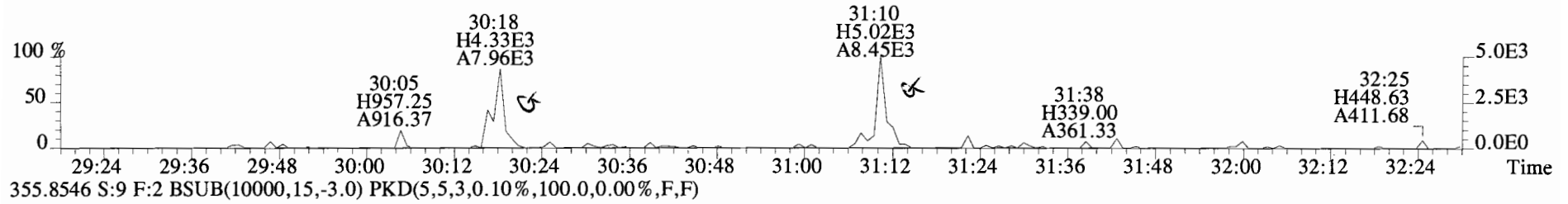
C/Up	37C1-2,3,7,8-TCDD	8.94e+06		1.04	27:02	1.021	108.09	67.6	
RS/RT	13C-1,2,3,4-TCDD	3.17e+07	0.80 y	1.00	26:28	*	400.00		
RS	13C-1,2,3,4-TCDF	4.71e+07	0.75 y	1.00	25:05	*	400.00		
RS/RT	13C-1,2,3,4,6,9-HxCDF	3.12e+07	0.52 y	1.00	34:20	*	400.00		

Integrations  
by  
Analyst: ms  
Date: 9/15/14  
Reviewed  
by  
Analyst: [Signature]  
Date: 9/17/14

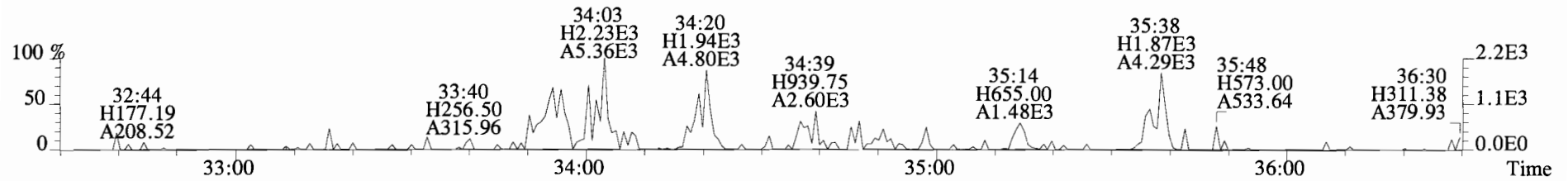
File:140912D1 #1-551 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



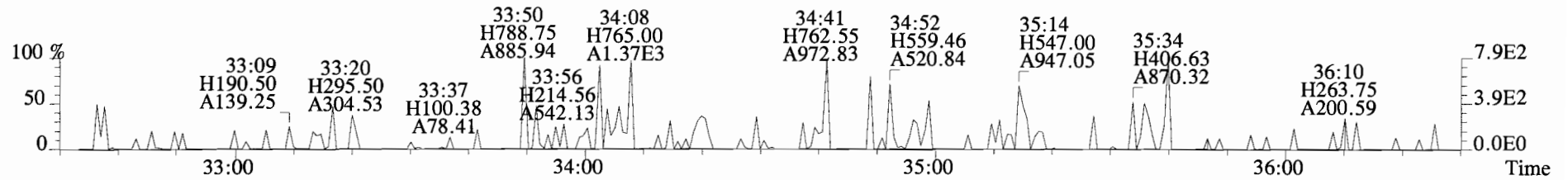
File:140912D1 #1-257 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



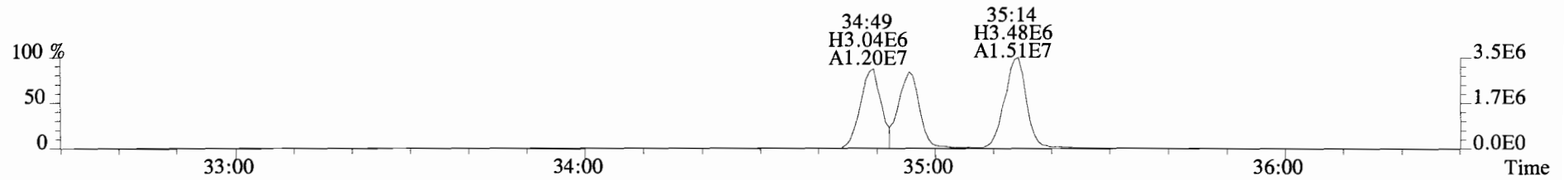
File:140912D1 #1-385 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B410031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



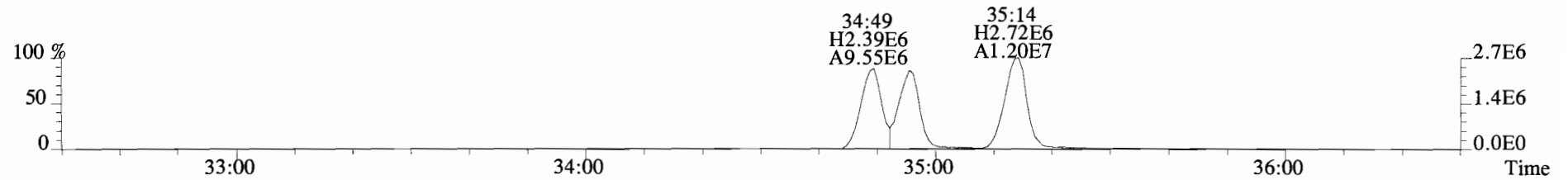
391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



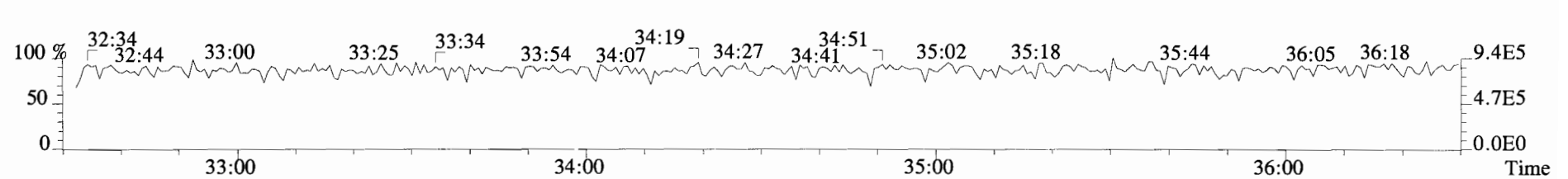
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

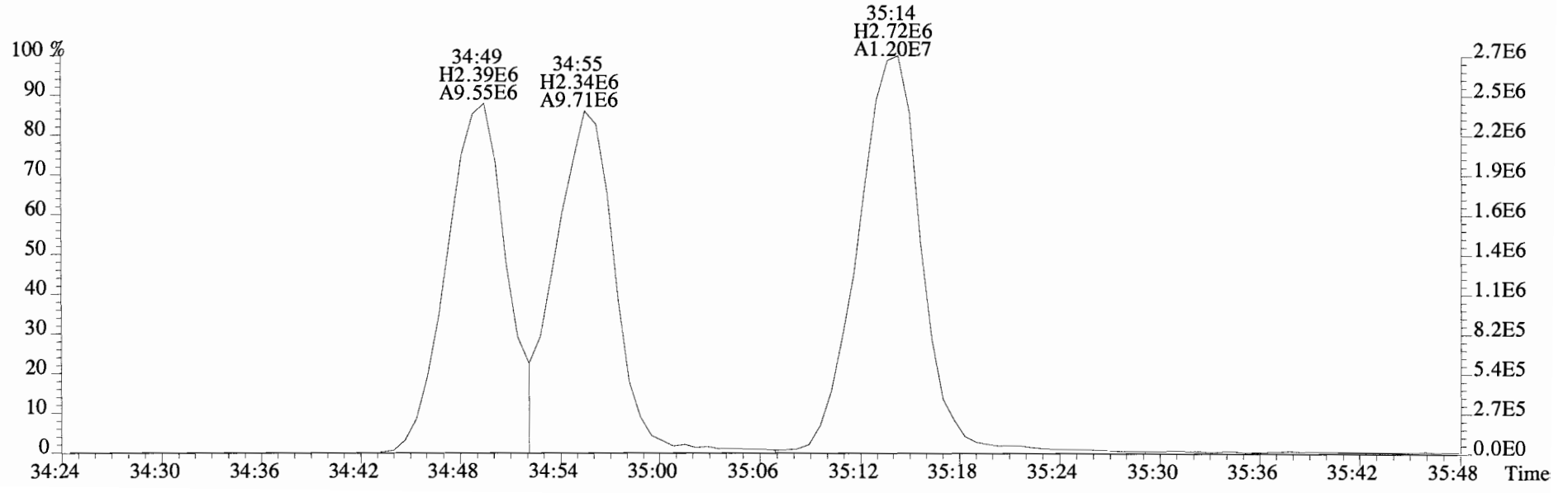
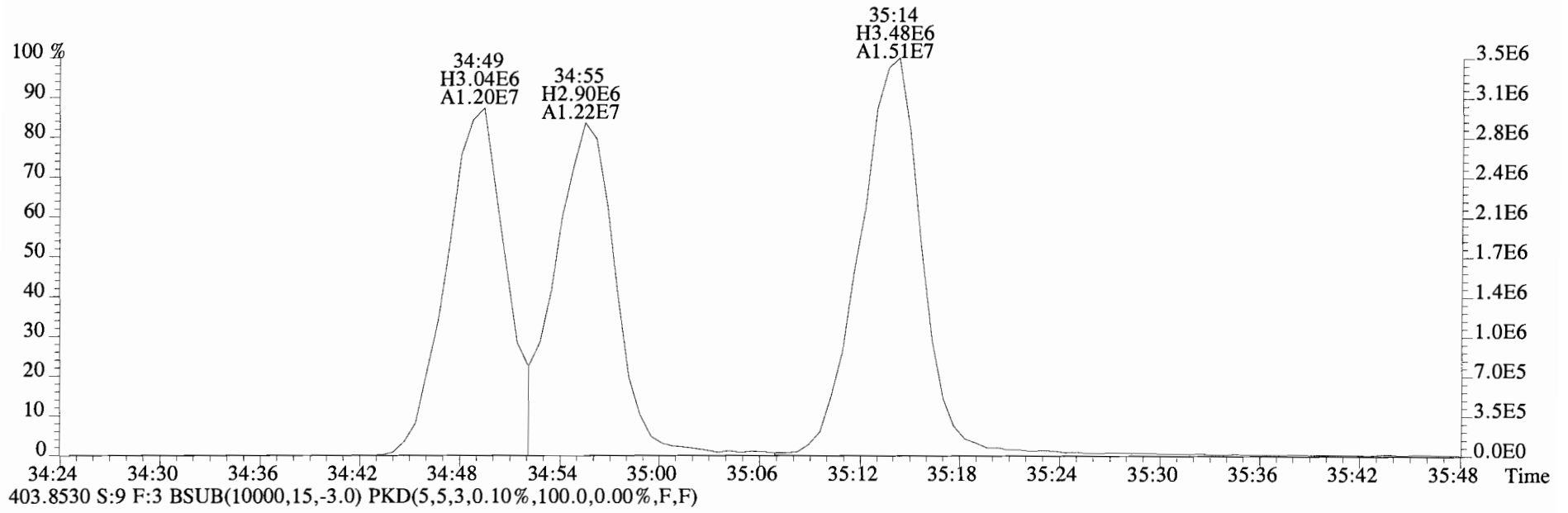


380.9760 S:9 F:3

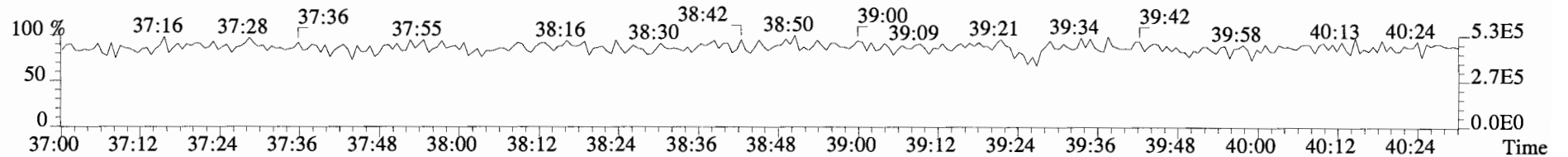
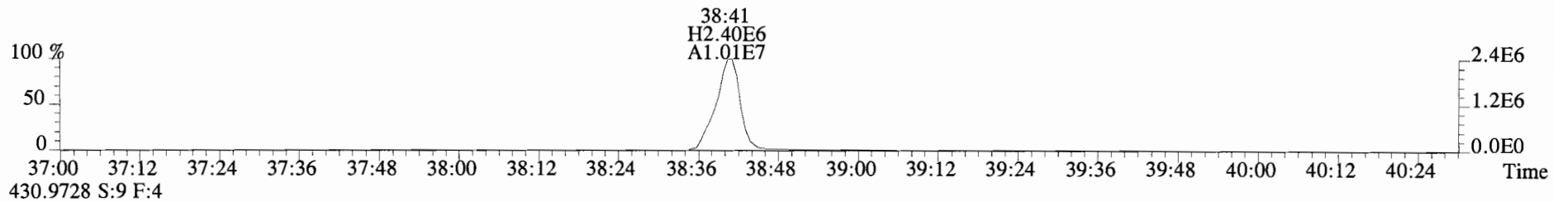
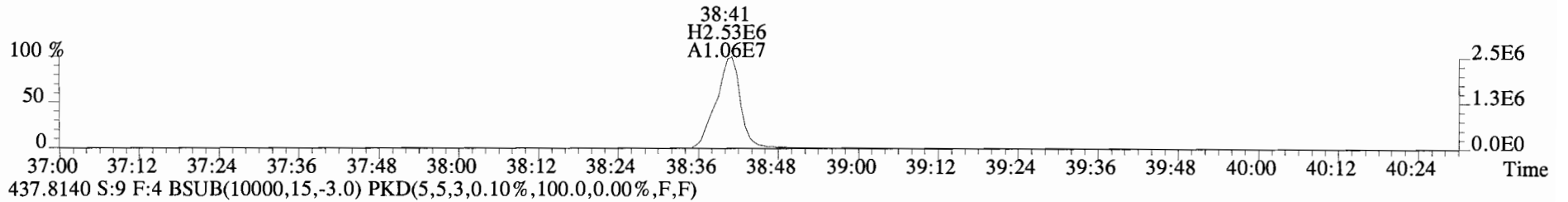
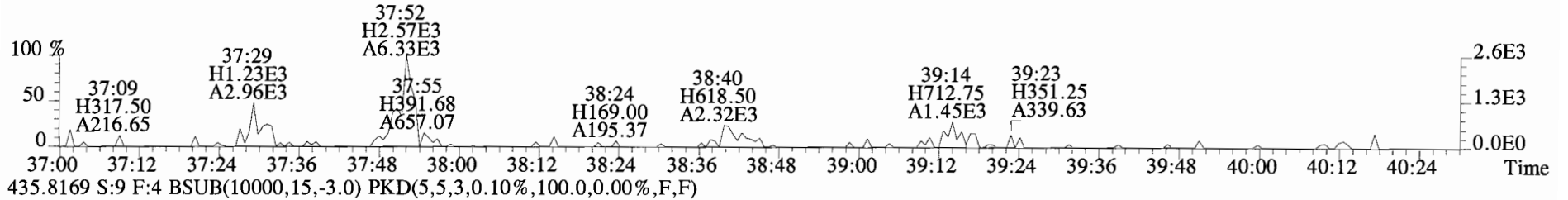
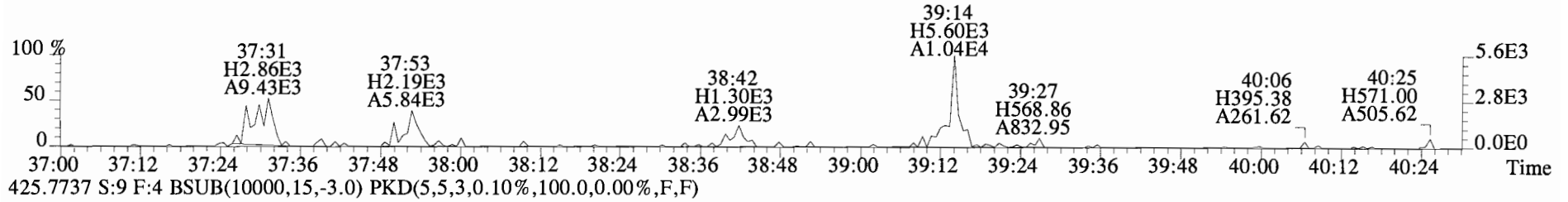




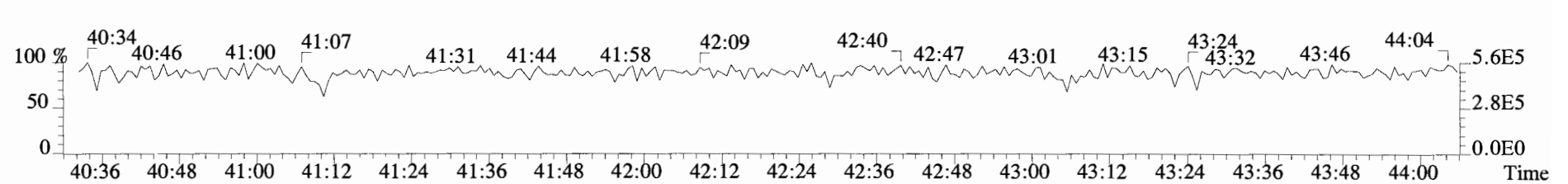
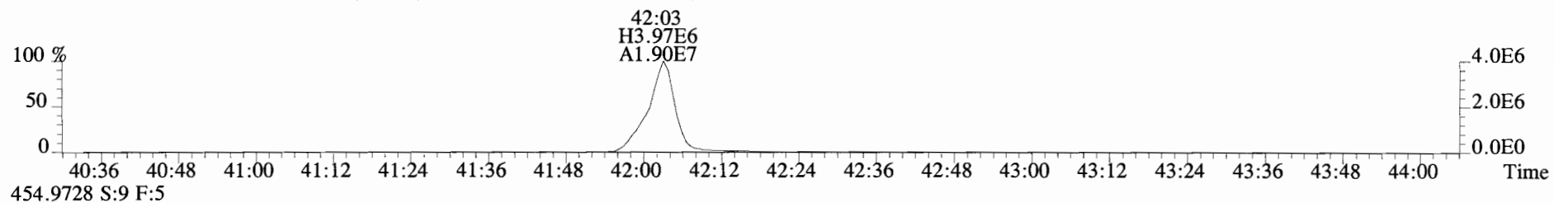
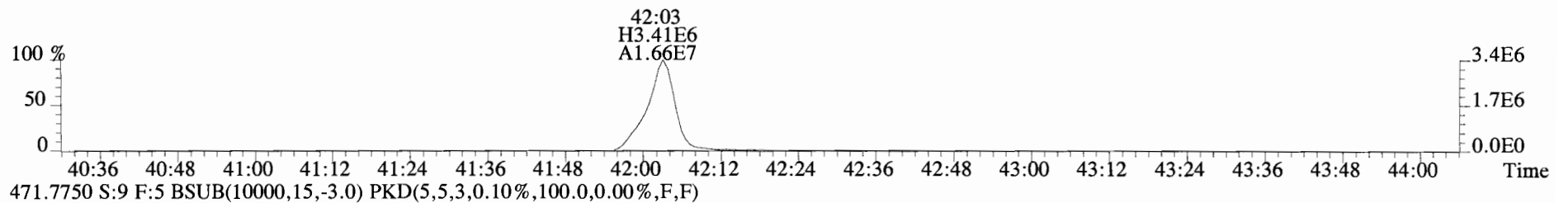
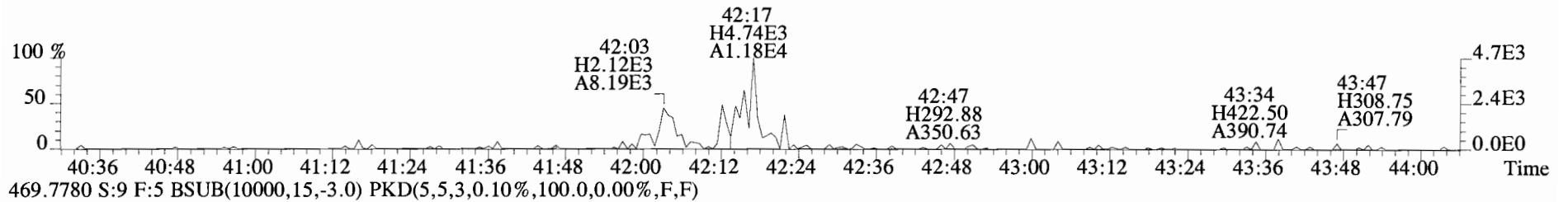
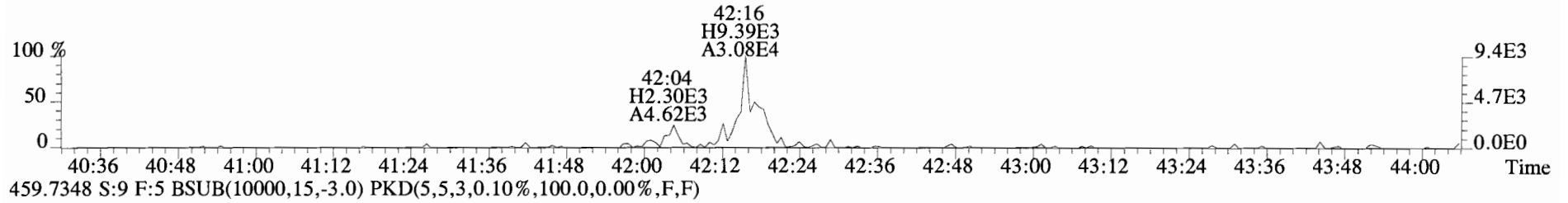
File:140912D1 #1-385 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



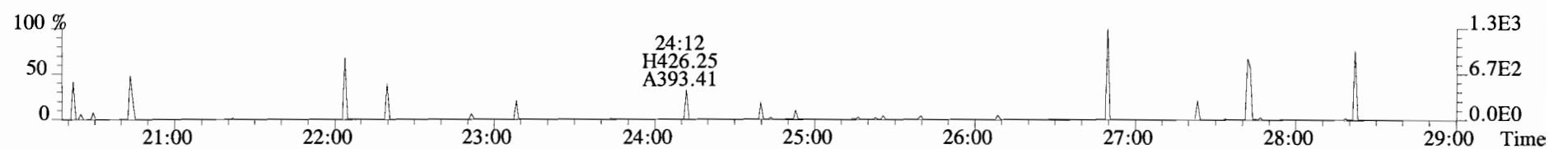
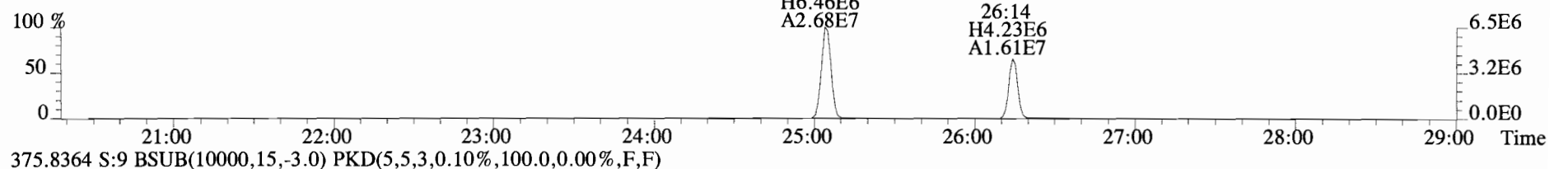
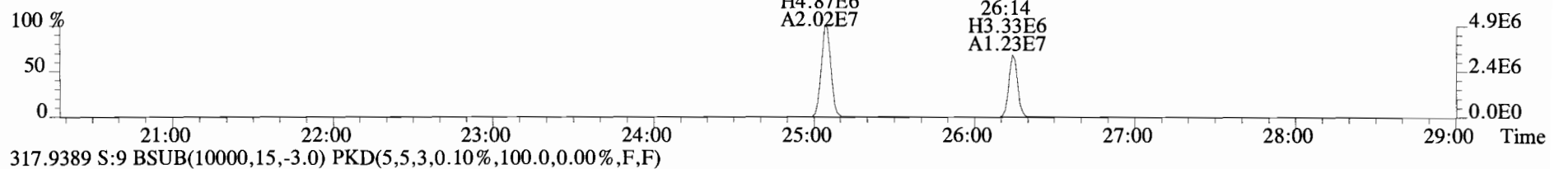
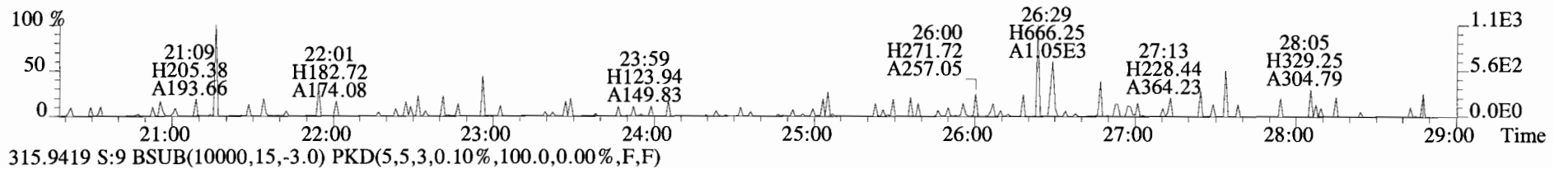
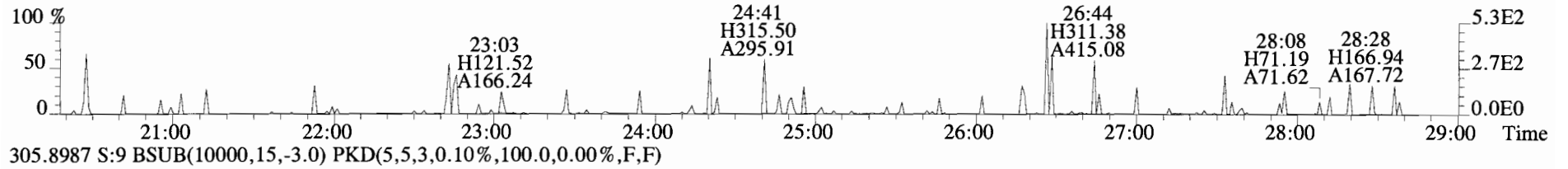
File:140912D1 #1-326 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



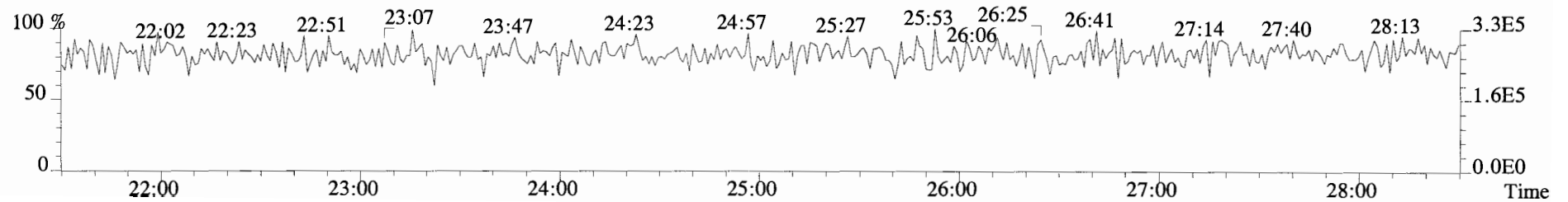
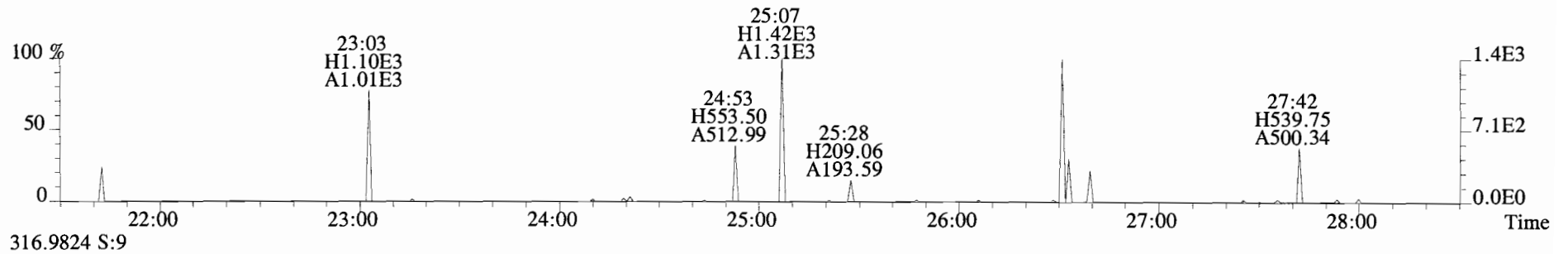
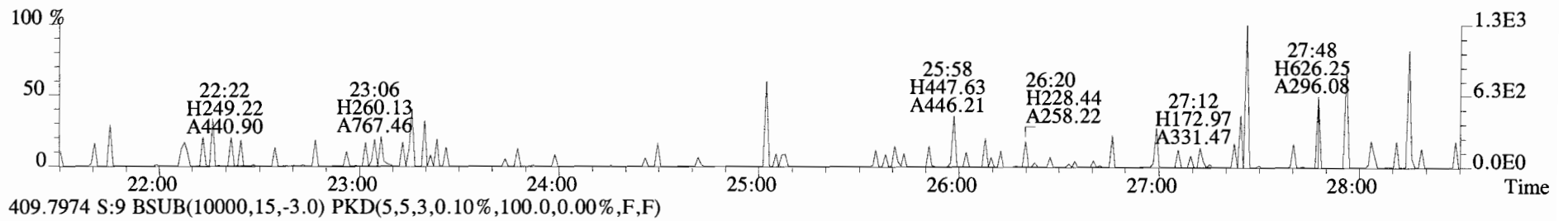
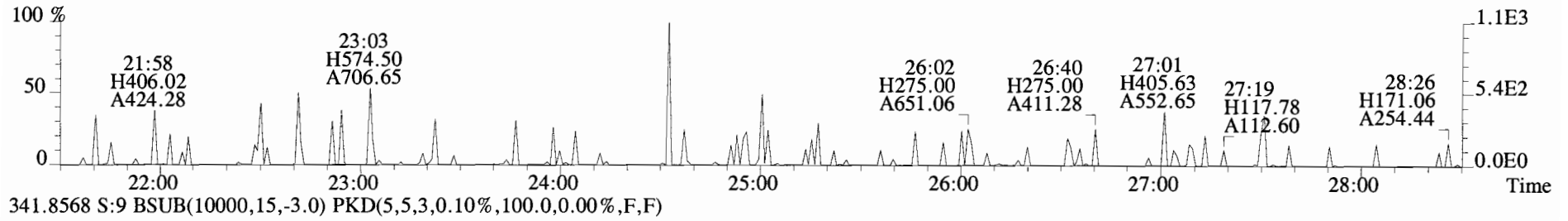
File:140912D1 #1-388 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



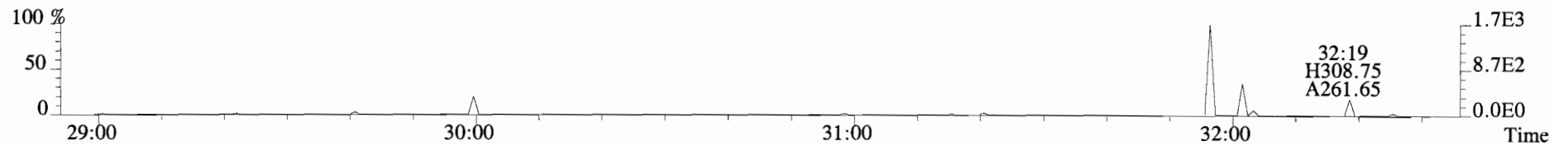
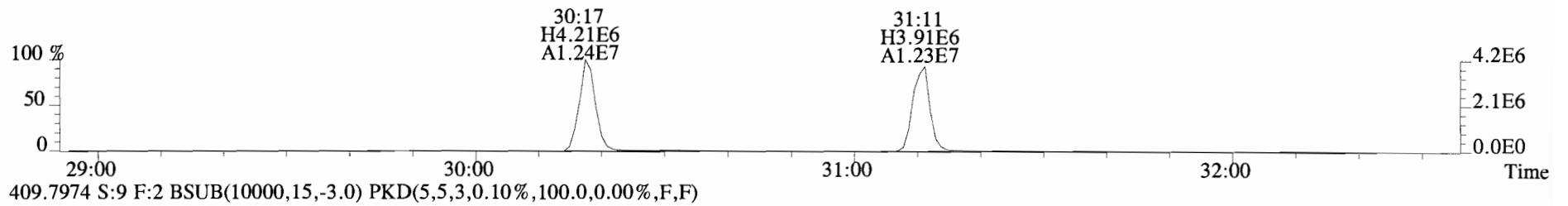
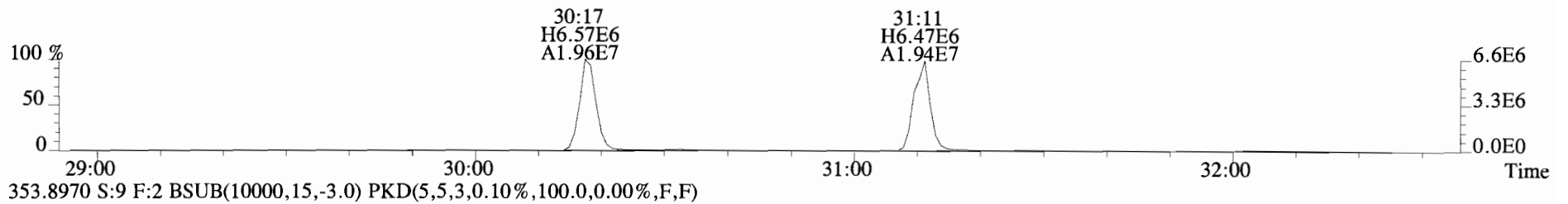
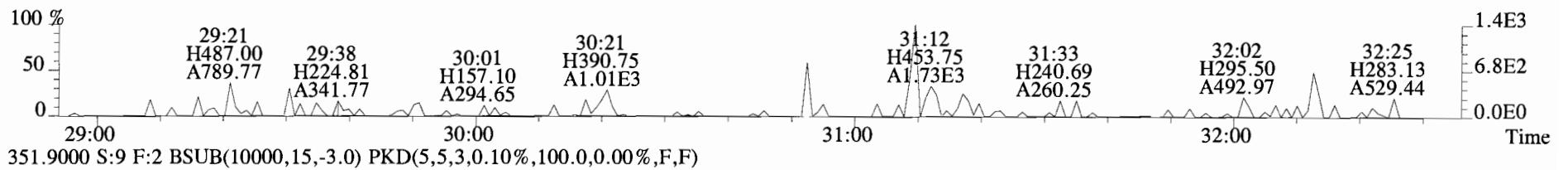
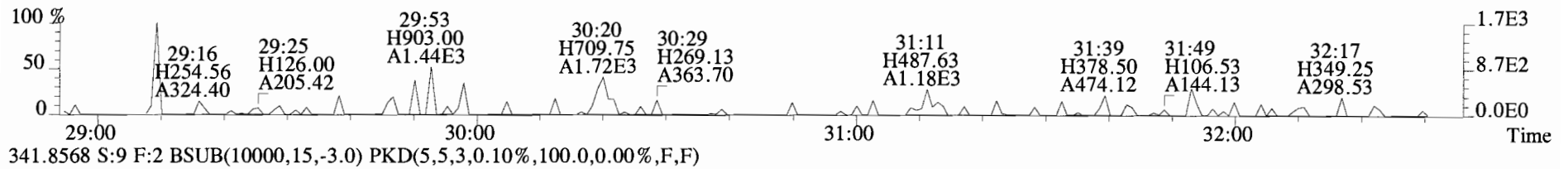
File:140912D1 #1-551 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



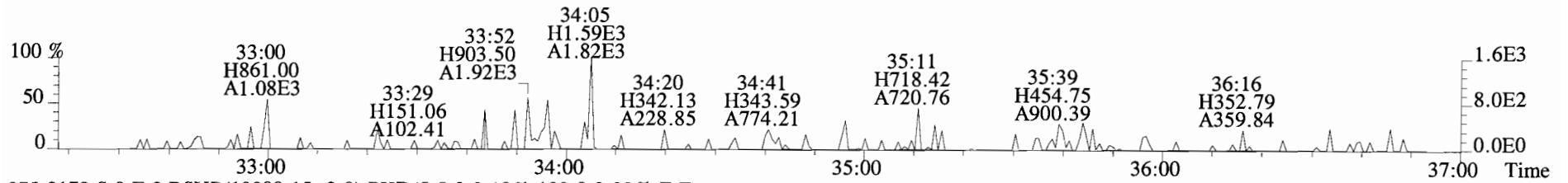
File:140912D1 #1-551 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



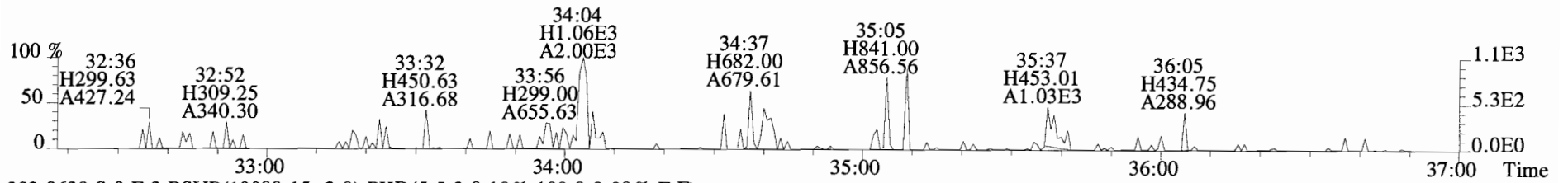
File:140912D1 #1-257 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



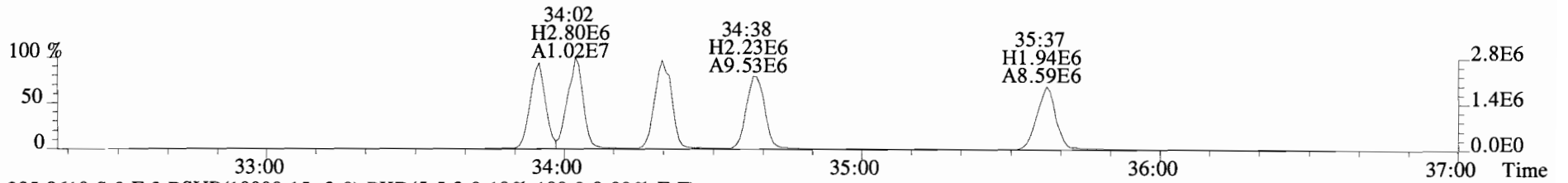
File:140912D1 #1-385 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



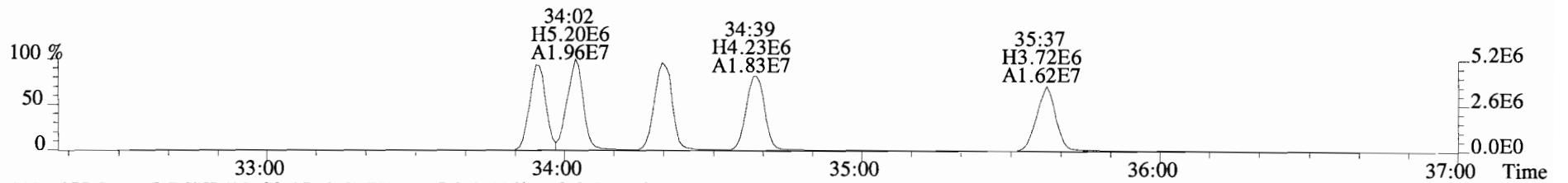
375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



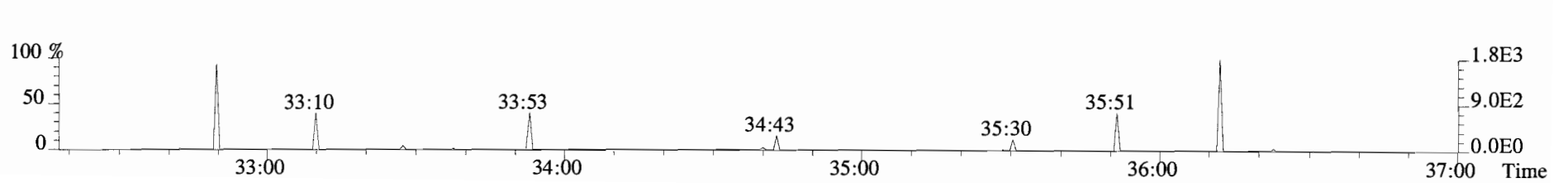
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



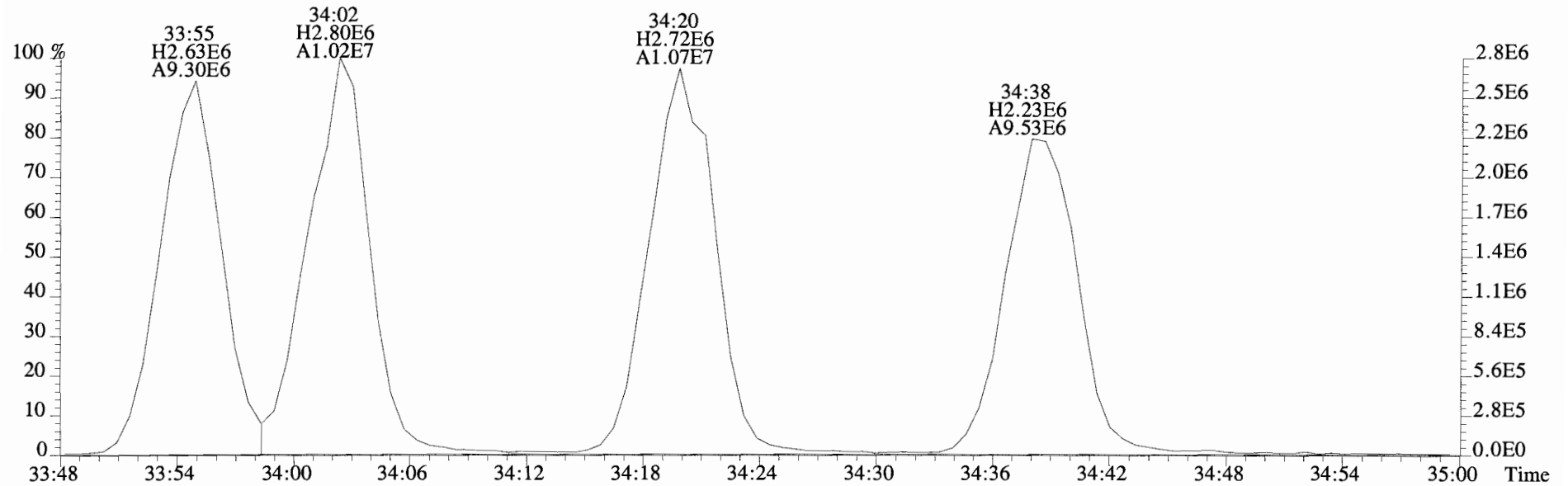
385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



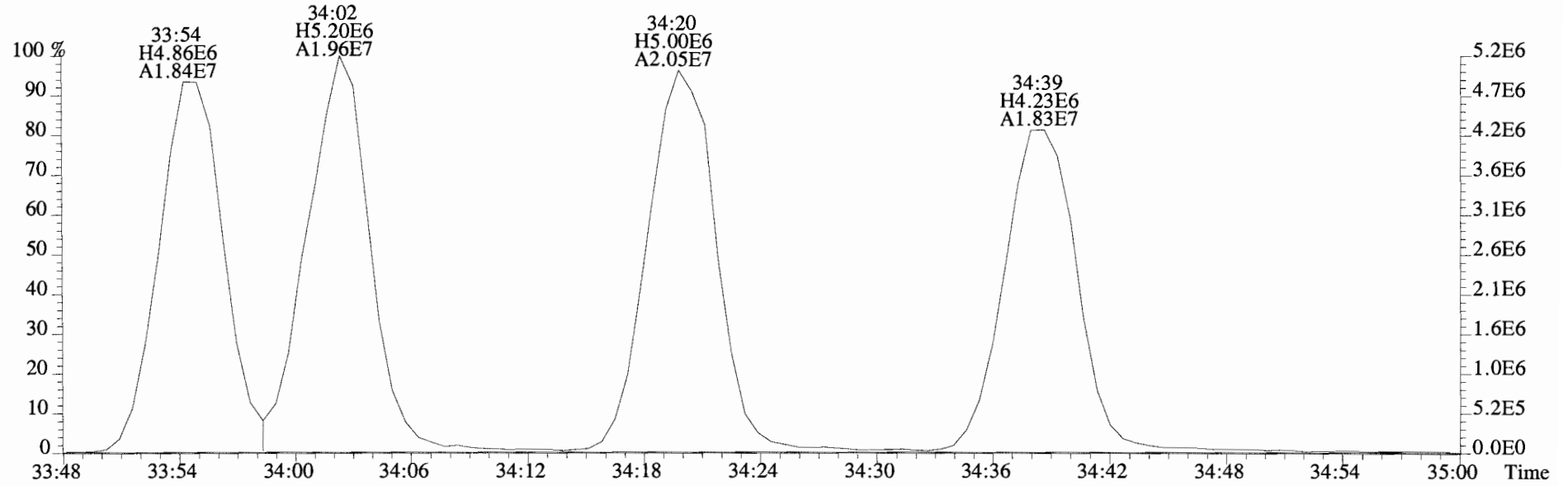
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140912D1 #1-385 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

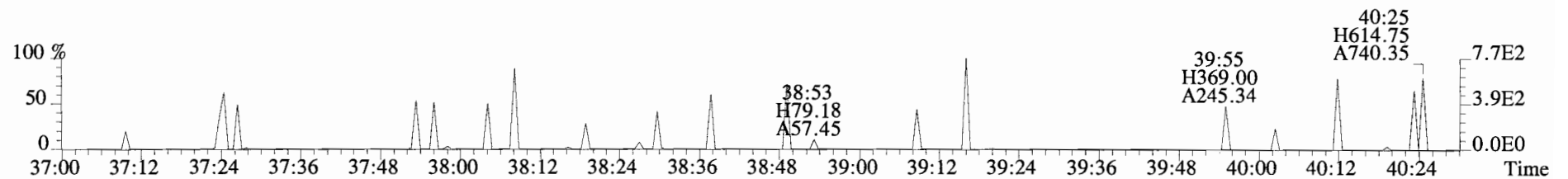
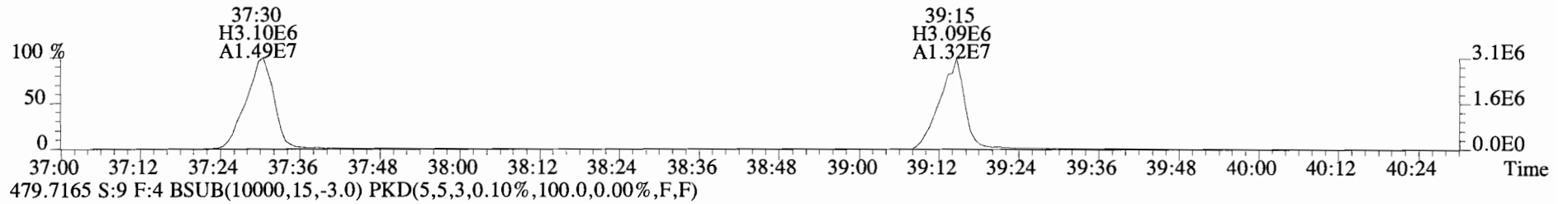
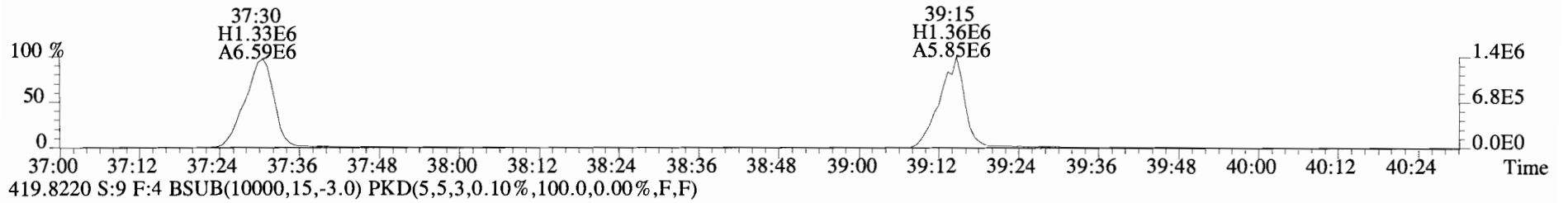
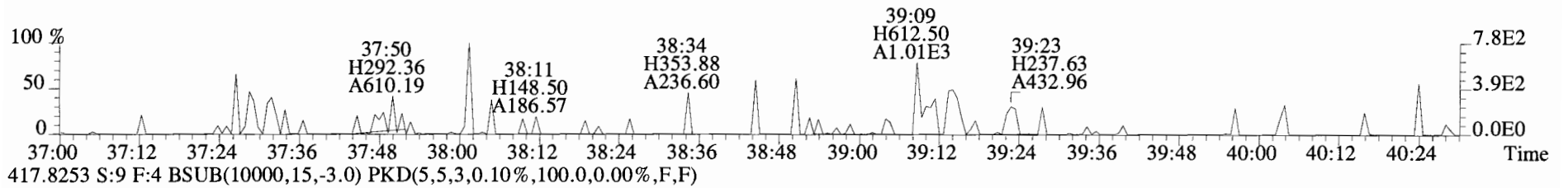
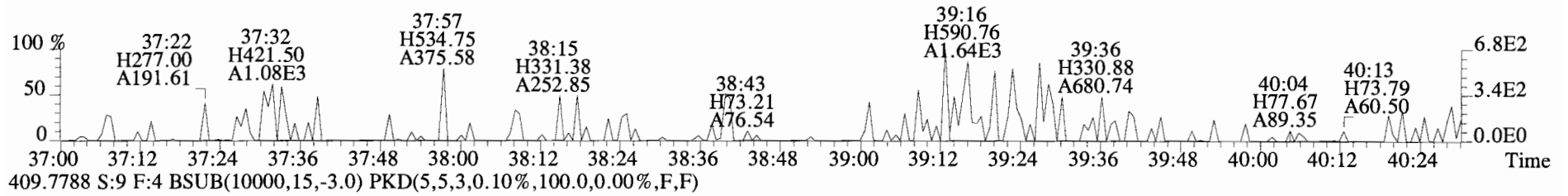


385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

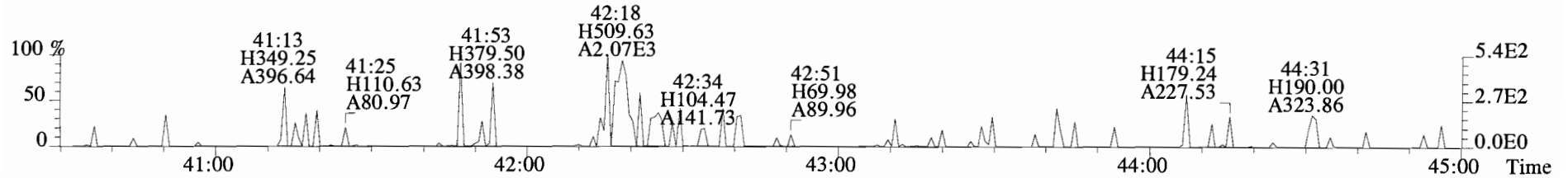




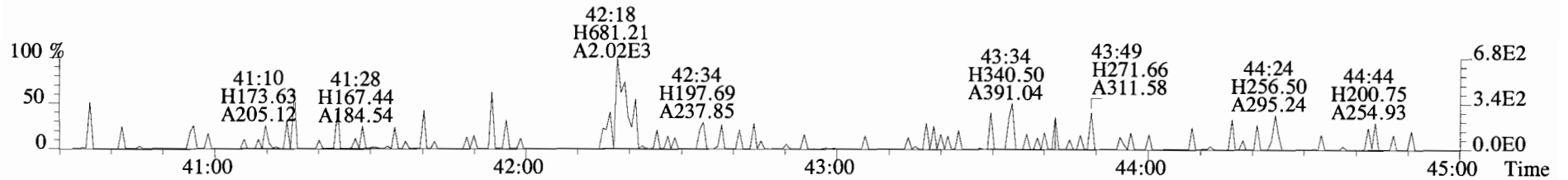
File:140912D1 #1-326 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



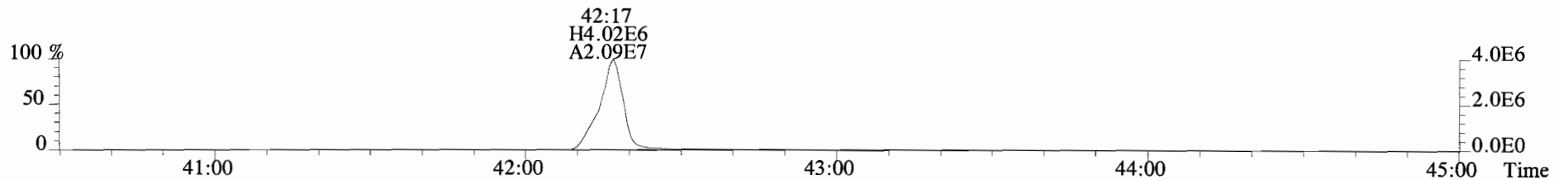
File:140912D1 #1-388 Acq:12-SEP-2014 17:31:21 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BLK1 Method Blank 5 Exp:OCDD\_DB5  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



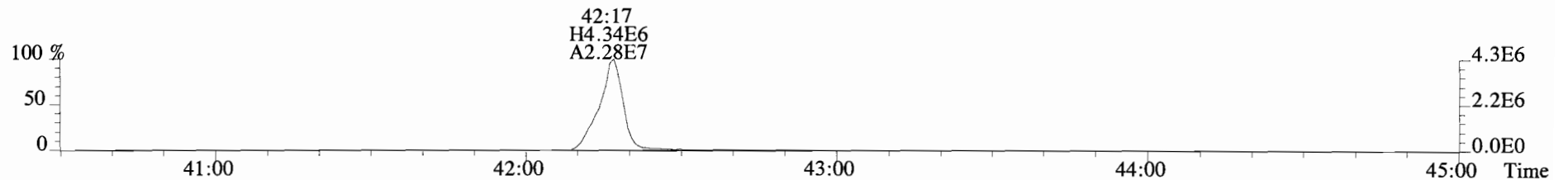
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



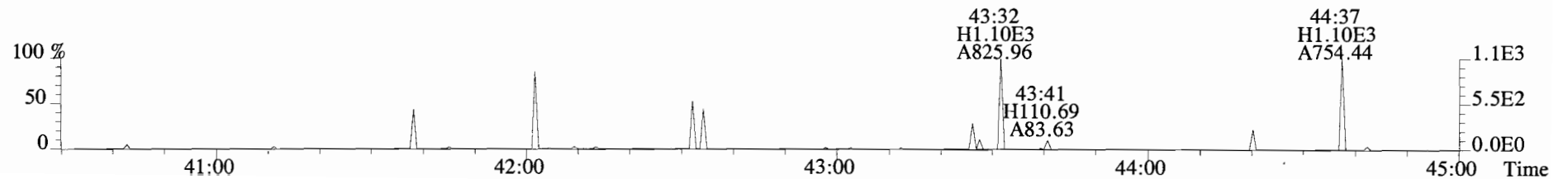
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:9 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: B4I0031-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): SOLID      OPR Data Filename: 140912D1-6

Ext. Date: 9-10-14    Shift: Day    Analysis Date: 12-SEP-14    Time: 15:06:29

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	9.57	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	48.7	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	46.9	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	49.4	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	47.7	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	49.8	35.0 - 70.0
OCDD	100	95.1	78.0 - 144.0
2,3,7,8-TCDF	10	10.2	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	48.4	40.0 - 67.0
2,3,4,7,8-PeCDF	50	50.0	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	48.5	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	48.3	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	47.9	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	48.9	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	45.5	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	46.0	39.0 - 69.0
OCDF	100	97.3	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:   9/15/14

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

Lab Name: Vista Analytical Laboratory      Extraction Batch: B4I0031-BS1

Contract No.:                      SAS No.:

Matrix (aqueous/solid/leachate): SOLID      OPR Data Filename: 140912D1-6

Ext. Date: 9-10-14    Shift: Day    Analysis Date: 12-SEP-14    Time: 15:06:29

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	81.7	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	80.6	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	89.6	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	90.1	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	88.5	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	85.7	26.0 - 166.0
13C-OCDD	200	175	26.0 - 397.0
13C-2,3,7,8-TCDF	100	72.5	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	72.1	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	76.1	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	95.3	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	79.6	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	82.9	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	84.3	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	91.4	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	92.5	20.0 - 186.0
13C-OCDF	200	168	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	33.4	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: ms

Date: 9/15/14

Client ID: OPR  
Lab ID: B4I0031-BS1

Filename: 140912D1 S:6 Acq:12-SEP-14 15:06:29  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140912D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.38e+06	0.74 y	1.03	27:02	1.001	9.5704	*	2.5	*	*	Total Tetra-Dioxins	9.83	9.87	*	*	
1,2,3,7,8-PeCDD	9.92e+06	0.60 y	0.84	31:29	1.001	48.694	*	2.5	*	*	Total Penta-Dioxins	48.8	49.3	*	*	
1,2,3,4,7,8-HxCDD	8.97e+06	1.24 y	1.05	34:50	1.001	46.875	*	2.5	*	*	Total Hexa-Dioxins	144	145	*	*	
1,2,3,6,7,8-HxCDD	9.50e+06	1.23 y	1.04	34:57	1.001	49.436	*	2.5	*	*	Total Hepta-Dioxins	50.0	50.9	*	*	
1,2,3,7,8,9-HxCDD	9.24e+06	1.25 y	0.90	35:15	1.000	47.709	*	2.5	*	*	Total Tetra-Furans	10.3	10.5	*	*	
1,2,3,4,6,7,8-HpCDD	8.30e+06	1.04 y	1.01	38:42	1.001	49.774	*	2.5	*	*	Total Penta-Furans	100.11	100.48	*	*	
OCDD	1.40e+07	0.90 y	1.04	42:04	1.000	95.129	*	2.5	*	*	Total Hexa-Furans	194	195	*	*	
											Total Hepta-Furans	91.6	92.8	*	*	
2,3,7,8-TCDF	2.78e+06	0.76 y	0.91	26:16	1.001	10.223	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.43e+07	1.62 y	0.97	30:19	1.000	48.431	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.53e+07	1.57 y	0.94	31:12	1.000	50.008	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.57e+07	1.27 y	1.32	33:56	1.000	48.482	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.52e+07	1.25 y	1.18	34:03	1.001	48.255	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.38e+07	1.25 y	1.23	34:40	1.000	47.872	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.13e+07	1.31 y	1.13	35:39	1.000	48.890	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.27e+07	1.08 y	1.57	37:31	1.000	45.498	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.13e+07	1.07 y	1.50	39:15	1.001	45.996	*	2.5	*	*						
OCDF	1.79e+07	0.92 y	1.05	42:18	1.000	97.324	*	2.5	*	*						

											Rec	Qual
IS	13C-2,3,7,8-TCDD	2.41e+07	0.79 y	1.06	27:00	1.020	81.688				81.7	
IS	13C-1,2,3,7,8-PeCDD	2.42e+07	0.64 y	1.08	31:28	1.189	80.647				80.6	
IS	13C-1,2,3,4,7,8-HxCDD	1.82e+07	1.24 y	0.74	34:49	1.014	89.601				89.6	
IS	13C-1,2,3,6,7,8-HxCDD	1.85e+07	1.26 y	0.75	34:56	1.017	90.064				90.1	
IS	13C-1,2,3,7,8,9-HxCDD	2.16e+07	1.25 y	0.89	35:14	1.026	88.508				88.5	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.65e+07	1.05 y	0.70	38:40	1.126	85.725				85.7	
IS	13C-OCDD	2.83e+07	0.87 y	0.59	42:03	1.225	175.34				87.7	
IS	13C-2,3,7,8-TCDF	2.98e+07	0.76 y	0.97	26:14	0.991	72.544				72.5	
IS	13C-1,2,3,7,8-PeCDF	3.03e+07	1.58 y	0.99	30:18	1.145	72.074				72.1	
IS	13C-2,3,4,7,8-PeCDF	3.26e+07	1.57 y	1.01	31:11	1.178	76.143				76.1	
IS	13C-1,2,3,4,7,8-HxCDF	2.46e+07	0.51 y	0.94	33:55	0.988	95.346				95.3	
IS	13C-1,2,3,6,7,8-HxCDF	2.68e+07	0.52 y	1.23	34:02	0.991	79.620				79.6	
IS	13C-2,3,4,6,7,8-HxCDF	2.35e+07	0.52 y	1.03	34:39	1.009	82.936				82.9	
IS	13C-1,2,3,7,8,9-HxCDF	2.05e+07	0.51 y	0.89	35:38	1.037	84.346				84.3	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.77e+07	0.43 y	0.71	37:30	1.092	91.404				91.4	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.63e+07	0.44 y	0.64	39:14	1.143	92.457				92.5	
IS	13C-OCDF	3.50e+07	0.91 y	0.76	42:17	1.231	168.14				84.1	

C/Up	37C1-2,3,7,8-TCDD	9.66e+06		1.04	27:02	1.021	33.409				83.5	
RS/RT	13C-1,2,3,4-TCDD	2.77e+07	0.79 y	1.00	26:28	*	100.00					
RS	13C-1,2,3,4-TCDF	4.25e+07	0.74 y	1.00	25:04	*	100.00					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.74e+07	0.52 y	1.00	34:20	*	100.00					

Integrations Reviewed  
by Analyst: (M) by Analyst: 6/2  
Date: 9/15/14 Date: 9/16/14

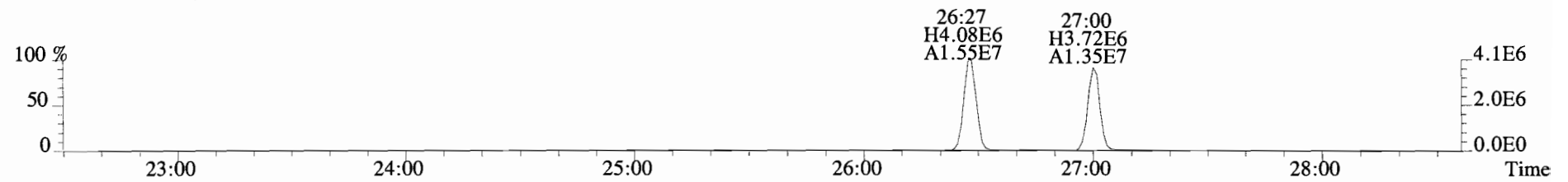
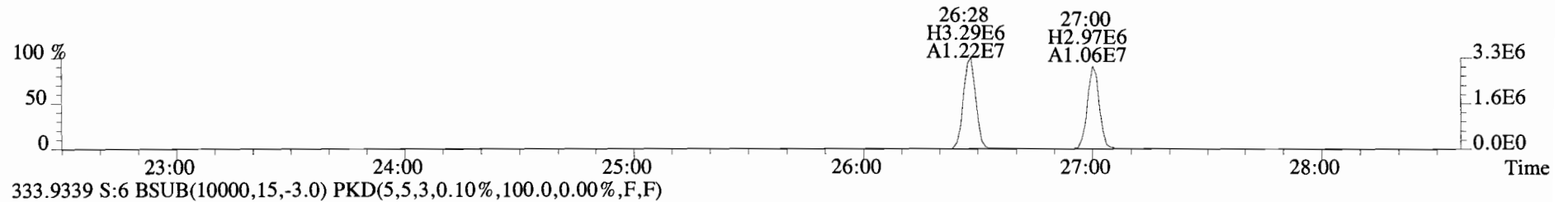
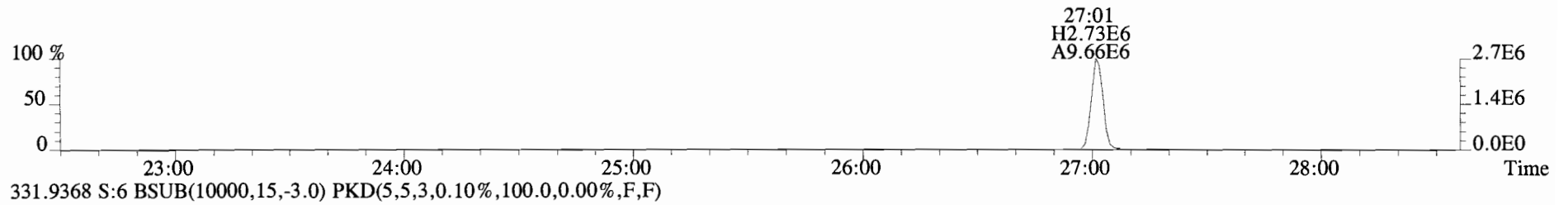
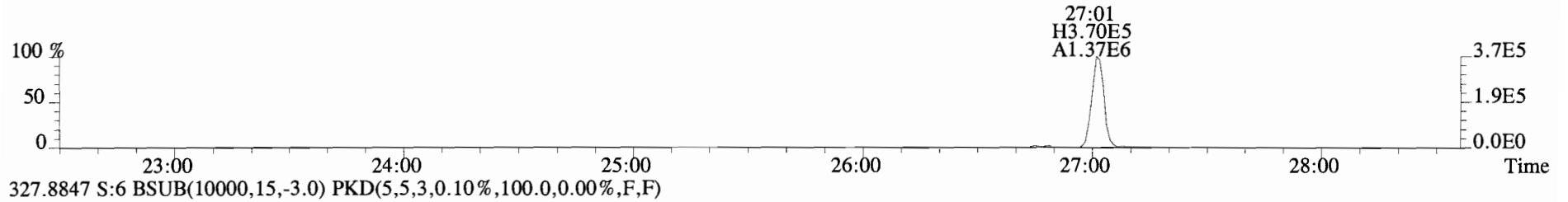
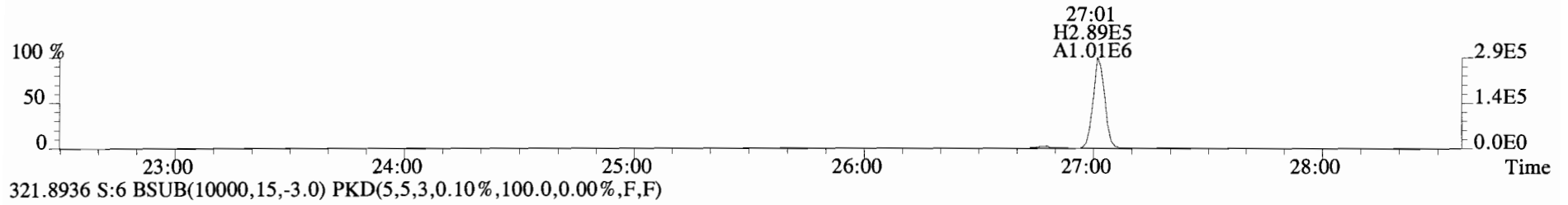
Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.38e+06	0.74 y	1.03	27:02	1.001	38.281		*	2.5	*	Total Tetra-Dioxins	39.3	39.5	*	*	
1,2,3,7,8-PeCDD	9.92e+06	0.60 y	0.84	31:29	1.001	194.78		*	2.5	*	Total Penta-Dioxins	195	197	*	*	
1,2,3,4,7,8-HxCDD	8.97e+06	1.24 y	1.05	34:50	1.001	187.50		*	2.5	*	Total Hexa-Dioxins	577	579	*	*	
1,2,3,6,7,8-HxCDD	9.50e+06	1.23 y	1.04	34:57	1.001	197.75		*	2.5	*	Total Hepta-Dioxins	200	204	*	*	
1,2,3,7,8,9-HxCDD	9.24e+06	1.25 y	0.90	35:15	1.000	190.83		*	2.5	*	Total Tetra-Furans	41.2	42.0	*	*	
1,2,3,4,6,7,8-HpCDD	8.30e+06	1.04 y	1.01	38:42	1.001	199.10		*	2.5	*	Total Penta-Furans	400.42	401.92	*	*	
OCDD	1.40e+07	0.90 y	1.04	42:04	1.000	380.52		*	2.5	*	Total Hexa-Furans	775	782	*	*	
											Total Hepta-Furans	366	371	*	*	
2,3,7,8-TCDF	2.78e+06	0.76 y	0.91	26:16	1.001	40.892		*	2.5	*						
1,2,3,7,8-PeCDF	1.43e+07	1.62 y	0.97	30:19	1.000	193.72		*	2.5	*						
2,3,4,7,8-PeCDF	1.53e+07	1.57 y	0.94	31:12	1.000	200.03		*	2.5	*						
1,2,3,4,7,8-HxCDF	1.57e+07	1.27 y	1.32	33:56	1.000	193.93		*	2.5	*						
1,2,3,6,7,8-HxCDF	1.52e+07	1.25 y	1.18	34:03	1.001	193.02		*	2.5	*						
2,3,4,6,7,8-HxCDF	1.38e+07	1.25 y	1.23	34:40	1.000	191.49		*	2.5	*						
1,2,3,7,8,9-HxCDF	1.13e+07	1.31 y	1.13	35:39	1.000	195.56		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	1.27e+07	1.08 y	1.57	37:31	1.000	181.99		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	1.13e+07	1.07 y	1.50	39:15	1.001	183.98		*	2.5	*						
OCDF	1.79e+07	0.92 y	1.05	42:18	1.000	389.30		*	2.5	*						

											Rec	Qual
IS	13C-2,3,7,8-TCDD	2.41e+07	0.79 y	1.06	27:00	1.020	326.75				81.7	
IS	13C-1,2,3,7,8-PeCDD	2.42e+07	0.64 y	1.08	31:28	1.189	322.59				80.6	
IS	13C-1,2,3,4,7,8-HxCDD	1.82e+07	1.24 y	0.74	34:49	1.014	358.41				89.6	
IS	13C-1,2,3,6,7,8-HxCDD	1.85e+07	1.26 y	0.75	34:56	1.017	360.26				90.1	
IS	13C-1,2,3,7,8,9-HxCDD	2.16e+07	1.25 y	0.89	35:14	1.026	354.03				88.5	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.65e+07	1.05 y	0.70	38:40	1.126	342.90				85.7	
IS	13C-OCDD	2.83e+07	0.87 y	0.59	42:03	1.225	701.37				87.7	
IS	13C-2,3,7,8-TCDF	2.98e+07	0.76 y	0.97	26:14	0.991	290.17				72.5	
IS	13C-1,2,3,7,8-PeCDF	3.03e+07	1.58 y	0.99	30:18	1.145	288.29				72.1	
IS	13C-2,3,4,7,8-PeCDF	3.26e+07	1.57 y	1.01	31:11	1.178	304.57				76.1	
IS	13C-1,2,3,4,7,8-HxCDF	2.46e+07	0.51 y	0.94	33:55	0.988	381.38				95.3	
IS	13C-1,2,3,6,7,8-HxCDF	2.68e+07	0.52 y	1.23	34:02	0.991	318.48				79.6	
IS	13C-2,3,4,6,7,8-HxCDF	2.35e+07	0.52 y	1.03	34:39	1.009	331.74				82.9	
IS	13C-1,2,3,7,8,9-HxCDF	2.05e+07	0.51 y	0.89	35:38	1.037	337.38				84.3	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.77e+07	0.43 y	0.71	37:30	1.092	365.62				91.4	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.63e+07	0.44 y	0.64	39:14	1.143	369.83				92.5	
IS	13C-OCDF	3.50e+07	0.91 y	0.76	42:17	1.231	672.57				84.1	

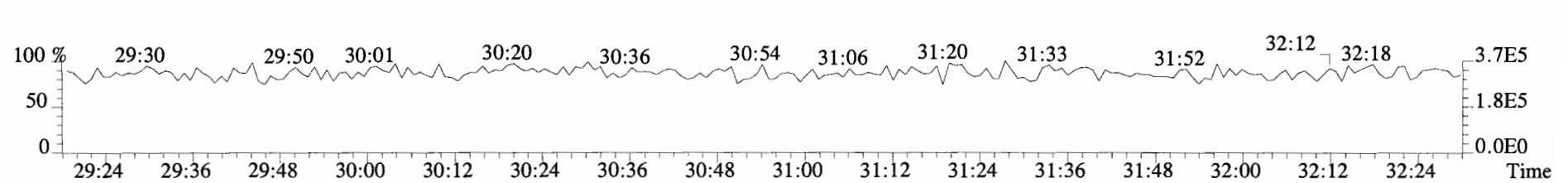
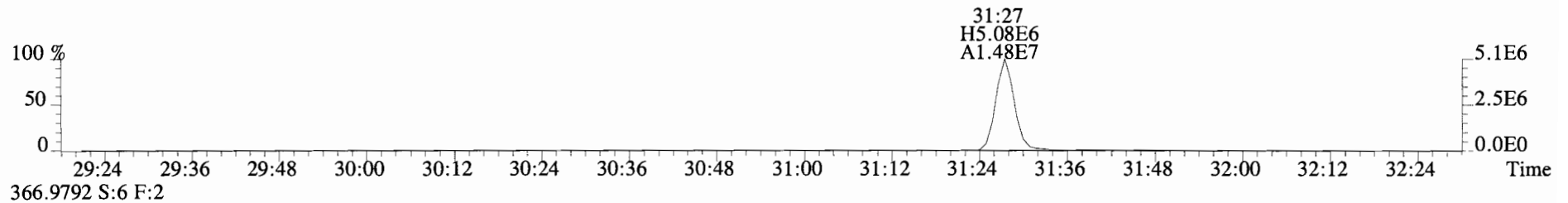
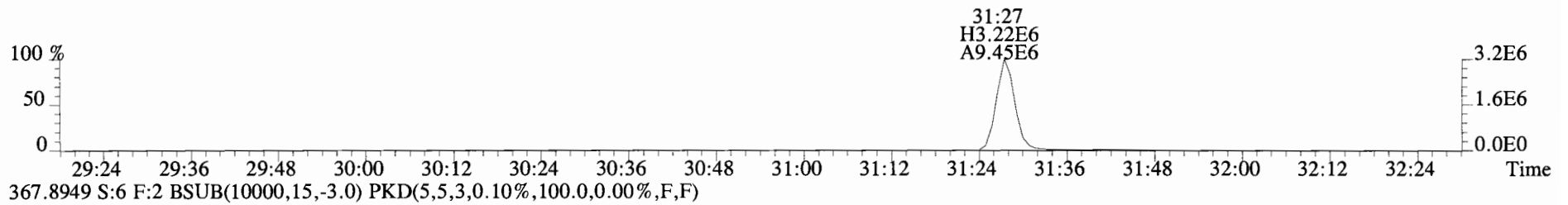
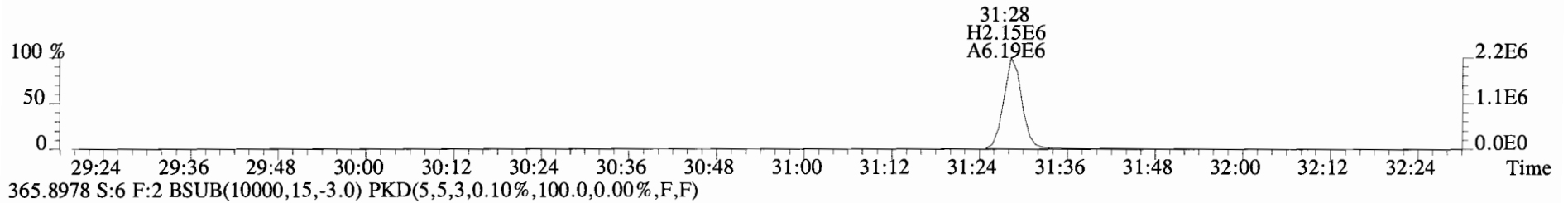
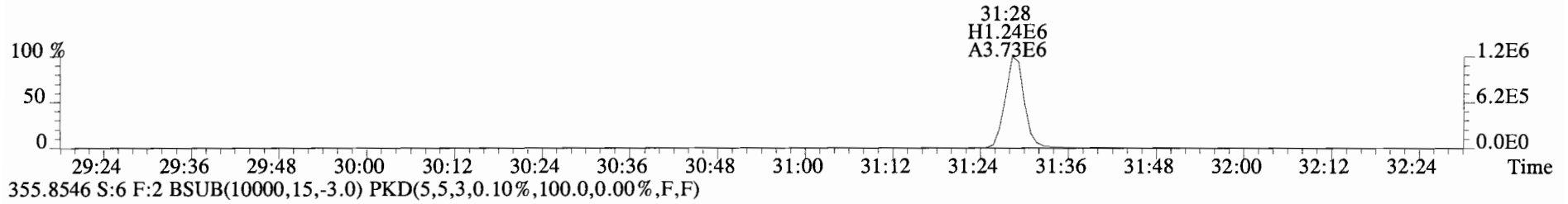
C/Up	37C1-2,3,7,8-TCDD	9.66e+06		1.04	27:02	1.021	133.64				83.5	
RS/RT	13C-1,2,3,4-TCDD	2.77e+07	0.79 y	1.00	26:28	*	400.00					
RS	13C-1,2,3,4-TCDF	4.25e+07	0.74 y	1.00	25:04	*	400.00					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.74e+07	0.52 y	1.00	34:20	*	400.00					

Integrations      Reviewed  
 by  
 Analyst: SM      Analyst: AS  
 Date: 9/15/14      Date: 9/17/14

File:140912D1 #1-551 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

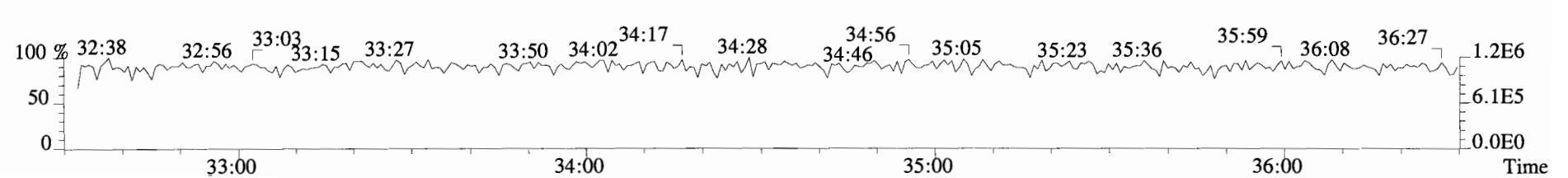
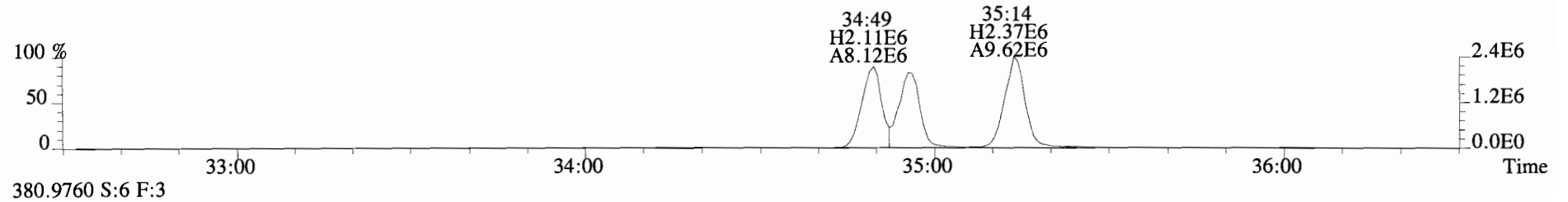
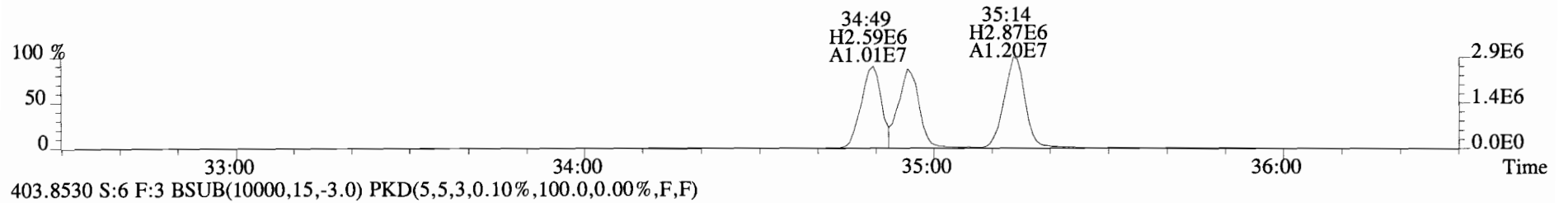
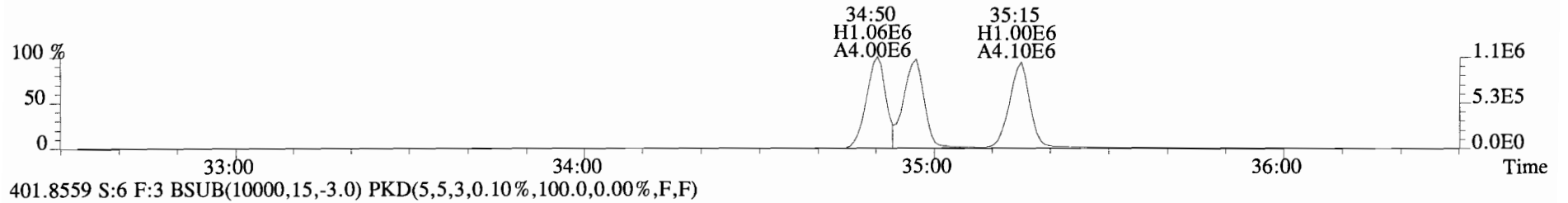
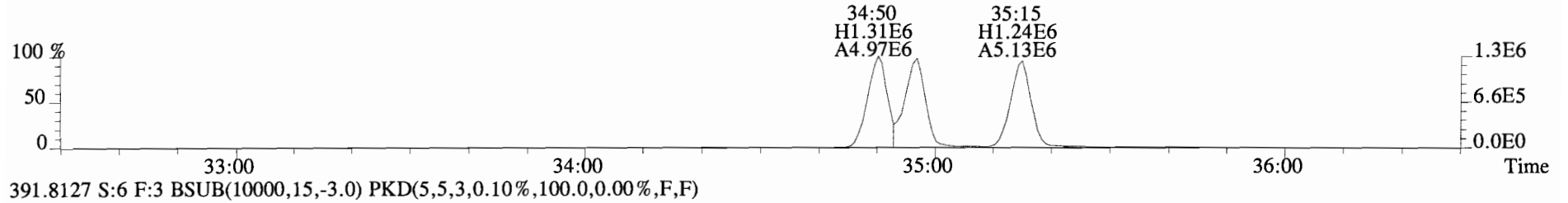


File:140912D1 #1-257 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

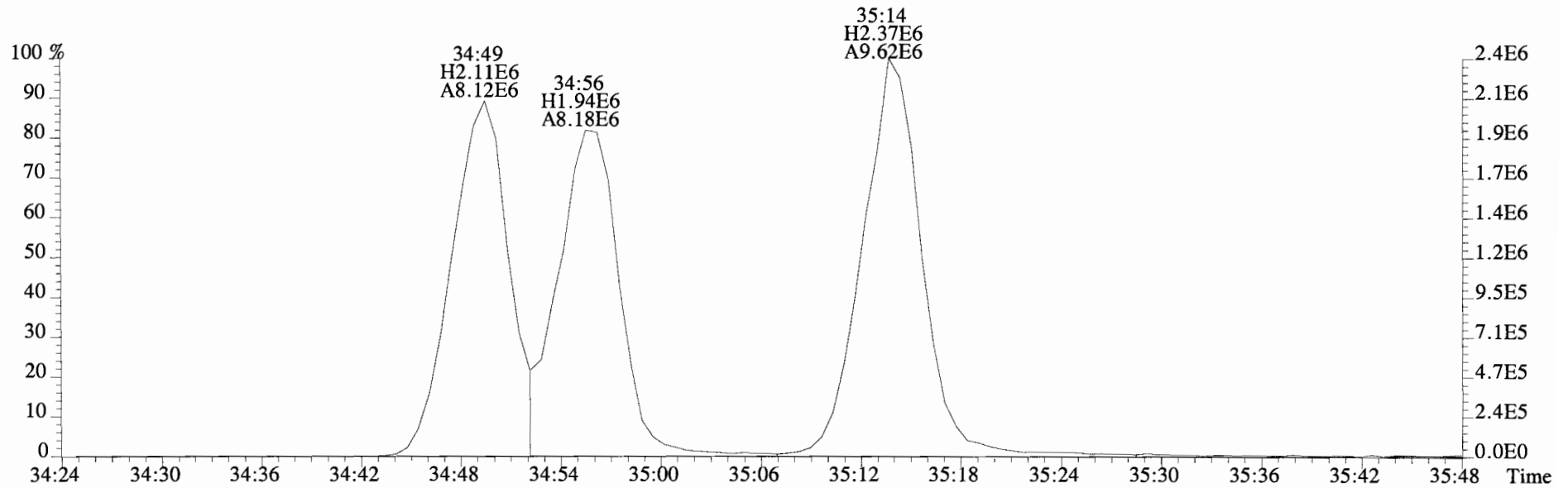
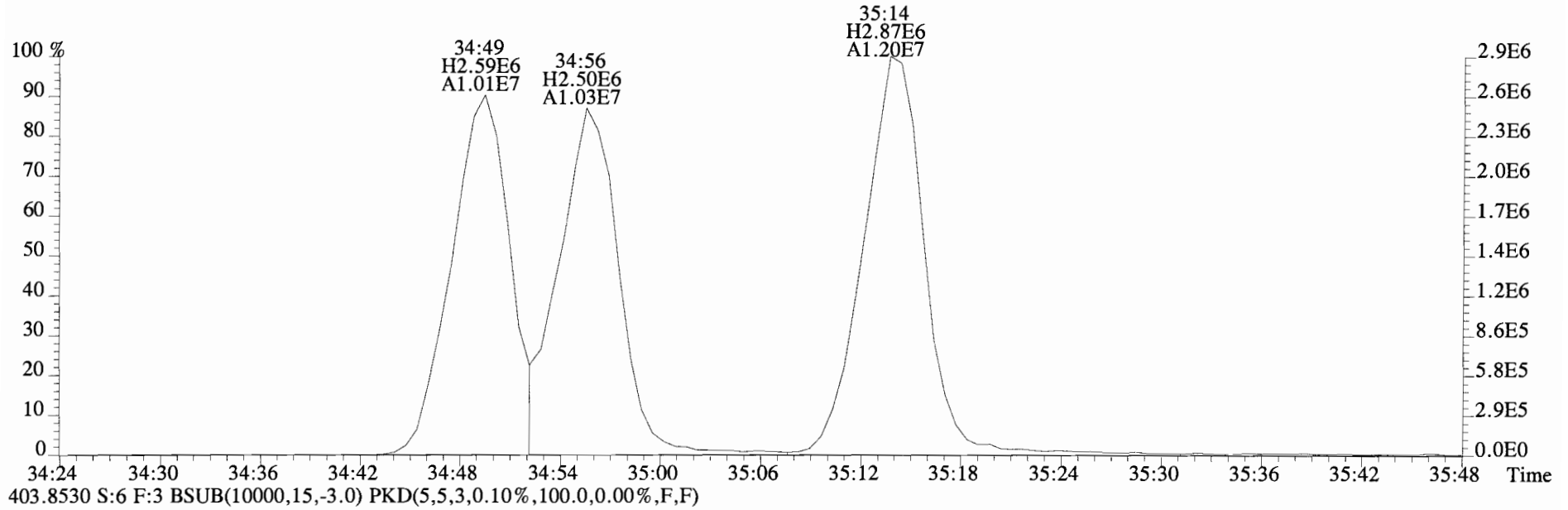




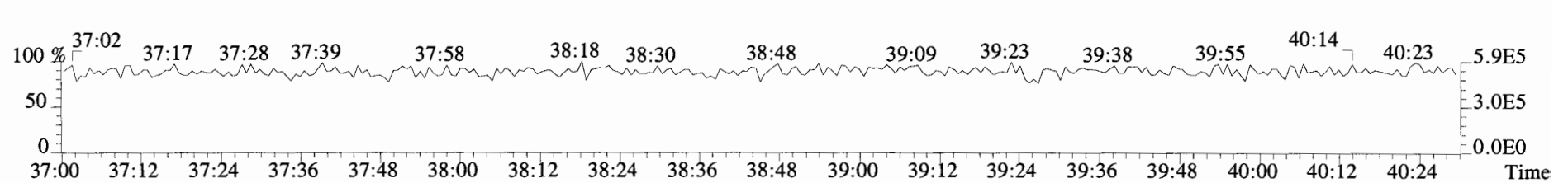
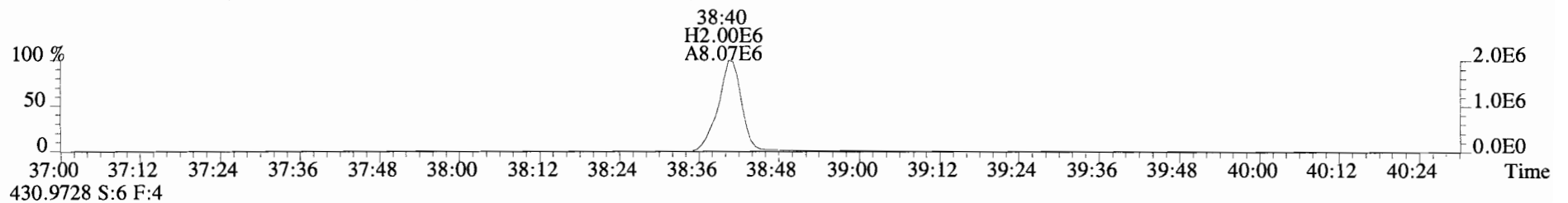
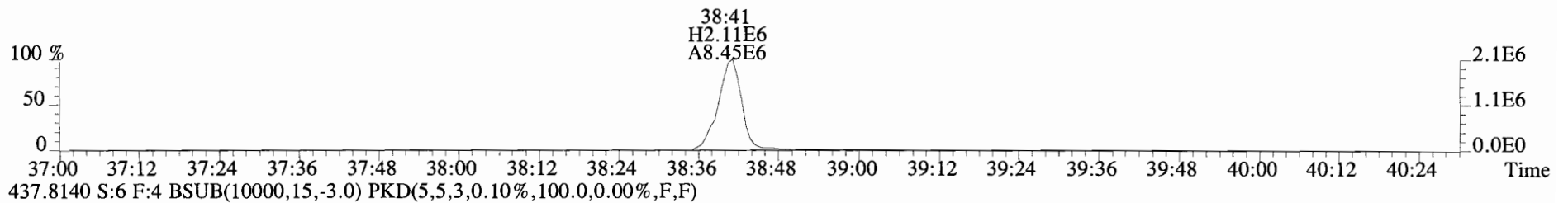
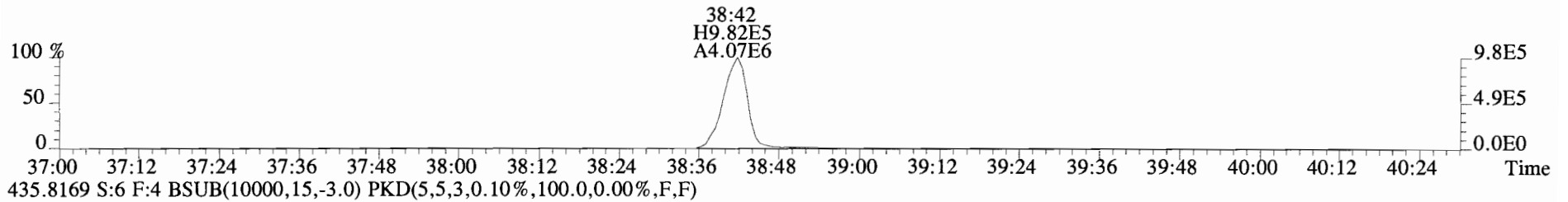
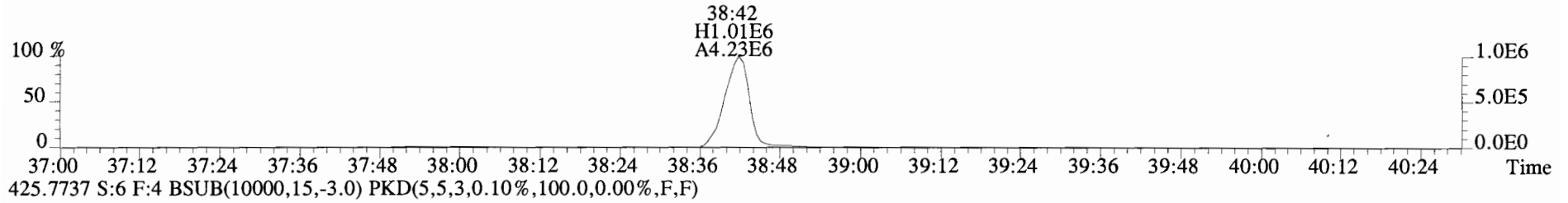
File:140912D1 #1-385 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



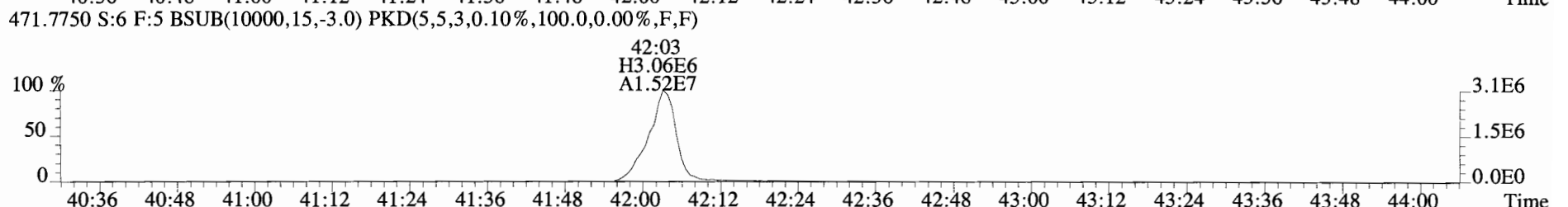
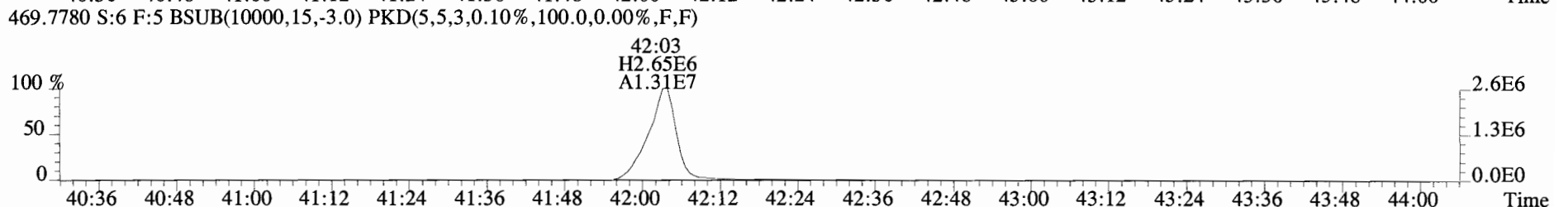
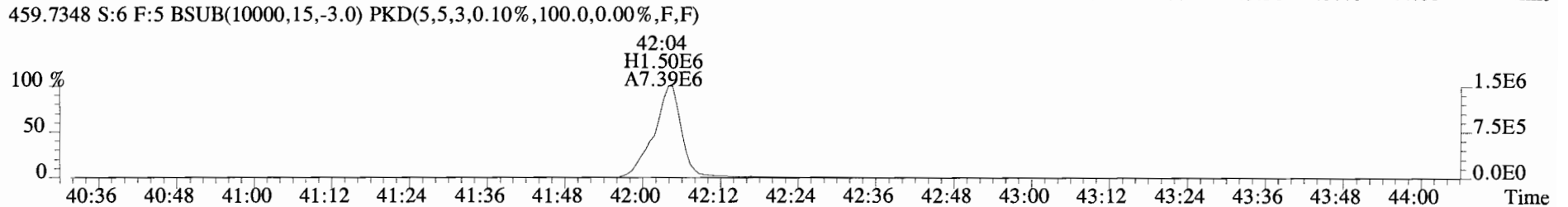
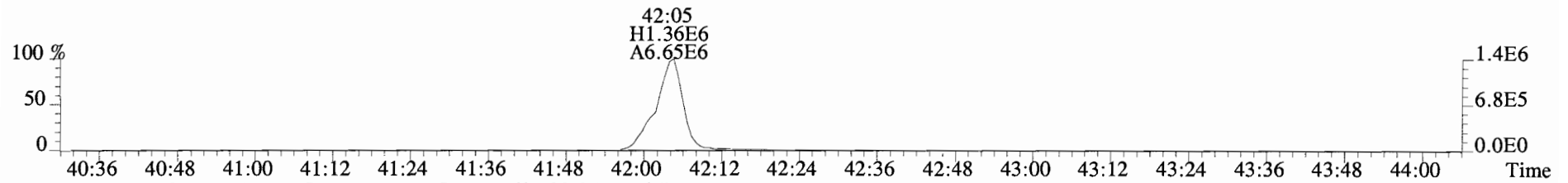
File:140912D1 #1-385 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



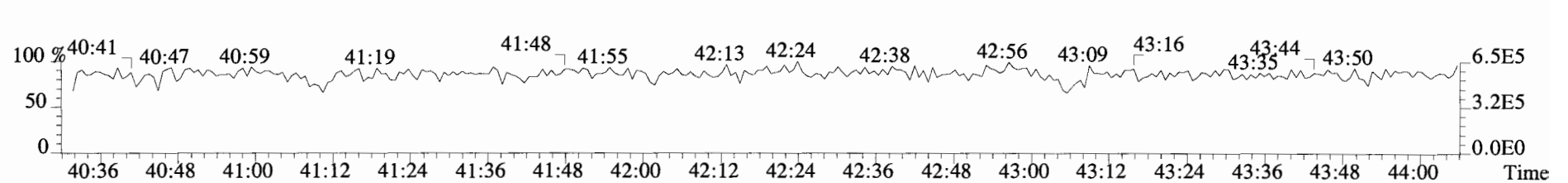
File:140912D1 #1-325 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



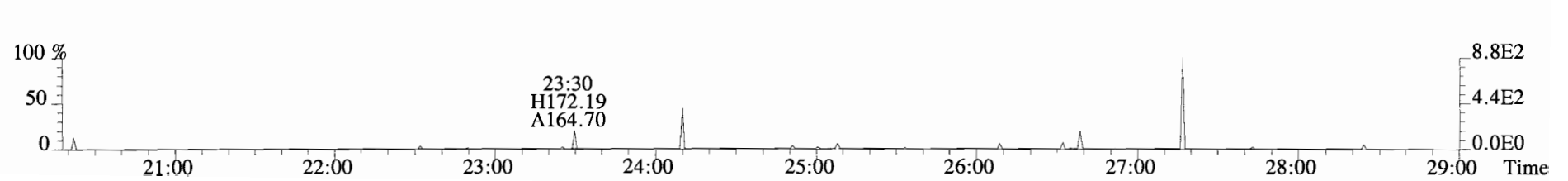
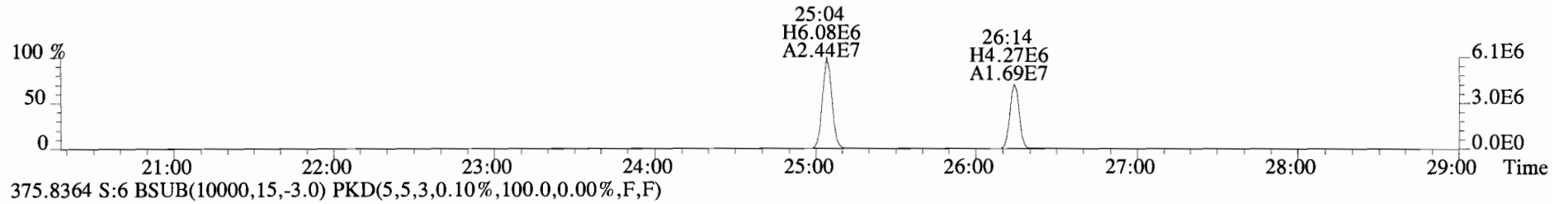
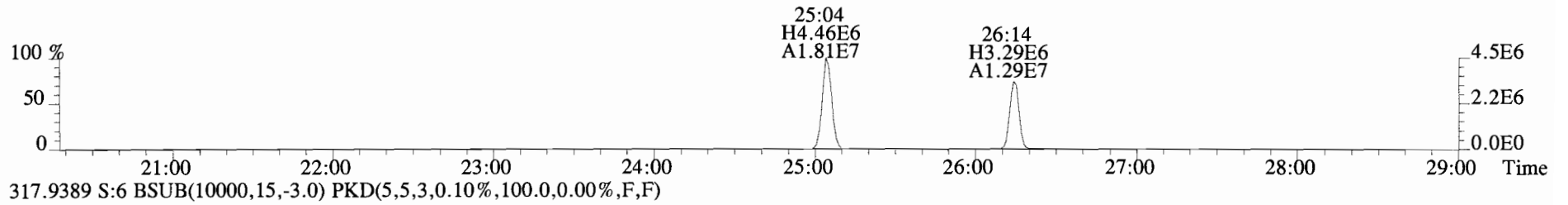
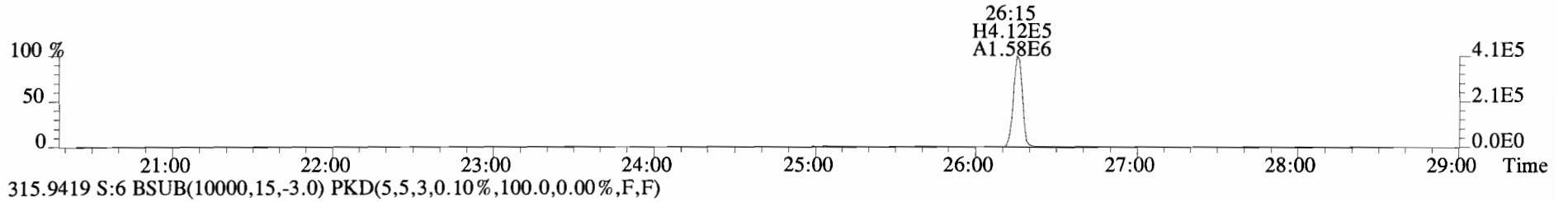
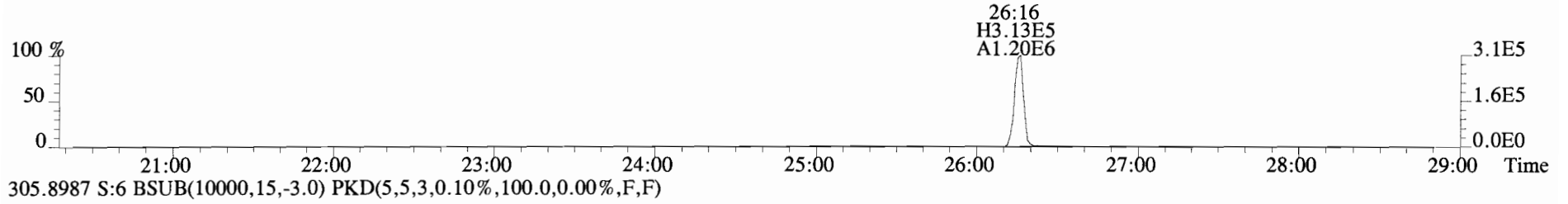
File:140912D1 #1-389 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410031-BS1 OPR 5 Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



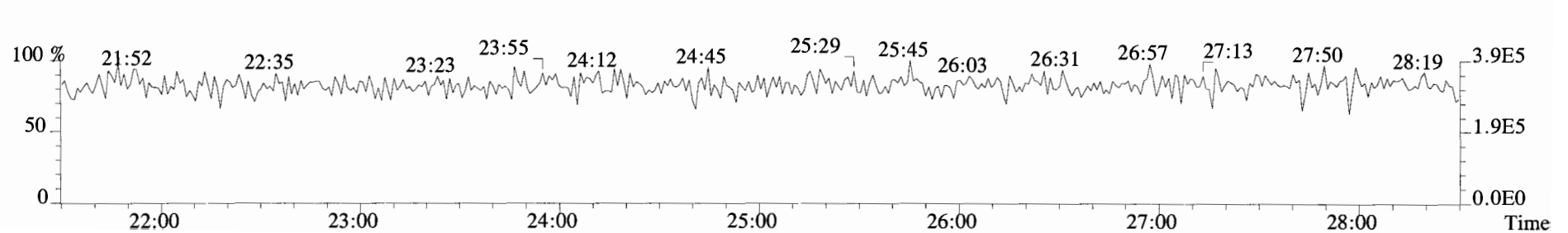
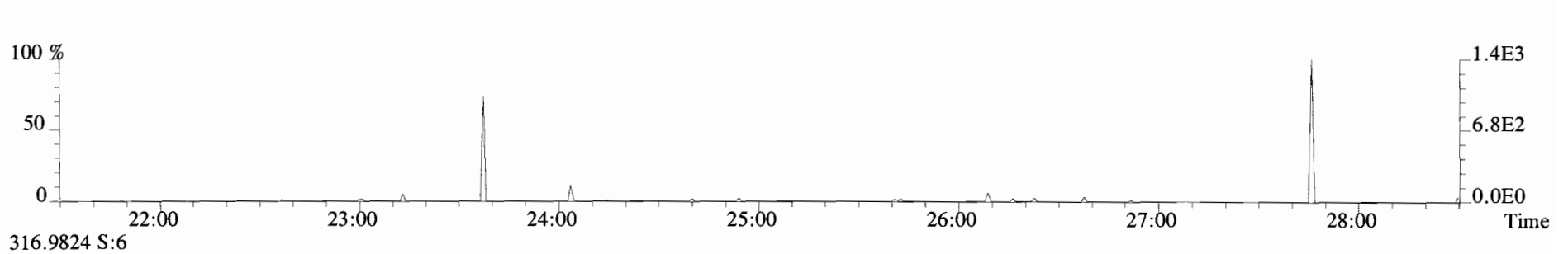
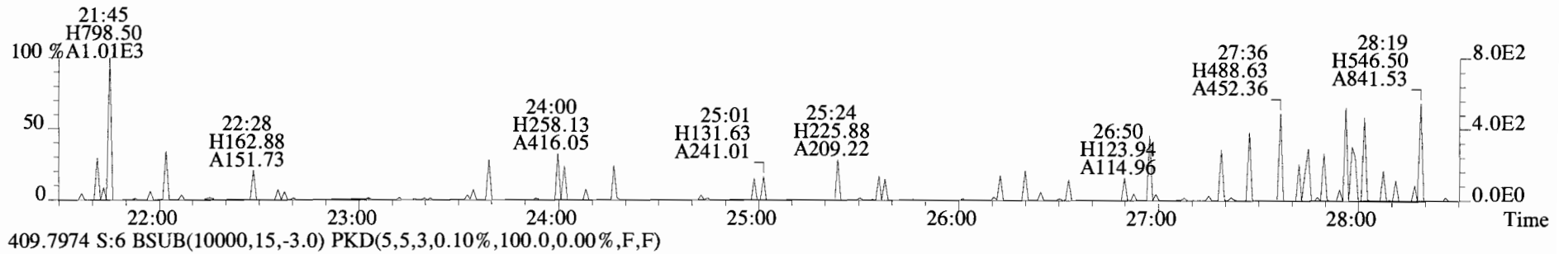
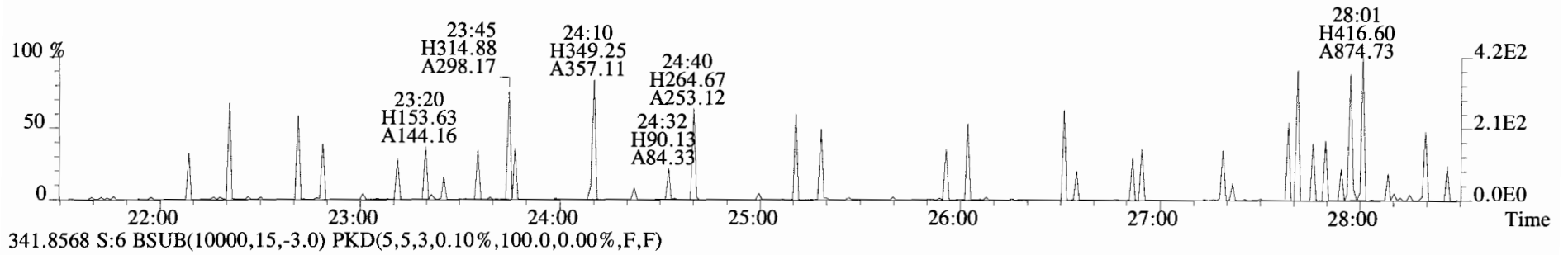
454.9728 S:6 F:5



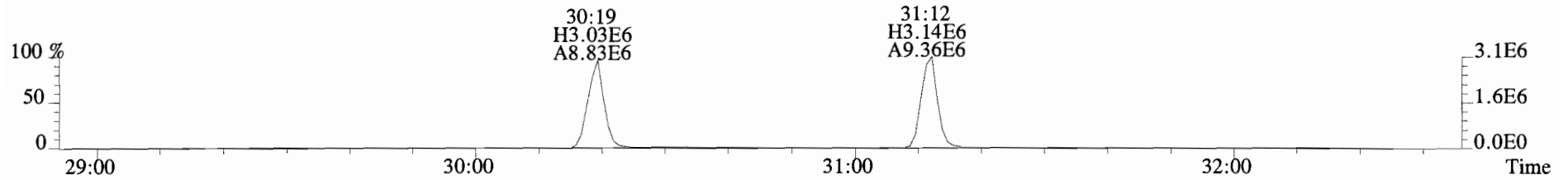
File:140912D1 #1-551 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



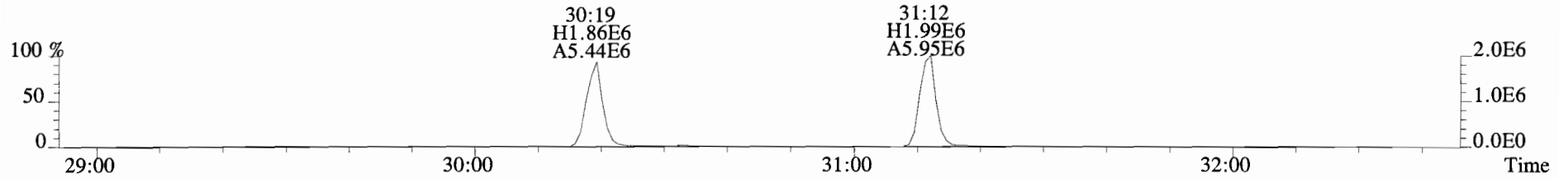
File:140912D1 #1-551 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



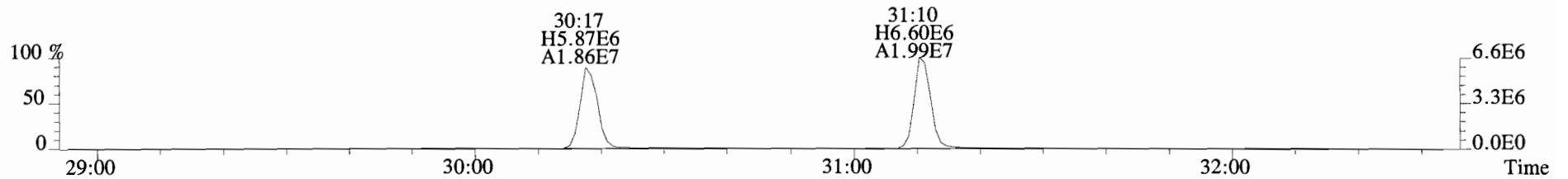
File:140912D1 #1-257 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



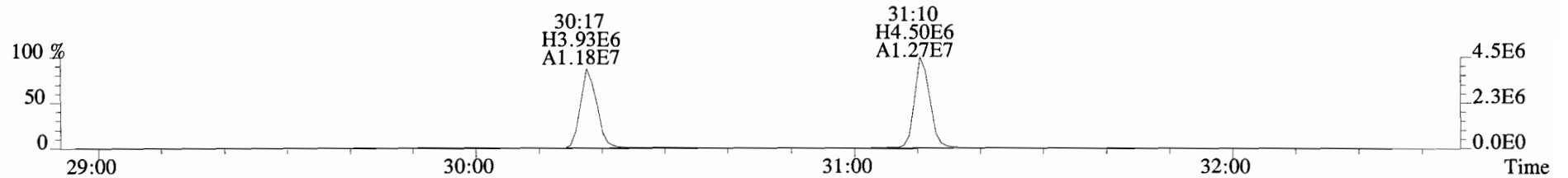
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



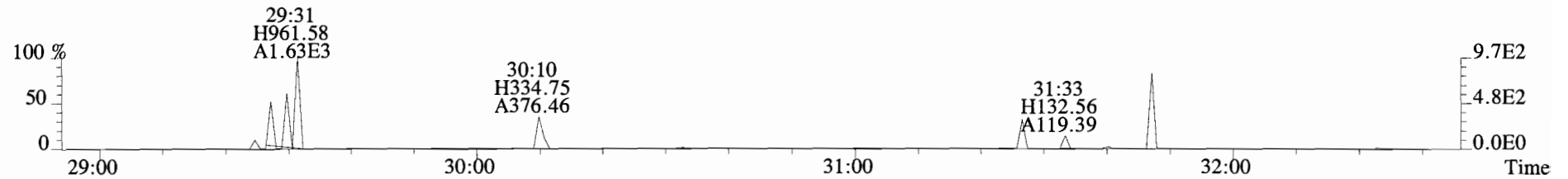
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



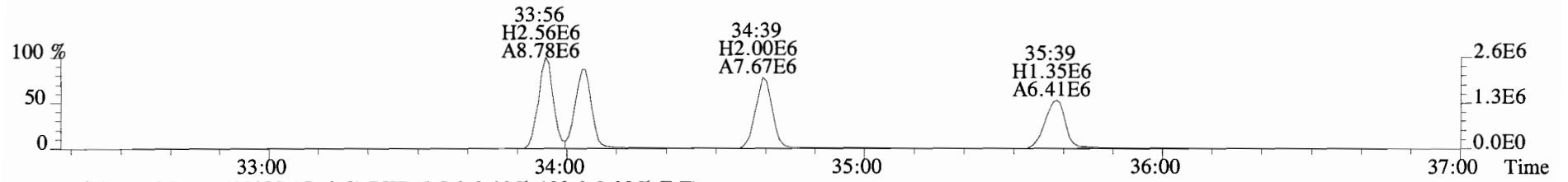
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



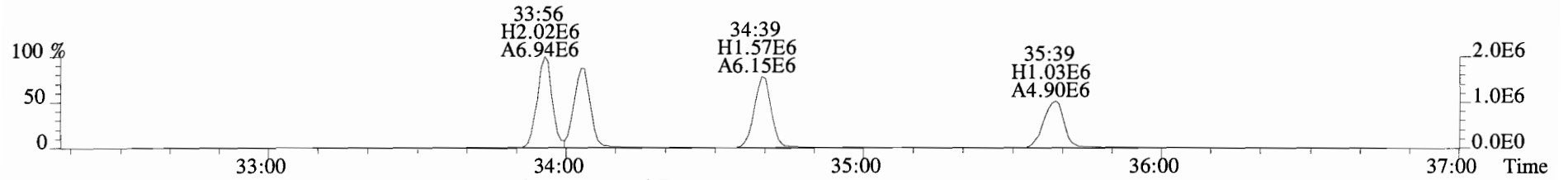
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



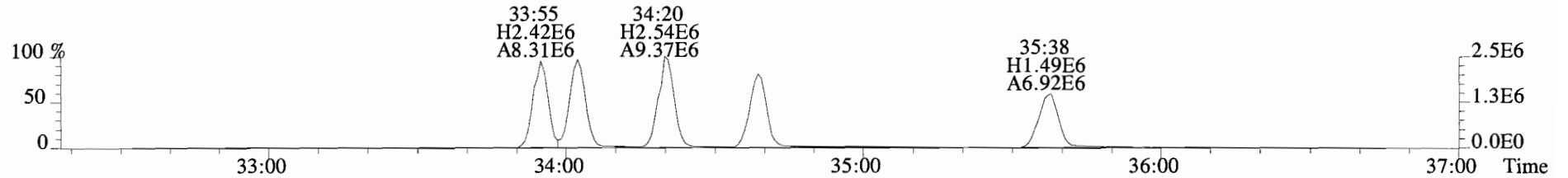
File:140912D1 #1-385 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



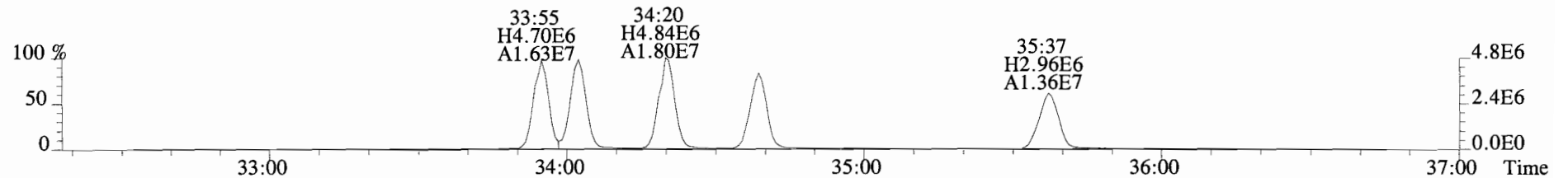
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



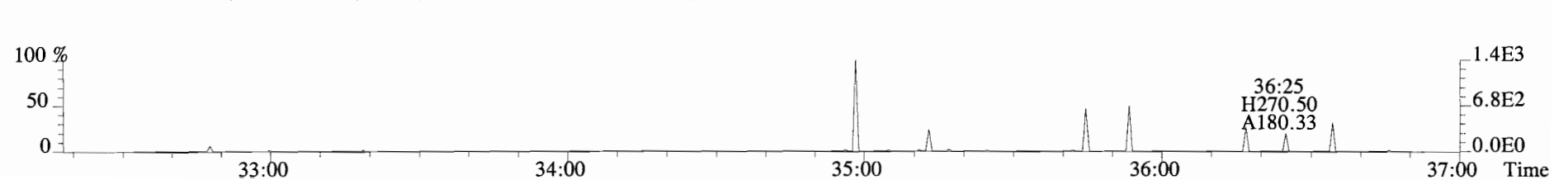
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

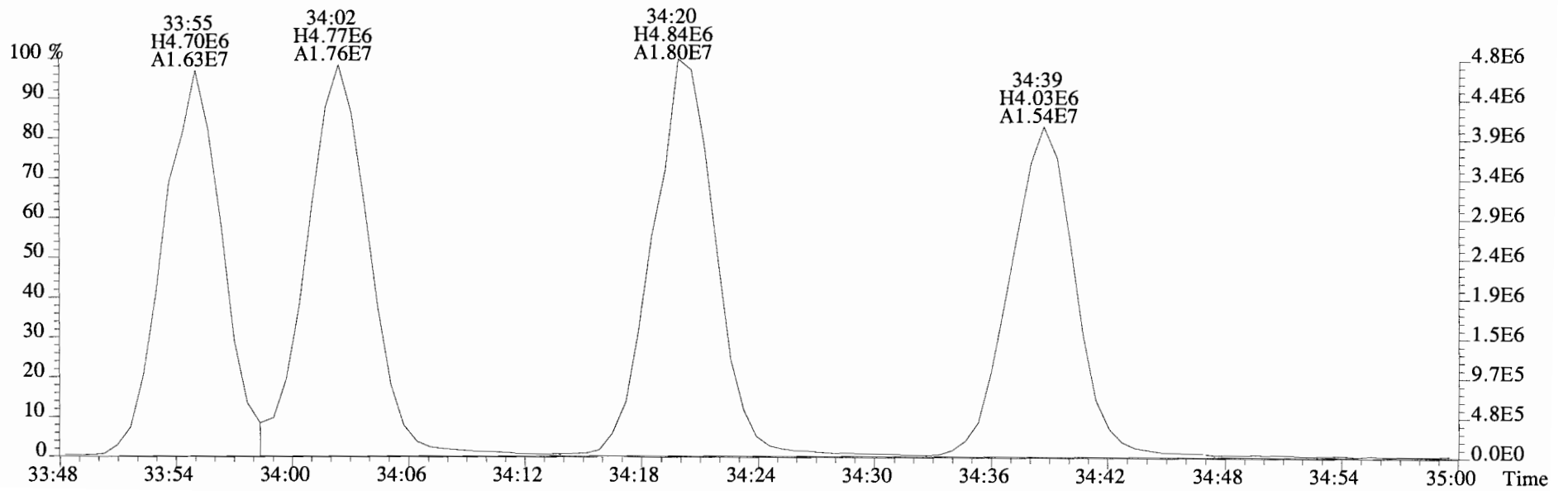
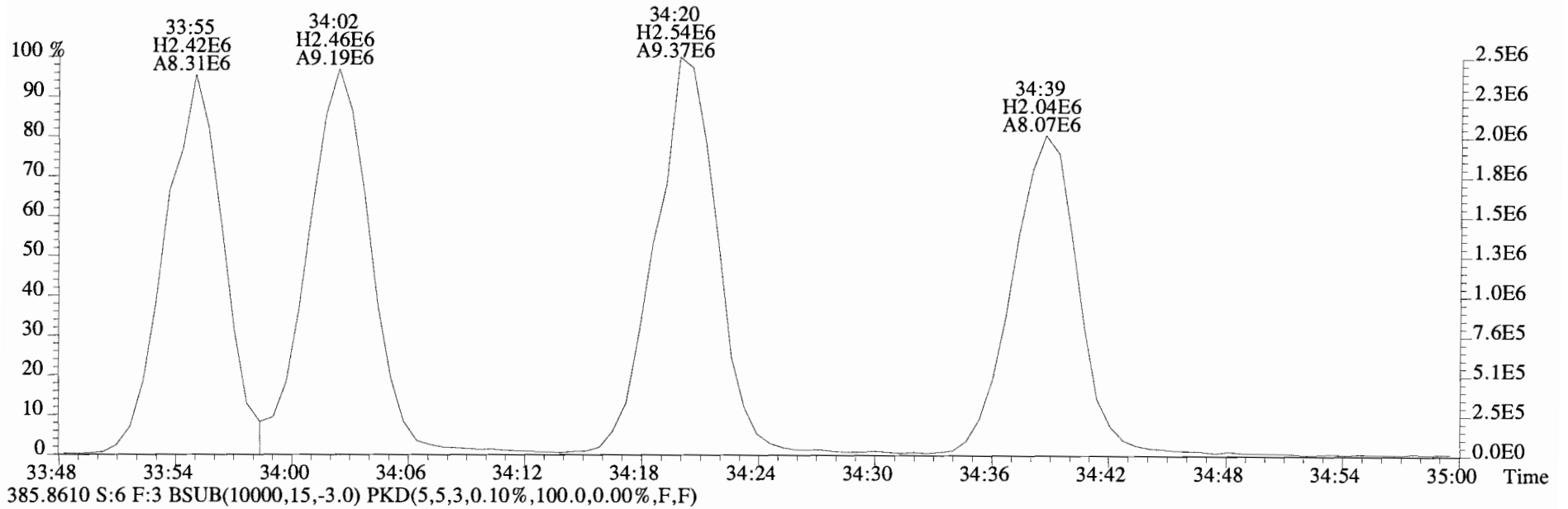


445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

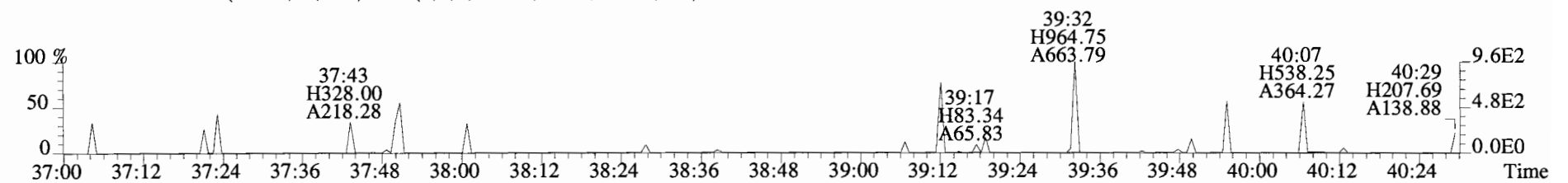
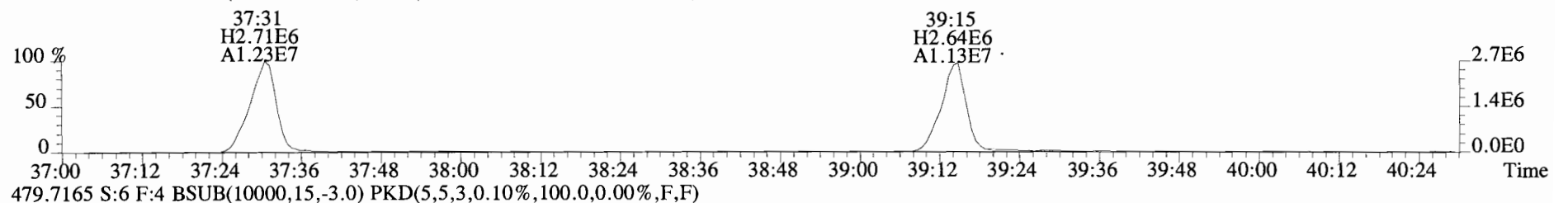
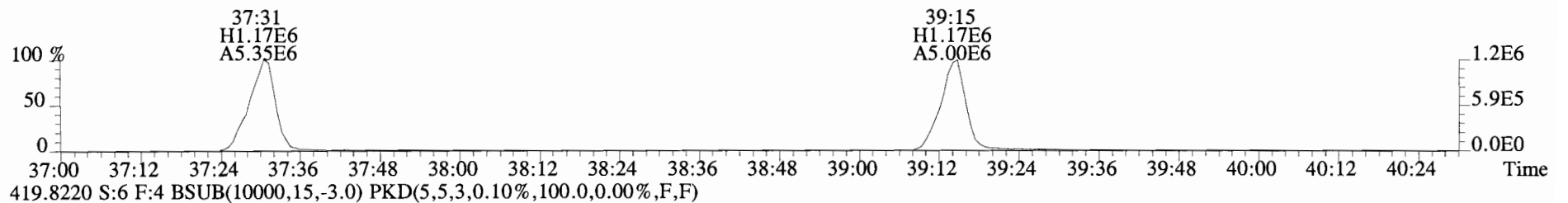
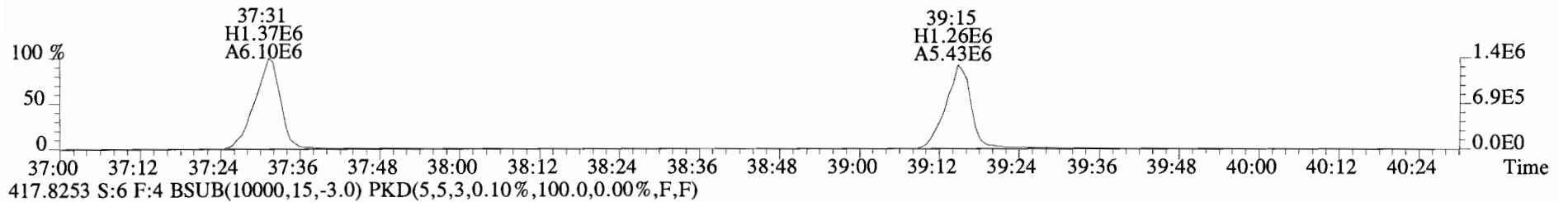
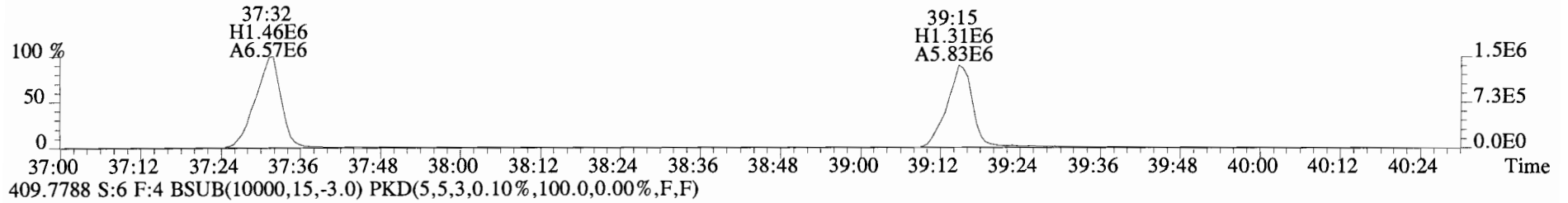




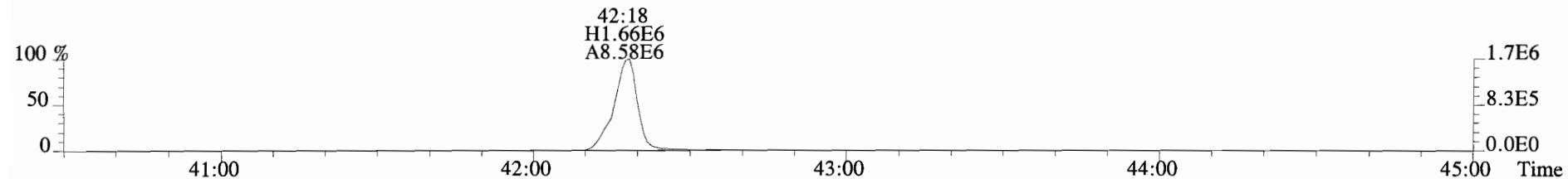
File:140912D1 #1-385 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



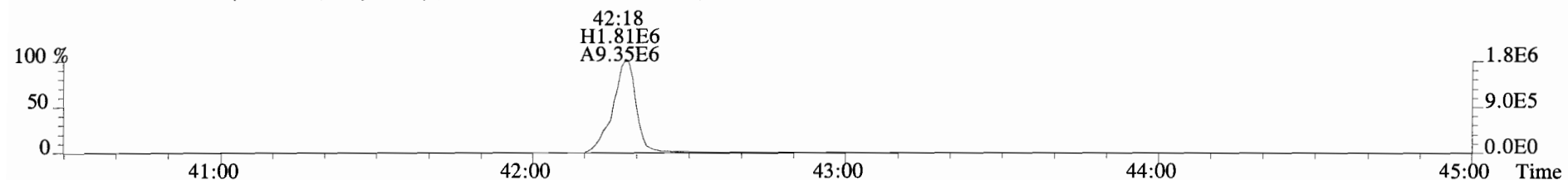
File:140912D1 #1-325 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



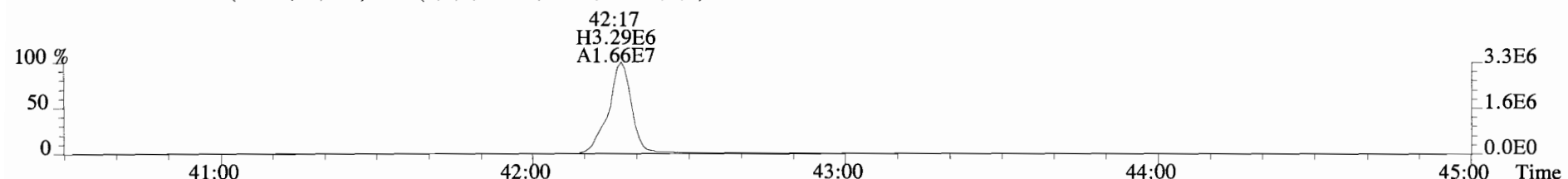
File:140912D1 #1-389 Acq:12-SEP-2014 15:06:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0031-BS1 OPR 5 Exp:OCDD\_DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



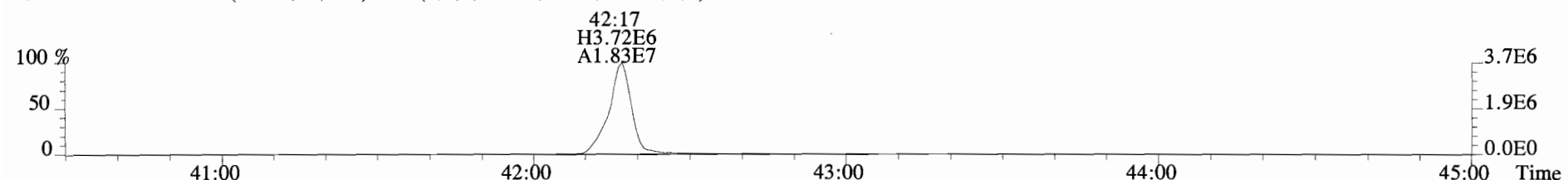
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



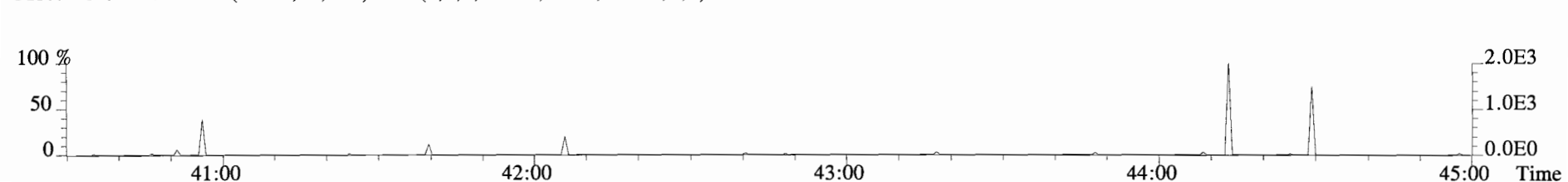
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.52e+04	0.58 n	1.03	27:05	1.001	0.69260		*	2.5	*	Total Tetra-Dioxins	14.6	17.9	*	*	
1,2,3,7,8-PeCDD	1.46e+05	0.63 y	0.84	31:38	1.000	3.3565		*	2.5	*	Total Penta-Dioxins	35.7	35.7	*	*	
1,2,3,4,7,8-HxCDD	2.44e+05	1.29 y	1.05	35:05	1.000	5.4516		*	2.5	*	Total Hexa-Dioxins	136	136	*	*	
1,2,3,6,7,8-HxCDD	7.89e+05	1.31 y	1.04	35:12	1.000	16.275		*	2.5	*	Total Hepta-Dioxins	708	708	*	*	
1,2,3,7,8,9-HxCDD	5.90e+05	1.13 y	0.90	35:31	1.000	11.405		*	2.5	*	Total Tetra-Furans	76.1	76.1	*	*	
1,2,3,4,6,7,8-HpCDD	1.59e+07	1.03 y	1.01	39:10	1.000	364.33		*	2.5	*	Total Penta-Furans	87.126	87.465	*	*	
OCDD	1.30e+08	0.89 y	1.04	42:53	1.000	3131.9		*	2.5	*	Total Hexa-Furans	108	108	*	*	
											Total Hepta-Furans	171	171	*	*	
2,3,7,8-TCDF	2.39e+05	0.69 y	0.91	26:18	1.000	4.0933	(3.42)	*	2.5	*						
1,2,3,7,8-PeCDF	1.96e+05	1.55 y	0.97	30:26	1.000	2.7867		*	2.5	*						
2,3,4,7,8-PeCDF	3.02e+05	1.62 y	0.94	31:20	1.000	4.4894		*	2.5	*						
1,2,3,4,7,8-HxCDF	4.62e+05	1.32 y	1.32	34:09	1.000	6.4459		*	2.5	*						
1,2,3,6,7,8-HxCDF	4.39e+05	1.34 y	1.18	34:17	1.001	5.5257		*	2.5	*						
2,3,4,6,7,8-HxCDF	5.17e+05	1.30 y	1.23	34:54	1.000	7.0808		*	2.5	*						
1,2,3,7,8,9-HxCDF	7.58e+04	1.06 y	1.13	35:55	1.001	1.2633		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	5.52e+06	1.08 y	1.57	37:53	1.000	77.126		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	3.81e+05	1.18 y	1.50	39:44	1.000	6.0581		*	2.5	*						
OCDF	7.04e+06	0.92 y	1.05	43:06	1.000	144.44		*	2.5	*						

IS	13C-2,3,7,8-TCDD	1.97e+07	0.80 y	1.06	27:04	1.021	337.40	Rec	Qual
IS	13C-1,2,3,7,8-PeCDD	2.07e+07	0.63 y	1.08	31:37	1.192	348.11	84.4	
IS	13C-1,2,3,4,7,8-HxCDD	1.71e+07	1.35 y	0.74	35:05	1.015	345.22	87.1	
IS	13C-1,2,3,6,7,8-HxCDD	1.87e+07	1.27 y	0.75	35:12	1.018	373.93	86.4	
IS	13C-1,2,3,7,8,9-HxCDD	2.31e+07	1.27 y	0.89	35:30	1.027	389.62	93.6	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.73e+07	1.06 y	0.70	39:09	1.133	369.51	97.5	
IS	13C-OCDD	3.18e+07	0.91 y	0.59	42:52	1.240	810.60	92.5	
IS	13C-2,3,7,8-TCDF	2.56e+07	0.76 y	0.97	26:18	0.991	313.83	101	
IS	13C-1,2,3,7,8-PeCDF	2.90e+07	1.58 y	0.99	30:25	1.147	346.75	78.5	
IS	13C-2,3,4,7,8-PeCDF	2.86e+07	1.58 y	1.01	31:20	1.181	336.61	86.8	
IS	13C-1,2,3,4,7,8-HxCDF	2.17e+07	0.52 y	0.94	34:08	0.988	346.59	84.2	
IS	13C-1,2,3,6,7,8-HxCDF	2.70e+07	0.53 y	1.23	34:16	0.991	330.72	86.7	
IS	13C-2,3,4,6,7,8-HxCDF	2.37e+07	0.52 y	1.03	34:54	1.009	344.92	82.8	
IS	13C-1,2,3,7,8,9-HxCDF	2.12e+07	0.50 y	0.89	35:53	1.038	360.11	86.3	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.82e+07	0.44 y	0.71	37:52	1.095	386.86	90.1	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.67e+07	0.44 y	0.64	39:44	1.149	391.56	96.8	
IS	13C-OCDF	3.69e+07	0.90 y	0.76	43:05	1.246	731.96	98.0	

C/Up	37Cl-2,3,7,8-TCDD	7.87e+06		1.04	27:06	1.022	137.47	86.0	
RS/RT	13C-1,2,3,4-TCDD	2.19e+07	0.80 y	1.00	26:31	*	399.61		
RS	13C-1,2,3,4-TCDF	3.38e+07	0.77 y	1.00	25:06	*	399.61		
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.66e+07	0.52 y	1.00	34:34	*	399.61		

Integrations Reviewed  
 by Analyst: (m) by Analyst: [Signature]  
 Date: 9/17/14 Date: 9/17/14

Totals class: TCDD EMPC

Entry #: 19

Run: 12 File: 140916D2 S: 8 I: 1 F: 1  
 Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 17.907 Unnamed Concentration: 17.214

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
23:44	1.212e+05	1.529e+05	0.79	y	2.741e+05	5.3911
24:06	6.504e+04	9.177e+04	0.71	y	1.568e+05	3.0845
24:29	1.762e+04	2.093e+04	0.84	y	3.855e+04	0.75823
25:14	9.285e+03	8.570e+03	1.08	n	1.517e+04	0.29836
25:27	3.584e+04	4.822e+04	0.74	y	8.406e+04	1.6534
25:37	3.450e+04	4.176e+04	0.83	y	7.626e+04	1.4999
25:47	1.686e+04	1.786e+04	0.94	n	3.161e+04	0.62178
26:11	1.606e+04	1.964e+04	0.82	y	3.570e+04	0.70228
26:30	1.827e+04	2.130e+04	0.86	y	3.956e+04	0.77815
26:37	6.552e+03	5.252e+03	1.25	n	9.296e+03	0.18284
26:50	2.878e+04	2.925e+04	0.98	n	5.178e+04	1.0184
26:58	6.365e+03	1.042e+04	0.61	n	1.463e+04	0.28778
27:05	1.532e+04	2.642e+04	0.58	n	3.521e+04	0.69260
27:23	1.633e+04	2.018e+04	0.81	y	3.651e+04	0.71817
27:56	6.132e+03	6.304e+03	0.97	n	1.116e+04	0.21946

2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 12 File: 140916D2 S: 8 I: 1 F: 2  
 Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 35.700

Unnamed Concentration: 32.344

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:33	1.723e+05	2.900e+05	0.59	y	4.623e+05	10.612
30:01	3.197e+04	4.882e+04	0.65	y	8.079e+04	1.8546
30:27	7.986e+04	1.228e+05	0.65	y	2.026e+05	4.6511
30:37	5.705e+04	8.478e+04	0.67	y	1.418e+05	3.2560
30:43	5.592e+04	9.771e+04	0.57	y	1.536e+05	3.5269
30:55	6.761e+04	1.059e+05	0.64	y	1.735e+05	3.9831
31:14	3.063e+04	4.938e+04	0.62	y	8.000e+04	1.8366
31:38	5.675e+04	8.947e+04	0.63	y	1.462e+05	3.3565
31:43	1.787e+04	2.955e+04	0.60	y	4.742e+04	1.0886
32:00	2.346e+04	4.339e+04	0.54	y	6.685e+04	1.5346

1,2,3,7,8-PeCDD

Totals class: HxCDD EMPC

Entry #: 23

Run: 12 File: 140916D2 S: 8 I: 1 F: 3

Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 135.86

Unnamed Concentration: 102.732

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
33:29	8.823e+05	7.190e+05	1.23	y	1.601e+06	33.026
34:05	2.997e+05	2.371e+05	1.26	y	5.368e+05	11.071
34:21	1.377e+06	1.107e+06	1.24	y	2.484e+06	51.240
34:29	8.595e+04	6.588e+04	1.30	y	1.518e+05	3.1314
35:05	1.378e+05	1.064e+05	1.29	y	2.442e+05	5.4516 1,2,3,4,7,8-HxCDD
35:12	4.479e+05	3.408e+05	1.31	y	7.887e+05	16.275 1,2,3,6,7,8-HxCDD
35:25	1.208e+05	8.591e+04	1.41	y	2.067e+05	4.2630
35:31	3.127e+05	2.777e+05	1.13	y	5.905e+05	11.405 1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 12 File: 140916D2 S: 8 I: 1 F: 4

Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 707.73

Unnamed Concentration: 343.390

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
38:16	7.653e+06	7.338e+06	1.04 y	1.499e+07	343.39	
39:10	8.085e+06	7.821e+06	1.03 y	1.591e+07	364.33	1,2,3,4,6,7,8-HpCDD



Totals class: TCDF EMPC

Entry #: 27

Run: 12 File: 140916D2 S: 8 I: 1 F: 1  
 Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 76.134

Unnamed Concentration: 72.041

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
21:37	2.857e+04	3.260e+04	0.88	y	6.117e+04	1.0457
22:12	5.915e+04	7.773e+04	0.76	y	1.369e+05	2.3401
22:49	1.767e+05	2.311e+05	0.76	y	4.078e+05	6.9718
23:19	2.093e+05	2.716e+05	0.77	y	4.809e+05	8.2215
23:42	1.442e+05	1.783e+05	0.81	y	3.225e+05	5.5128
24:07	9.949e+04	1.263e+05	0.79	y	2.257e+05	3.8591
24:15	6.163e+04	8.997e+04	0.69	y	1.516e+05	2.5916
24:24	6.501e+04	9.069e+04	0.72	y	1.557e+05	2.6616
24:45	3.250e+04	4.364e+04	0.74	y	7.614e+04	1.3016
24:52	9.405e+04	1.160e+05	0.81	y	2.100e+05	3.5900
25:00	1.449e+05	1.691e+05	0.86	y	3.140e+05	5.3683
25:07	1.590e+05	2.177e+05	0.73	y	3.767e+05	6.4401
25:32	1.083e+05	1.408e+05	0.77	y	2.492e+05	4.2598
25:47	5.292e+04	7.573e+04	0.70	y	1.286e+05	2.1993
25:57	7.442e+04	9.340e+04	0.80	y	1.678e+05	2.8688
26:07	5.248e+04	7.521e+04	0.70	y	1.277e+05	2.1828
26:13	4.488e+04	6.029e+04	0.74	y	1.052e+05	1.7979
26:18	9.746e+04	1.420e+05	0.69	y	2.394e+05	4.0933
26:39	1.964e+05	2.420e+05	0.81	y	4.385e+05	7.4955
26:52	7.231e+03	1.058e+04	0.68	y	1.781e+04	0.30454
27:07	8.333e+03	9.442e+03	0.88	y	1.777e+04	0.30385
28:06	1.791e+04	2.445e+04	0.73	y	4.237e+04	0.72429

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 12 File: 140916D2 S: 8 I: 1 F: 1  
Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 28.234 Unnamed Concentration: 28.234

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:05	1.162e+06	7.830e+05	1.48 y	1.945e+06	28.234

Totals class: PeCDF EMPC

Entry #: 31

Run: 12 File: 140916D2 S: 8 I: 1 F: 2  
 Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 59.232

Unnamed Concentration: 51.956

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:23	2.859e+05	1.816e+05	1.57	y	4.676e+05	6.7888
29:32	8.702e+05	5.225e+05	1.67	y	1.393e+06	20.221
29:52	4.034e+04	2.589e+04	1.56	y	6.623e+04	0.96159
30:03	4.180e+05	2.703e+05	1.55	y	6.883e+05	9.9939
30:16	6.688e+04	3.840e+04	1.74	y	1.053e+05	1.5287
30:26	1.193e+05	7.709e+04	1.55	y	1.964e+05	2.7867
30:40	2.197e+05	1.293e+05	1.70	y	3.490e+05	5.0674
31:09	1.421e+04	1.216e+04	1.17	n	2.338e+04	0.33951
31:15	1.771e+05	1.114e+05	1.59	y	2.885e+05	4.1886
31:20	1.867e+05	1.154e+05	1.62	y	3.021e+05	4.4894
31:23	8.530e+04	5.220e+04	1.63	y	1.375e+05	1.9964
31:37	2.072e+04	1.245e+04	1.66	y	3.318e+04	0.48171
32:14	1.587e+04	1.083e+04	1.46	y	2.670e+04	0.38765

Totals class: HxCDF EMPC

Entry #: 33

Run: 12 File: 140916D2 S: 8 I: 1 F: 3  
 Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 107.78

Unnamed Concentration: 87.465

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
32:55	5.257e+05	4.136e+05	1.27	y	9.393e+05	13.226
33:05	1.820e+06	1.399e+06	1.30	y	3.219e+06	45.329
33:27	5.954e+04	4.274e+04	1.39	y	1.023e+05	1.4403
33:39	8.593e+05	6.566e+05	1.31	y	1.516e+06	21.346
34:02	1.471e+05	1.216e+05	1.21	y	2.687e+05	3.7839
34:09	2.622e+05	1.993e+05	1.32	y	4.615e+05	6.4459
34:17	2.512e+05	1.881e+05	1.34	y	4.393e+05	5.5257
34:26	1.972e+04	1.774e+04	1.11	y	3.746e+04	0.52748
34:35	2.520e+04	2.033e+04	1.24	y	4.553e+04	0.64116
34:42	2.184e+04	2.067e+04	1.06	y	4.252e+04	0.59871
34:54	2.917e+05	2.249e+05	1.30	y	5.165e+05	7.0808
35:55	3.893e+04	3.684e+04	1.06	y	7.577e+04	1.2633
35:59	2.244e+04	1.817e+04	1.24	y	4.061e+04	0.57181

Totals class: HpCDF EMPC

Entry #: 35

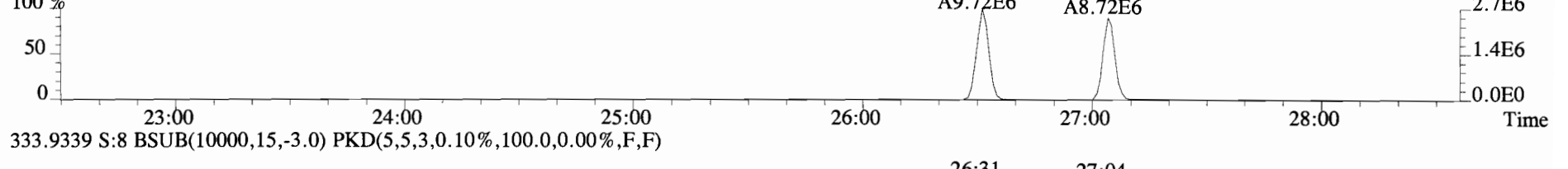
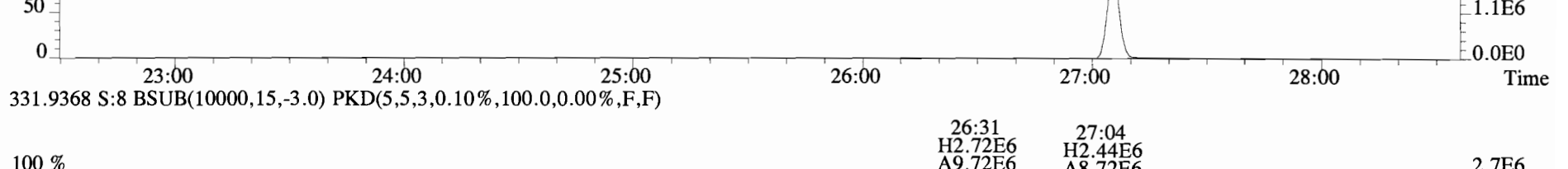
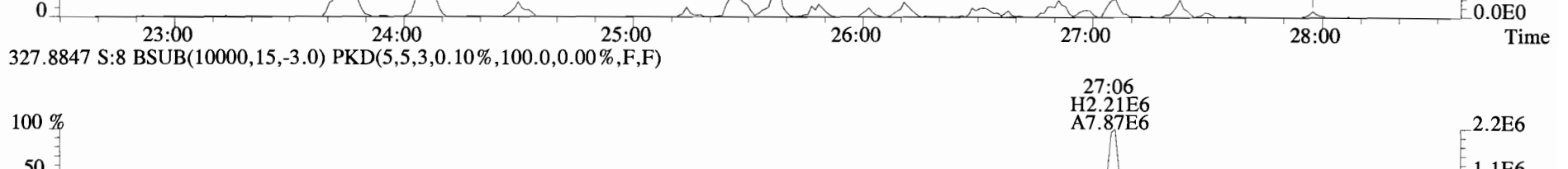
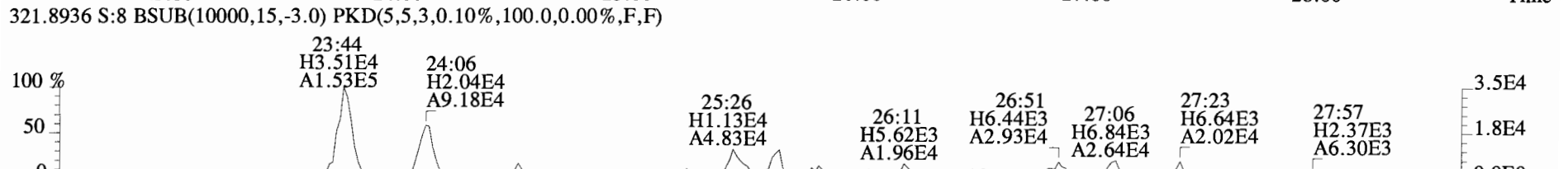
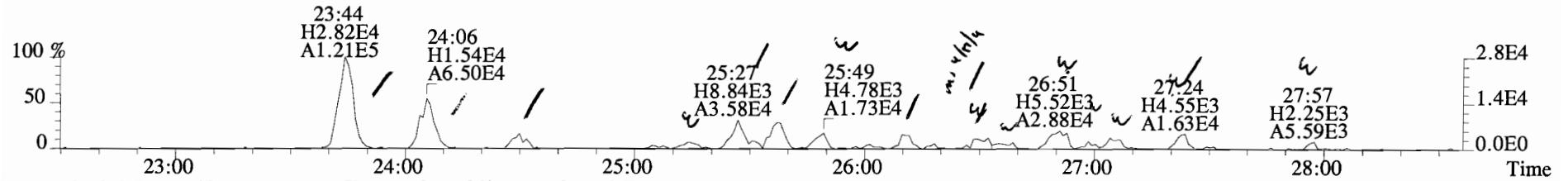
Run: 12 File: 140916D2 S: 8 I: 1 F: 4  
Acquired: 16-SEP-14 20:41:57 Processed: 17-SEP-14 09:09:51

Total Concentration: 170.83

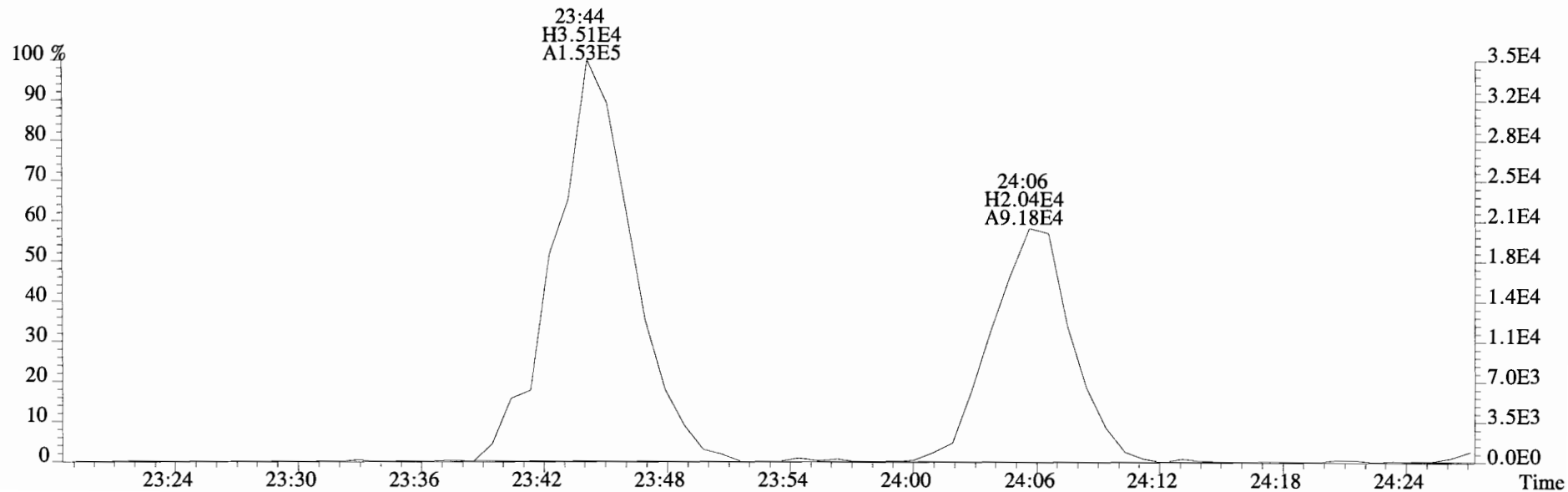
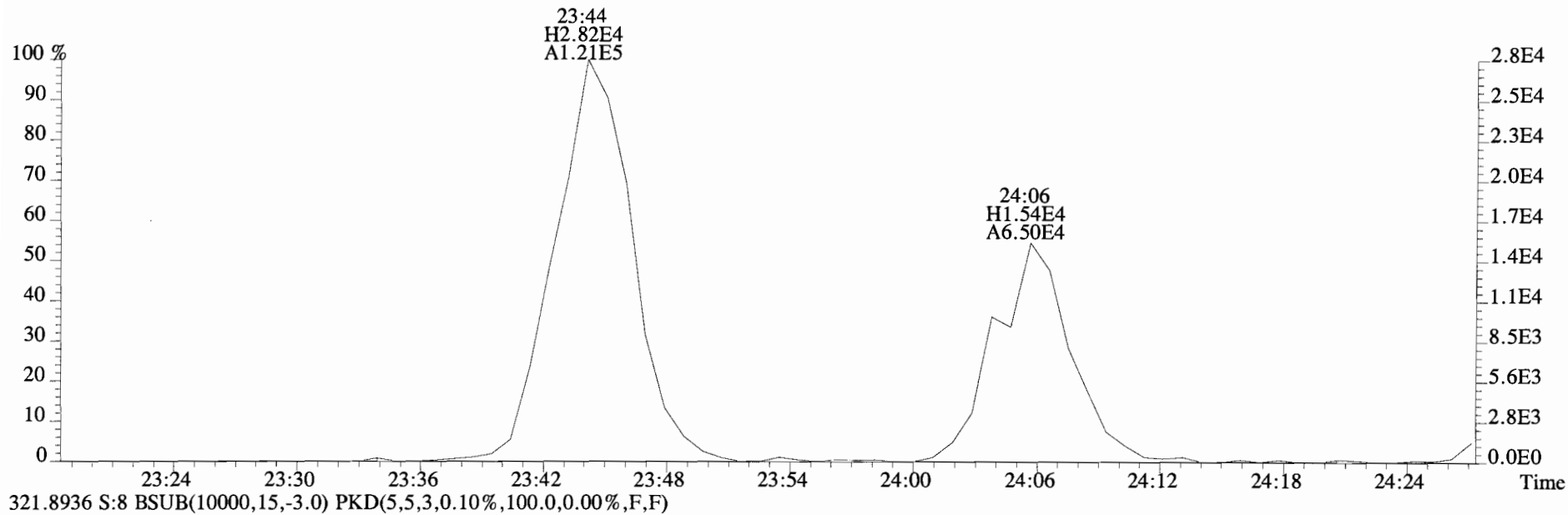
Unnamed Concentration: 87.649

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:53	2.871e+06	2.650e+06	1.08 y	5.521e+06	77.126	1,2,3,4,6,7,8-HpCDF
38:16	1.045e+05	8.850e+04	1.18 y	1.930e+05	2.8681	
38:28	2.999e+06	2.706e+06	1.11 y	5.704e+06	84.781	
39:44	2.068e+05	1.746e+05	1.18 y	3.814e+05	6.0581	1,2,3,4,7,8,9-HpCDF

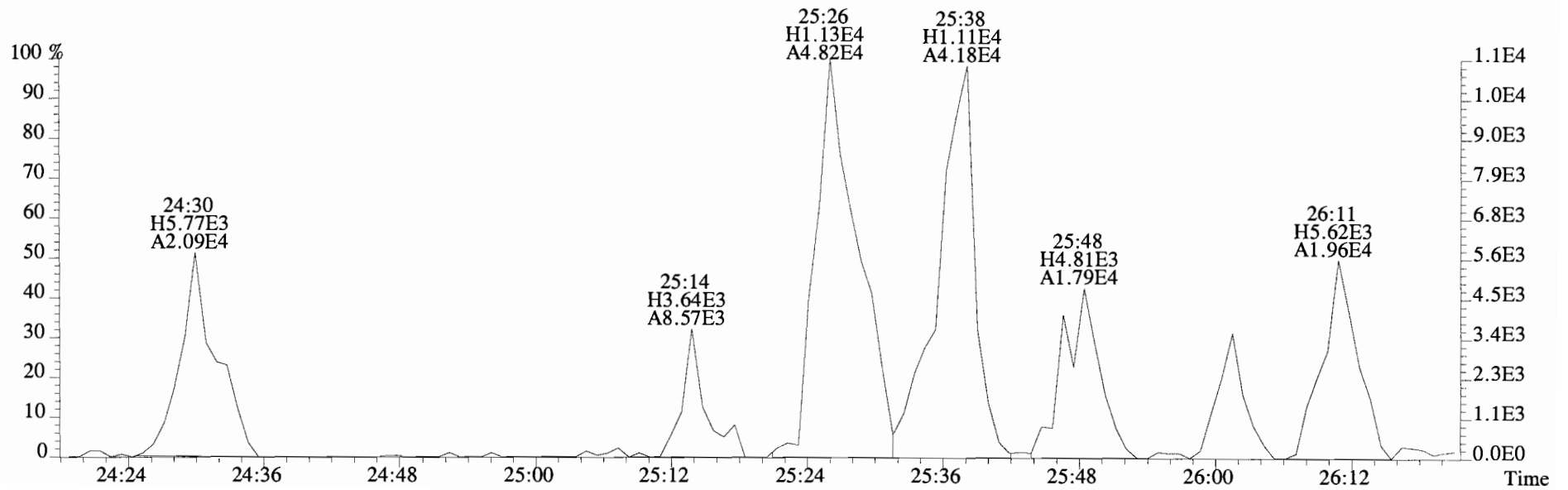
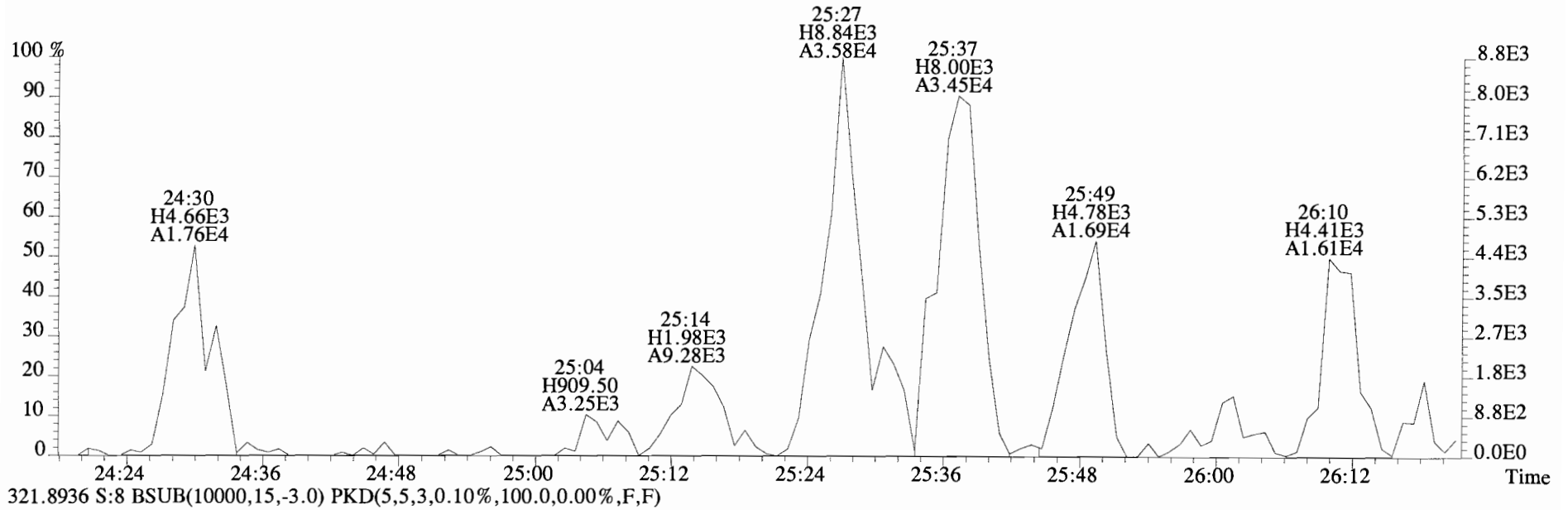
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
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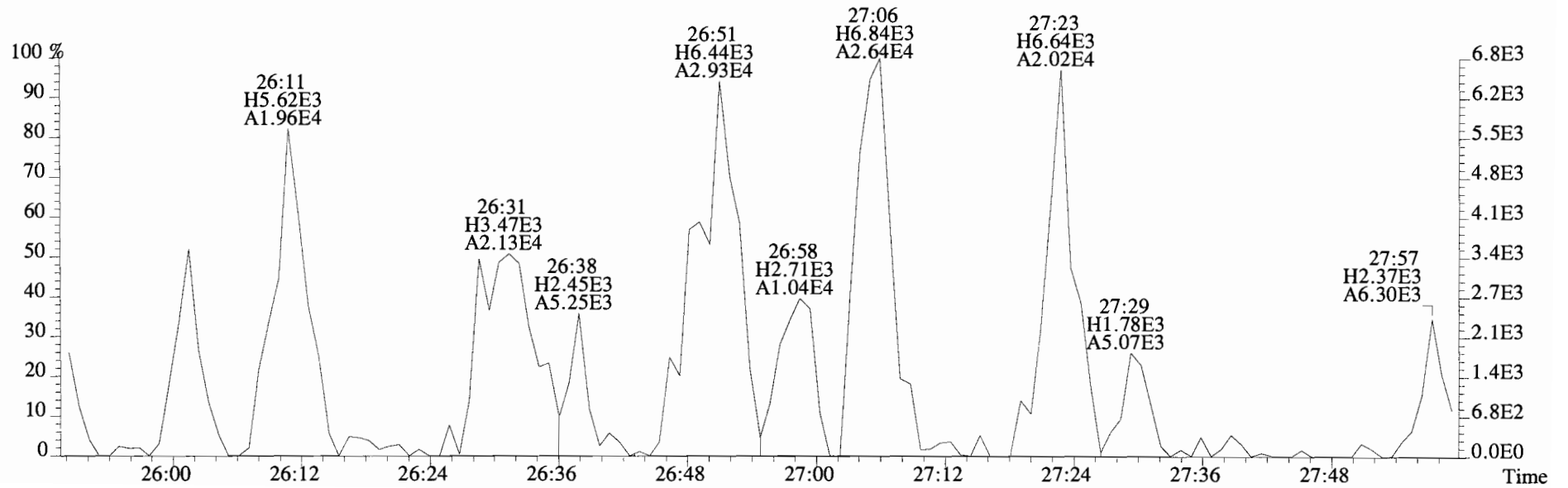
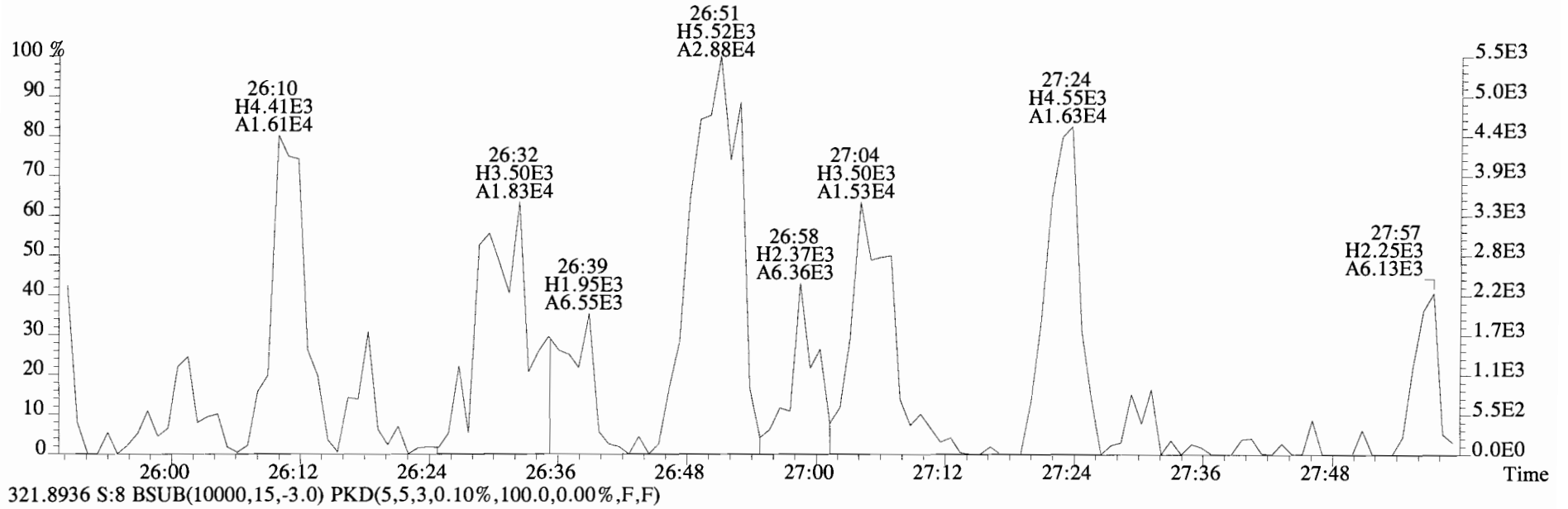


File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

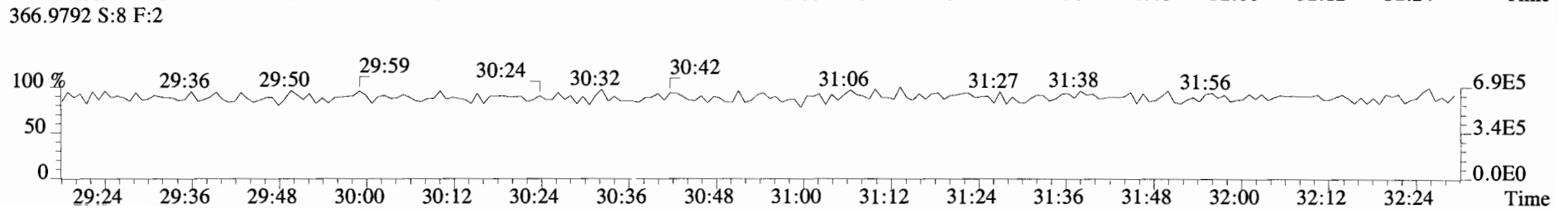
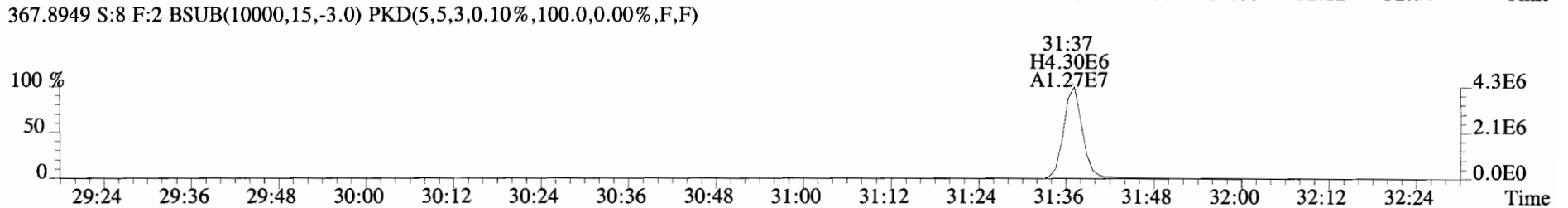
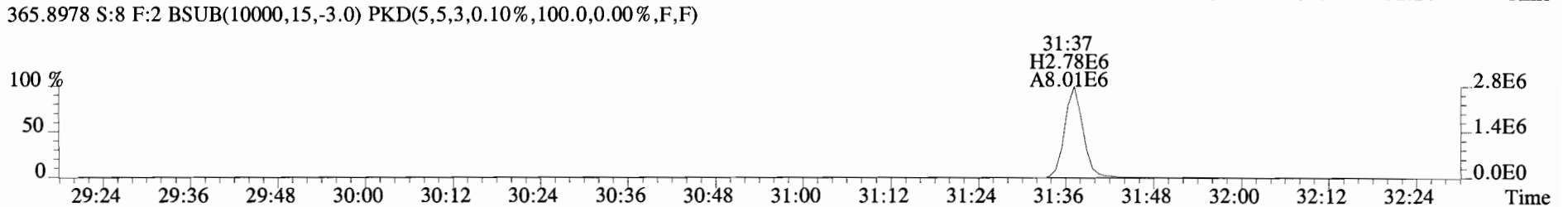
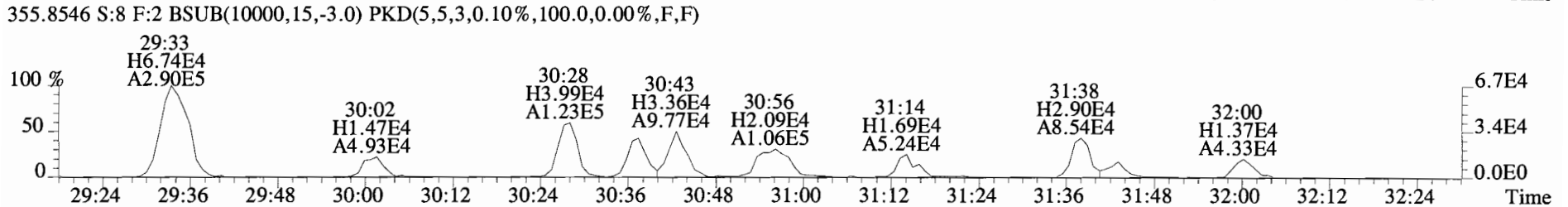
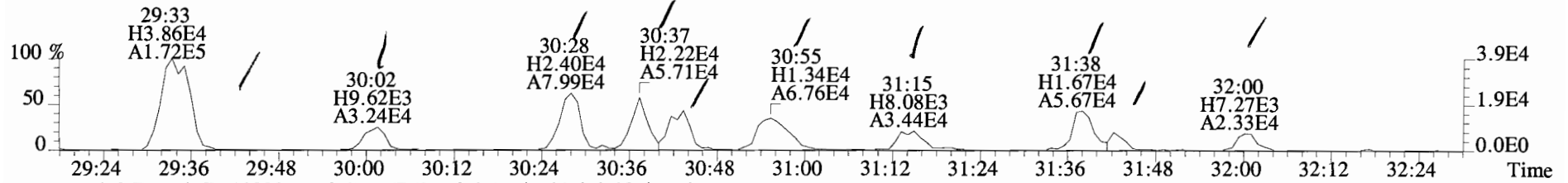




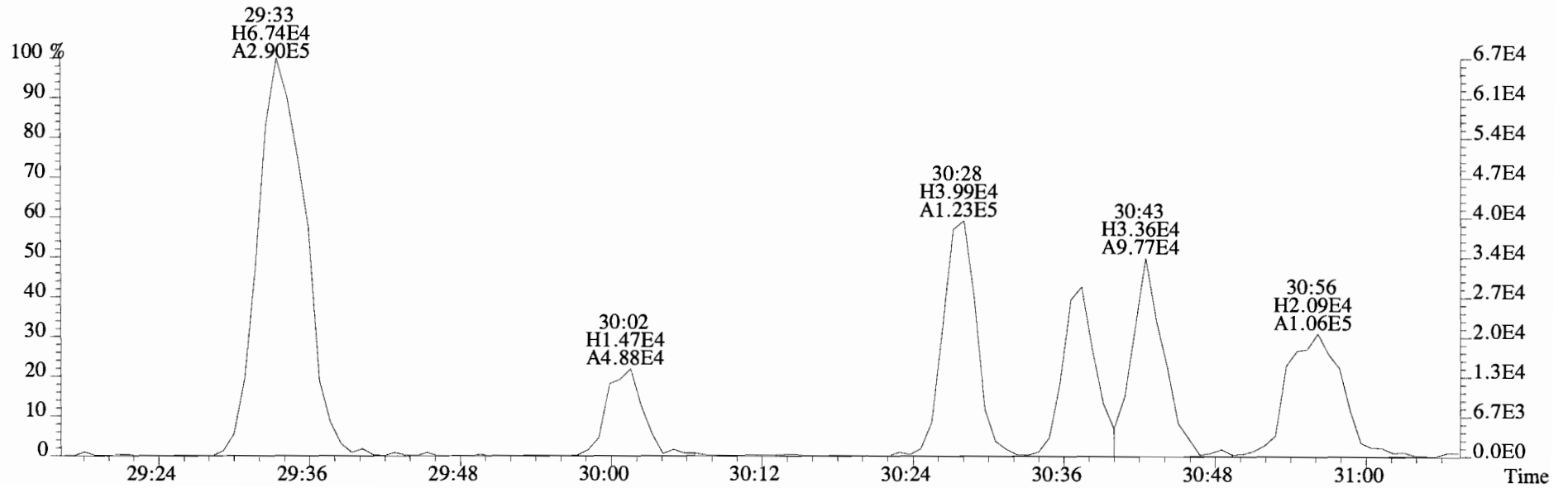
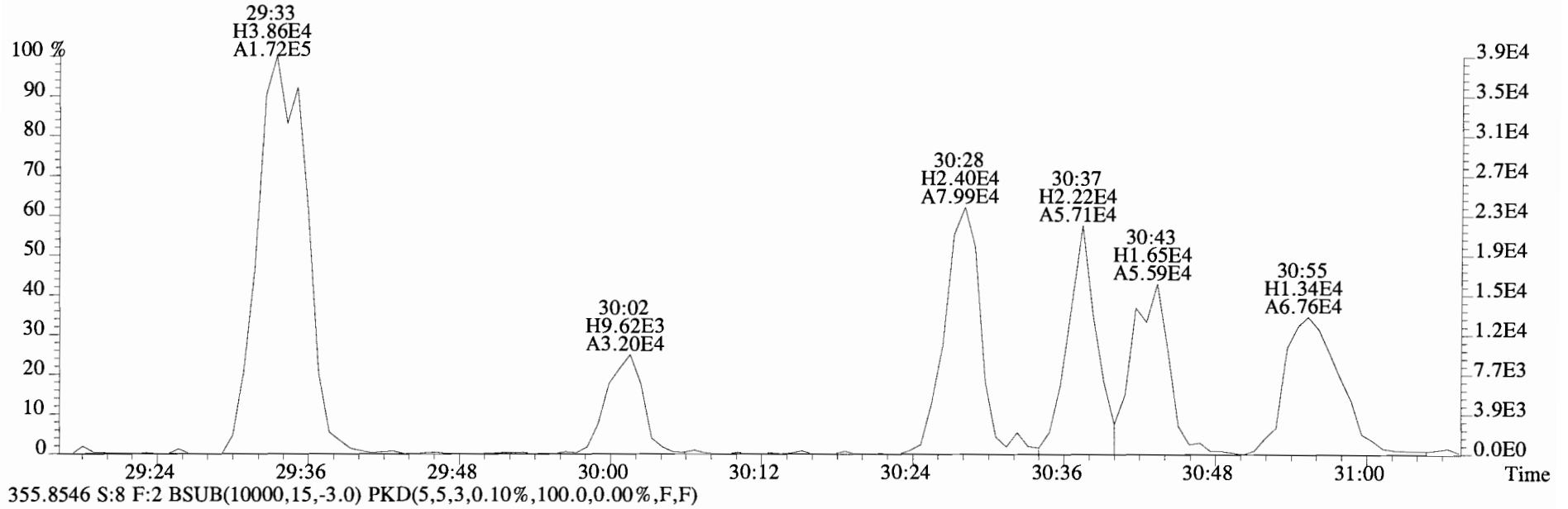
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
 319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



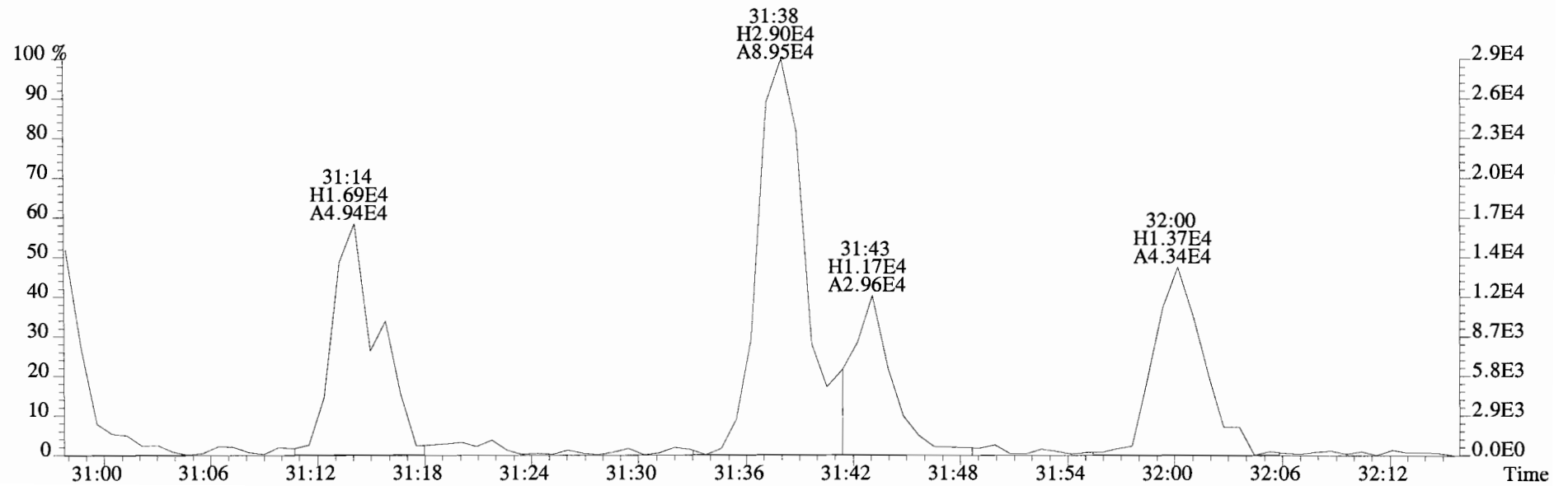
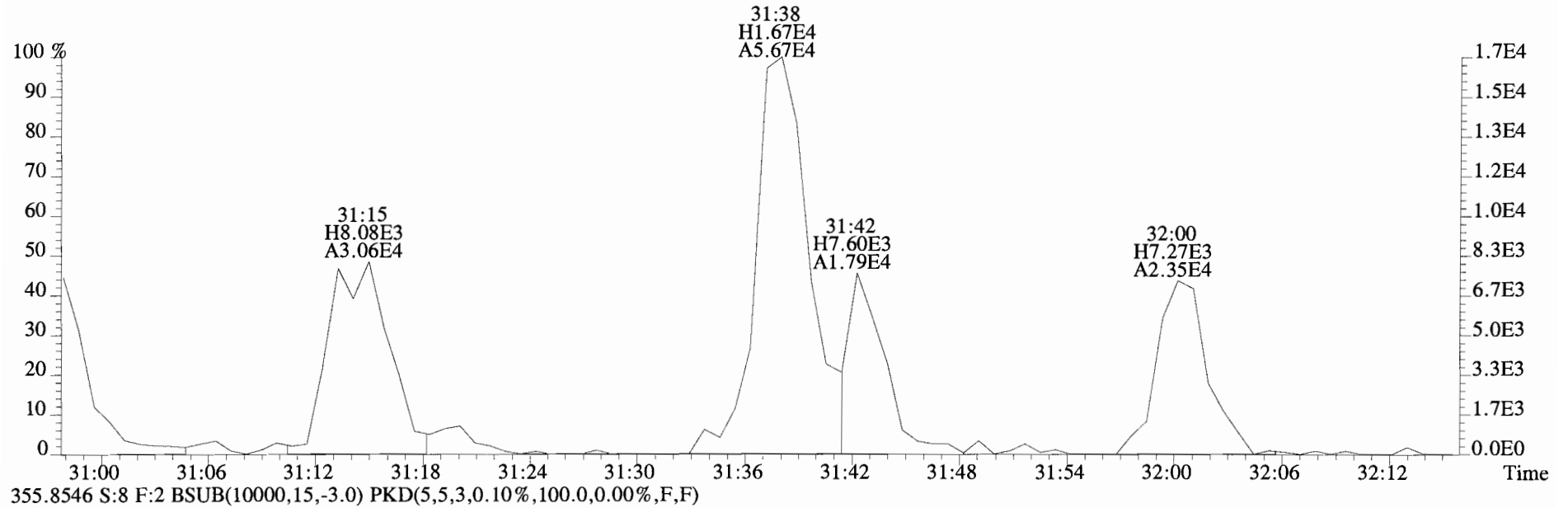
File:140916D2 #1-256 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



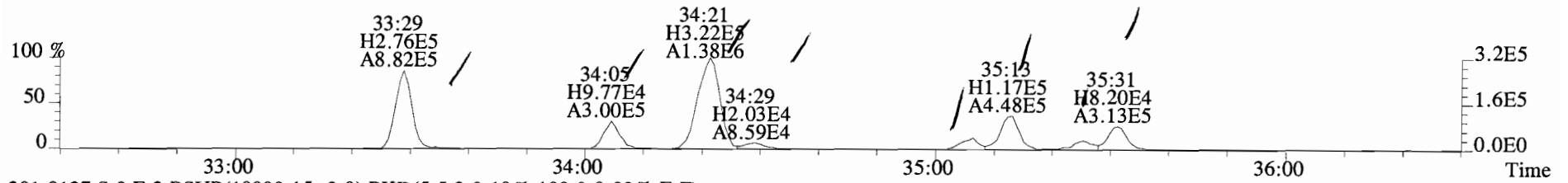
File:140916D2 #1-256 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
353.8576 S:8 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



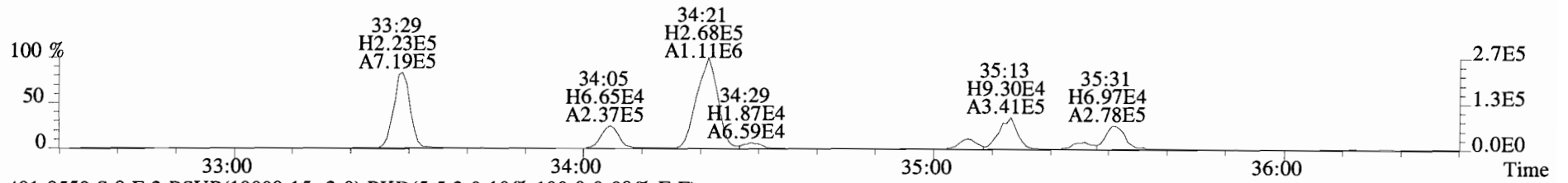
File:140916D2 #1-256 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



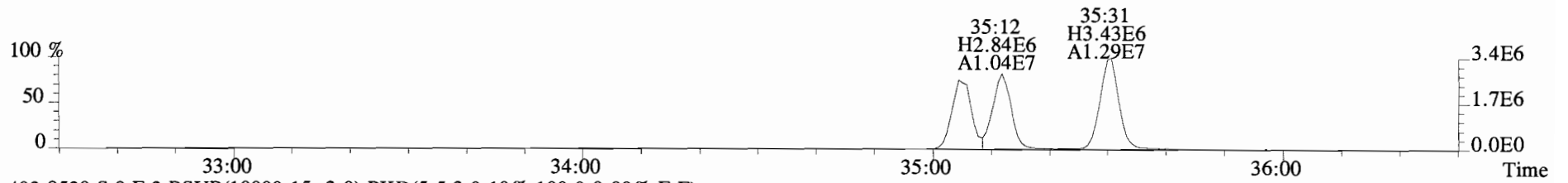
File:140916D2 #1-386 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



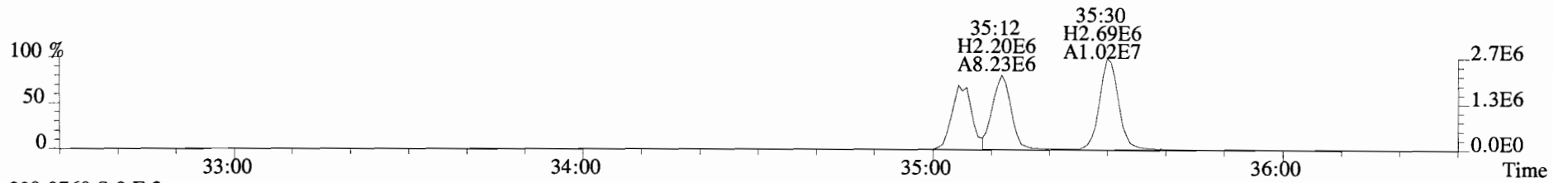
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



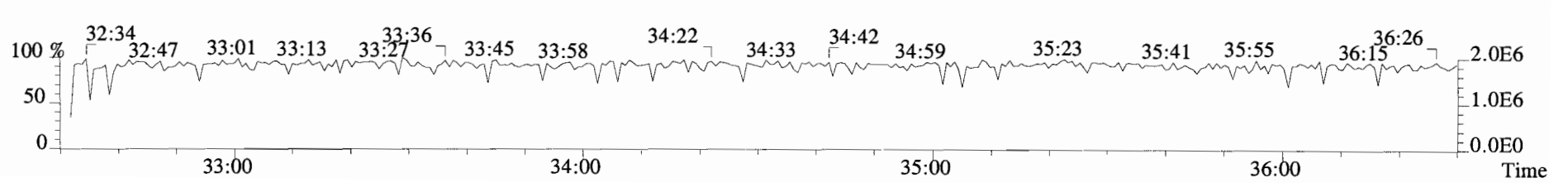
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



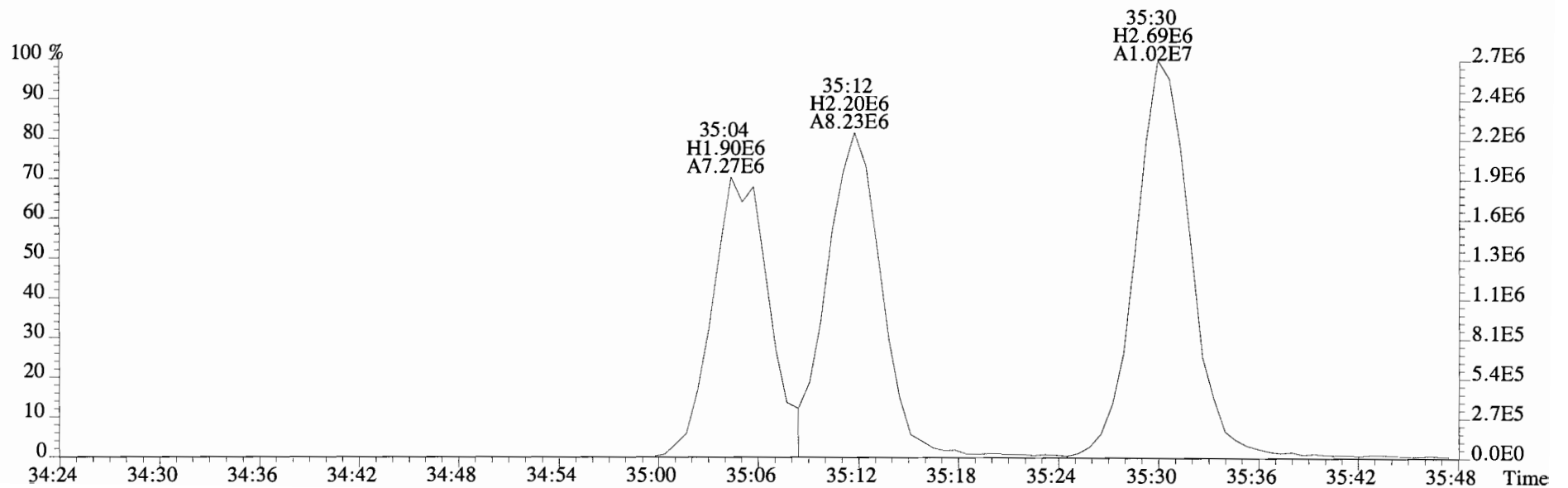
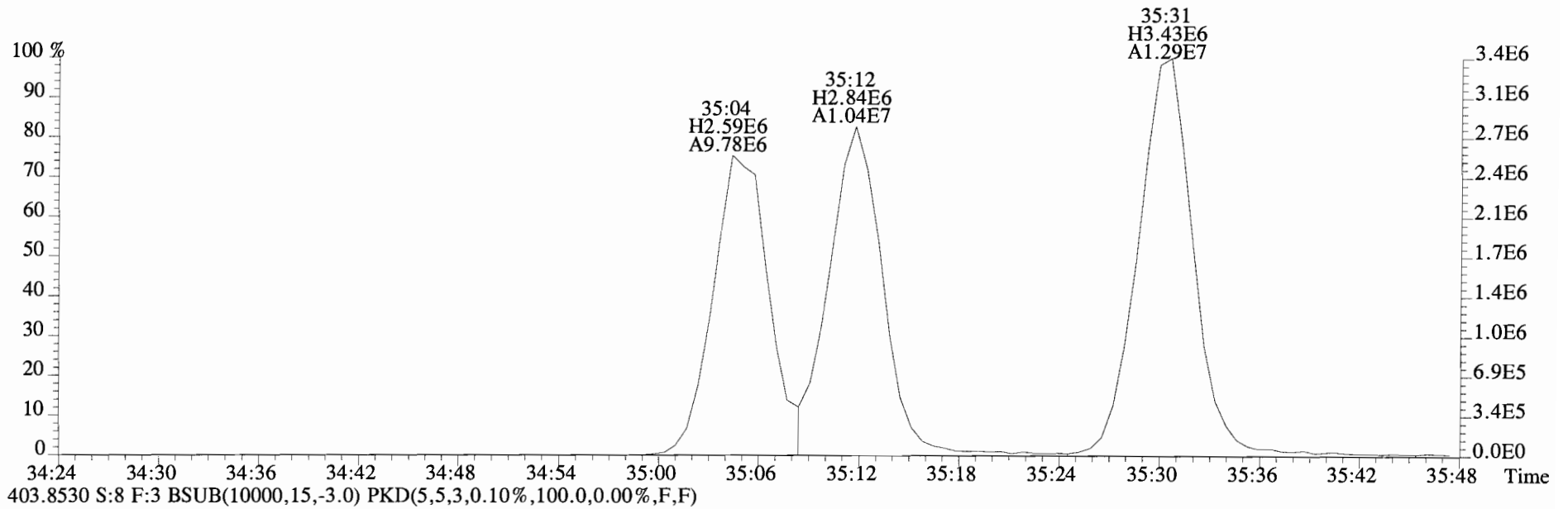
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



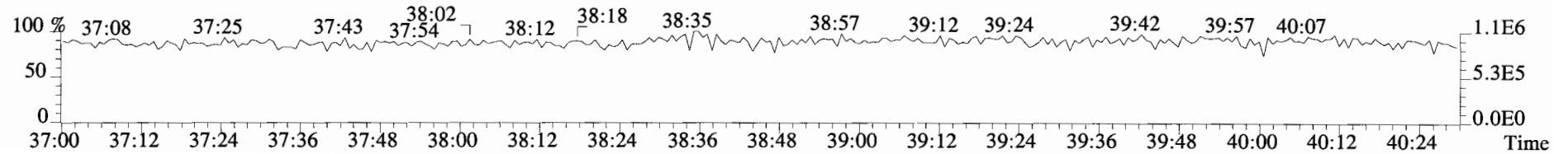
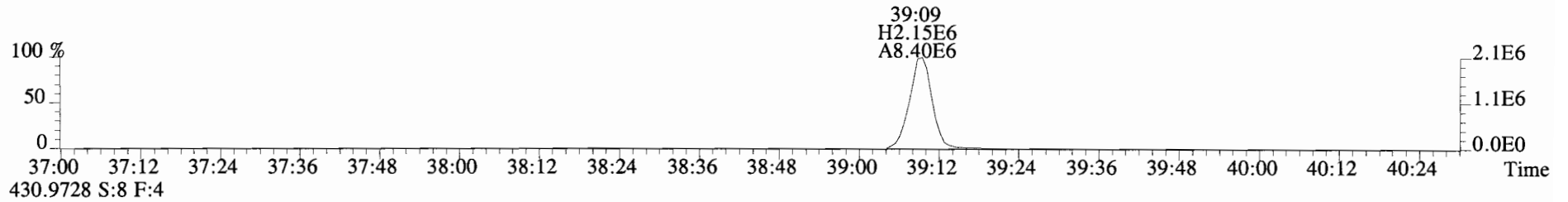
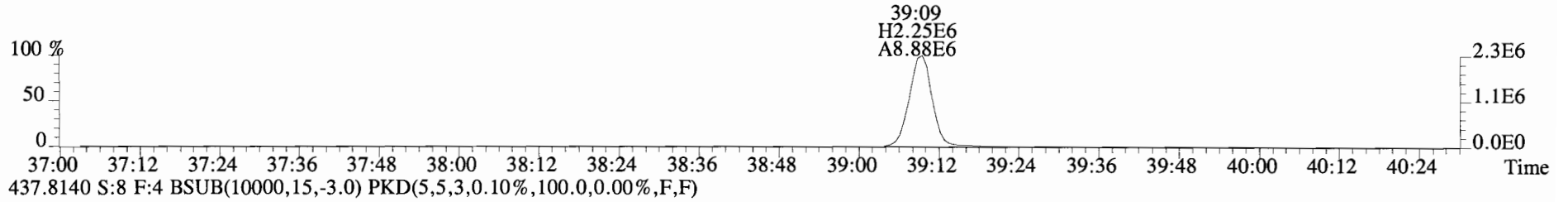
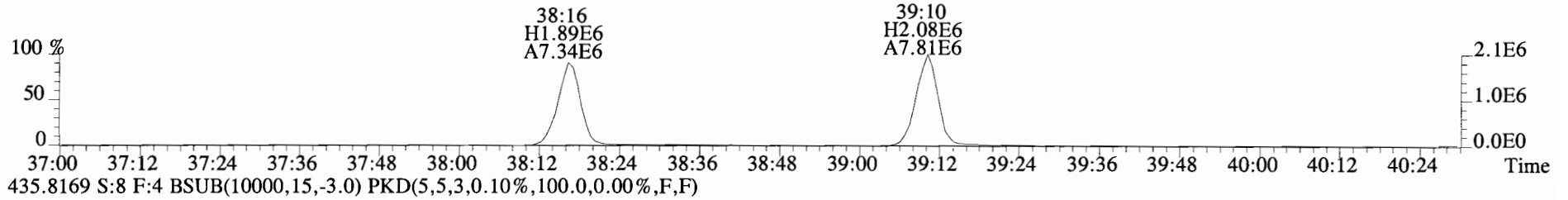
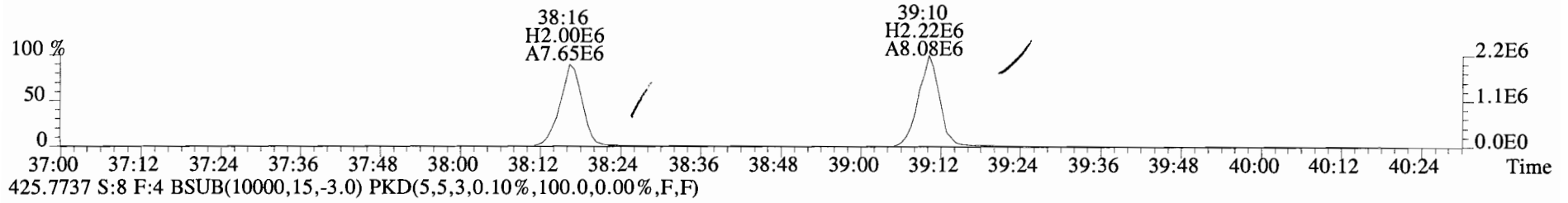
380.9760 S:8 F:3



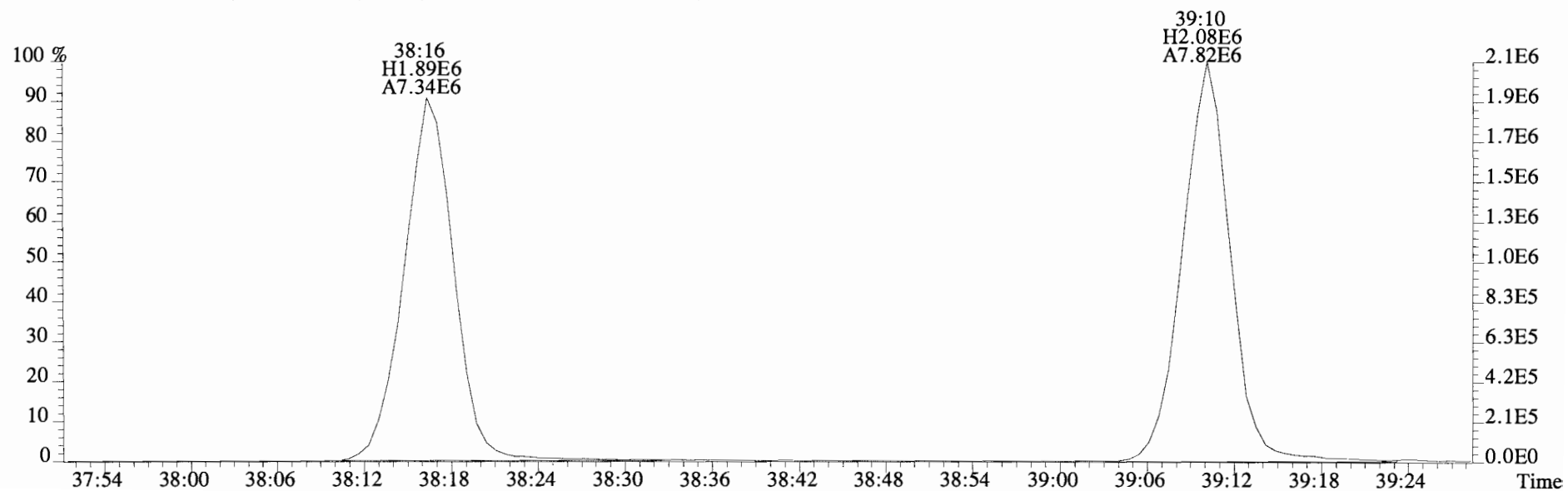
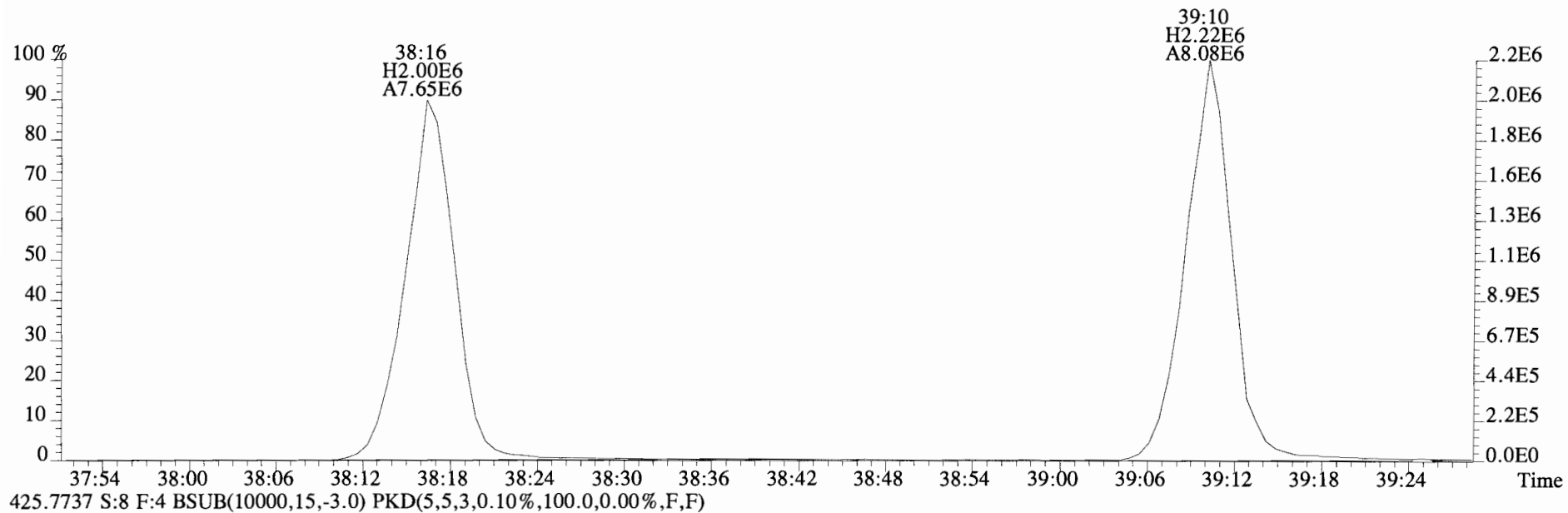
File:140916D2 #1-386 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140916D2 #1-325 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 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)

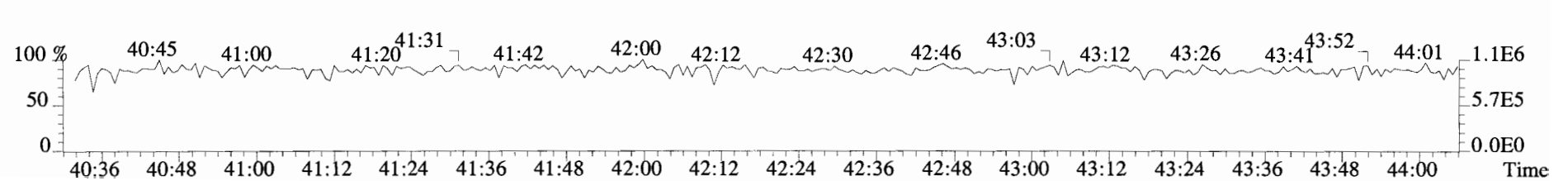
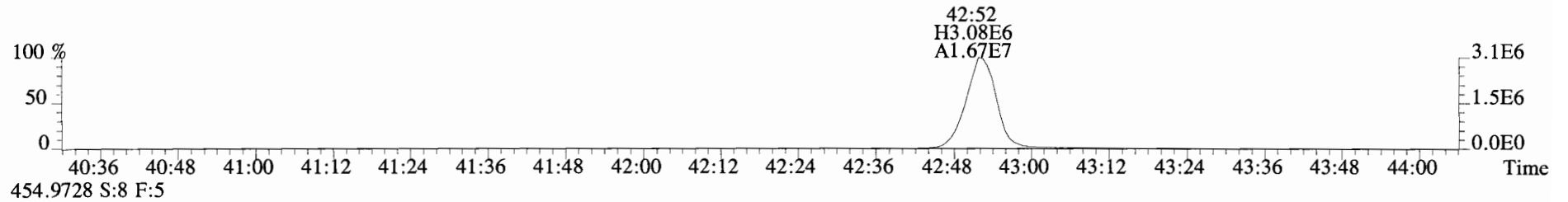
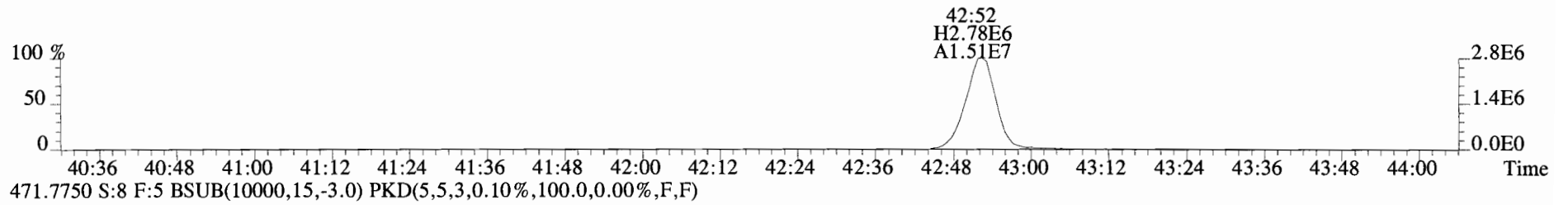
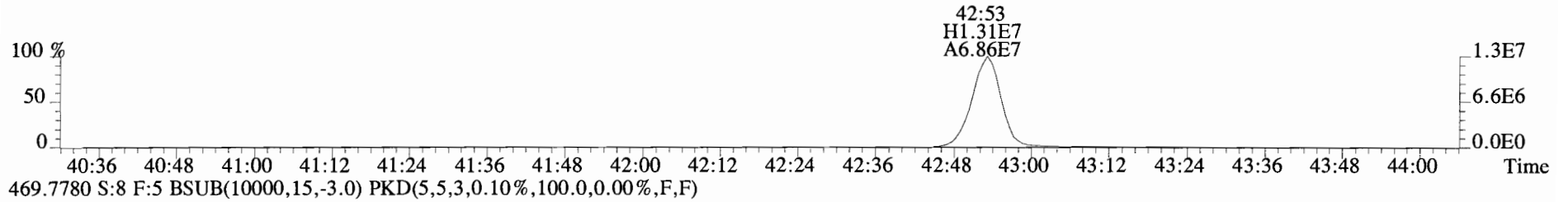
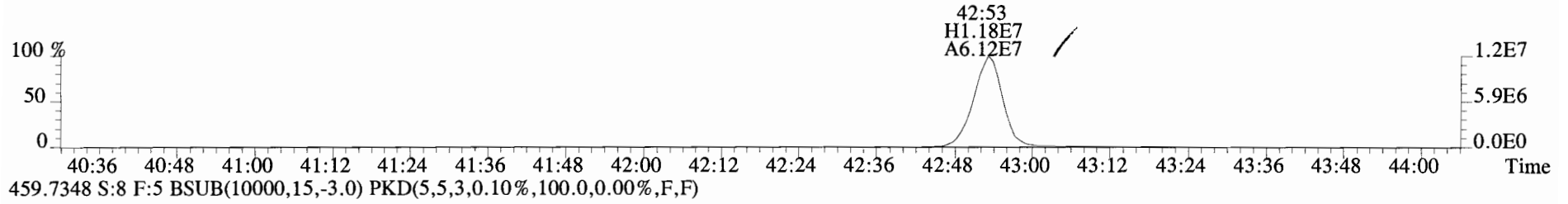


File:140916D2 #1-325 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

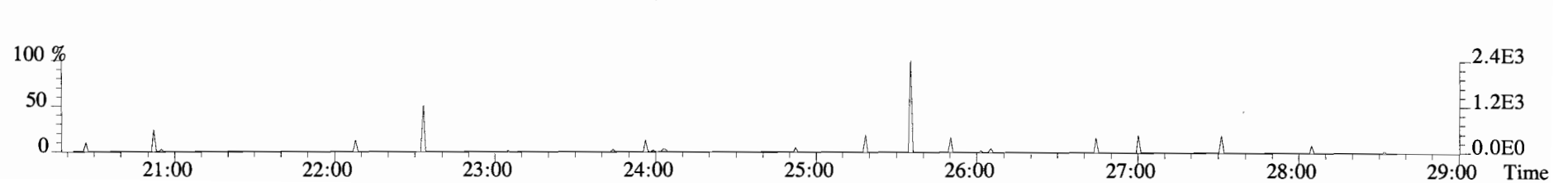
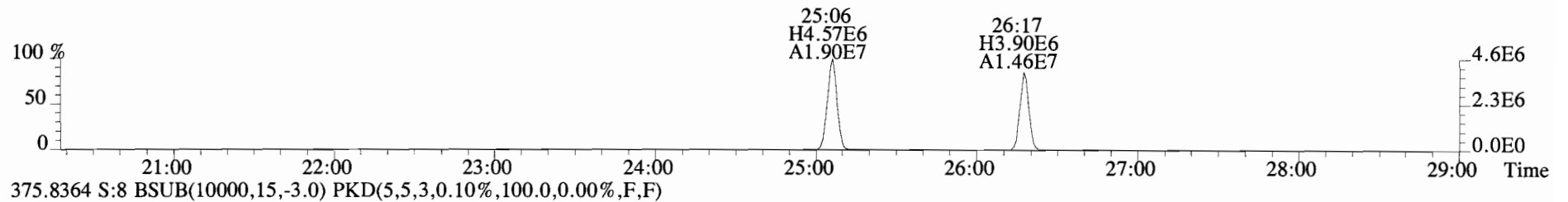
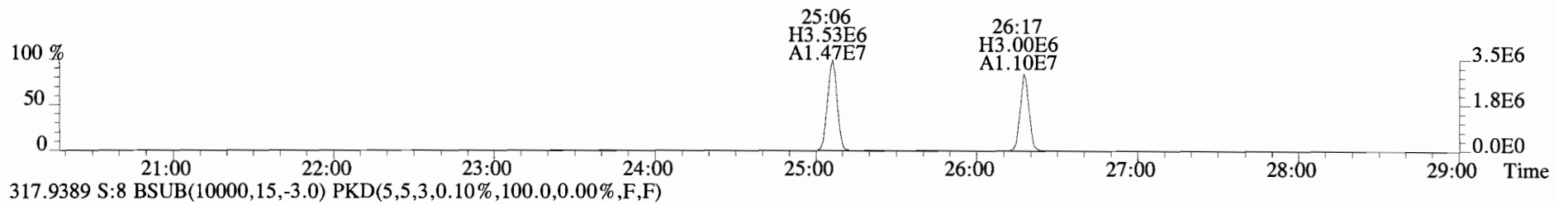
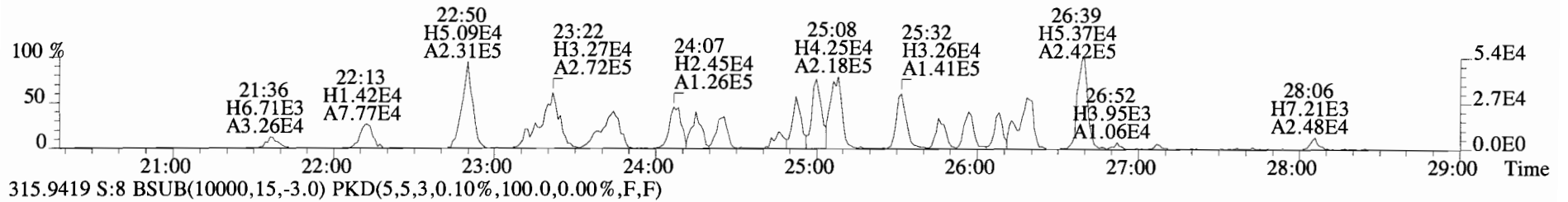
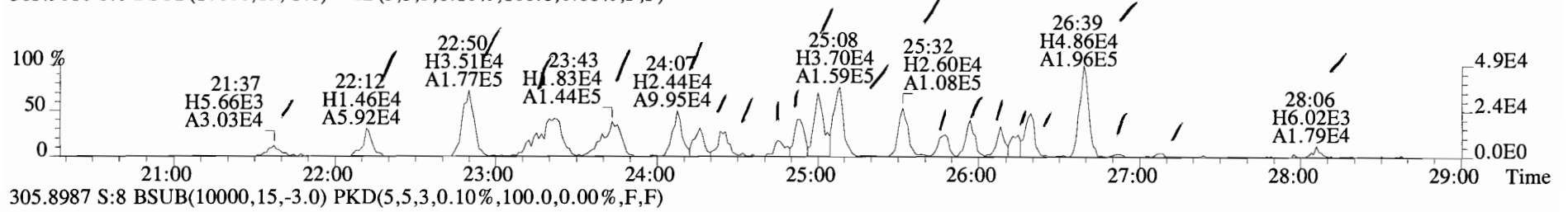




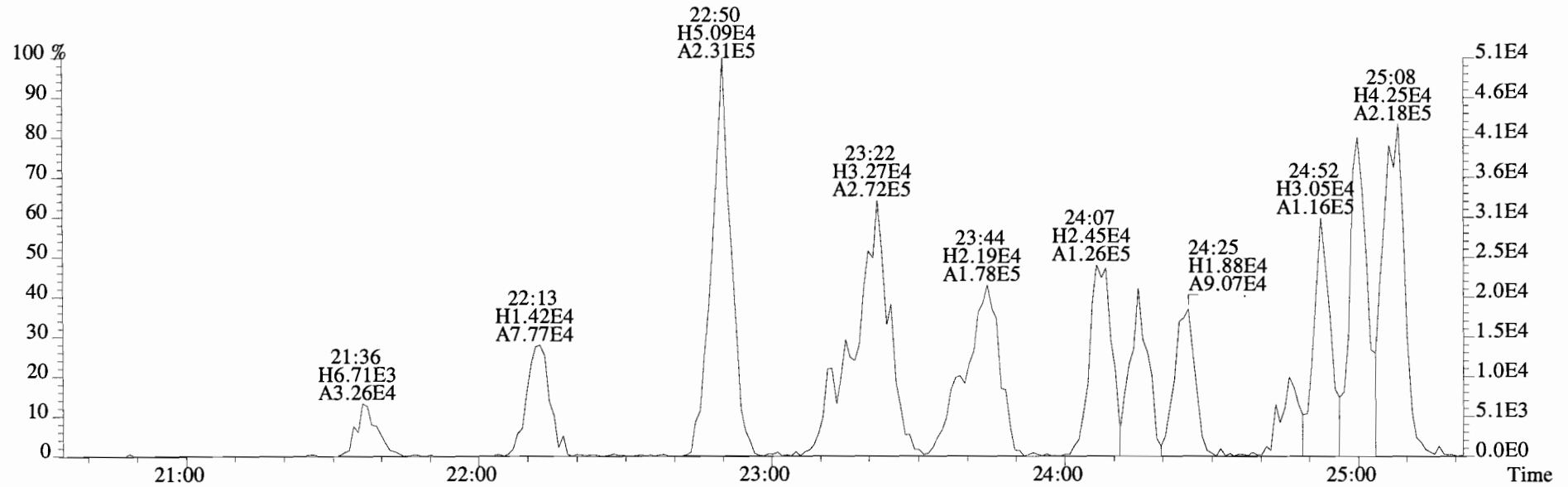
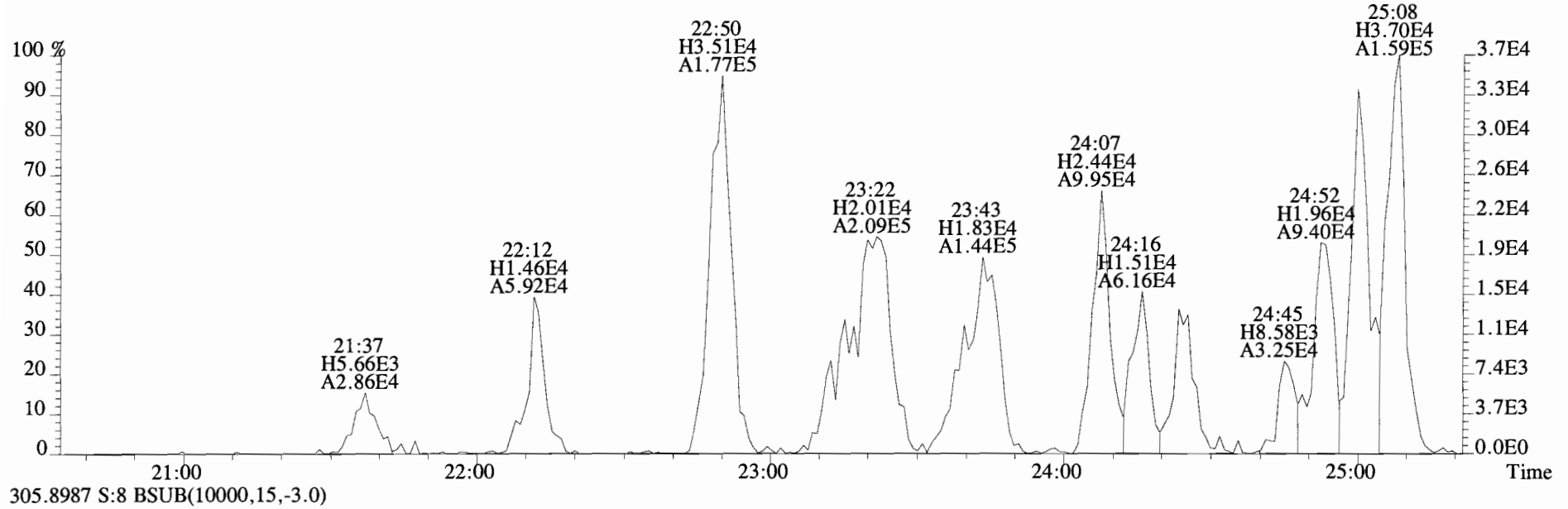
File:140916D2 #1-389 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



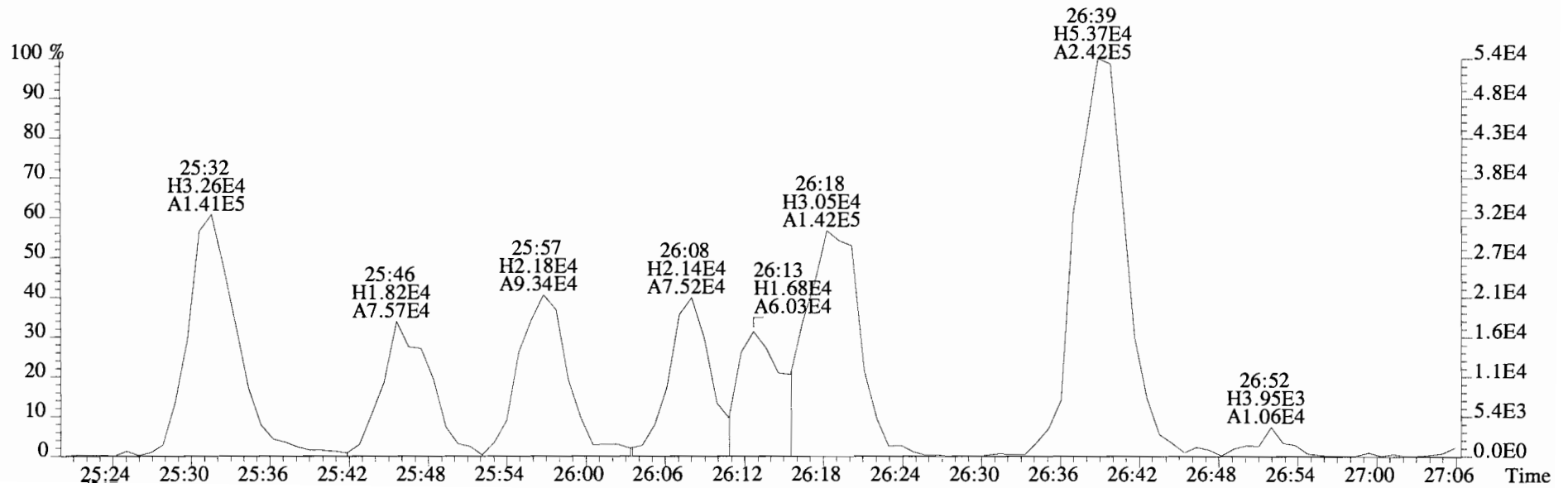
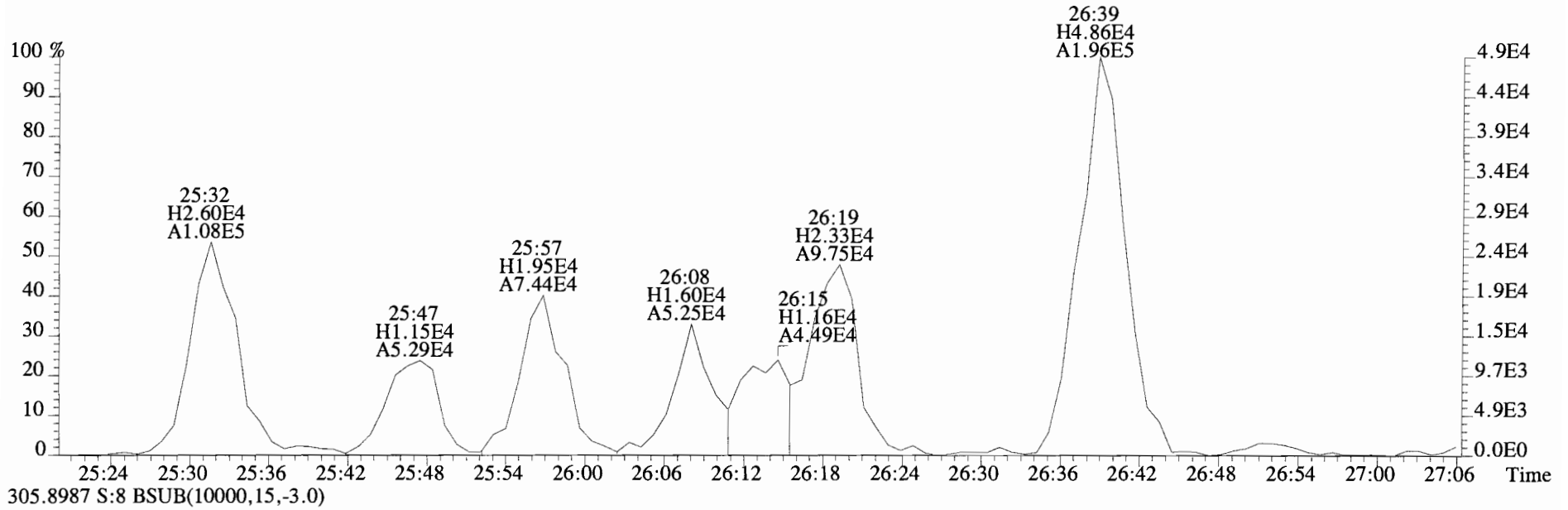
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



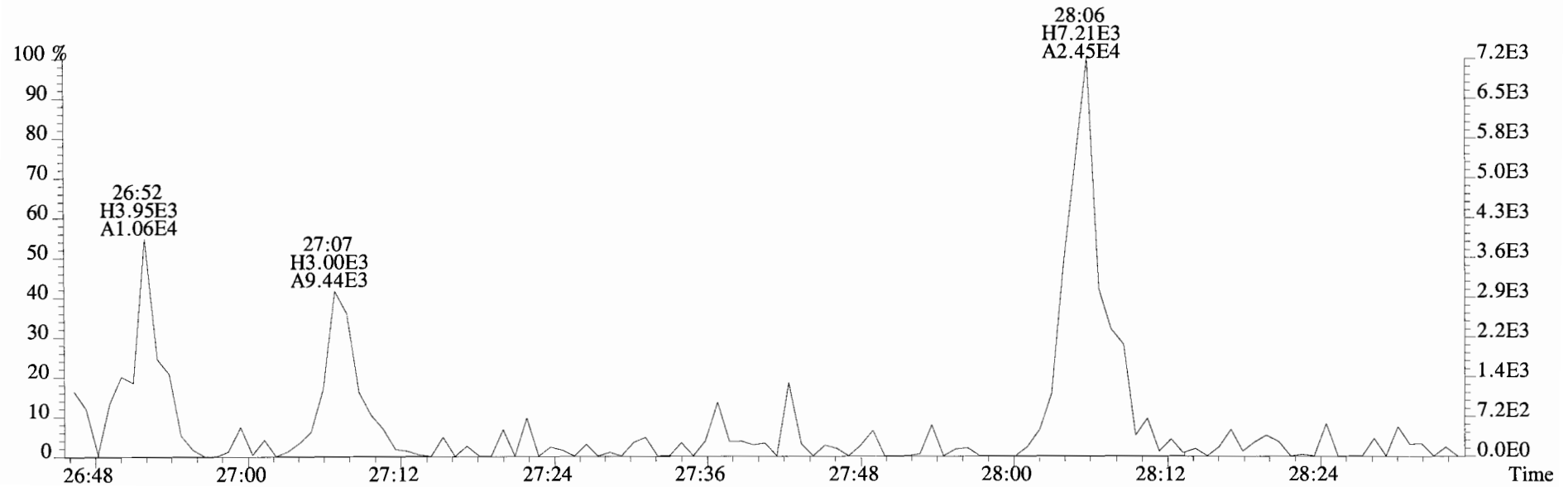
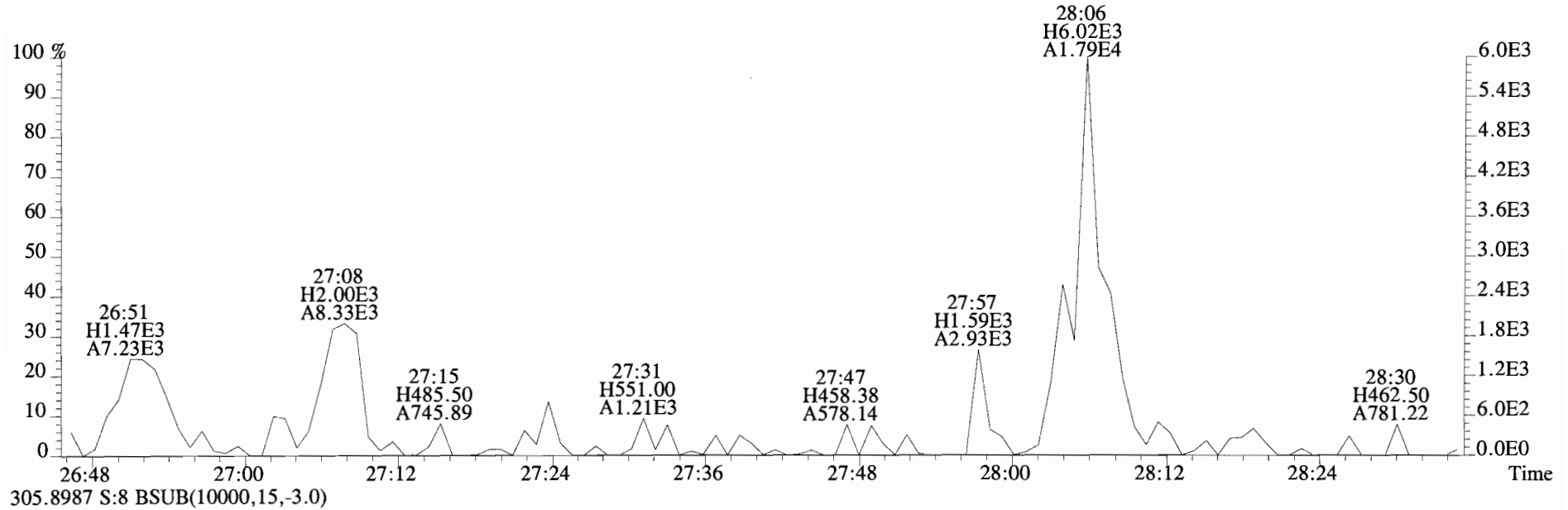
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0)



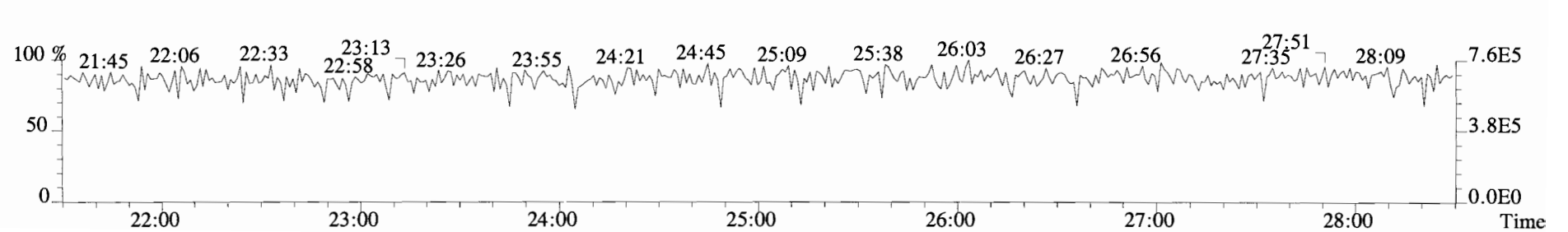
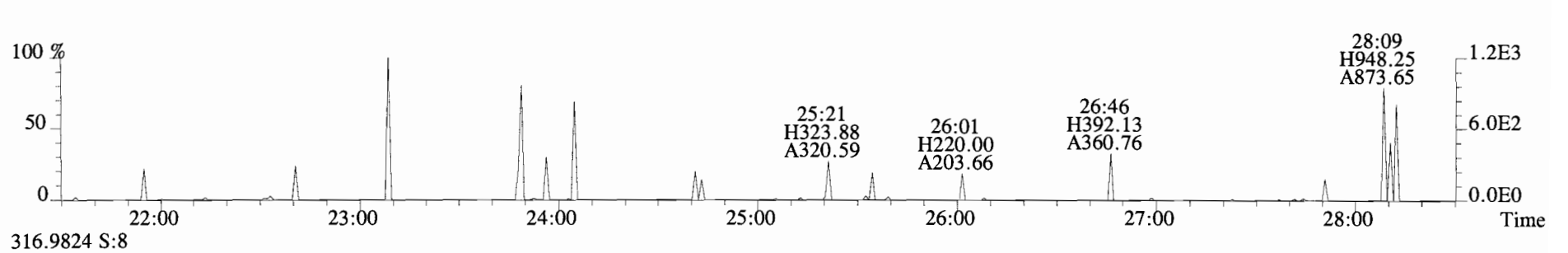
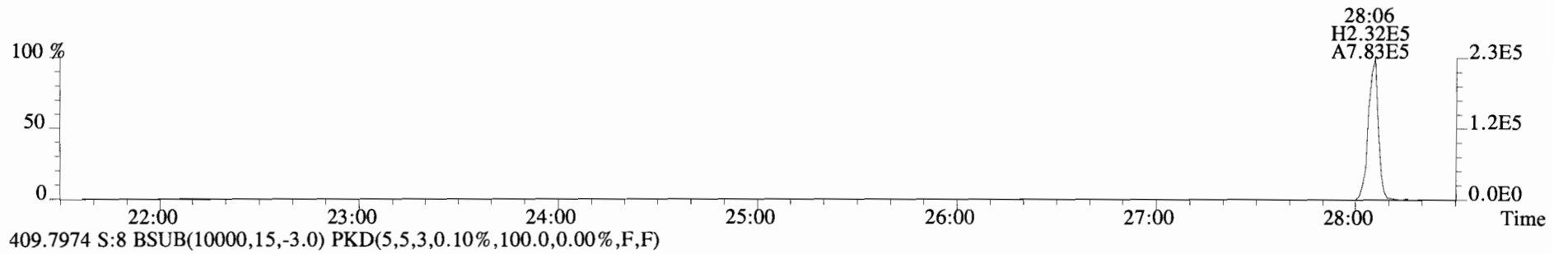
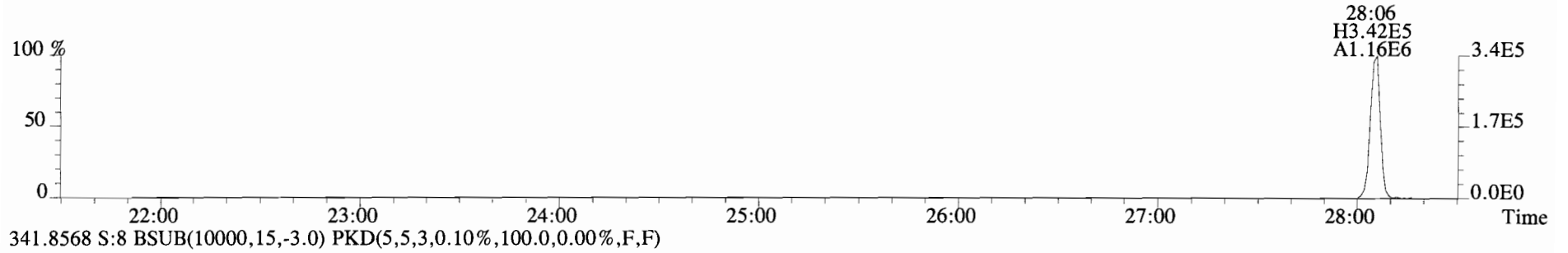
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
 303.9016 S:8 BSUB(10000,15,-3.0)



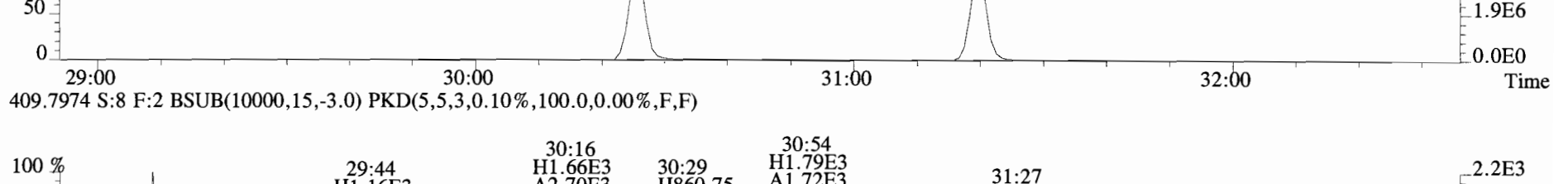
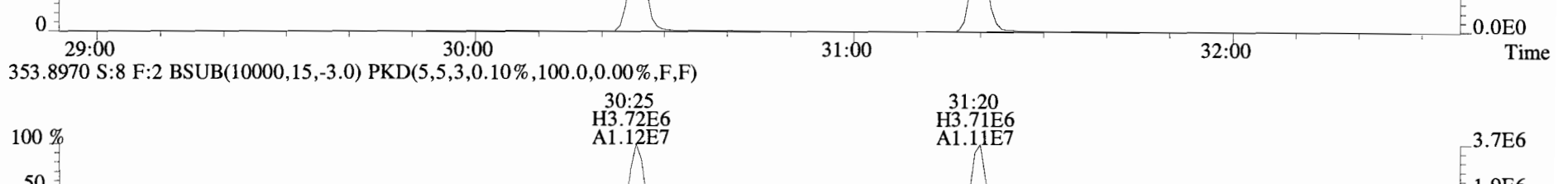
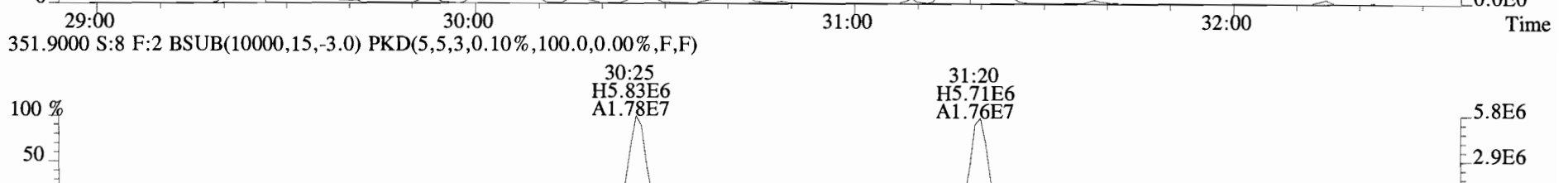
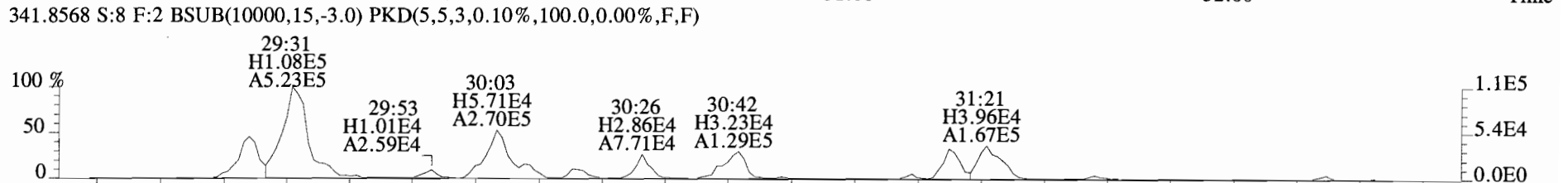
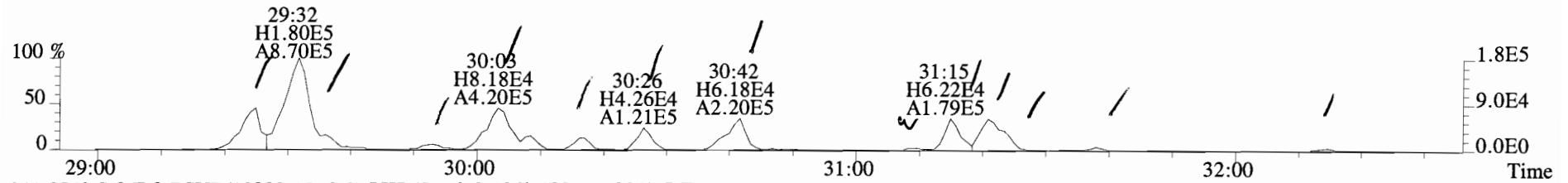
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0)



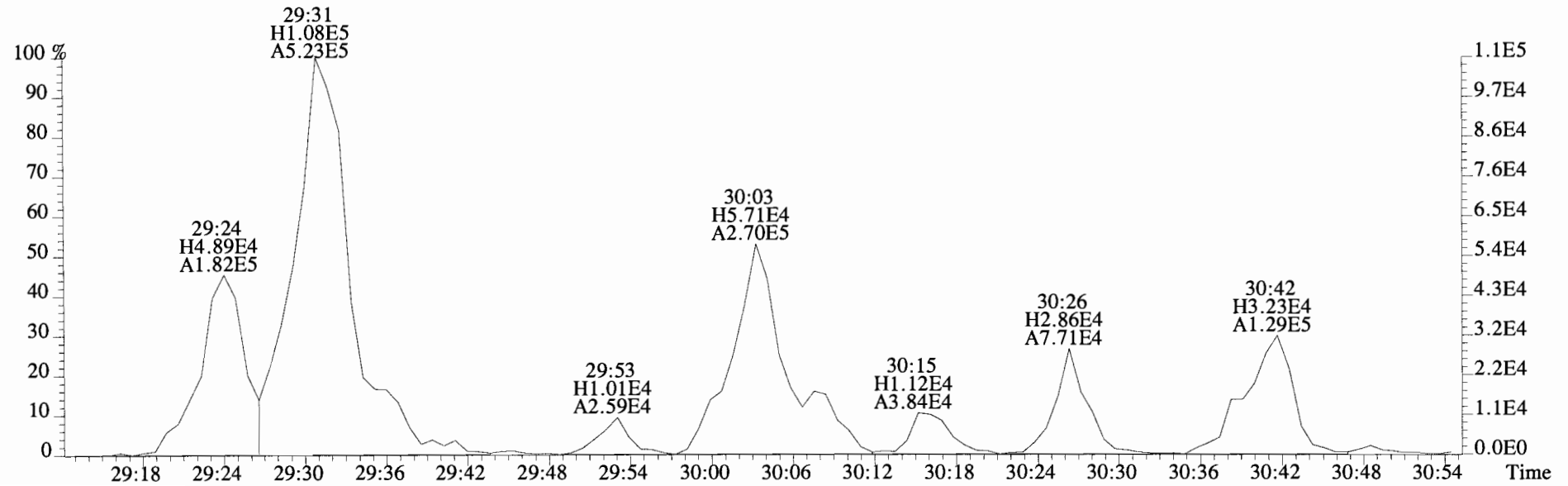
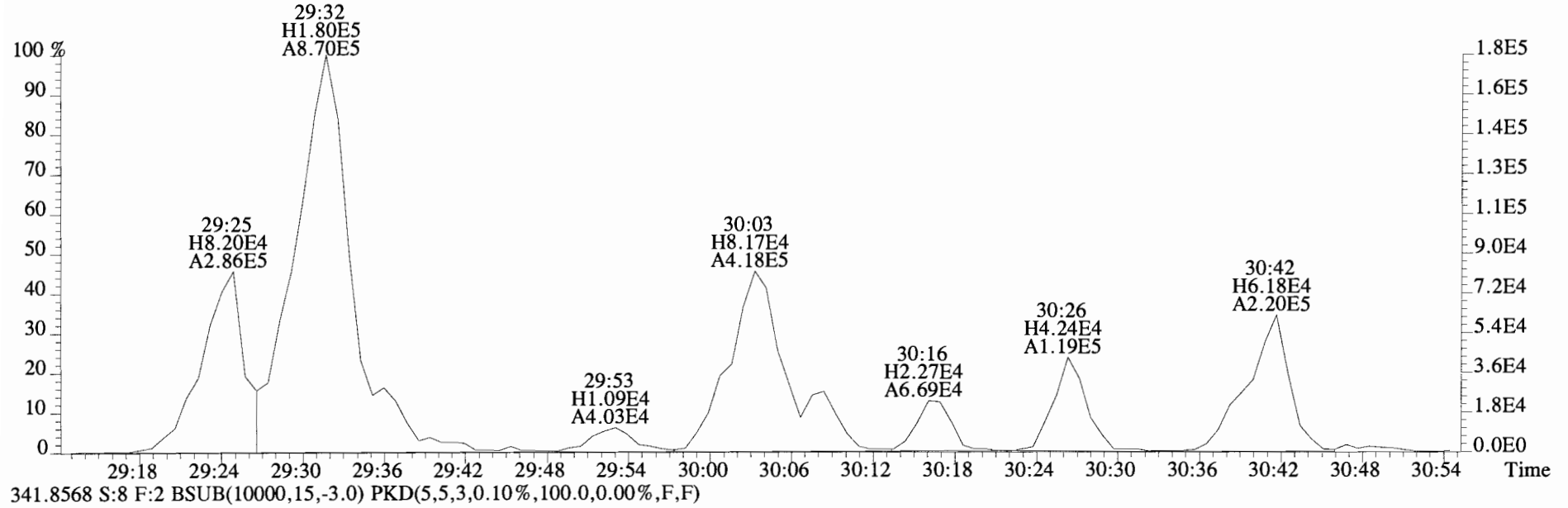
File:140916D2 #1-551 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140916D2 #1-256 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 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)

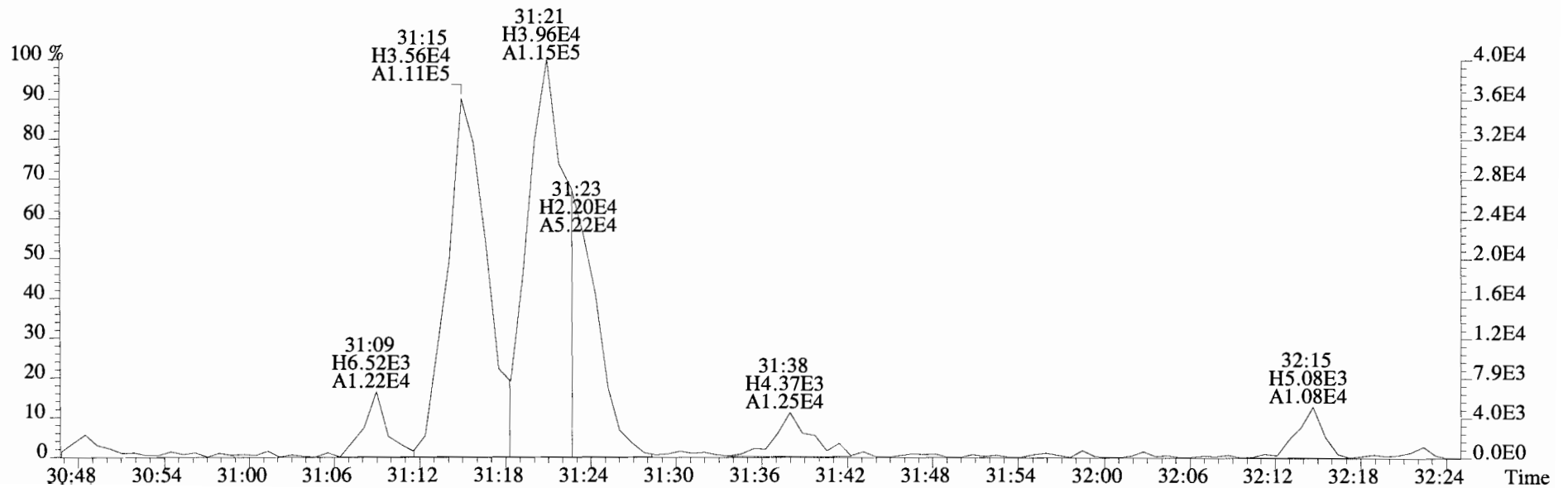
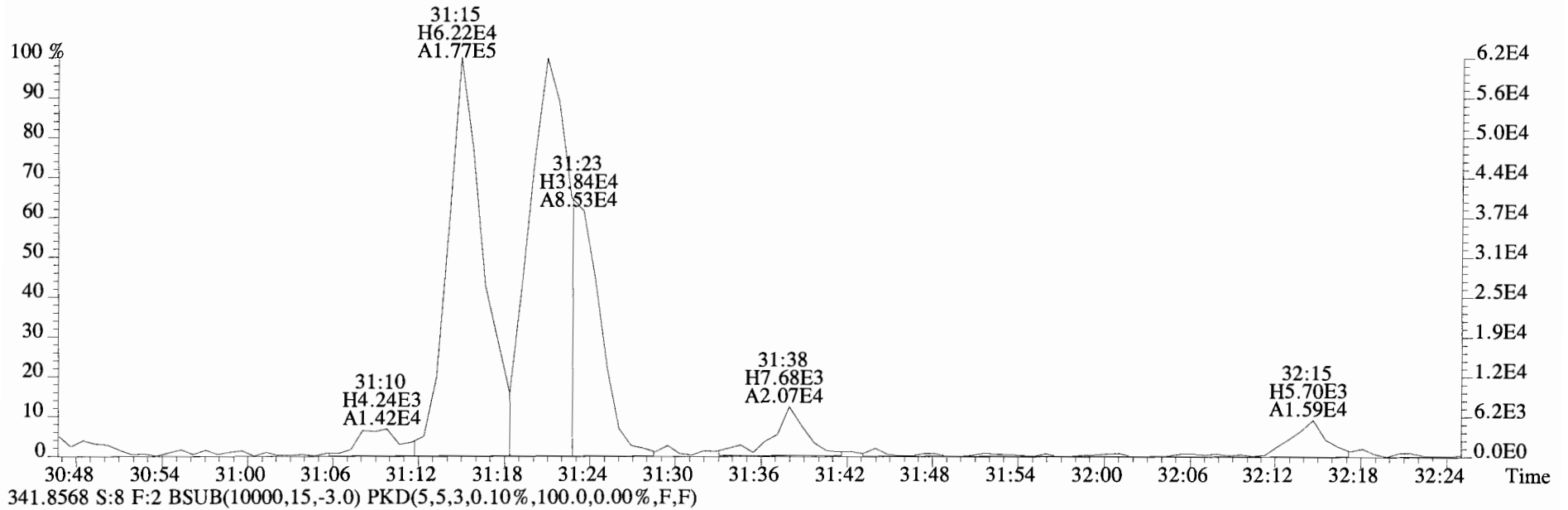


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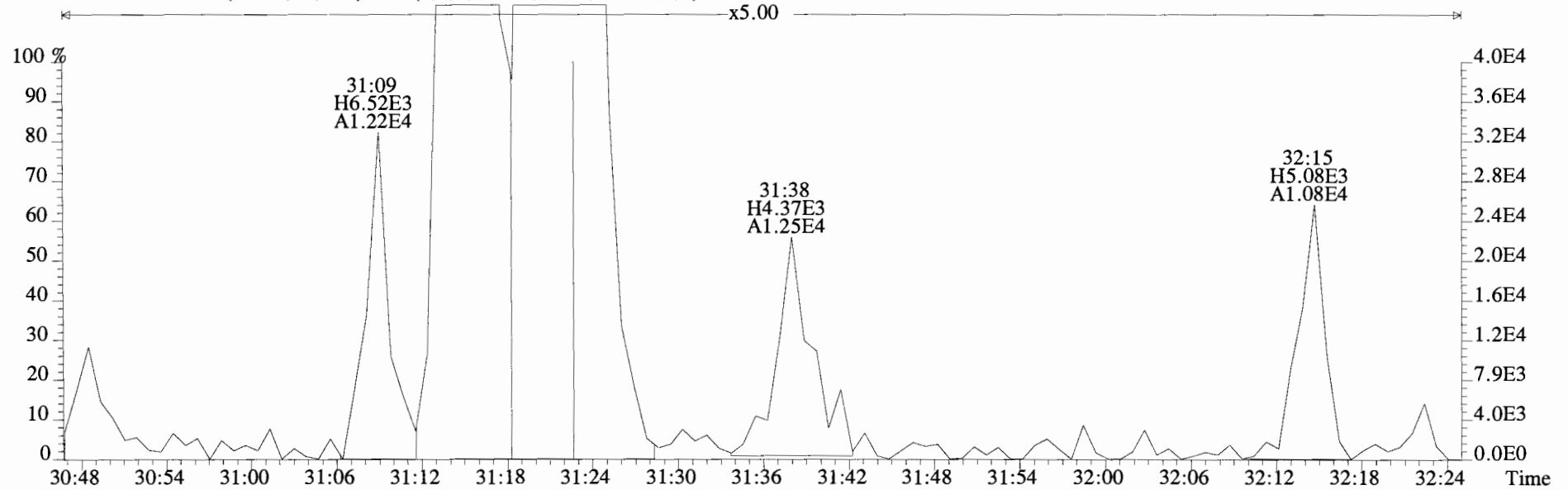
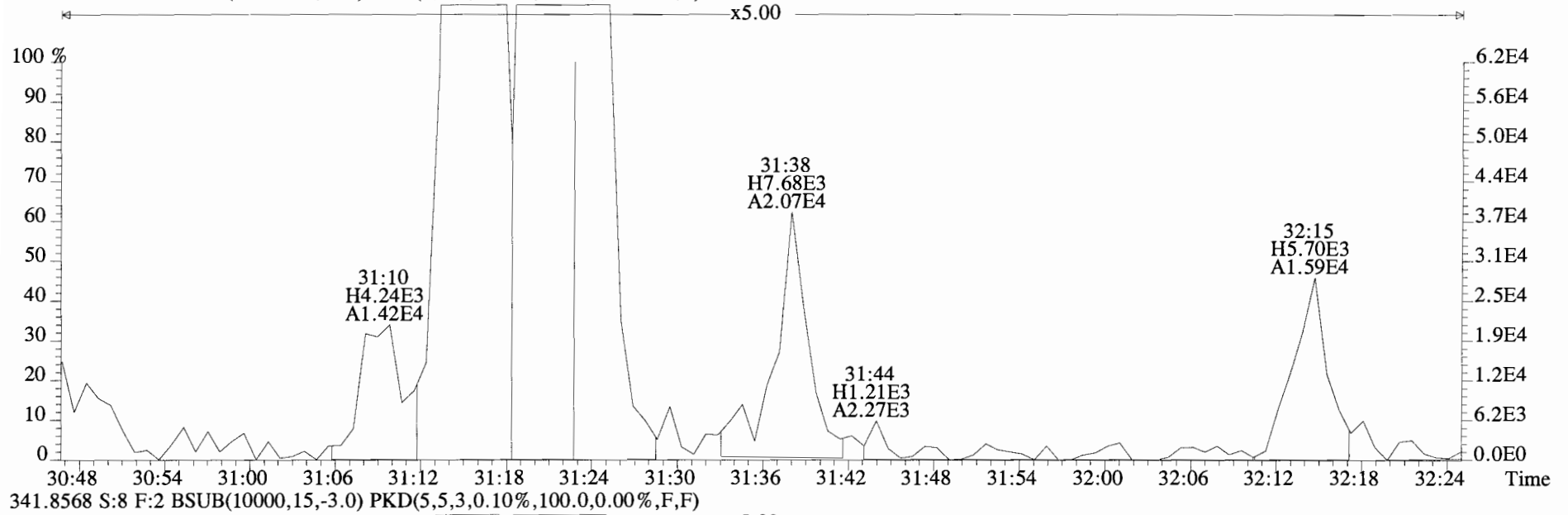




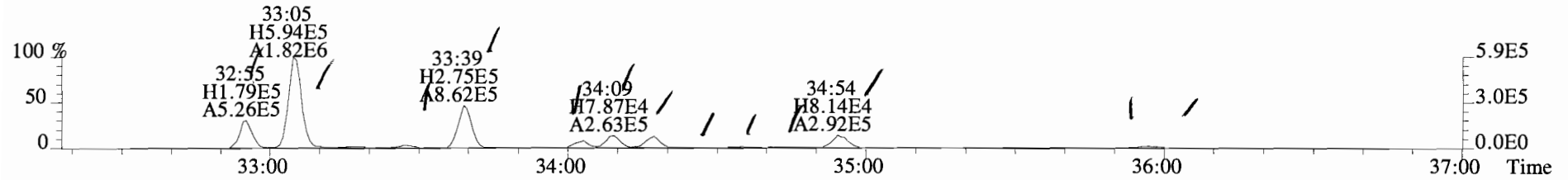
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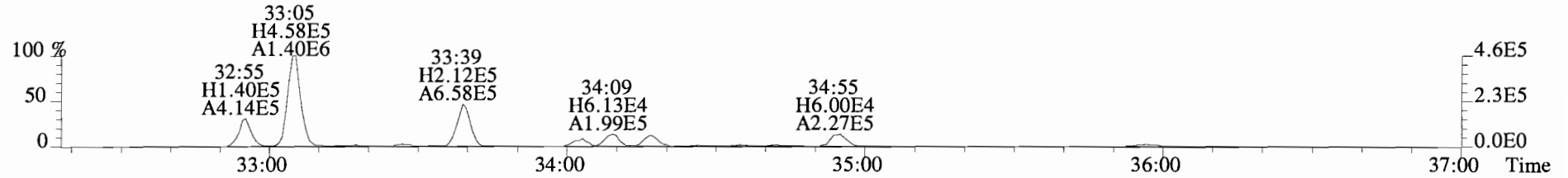
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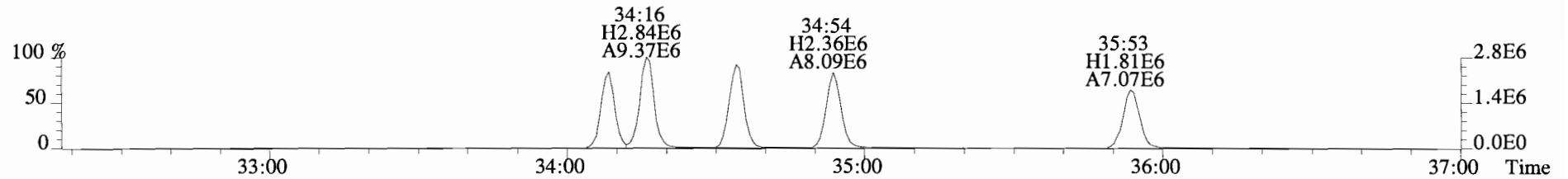
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



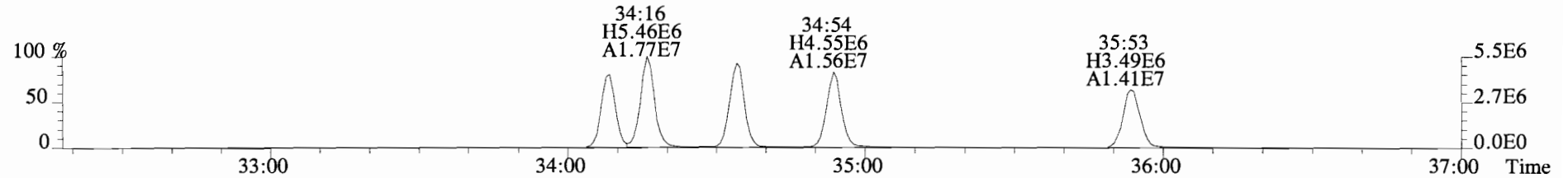
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



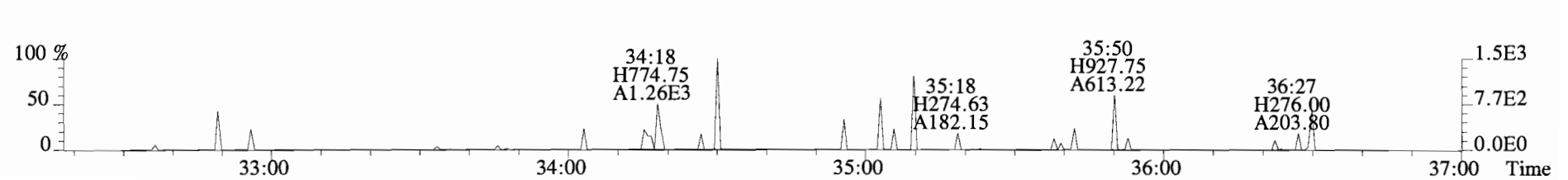
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



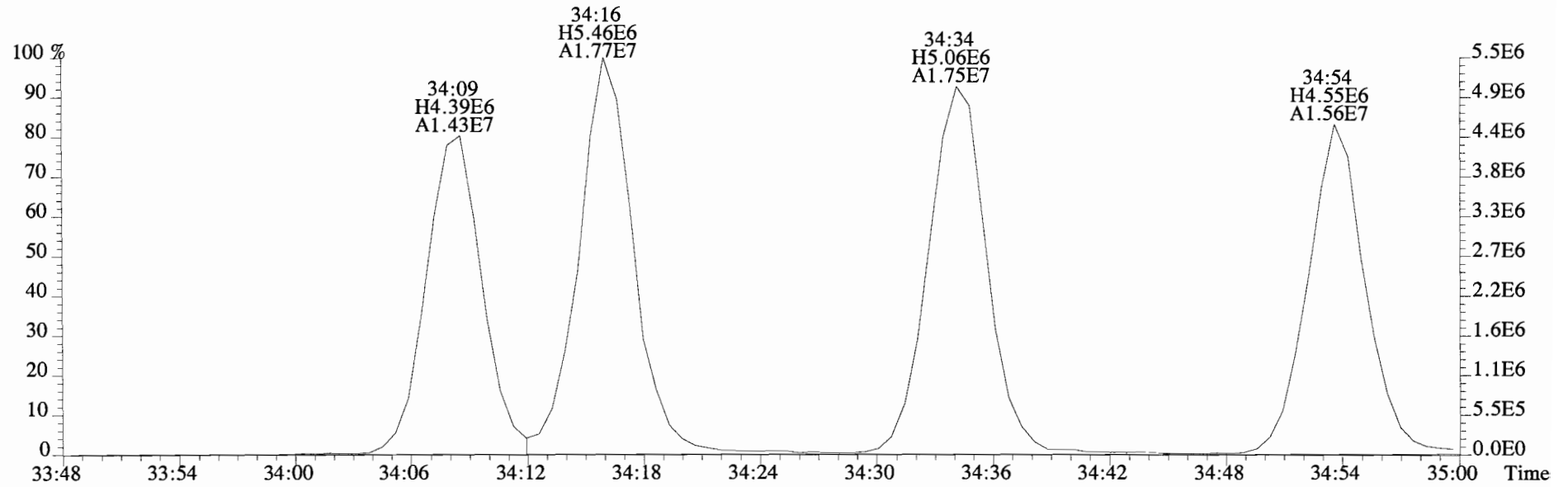
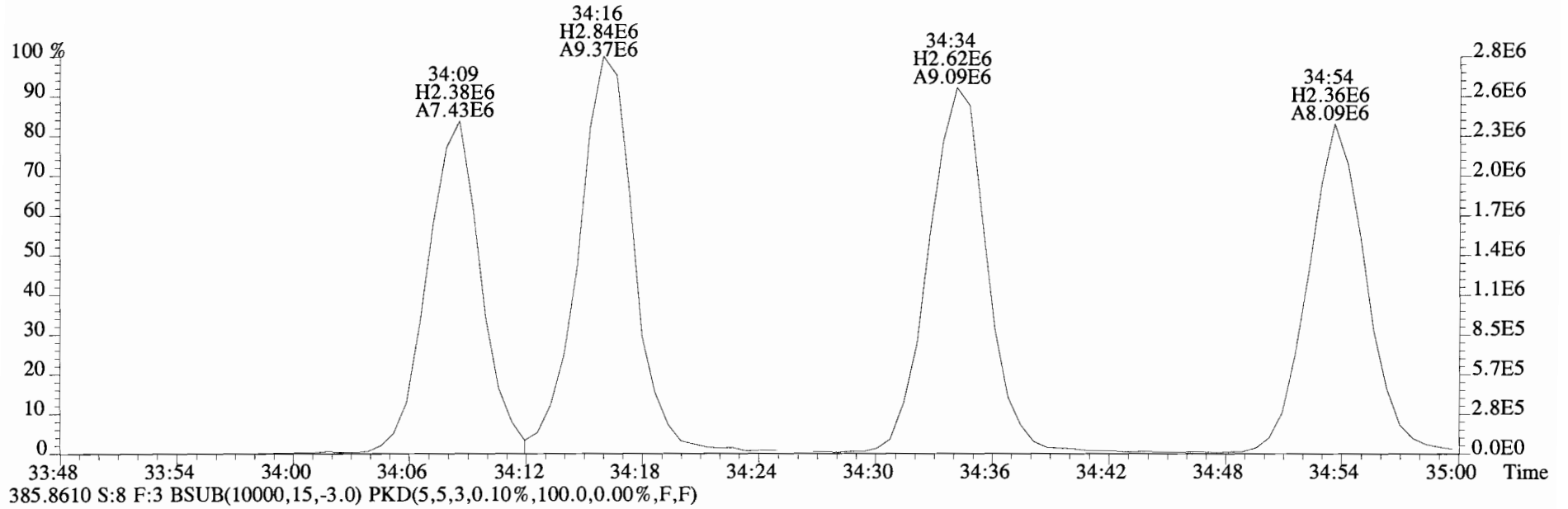
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



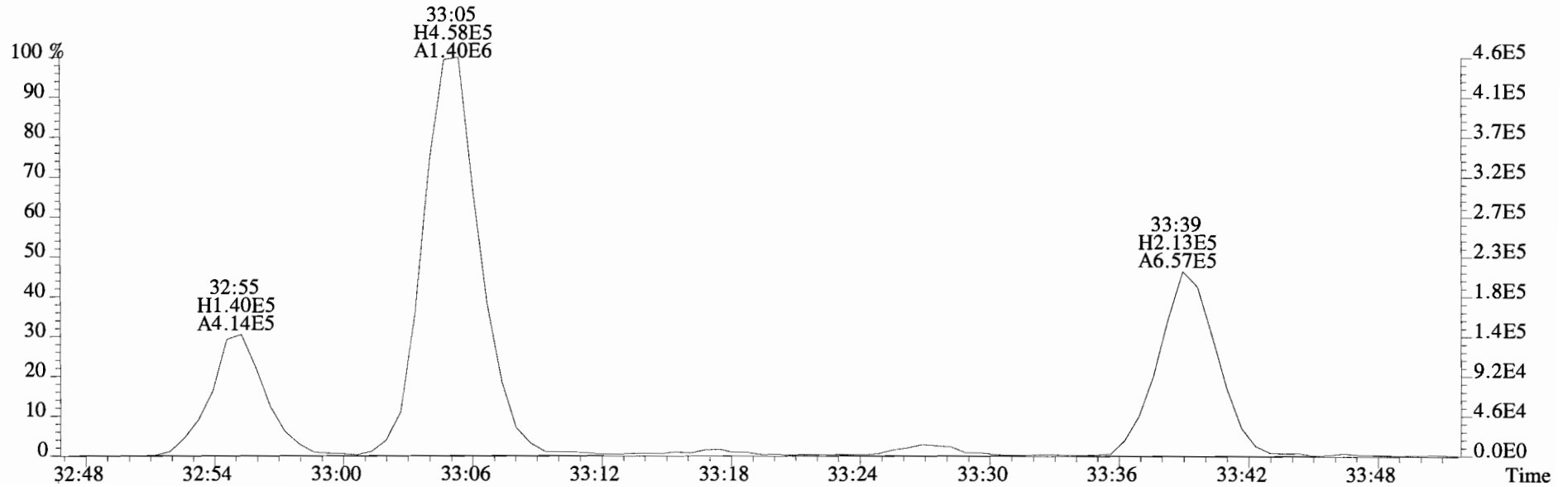
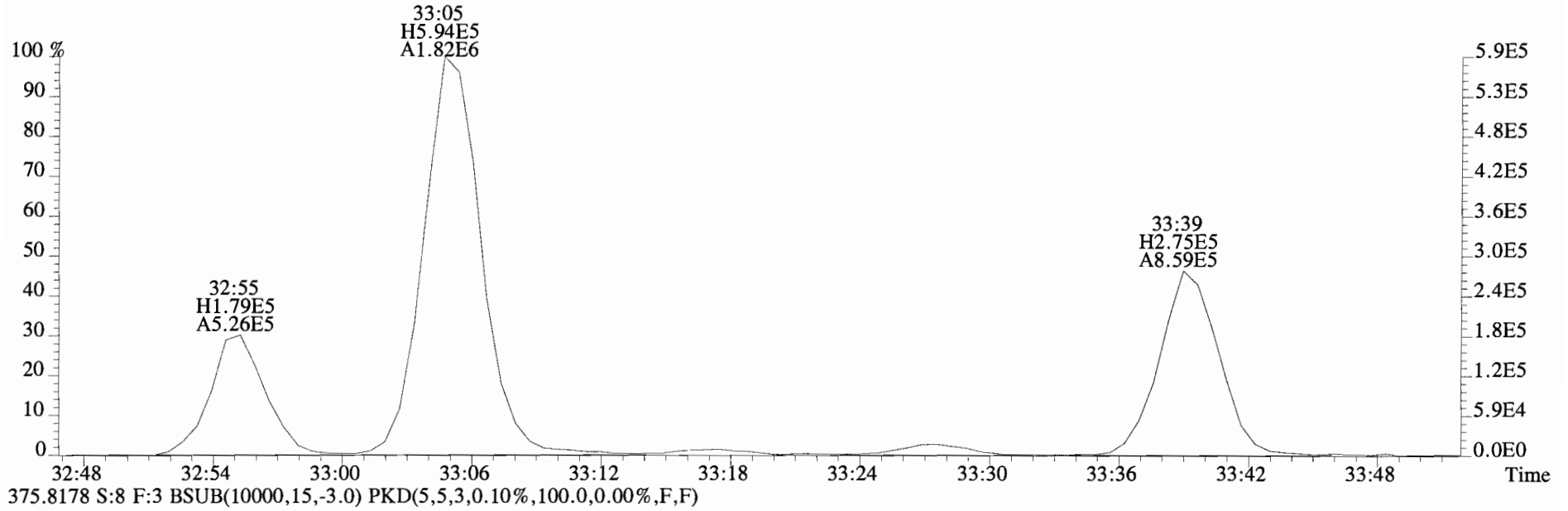
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



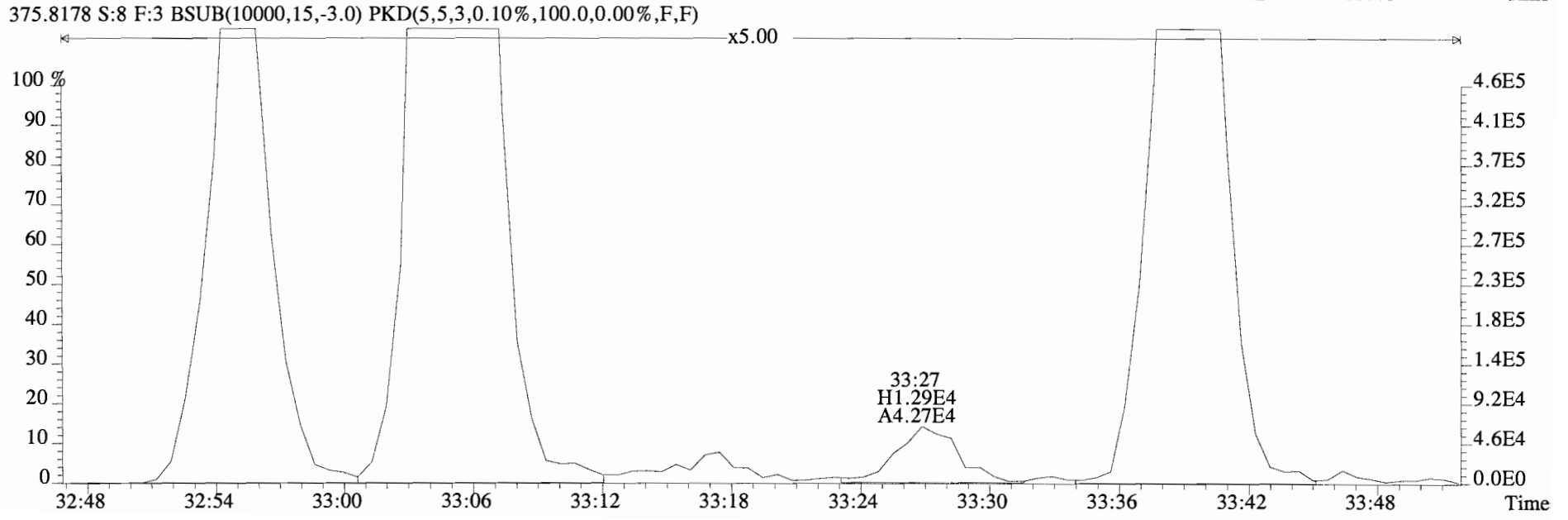
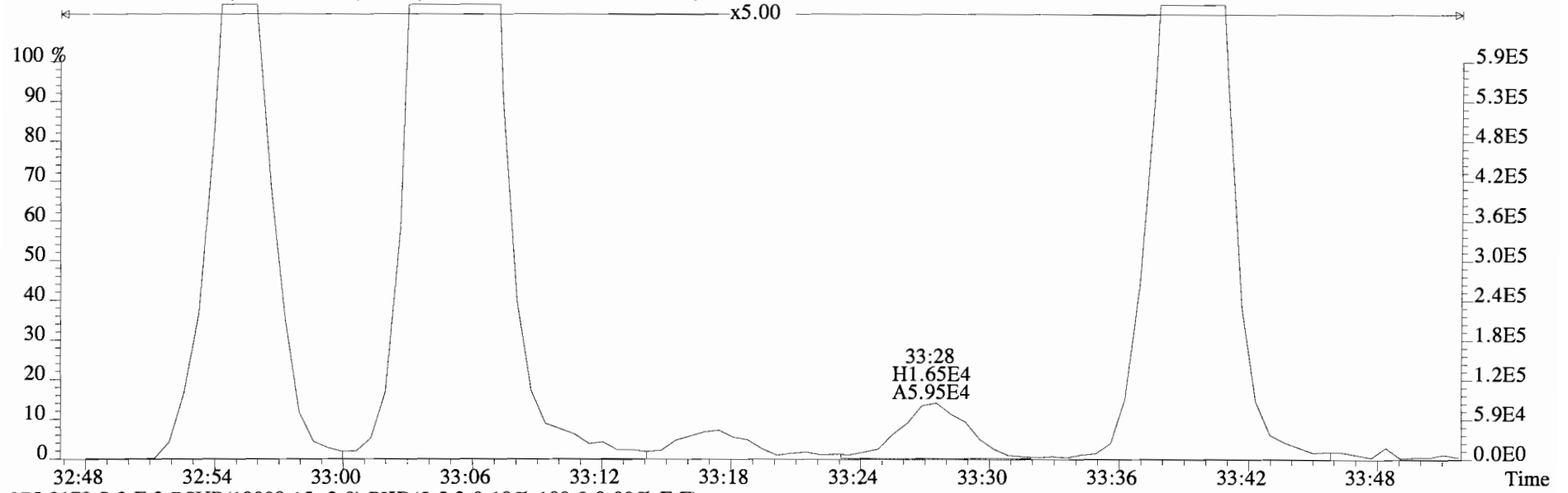
File:140916D2 #1-386 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



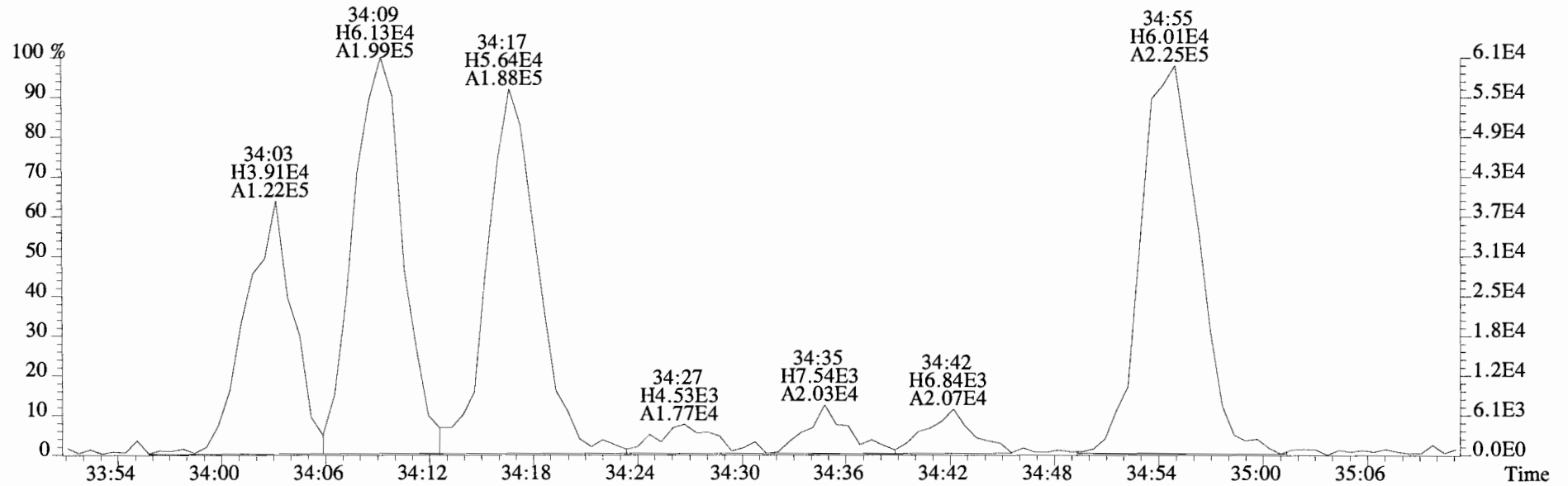
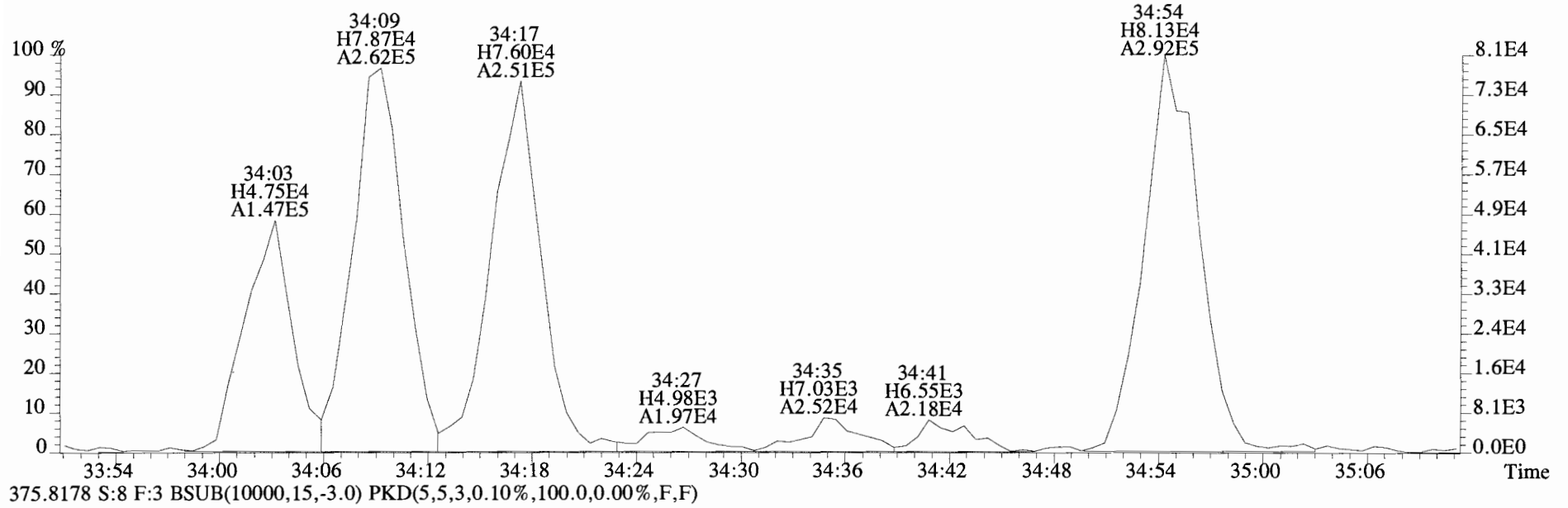
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



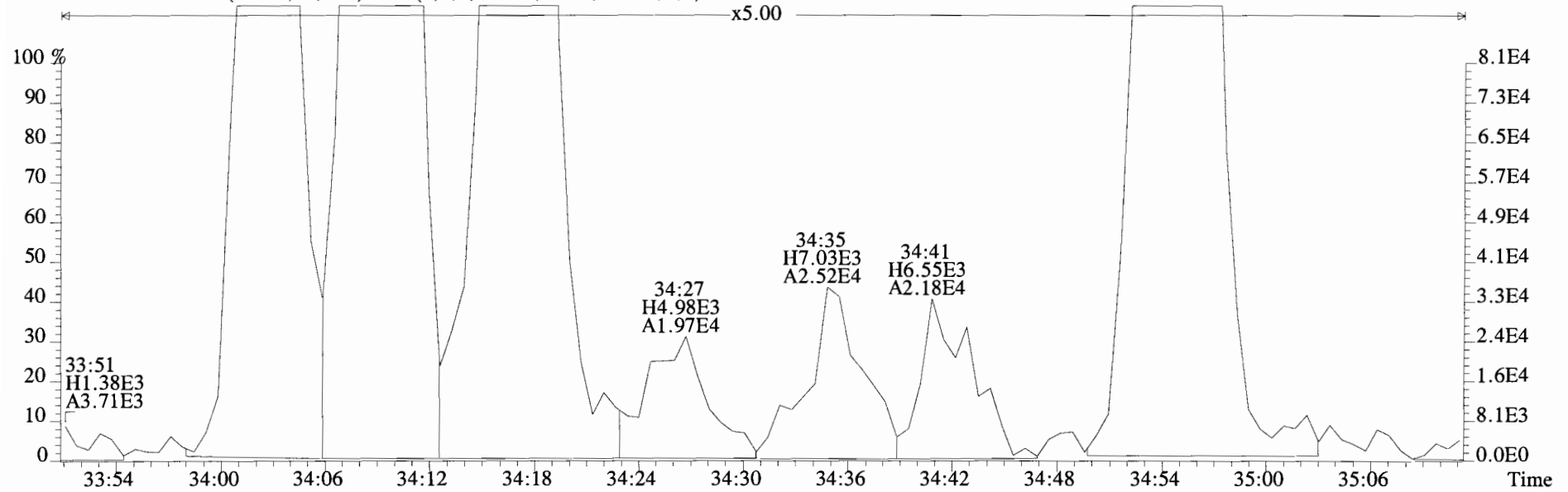
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373.8207 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



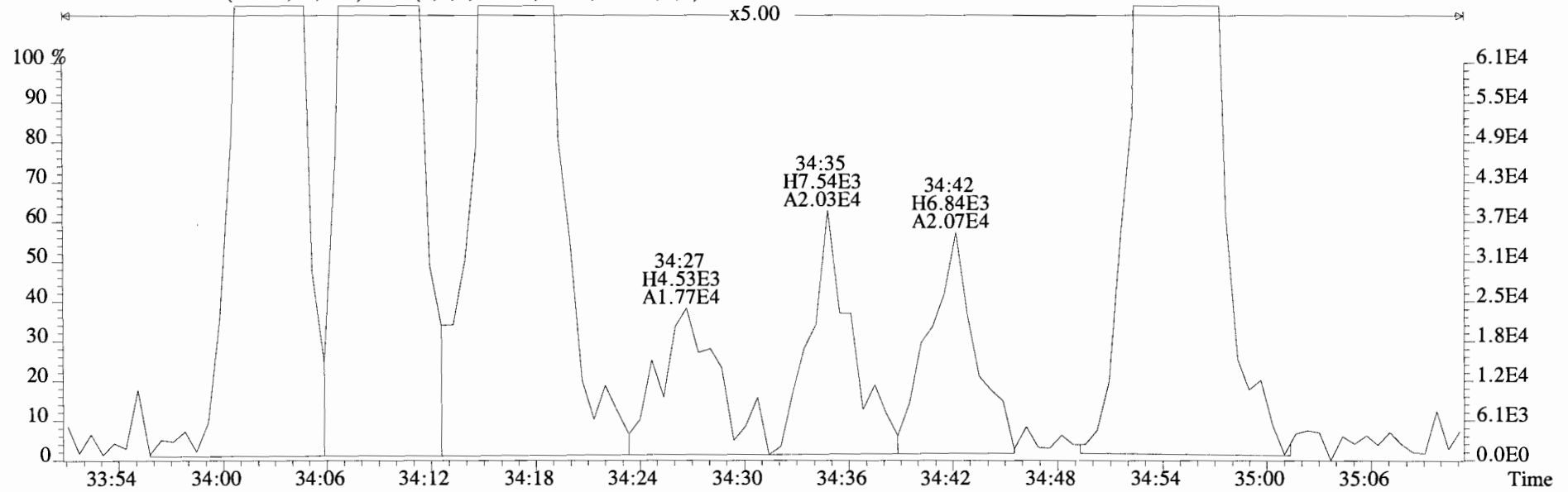
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File:140916D2 #1-386 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
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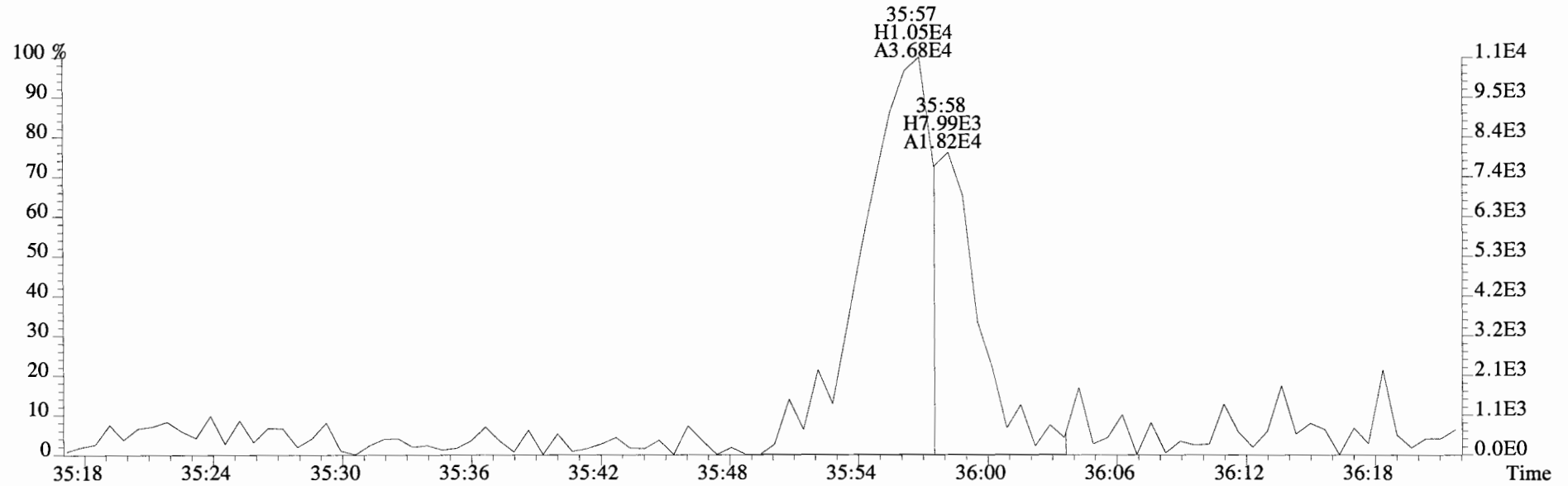
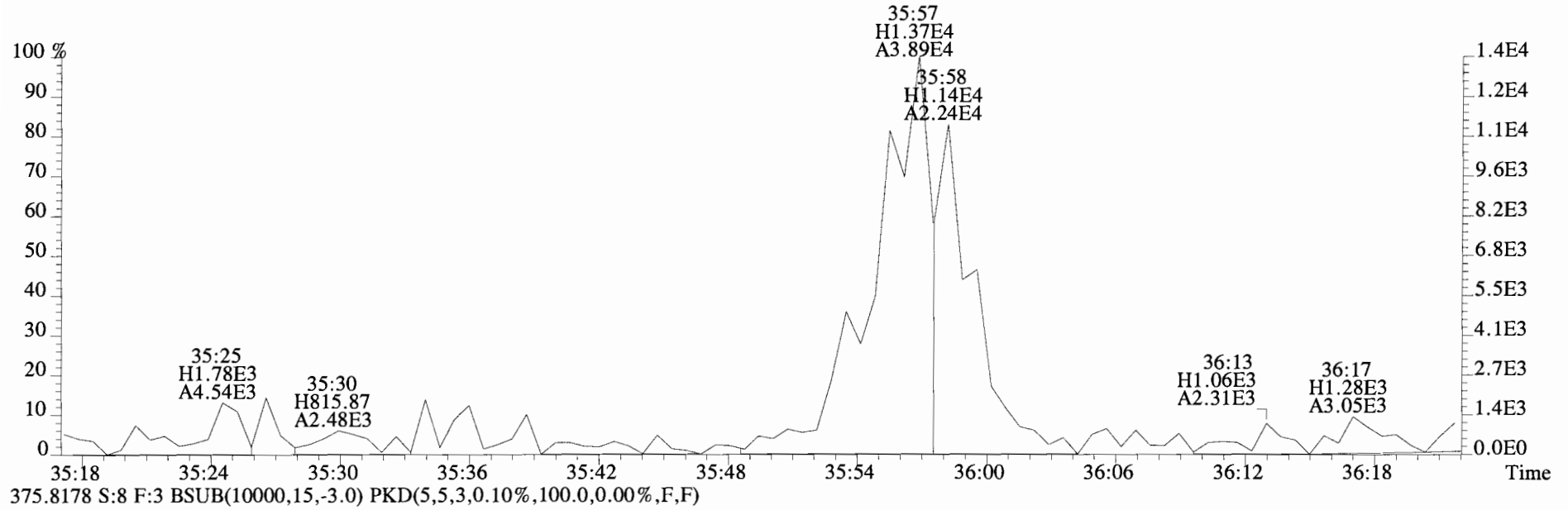


375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

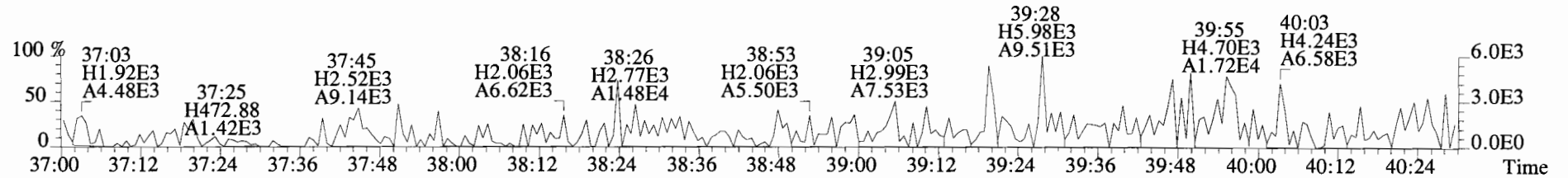
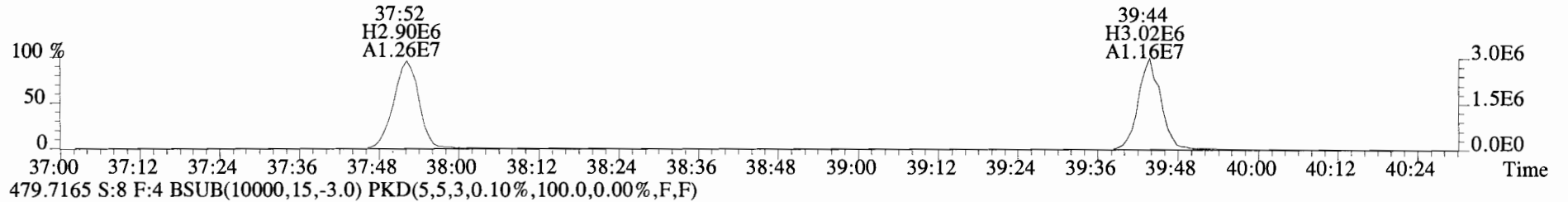
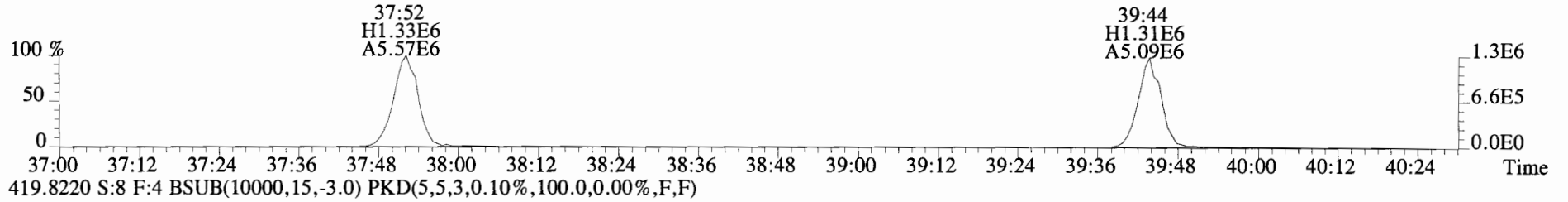
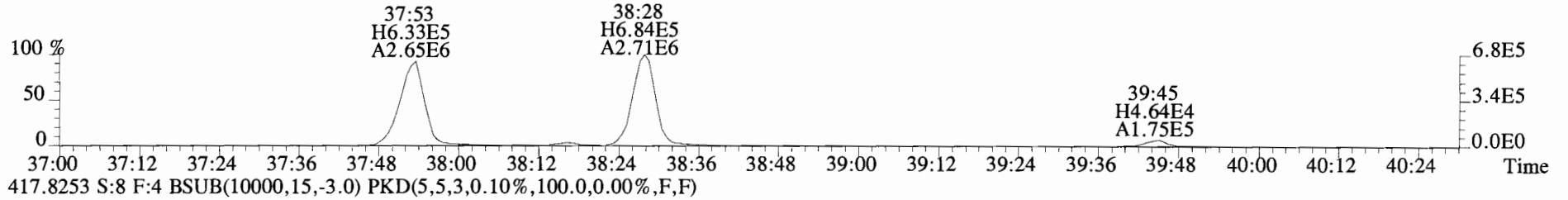
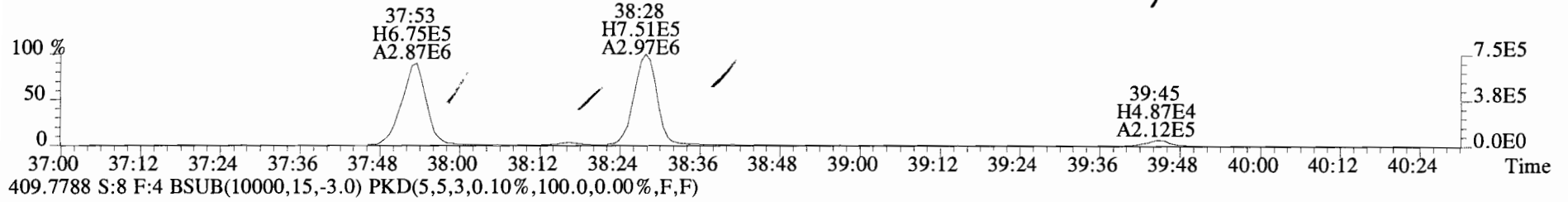




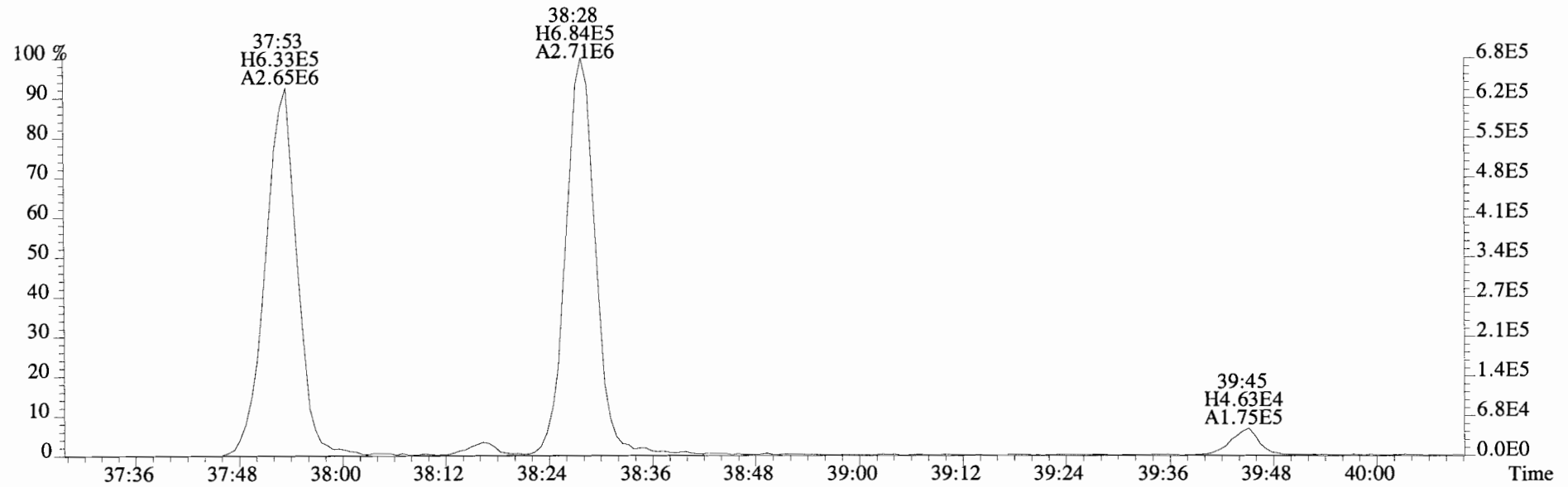
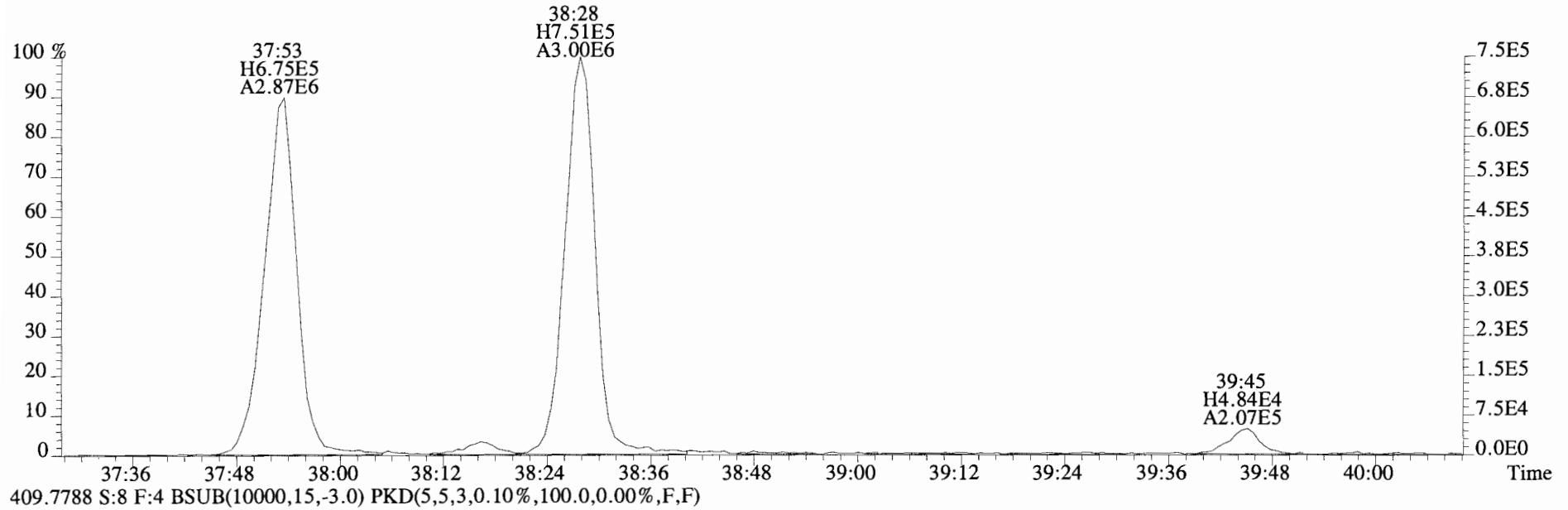
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



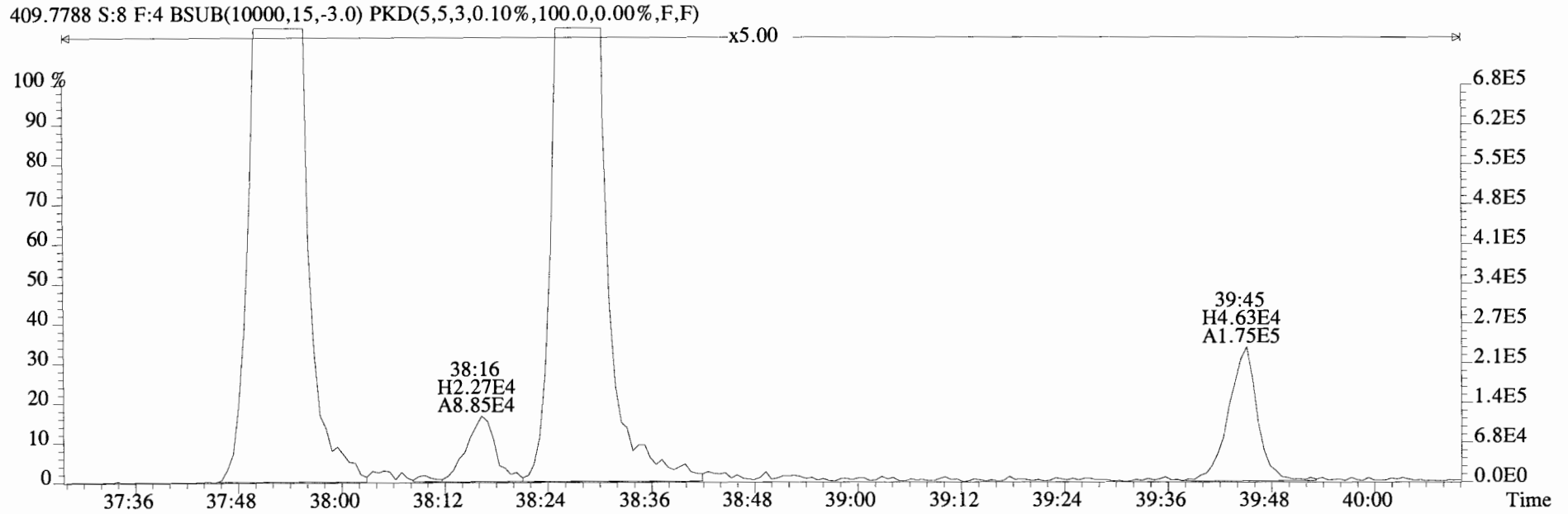
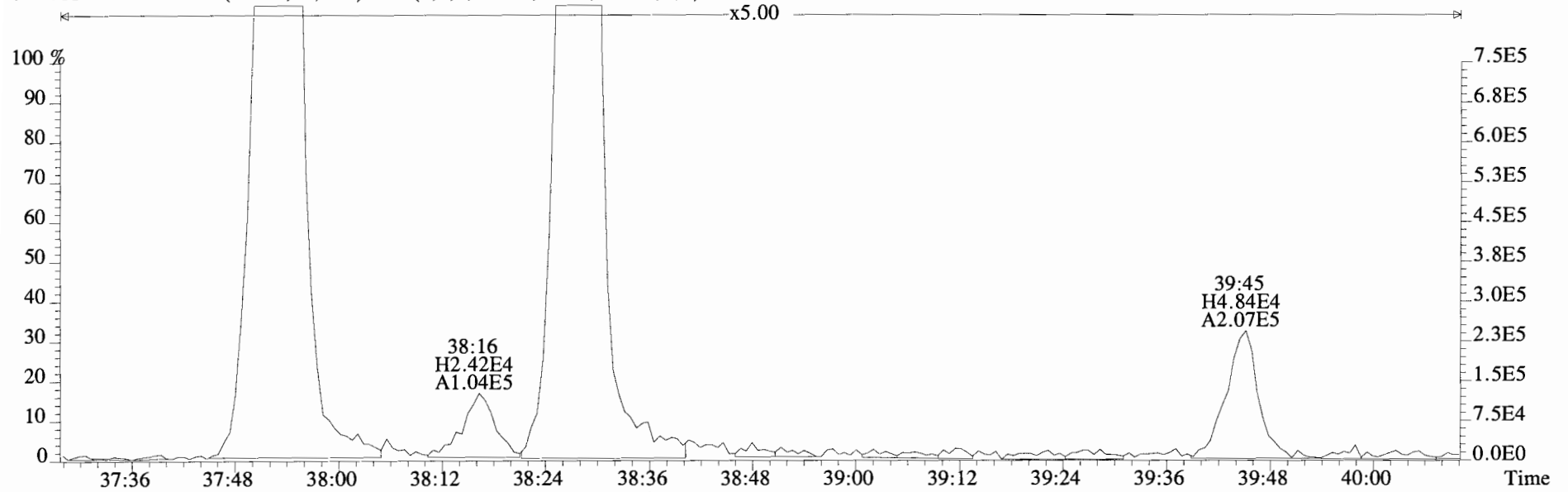
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



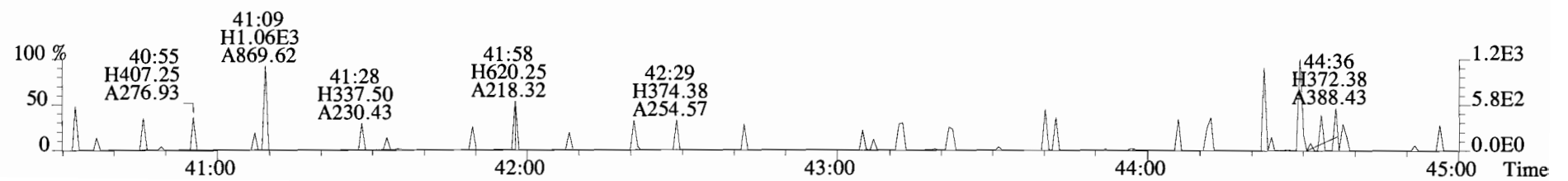
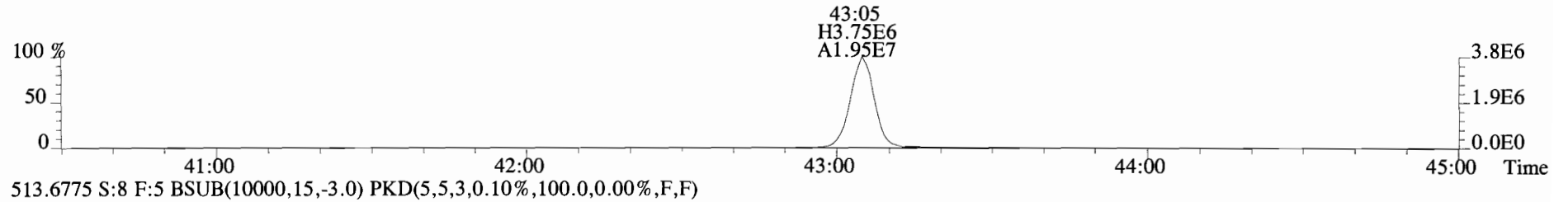
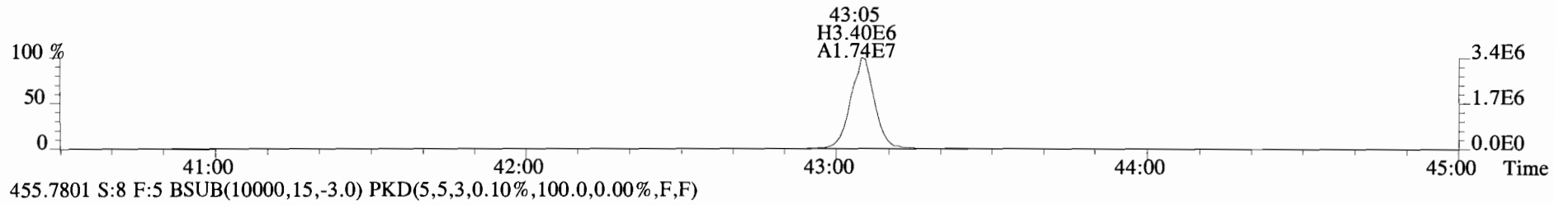
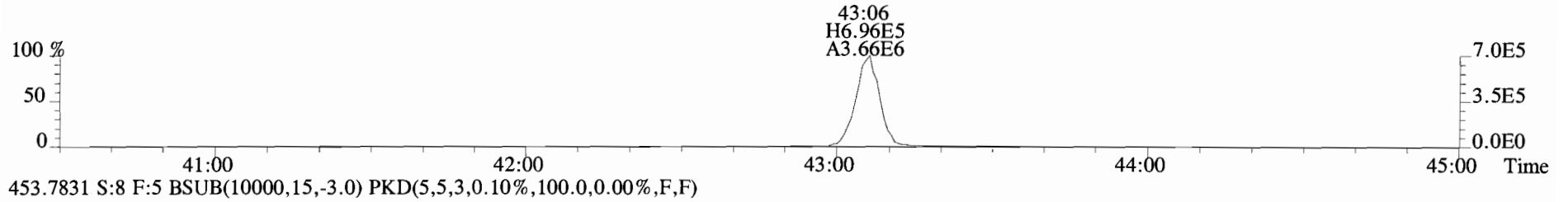
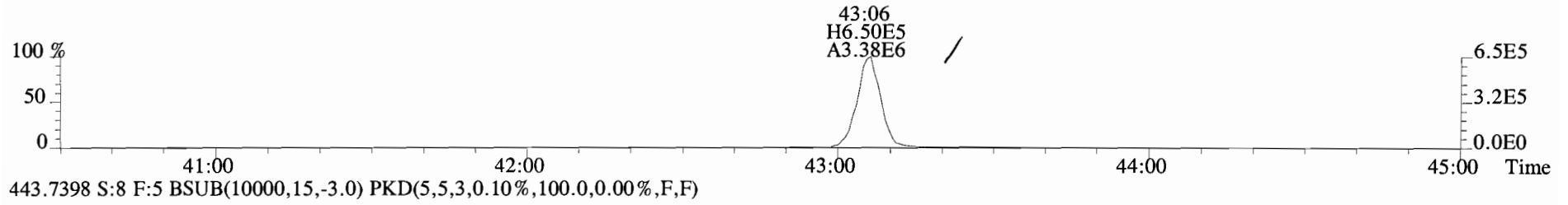
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140916D2 #1-325 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 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:140916D2 #1-389 Acq:16-SEP-2014 20:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400647-04 CS-CB-01-20140903-S 12.3 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)



## **CONFIRMATION**

Dataset: C:\MassLynx\Default.pro\Results\140915F1\10915F1\_4.qld

Last Altered: Tuesday, September 16, 2014 09:03:11 Pacific Daylight Time

Printed: Tuesday, September 16, 2014 09:04:44 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 16 Sep 2014 07:41:43

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225\_1613TCDFvg9-7-1-14.cdb 02 Jul 2014 07:18:51

Name: 140915F1\_4, Date: 15-Sep-2014, Time: 19:17:35, ID: 1400647-04RE2 CS-CB-01-20140903-S CF 12.3, Description: CS-CB-01-20140903-S CF

#	Name	Resp	RA	n/y	RRF M	wt/vol	RT	Conc	%Rec	DL
1	2,3,7,8-TCDF	1.34e3	0.66	NO	0.916	5.005	17.65	3.4188		1.06
2	13C-2,3,7,8-TCDF	1.71e5	0.72	NO	0.987	5.005	17.65	311.32	77.9	1.50
3	13C-1,2,3,4-TCDF	2.22e5	0.77	NO	1.00	5.005	15.35	399.61	100	1.48

*CS* 9/16/14

*M<sup>2</sup>* 9/17/14

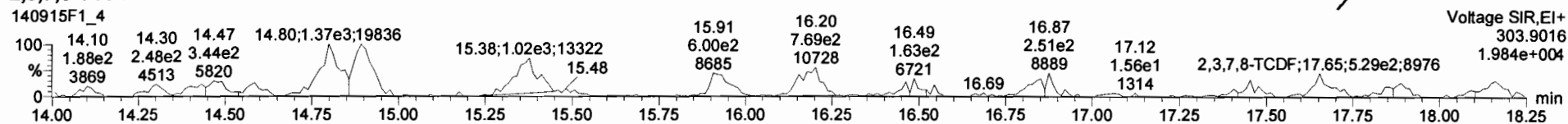
Dataset: Untitled

Last Altered: Tuesday, September 16, 2014 08:47:42 Pacific Daylight Time  
Printed: Tuesday, September 16, 2014 08:50:28 Pacific Daylight Time

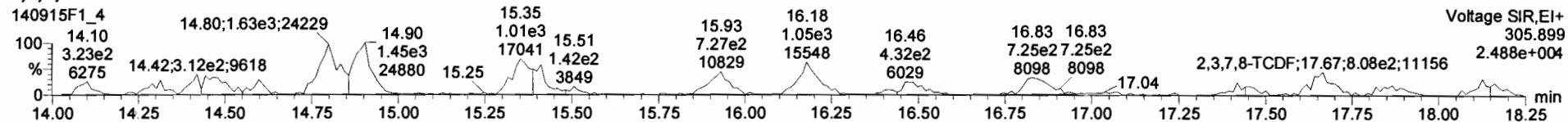
Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 16 Sep 2014 07:41:43  
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225\_1613TCDFvg9-7-1-14.cdb 02 Jul 2014 07:18:51

Name: 140915F1\_4, Date: 15-Sep-2014, Time: 19:17:35, ID: 1400647-04RE2 CS-CB-01-20140903-S CF 12.3, Description: CS-CB-01-20140903-S CF

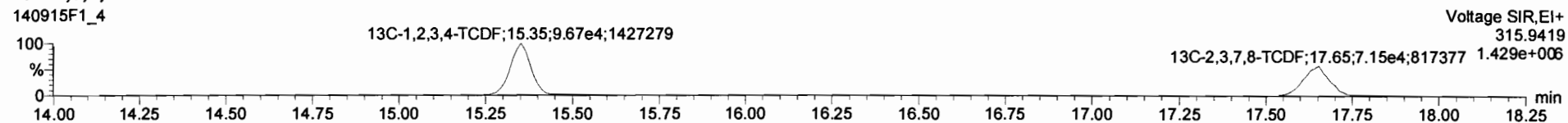
2,3,7,8-TCDF



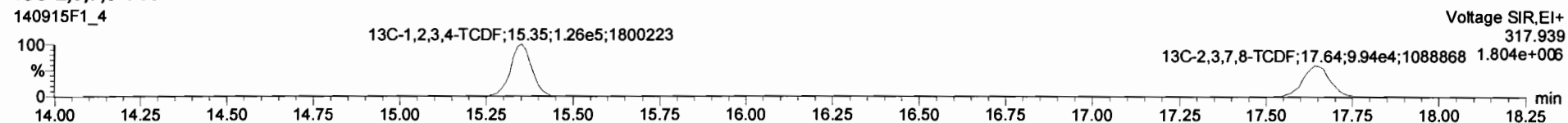
2,3,7,8-TCDF



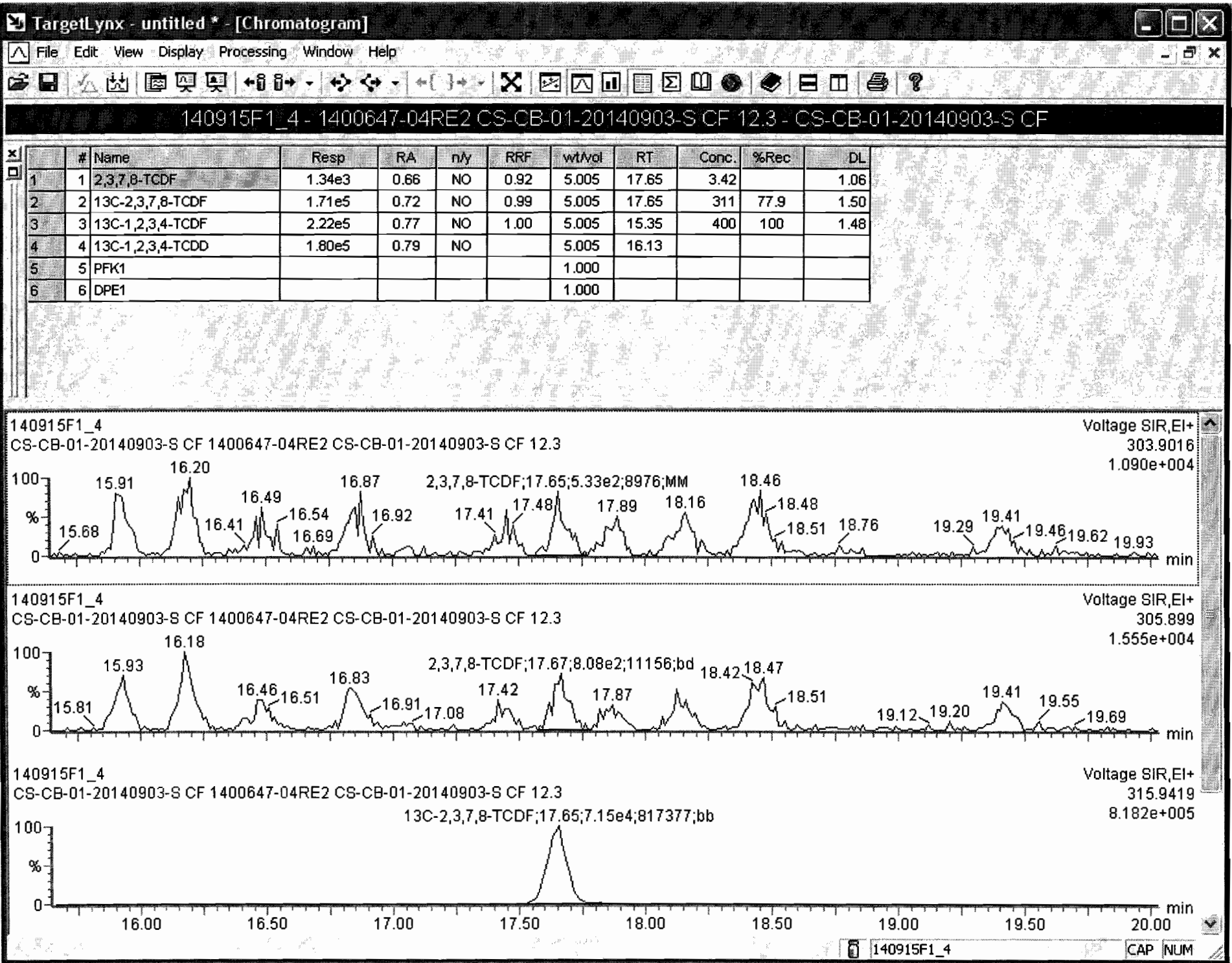
13C-2,3,7,8-TCDF



13C-2,3,7,8-TCDF





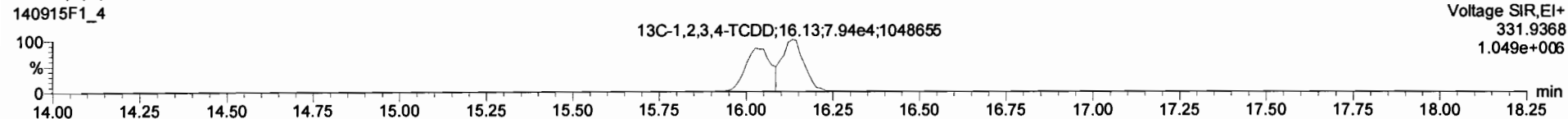


Dataset: Untitled

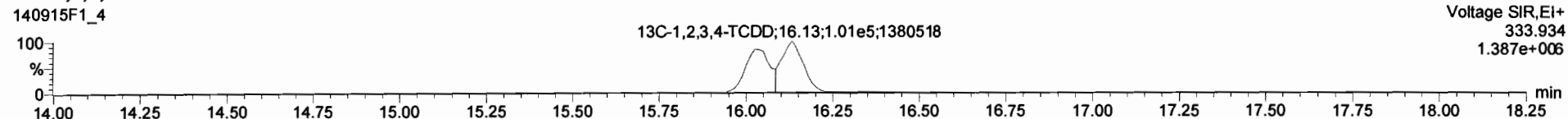
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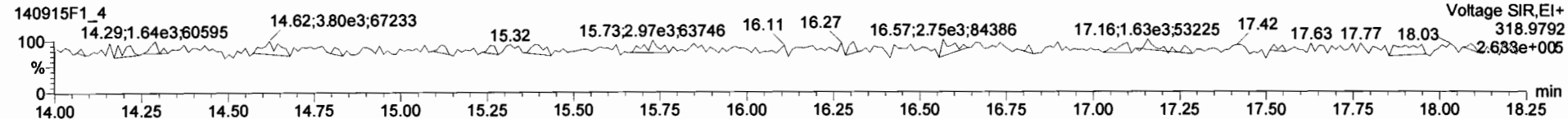
**13C-1,2,3,4-TCDD**



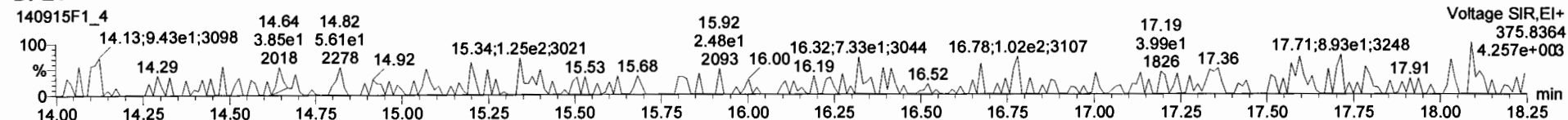
**13C-1,2,3,4-TCDD**



**PFK1**



**DPE1**



**SAMPLE DATA**  
**EPA Method 1668C**

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n NotF $\eta$	1.25	*		4720	2.5	1.45	*	0.996-1.006	
Mono	PCB-2	*	*	n NotF $\eta$	1.18	*		4720	2.5	1.66	*	0.983-0.993	
Mono	PCB-3	*	*	n NotF $\eta$	1.22	*		4720	2.5	1.61	*	0.996-1.006	
Di	PCB-4/10	*	*	n NotF $\eta$	1.55	*		24000	2.5	7.35	*	0.998-1.008	
Di	PCB-7/9	*	*	n NotF $\eta$	1.27	*		24000	2.5	5.85	*	0.865-0.873	
Di	PCB-6	*	*	n NotF $\eta$	1.26	*		24000	2.5	5.88	*	0.890-0.899	
Di	PCB-5/8	*	*	n NotF $\eta$	1.23	*		24000	2.5	6.01	*	0.906-0.916	
Di	PCB-14	*	*	n NotF $\eta$	1.23	*		24000	2.5	5.56	*	0.949-0.959	
Di	PCB-11	8.32e+05	1.36	y 25:08	1.16	8.42		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	*	*	n NotF $\eta$	1.10	*		24000	2.5	6.23	*	1.010-1.020	
Di	PCB-15	*	*	n NotF $\eta$	1.21	*		24000	2.5	5.67	*	1.024-1.034	
Tri	PCB-19	*	*	n NotF $\eta$	1.30	*		2170	2.5	0.780	*	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.83	*		2170	2.5	0.552	*	1.032-1.042	
Tri	PCB-18	1.01e+05	1.12	y 25:44	0.86	1.92		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	4.26e+04	1.15	y 25:54	0.90	0.773		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	*	*	n NotF $\eta$	1.18	*		2170	2.5	0.607	*	0.976-0.986	
Tri	PCB-16/32	1.13e+05	0.90	y 26:59	1.03	1.80		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.26	*		3170	2.5	0.834	*	0.956-0.966	
Tri	PCB-23	*	*	n NotF $\eta$	1.31	*		3170	2.5	0.803	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF $\eta$	1.33	*		3170	2.5	0.792	*	0.967-0.977	
Tri	PCB-26	*	*	n NotF $\eta$	1.29	*		3170	2.5	0.815	*	0.974-0.984	
Tri	PCB-25	*	*	n NotF $\eta$	1.34	*		3170	2.5	0.783	*	0.980-0.990	
Tri	PCB-31	1.50e+05	1.12	y 28:50	1.42	1.66		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	9.73e+04	1.25	n 28:56	1.38	1.11	R	*	2.5	*	1.001	0.996-1.006	
Tri	PCB-20/21/33	1.47e+05	1.08	y 29:33	1.31	1.77		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	*	*	n NotF $\eta$	1.32	*		3170	2.5	0.796	*	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.38	*		3170	2.5	0.862	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF $\eta$	1.42	*		3170	2.5	0.836	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF $\eta$	1.35	*		3170	2.5	0.876	*	0.967-0.976	
Tri	PCB-35	*	*	n NotF $\eta$	1.38	*		3170	2.5	0.862	*	0.982-0.992	
Tri	PCB-37	*	*	n NotF $\eta$	1.39	*		3170	2.5	0.853	*	0.996-1.006	
Tetra	PCB-54	*	*	n NotF $\eta$	1.20	*		3790	2.5	1.13	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.97	*		3790	2.5	1.40	*	1.037-1.047	
Tetra	PCB-53	*	*	n NotF $\eta$	1.19	*		3790	2.5	1.52	*	0.941-0.951	
Tetra	PCB-51	*	*	n NotF $\eta$	1.15	*		3790	2.5	1.56	*	0.952-0.962	
Tetra	PCB-45	*	*	n NotF $\eta$	0.97	*		3790	2.5	1.87	*	0.966-0.976	
Tetra	PCB-46	*	*	n NotF $\eta$	0.95	*		3790	2.5	1.90	*	0.982-0.992	

Integrations by:

Analyst: ms

Date: 9/11/14

Reviewed by: MS

Date: 9/17/14

Client ID: Method Blank  
Lab ID: B4I0025-BLK1

Filename: 140910E2  
GC Column ID: ZB-1

S:4 Acq:11-SEP-14 03:13:30  
ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	5.84e+04	1.08	n 31:19	1.28	1.12	R	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.37	*		3790	2.5	1.31	*	1.000-1.010	
Tetra	PCB-43/49	*	*	n NotF $\eta$	1.11	*		3790	2.5	1.62	*	1.005-1.015	
Tetra	PCB-47	*	*	n NotF $\eta$	1.13	*		3790	2.5	1.63	*	0.996-1.006	
Tetra	PCB-48/75	*	*	n NotF $\eta$	1.30	*		3790	2.5	1.41	*	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.33	*		3790	2.5	1.38	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF $\eta$	1.29	*		3790	2.5	1.43	*	1.011-1.021	
Tetra	PCB-44	*	*	n NotF $\eta$	0.94	*		3790	2.5	1.96	*	1.020-1.030	
Tetra	PCB-42/59	*	*	n NotF $\eta$	1.22	*		3790	2.5	1.51	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	*	n NotF $\eta$	1.31	*		3790	2.5	1.40	*	1.046-1.056	
Tetra	PCB-68	*	*	n NotF $\eta$	1.49	*		3790	2.5	1.24	*	1.054-1.064	
Tetra	PCB-40	*	*	n NotF $\eta$	0.82	*		3790	2.5	2.25	*	1.061-1.071	
Tetra	PCB-57	*	*	n NotF $\eta$	1.11	*		3790	2.5	1.57	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF $\eta$	1.07	*		3790	2.5	1.63	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF $\eta$	1.10	*		3790	2.5	1.58	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF $\eta$	1.12	*		3790	2.5	1.56	*	0.982-0.992	
Tetra	PCB-74	*	*	n NotF $\eta$	1.20	*		3790	2.5	1.45	*	0.990-1.000	
Tetra	PCB-61/70	5.76e+04	0.58	n 35:17	1.08	1.19	R	*	2.5	*	1.000	0.994-1.004	
Tetra	PCB-76/66	*	*	n NotF $\eta$	1.14	*		3790	2.5	1.54	*	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.28	*		3790	2.5	1.37	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotF $\eta$	1.11	*		3790	2.5	1.57	*	1.005-1.015	
Tetra	PCB-56/60	*	*	n NotF $\eta$	1.09	*		3790	2.5	1.61	*	1.018-1.028	
Tetra	PCB-79	*	*	n NotF $\eta$	1.12	*		3790	2.5	1.55	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.24	*		3790	2.5	1.65	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotF $\eta$	1.38	*		3790	2.5	1.48	*	0.995-1.005	
Tetra	PCB-77	*	*	n NotF $\eta$	1.21	*		3790	2.5	1.66	*	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.26	*		1200	2.5	1.04	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF $\eta$	1.09	*		1200	2.5	1.20	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF $\eta$	0.93	*		1200	2.5	1.40	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	1.00	*		1200	2.5	1.30	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.11	*		1200	2.5	2.18	*	0.981-0.991	
Penta	PCB-95/98/102	*	*	n NotF $\eta$	1.21	*		1200	2.5	1.99	*	0.994-1.004	
Penta	PCB-93	*	*	n NotF $\eta$	1.13	*		1200	2.5	2.13	*	0.998-1.008	
Penta	PCB-88/91	*	*	n NotF $\eta$	1.02	*		1200	2.5	2.36	*	1.006-1.016	
Penta	PCB-121	*	*	n NotF $\eta$	1.90	*		1200	2.5	1.27	*	1.009-1.019	
Penta	PCB-84/92	*	*	n NotF $\eta$	1.05	*		1200	2.5	2.19	*	0.986-0.996	
Penta	PCB-89	*	*	n NotF $\eta$	1.02	*		1200	2.5	2.26	*	0.991-1.001	

Analyst: m

Date: 9/11/14

Client ID: Method Blank  
Lab ID: B4I0025-BLK1

Filename: 140910E2 S:4 Acq:11-SEP-14 03:13:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	*	n	NotF $\eta$	1.19	*	1200	2.5	1.93	*	0.996-1.006	
Penta	PCB-113	*	*	n	NotF $\eta$	1.35	*	1200	2.5	1.70	*	1.002-1.012	
Penta	PCB-99	*	*	n	NotF $\eta$	1.29	*	1200	2.5	1.78	*	1.005-1.015	
Penta	PCB-119	*	*	n	NotF $\eta$	1.72	*	1200	2.5	1.50	*	0.982-0.992	
Penta	PCB-108/112	*	*	n	NotF $\eta$	1.29	*	1200	2.5	2.01	*	0.986-0.996	
Penta	PCB-83	*	*	n	NotF $\eta$	1.52	*	1200	2.5	1.70	*	0.991-1.001	
Penta	PCB-97	*	*	n	NotF $\eta$	1.25	*	1200	2.5	2.07	*	0.996-1.006	
Penta	PCB-86	*	*	n	NotF $\eta$	1.02	*	1200	2.5	2.53	*	1.000-1.010	
Penta	PCB-87/117/125	*	*	n	NotF $\eta$	1.56	*	1200	2.5	1.66	*	1.002-1.012	
Penta	PCB-111/115	*	*	n	NotF $\eta$	1.75	*	1200	2.5	1.48	*	1.007-1.017	
Penta	PCB-85/116	*	*	n	NotF $\eta$	1.30	*	1200	2.5	1.99	*	1.010-1.020	
Penta	PCB-120	*	*	n	NotF $\eta$	1.78	*	1200	2.5	1.45	*	1.016-1.026	
Penta	PCB-110	*	*	n	NotF $\eta$	1.68	*	1200	2.5	1.54	*	1.020-1.030	
Penta	PCB-82	*	*	n	NotF $\eta$	0.74	*	1200	2.5	2.85	*	0.972-0.982	
Penta	PCB-124	*	*	n	NotF $\eta$	1.32	*	1200	2.5	1.59	*	0.988-0.998	
Penta	PCB-107/109	*	*	n	NotF $\eta$	1.22	*	1200	2.5	1.73	*	0.991-1.001	
Penta	PCB-123	*	*	n	NotF $\eta$	1.22	*	1200	2.5	1.73	*	0.995-1.005	
Penta	PCB-106/118	*	*	n	NotF $\eta$	1.22	*	1200	2.5	1.66	*	0.996-1.006	
Penta	PCB-114	*	*	n	NotF $\eta$	1.36	*	2450	2.5	1.42	*	0.995-1.005	
Penta	PCB-122	*	*	n	NotF $\eta$	1.24	*	2450	2.5	1.55	*	0.999-1.009	
Penta	PCB-105	*	*	n	NotF $\eta$	1.28	*	2450	2.5	1.38	*	0.995-1.005	
Penta	PCB-127	*	*	n	NotF $\eta$	1.14	*	2450	2.5	1.45	*	0.995-1.005	
Penta	PCB-126	*	*	n	NotF $\eta$	1.28	*	2450	2.5	1.55	*	0.995-1.005	
Hexa	PCB-155	*	*	n	NotF $\eta$	1.14	*	850	2.5	1.86	*	0.966-1.006	
Hexa	PCB-150	*	*	n	NotF $\eta$	1.06	*	850	2.5	1.98	*	1.030-1.040	
Hexa	PCB-152	*	*	n	NotF $\eta$	1.10	*	850	2.5	1.92	*	1.043-1.053	
Hexa	PCB-145	*	*	n	NotF $\eta$	1.09	*	850	2.5	1.93	*	1.055-1.065	
Hexa	PCB-136	*	*	n	NotF $\eta$	1.08	*	850	2.5	1.94	*	1.064-1.074	
Hexa	PCB-148	*	*	n	NotF $\eta$	0.74	*	850	2.5	2.84	*	1.066-1.076	
Hexa	PCB-154	*	*	n	NotF $\eta$	0.88	*	850	2.5	2.38	*	1.079-1.089	
Hexa	PCB-151	*	*	n	NotF $\eta$	0.81	*	850	2.5	2.61	*	1.097-1.107	
Hexa	PCB-135	*	*	n	NotF $\eta$	0.78	*	850	2.5	2.70	*	1.101-1.113	
Hexa	PCB-144	*	*	n	NotF $\eta$	0.82	*	850	2.5	2.57	*	1.105-1.116	
Hexa	PCB-147	*	*	n	NotF $\eta$	0.83	*	850	2.5	2.54	*	1.011-1.120	
Hexa	PCB-139/149	*	*	n	NotF $\eta$	0.84	*	850	2.5	2.50	*	1.115-1.127	
Hexa	PCB-140	*	*	n	NotF $\eta$	0.79	*	850	2.5	2.68	*	1.120-1.132	
Hexa	PCB-134/143	*	*	n	NotF $\eta$	0.93	*	1880	2.5	1.87	*	0.970-0.980	

Analyst: MS

Date: 9/11/14

Client ID: Method Blank  
Lab ID: B4I0025-BLK1

Filename: 140910E2  
GC Column ID: ZB-1

S:4 Acq:11-SEP-14 03:13:30  
Ical: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n	NotF $\eta$	0.95	*	1880	2.5	1.84	*	0.977-0.987	
Hexa	PCB-131	*	*	n	NotF $\eta$	0.91	*	1880	2.5	1.90	*	0.981-0.991	
Hexa	PCB-146/165	*	*	n	NotF $\eta$	1.16	*	1880	2.5	1.50	*	0.986-0.996	
Hexa	PCB-132/161	*	*	n	NotF $\eta$	1.11	*	1880	2.5	1.56	*	0.992-1.002	
Hexa	PCB-153	5.49e+04	1.05	n	42:57	1.18	1.63	R	* 2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n	NotF $\eta$	1.37	*	1880	2.5	1.27	*	1.000-1.010	
Hexa	PCB-141	*	*	n	NotF $\eta$	0.97	*	1880	2.5	1.85	*	0.996-1.005	
Hexa	PCB-137	*	*	n	NotF $\eta$	1.07	*	1880	2.5	1.68	*	1.004-1.014	
Hexa	PCB-130	*	*	n	NotF $\eta$	0.85	*	1880	2.5	2.12	*	1.007-1.017	
Hexa	PCB-138/163/164	1.07e+05	1.22	y	44:34	1.23	3.34	*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	*	*	n	NotF $\eta$	1.29	*	1880	2.5	1.52	*	1.001-1.011	
Hexa	PCB-129	*	*	n	NotF $\eta$	0.92	*	1880	2.5	2.11	*	1.007-1.017	
Hexa	PCB-166	*	*	n	NotF $\eta$	1.12	*	1880	2.5	1.51	*	0.988-0.998	
Hexa	PCB-159	*	*	n	NotF $\eta$	1.16	*	1880	2.5	1.44	*	0.995-1.005	
Hexa	PCB-128/162	*	*	n	NotF $\eta$	1.02	*	1880	2.5	1.65	*	1.002-1.012	
Hexa	PCB-167	*	*	n	NotF $\eta$	1.06	*	1880	2.5	1.55	*	0.995-1.005	
Hexa	PCB-156	*	*	n	NotF $\eta$	1.18	*	1880	2.5	1.59	*	0.995-1.005	
Hexa	PCB-157	*	*	n	NotF $\eta$	1.08	*	1880	2.5	1.71	*	0.995-1.005	
Hexa	PCB-169	*	*	n	NotF $\eta$	1.11	*	1880	2.5	1.80	*	0.995-1.005	
Hepta	PCB-188	*	*	n	NotF $\eta$	1.40	*	1770	2.5	1.23	*	0.995-1.005	
Hepta	PCB-184	*	*	n	NotF $\eta$	1.24	*	1770	2.5	1.40	*	1.006-1.016	
Hepta	PCB-179	*	*	n	NotF $\eta$	1.30	*	1770	2.5	1.33	*	1.024-1.034	
Hepta	PCB-176	*	*	n	NotF $\eta$	1.36	*	1770	2.5	1.27	*	1.035-1.045	
Hepta	PCB-186	*	*	n	NotF $\eta$	1.28	*	1770	2.5	1.36	*	1.049-1.059	
Hepta	PCB-178	*	*	n	NotF $\eta$	0.94	*	1770	2.5	1.85	*	1.061-1.071	
Hepta	PCB-175	*	*	n	NotF $\eta$	0.97	*	1770	2.5	1.79	*	1.069-1.079	
Hepta	PCB-182/187	*	*	n	NotF $\eta$	1.01	*	1770	2.5	1.71	*	1.073-1.083	
Hepta	PCB-183	*	*	n	NotF $\eta$	1.08	*	1770	2.5	1.60	*	1.080-1.090	
Hepta	PCB-185	*	*	n	NotF $\eta$	1.34	*	1770	2.5	2.22	*	0.951-0.961	
Hepta	PCB-174	*	*	n	NotF $\eta$	1.34	*	1770	2.5	2.23	*	0.958-0.968	
Hepta	PCB-181	*	*	n	NotF $\eta$	1.36	*	1770	2.5	2.19	*	0.961-0.971	
Hepta	PCB-177	*	*	n	NotF $\eta$	1.24	*	1770	2.5	2.40	*	0.964-0.974	
Hepta	PCB-171	*	*	n	NotF $\eta$	1.31	*	1770	2.5	2.27	*	0.970-0.980	
Hepta	PCB-173	*	*	n	NotF $\eta$	1.16	*	1770	2.5	2.57	*	0.979-0.989	
Hepta	PCB-172	*	*	n	NotF $\eta$	1.22	*	1770	2.5	2.44	*	0.988-0.998	
Hepta	PCB-192	*	*	n	NotF $\eta$	1.53	*	1770	2.5	1.95	*	0.991-1.001	
Hepta	PCB-180	3.57e+04	1.13	y	49:04	1.43	2.44	*	2.5	*	1.000	0.995-1.005	

Analyst: mi

Date: 9/11/14

Client ID: Method Blank  
Lab ID: B4I0025-BLK1

Filename: 140910E2  
GC Column ID: ZB-1

S:4 Acq:11-SEP-14 03:13:30  
Ical: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n NotF <sub>η</sub>	1.65	*		1770	2.5	1.80	*	0.999-1.009	
Hepta	PCB-191	*	*	n NotF <sub>η</sub>	1.67	*		1770	2.5	1.78	*	1.004-1.014	
Hepta	PCB-170	*	*	n NotF <sub>η</sub>	1.50	*		1770	2.5	2.37	*	0.995-1.005	
Hepta	PCB-190	*	*	n NotF <sub>η</sub>	2.02	*		1770	2.5	1.76	*	0.998-1.008	
Hepta	PCB-189	*	*	n NotF <sub>η</sub>	1.54	*		1770	2.5	1.73	*	0.995-1.005	
Octa	PCB-202	*	*	n NotF <sub>η</sub>	1.04	*		615	2.5	1.65	*	0.995-1.005	
Octa	PCB-201	*	*	n NotF <sub>η</sub>	1.10	*		615	2.5	1.55	*	1.006-1.016	
Octa	PCB-204	*	*	n NotF <sub>η</sub>	0.99	*		615	2.5	1.72	*	1.009-1.019	
Octa	PCB-197	*	*	n NotF <sub>η</sub>	1.07	*		615	2.5	1.60	*	1.015-1.025	
Octa	PCB-200	*	*	n NotF <sub>η</sub>	1.02	*		615	2.5	1.68	*	1.032-1.044	
Octa	PCB-198	*	*	n NotF <sub>η</sub>	0.74	*		615	2.5	2.31	*	1.058-1.068	
Octa	PCB-199	*	*	n NotF <sub>η</sub>	0.73	*		615	2.5	2.35	*	1.060-1.070	
Octa	PCB-196/203	*	*	n NotF <sub>η</sub>	0.77	*		615	2.5	2.22	*	1.066-1.076	
Octa	PCB-195	*	*	n NotF <sub>η</sub>	1.20	*		1890	2.5	1.21	*	0.979-0.989	
Octa	PCB-194	*	*	n NotF <sub>η</sub>	1.25	*		1890	2.5	1.16	*	0.995-1.005	
Octa	PCB-205	*	*	n NotF <sub>η</sub>	1.41	*		1890	2.5	1.03	*	1.001-1.011	
Nona	PCB-208	*	*	n NotF <sub>η</sub>	0.96	*		1700	2.5	1.18	*	0.995-1.005	
Nona	PCB-207	*	*	n NotF <sub>η</sub>	0.92	*		1700	2.5	1.24	*	1.001-1.011	
Nona	PCB-206	*	*	n NotF <sub>η</sub>	1.03	*		1700	2.5	2.08	*	0.995-1.005	
Deca	PCB-209	*	*	n NotF <sub>η</sub>	1.18	*		1810	1.0	1.26	*	0.995-1.005	

Analyst: ms

Date: 9/11/14



Client ID: Method Blank  
Lab ID: B4I0025-BLK1

Filename: 140910E2 S:4 Acq:11-SEP-14 03:13:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000  
ConCal: ST140910E2-1  
EndCAL: NA

Page 3 of

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.22	*	
Total Di-PCB	8.32e+05	1.36 y	25:08	1.21	8.41813	
Total Tri-PCB	2.57e+05	1.12 y	25:44	1.16	4.49428	
Total Tri-PCB	2.98e+05	1.12 y	28:50	1.35	3.42699	Sum:7.92126
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	1.07e+05	1.22 y	44:34	1.08	3.33608	Sum:3.33608
Total Hepta-PCB	3.57e+04	1.13 y	49:04	1.27	2.43936	
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: ~~27.16~~ 290000

22.1

Integrations

by  
Analyst: mi

Date: 9/11/14

Client ID: Method Blank  
Lab ID: B4I0025-BLK1

Filename: 140910E2 S:4 Acq:11-SEP-14 03:13:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140910E2-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.72e+08	3.29 y	0.89	16:12	0.628	0.622-0.628		1860	92.9
13C-PCB-3	1.70e+08	3.33 y	0.93	18:45	0.726	0.721-0.729		1760	87.8
13C-PCB-4	9.74e+07	1.62 y	0.55	20:03	0.777	0.772-0.780		1710	85.3
13C-PCB-9	1.52e+08	1.61 y	0.83	21:48	0.844	0.840-0.848		1760	88.1
13C-PCB-11	1.71e+08	1.60 y	0.94	25:07	0.973	0.968-0.978		1750	87.4
13C-PCB-32	1.22e+08	1.12 y	0.81	26:59	1.045	1.041-1.051		1440	72.1
13C-PCB-19	8.51e+07	1.10 y	0.53	24:07	0.934	0.929-0.939		1530	76.6
13C-PCB-28	1.27e+08	1.04 y	0.89	28:55	1.003	0.999-1.009		1600	80.1
13C-PCB-52	8.15e+07	0.79 y	0.71	31:18	0.857	0.853-0.861		2230	111
13C-PCB-54	1.11e+08	0.81 y	0.85	27:49	0.762	0.758-0.766		2530	126
13C-PCB-37	1.22e+08	1.04 y	0.83	32:45	1.136	1.131-1.143		1640	82.2
13C-PCB-47	8.35e+07	0.79 y	0.74	31:48	0.871	0.867-0.875		2170	108
13C-PCB-81	7.84e+07	0.80 y	0.84	38:47	1.062	1.057-1.067		1810	90.5
13C-PCB-70	8.95e+07	0.80 y	0.94	35:17	0.966	0.961-0.971		1830	91.7
13C-PCB-80	9.09e+07	0.82 y	0.96	35:41	0.977	0.972-0.982		1830	91.3
13C-PCB-104	5.39e+07	1.65 y	1.00	32:27	0.833	0.829-0.837		2520	126
13C-PCB-101	3.19e+07	1.66 y	0.79	37:15	0.956	0.951-0.961		1890	94.3
13C-PCB-95	3.02e+07	1.65 y	0.74	35:35	0.913	0.908-0.918		1880	94.2
13C-PCB-77	8.07e+07	0.82 y	0.89	39:23	1.079	1.073-1.083		1750	87.3
13C-PCB-114	8.09e+07	1.65 y	1.21	41:56	0.910	0.905-0.915		2680	134
13C-PCB-118	3.58e+07	1.66 y	0.98	41:17	1.059	1.054-1.064		1690	84.3
13C-PCB-123	3.51e+07	1.64 y	0.95	41:05	1.054	1.049-1.059		1710	85.7
13C-PCB-97	2.78e+07	1.68 y	0.69	38:33	0.989	0.984-0.994		1870	93.6
13C-PCB-127	9.22e+07	1.65 y	1.34	43:07	0.936	0.931-0.941		2740	137
13C-PCB-105	8.37e+07	1.61 y	1.24	42:47	0.928	0.924-0.934		2700	135
13C-PCB-141	5.61e+07	1.31 y	1.07	43:41	0.948	0.943-0.953		2090	104
13C-PCB-153	5.71e+07	1.31 y	1.11	42:56	0.932	0.927-0.937		2050	102
13C-PCB-155	2.15e+07	1.33 y	0.83	36:47	0.944	0.939-0.949		1200	60.0
13C-PCB-126	7.90e+07	1.62 y	1.16	45:01	0.977	0.972-0.982		2710	136
13C-PCB-167	6.32e+07	1.29 y	1.32	46:28	1.008	1.004-1.014		1910	95.4
13C-PCB-156	5.57e+07	1.31 y	1.24	47:46	1.037	1.032-1.042		1780	89.2
13C-PCB-138	5.24e+07	1.33 y	1.04	44:31	0.966	0.961-0.971		2000	100
13C-PCB-159	5.86e+07	1.28 y	1.20	45:48	0.994	0.989-0.999		1950	97.5
13C-PCB-157	5.75e+07	1.32 y	1.31	48:03	1.043	1.037-1.047		1750	87.5
13C-PCB-180	2.05e+07	0.49 y	0.67	49:03	1.064	1.059-1.069		1210	60.6
13C-PCB-188	3.44e+07	0.47 y	0.94	42:35	0.924	0.919-0.929		1470	73.4
13C-PCB-169	5.10e+07	1.34 y	1.22	50:11	1.089	1.082-1.092		1680	83.8
13C-PCB-170	1.56e+07	0.48 y	0.54	50:33	1.097	1.089-1.101		1170	58.3
13C-PCB-202	1.67e+07	0.94 y	0.83	47:59	1.041	1.036-1.046		801	40.1
13C-PCB-189	2.09e+07	0.45 y	0.72	52:03	1.129	1.120-1.132		1170	58.3
13C-PCB-208	4.76e+07	0.80 y	1.12	52:50	0.981	0.976-0.986		1400	69.9
13C-PCB-194	4.58e+07	0.95 y	0.81	53:34	0.995	0.990-1.000		1870	93.4
13C-PCB-206	2.99e+07	0.82 y	0.66	55:13	1.025	1.021-1.031		1500	75.0
13C-PCB-209	2.46e+07	1.26 y	0.61	56:37	1.051	1.044-1.054		1320	66.2

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.06e+08	0.80 y	1.01	37:34	1.029	1.023-1.033		2030	102
13C-PCB-178	2.43e+07	0.47 y	0.63	45:21	0.984	0.979-0.989		1540	76.9

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.06e+08	0.80 y	1.20	37:34	0.969	0.963-0.973		2250	112
13C-PCB-178	2.43e+07	0.47 y	0.94	45:21	0.925	0.920-0.930		2540	127

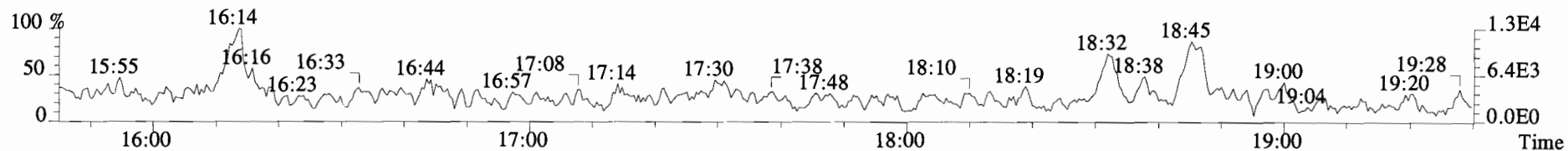
RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	2.09e+08	1.61 y	1.00	25:49	2000
13C-PCB-31	1.79e+08	1.04 y	1.00	28:49	2000
13C-PCB-60	1.03e+08	0.79 y	1.00	36:31	2000
13C-PCB-111	4.31e+07	1.69 y	1.00	38:58	2000
13C-PCB-128	5.01e+07	1.30 y	1.00	46:05	2000
13C-PCB-205	6.06e+07	0.94 y	1.00	53:51	2000

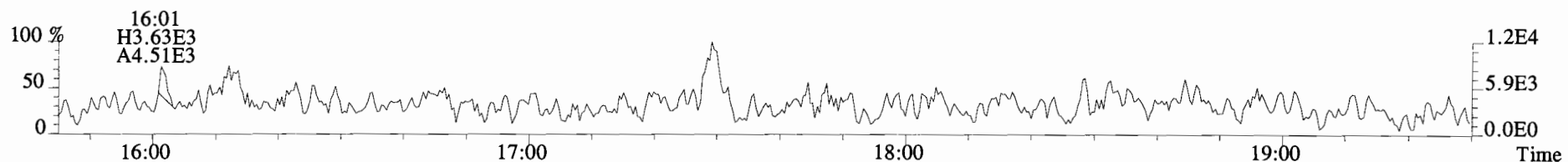
Analyst: ms

Date: 9/11/14

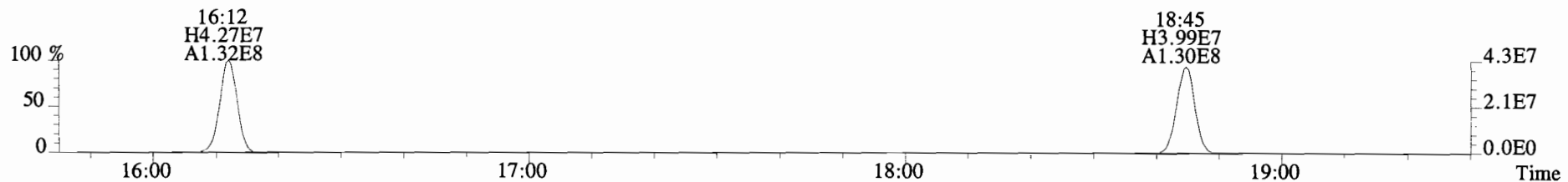
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4056.0,0.00%,F,F)



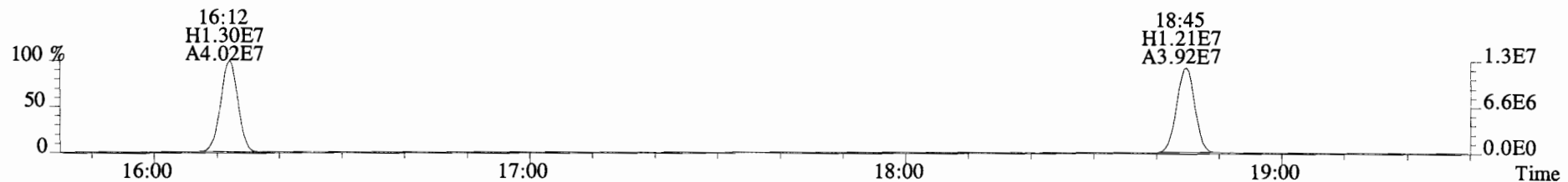
190.0363 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4724.0,0.00%,F,F)



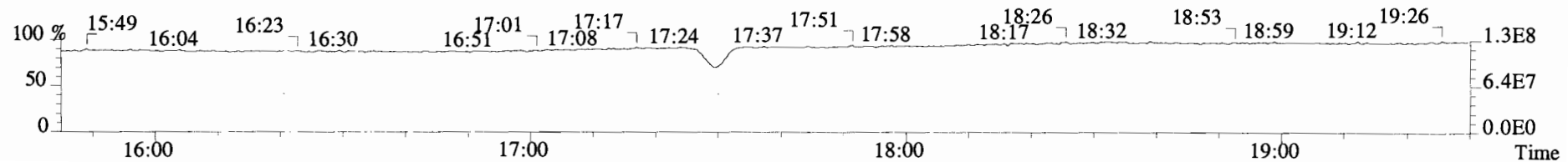
200.0795 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7488.0,0.00%,F,F)



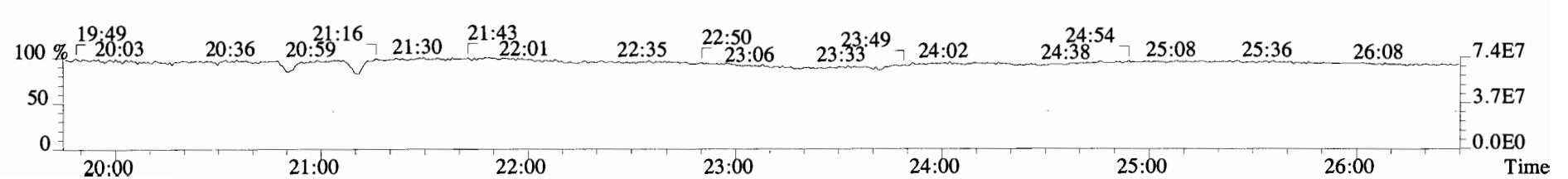
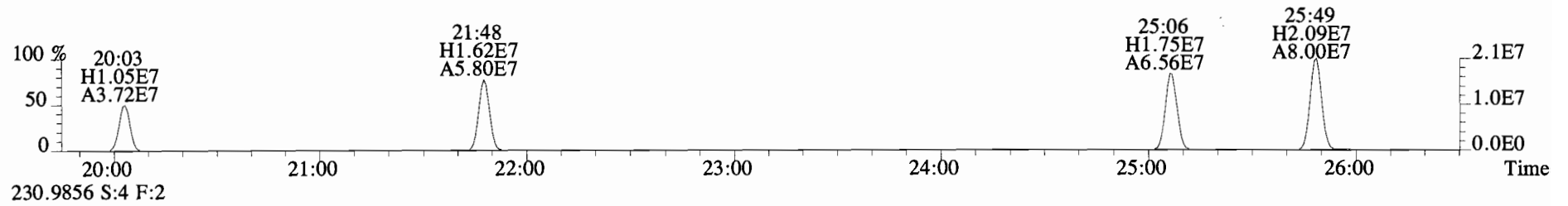
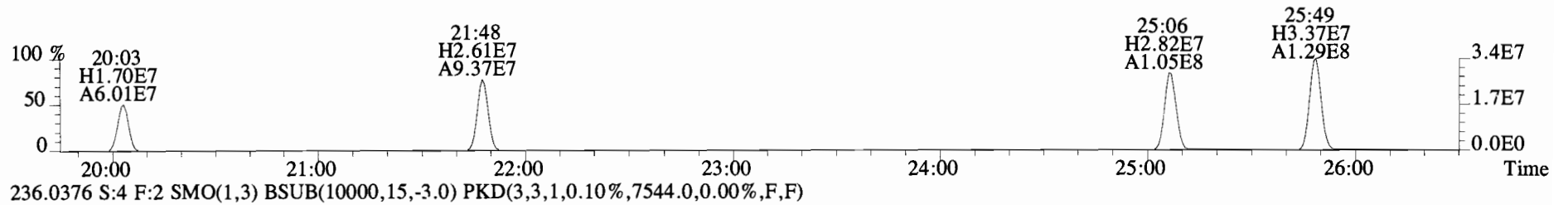
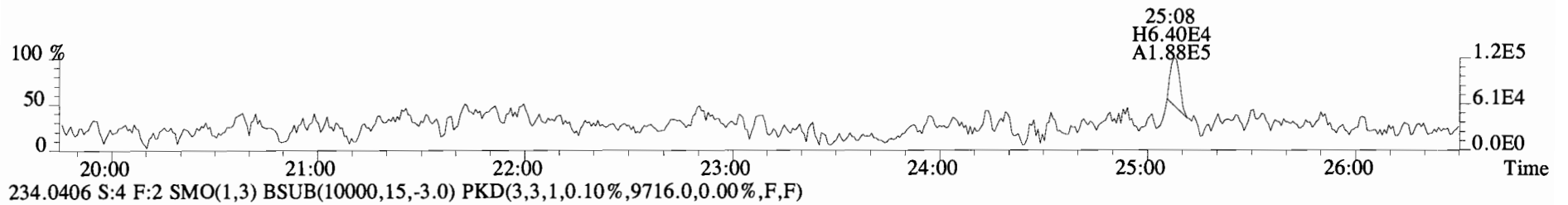
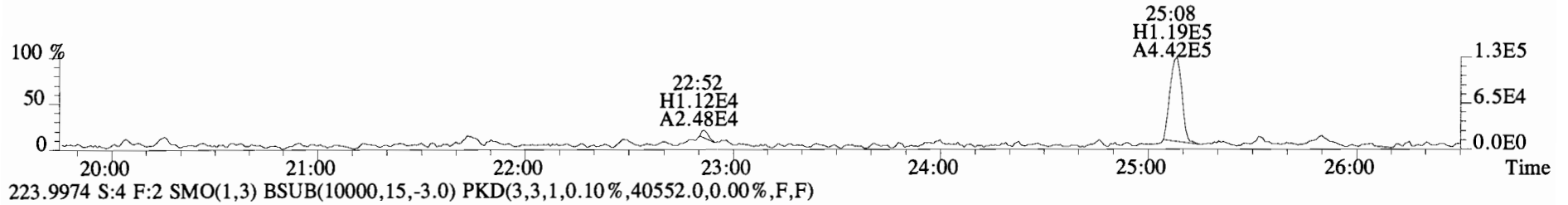
202.0766 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,84136.0,0.00%,F,F)



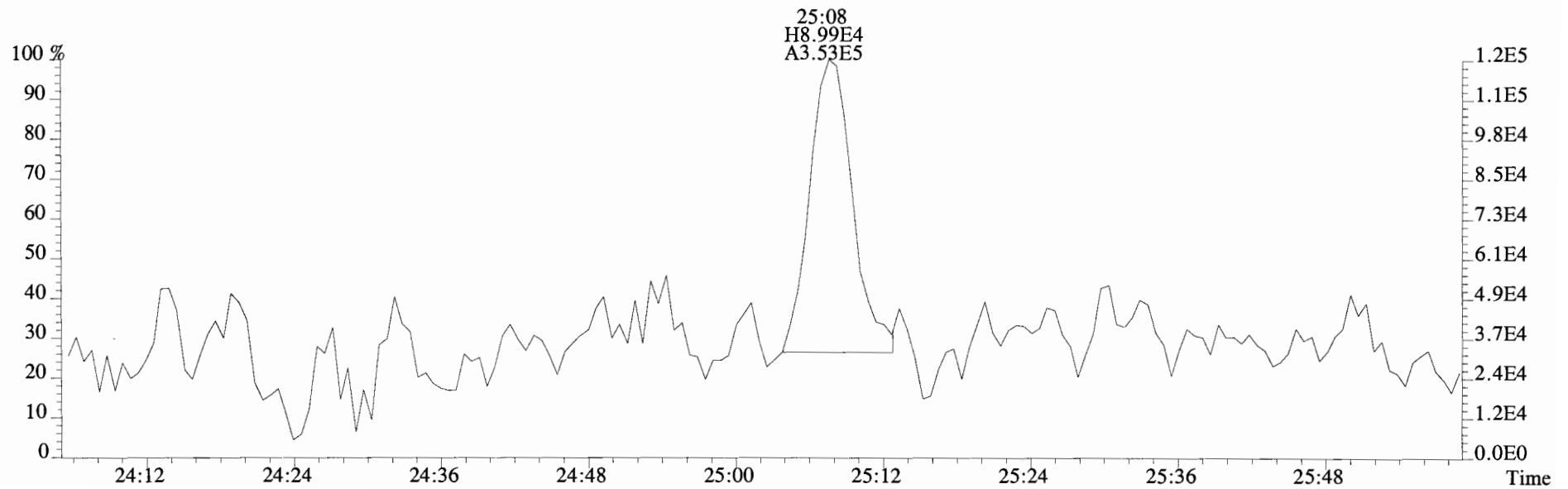
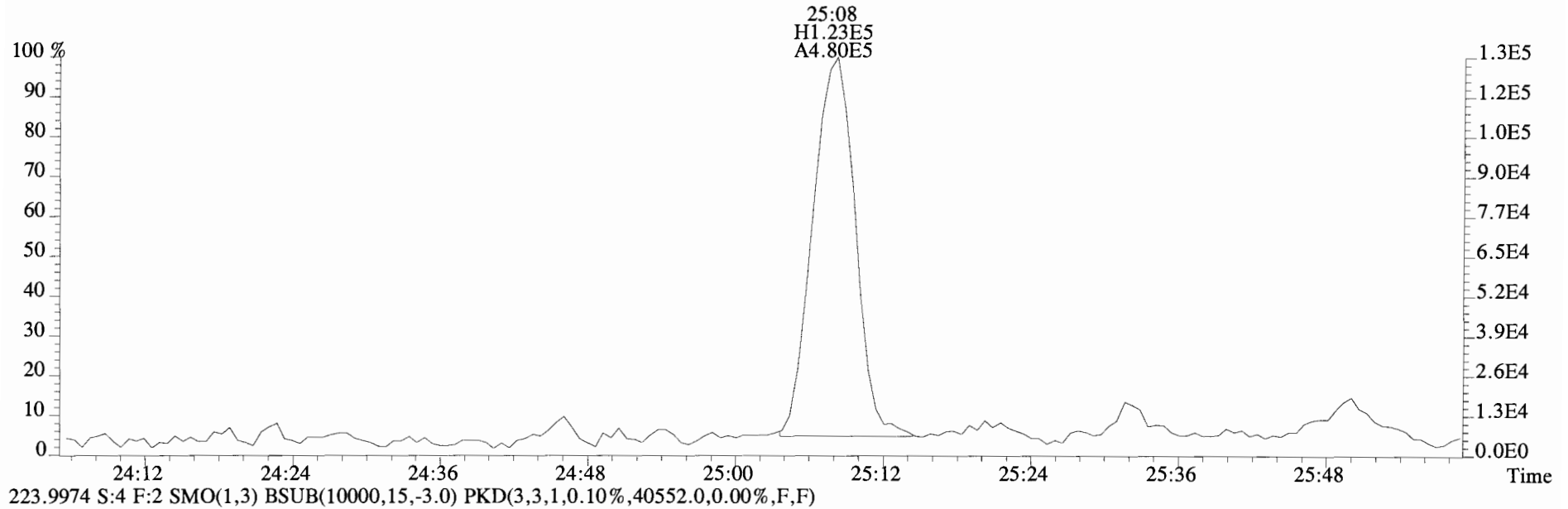
180.9880 S:4



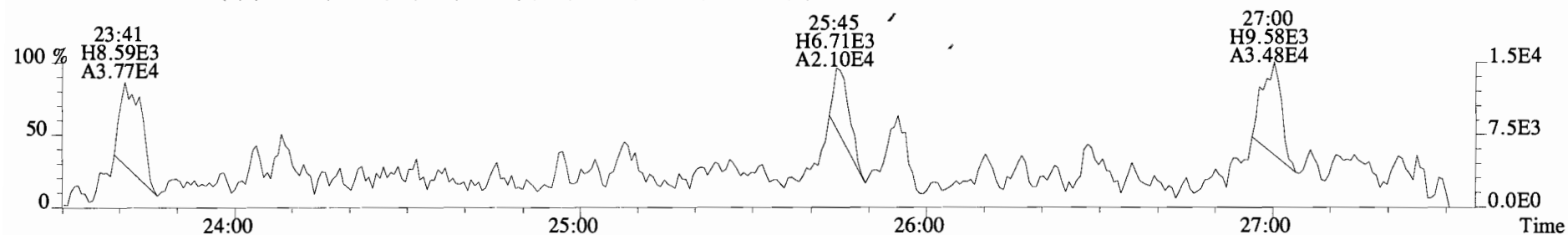
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7788.0,0.00%,F,F)



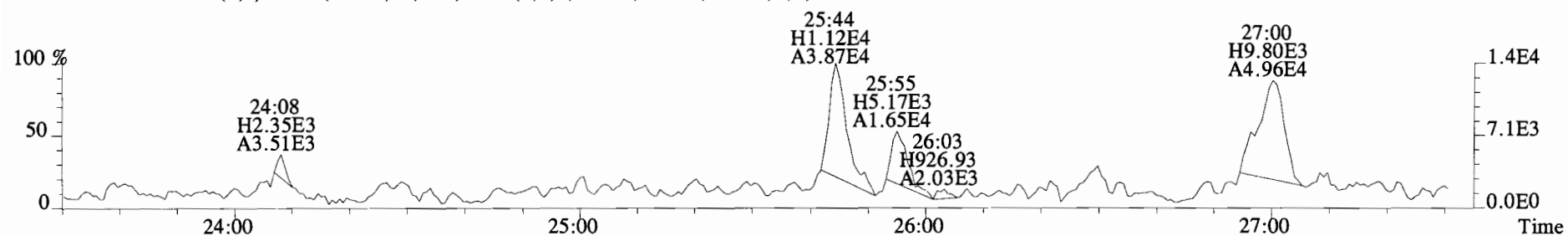
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7788.0,0.00%,F,F)



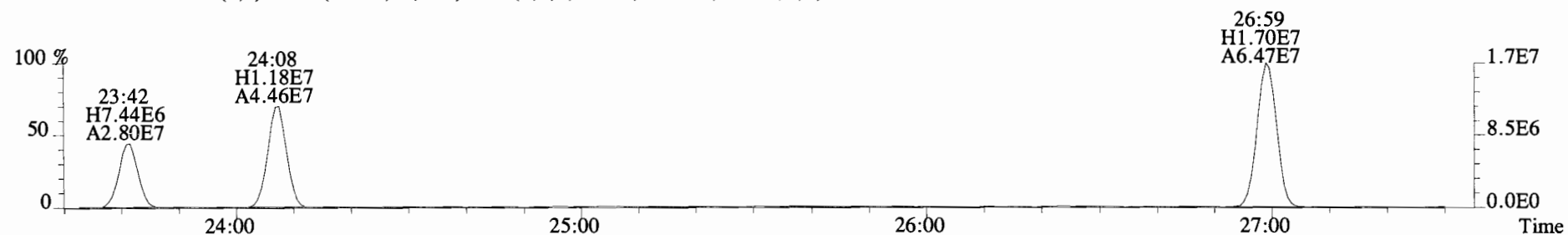
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3992.0,0.00%,F,F)



257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



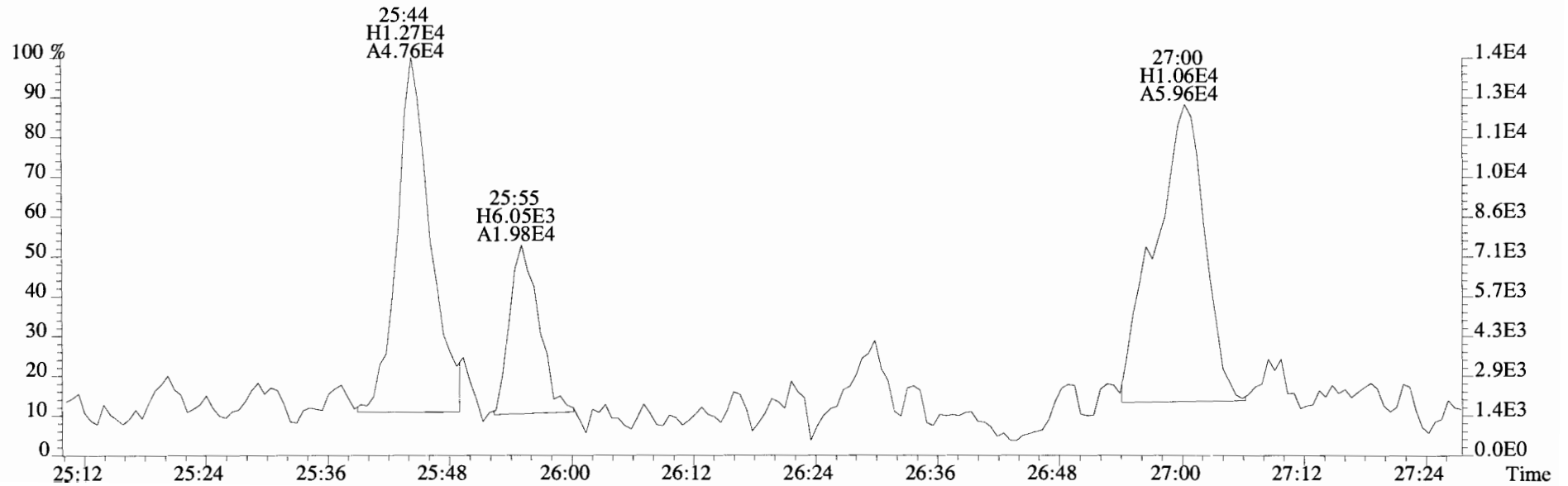
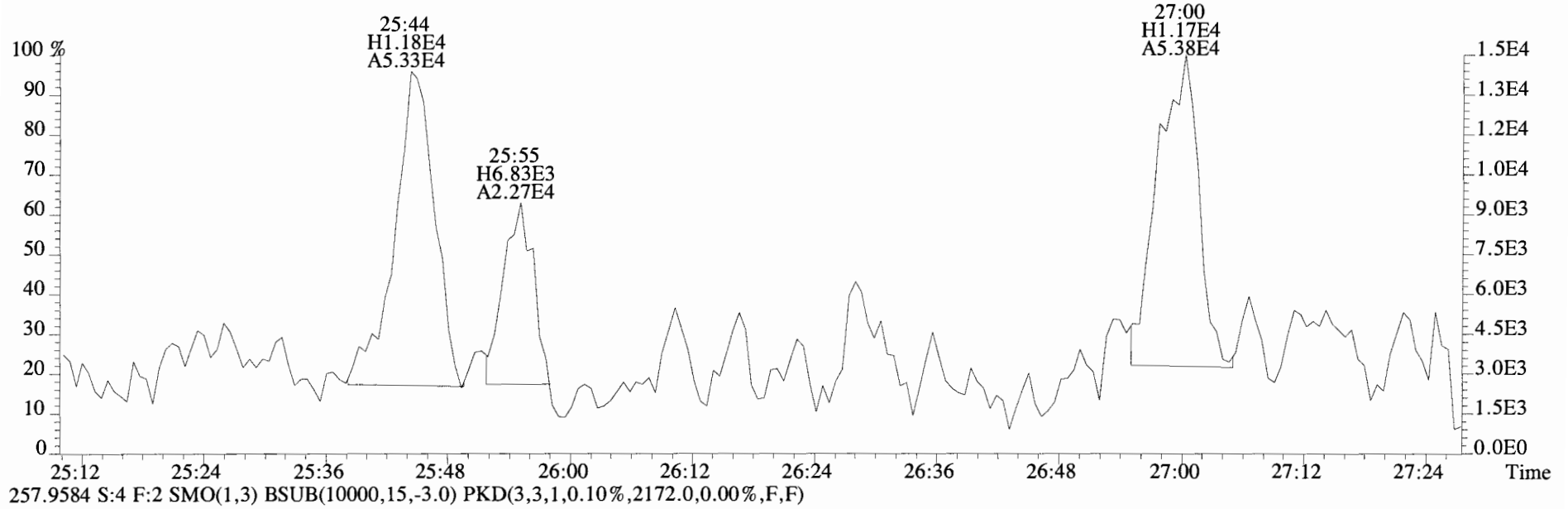
268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,63344.0,0.00%,F,F)



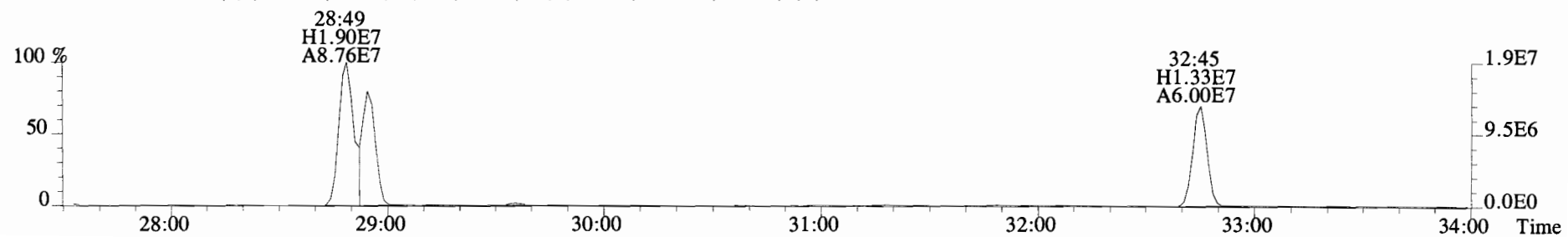
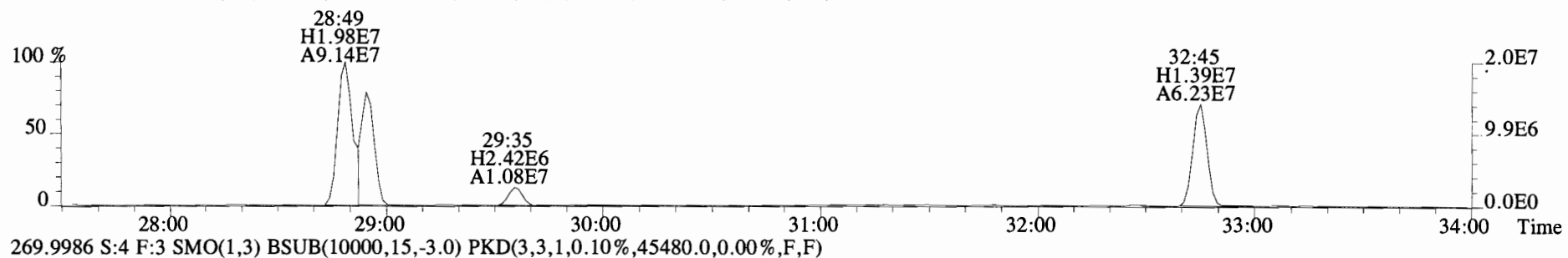
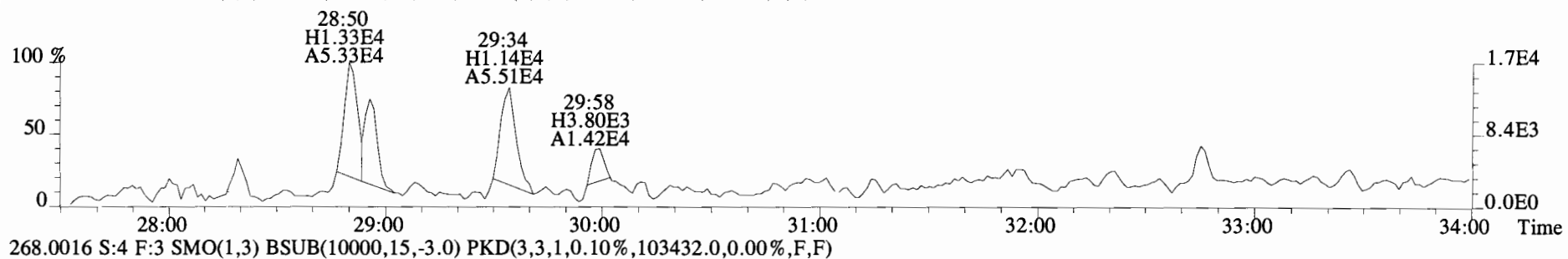
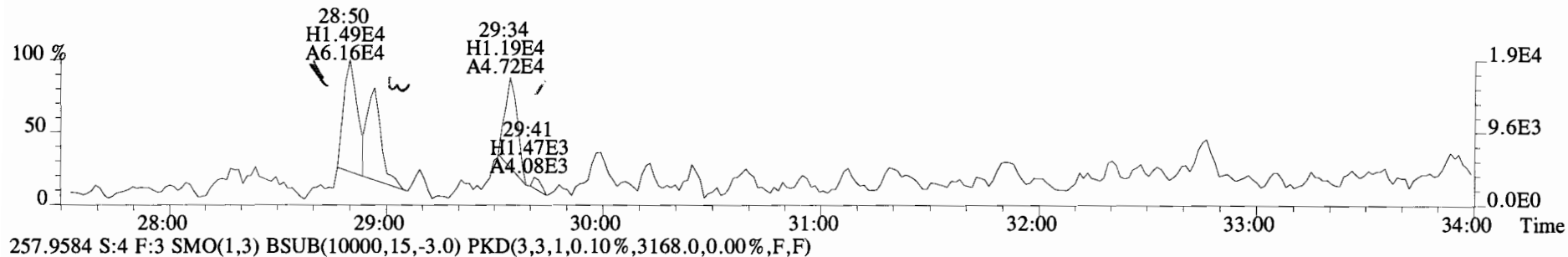
269.9986 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42216.0,0.00%,F,F)



File:140910E2 #1-758 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3992.0,0.00%,F,F)

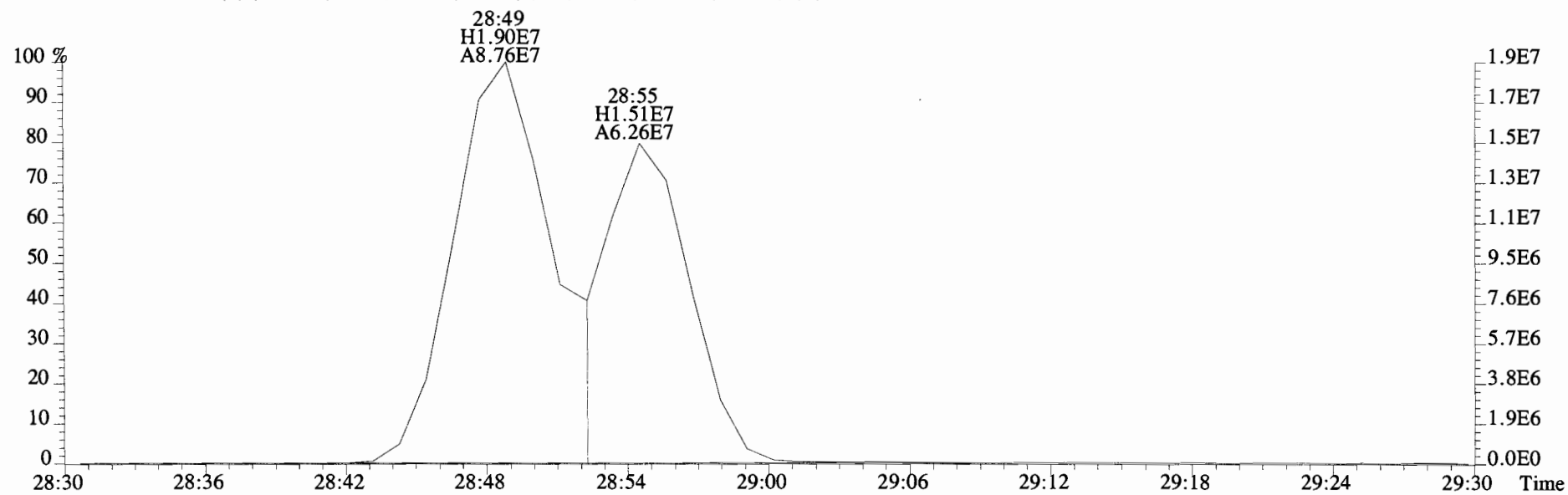
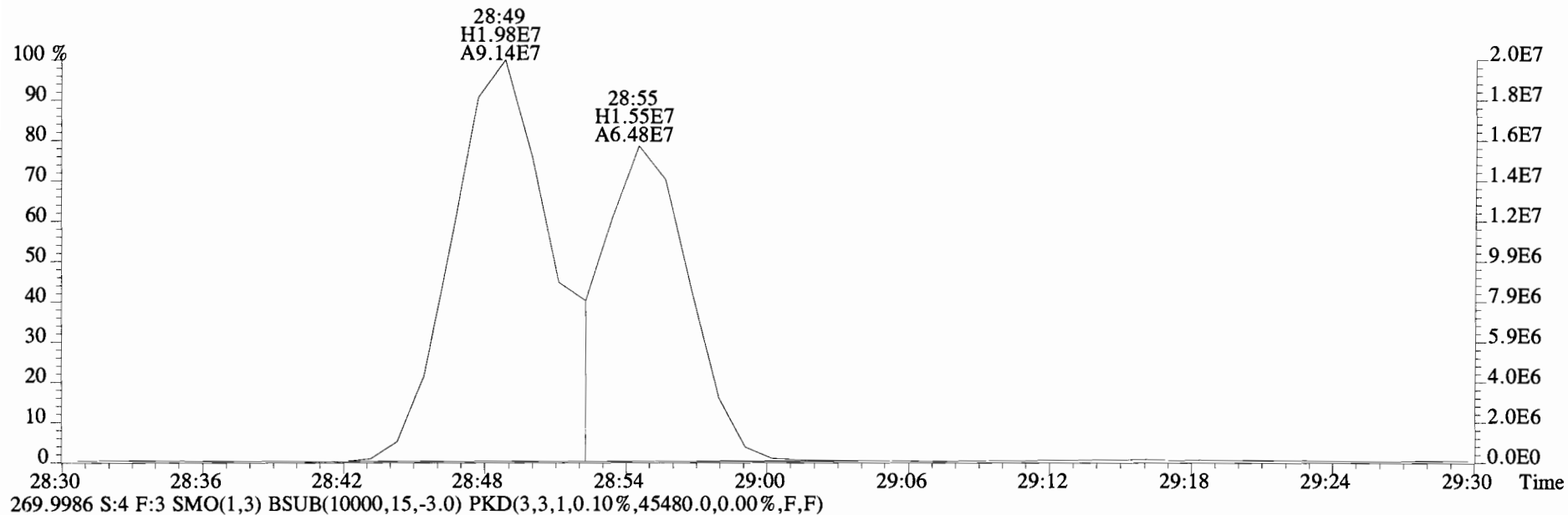


File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,4036.0,0.00%,F,F)

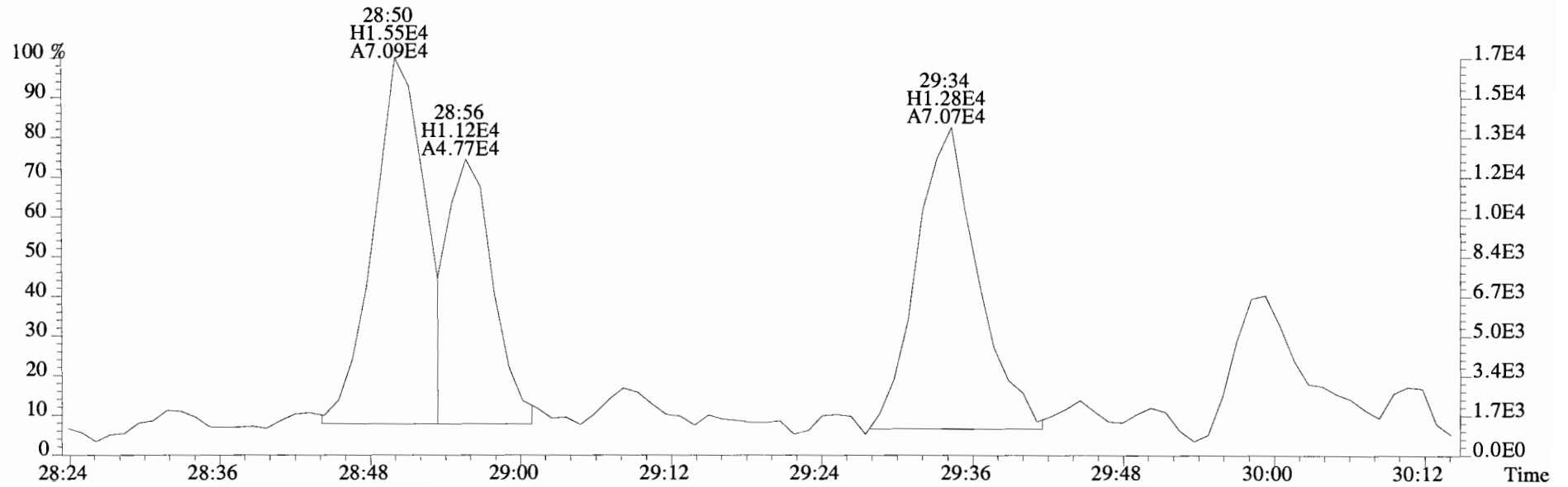
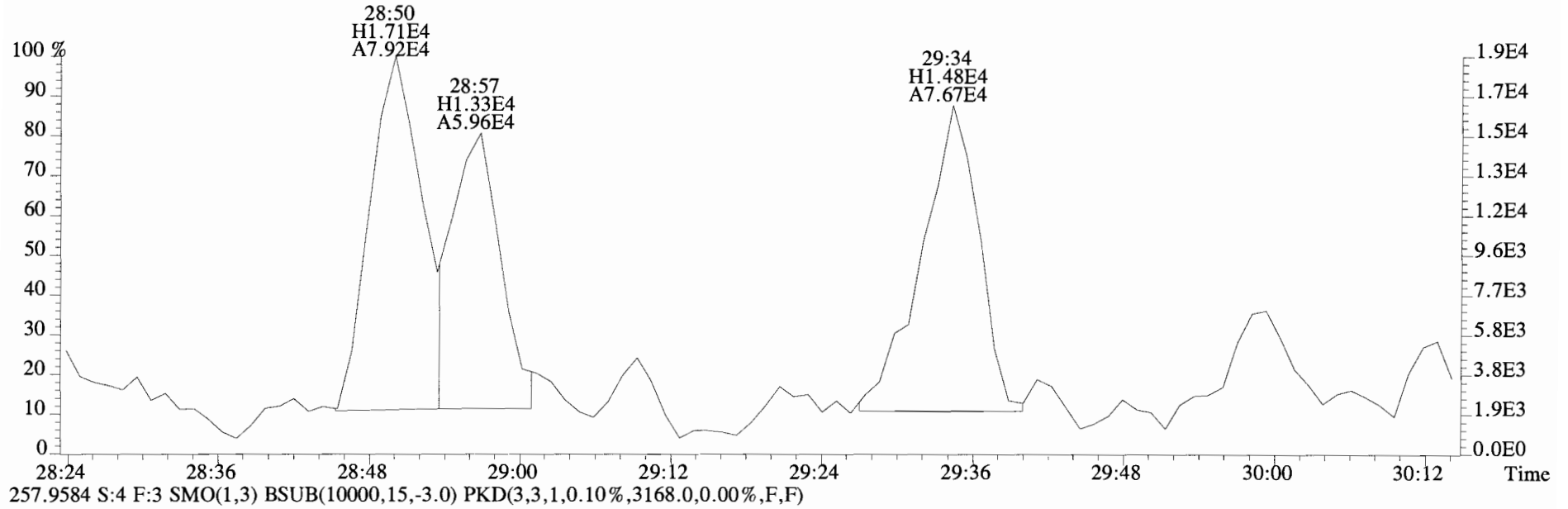




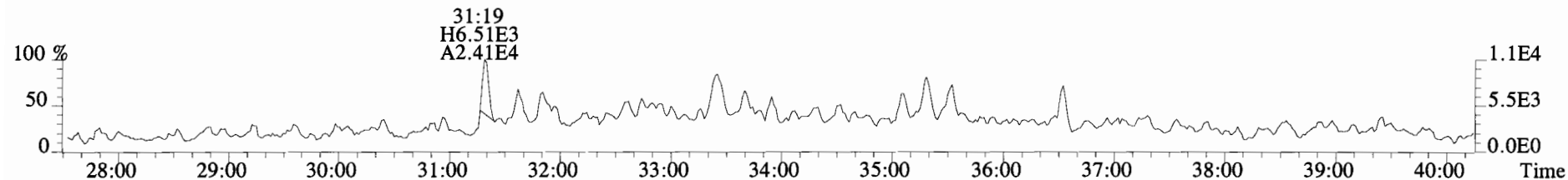
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,103432.0,0.00%,F,F)



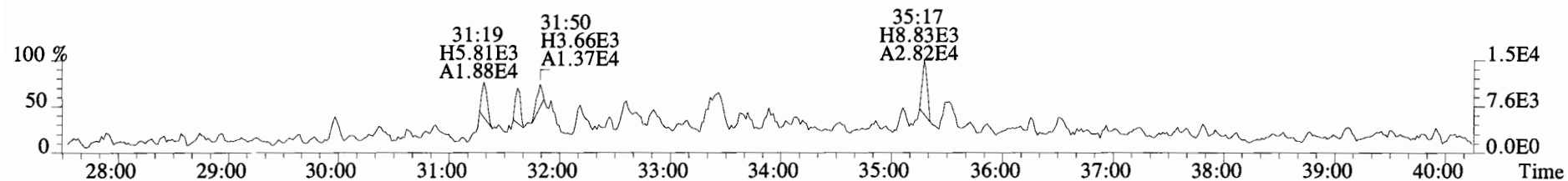
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
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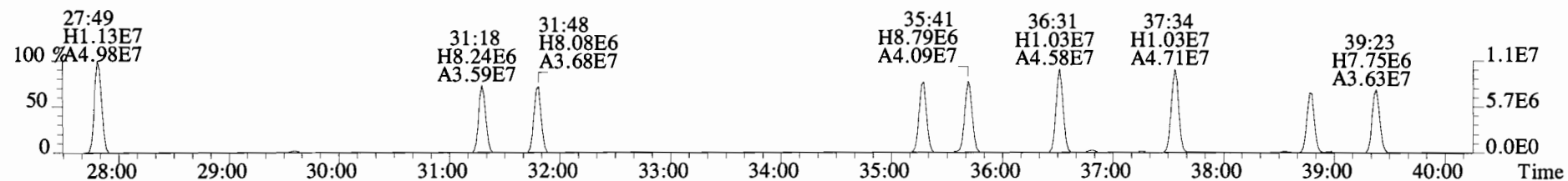
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



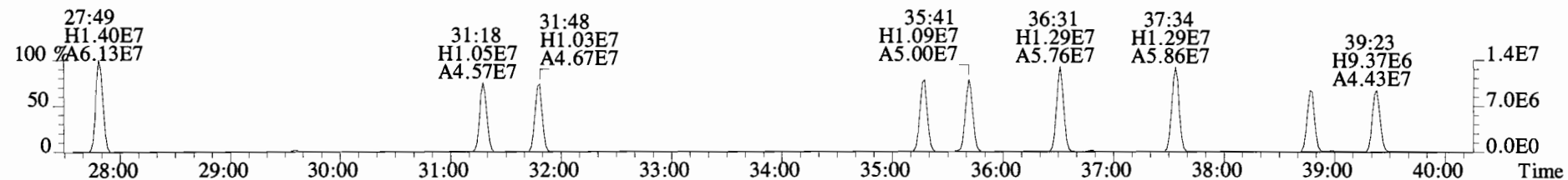
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3788.0,0.00%,F,F)



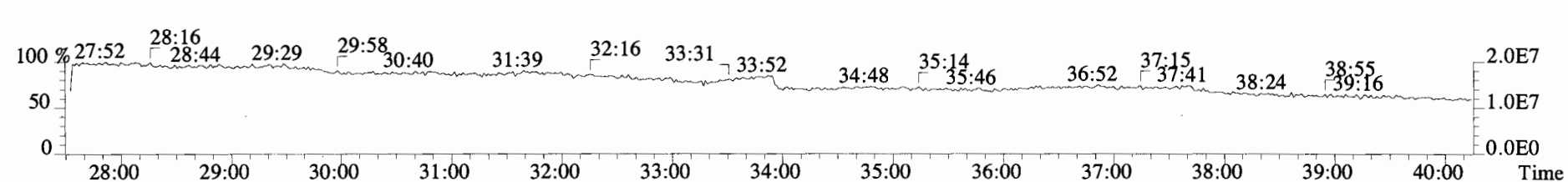
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10064.0,0.00%,F,F)



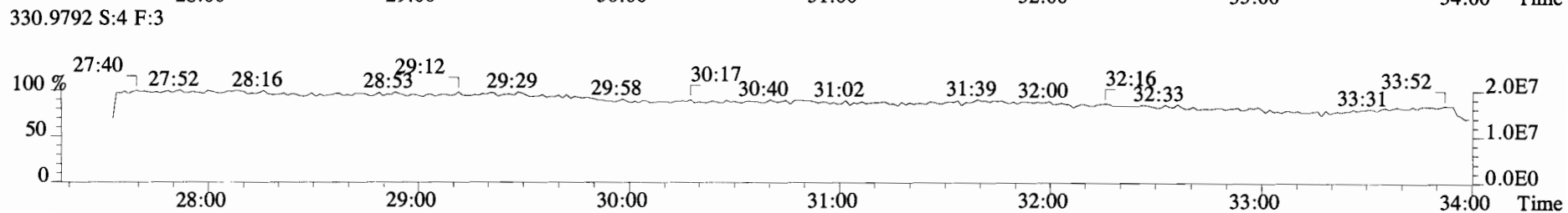
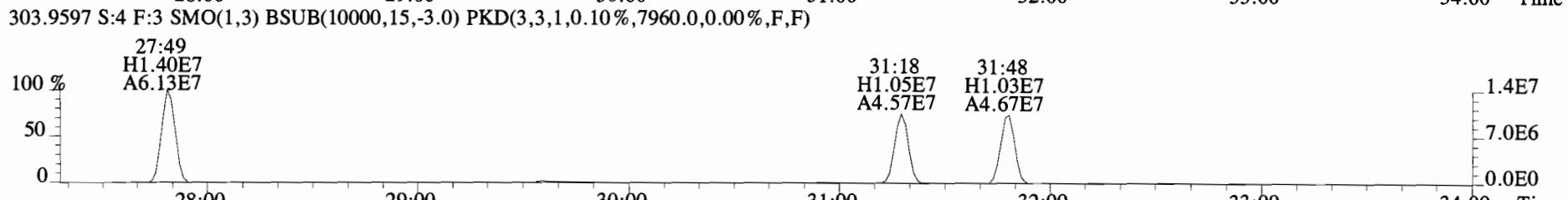
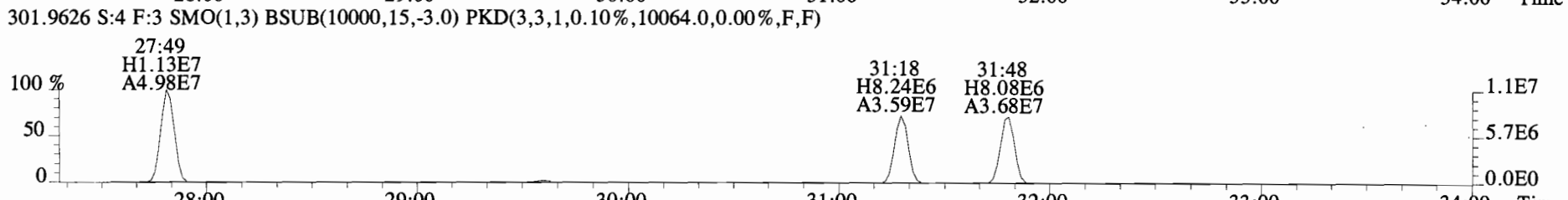
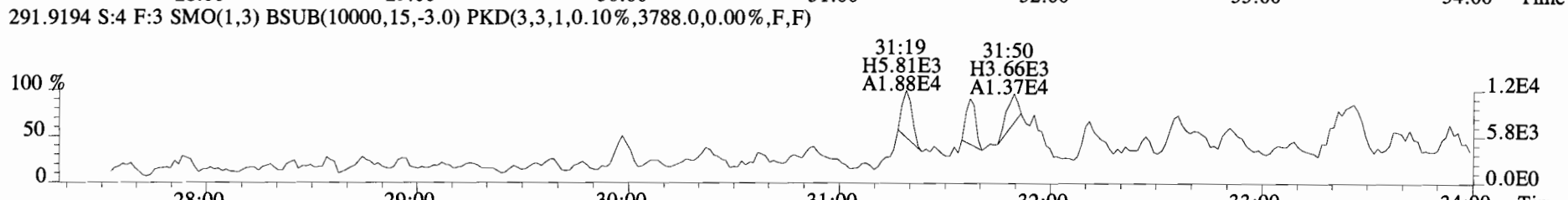
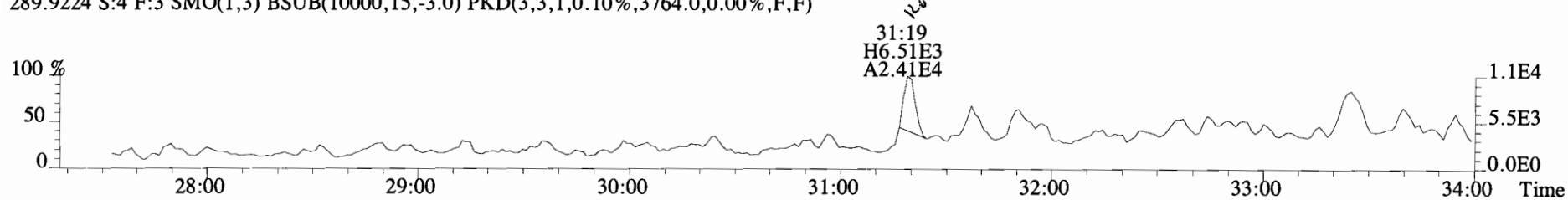
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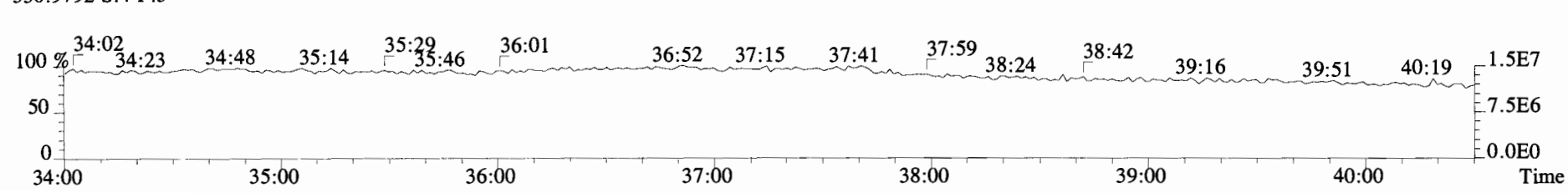
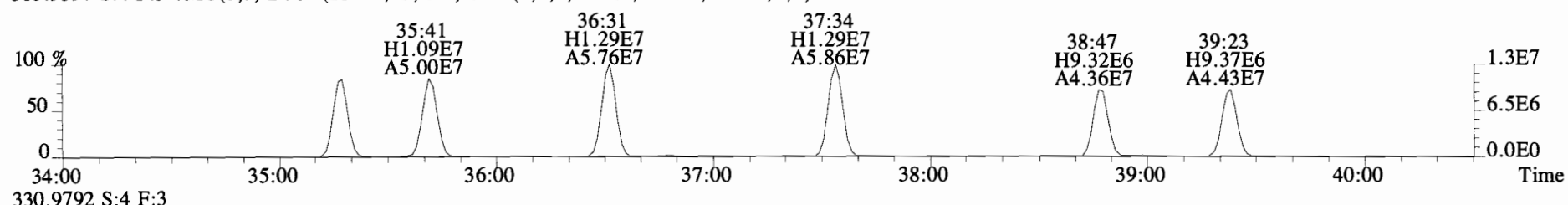
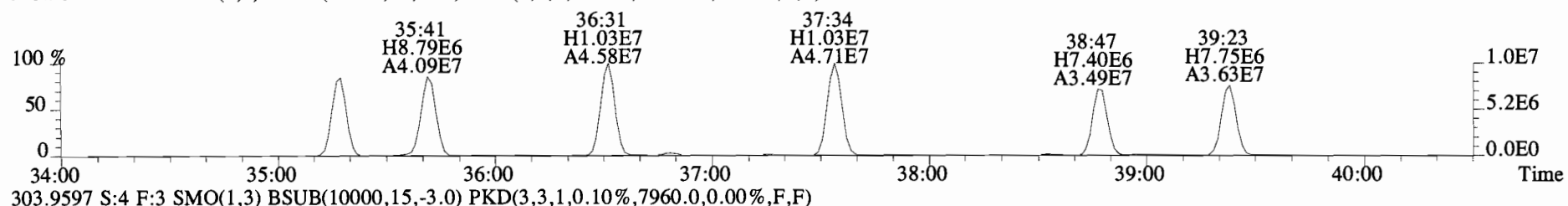
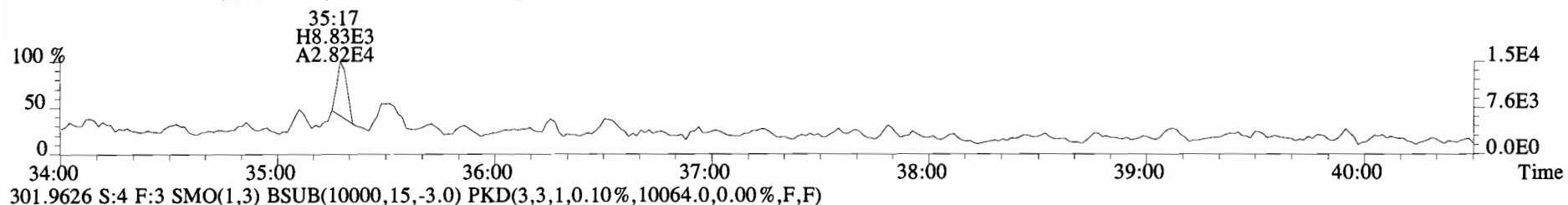
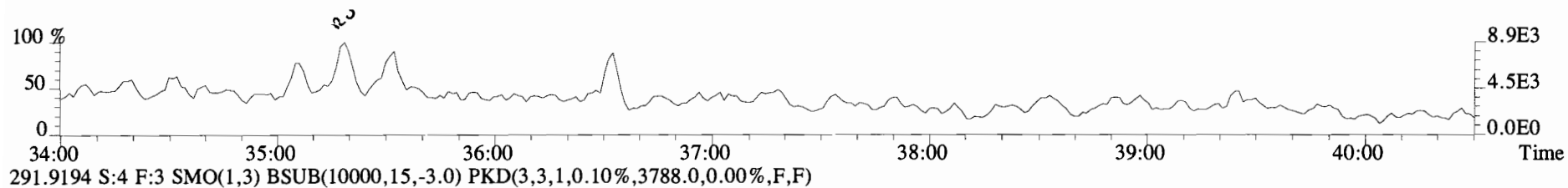
330.9792 S:4 F:3



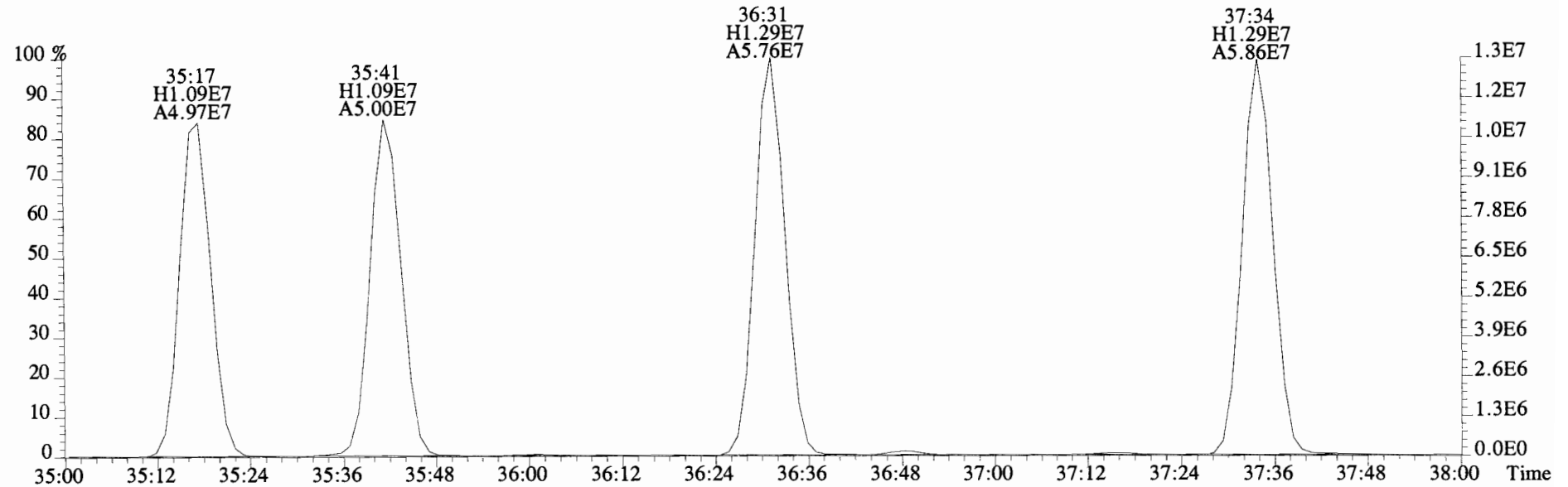
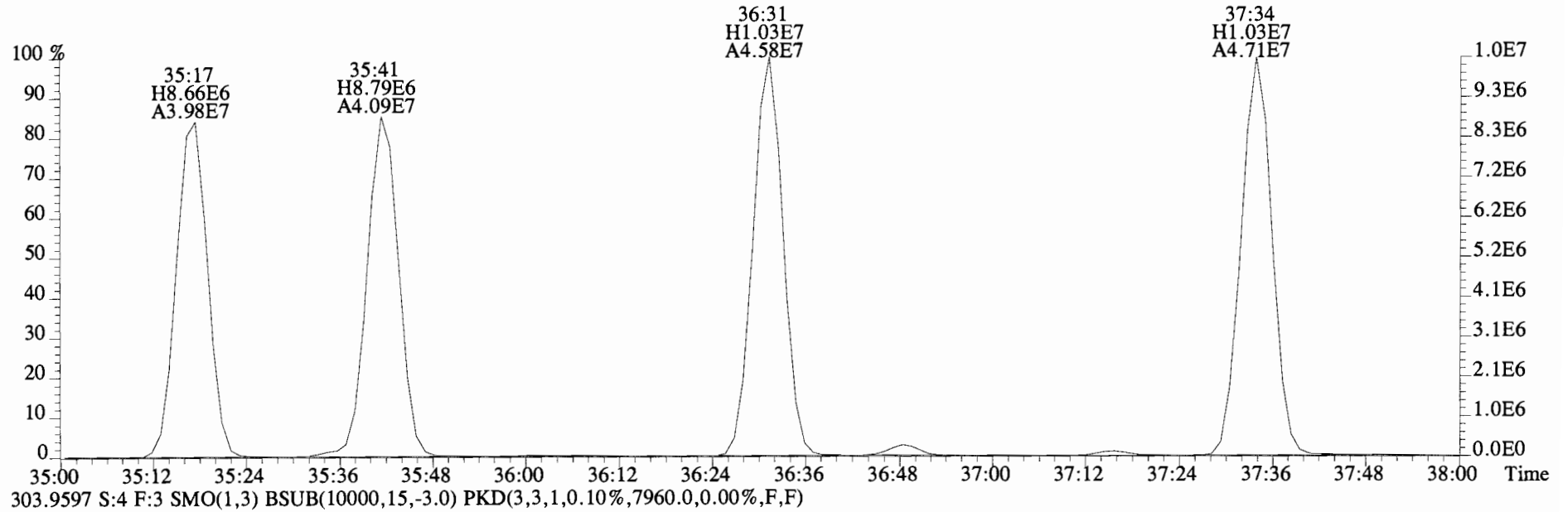
File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



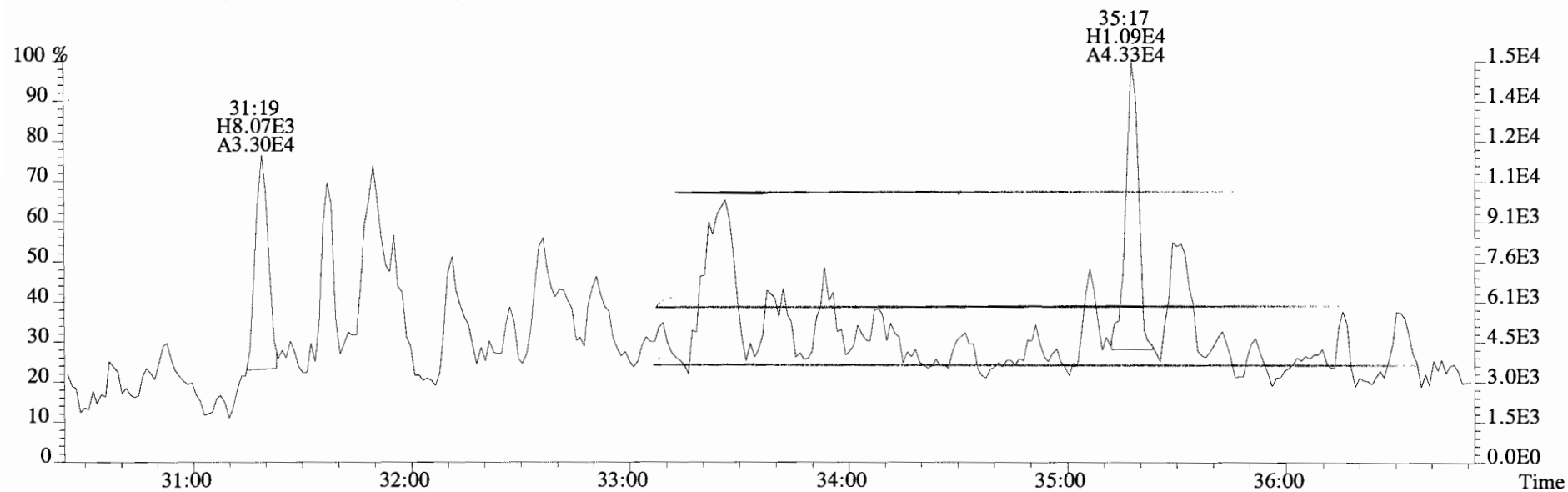
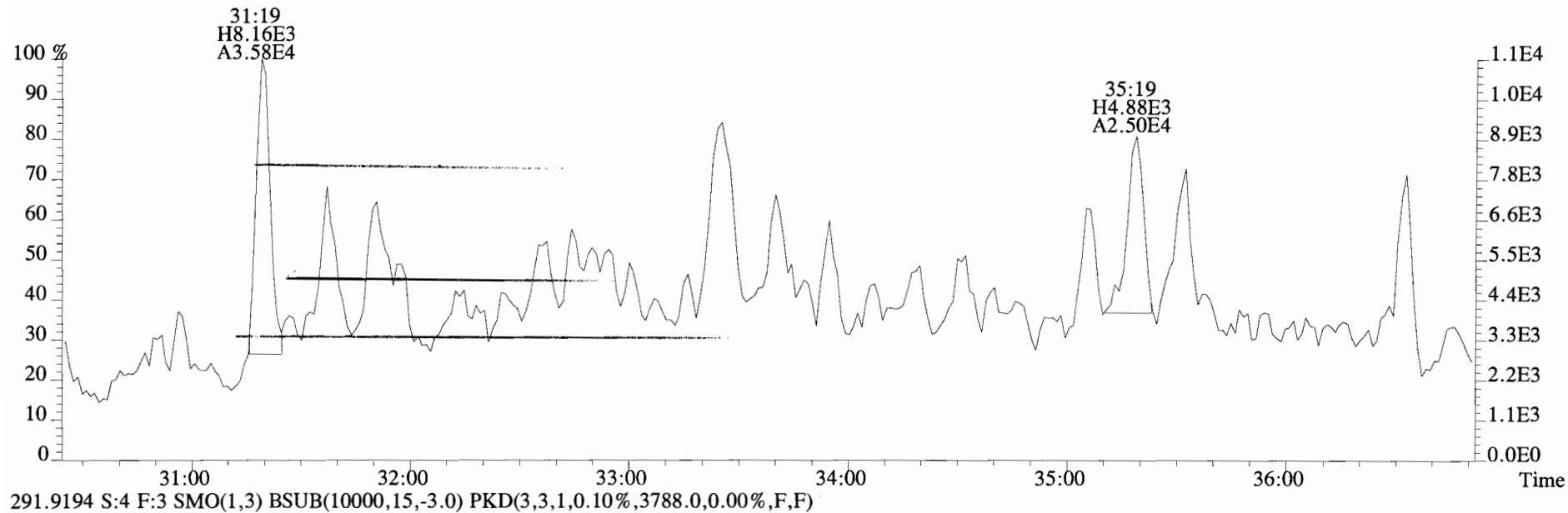
File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



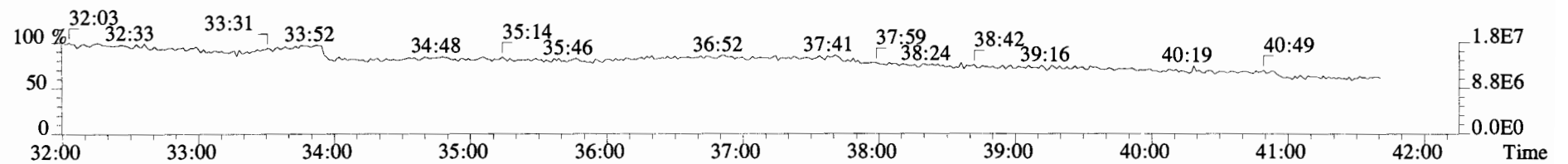
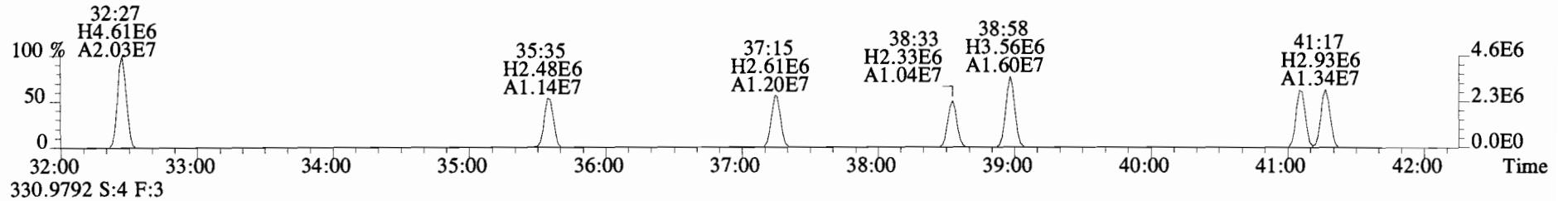
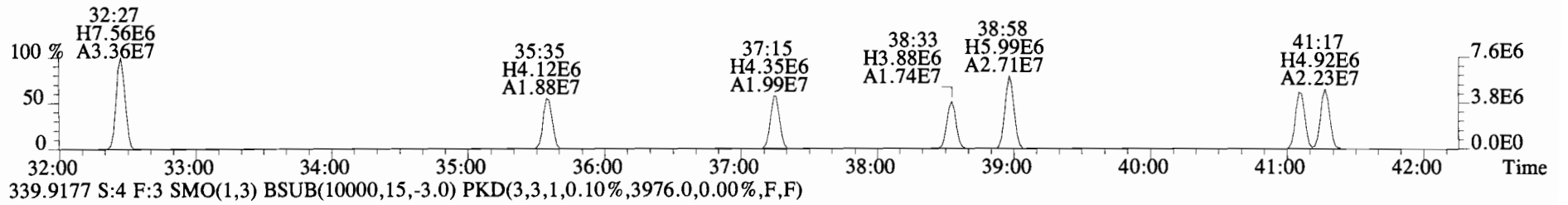
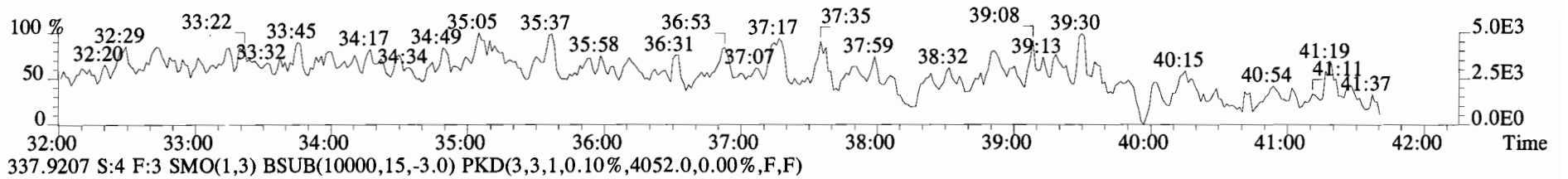
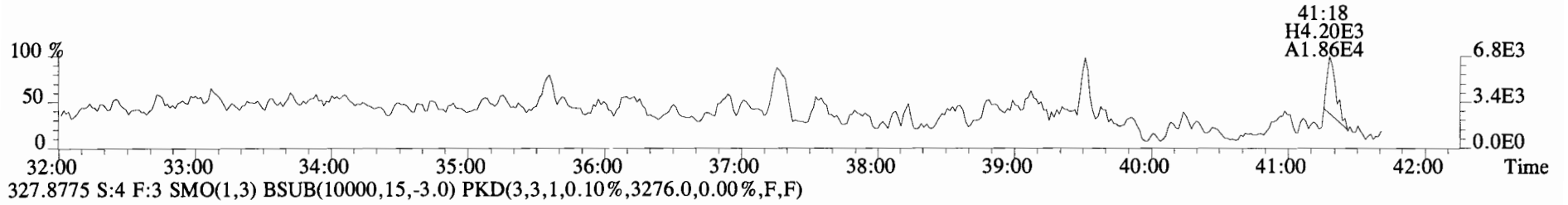
File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10064.0,0.00%,F,F)



File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)

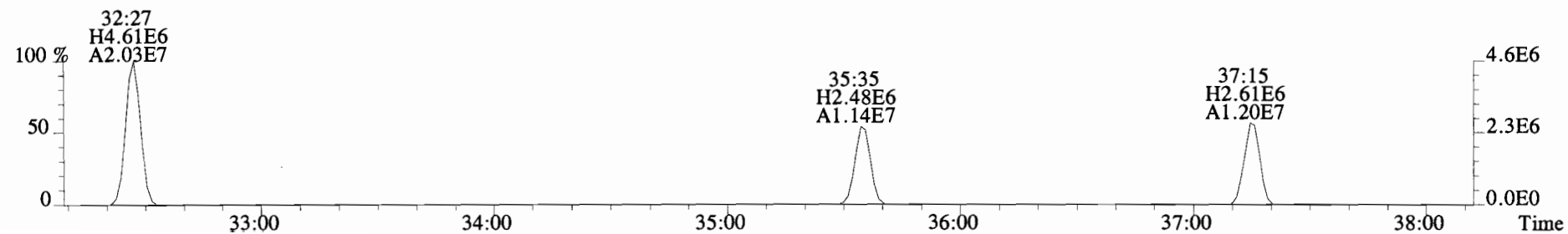
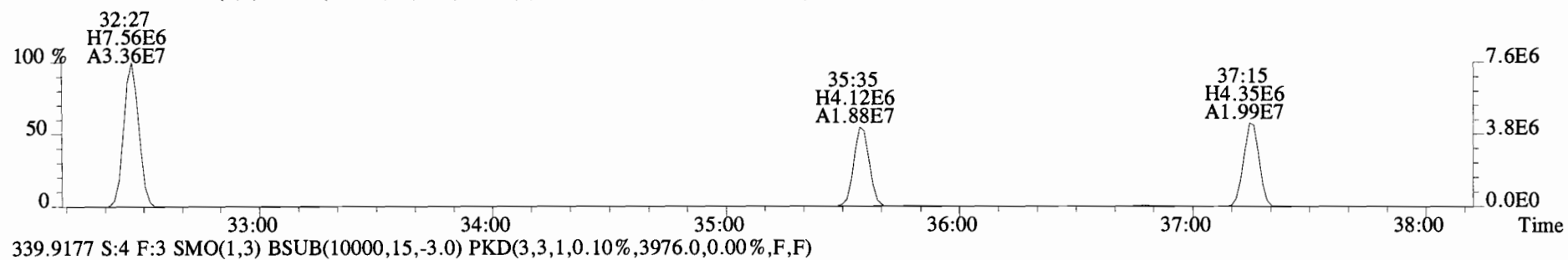
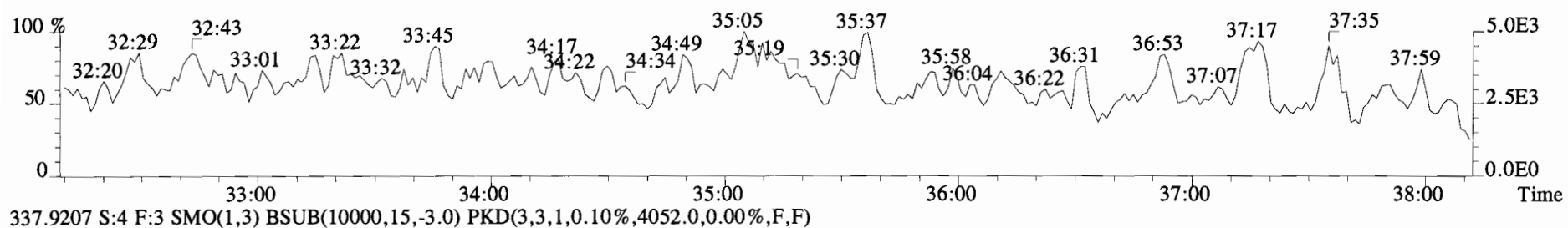
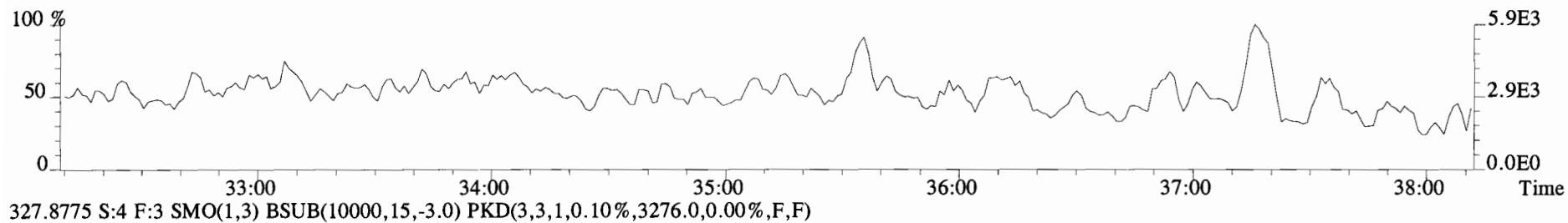


File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)

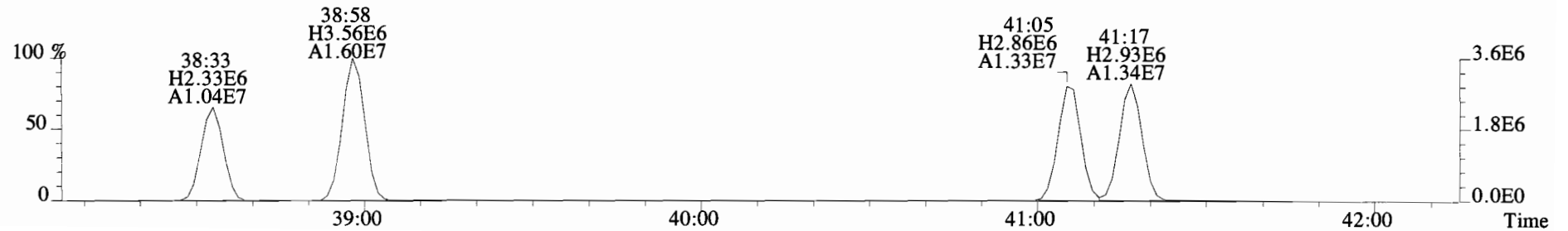
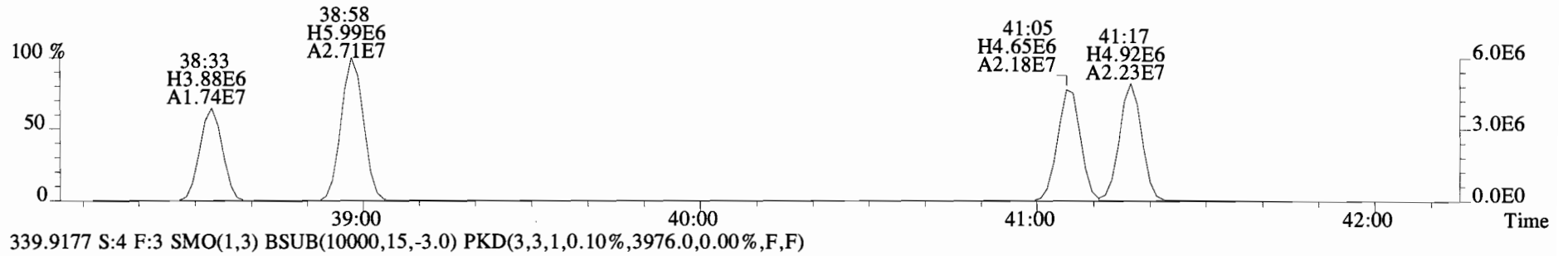
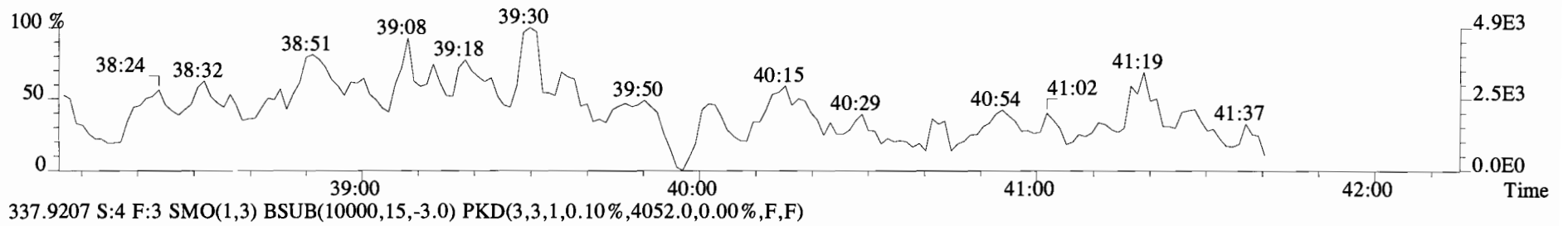
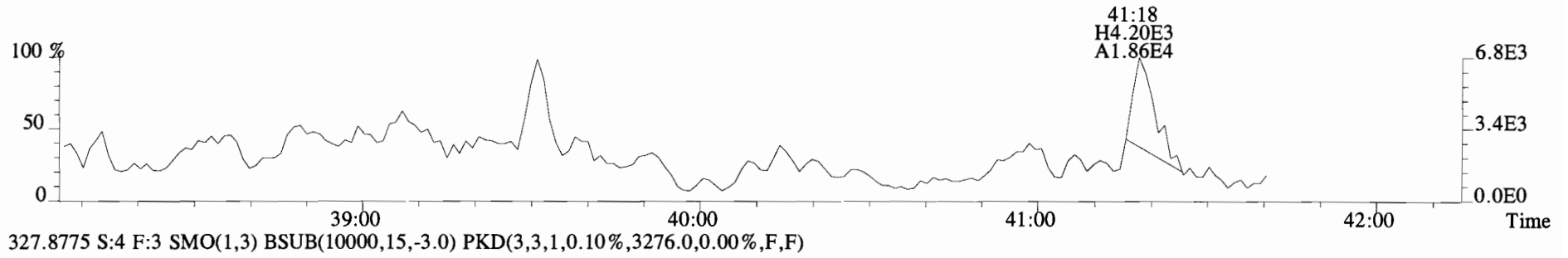




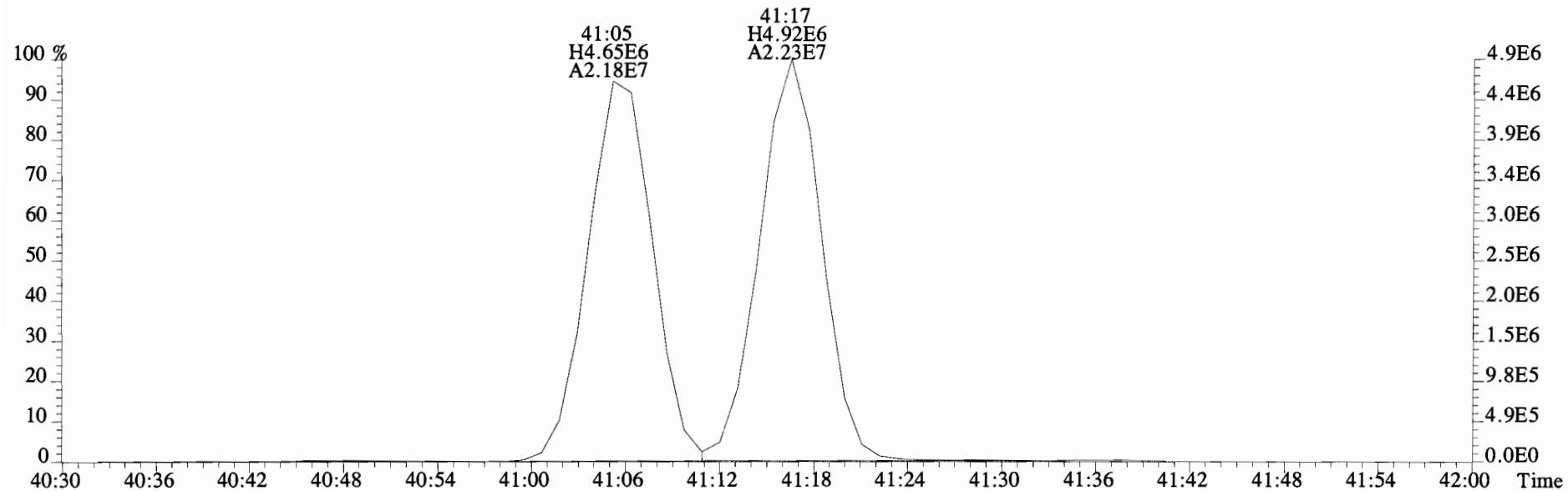
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



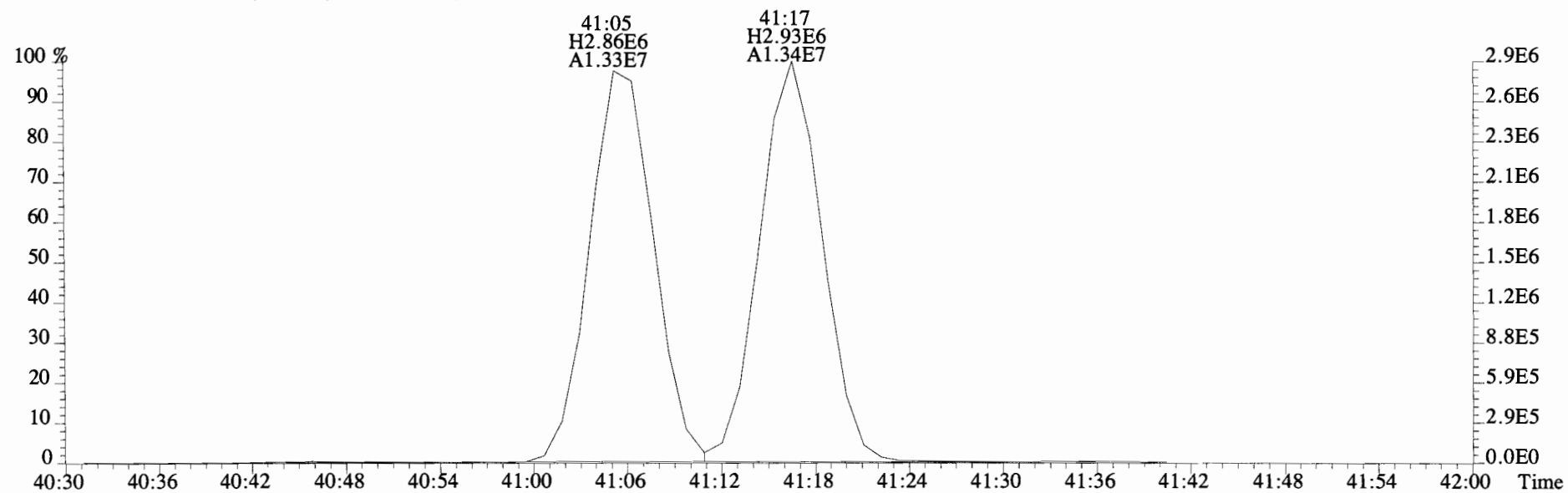
File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



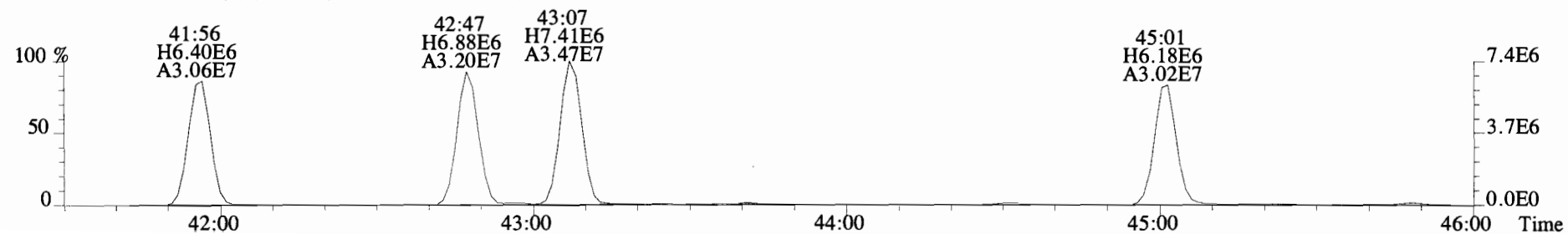
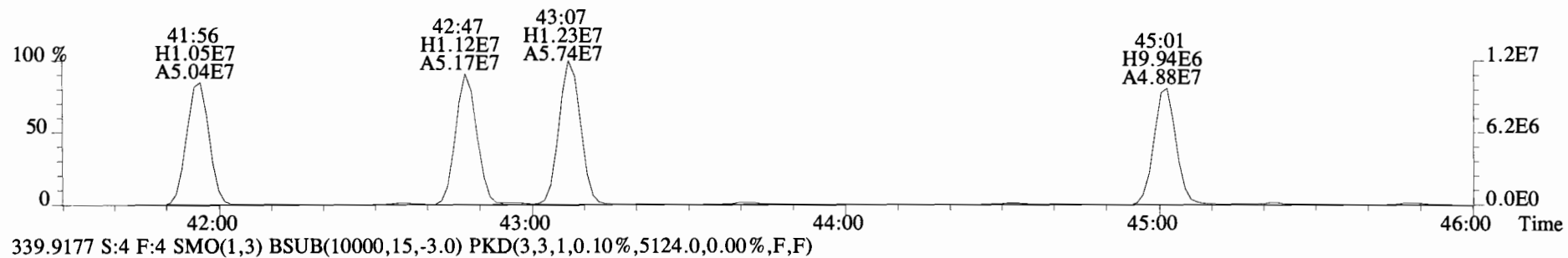
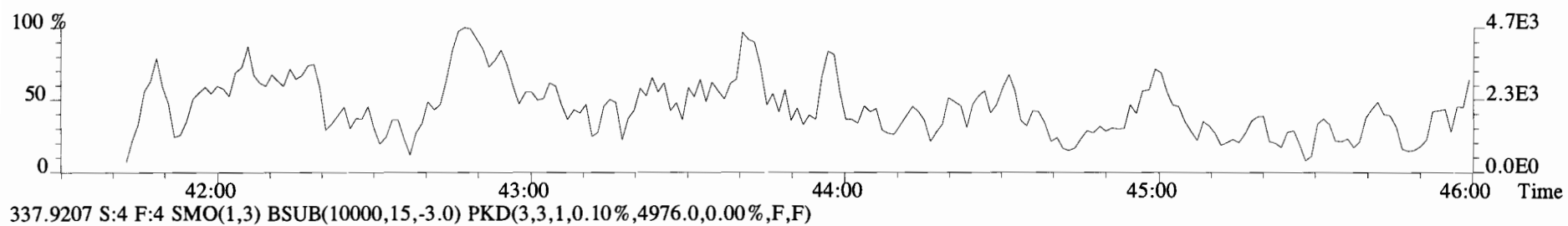
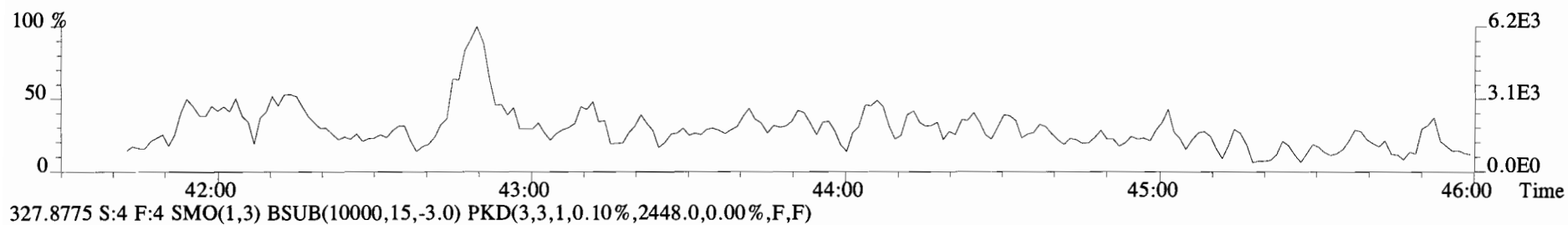
File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4052.0,0.00%,F,F)



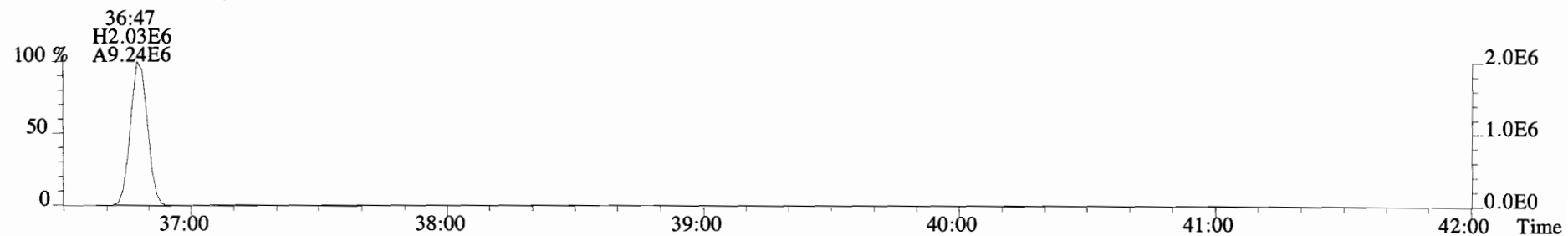
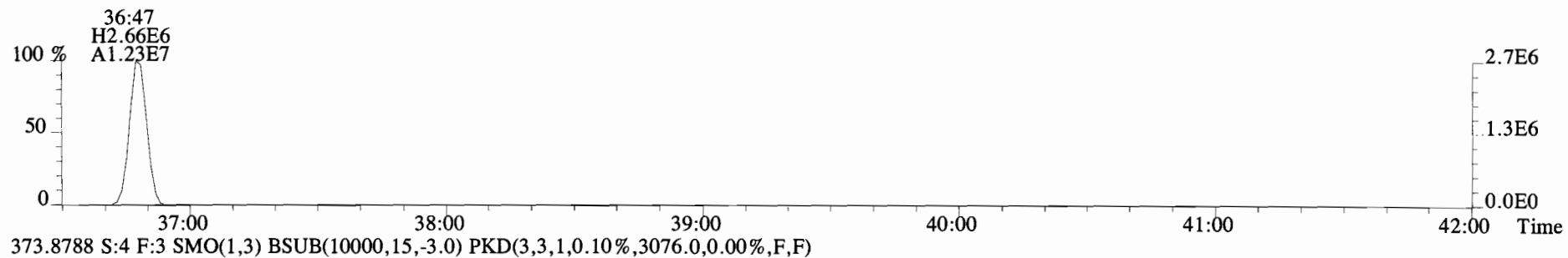
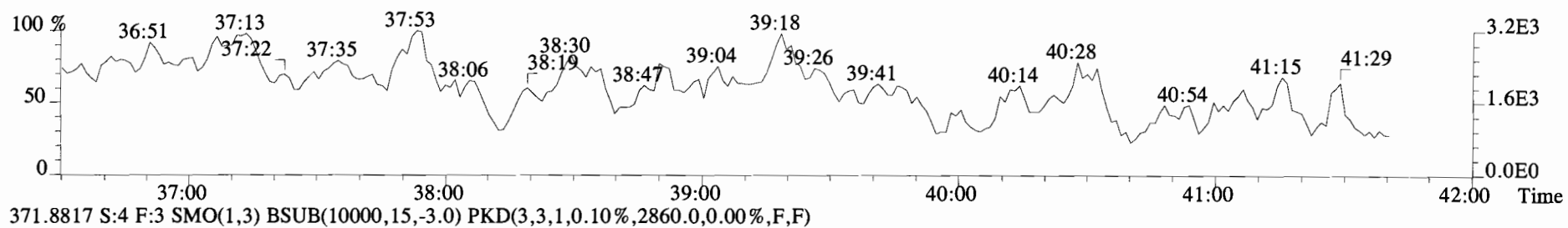
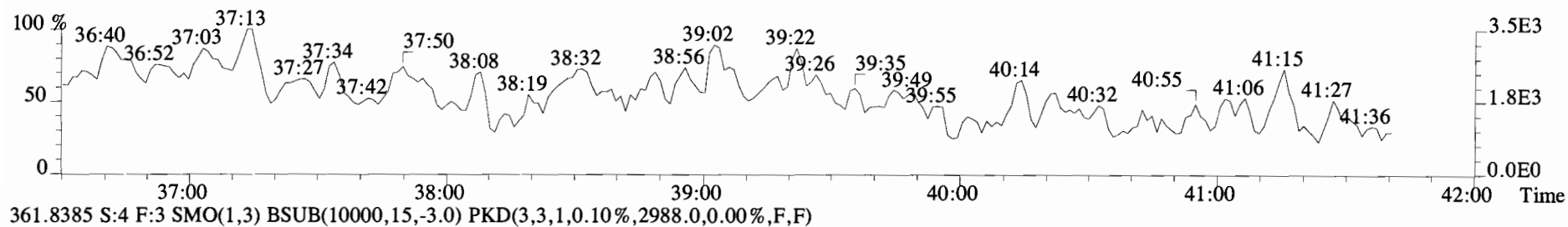
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3976.0,0.00%,F,F)



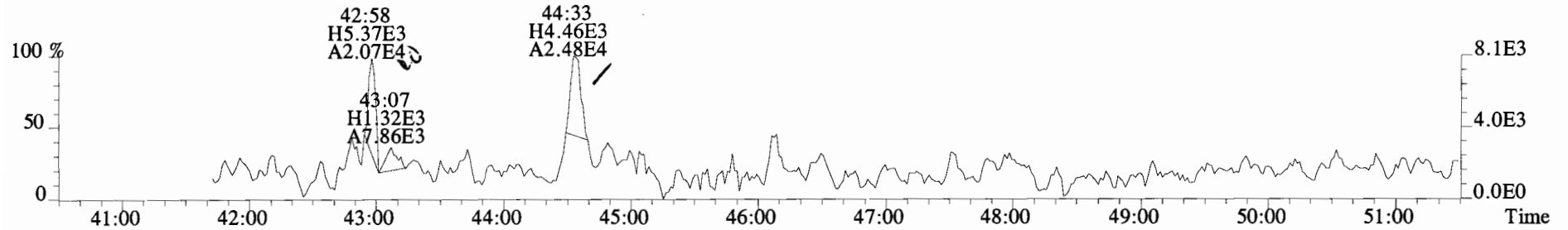
File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2060.0,0.00%,F,F)



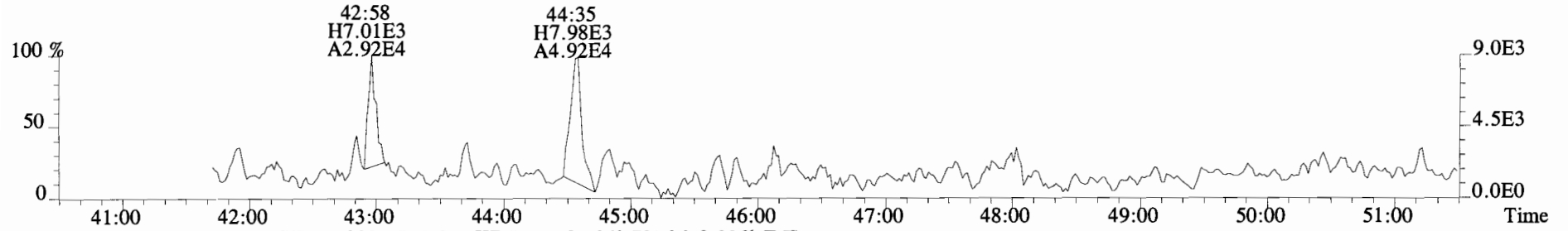
File:140910E2 #1-747 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2968.0,0.00%,F,F)



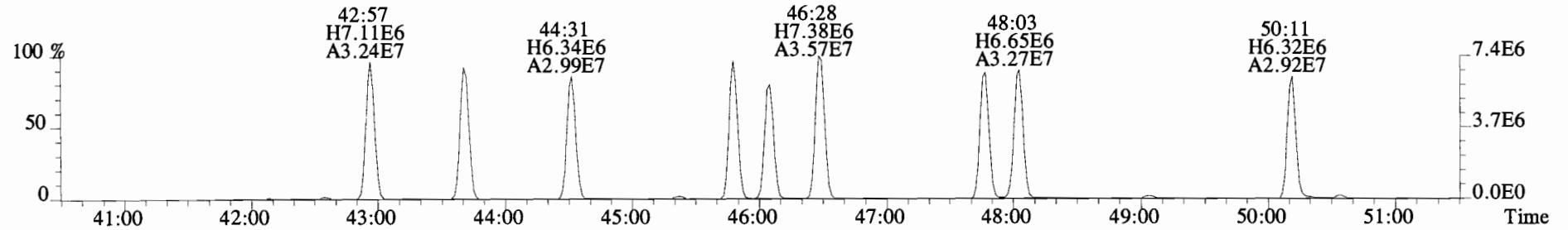
File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2024.0,0.00%,F,F)



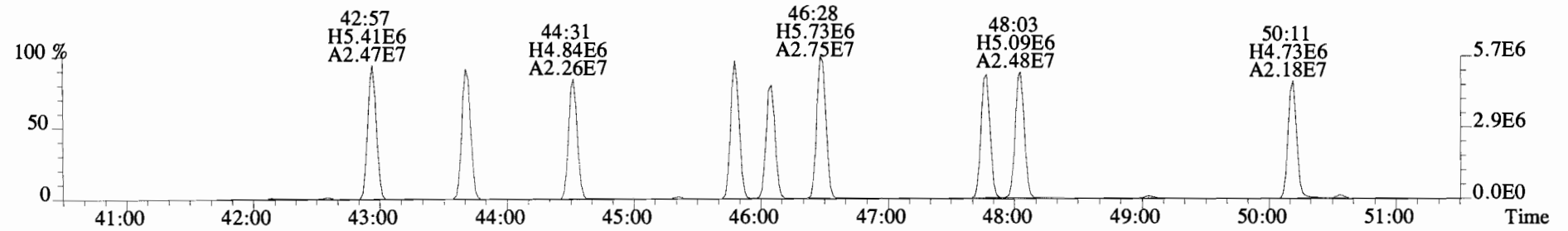
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



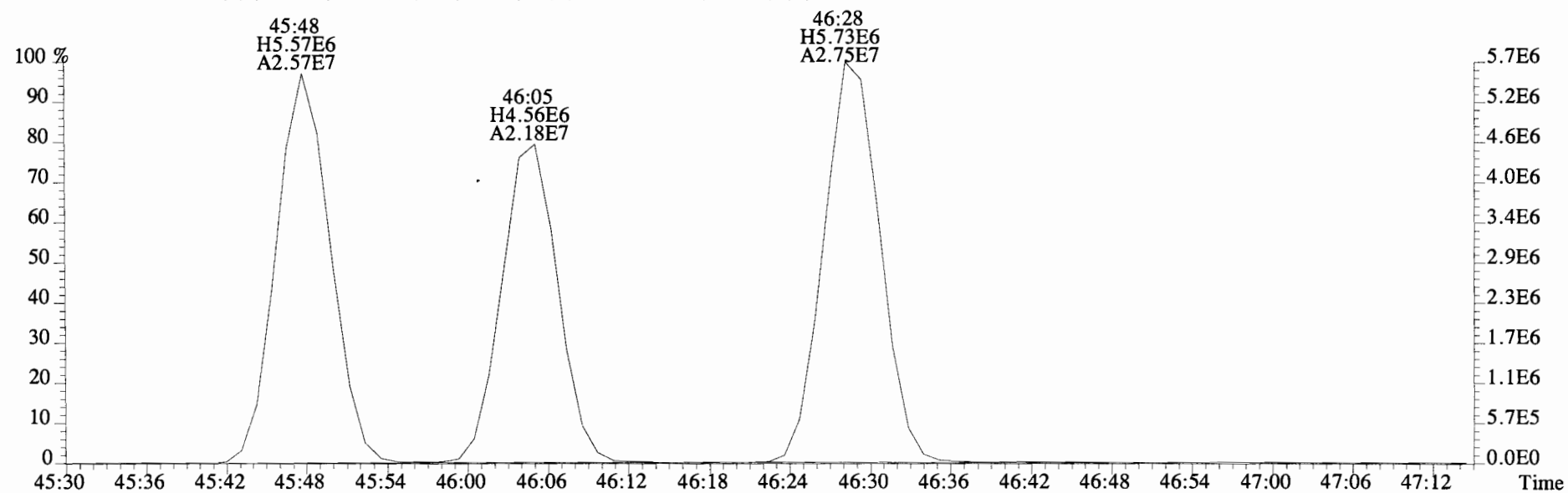
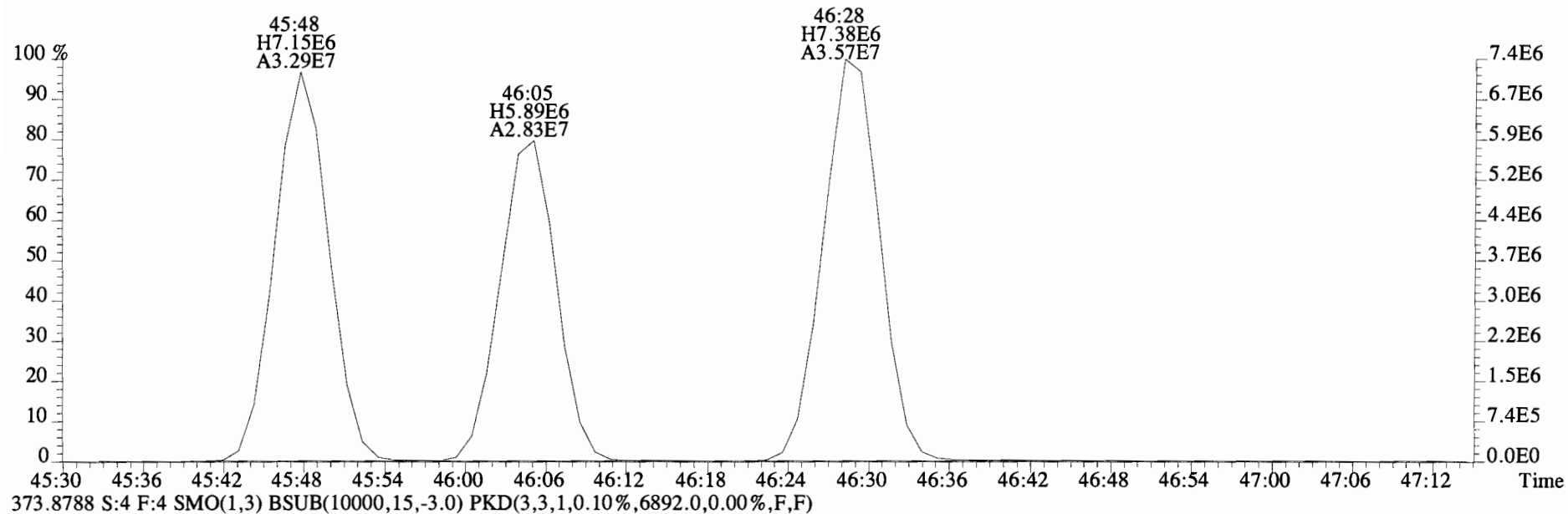
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7056.0,0.00%,F,F)



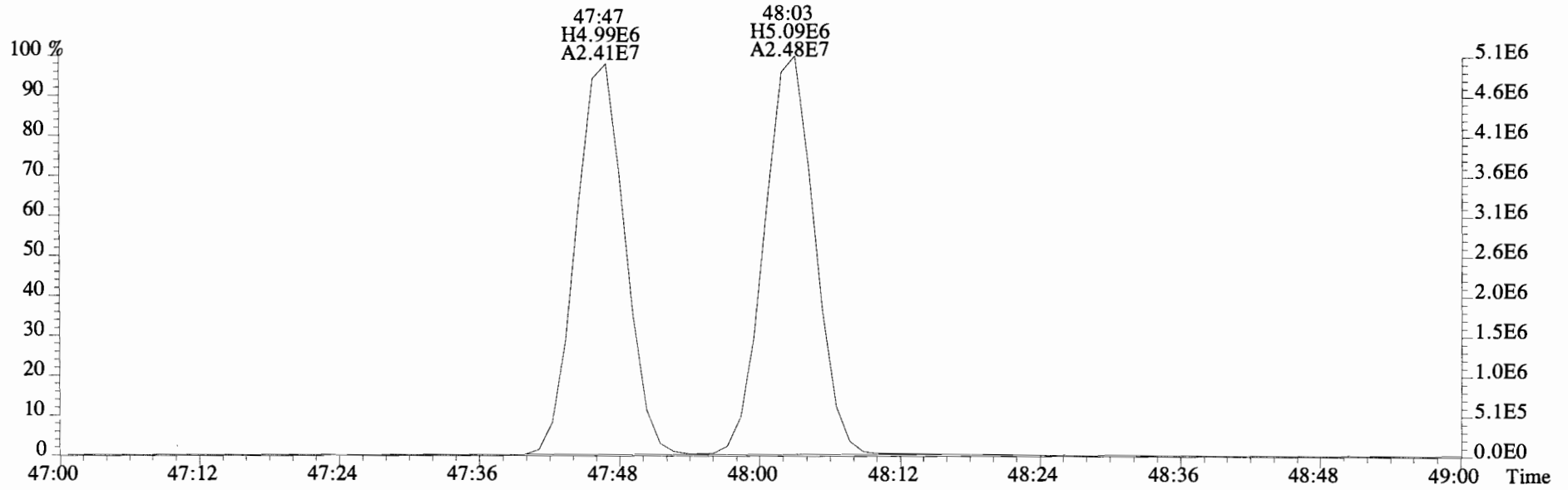
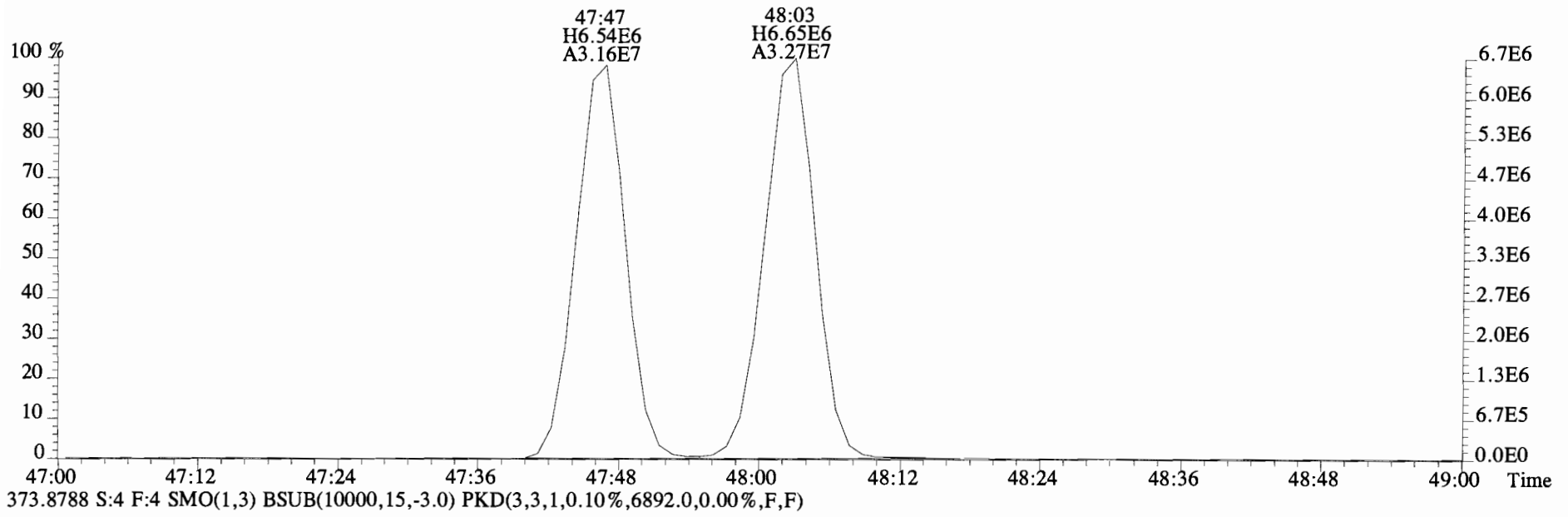
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6892.0,0.00%,F,F)



File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7056.0,0.00%,F,F)

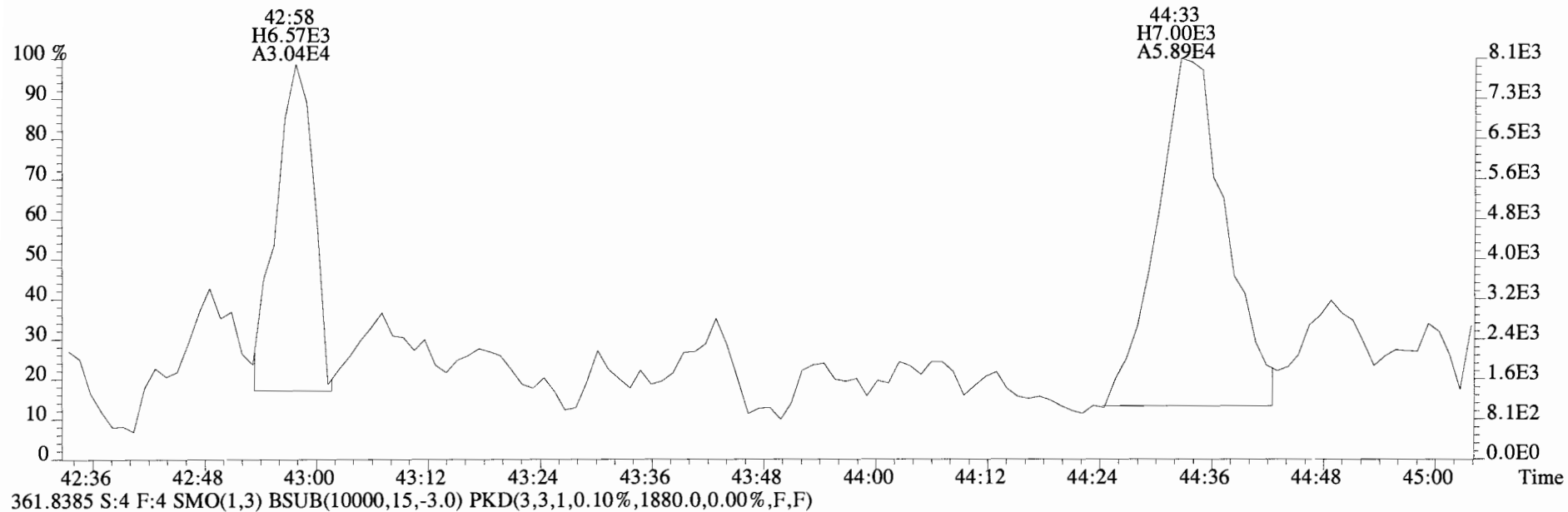


File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7056.0,0.00%,F,F)

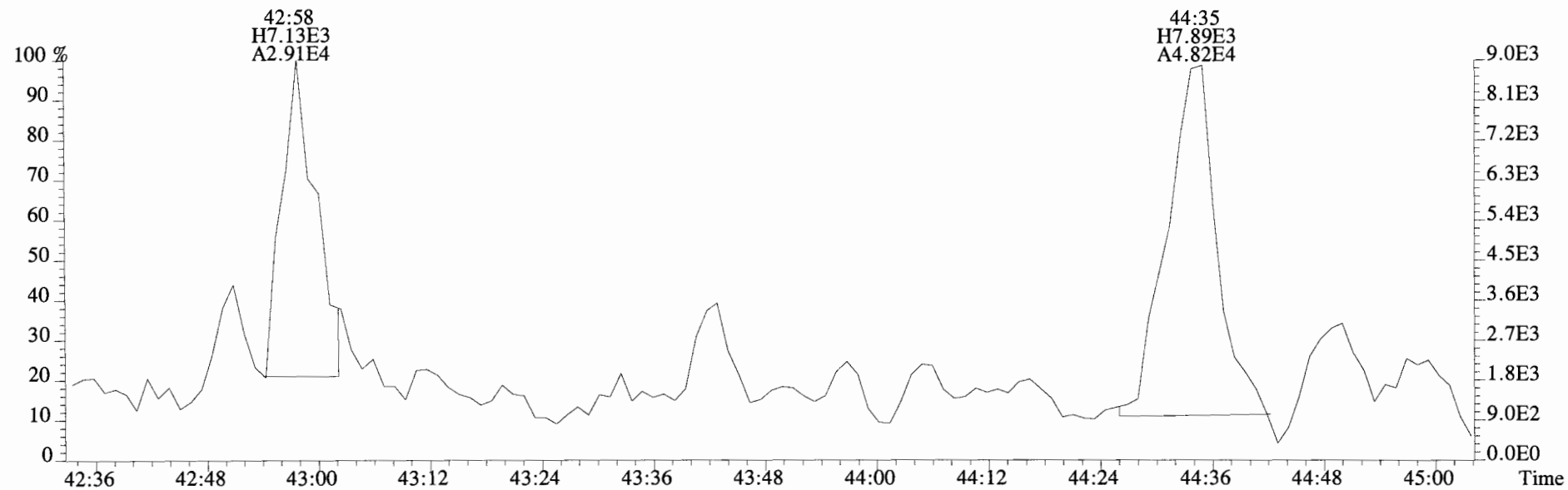




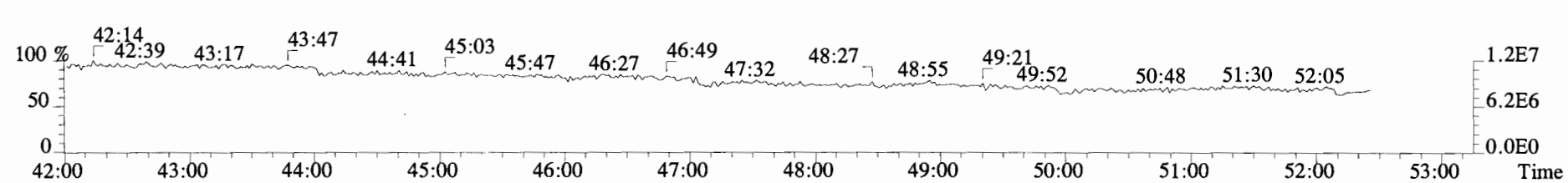
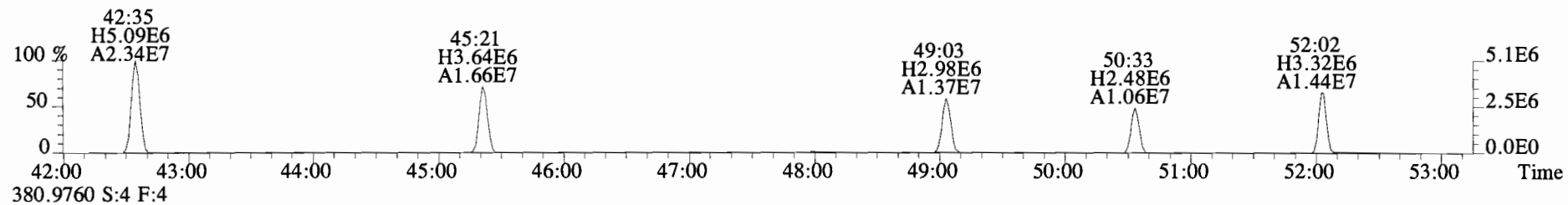
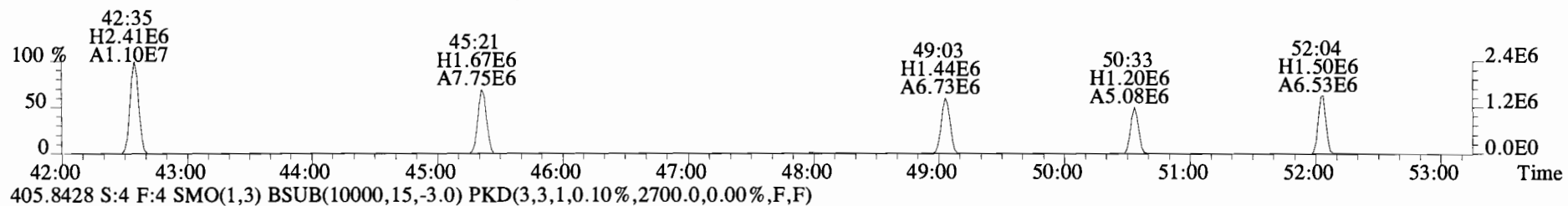
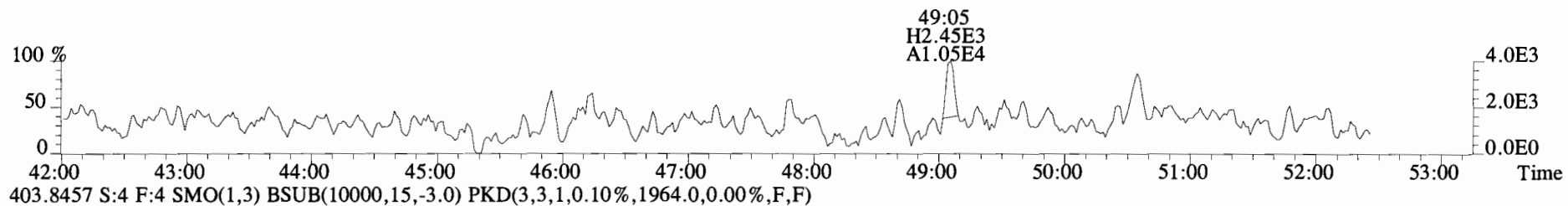
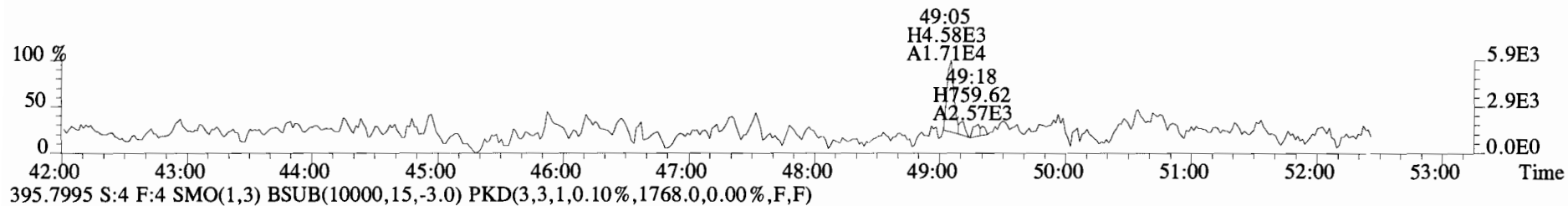
File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2024.0,0.00%,F,F)



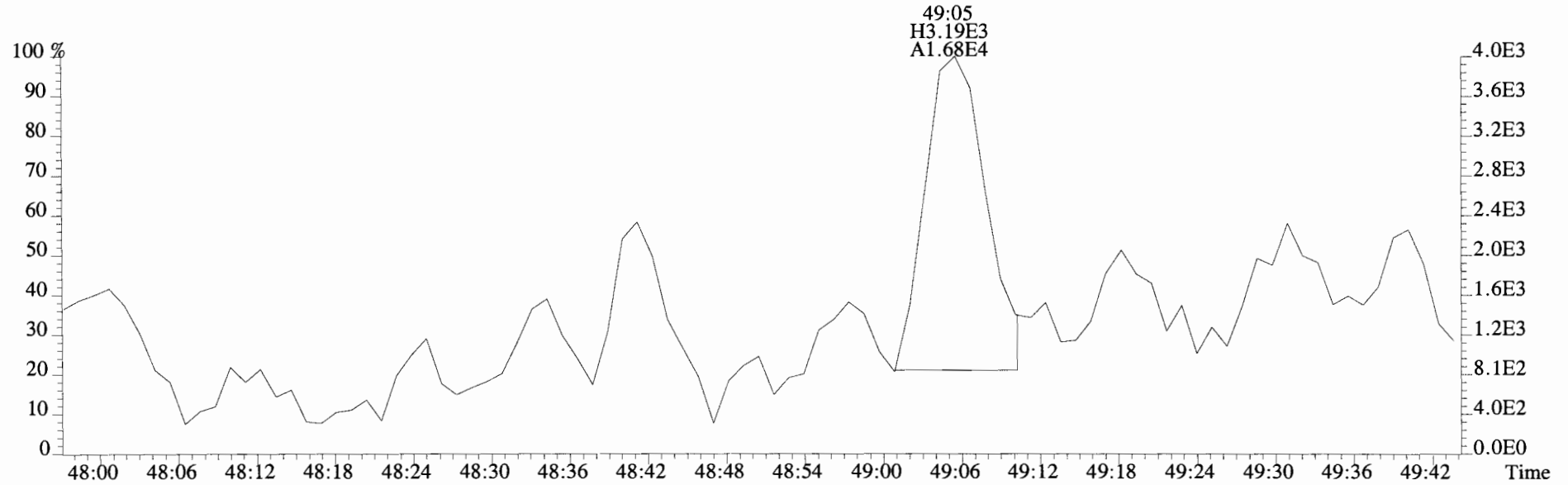
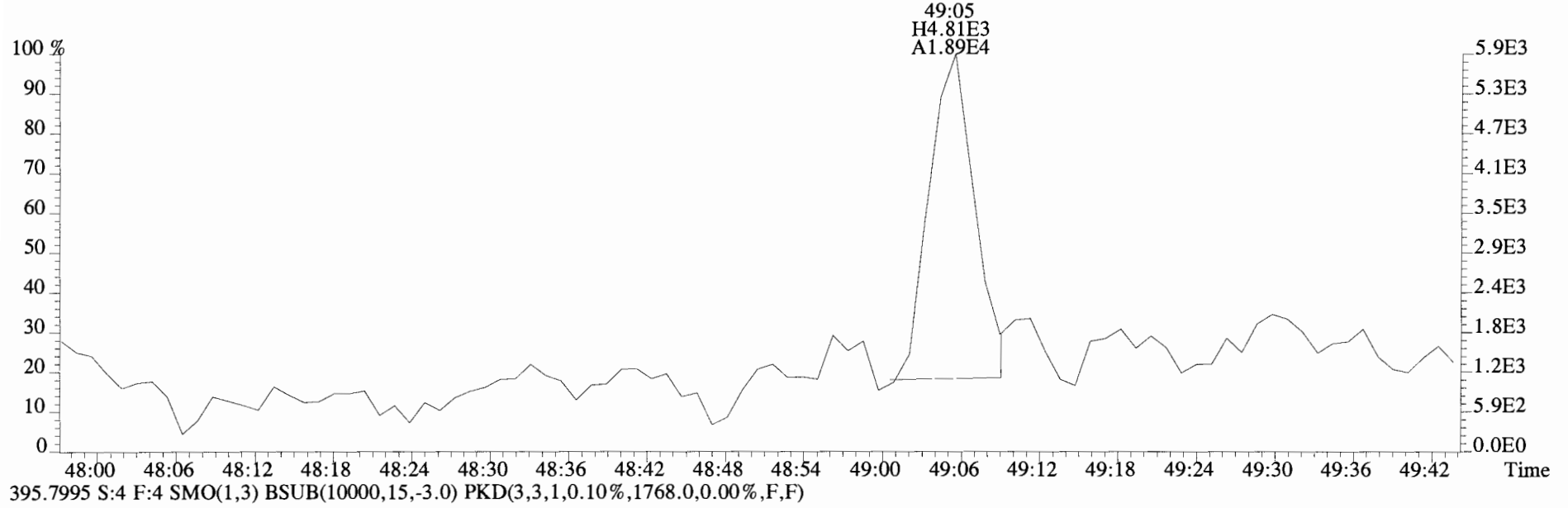
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



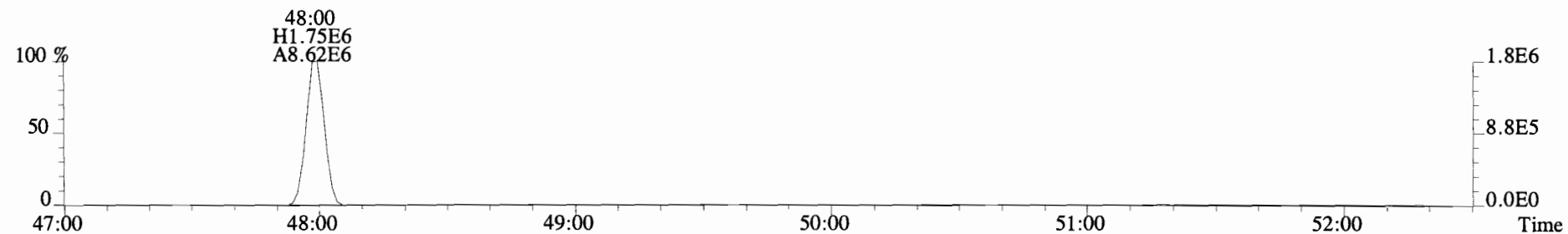
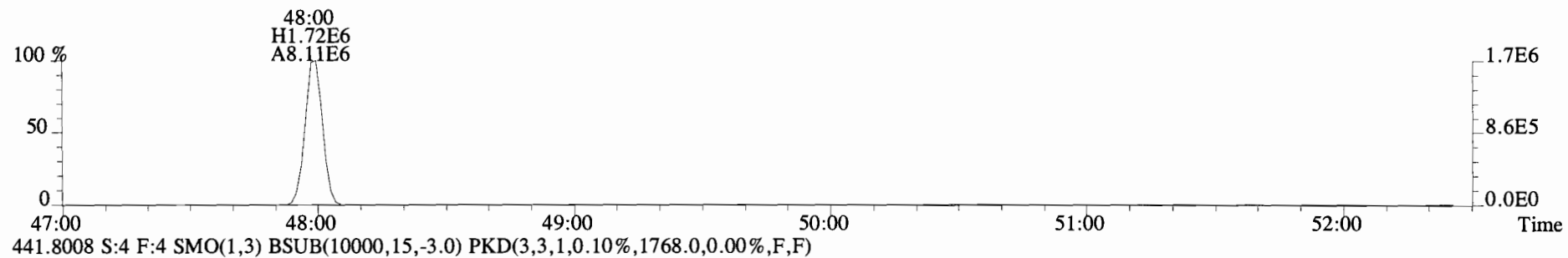
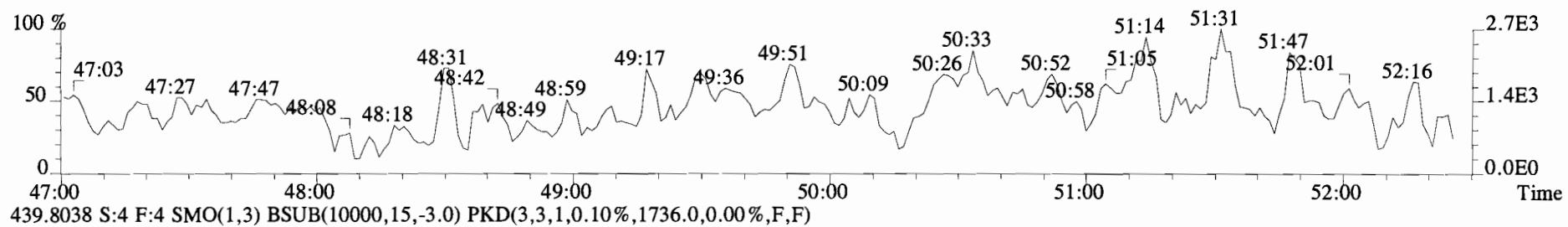
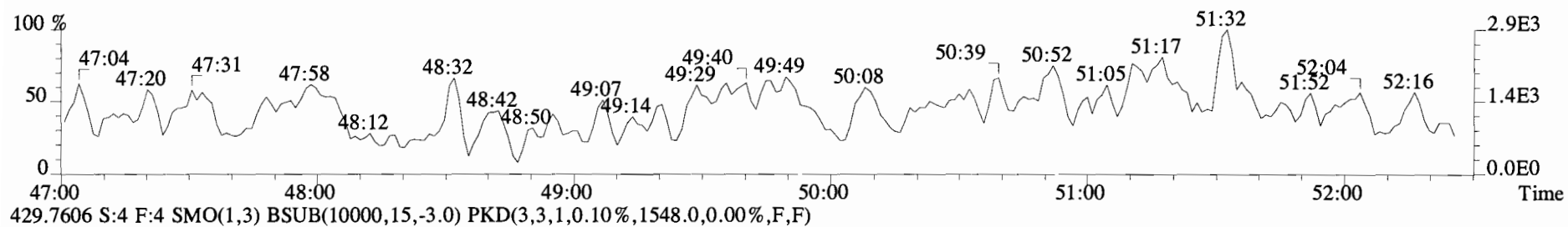
File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



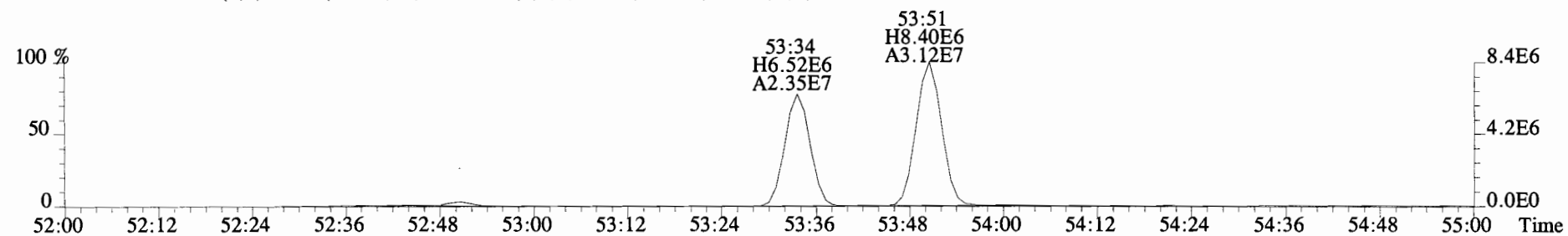
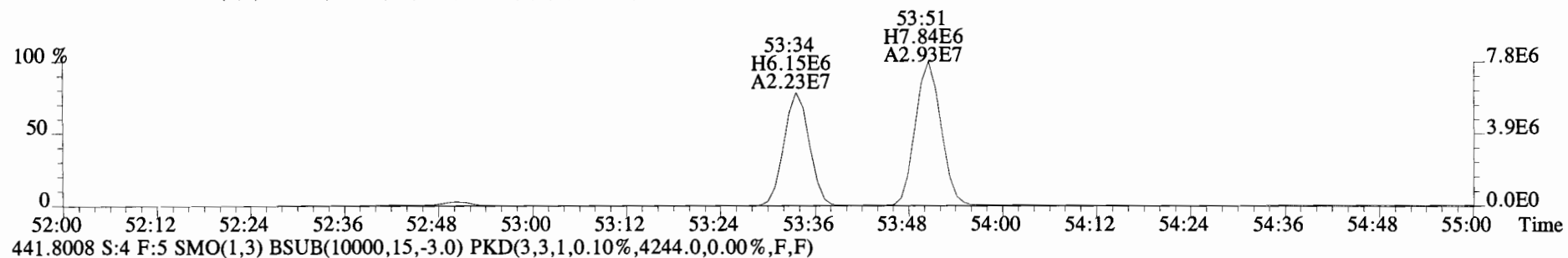
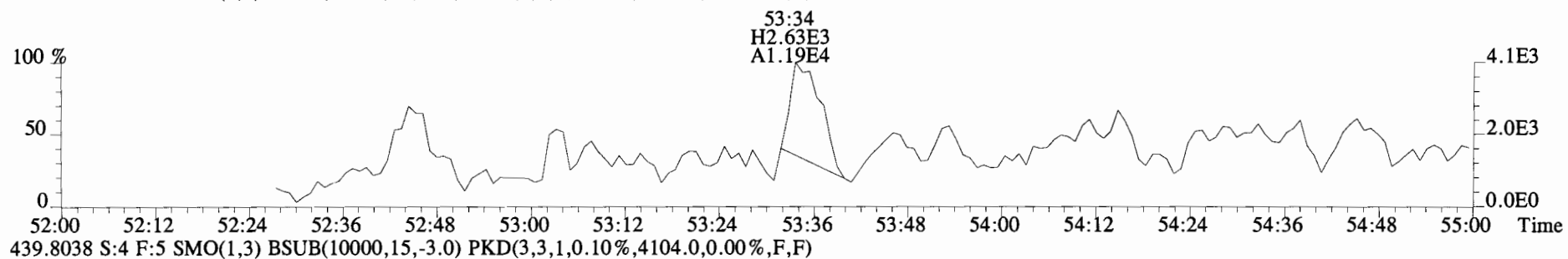
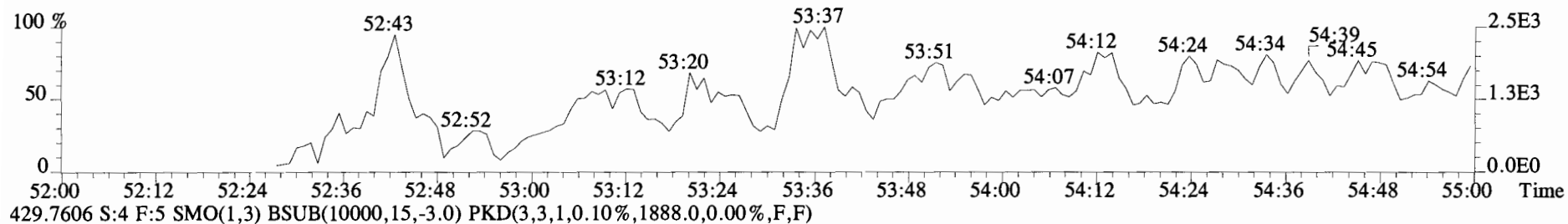
File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



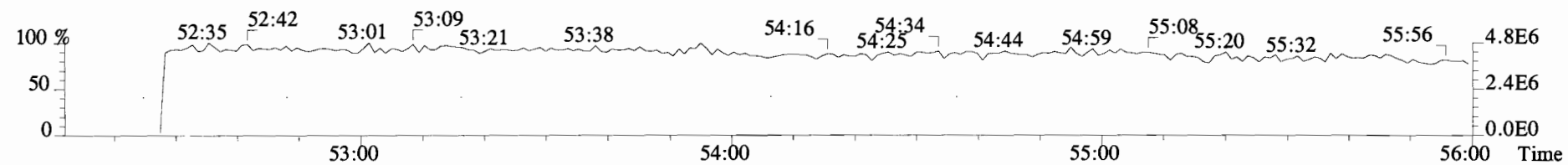
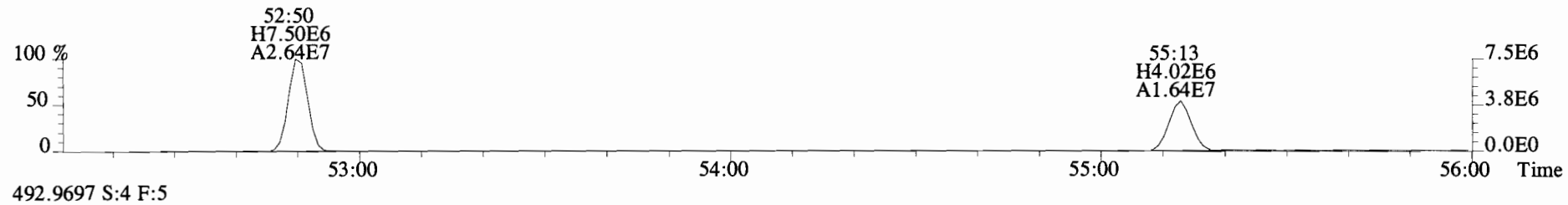
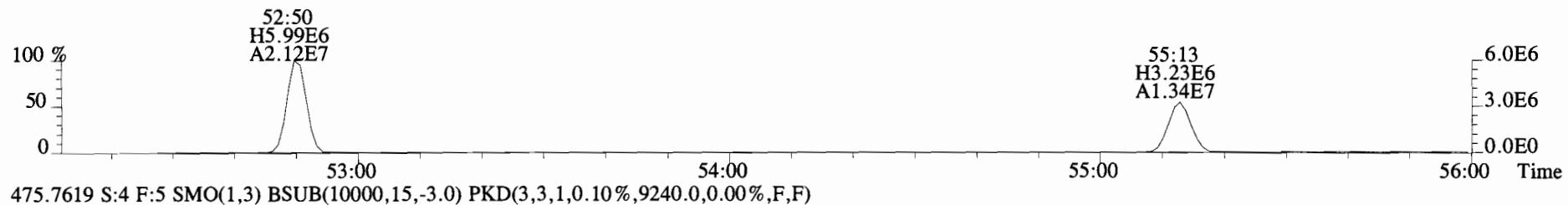
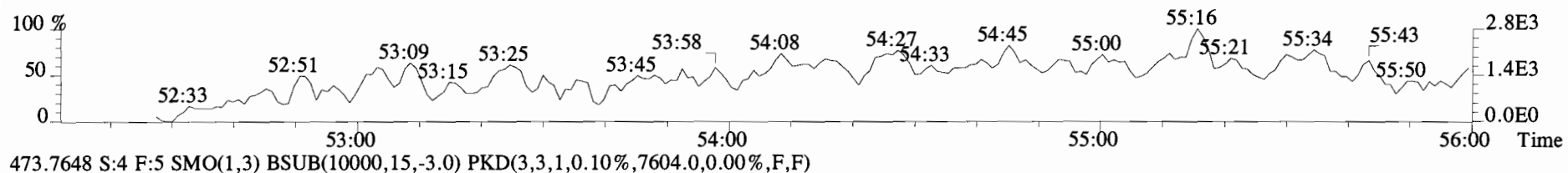
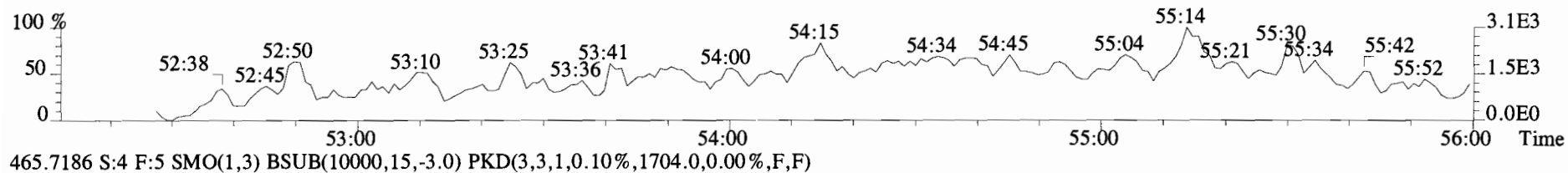
File:140910E2 #1-557 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



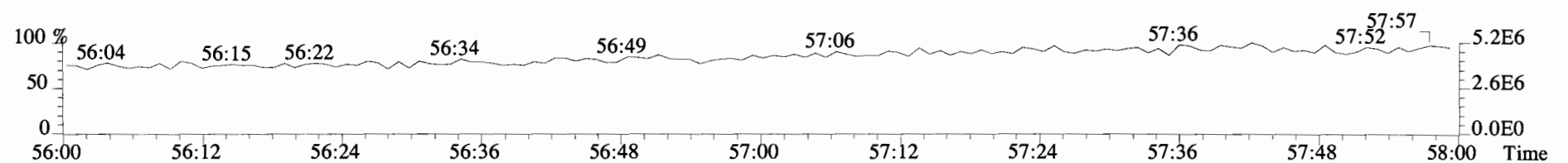
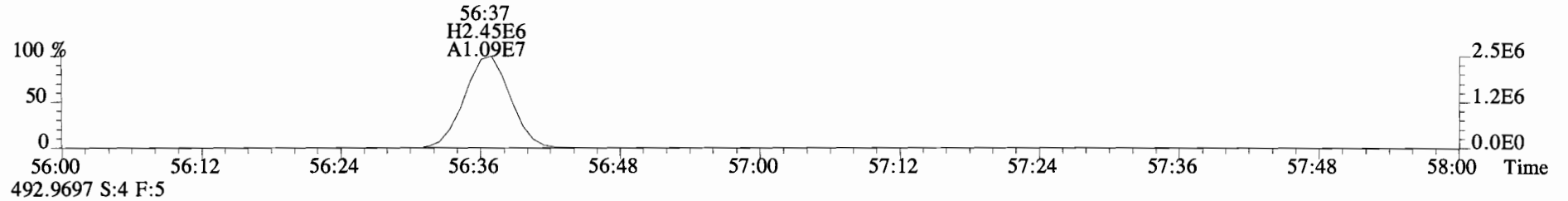
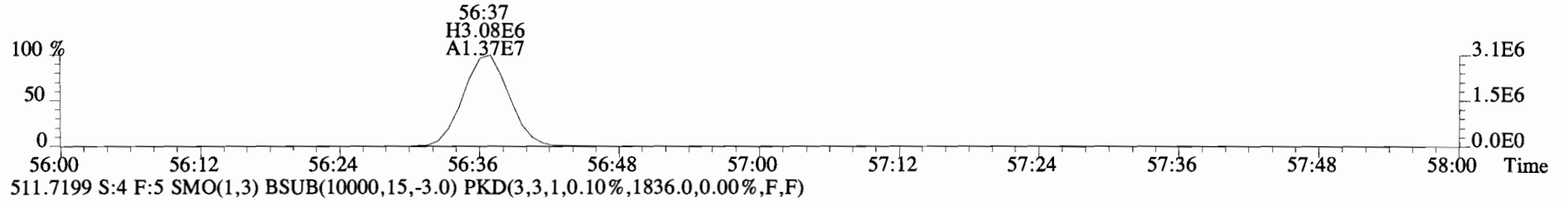
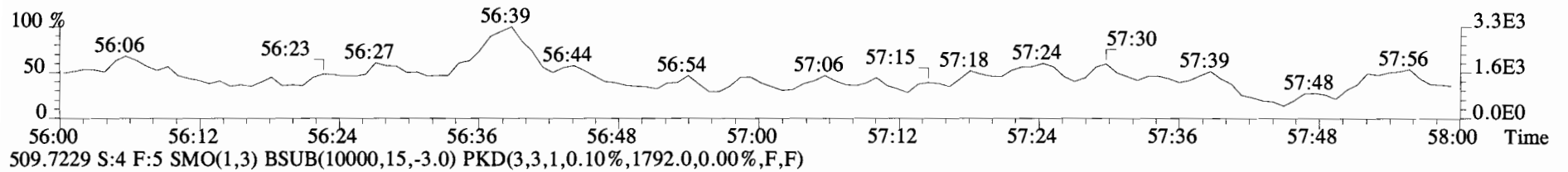
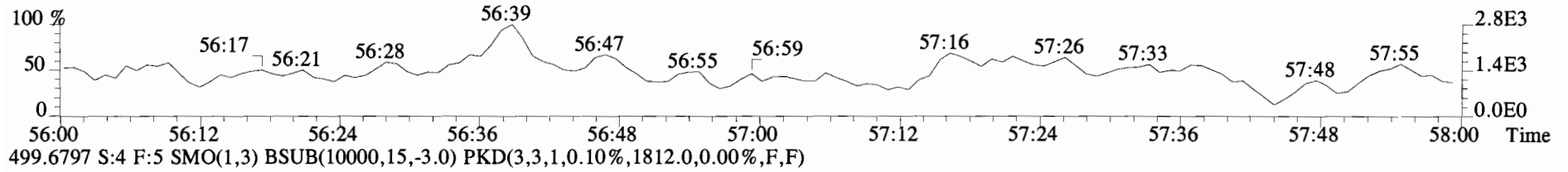
File:140910E2 #1-440 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1776.0,0.00%,F,F)



File:140910E2 #1-440 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1836.0,0.00%,F,F)



File:140910E2 #1-440 Acq:11-SEP-2014 03:13:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BLK1 Method Blank 1 Exp:PCB\_ZB1  
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1672.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B4I0025-BS1

Matrix : AQUEOUS Ext. Date: 9-9-14 Analysis Date: 11-SEP-14 Time: 01:05:26

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	50.8	30.0-67.5	13C-PCB-1	100	86.7	15-145	13C-PCB-79	100	106.3	40-145
PCB-3	50	50.9	30.0-67.5	13C-PCB-3	100	82.6	15-145	13C-PCB-178	100	85.6	40-145
PCB-4/10	200	239.2	120-270	13C-PCB-4	100	83.3	15-145				
PCB-15	100	114.5	60.0-135	13C-PCB-11	100	87.7	15-145				
PCB-19	50	57.9	30.0-67.5	13C-PCB-19	100	69.0	15-145				
PCB-37	50	55.1	30.0-67.5	13C-PCB-37	100	82.8	15-145				
PCB-54	50	55.0	30.0-67.5	13C-PCB-54	100	102.5	15-145				
PCB-81	50	59.3	30.0-67.5	13C-PCB-81	100	92.8	40-145				
PCB-77	50	59.7	30.0-67.5	13C-PCB-77	100	92.9	40-145				
PCB-104	50	60.1	30.0-67.5	13C-PCB-104	100	94.2	40-145				
PCB-123	50	61.8	30.0-67.5	13C-PCB-123	100	93.3	40-145				
PCB-106/118	100	124.4	60.0-135	13C-PCB-118	100	93.2	40-145				
PCB-114	50	57.0	30.0-67.5	13C-PCB-114	100	117.0	40-145				
PCB-105	50	60.1	30.0-67.5	13C-PCB-105	100	118.9	40-145				
PCB-126	50	58.8	30.0-67.5	13C-PCB-126	100	123.2	40-145				
PCB-155	50	61.2	30.0-67.5	13C-PCB-155	100	65.6	40-145				
PCB-167	50	57.9	30.0-67.5	13C-PCB-167	100	99.8	40-145				
PCB-156	50	56.4	30.0-67.5	13C-PCB-156	100	101.4	40-145				
PCB-157	50	57.0	30.0-67.5	13C-PCB-157	100	99.1	40-145				
PCB-169	50	57.3	30.0-67.5	13C-PCB-169	100	99.4	40-145				
PCB-188	50	58.7	30.0-67.5	13C-PCB-188	100	74.9	40-145				
PCB-189	50	62.3	30.0-67.5	13C-PCB-189	100	76.1	40-145				
PCB-202	50	58.6	30.0-67.5	13C-PCB-202	100	55.3	40-145				
PCB-205	50	59.6	30.0-67.5	13C-PCB-194	100	96.3	40-145				
PCB-208	50	54.9	30.0-67.5	13C-PCB-208	100	83.5	40-145				
PCB-206	50	54.8	30.0-67.5	13C-PCB-206	100	93.0	40-145				
PCB-209	50	58.9	30.0-67.5	13C-PCB-209	100	93.7	40-145				

Analyst: ms

Date: 9/11/14



Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	8.79e+07	2.96 y	1.25	16:13	1.001	0.996-1.006	50.8156		PCB-52/69	1.01e+08	0.77 y	1.28	31:20	1.001	0.996-1.006	113.351	
PCB-2	8.60e+07	2.96 y	1.18	18:32	0.988	0.983-0.993	53.2007		PCB-73	5.81e+07	0.77 y	1.37	31:27	1.005	1.000-1.010	60.8706	
PCB-3	8.48e+07	2.92 y	1.22	18:46	1.001	0.996-1.006	50.8552		PCB-43/49	8.70e+07	0.76 y	1.11	31:37	1.010	1.005-1.015	112.436	
									PCB-47	4.84e+07	0.75 y	1.13	31:50	1.001	0.996-1.006	58.4594	
PCB-4/10	3.03e+08	1.63 y	1.55	20:07	1.003	0.998-1.008	239.212		PCB-48/75	1.00e+08	0.76 y	1.30	31:56	1.004	0.999-1.009	104.956	
PCB-7/9	3.68e+08	1.63 y	1.27	21:51	0.870	0.865-0.873	230.429		PCB-65	5.25e+07	0.74 y	1.33	32:12	1.013	1.007-1.017	53.8375	
PCB-6	1.84e+08	1.63 y	1.26	22:29	0.895	0.890-0.899	116.000		PCB-62	5.36e+07	0.75 y	1.29	32:18	1.016	1.011-1.021	56.8358	
PCB-5/8	3.72e+08	1.64 y	1.23	22:54	0.912	0.906-0.916	239.616		PCB-44	3.95e+07	0.75 y	0.94	32:36	1.025	1.020-1.030	57.4961	
PCB-14	2.03e+08	1.63 y	1.23	23:57	0.954	0.949-0.959	112.532		PCB-42/59	1.00e+08	0.76 y	1.22	32:50	1.032	1.028-1.038	112.491	
PCB-11	1.96e+08	1.66 y	1.16	25:08	1.001	0.996-1.006	115.350		PCB-41/64/71/72	2.14e+08	0.75 y	1.31	33:25	1.051	1.046-1.056	222.830	
PCB-12/13	3.80e+08	1.63 y	1.10	25:32	1.017	1.010-1.020	235.844		PCB-68	6.07e+07	0.76 y	1.49	33:40	1.059	1.054-1.064	55.9078	
PCB-15	2.03e+08	1.65 y	1.21	25:50	1.029	1.024-1.034	114.544		PCB-40	3.44e+07	0.76 y	0.82	33:53	1.066	1.061-1.071	57.4351	
									PCB-57	5.98e+07	0.75 y	1.11	34:14	0.970	0.965-0.975	56.1200	
PCB-19	4.92e+07	1.08 y	1.30	24:09	1.001	0.996-1.006	57.8778		PCB-67	6.05e+07	0.75 y	1.07	34:32	0.978	0.974-0.984	58.9561	
PCB-30	7.11e+07	1.07 y	1.83	25:01	1.037	1.032-1.042	59.1764		PCB-58	5.87e+07	0.77 y	1.10	34:39	0.982	0.977-0.987	55.7239	
PCB-18	5.11e+07	1.08 y	0.86	25:45	0.954	0.949-0.959	57.6762		PCB-63	6.17e+07	0.75 y	1.12	34:49	0.986	0.982-0.992	57.7167	
PCB-17	5.29e+07	1.08 y	0.90	25:56	0.960	0.955-0.965	57.0522		PCB-74	6.60e+07	0.75 y	1.20	35:06	0.994	0.990-1.000	57.3750	
PCB-24/27	1.46e+08	1.07 y	1.18	26:30	0.981	0.976-0.986	120.217		PCB-61/70	1.17e+08	0.76 y	1.08	35:16	0.999	0.994-1.004	113.226	
PCB-16/32	1.24e+08	1.08 y	1.03	27:00	1.000	0.995-1.005	116.971		PCB-76/66	1.25e+08	0.76 y	1.14	35:29	1.005	1.001-1.011	115.196	
PCB-34	7.51e+07	1.05 y	1.26	27:46	0.960	0.956-0.966	57.8699		PCB-80	7.07e+07	0.77 y	1.28	35:43	1.000	0.996-1.006	57.1415	
PCB-23	7.59e+07	1.05 y	1.31	27:52	0.964	0.959-0.969	56.2553		PCB-55	6.18e+07	0.76 y	1.11	36:03	1.010	1.005-1.015	57.4852	
PCB-29	7.70e+07	1.05 y	1.33	28:07	0.972	0.967-0.977	56.3182		PCB-56/60	1.17e+08	0.75 y	1.09	36:33	1.024	1.018-1.028	111.420	
PCB-26	7.49e+07	1.05 y	1.29	28:19	0.979	0.974-0.984	56.3884		PCB-79	6.35e+07	0.77 y	1.12	37:35	1.053	1.048-1.058	58.4000	
PCB-25	7.69e+07	1.06 y	1.34	28:28	0.984	0.980-0.990	55.6309		PCB-78	6.15e+07	0.78 y	1.24	38:17	0.987	0.982-0.992	60.4239	
PCB-31	7.58e+07	1.04 y	1.42	28:50	0.997	0.992-1.002	51.9172		PCB-81	6.74e+07	0.77 y	1.38	38:48	1.000	0.995-1.005	59.2764	
PCB-28	7.73e+07	1.04 y	1.38	28:56	1.001	0.996-1.006	54.5263		PCB-77	6.33e+07	0.79 y	1.21	39:24	1.000	0.995-1.005	59.6592	
PCB-20/21/33	2.09e+08	1.06 y	1.31	29:33	1.022	1.017-1.027	154.744										
PCB-22	7.73e+07	1.07 y	1.32	29:59	1.037	1.032-1.042	56.8628		PCB-104	3.45e+07	1.61 y	1.26	32:28	1.001	0.996-1.006	60.1166	
PCB-36	6.70e+07	1.05 y	1.38	30:35	0.934	0.929-0.939	53.0479		PCB-96	3.08e+07	1.60 y	1.09	33:43	1.039	1.034-1.044	61.8180	
PCB-39	7.27e+07	1.05 y	1.42	31:03	0.948	0.943-0.953	55.8633		PCB-103	2.64e+07	1.58 y	0.93	34:15	1.055	1.050-1.060	61.9661	
PCB-38	7.32e+07	1.05 y	1.35	31:50	0.972	0.967-0.976	58.9354		PCB-100	2.81e+07	1.57 y	1.00	34:37	1.067	1.061-1.071	61.4331	
PCB-35	6.92e+07	1.07 y	1.38	32:20	0.987	0.982-0.992	54.7898		PCB-94	2.36e+07	1.63 y	1.11	35:05	0.985	0.981-0.991	60.8018	
PCB-37	7.04e+07	1.05 y	1.39	32:46	1.001	0.996-1.006	55.1478		PCB-95/98/102	7.70e+07	1.63 y	1.21	35:33	0.999	0.994-1.004	181.261	
									PCB-93	2.38e+07	1.53 y	1.13	35:41	1.002	0.998-1.008	60.2536	
PCB-54	6.07e+07	0.77 y	1.20	27:50	1.001	0.996-1.006	55.0210		PCB-88/91	4.94e+07	1.59 y	1.02	35:58	1.010	1.006-1.016	138.603	
PCB-50	4.49e+07	0.76 y	0.97	28:59	1.042	1.037-1.047	50.4524		PCB-121	3.26e+07	1.61 y	1.90	36:05	1.014	1.009-1.019	48.9783	
PCB-53	4.58e+07	0.75 y	1.19	29:38	0.947	0.941-0.951	55.4049		PCB-84/92	4.70e+07	1.58 y	1.05	36:54	0.990	0.986-0.996	120.893	
PCB-51	4.76e+07	0.76 y	1.15	29:57	0.957	0.952-0.962	59.4331		PCB-89	2.35e+07	1.59 y	1.02	37:05	0.995	0.991-1.001	62.4077	
PCB-45	3.82e+07	0.75 y	0.97	30:23	0.971	0.966-0.976	56.8604										
PCB-46	3.74e+07	0.76 y	0.95	30:53	0.987	0.982-0.992	56.5916										

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by  
Analyst: M

Date: 9/11/14

Reviewed

by  
Analyst: AFC

Date: 9/18/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	5.21e+07	1.59	y	1.19	37:16	1.000	0.996-1.006	118.555	PCB-133/142	6.89e+07	1.23	y	0.95	42:10	0.982	0.977-0.987	109.103
PCB-113	3.15e+07	1.59	y	1.35	37:30	1.006	1.002-1.012	63.1130	PCB-131	3.40e+07	1.24	y	0.91	42:20	0.986	0.981-0.991	55.7614
PCB-99	2.74e+07	1.60	y	1.29	37:36	1.009	1.005-1.015	57.4925	PCB-146/165	8.64e+07	1.23	y	1.16	42:32	0.990	0.986-0.996	111.940
PCB-119	3.43e+07	1.59	y	1.72	38:03	0.987	0.982-0.992	61.9562	PCB-132/161	8.35e+07	1.24	y	1.11	42:47	0.996	0.992-1.002	112.372
PCB-108/112	5.19e+07	1.60	y	1.29	38:13	0.991	0.986-0.996	125.458	PCB-153	4.56e+07	1.26	y	1.18	42:58	1.000	0.995-1.005	57.9108
PCB-83	3.13e+07	1.60	y	1.52	38:23	0.996	0.991-1.001	64.0622	PCB-168	5.13e+07	1.25	y	1.37	43:11	1.005	1.000-1.010	56.1196
PCB-97	2.51e+07	1.61	y	1.25	38:34	1.000	0.996-1.006	62.6542	PCB-141	3.62e+07	1.25	y	0.97	43:42	1.000	0.996-1.005	57.2532
PCB-86	1.83e+07	1.55	y	1.02	38:43	1.004	1.000-1.010	55.7047	PCB-137	4.20e+07	1.23	y	1.07	44:05	1.009	1.004-1.014	60.3388
B-87/117/125	9.05e+07	1.61	y	1.56	38:50	1.007	1.002-1.012	180.661	PCB-130	3.60e+07	1.25	y	0.85	44:11	1.011	1.007-1.017	65.3939
PCB-111/115	6.49e+07	1.58	y	1.75	38:59	1.011	1.007-1.017	115.215	PCB-138/163/164	1.36e+08	1.26	y	1.23	44:34	1.001	0.996-1.006	174.098
PCB-85/116	5.43e+07	1.59	y	1.30	39:07	1.015	1.010-1.020	129.840	PCB-158/160	9.94e+07	1.24	y	1.29	44:49	1.007	1.001-1.011	121.031
PCB-120	3.40e+07	1.56	y	1.78	39:22	1.021	1.016-1.026	59.3366	PCB-129	3.33e+07	1.24	y	0.92	45:03	1.012	1.007-1.017	56.5396
PCB-110	3.33e+07	1.59	y	1.68	39:30	1.025	1.020-1.030	61.6920	PCB-166	4.85e+07	1.26	y	1.12	45:29	0.993	0.988-0.998	59.1941
PCB-82	1.95e+07	1.59	y	0.74	40:08	0.976	0.972-0.982	61.3503	PCB-159	4.99e+07	1.25	y	1.16	45:49	1.000	0.995-1.005	58.2697
PCB-124	3.57e+07	1.58	y	1.32	40:48	0.993	0.988-0.998	62.5929	PCB-128/162	8.48e+07	1.25	y	1.02	46:06	1.007	1.002-1.012	113.197
PCB-107/109	6.87e+07	1.59	y	1.22	40:56	0.996	0.991-1.001	130.322	PCB-167	4.90e+07	1.27	y	1.06	46:29	1.000	0.995-1.005	57.8730
PCB-123	3.25e+07	1.59	y	1.22	41:08	1.001	0.995-1.005	61.8172	PCB-156	5.10e+07	1.28	y	1.18	47:48	1.000	0.995-1.005	56.4034
PCB-106/118	6.81e+07	1.60	y	1.22	41:19	1.001	0.996-1.006	124.356	PCB-157	4.85e+07	1.25	y	1.08	48:04	1.000	0.995-1.005	56.9661
PCB-114	6.60e+07	1.64	y	1.36	41:56	1.000	0.995-1.005	56.9626	PCB-169	4.64e+07	1.26	y	1.11	50:13	1.001	0.995-1.005	57.3190
PCB-122	6.48e+07	1.68	y	1.24	42:05	1.004	0.999-1.009	61.2769									
PCB-105	6.87e+07	1.61	y	1.28	42:49	1.001	0.995-1.005	60.0946	PCB-188	3.50e+07	1.07	y	1.40	42:36	1.000	0.995-1.005	58.7099
PCB-127	6.53e+07	1.62	y	1.14	43:08	1.000	0.995-1.005	58.3531	PCB-184	3.20e+07	1.08	y	1.24	43:03	1.011	1.006-1.016	60.9011
PCB-126	6.54e+07	1.64	y	1.28	45:03	1.000	0.995-1.005	58.8138	PCB-179	3.37e+07	1.08	y	1.30	43:50	1.029	1.024-1.034	60.8879
									PCB-176	3.50e+07	1.06	y	1.36	44:18	1.040	1.035-1.045	60.5255
PCB-155	1.85e+07	1.28	y	1.14	36:50	1.001	0.966-1.006	61.1726	PCB-186	3.36e+07	1.08	y	1.28	44:54	1.054	1.049-1.059	62.1595
PCB-150	1.71e+07	1.26	y	1.06	38:05	1.035	1.030-1.040	60.5637	PCB-178	2.42e+07	1.05	y	0.94	45:23	1.066	1.061-1.071	60.7693
PCB-152	1.69e+07	1.28	y	1.10	38:34	1.048	1.043-1.053	57.9360	PCB-175	2.60e+07	1.06	y	0.97	45:44	1.074	1.069-1.079	63.2428
PCB-145	1.66e+07	1.26	y	1.09	39:00	1.060	1.055-1.065	57.1877	PCB-182/187	5.22e+07	1.07	y	1.01	45:54	1.078	1.073-1.083	121.326
PCB-136	1.73e+07	1.30	y	1.08	39:20	1.069	1.064-1.074	59.9208	PCB-183	2.72e+07	1.07	y	1.08	46:13	1.085	1.080-1.090	59.1476
PCB-148	1.16e+07	1.32	y	0.74	39:25	1.071	1.066-1.076	59.0505	PCB-185	2.48e+07	1.08	y	1.34	46:53	0.956	0.951-0.961	58.6110
PCB-154	1.39e+07	1.27	y	0.88	39:55	1.085	1.079-1.089	59.1227	PCB-174	2.51e+07	1.07	y	1.34	47:14	0.963	0.958-0.968	59.3926
PCB-151	1.27e+07	1.30	y	0.81	40:33	1.102	1.097-1.107	58.8604	PCB-181	2.61e+07	1.07	y	1.36	47:21	0.965	0.961-0.971	60.8037
PCB-135	1.22e+07	1.30	y	0.78	40:46	1.108	1.101-1.113	58.9418	PCB-177	2.33e+07	1.08	y	1.24	47:31	0.968	0.964-0.974	59.5817
PCB-144	1.28e+07	1.25	y	0.82	40:52	1.111	1.105-1.116	58.8350	PCB-171	2.40e+07	1.07	y	1.31	47:49	0.975	0.970-0.980	57.8813
PCB-147	1.37e+07	1.31	y	0.83	41:00	1.114	1.011-1.120	62.1760	PCB-173	2.15e+07	1.08	y	1.16	48:15	0.983	0.979-0.989	58.8471
PCB-139/149	2.66e+07	1.28	y	0.84	41:15	1.121	1.115-1.127	118.352	PCB-172	2.30e+07	1.06	y	1.22	48:41	0.992	0.988-0.998	59.5043
PCB-140	1.24e+07	1.26	y	0.79	41:27	1.126	1.120-1.132	59.1966	PCB-192	2.96e+07	1.08	y	1.53	48:53	0.996	0.991-1.001	61.3699
PCB-134/143	6.89e+07	1.26	y	0.93	41:53	0.975	0.970-0.980	111.248	PCB-180	2.65e+07	1.07	y	1.43	49:05	1.000	0.995-1.005	58.7074

Integrations  
 by  
 RL: MONO, TRI - DECA: \_\_\_\_\_ Analyst: my  
 Date: 9/11/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	3.08e+07	1.07 y	1.65	49:17	1.004	0.999-1.009		58.9500
PCB-191	3.15e+07	1.08 y	1.67	49:32	1.010	1.004-1.014		59.5924
PCB-170	2.20e+07	1.06 y	1.50	50:35	1.001	0.995-1.005		59.0848
PCB-190	3.03e+07	1.06 y	2.02	50:45	1.004	0.998-1.008		60.3741
PCB-189	3.16e+07	1.07 y	1.54	52:04	1.000	0.995-1.005		62.2762
PCB-202	1.70e+07	0.94 y	1.04	48:01	1.000	0.995-1.005		58.6392
PCB-201	1.85e+07	0.91 y	1.10	48:30	1.010	1.006-1.016		60.1372
PCB-204	1.71e+07	0.93 y	0.99	48:39	1.014	1.009-1.019		61.7618
PCB-197	1.84e+07	0.93 y	1.07	48:57	1.020	1.015-1.025		61.5785
PCB-200	1.89e+07	0.91 y	1.02	49:51	1.039	1.032-1.044		66.5540
PCB-198	1.26e+07	0.94 y	0.74	51:10	1.066	1.058-1.068		60.7812
PCB-199	1.27e+07	0.93 y	0.73	51:17	1.068	1.060-1.070		62.3877
PCB-196/203	2.69e+07	0.92 y	0.77	51:32	1.074	1.066-1.076		124.673
PCB-195	3.62e+07	0.91 y	1.20	52:43	0.984	0.979-0.989		56.0593
PCB-194	3.80e+07	0.91 y	1.25	53:34	1.000	0.995-1.005		56.5832
PCB-205	4.53e+07	0.91 y	1.41	53:51	1.005	1.001-1.011		59.5644
PCB-208	3.42e+07	1.33 y	0.96	52:51	1.000	0.995-1.005		54.9037
PCB-207	3.43e+07	1.33 y	0.92	53:09	1.006	1.001-1.011		57.7783
PCB-206	2.38e+07	1.30 y	1.03	55:14	1.000	0.995-1.005		54.8118
PCB-209	2.75e+07	1.20 y	1.18	56:36	1.000	0.995-1.005		58.8725

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	2.59e+08	2.96 y	16:13	1.22	154.871
Total Di-PCB	2.21e+09	1.63 y	20:07	1.21	1404.97
Total Tri-PCB	4.94e+08	1.08 y	24:09	1.16	468.971
Total Tri-PCB	1.22e+09	1.05 y	27:46	1.35	914.345
Total Tetra-PCB	2.30e+09	0.77 y	27:50	1.17	2399.34
Total Penta-PCB	1.17e+09	1.61 y	32:28	1.21	2520.80
Total Penta-PCB	3.64e+08	1.64 y	41:56	1.26	326.058
Total Hexa-PCB	2.02e+08	1.28 y	36:50	0.92	831.315
Total Hexa-PCB	1.22e+09	1.26 y	41:53	1.08	1632.57
Total Hepta-PCB	6.78e+08	1.07 y	42:36	1.27	1461.49
Total Octa-PCB	1.42e+08	0.94 y	48:01	0.92	556.513
Total Octa-PCB	1.26e+08	0.91 y	52:43	1.29	181.314
Total Nona-PCB	9.41e+07	1.33 y	52:51	0.96	170.626
Total Deca-PCB	2.75e+07	1.20 y	56:36	1.18	58.8725

Sum:1383.32

Sum:2846.85

Sum:2463.88

Sum:737.826

Total PCB Conc:12932.0475090

RL: MONO, TRI - DECA: \_\_\_\_\_

Integrations  
 by  
 Analyst: mi  
 Date: 9/11/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.38e+08	3.32 y	0.89	16:12	0.628	0.622-0.628		86.7	86.7
13C-PCB-3	1.37e+08	3.34 y	0.93	18:45	0.726	0.721-0.729		82.6	82.6
13C-PCB-4	8.15e+07	1.62 y	0.55	20:03	0.777	0.772-0.780		83.3	83.3
13C-PCB-9	1.26e+08	1.60 y	0.83	21:48	0.844	0.840-0.848		85.3	85.3
13C-PCB-11	1.47e+08	1.59 y	0.94	25:07	0.973	0.968-0.978		87.7	87.7
13C-PCB-32	1.03e+08	1.11 y	0.81	27:00	1.046	1.041-1.051		70.9	70.9
13C-PCB-19	6.57e+07	1.14 y	0.53	24:08	0.935	0.929-0.939		69.0	69.0
13C-PCB-28	1.03e+08	1.05 y	0.89	28:55	1.003	0.999-1.009		87.0	87.0
13C-PCB-52	6.95e+07	0.78 y	0.71	31:18	0.857	0.853-0.861		92.8	92.8
13C-PCB-54	9.21e+07	0.80 y	0.85	27:49	0.762	0.758-0.766		102	102
13C-PCB-37	9.17e+07	1.05 y	0.83	32:45	1.136	1.131-1.143		82.8	82.8
13C-PCB-47	7.30e+07	0.78 y	0.74	31:48	0.871	0.867-0.875		92.8	92.8
13C-PCB-81	8.22e+07	0.80 y	0.84	38:48	1.063	1.057-1.067		92.8	92.8
13C-PCB-70	9.55e+07	0.81 y	0.94	35:18	0.967	0.961-0.971		95.7	95.7
13C-PCB-80	9.69e+07	0.80 y	0.96	35:42	0.978	0.972-0.982		95.2	95.2
13C-PCB-104	4.57e+07	1.67 y	1.00	32:27	0.832	0.829-0.837		94.2	94.2
13C-PCB-101	3.70e+07	1.69 y	0.79	37:16	0.956	0.951-0.961		96.6	96.6
13C-PCB-95	3.50e+07	1.68 y	0.74	35:36	0.913	0.908-0.918		96.5	96.5
13C-PCB-77	8.78e+07	0.80 y	0.89	39:23	1.079	1.073-1.083		92.9	92.9
13C-PCB-114	8.55e+07	1.61 y	1.21	41:56	0.910	0.905-0.915		117	117
13C-PCB-118	4.47e+07	1.67 y	0.98	41:17	1.059	1.054-1.064		93.2	93.2
13C-PCB-123	4.32e+07	1.66 y	0.95	41:06	1.054	1.049-1.059		93.3	93.3
13C-PCB-97	3.22e+07	1.68 y	0.69	38:33	0.989	0.984-0.994		95.8	95.8
13C-PCB-127	9.82e+07	1.59 y	1.34	43:08	0.936	0.931-0.941		121	121
13C-PCB-105	8.91e+07	1.59 y	1.24	42:47	0.928	0.924-0.934		119	119
13C-PCB-141	6.49e+07	1.30 y	1.07	43:41	0.948	0.943-0.953		100	100
13C-PCB-153	6.68e+07	1.31 y	1.11	42:57	0.932	0.927-0.937		99.1	99.1
13C-PCB-155	2.66e+07	1.32 y	0.83	36:48	0.944	0.939-0.949		65.6	65.6
13C-PCB-126	8.66e+07	1.62 y	1.16	45:02	0.977	0.972-0.982		123	123
13C-PCB-167	7.98e+07	1.29 y	1.32	46:29	1.009	1.004-1.014		99.8	99.8
13C-PCB-156	7.64e+07	1.31 y	1.24	47:47	1.037	1.032-1.042		101	101
13C-PCB-138	6.37e+07	1.27 y	1.04	44:31	0.966	0.961-0.971		101	101
13C-PCB-159	7.35e+07	1.29 y	1.20	45:48	0.994	0.989-0.999		101	101
13C-PCB-157	7.87e+07	1.31 y	1.31	48:03	1.043	1.037-1.047		99.1	99.1
13C-PCB-180	3.16e+07	0.48 y	0.67	49:04	1.065	1.059-1.069		77.4	77.4
13C-PCB-188	4.24e+07	0.47 y	0.94	42:35	0.924	0.919-0.929		74.9	74.9
13C-PCB-169	7.31e+07	1.30 y	1.22	50:11	1.089	1.082-1.092		99.4	99.4
13C-PCB-170	2.48e+07	0.48 y	0.54	50:33	1.097	1.089-1.101		76.7	76.7
13C-PCB-202	2.79e+07	0.94 y	0.83	48:00	1.042	1.036-1.046		55.3	55.3
13C-PCB-189	3.30e+07	0.46 y	0.72	52:03	1.129	1.120-1.132		76.1	76.1
13C-PCB-208	6.48e+07	0.78 y	1.12	52:50	0.981	0.976-0.986		83.5	83.5
13C-PCB-194	5.39e+07	0.93 y	0.81	53:34	0.995	0.990-1.000		96.3	96.3
13C-PCB-206	4.22e+07	0.78 y	0.66	55:13	1.026	1.021-1.031		93.0	93.0
13C-PCB-209	3.97e+07	1.23 y	0.61	56:35	1.051	1.044-1.054		93.7	93.7

CRS vs. RS									
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.13e+08	0.78 y	1.01	37:35	1.029	1.023-1.033		106	106
13C-PCB-178	3.27e+07	0.46 y	0.63	45:22	0.984	0.979-0.989		85.6	85.6

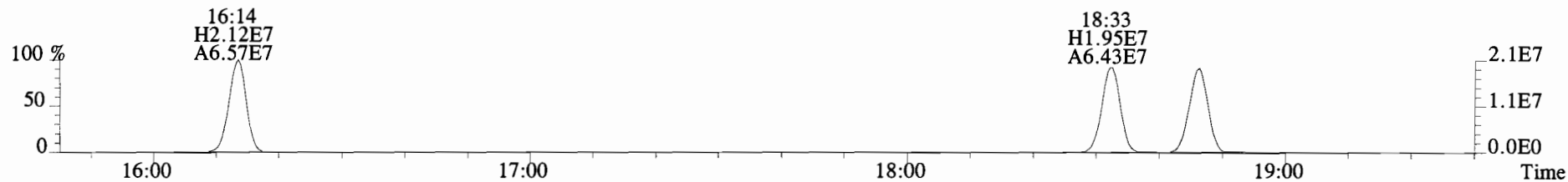
PS vs. IS									
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.13e+08	0.78 y	1.20	37:35	0.969	0.963-0.973		115	115
13C-PCB-178	3.27e+07	0.46 y	0.94	45:22	0.925	0.920-0.930		111	111

RS						
Name	Resp	RA	RRF	RT	Conc	
13C-PCB-15	1.79e+08	1.62 y	1.00	25:49	100	
13C-PCB-31	1.33e+08	1.01 y	1.00	28:49	100	
13C-PCB-60	1.06e+08	0.79 y	1.00	36:31	100	
13C-PCB-111	4.87e+07	1.65 y	1.00	38:59	100	
13C-PCB-128	6.05e+07	1.29 y	1.00	46:05	100	
13C-PCB-205	6.91e+07	0.91 y	1.00	53:50	100	

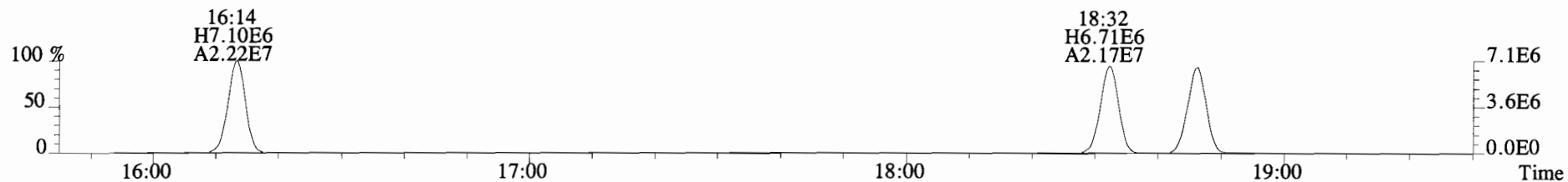
Analyst: m)

Date: 9/11/14

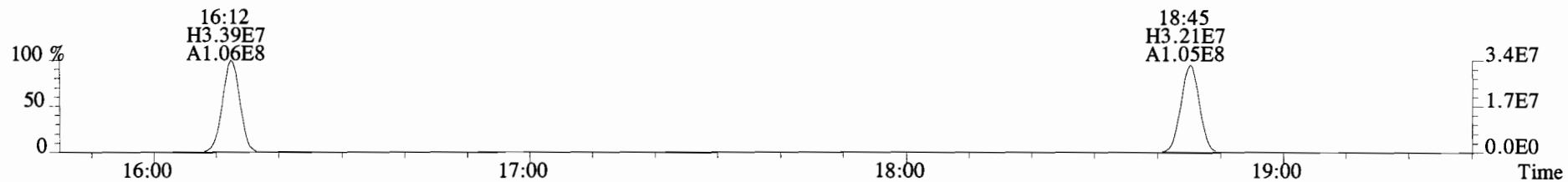
File:140910E2 #1-728 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8912.0,0.00%,F,F)



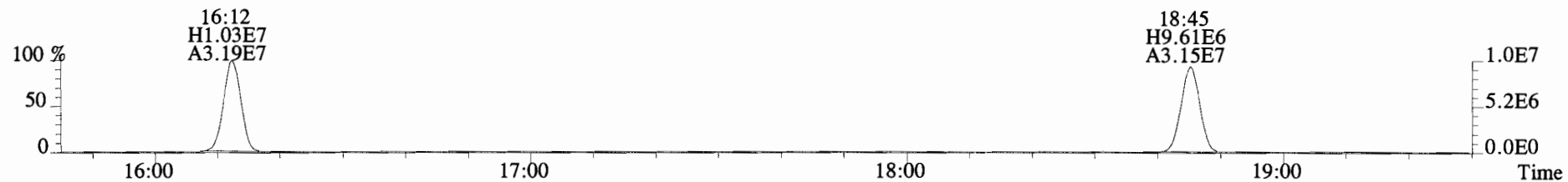
190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6808.0,0.00%,F,F)



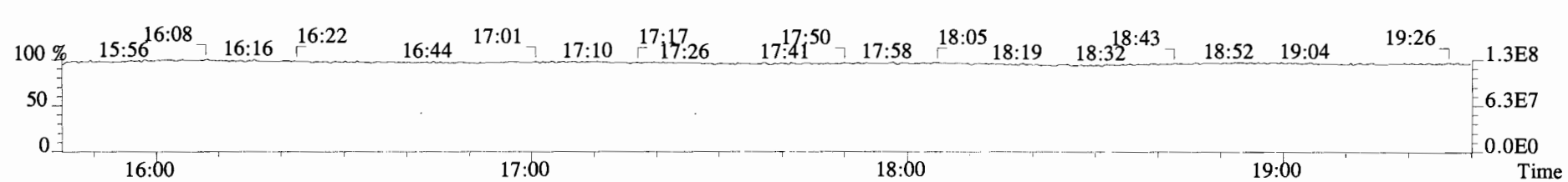
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8424.0,0.00%,F,F)



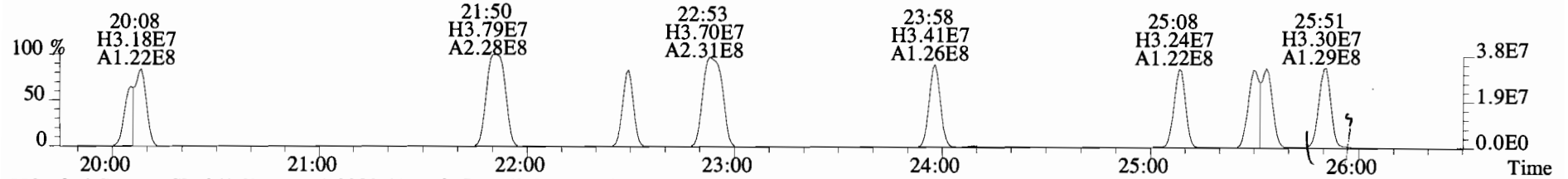
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,85792.0,0.00%,F,F)



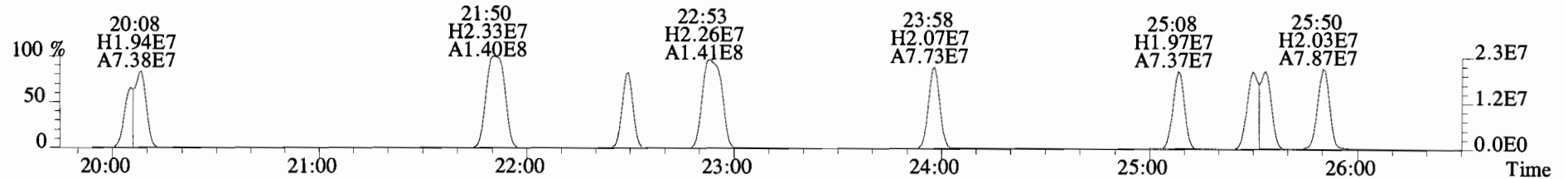
180.9880 S:2



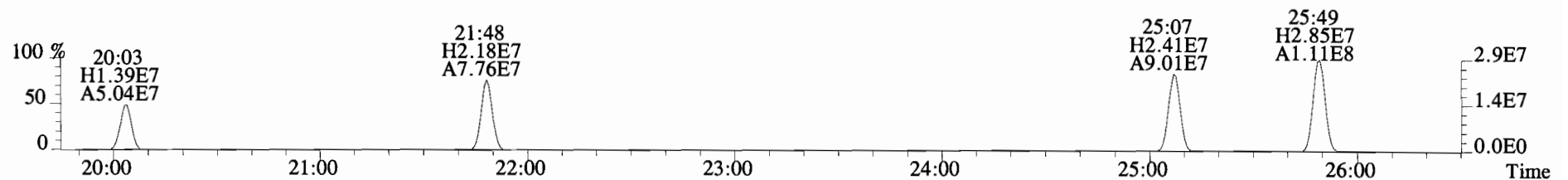
File:140910E2 #1-758 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12380.0,0.00%,F,F)



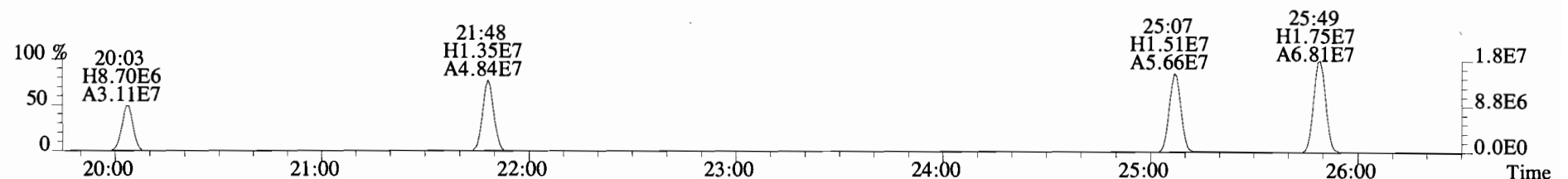
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45780.0,0.00%,F,F)



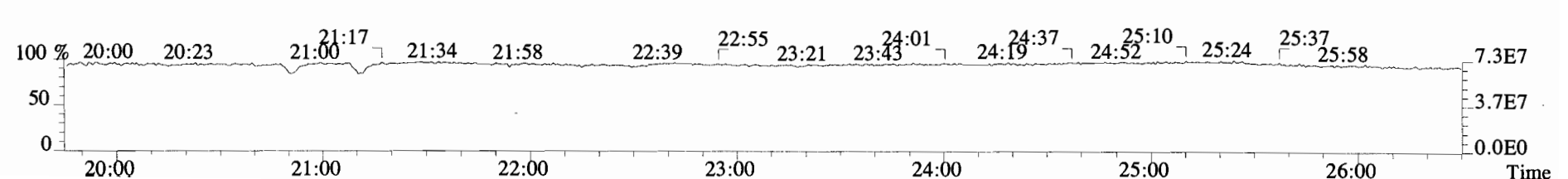
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9140.0,0.00%,F,F)



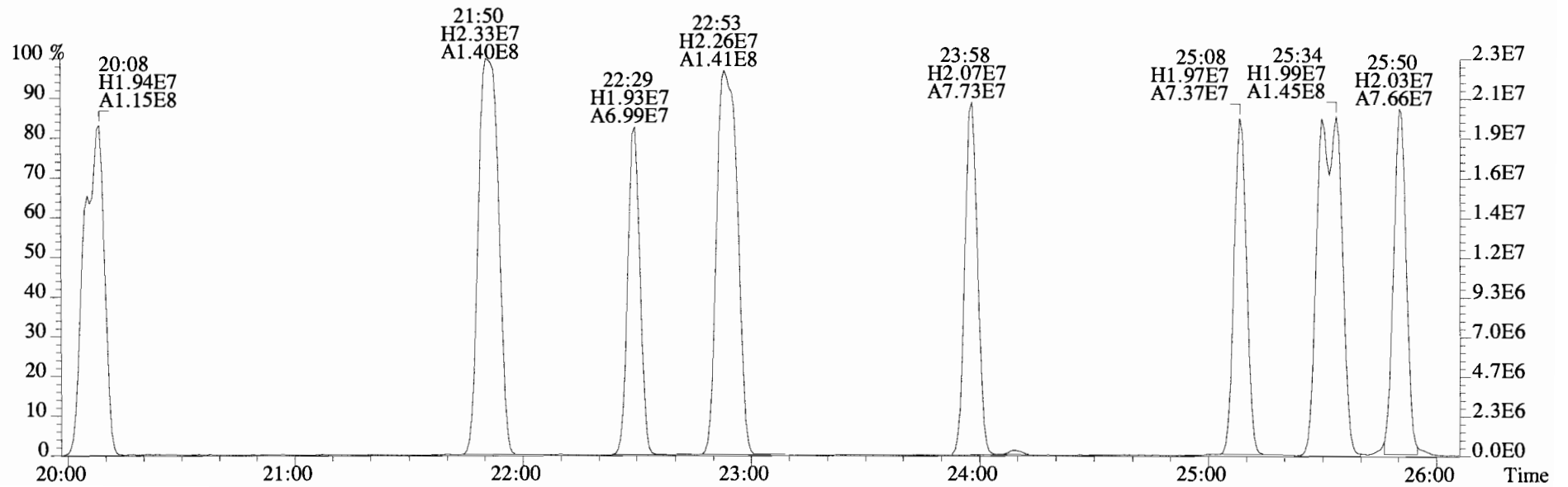
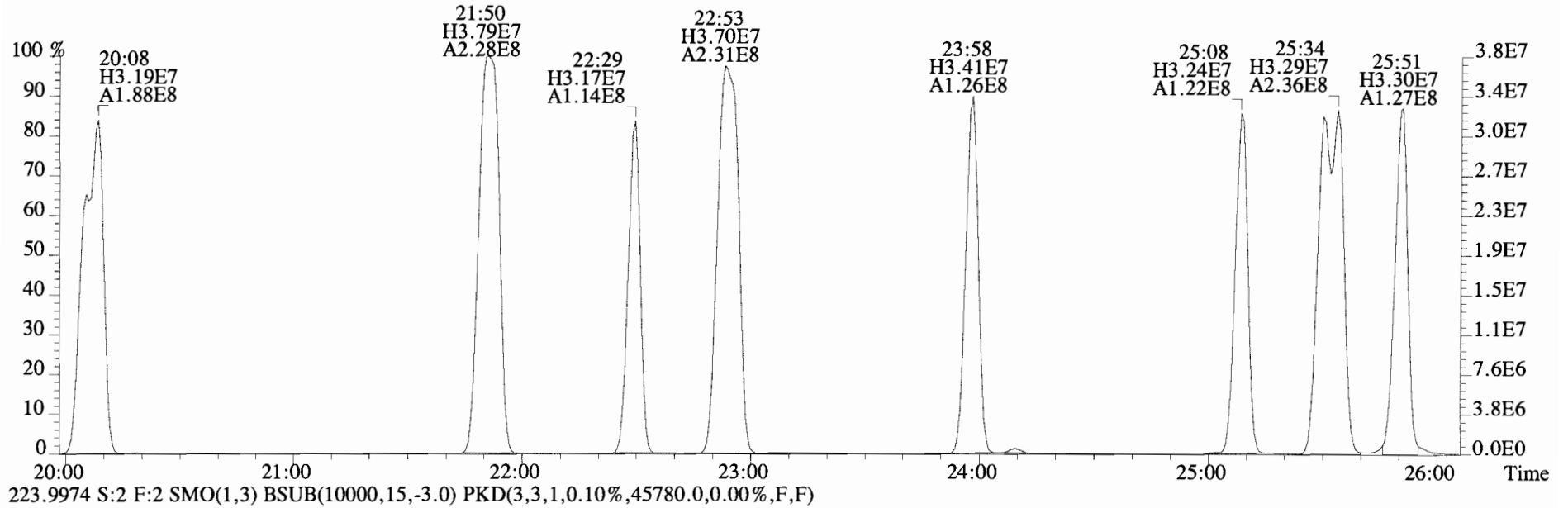
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8848.0,0.00%,F,F)



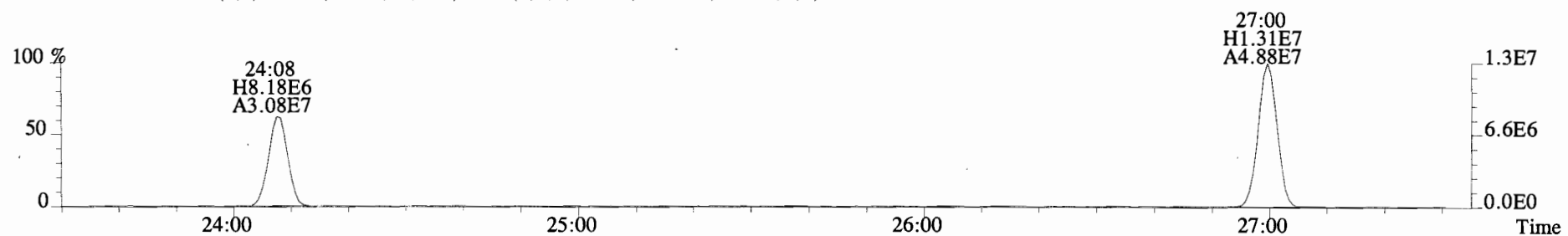
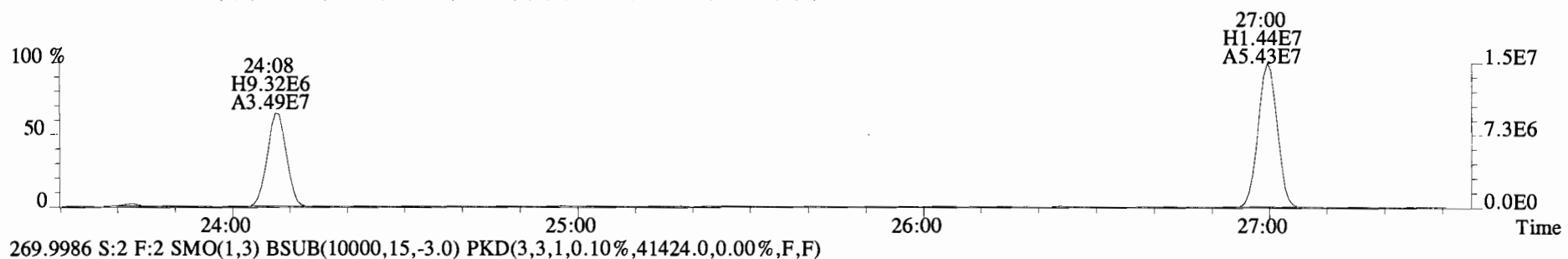
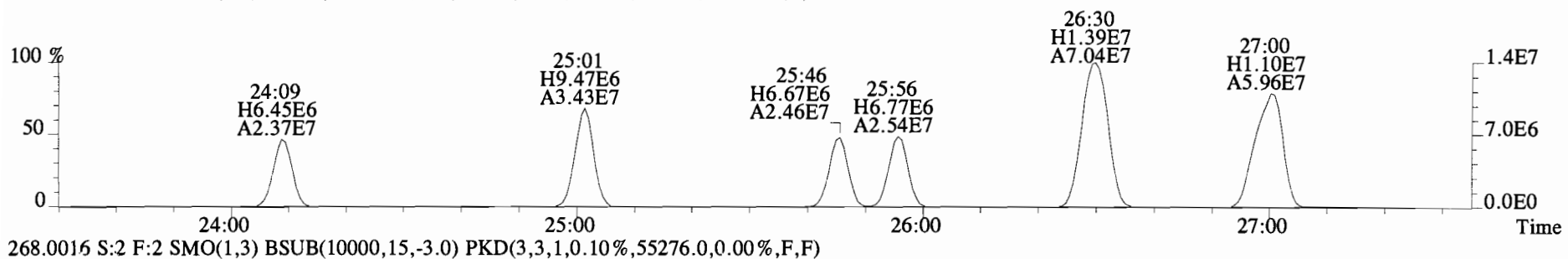
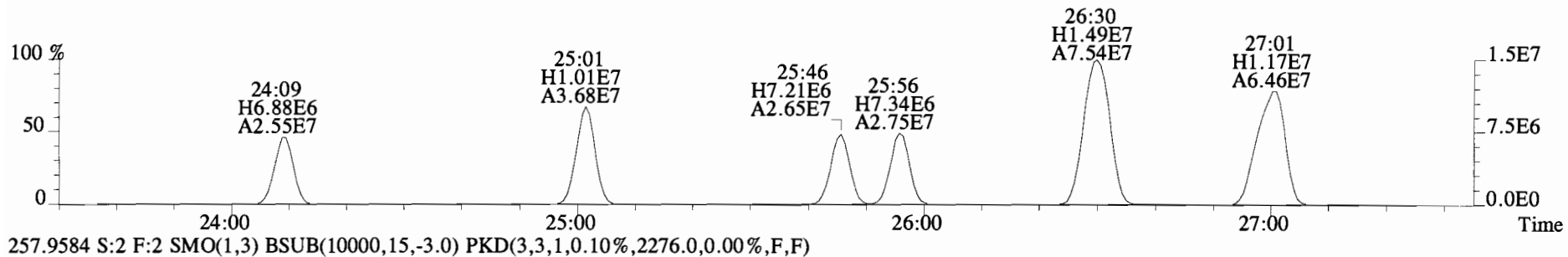
230.9856 S:2 F:2



File:140910E2 #1-758 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-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%,12380.0,0.00%,F,F)

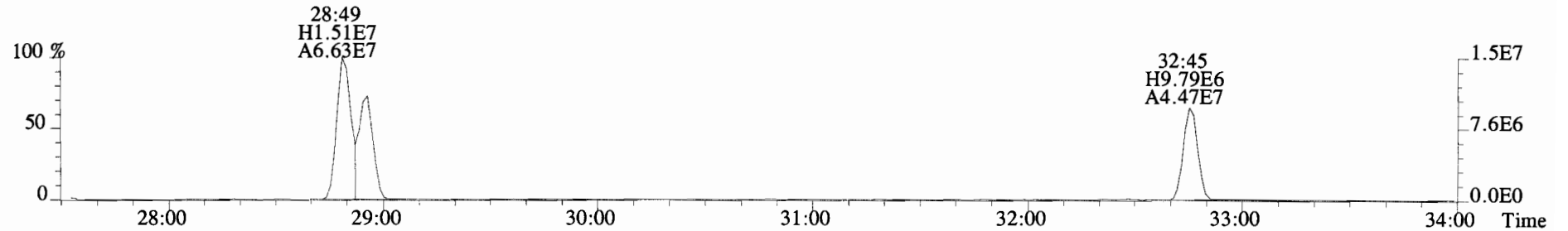
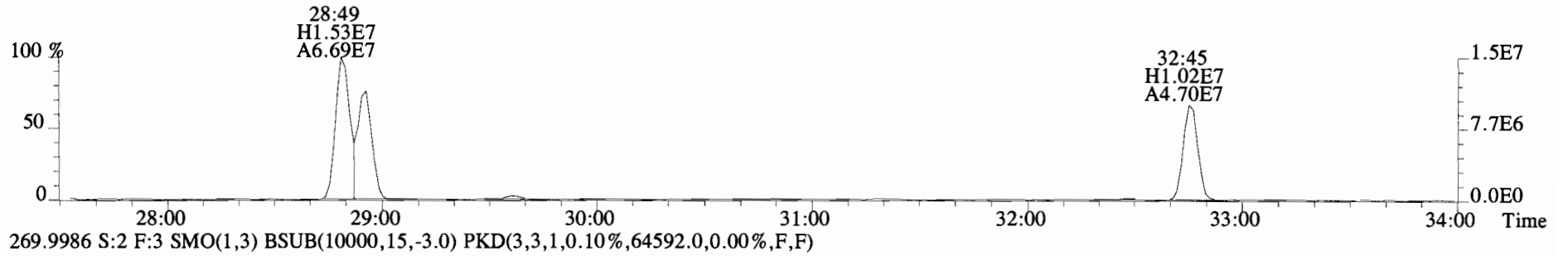
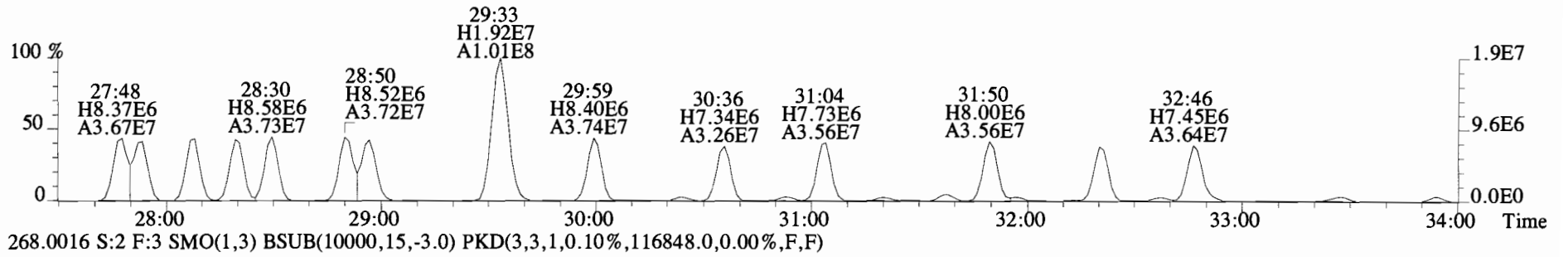
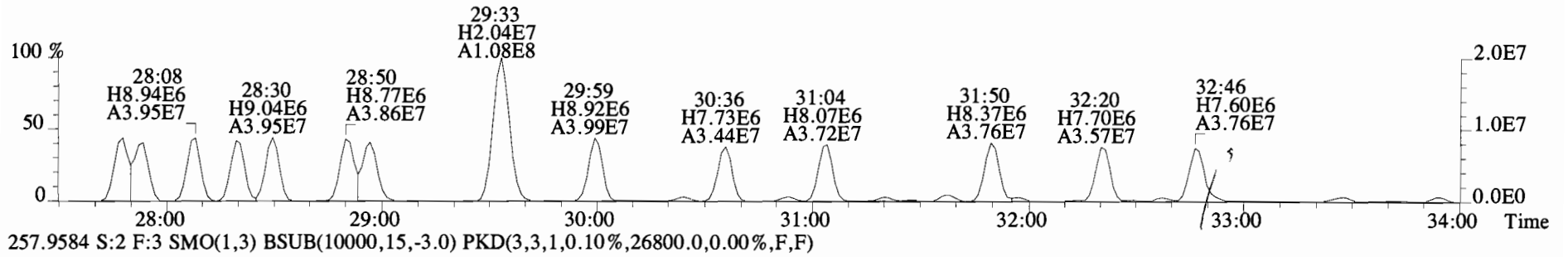


File:140910E2 #1-758 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5064.0,0.00%,F,F)

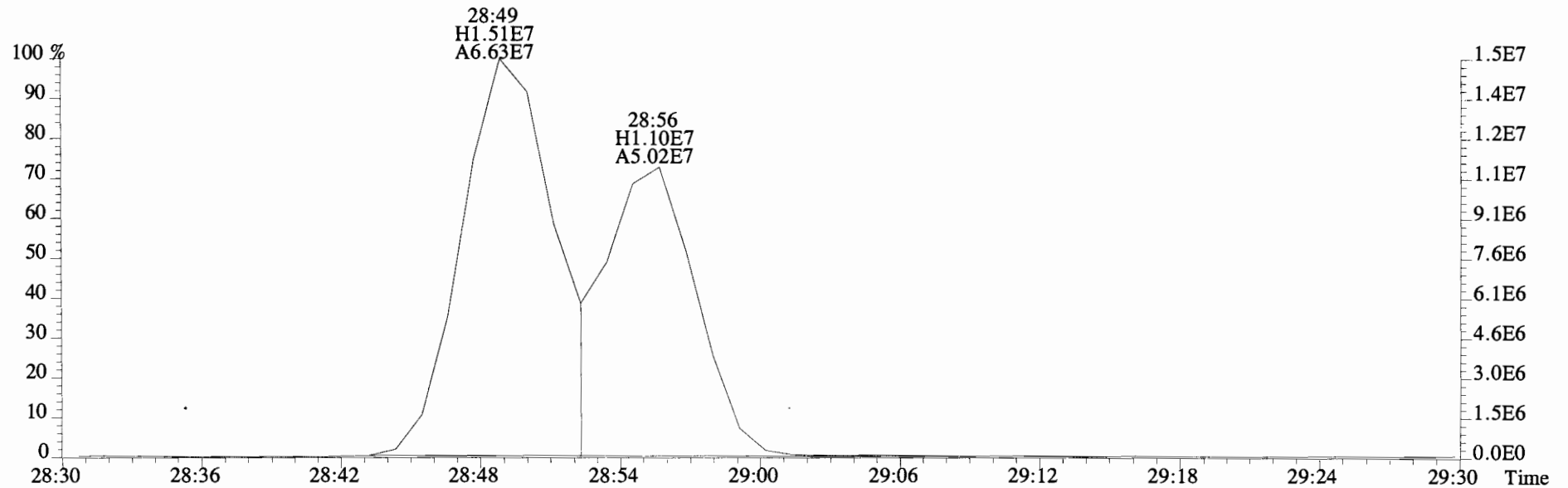
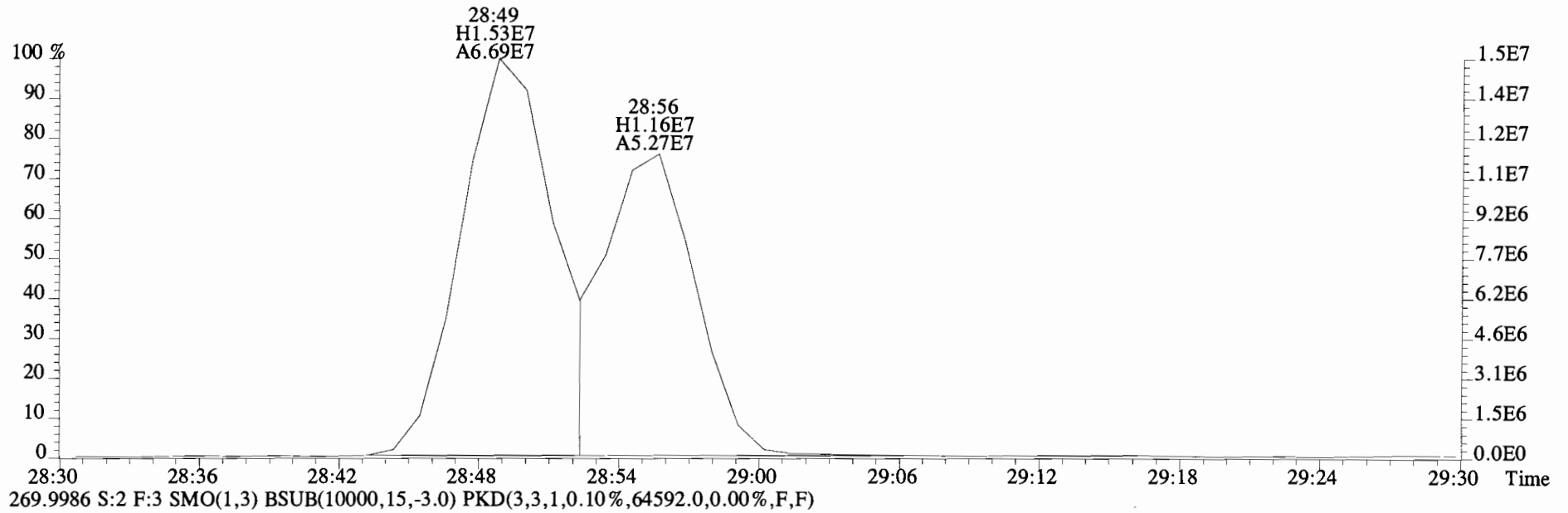




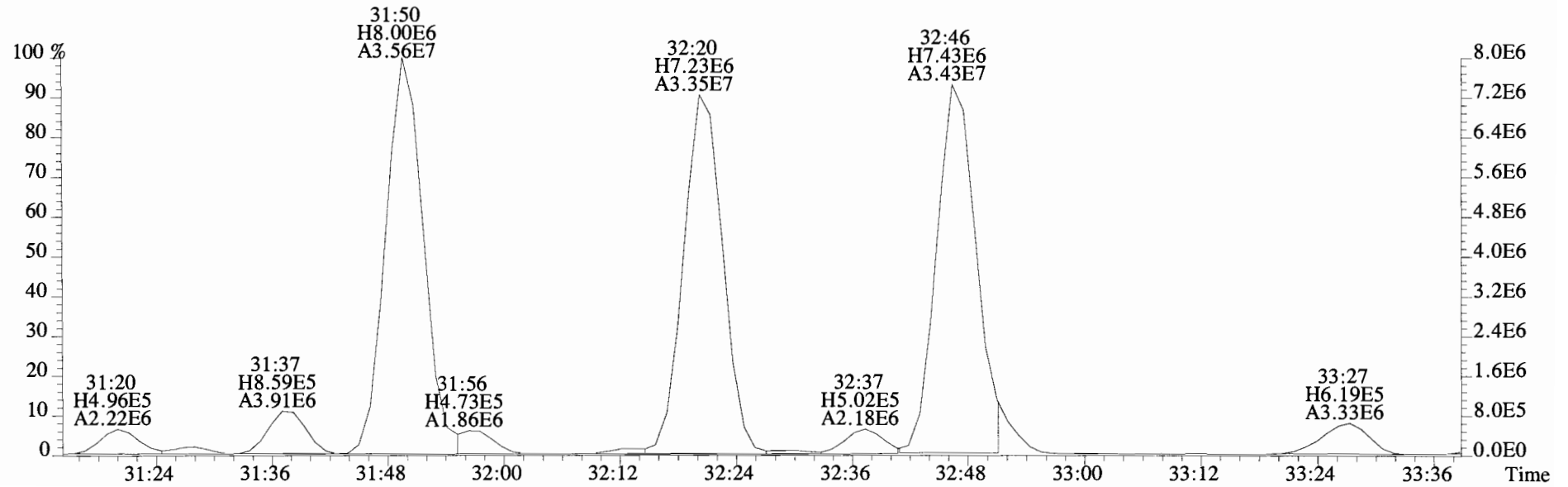
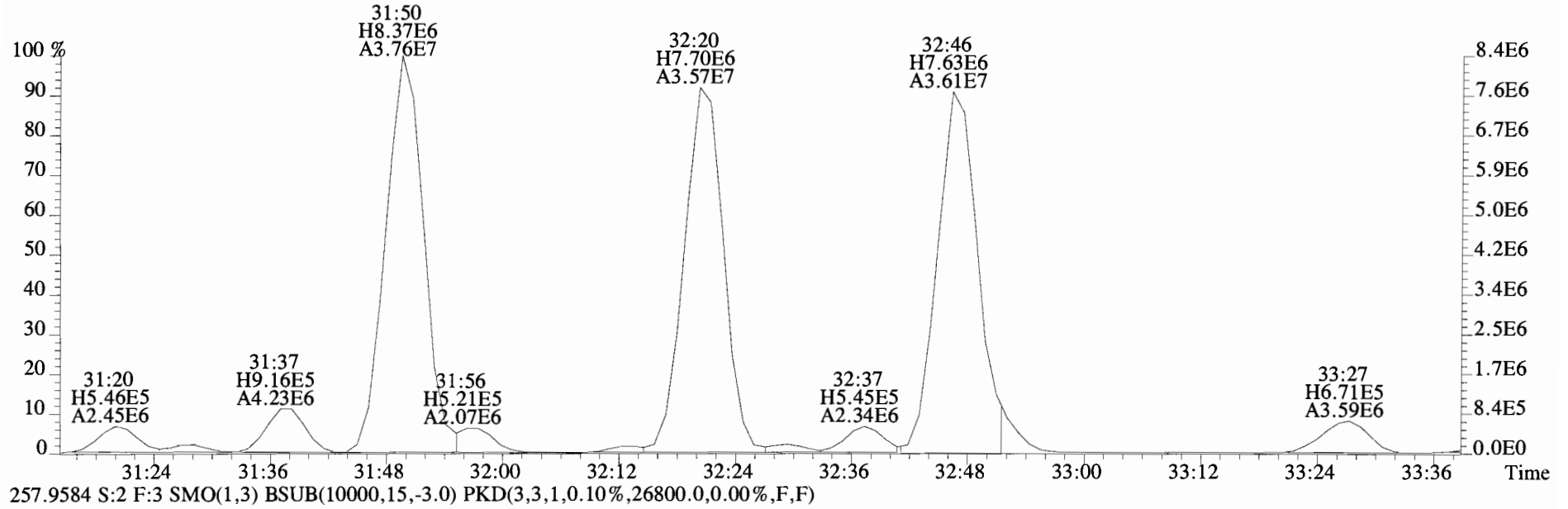
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
 255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21820.0,0.00%,F,F)



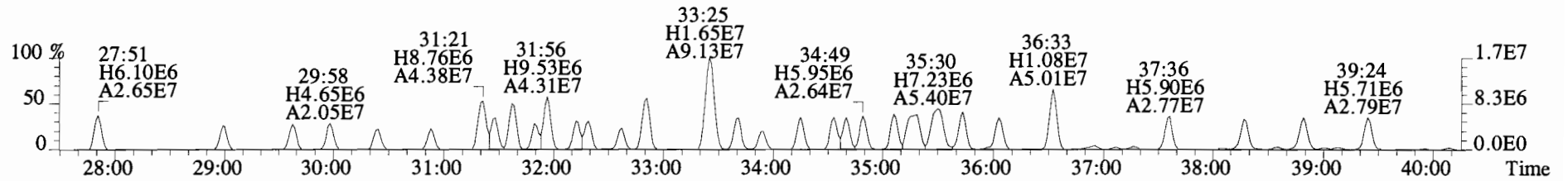
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0025-BS1 OPR 1 Exp: PCB\_ZB1  
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116848.0,0.00%,F,F)



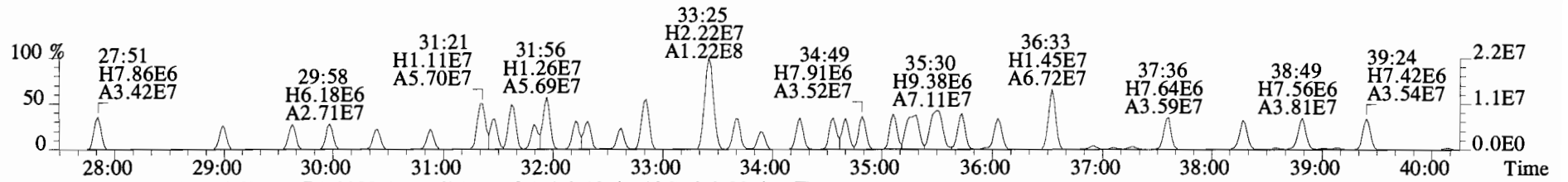
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21820.0,0.00%,F,F)



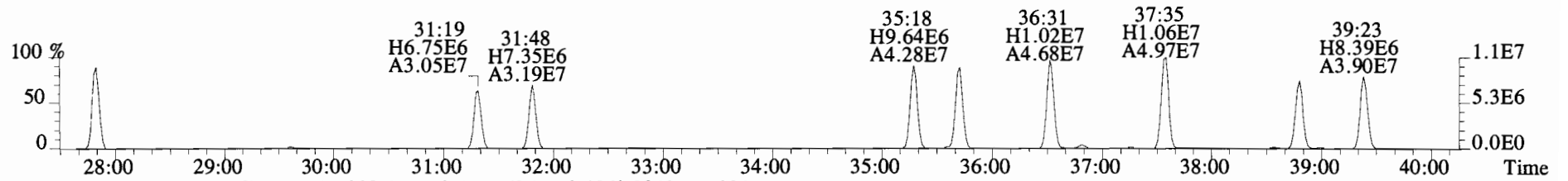
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19720.0,0.00%,F,F)



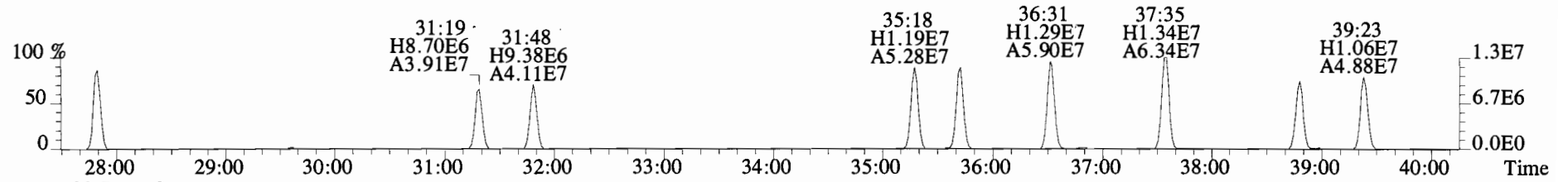
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33236.0,0.00%,F,F)



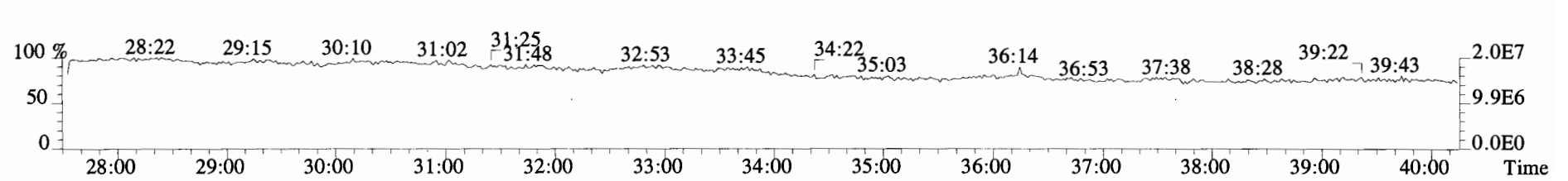
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11260.0,0.00%,F,F)



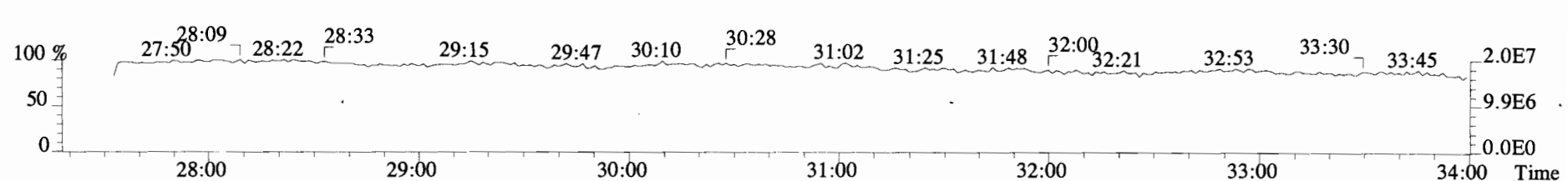
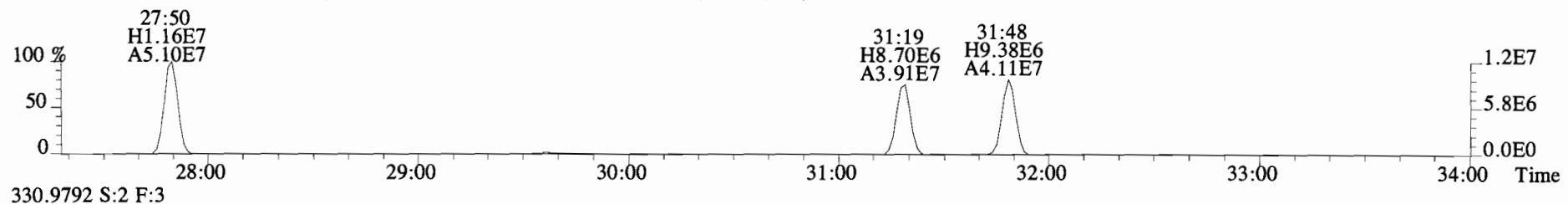
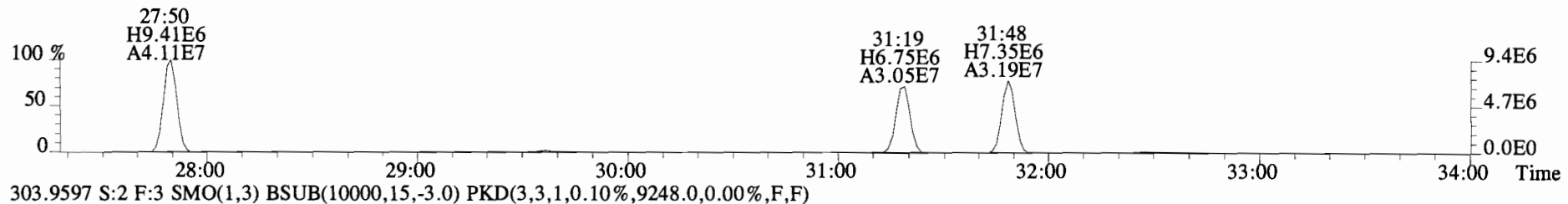
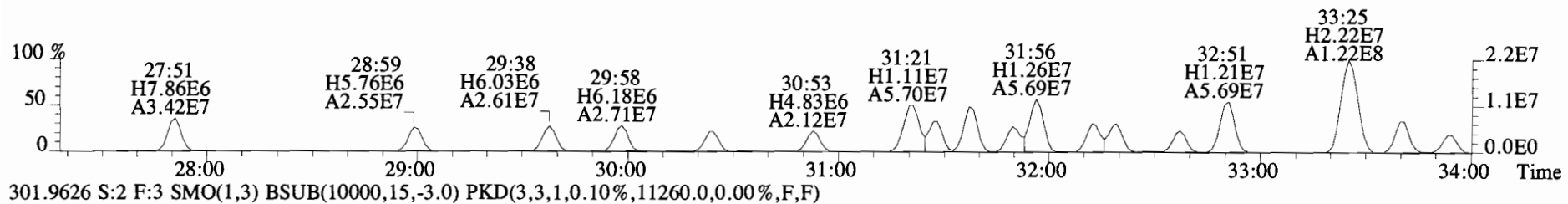
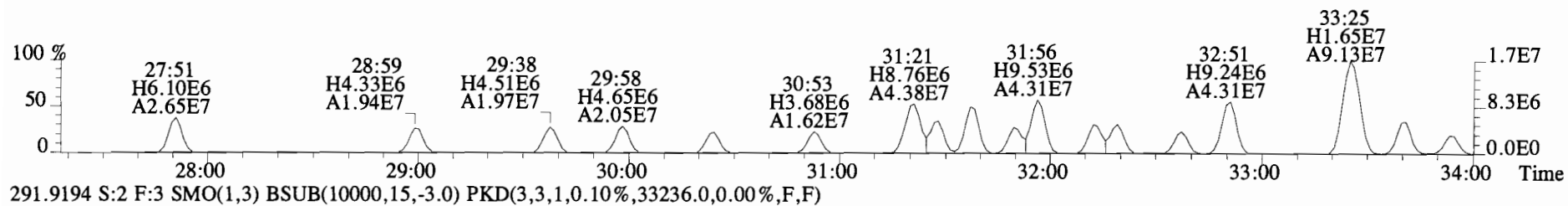
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9248.0,0.00%,F,F)



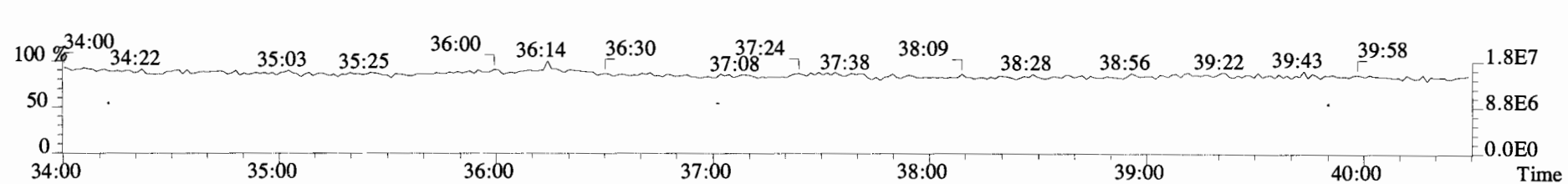
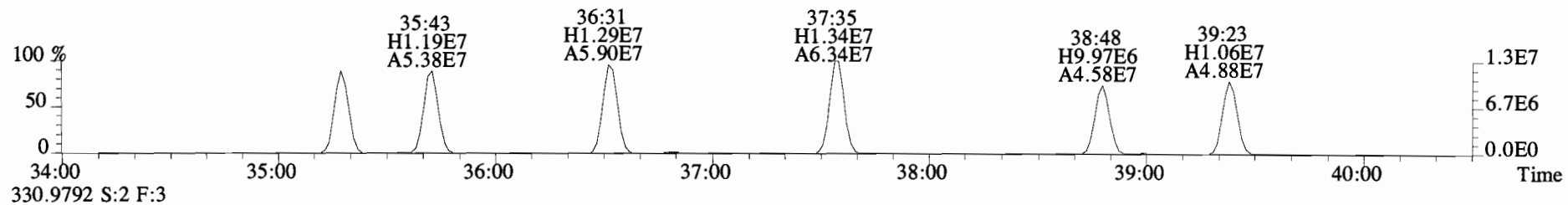
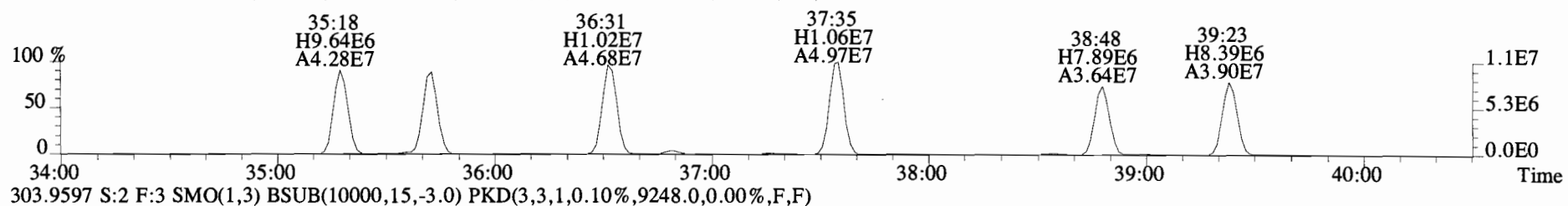
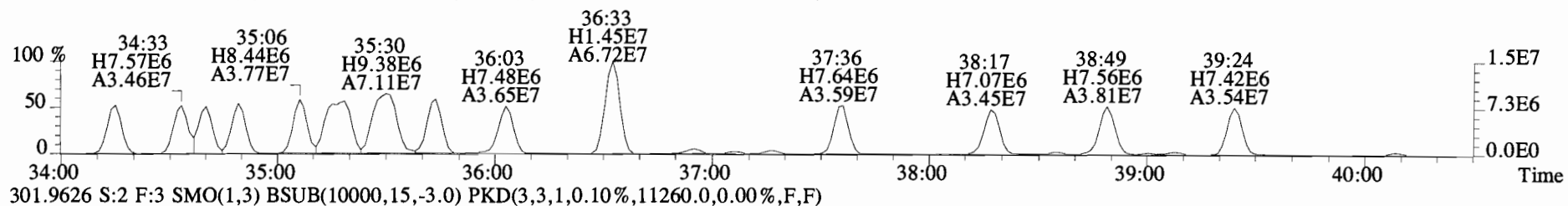
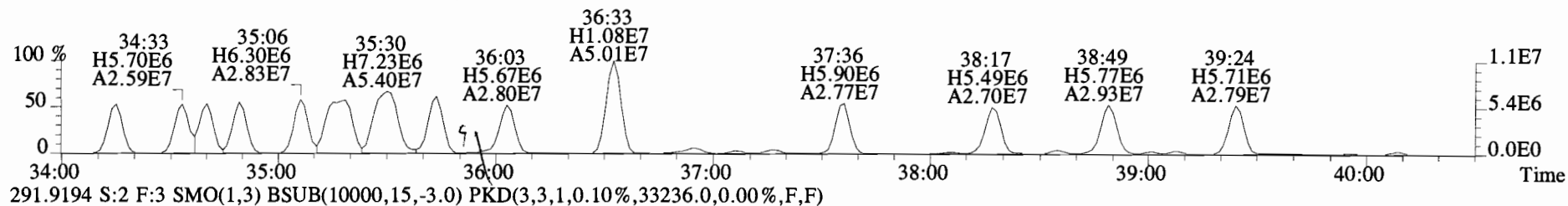
330.9792 S:2 F:3



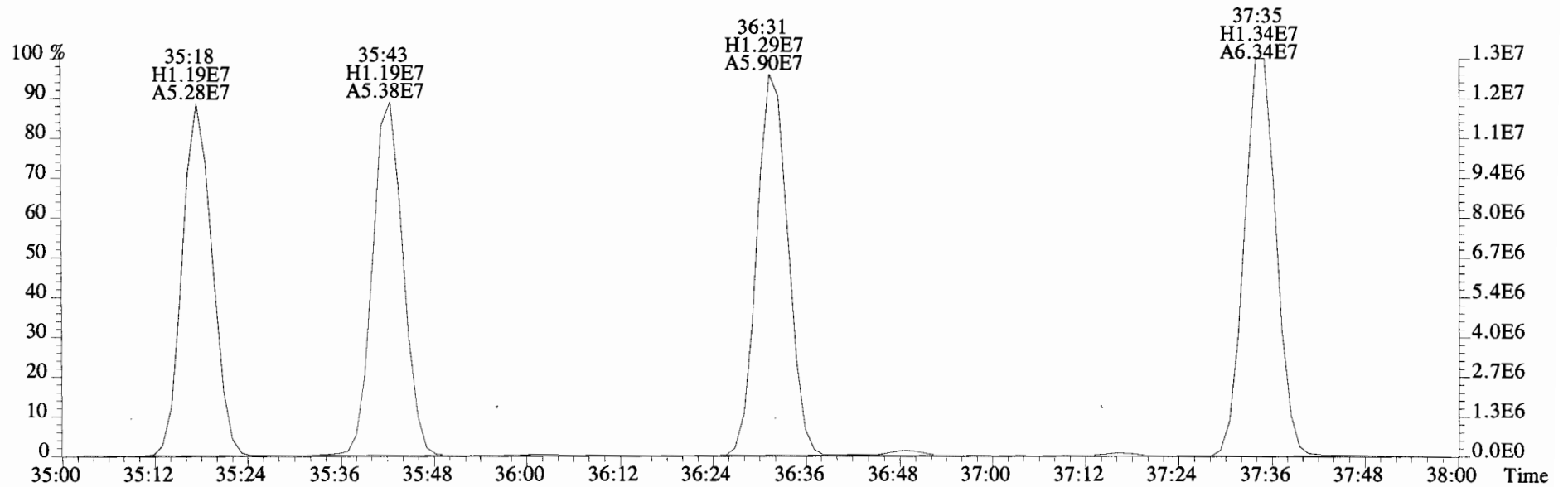
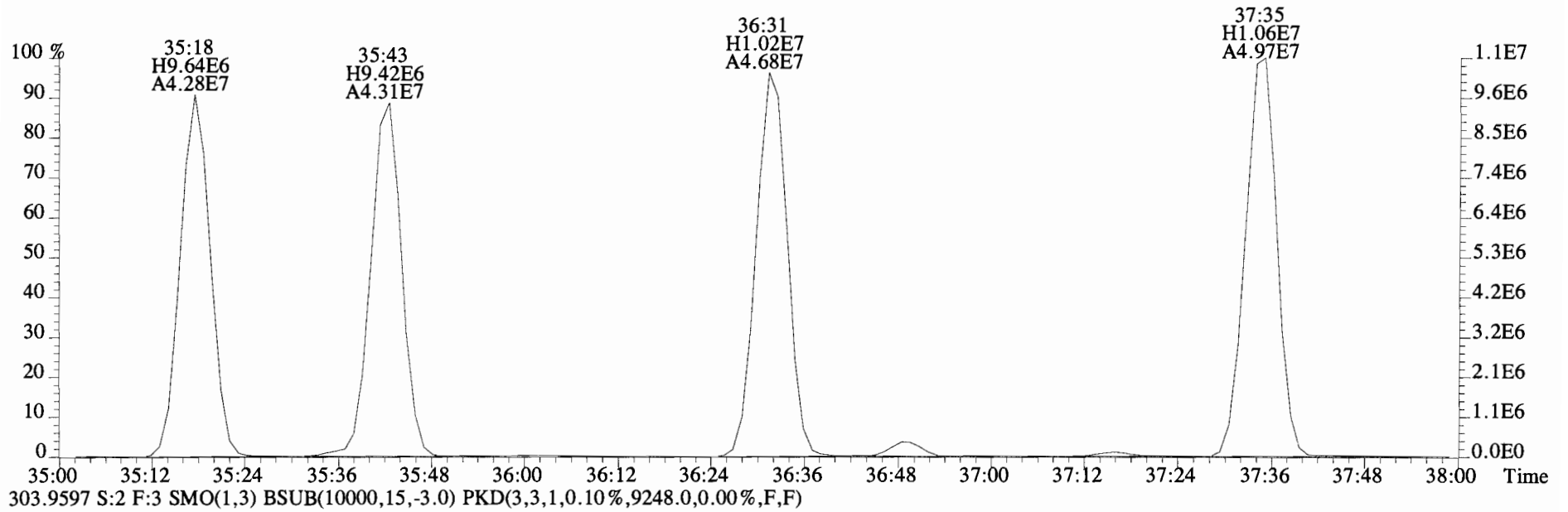
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19720.0,0.00%,F,F)



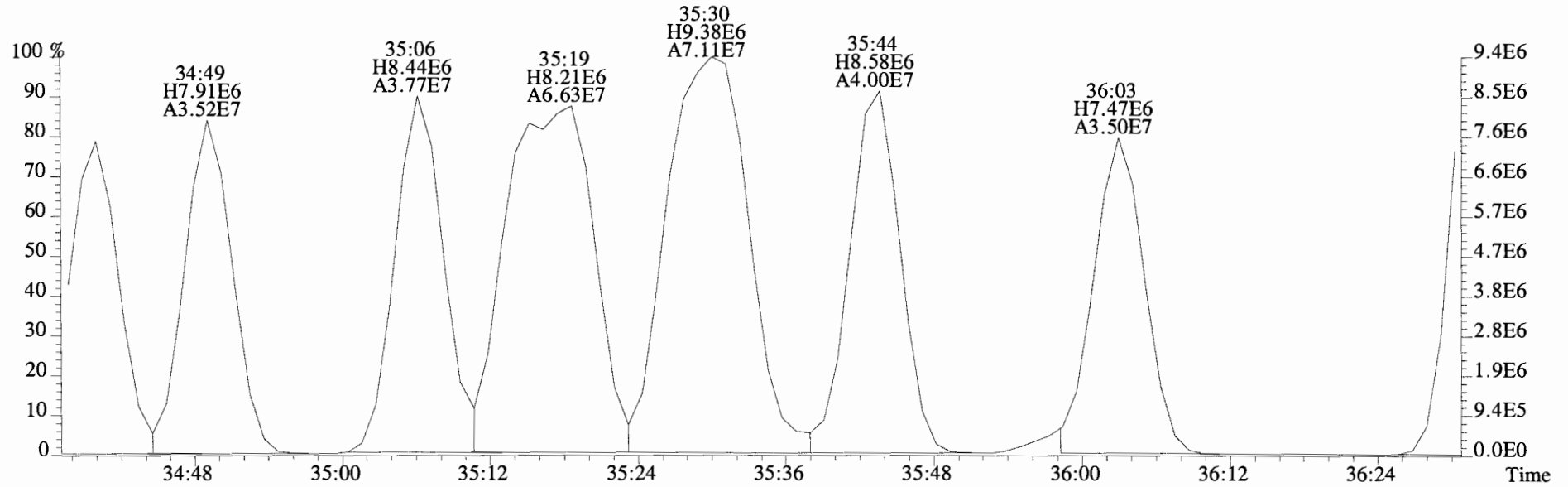
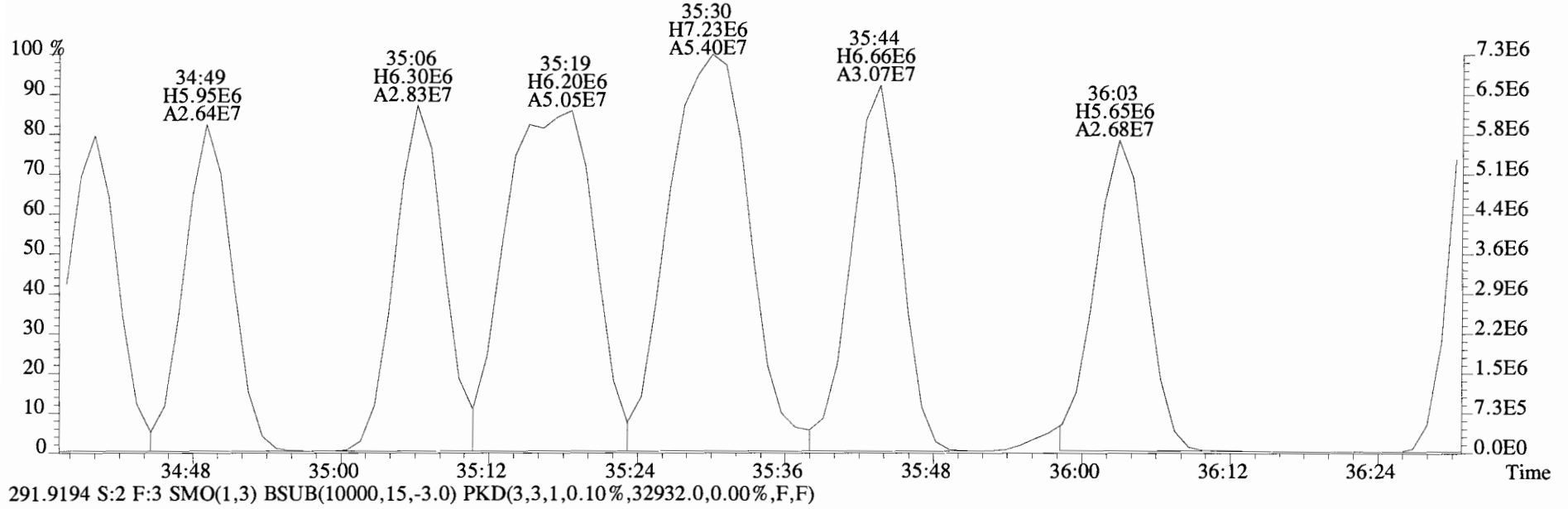
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19720.0,0.00%,F,F)



File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-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%,11260.0,0.00%,F,F)

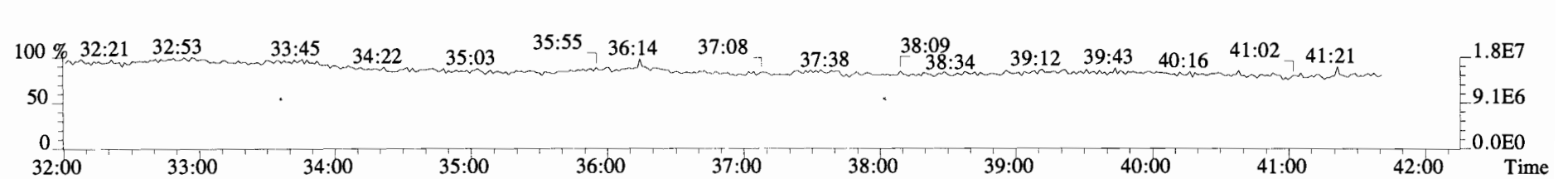
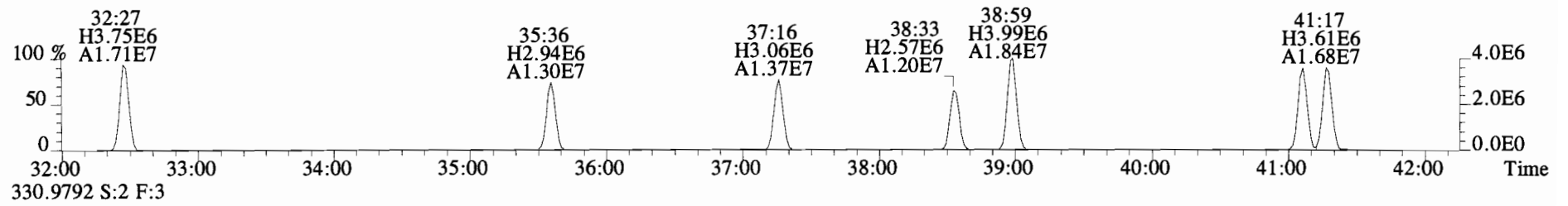
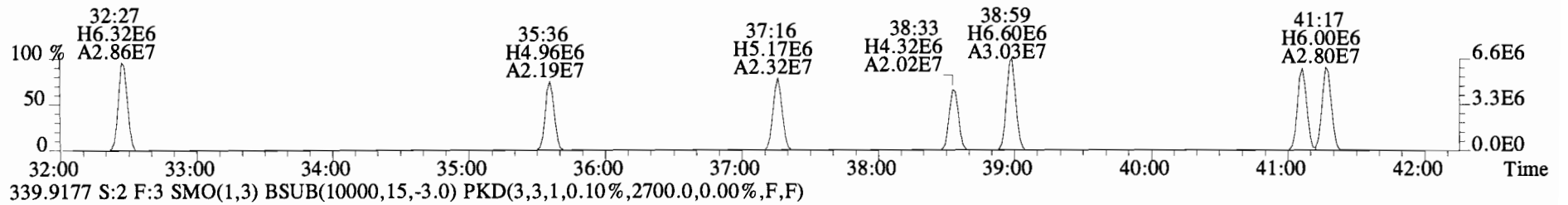
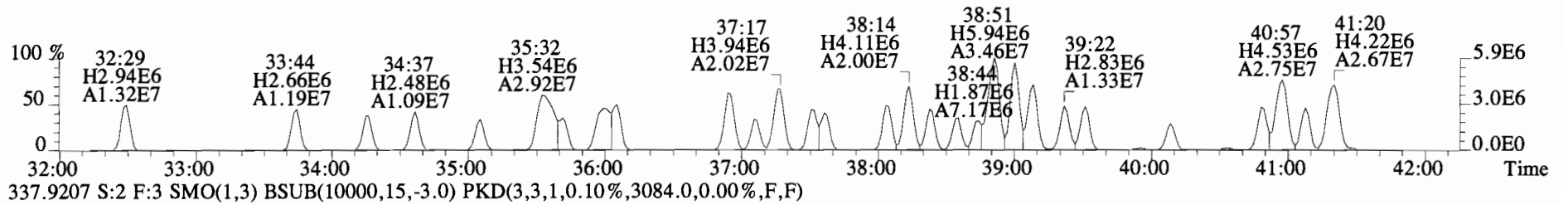
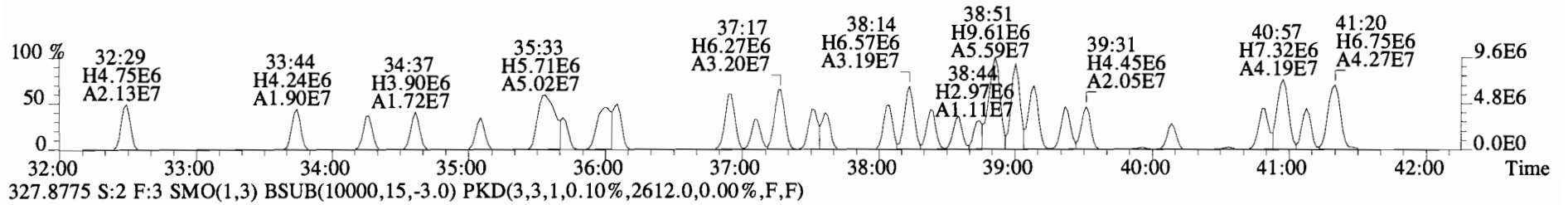


File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19720.0,0.00%,F,F)

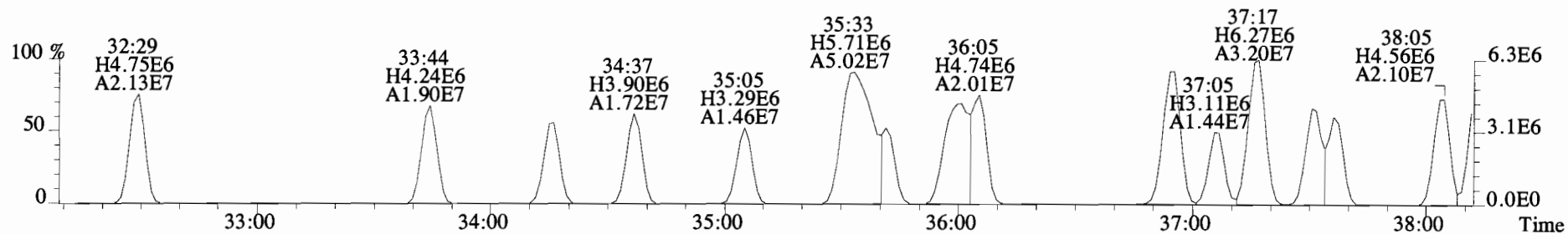




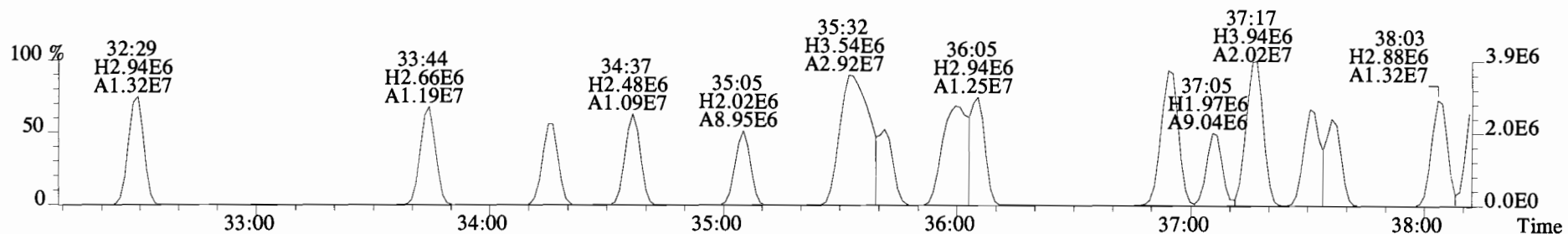
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



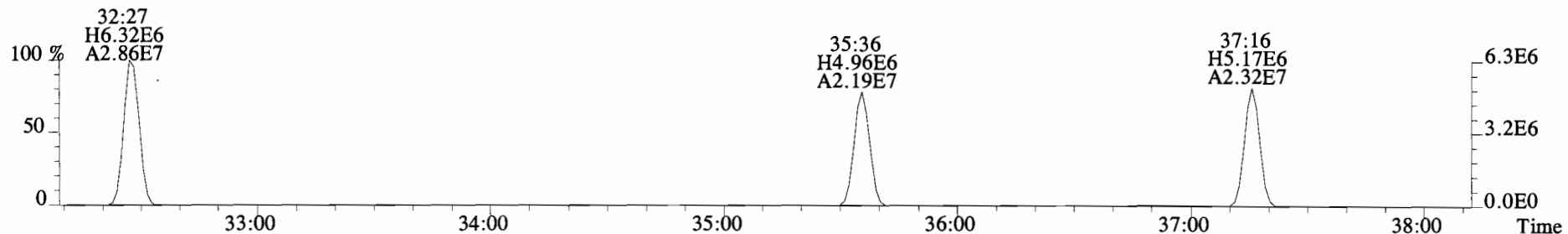
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



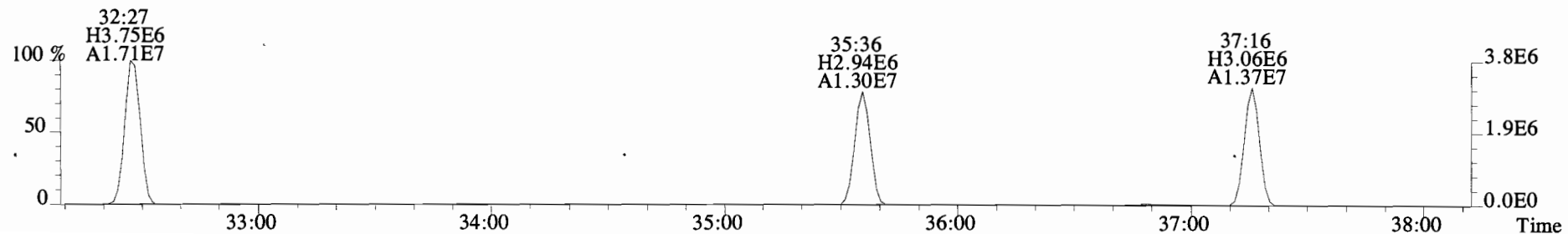
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2612.0,0.00%,F,F)



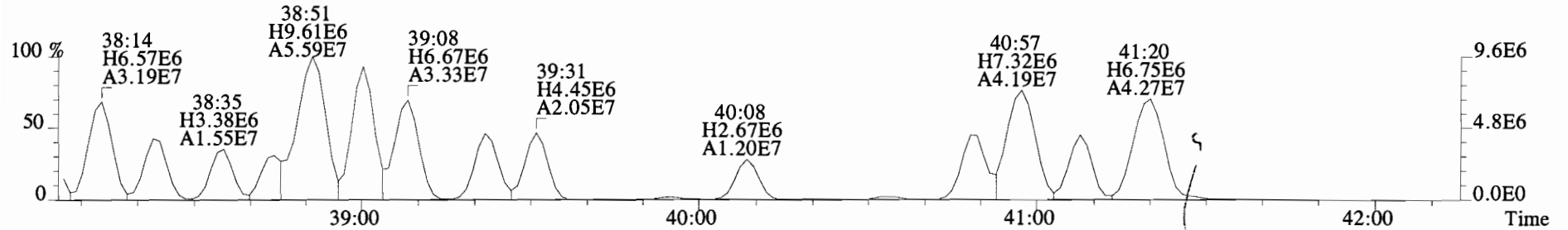
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3084.0,0.00%,F,F)



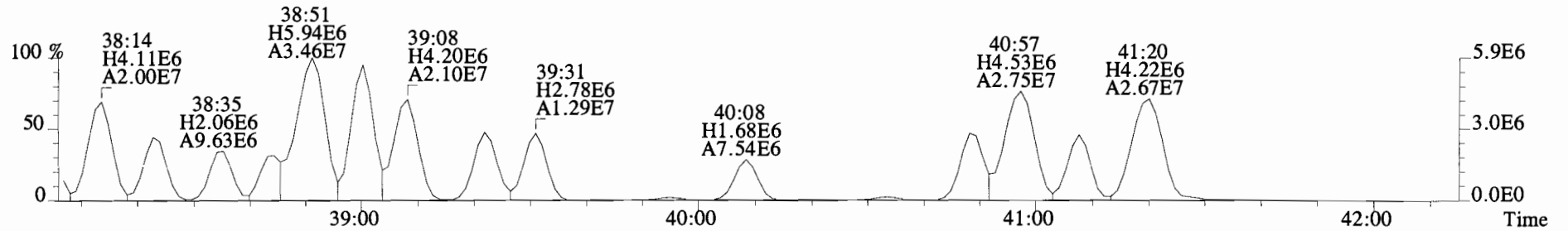
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2700.0,0.00%,F,F)



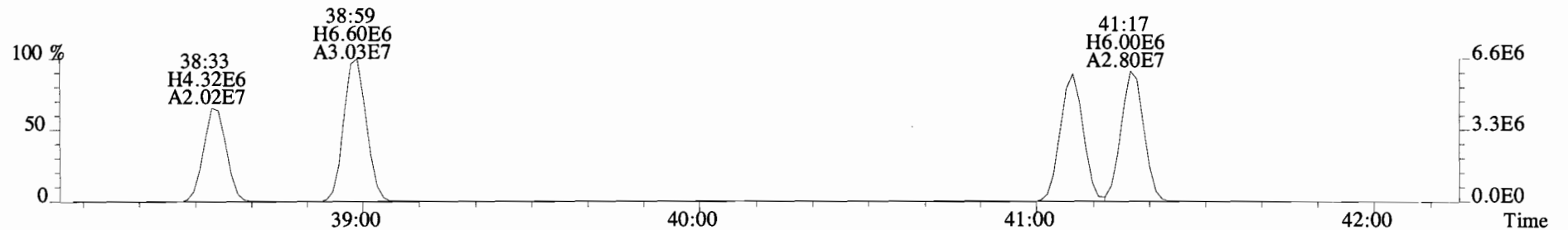
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



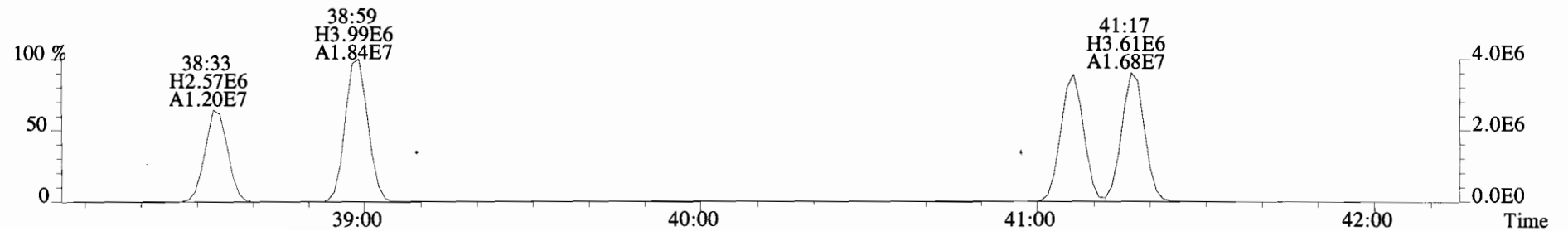
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2612.0,0.00%,F,F)



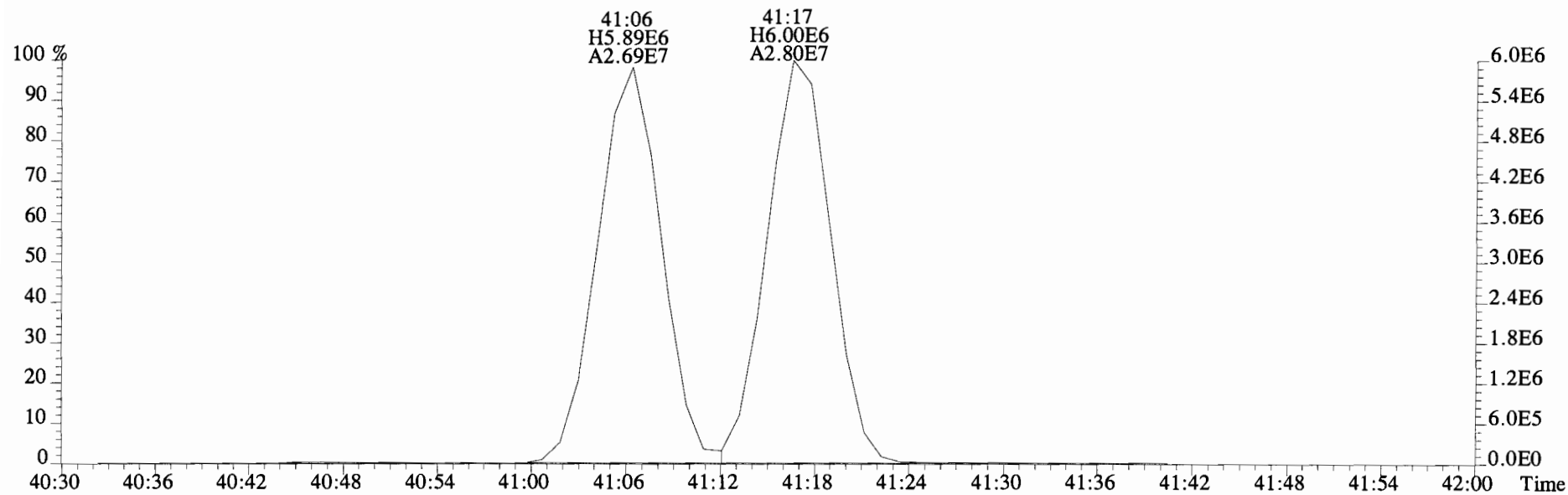
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3084.0,0.00%,F,F)



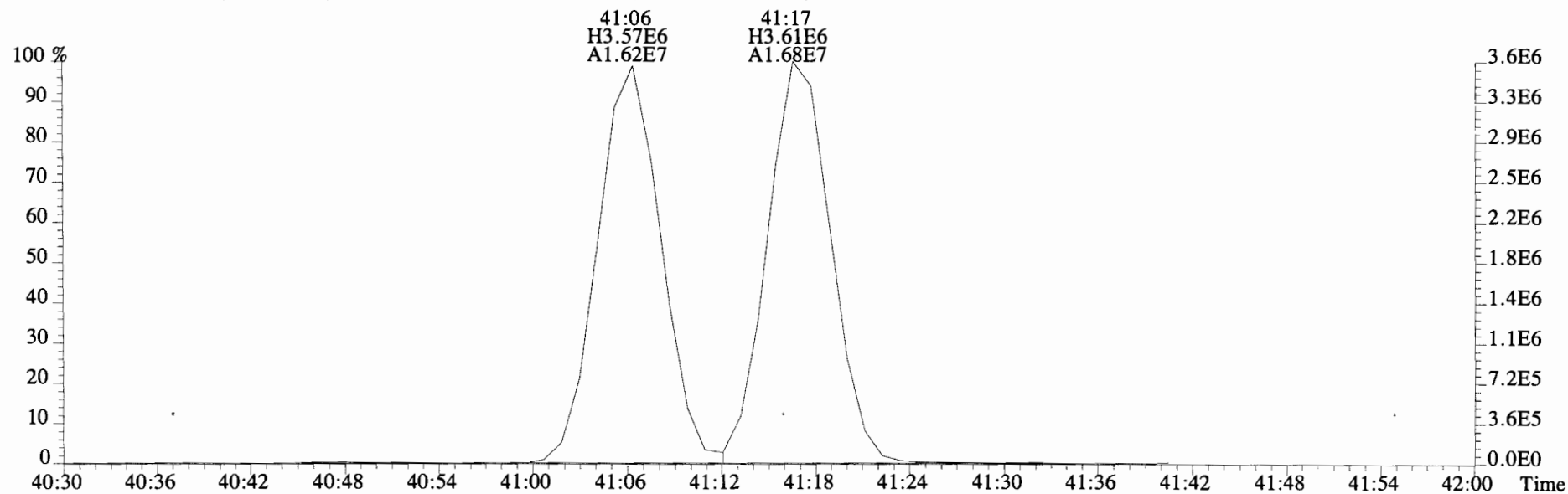
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2700.0,0.00%,F,F)



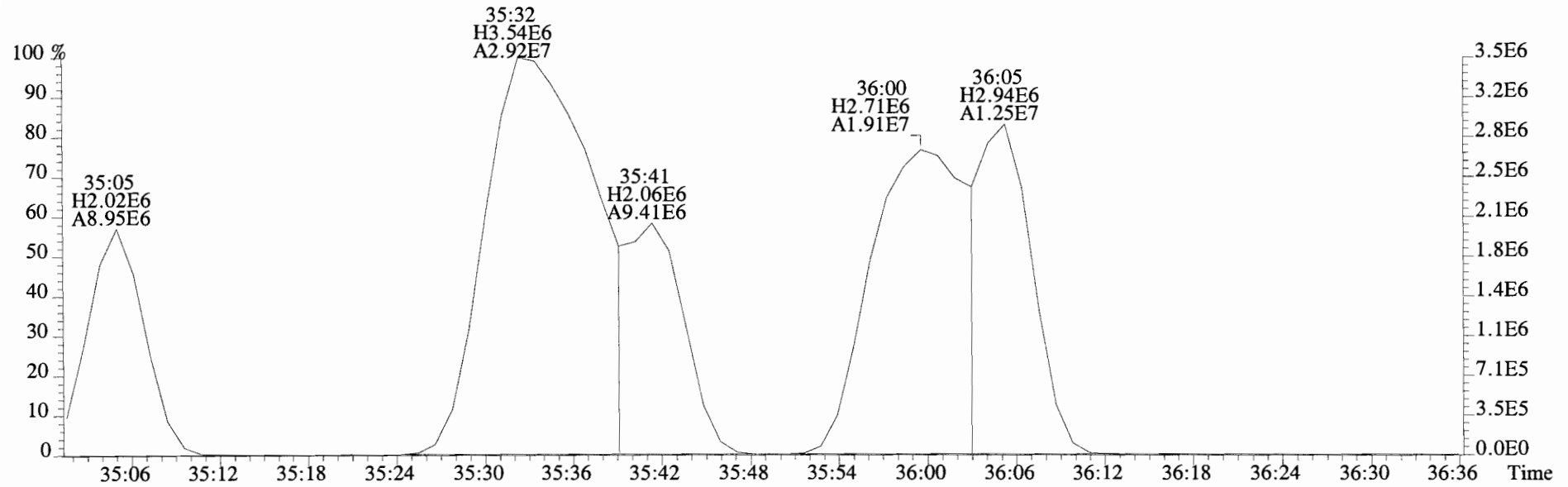
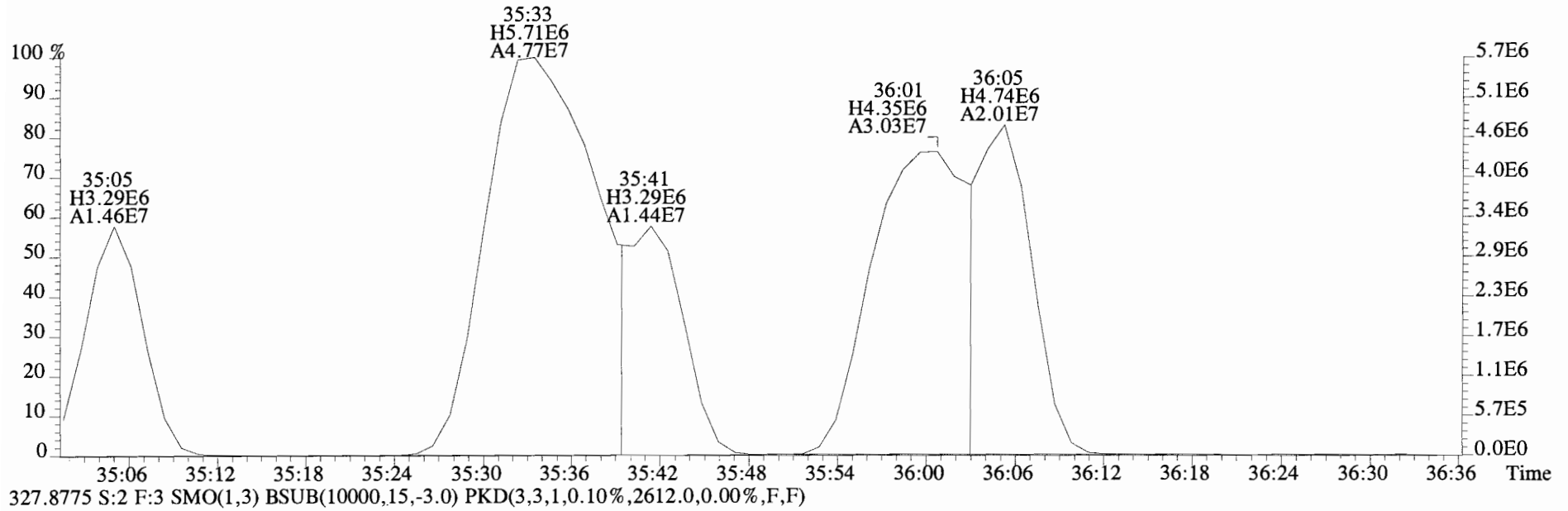
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3084.0,0.00%,F,F)



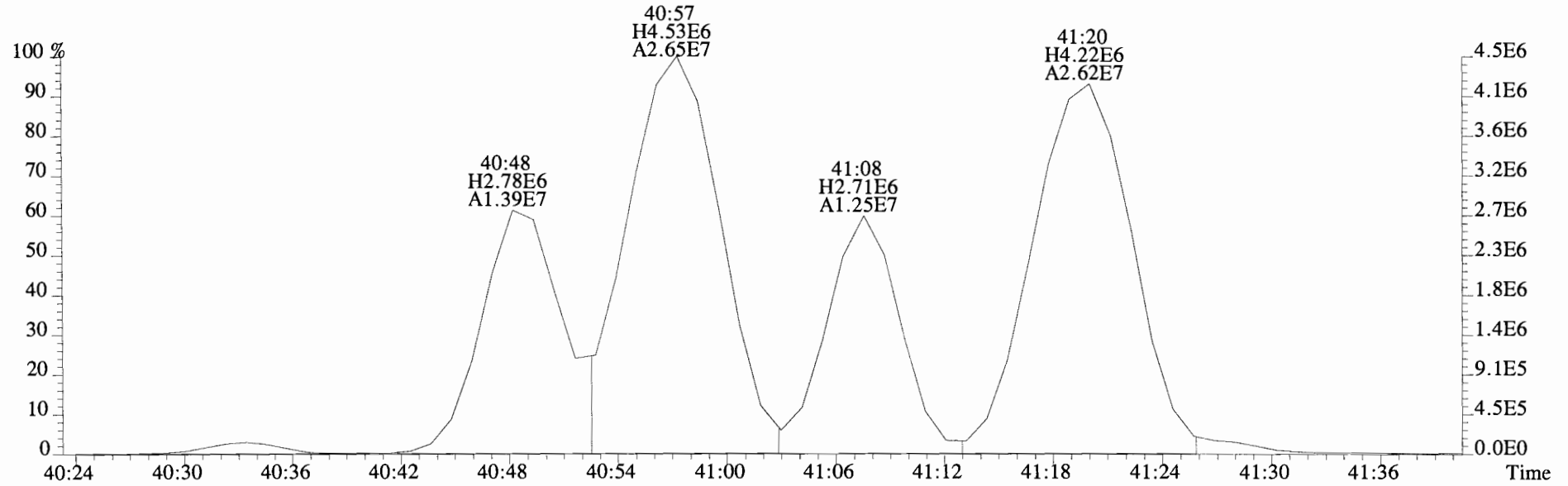
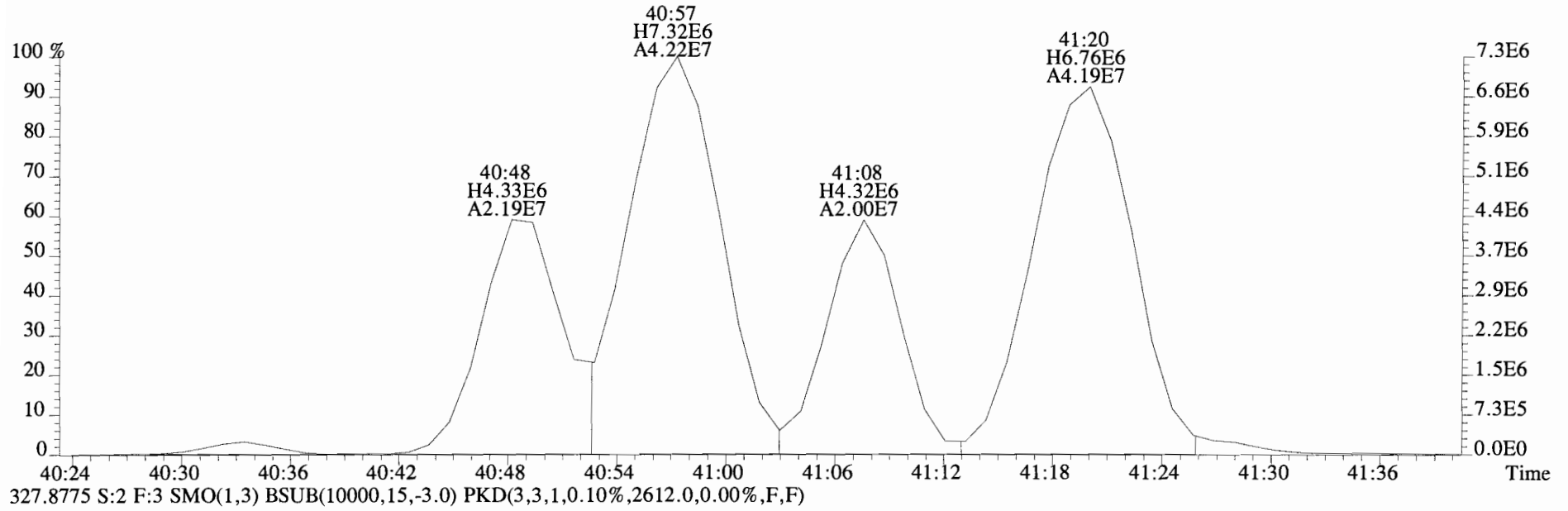
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2700.0,0.00%,F,F)



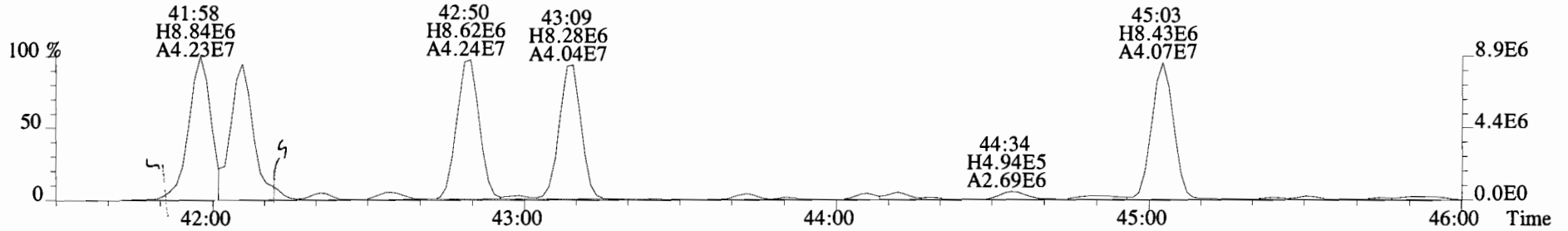
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



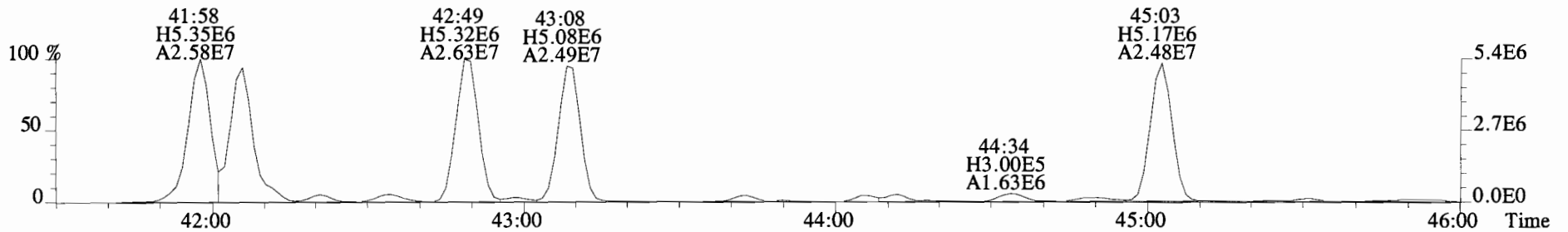
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



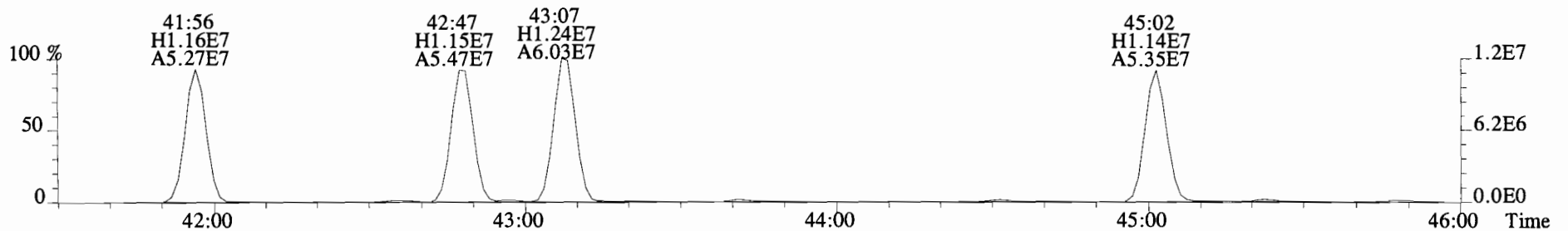
File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7324.0,0.00%,F,F)



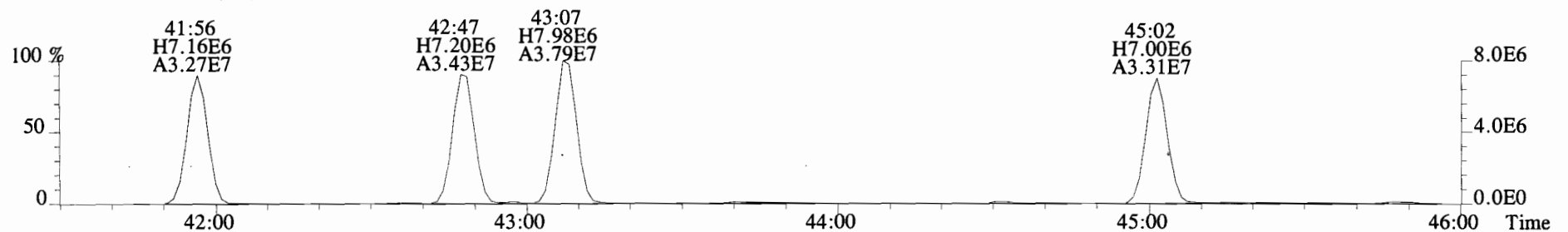
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7608.0,0.00%,F,F)



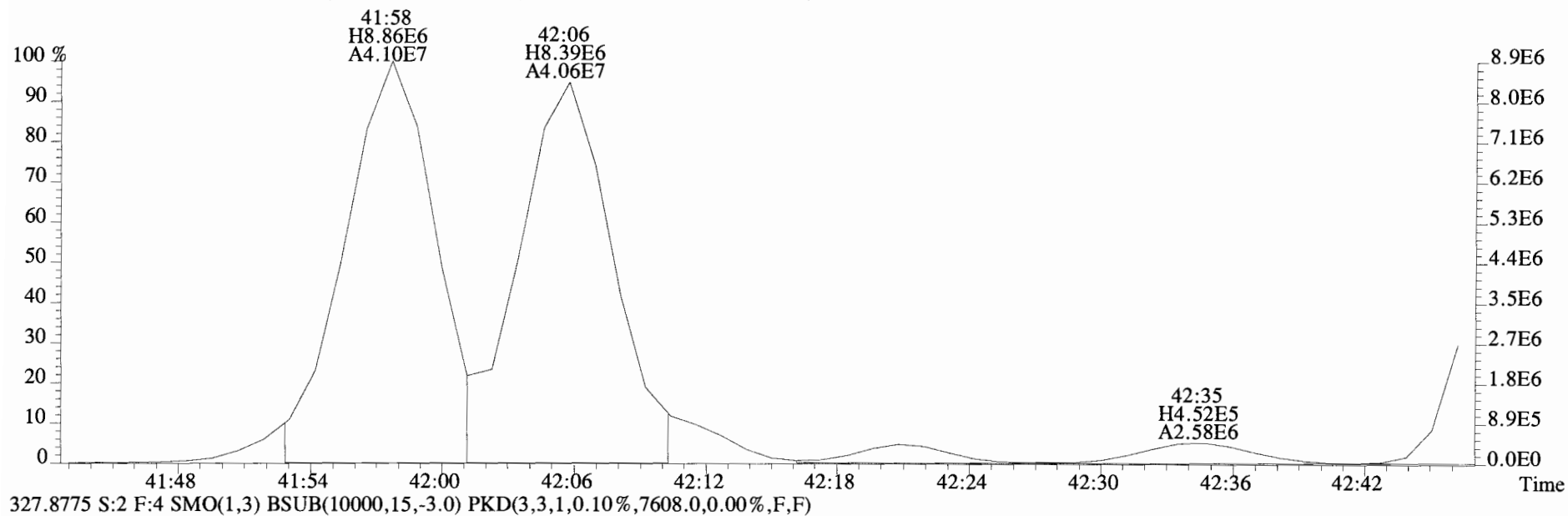
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10556.0,0.00%,F,F)



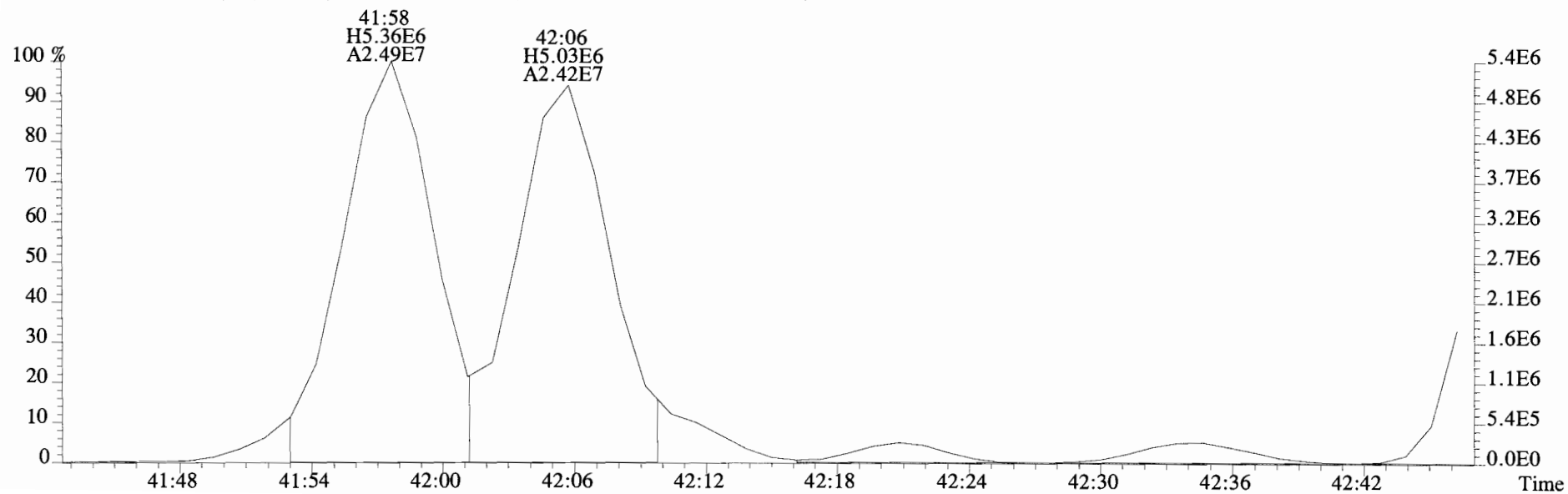
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5500.0,0.00%,F,F)



File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-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%,7324.0,0.00%,F,F)

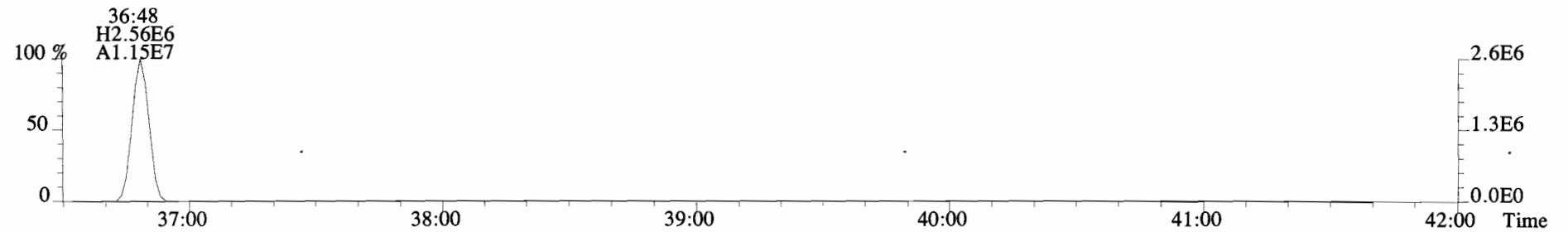
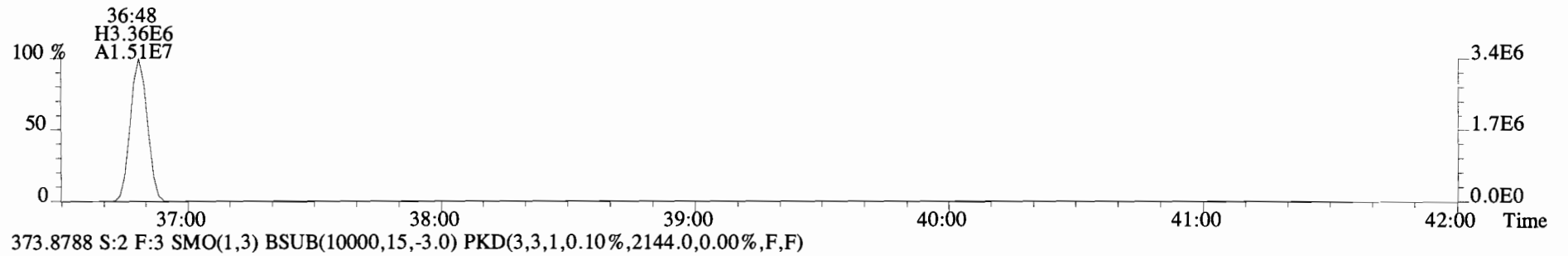
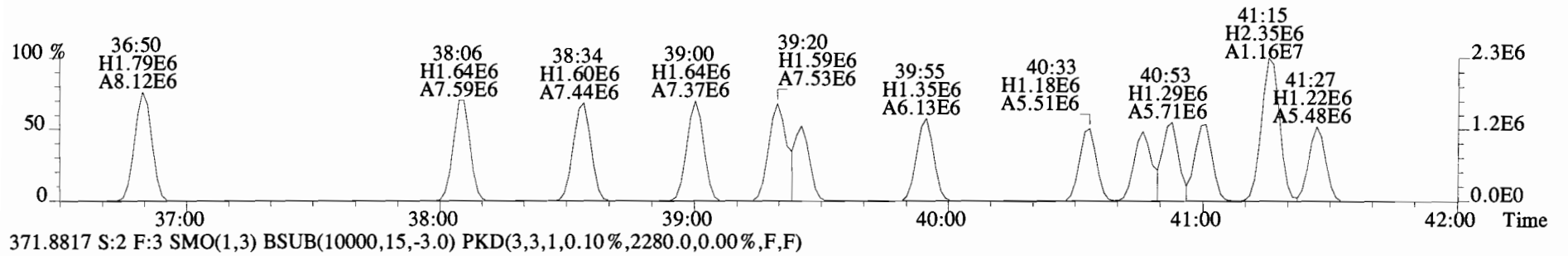
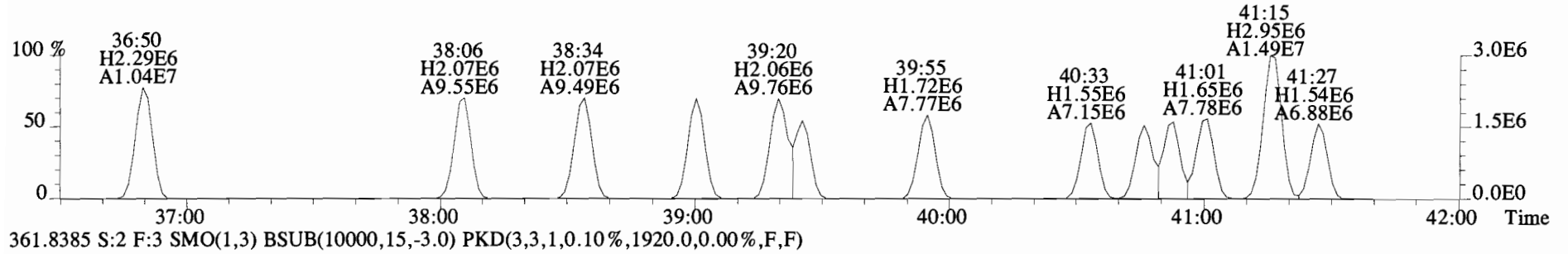


327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7608.0,0.00%,F,F)

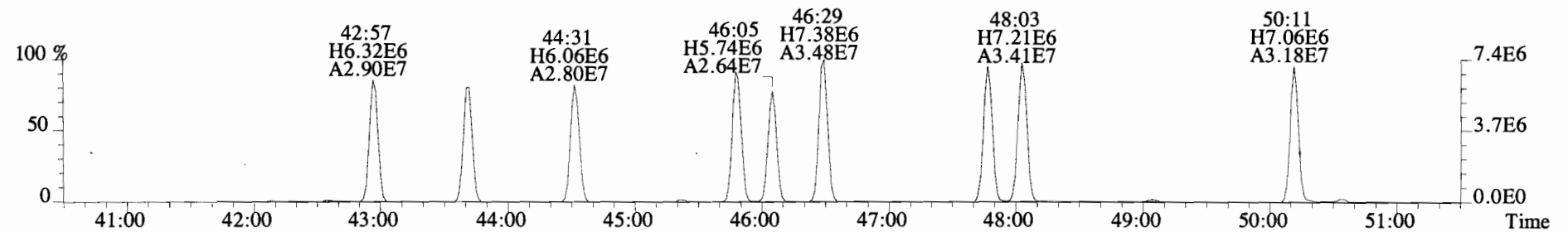
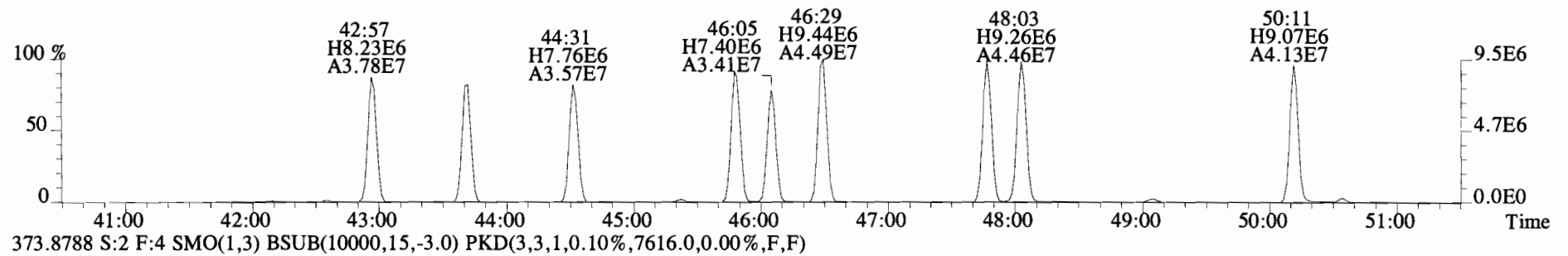
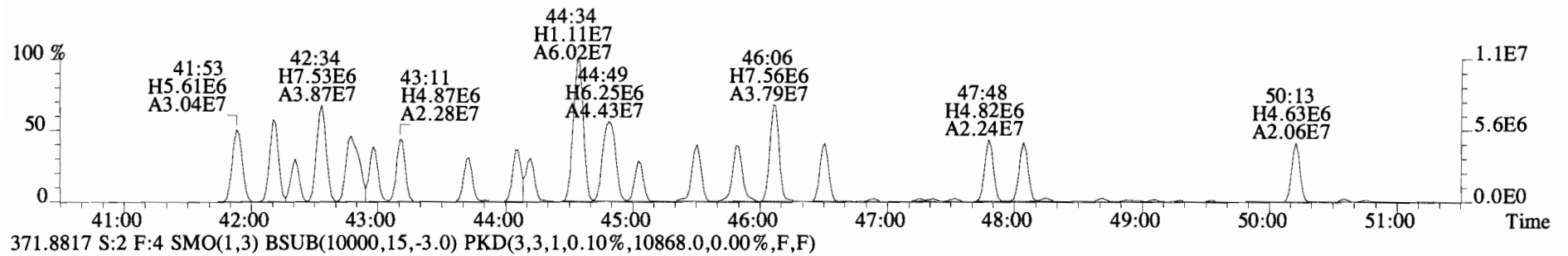
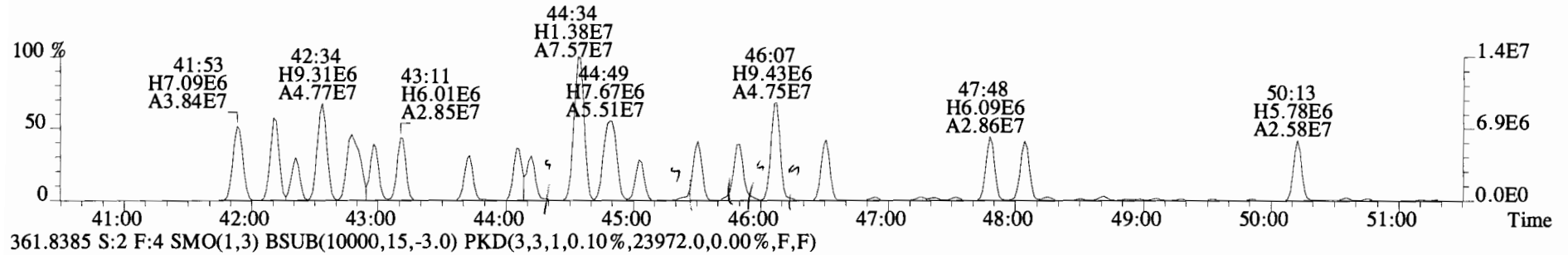




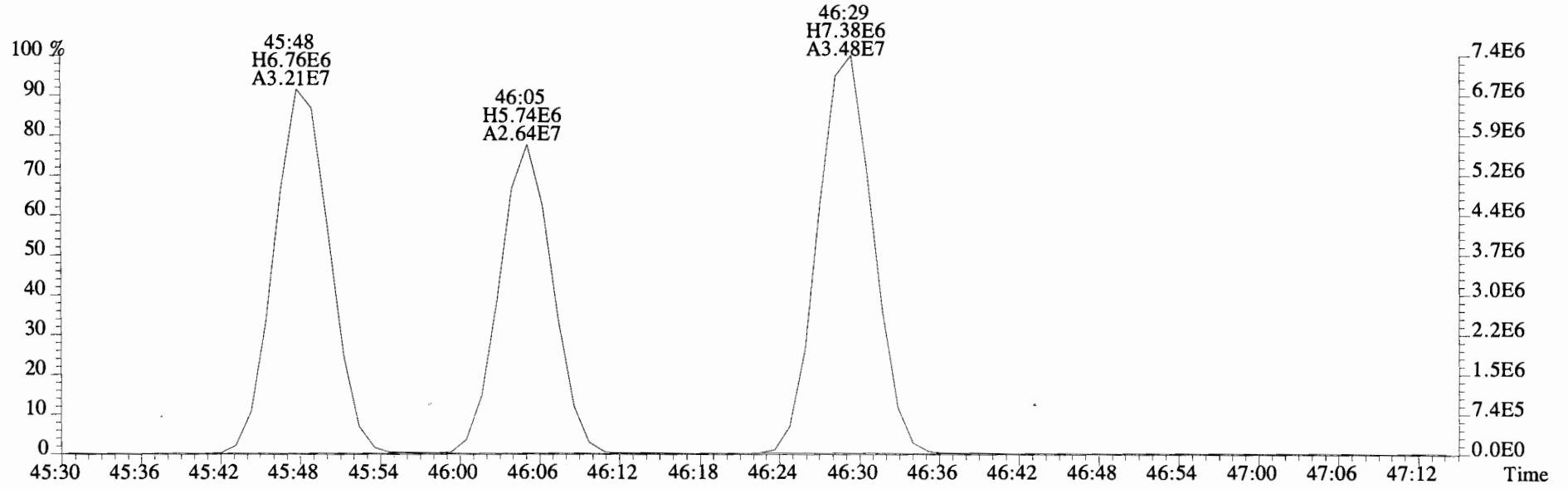
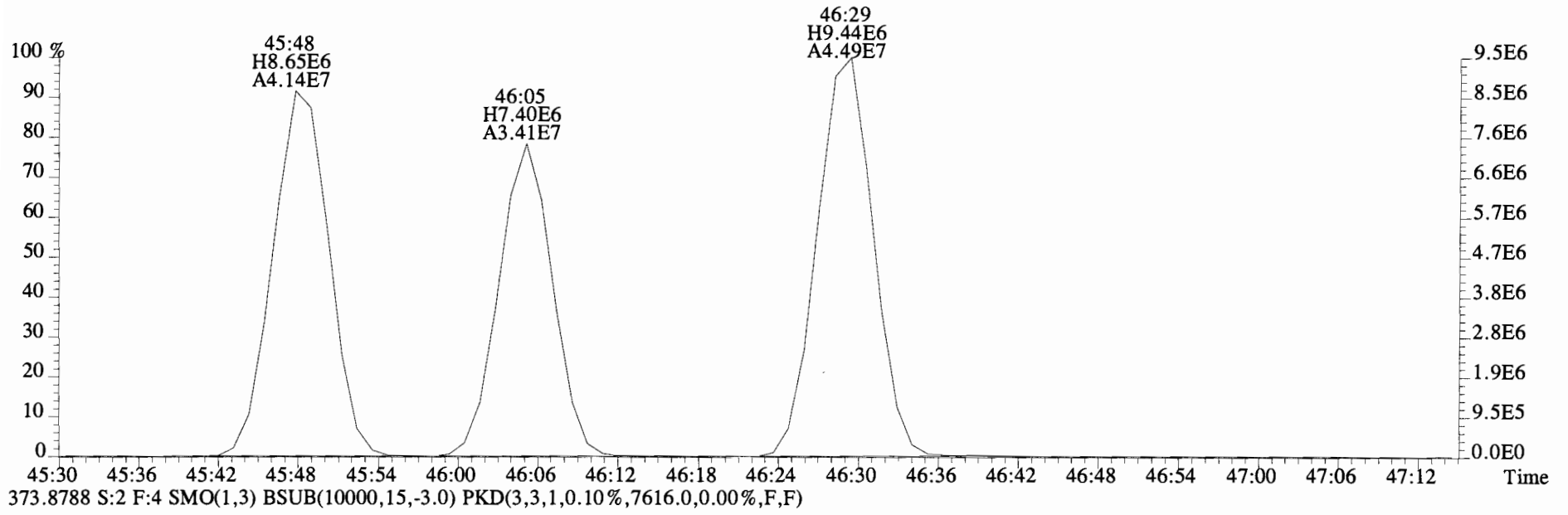
File:140910E2 #1-747 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



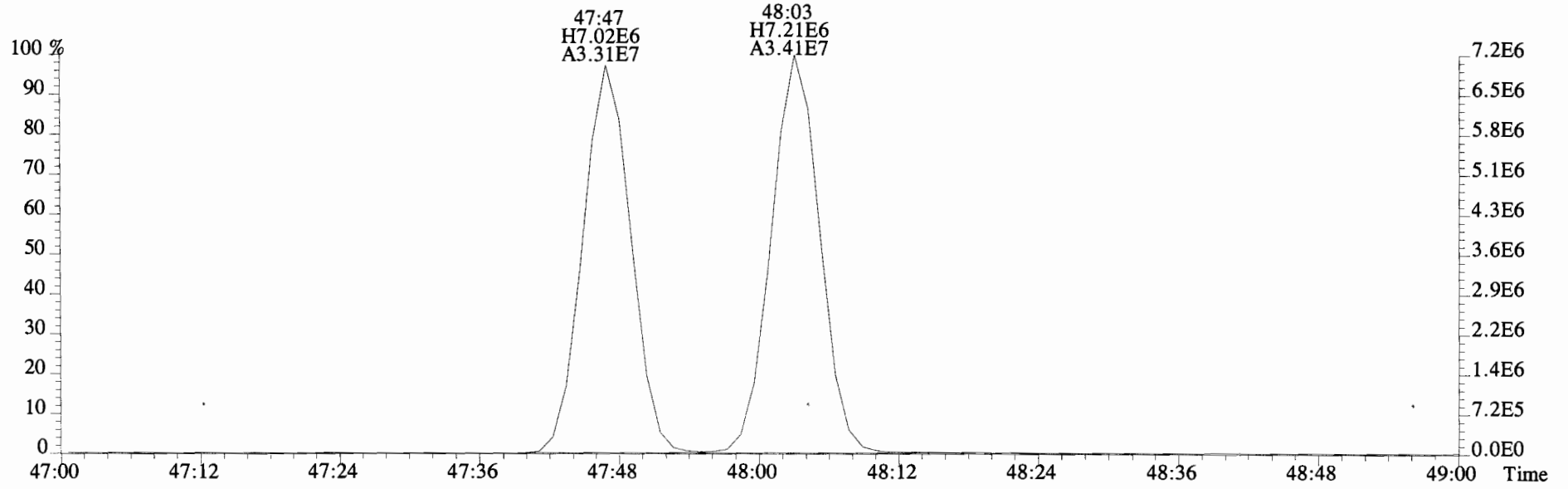
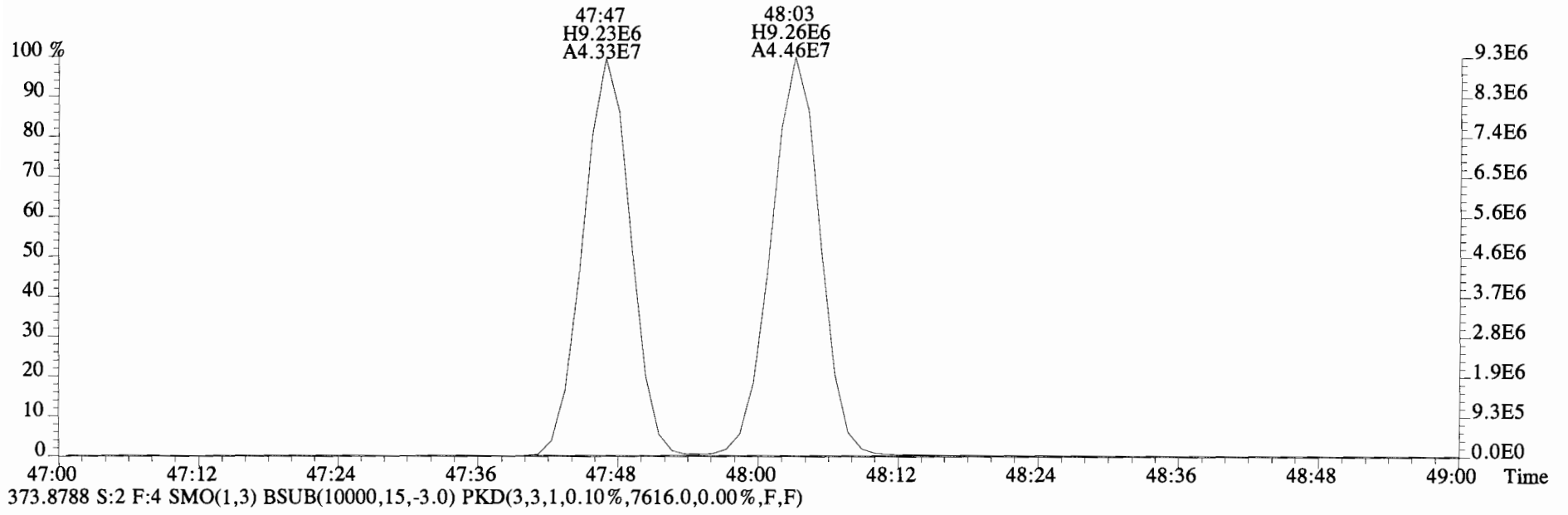
File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13356.0,0.00%,F,F)



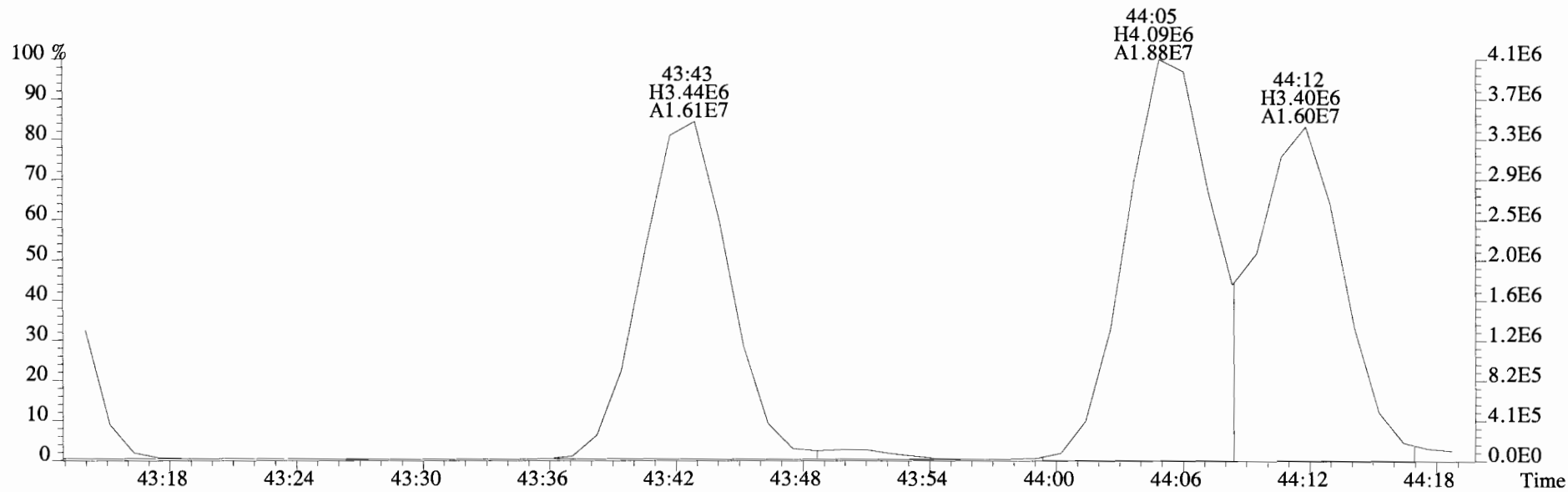
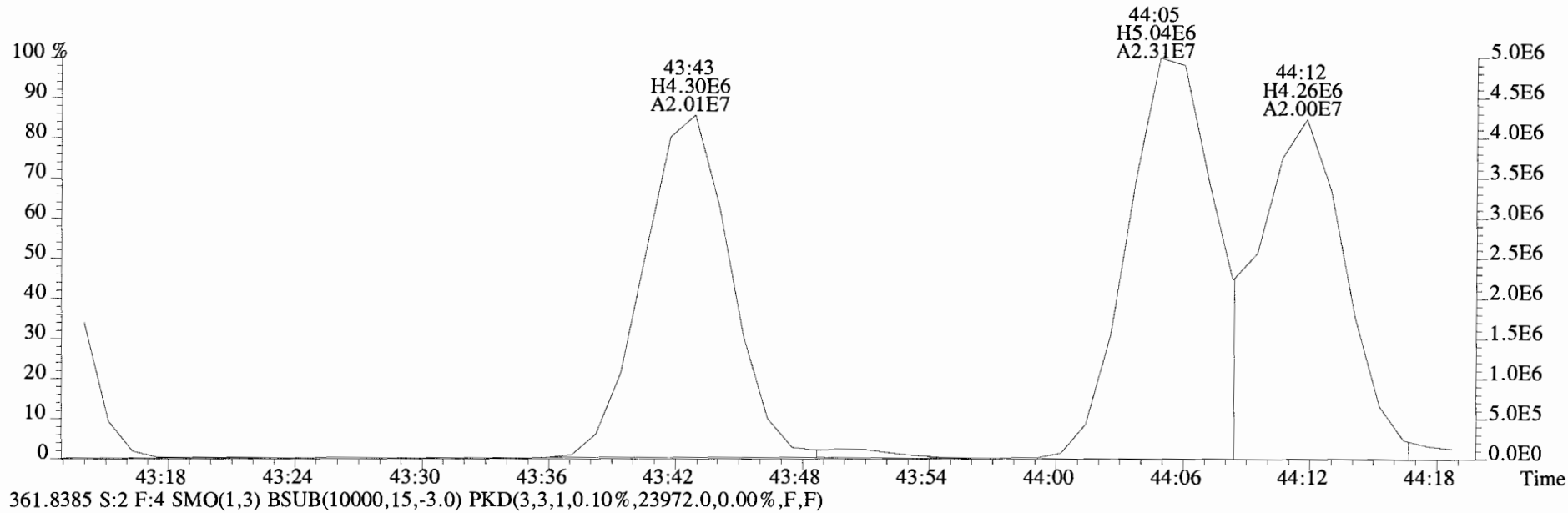
File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10868.0,0.00%,F,F)



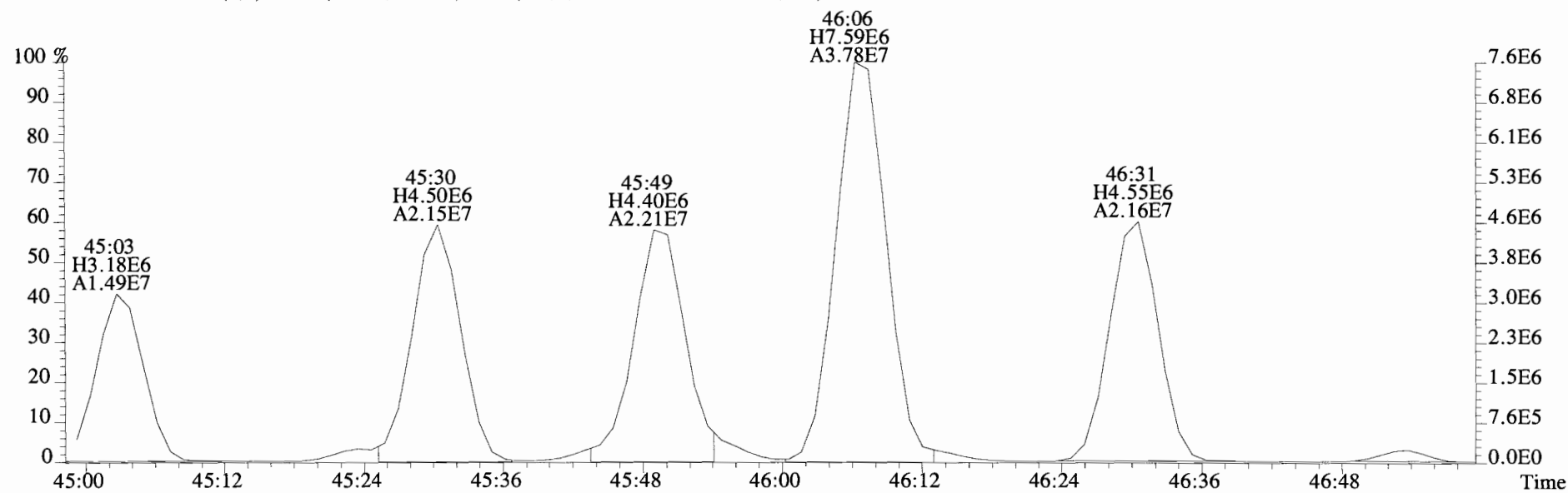
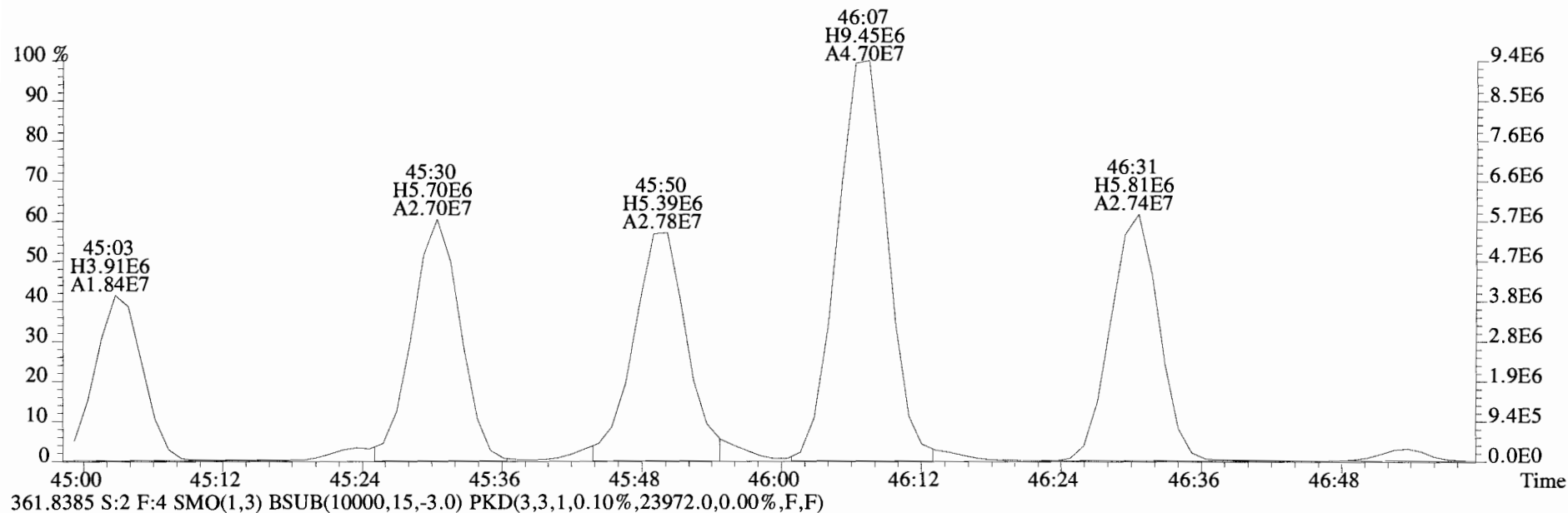
File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10868.0,0.00%,F,F)



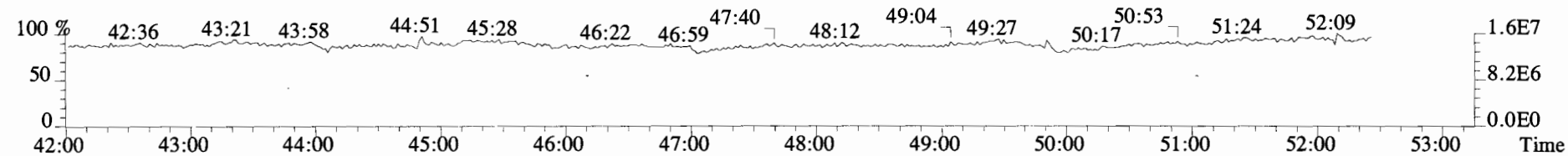
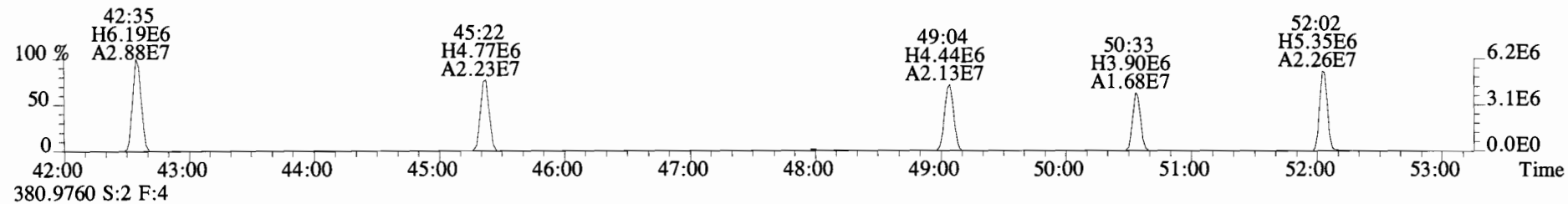
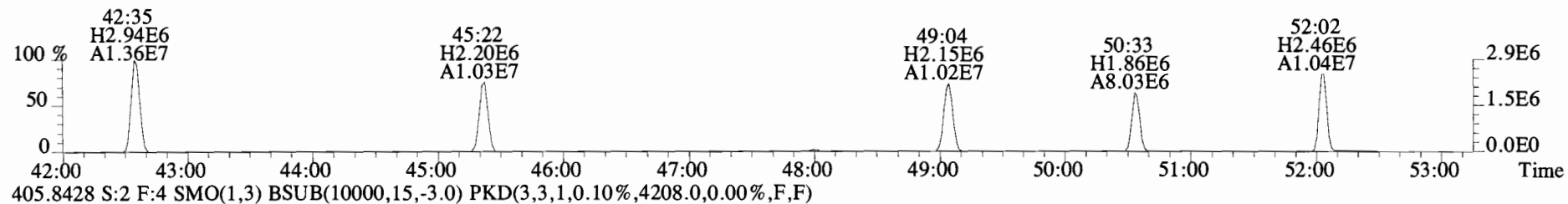
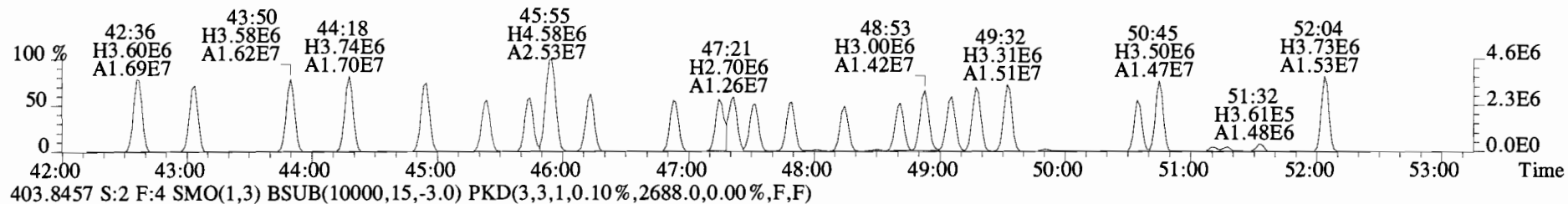
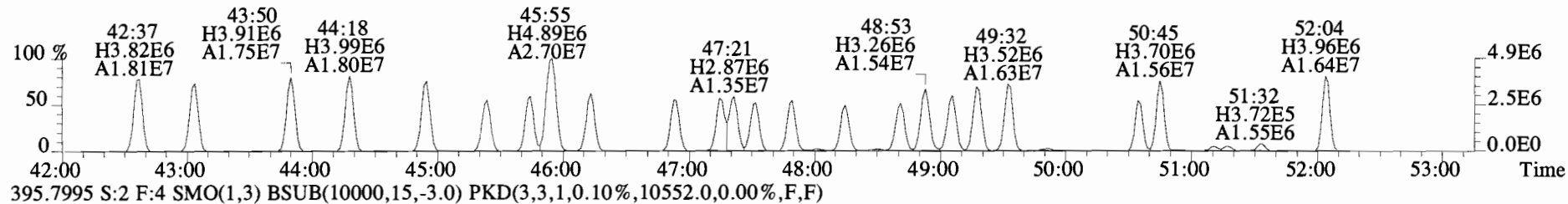
File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410025-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13356.0,0.00%,F,F)



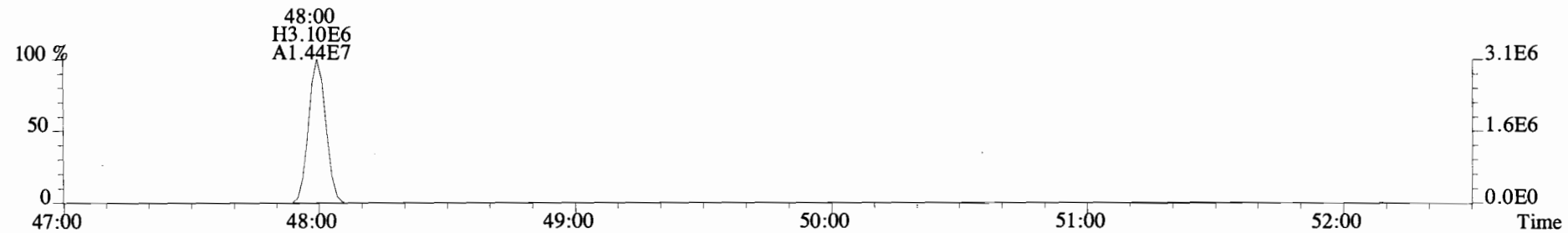
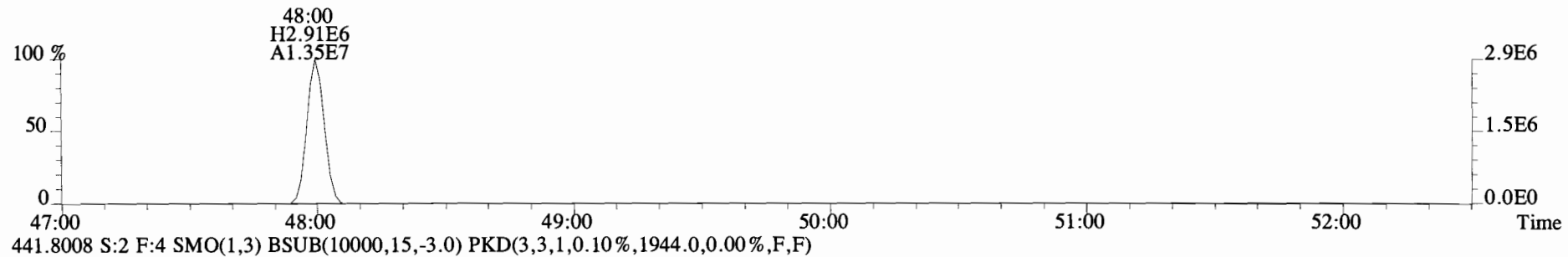
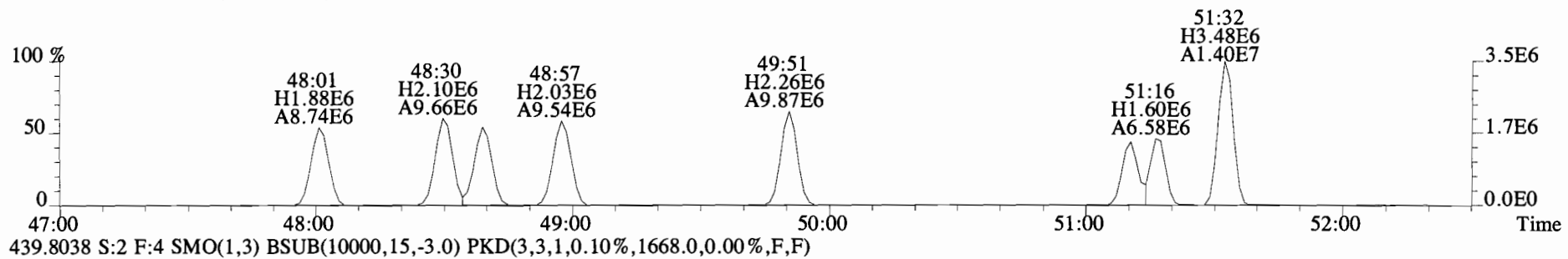
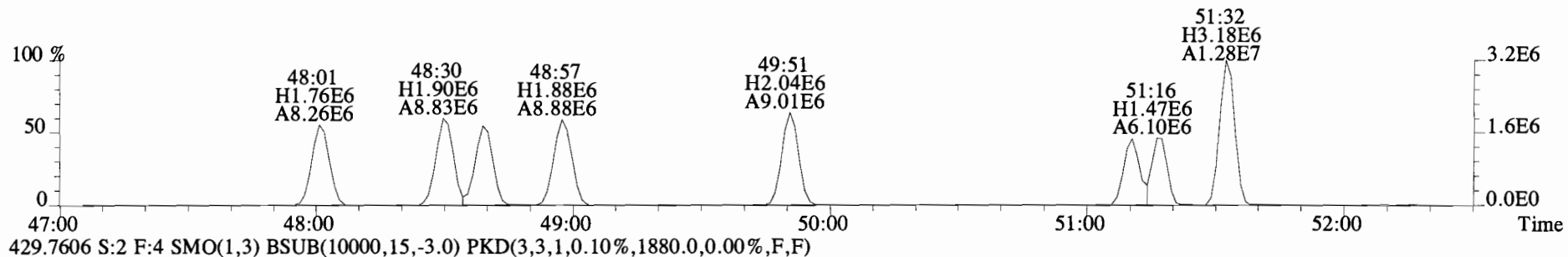
File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13356.0,0.00%,F,F)



File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-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%,10684.0,0.00%,F,F)

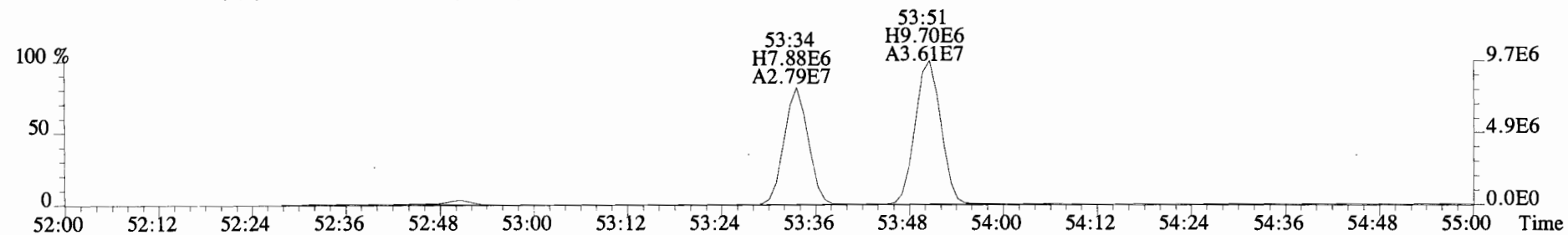
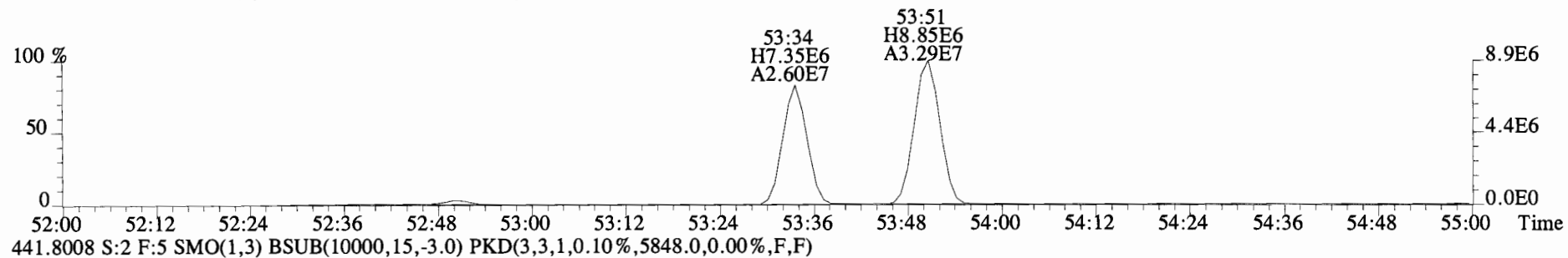
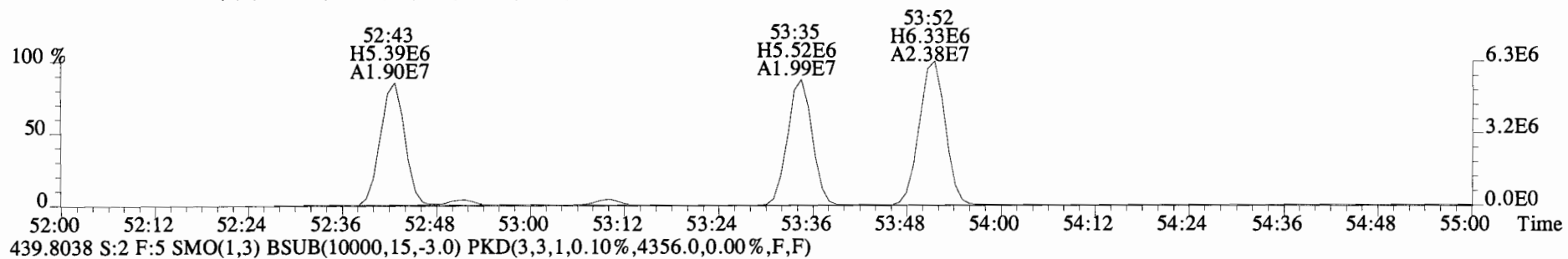
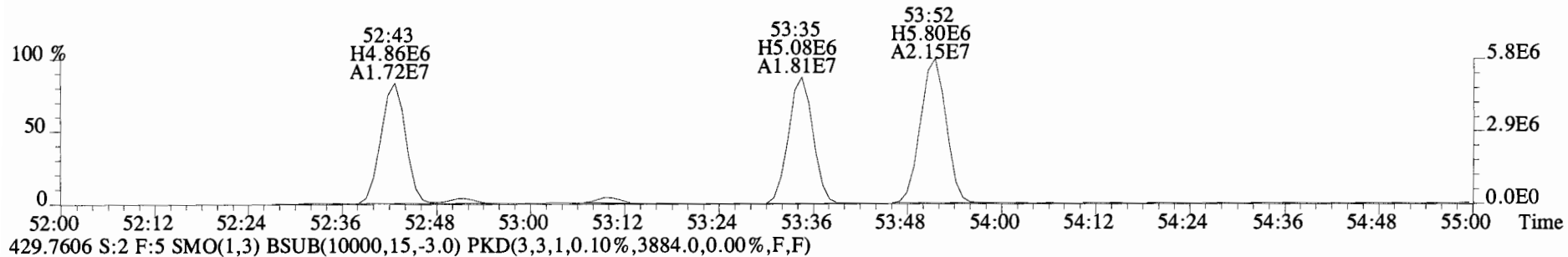


File:140910E2 #1-557 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)

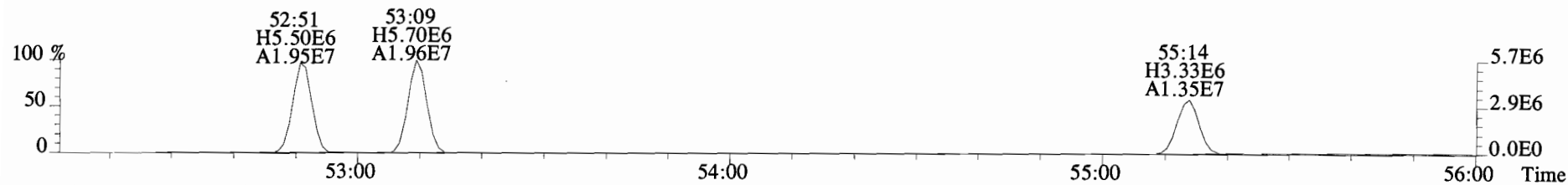




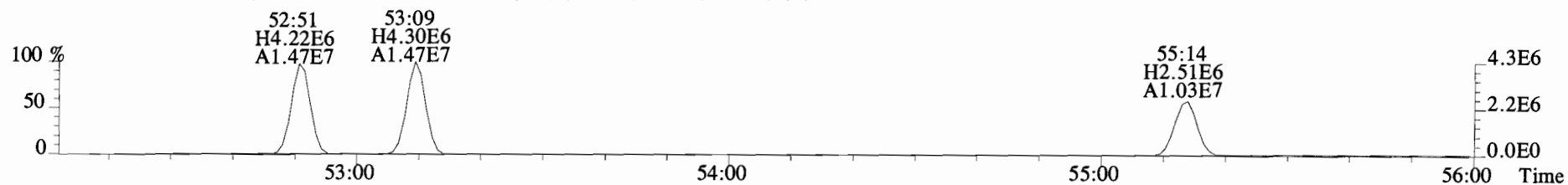
File:140910E2 #1-440 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11860.0,0.00%,F,F)



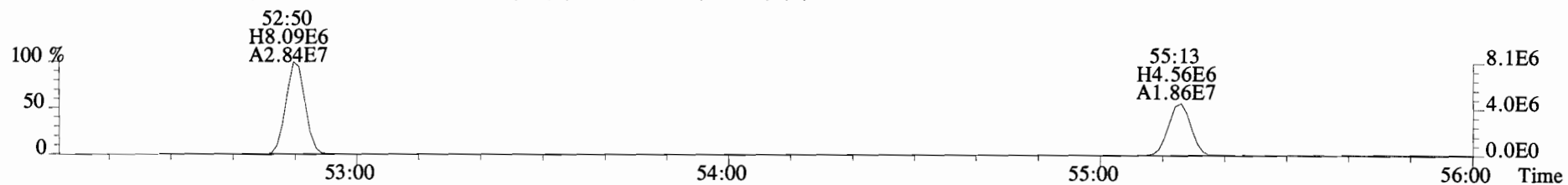
File:140910E2 #1-440 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-BS1 OPR 1 Exp:PCB\_ZB1  
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7340.0,0.00%,F,F)



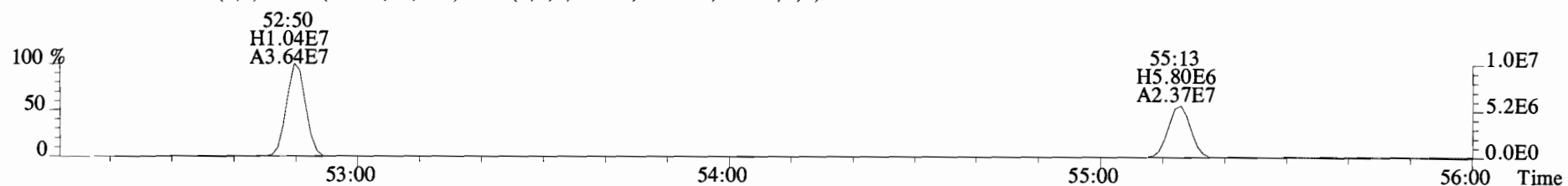
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5560.0,0.00%,F,F)



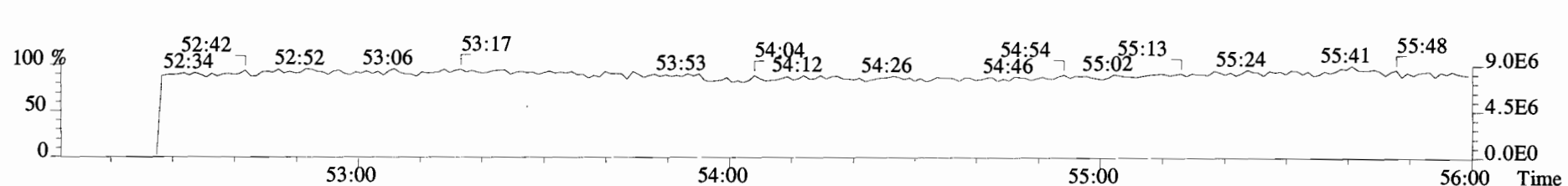
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9304.0,0.00%,F,F)



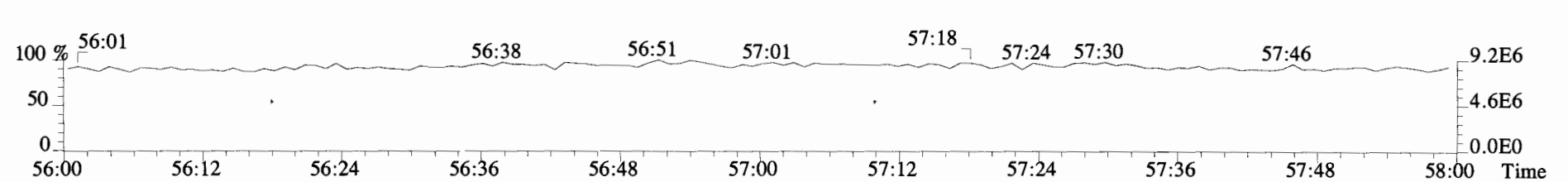
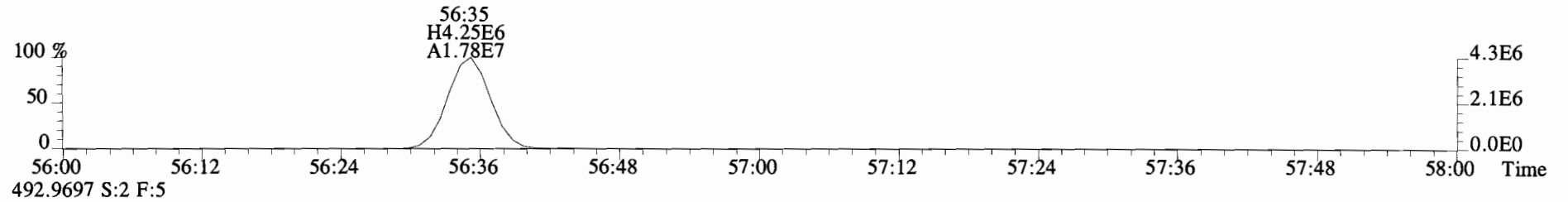
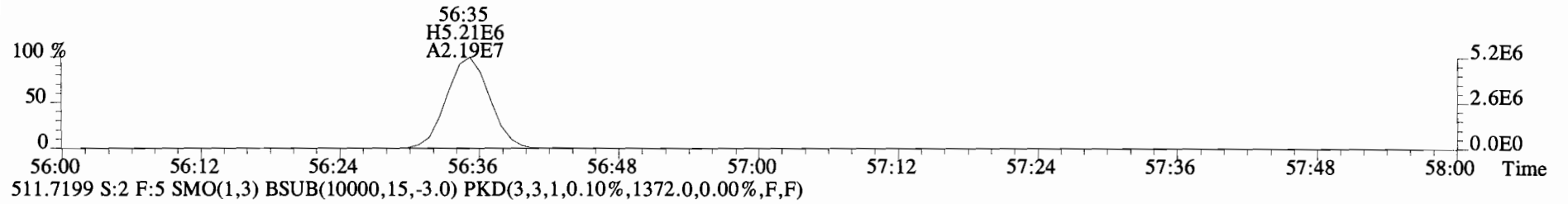
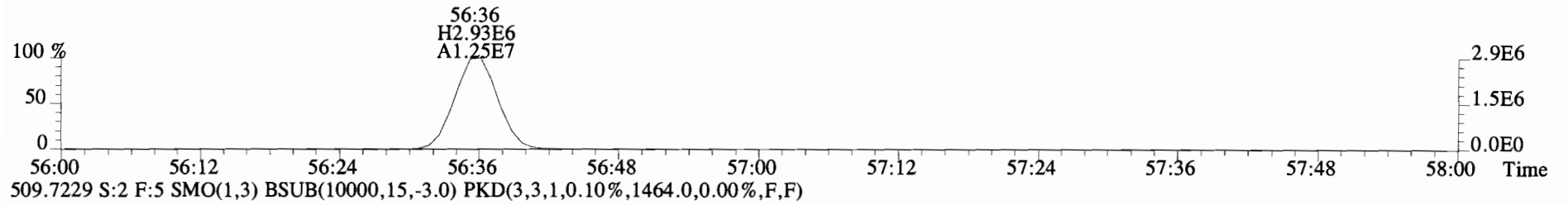
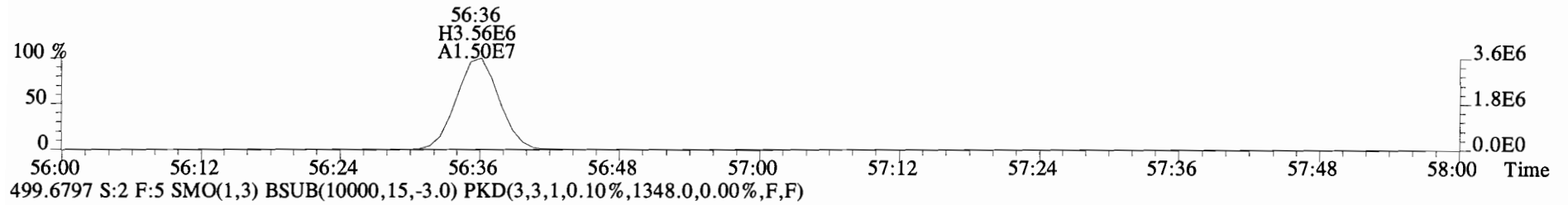
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10252.0,0.00%,F,F)



492.9697 S:2 F:5



File:140910E2 #1-440 Acq:11-SEP-2014 01:05:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0025-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%,1380.0,0.00%,F,F)



Client ID: QC-EB-01-20140903-W  
Lab ID: 1400647-01

Filename: 140910E2  
GC Column ID: ZB-1

S:5 Acq:11-SEP-14 04:17:36  
Ical: PCBVG8-6-20-14 wt/vol: 0.980

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	2.71e+05	2.82	y 16:13	1.25	2.58		*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	1.50e+05	3.00	y 18:32	1.18	1.55		*	2.5	*	0.988	0.983-0.993	
Mono	PCB-3	1.78e+05	2.80	y 18:45	1.22	1.79		*	2.5	*	1.000	0.996-1.006	
Di	PCB-4/10	*	*	n NotF $\eta$	1.55	*		15000	2.5	4.59	*	0.998-1.008	
Di	PCB-7/9	*	*	n NotF $\eta$	1.27	*		15000	2.5	3.63	*	0.865-0.873	
Di	PCB-6	*	*	n NotF $\eta$	1.26	*		15000	2.5	3.66	*	0.890-0.899	
Di	PCB-5/8	9.14e+05	1.48	y 22:51	1.23	9.67		*	2.5	*	0.910	0.906-0.916	
Di	PCB-14	*	*	n NotF $\eta$	1.23	*		15000	2.5	3.44	*	0.949-0.959	
Di	PCB-11	2.97e+06	1.61	y 25:08	1.16	29.8		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	*	*	n NotF $\eta$	1.10	*		15000	2.5	3.86	*	1.010-1.020	
Di	PCB-15	*	*	n NotF $\eta$	1.21	*		15000	2.5	3.51	*	1.024-1.034	
Tri	PCB-19	7.18e+04	0.98	y 24:08	1.30	1.37		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.83	*		2280	2.5	0.602	*	1.032-1.042	
Tri	PCB-18	4.93e+05	1.16	y 25:45	0.86	9.60		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	2.22e+05	1.17	y 25:55	0.90	4.12		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	*	*	n NotF $\eta$	1.18	*		2280	2.5	0.638	*	0.976-0.986	
Tri	PCB-16/32	4.67e+05	1.11	y 26:59	1.03	7.58		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.26	*		2290	2.5	0.645	*	0.956-0.966	
Tri	PCB-23	*	*	n NotF $\eta$	1.31	*		2290	2.5	0.621	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF $\eta$	1.33	*		2290	2.5	0.612	*	0.967-0.977	
Tri	PCB-26	1.17e+05	0.93	y 28:19	1.29	1.38		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	7.72e+04	1.09	y 28:28	1.34	0.880		*	2.5	*	0.984	0.980-0.990	
Tri	PCB-31	7.67e+05	1.07	y 28:50	1.42	8.28		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	7.07e+05	1.18	y 28:55	1.38	7.86		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	4.87e+05	1.19	y 29:34	1.31	5.69		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	2.70e+05	1.15	y 29:58	1.32	3.13		*	2.5	*	1.036	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.38	*		2290	2.5	0.623	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF $\eta$	1.42	*		2290	2.5	0.604	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF $\eta$	1.35	*		2290	2.5	0.633	*	0.967-0.976	
Tri	PCB-35	*	*	n NotF $\eta$	1.38	*		2290	2.5	0.623	*	0.982-0.992	
Tri	PCB-37	2.15e+05	1.04	y 32:46	1.39	2.44		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-54	*	*	n NotF $\eta$	1.20	*		2480	2.5	0.783	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.97	*		2480	2.5	0.971	*	1.037-1.047	
Tetra	PCB-53	5.58e+04	0.64	n 29:37	1.19	1.19	R	*	2.5	*	0.946	0.941-0.951	
Tetra	PCB-51	*	*	n NotF $\eta$	1.15	*		2480	2.5	1.13	*	0.952-0.962	
Tetra	PCB-45	7.14e+04	0.68	y 30:22	0.97	1.87		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	*	*	n NotF $\eta$	0.95	*		2480	2.5	1.37	*	0.982-0.992	

Integrations by:

Analyst: ms

Date: 9/11/14

Reviewed by: ATC Date: 9/17/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	7.08e+05	0.74	y 31:18	1.28	14.0		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.37	*		2480	2.5	0.951	*	1.000-1.010	
Tetra	PCB-43/49	2.78e+05	0.84	y 31:37	1.11	6.32		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	2.08e+05	0.78	y 31:49	1.13	4.45		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	8.54e+04	1.01	n 31:56	1.30	1.59	R	*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.33	*		2480	2.5	0.897	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF $\eta$	1.29	*		2480	2.5	0.926	*	1.011-1.021	
Tetra	PCB-44	3.87e+05	0.72	y 32:36	0.94	9.99		*	2.5	*	1.025	1.020-1.030	
Tetra	PCB-42/59	1.38e+05	0.70	y 32:49	1.22	2.75		*	2.5	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	4.70e+05	0.71	y 33:25	1.31	8.69		*	2.5	*	1.051	1.046-1.056	
Tetra	PCB-68	*	*	n NotF $\eta$	1.49	*		2480	2.5	0.806	*	1.054-1.064	
Tetra	PCB-40	*	*	n NotF $\eta$	0.82	*		2480	2.5	1.46	*	1.061-1.071	
Tetra	PCB-57	*	*	n NotF $\eta$	1.11	*		2480	2.5	0.937	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF $\eta$	1.07	*		2480	2.5	0.972	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF $\eta$	1.10	*		2480	2.5	0.948	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF $\eta$	1.12	*		2480	2.5	0.934	*	0.982-0.992	
Tetra	PCB-74	2.17e+05	0.74	y 35:06	1.20	3.75		*	2.5	*	0.995	0.990-1.000	
Tetra	PCB-61/70	5.52e+05	0.66	y 35:18	1.08	10.7		*	2.5	*	1.000	0.994-1.004	
Tetra	PCB-76/66	3.20e+05	0.73	y 35:31	1.14	5.87		*	2.5	*	1.007	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.28	*		2480	2.5	0.813	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotF $\eta$	1.11	*		2480	2.5	0.936	*	1.005-1.015	
Tetra	PCB-56/60	2.54e+05	0.88	y 36:31	1.09	4.73		*	2.5	*	1.023	1.018-1.028	
Tetra	PCB-79	*	*	n NotF $\eta$	1.12	*		2480	2.5	0.924	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.24	*		2480	2.5	0.973	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotF $\eta$	1.38	*		2480	2.5	0.871	*	0.995-1.005	
Tetra	PCB-77	*	*	n NotF $\eta$	1.21	*		2480	2.5	1.03	*	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.26	*		1600	2.5	1.48	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF $\eta$	1.09	*		1600	2.5	1.70	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF $\eta$	0.93	*		1600	2.5	2.00	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	1.00	*		1600	2.5	1.86	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.11	*		1600	2.5	2.48	*	0.981-0.991	
Penta	PCB-95/98/102	2.84e+05	1.72	y 35:36	1.21	13.7		*	2.5	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF $\eta$	1.13	*		1600	2.5	2.43	*	0.998-1.008	
Penta	PCB-88/91	5.39e+04	1.14	n 35:59	1.02	3.10	R	*	2.5	*	1.011	1.006-1.016	
Penta	PCB-121	*	*	n NotF $\eta$	1.90	*		1600	2.5	1.44	*	1.009-1.019	
Penta	PCB-84/92	1.36e+05	1.72	y 36:54	1.05	7.61		*	2.5	*	0.991	0.986-0.996	
Penta	PCB-89	*	*	n NotF $\eta$	1.02	*		1600	2.5	2.77	*	0.991-1.001	

Analyst: m

Date: 9/11/14

Type	Name	Resp	RA	RT	RFR	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	3.98e+05	1.52	y 37:16	1.19	19.7		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-113	*	*	n NotF $\eta$	1.35	*		1600	2.5	2.09	*	1.002-1.012	
Penta	PCB-99	1.13e+05	2.47	n 37:36	1.29	5.14	R	*	2.5	*	1.009	1.005-1.015	
Penta	PCB-119	*	*	n NotF $\eta$	1.72	*		1600	2.5	1.99	*	0.982-0.992	
Penta	PCB-108/112	*	*	n NotF $\eta$	1.29	*		1600	2.5	2.66	*	0.986-0.996	
Penta	PCB-83	*	*	n NotF $\eta$	1.52	*		1600	2.5	2.26	*	0.991-1.001	
Penta	PCB-97	1.22e+05	1.60	y 38:34	1.25	6.71		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-86	*	*	n NotF $\eta$	1.02	*		1600	2.5	3.36	*	1.000-1.010	
Penta	PCB-87/117/125	1.87e+05	1.68	y 38:51	1.56	8.26		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	*	*	n NotF $\eta$	1.75	*		1600	2.5	1.96	*	1.007-1.017	
Penta	PCB-85/116	6.21e+04	1.48	y 39:07	1.30	3.28		*	2.5	*	1.015	1.010-1.020	
Penta	PCB-120	*	*	n NotF $\eta$	1.78	*		1600	2.5	1.93	*	1.016-1.026	
Penta	PCB-110	4.60e+05	1.57	y 39:30	1.68	18.8		*	2.5	*	1.025	1.020-1.030	
Penta	PCB-82	*	*	n NotF $\eta$	0.74	*		1600	2.5	3.70	*	0.972-0.982	
Penta	PCB-124	*	*	n NotF $\eta$	1.32	*		1600	2.5	2.07	*	0.988-0.998	
Penta	PCB-107/109	*	*	n NotF $\eta$	1.22	*		1600	2.5	2.24	*	0.991-1.001	
Penta	PCB-123	*	*	n NotF $\eta$	1.22	*		1600	2.5	2.24	*	0.995-1.005	
Penta	PCB-106/118	4.01e+05	1.76	y 41:17	1.22	17.3		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	*	*	n NotF $\eta$	1.36	*		2430	2.5	1.30	*	0.995-1.005	
Penta	PCB-122	*	*	n NotF $\eta$	1.24	*		2430	2.5	1.43	*	0.999-1.009	
Penta	PCB-105	3.86e+05	1.76	y 42:49	1.28	6.89		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF $\eta$	1.14	*		2430	2.5	1.38	*	0.995-1.005	
Penta	PCB-126	*	*	n NotF $\eta$	1.28	*		2430	2.5	1.58	*	0.995-1.005	
Hexa	PCB-155	*	*	n NotF $\eta$	1.14	*		930	2.5	1.92	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF $\eta$	1.06	*		930	2.5	2.05	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF $\eta$	1.10	*		930	2.5	1.98	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF $\eta$	1.09	*		930	2.5	1.99	*	1.055-1.065	
Hexa	PCB-136	3.30e+04	1.37	y 39:18	1.08	2.77		*	2.5	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF $\eta$	0.74	*		930	2.5	2.94	*	1.066-1.076	
Hexa	PCB-154	*	*	n NotF $\eta$	0.88	*		930	2.5	2.46	*	1.079-1.089	
Hexa	PCB-151	3.05e+04	1.11	y 40:33	0.81	3.44		*	2.5	*	1.102	1.097-1.107	
Hexa	PCB-135	*	*	n NotF $\eta$	0.78	*		930	2.5	2.79	*	1.101-1.113	
Hexa	PCB-144	*	*	n NotF $\eta$	0.82	*		930	2.5	2.66	*	1.105-1.116	
Hexa	PCB-147	*	*	n NotF $\eta$	0.83	*		930	2.5	2.63	*	1.011-1.120	
Hexa	PCB-139/149	1.23e+05	1.19	y 41:15	0.84	13.3		*	2.5	*	1.121	1.115-1.127	
Hexa	PCB-140	*	*	n NotF $\eta$	0.79	*		930	2.5	2.77	*	1.120-1.132	
Hexa	PCB-134/143	3.76e+04	1.10	y 41:54	0.93	1.35		*	2.5	*	0.976	0.970-0.980	

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Date: 9/11/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n	NotF $\eta$	0.95	*	2170	2.5	2.07	*	0.977-0.987	
Hexa	PCB-131	*	*	n	NotF $\eta$	0.91	*	2170	2.5	2.14	*	0.981-0.991	
Hexa	PCB-146/165	1.10e+05	1.37	y	42:34	1.16	3.18	*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	1.95e+05	1.28	y	42:50	1.11	5.82	*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	6.71e+05	1.12	y	42:57	1.18	18.9	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n	NotF $\eta$	1.37	*	2170	2.5	1.43	*	1.000-1.010	
Hexa	PCB-141	1.23e+05	1.23	y	43:42	0.97	4.40	*	2.5	*	1.000	0.996-1.005	
Hexa	PCB-137	4.85e+04	1.19	y	44:06	1.07	1.58	*	2.5	*	1.010	1.004-1.014	
Hexa	PCB-130	2.70e+04	2.06	n	44:11	0.85	1.11	R	*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	8.21e+05	1.38	y	44:33	1.23	25.5	*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	1.01e+05	1.40	y	44:47	1.29	2.98	*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	*	*	n	NotF $\eta$	0.92	*	2170	2.5	2.48	*	1.007-1.017	
Hexa	PCB-166	*	*	n	NotF $\eta$	1.12	*	2170	2.5	1.69	*	0.988-0.998	
Hexa	PCB-159	*	*	n	NotF $\eta$	1.16	*	2170	2.5	1.62	*	0.995-1.005	
Hexa	PCB-128/162	1.49e+05	1.20	y	46:06	1.02	4.84	*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	4.42e+04	1.14	y	46:30	1.06	1.30	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	1.12e+05	1.08	y	47:48	1.18	3.33	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-157	*	*	n	NotF $\eta$	1.08	*	2170	2.5	1.96	*	0.995-1.005	
Hexa	PCB-169	*	*	n	NotF $\eta$	1.11	*	2170	2.5	2.54	*	0.995-1.005	
Hepta	PCB-188	*	*	n	NotF $\eta$	1.40	*	1680	2.5	1.16	*	0.995-1.005	
Hepta	PCB-184	*	*	n	NotF $\eta$	1.24	*	1680	2.5	1.31	*	1.006-1.016	
Hepta	PCB-179	5.31e+04	0.76	n	43:49	1.30	2.29	R	*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	*	*	n	NotF $\eta$	1.36	*	1680	2.5	1.19	*	1.035-1.045	
Hepta	PCB-186	*	*	n	NotF $\eta$	1.28	*	1680	2.5	1.27	*	1.049-1.059	
Hepta	PCB-178	*	*	n	NotF $\eta$	0.94	*	1680	2.5	1.73	*	1.061-1.071	
Hepta	PCB-175	*	*	n	NotF $\eta$	0.97	*	1680	2.5	1.68	*	1.069-1.079	
Hepta	PCB-182/187	9.44e+04	0.91	y	45:53	1.01	5.24	*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	6.00e+04	1.14	y	46:13	1.08	3.12	*	2.5	*	1.085	1.080-1.090	
Hepta	PCB-185	*	*	n	NotF $\eta$	1.34	*	1680	2.5	2.18	*	0.951-0.961	
Hepta	PCB-174	7.13e+04	0.77	n	47:14	1.34	5.34	R	*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n	NotF $\eta$	1.36	*	1680	2.5	2.15	*	0.961-0.971	
Hepta	PCB-177	4.06e+04	1.14	y	47:31	1.24	3.28	*	2.5	*	0.968	0.964-0.974	
Hepta	PCB-171	*	*	n	NotF $\eta$	1.31	*	1680	2.5	2.23	*	0.970-0.980	
Hepta	PCB-173	*	*	n	NotF $\eta$	1.16	*	1680	2.5	2.52	*	0.979-0.989	
Hepta	PCB-172	*	*	n	NotF $\eta$	1.22	*	1680	2.5	2.40	*	0.988-0.998	
Hepta	PCB-192	*	*	n	NotF $\eta$	1.53	*	1680	2.5	1.92	*	0.991-1.001	
Hepta	PCB-180	2.23e+05	1.13	y	49:05	1.43	15.6	*	2.5	*	1.000	0.995-1.005	

Analyst: m

Date: 9/11/14

Client ID: QC-EB-01-20140903-W  
Lab ID: 1400647-01

Filename: 140910E2  
GC Column ID: ZB-1

S:5 Acq:11-SEP-14 04:17:36  
ICal: PCBVG8-6-20-14 wt/vol: 0.980

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n	NotF $\eta$	1.65	*	1680	2.5	1.77	*	0.999-1.009	
Hepta	PCB-191	*	*	n	NotF $\eta$	1.67	*	1680	2.5	1.75	*	1.004-1.014	
Hepta	PCB-170	6.52e+04	1.04	y	50:34	1.50	7.11	*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	*	*	n	NotF $\eta$	2.02	*	1680	2.5	2.15	*	0.998-1.008	
Hepta	PCB-189	*	*	n	NotF $\eta$	1.54	*	1680	2.5	2.27	*	0.995-1.005	
Octa	PCB-202	*	*	n	NotF $\eta$	1.04	*	830	2.5	2.29	*	0.995-1.005	
Octa	PCB-201	*	*	n	NotF $\eta$	1.10	*	830	2.5	2.16	*	1.006-1.016	
Octa	PCB-204	*	*	n	NotF $\eta$	0.99	*	830	2.5	2.40	*	1.009-1.019	
Octa	PCB-197	*	*	n	NotF $\eta$	1.07	*	830	2.5	2.22	*	1.015-1.025	
Octa	PCB-200	*	*	n	NotF $\eta$	1.02	*	830	2.5	2.34	*	1.032-1.044	
Octa	PCB-198	*	*	n	NotF $\eta$	0.74	*	830	2.5	3.21	*	1.058-1.068	
Octa	PCB-199	2.49e+04	0.88	y	51:16	0.73	4.22	*	2.5	*	1.068	1.060-1.070	
Octa	PCB-196/203	2.79e+04	0.83	y	51:33	0.77	4.47	*	2.5	*	1.074	1.066-1.076	
Octa	PCB-195	3.81e+04	0.82	y	52:43	1.20	1.74	*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	8.69e+04	0.93	y	53:35	1.25	3.83	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	*	*	n	NotF $\eta$	1.41	*	1570	2.5	1.06	*	1.001-1.011	
Nona	PCB-208	*	*	n	NotF $\eta$	0.96	*	1360	2.5	1.23	*	0.995-1.005	
Nona	PCB-207	*	*	n	NotF $\eta$	0.92	*	1360	2.5	1.29	*	1.001-1.011	
Nona	PCB-206	3.03e+04	1.34	y	55:13	1.03	2.56	*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	*	*	n	NotF $\eta$	1.18	*	990	2.5	2.24	*	0.995-1.005	

Analyst: MJ

Date: 9/11/14



Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	6.00e+05	2.82 y	16:13	1.22	5.91150	
Total Di-PCB	3.88e+06	1.48 y	22:51	1.21	39.4692	
Total Tri-PCB	1.25e+06	0.98 y	24:08	1.16	22.6686	
Total Tri-PCB	2.64e+06	0.93 y	28:19	1.35	29.6596	Sum:52.3283
Total Tetra-PCB	3.60e+06	0.68 y	30:22	1.17	73.1234	
Total Penta-PCB	2.05e+06	1.72 y	35:36	1.21	95.3824	
Total Penta-PCB	3.86e+05	1.76 y	42:49	1.26	6.89245	Sum:102.275
Total Hexa-PCB	1.86e+05	1.37 y	39:18	0.92	19.4720	
Total Hexa-PCB	2.41e+06	1.10 y	41:54	1.08	73.1730	Sum:92.6450
Total Hepta-PCB	4.83e+05	0.91 y	45:53	1.27	34.3572	
Total Octa-PCB	5.28e+04	0.88 y	51:16	0.92	8.68859	
Total Octa-PCB	1.25e+05	0.82 y	52:43	1.29	5.57539	Sum:14.2640
Total Nona-PCB	3.03e+04	1.34 y	55:13	0.96	2.55866	
Total Deca-PCB	*	* n	NotFnd	1.18	*	

Total PCB Conc: ~~436.702~~ 074000

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Integrations

by

Analyst: M

Date: 9/11/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.71e+08	3.32 y	0.89	16:12	0.628	0.622-0.628		1950	95.6
13C-PCB-3	1.67e+08	3.34 y	0.93	18:45	0.727	0.721-0.729		1830	89.5
13C-PCB-4	9.91e+07	1.60 y	0.55	20:03	0.777	0.772-0.780		1830	89.9
13C-PCB-9	1.56e+08	1.61 y	0.83	21:48	0.845	0.840-0.848		1920	94.0
13C-PCB-11	1.75e+08	1.61 y	0.94	25:07	0.974	0.968-0.978		1890	92.9
13C-PCB-32	1.22e+08	1.12 y	0.81	26:59	1.046	1.041-1.051		1520	74.4
13C-PCB-19	8.29e+07	1.11 y	0.53	24:07	0.935	0.929-0.939		1580	77.3
13C-PCB-28	1.33e+08	1.04 y	0.89	28:55	1.004	0.999-1.009		1850	90.6
13C-PCB-52	8.05e+07	0.81 y	0.71	31:18	0.857	0.853-0.861		2160	106
13C-PCB-54	1.10e+08	0.80 y	0.85	27:49	0.762	0.758-0.766		2460	120
13C-PCB-37	1.29e+08	1.08 y	0.83	32:45	1.137	1.131-1.143		1910	93.7
13C-PCB-47	8.40e+07	0.79 y	0.74	31:48	0.871	0.867-0.875		2140	105
13C-PCB-81	8.66e+07	0.81 y	0.84	38:47	1.062	1.057-1.067		1960	96.1
13C-PCB-70	9.78e+07	0.80 y	0.94	35:17	0.966	0.961-0.971		1970	96.4
13C-PCB-80	1.01e+08	0.81 y	0.96	35:42	0.978	0.972-0.982		1990	97.5
13C-PCB-104	5.20e+07	1.65 y	1.00	32:27	0.832	0.829-0.837		2420	119
13C-PCB-101	3.47e+07	1.68 y	0.79	37:15	0.956	0.951-0.961		2050	101
13C-PCB-95	3.48e+07	1.66 y	0.74	35:35	0.913	0.908-0.918		2170	106
13C-PCB-77	8.87e+07	0.82 y	0.89	39:23	1.079	1.073-1.083		1880	92.3
13C-PCB-114	8.64e+07	1.63 y	1.21	41:56	0.910	0.905-0.915		2820	138
13C-PCB-118	3.86e+07	1.67 y	0.98	41:17	1.059	1.054-1.064		1820	89.3
13C-PCB-123	3.67e+07	1.66 y	0.95	41:06	1.054	1.049-1.059		1790	87.9
13C-PCB-97	2.97e+07	1.66 y	0.69	38:33	0.989	0.984-0.994		2000	98.0
13C-PCB-127	9.64e+07	1.60 y	1.34	43:08	0.936	0.931-0.941		2830	139
13C-PCB-105	8.90e+07	1.62 y	1.24	42:48	0.929	0.924-0.934		2830	139
13C-PCB-141	5.85e+07	1.32 y	1.07	43:41	0.948	0.943-0.953		2150	105
13C-PCB-153	6.13e+07	1.30 y	1.11	42:57	0.932	0.927-0.937		2170	106
13C-PCB-155	2.24e+07	1.31 y	0.83	36:48	0.944	0.939-0.949		1250	61.2
13C-PCB-126	8.06e+07	1.66 y	1.16	45:02	0.977	0.972-0.982		2730	134
13C-PCB-167	6.54e+07	1.31 y	1.32	46:29	1.009	1.004-1.014		1950	95.6
13C-PCB-156	5.80e+07	1.31 y	1.24	47:47	1.037	1.032-1.042		1830	89.9
13C-PCB-138	5.37e+07	1.32 y	1.04	44:31	0.966	0.961-0.971		2020	99.3
13C-PCB-159	6.16e+07	1.28 y	1.20	45:49	0.994	0.989-0.999		2020	99.2
13C-PCB-157	6.05e+07	1.29 y	1.31	48:03	1.043	1.037-1.047		1820	89.1
13C-PCB-180	2.04e+07	0.47 y	0.67	49:04	1.065	1.059-1.069		1190	58.4
13C-PCB-188	3.62e+07	0.47 y	0.94	42:35	0.924	0.919-0.929		1530	74.8
13C-PCB-169	4.26e+07	1.31 y	1.22	50:12	1.089	1.082-1.092		1380	67.7
13C-PCB-170	1.25e+07	0.49 y	0.54	50:34	1.097	1.089-1.101		917	44.9
13C-PCB-202	1.65e+07	0.97 y	0.83	47:59	1.041	1.036-1.046		780	38.2
13C-PCB-189	1.54e+07	0.48 y	0.72	52:03	1.129	1.120-1.132		848	41.6
13C-PCB-208	3.72e+07	0.78 y	1.12	52:50	0.981	0.976-0.986		1460	71.4
13C-PCB-194	3.72e+07	0.92 y	0.81	53:34	0.995	0.990-1.000		2020	98.9
13C-PCB-206	2.35e+07	0.81 y	0.66	55:13	1.025	1.021-1.031		1570	76.9
13C-PCB-209	1.77e+07	1.16 y	0.61	56:36	1.051	1.044-1.054		1270	62.1

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.12e+08	0.80 y	1.01	37:34	1.029	1.023-1.033		2120	104
13C-PCB-178	2.51e+07	0.47 y	0.63	45:22	0.984	0.979-0.989		1570	76.9

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.12e+08	0.80 y	1.20	37:34	0.969	0.963-0.973		2210	108
13C-PCB-178	2.51e+07	0.47 y	0.94	45:22	0.925	0.920-0.930		2680	132

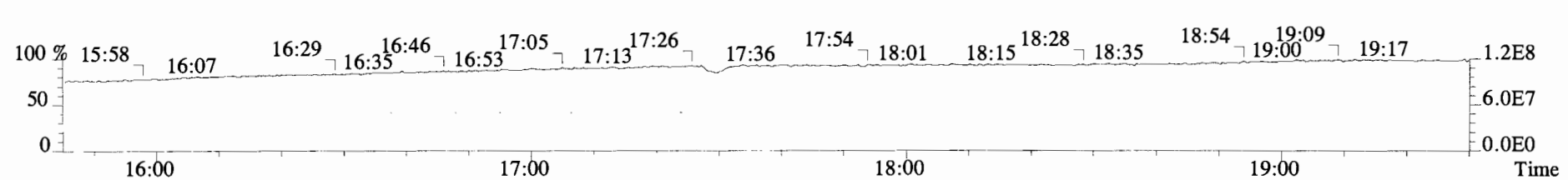
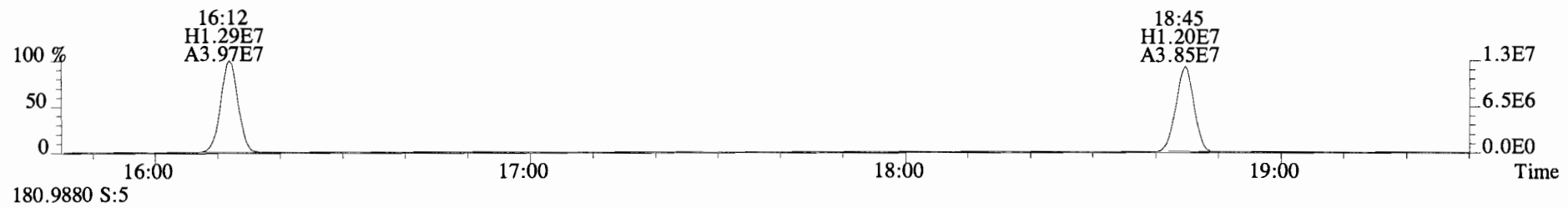
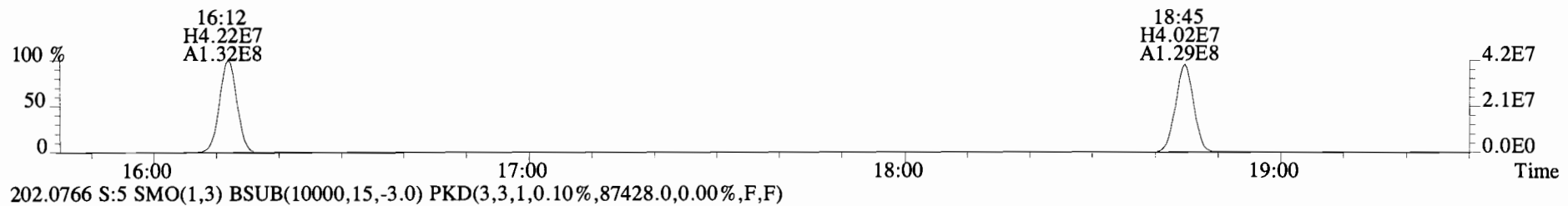
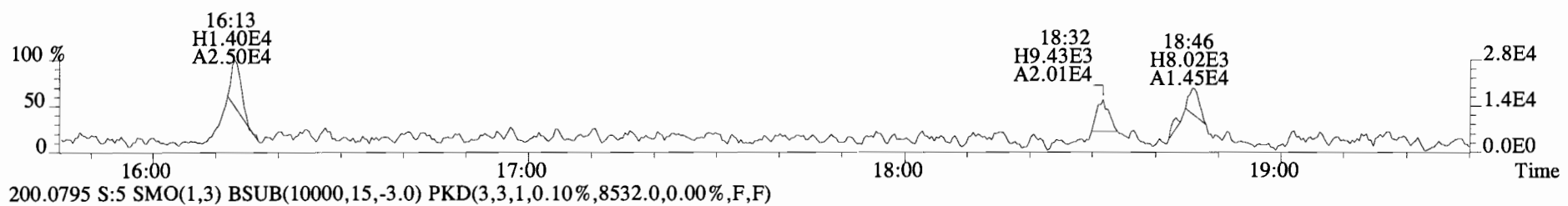
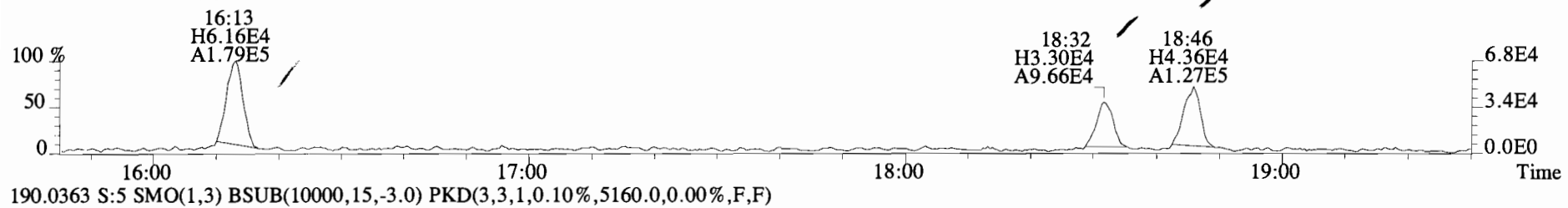
RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	2.01e+08	1.63 y	1.00	25:48	2040
13C-PCB-31	1.66e+08	1.05 y	1.00	28:48	2040
13C-PCB-60	1.08e+08	0.79 y	1.00	36:31	2040
13C-PCB-111	4.39e+07	1.69 y	1.00	38:59	2040
13C-PCB-128	5.18e+07	1.29 y	1.00	46:05	2040
13C-PCB-205	4.64e+07	0.93 y	1.00	53:51	2040

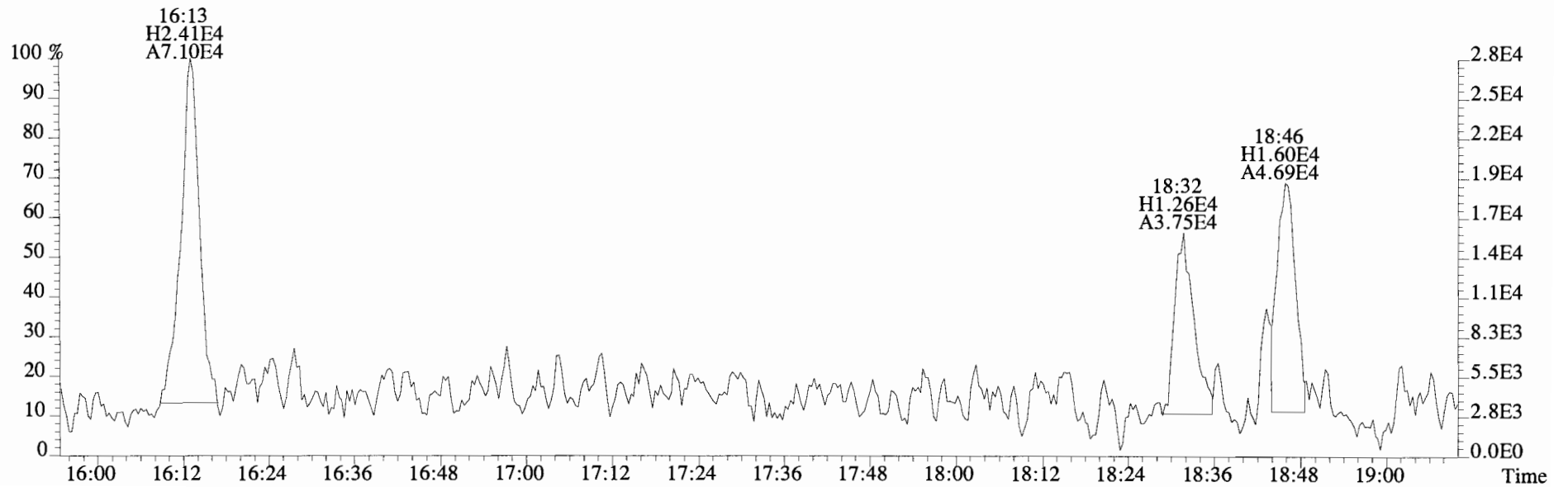
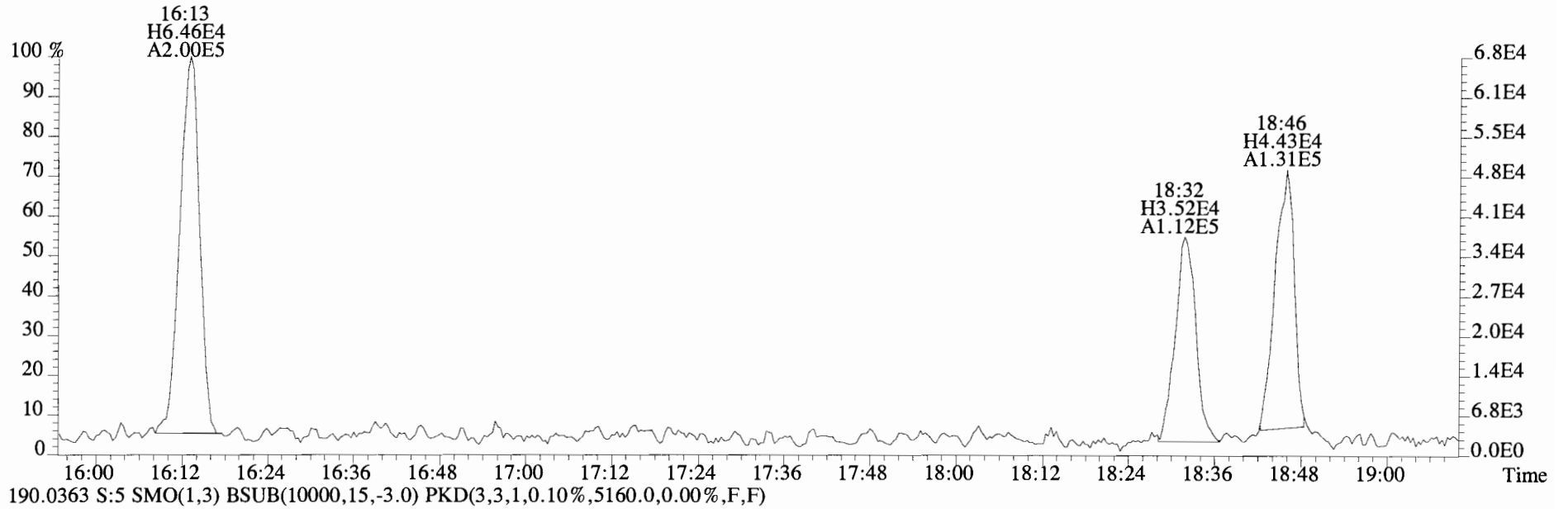
Analyst: ms

Date: 9/11/14

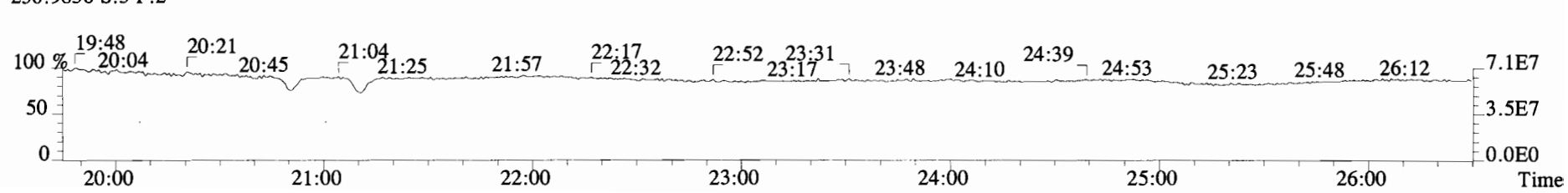
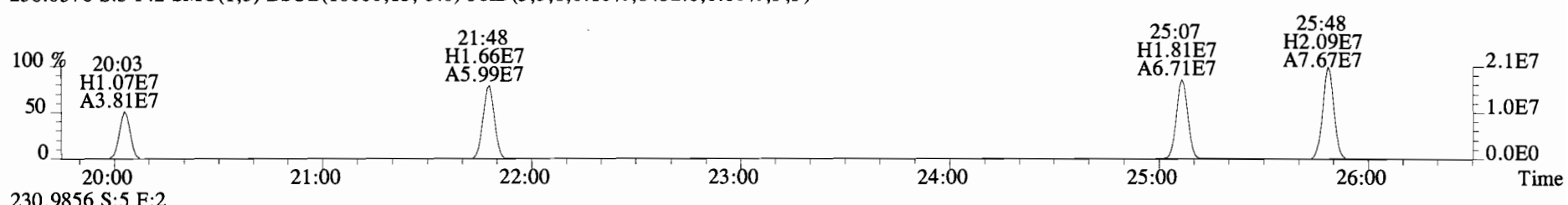
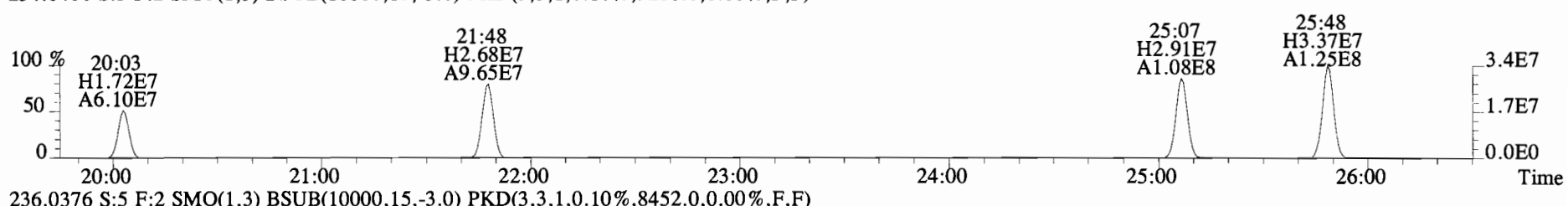
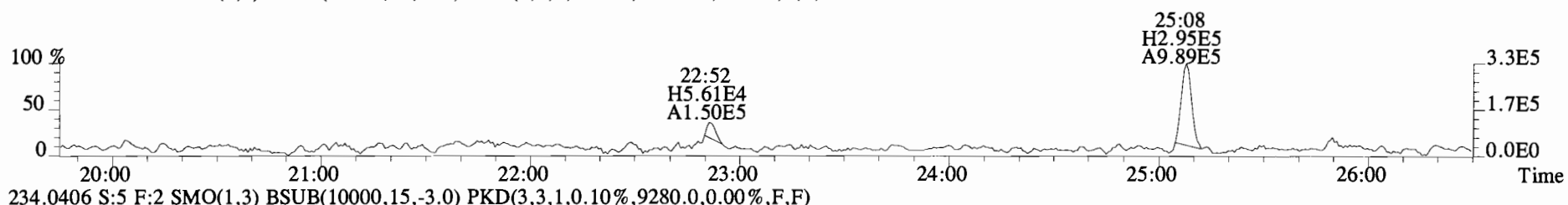
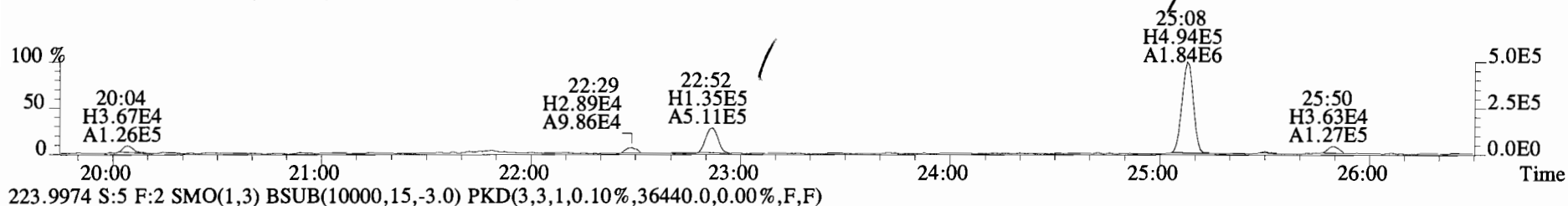
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188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3804.0,0.00%,F,F)



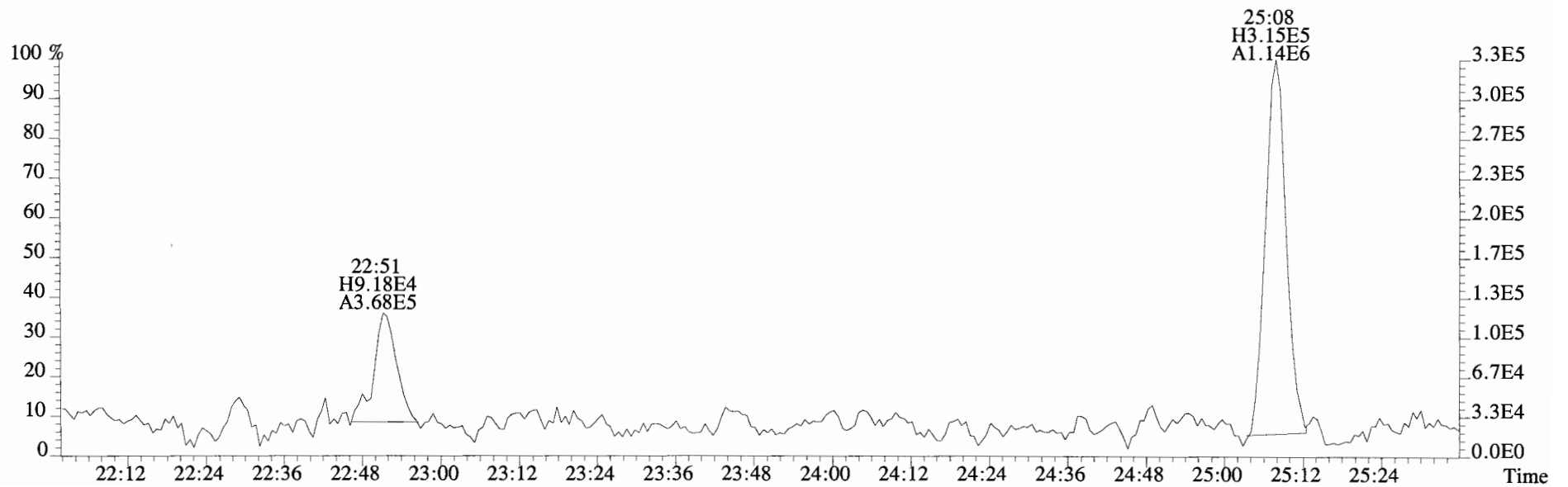
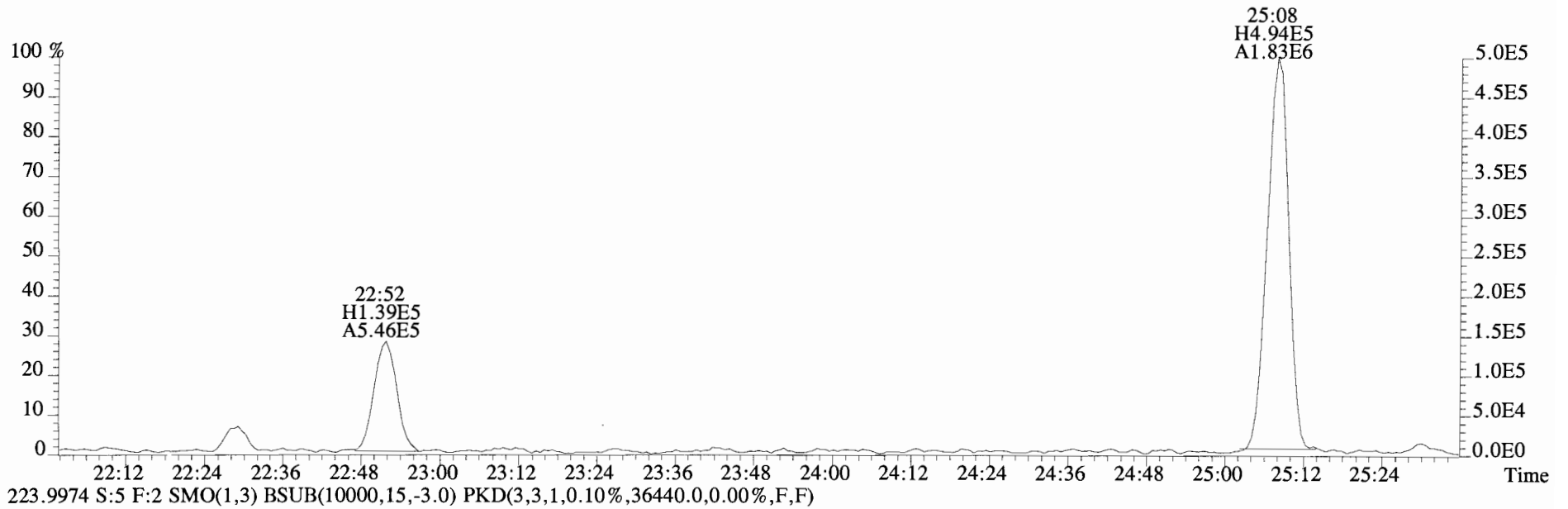
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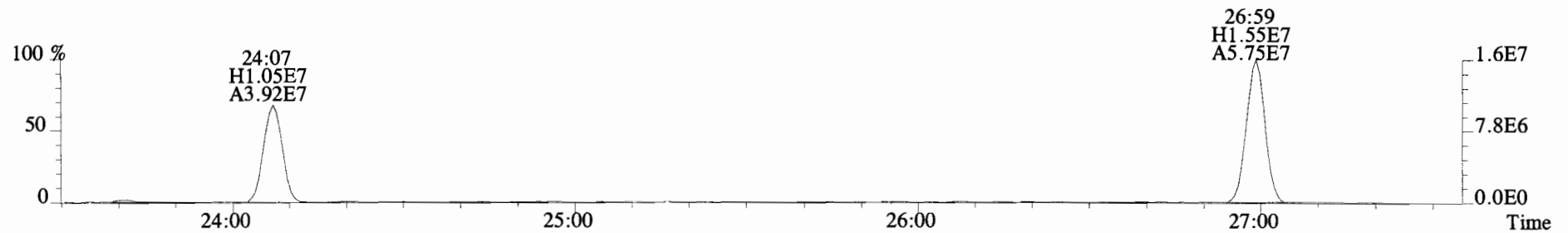
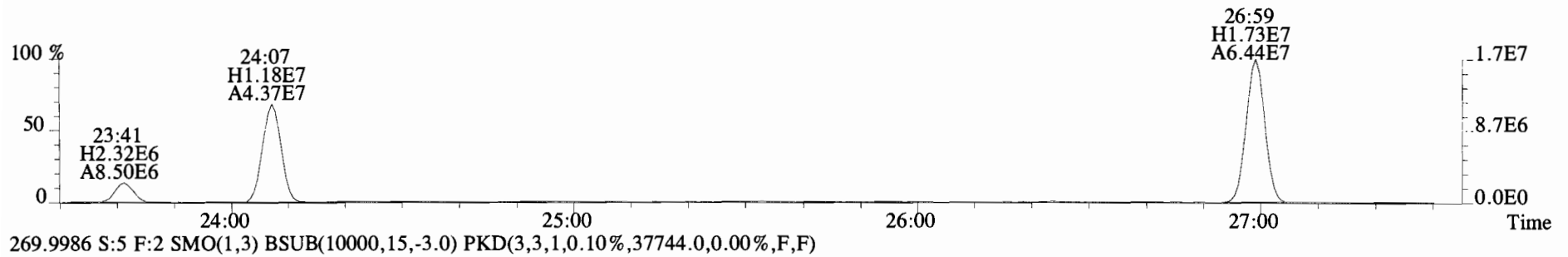
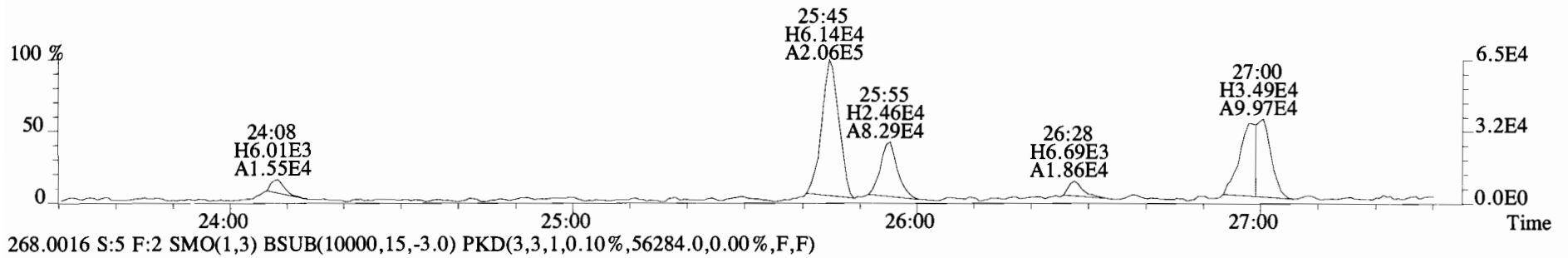
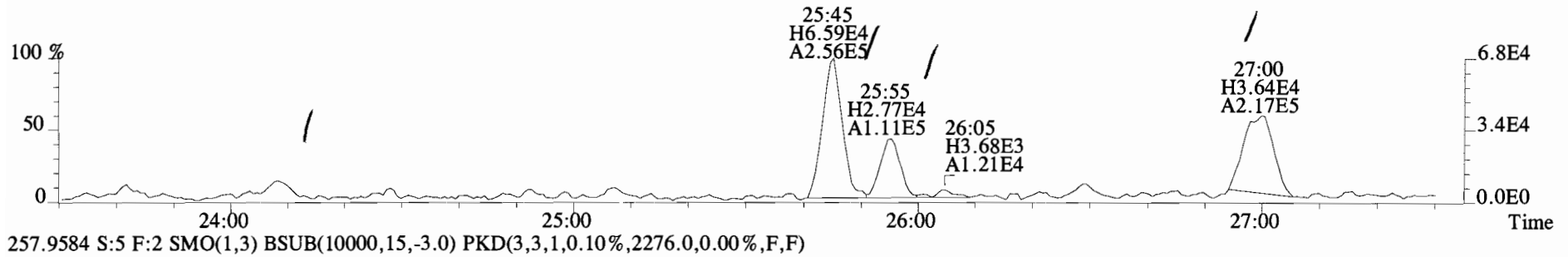
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 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
 222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7216.0,0.00%,F,F)



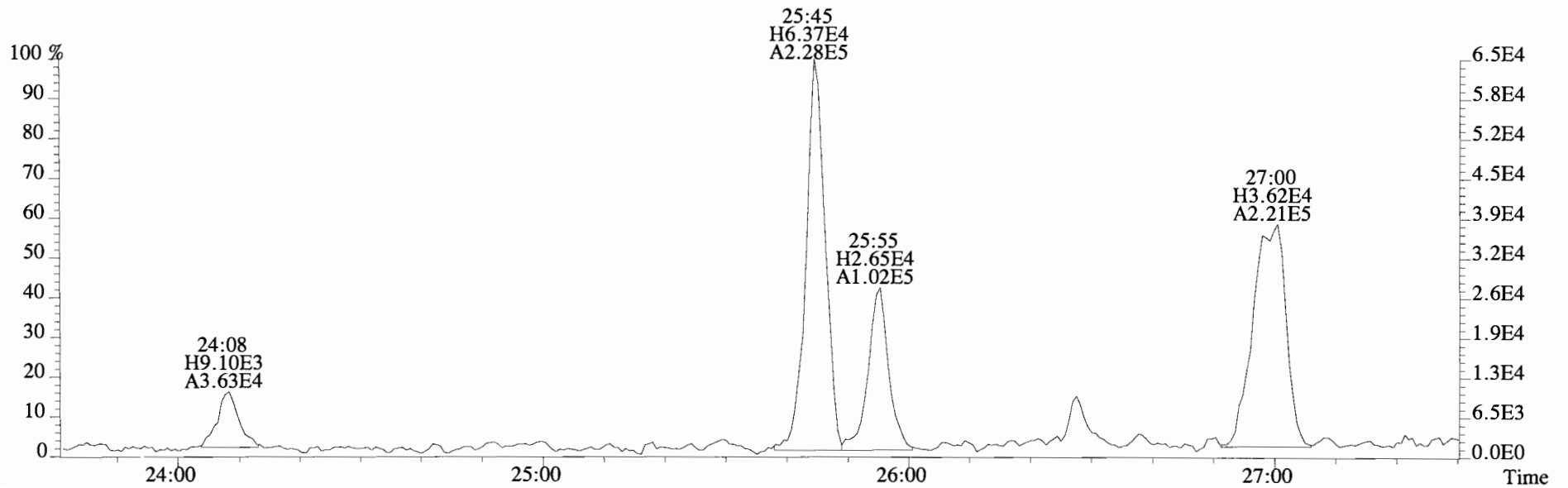
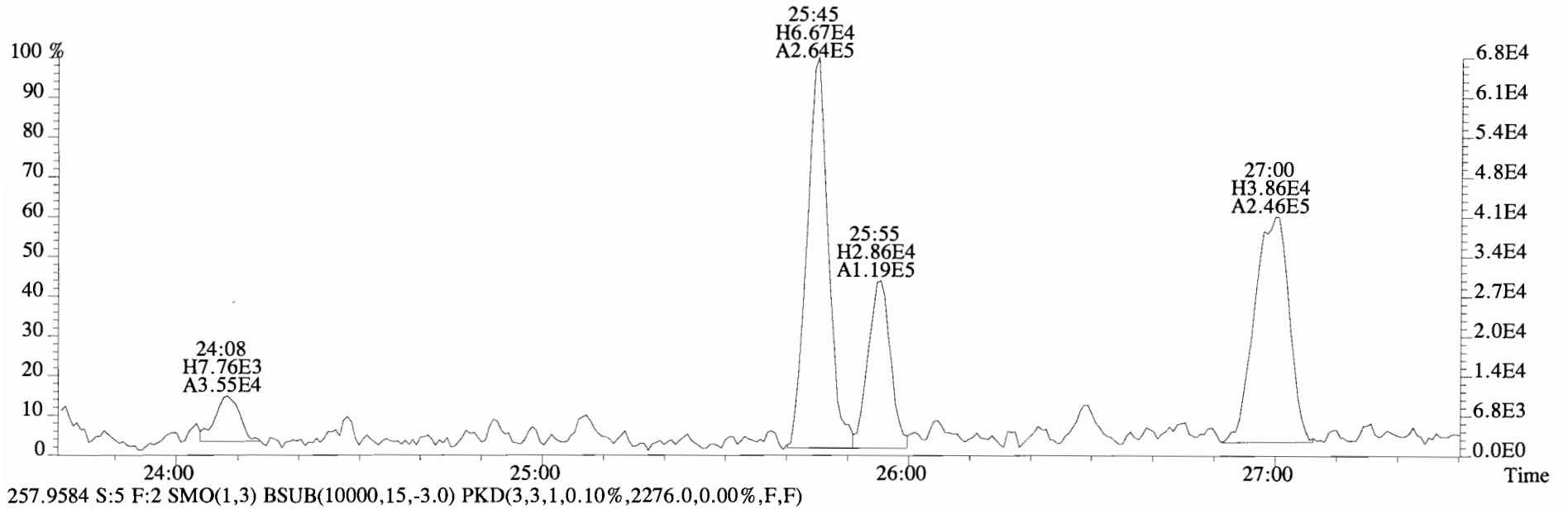
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7216.0,0.00%,F,F)



File:140910E2 #1-757 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3880.0,0.00%,F,F)

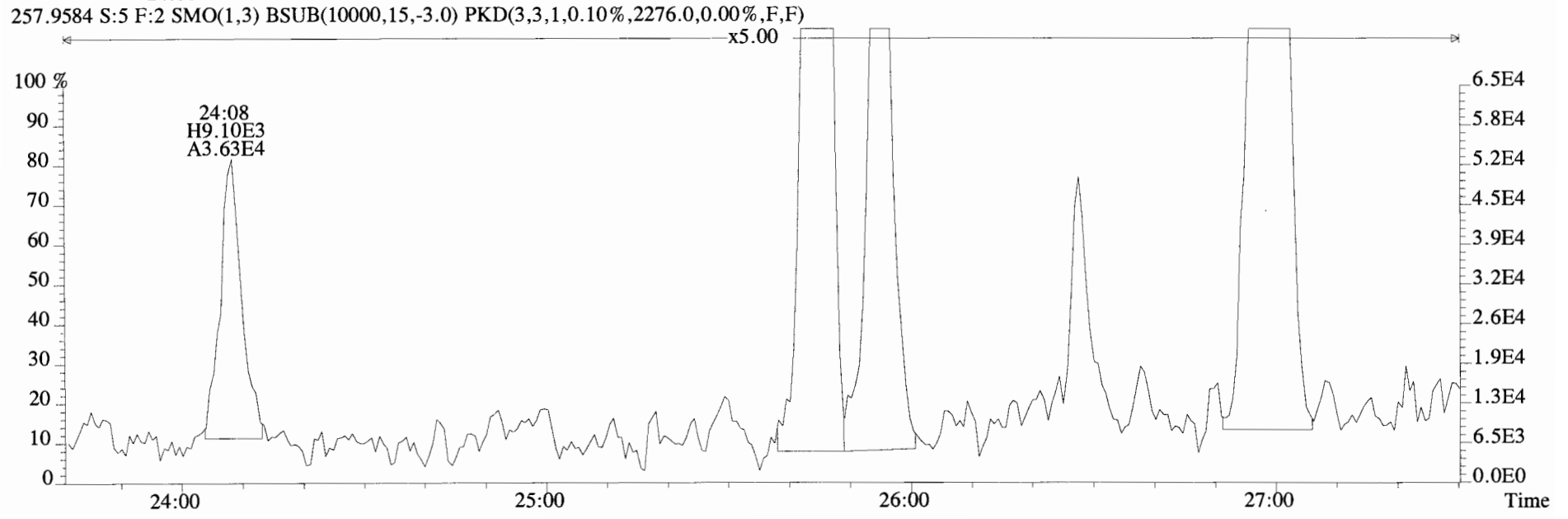
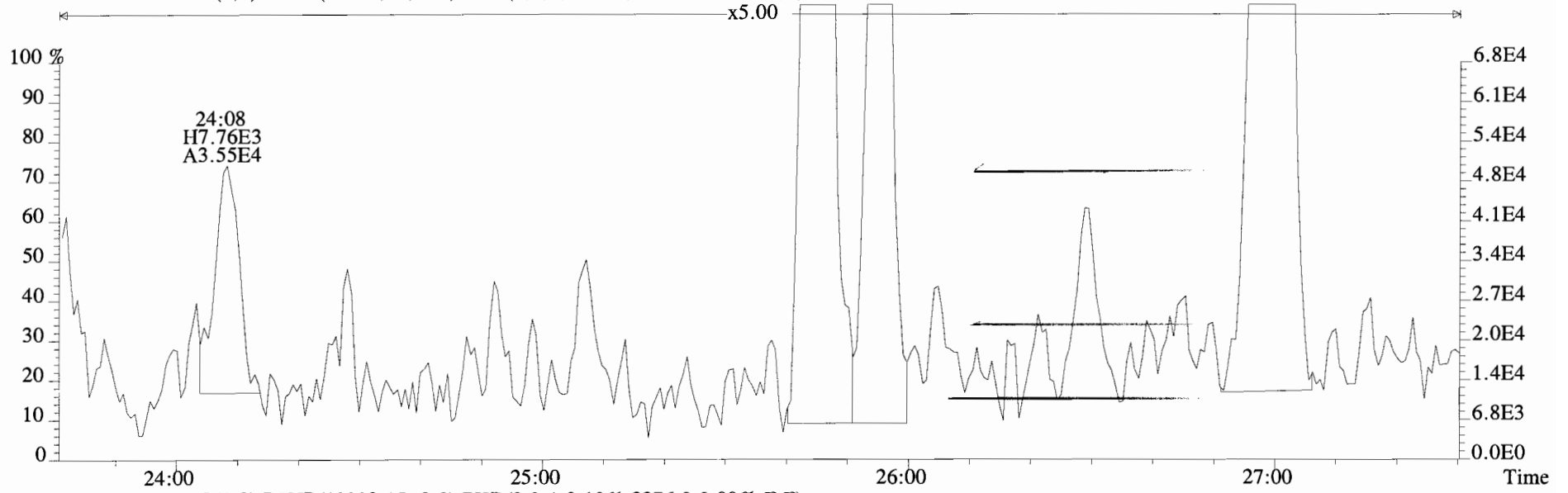


File:140910E2 #1-757 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
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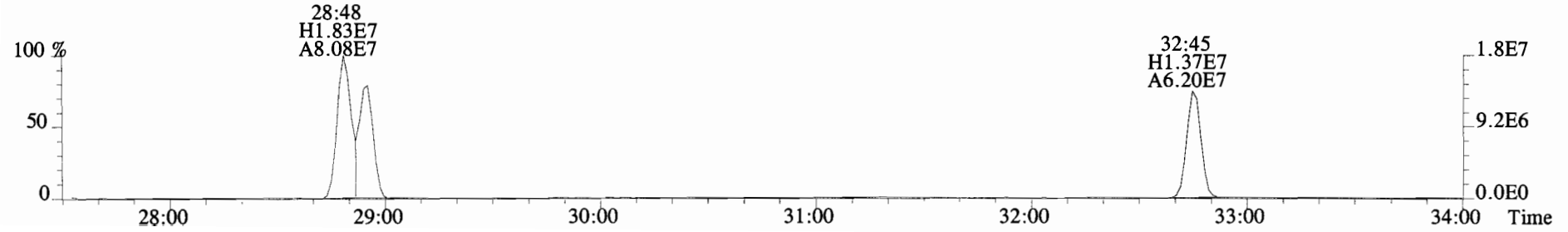
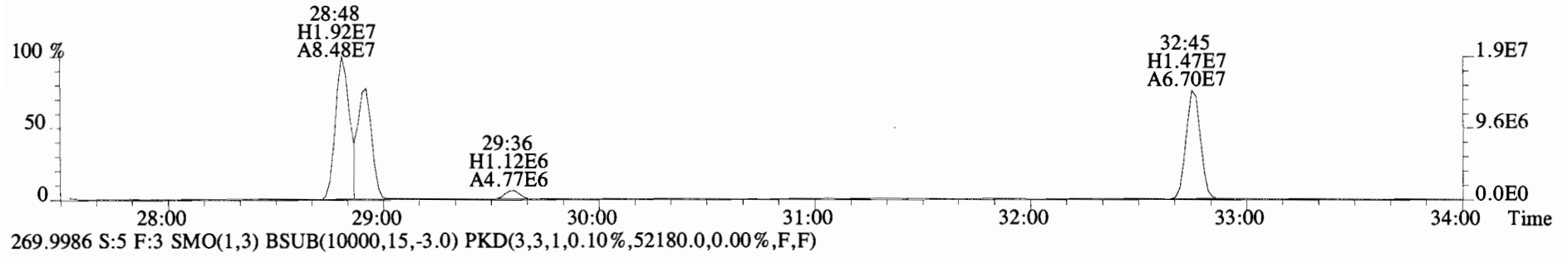
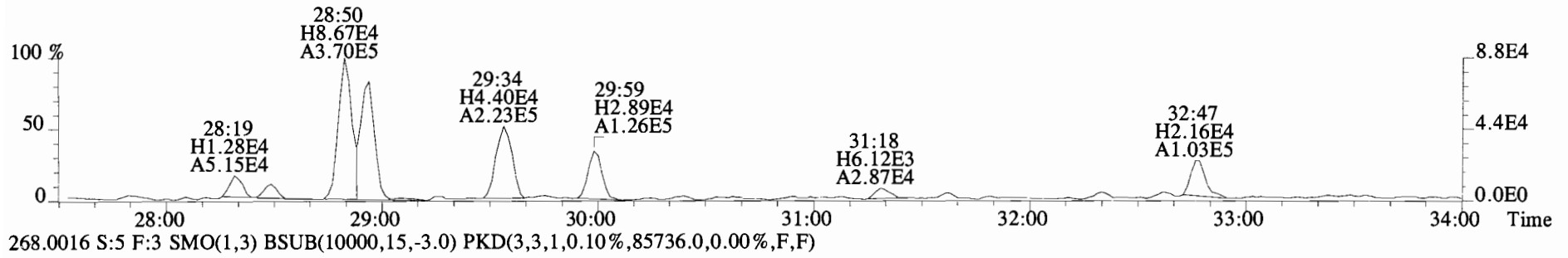
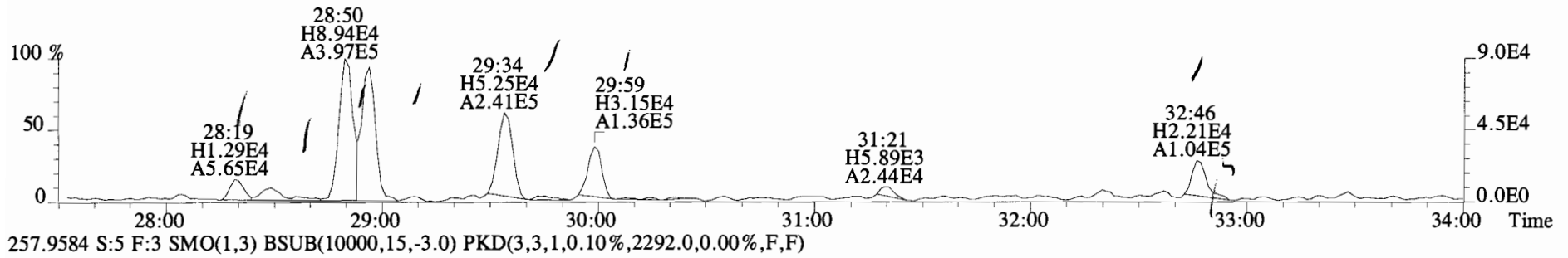




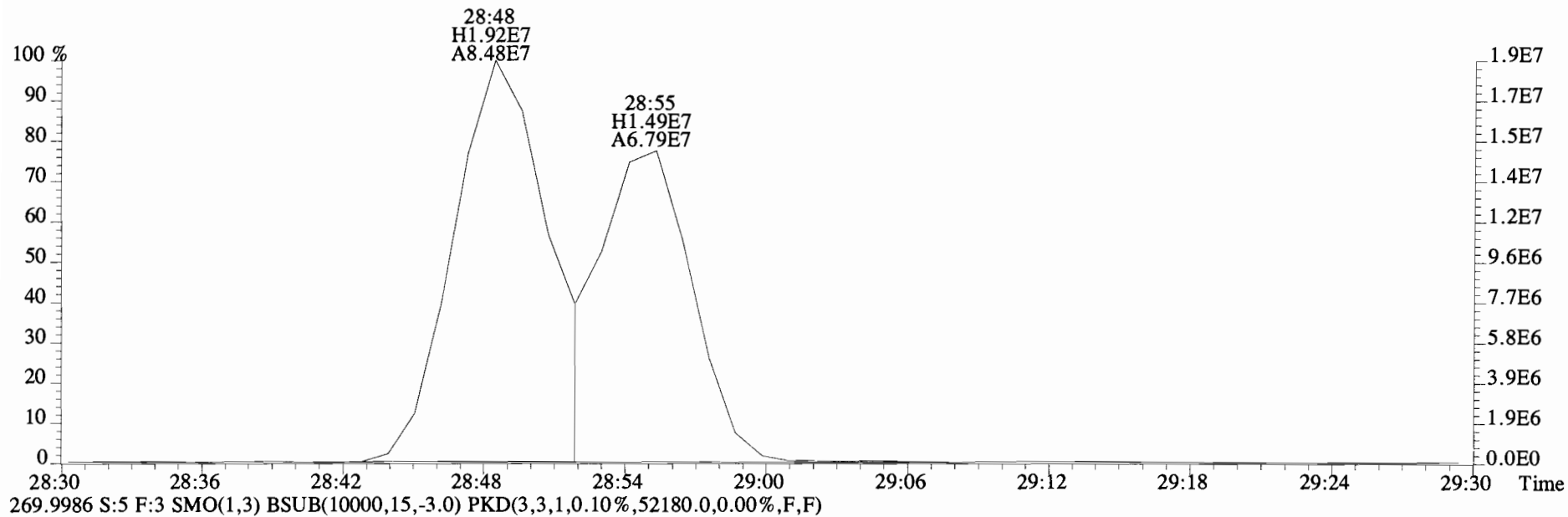
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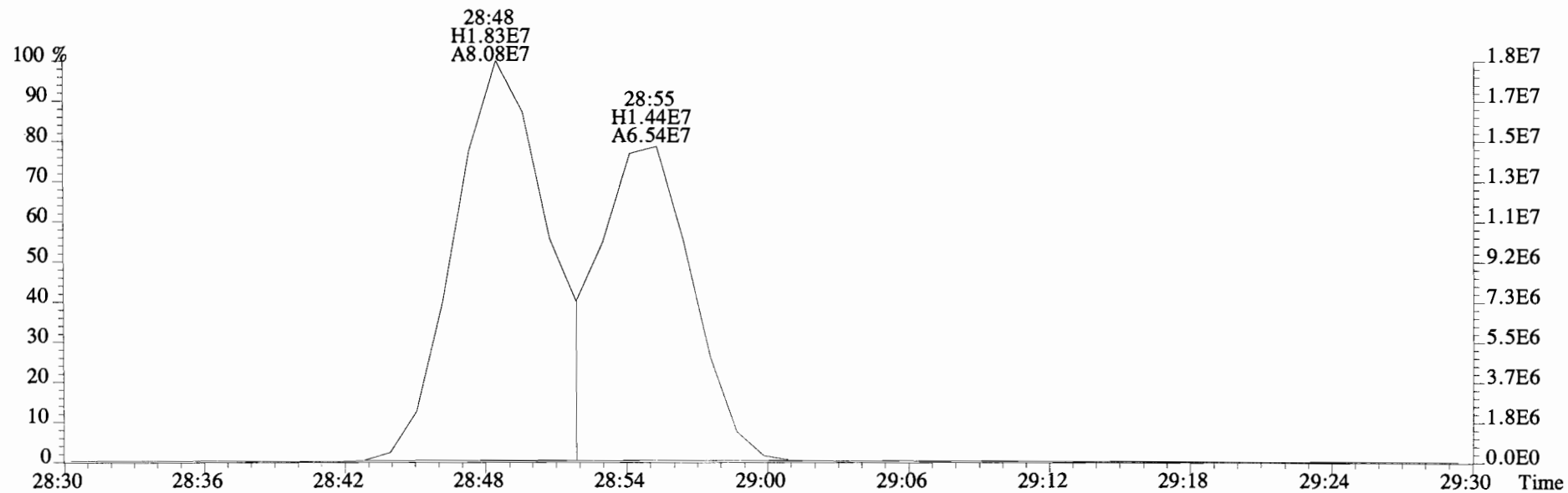
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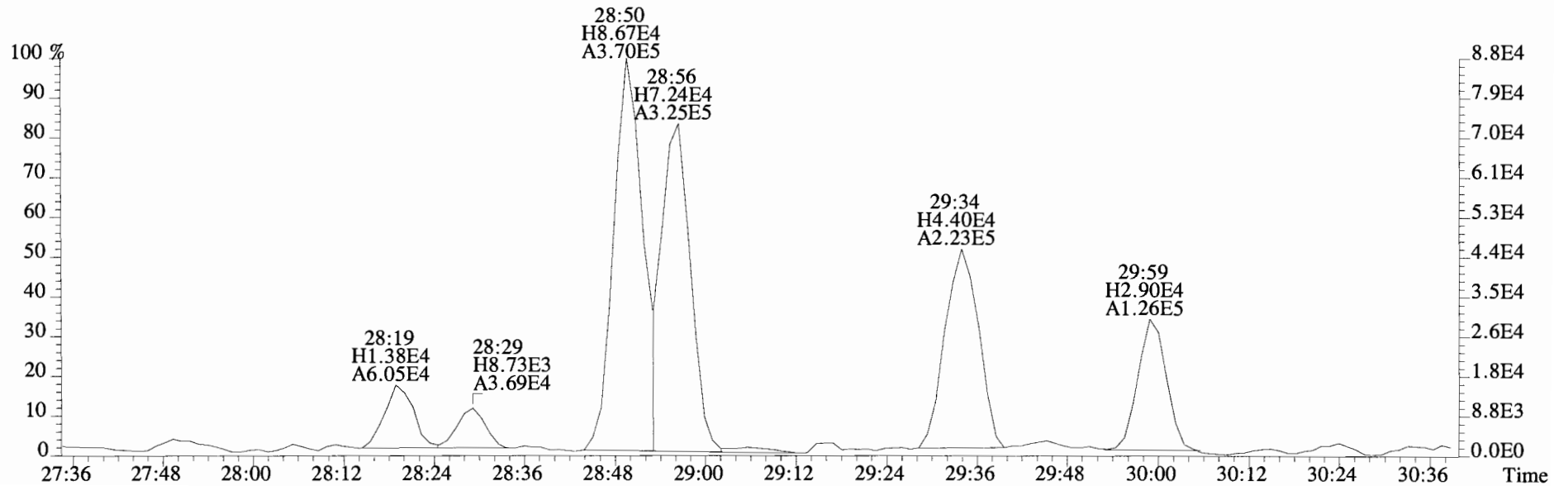
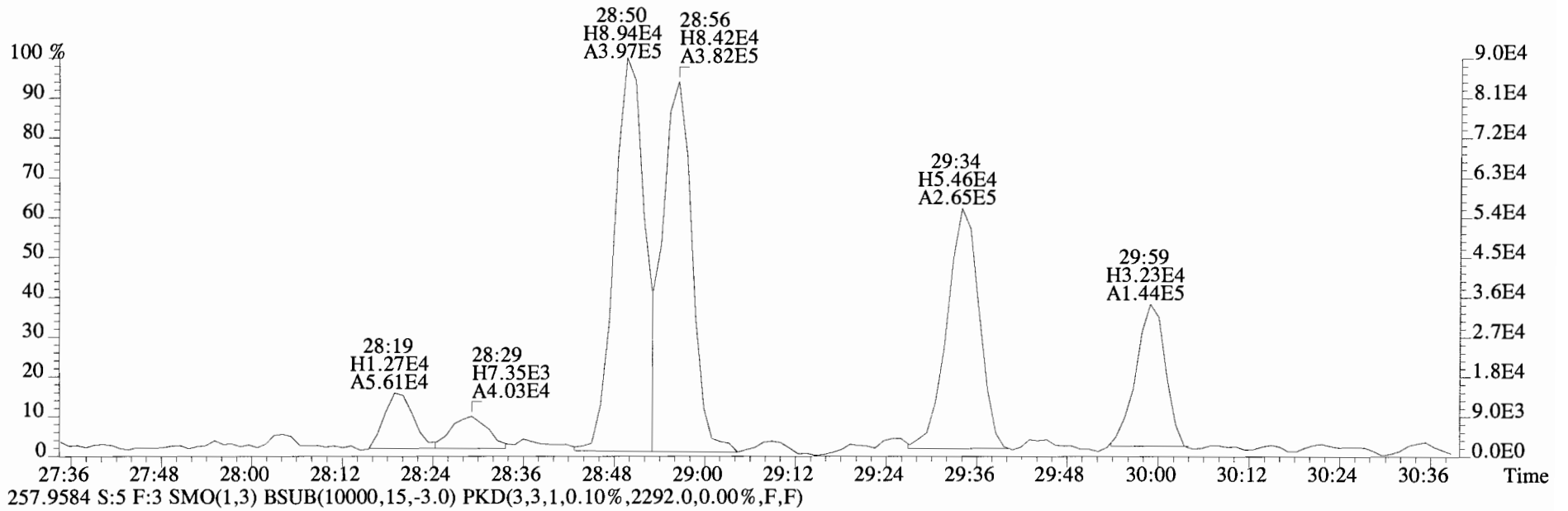
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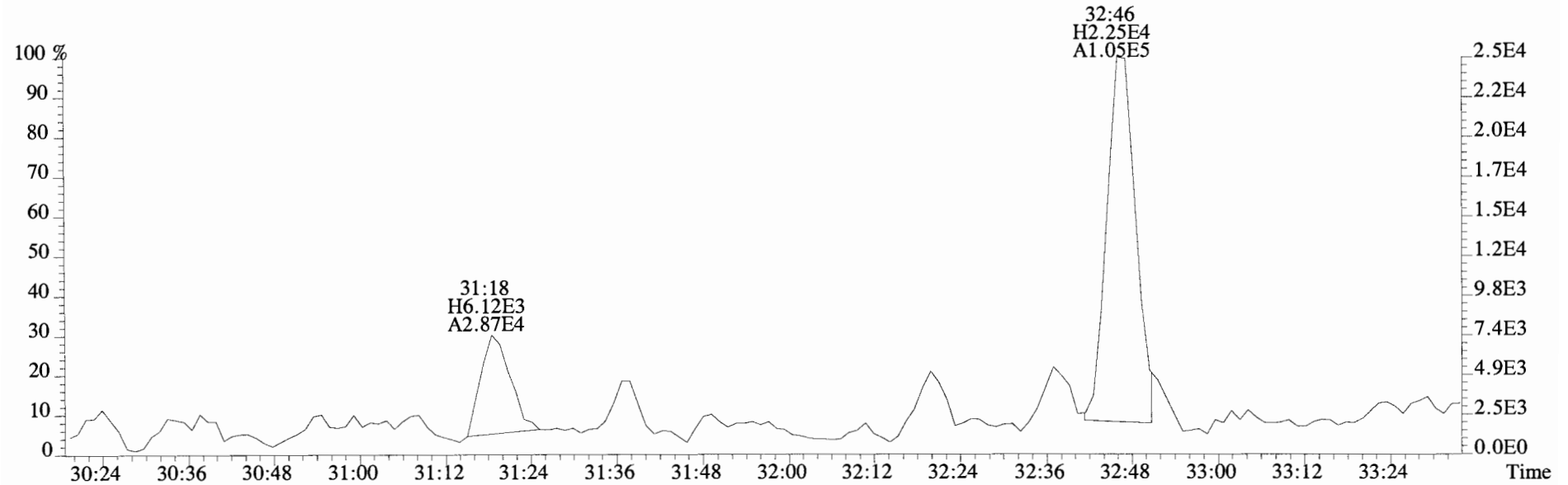
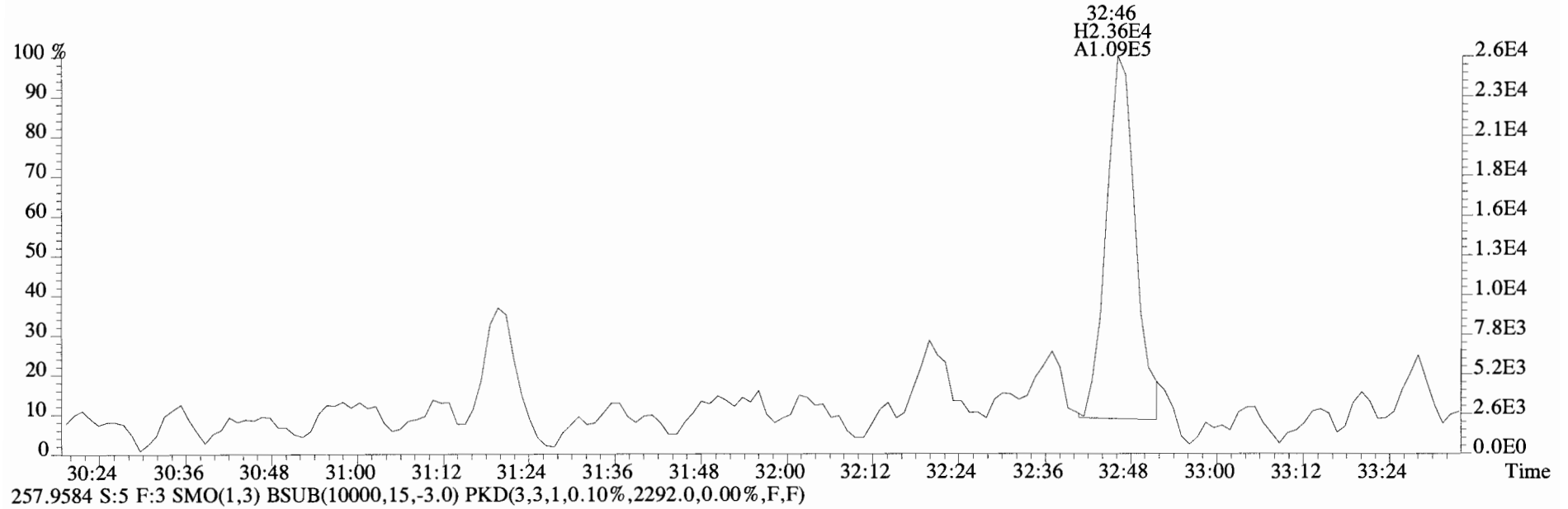
269.9986 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,52180.0,0.00%,F,F)



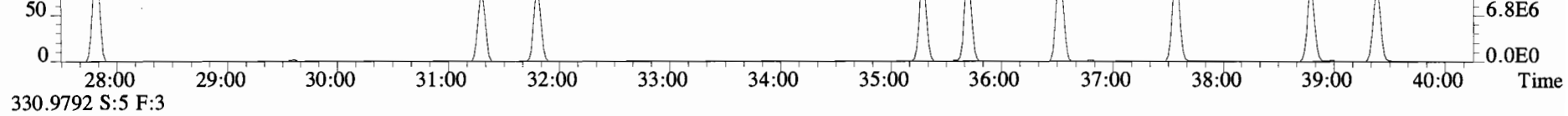
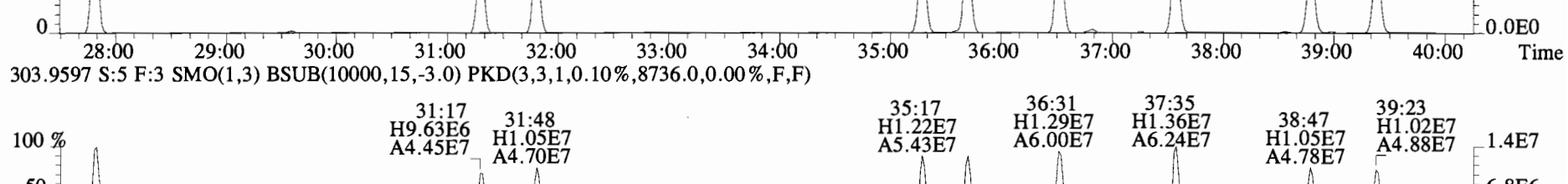
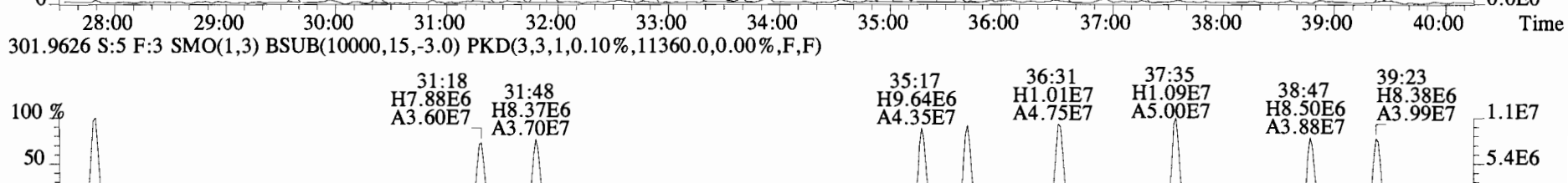
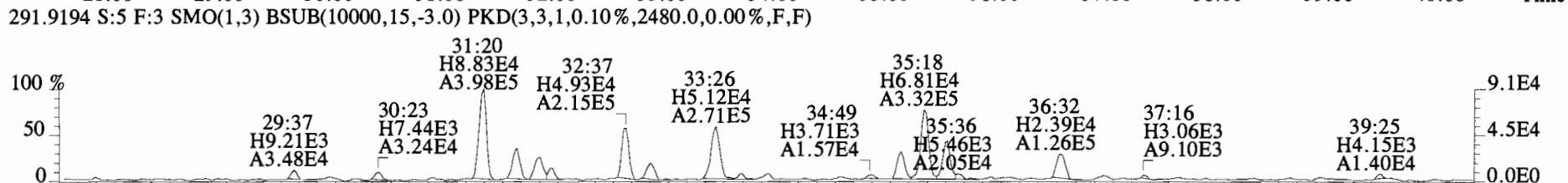
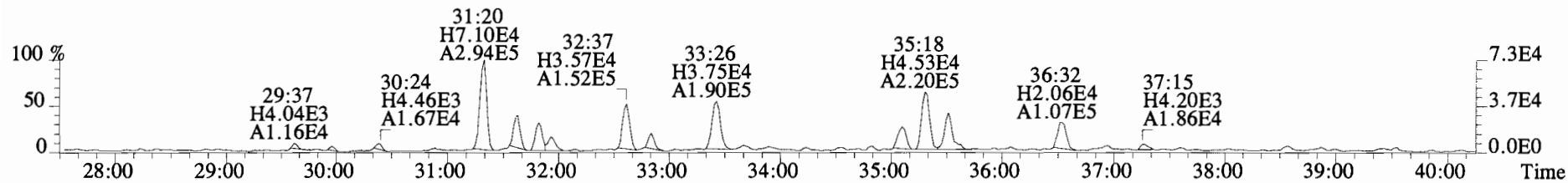
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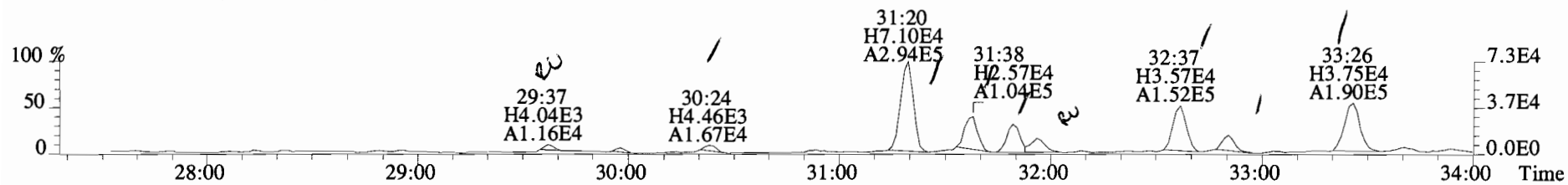
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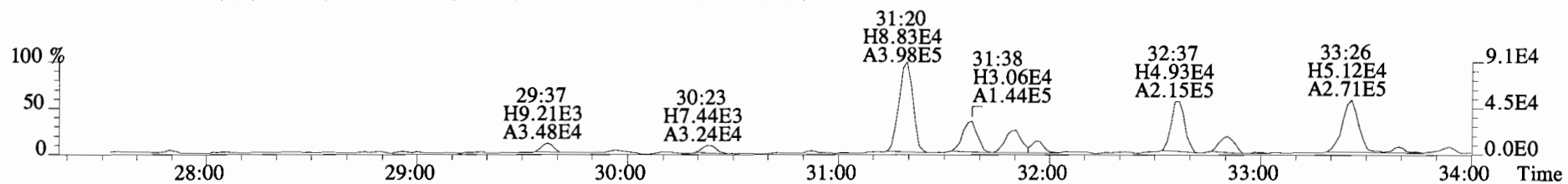
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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2344.0,0.00%,F,F)



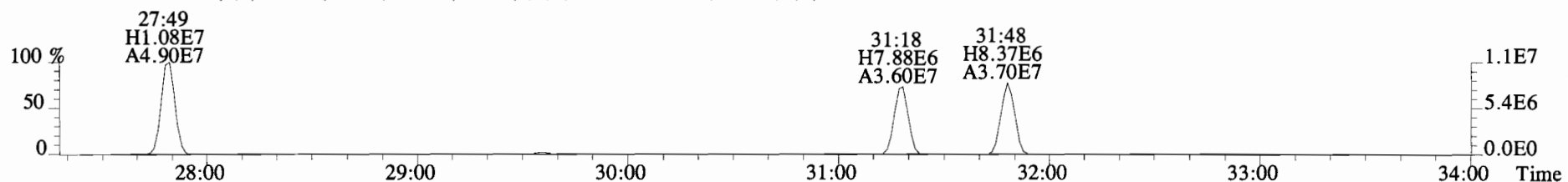
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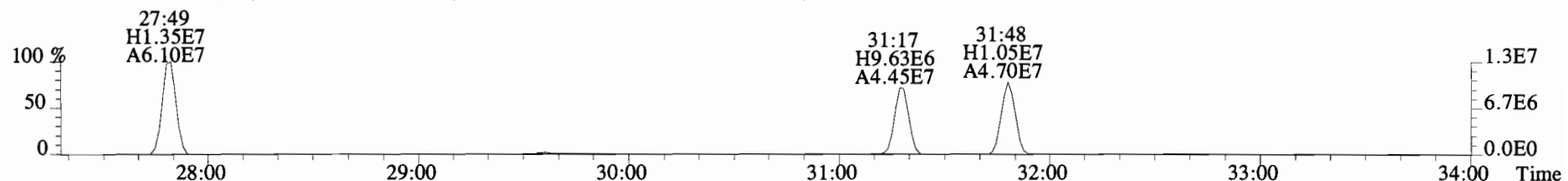
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)



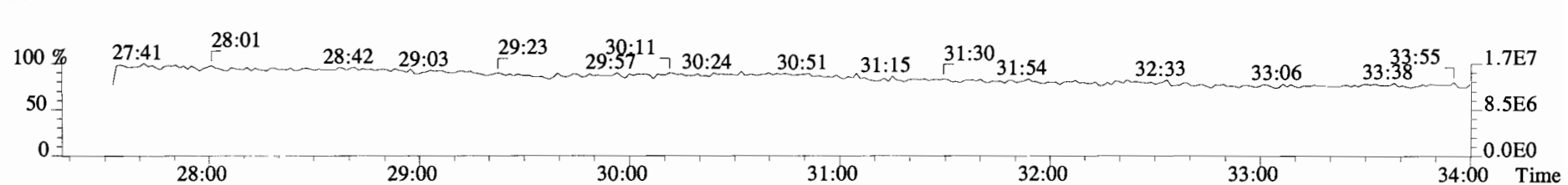
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11360.0,0.00%,F,F)



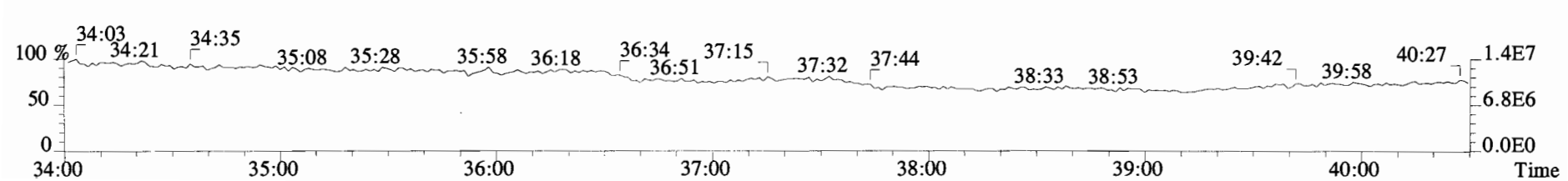
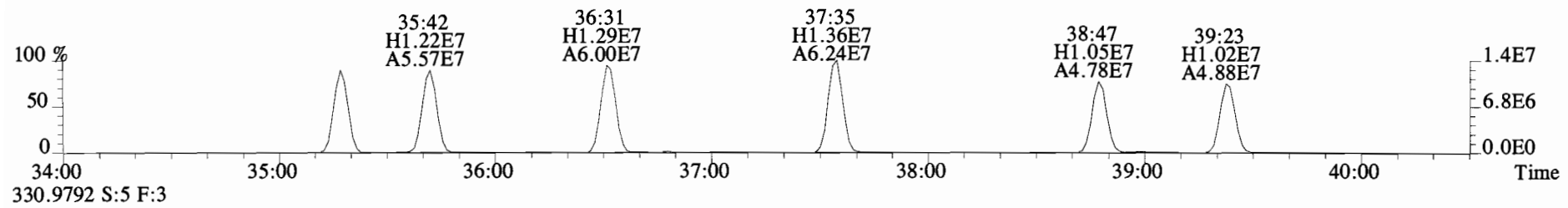
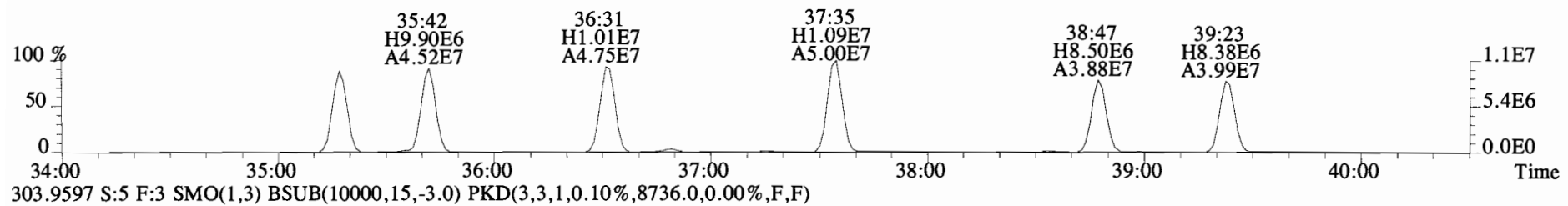
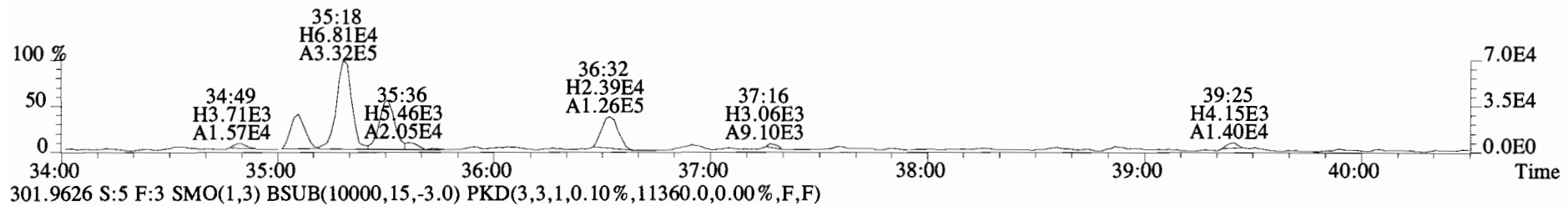
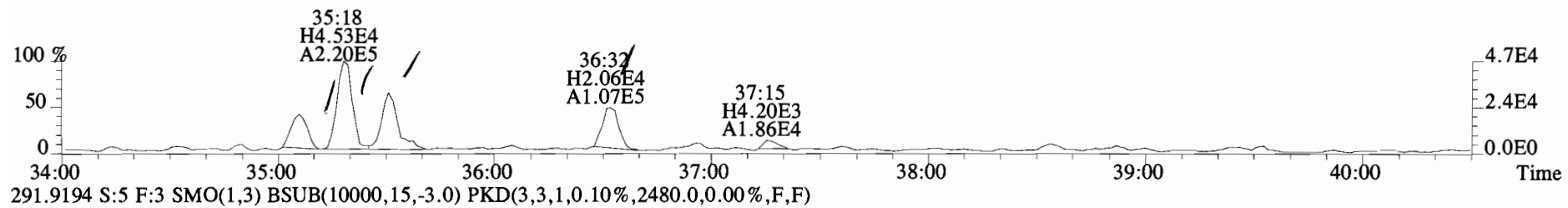
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8736.0,0.00%,F,F)



330.9792 S:5 F:3

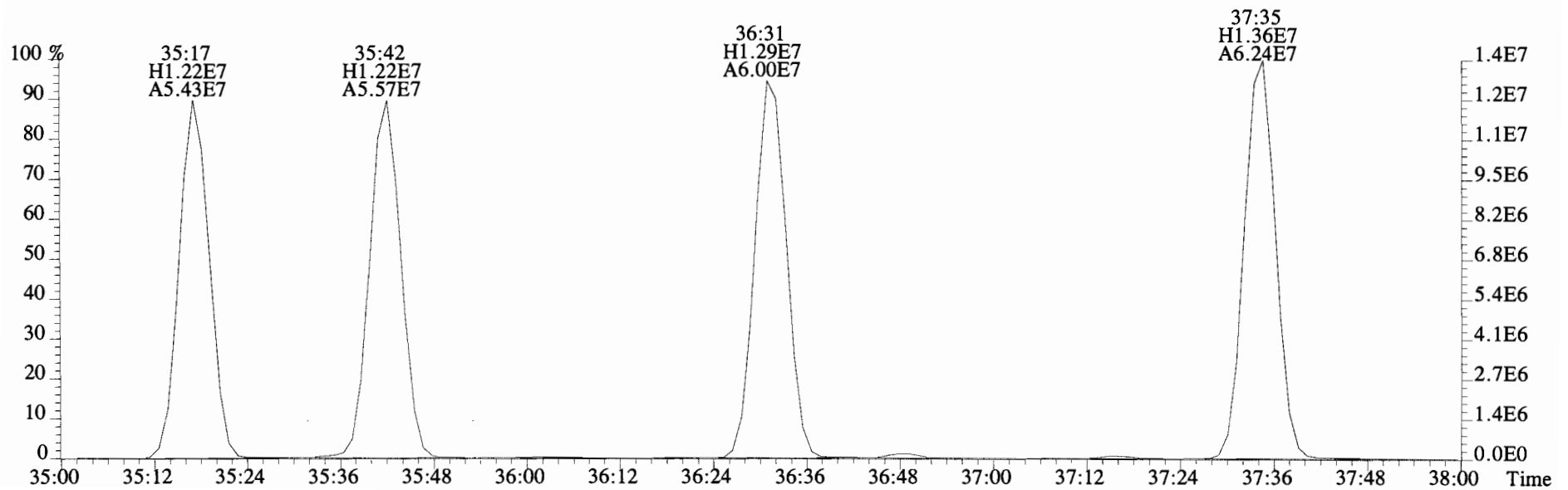
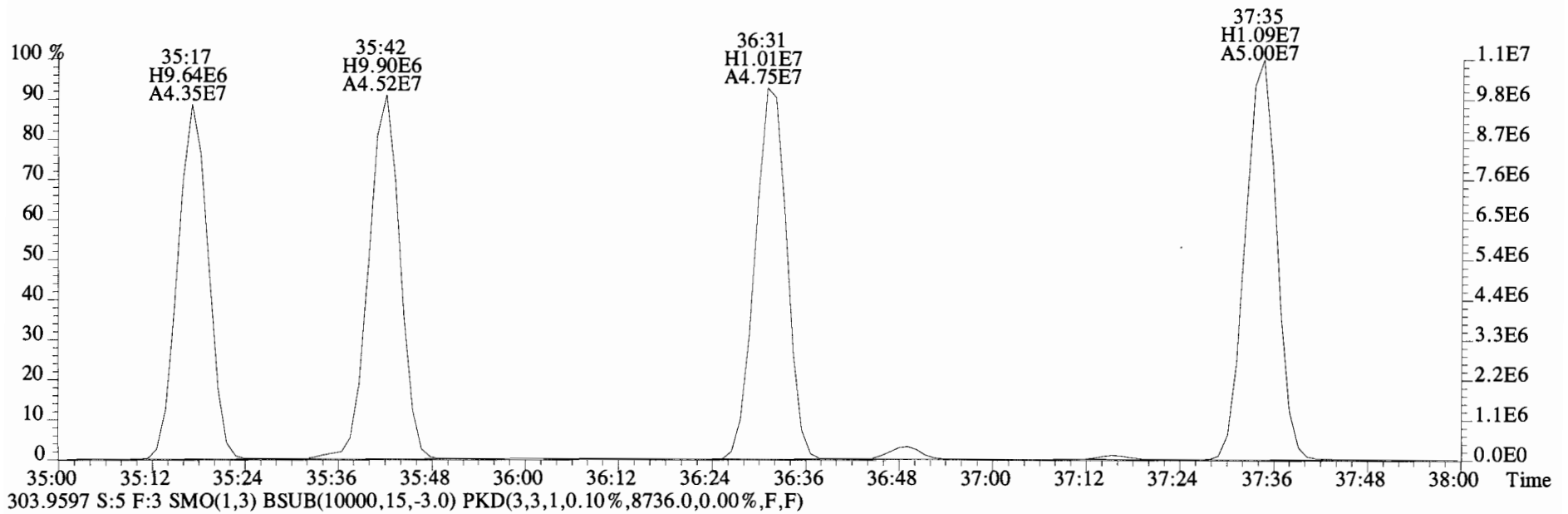


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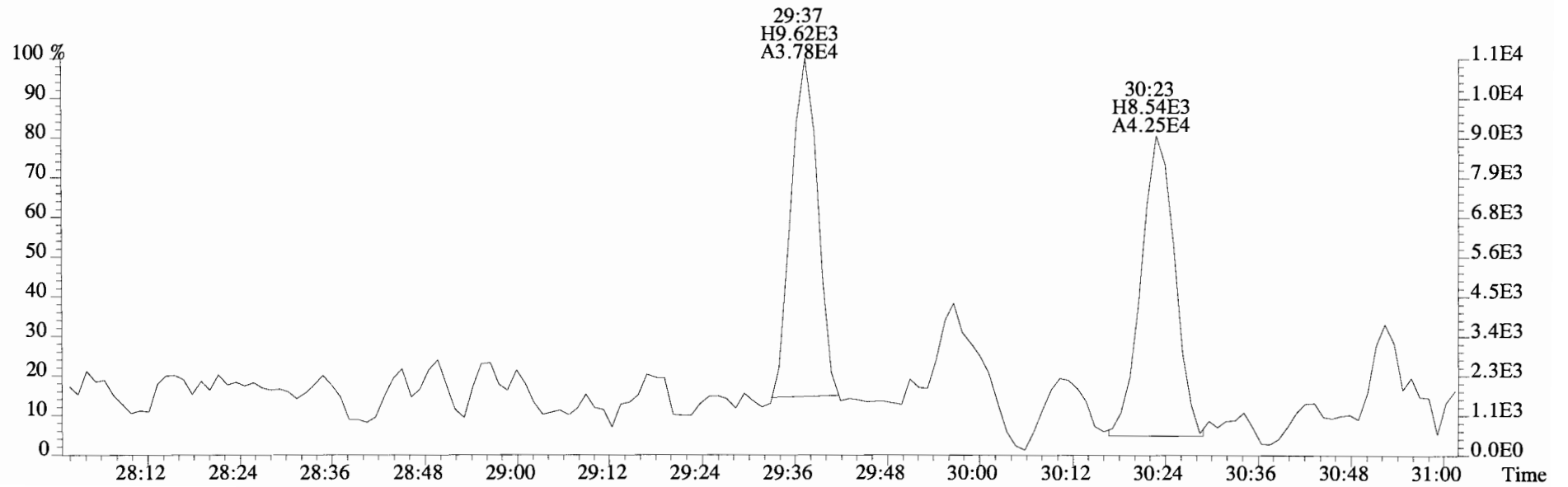
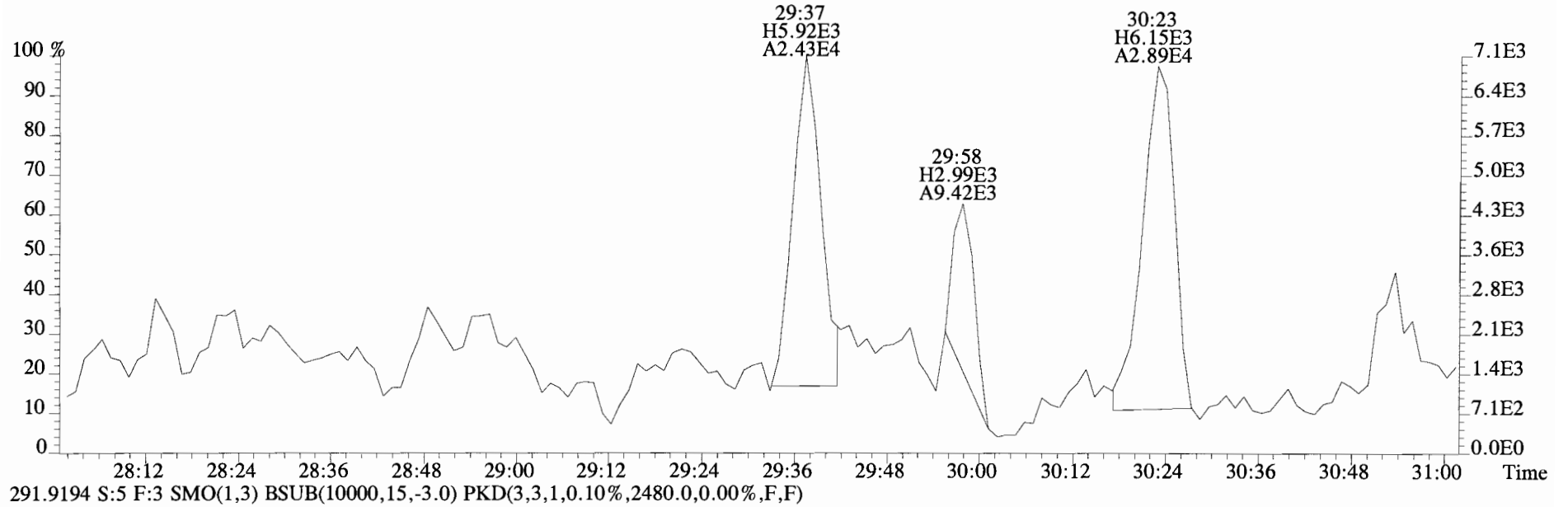




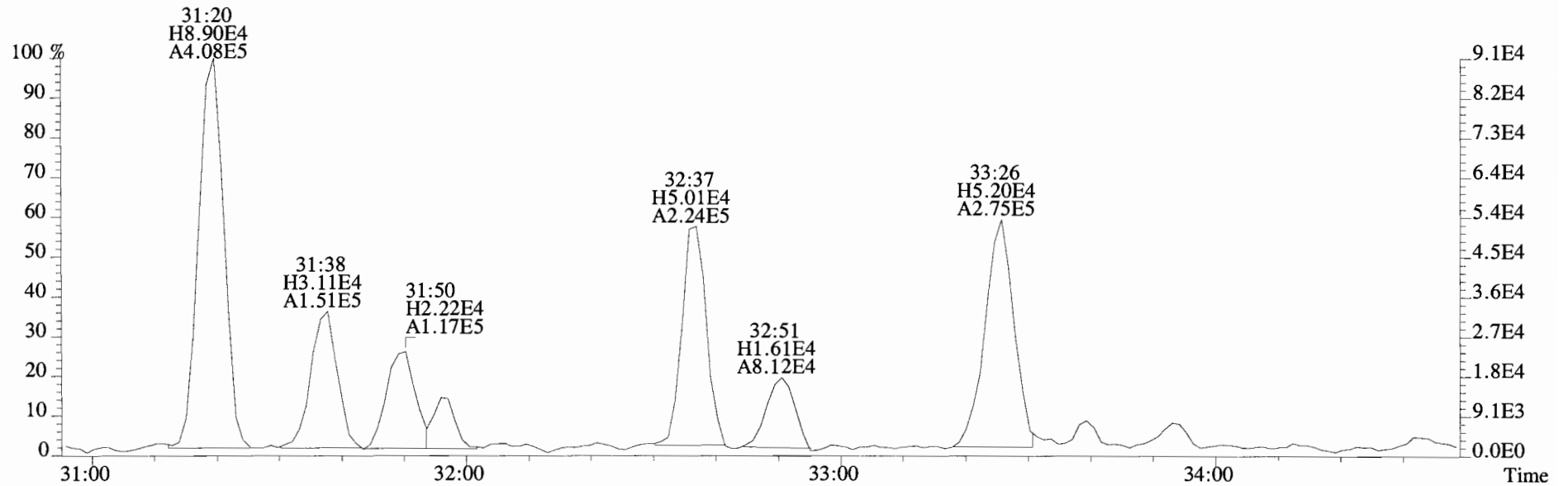
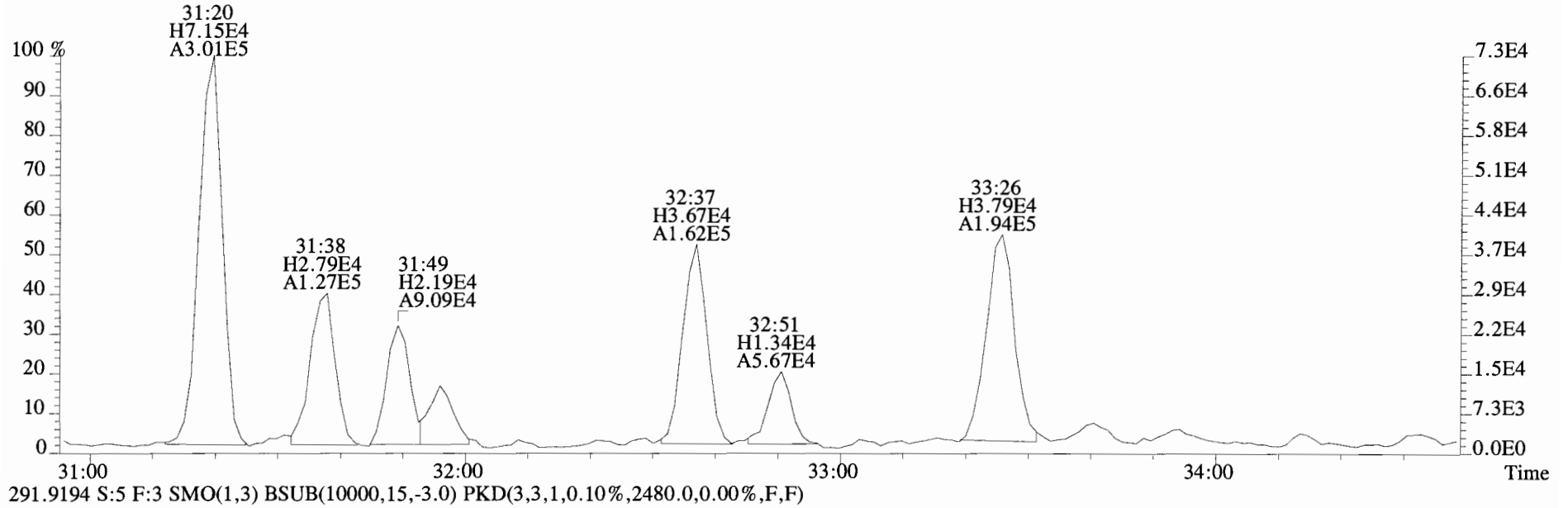
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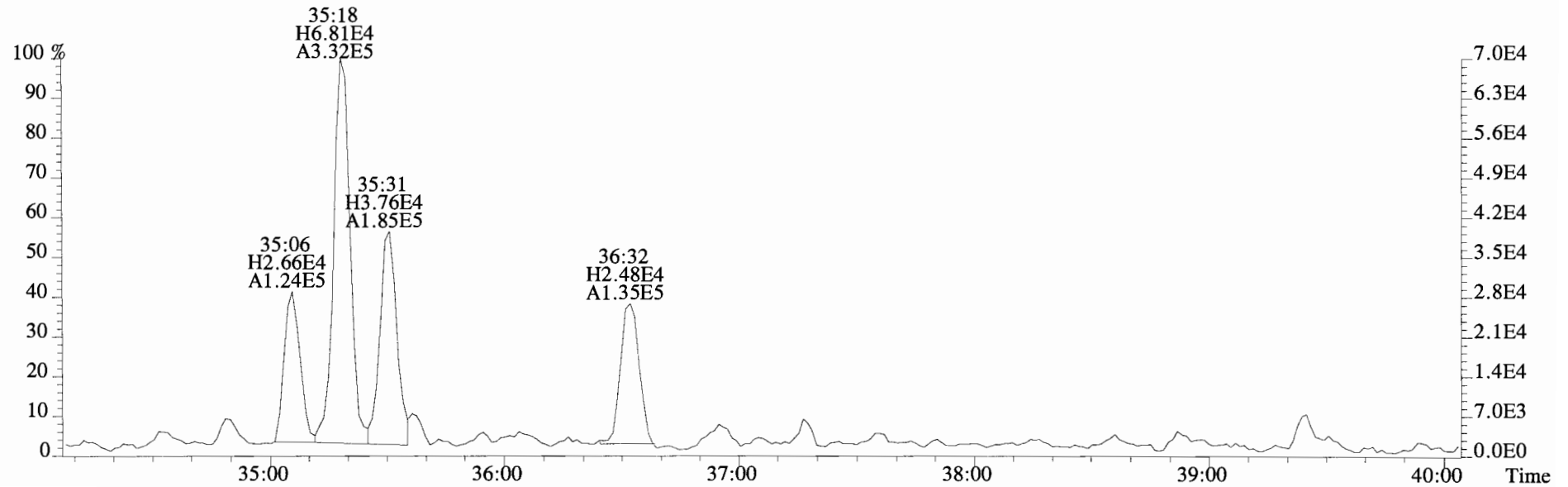
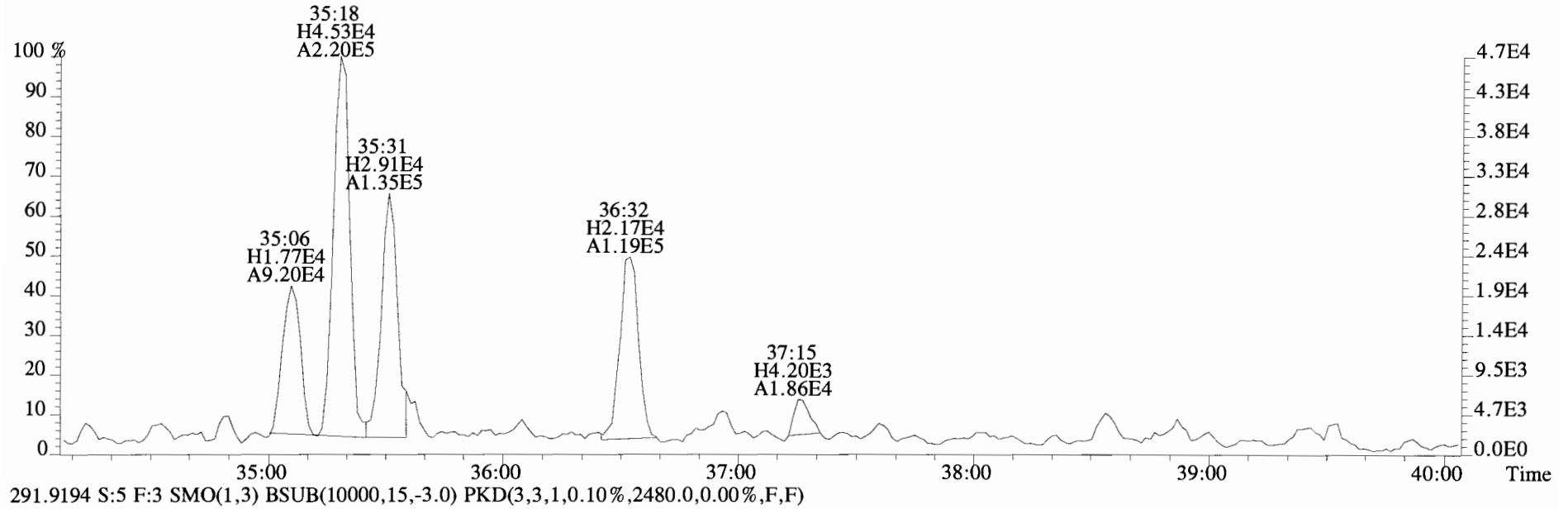
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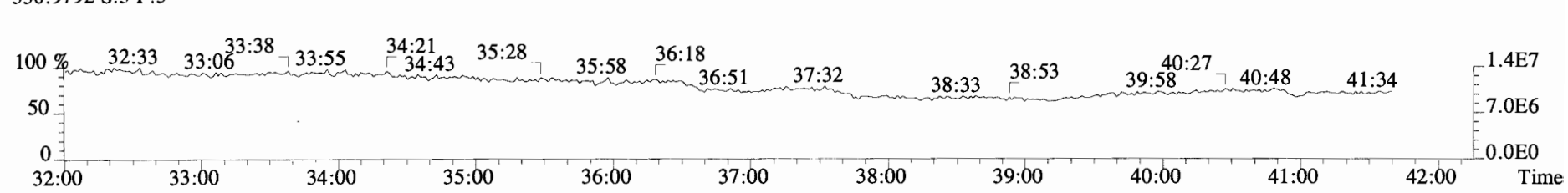
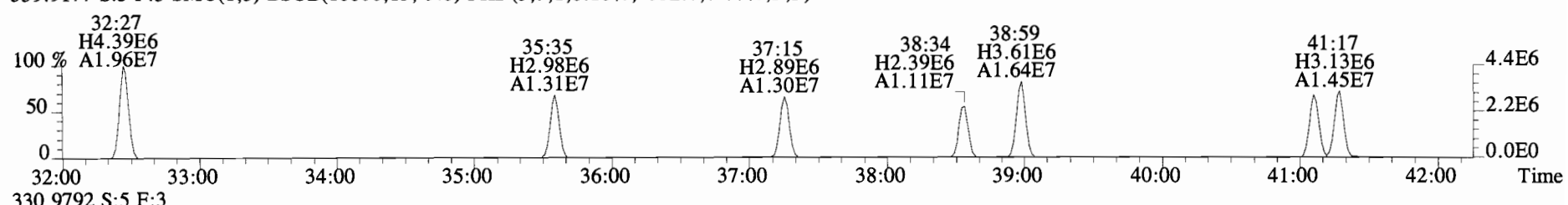
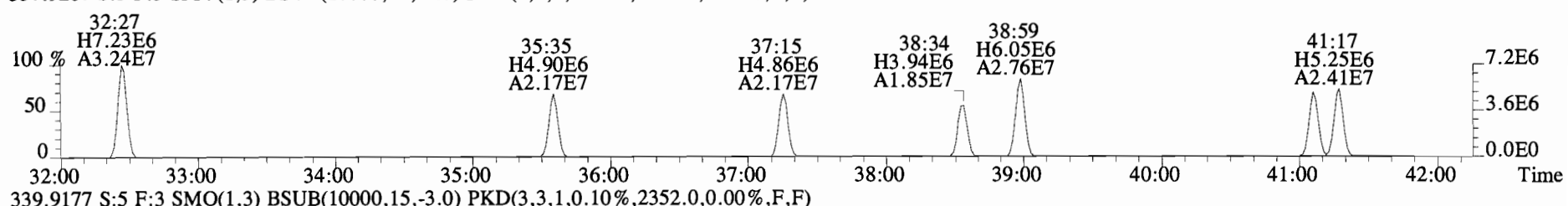
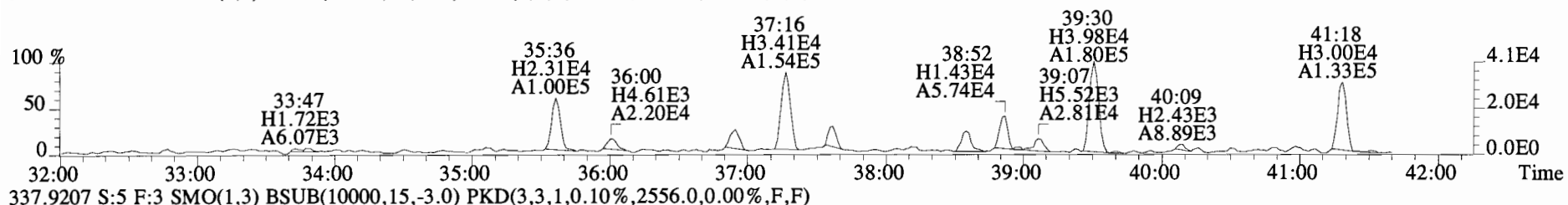
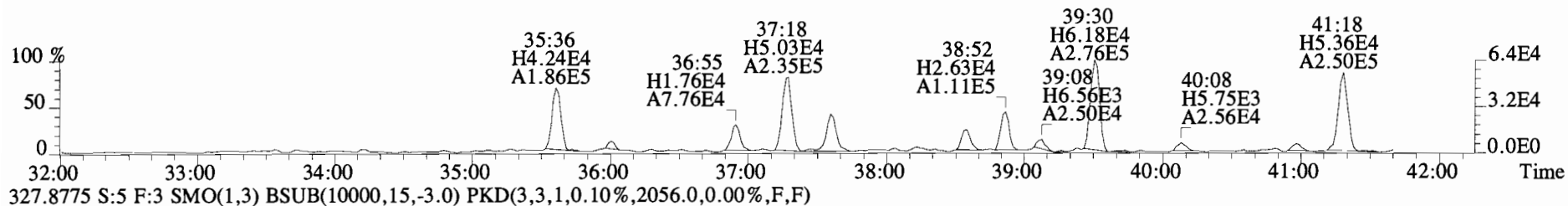
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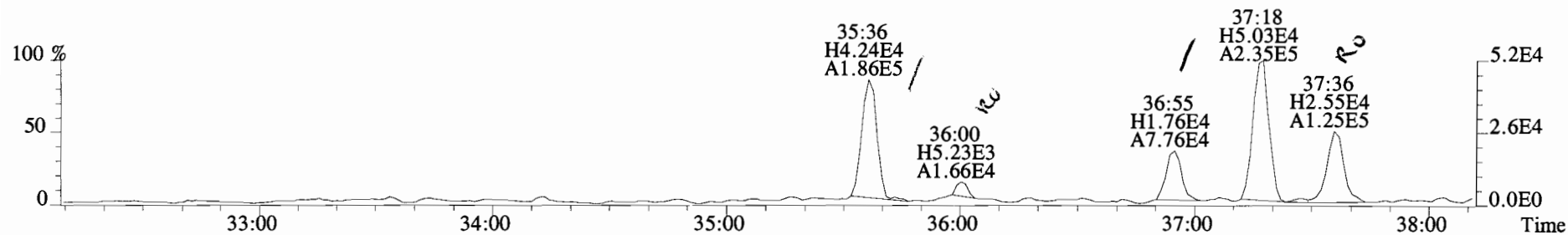
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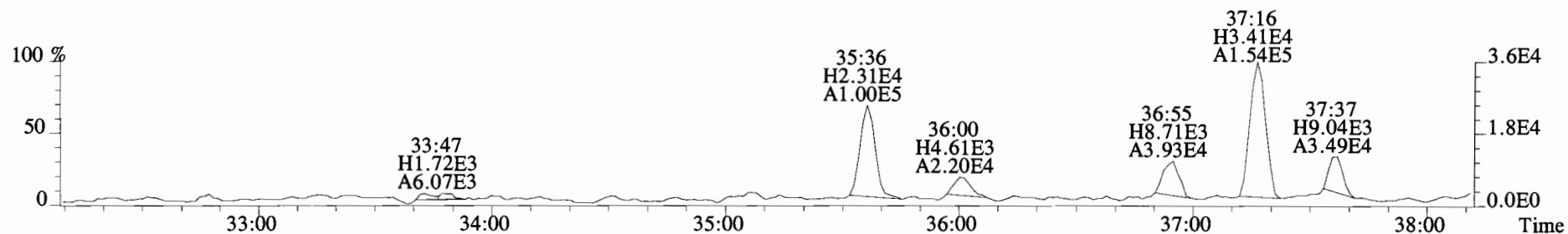
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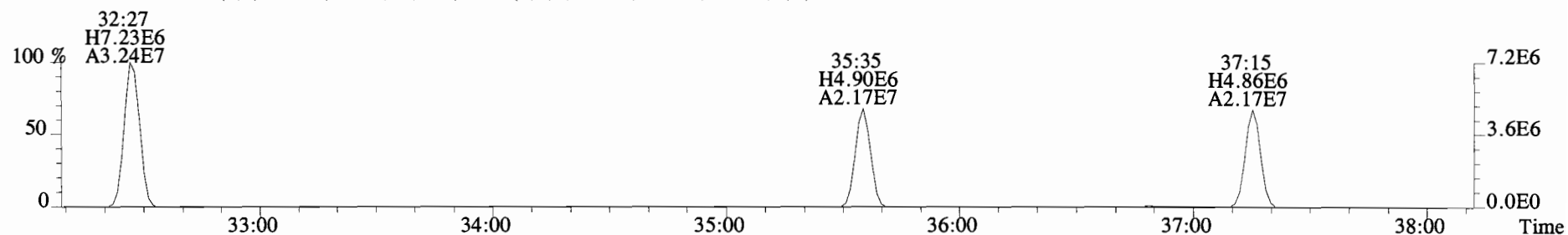
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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
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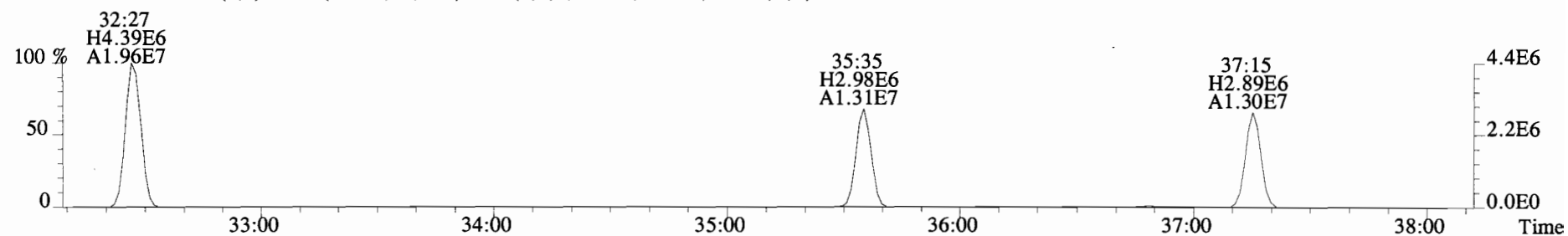
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



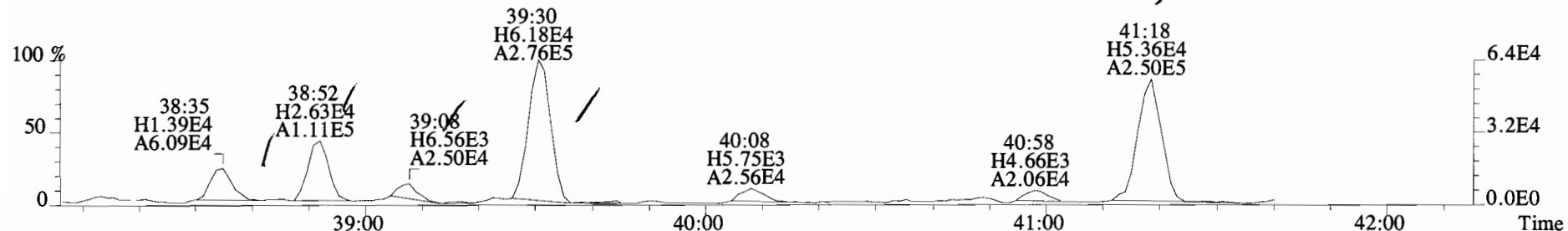
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2556.0,0.00%,F,F)



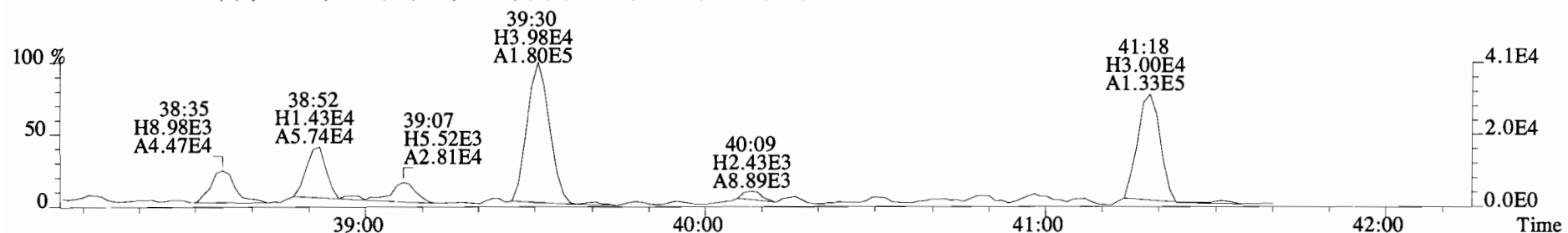
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2352.0,0.00%,F,F)



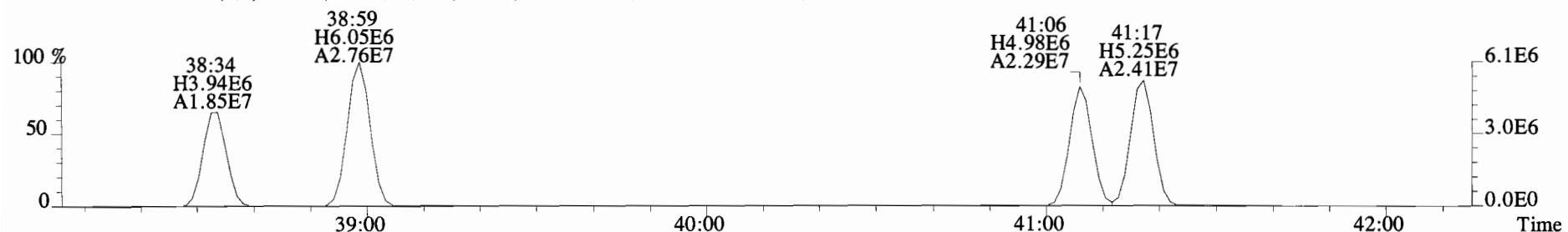
File:140910E2 #1-747 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



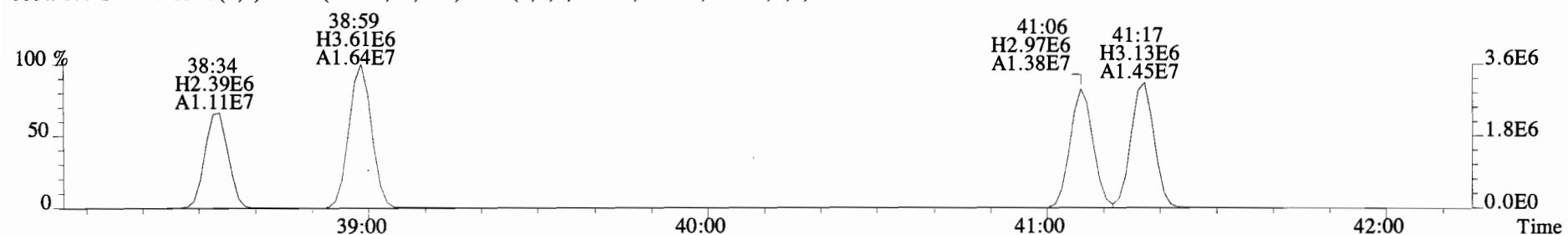
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



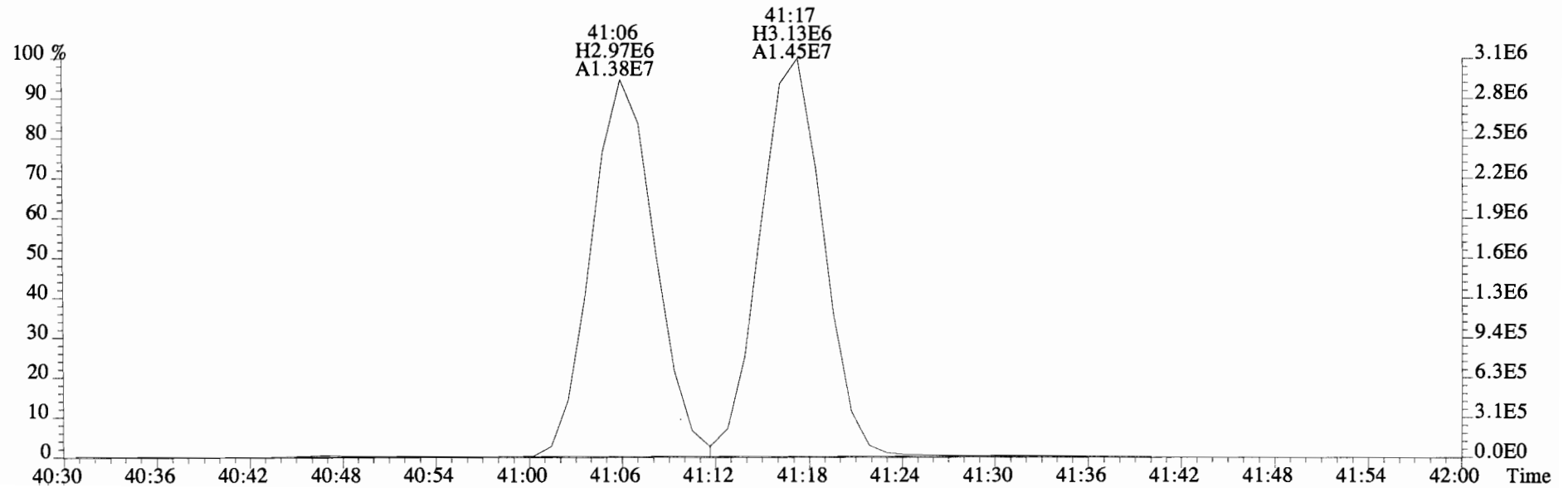
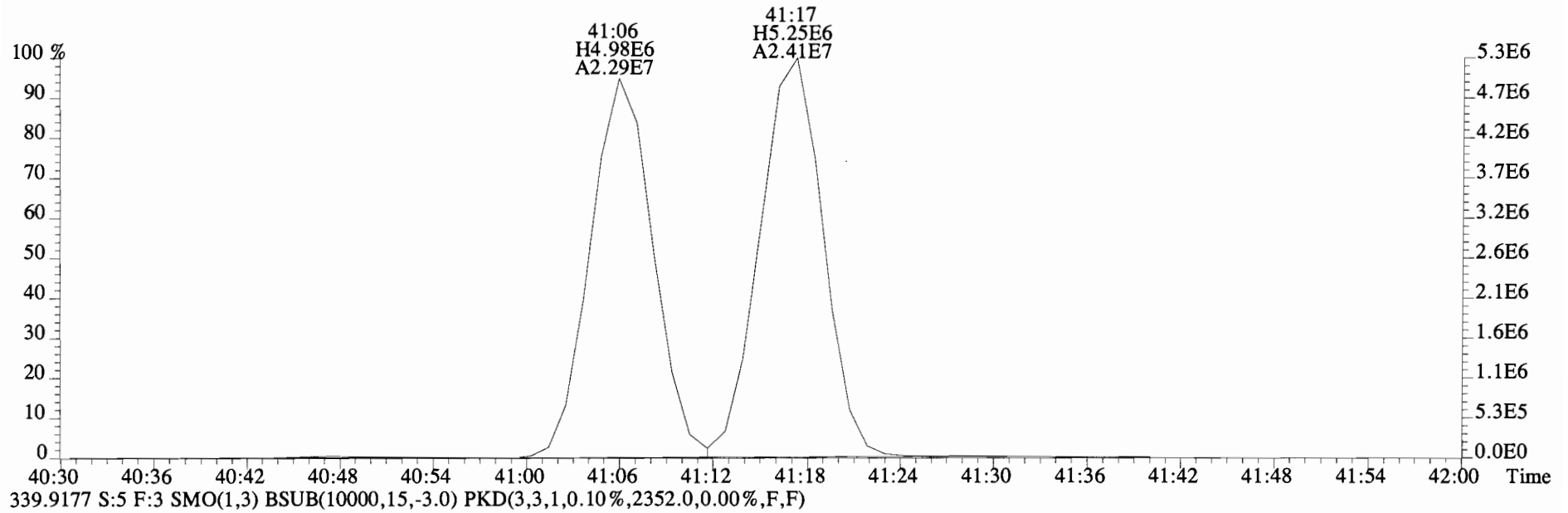
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2556.0,0.00%,F,F)



339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2352.0,0.00%,F,F)

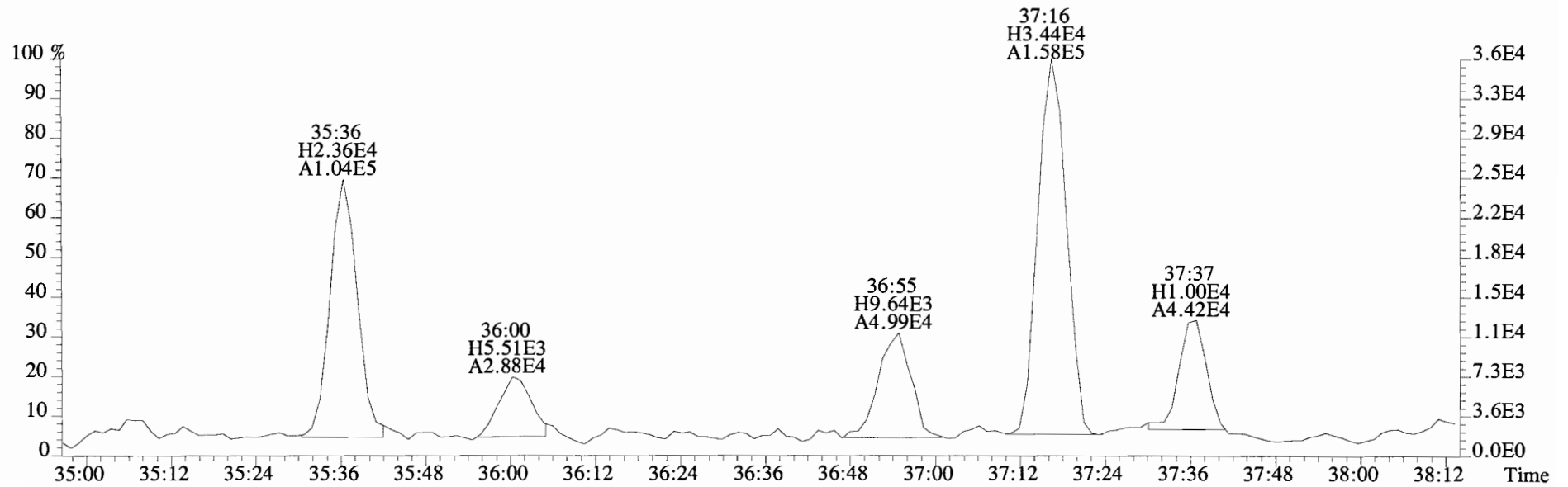
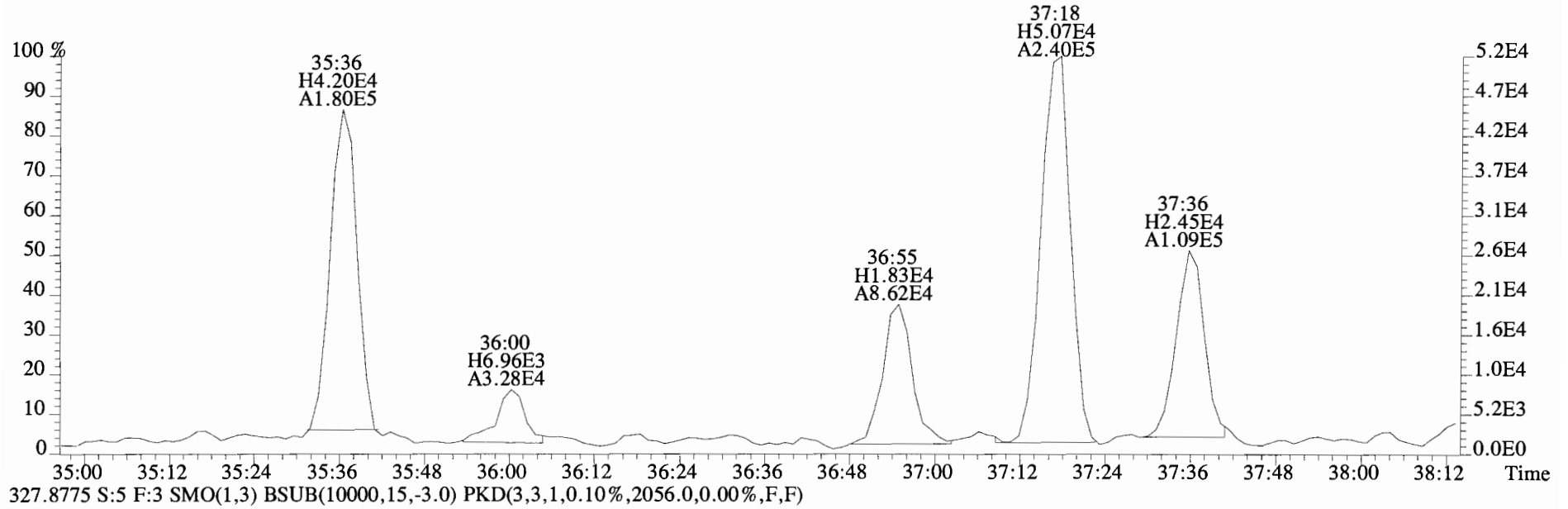


File:140910E2 #1-747 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2556.0,0.00%,F,F)

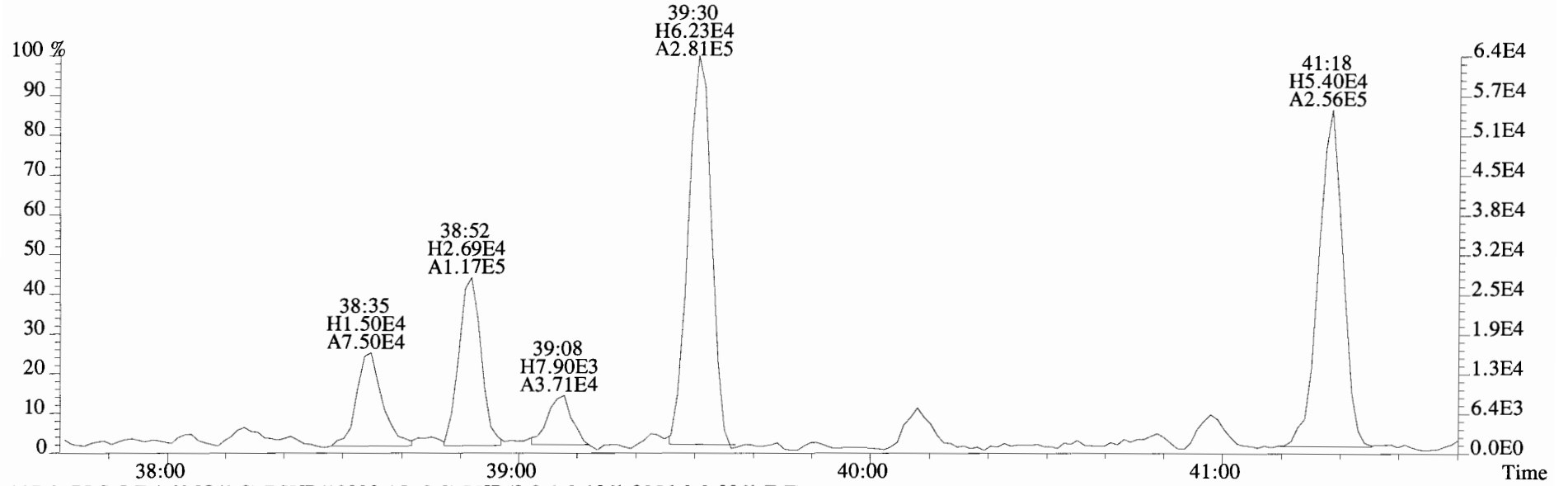




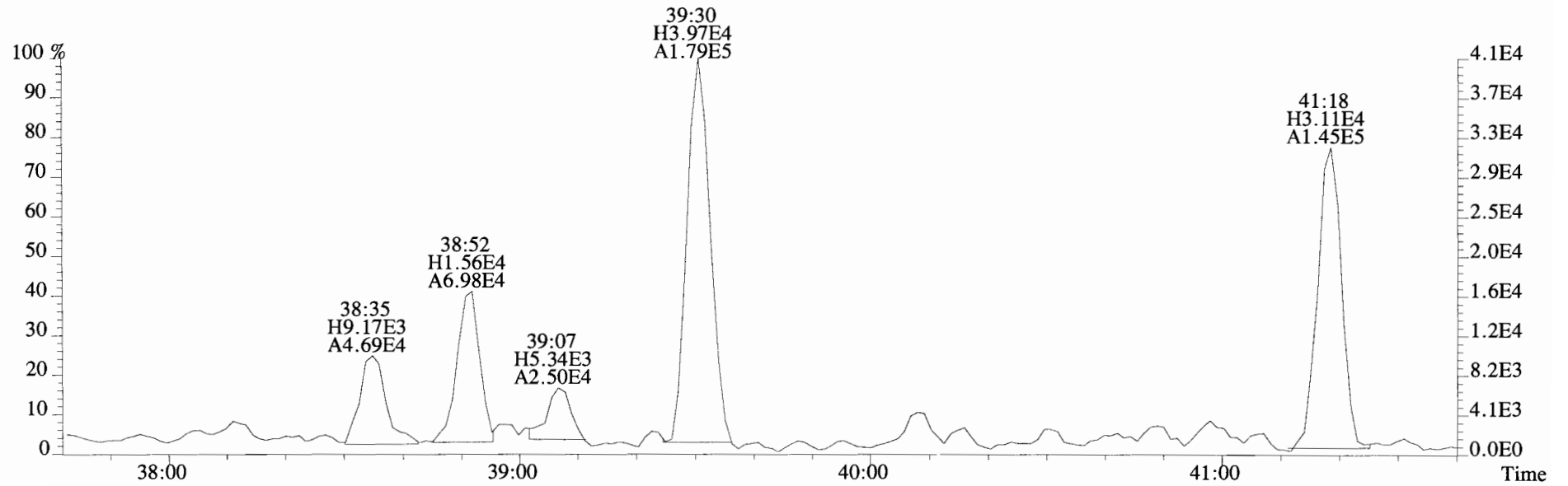
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



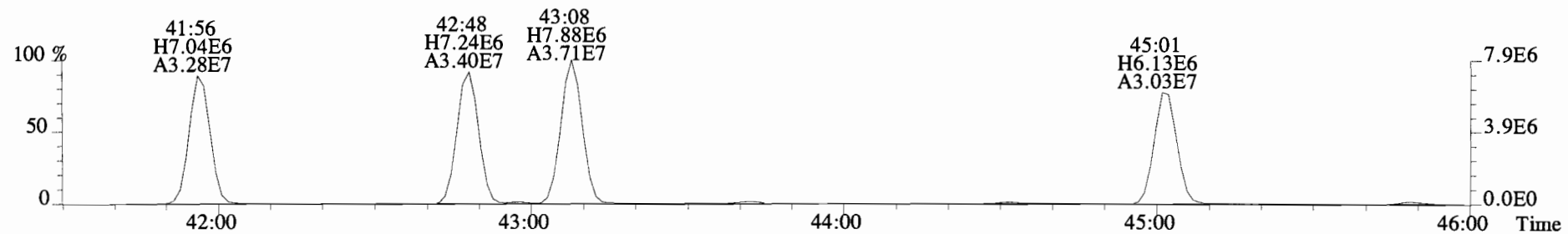
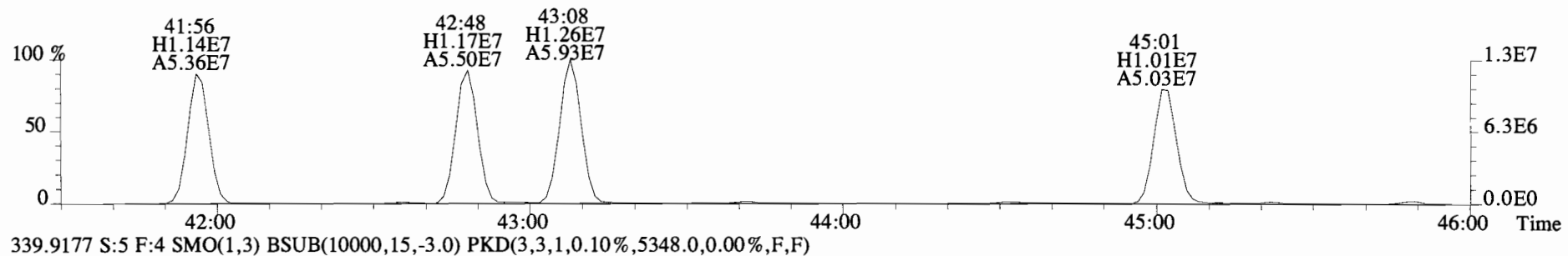
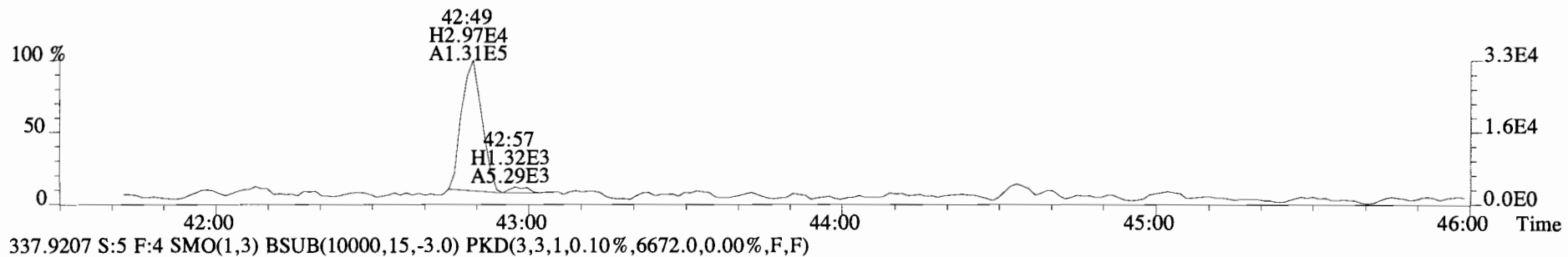
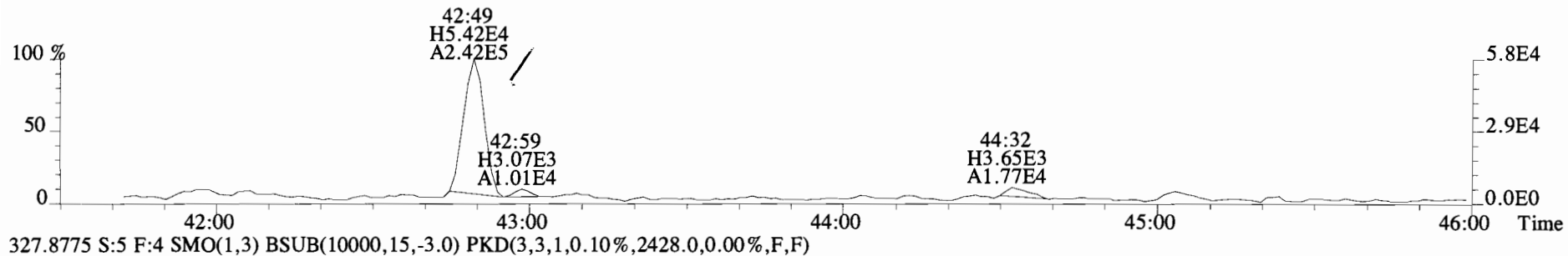
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



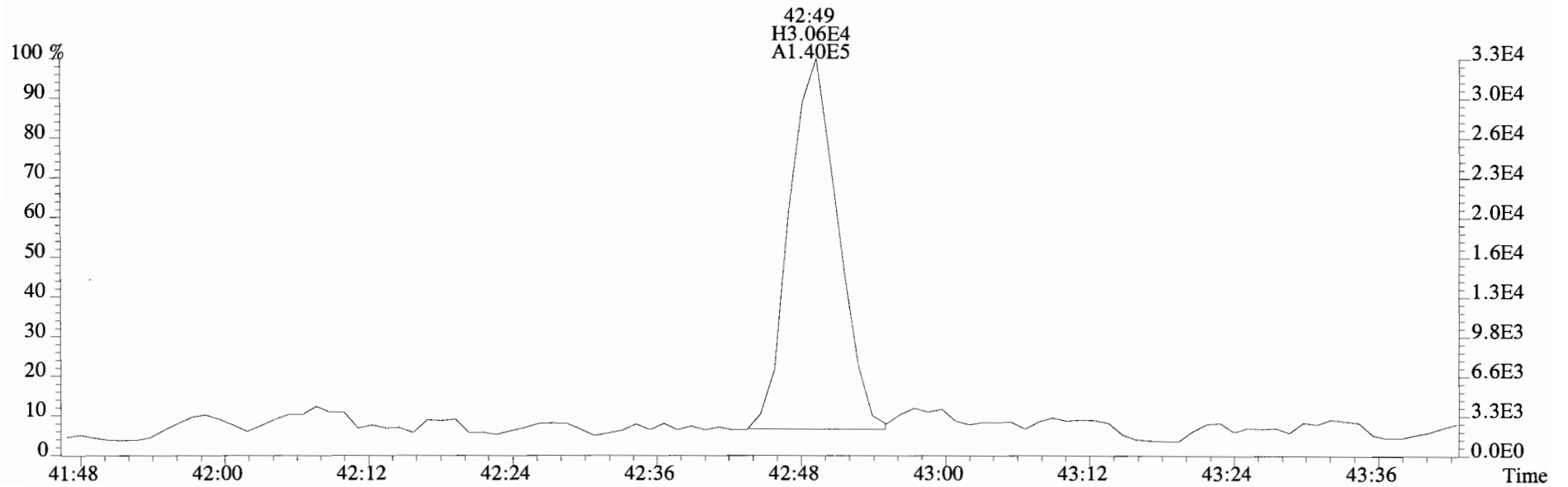
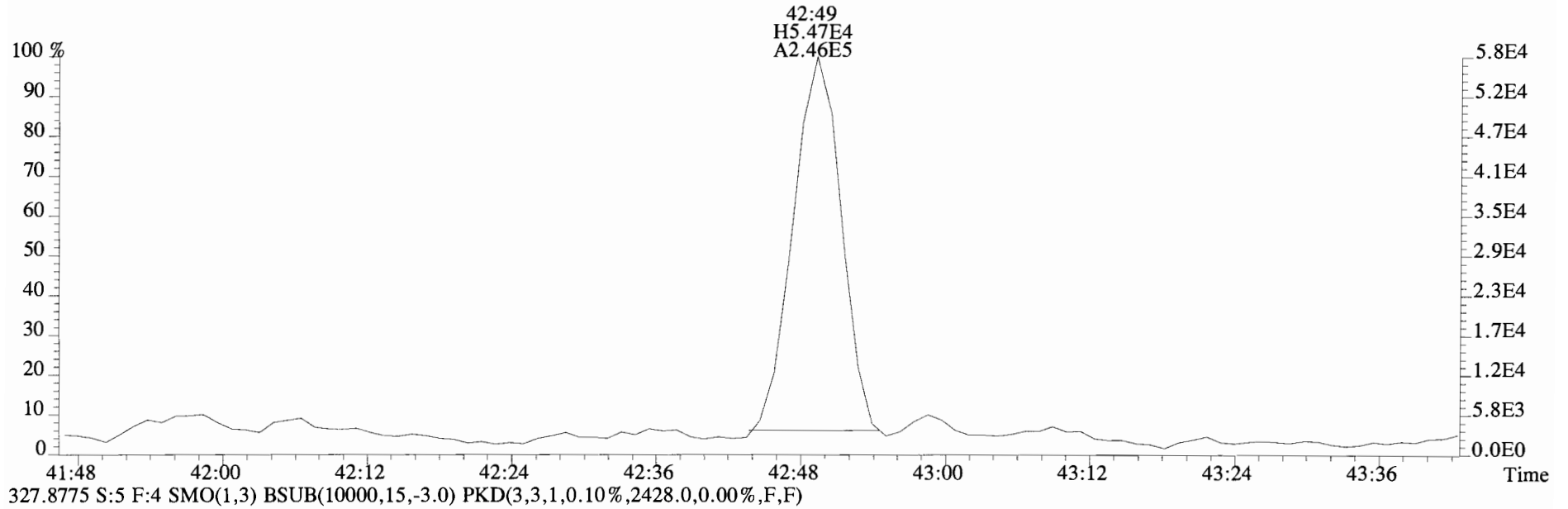
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



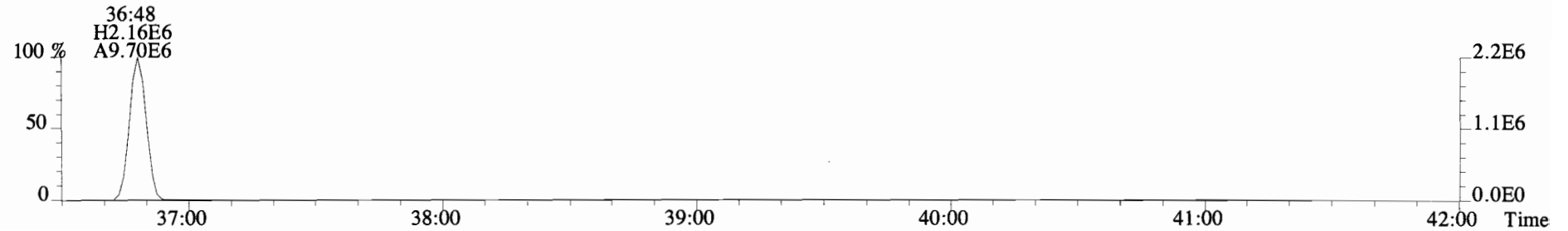
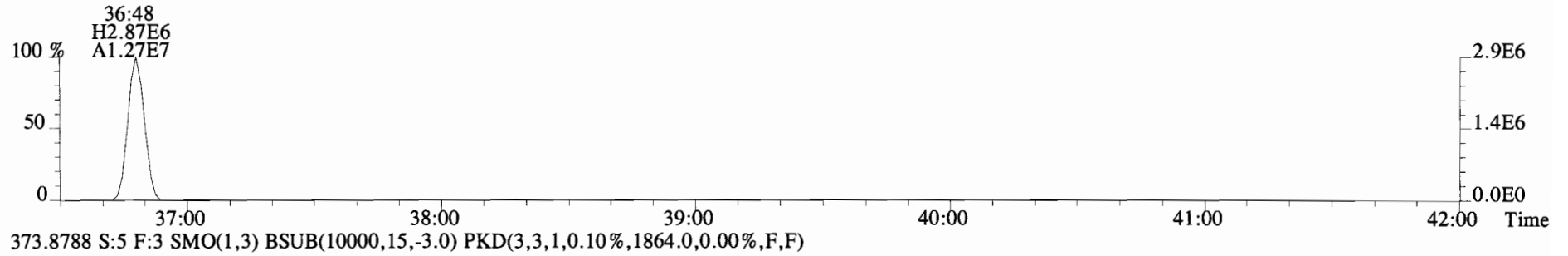
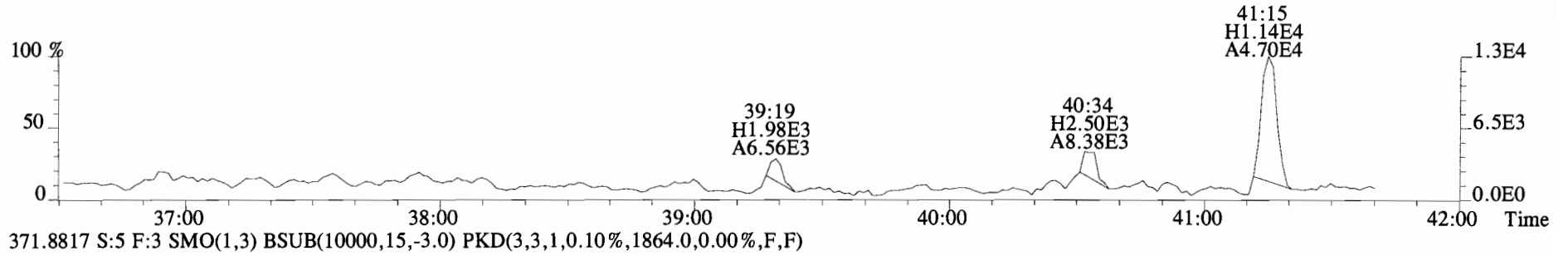
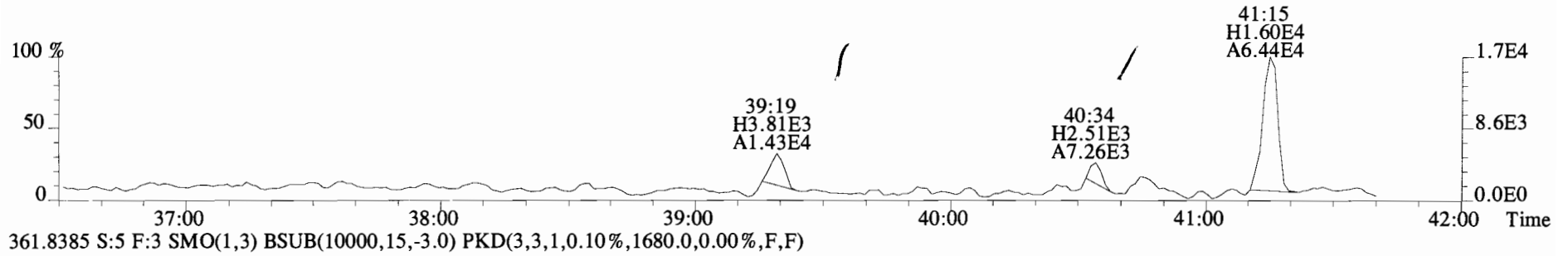
File:140910E2 #1-557 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



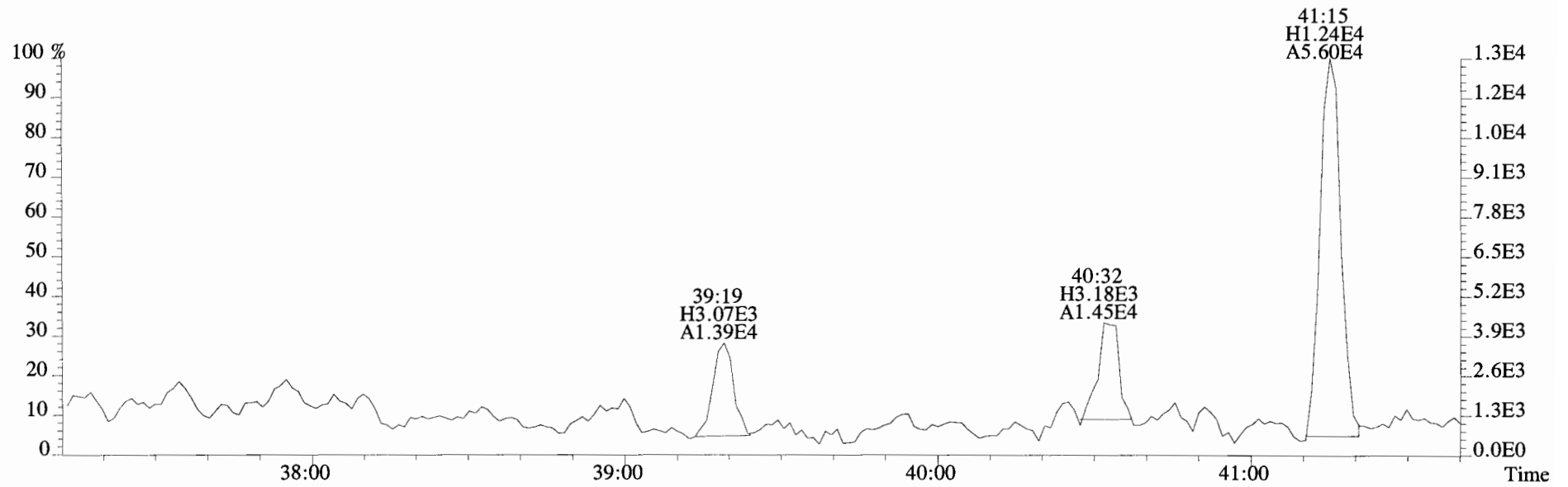
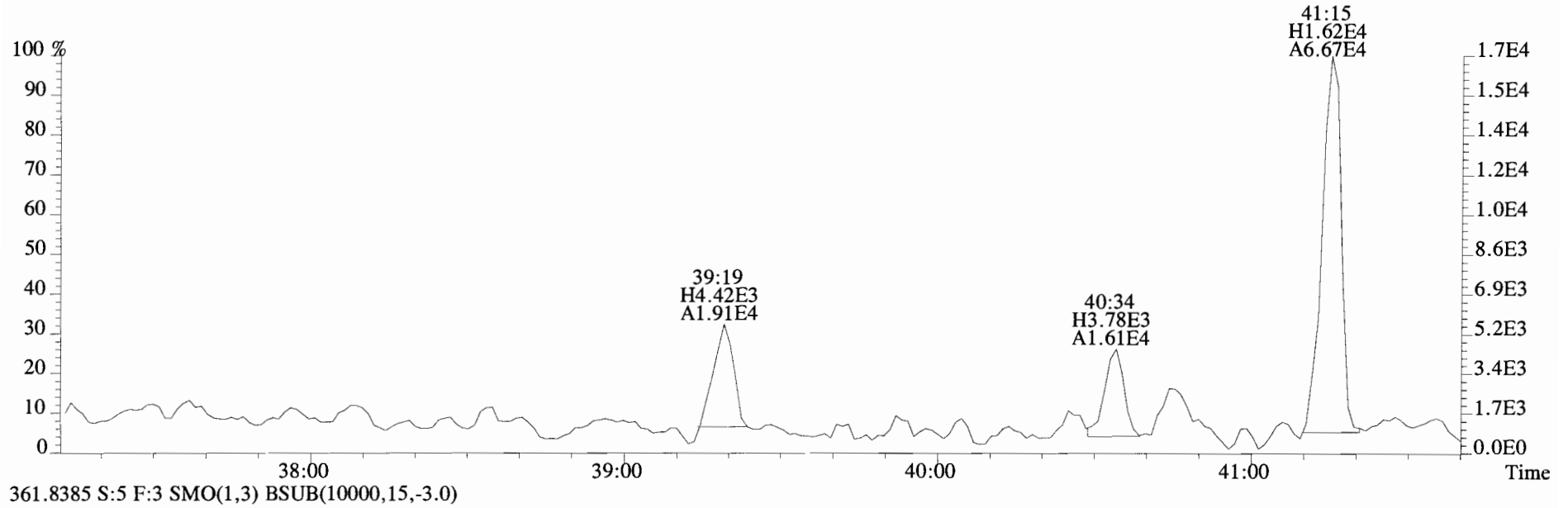
File:140910E2 #1-557 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



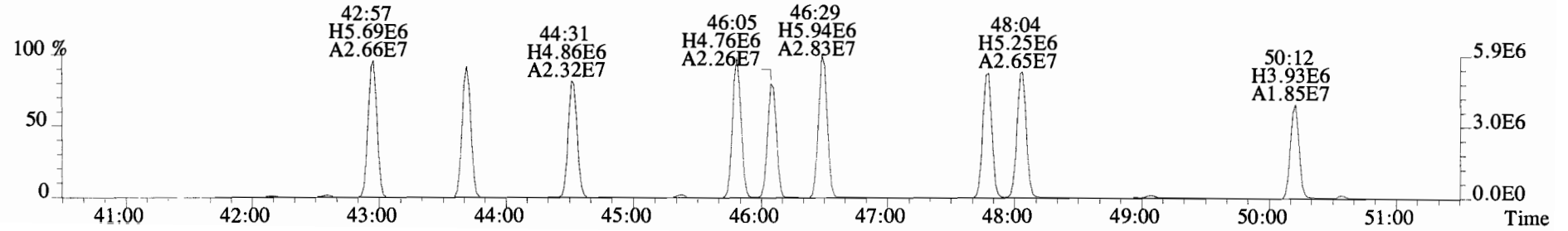
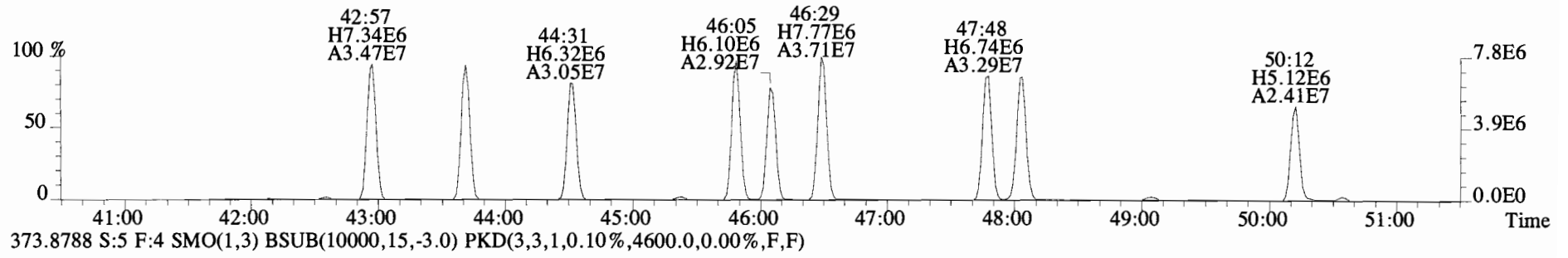
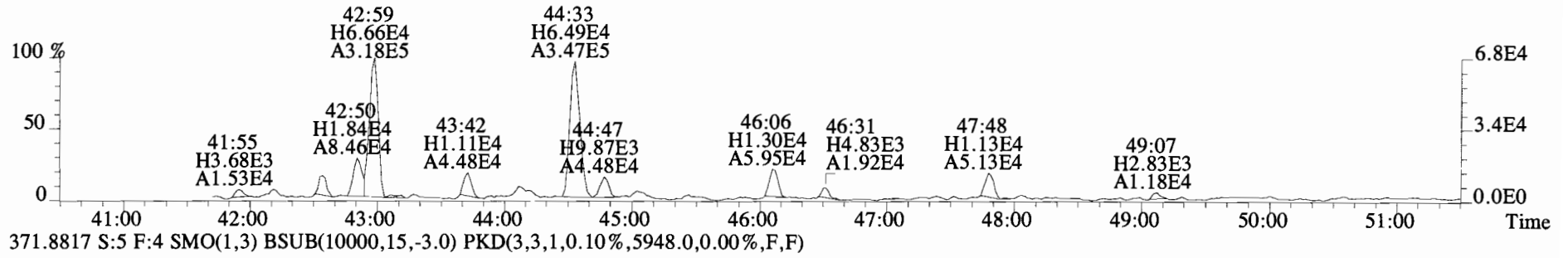
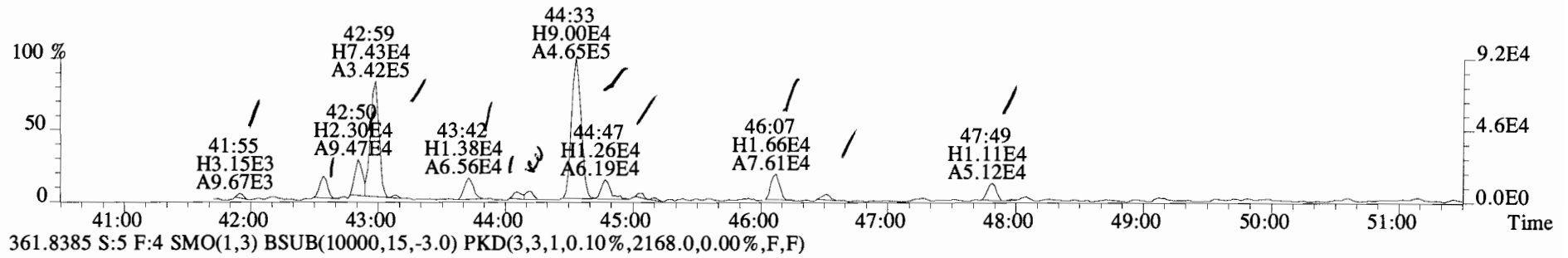
File:140910E2 #1-747 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1756.0,0.00%,F,F)



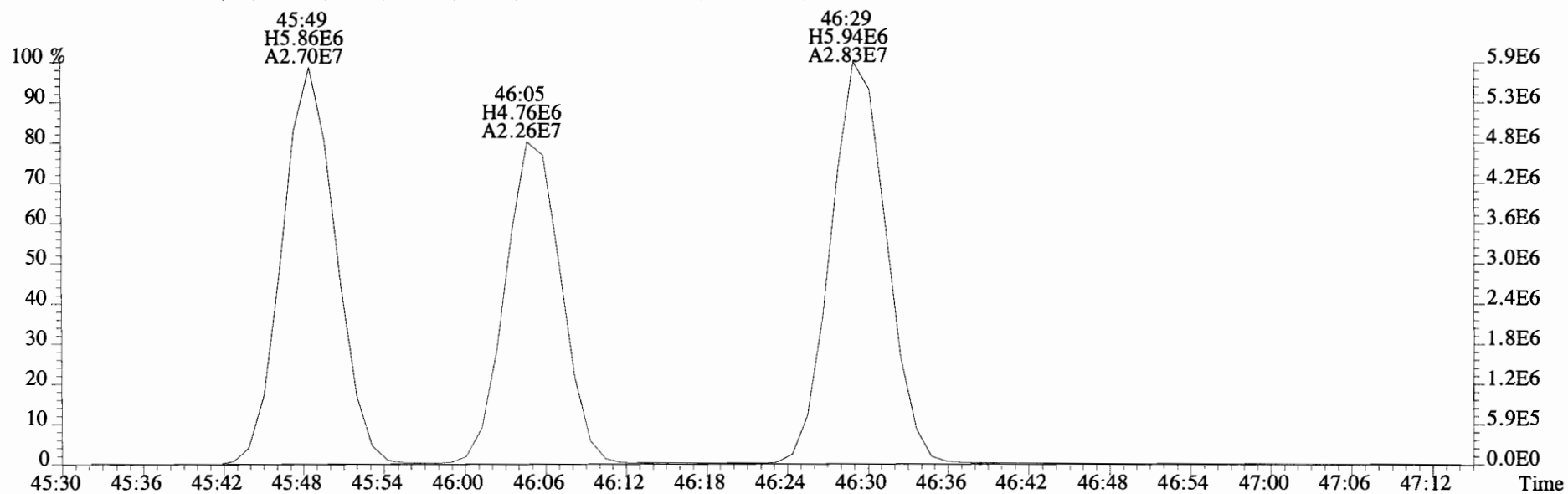
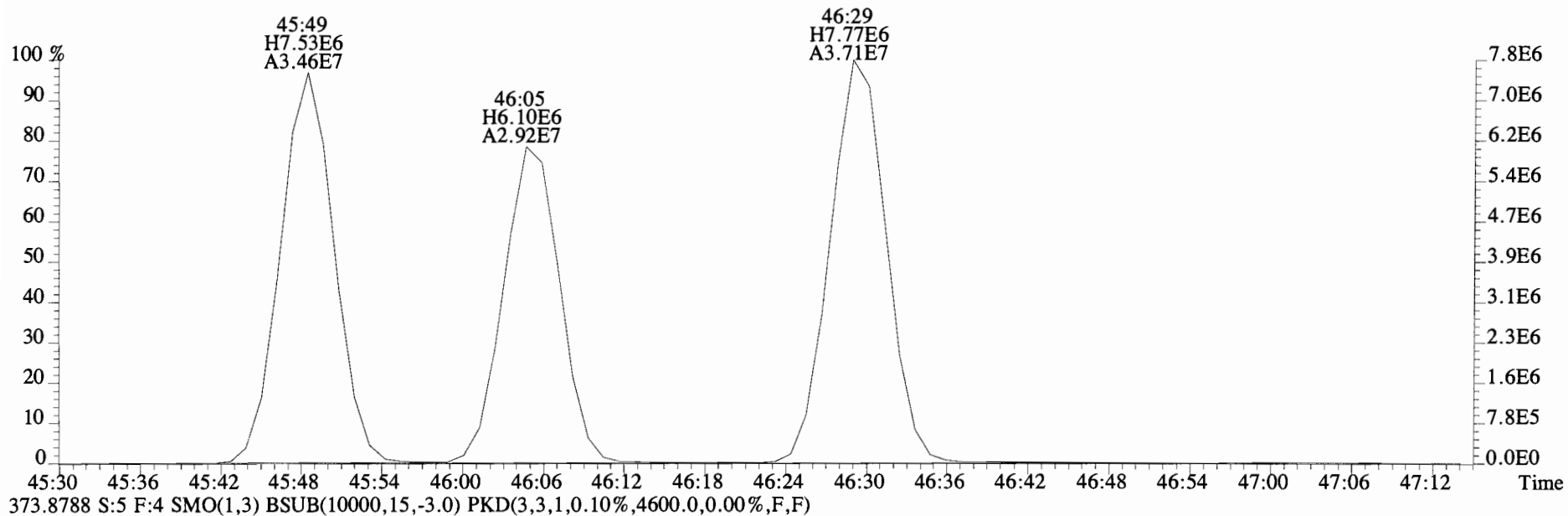
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:140910E2 #1-557 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2064.0,0.00%,F,F)

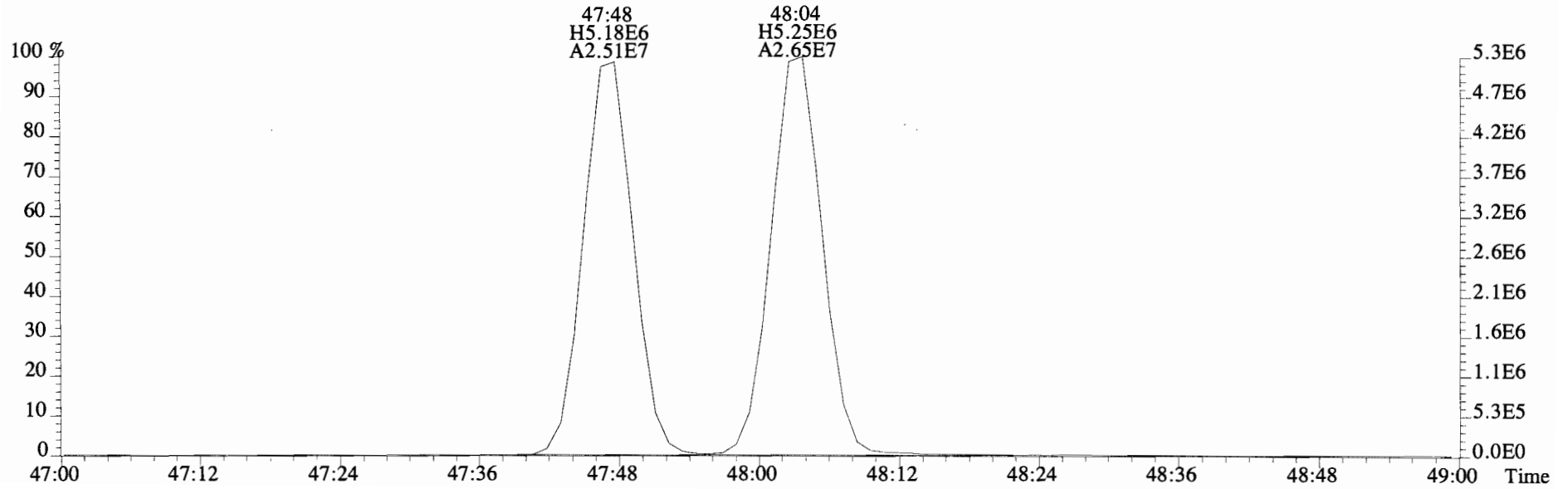
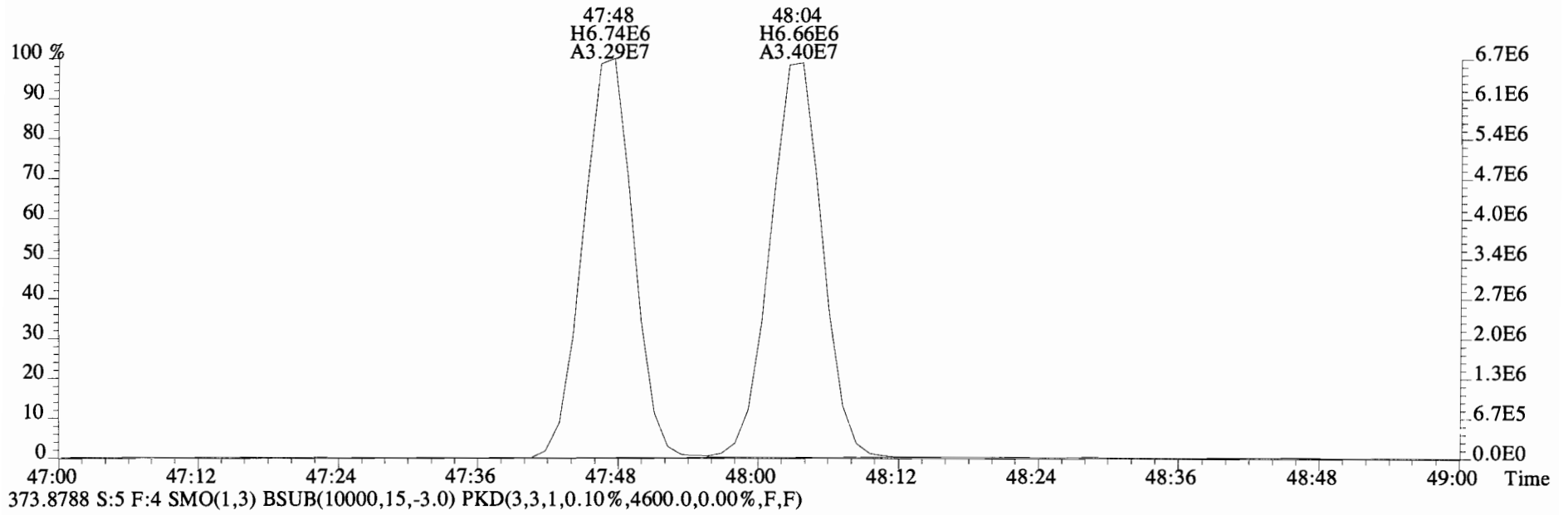


File:140910E2 #1-557 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5948.0,0.00%,F,F)

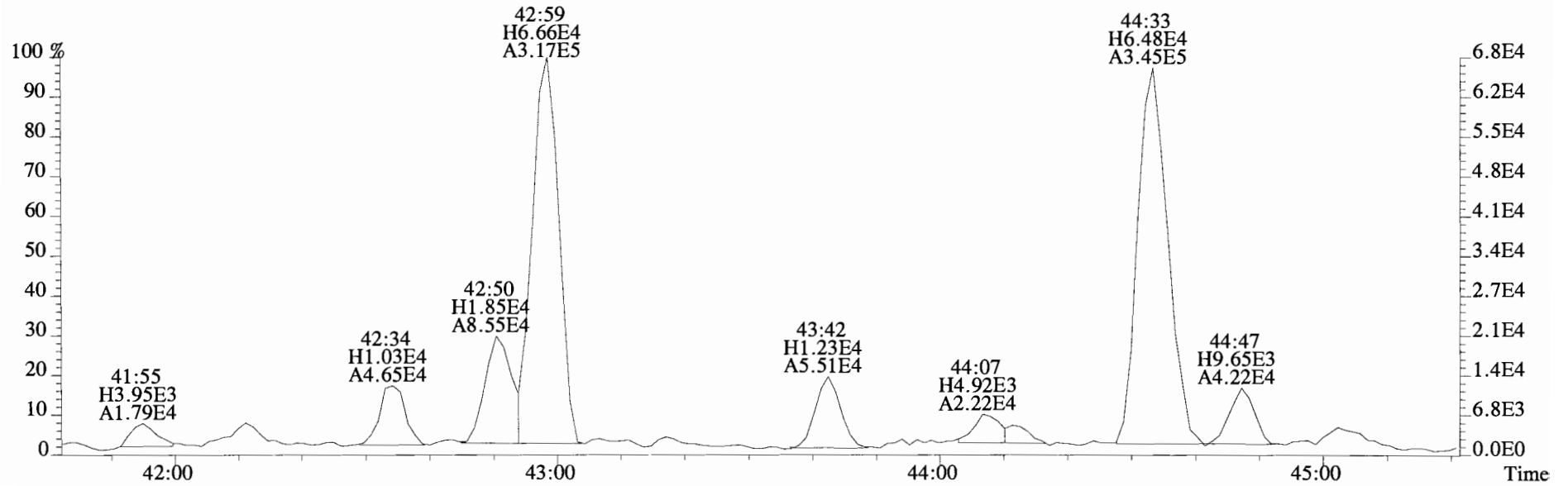
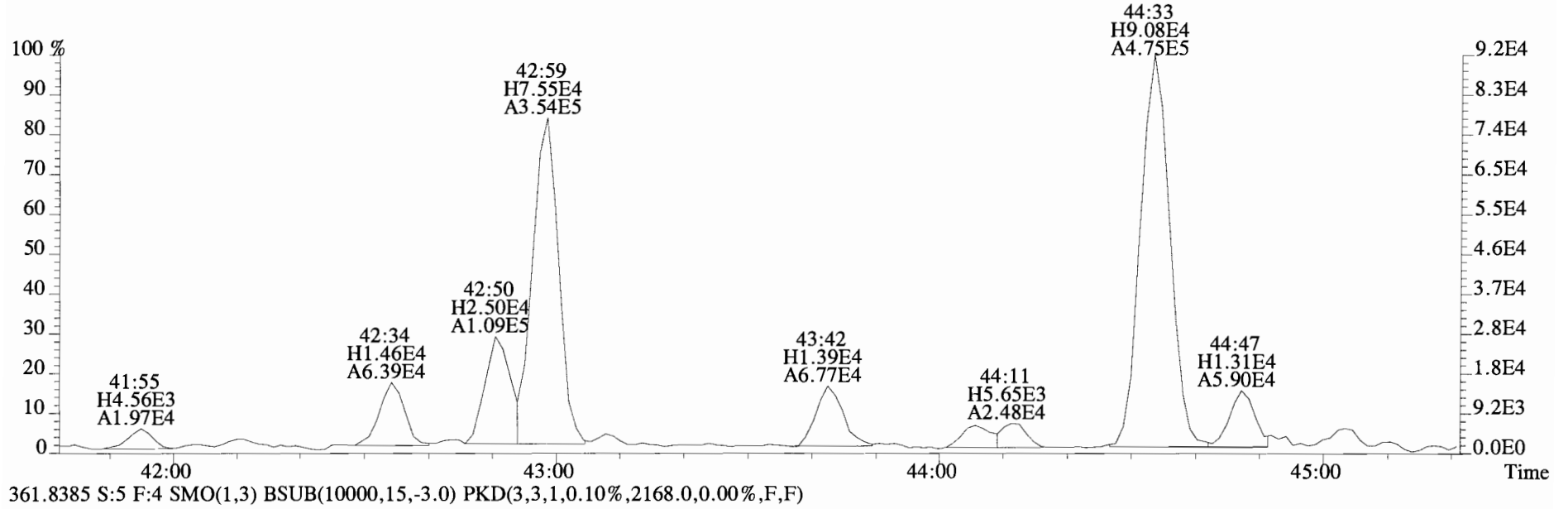




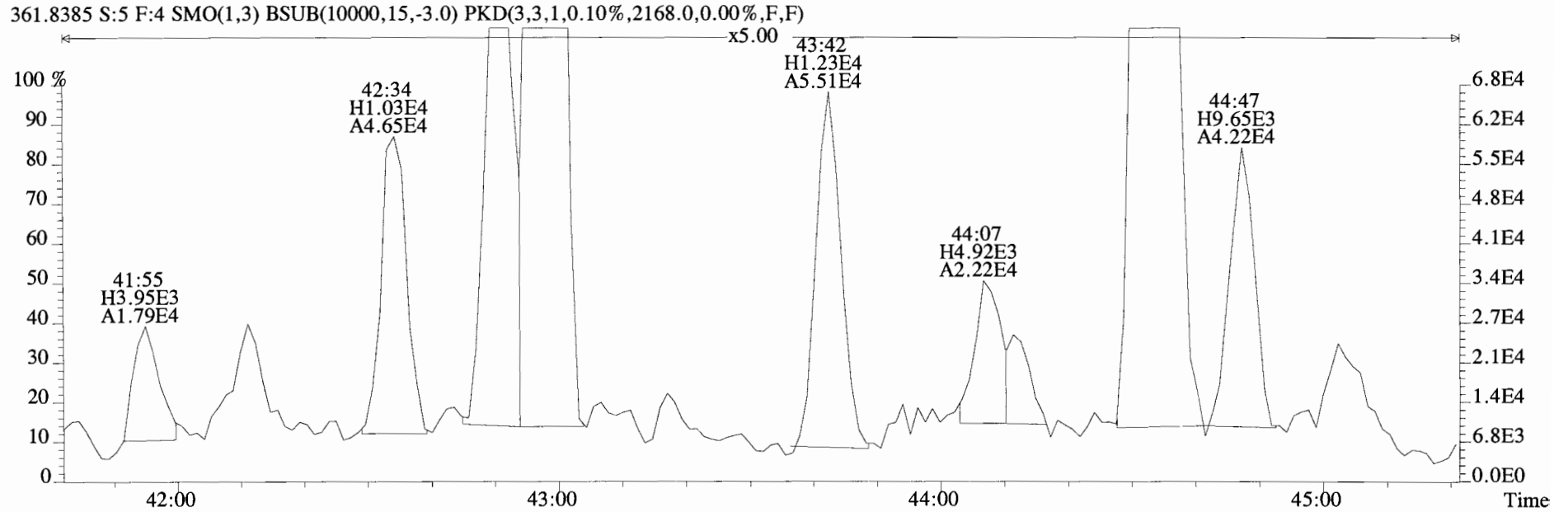
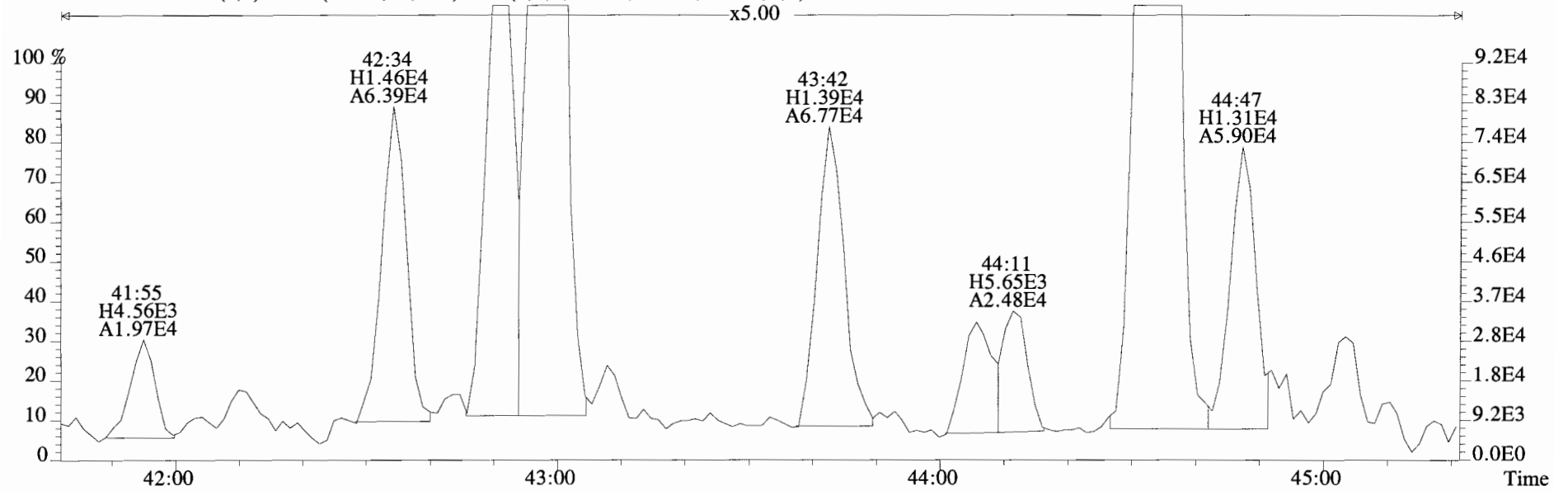
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5948.0,0.00%,F,F)



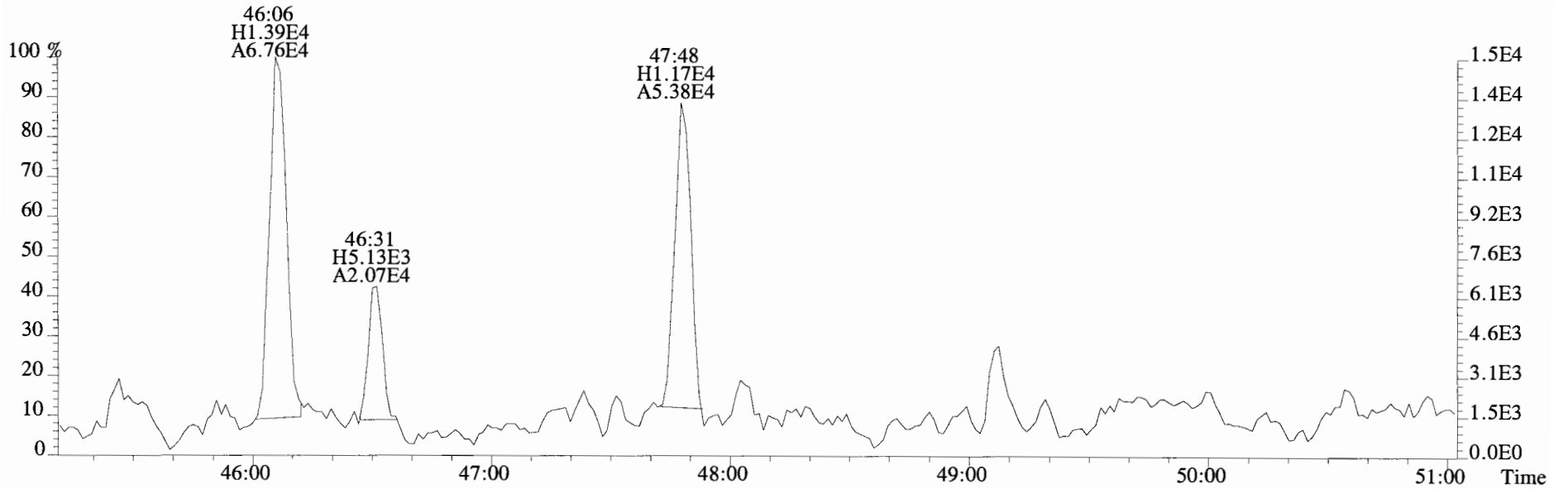
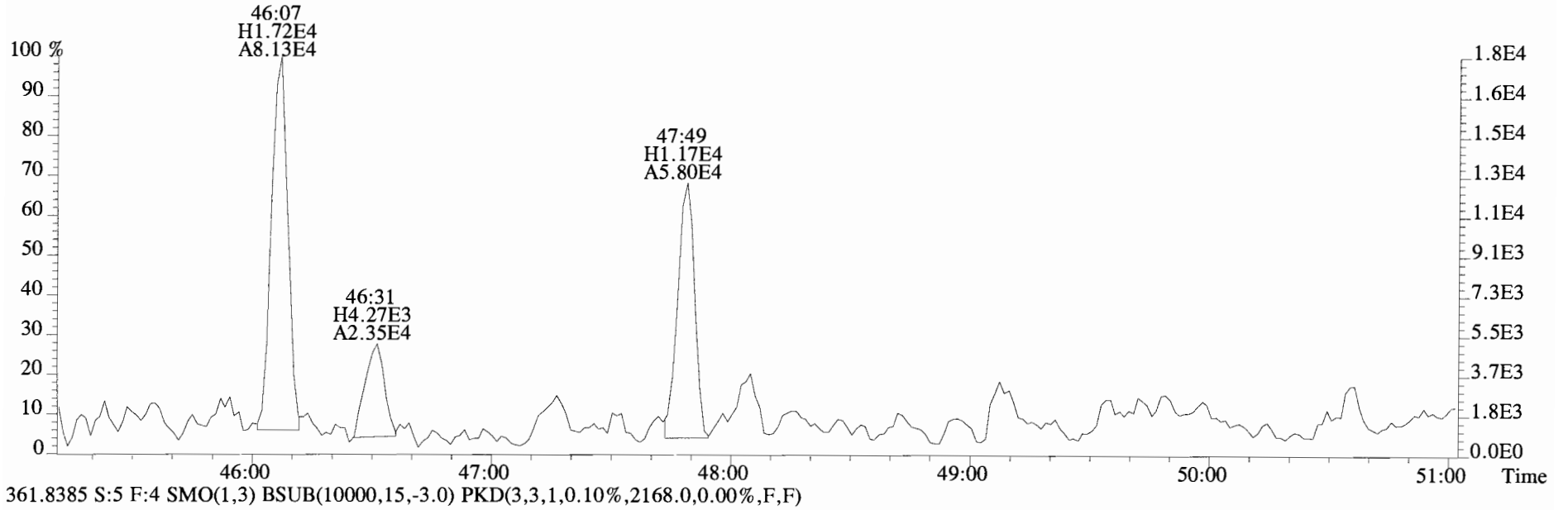
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 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
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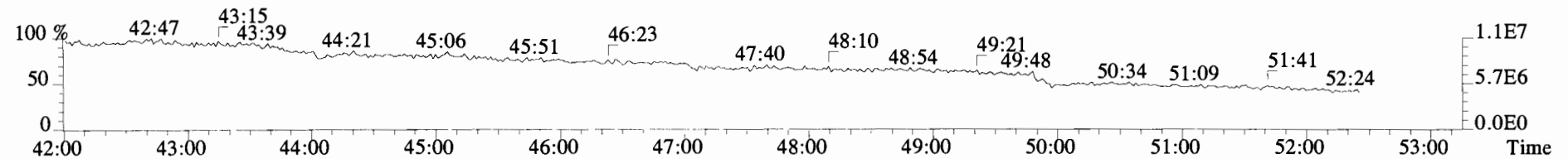
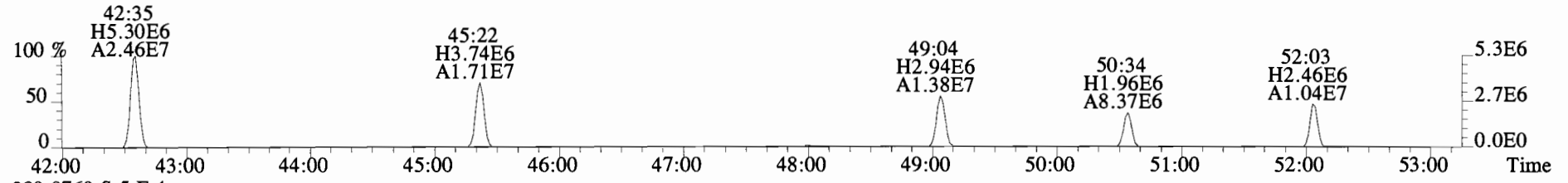
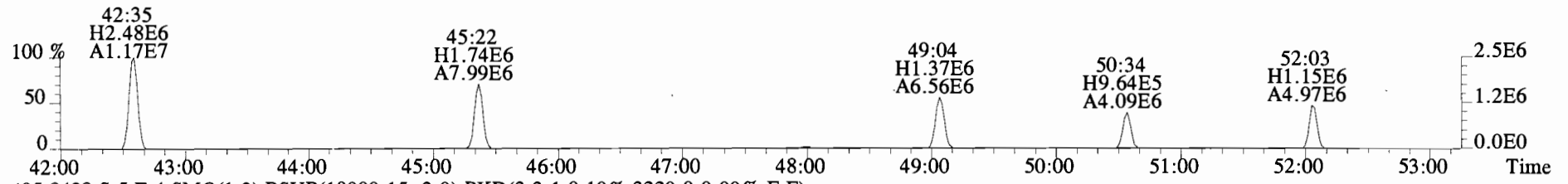
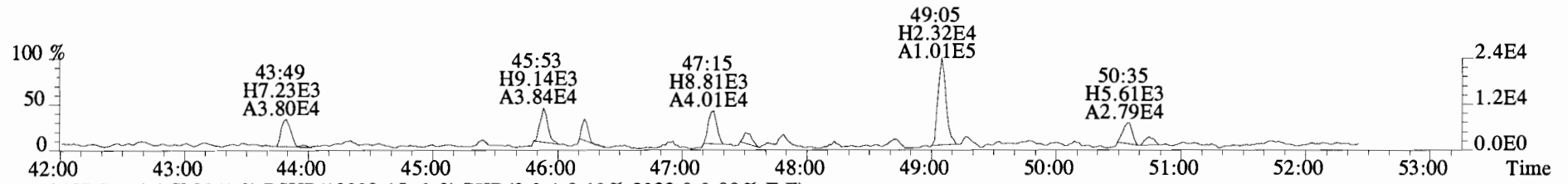
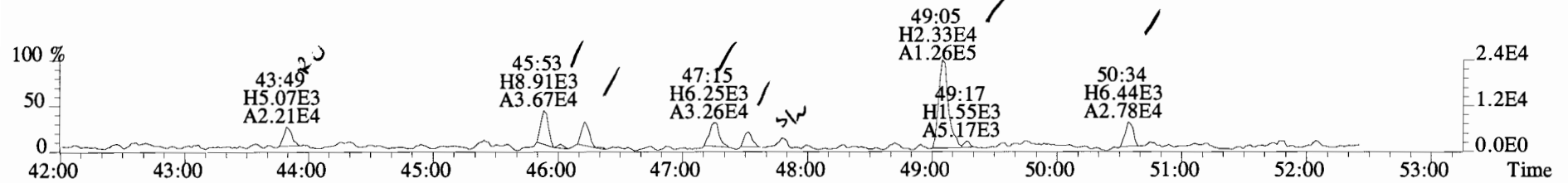
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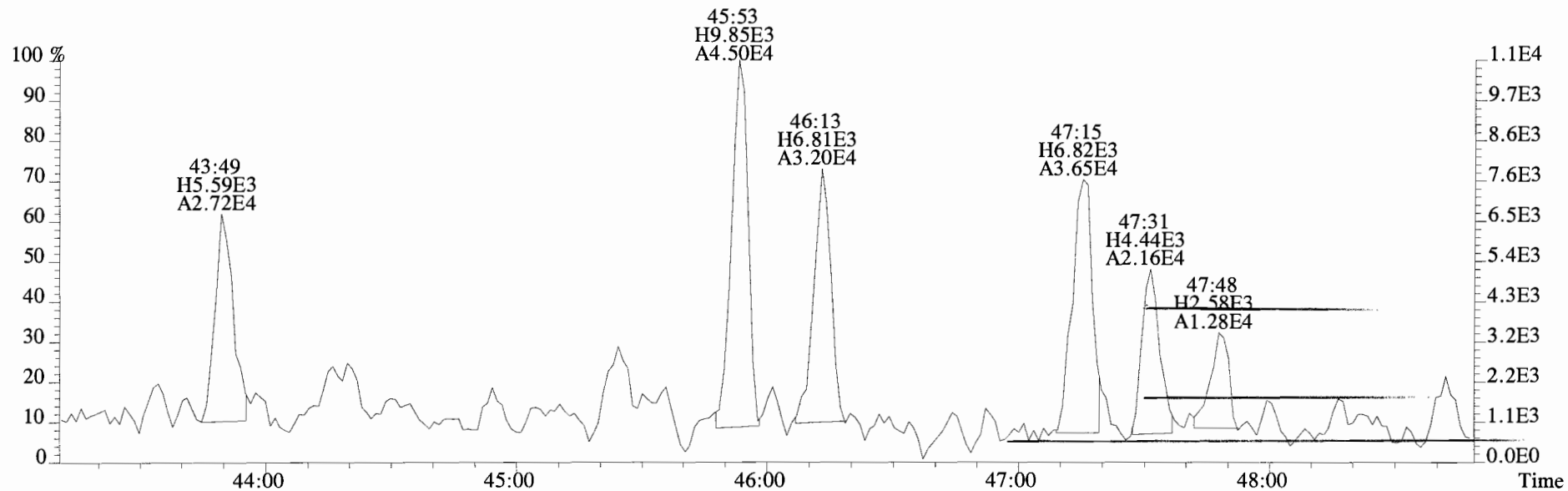
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2064.0,0.00%,F,F)



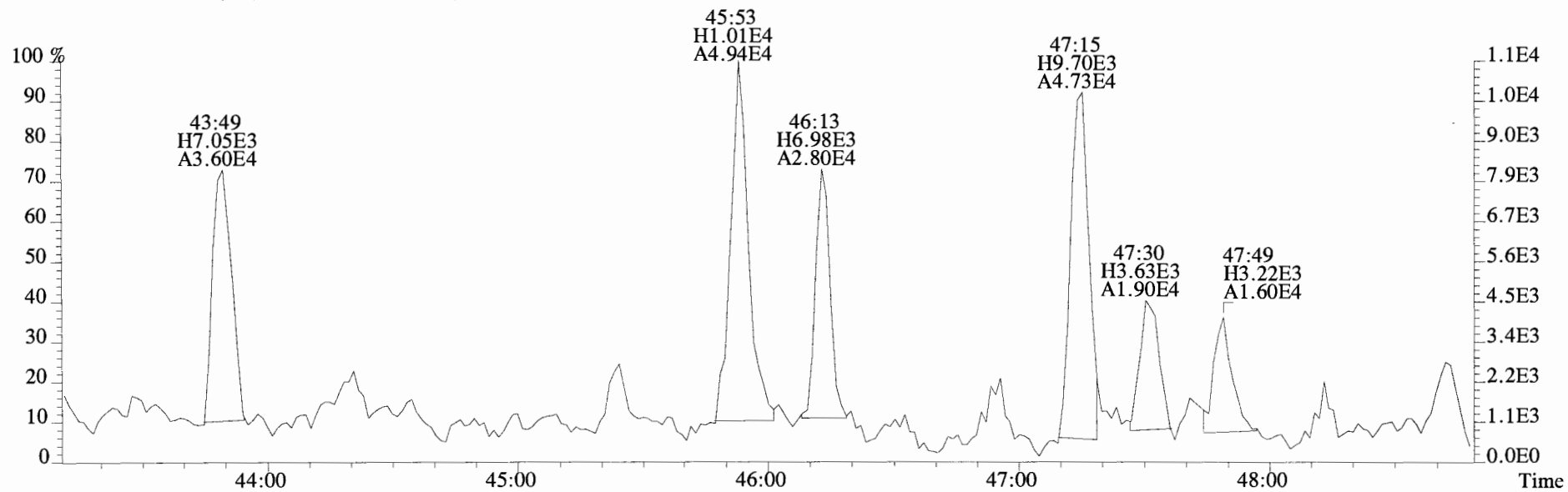
File:140910E2 #1-557 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



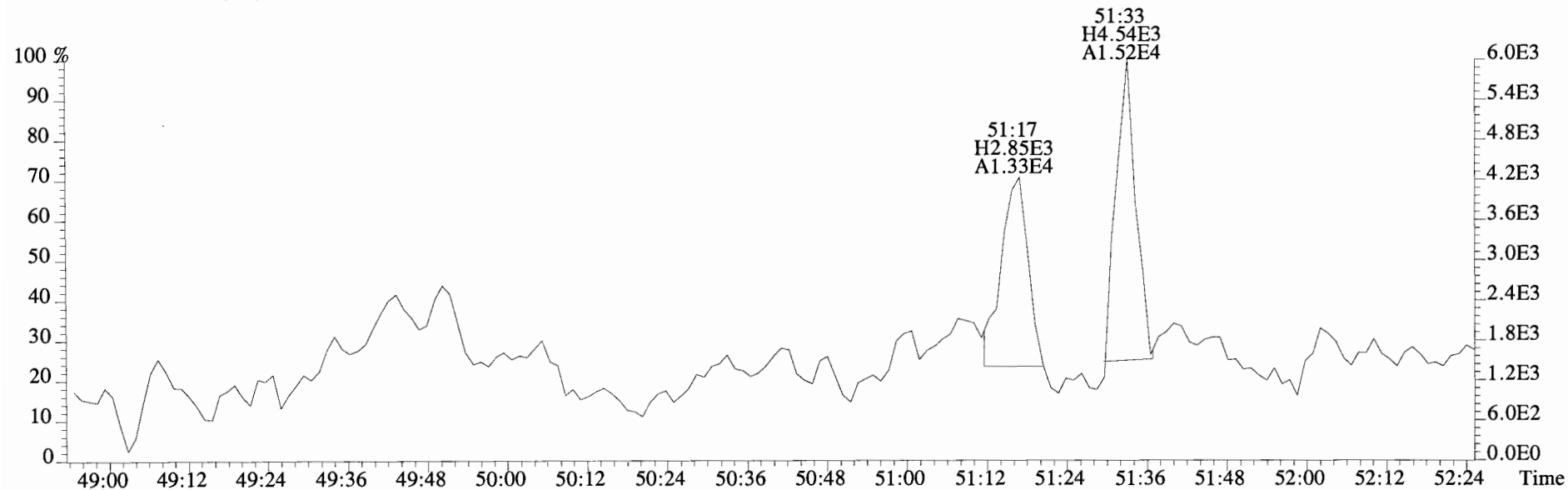
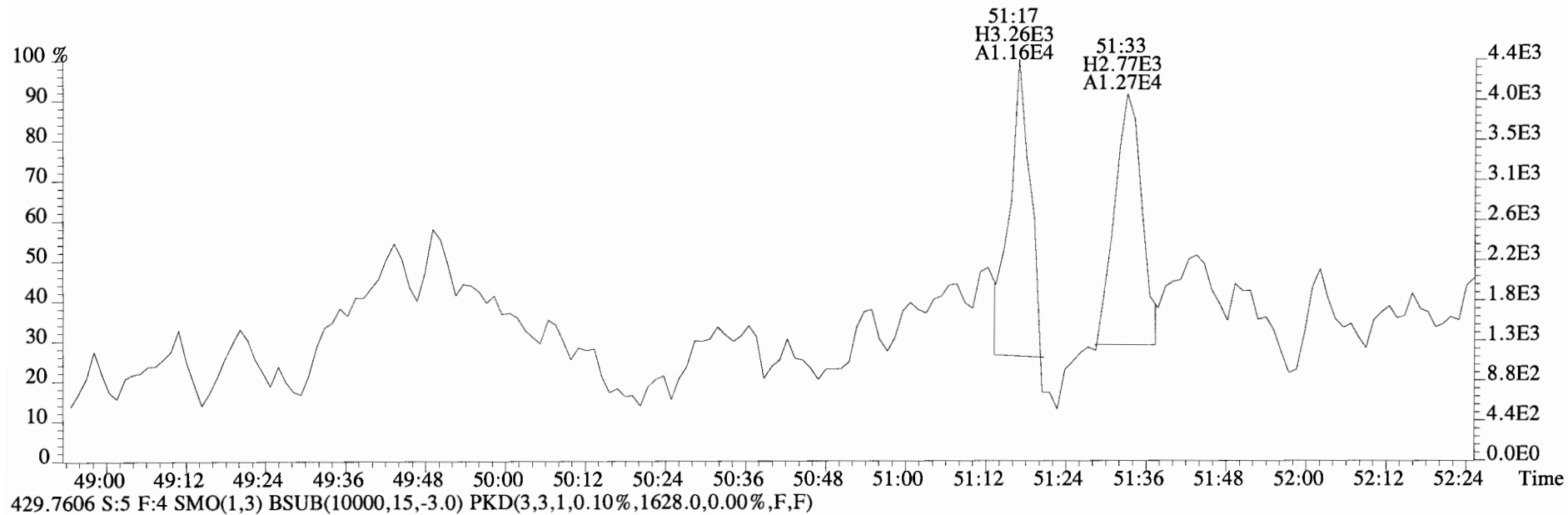
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 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
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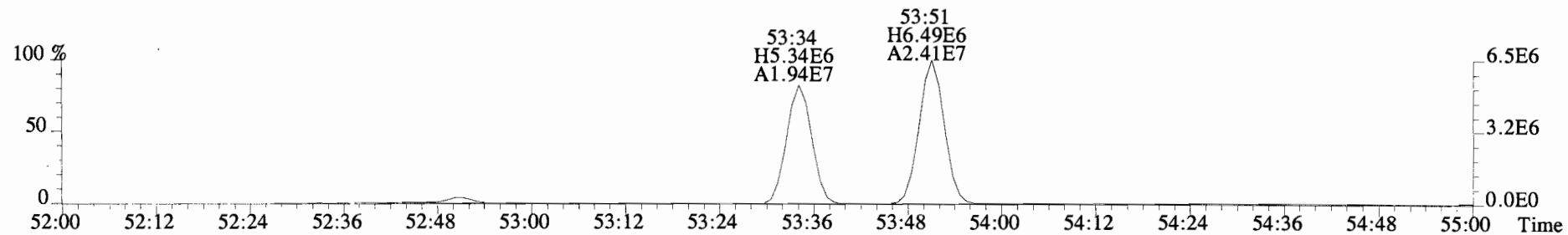
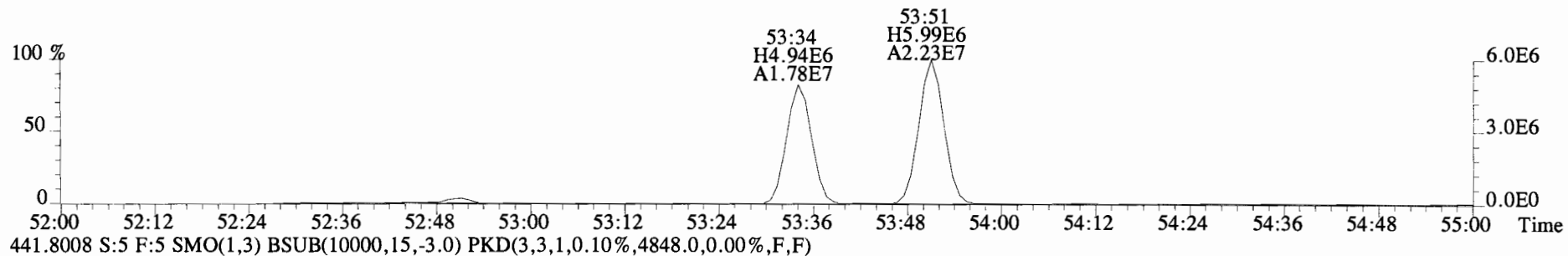
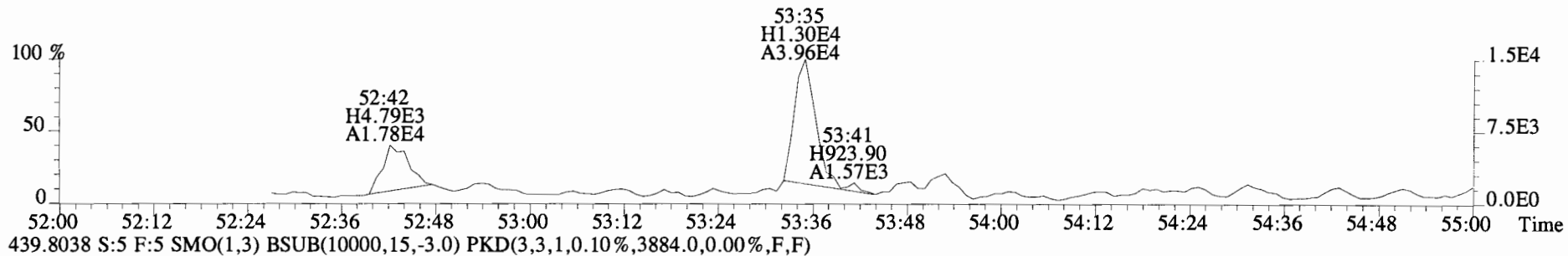
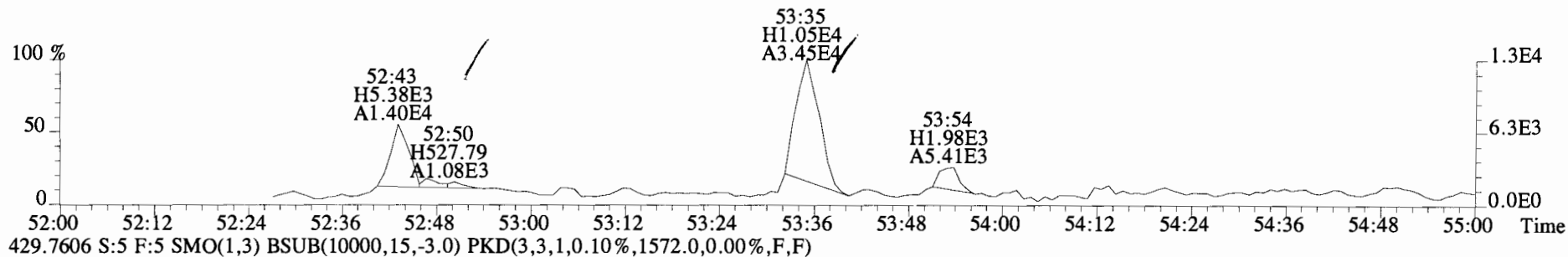
395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



File:140910E2 #1-557 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)

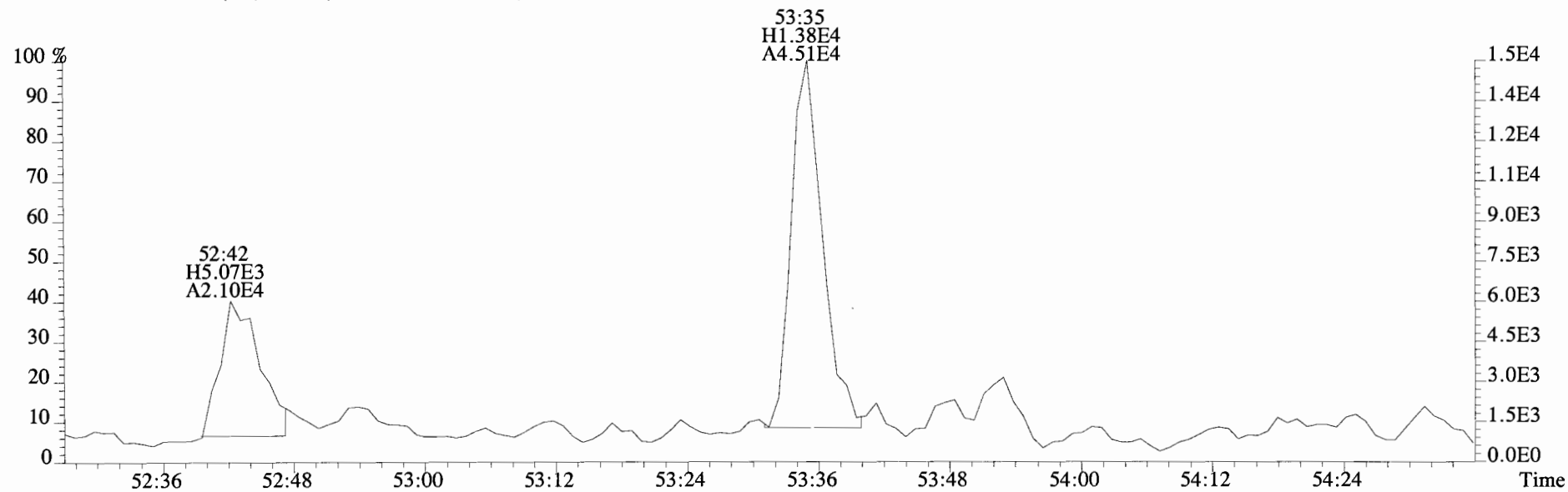
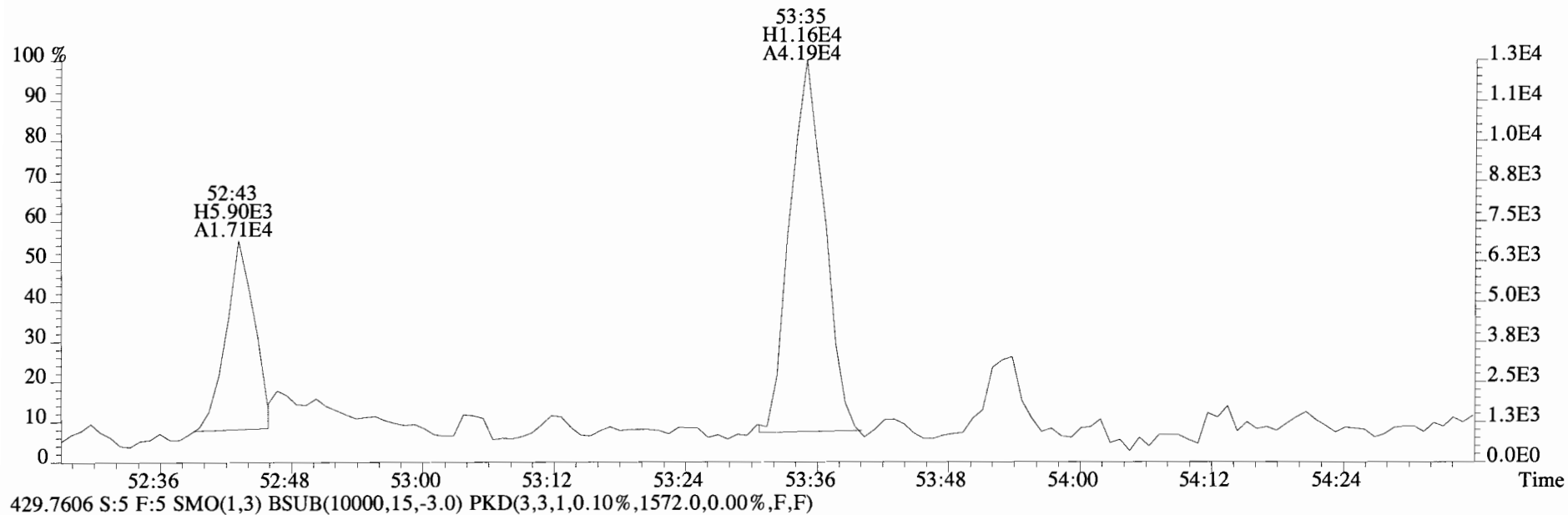


File:140910E2 #1-441 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)

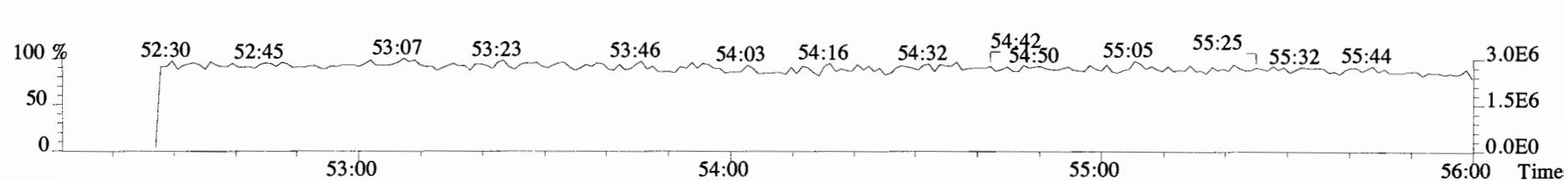
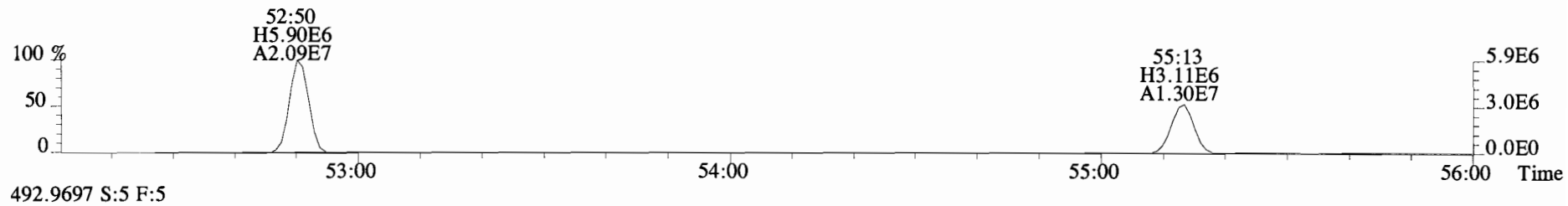
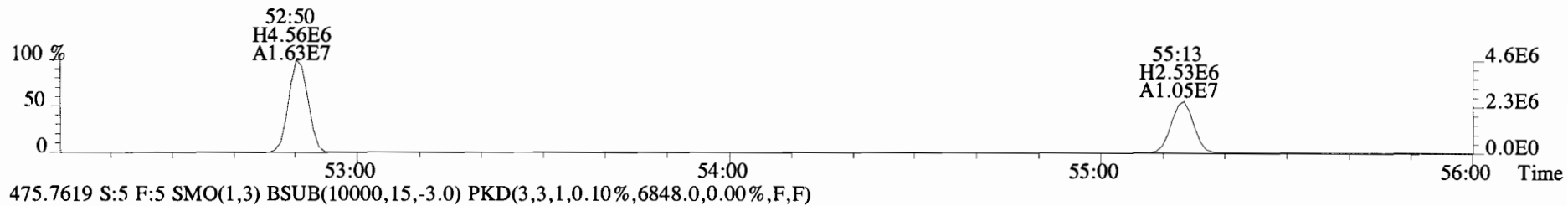
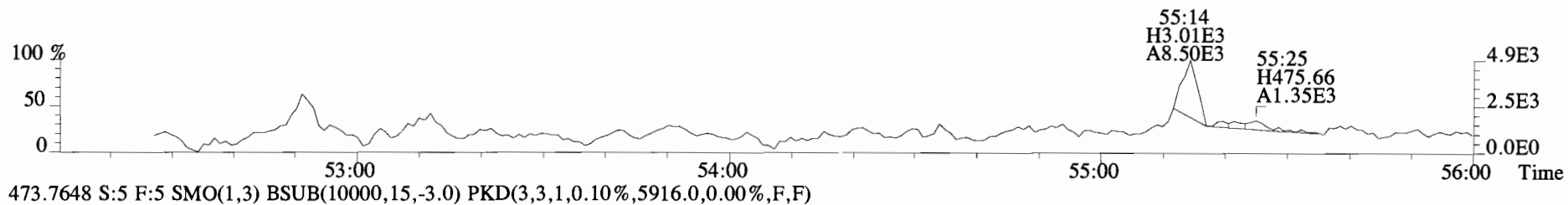
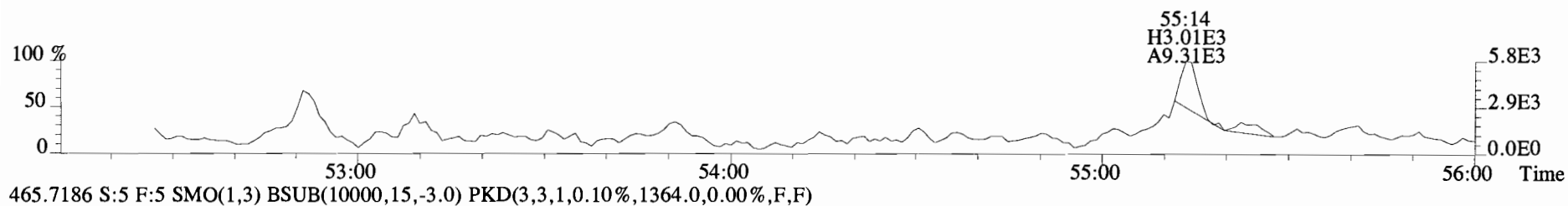




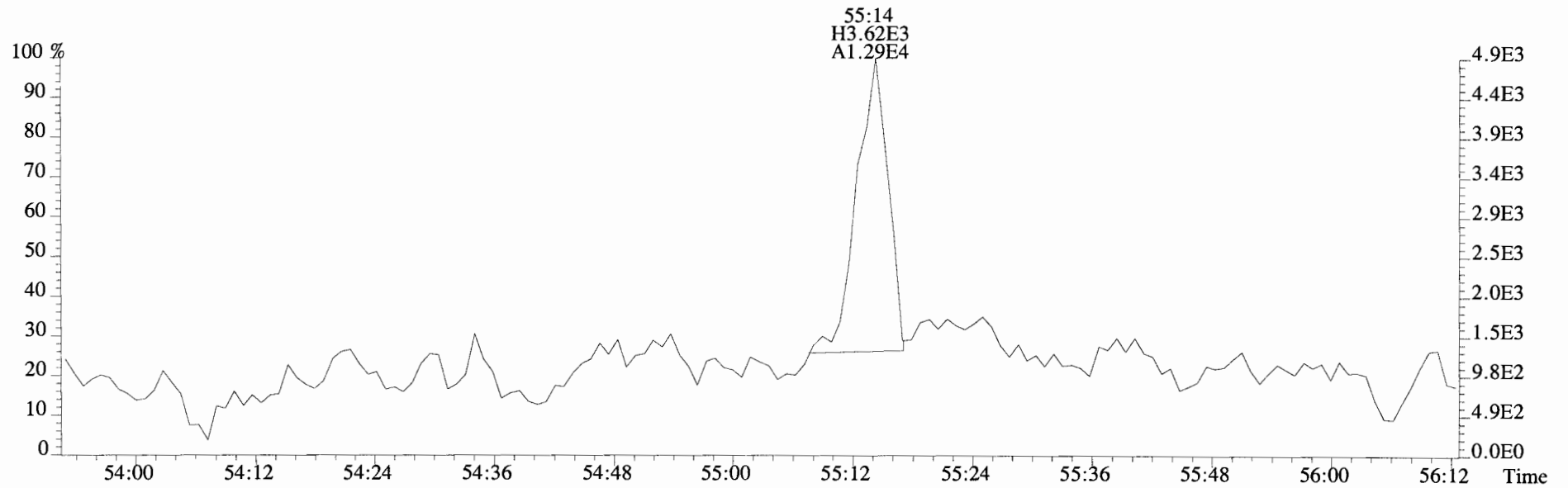
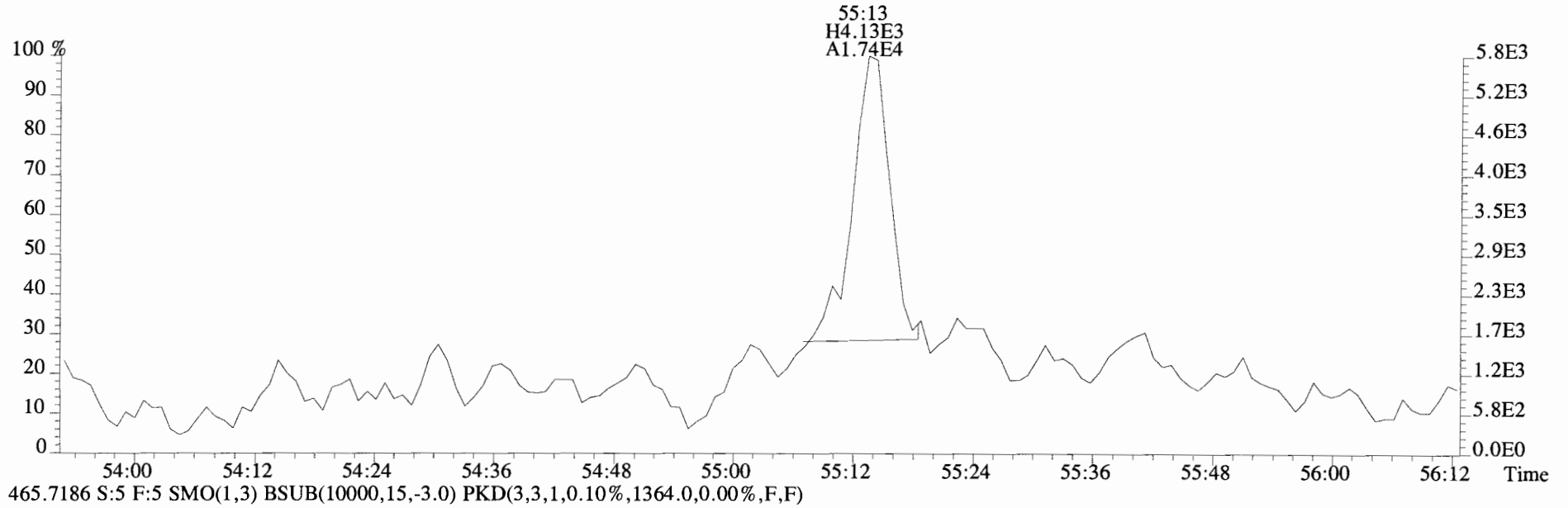
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



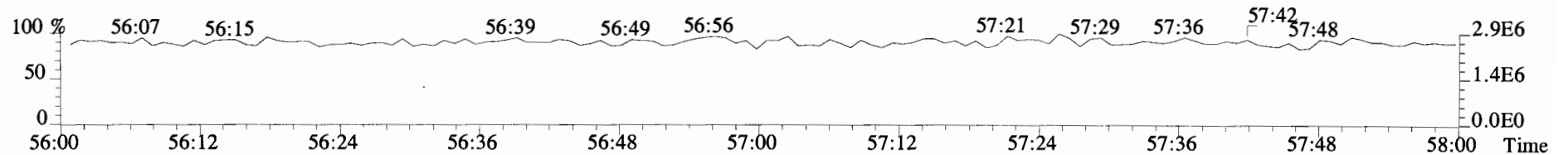
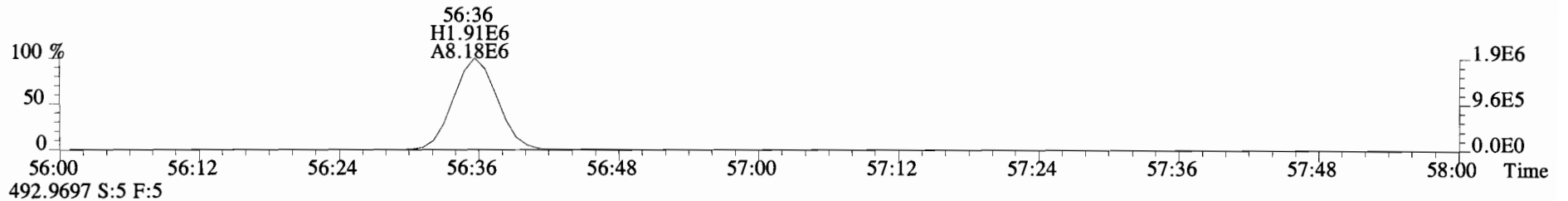
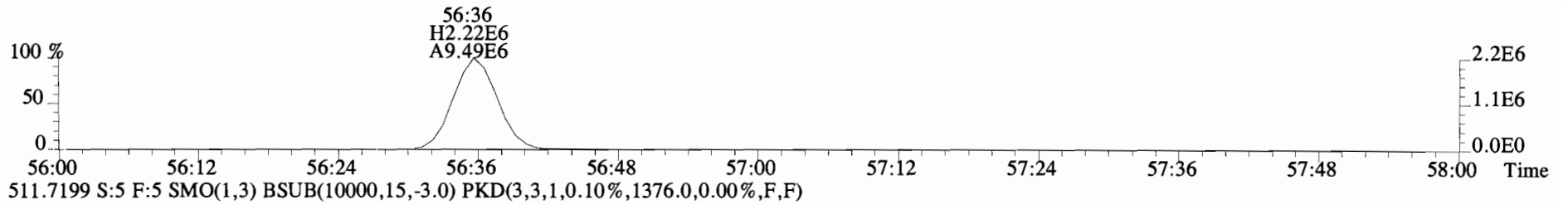
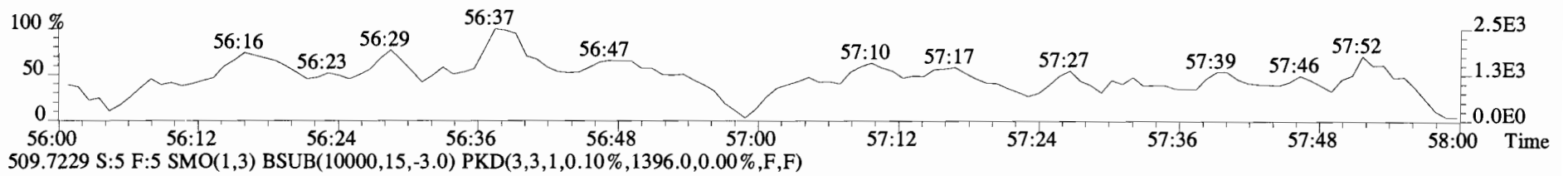
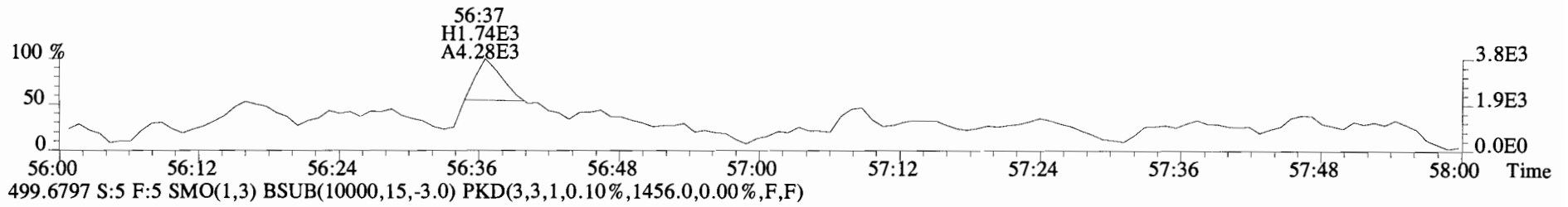
File:140910E2 #1-441 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1344.0,0.00%,F,F)



File:140910E2 #1-441 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1344.0,0.00%,F,F)



File:140910E2 #1-441 Acq:11-SEP-2014 04:17:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400647-01 QC-EB-01-20140903-W 0.98036 Exp:PCB\_ZB1  
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1260.0,0.00%,F,F)



Client ID: CS-TS-01-20140903-W  
Lab ID: 1400647-02

Filename: 140910E2  
GC Column ID: ZB-1

S:6 Acq:11-SEP-14 05:21:42  
ICal: PCBVG8-6-20-14 wt/vol: 0.934

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	1.26e+06	2.92	y 16:13	1.25	11.4		*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	2.22e+05	2.86	y 18:32	1.18	2.11		*	2.5	*	0.988	0.983-0.993	
Mono	PCB-3	4.29e+05	2.71	y 18:46	1.22	3.96		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	3.06e+06	1.60	y 20:04	1.55	37.3		*	2.5	*	1.001	0.998-1.008	
Di	PCB-7/9	7.49e+05	1.62	y 21:50	1.27	6.97		*	2.5	*	0.869	0.865-0.873	
Di	PCB-6	1.75e+06	1.68	y 22:28	1.26	16.4		*	2.5	*	0.894	0.890-0.899	
Di	PCB-5/8	8.76e+06	1.62	y 22:52	1.23	83.8		*	2.5	*	0.910	0.906-0.916	
Di	PCB-14	*	*	n NotF $\eta$	1.23	*		16700	2.5	3.47	*	0.949-0.959	
Di	PCB-11	7.86e+06	1.68	y 25:08	1.16	70.2		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	6.06e+05	1.39	y 25:29	1.10	5.71		*	2.5	*	1.015	1.010-1.020	
Di	PCB-15	4.66e+06	1.71	y 25:50	1.21	39.9		*	2.5	*	1.029	1.024-1.034	
Tri	PCB-19	5.50e+05	1.09	y 24:08	1.30	10.0		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.83	*		1810	2.5	0.463	*	1.032-1.042	
Tri	PCB-18	4.72e+06	1.07	y 25:45	0.86	87.2		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	1.76e+06	1.05	y 25:55	0.90	31.1		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	5.52e+05	1.08	y 26:28	1.18	7.43		*	2.5	*	0.981	0.976-0.986	
Tri	PCB-16/32	3.80e+06	1.04	y 26:59	1.03	58.6		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.26	*		2380	2.5	0.577	*	0.956-0.966	
Tri	PCB-23	*	*	n NotF $\eta$	1.31	*		2380	2.5	0.555	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF $\eta$	1.33	*		2380	2.5	0.548	*	0.967-0.977	
Tri	PCB-26	1.51e+06	1.08	y 28:19	1.29	15.6		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	6.99e+05	1.10	y 28:29	1.34	6.95		*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	7.31e+06	1.05	y 28:50	1.42	68.7		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	7.46e+06	1.02	y 28:55	1.38	72.3		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	6.64e+06	1.05	y 29:34	1.31	67.6		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	3.68e+06	1.05	y 29:59	1.32	37.2		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.38	*		2380	2.5	0.648	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF $\eta$	1.42	*		2380	2.5	0.628	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF $\eta$	1.35	*		2380	2.5	0.659	*	0.967-0.976	
Tri	PCB-35	3.21e+05	1.12	y 32:21	1.38	3.73		*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	3.46e+06	1.11	y 32:47	1.39	39.7		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-54	*	*	n NotF $\eta$	1.20	*		2630	2.5	0.806	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.97	*		2630	2.5	0.998	*	1.037-1.047	
Tetra	PCB-53	5.12e+05	0.68	y 29:37	1.19	10.5		*	2.5	*	0.946	0.941-0.951	
Tetra	PCB-51	1.70e+05	0.83	y 29:57	1.15	3.58		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	5.47e+05	0.88	y 30:23	0.97	13.8		*	2.5	*	0.971	0.966-0.976	
Tetra	PCB-46	2.22e+05	0.85	y 30:52	0.95	5.68		*	2.5	*	0.986	0.982-0.992	

Integrations by:

Analyst: *DMS*

Date: *9/16/14*

Reviewed by: *[Signature]*

Date: *9/17/14*

Client ID: CS-TS-01-20140903-W  
Lab ID: 1400647-02

Filename: 140910E2  
GC Column ID: ZB-1

S:6 Acq:11-SEP-14 05:21:42  
ICal: PCBVG8-6-20-14 wt/vol: 0.934

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	3.61e+06	0.76	y 31:20	1.28	68.7	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.37	*	2630	2.5	0.940	*	*	1.000-1.010	
Tetra	PCB-43/49	2.08e+06	0.82	y 31:37	1.11	45.5	*	2.5	*	*	1.010	1.005-1.015	
Tetra	PCB-47	8.16e+05	0.74	y 31:50	1.13	16.9	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-48/75	7.67e+05	0.80	y 31:57	1.30	13.8	*	2.5	*	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.33	*	2630	2.5	0.945	*	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF $\eta$	1.29	*	2630	2.5	0.976	*	*	1.011-1.021	
Tetra	PCB-44	2.66e+06	0.77	y 32:37	0.94	66.4	*	2.5	0.94	*	1.025	1.020-1.030	
Tetra	PCB-42/59	1.28e+06	0.74	y 32:51	1.22	24.7	*	2.5	*	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	3.57e+06	0.79	y 33:26	1.31	63.9	*	2.5	*	*	1.051	1.046-1.056	
Tetra	PCB-68	8.25e+04	0.83	y 33:41	1.49	1.30	*	2.5	*	*	1.059	1.054-1.064	
Tetra	PCB-40	5.78e+05	0.71	y 33:53	0.82	16.6	*	2.5	*	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF $\eta$	1.11	*	2630	2.5	1.01	*	*	0.965-0.975	
Tetra	PCB-67	1.32e+05	0.88	y 34:33	1.07	2.49	*	2.5	*	*	0.979	0.974-0.984	
Tetra	PCB-58	*	*	n NotF $\eta$	1.10	*	2630	2.5	1.02	*	*	0.977-0.987	
Tetra	PCB-63	1.39e+05	0.67	y 34:49	1.12	2.51	*	2.5	*	*	0.986	0.982-0.992	
Tetra	PCB-74	1.58e+06	0.82	y 35:06	1.20	26.6	*	2.5	*	*	0.994	0.990-1.000	
Tetra	PCB-61/70	4.42e+06	0.79	y 35:18	1.08	82.9	*	2.5	*	*	1.000	0.994-1.004	
Tetra	PCB-76/66	3.16e+06	0.76	y 35:31	1.14	56.2	*	2.5	*	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.28	*	2630	2.5	0.879	*	*	0.996-1.006	
Tetra	PCB-55	1.15e+05	0.73	y 36:01	1.11	2.03	*	2.5	*	*	1.009	1.005-1.015	
Tetra	PCB-56/60	2.68e+06	0.84	y 36:32	1.09	48.5	*	2.5	*	*	1.023	1.018-1.028	
Tetra	PCB-79	9.99e+04	0.72	y 37:37	1.12	1.75	*	2.5	*	*	1.054	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.24	*	2630	2.5	1.12	*	*	0.982-0.992	
Tetra	PCB-81	3.77e+04	0.83	y 38:47	1.38	0.666	*	2.5	*	*	1.000	0.995-1.005	
Tetra	PCB-77	7.15e+05	0.77	y 39:24	1.21	13.8	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.26	*	1960	2.5	1.88	*	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF $\eta$	1.09	*	1960	2.5	2.17	*	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF $\eta$	0.93	*	1960	2.5	2.54	*	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	1.00	*	1960	2.5	2.36	*	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.11	*	1960	2.5	3.24	*	*	0.981-0.991	
Penta	PCB-95/98/102	1.82e+06	1.61	y 35:36	1.21	93.1	*	2.5	*	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF $\eta$	1.13	*	1960	2.5	3.18	*	*	0.998-1.008	
Penta	PCB-88/91	2.34e+05	1.78	y 36:00	1.02	14.2	*	2.5	*	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF $\eta$	1.90	*	1960	2.5	1.89	*	*	1.009-1.019	
Penta	PCB-84/92	9.63e+05	1.66	y 36:54	1.05	56.7	*	2.5	*	*	0.990	0.986-0.996	
Penta	PCB-89	*	*	n NotF $\eta$	1.02	*	1960	2.5	3.76	*	*	0.991-1.001	

Analyst: DMS

Date: 9/16/14

Client ID: CS-TS-01-20140903-W  
Lab ID: 1400647-02

Filename: 140910E2  
GC Column ID: ZB-1

S:6 Acq:11-SEP-14 05:21:42  
Ical: PCBVG8-6-20-14 wt/vol: 0.934

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	2.72e+06	1.63	y 37:16	1.19	142		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-113	6.00e+04	1.77	y 37:29	1.35	2.75		*	2.5	*	1.006	1.002-1.012	
Penta	PCB-99	9.91e+05	1.52	y 37:36	1.29	47.7		*	2.5	*	1.009	1.005-1.015	
Penta	PCB-119	6.76e+04	1.48	y 38:04	1.72	2.84		*	2.5	*	0.987	0.982-0.992	
Penta	PCB-108/112	1.22e+05	1.36	y 38:14	1.29	6.84		*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF $\eta$	1.52	*		1960	2.5	2.86	*	0.991-1.001	
Penta	PCB-97	6.40e+05	1.49	y 38:35	1.25	37.1		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-86	*	*	n NotF $\eta$	1.02	*		1960	2.5	4.25	*	1.000-1.010	
Penta	PCB-87/117/125	1.01e+06	1.61	y 38:52	1.56	47.0		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	5.32e+04	1.13	n 39:00	1.75	2.19	R	*	2.5	*	1.011	1.007-1.017	
Penta	PCB-85/116	3.63e+05	1.65	y 39:07	1.30	20.2		*	2.5	*	1.014	1.010-1.020	
Penta	PCB-120	2.92e+04	1.09	n 39:20	1.78	1.18	R	*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	3.44e+06	1.60	y 39:31	1.68	148		*	2.5	*	1.025	1.020-1.030	
Penta	PCB-82	2.01e+05	2.00	n 40:08	0.74	16.9	R	*	2.5	*	0.976	0.972-0.982	
Penta	PCB-124	1.54e+05	1.72	y 40:48	1.32	7.24		*	2.5	*	0.992	0.988-0.998	
Penta	PCB-107/109	2.16e+05	1.60	y 40:59	1.22	11.0		*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	3.75e+04	1.98	n 41:08	1.22	1.91	R	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-106/118	2.67e+06	1.66	y 41:18	1.22	130		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	*	*	n NotF $\eta$	1.36	*		*	2.5	*	*	0.995-1.005	
Penta	PCB-122	*	*	n NotF $\eta$	1.24	*		*	2.5	*	*	0.999-1.009	
Penta	PCB-105	*	*	n NotF $\eta$	1.28	*		*	2.5	*	*	0.995-1.005	
Penta	PCB-127	*	*	n NotF $\eta$	1.14	*		*	2.5	*	*	0.995-1.005	
Penta	PCB-126	*	*	n NotF $\eta$	1.28	*		*	2.5	*	*	0.995-1.005	
Hexa	PCB-155	*	*	n NotF $\eta$	1.14	*		1460	2.5	3.16	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF $\eta$	1.06	*		1460	2.5	3.37	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF $\eta$	1.10	*		1460	2.5	3.26	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF $\eta$	1.09	*		1460	2.5	3.28	*	1.055-1.065	
Hexa	PCB-136	2.96e+05	1.27	y 39:19	1.08	25.2		*	2.5	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF $\eta$	0.74	*		1460	2.5	4.84	*	1.066-1.076	
Hexa	PCB-154	3.90e+04	1.27	y 39:54	0.88	4.09		*	2.5	*	1.084	1.079-1.089	
Hexa	PCB-151	4.04e+05	1.32	y 40:33	0.81	46.3		*	2.5	*	1.102	1.097-1.107	
Hexa	PCB-135	2.25e+05	1.28	y 40:46	0.78	26.8		*	2.5	*	1.108	1.101-1.113	
Hexa	PCB-144	7.42e+04	1.42	y 40:52	0.82	8.37		*	2.5	*	1.111	1.105-1.116	
Hexa	PCB-147	*	*	n NotF $\eta$	0.83	*		1460	2.5	4.32	*	1.011-1.120	
Hexa	PCB-139/149	1.43e+06	1.32	y 41:15	0.84	157		*	2.5	*	1.121	1.115-1.127	
Hexa	PCB-140	*	*	n NotF $\eta$	0.79	*		1460	2.5	4.56	*	1.120-1.132	
Hexa	PCB-134/143	3.08e+05	1.24	y 41:54	0.93	11.8		*	2.5	*	0.975	0.970-0.980	

See  
1:5  
Dilution

Analyst: Dms

Date: 9/18/14

Client ID: CS-TS-01-20140903-W  
Lab ID: 1400647-02

Filename: 140910E2  
GC Column ID: ZB-1

S:6 Acq:11-SEP-14 05:21:42  
ICal: PCBVG8-6-20-14 wt/vol: 0.934

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	1.53e+05	1.01	n 42:11	0.95	5.75	R	*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotFη	0.91	*		2180	2.5	2.39	*	0.981-0.991	
Hexa	PCB-146/165	1.22e+06	1.26	y 42:34	1.16	37.4		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	1.98e+06	1.32	y 42:50	1.11	63.2		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	7.20e+06	1.19	y 42:59	1.18	217		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotFη	1.37	*		2180	2.5	1.60	*	1.000-1.010	
Hexa	PCB-141	1.13e+06	1.23	y 43:42	0.97	51.5		*	2.5	*	1.000	0.996-1.005	
Hexa	PCB-137	1.37e+05	0.84	n 44:06	1.07	5.69	R	*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	3.04e+05	1.25	y 44:13	0.85	15.9		*	2.5	*	1.012	1.007-1.017	
Hexa	PCB-138/163/164	6.53e+06	1.23	y 44:35	1.23	250		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	7.47e+05	1.27	y 44:48	1.29	27.2		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	1.86e+05	1.16	y 45:03	0.92	9.43		*	2.5	*	1.011	1.007-1.017	
Hexa	PCB-166	*	*	n NotFη	1.12	*		2180	2.5	2.29	*	0.988-0.998	
Hexa	PCB-159	*	*	y NotFη	1.16	*		2180	2.5	2.19	*	0.995-1.005	
Hexa	PCB-128/162	8.36e+05	1.17	y 46:07	1.02	33.0		*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	3.18e+05	1.18	y 46:31	1.06	11.2		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	5.57e+05	1.05	n 47:50	1.18	18.9	R	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-157	1.44e+05	1.36	y 48:06	1.08	5.20		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotFη	1.11	*		2180	2.5	2.57	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotFη	1.40	*		1420	2.5	1.08	*	0.995-1.005	
Hepta	PCB-184	*	*	n NotFη	1.24	*		1420	2.5	1.22	*	1.006-1.016	
Hepta	PCB-179	5.87e+05	1.12	y 43:51	1.30	27.2		*	2.5	*	1.030	1.024-1.034	
Hepta	PCB-176	1.85e+05	1.10	y 44:18	1.36	8.22		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotFη	1.28	*		1420	2.5	1.19	*	1.049-1.059	
Hepta	PCB-178	2.19e+05	0.93	y 45:24	0.94	14.1		*	2.5	*	1.066	1.061-1.071	
Hepta	PCB-175	3.22e+04	2.01	n 45:45	0.97	2.01	R	*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	1.42e+06	1.10	y 45:54	1.01	84.4		*	2.5	*	1.078	1.073-1.083	
Hepta	PCB-183	6.50e+05	0.94	y 46:14	1.08	36.3		*	2.5	*	1.086	1.080-1.090	
Hepta	PCB-185	1.19e+05	0.97	y 46:53	1.34	10.2		*	2.5	*	0.955	0.951-0.961	
Hepta	PCB-174	1.06e+06	1.07	y 47:15	1.34	91.0		*	2.5	*	0.962	0.958-0.968	
Hepta	PCB-181	*	*	n NotFη	1.36	*		1420	2.5	2.28	*	0.961-0.971	
Hepta	PCB-177	6.28e+05	1.07	y 47:33	1.24	58.3		*	2.5	*	0.968	0.964-0.974	
Hepta	PCB-171	2.56e+05	0.89	n 47:50	1.31	22.4		*	2.5	*	0.974	0.970-0.980	
Hepta	PCB-173	*	*	y NotFη	1.16	*		1420	2.5	2.68	*	0.979-0.989	
Hepta	PCB-172	1.77e+05	1.01	y 48:42	1.22	16.7		*	2.5	*	0.992	0.988-0.998	
Hepta	PCB-192	*	*	n NotFη	1.53	*		1420	2.5	2.04	*	0.991-1.001	
Hepta	PCB-180	2.39e+06	1.07	y 49:07	1.43	193		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 9/10/14



Client ID: CS-TS-01-20140903-W  
Lab ID: 1400647-02

Filename: 140910E2  
GC Column ID: ZB-1

S:6 Acq:11-SEP-14 05:21:42  
ICal: PCBVG8-6-20-14 wt/vol: 0.934

ConCal: ST140910E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	1.56e+05	1.03	y 49:19	1.65	10.9		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	5.11e+04	0.91	y 49:34	1.67	3.52		*	2.5	*	1.010	1.004-1.014	
Hepta	PCB-170	9.06e+05	1.03	y 50:36	1.50	86.6		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	2.18e+05	1.07	y 50:47	2.02	15.5		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	3.41e+04	2.12	n 52:07	1.54	2.41	R	*	2.5	*	1.001	0.995-1.005	
Octa	PCB-202	8.20e+04	0.93	y 48:03	1.04	11.4		*	2.5	*	1.001	0.995-1.005	
Octa	PCB-201	6.50e+04	0.82	y 48:32	1.10	8.51		*	2.5	*	1.011	1.006-1.016	
Octa	PCB-204	*	*	n NotFη	0.99	*		1110	2.5	3.98	*	1.009-1.019	
Octa	PCB-197	*	*	n NotFη	1.07	*		1110	2.5	3.70	*	1.015-1.025	
Octa	PCB-200	4.10e+04	1.01	y 49:51	1.02	5.82		*	2.5	*	1.039	1.032-1.044	
Octa	PCB-198	*	*	n NotFη	0.74	*		1110	2.5	5.34	*	1.058-1.068	
Octa	PCB-199	2.58e+05	1.00	y 51:18	0.73	51.1		*	2.5	*	1.069	1.060-1.070	
Octa	PCB-196/203	3.09e+05	0.79	y 51:34	0.77	57.8		*	2.5	*	1.074	1.066-1.076	
Octa	PCB-195	4.21e+05	0.92	y 52:44	1.20	18.6		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	9.69e+05	0.92	y 53:38	1.25	41.1		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	7.32e+04	0.86	y 53:54	1.41	2.74		*	2.5	*	1.005	1.001-1.011	
Nona	PCB-208	1.20e+05	1.33	y 52:53	0.96	6.21		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	5.31e+04	1.36	y 53:12	0.92	2.87		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	2.60e+05	1.17	y 55:18	1.03	18.8		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	8.33e+04	0.84	n 56:40	1.18	6.18	R	*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 9/16/14

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.91e+06	2.92 y	16:13	1.22	17.5049	
Total Di-PCB	2.74e+07	1.60 y	20:04	1.21	260.224	
Total Tri-PCB	1.14e+07	1.09 y	24:08	1.16	194.275	
Total Tri-PCB	3.11e+07	1.08 y	28:19	1.35	311.879	Sum:506.154
Total Tetra-PCB	3.00e+07	0.68 y	29:37	1.17	588.588	
Total Penta-PCB	1.55e+07	1.61 y	35:36	1.21	765.963	
Total Penta-PCB	*	* n	Not Fnd	1.26	57.377*	Sum:765.963
Total Hexa-PCB	2.47e+06	1.27 y	39:19	0.92	267.298	
Total Hexa-PCB	2.09e+07	1.24 y	41:54	1.08	733.241	Sum:1000.54
Total Hepta-PCB	8.76e+06	1.12 y	43:51	1.27	655.499	
Total Octa-PCB	7.56e+05	0.93 y	48:03	0.92	134.607	
Total Octa-PCB	1.46e+06	0.92 y	52:44	1.29	62.4344	Sum:197.041
Total Nona-PCB	4.34e+05	1.33 y	52:53	0.96	27.9163	
Total Deca-PCB	8.33e+04	0.84 n	56:40	1.18	6.18448	

Total PCB Conc: ~~4185.00970000~~  
4080

\* 57.377\* + 57.377 = 823.34

\* + 61.2477 = 4166.3

\* See 1:5 Dilution

Integrations  
by  
Analyst: Dmf  
Date: 9/16/14

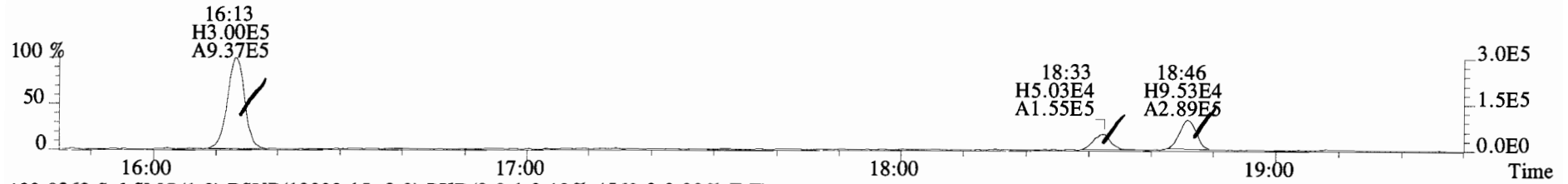
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.88e+08	3.29	y	0.89	16:12	0.628	0.622-0.628	1920	89.8											
13C-PCB-3	1.91e+08	3.34	y	0.93	18:45	0.726	0.721-0.729	1870	87.5	13C-PCB-79	1.19e+08	0.79	y	1.01	37:35	1.029	1.023-1.033	2130	99.4	
13C-PCB-4	1.13e+08	1.63	y	0.55	20:03	0.777	0.772-0.780	1880	87.9	13C-PCB-178	2.18e+07	0.48	y	0.63	45:23	0.984	0.979-0.989	1610	75.1	
13C-PCB-9	1.82e+08	1.61	y	0.83	21:48	0.844	0.840-0.848	2000	93.5											
13C-PCB-11	2.07e+08	1.61	y	0.94	25:07	0.973	0.968-0.978	2010	94.0	PS vs. IS										
13C-PCB-19	9.09e+07	1.10	y	0.53	24:08	0.935	0.929-0.939	1550	72.6											
13C-PCB-28	1.60e+08	1.04	y	0.89	28:55	1.004	0.999-1.009	2140	99.8	13C-PCB-79	1.19e+08	0.79	y	1.20	37:35	0.969	0.963-0.973	2420	113	
13C-PCB-32	1.35e+08	1.13	y	0.81	26:59	1.045	1.041-1.051	1510	70.6	13C-PCB-178	2.18e+07	0.48	y	0.94	45:23	0.924	0.920-0.930	2680	125	
13C-PCB-37	1.34e+08	1.04	y	0.83	32:46	1.138	1.131-1.143	1900	88.9											
13C-PCB-47	9.12e+07	0.79	y	0.74	31:49	0.871	0.867-0.875	2210	103											
13C-PCB-52	8.81e+07	0.81	y	0.71	31:18	0.857	0.853-0.861	2240	105											
13C-PCB-54	1.18e+08	0.80	y	0.85	27:49	0.761	0.758-0.766	2490	116											
13C-PCB-70	1.06e+08	0.80	y	0.94	35:18	0.966	0.961-0.971	2020	94.2											
13C-PCB-77	9.19e+07	0.80	y	0.89	39:24	1.078	1.073-1.083	1850	86.5											
13C-PCB-80	1.09e+08	0.81	y	0.96	35:42	0.977	0.972-0.982	2040	95.3											
13C-PCB-81	8.78e+07	0.80	y	0.84	38:48	1.062	1.057-1.067	1890	88.1											
13C-PCB-95	3.46e+07	1.62	y	0.74	35:35	0.913	0.908-0.918	2210	103	RS										
13C-PCB-97	2.96e+07	1.70	y	0.69	38:34	0.989	0.984-0.994	2040	95.3											
13C-PCB-101	3.46e+07	1.71	y	0.79	37:16	0.956	0.951-0.961	2090	97.6											
13C-PCB-104	5.29e+07	1.66	y	1.00	32:29	0.833	0.829-0.837	2520	118	13C-PCB-15	2.35e+08	1.62	y	1.00	25:49			2140		
13C-PCB-105	9.12e+07	1.61	y	1.24	42:49	0.929	0.924-0.934	3430	(160) 142 *	13C-PCB-31	1.81e+08	1.04	y	1.00	28:48			2140		
13C-PCB-114	9.16e+07	1.67	y	1.21	41:57	0.910	0.905-0.915	3530	(165) 144 ↓	13C-PCB-60	1.19e+08	0.80	y	1.00	36:32			2140		
13C-PCB-118	3.60e+07	1.63	y	0.98	41:18	1.059	1.054-1.064	1730	80.9	13C-PCB-111	4.51e+07	1.69	y	1.00	38:59			2140		
13C-PCB-123	3.45e+07	1.64	y	0.95	41:07	1.055	1.049-1.059	1720	80.4	13C-PCB-128	4.61e+07	1.33	y	1.00	46:06			2140		
13C-PCB-126	7.58e+07	1.63	y	1.16	45:03	0.977	0.972-0.982	3030	(142) 132 *	13C-PCB-205	5.32e+07	0.92	y	1.00	53:54			2140		
13C-PCB-127	9.95e+07	1.63	y	1.34	43:09	0.936	0.931-0.941	3450	(161) 138 ↓											
13C-PCB-138	4.56e+07	1.32	y	1.04	44:33	0.966	0.961-0.971	2030	94.9											
13C-PCB-141	4.83e+07	1.28	y	1.07	43:42	0.948	0.943-0.953	2100	97.9											
13C-PCB-153	6.03e+07	1.30	y	1.11	42:58	0.932	0.927-0.937	2520	118											
13C-PCB-155	2.31e+07	1.29	y	0.83	36:48	0.944	0.939-0.949	1320	61.7											
13C-PCB-156	5.33e+07	1.30	y	1.24	47:49	1.037	1.032-1.042	1990	92.9											
13C-PCB-157	5.47e+07	1.30	y	1.31	48:05	1.043	1.037-1.047	1940	90.5											
13C-PCB-159	5.31e+07	1.30	y	1.20	45:50	0.994	0.989-0.999	2060	96.1											
13C-PCB-167	5.75e+07	1.35	y	1.32	46:31	1.009	1.004-1.014	2030	94.6											
13C-PCB-169	4.76e+07	1.28	y	1.22	50:14	1.090	1.082-1.092	1820	85.0											
13C-PCB-170	1.49e+07	0.48	y	0.54	50:35	1.097	1.089-1.101	1300	60.5											
13C-PCB-180	1.86e+07	0.48	y	0.67	49:06	1.065	1.059-1.069	1280	60.0											
13C-PCB-188	3.54e+07	0.47	y	0.94	42:35	0.924	0.919-0.929	1760	82.2											
13C-PCB-189	1.97e+07	0.49	y	0.72	52:05	1.130	1.120-1.132	1280	59.7											
13C-PCB-194	4.05e+07	0.94	y	0.81	53:37	0.995	0.990-1.000	2010	94.0											
13C-PCB-202	1.48e+07	0.97	y	0.83	48:00	1.041	1.036-1.046	829	38.7											
13C-PCB-206	2.88e+07	0.79	y	0.66	55:17	1.026	1.021-1.031	1760	82.2											
13C-PCB-208	4.32e+07	0.78	y	1.12	52:52	0.981	0.976-0.986	1550	72.3											
13C-PCB-209	2.45e+07	1.21	y	0.61	56:39	1.051	1.044-1.054	1610	75.2											

Analyst: Dms

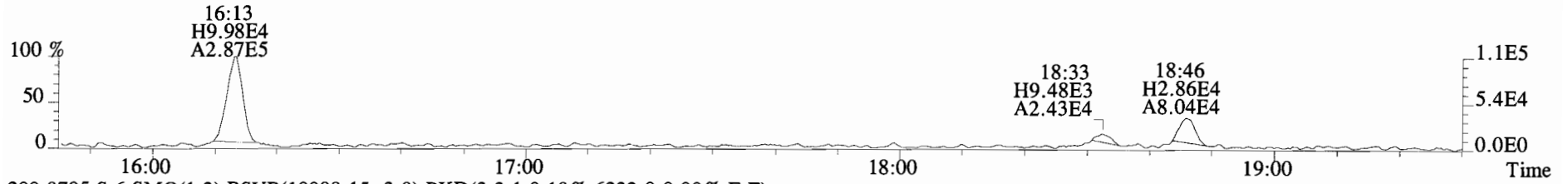
x = see 1'S  
 Dilution

Date: 9/16/14

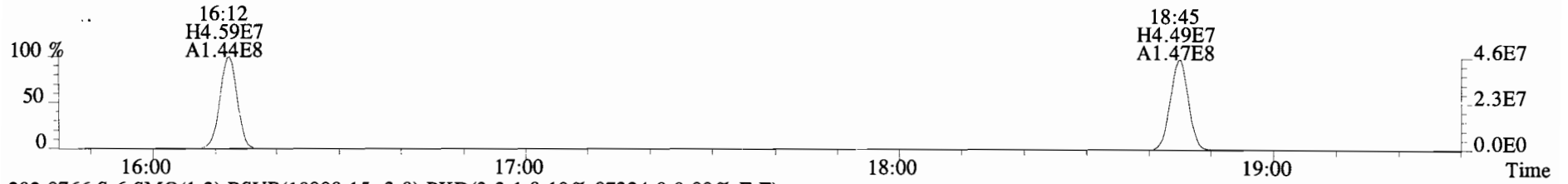
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3516.0,0.00%,F,F)



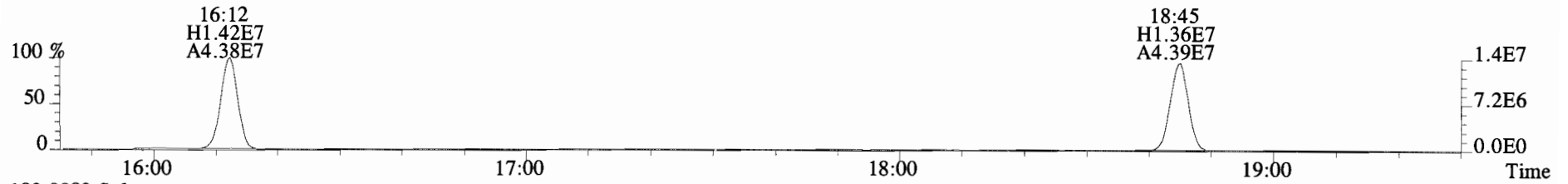
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4560.0,0.00%,F,F)



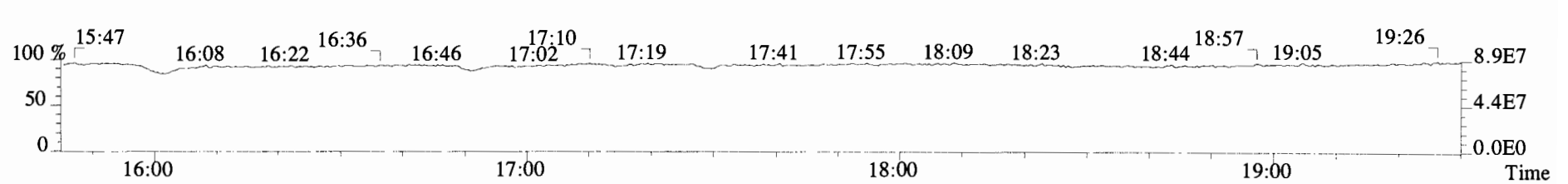
200.0795 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6232.0,0.00%,F,F)



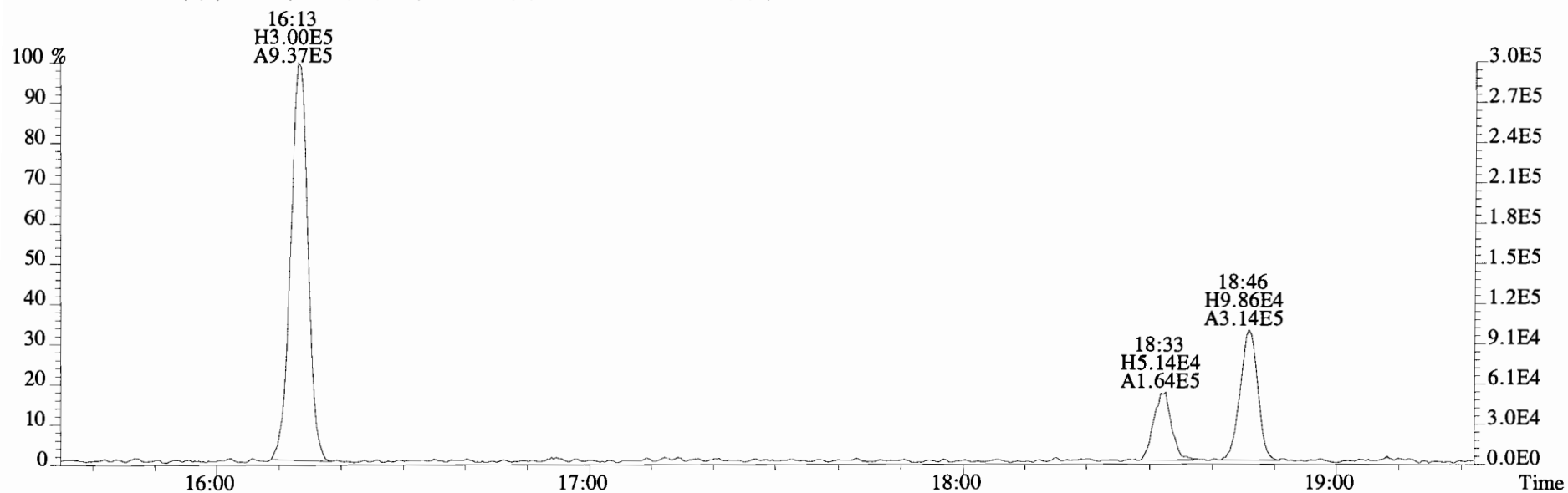
202.0766 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,97324.0,0.00%,F,F)



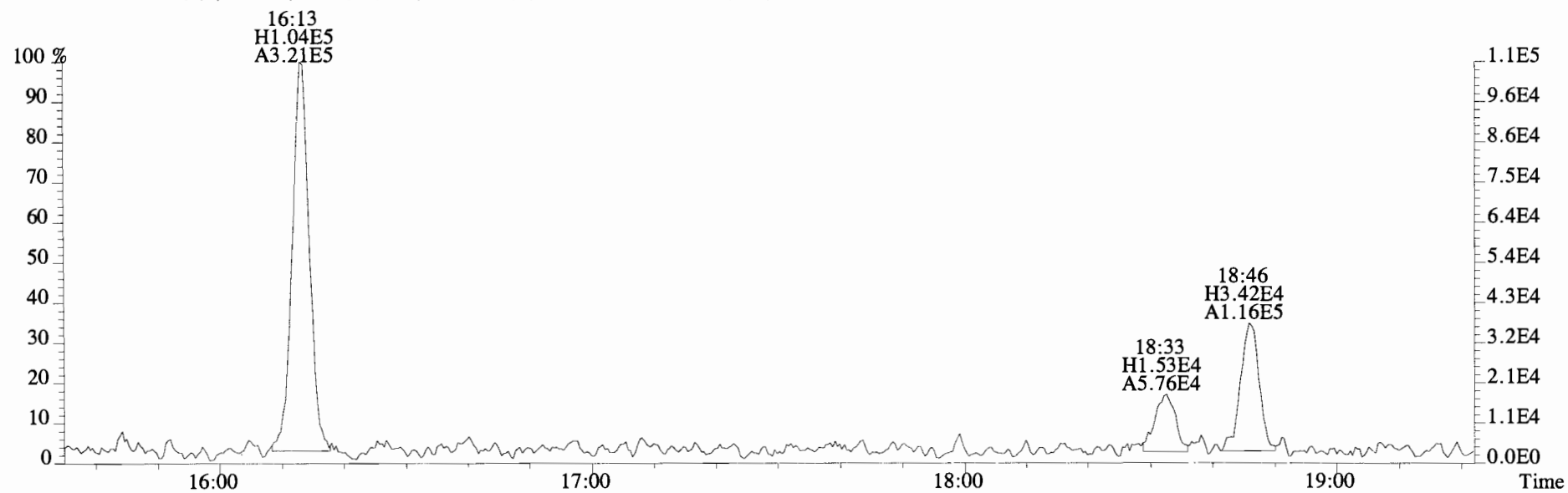
180.9880 S:6



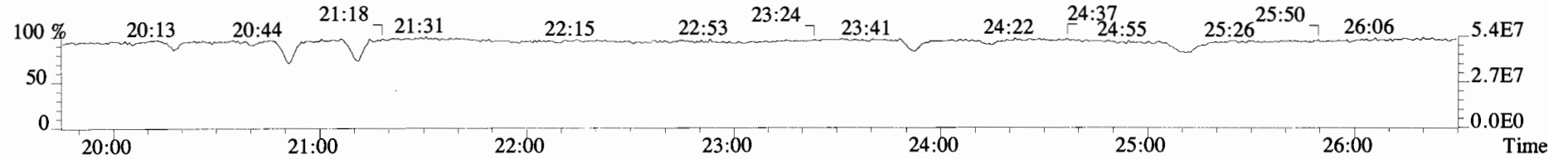
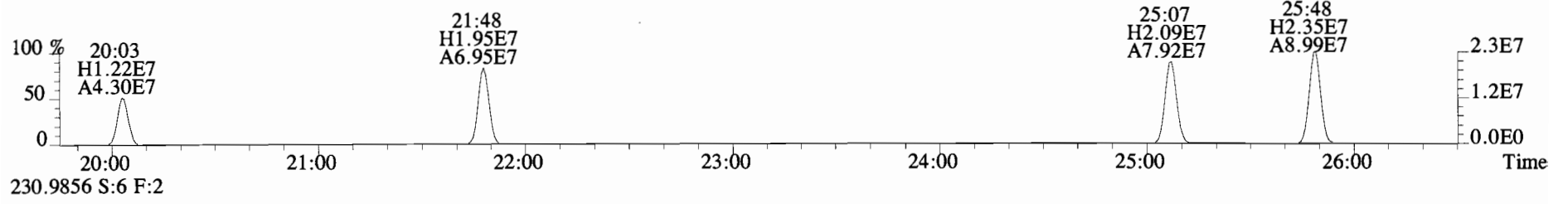
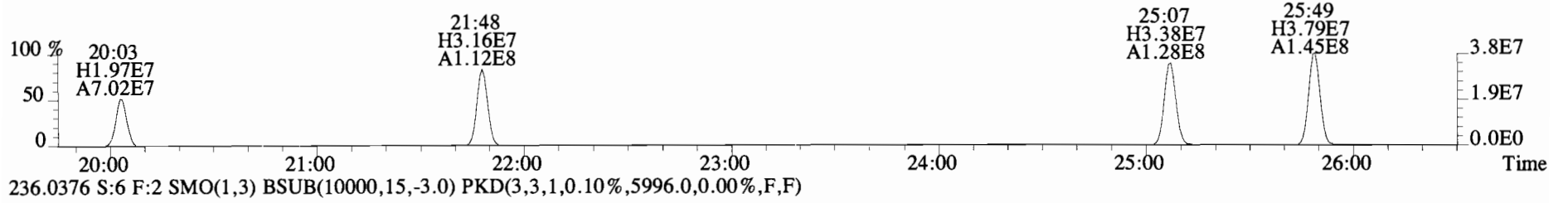
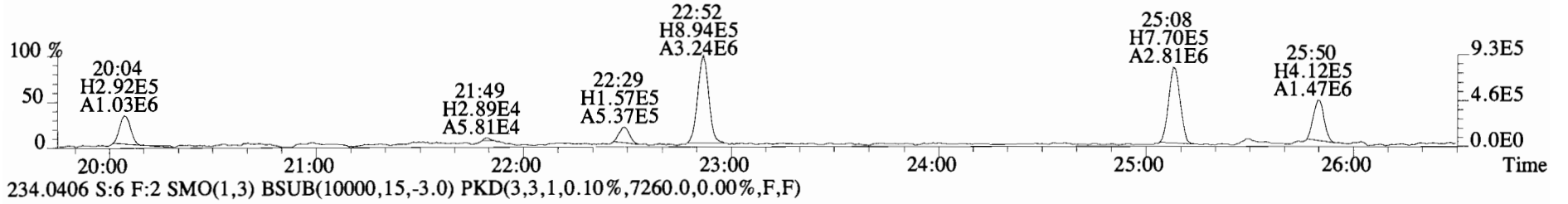
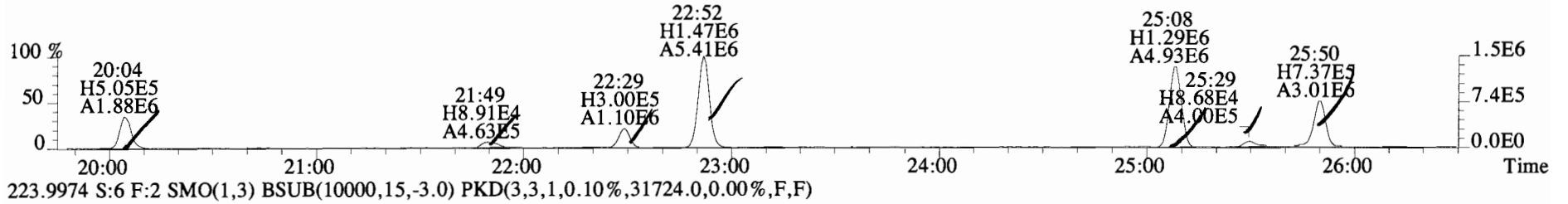
File:140910E2 #1-729 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3516.0,0.00%,F,F)



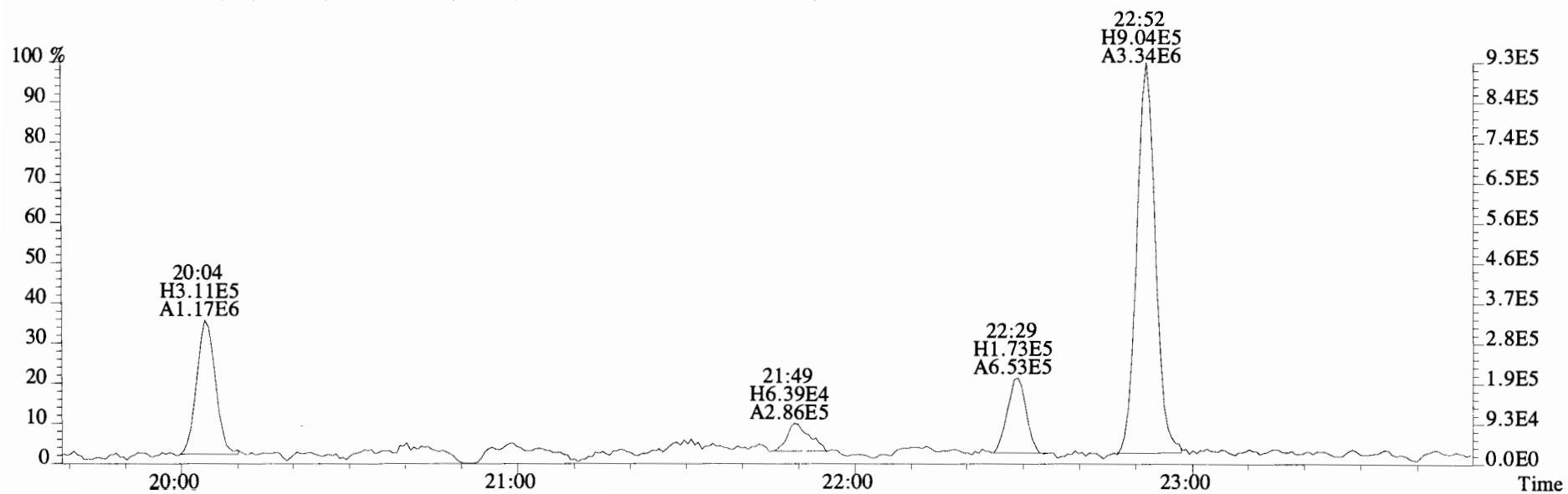
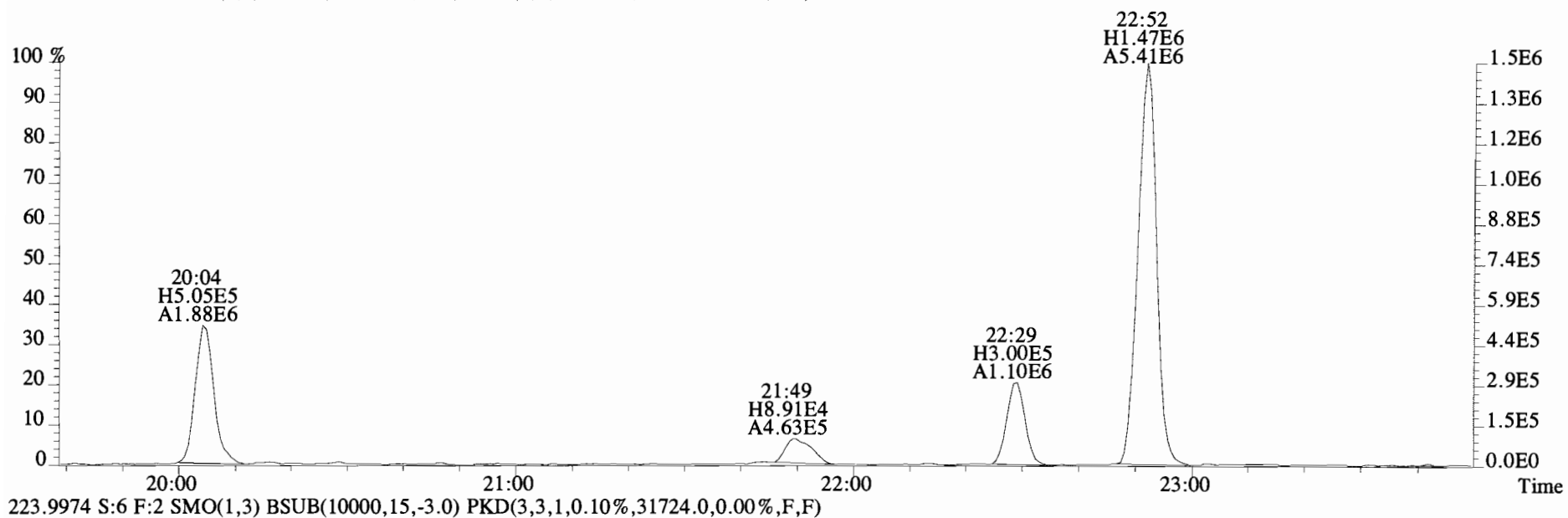
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4560.0,0.00%,F,F)



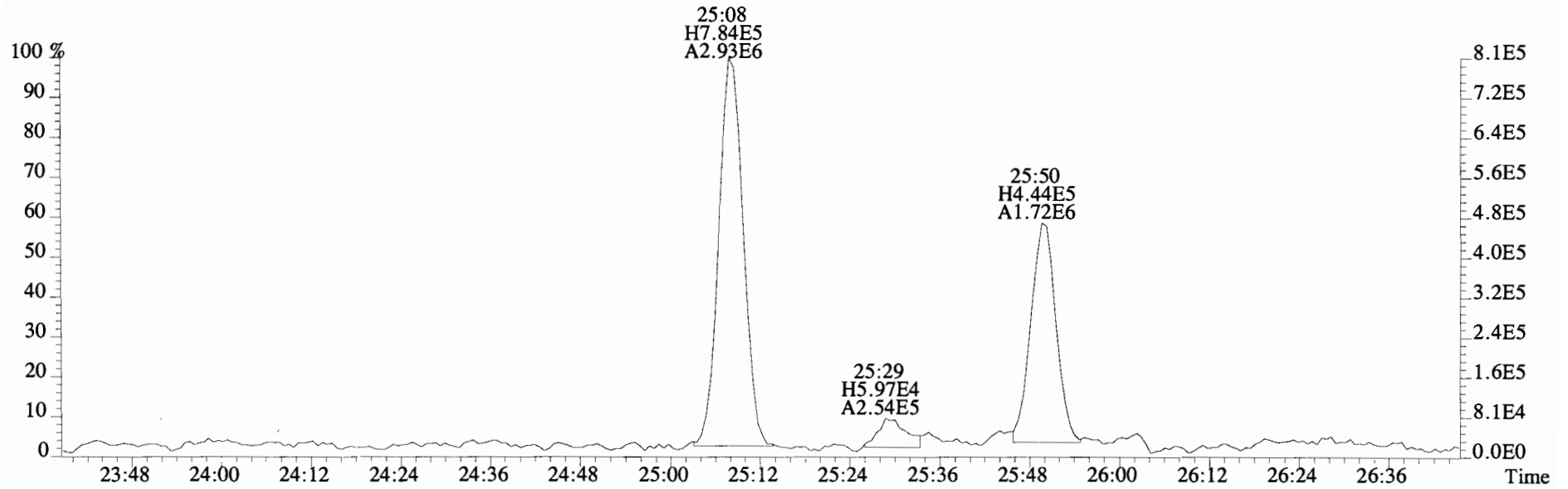
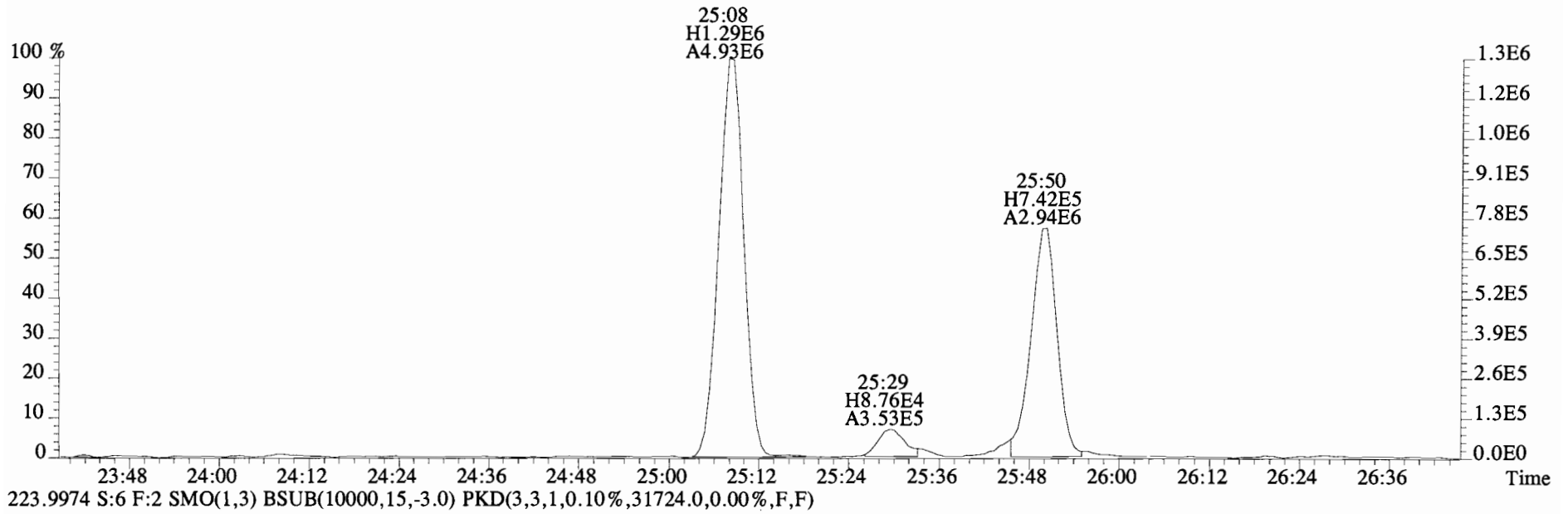
File:140910E2 #1-757 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5932.0,0.00%,F,F)



File:140910E2 #1-757 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5932.0,0.00%,F,F)

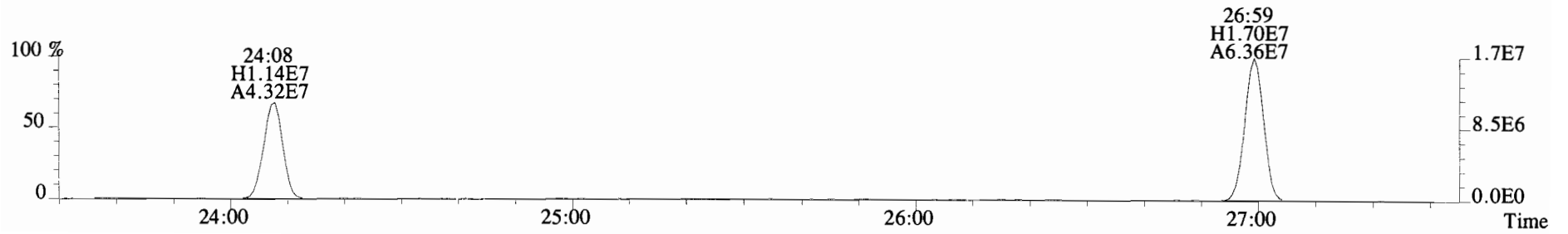
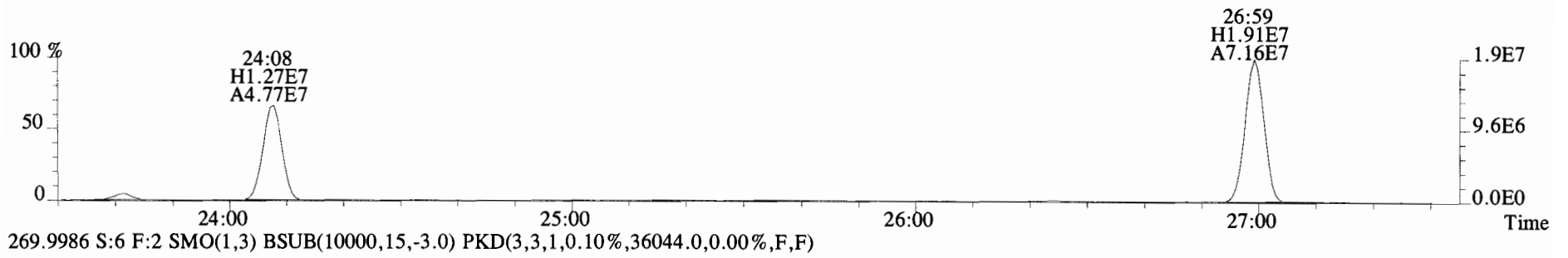
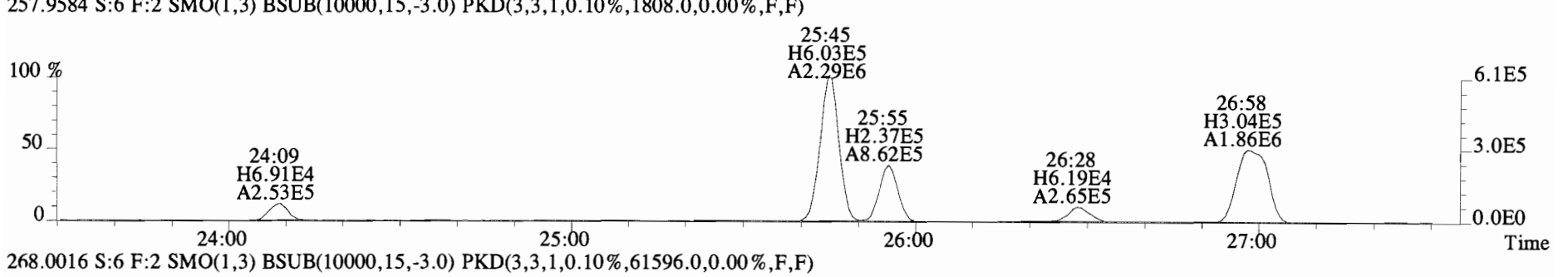
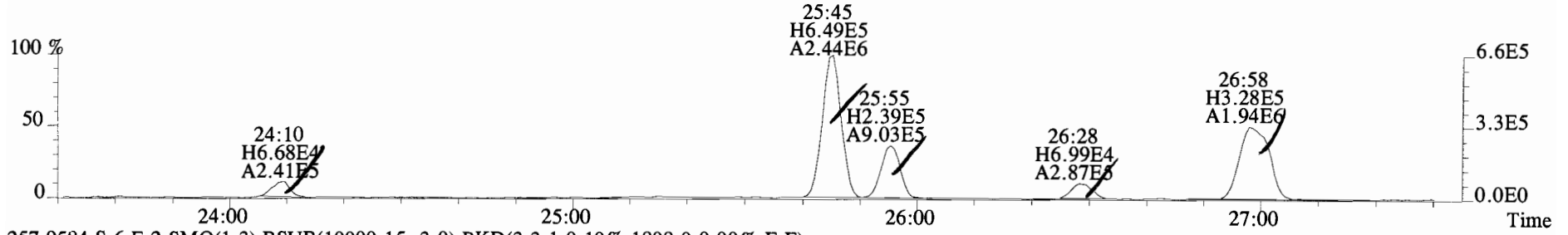


File:140910E2 #1-757 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5932.0,0.00%,F,F)

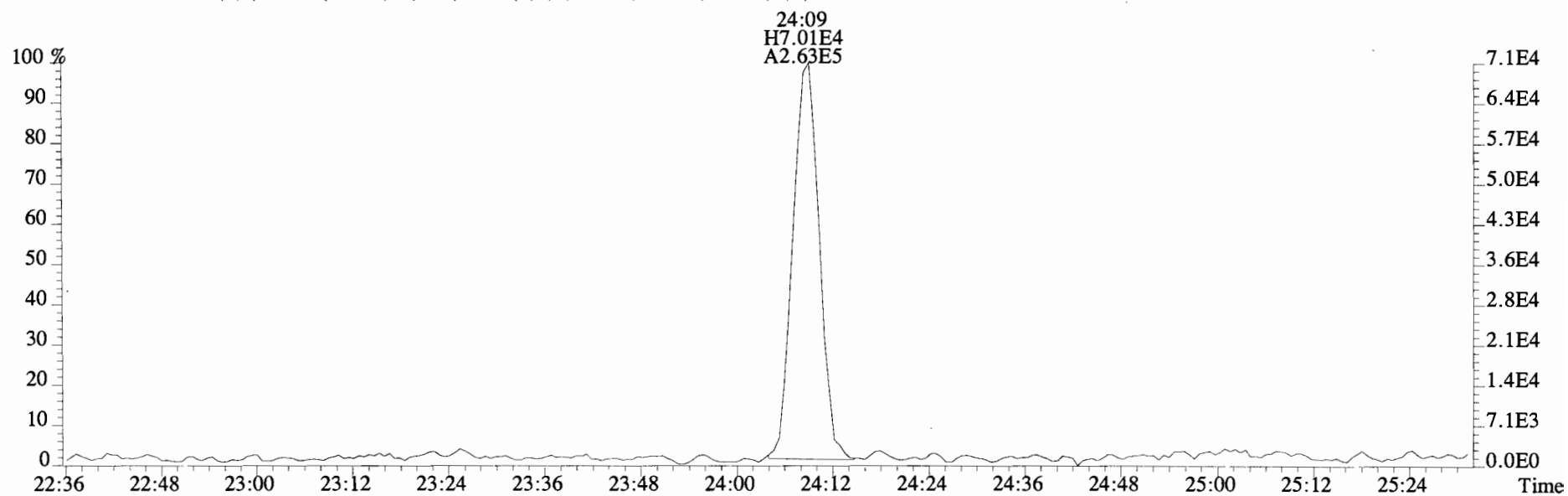
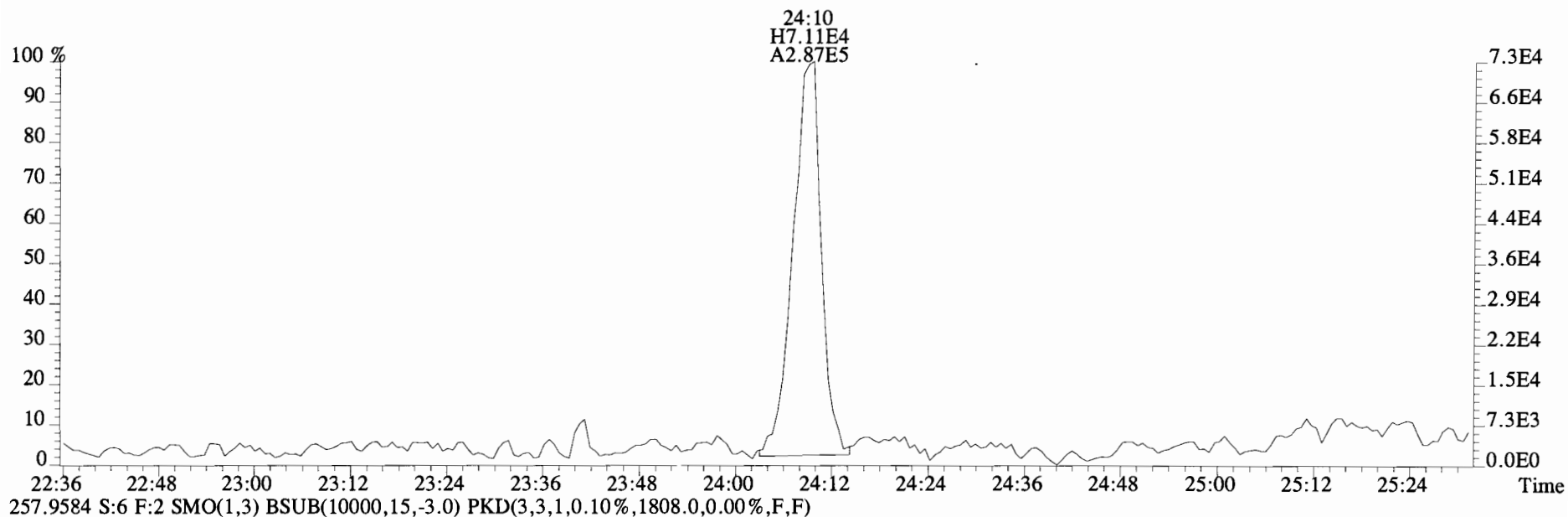




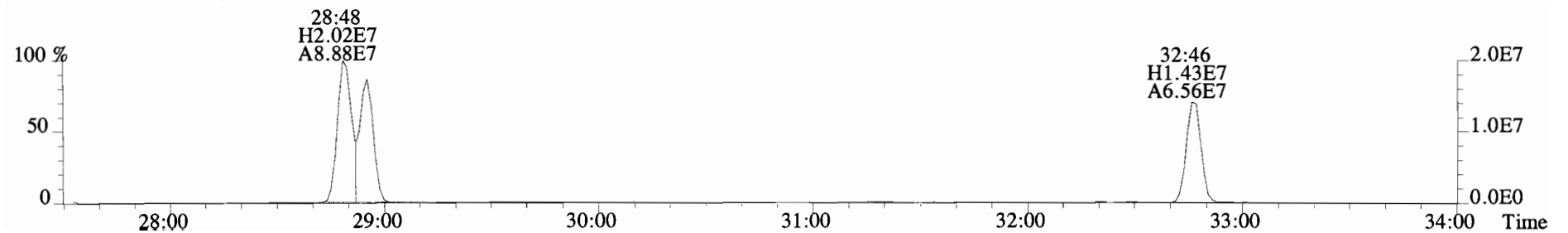
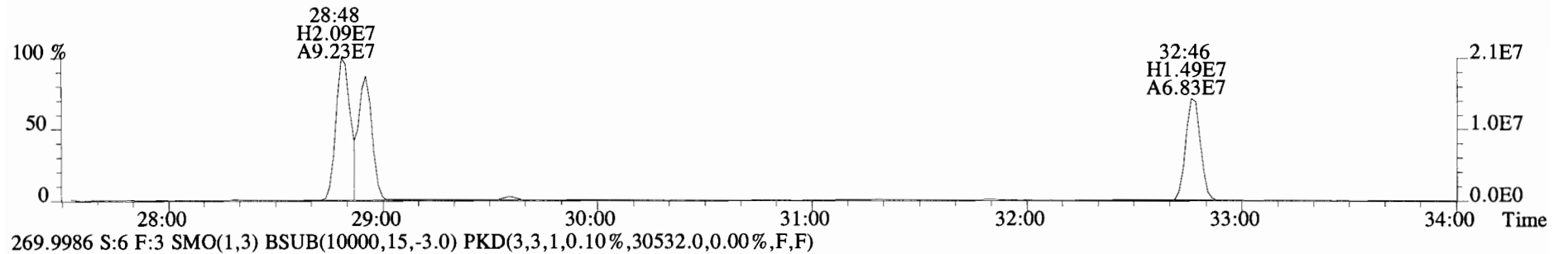
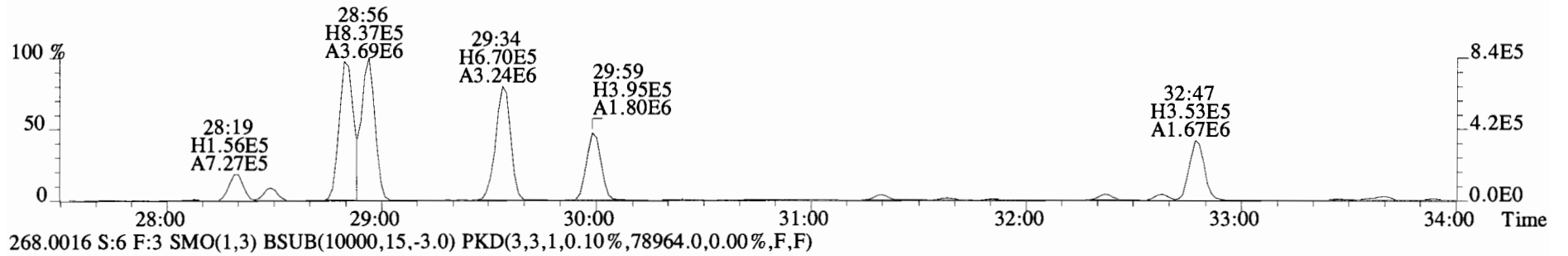
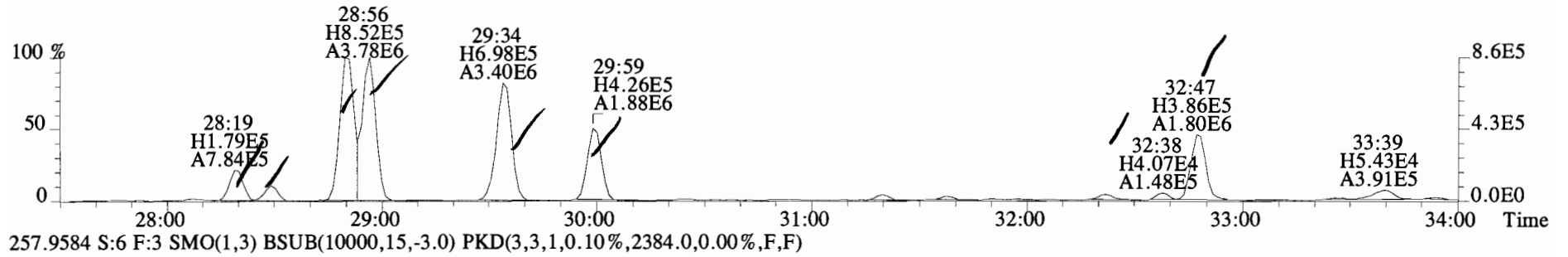
File:140910E2 #1-757 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4568.0,0.00%,F,F)



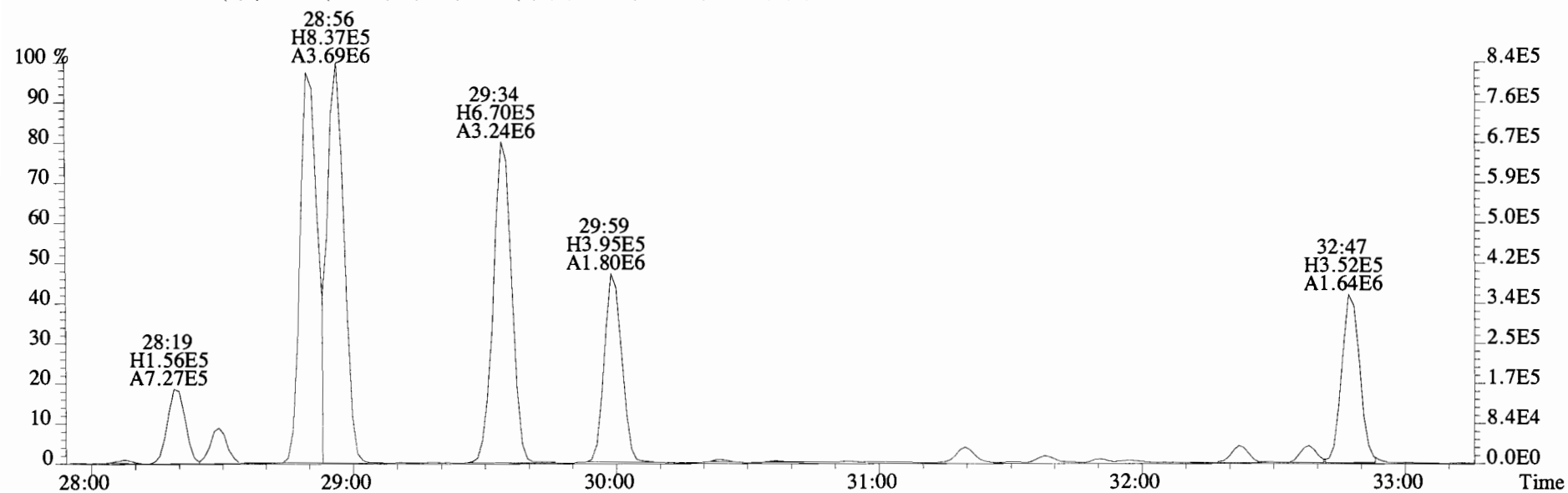
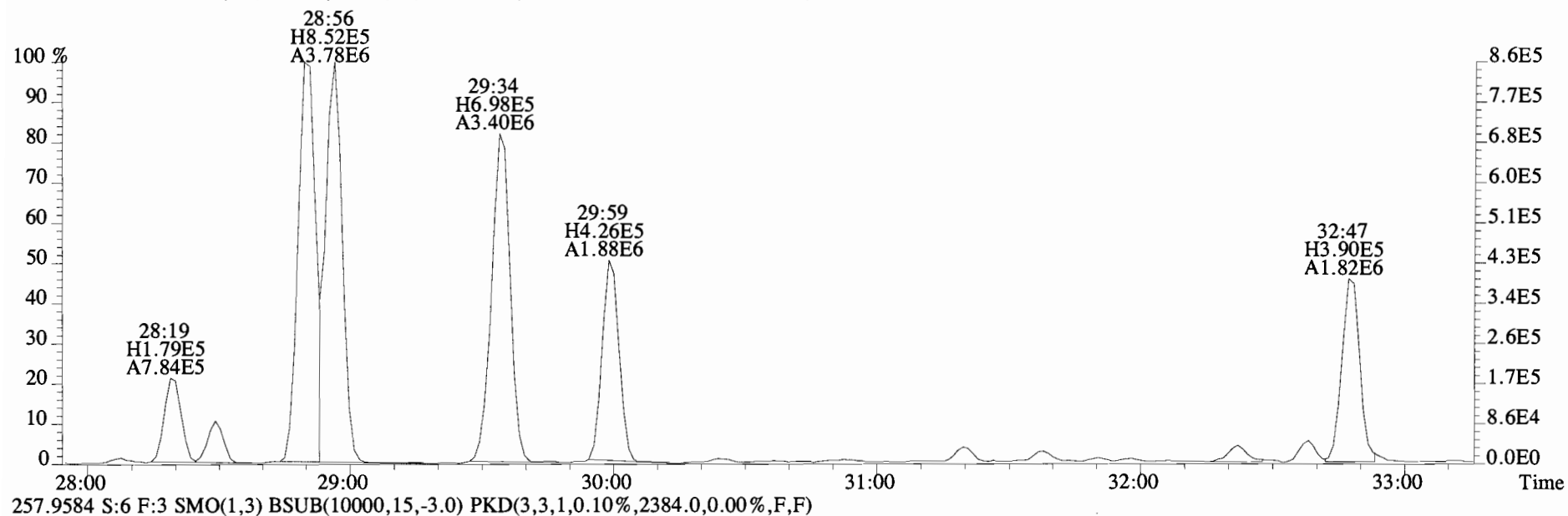
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4568.0,0.00%,F,F)



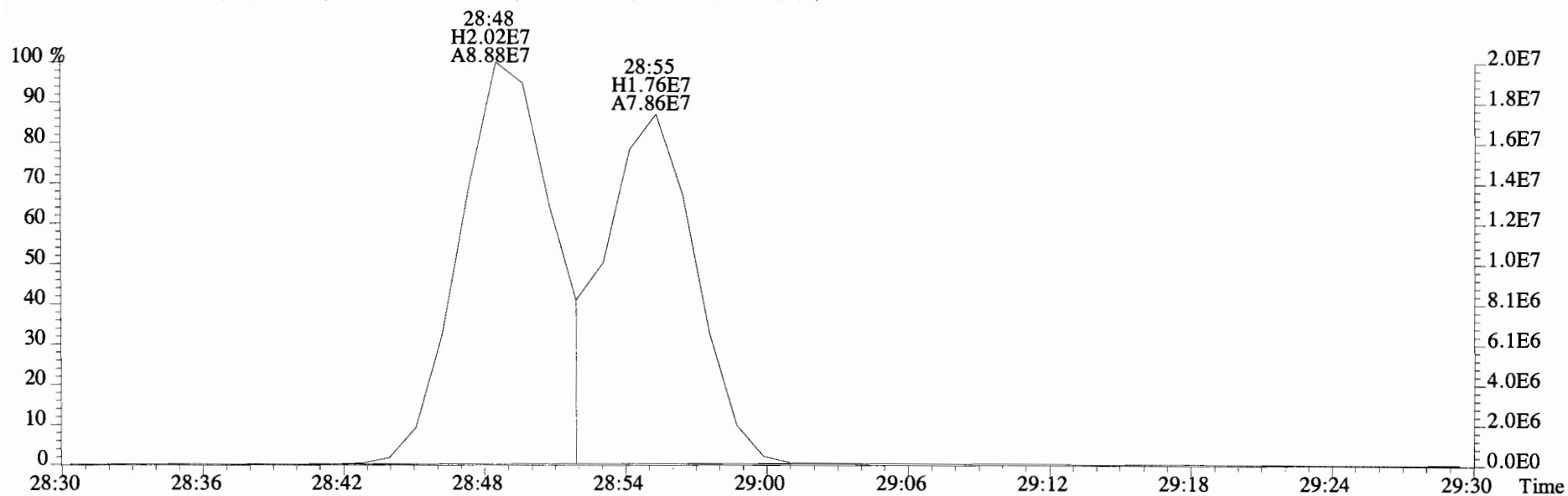
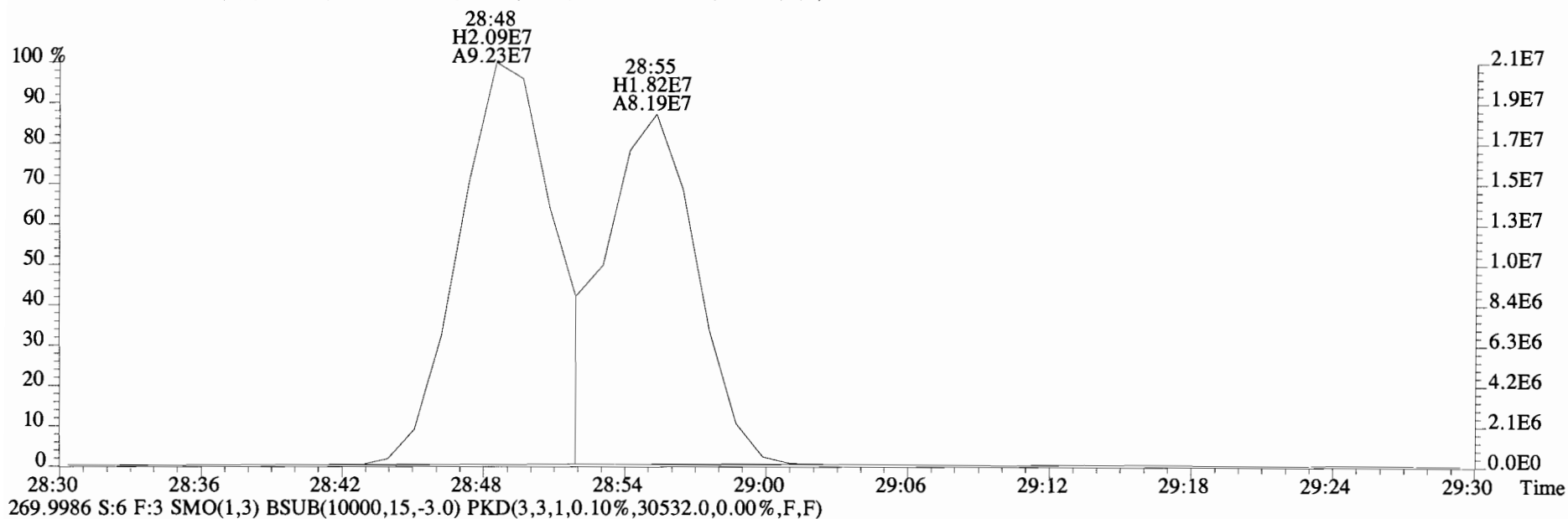
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6208.0,0.00%,F,F)



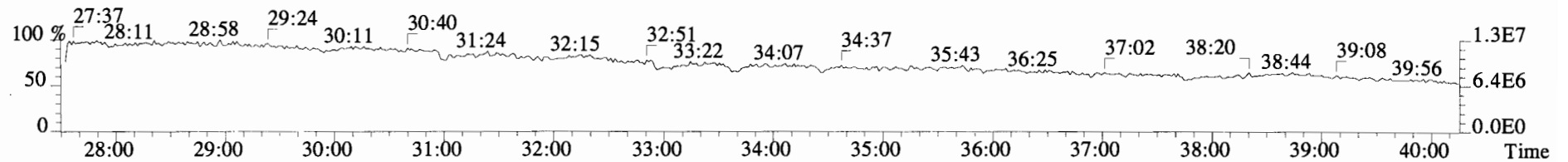
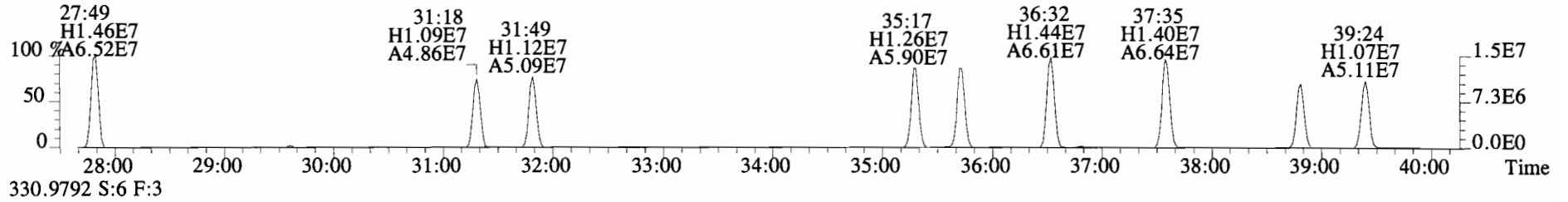
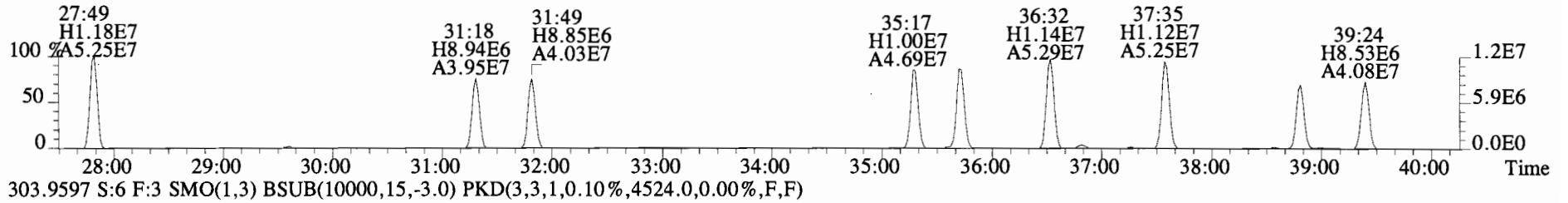
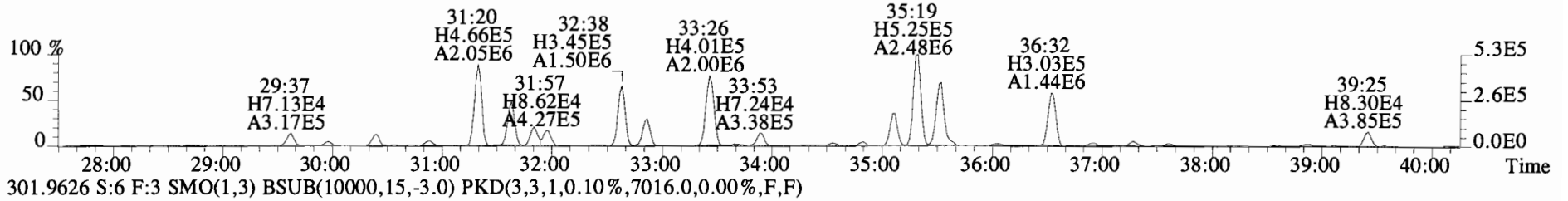
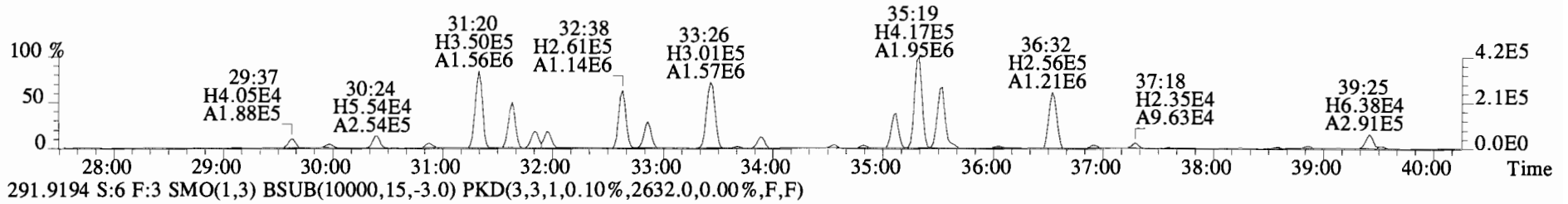
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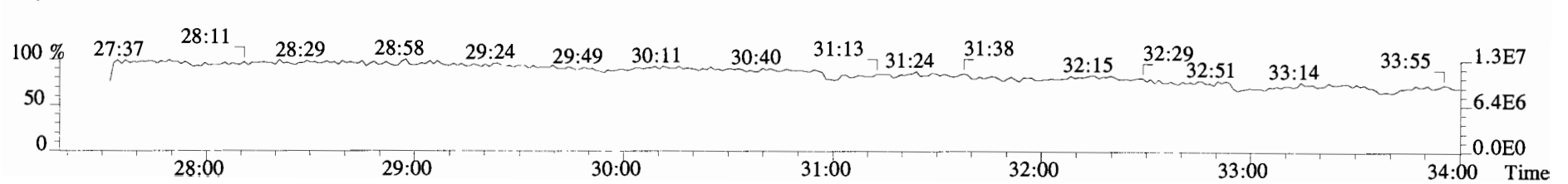
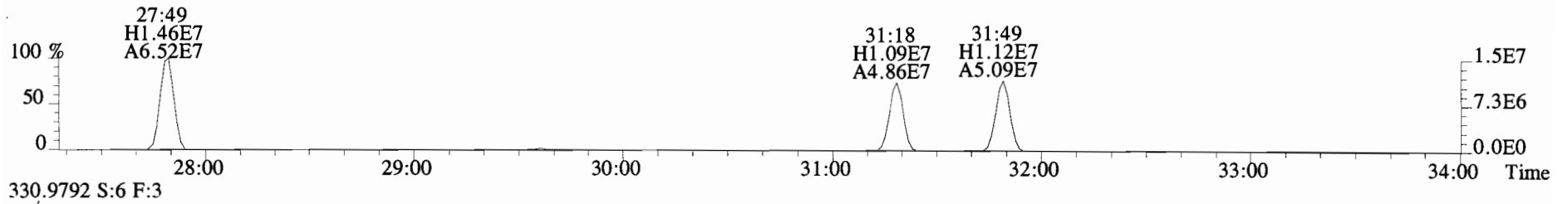
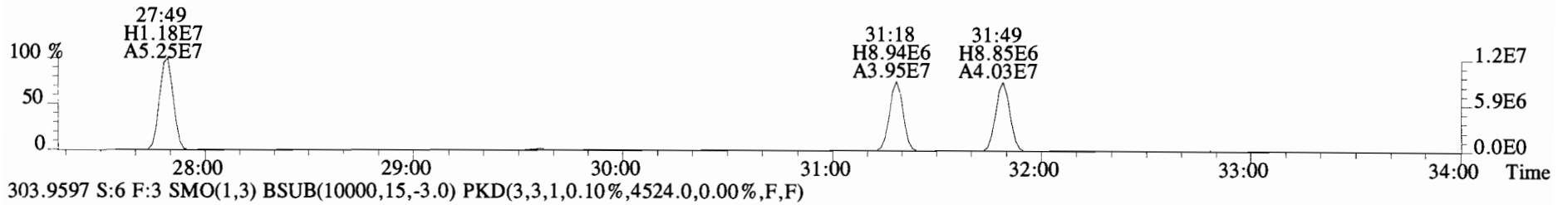
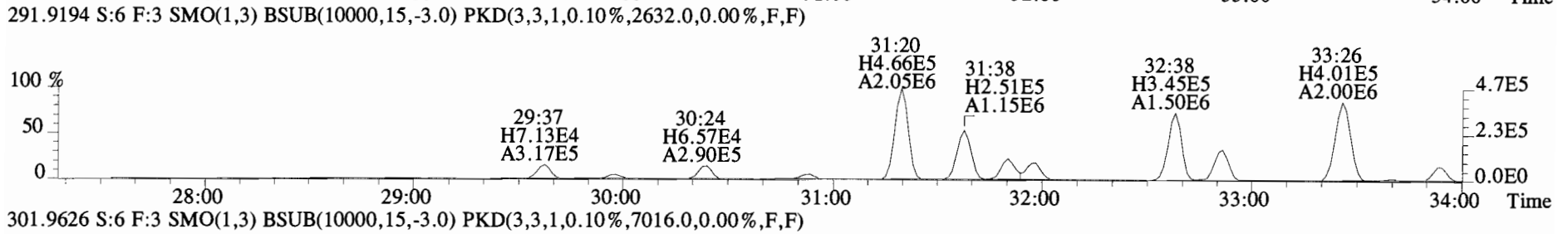
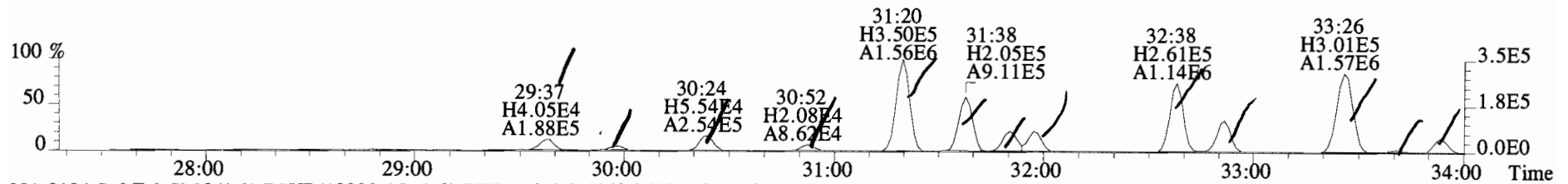
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,78964.0,0.00%,F,F)



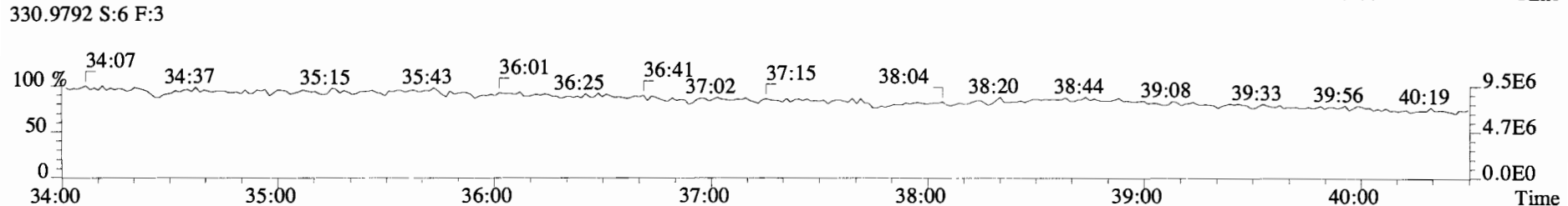
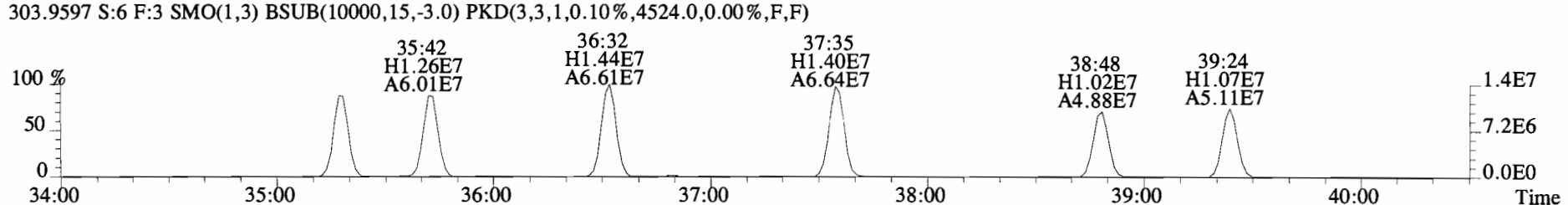
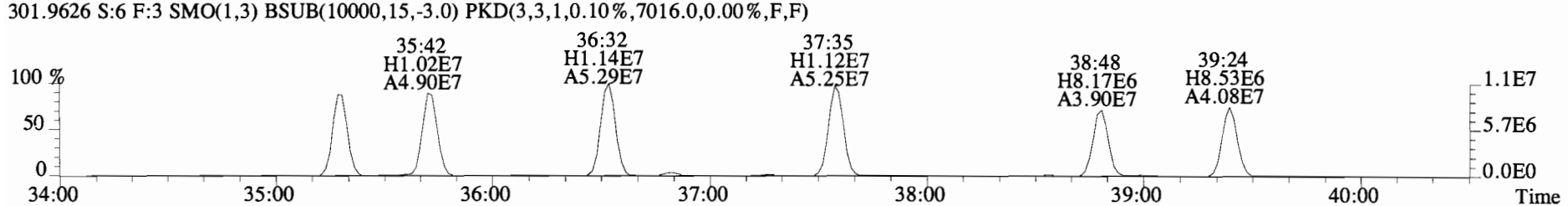
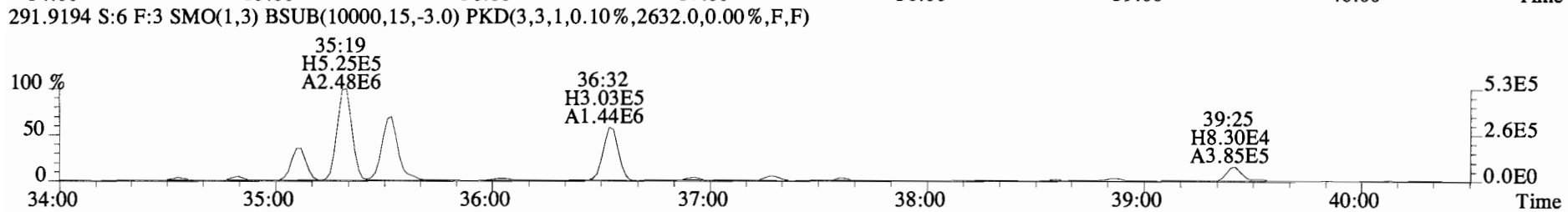
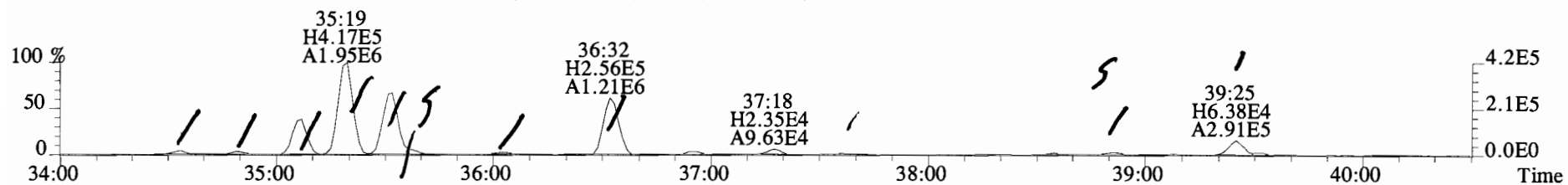
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)



File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)

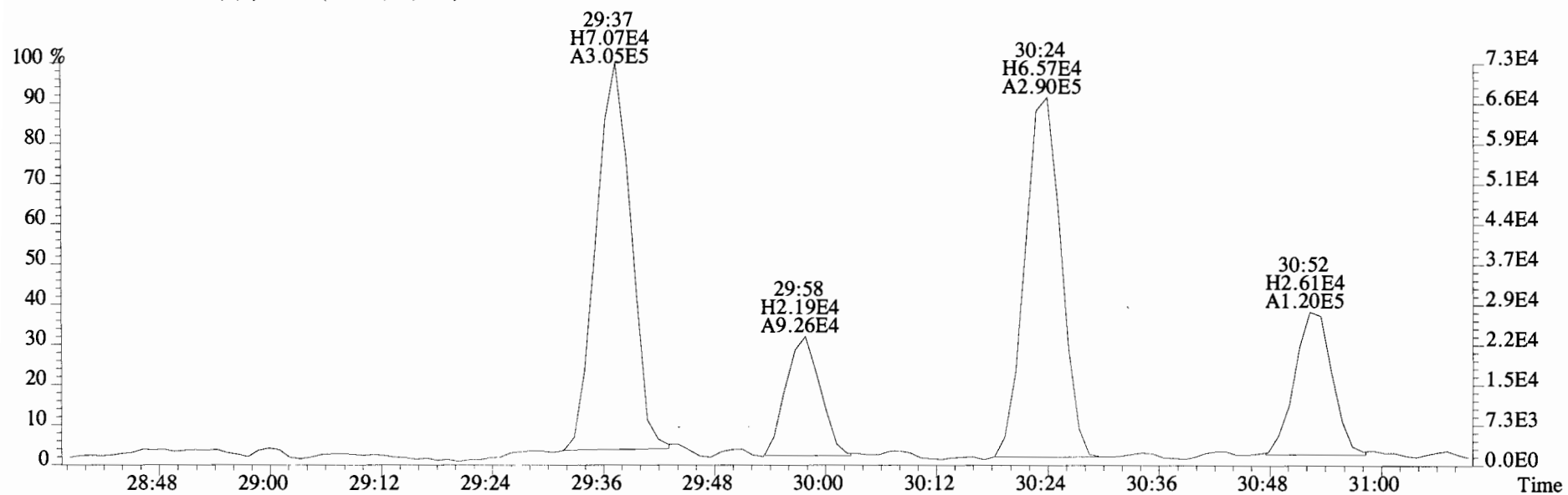
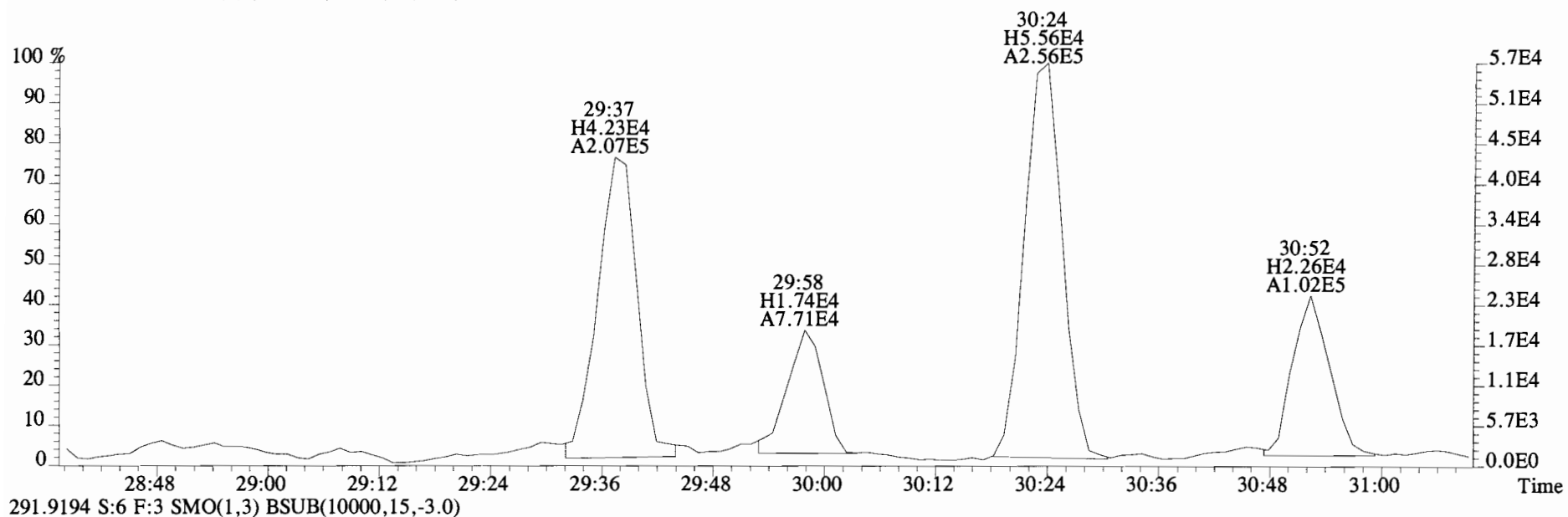


File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
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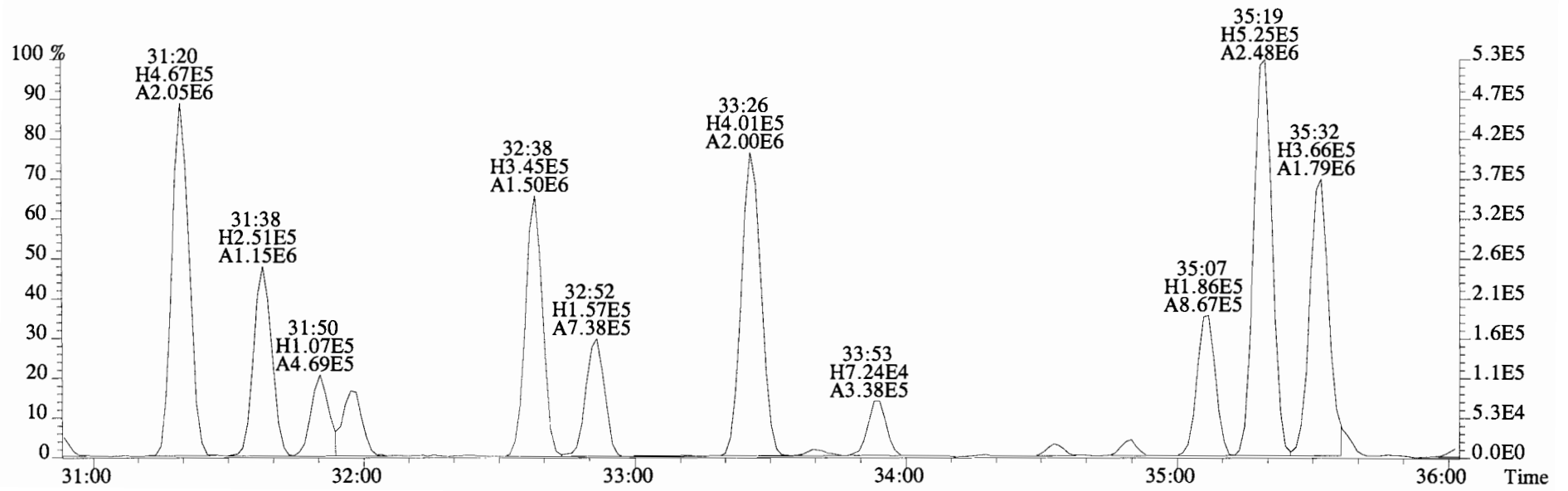
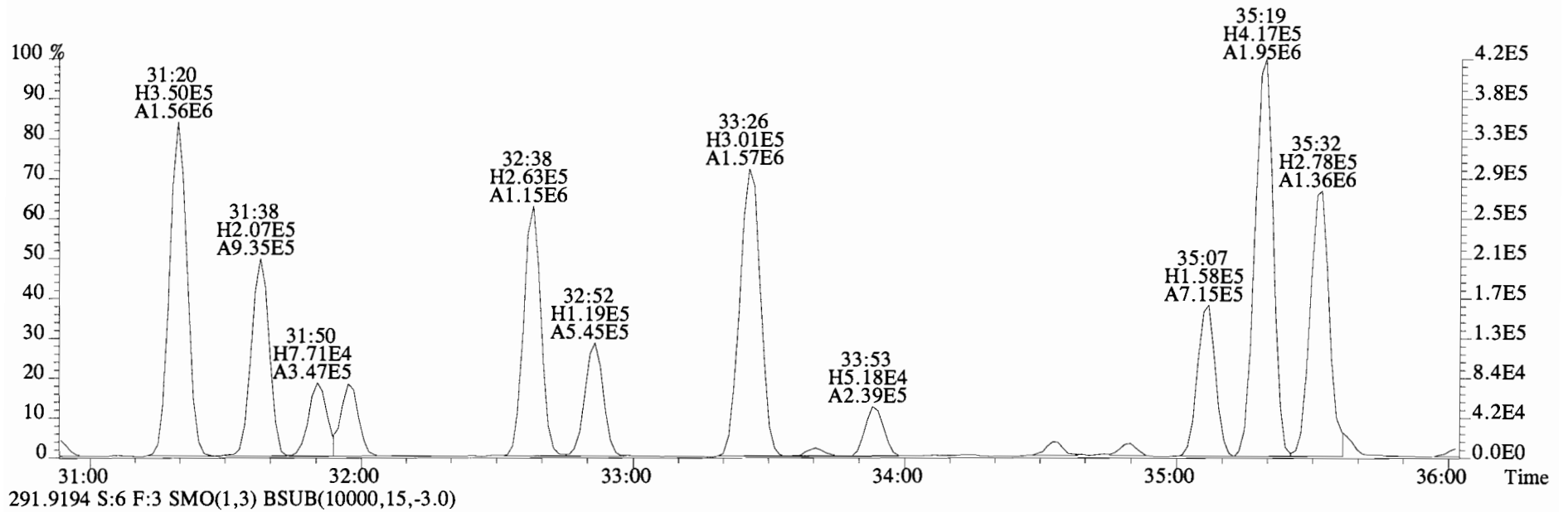




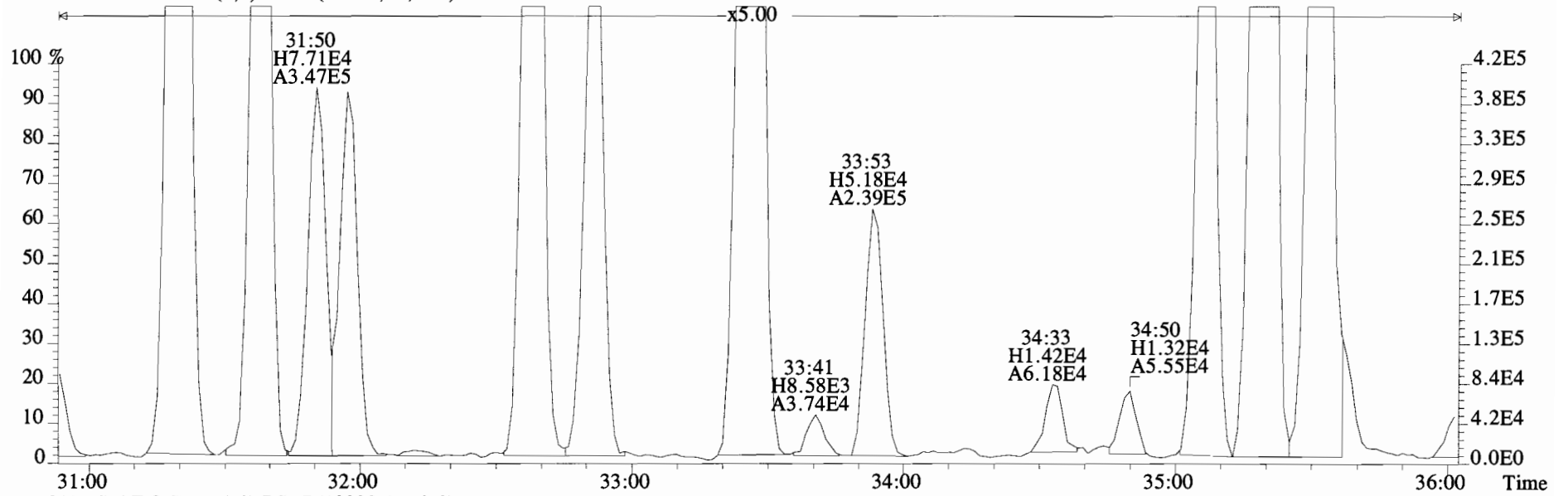
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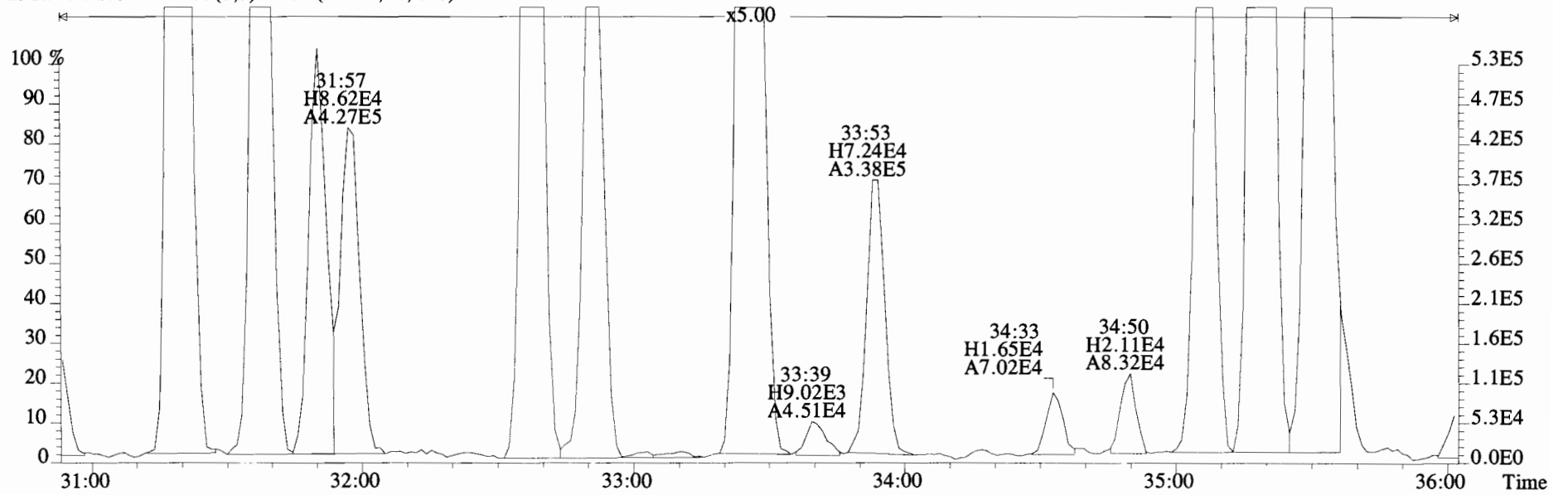
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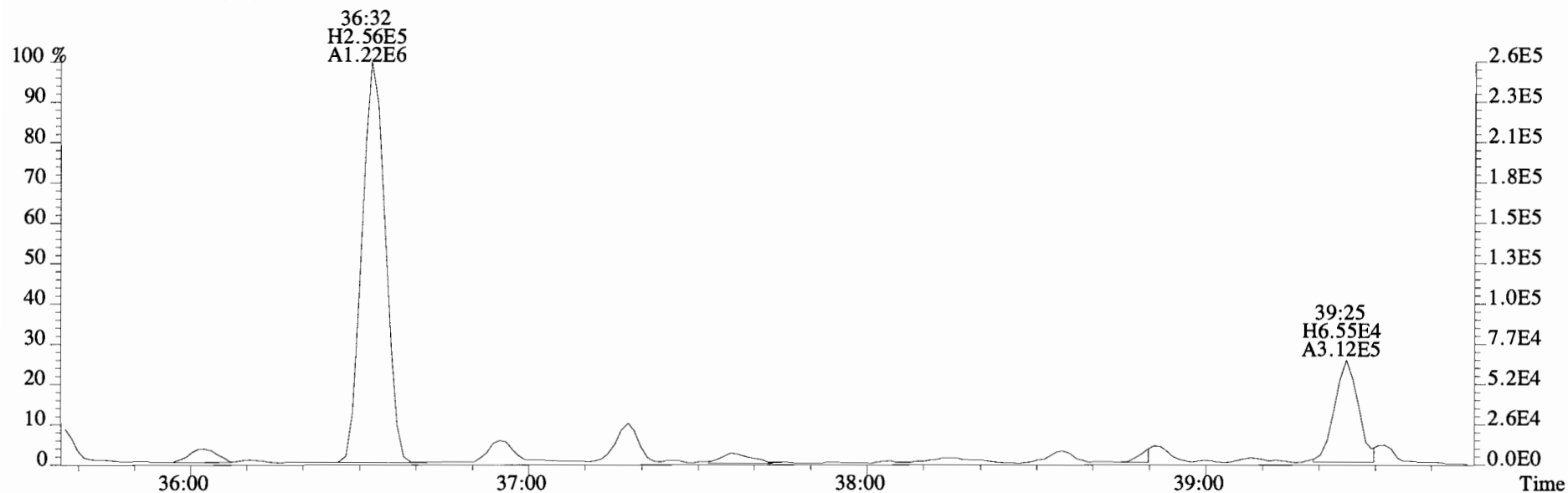
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



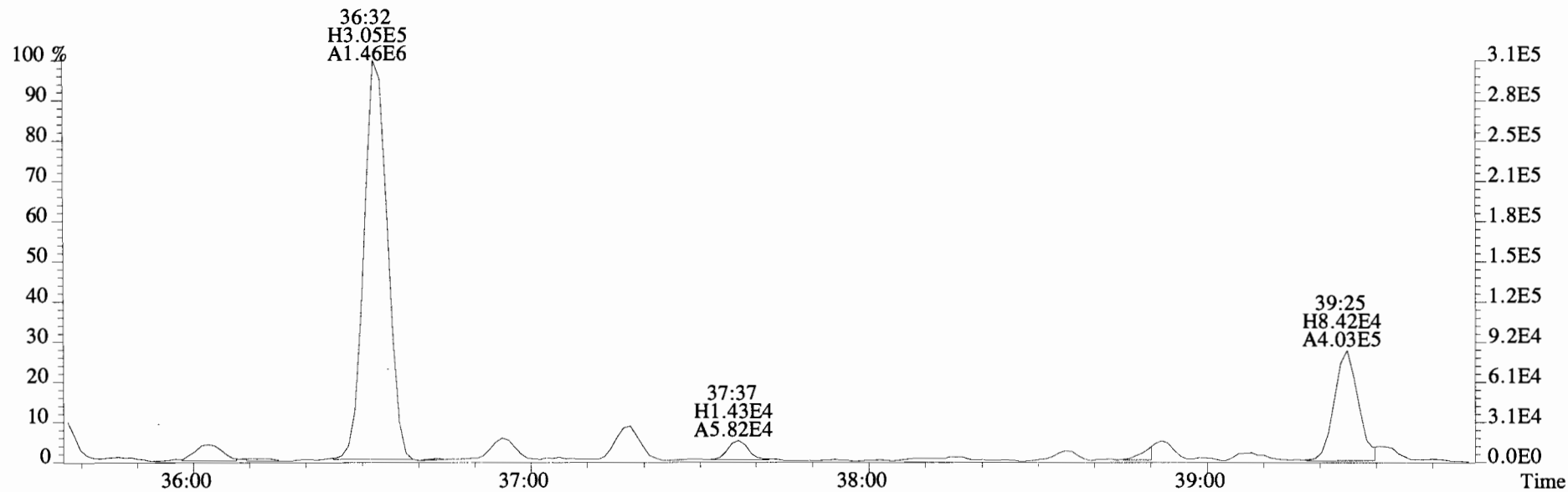
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



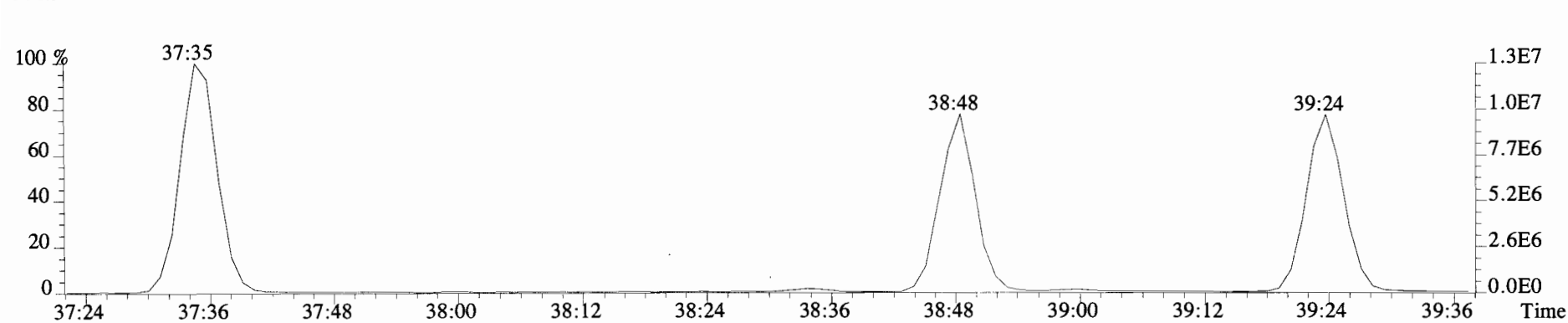
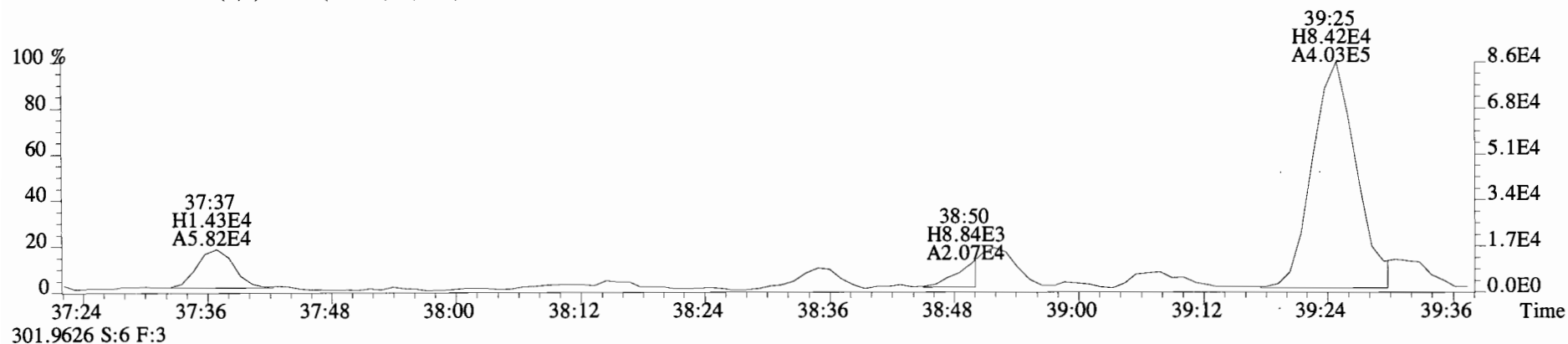
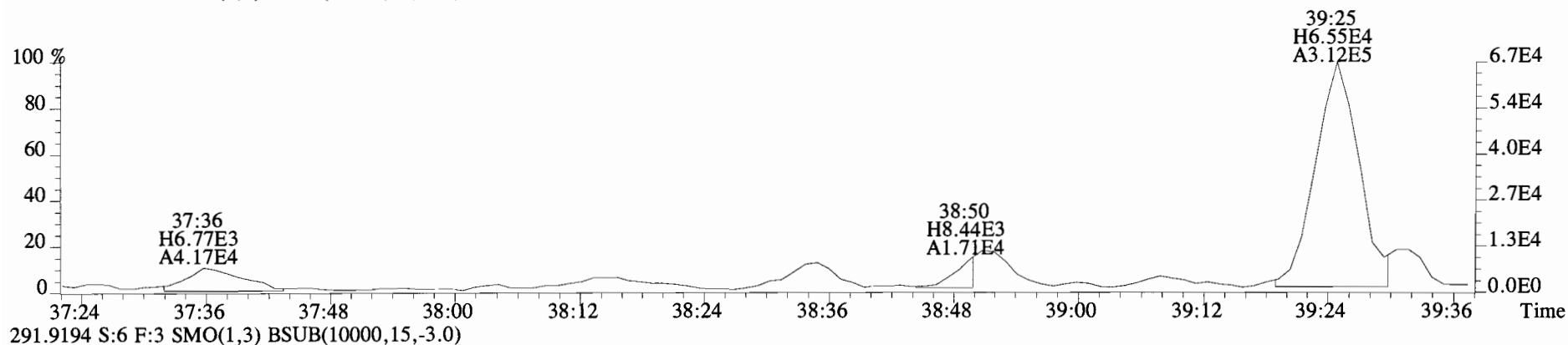
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289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



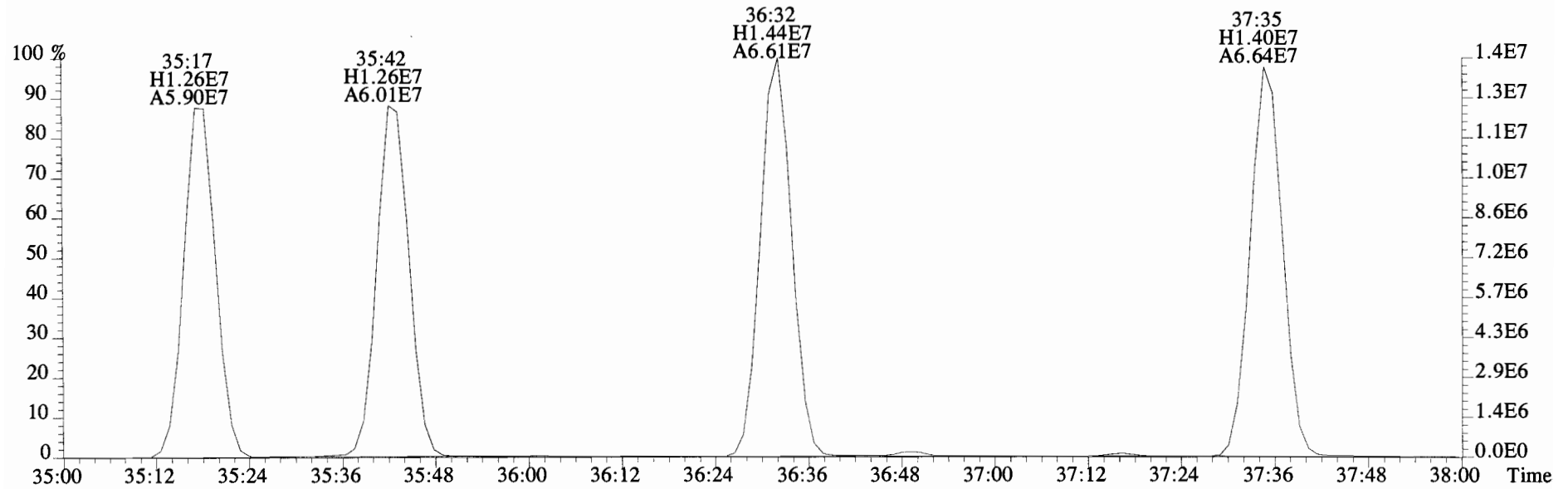
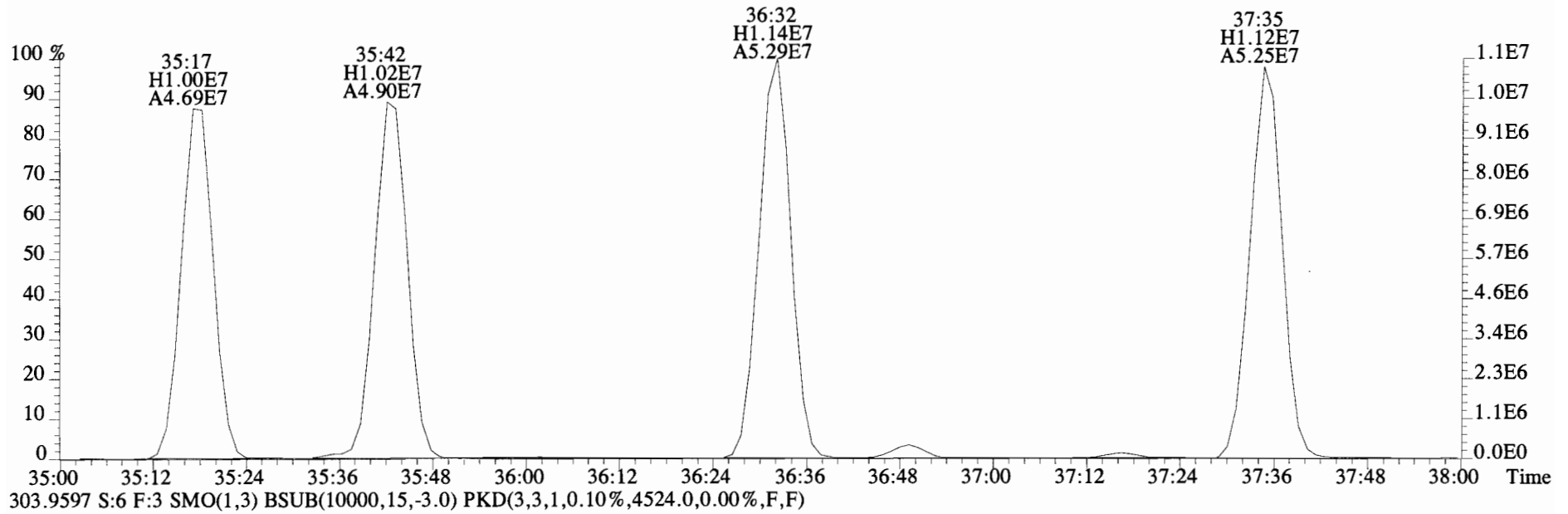
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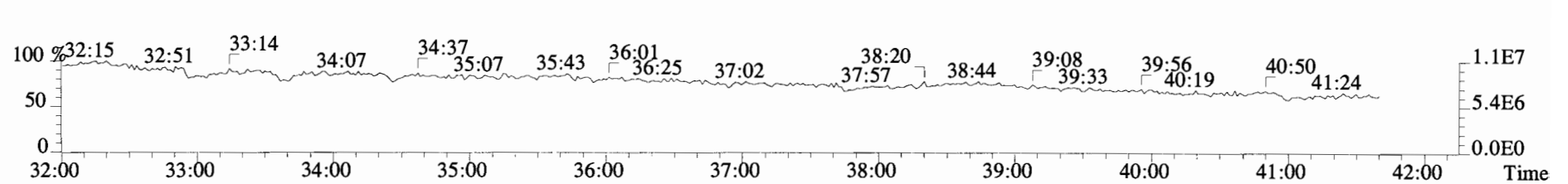
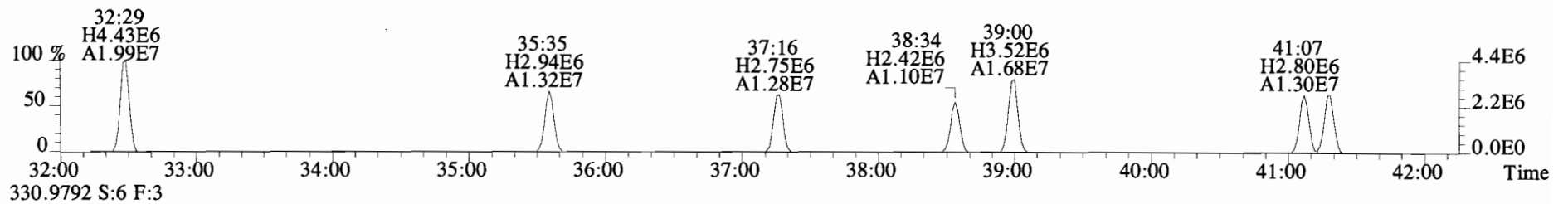
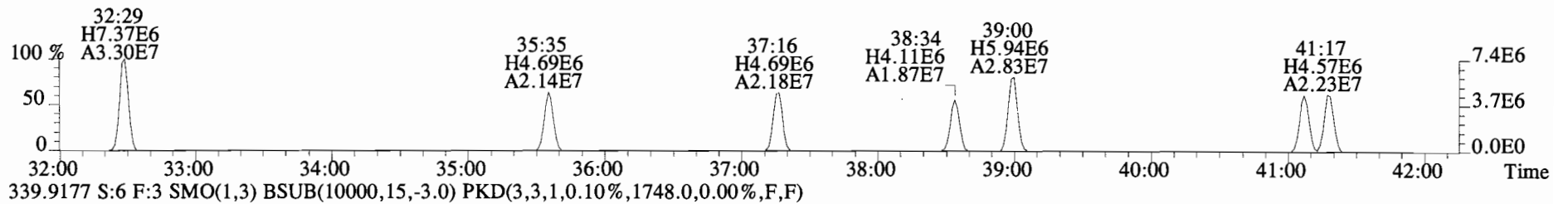
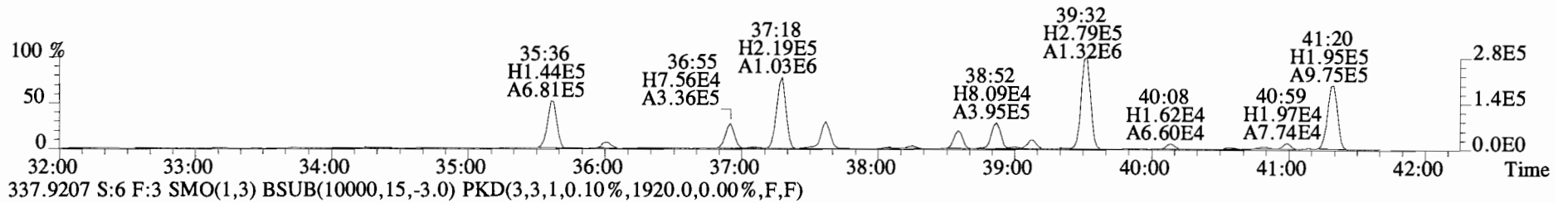
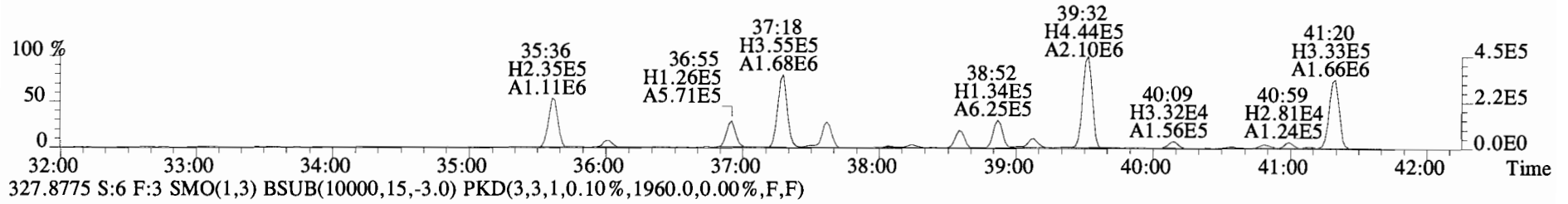
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
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289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



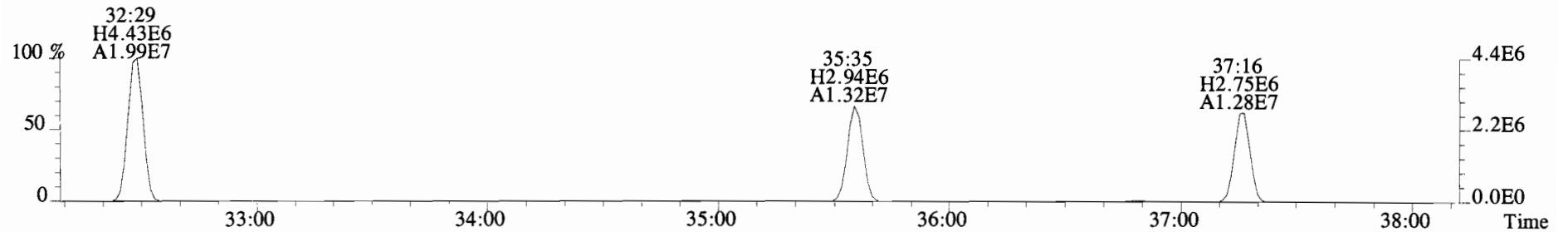
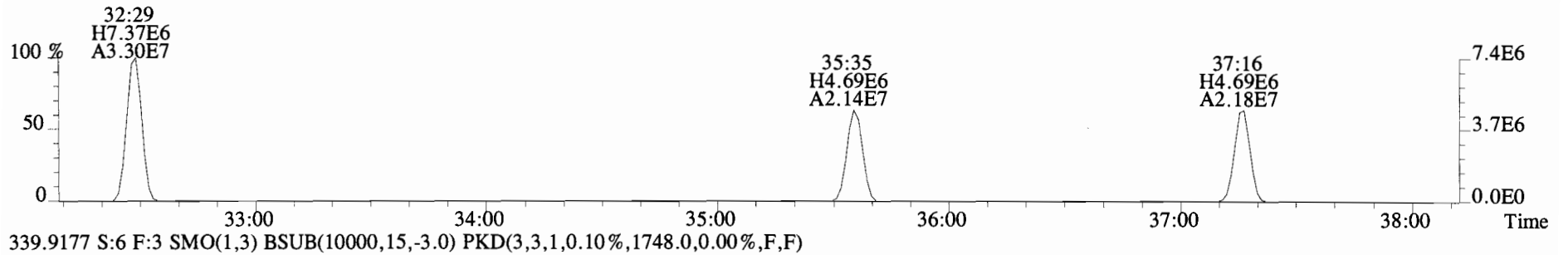
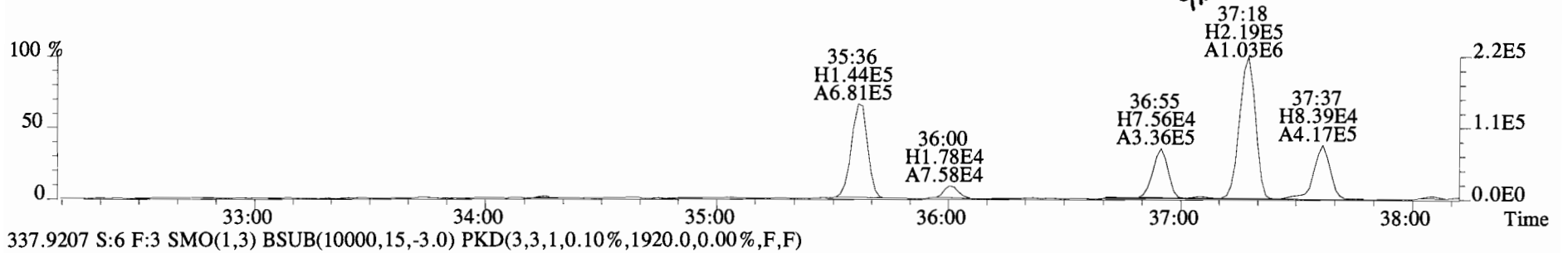
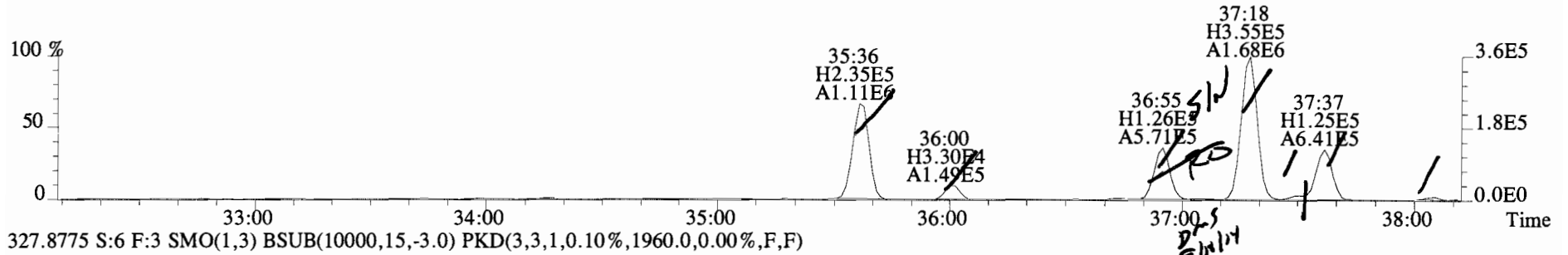
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301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7016.0,0.00%,F,F)



File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)

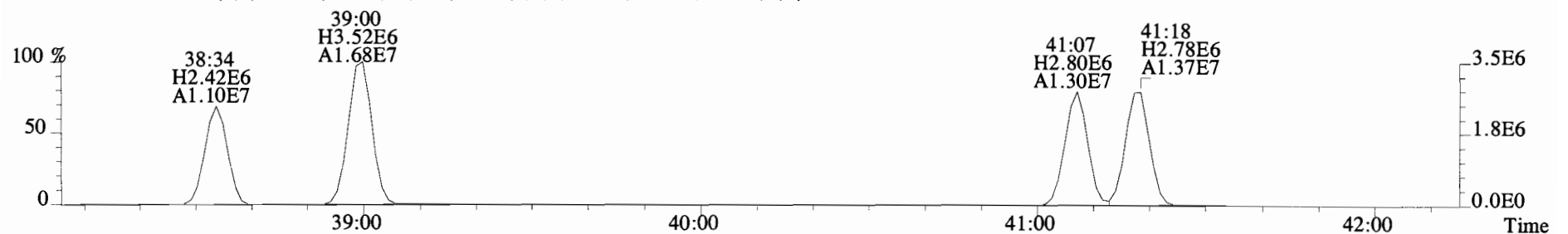
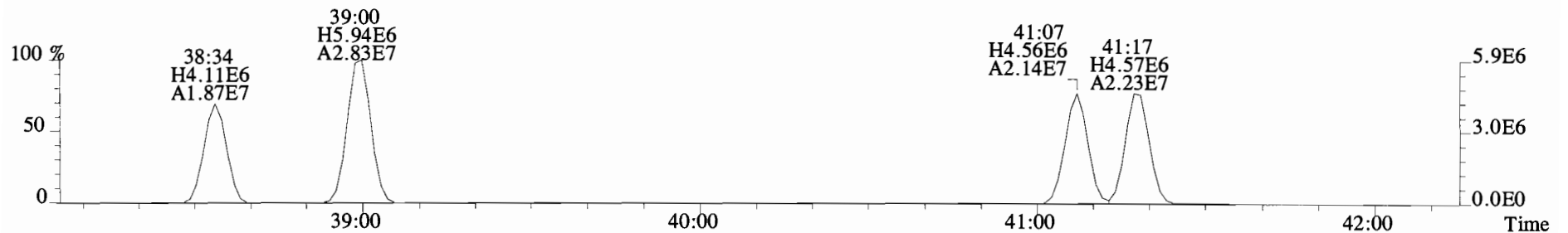
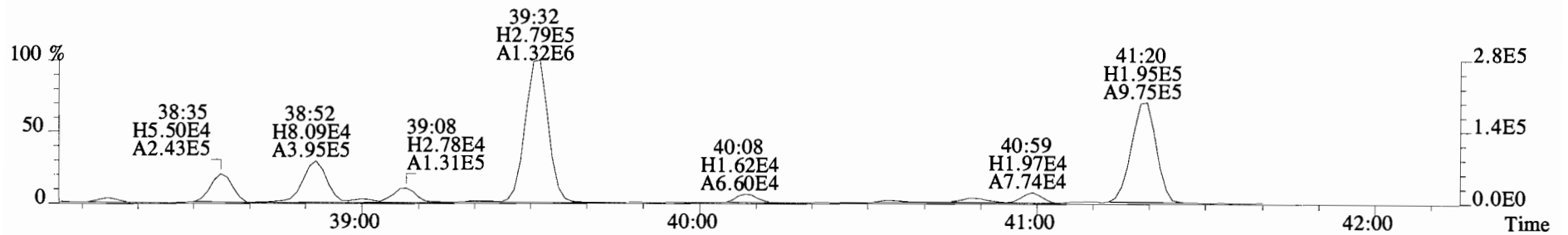
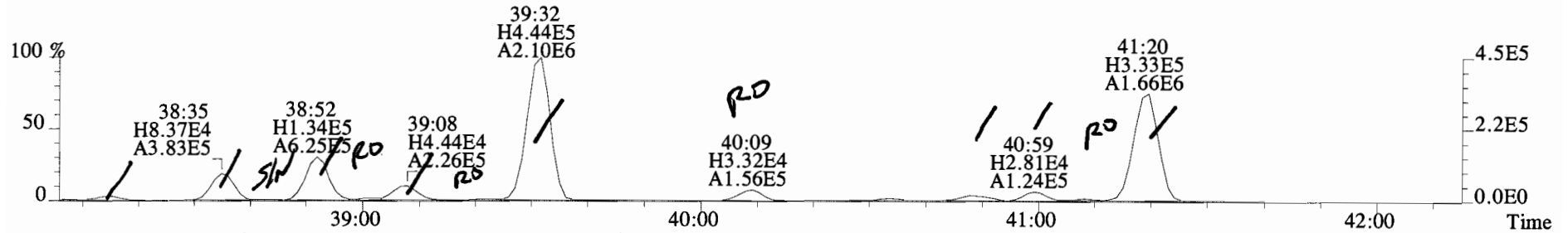


File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)

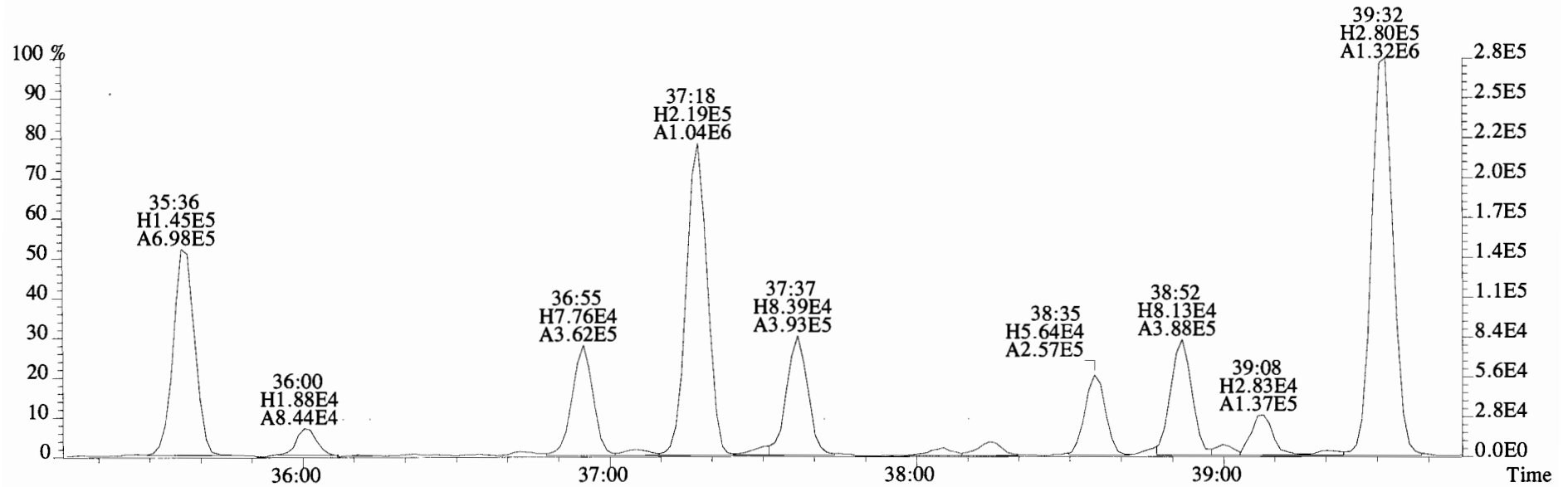
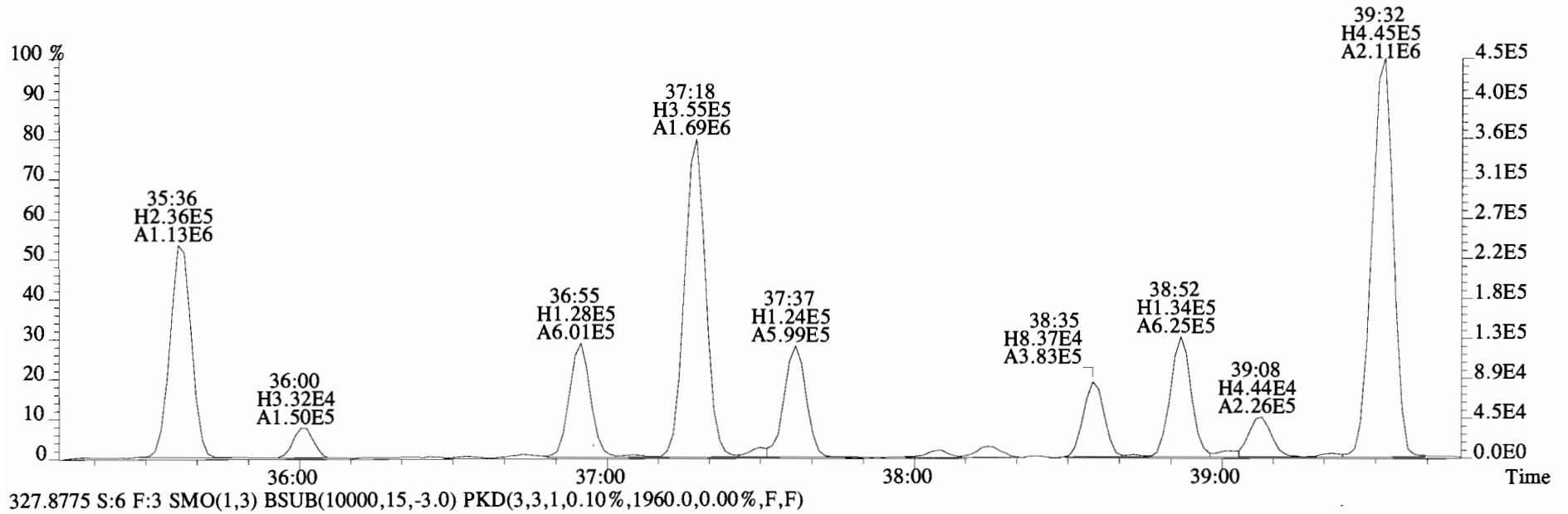




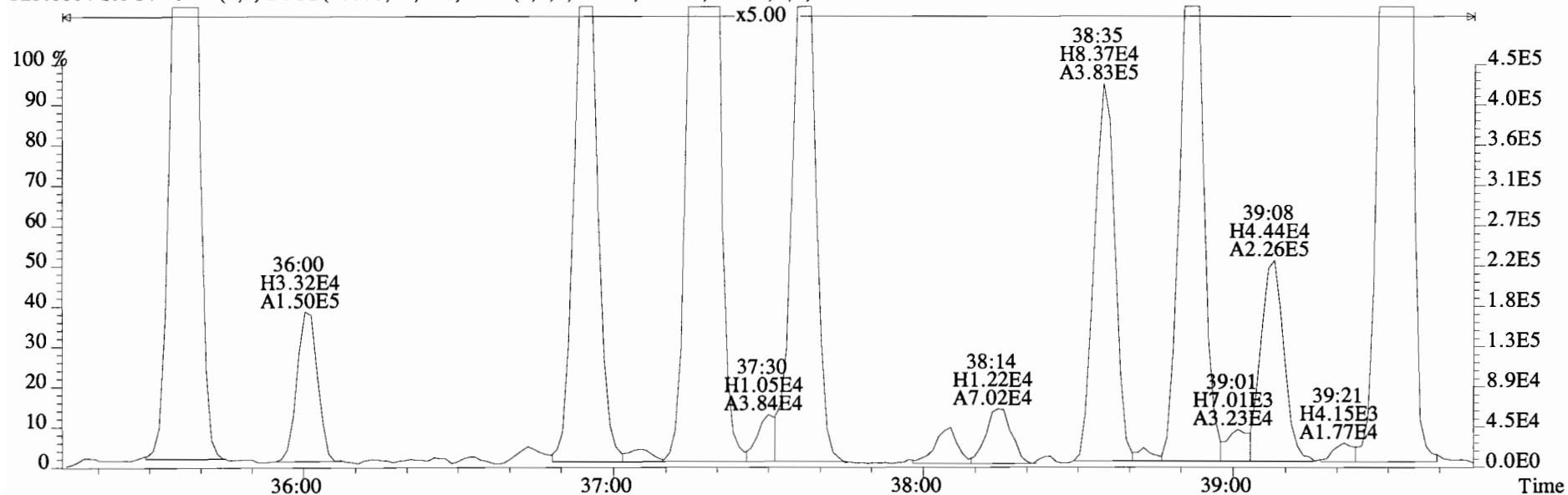
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)



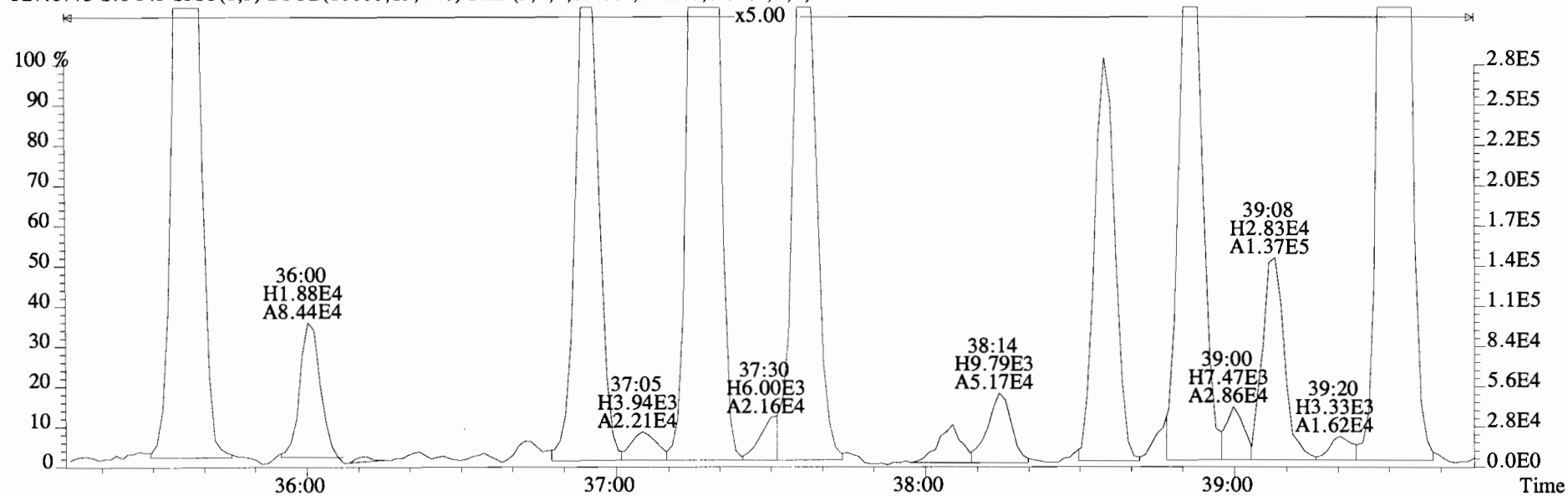
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)



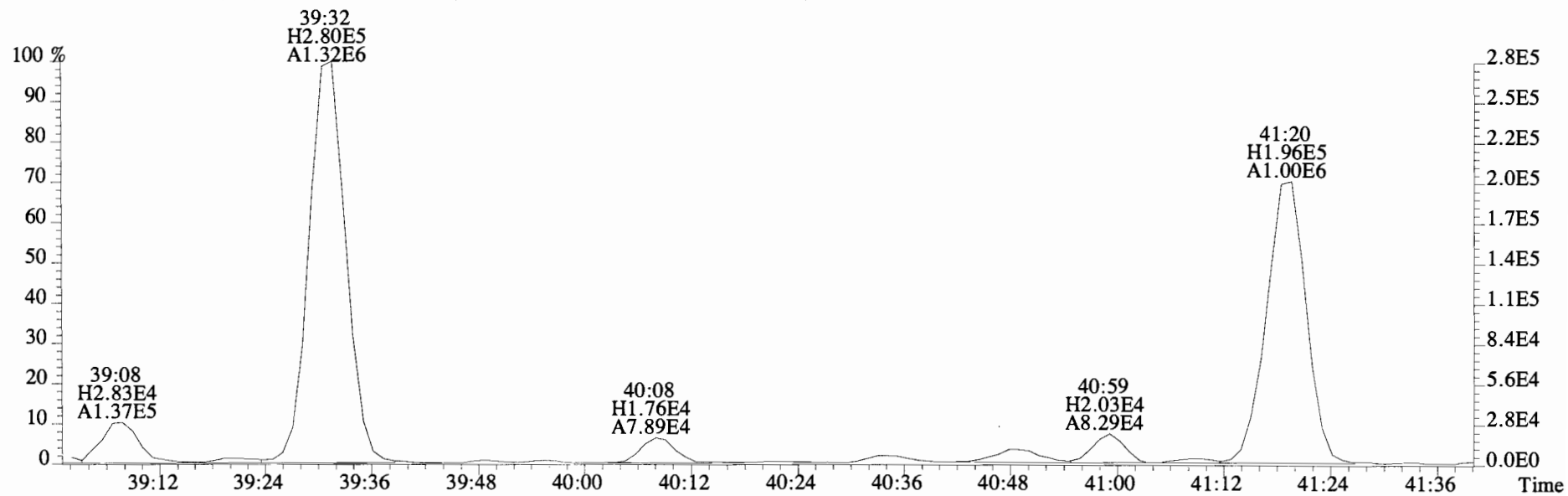
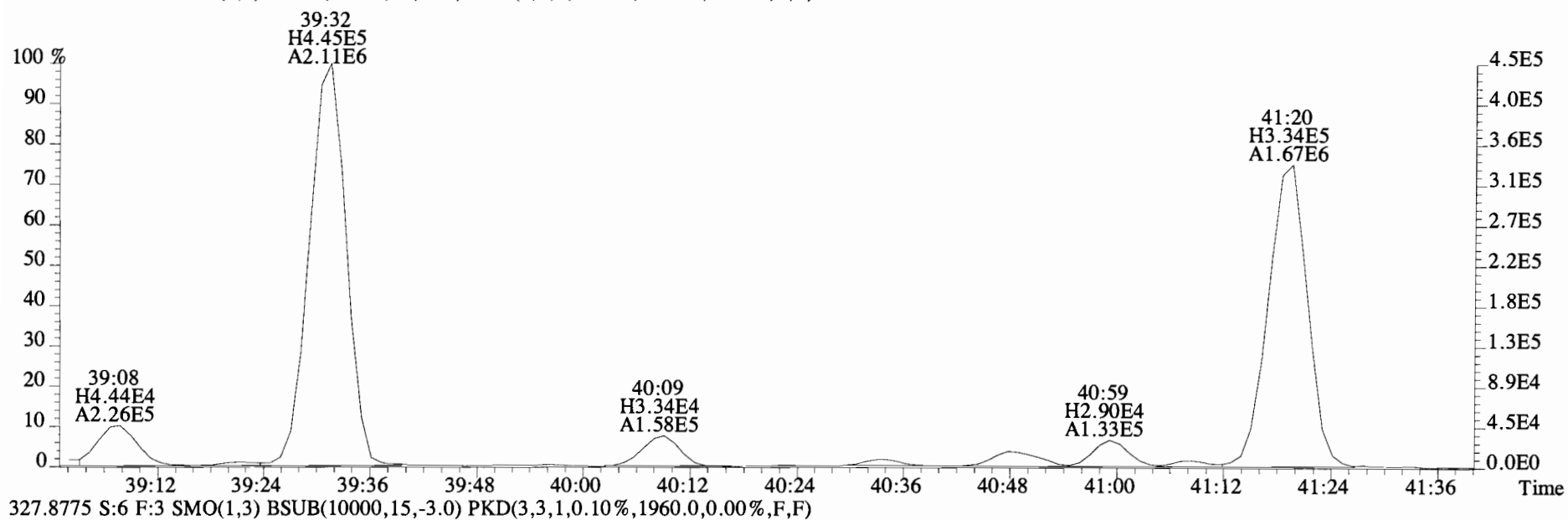
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)



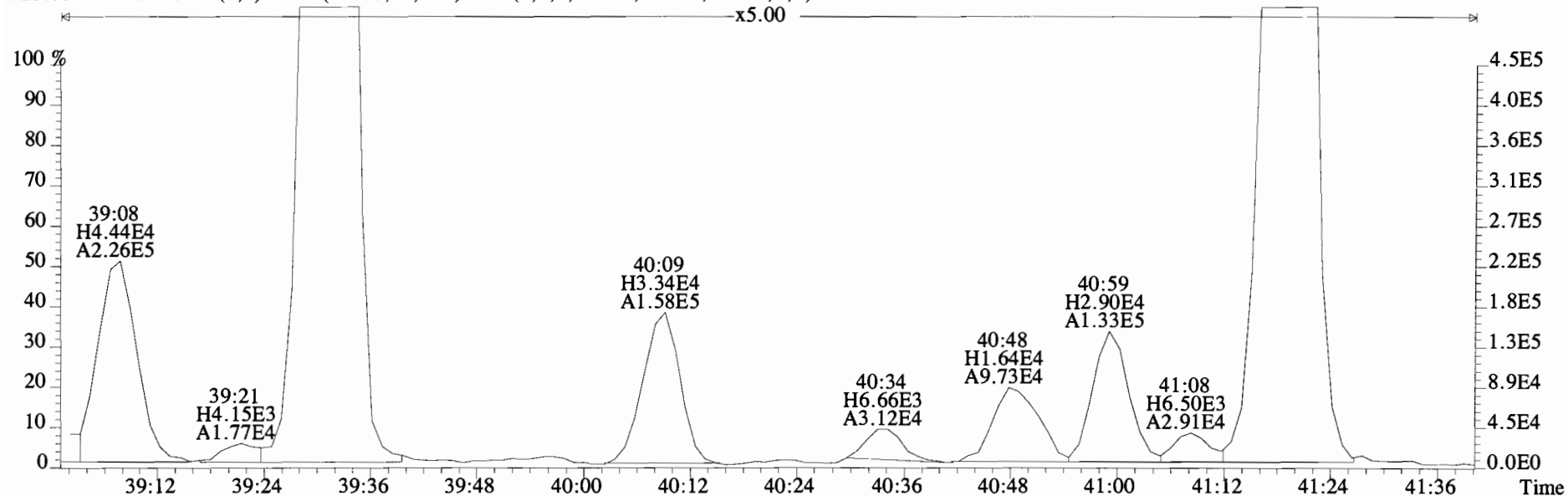
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



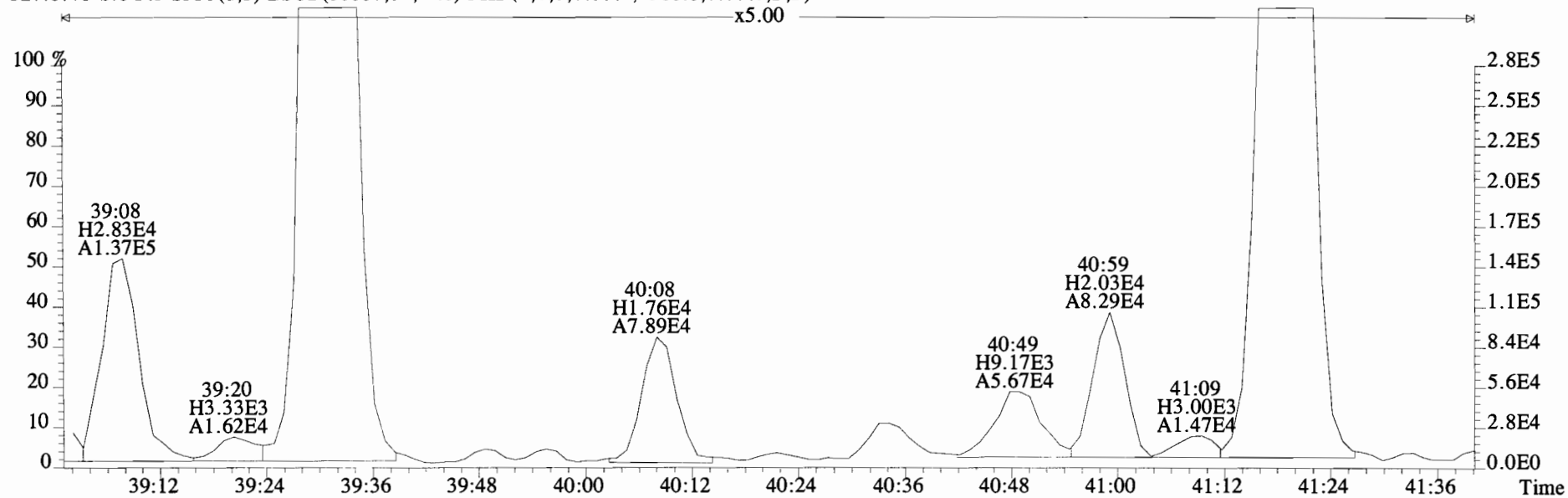
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)



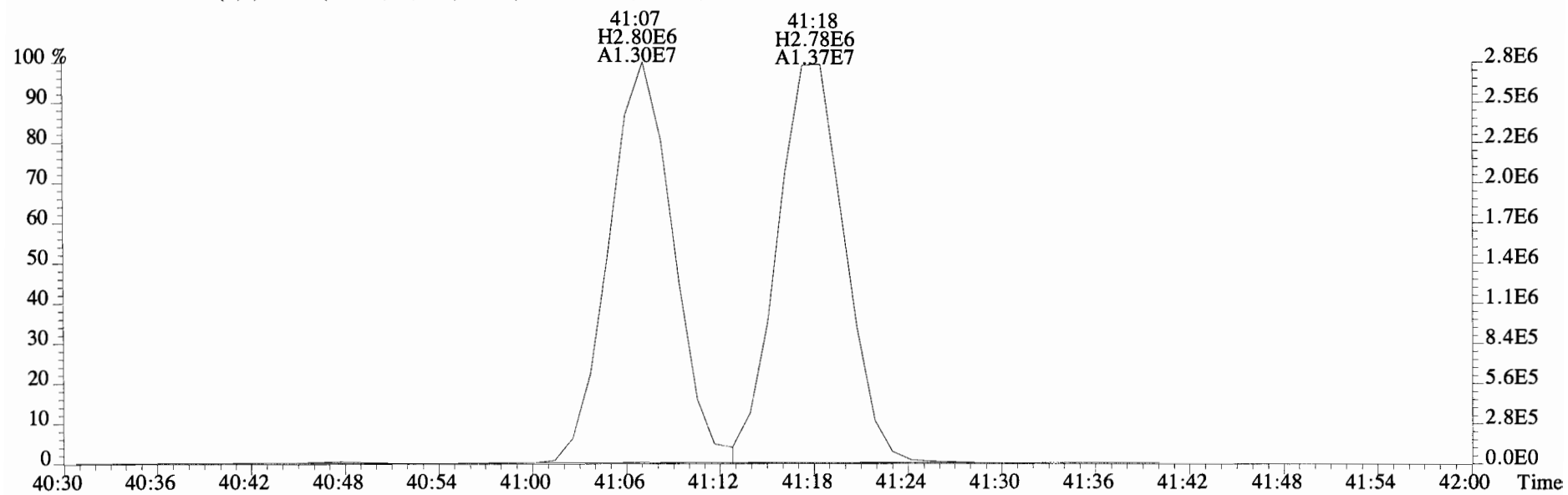
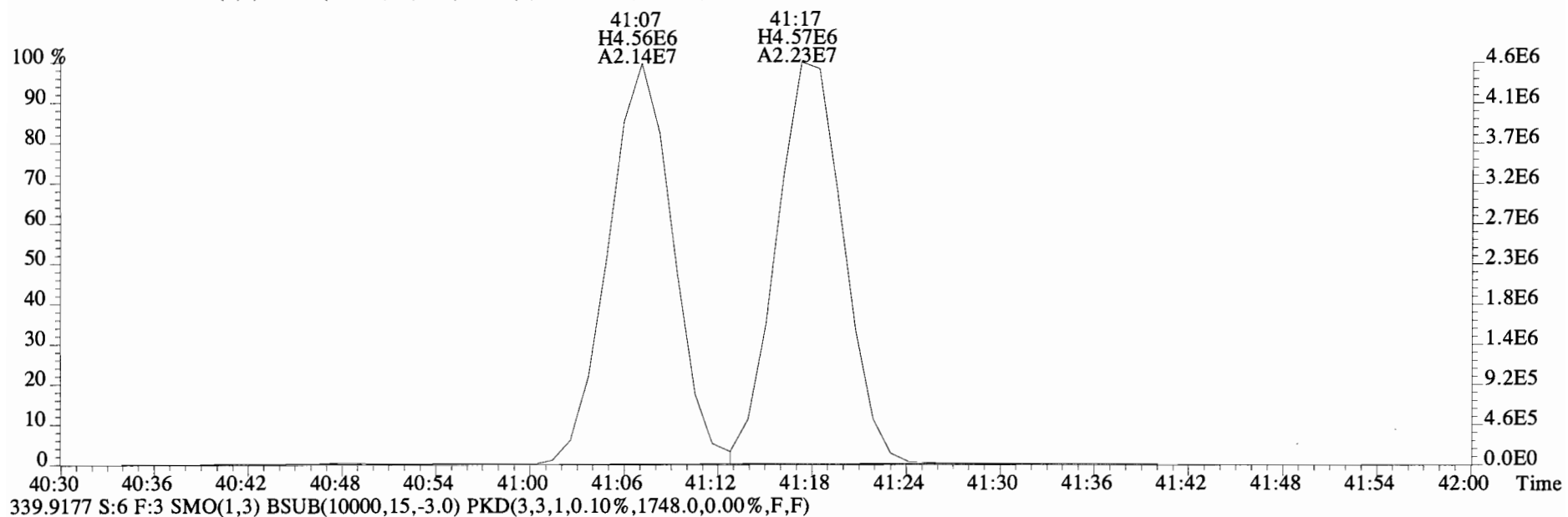
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,1816.0,0.00%,F,F)



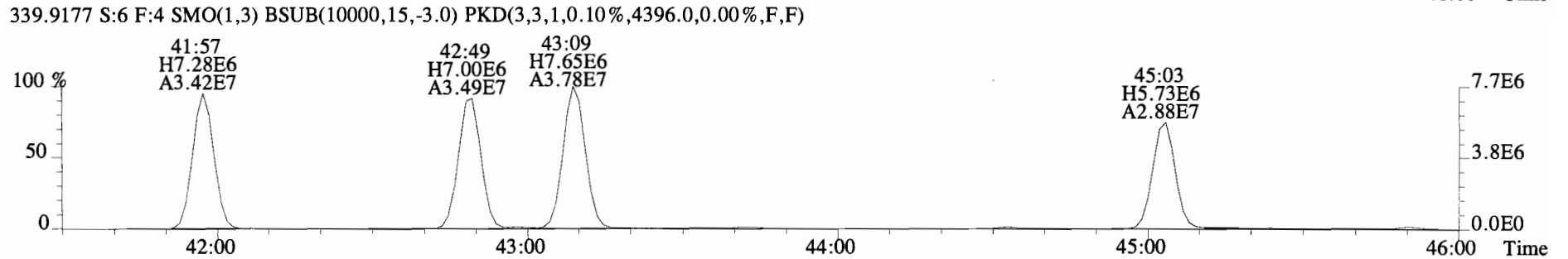
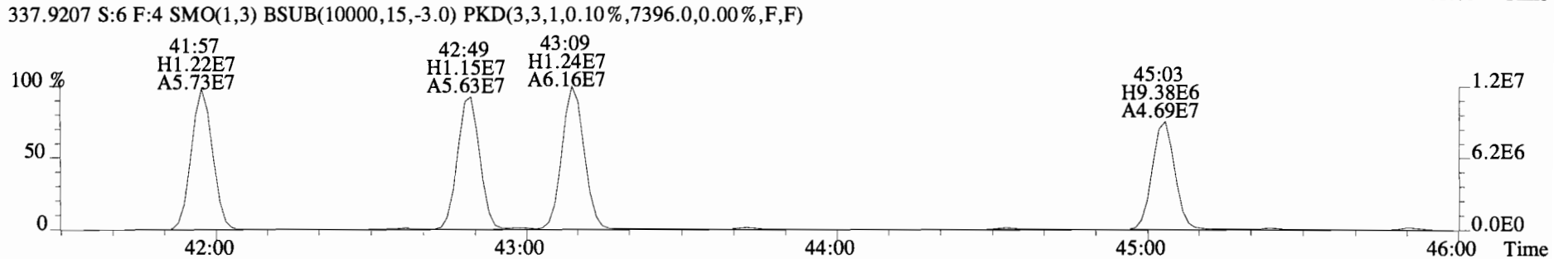
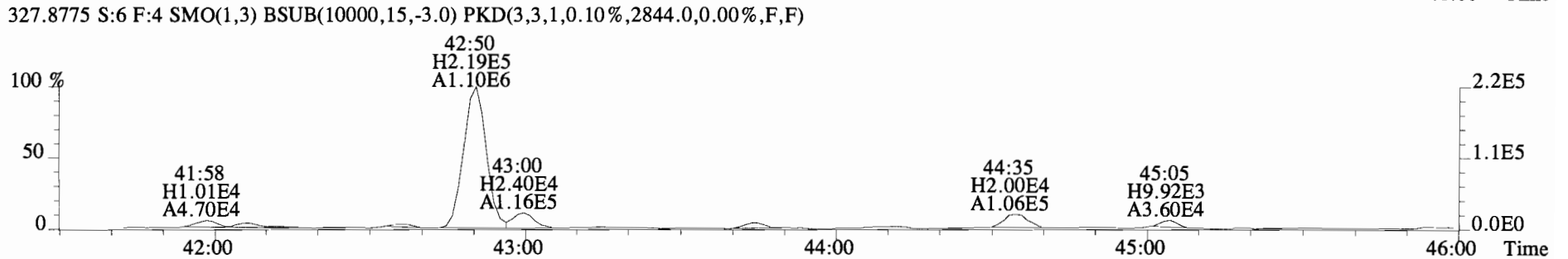
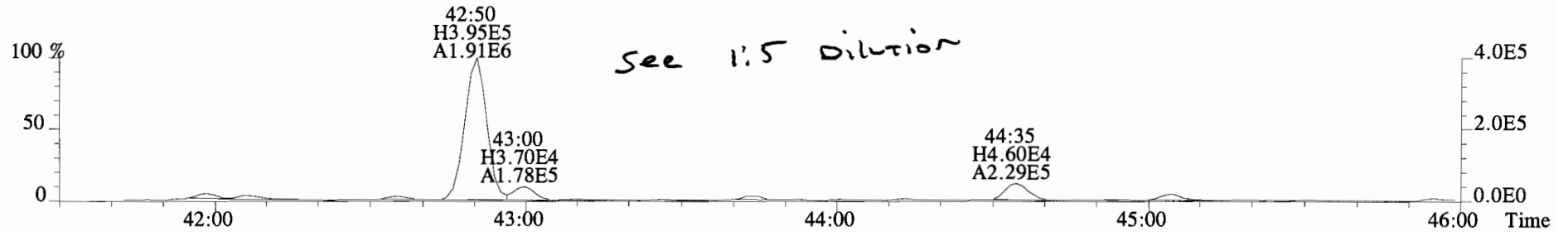
327.8775 S:6 F:3 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



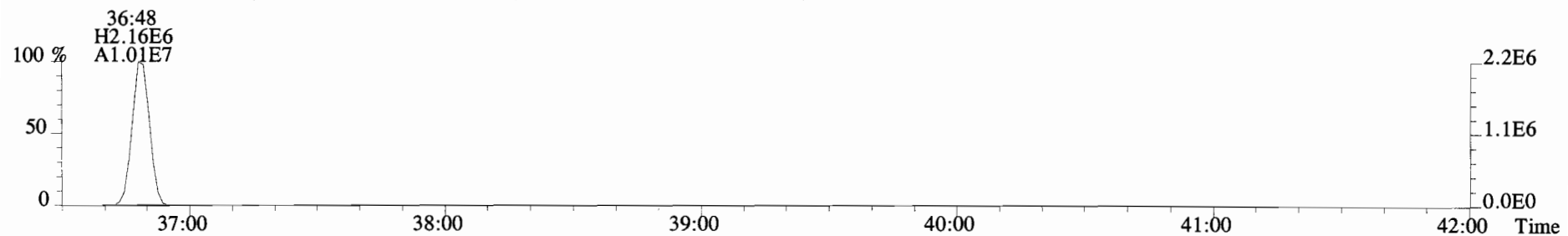
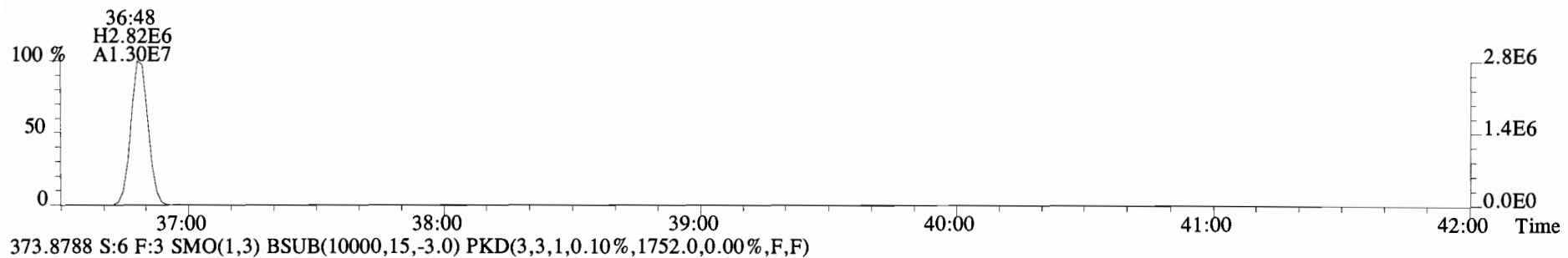
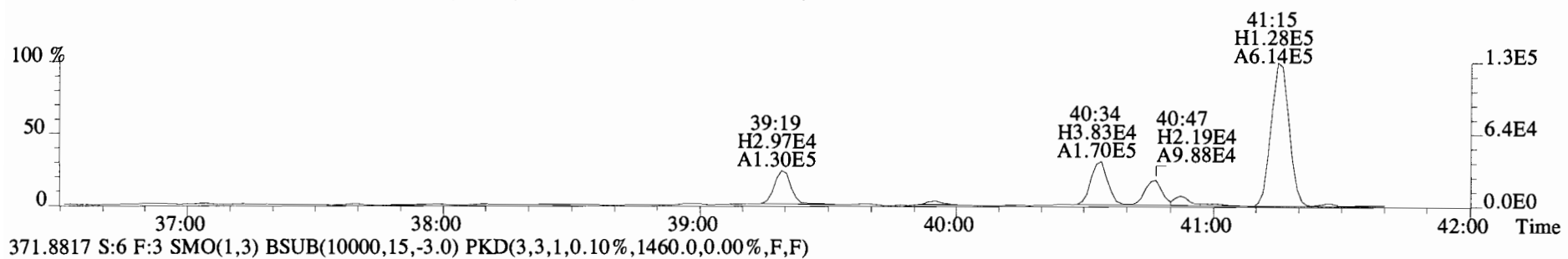
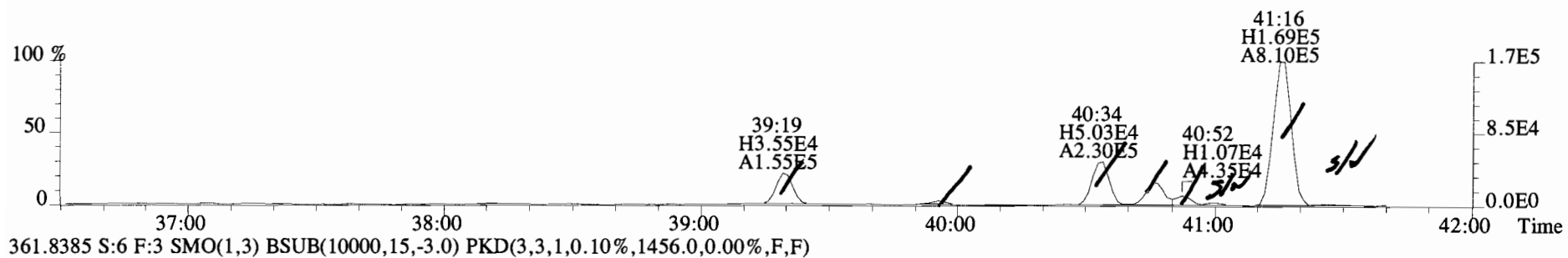
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)

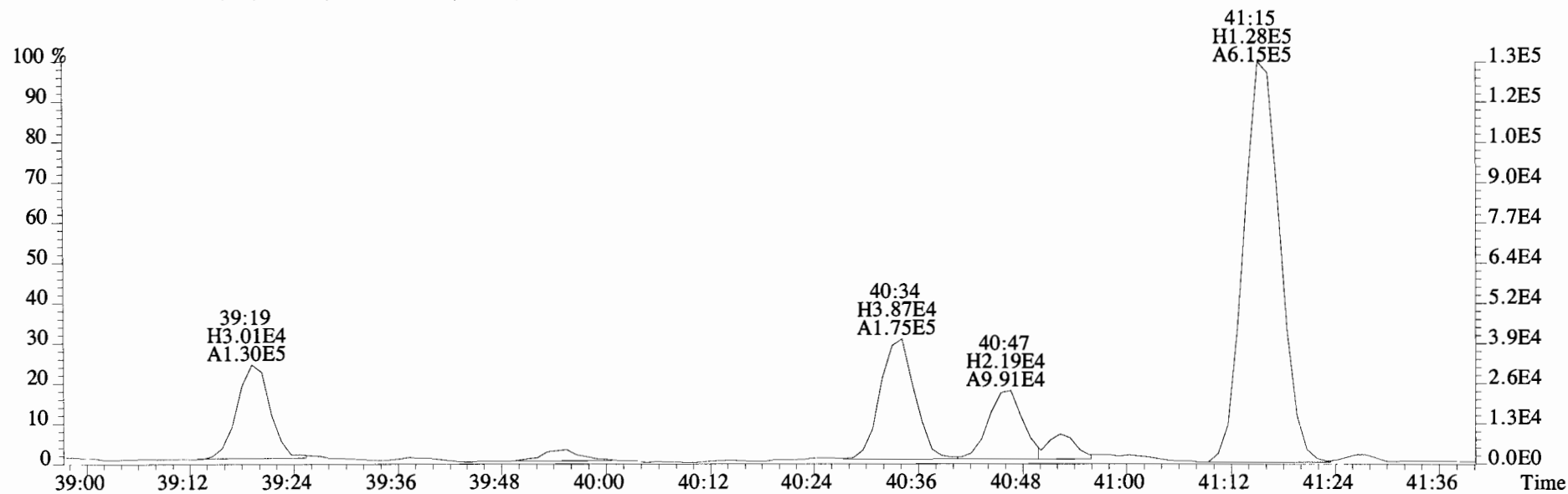
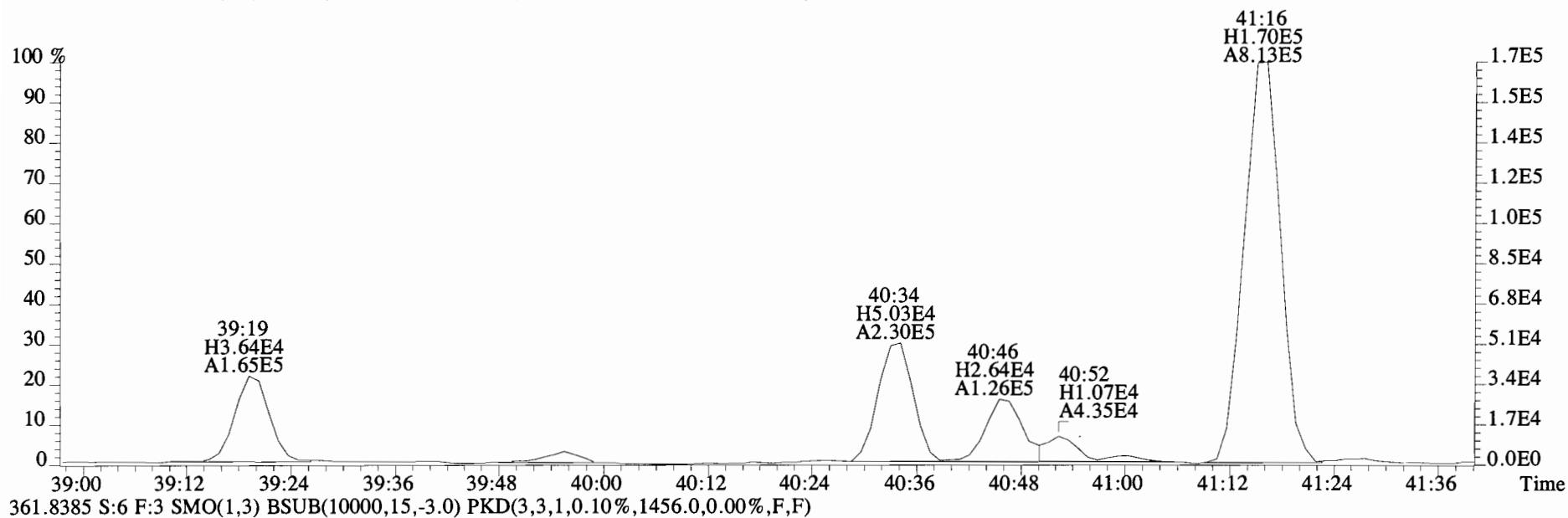


File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)

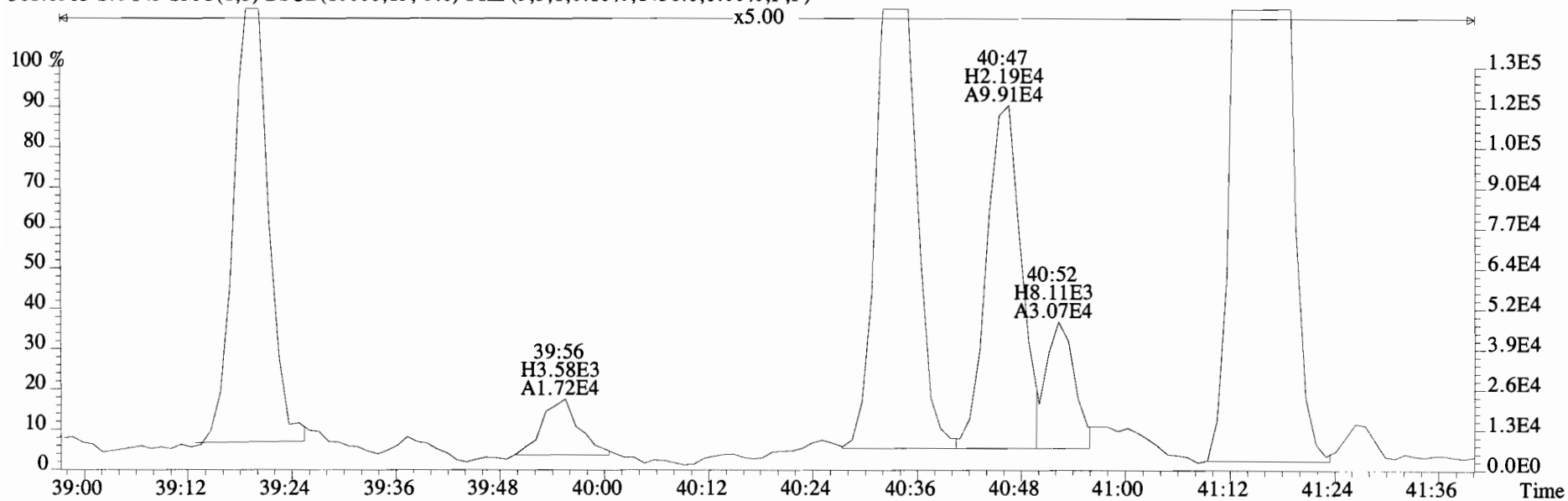
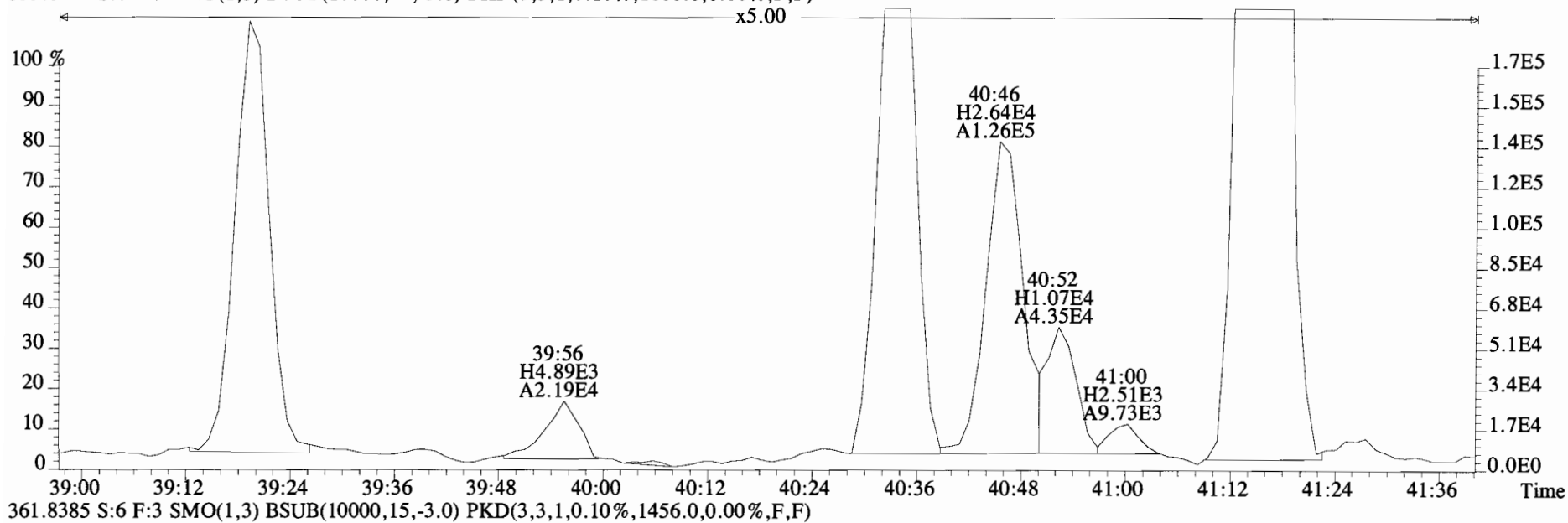




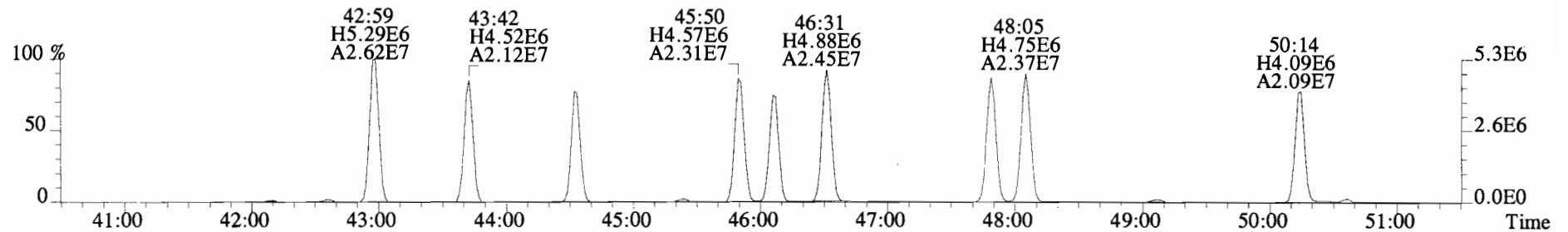
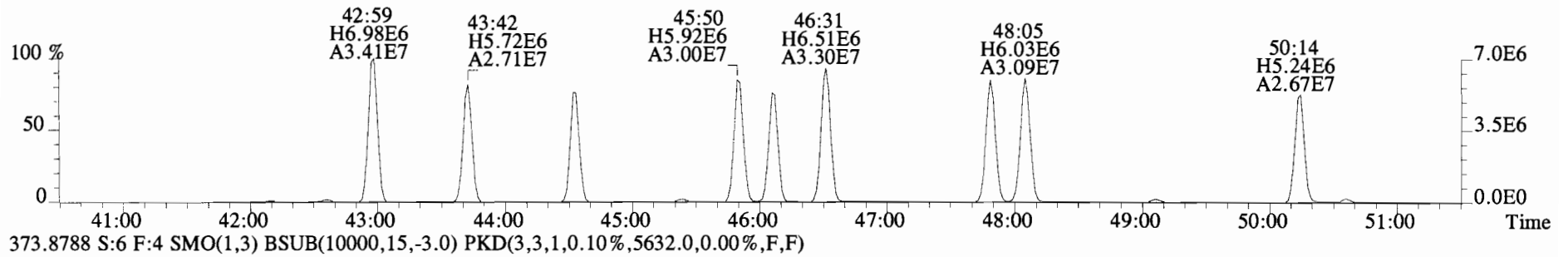
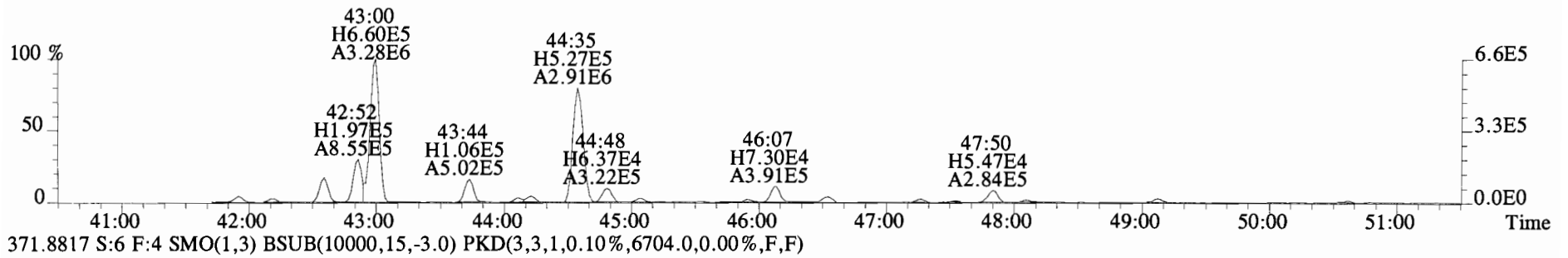
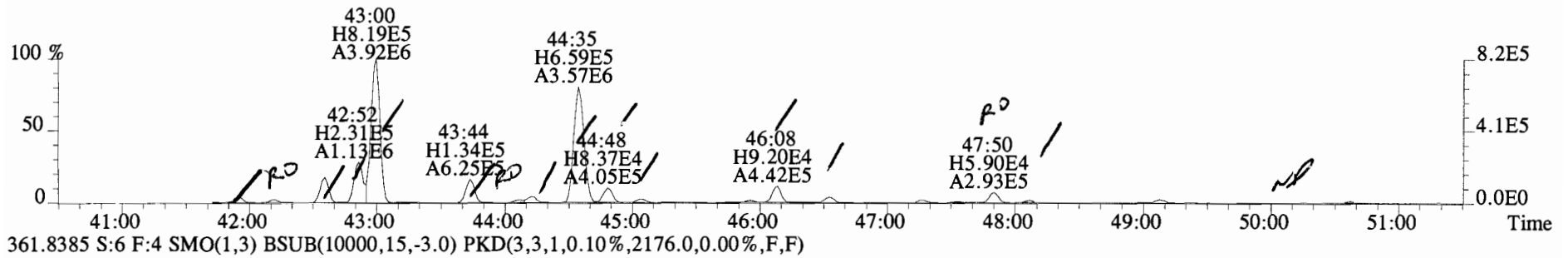
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



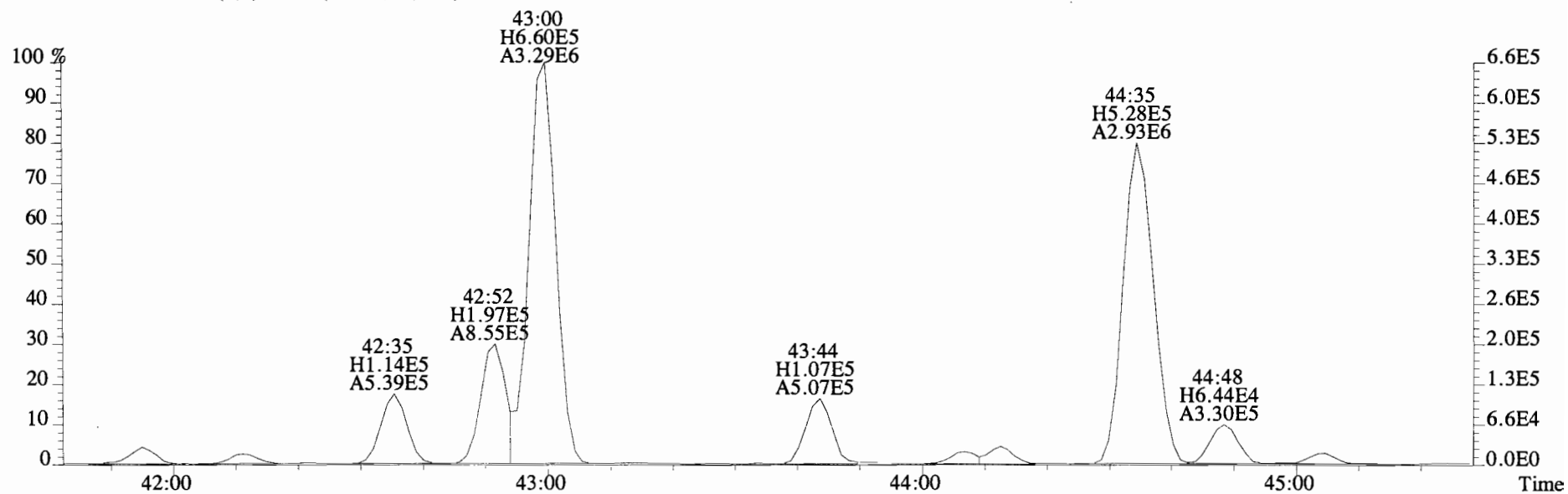
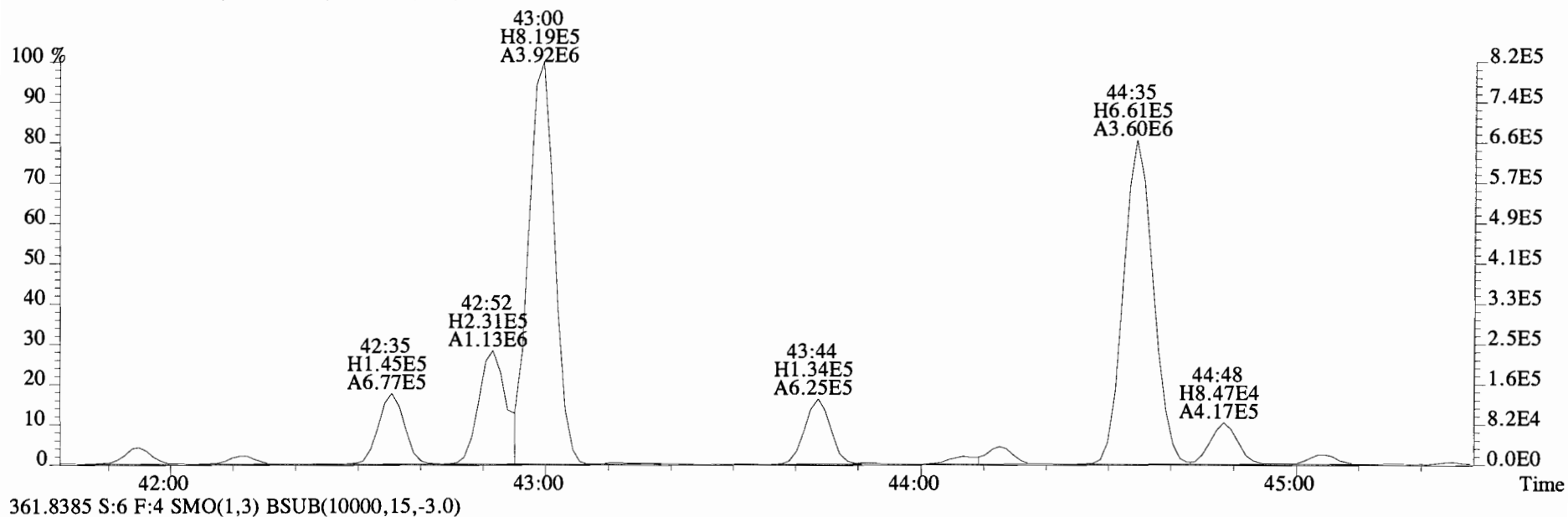
File:140910E2 #1-747 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



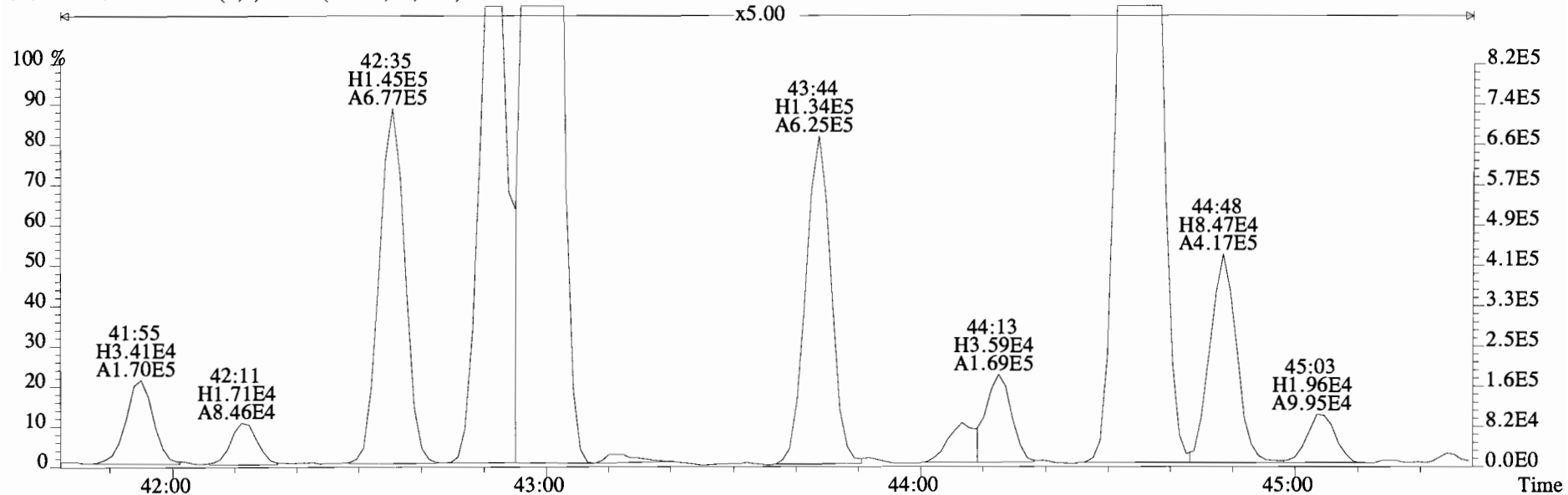
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2184.0,0.00%,F,F)



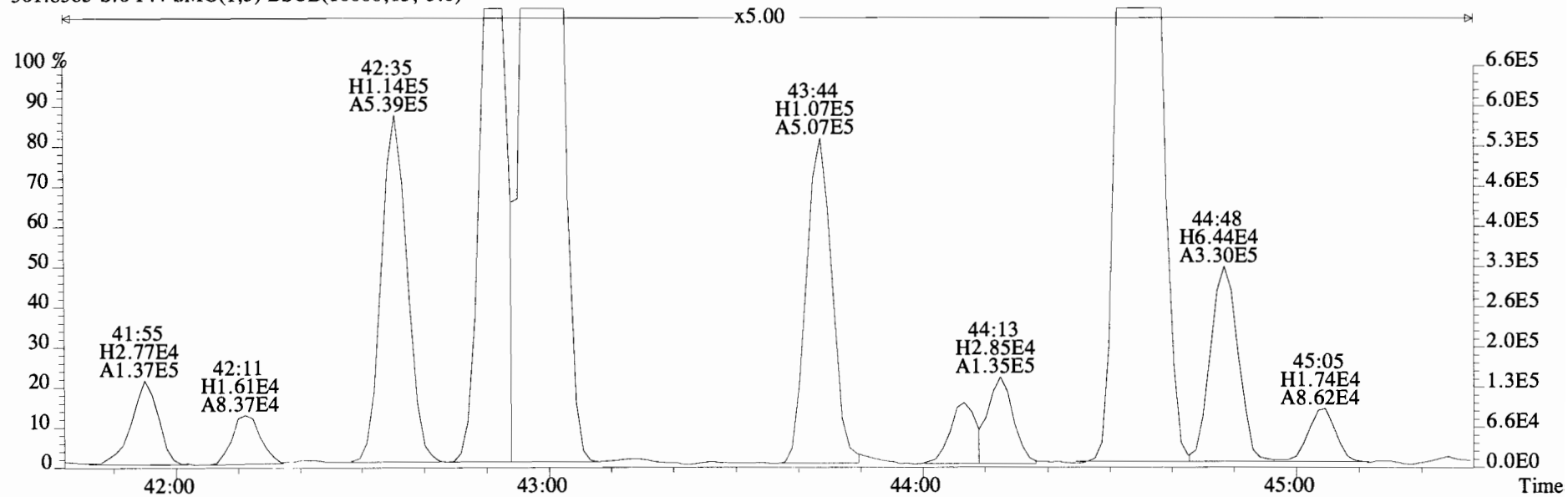
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0)



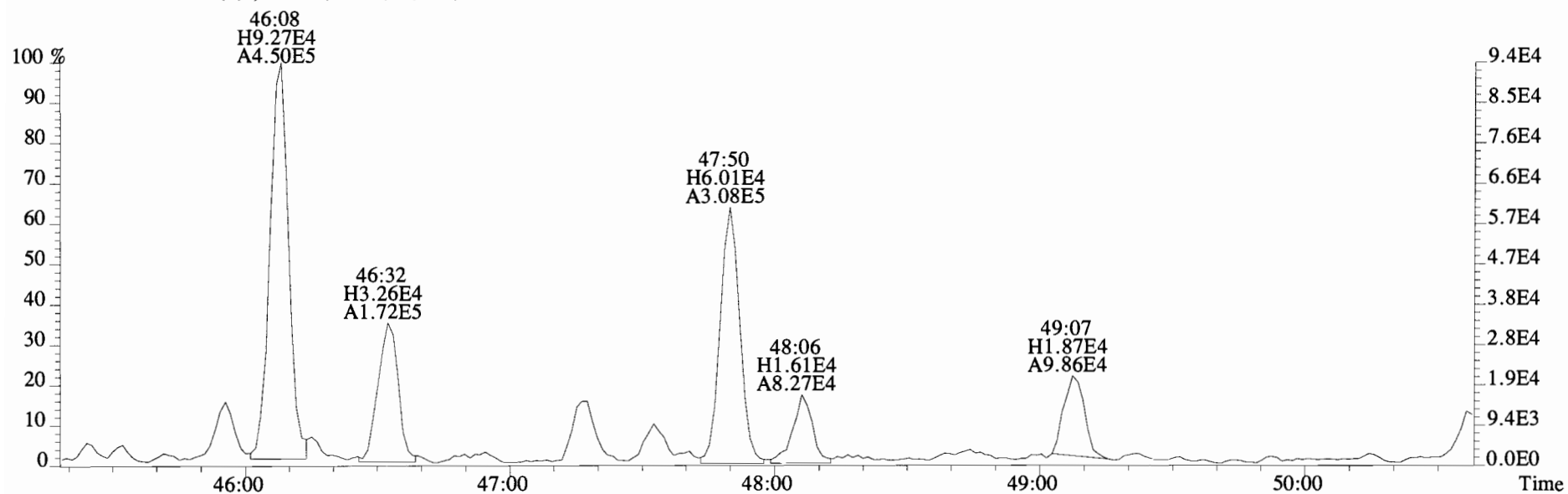
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0)



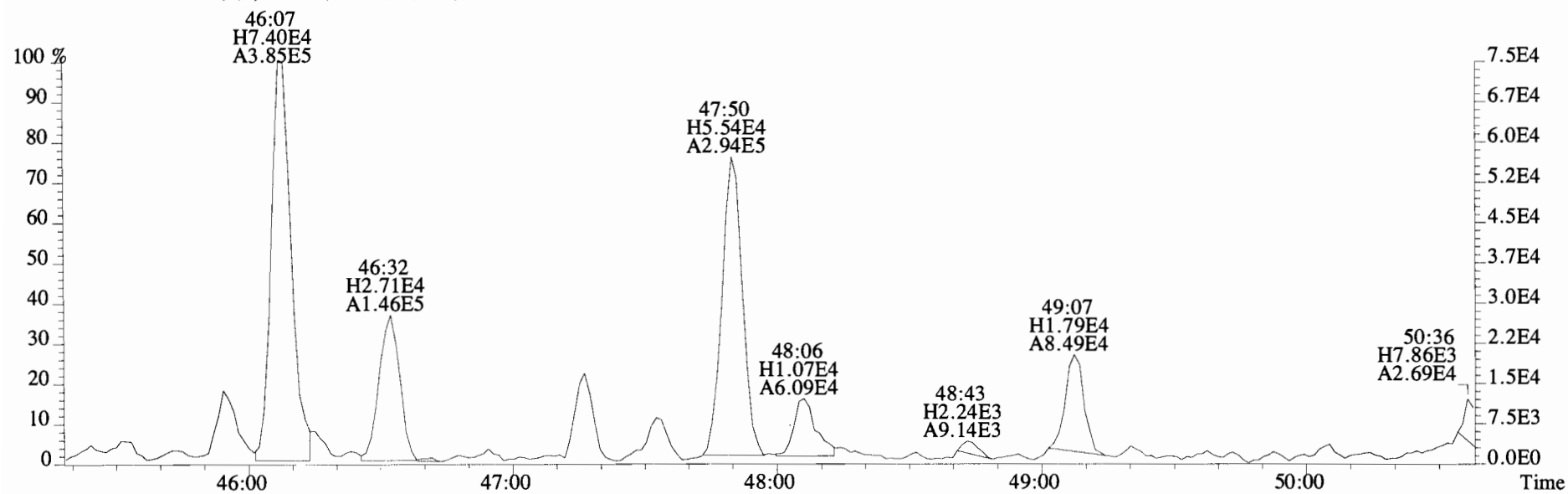
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0)



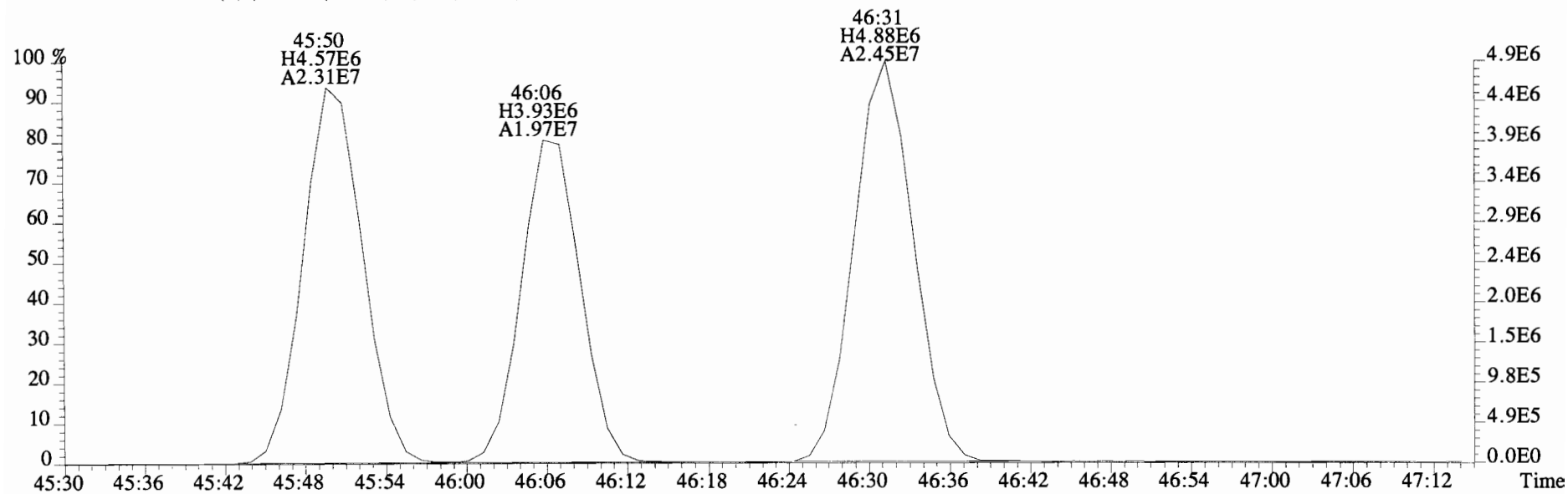
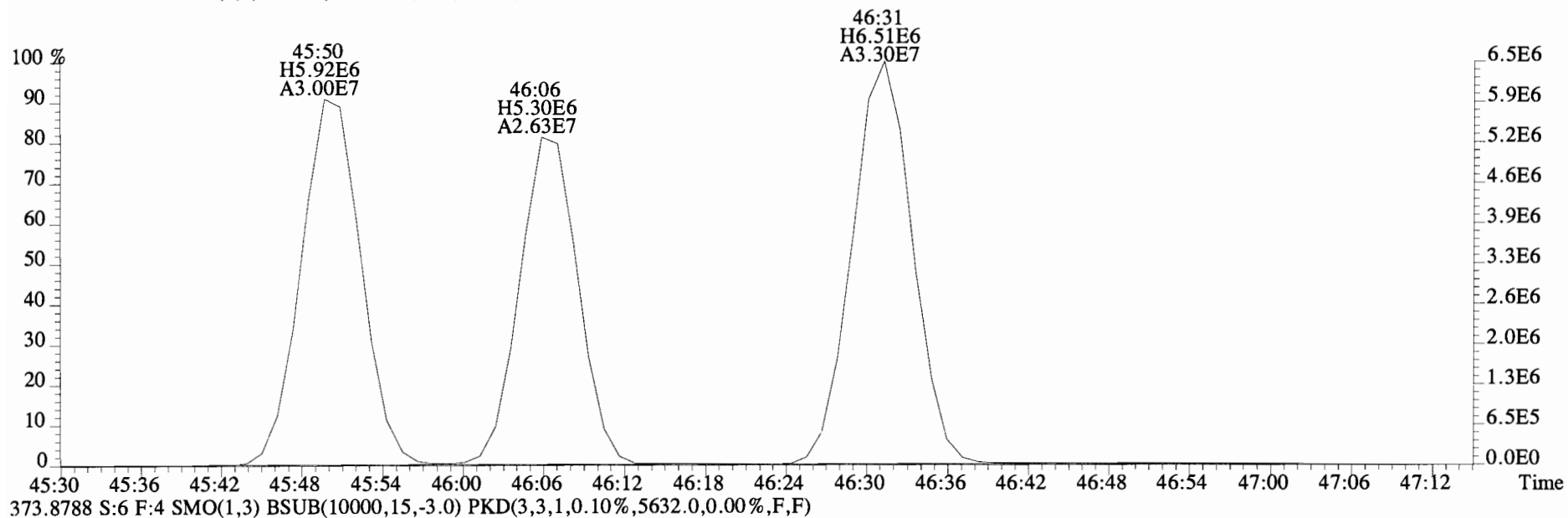
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0)



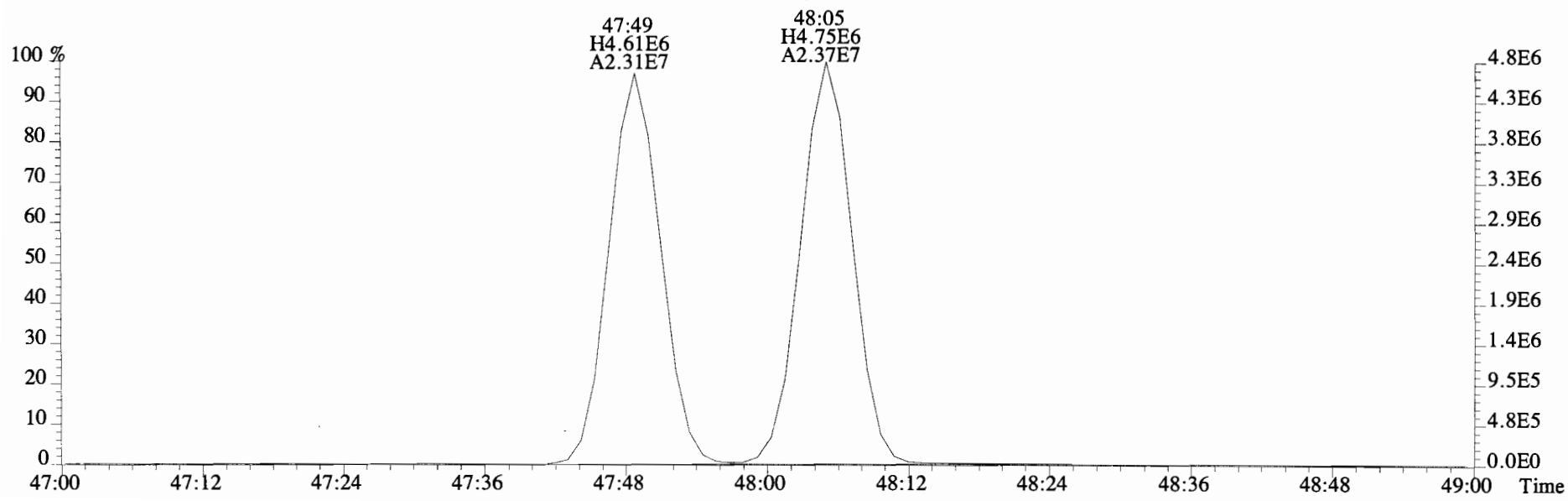
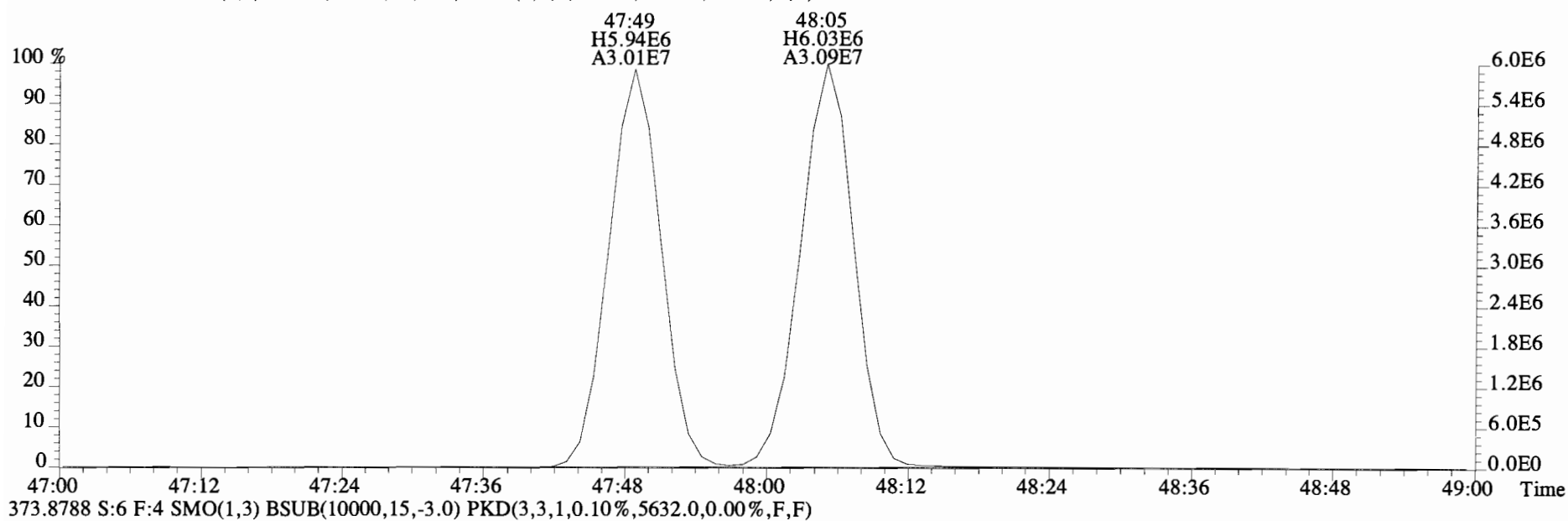
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0)



File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6704.0,0.00%,F,F)

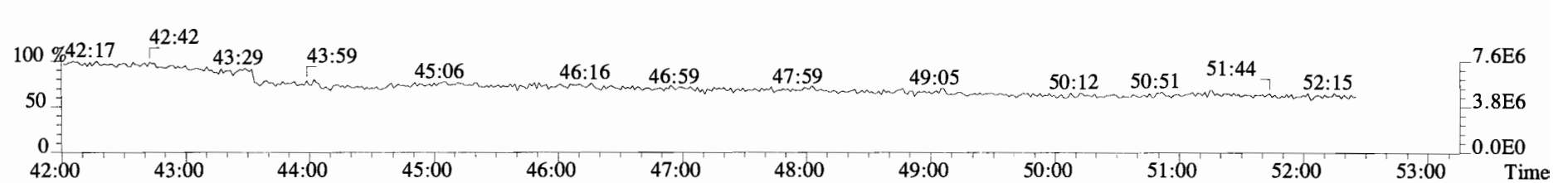
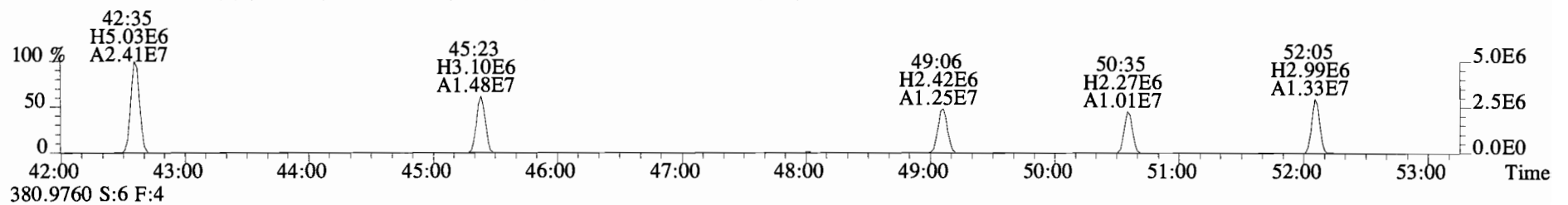
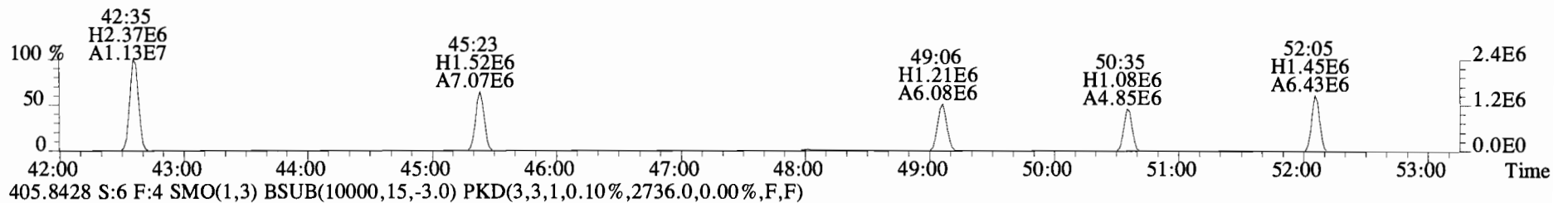
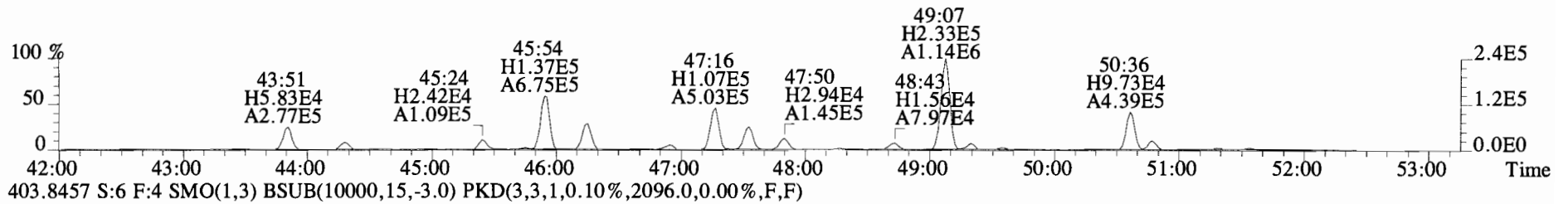
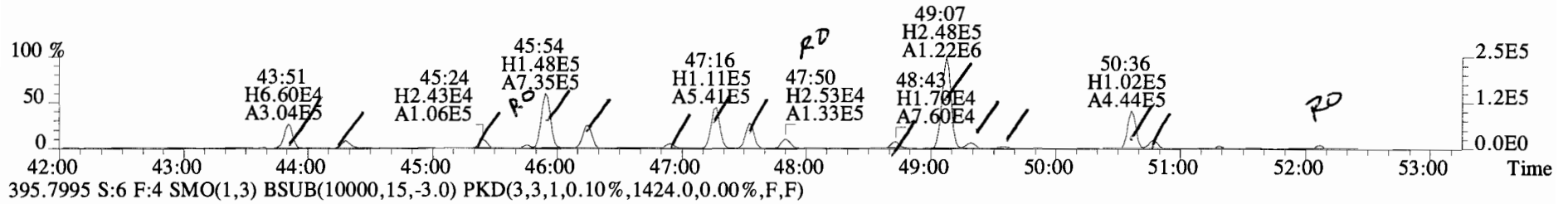


File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6704.0,0.00%,F,F)

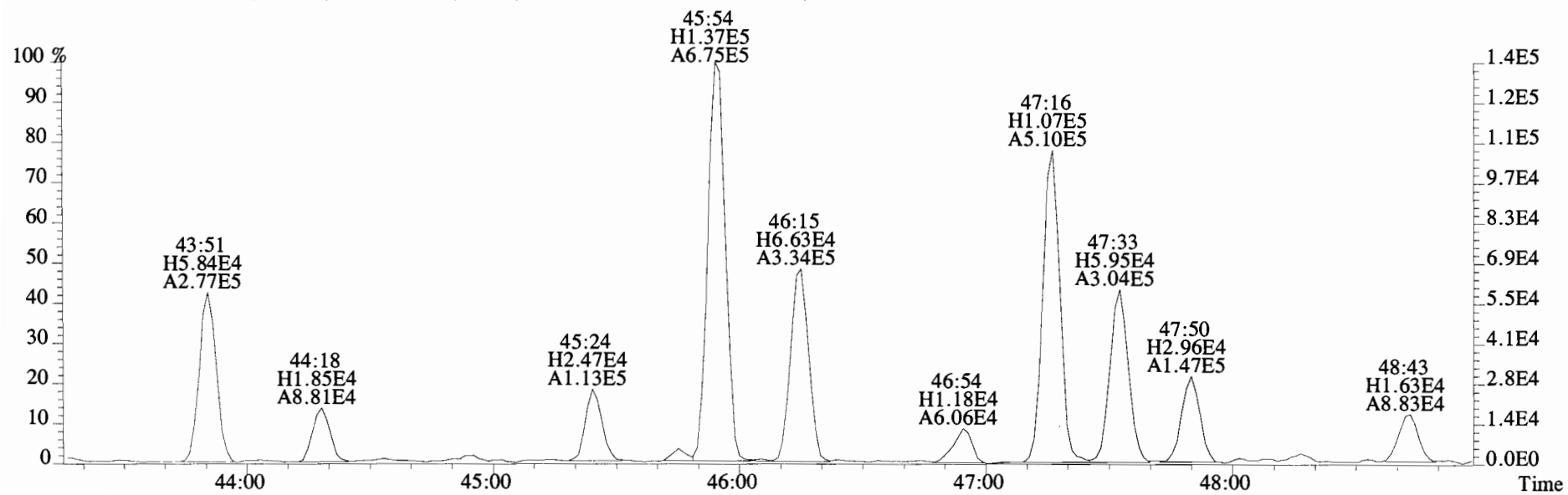
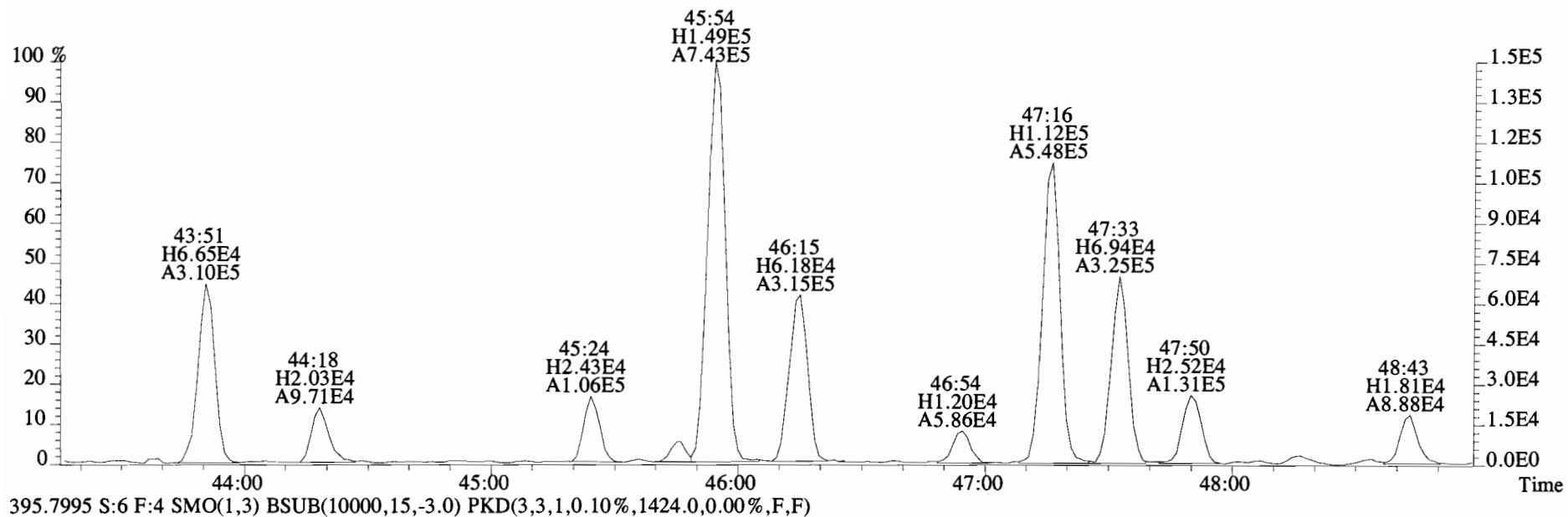




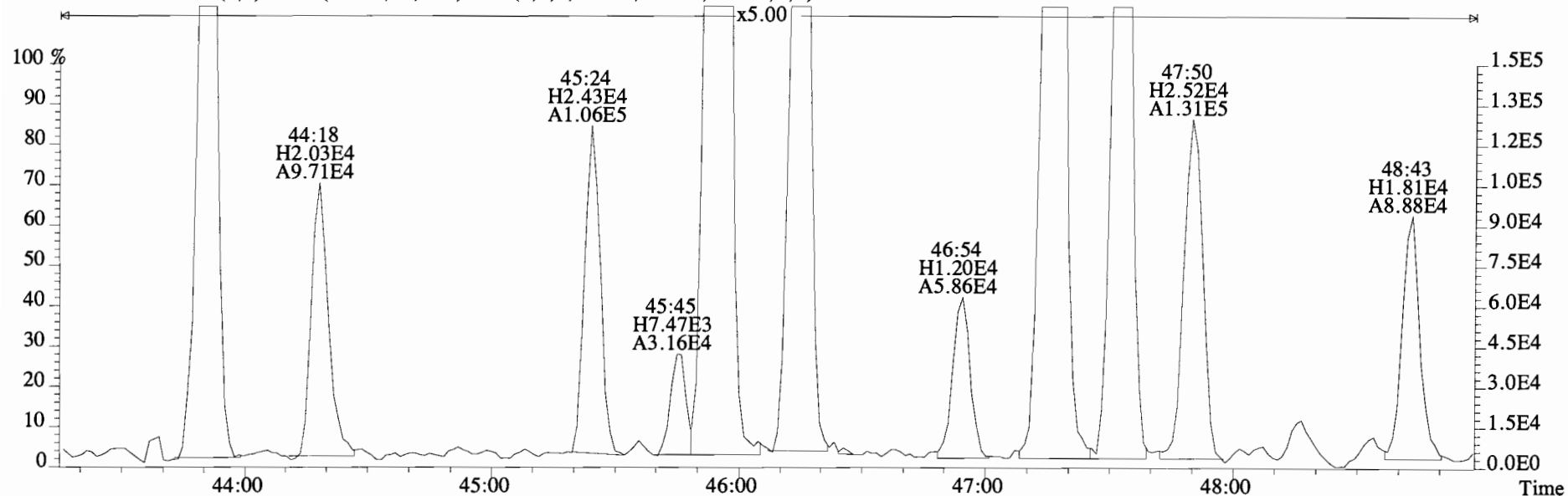
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



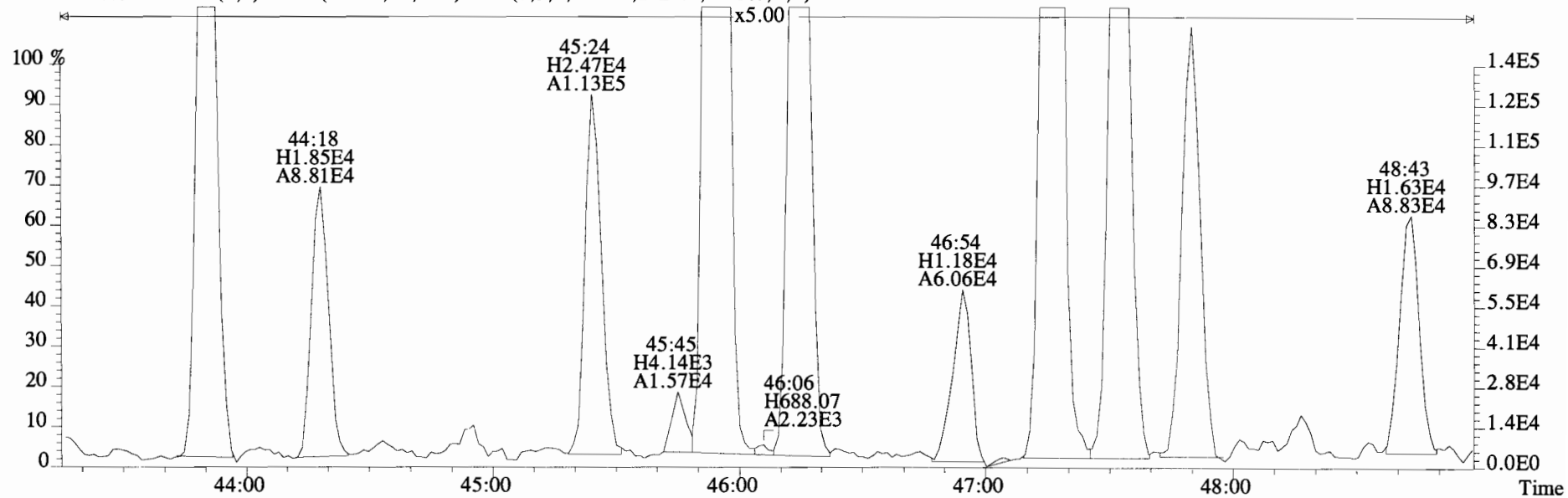
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



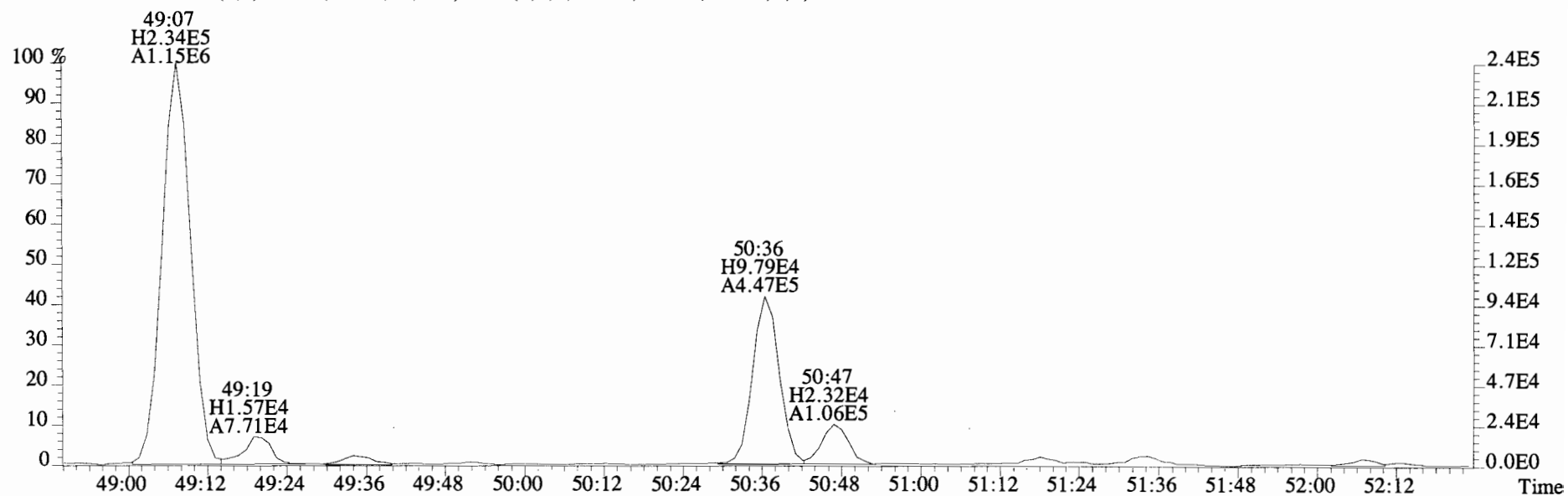
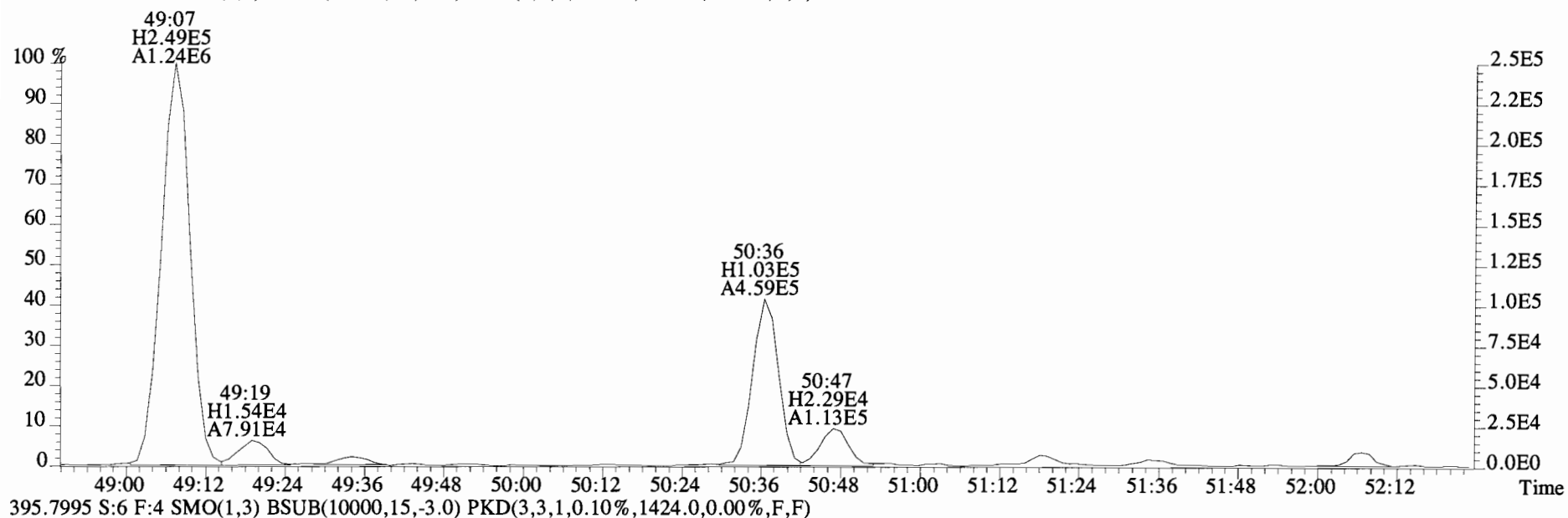
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



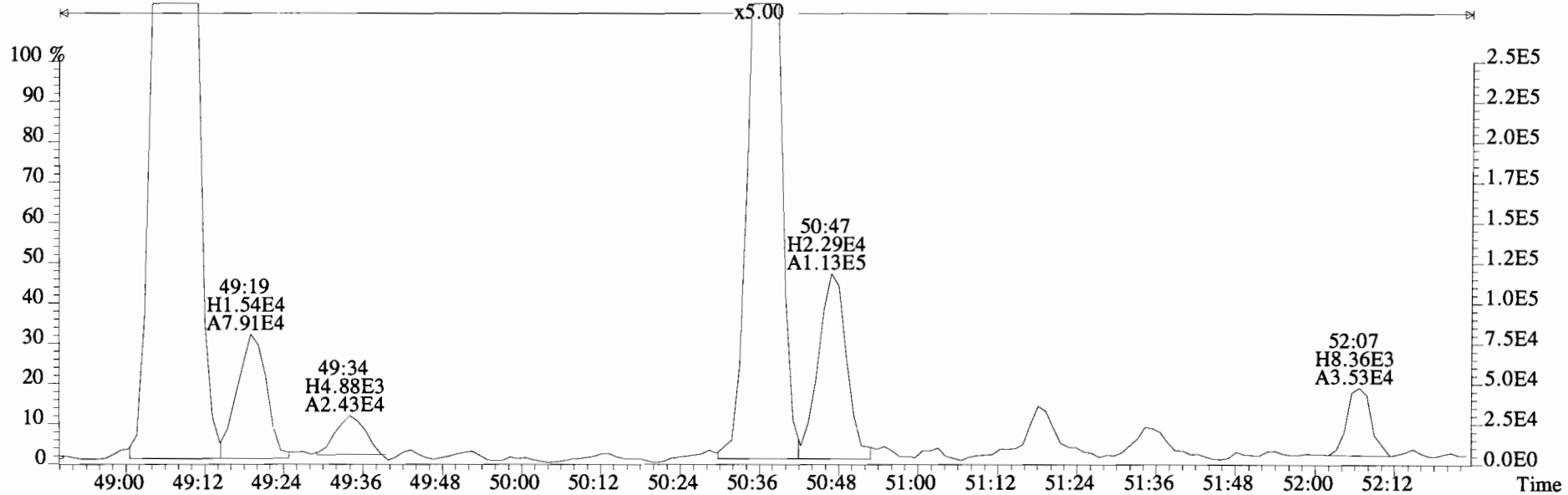
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1424.0,0.00%,F,F)



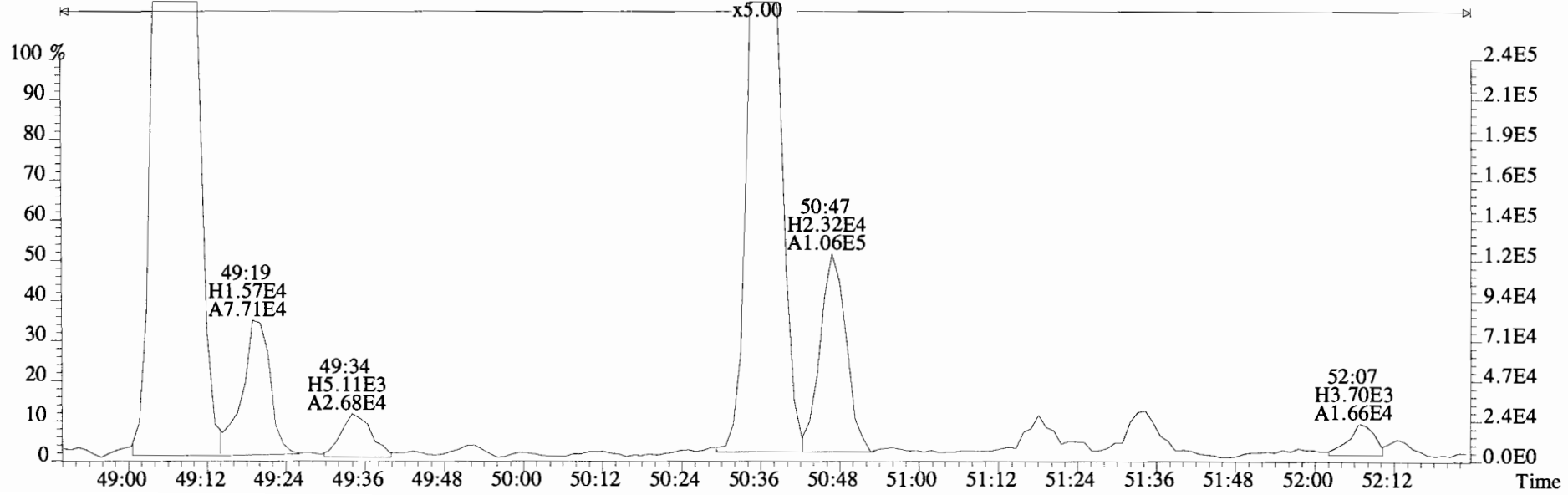
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



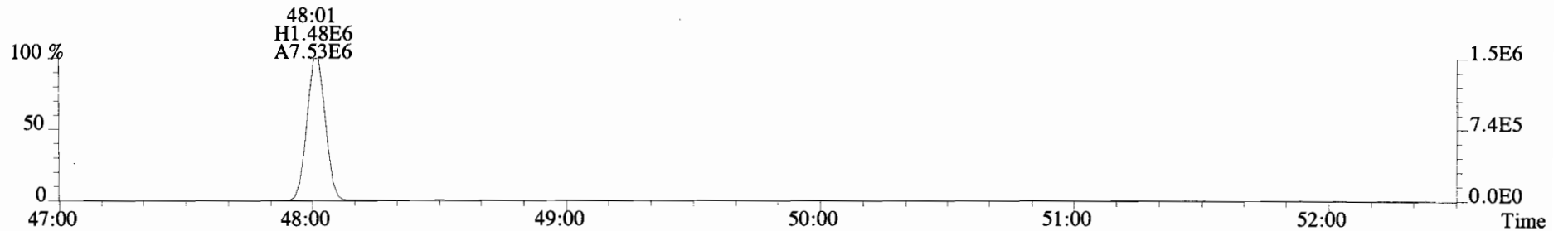
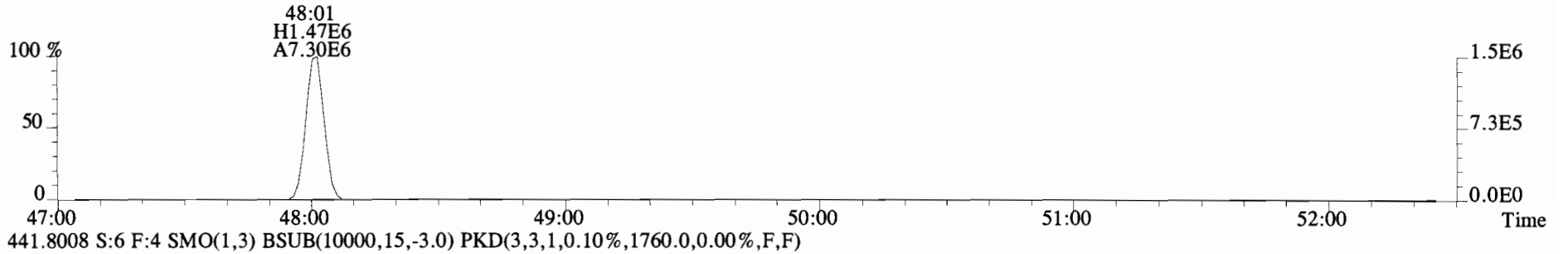
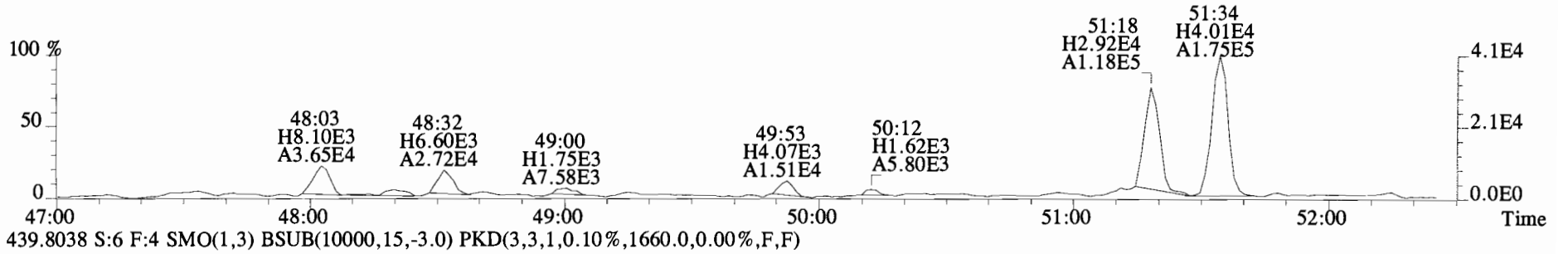
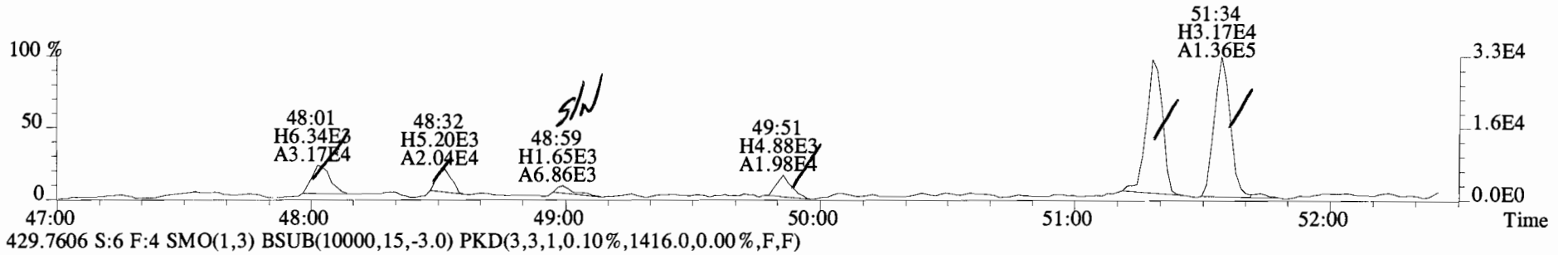
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
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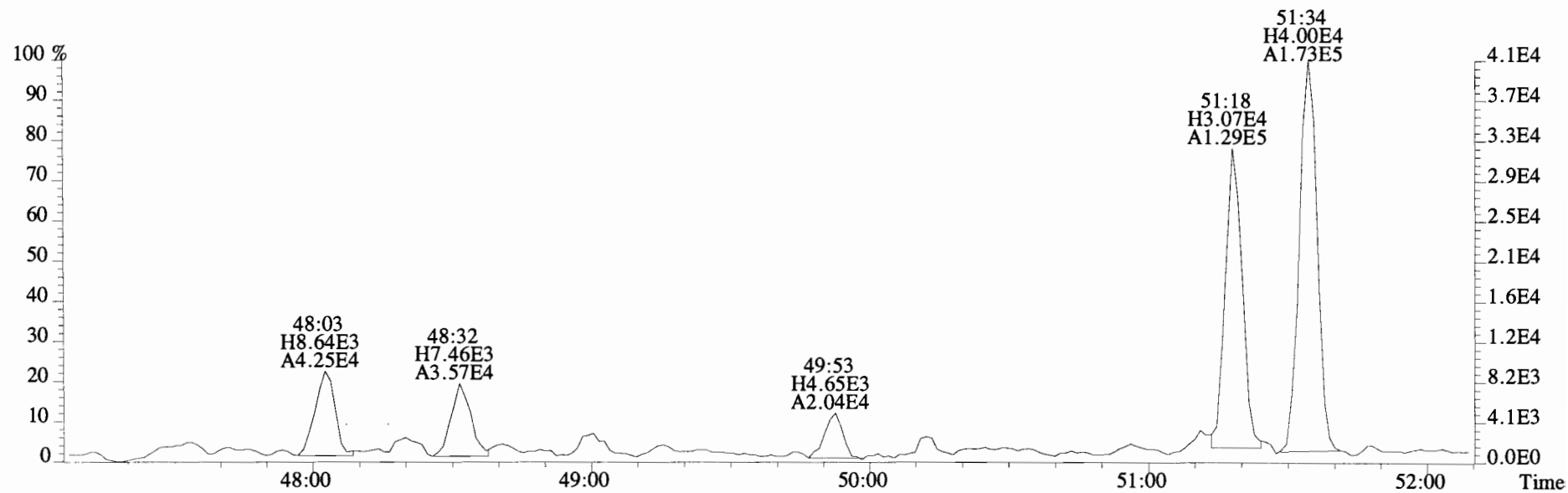
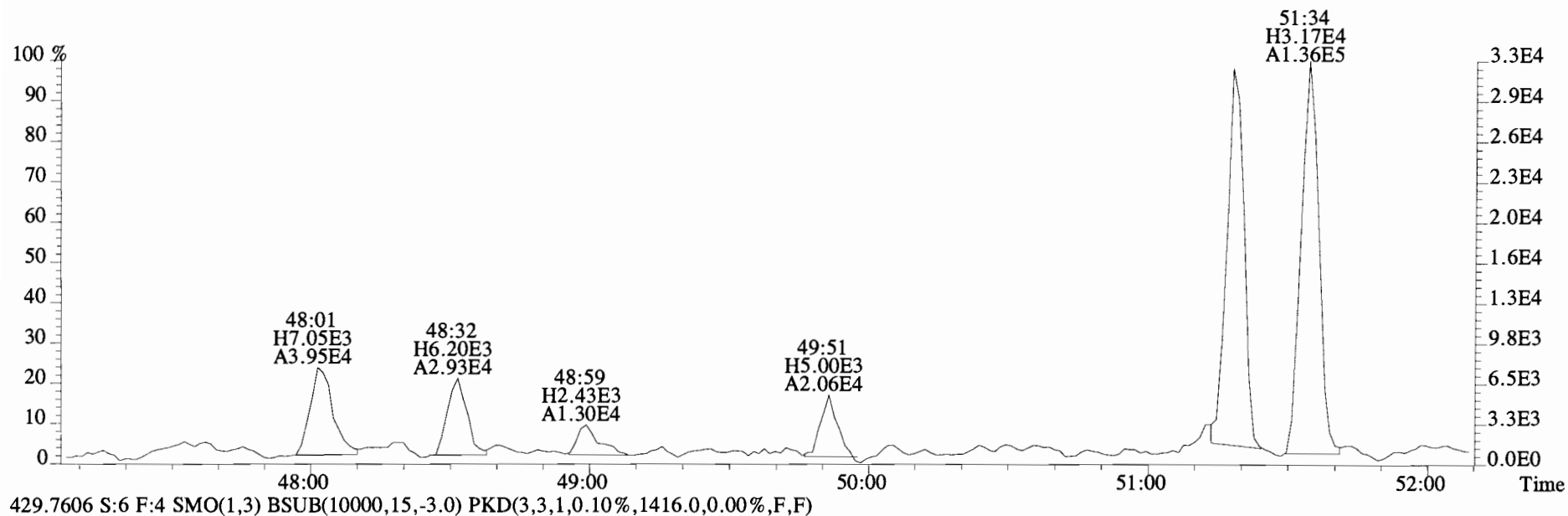
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1424.0,0.00%,F,F)



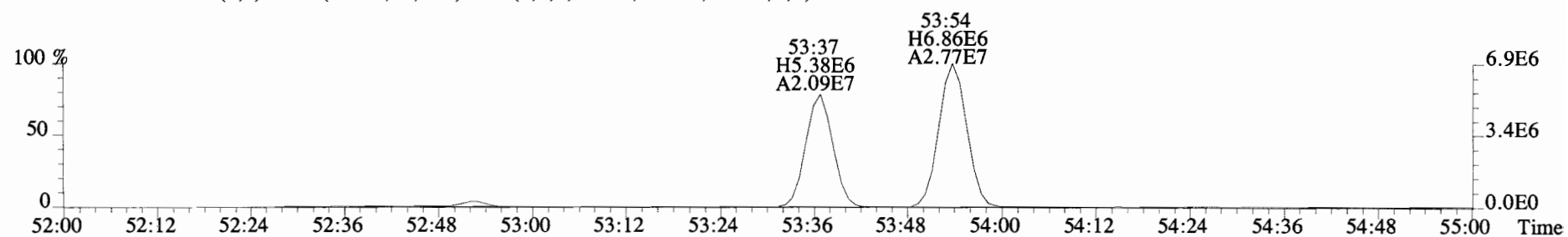
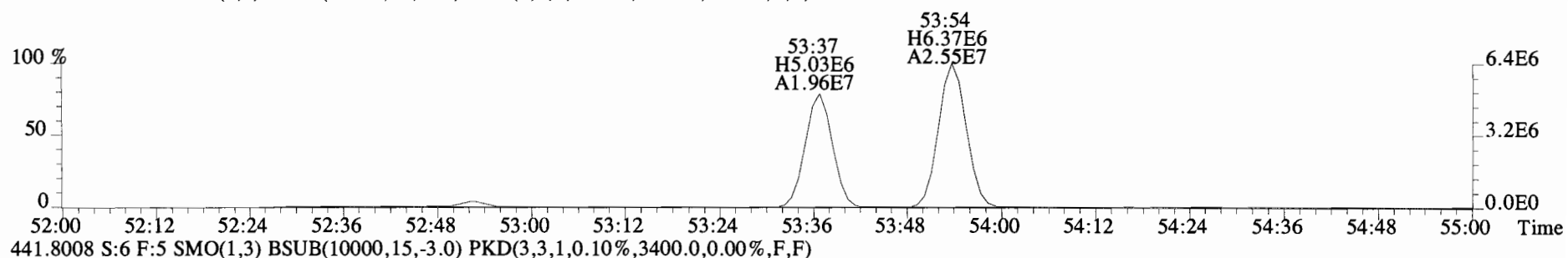
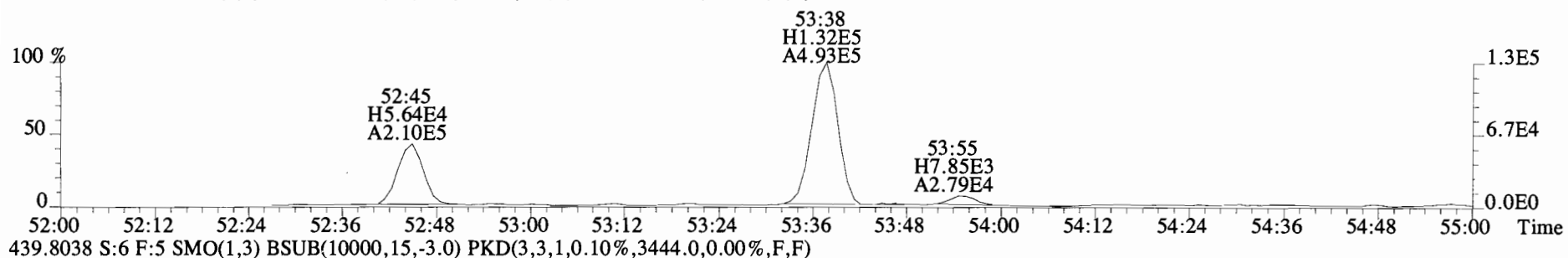
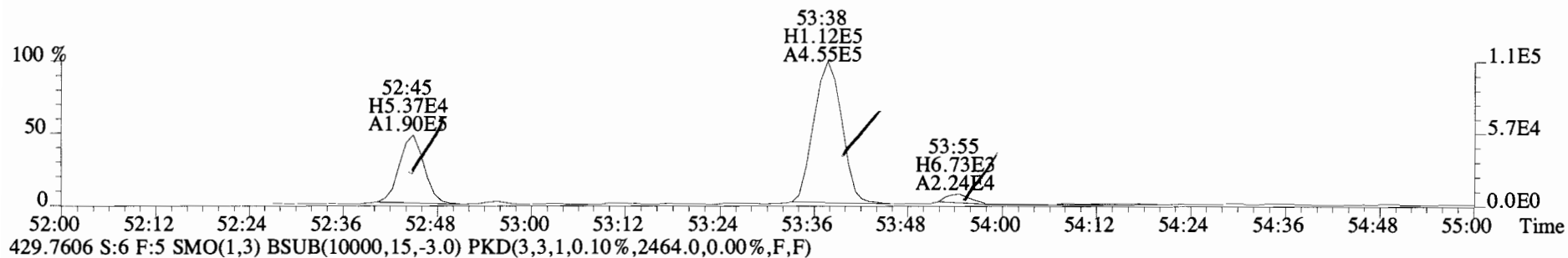
File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



File:140910E2 #1-557 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)

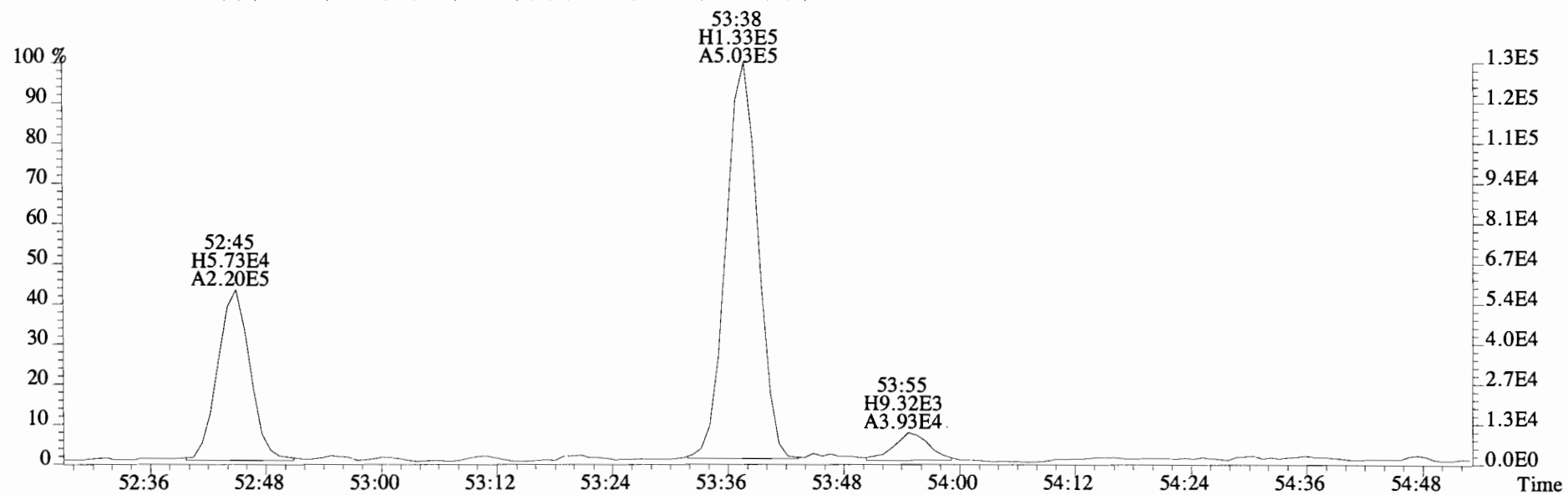
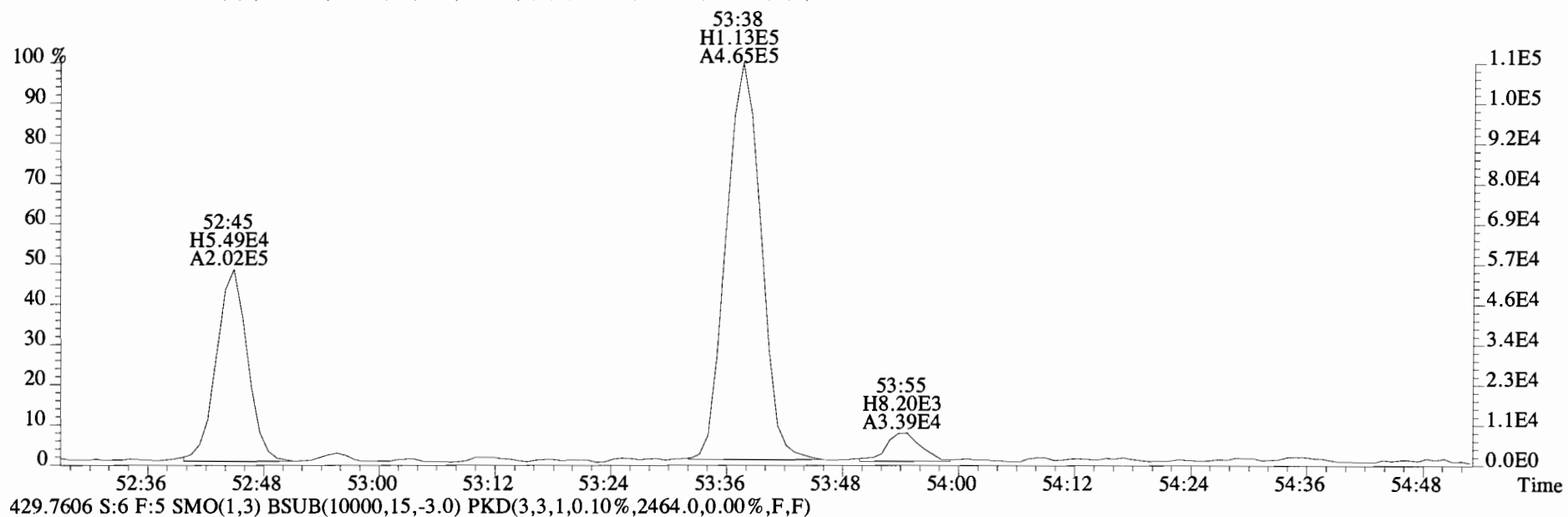


File:140910E2 #1-441 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)

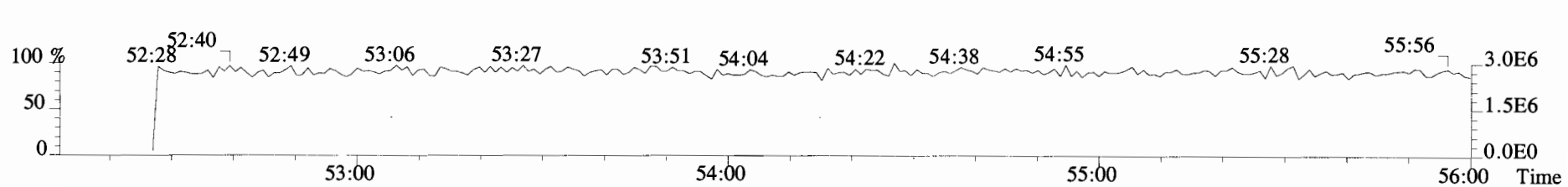
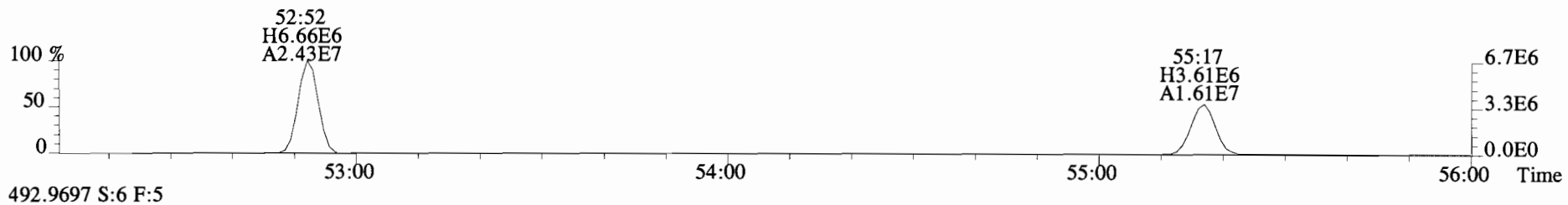
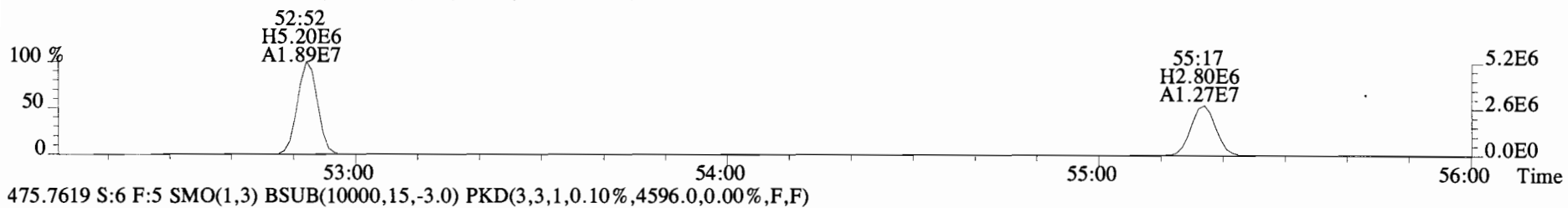
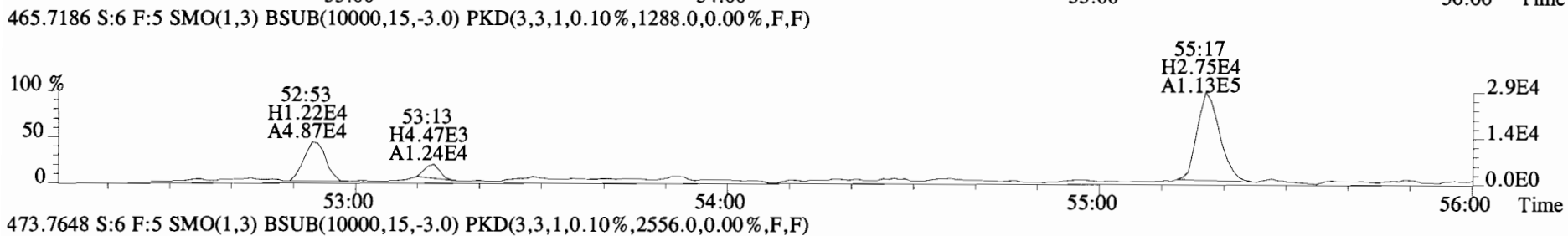
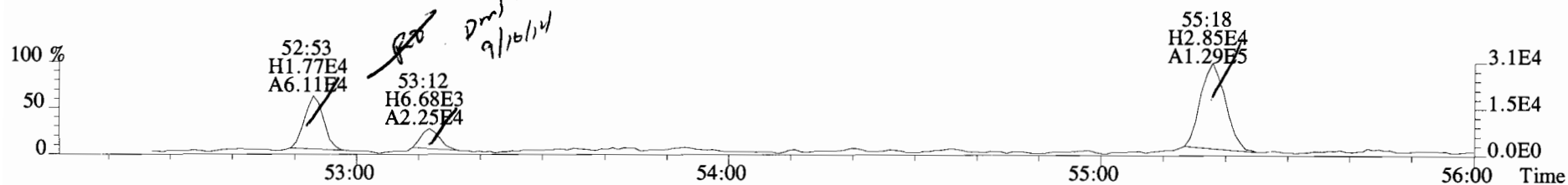




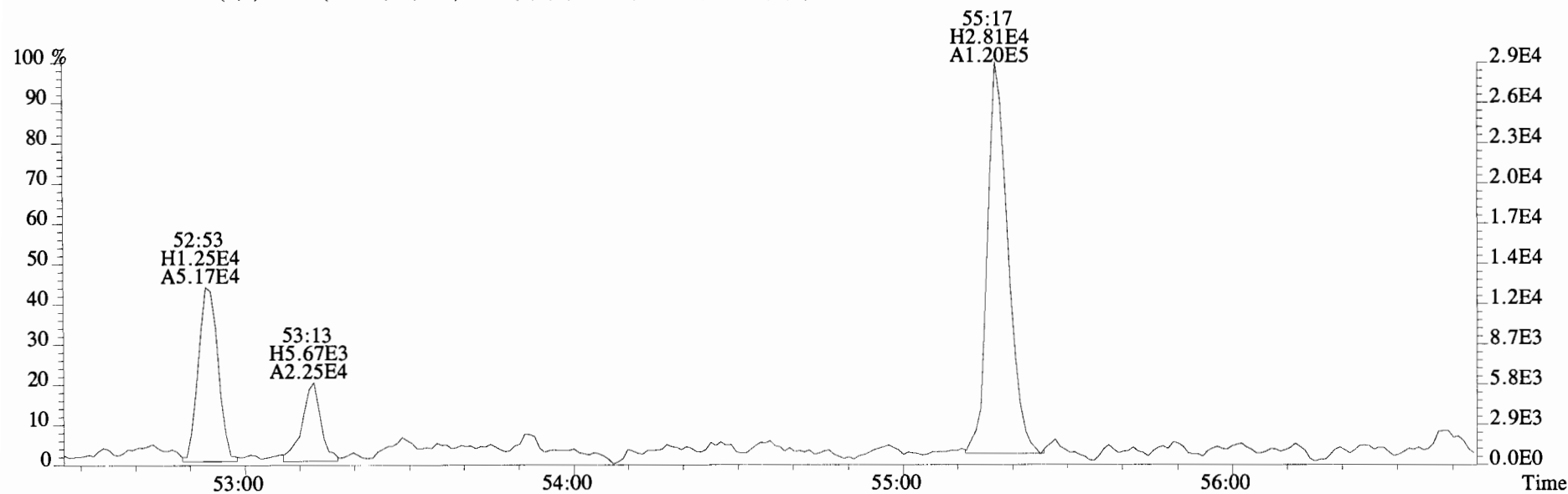
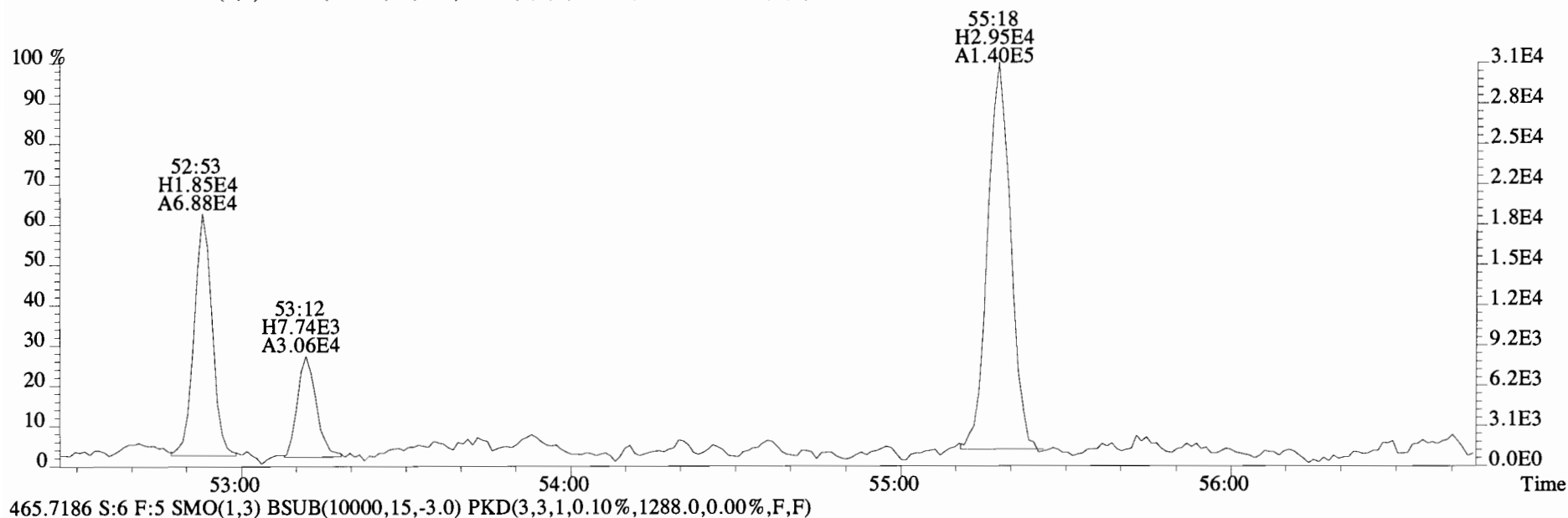
File:140910E2 #1-441 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



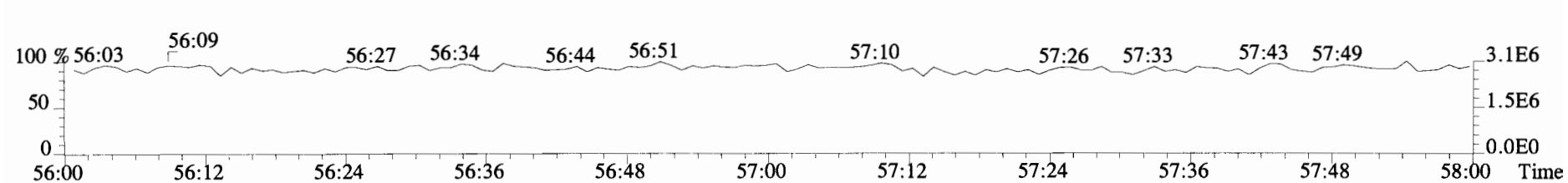
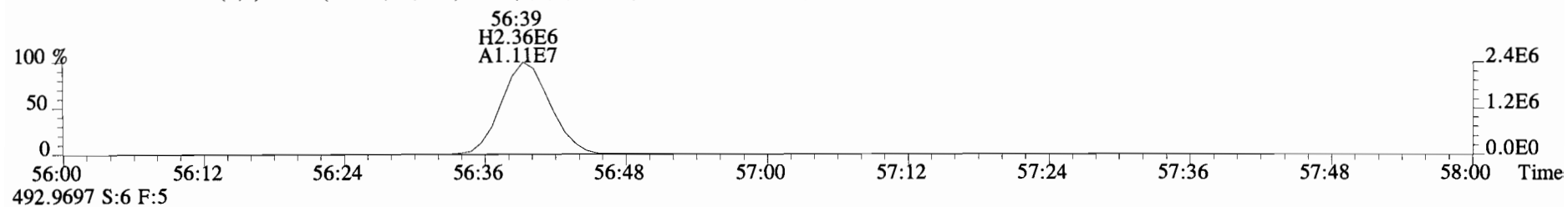
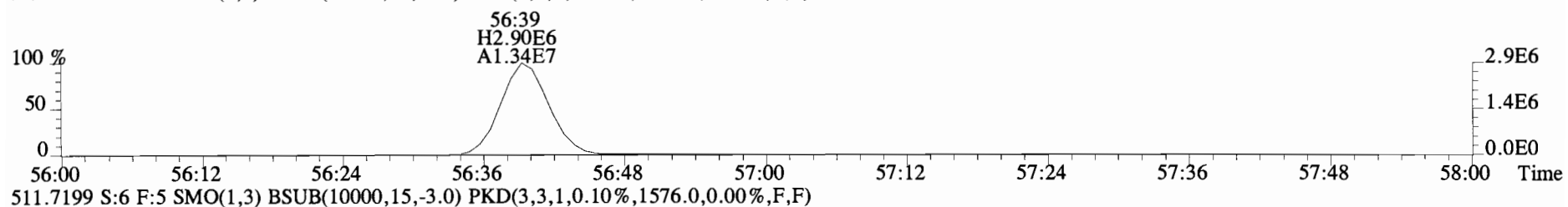
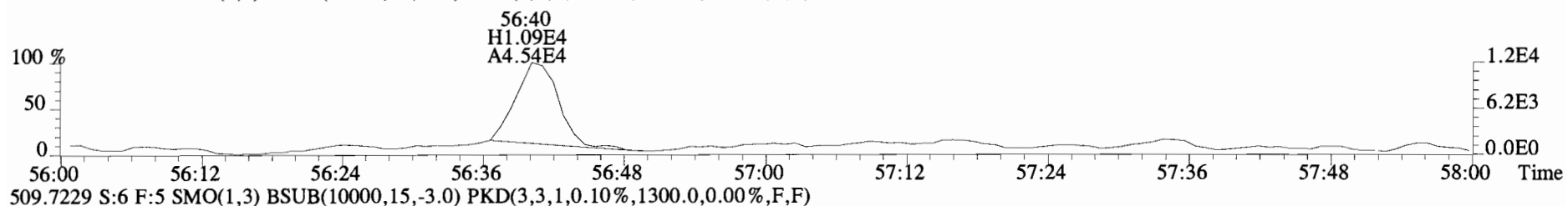
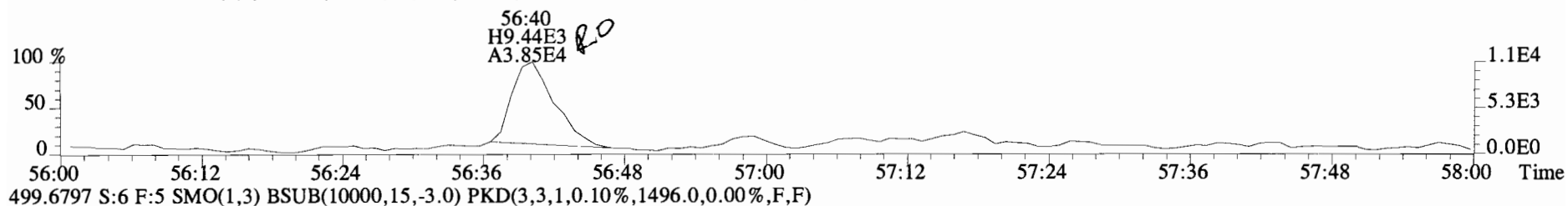
File:140910E2 #1-441 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1556.0,0.00%,F,F)



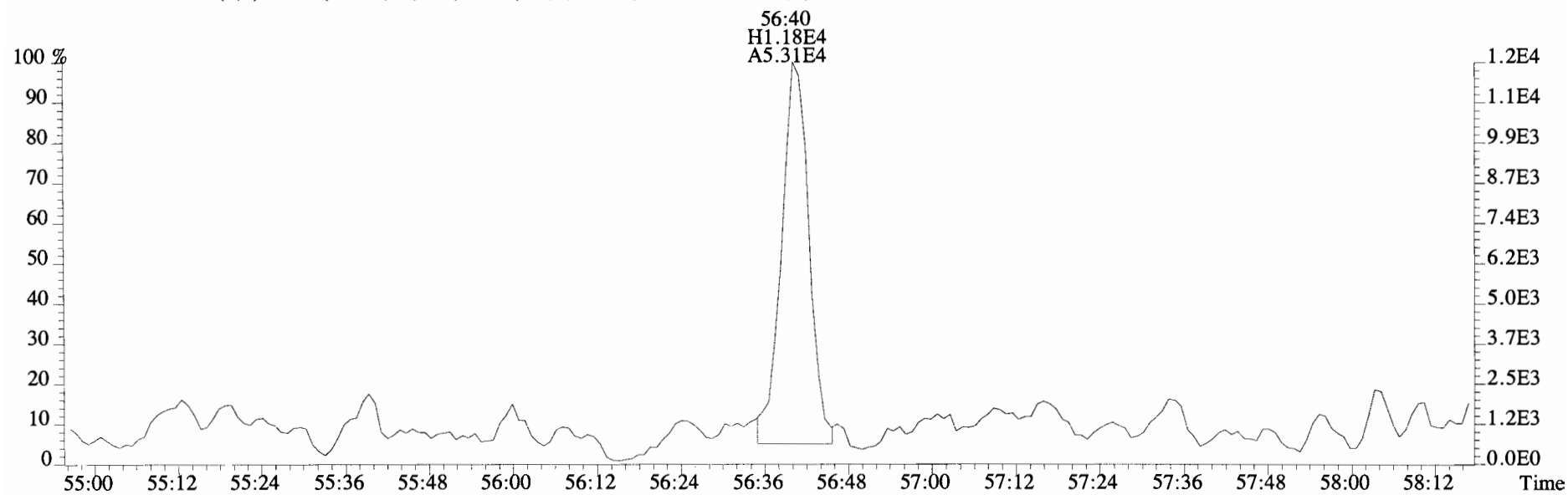
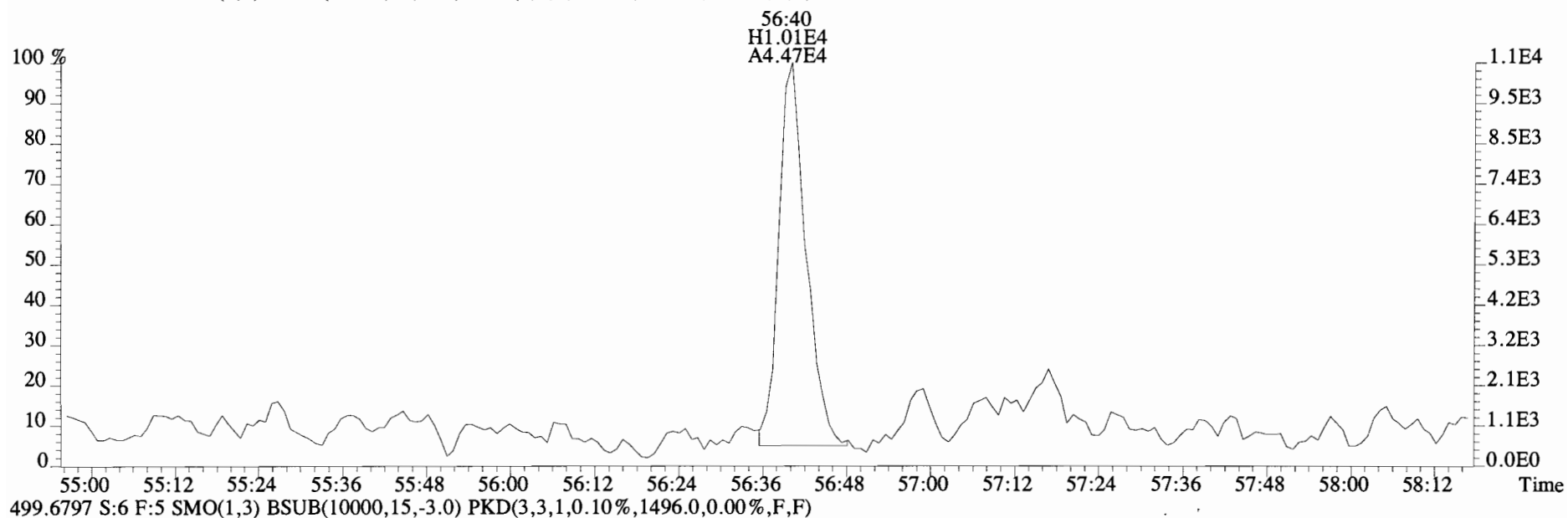
File:140910E2 #1-441 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1556.0,0.00%,F,F)



File:140910E2 #1-441 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1316.0,0.00%,F,F)



File:140910E2 #1-441 Acq:11-SEP-2014 05:21:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02 CS-TS-01-20140903-W 0.93375 Exp:PCB\_ZB1  
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1316.0,0.00%,F,F)



Client ID: CS-TS-01-20140903-W  
Lab ID: 1400647-02RE1 DL 1:5

Filename: 140911E1  
GC Column ID: ZB-1

S:10 Acq:11-SEP-14 23:55:50  
ICal: PCBVG8-6-20-14 wt/vol: 0.934

ConCal: ST140911E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	* n	NotFη	1.19	*		*	2.5	*	*	0.996-1.006	
Penta	PCB-113	*	* n	NotFη	1.35	*		*	2.5	*	*	1.002-1.012	
Penta	PCB-99	*	* n	NotFη	1.29	*		*	2.5	*	*	1.005-1.015	
Penta	PCB-119	*	* n	NotFη	1.72	*		*	2.5	*	*	0.982-0.992	
Penta	PCB-108/112	*	* n	NotFη	1.29	*		*	2.5	*	*	0.986-0.996	
Penta	PCB-83	*	* n	NotFη	1.52	*		*	2.5	*	*	0.991-1.001	
Penta	PCB-97	*	* n	NotFη	1.25	*		*	2.5	*	*	0.996-1.006	
Penta	PCB-86	*	* n	NotFη	1.02	*		*	2.5	*	*	1.000-1.010	
Penta	PCB-87/117/125	*	* n	NotFη	1.56	*		*	2.5	*	*	1.002-1.012	
Penta	PCB-111/115	*	* n	NotFη	1.75	*		*	2.5	*	*	1.007-1.017	
Penta	PCB-85/116	*	* n	NotFη	1.30	*		*	2.5	*	*	1.010-1.020	
Penta	PCB-120	*	* n	NotFη	1.78	*		*	2.5	*	*	1.016-1.026	
Penta	PCB-110	*	* n	NotFη	1.68	*		*	2.5	*	*	1.020-1.030	
Penta	PCB-82	*	* n	NotFη	0.74	*		*	2.5	*	*	0.972-0.982	
Penta	PCB-124	*	* n	NotFη	1.32	*		*	2.5	*	*	0.988-0.998	
Penta	PCB-107/109	*	* n	NotFη	1.22	*		*	2.5	*	*	0.991-1.001	
Penta	PCB-123	*	* n	NotFη	1.22	*		*	2.5	*	*	0.995-1.005	
Penta	PCB-106/118	*	* n	NotFη	1.22	*		*	2.5	*	*	0.996-1.006	
Penta	PCB-114	*	* n	NotFη	1.36	*		1980	2.5	5.93	*	0.995-1.005	
Penta	PCB-122	*	* n	NotFη	1.24	*		1980	2.5	6.50	*	0.999-1.009	
Penta	PCB-105	5.71e+05	1.68	y 42:47	1.28	57.4		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	* n	NotFη	1.14	*		1980	2.5	6.57	*	0.995-1.005	
Penta	PCB-126	3.35e+04	1.19	n 45:01	1.28	3.87	R	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	* n	NotFη	1.14	*		*	2.5	*	*	0.966-1.006	
Hexa	PCB-150	*	* n	NotFη	1.06	*		*	2.5	*	*	1.030-1.040	
Hexa	PCB-152	*	* n	NotFη	1.10	*		*	2.5	*	*	1.043-1.053	
Hexa	PCB-145	*	* n	NotFη	1.09	*		*	2.5	*	*	1.055-1.065	
Hexa	PCB-136	*	* n	NotFη	1.08	*		*	2.5	*	*	1.064-1.074	
Hexa	PCB-148	*	* n	NotFη	0.74	*		*	2.5	*	*	1.066-1.076	
Hexa	PCB-154	*	* n	NotFη	0.88	*		*	2.5	*	*	1.079-1.089	
Hexa	PCB-151	*	* n	NotFη	0.81	*		*	2.5	*	*	1.097-1.107	
Hexa	PCB-135	*	* n	NotFη	0.78	*		*	2.5	*	*	1.101-1.113	
Hexa	PCB-144	*	* n	NotFη	0.82	*		*	2.5	*	*	1.105-1.116	
Hexa	PCB-147	*	* n	NotFη	0.83	*		*	2.5	*	*	1.011-1.120	
Hexa	PCB-139/149	*	* n	NotFη	0.84	*		*	2.5	*	*	1.115-1.127	
Hexa	PCB-140	*	* n	NotFη	0.79	*		*	2.5	*	*	1.120-1.132	
Hexa	PCB-134/143	*	* n	NotFη	0.93	*		*	2.5	*	*	0.970-0.980	

Analyst: *DMS*

Date: *9/16/14*

*WZ*  
*9/17/14*

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	5.71e+05	1.68 y	42:47	1.26	57.3768	Sum:57.3768
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:61.2477280000

Integrations

by  
Analyst: DMS

Date: 9/16/14

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	2.67e+07	3.34	y	0.89	16:12	0.628	0.622-0.628	1790	83.7											
13C-PCB-3	2.67e+07	3.45	y	0.93	18:44	0.726	0.721-0.729	1720	80.5		13C-PCB-79	1.91e+07	0.82	y	1.01	37:33	1.028	1.023-1.033	2190	102
13C-PCB-4	1.75e+07	1.65	y	0.55	20:03	0.777	0.772-0.780	1920	89.4		13C-PCB-178	4.52e+06	0.43	y	0.63	45:21	0.985	0.979-0.989	1630	76.1
13C-PCB-9	2.83e+07	1.64	y	0.83	21:47	0.844	0.840-0.848	2050	95.7											
13C-PCB-11	3.29e+07	1.62	y	0.94	25:06	0.973	0.968-0.978	2100	97.9											
13C-PCB-19	1.39e+07	1.12	y	0.53	24:07	0.935	0.929-0.939	1560	72.7											
13C-PCB-28	2.60e+07	1.10	y	0.89	28:54	1.003	0.999-1.009	1820	85.1		13C-PCB-79	1.91e+07	0.82	y	1.20	37:33	0.969	0.963-0.973	2530	118
13C-PCB-32	2.07e+07	1.09	y	0.81	26:59	1.046	1.041-1.051	1520	71.1		13C-PCB-178	4.52e+06	0.43	y	0.94	45:21	0.925	0.920-0.930	3130	146
13C-PCB-37	2.36e+07	1.06	y	0.83	32:45	1.137	1.131-1.143	1770	82.5											
13C-PCB-47	1.40e+07	0.78	y	0.74	31:48	0.871	0.867-0.875	2170	102											
13C-PCB-52	1.38e+07	0.76	y	0.71	31:17	0.857	0.853-0.861	2250	105											
13C-PCB-54	1.85e+07	0.79	y	0.85	27:48	0.761	0.758-0.766	2510	117											
13C-PCB-70	1.63e+07	0.80	y	0.94	35:16	0.966	0.961-0.971	1990	92.8											
13C-PCB-77	1.43e+07	0.80	y	0.89	39:22	1.078	1.073-1.083	1850	86.3											
13C-PCB-80	1.77e+07	0.79	y	0.96	35:41	0.977	0.972-0.982	2120	98.9											
13C-PCB-81	1.35e+07	0.78	y	0.84	38:46	1.062	1.057-1.067	1860	86.7											
13C-PCB-95	5.44e+06	1.69	y	0.74	35:34	0.913	0.908-0.918	2150	101											
13C-PCB-97	4.92e+06	1.67	y	0.69	38:32	0.989	0.984-0.994	2100	98.0											
13C-PCB-101	5.63e+06	1.70	y	0.79	37:14	0.956	0.951-0.961	2110	98.5											
13C-PCB-104	8.15e+06	1.59	y	1.00	32:26	0.832	0.829-0.837	2410	112		13C-PCB-15	3.58e+07	1.62	y	1.00	25:48			2140	
13C-PCB-105	1.66e+07	1.56	y	1.24	42:47	0.929	0.924-0.934	3050	142		13C-PCB-31	3.44e+07	1.08	y	1.00	28:48			2140	
13C-PCB-114	1.64e+07	1.64	y	1.21	41:55	0.910	0.905-0.915	3080	144		13C-PCB-60	1.86e+07	0.78	y	1.00	36:31			2140	
13C-PCB-118	6.18e+06	1.70	y	0.98	41:16	1.059	1.054-1.064	1850	86.2		13C-PCB-111	7.28e+06	1.65	y	1.00	38:58			2140	
13C-PCB-123	6.07e+06	1.61	y	0.95	41:05	1.054	1.049-1.059	1880	87.8		13C-PCB-128	9.43e+06	1.25	y	1.00	46:03			2140	
13C-PCB-126	1.44e+07	1.60	y	1.16	45:01	0.978	0.972-0.982	2820	132		13C-PCB-205	1.09e+07	0.93	y	1.00	53:51			2140	
13C-PCB-127	1.75e+07	1.61	y	1.34	43:07	0.936	0.931-0.941	2960	138											
13C-PCB-138	9.59e+06	1.25	y	1.04	44:30	0.966	0.961-0.971	2090	97.5											
13C-PCB-141	1.05e+07	1.28	y	1.07	43:40	0.948	0.943-0.953	2220	104											
13C-PCB-153	1.10e+07	1.28	y	1.11	42:56	0.932	0.927-0.937	2250	105											
13C-PCB-155	4.01e+06	1.32	y	0.83	36:47	0.944	0.939-0.949	1420	66.2											
13C-PCB-156	1.08e+07	1.31	y	1.24	47:45	1.037	1.032-1.042	1980	92.4											
13C-PCB-157	1.10e+07	1.26	y	1.31	48:01	1.043	1.037-1.047	1910	89.3											
13C-PCB-159	1.09e+07	1.29	y	1.20	45:47	0.994	0.989-0.999	2060	96.2											
13C-PCB-167	1.16e+07	1.32	y	1.32	46:28	1.009	1.004-1.014	2000	93.4											
13C-PCB-169	7.91e+06	1.35	y	1.22	50:11	1.090	1.082-1.092	1480	69.0											
13C-PCB-170	2.56e+06	0.48	y	0.54	50:33	1.098	1.089-1.101	1080	50.6											
13C-PCB-180	3.30e+06	0.44	y	0.67	49:03	1.065	1.059-1.069	1110	52.0											
13C-PCB-188	6.23e+06	0.47	y	0.94	42:34	0.924	0.919-0.929	1510	70.6											
13C-PCB-189	3.11e+06	0.48	y	0.72	52:03	1.130	1.120-1.132	986	46.1											
13C-PCB-194	8.17e+06	0.93	y	0.81	53:34	0.995	0.990-1.000	1980	92.6											
13C-PCB-202	3.07e+06	0.94	y	0.83	47:58	1.042	1.036-1.046	837	39.1											
13C-PCB-206	4.92e+06	0.80	y	0.66	55:12	1.025	1.021-1.031	1470	68.7											
13C-PCB-208	8.08e+06	0.78	y	1.12	52:49	0.981	0.976-0.986	1420	66.1											
13C-PCB-209	3.55e+06	1.26	y	0.61	56:35	1.051	1.044-1.054	1140	53.1											

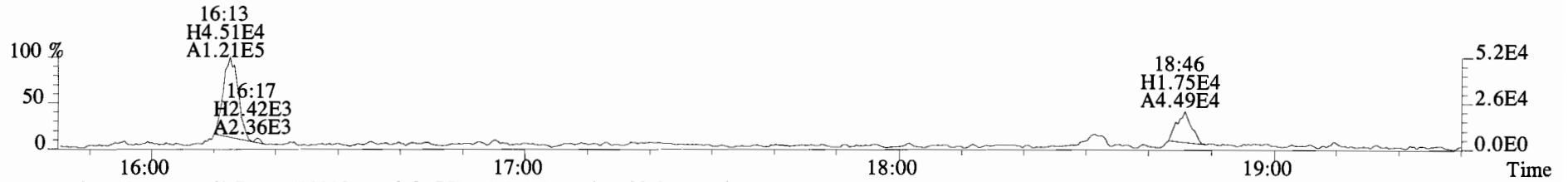
Analyst: DMS

\* = used only

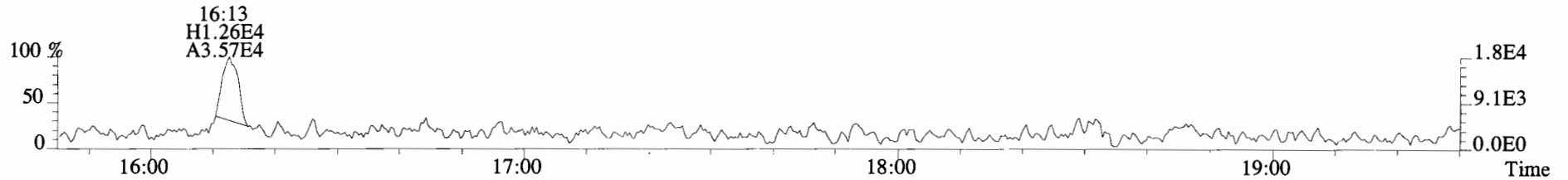
Date: 9/16/14



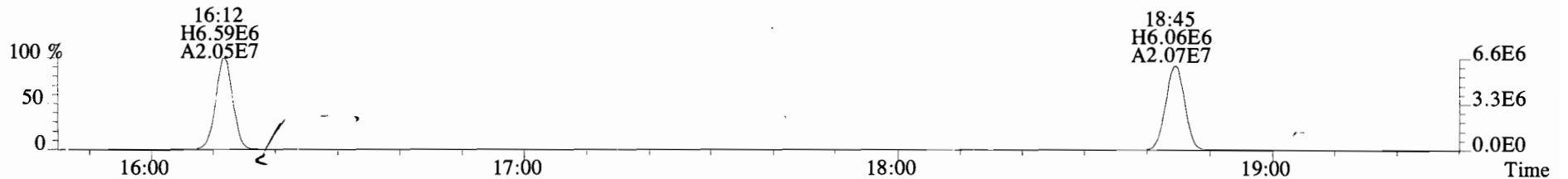
File:140911E1 #1-729 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
188.0393 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2804.0,0.00%,F,F)



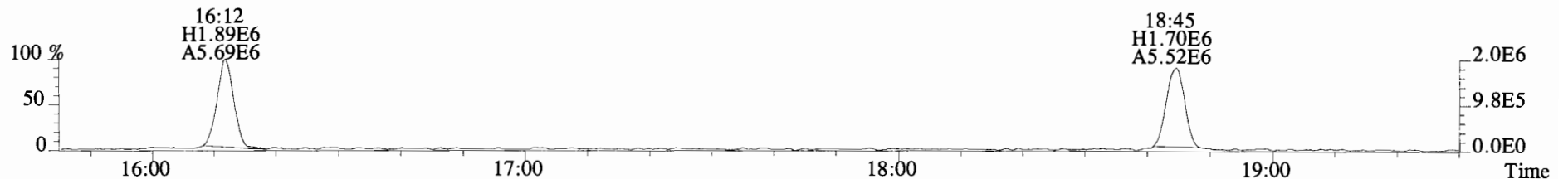
190.0363 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3720.0,0.00%,F,F)



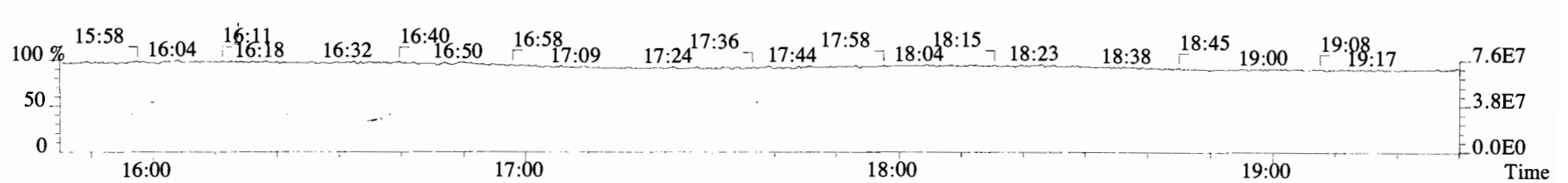
200.0795 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5312.0,0.00%,F,F)



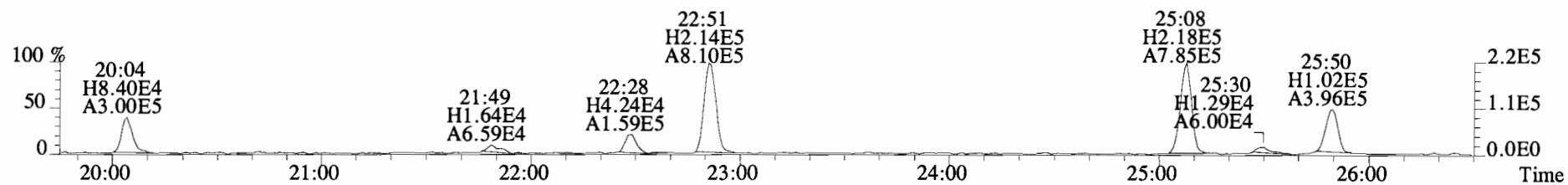
202.0766 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43652.0,0.00%,F,F)



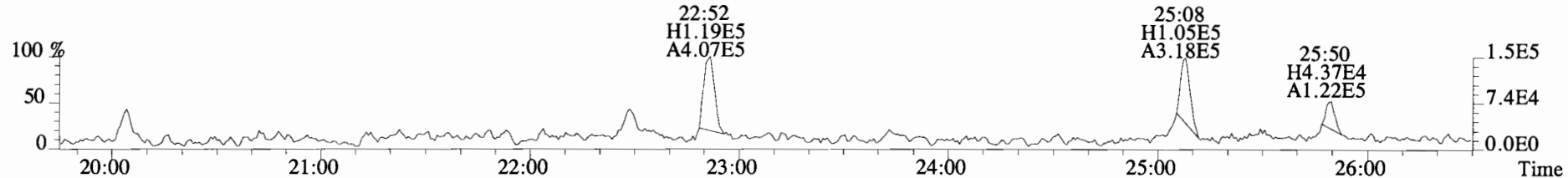
180.9880 S:10



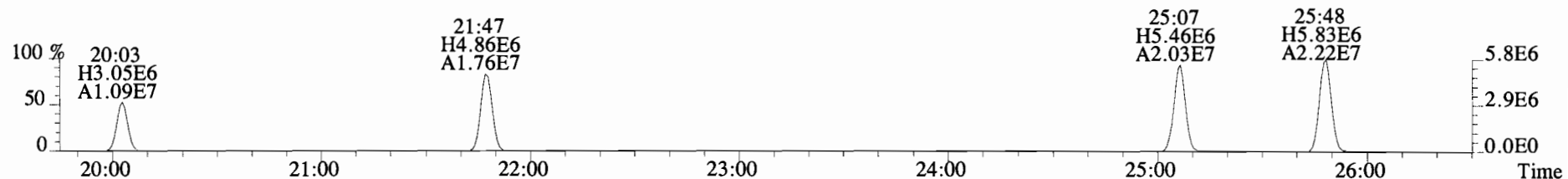
File:140911E1 #1-757 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
 222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4028.0,0.00%,F,F)



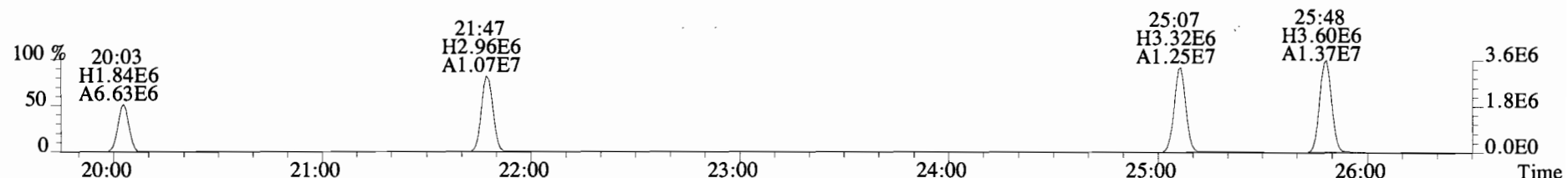
223.9974 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21308.0,0.00%,F,F)



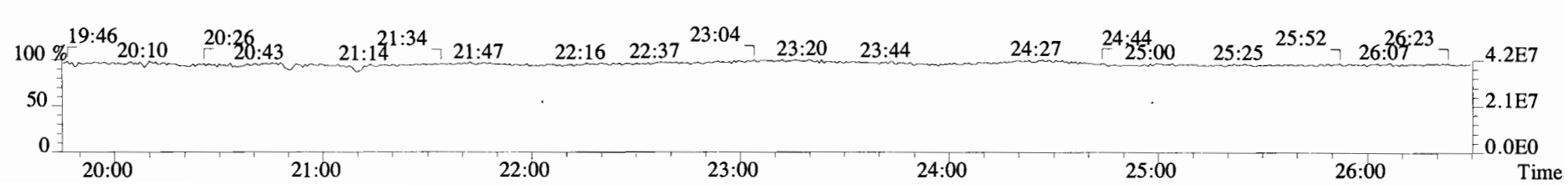
234.0406 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4176.0,0.00%,F,F)



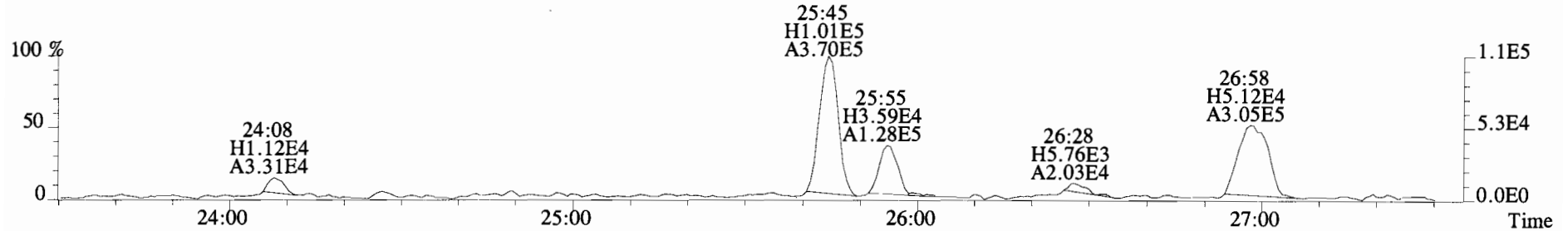
236.0376 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4432.0,0.00%,F,F)



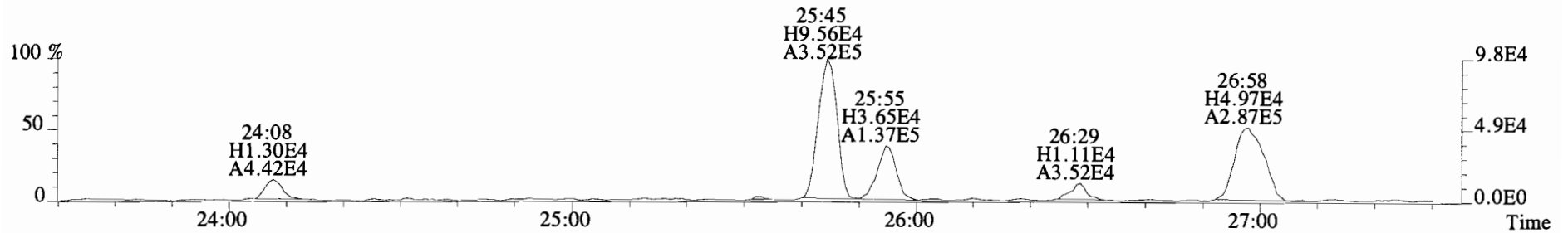
230.9856 S:10 F:2



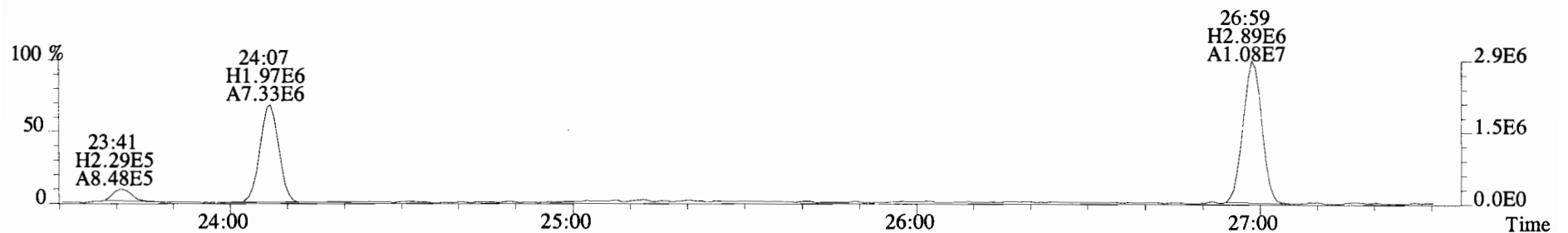
File:140911E1 #1-757 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
255.9613 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3664.0,0.00%,F,F)



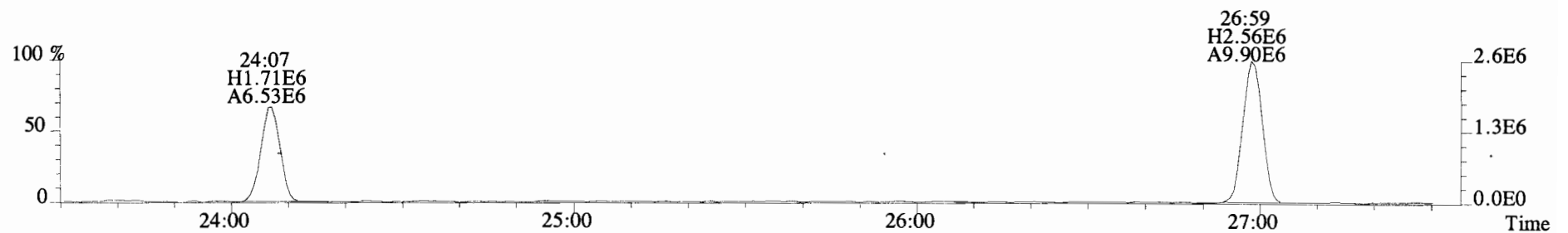
257.9584 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



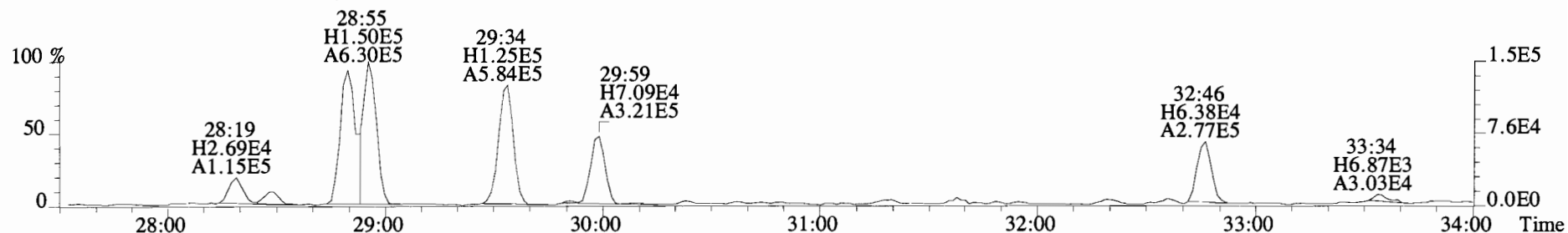
268.0016 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38960.0,0.00%,F,F)



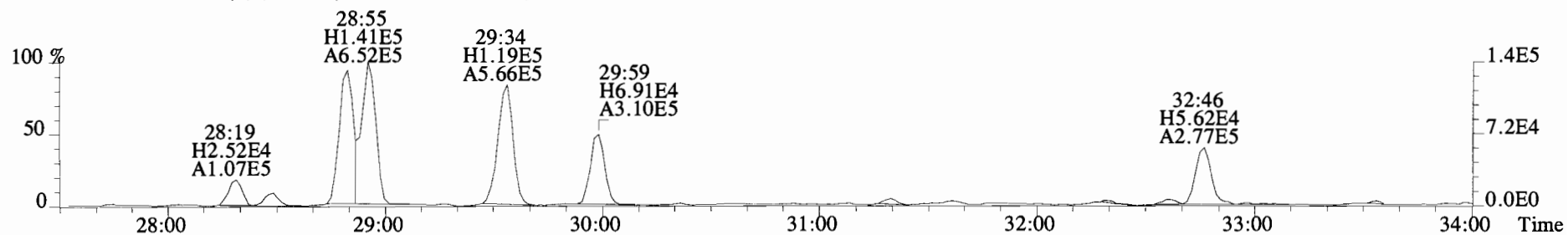
269.9986 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25224.0,0.00%,F,F)



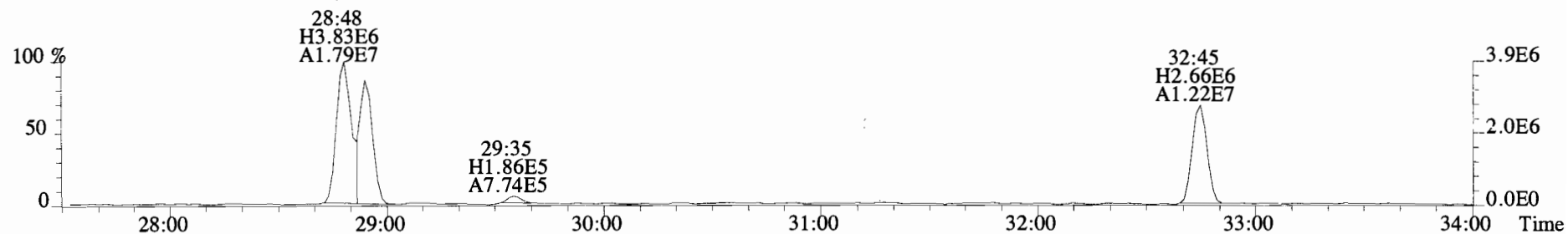
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3124.0,0.00%,F,F)



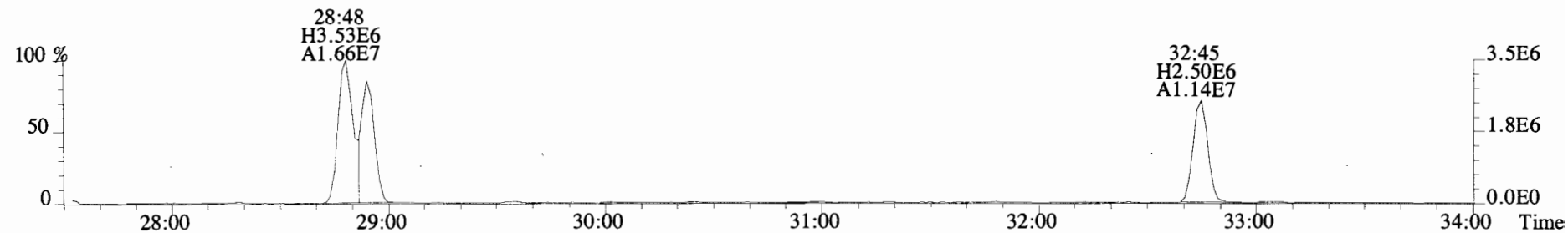
257.9584 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



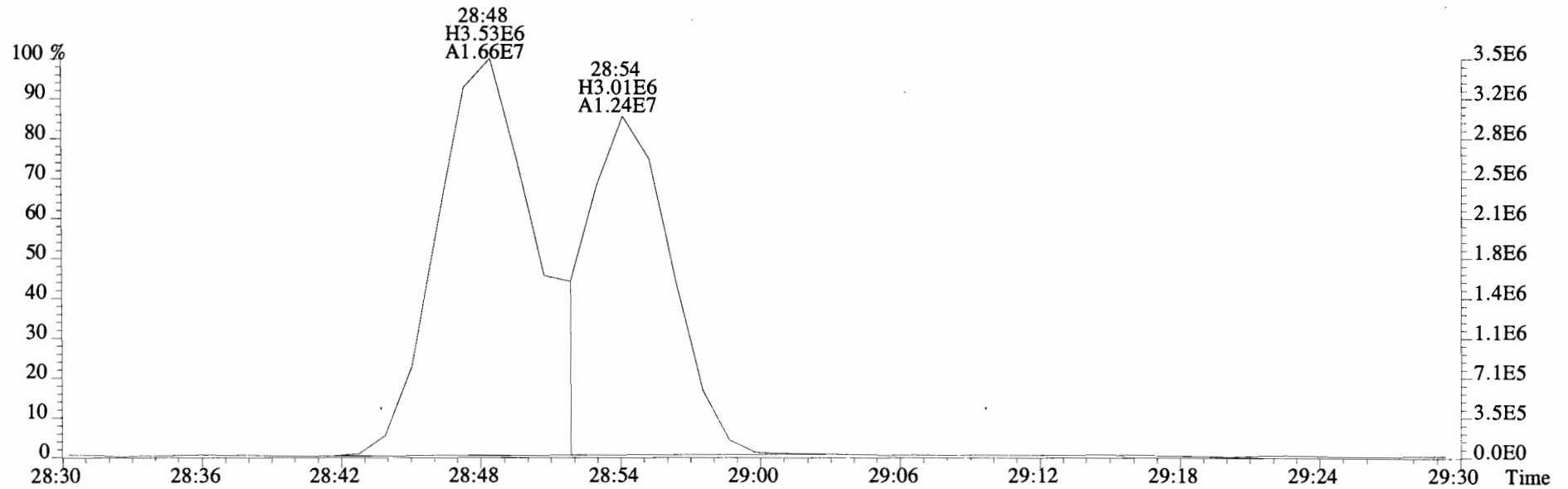
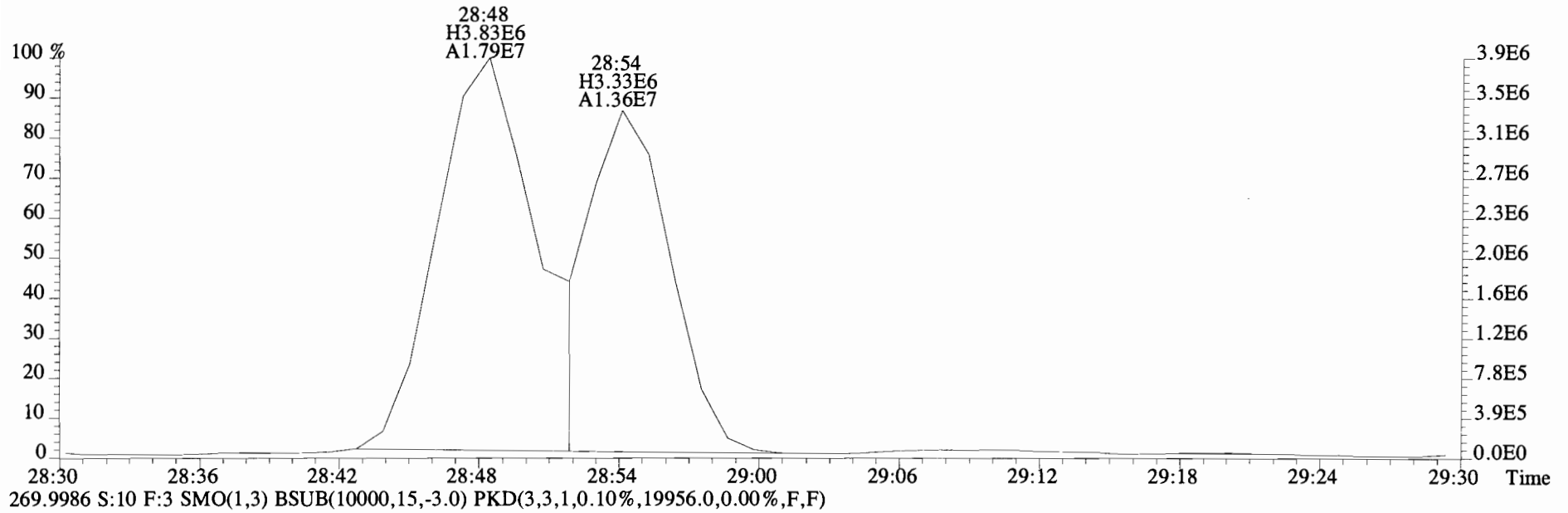
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55028.0,0.00%,F,F)



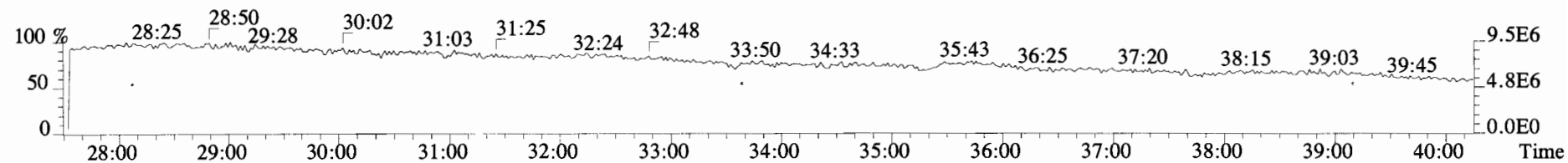
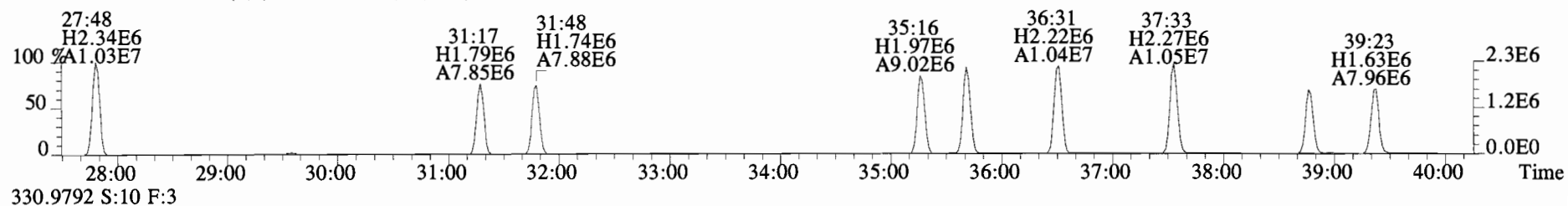
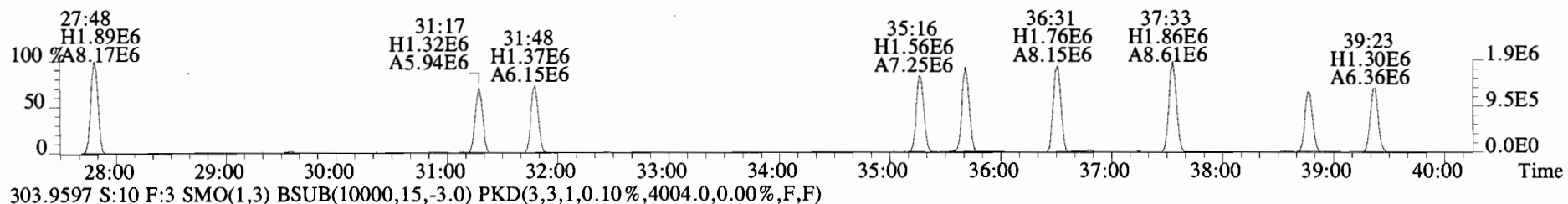
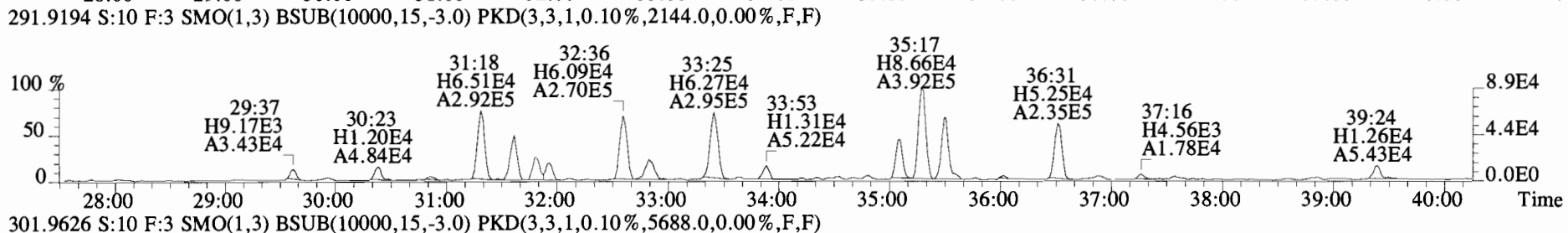
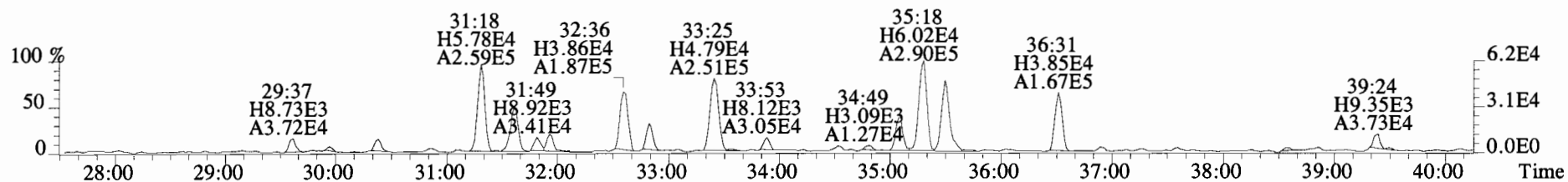
269.9986 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19956.0,0.00%,F,F)



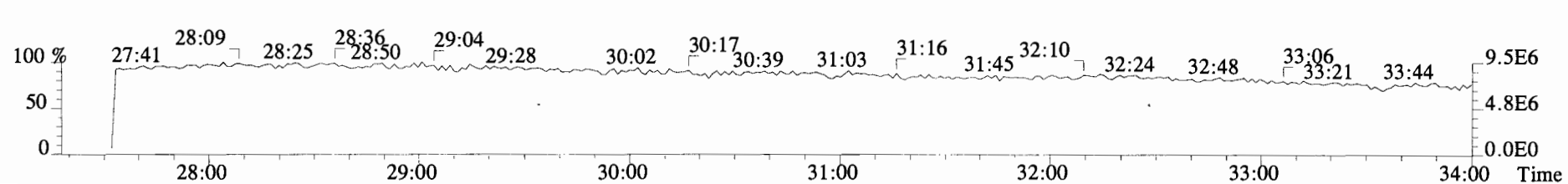
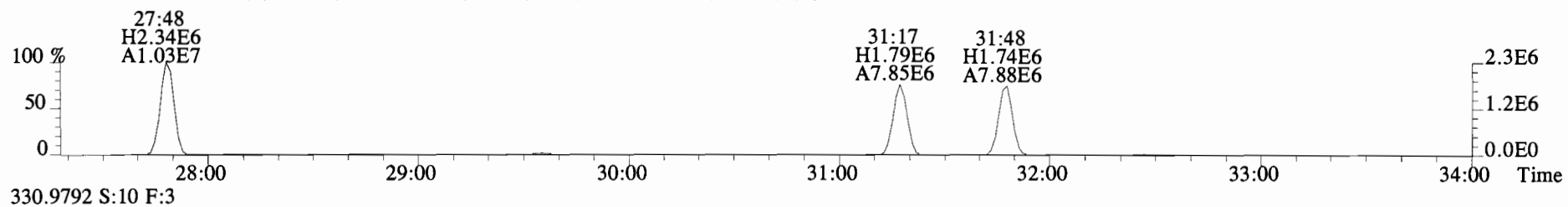
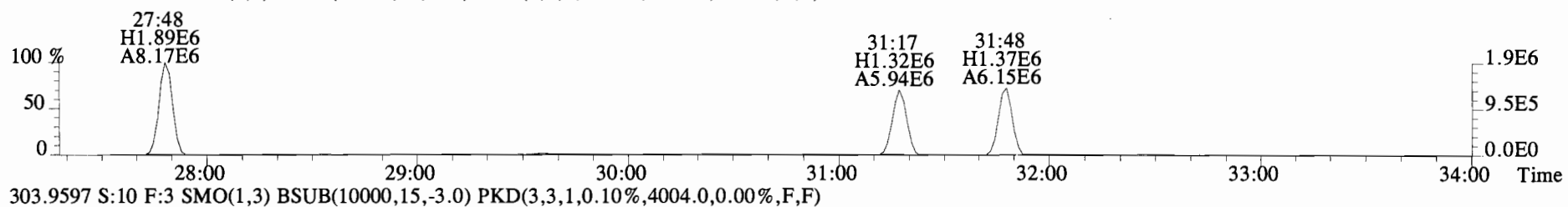
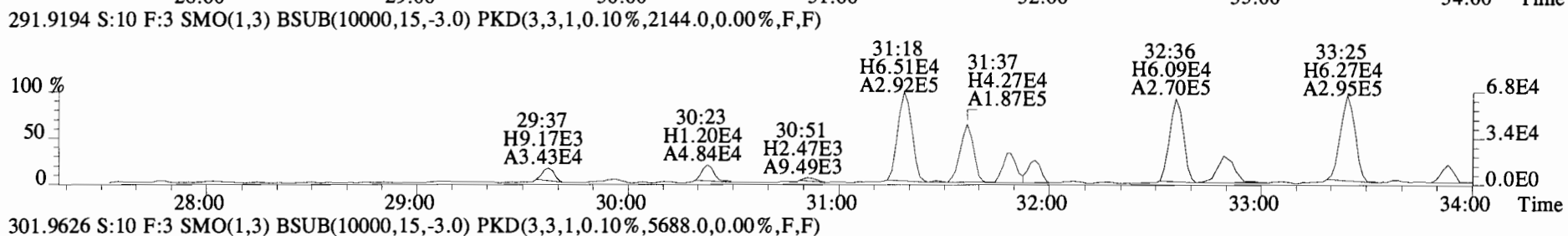
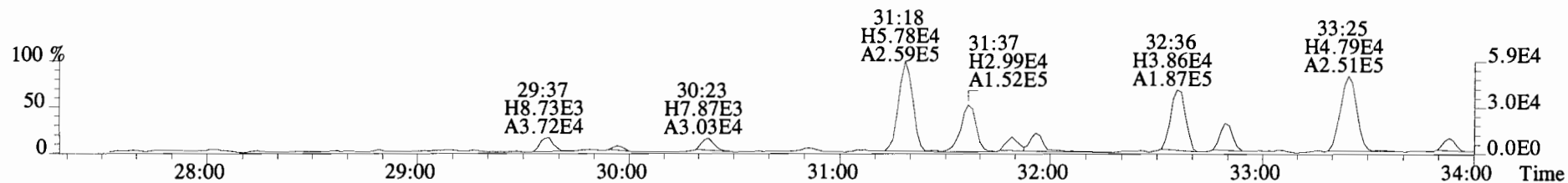
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55028.0,0.00%,F,F)



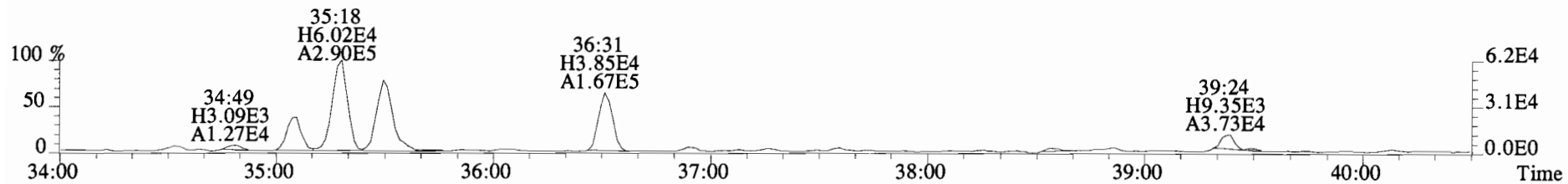
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



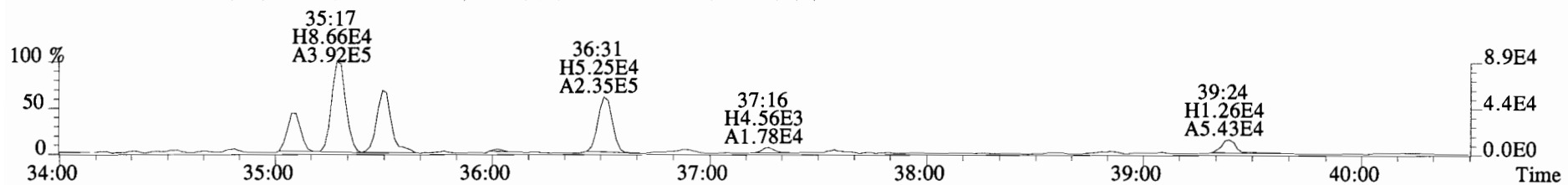
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



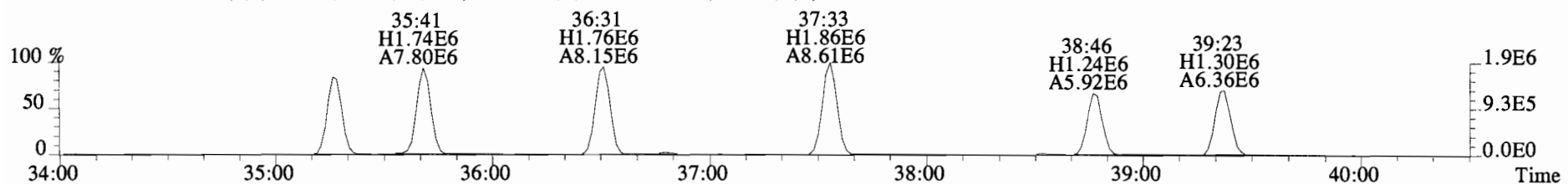
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



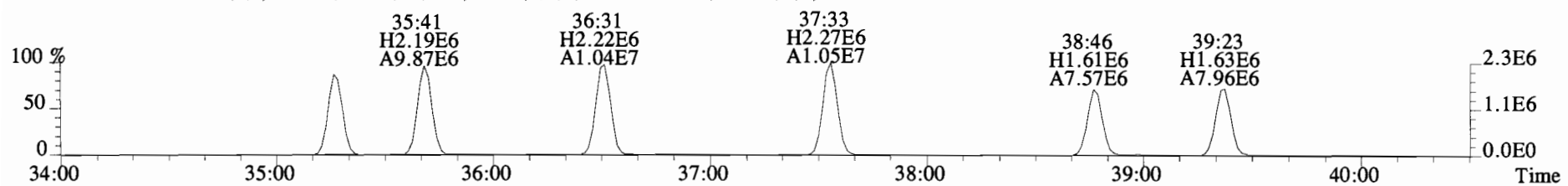
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



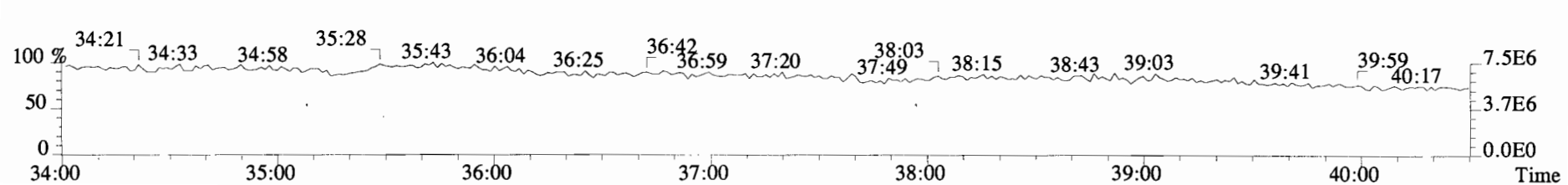
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5688.0,0.00%,F,F)



303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4004.0,0.00%,F,F)

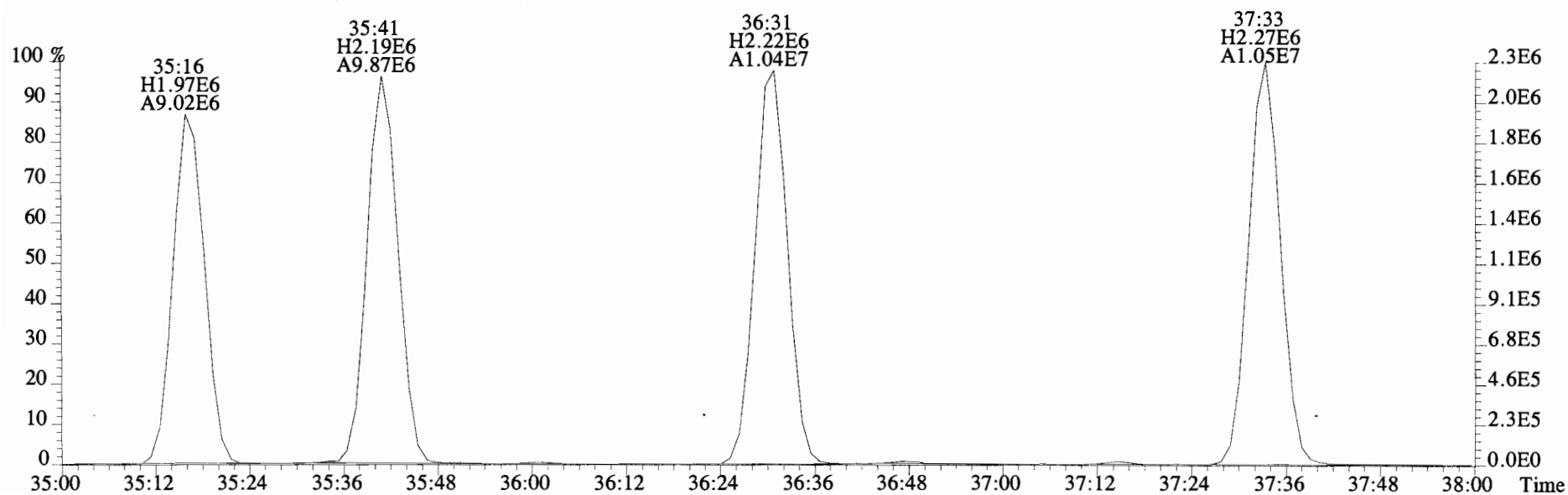
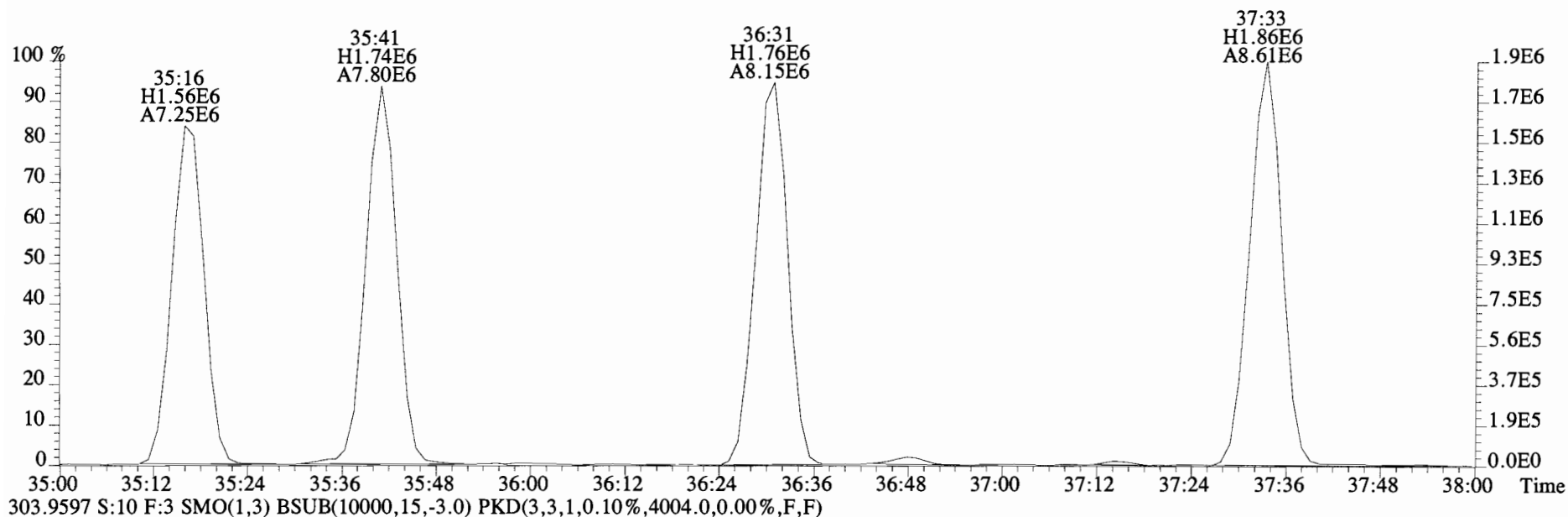


330.9792 S:10 F:3

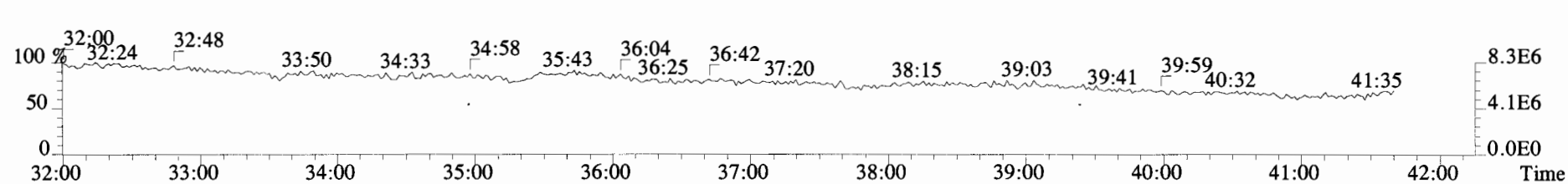
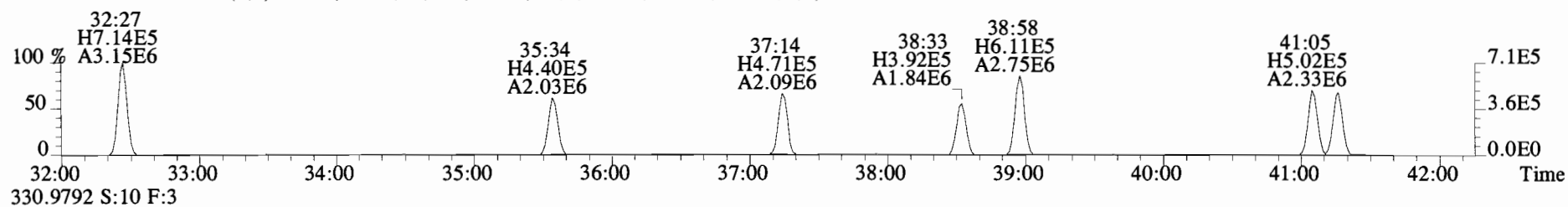
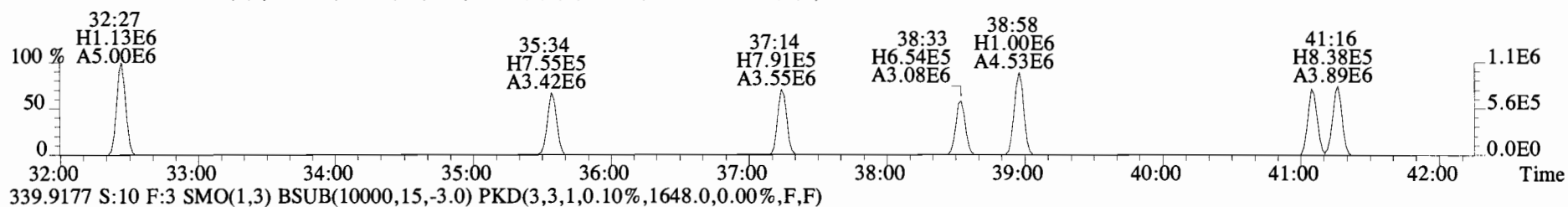
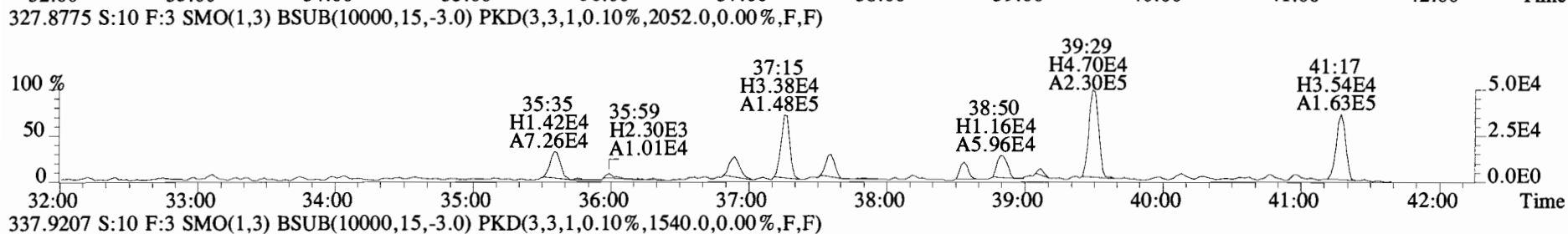
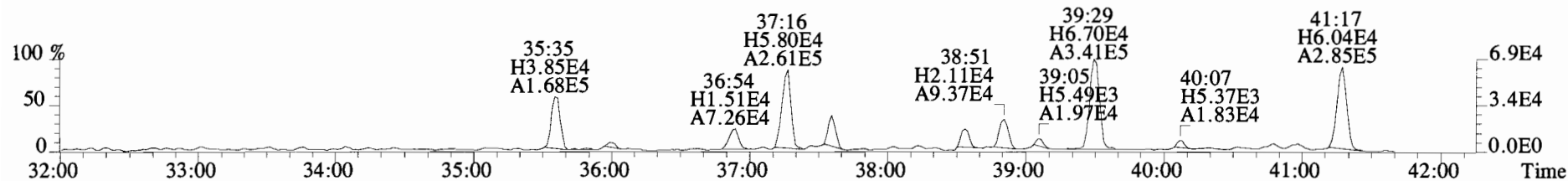




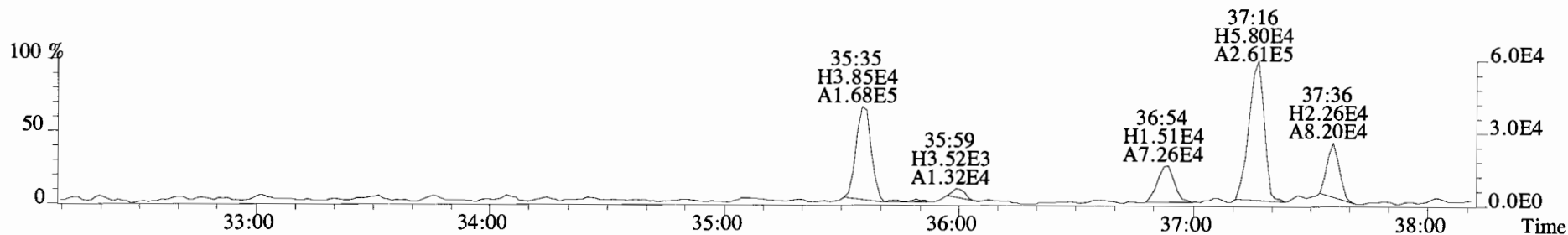
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5688.0,0.00%,F,F)



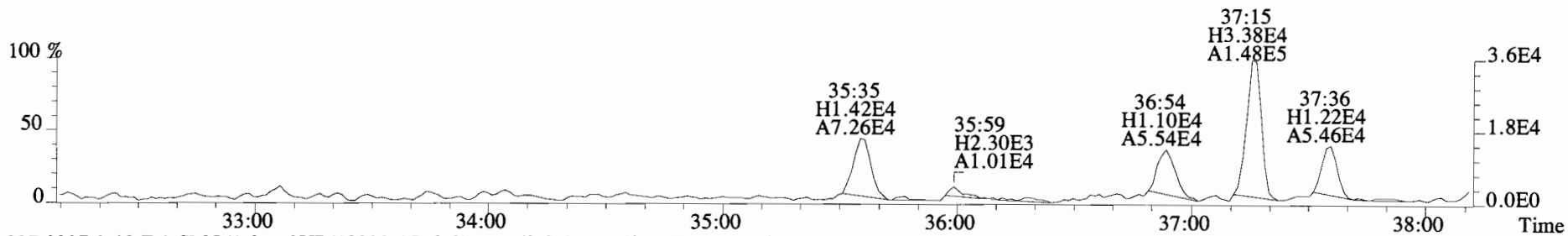
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
 325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



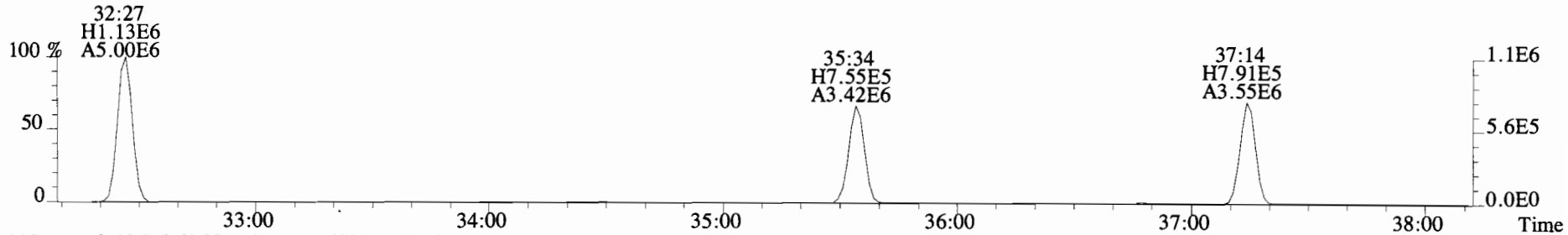
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



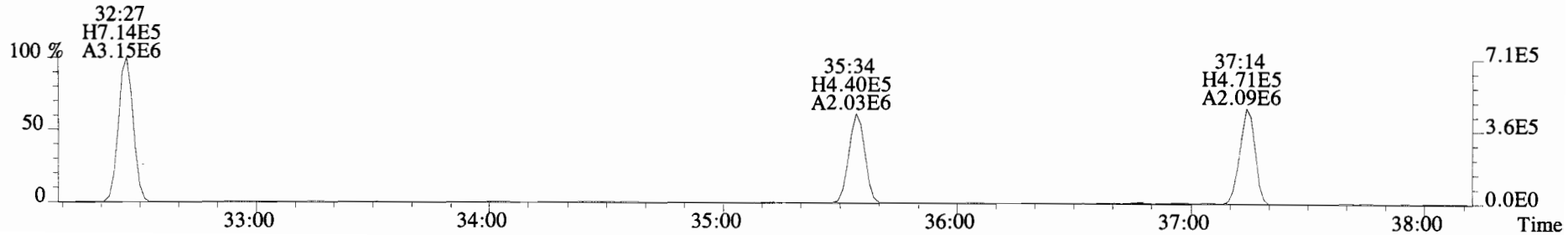
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



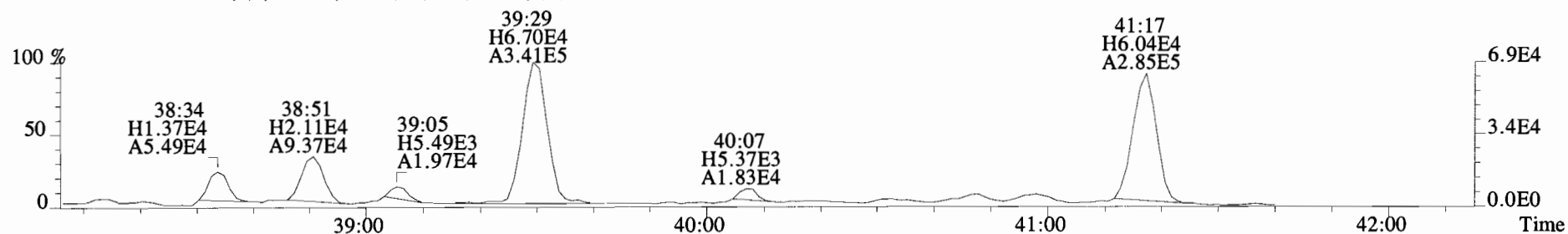
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



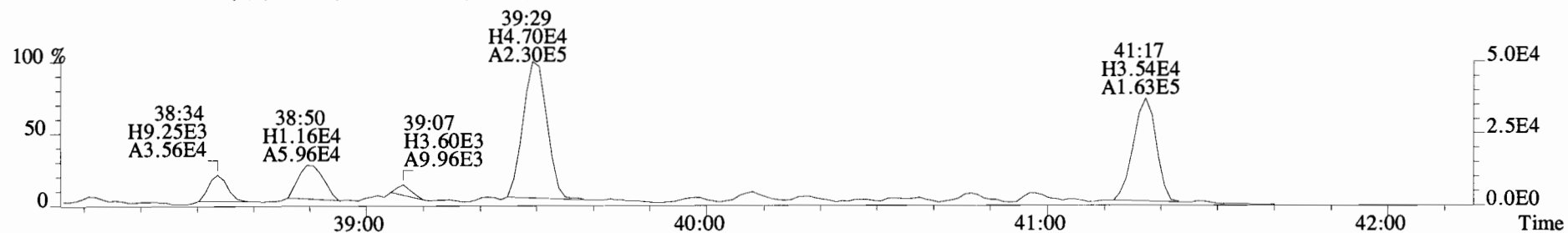
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



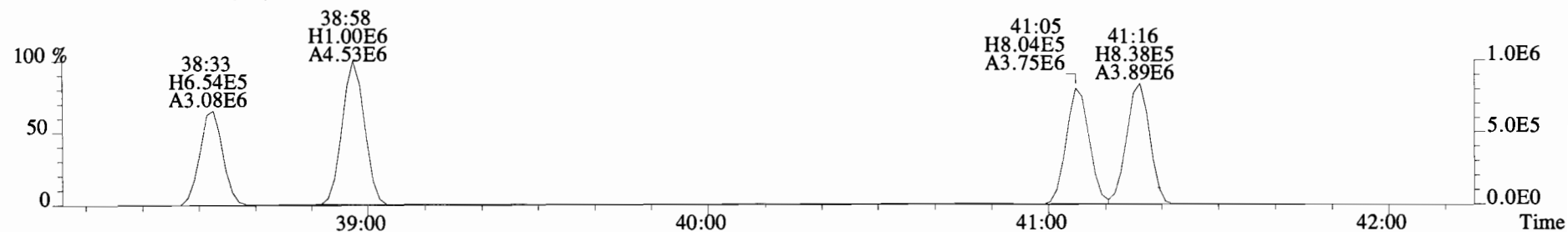
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
 325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



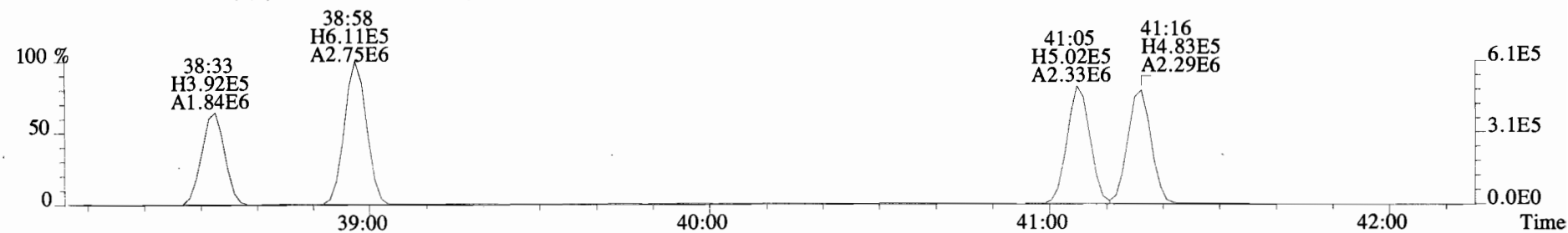
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



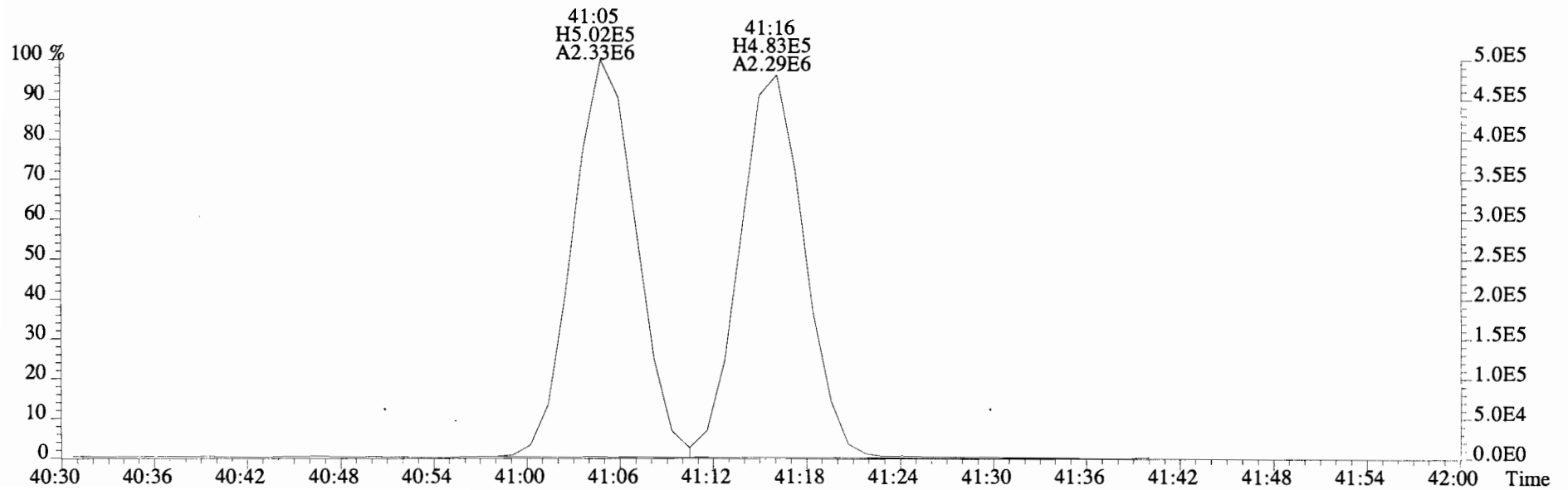
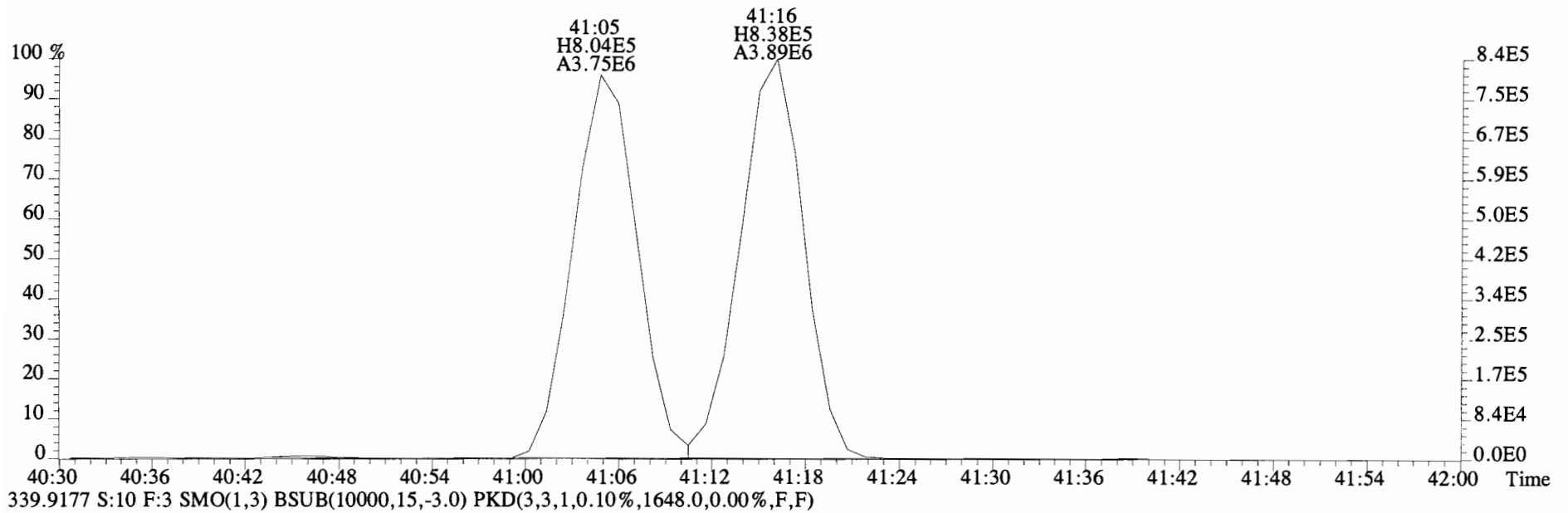
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



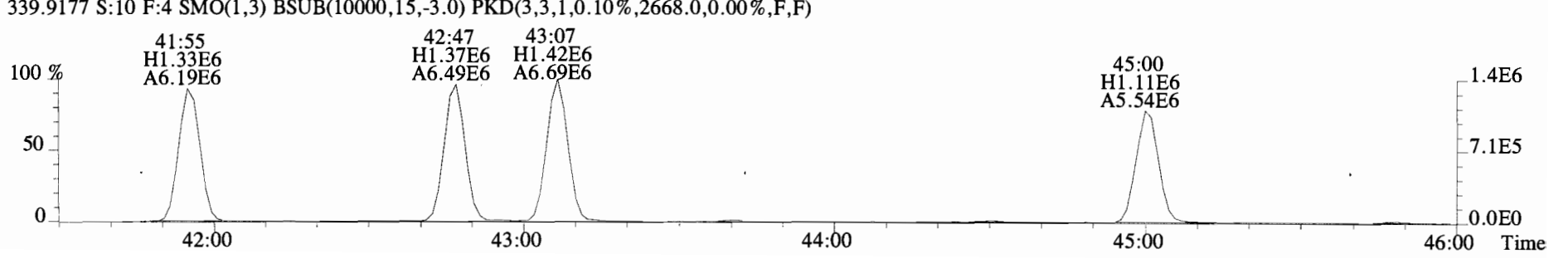
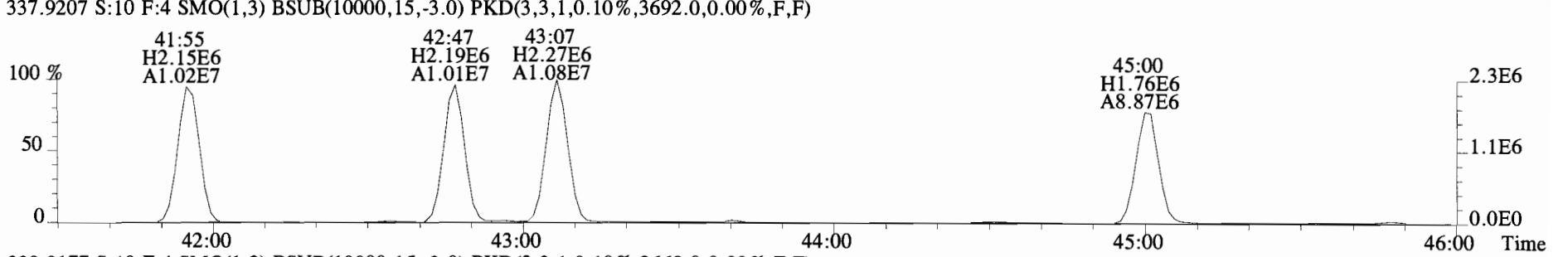
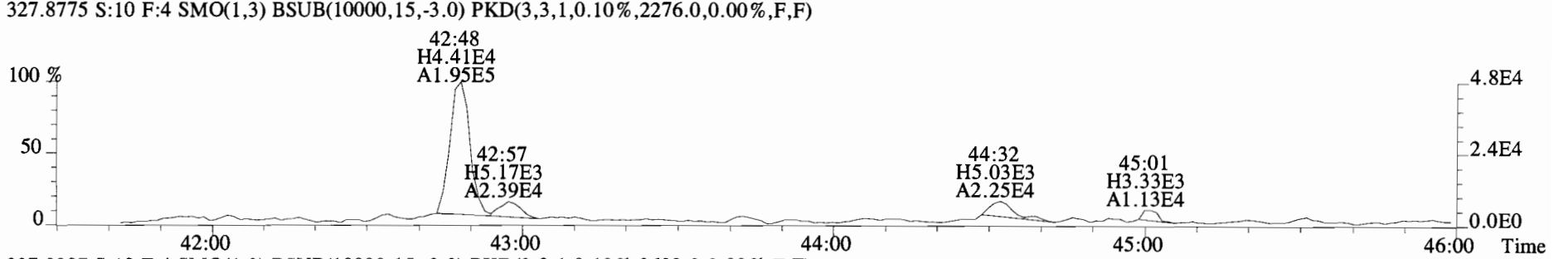
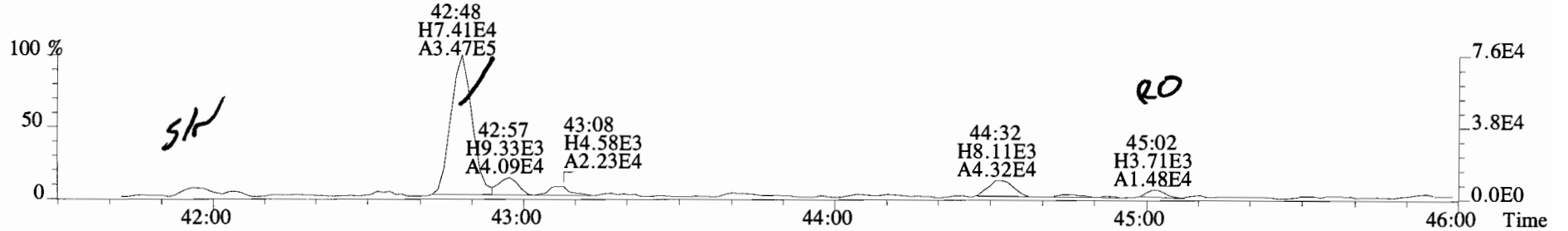
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1648.0,0.00%,F,F)



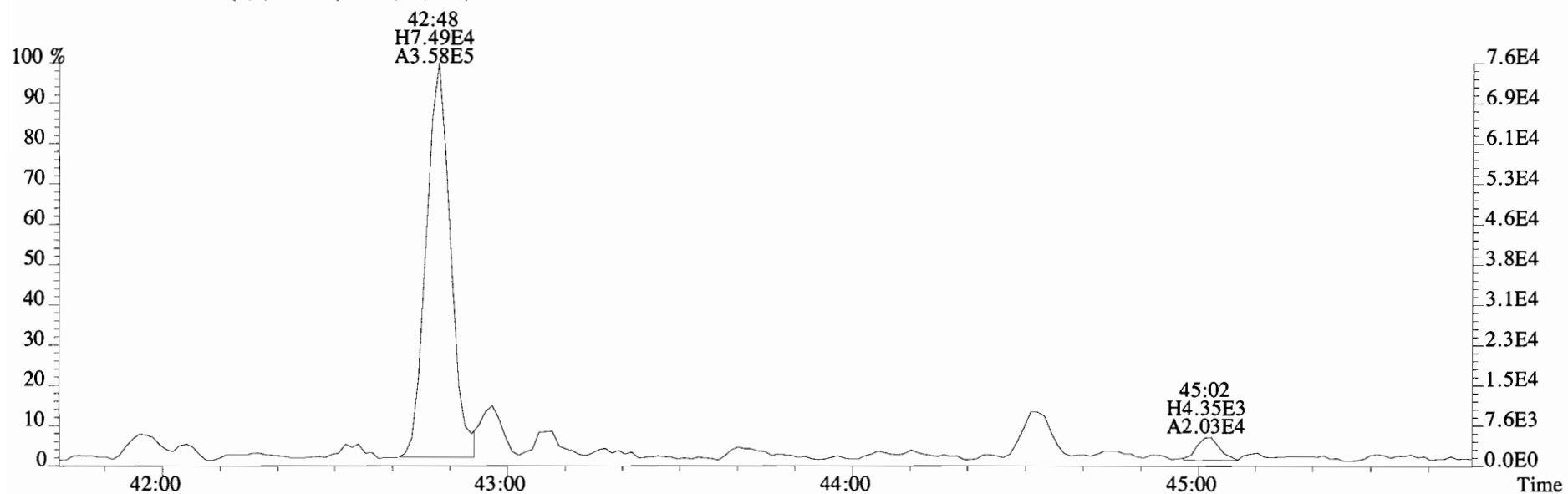
File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



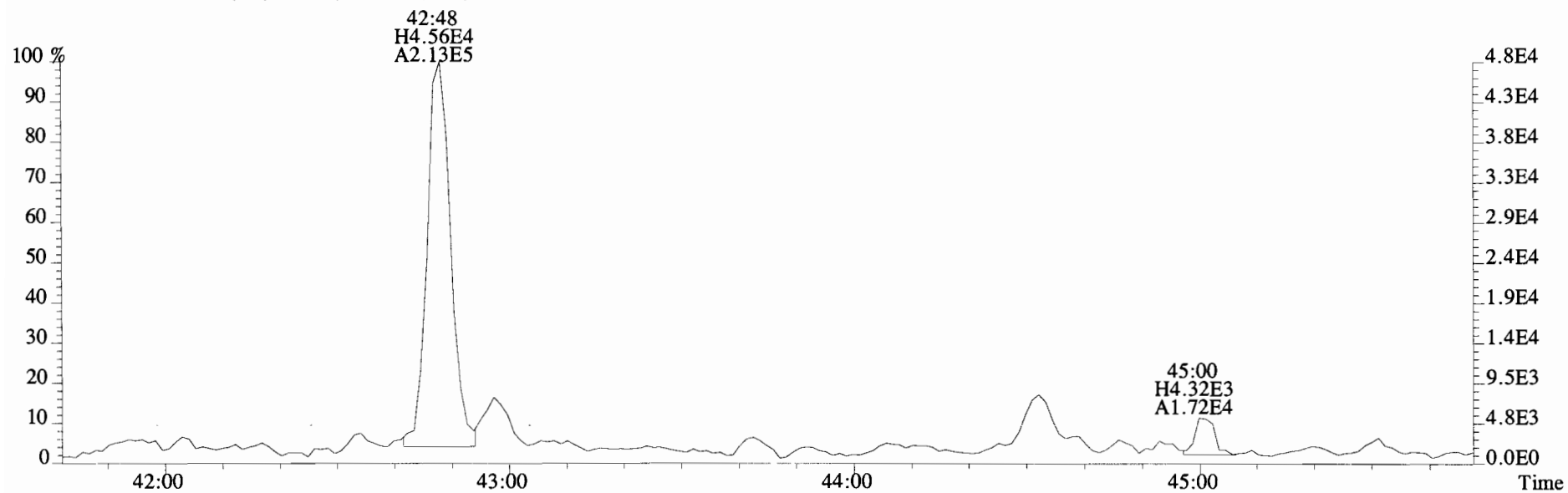
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2464.0,0.00%,F,F)



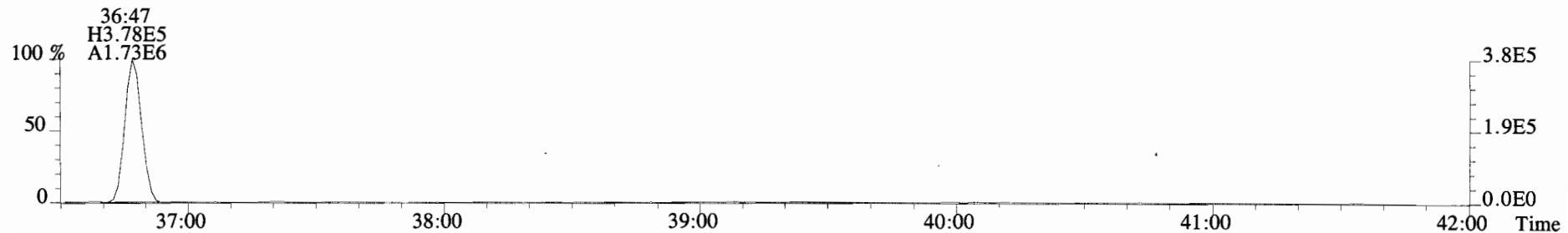
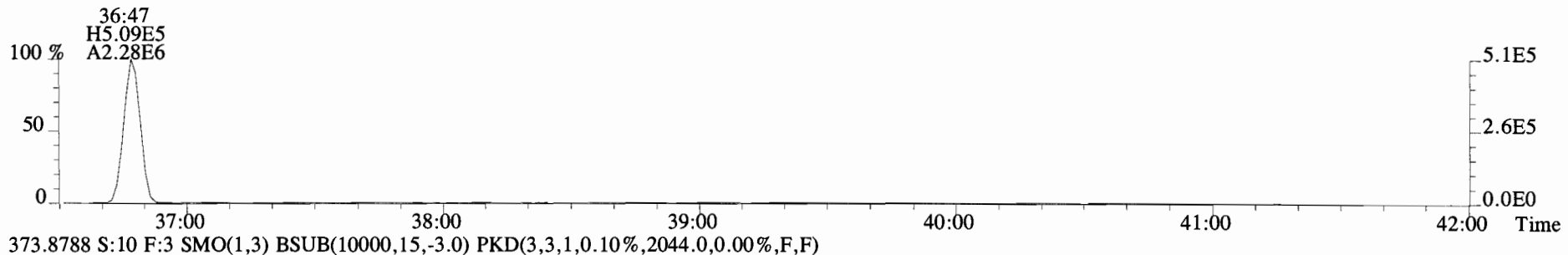
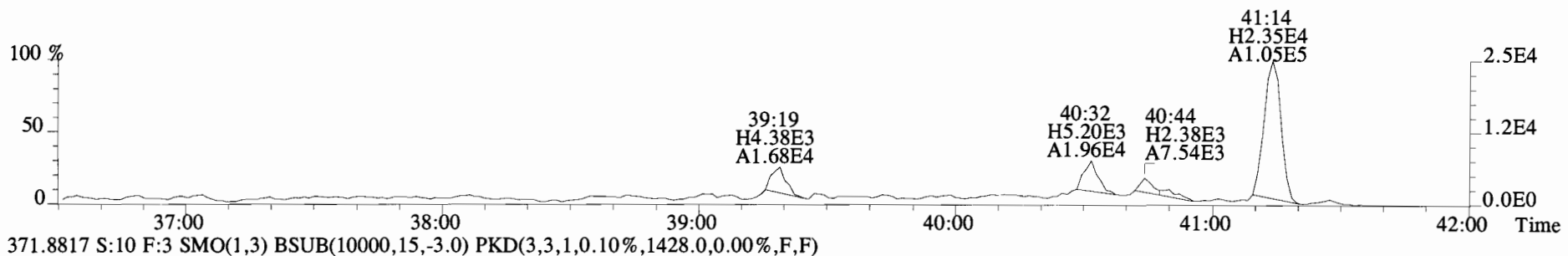
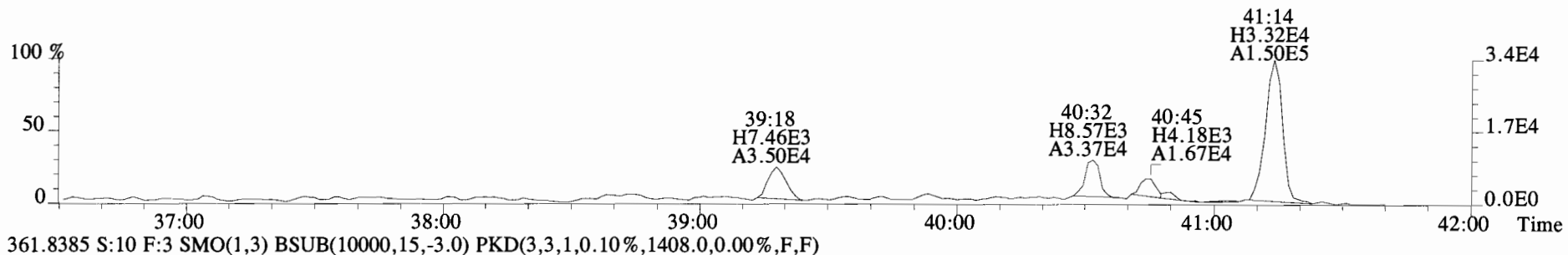
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0)



327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0)

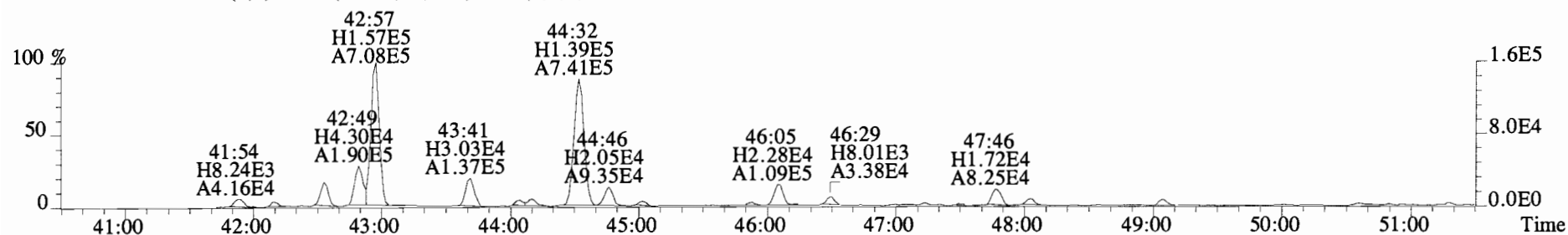


File:140911E1 #1-747 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)

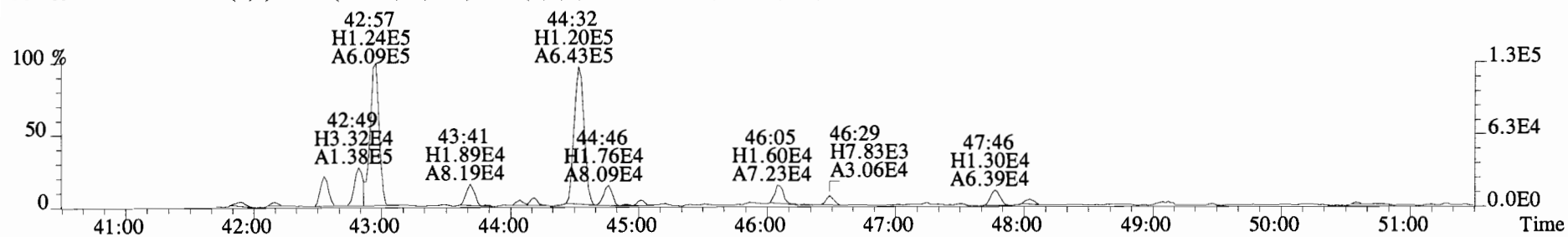




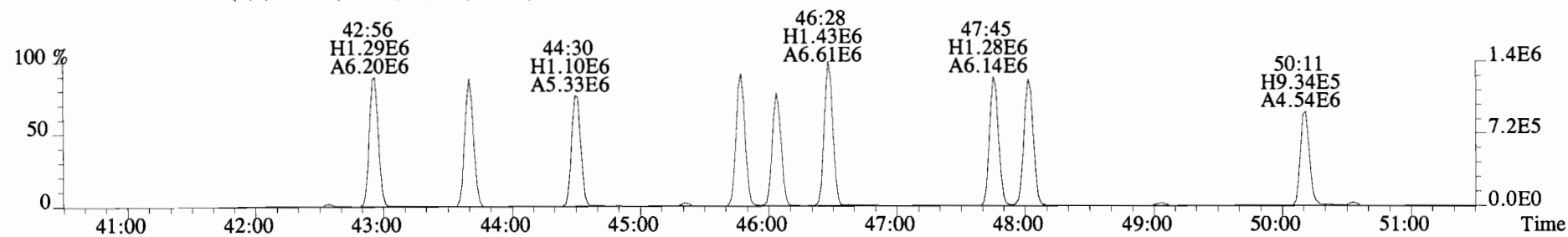
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1.5 Exp:PCB\_ZB1  
 359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



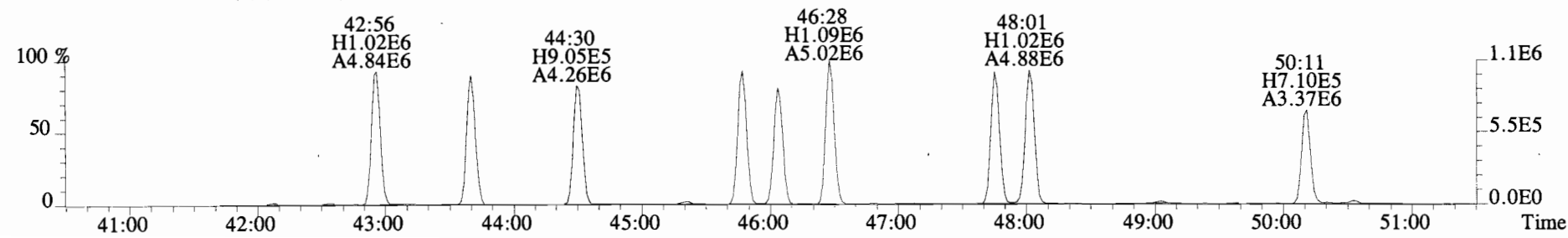
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



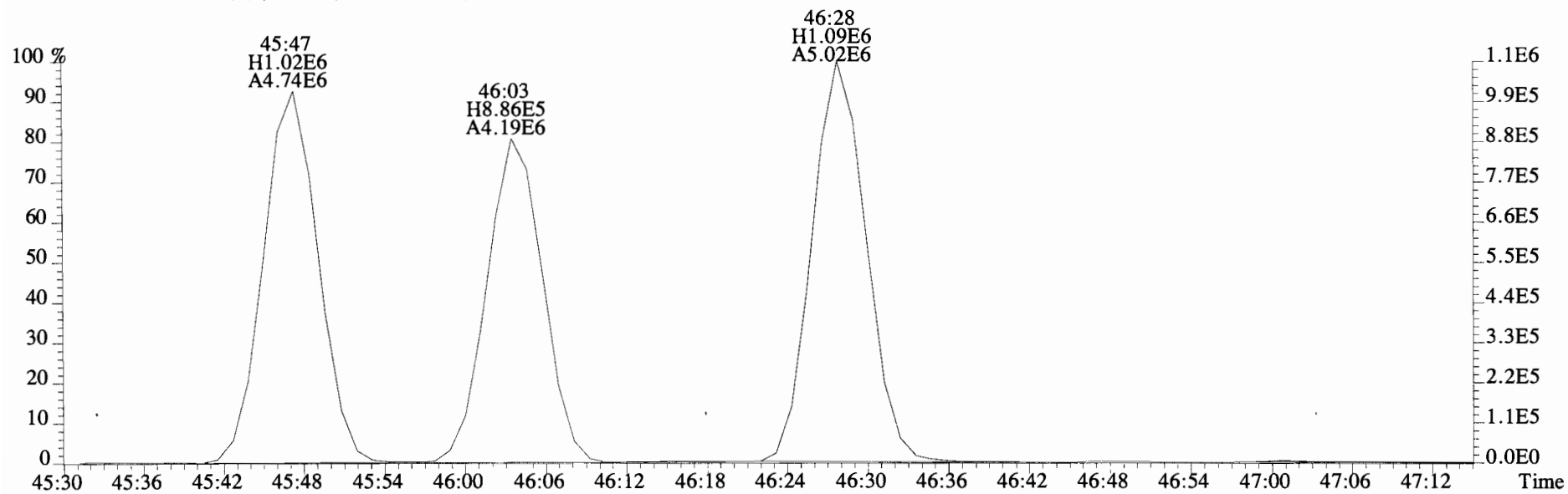
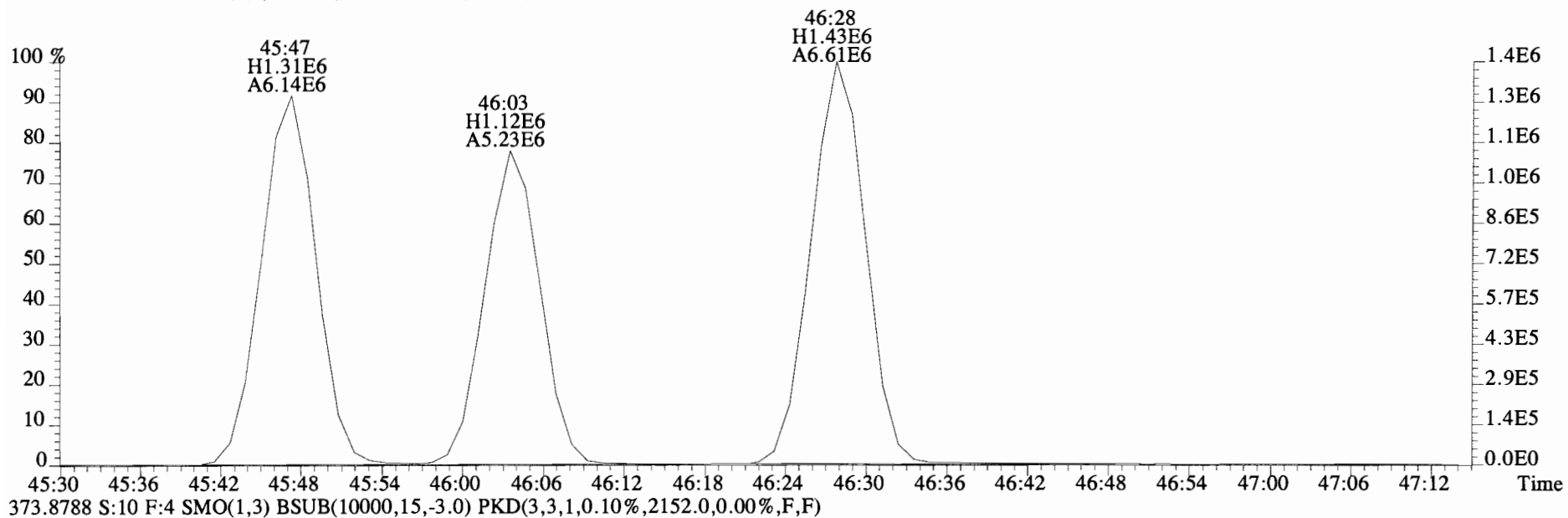
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2292.0,0.00%,F,F)



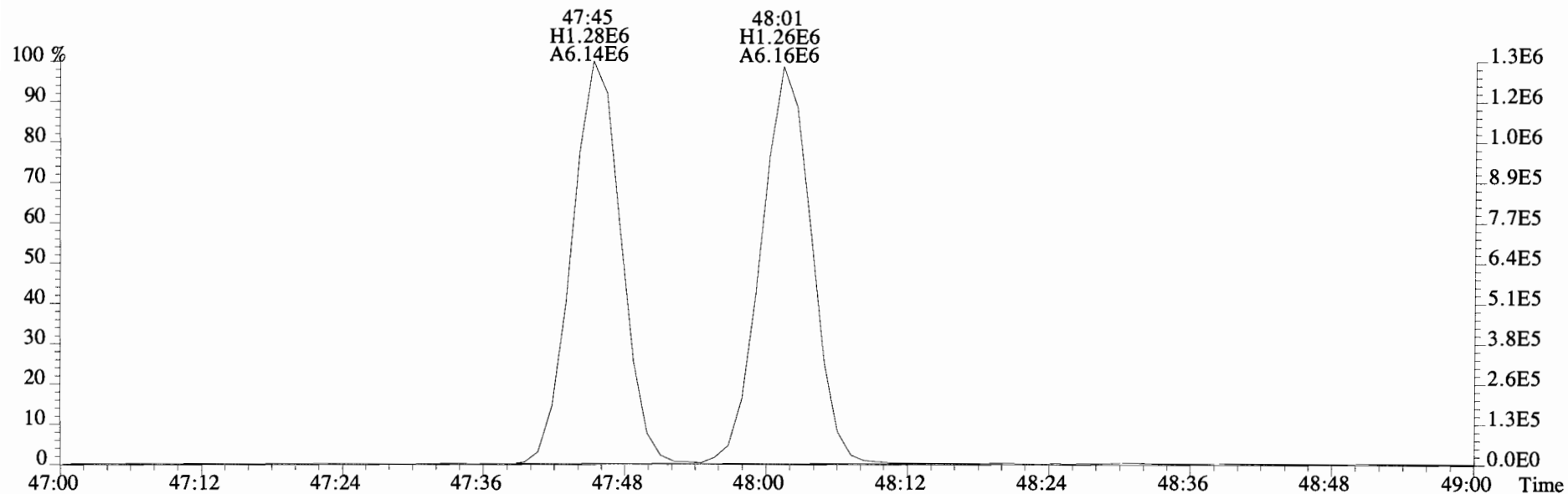
373.8788 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2152.0,0.00%,F,F)



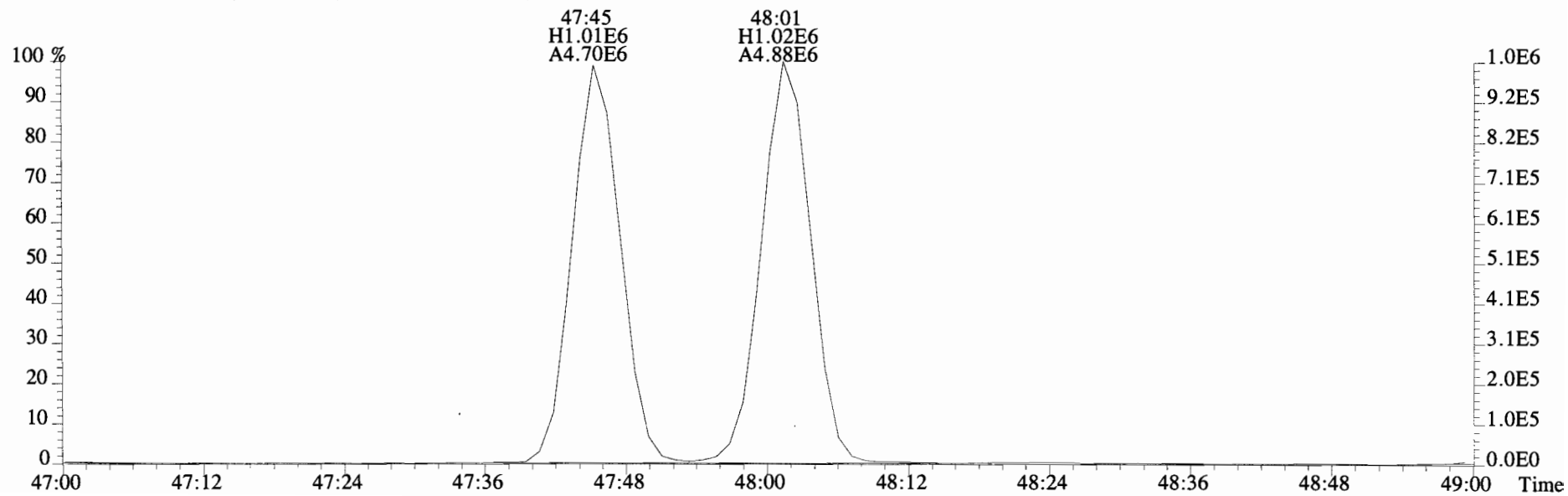
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2292.0,0.00%,F,F)



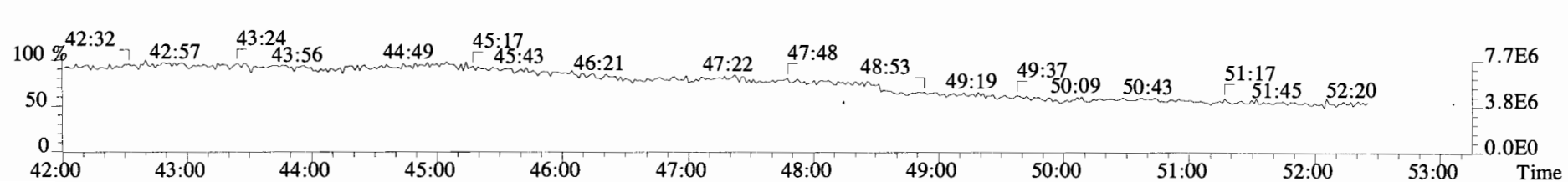
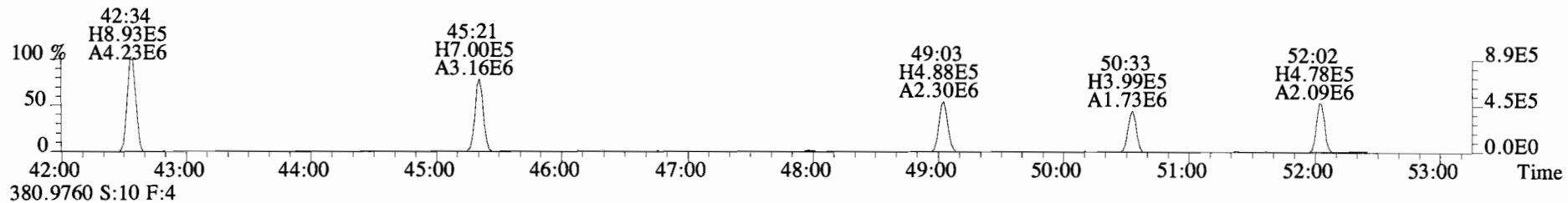
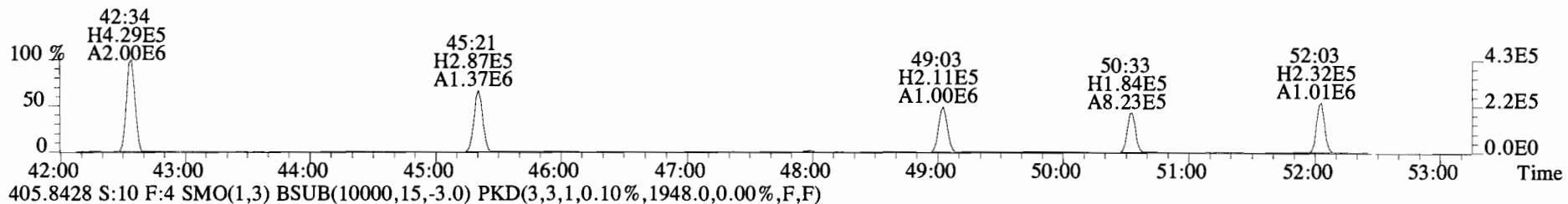
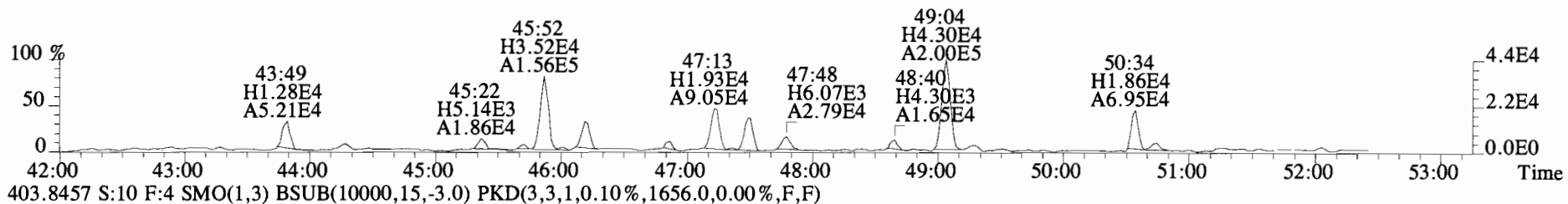
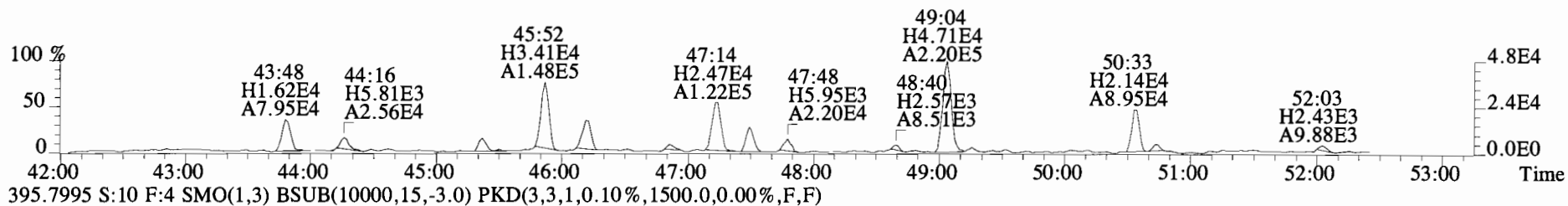
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2292.0,0.00%,F,F)



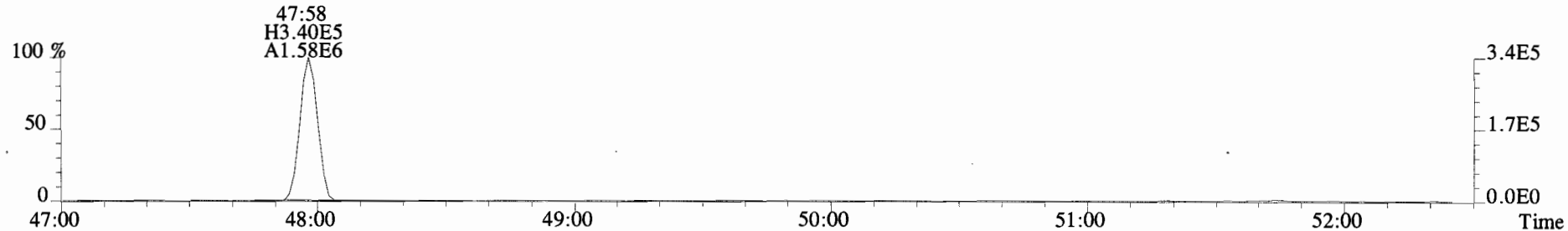
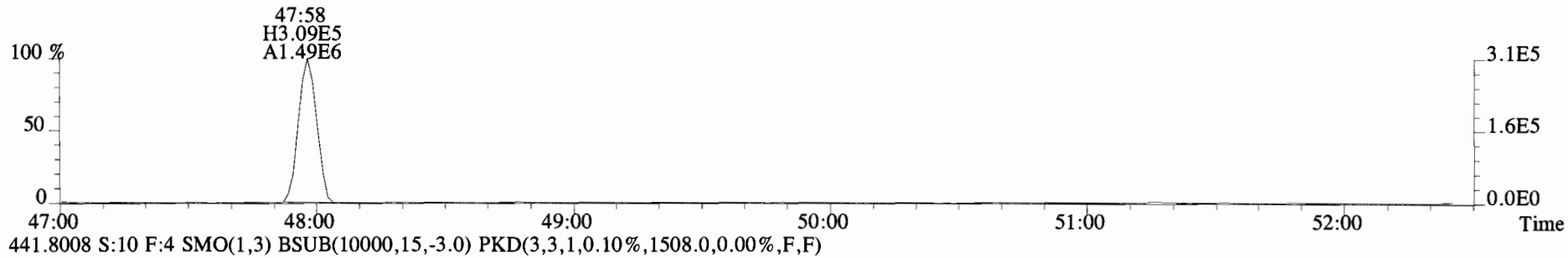
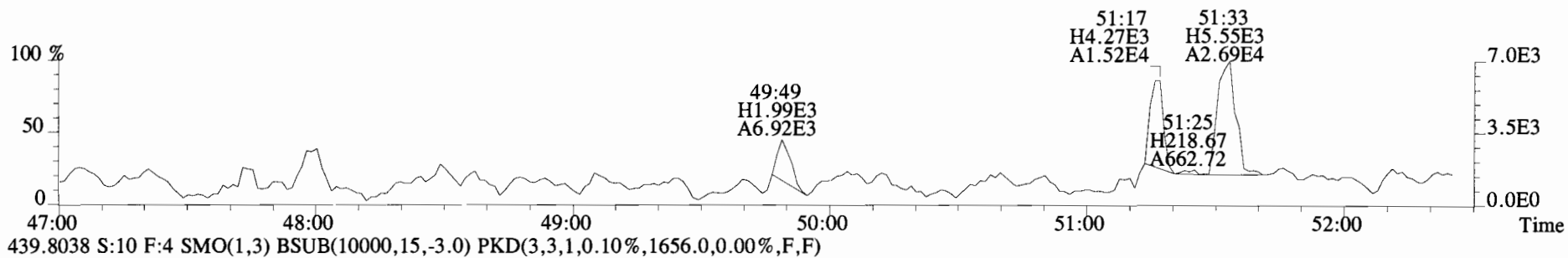
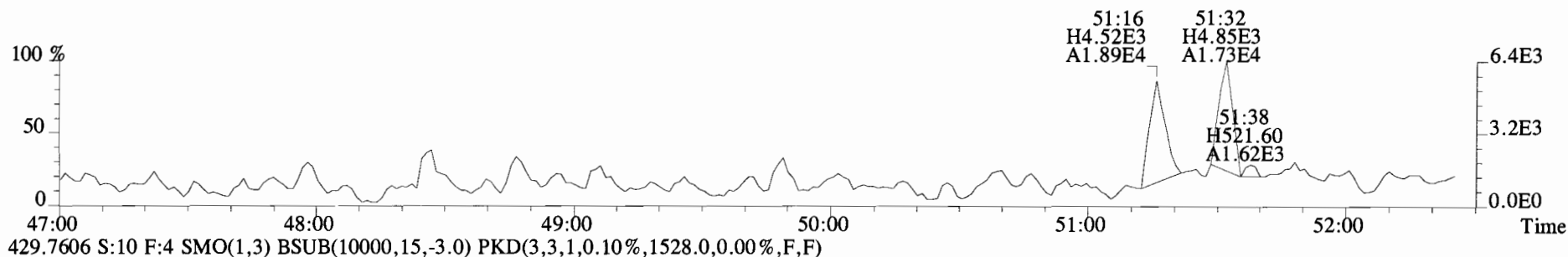
373.8788 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2152.0,0.00%,F,F)



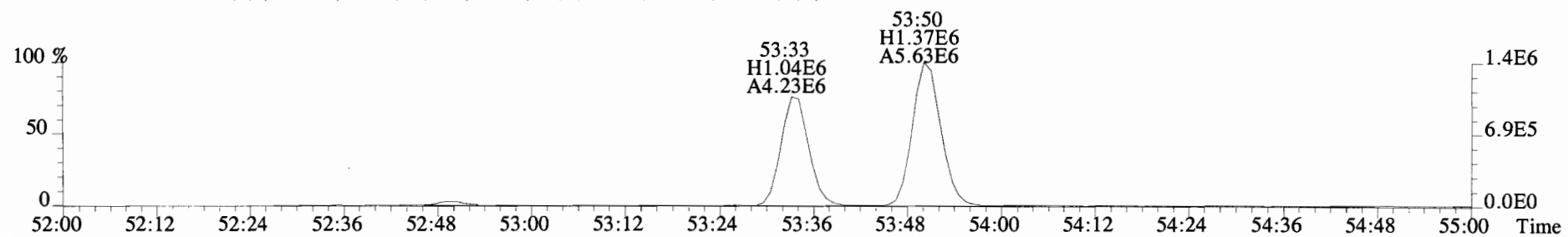
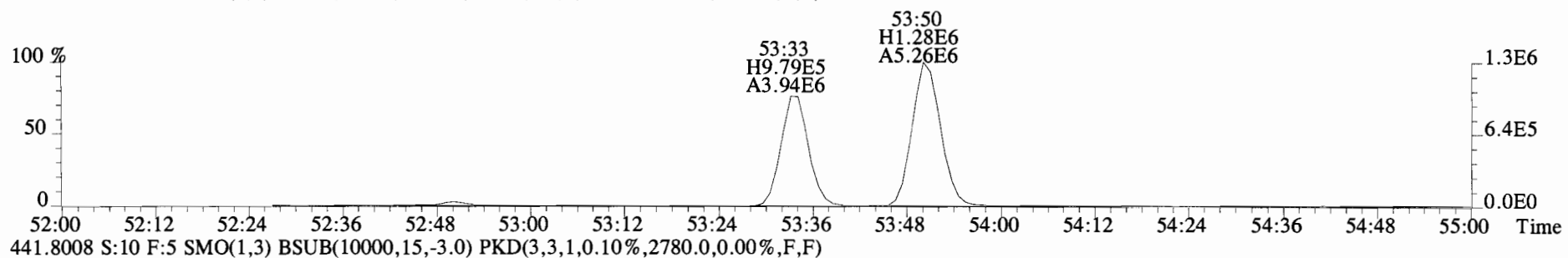
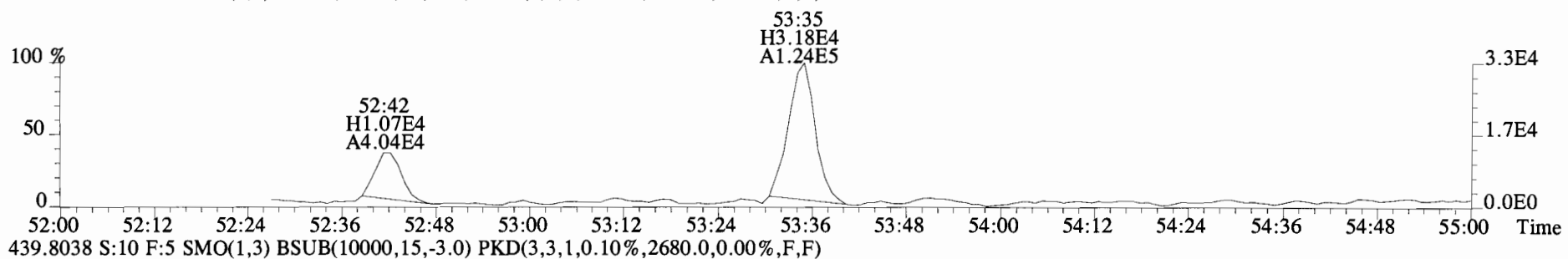
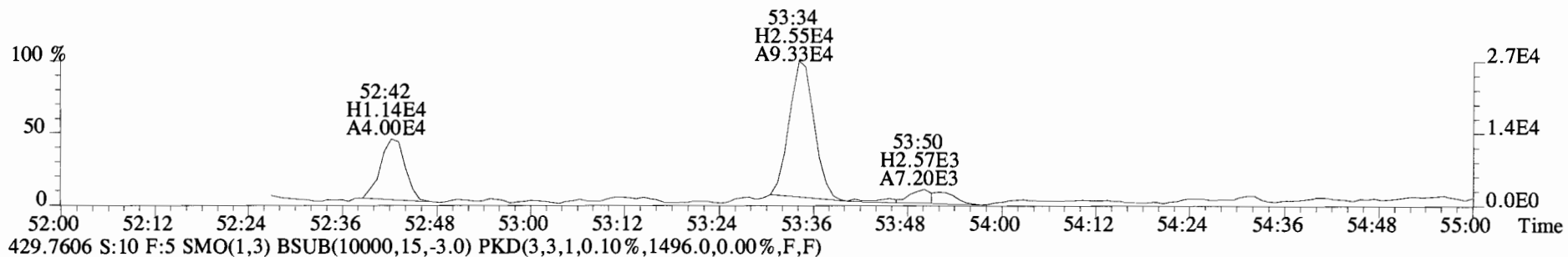
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1716.0,0.00%,F,F)



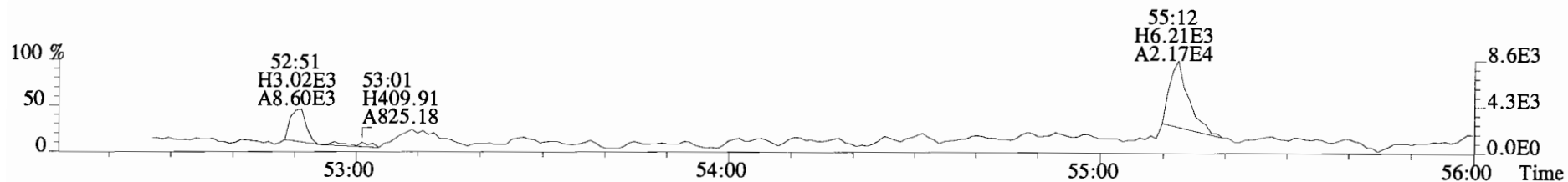
File:140911E1 #1-557 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1364.0,0.00%,F,F)



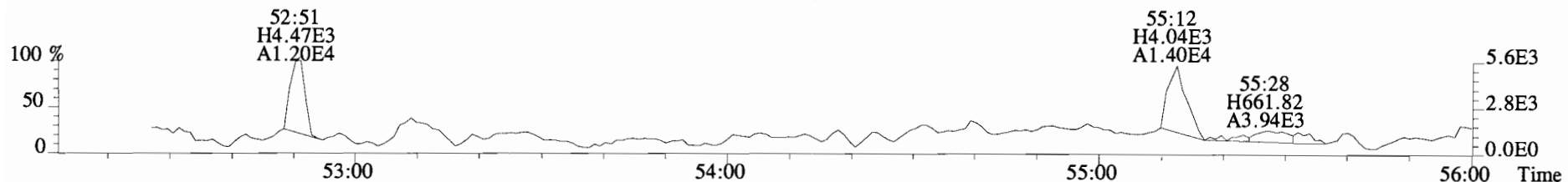
File:140911E1 #1-441 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1292.0,0.00%,F,F)



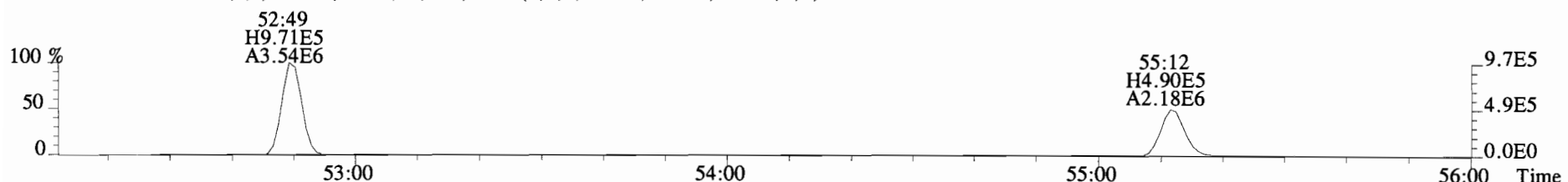
File:140911E1 #1-441 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1308.0,0.00%,F,F)



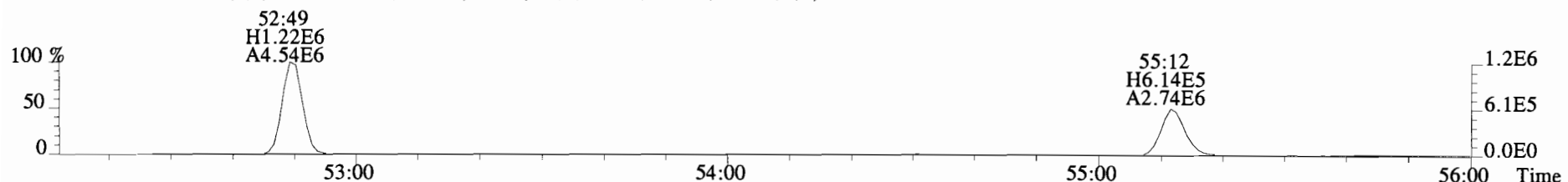
465.7186 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1376.0,0.00%,F,F)



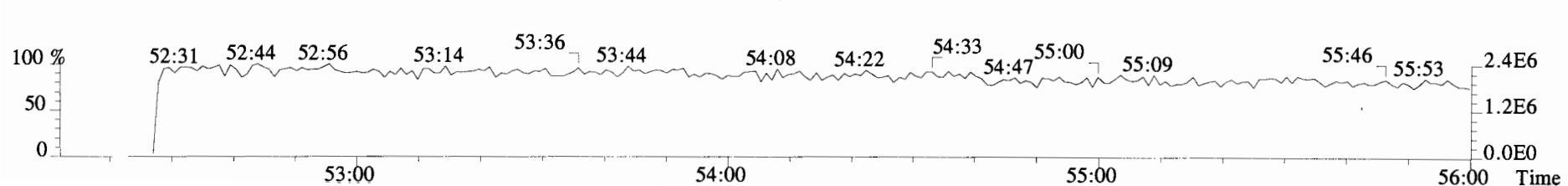
473.7648 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1376.0,0.00%,F,F)



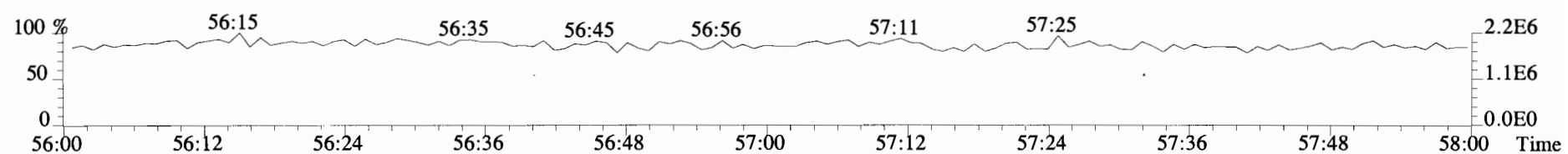
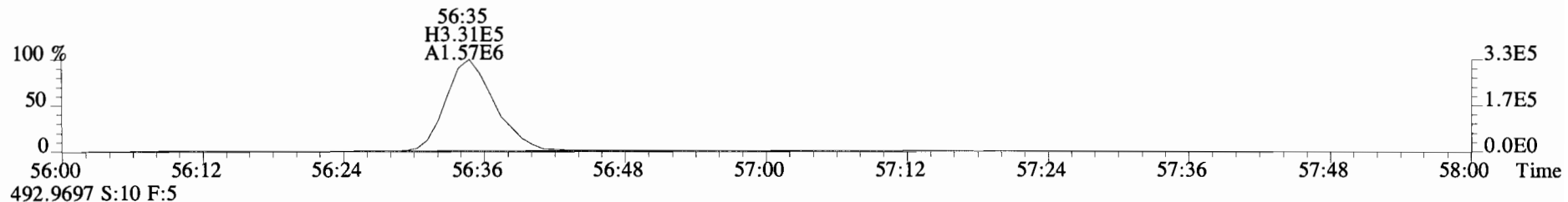
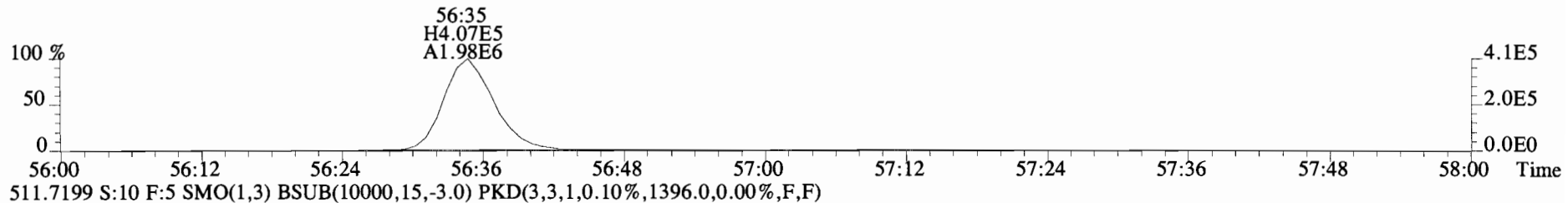
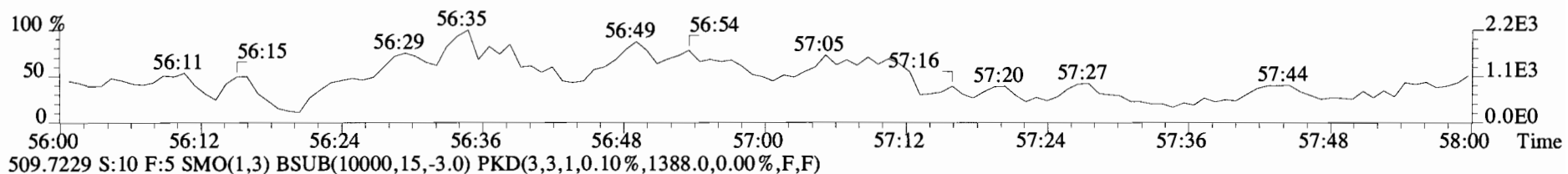
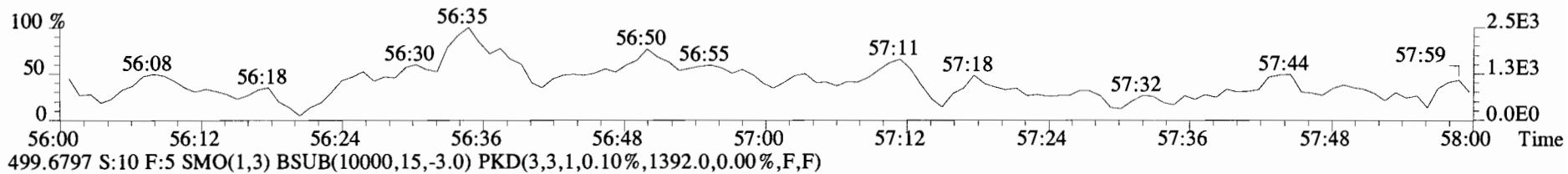
475.7619 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1904.0,0.00%,F,F)



492.9697 S:10 F:5



File:140911E1 #1-441 Acq:11-SEP-2014 23:55:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400647-02RE1 CS-TS-01-20140903-W DL 1:5 Exp:PCB\_ZB1  
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1264.0,0.00%,F,F)





Client ID: CS-SP-01-20140903-W  
Lab ID: 1400647-03RE1 DL 1:10

Filename: 140911E1 S:11 Acq:12-SEP-14 00:59:52  
GC Column ID: ZB-1 ICAL: PCBVG8-6-20-14 wt/vol: 1.010

ConCal: ST140911E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	5.21e+04	2.38	n 16:12	1.25	5.50	R	*	2.5	*	1.000	0.996-1.006	
Mono	PCB-2	*	*	n NotF $\eta$	1.18	*		1730	2.5	6.92	*	0.983-0.993	
Mono	PCB-3	6.32e+04	3.03	y 18:45	1.22	6.75		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	*	*	n NotF $\eta$	1.55	*		10400	2.5	32.5	*	0.998-1.008	
Di	PCB-7/9	*	*	n NotF $\eta$	1.27	*		10400	2.5	27.3	*	0.865-0.873	
Di	PCB-6	*	*	n NotF $\eta$	1.26	*		10400	2.5	27.4	*	0.890-0.899	
Di	PCB-5/8	1.02e+06	1.35	y 22:51	1.23	114		*	2.5	*	0.910	0.906-0.916	
Di	PCB-14	*	*	n NotF $\eta$	1.23	*		10900	2.5	28.0	*	0.949-0.959	
Di	PCB-11	9.73e+05	1.40	y 25:08	1.16	107		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	*	*	n NotF $\eta$	1.10	*		10400	2.5	29.4	*	1.010-1.020	
Di	PCB-15	8.45e+05	1.56	y 25:49	1.21	89.2		*	2.5	*	1.029	1.024-1.034	
Tri	PCB-19	7.25e+04	1.17	y 24:07	1.30	15.9		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.83	*		1740	2.5	5.65	*	1.032-1.042	
Tri	PCB-18	7.24e+05	1.07	y 25:44	0.86	168		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	2.83e+05	1.00	y 25:54	0.90	62.5		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	1.06e+05	1.18	y 26:28	1.18	18.0		*	2.5	*	0.981	0.976-0.986	
Tri	PCB-16/32	5.95e+05	1.20	y 26:58	1.03	115		*	2.5	*	0.999	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.26	*		1770	2.5	4.73	*	0.956-0.966	
Tri	PCB-23	*	*	n NotF $\eta$	1.31	*		1770	2.5	4.55	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF $\eta$	1.33	*		1770	2.5	4.49	*	0.967-0.977	
Tri	PCB-26	3.07e+05	1.06	y 28:18	1.29	33.4		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	1.67e+05	1.06	y 28:28	1.34	17.5		*	2.5	*	0.984	0.980-0.990	
Tri	PCB-31	1.62e+06	0.98	y 28:49	1.42	160		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	1.76e+06	1.07	y 28:56	1.38	179		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-20/21/33	1.43e+06	1.07	y 29:33	1.31	153		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	8.76e+05	1.13	y 29:58	1.32	93.4		*	2.5	*	1.036	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.38	*		1770	2.5	5.11	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF $\eta$	1.42	*		1770	2.5	4.96	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF $\eta$	1.35	*		1770	2.5	5.20	*	0.967-0.976	
Tri	PCB-35	8.29e+04	0.92	y 32:19	1.38	10.1		*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	9.86e+05	1.07	y 32:45	1.39	119		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-54	*	*	n NotF $\eta$	1.20	*		1920	2.5	7.41	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.97	*		1920	2.5	9.19	*	1.037-1.047	
Tetra	PCB-53	1.10e+05	0.77	y 29:37	1.19	27.9		*	2.5	*	0.946	0.941-0.951	
Tetra	PCB-51	5.98e+04	0.88	y 29:57	1.15	15.6		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	1.21e+05	0.77	y 30:22	0.97	37.5		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	6.06e+04	0.82	y 30:52	0.95	19.1		*	2.5	*	0.986	0.982-0.992	

Integrations by:

Analyst: DMS

Date: 9/16/14

Reviewed by: [Signature]

Date: 9/17/14

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400647-03RE1 DL 1:10

Filename: 140911E1 S:11 Acq:12-SEP-14 00:59:52  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.010

ConCal: ST140911E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.06e+06	0.71	y 31:18	1.28	248	*	2.5	*	*	1.000	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.37	*		1920	2.5	8.60	*	1.000-1.010	
Tetra	PCB-43/49	5.46e+05	0.73	y 31:36	1.11	147	*	2.5	*	*	1.010	1.005-1.015	
Tetra	PCB-47	2.18e+05	0.81	y 31:48	1.13	58.8	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-48/75	1.71e+05	0.92	n 31:55	1.30	40.0	R	*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.33	*		1920	2.5	8.55	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF $\eta$	1.29	*		1920	2.5	8.83	*	1.011-1.021	
Tetra	PCB-44	7.13e+05	0.85	y 32:36	0.94	232	*	2.5	*	*	1.026	1.020-1.030	
Tetra	PCB-42/59	3.25e+05	0.85	y 32:50	1.22	81.6	*	2.5	*	*	1.033	1.028-1.038	
Tetra	PCB-41/64/71/72	9.69e+05	0.75	y 33:24	1.31	226	*	2.5	*	*	1.051	1.046-1.056	
Tetra	PCB-68	*	*	n NotF $\eta$	1.49	*		1920	2.5	7.68	*	1.054-1.064	
Tetra	PCB-40	1.37e+05	0.74	y 33:52	0.82	51.3	*	2.5	*	*	1.066	1.061-1.071	
Tetra	PCB-57	*	*	n NotF $\eta$	1.11	*		1920	2.5	9.21	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF $\eta$	1.07	*		1920	2.5	9.56	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF $\eta$	1.10	*		1920	2.5	9.32	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF $\eta$	1.12	*		1920	2.5	9.19	*	0.982-0.992	
Tetra	PCB-74	4.67e+05	0.76	y 35:05	1.20	97.5	*	2.5	*	*	0.995	0.990-1.000	
Tetra	PCB-61/70	1.33e+06	0.75	y 35:17	1.08	309	*	2.5	*	*	1.000	0.994-1.004	
Tetra	PCB-76/66	9.38e+05	0.79	y 35:30	1.14	208	*	2.5	*	*	1.007	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.28	*		1920	2.5	7.88	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotF $\eta$	1.11	*		1920	2.5	9.07	*	1.005-1.015	
Tetra	PCB-56/60	7.52e+05	0.80	y 36:31	1.09	168	*	2.5	*	*	1.023	1.018-1.028	
Tetra	PCB-79	*	*	n NotF $\eta$	1.12	*		1920	2.5	8.96	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.24	*		1920	2.5	10.5	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotF $\eta$	1.38	*		1920	2.5	9.43	*	0.995-1.005	
Tetra	PCB-77	2.22e+05	0.76	y 39:24	1.21	61.3	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.26	*		1600	2.5	21.3	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF $\eta$	1.09	*		1600	2.5	24.6	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF $\eta$	0.93	*		1600	2.5	28.8	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	1.00	*		1600	2.5	26.8	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.11	*		1600	2.5	31.5	*	0.981-0.991	
Penta	PCB-95/98/102	5.83e+05	1.63	y 35:36	1.21	358	*	2.5	*	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF $\eta$	1.13	*		1600	2.5	30.8	*	0.998-1.008	
Penta	PCB-88/91	7.29e+04	1.07	n 36:00	1.02	53.3	R	*	2.5	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF $\eta$	1.90	*		1600	2.5	18.3	*	1.009-1.019	
Penta	PCB-84/92	3.01e+05	1.74	y 36:53	1.05	223	*	2.5	*	*	0.991	0.986-0.996	
Penta	PCB-89	*	*	n NotF $\eta$	1.02	*		1600	2.5	37.7	*	0.991-1.001	

Analyst DMJ

Date: 9/16/14

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400647-03RE1 DL 1:10

Filename: 140911E1 S:11 Acq:12-SEP-14 00:59:52  
GC Column ID: ZB-1 ICAL: PCBVG8-6-20-14 wt/vol: 1.010

ConCal: ST140911E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	8.50e+05	1.58	y 37:16	1.19	557	*	2.5	*	*	1.001	0.996-1.006	
Penta	PCB-113	*	*	n NotF $\eta$	1.35	*	1600	2.5	28.4	*	*	1.002-1.012	
Penta	PCB-99	3.48e+05	1.61	y 37:35	1.29	211	*	2.5	*	*	1.009	1.005-1.015	
Penta	PCB-119	3.26e+04	1.45	y 38:03	1.72	17.7	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	4.68e+04	1.50	y 38:12	1.29	34.0	*	2.5	*	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF $\eta$	1.52	*	1600	2.5	29.8	*	*	0.991-1.001	
Penta	PCB-97	2.23e+05	1.68	y 38:34	1.25	167	*	2.5	*	*	1.001	0.996-1.006	
Penta	PCB-86	*	*	n NotF $\eta$	1.02	*	1600	2.5	44.3	*	*	1.000-1.010	
Penta	PCB-87/117/125	3.57e+05	1.63	y 38:51	1.56	214	*	2.5	*	*	1.008	1.002-1.012	
Penta	PCB-111/115	*	*	n NotF $\eta$	1.75	*	1600	2.5	25.8	*	*	1.007-1.017	
Penta	PCB-85/116	1.22e+05	1.41	y 39:06	1.30	87.6	*	2.5	*	*	1.015	1.010-1.020	
Penta	PCB-120	*	*	n NotF $\eta$	1.78	*	1600	2.5	25.4	*	*	1.016-1.026	
Penta	PCB-110	1.27e+06	1.65	y 39:30	1.68	708	*	2.5	*	*	1.025	1.020-1.030	
Penta	PCB-82	8.86e+04	1.52	y 40:07	0.74	98.0	*	2.5	*	*	0.976	0.972-0.982	
Penta	PCB-124	*	*	n NotF $\eta$	1.32	*	1600	2.5	31.6	*	*	0.988-0.998	
Penta	PCB-107/109	6.84e+04	1.49	y 40:57	1.22	45.7	*	2.5	*	*	0.997	0.991-1.001	
Penta	PCB-123	*	*	n NotF $\eta$	1.22	*	1600	2.5	34.3	*	*	0.995-1.005	
Penta	PCB-106/118	8.76e+05	1.78	y 41:18	1.22	600	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	6.88e+04	1.34	y 41:56	1.36	13.6	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-122	*	*	n NotF $\eta$	1.24	*	2260	2.5	15.3	*	*	0.999-1.009	
Penta	PCB-105	1.13e+06	1.56	y 42:48	1.28	249	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF $\eta$	1.14	*	2260	2.5	16.2	*	*	0.995-1.005	
Penta	PCB-126	7.52e+04	1.41	y 45:03	1.28	18.5	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF $\eta$	1.14	*	888	2.5	25.3	*	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF $\eta$	1.06	*	888	2.5	27.0	*	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF $\eta$	1.10	*	888	2.5	26.1	*	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF $\eta$	1.09	*	888	2.5	26.2	*	*	1.055-1.065	
Hexa	PCB-136	1.04e+05	1.39	y 39:18	1.08	108	*	2.5	*	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF $\eta$	0.74	*	888	2.5	38.7	*	*	1.066-1.076	
Hexa	PCB-154	*	*	n NotF $\eta$	0.88	*	888	2.5	32.5	*	*	1.079-1.089	
Hexa	PCB-151	1.43e+05	1.21	y 40:32	0.81	200	*	2.5	*	*	1.102	1.097-1.107	
Hexa	PCB-135	6.85e+04	1.11	y 40:45	0.78	99.6	*	2.5	*	*	1.108	1.101-1.113	
Hexa	PCB-144	*	*	n NotF $\eta$	0.82	*	888	2.5	35.0	*	*	1.105-1.116	
Hexa	PCB-147	*	*	n NotF $\eta$	0.83	*	888	2.5	34.6	*	*	1.011-1.120	
Hexa	PCB-139/149	4.96e+05	1.29	y 41:14	0.84	666	*	2.5	*	*	1.121	1.115-1.127	
Hexa	PCB-140	*	*	n NotF $\eta$	0.79	*	888	2.5	36.5	*	*	1.120-1.132	
Hexa	PCB-134/143	1.30e+05	1.31	y 41:53	0.93	60.8	*	2.5	*	*	0.975	0.970-0.980	

Analyst: DMS

Date: 9/16/14

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400647-03RE1 DL 1:10

Filename: 140911E1 S:11 Acq:12-SEP-14 00:59:52  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.010

ConCal: ST140911E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	8.72e+04	1.16	y 42:10	0.95	40.1	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF $\eta$	0.91	*	*	2010 2.5	*	26.5	*	0.981-0.991	
Hexa	PCB-146/165	5.04e+05	1.38	y 42:33	1.16	190	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	7.69e+05	1.25	y 42:50	1.11	300	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	2.84e+06	1.25	y 42:58	1.18	1050	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF $\eta$	1.37	*	*	2010 2.5	*	17.7	*	1.000-1.010	
Hexa	PCB-141	5.30e+05	1.36	y 43:42	0.97	231	*	2.5	*	*	1.000	0.996-1.005	
Hexa	PCB-137	8.89e+04	1.29	y 44:05	1.07	35.3	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	1.63e+05	1.25	y 44:12	0.85	81.6	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-138/163/164	3.11e+06	1.27	y 44:34	1.23	1220	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	3.37e+05	1.33	y 44:46	1.29	125	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	9.78e+04	1.11	y 45:03	0.92	50.7	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	*	*	n NotF $\eta$	1.12	*	*	2010 2.5	*	20.8	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotF $\eta$	1.16	*	*	2010 2.5	*	19.9	*	0.995-1.005	
Hexa	PCB-128/162	3.69e+05	1.26	y 46:06	1.02	153	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	1.37e+05	1.26	y 46:30	1.06	51.9	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	2.89e+05	1.14	y 47:49	1.18	110	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-157	6.69e+04	1.66	n 48:04	1.08	27.1	R	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF $\eta$	1.11	*	*	2010 2.5	*	28.3	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF $\eta$	1.40	*	*	2270 2.5	*	19.5	*	0.995-1.005	
Hepta	PCB-184	*	*	n NotF $\eta$	1.24	*	*	2270 2.5	*	22.1	*	1.006-1.016	
Hepta	PCB-179	2.73e+05	1.02	y 43:49	1.30	151	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	7.95e+04	1.45	n 44:16	1.36	42.3	R	*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF $\eta$	1.28	*	*	2270 2.5	*	21.4	*	1.049-1.059	
Hepta	PCB-178	1.14e+05	1.09	y 45:23	0.94	88.2	*	2.5	*	*	1.066	1.061-1.071	
Hepta	PCB-175	2.58e+04	1.27	n 45:43	0.97	19.3	R	*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	6.46e+05	1.14	y 45:53	1.01	461	*	2.5	*	*	1.077	1.073-1.083	
Hepta	PCB-183	3.19e+05	1.10	y 46:13	1.08	213	*	2.5	*	*	1.085	1.080-1.090	
Hepta	PCB-185	4.44e+04	1.04	y 46:51	1.34	38.4	*	2.5	*	*	0.955	0.951-0.961	
Hepta	PCB-174	4.68e+05	1.17	y 47:14	1.34	406	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF $\eta$	1.36	*	*	2270 2.5	*	36.5	*	0.961-0.971	
Hepta	PCB-177	2.94e+05	1.12	y 47:31	1.24	275	*	2.5	*	*	0.968	0.964-0.974	
Hepta	PCB-171	1.53e+05	1.02	y 47:49	1.31	135	*	2.5	*	*	0.975	0.970-0.980	
Hepta	PCB-173	*	*	n NotF $\eta$	1.16	*	*	2270 2.5	*	42.9	*	0.979-0.989	
Hepta	PCB-172	9.32e+04	1.02	y 48:41	1.22	88.5	*	2.5	*	*	0.992	0.988-0.998	
Hepta	PCB-192	*	*	n NotF $\eta$	1.53	*	*	2270 2.5	*	32.6	*	0.991-1.001	
Hepta	PCB-180	1.06e+06	1.13	y 49:05	1.43	859	*	2.5	*	*	1.000	0.995-1.005	

Analyst: DMS

Date: 9/17/14

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400647-03RE1 DL 1:10

Filename: 140911E1 S:11 Acq:12-SEP-14 00:59:52  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.010

ConCal: ST140911E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	7.42e+04	1.01	y 49:18	1.65	55.7		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	*	*	n NotF $\eta$	1.67	*		2270	2.5	30.3	*	1.004-1.014	
Hepta	PCB-170	4.01e+05	1.09	y 50:34	1.50	392		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	9.18e+04	1.28	n 50:45	2.02	66.8	R	*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	*	*	n NotF $\eta$	1.54	*		885	2.5	12.3	*	0.995-1.005	
Octa	PCB-202	*	*	n NotF $\eta$	1.04	*		2410	2.5	78.3	*	0.995-1.005	
Octa	PCB-201	*	*	n NotF $\eta$	1.10	*		2410	2.5	73.9	*	1.006-1.016	
Octa	PCB-204	*	*	n NotF $\eta$	0.99	*		2410	2.5	82.0	*	1.009-1.019	
Octa	PCB-197	*	*	n NotF $\eta$	1.07	*		2410	2.5	76.0	*	1.015-1.025	
Octa	PCB-200	*	*	n NotF $\eta$	1.02	*		2410	2.5	80.1	*	1.032-1.044	
Octa	PCB-198	*	*	n NotF $\eta$	0.74	*		2410	2.5	110	*	1.058-1.068	
Octa	PCB-199	1.16e+05	0.81	y 51:16	0.73	240		*	2.5	*	1.068	1.060-1.070	
Octa	PCB-196/203	1.19e+05	0.82	y 51:32	0.77	233		*	2.5	*	1.074	1.066-1.076	
Octa	PCB-195	1.43e+05	0.84	y 52:43	1.20	74.5		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	3.92e+05	0.90	y 53:35	1.25	196		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	*	*	n NotF $\eta$	1.41	*		1890	2.5	16.9	*	1.001-1.011	
Nona	PCB-208	5.60e+04	1.44	y 52:51	0.96	33.5		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	3.09e+04	1.04	n 53:10	0.92	19.4	R	*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	1.24e+05	1.47	y 55:14	1.03	115		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	5.79e+04	1.29	y 56:38	1.18	60.1		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 9/16/14

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400647-03RE1 DL 1:10

Filename: 140911E1 S:11 Acq:12-SEP-14 00:59:52  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14

ConCal: ST140911E1-1  
wt/vol: 1.010 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	6.32e+04	3.03 y	18:45	1.22	6.75099	
Total Di-PCB	2.83e+06	1.35 y	22:51	1.21	310.698	
Total Tri-PCB	1.78e+06	1.17 y	24:07	1.16	379.440	
Total Tri-PCB	7.22e+06	1.06 y	28:18	1.35	766.123	Sum:1145.56
Total Tetra-PCB	8.02e+06	0.77 y	29:37	1.17	1987.93	
Total Penta-PCB	5.17e+06	1.63 y	35:36	1.21	3321.44	
Total Penta-PCB	1.27e+06	1.34 y	41:56	1.26	281.616	Sum:3603.06
Total Hexa-PCB	8.11e+05	1.39 y	39:18	0.92	1074.03	
Total Hexa-PCB	9.46e+06	1.31 y	41:53	1.08	3693.74	Sum:4767.77
Total Hepta-PCB	3.94e+06	1.02 y	43:49	1.27	3153.15	
Total Octa-PCB	2.35e+05	0.81 y	51:16	0.92	473.646	
Total Octa-PCB	5.35e+05	0.84 y	52:43	1.29	270.789	Sum:744.435
Total Nona-PCB	1.80e+05	1.44 y	52:51	0.96	148.985	
Total Deca-PCB	5.79e+04	1.29 y	56:38	1.18	60.1039	

Total PCB Conc: ~~16200.8899450~~

15900

Integrations

by  
Analyst: Dms

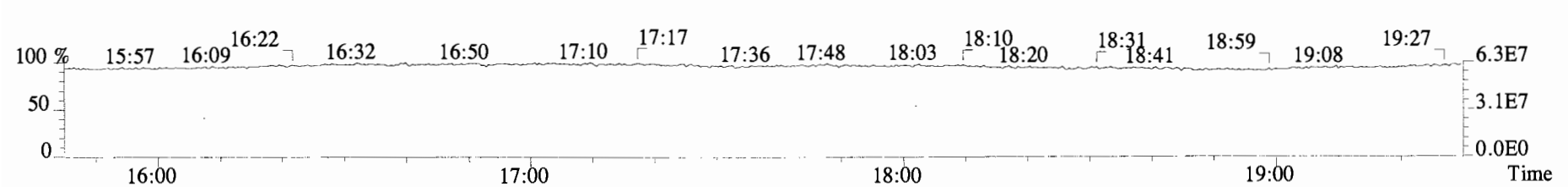
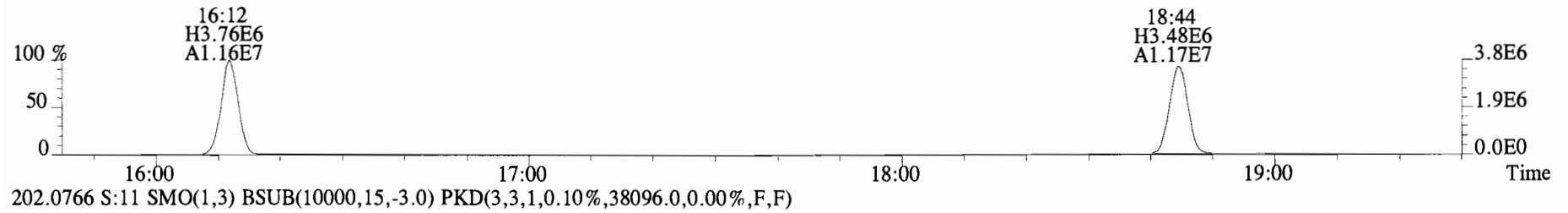
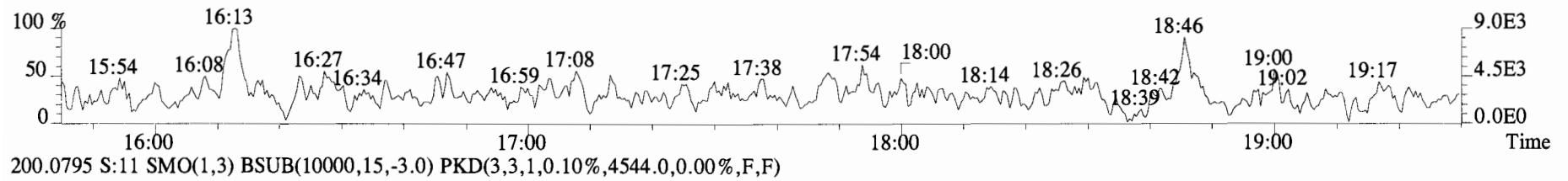
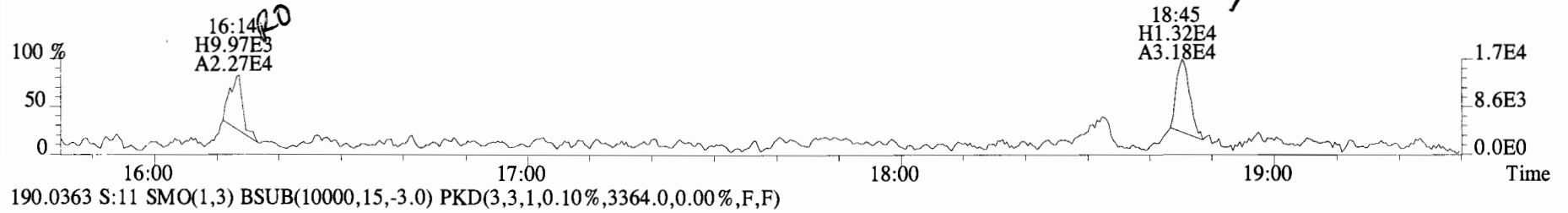
Date: 9/17/14

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	1.49e+07	3.45 y	0.89	16:12	0.628	0.622-0.628		2020	102											
13C-PCB-3	1.52e+07	3.32 y	0.93	18:44	0.726	0.721-0.729		1970	99.7		13C-PCB-79	8.88e+06	0.80 y	1.01	37:34	1.029	1.023-1.033		2120	107
13C-PCB-4	9.38e+06	1.57 y	0.55	20:03	0.777	0.772-0.780		2060	104		13C-PCB-178	1.89e+06	0.49 y	0.63	45:21	0.984	0.979-0.989		1490	75.2
13C-PCB-9	1.43e+07	1.60 y	0.83	21:47	0.844	0.840-0.848		2080	105											
13C-PCB-11	1.55e+07	1.61 y	0.94	25:06	0.973	0.968-0.978		1990	101	PS vs. IS										
13C-PCB-19	6.98e+06	1.16 y	0.53	24:07	0.935	0.929-0.939		1580	79.6											
13C-PCB-28	1.41e+07	1.06 y	0.89	28:55	1.004	0.999-1.009		2120	107		13C-PCB-79	8.88e+06	0.80 y	1.20	37:34	0.969	0.963-0.973		2370	119
13C-PCB-32	9.95e+06	1.04 y	0.81	26:59	1.046	1.041-1.051		1470	74.2		13C-PCB-178	1.89e+06	0.49 y	0.94	45:21	0.924	0.920-0.930		2340	118
13C-PCB-37	1.18e+07	1.07 y	0.83	32:45	1.137	1.131-1.143		1900	96.1											
13C-PCB-47	6.48e+06	0.78 y	0.74	31:47	0.870	0.867-0.875		2090	106											
13C-PCB-52	6.60e+06	0.84 y	0.71	31:18	0.857	0.853-0.861		2240	113											
13C-PCB-54	8.47e+06	0.79 y	0.85	27:49	0.762	0.758-0.766		2390	121											
13C-PCB-70	7.87e+06	0.81 y	0.94	35:16	0.966	0.961-0.971		2000	101											
13C-PCB-77	5.94e+06	0.78 y	0.89	39:23	1.079	1.073-1.083		1600	80.6											
13C-PCB-80	8.13e+06	0.78 y	0.96	35:41	0.977	0.972-0.982		2030	102											
13C-PCB-81	6.20e+06	0.80 y	0.84	38:47	1.062	1.057-1.067		1780	89.7											
13C-PCB-95	2.66e+06	1.66 y	0.74	35:35	0.913	0.908-0.918		2220	112	RS										
13C-PCB-97	2.12e+06	1.63 y	0.69	38:32	0.989	0.984-0.994		1910	96.6											
13C-PCB-101	2.54e+06	1.63 y	0.79	37:14	0.956	0.951-0.961		2010	102		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-104	3.67e+06	1.69 y	1.00	32:26	0.832	0.829-0.837		2300	116		13C-PCB-15	1.65e+07	1.55 y	1.00	25:48	1980				
13C-PCB-105	6.97e+06	1.64 y	1.24	42:47	0.928	0.924-0.934		2810	142		13C-PCB-31	1.48e+07	1.05 y	1.00	28:48	1980				
13C-PCB-114	7.38e+06	1.64 y	1.21	41:56	0.910	0.905-0.915		3040	154		13C-PCB-60	8.25e+06	0.85 y	1.00	36:31	1980				
13C-PCB-118	2.36e+06	1.60 y	0.98	41:17	1.059	1.054-1.064		1490	75.4		13C-PCB-111	3.18e+06	1.76 y	1.00	38:58	1980				
13C-PCB-123	2.42e+06	1.63 y	0.95	41:05	1.054	1.049-1.059		1590	80.3		13C-PCB-128	3.97e+06	1.22 y	1.00	46:05	1980				
13C-PCB-126	6.26e+06	1.60 y	1.16	45:02	0.977	0.972-0.982		2680	135		13C-PCB-205	4.11e+06	0.98 y	1.00	53:51	1980				
13C-PCB-127	7.80e+06	1.62 y	1.34	43:08	0.936	0.931-0.941		2890	146											
13C-PCB-138	4.14e+06	1.28 y	1.04	44:31	0.966	0.961-0.971		1970	99.7											
13C-PCB-141	4.66e+06	1.34 y	1.07	43:41	0.948	0.943-0.953		2160	109											
13C-PCB-153	4.56e+06	1.35 y	1.11	42:57	0.932	0.927-0.937		2040	103											
13C-PCB-155	1.75e+06	1.42 y	0.83	36:47	0.944	0.939-0.949		1310	66.0											
13C-PCB-156	4.39e+06	1.40 y	1.24	47:48	1.037	1.032-1.042		1760	88.8											
13C-PCB-157	4.51e+06	1.20 y	1.31	48:04	1.043	1.037-1.047		1710	86.5											
13C-PCB-159	4.70e+06	1.27 y	1.20	45:49	0.994	0.989-0.999		1950	98.6											
13C-PCB-167	4.94e+06	1.36 y	1.32	46:30	1.009	1.004-1.014		1860	94.1											
13C-PCB-169	3.71e+06	1.29 y	1.22	50:13	1.090	1.082-1.092		1520	76.8											
13C-PCB-170	1.38e+06	0.42 y	0.54	50:34	1.097	1.089-1.101		1280	64.7											
13C-PCB-180	1.71e+06	0.51 y	0.67	49:04	1.065	1.059-1.069		1260	63.7											
13C-PCB-188	2.73e+06	0.44 y	0.94	42:35	0.924	0.919-0.929		1460	73.5											
13C-PCB-189	1.47e+06	0.46 y	0.72	52:04	1.130	1.120-1.132		1020	51.6											
13C-PCB-194	3.18e+06	0.92 y	0.81	53:34	0.995	0.990-1.000		1890	95.4											
13C-PCB-202	1.31e+06	0.92 y	0.83	48:00	1.042	1.036-1.046		783	39.5											
13C-PCB-206	2.07e+06	0.77 y	0.66	55:14	1.026	1.021-1.031		1520	76.5											
13C-PCB-208	3.44e+06	0.83 y	1.12	52:51	0.981	0.976-0.986		1480	74.6											
13C-PCB-209	1.62e+06	1.15 y	0.61	56:37	1.051	1.044-1.054		1270	64.4											

Analyst: DMS

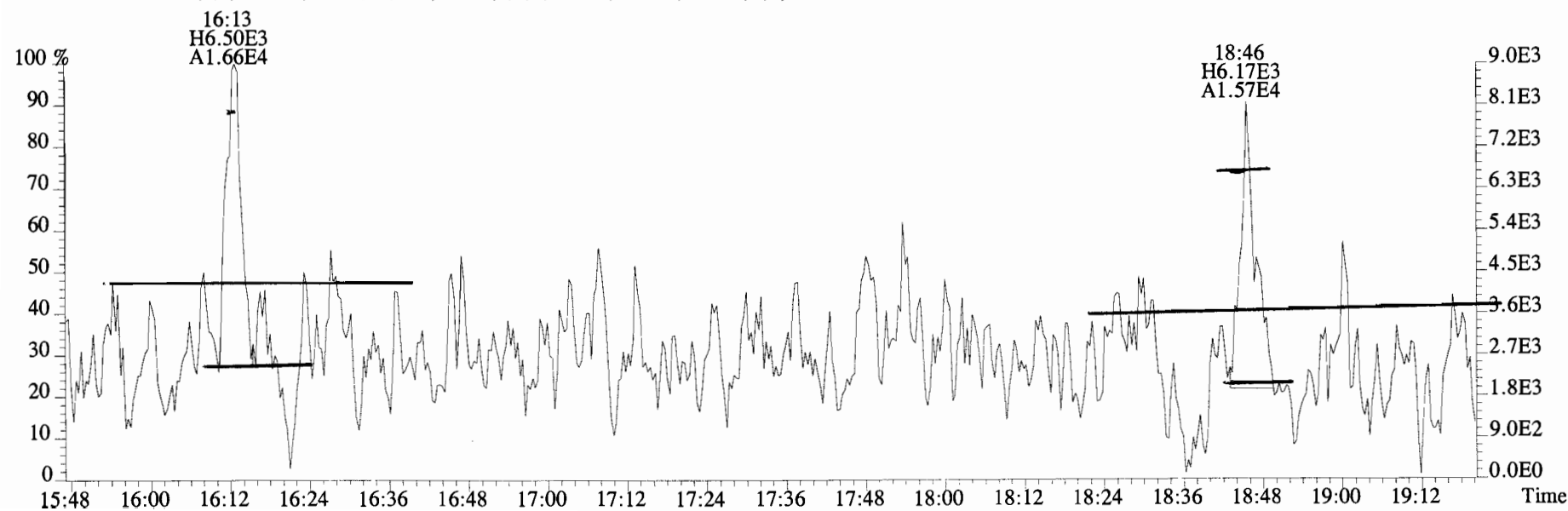
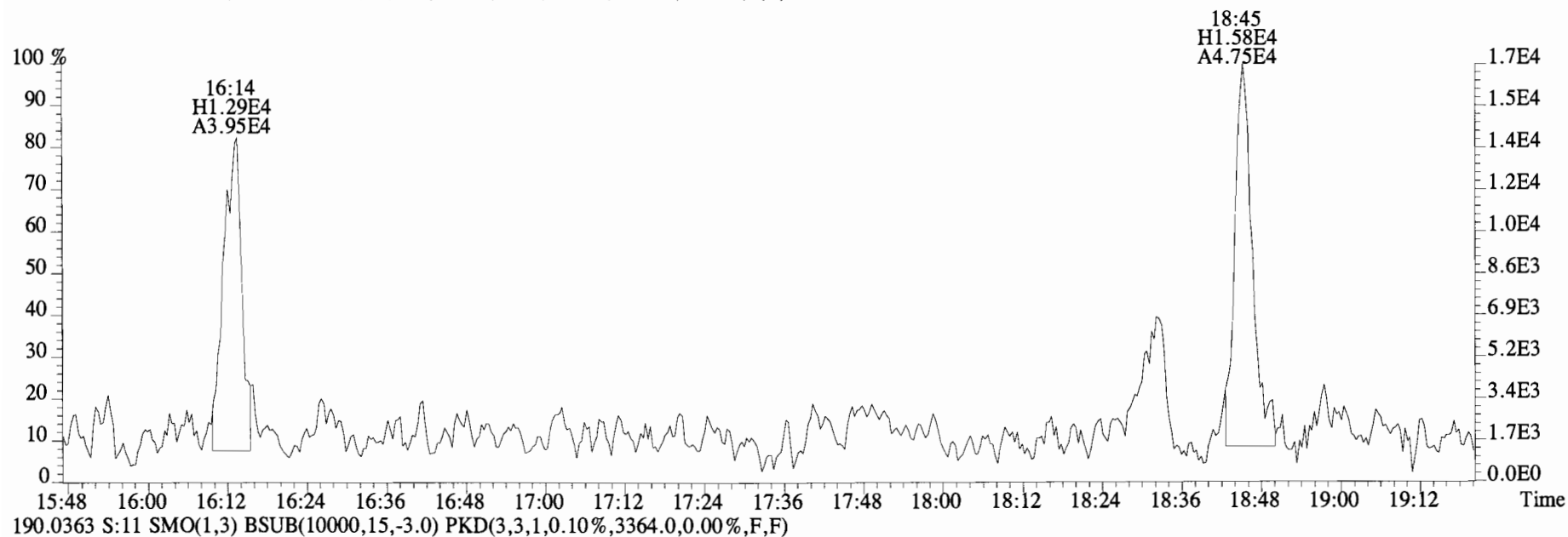
Date: 9/17/14

File:140911E1 #1-728 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
188.0393 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)

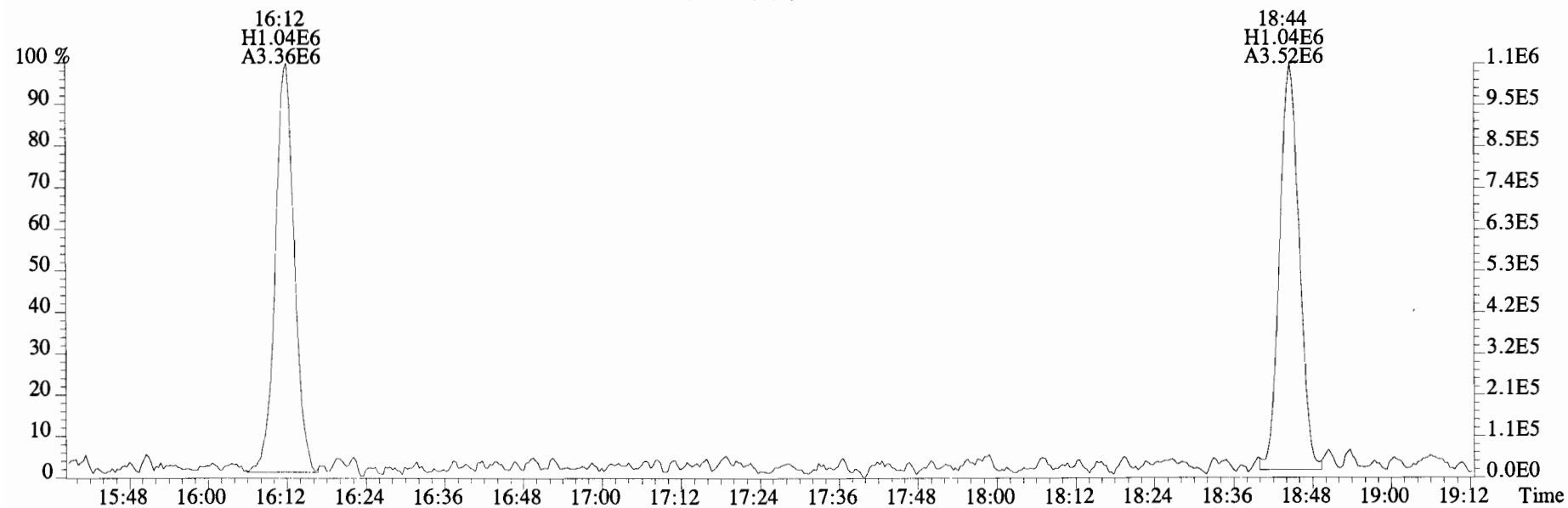
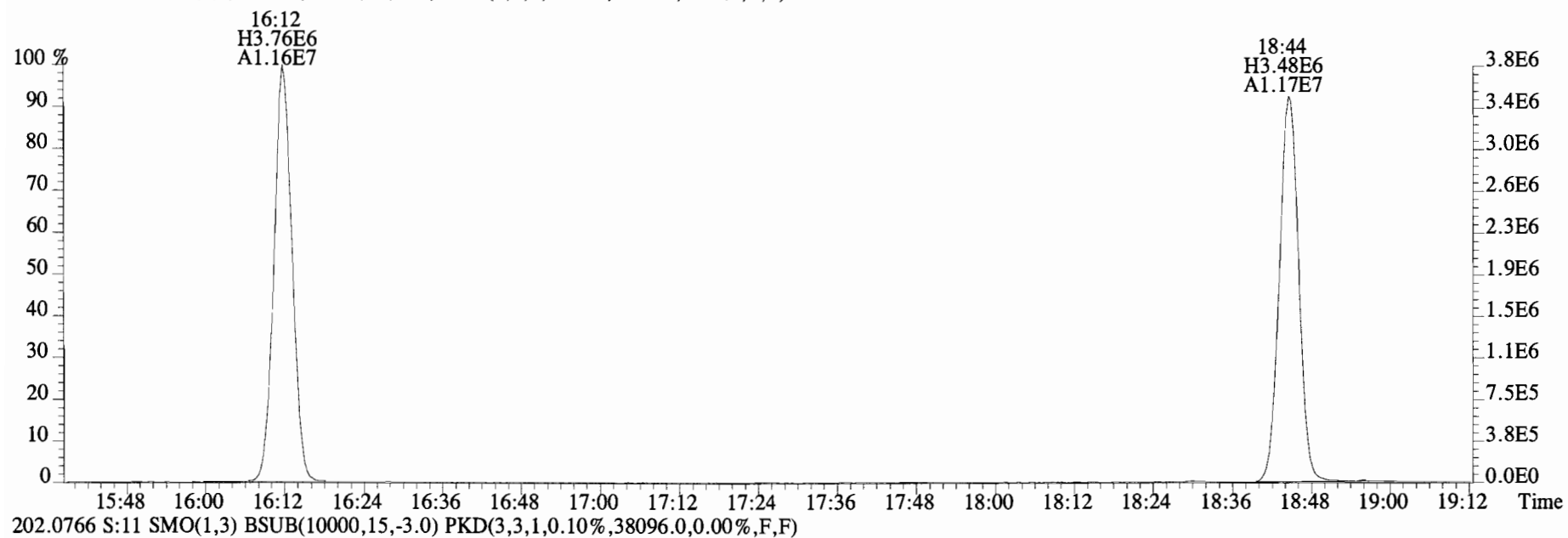




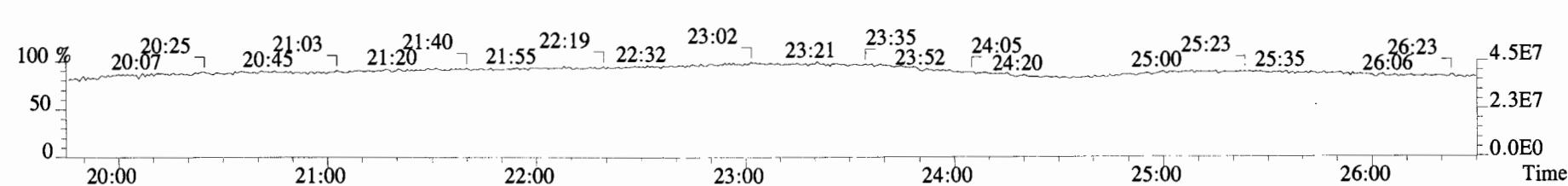
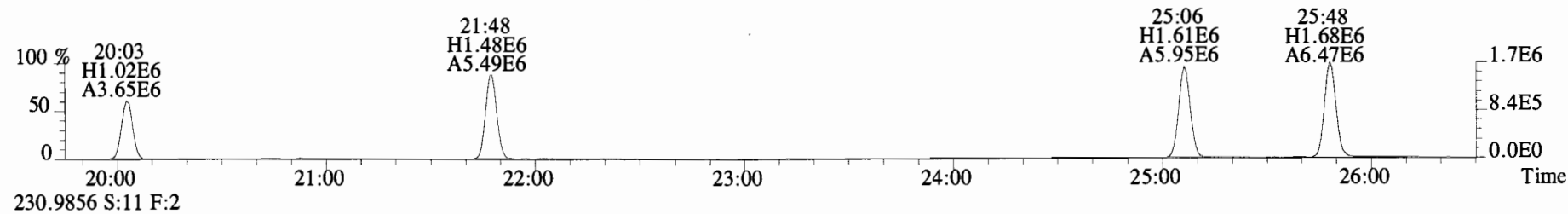
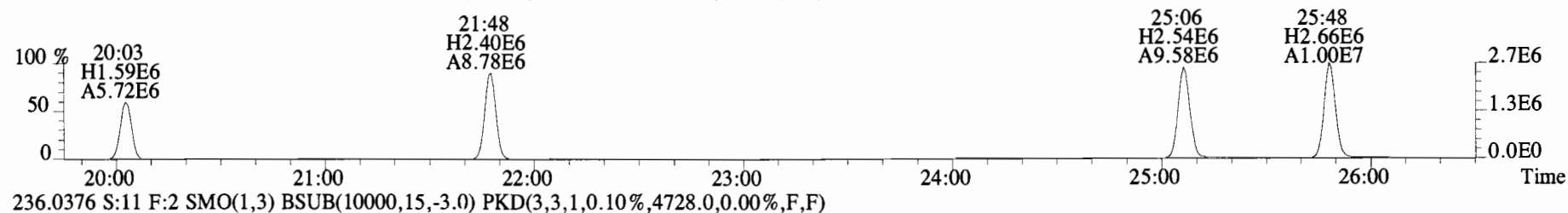
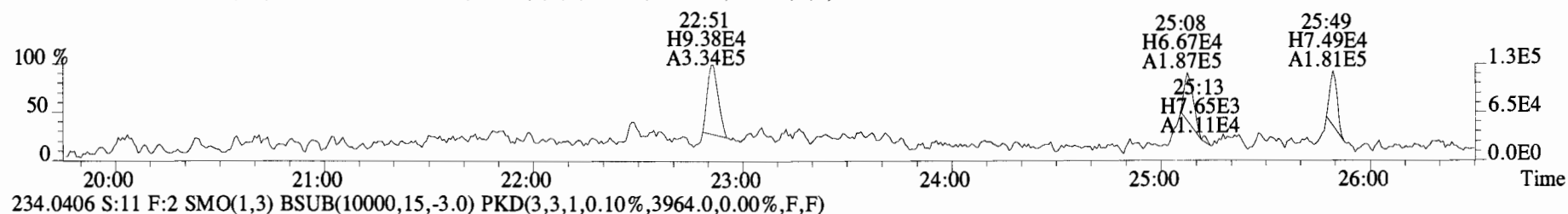
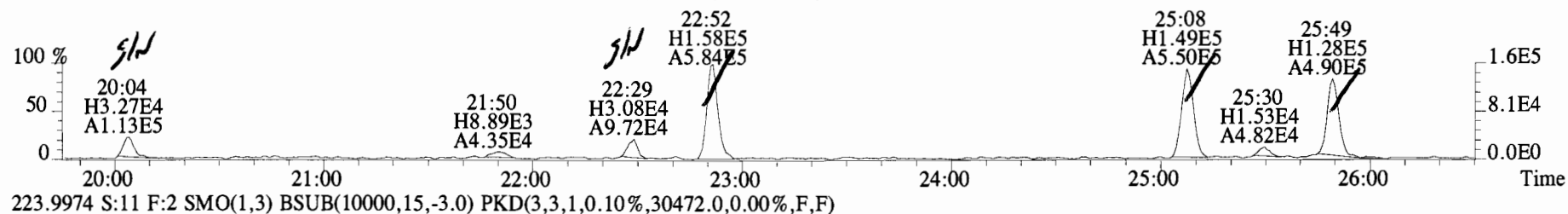
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188.0393 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



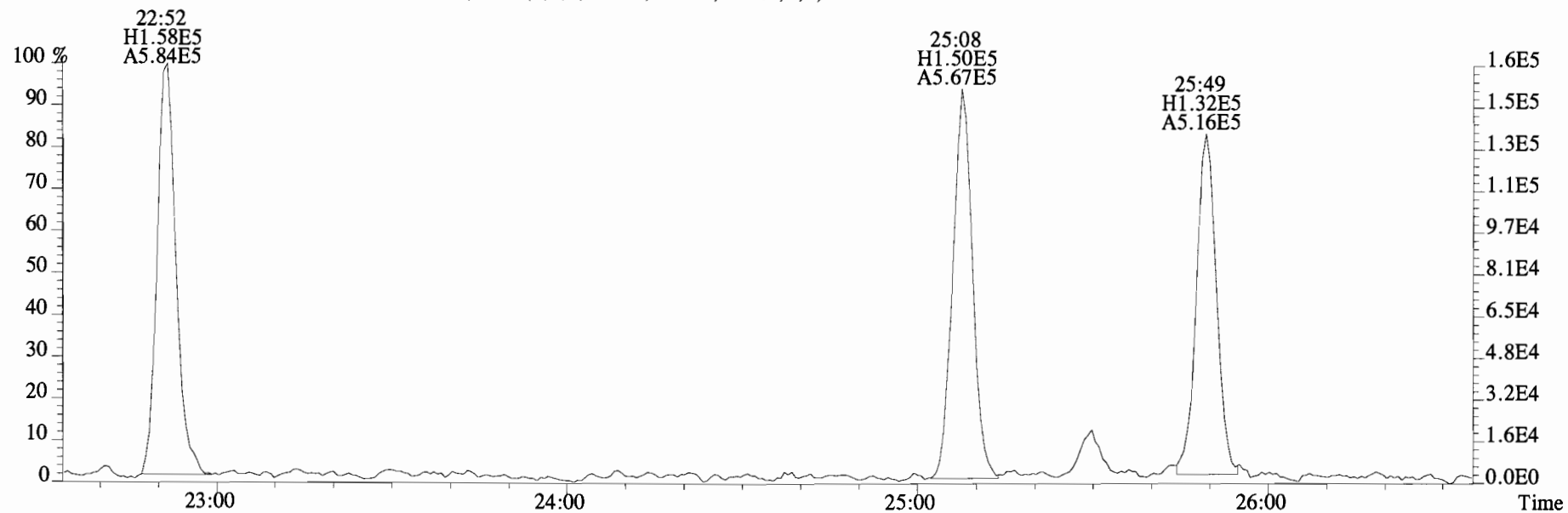
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200.0795 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4544.0,0.00%,F,F)



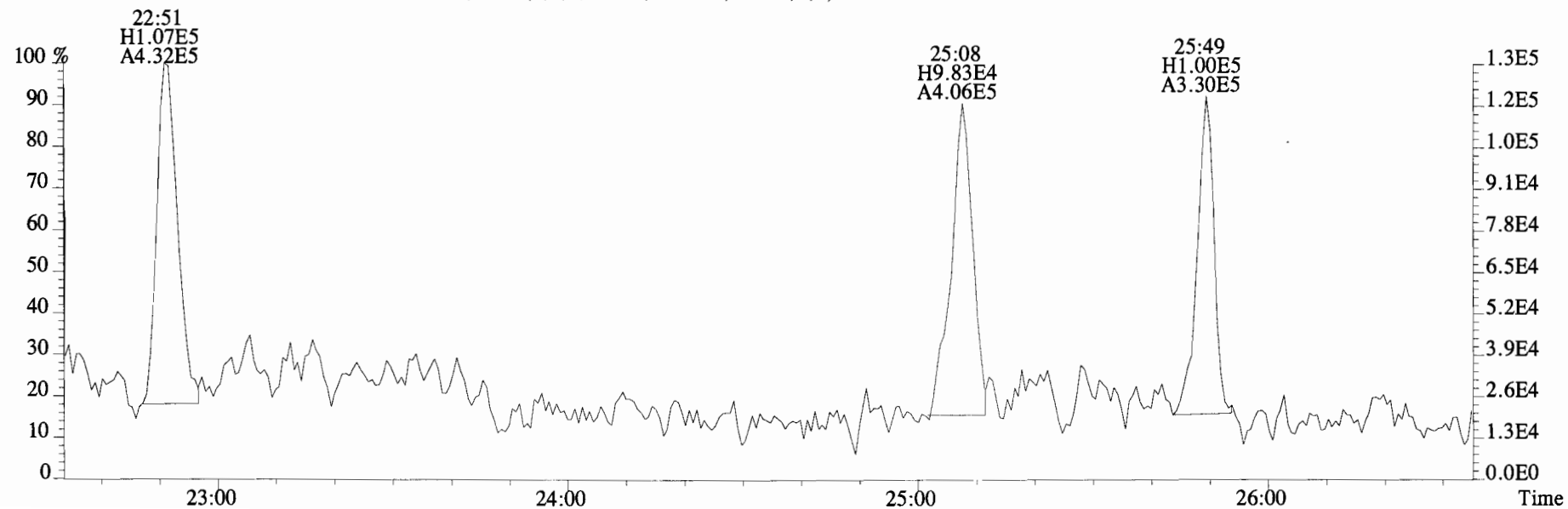
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 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
 222.0003 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



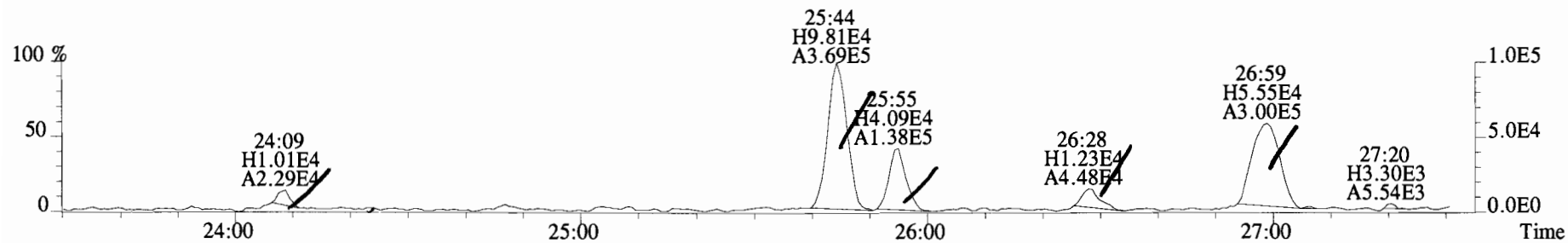
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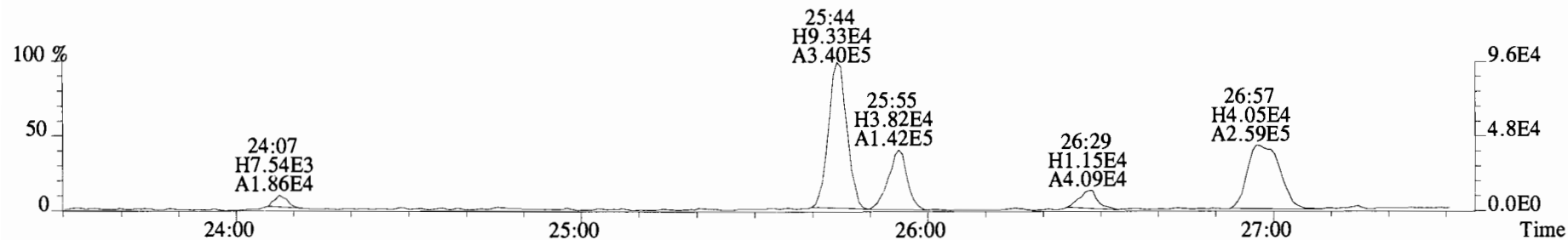
223.9974 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30472.0,0.00%,F,F)



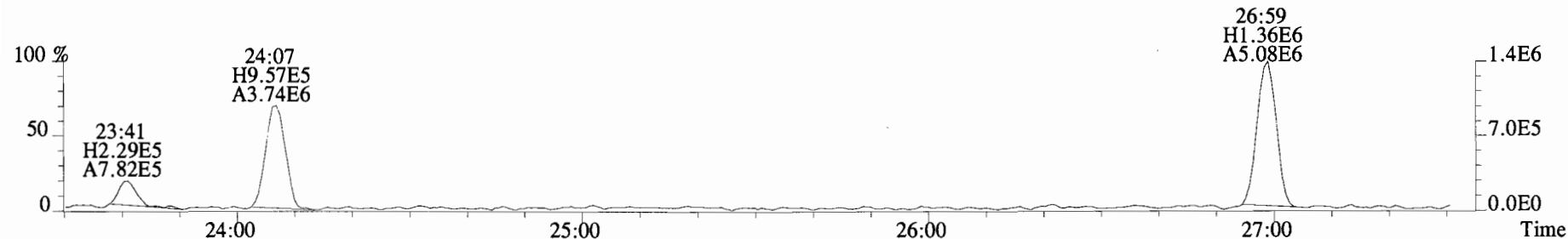
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
255.9613 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2756.0,0.00%,F,F)



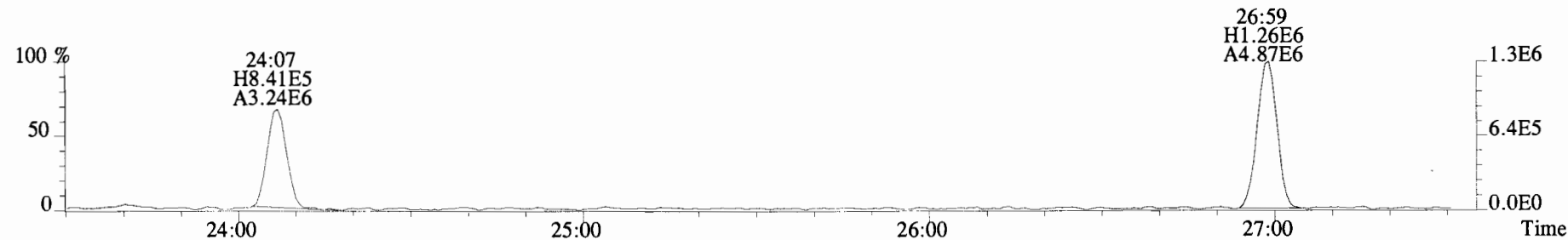
257.9584 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1744.0,0.00%,F,F)



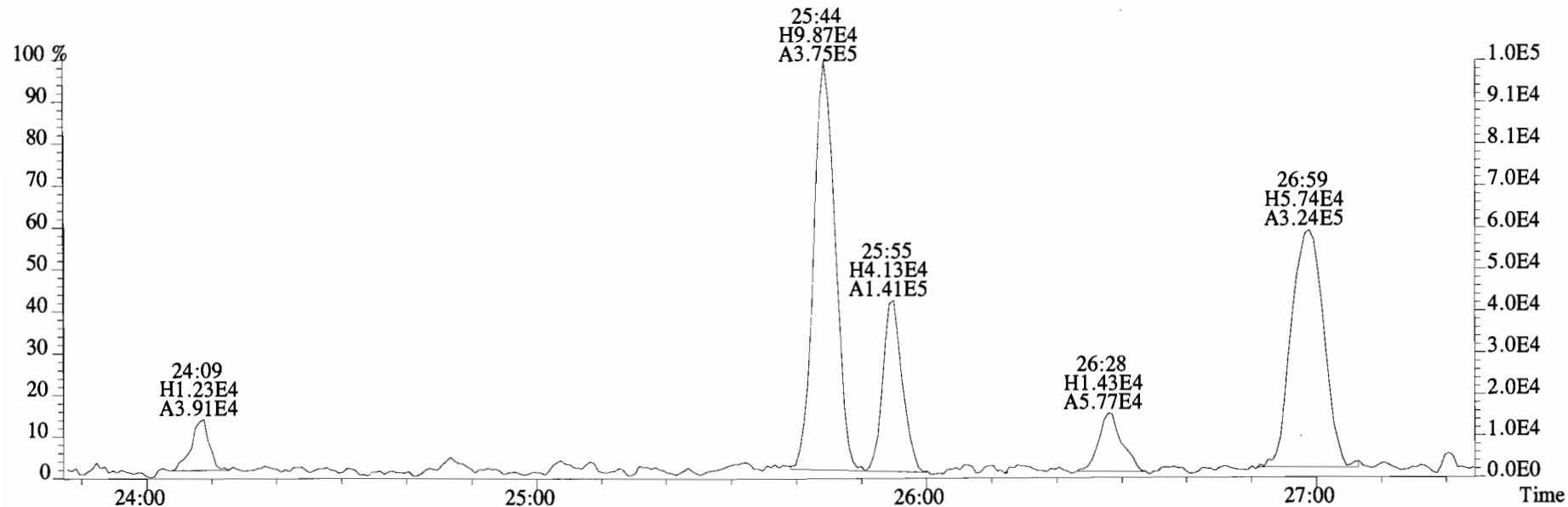
268.0016 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45328.0,0.00%,F,F)



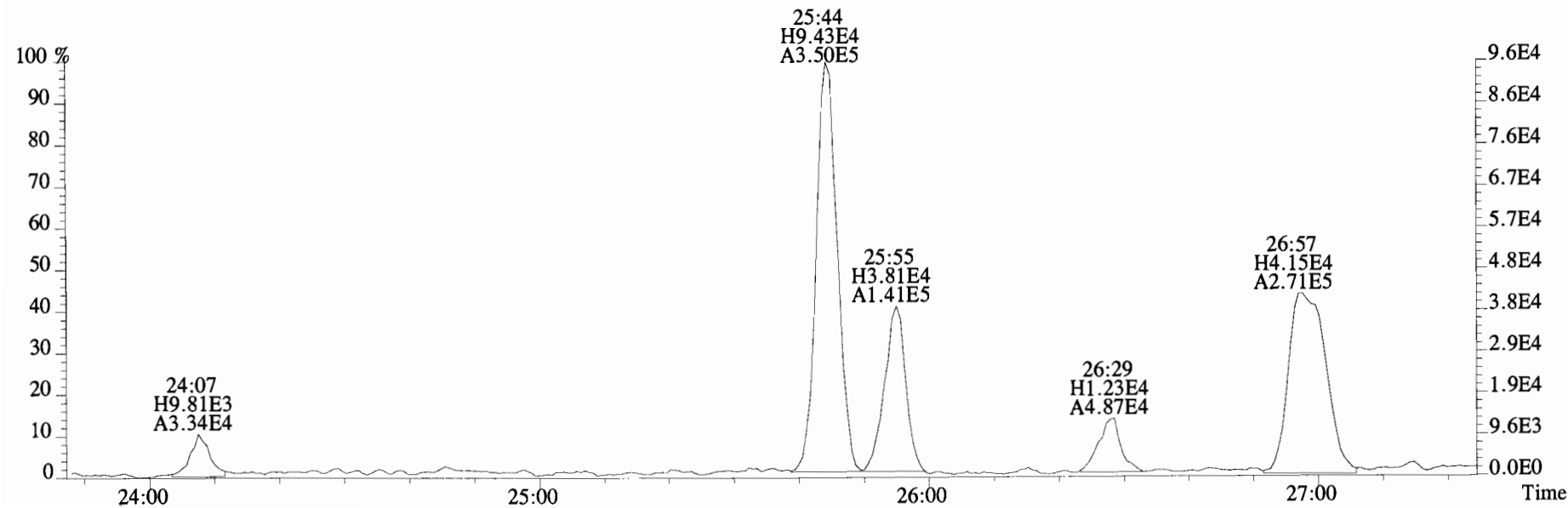
269.9986 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25824.0,0.00%,F,F)



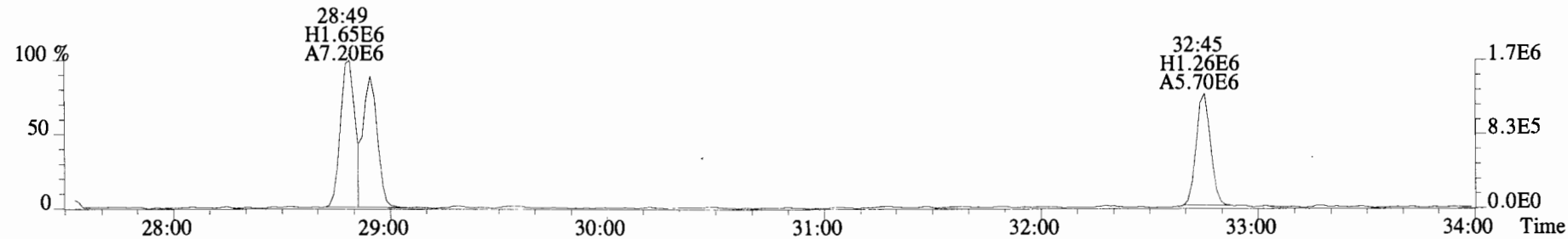
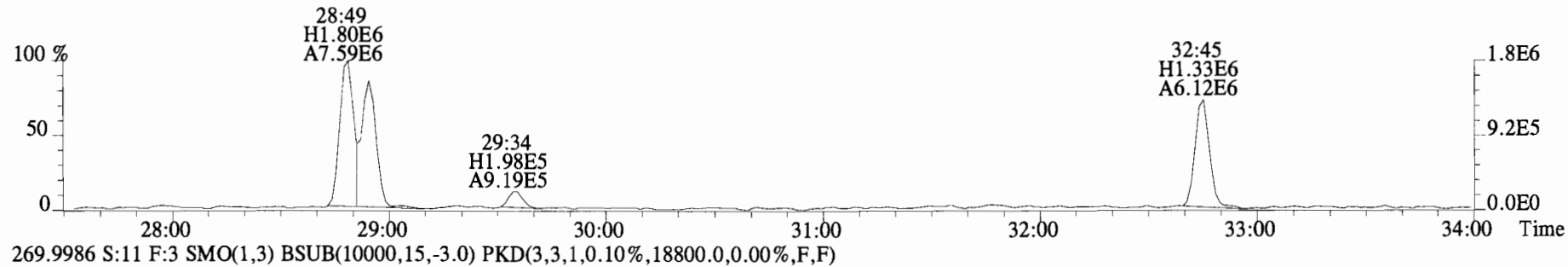
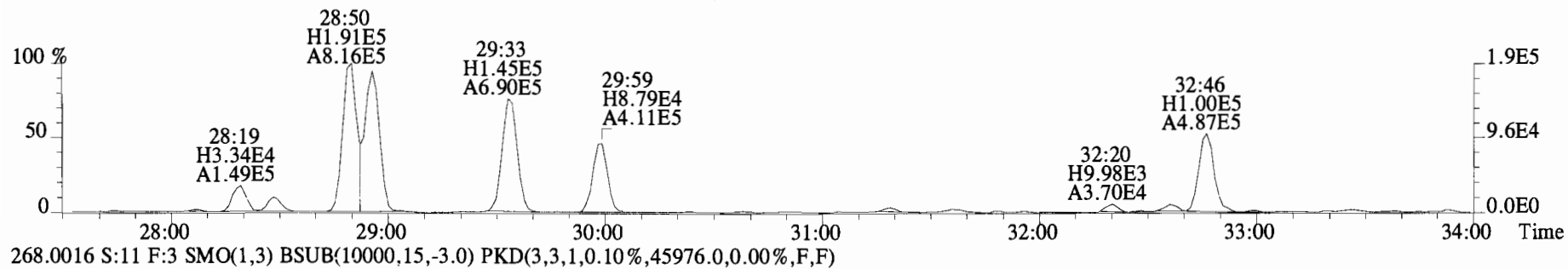
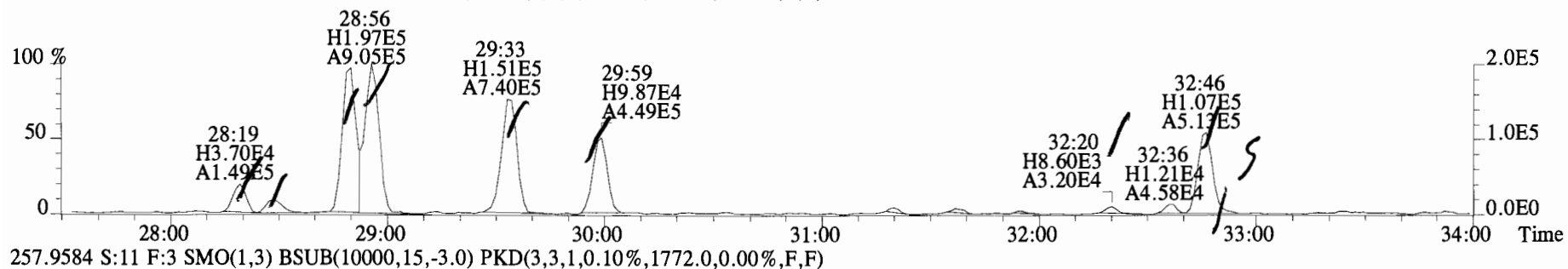
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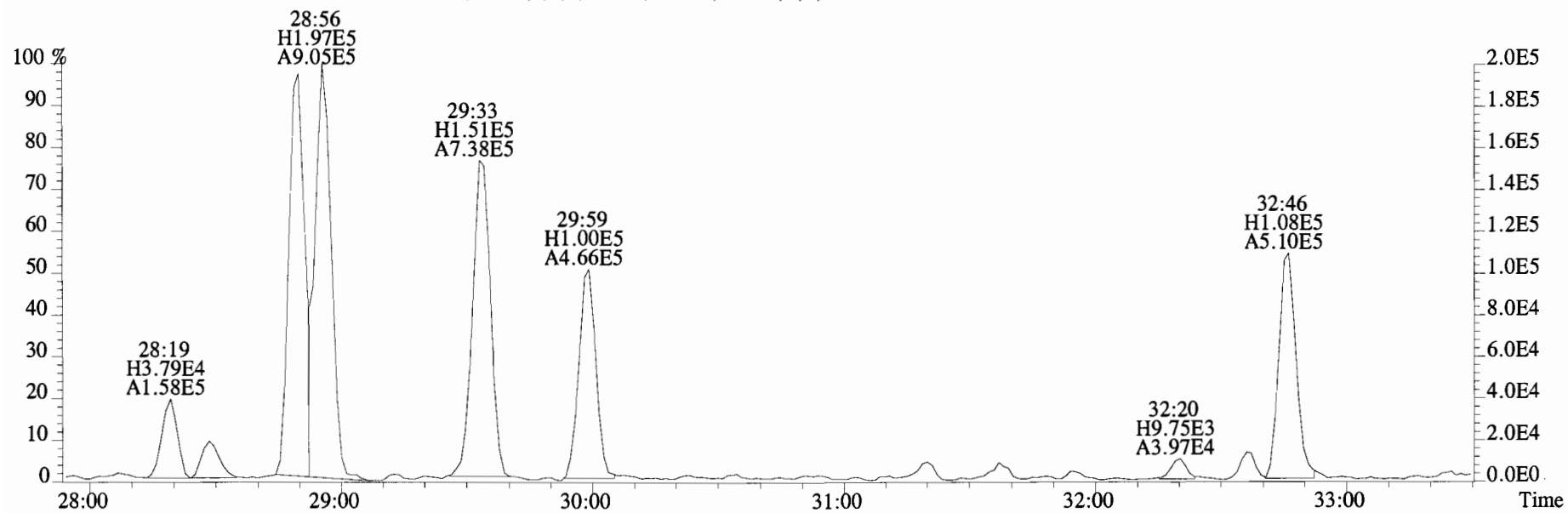
257.9584 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1744.0,0.00%,F,F)



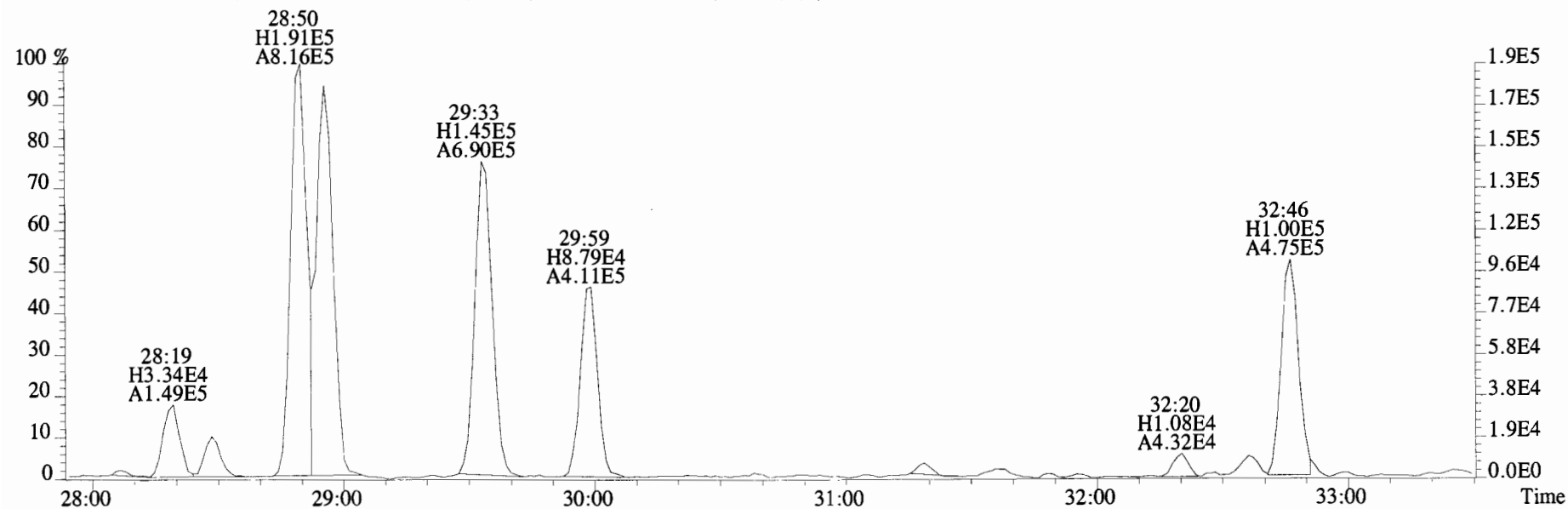
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 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
 255.9613 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2732.0,0.00%,F,F)



File:140911E1 #1-747 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
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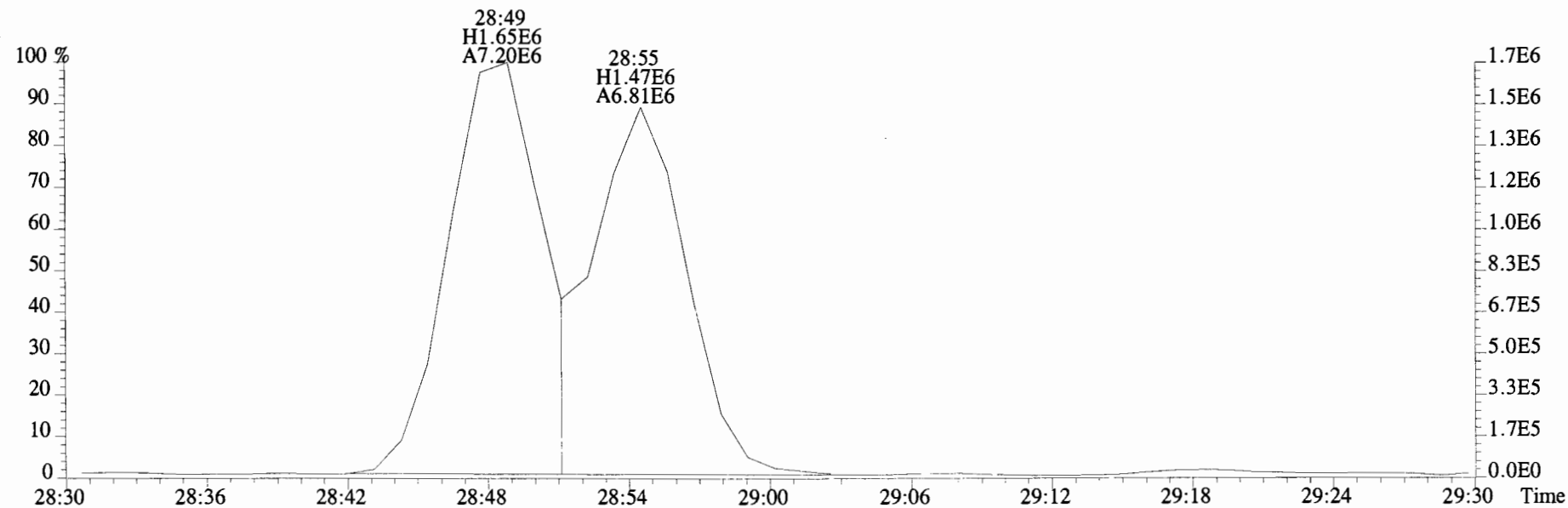
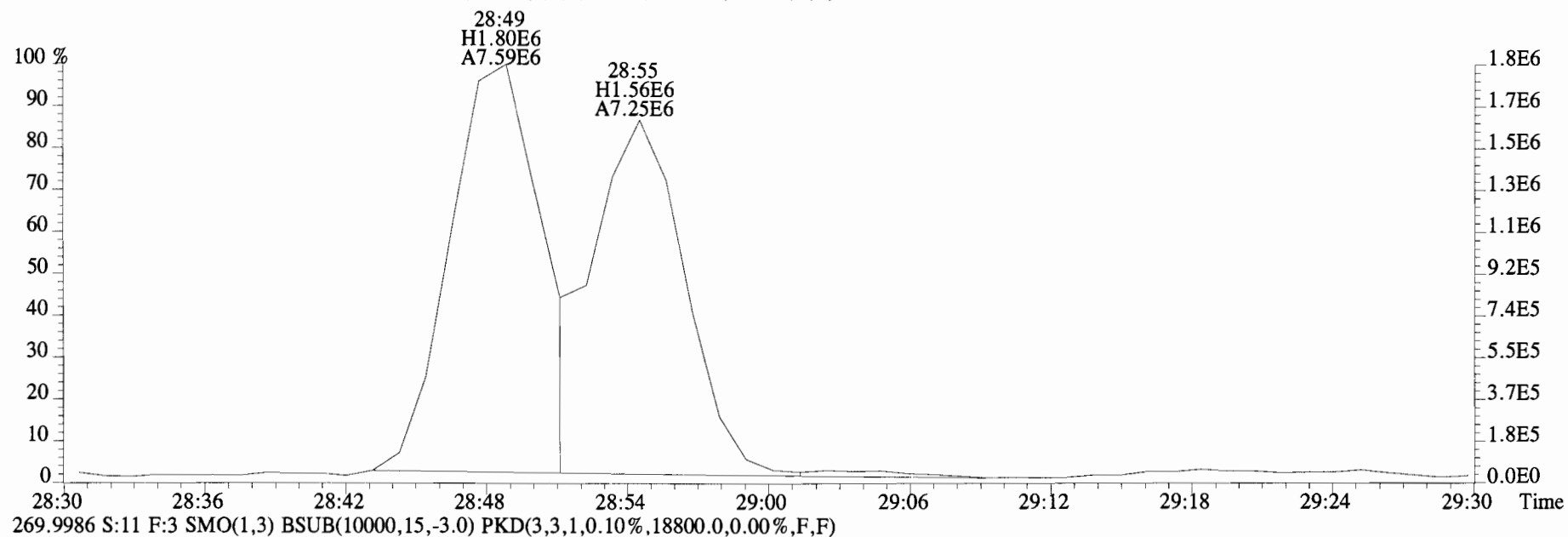


257.9584 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)

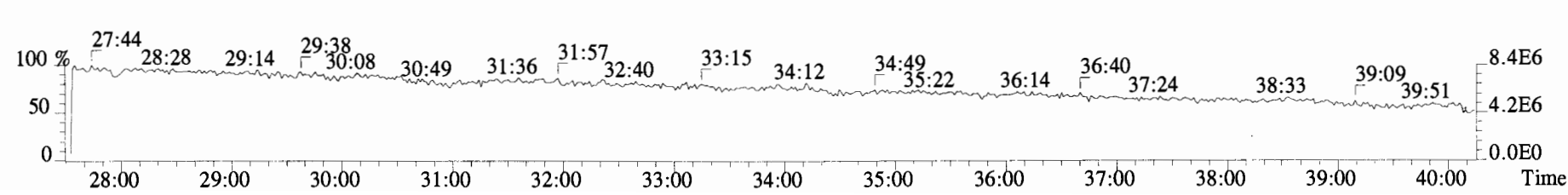
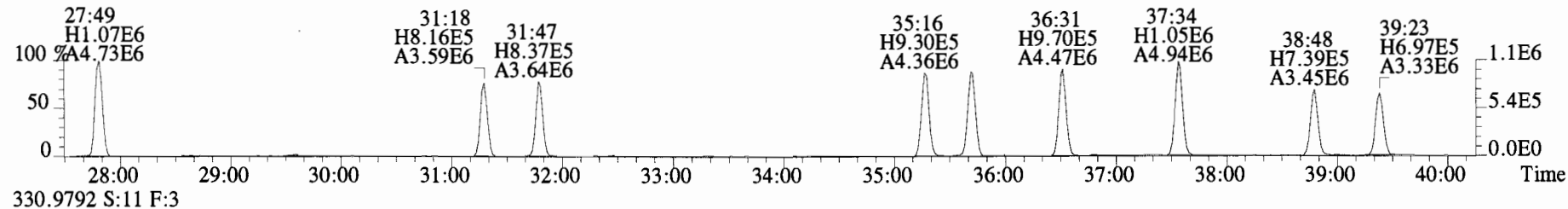
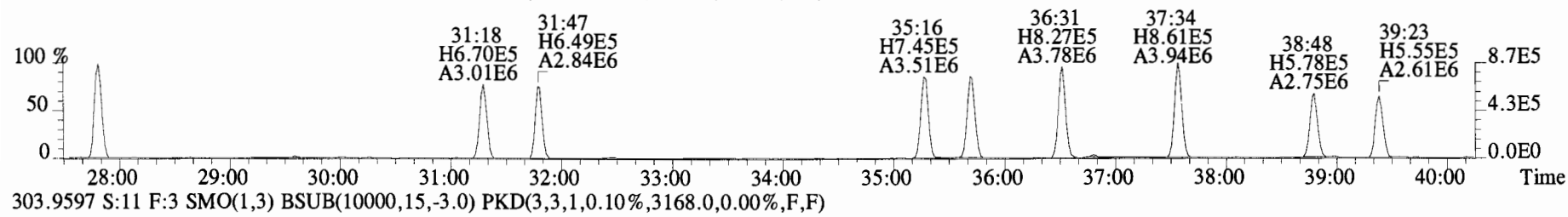
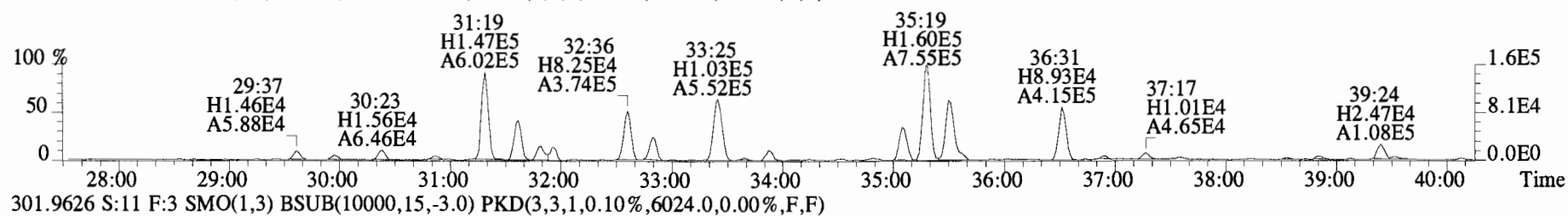
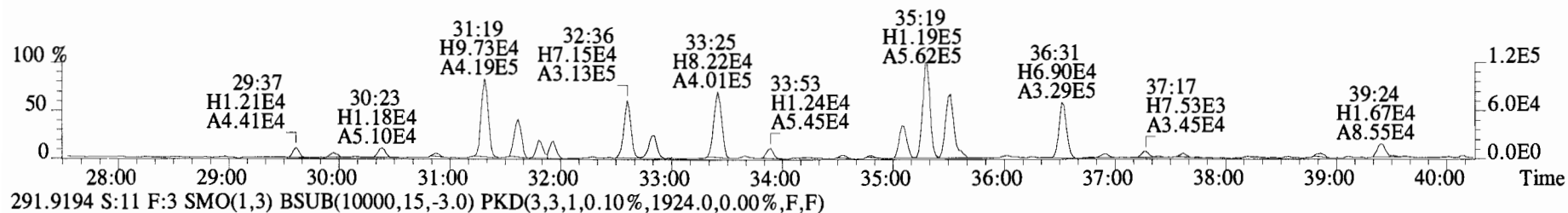




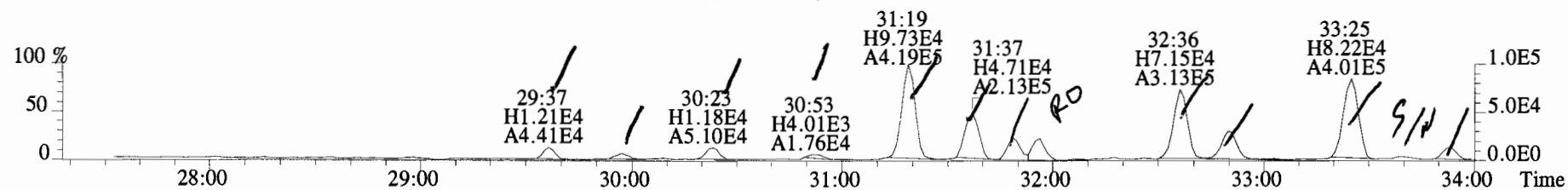
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Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
268.0016 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45976.0,0.00%,F,F)



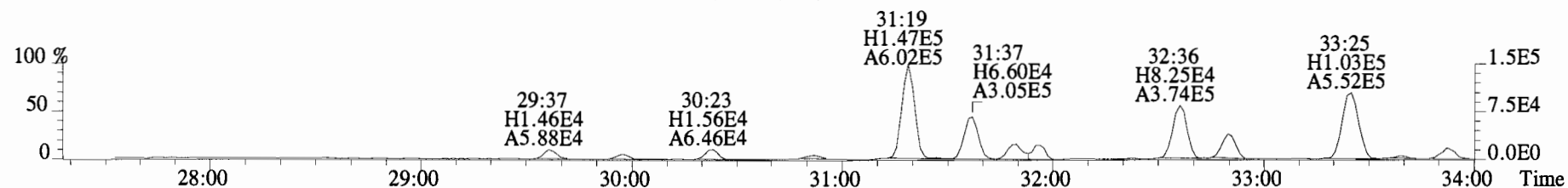
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 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
 289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



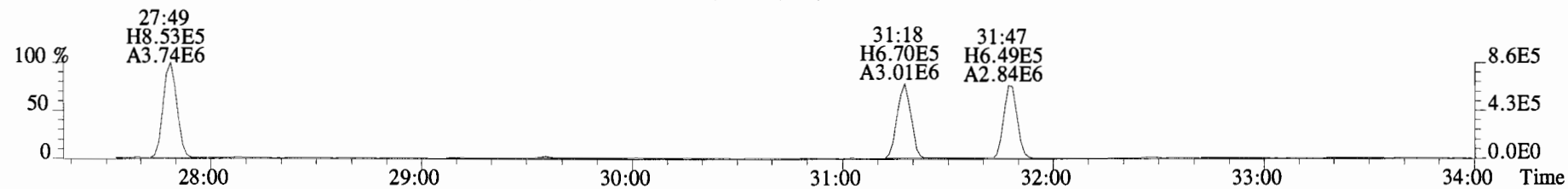
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 Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
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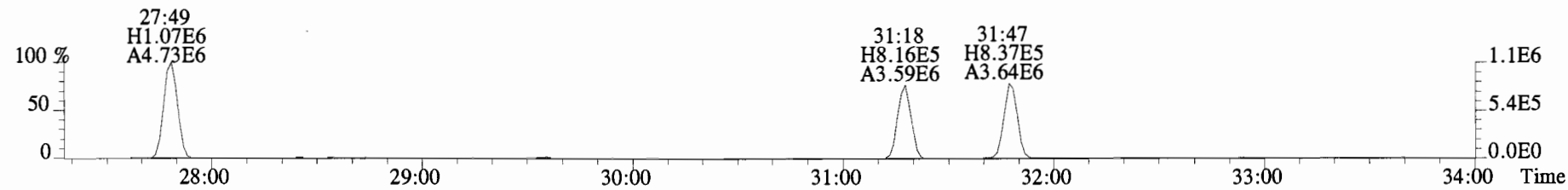
291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



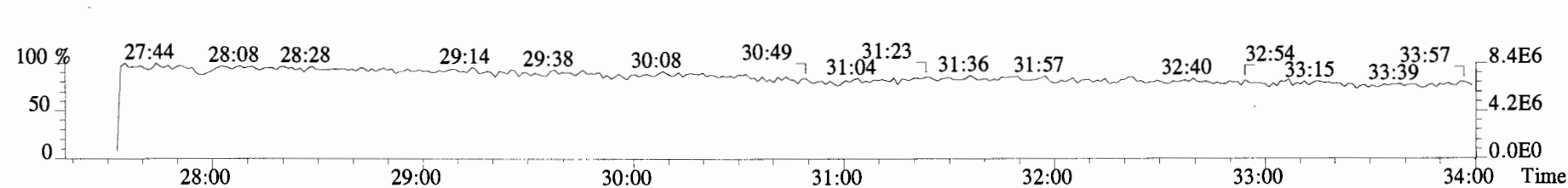
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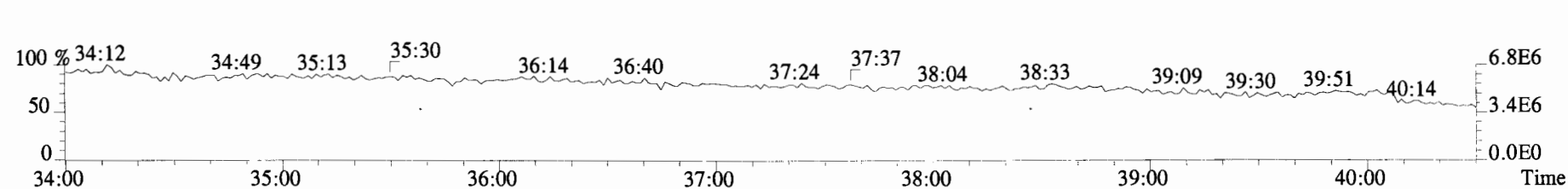
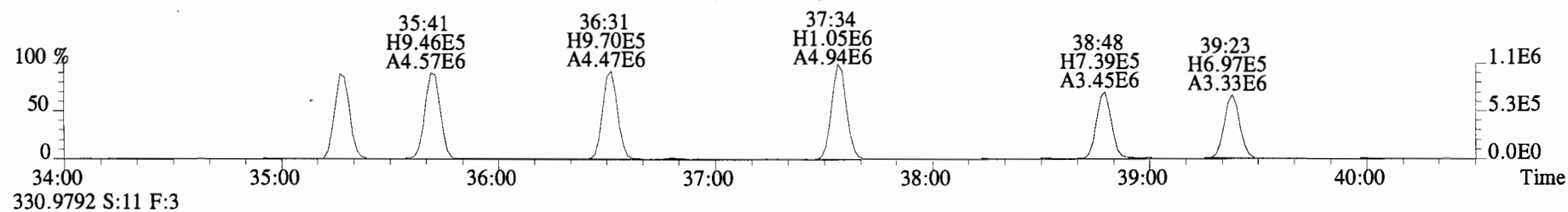
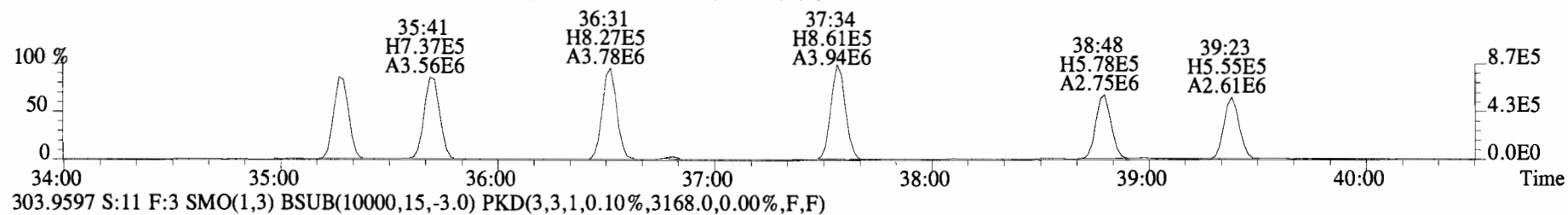
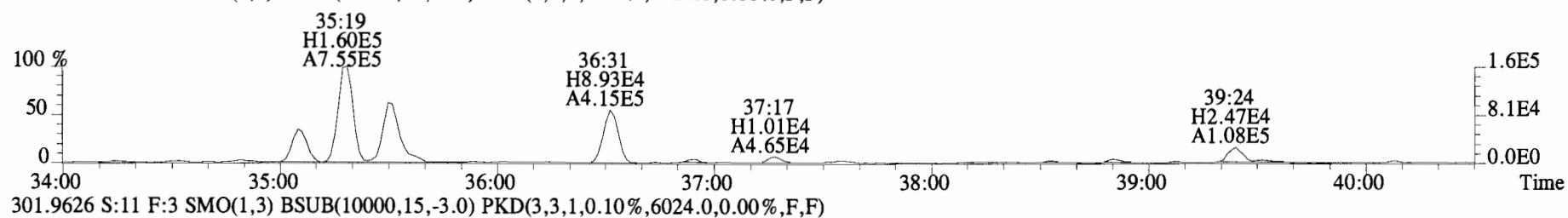
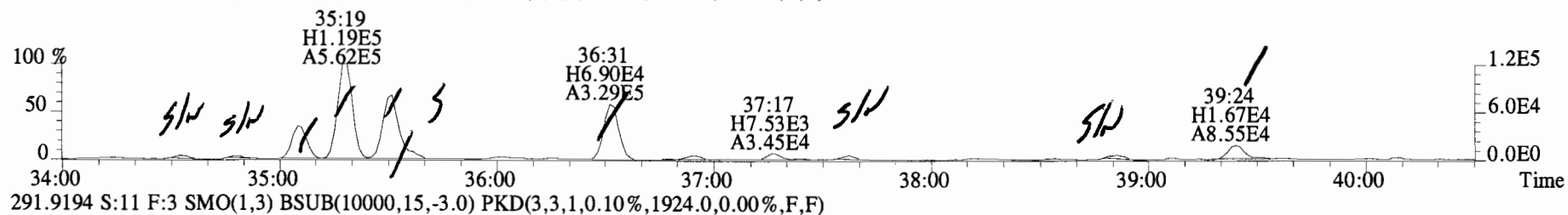
303.9597 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3168.0,0.00%,F,F)



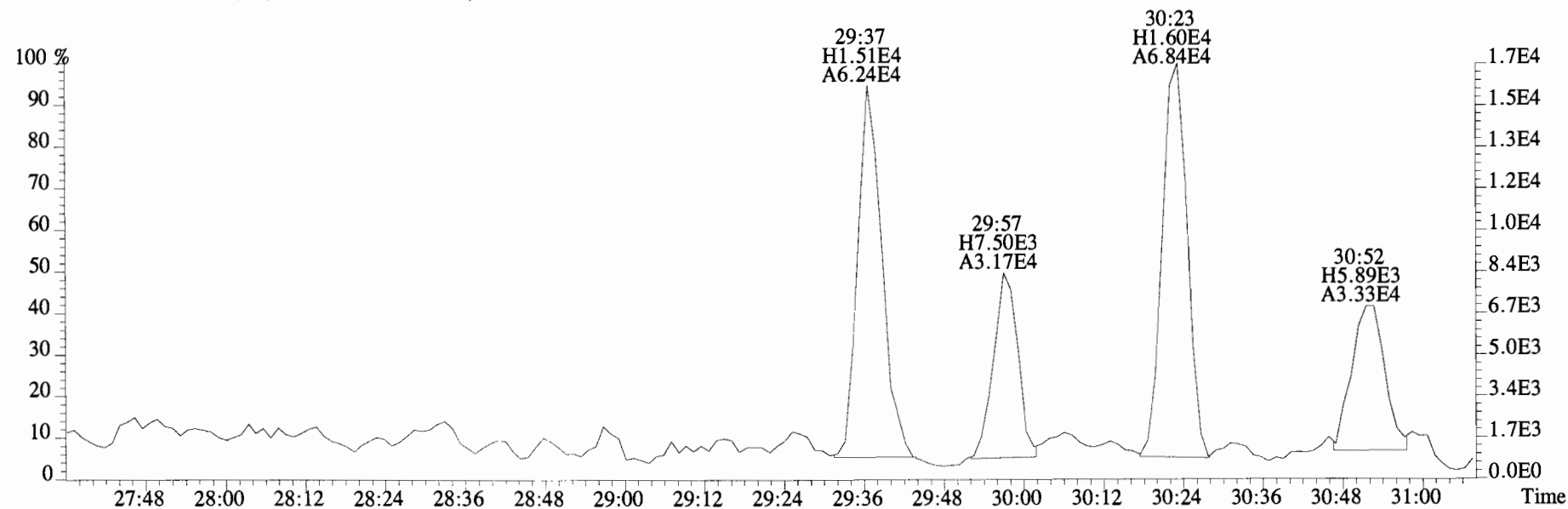
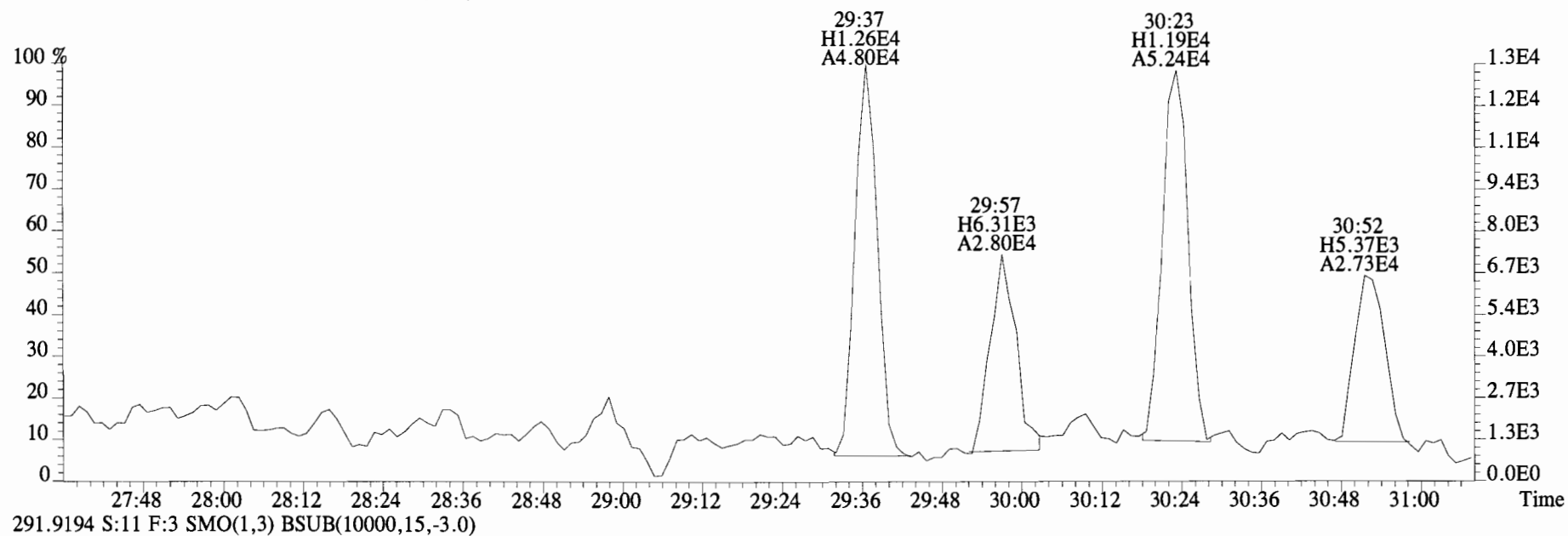
330.9792 S:11 F:3



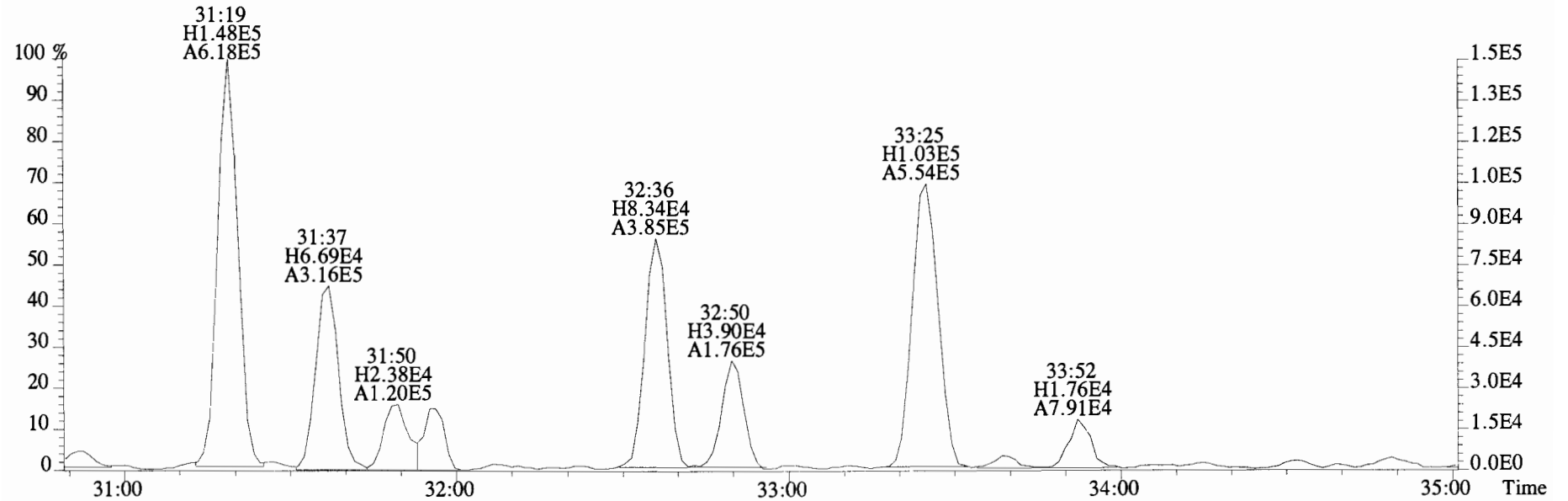
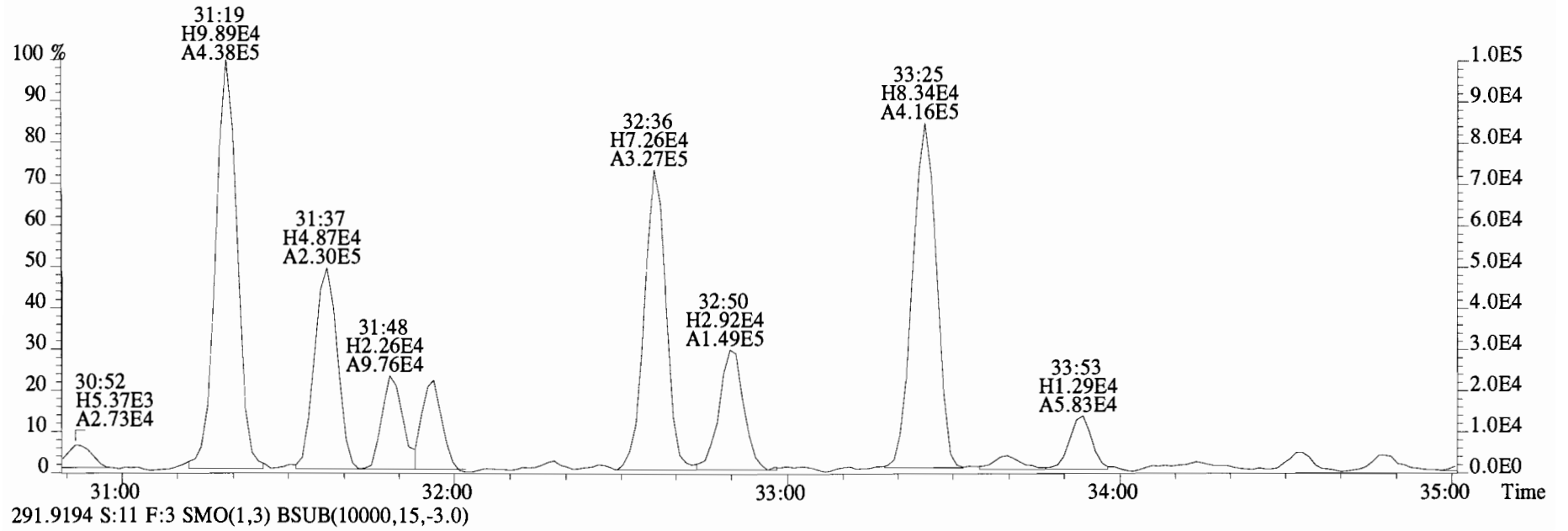
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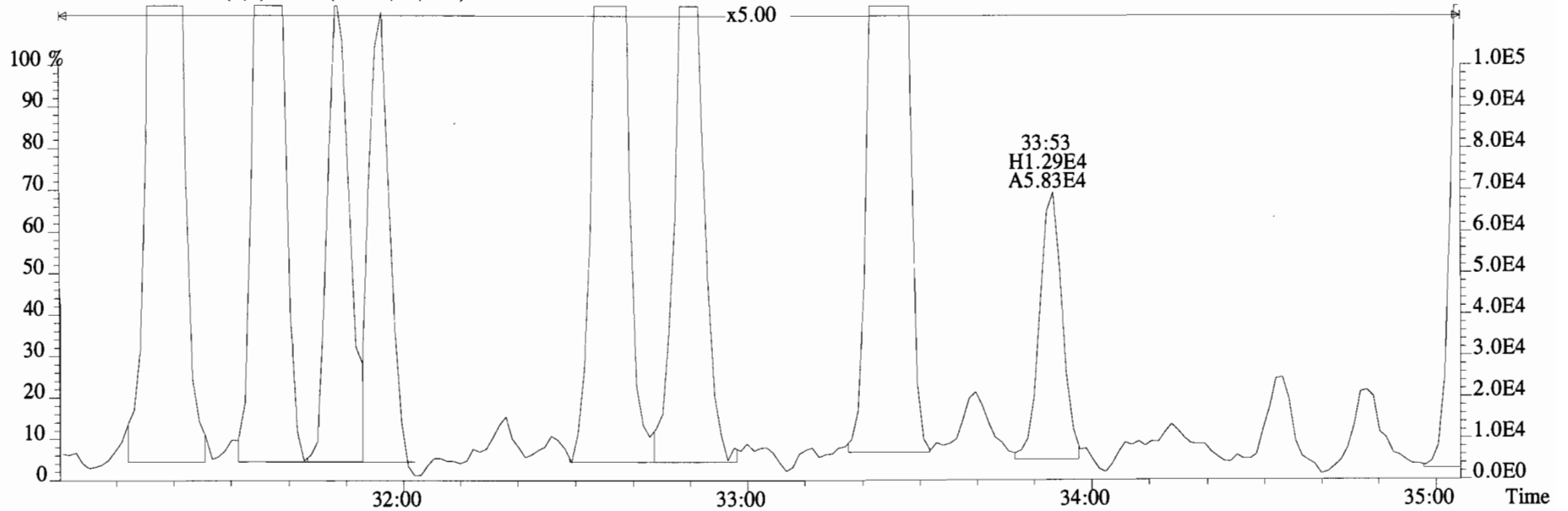
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289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



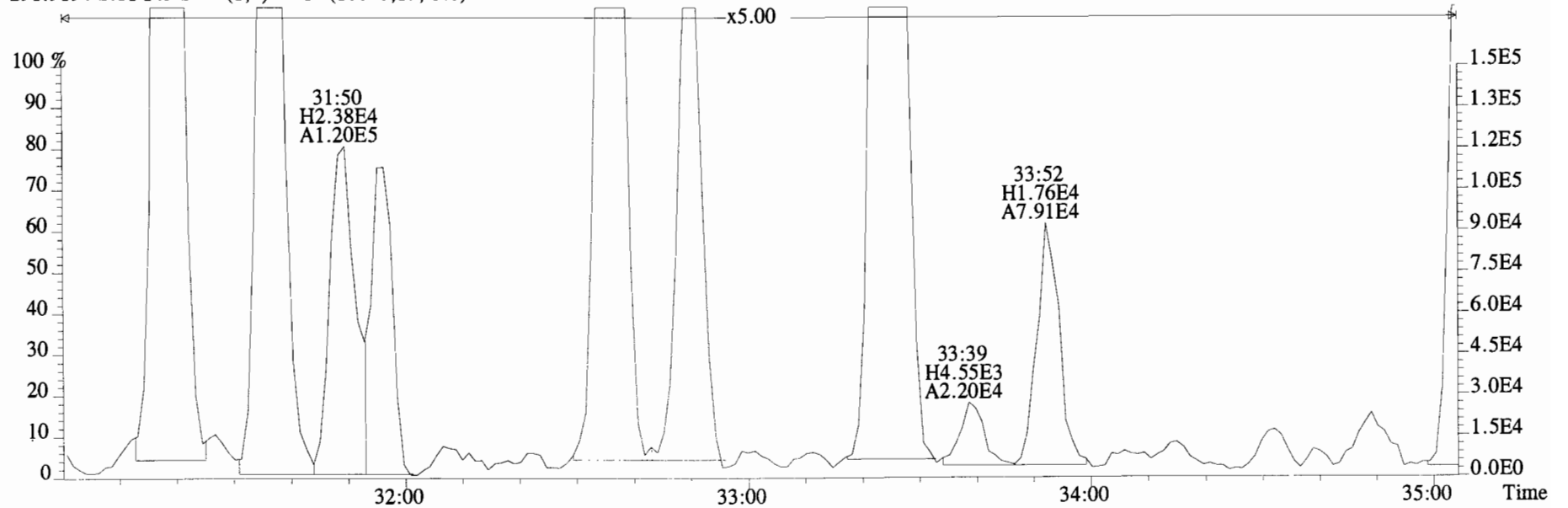
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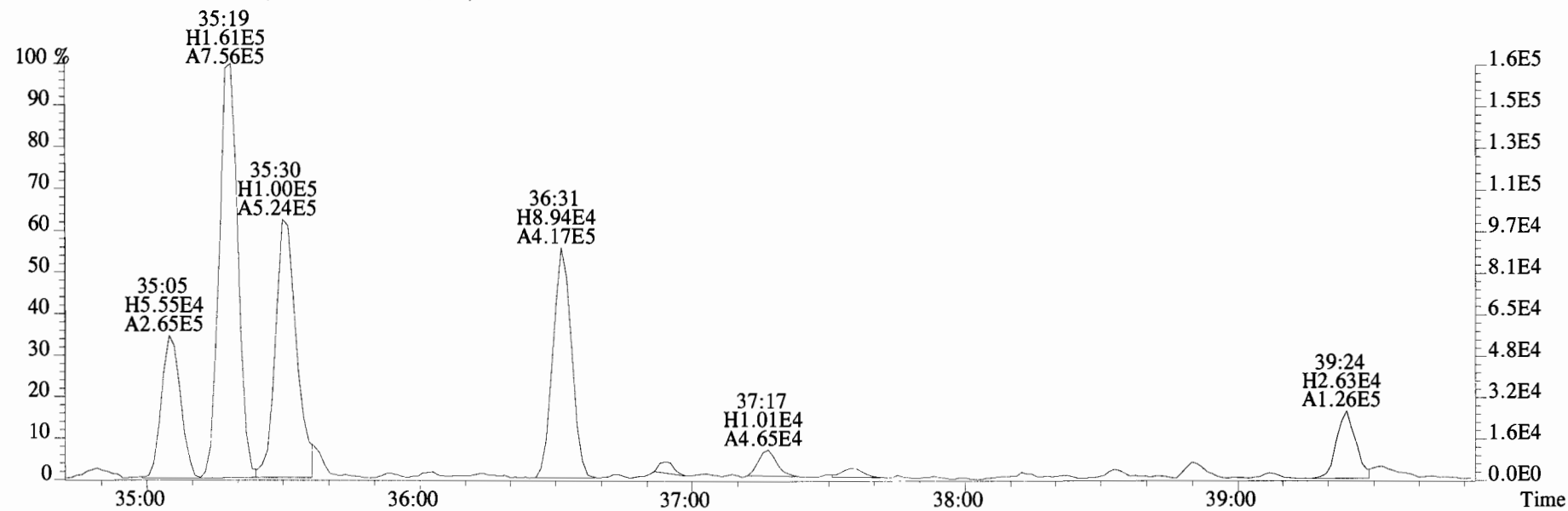
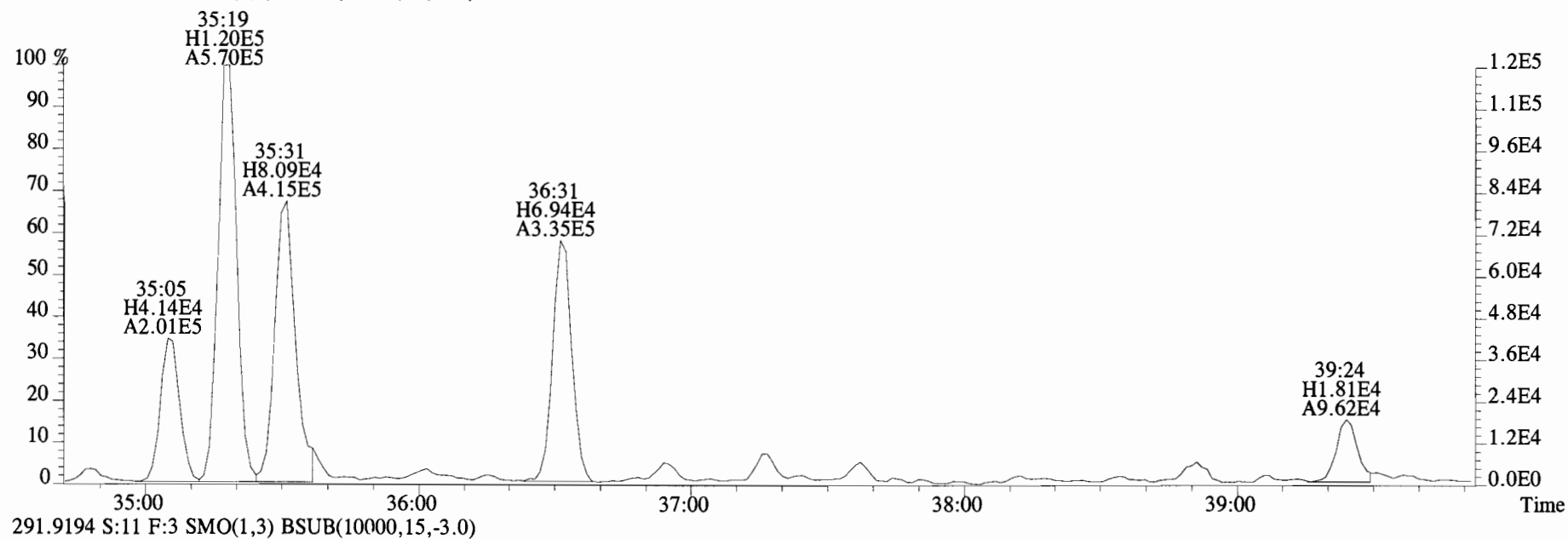
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291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)

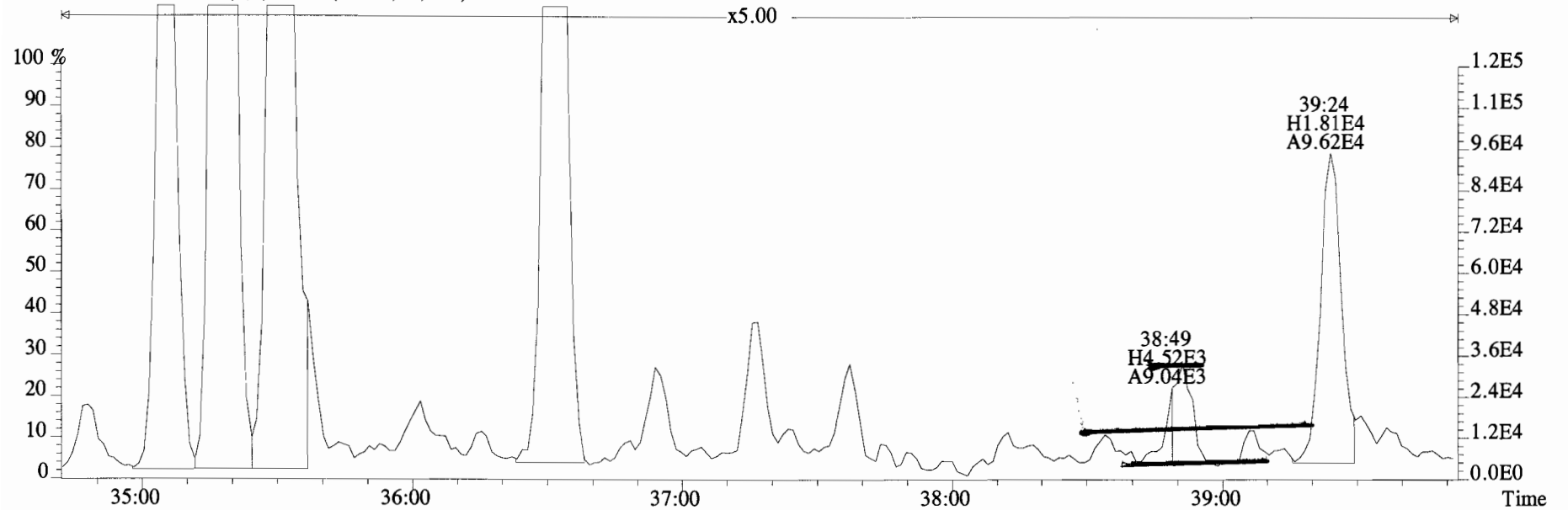


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289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)

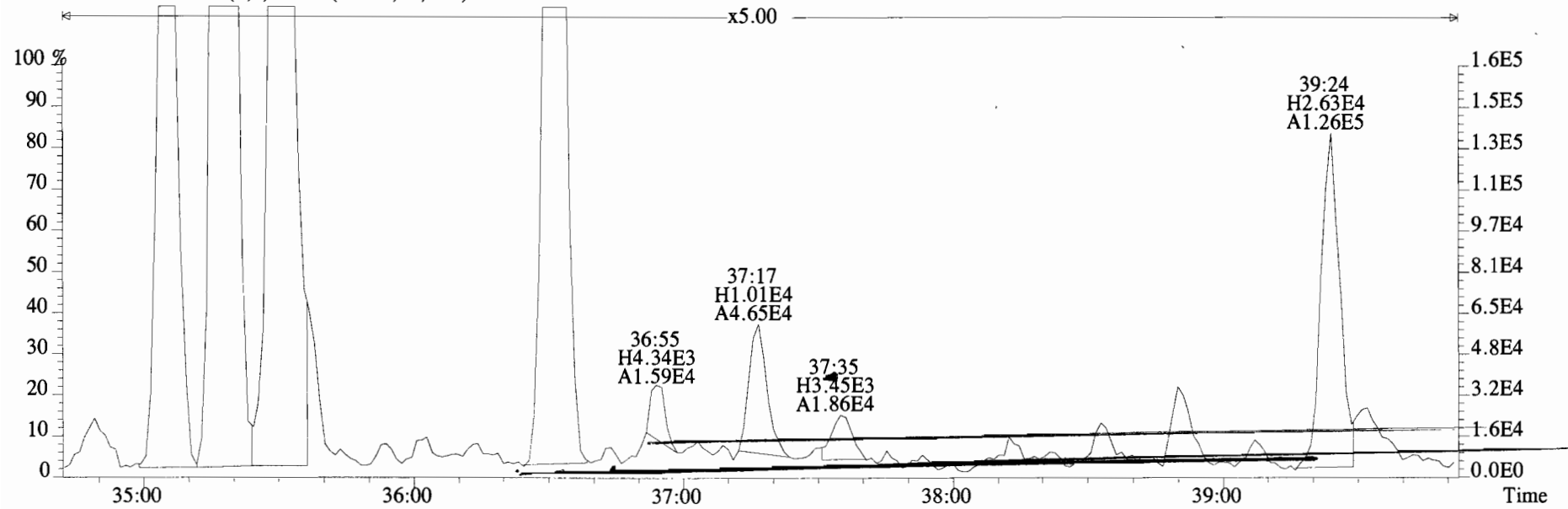




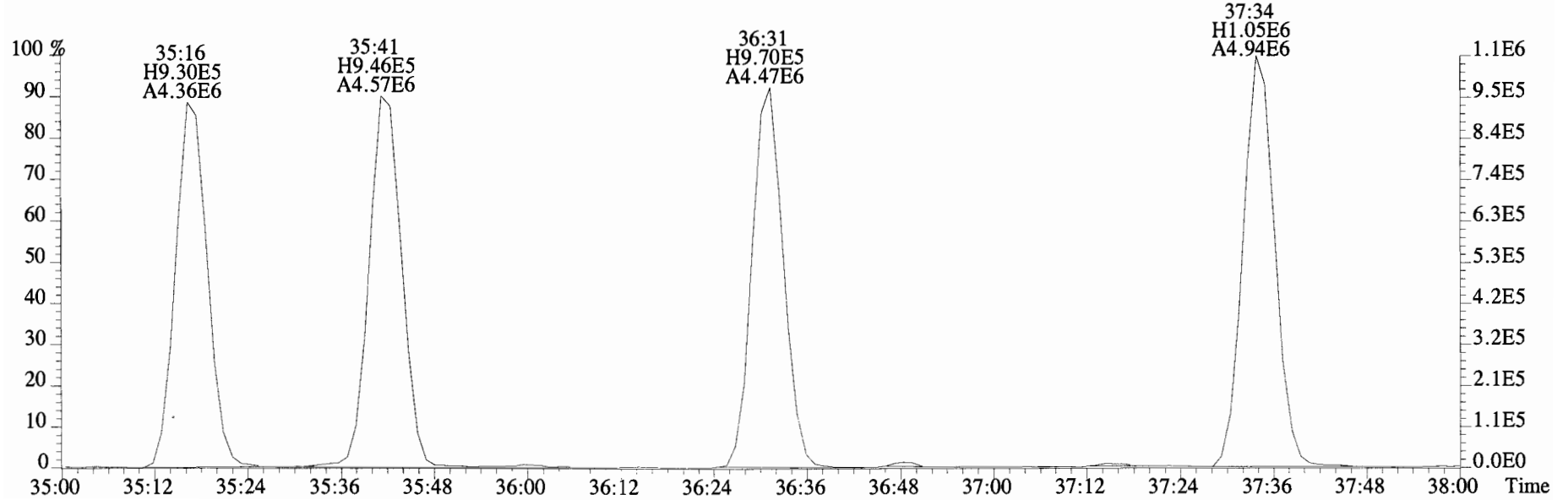
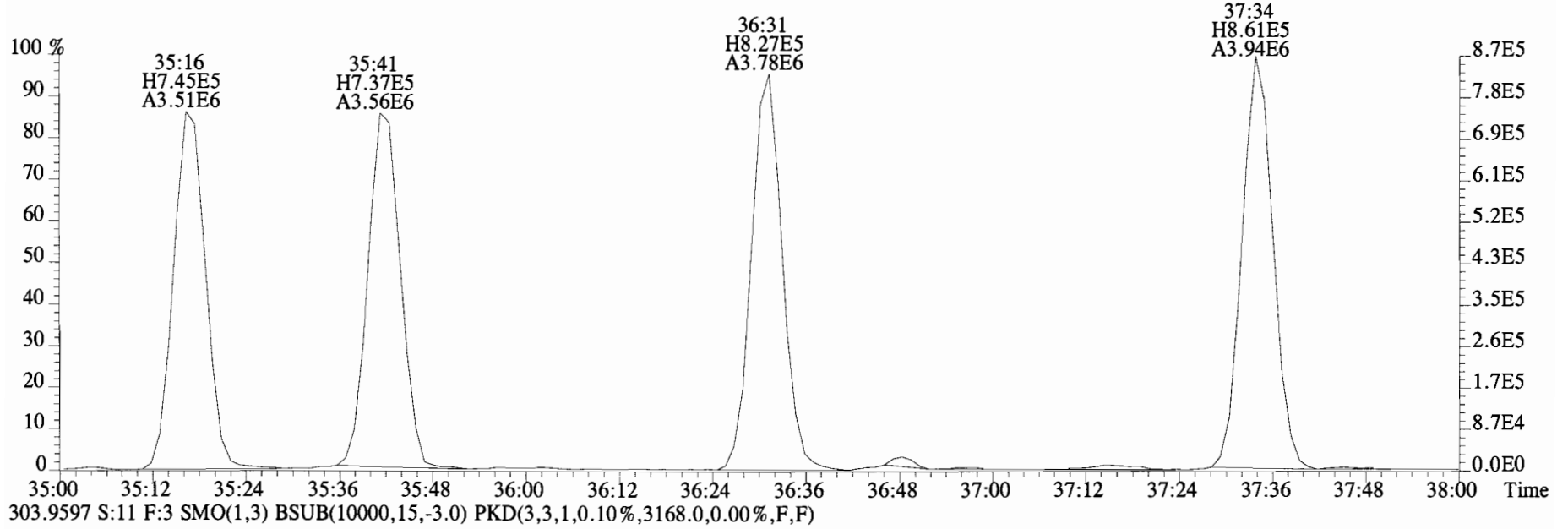
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289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



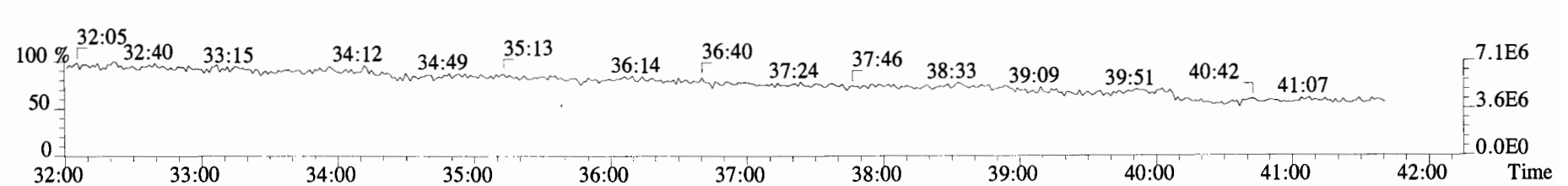
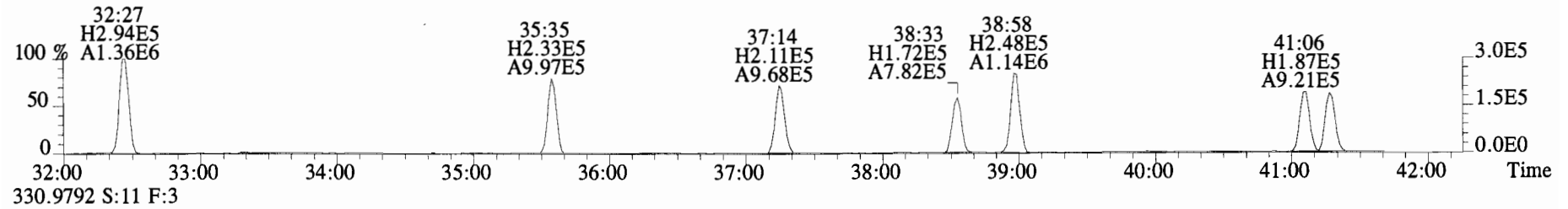
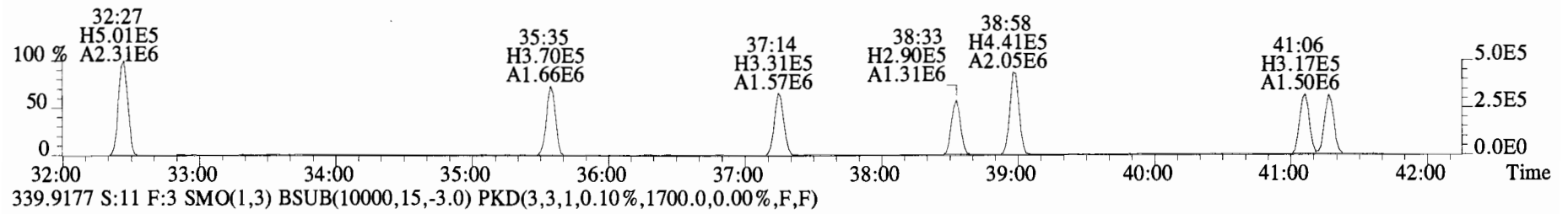
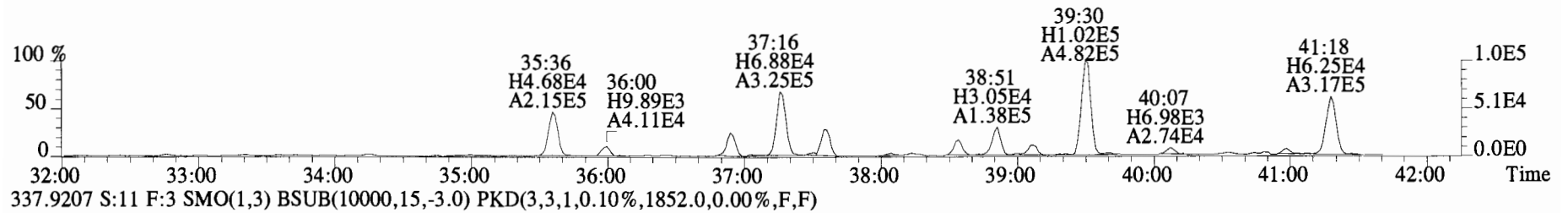
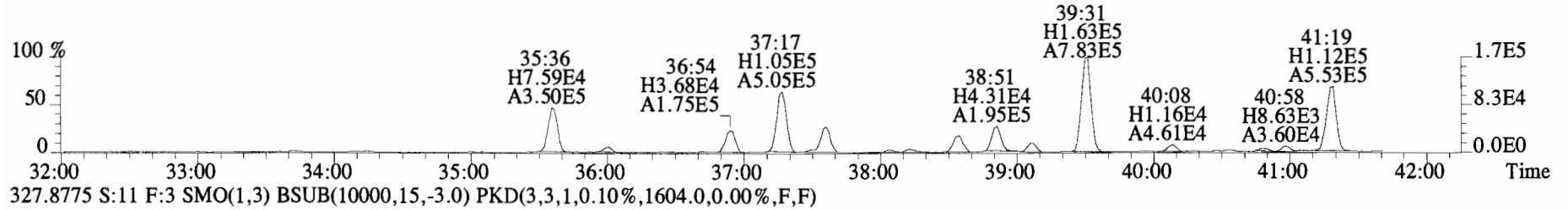
291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



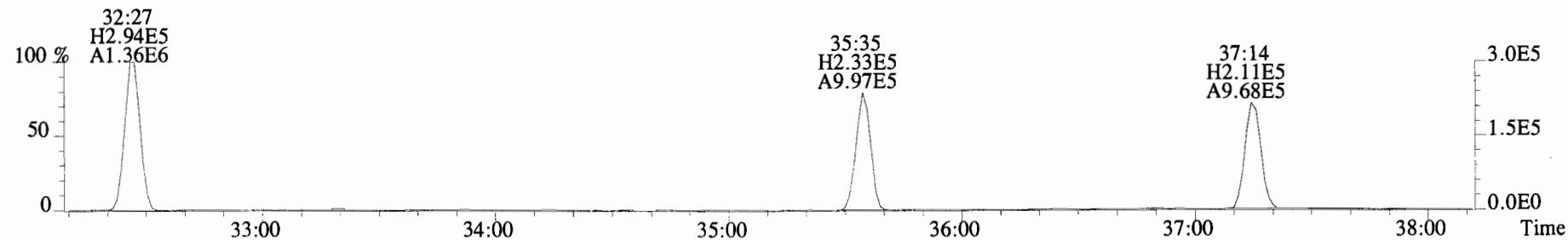
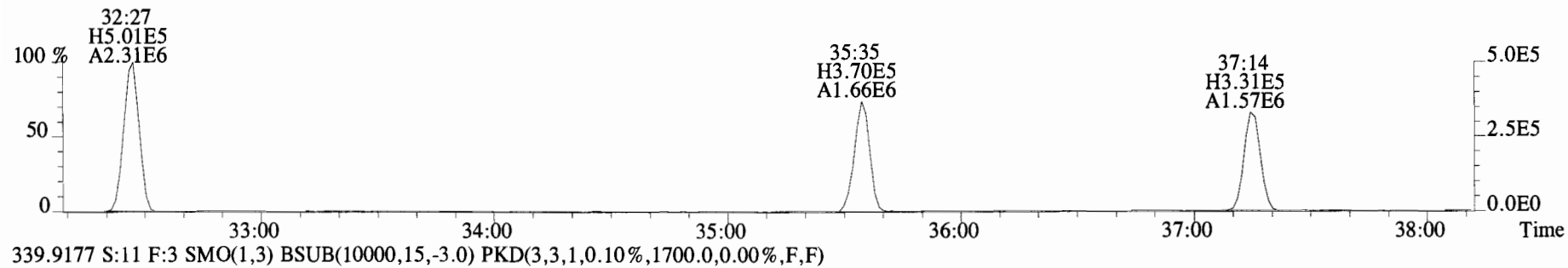
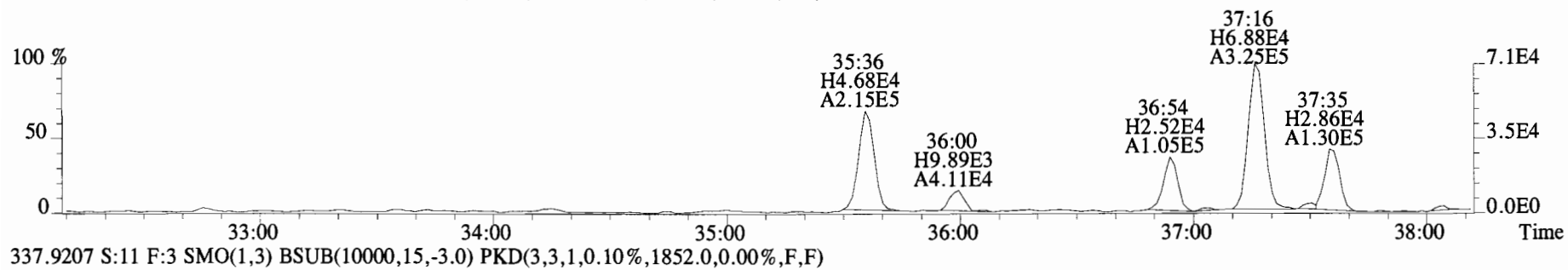
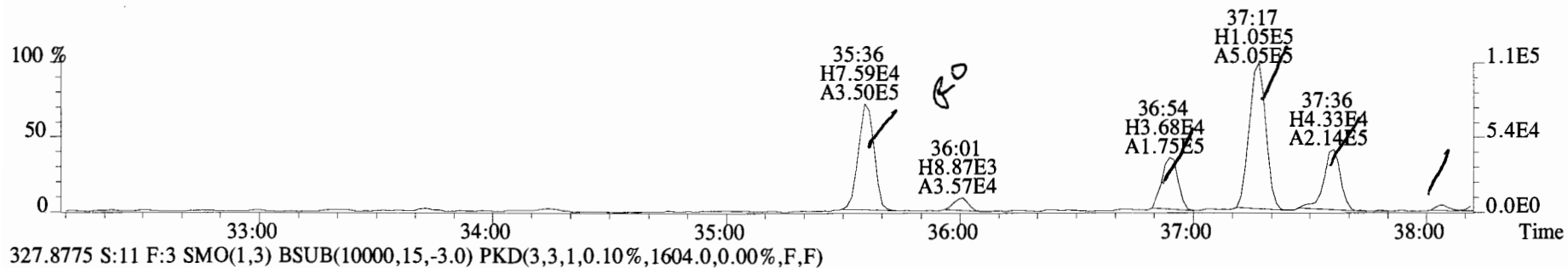
File:140911E1 #1-747 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
301.9626 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



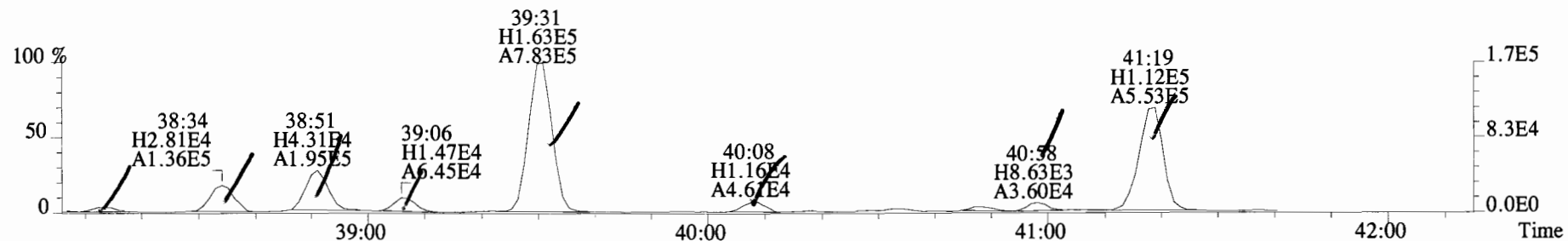
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1820.0,0.00%,F,F)



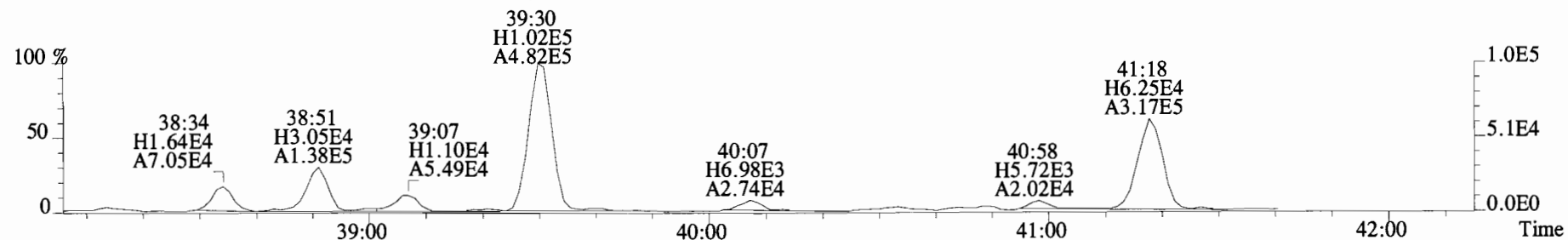
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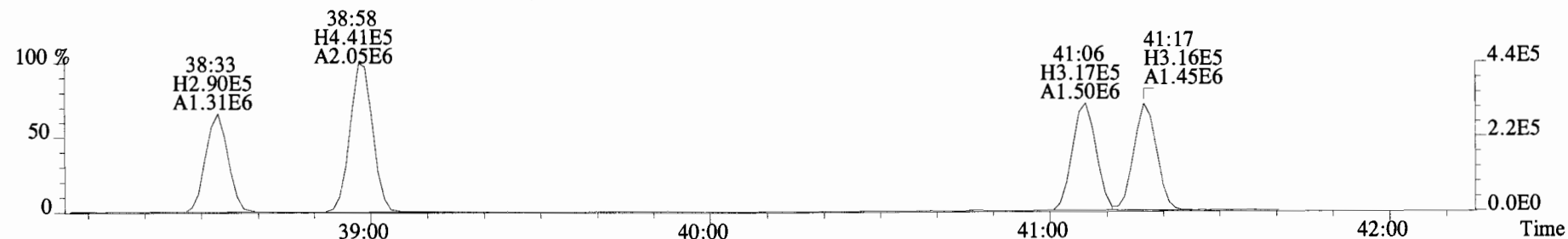
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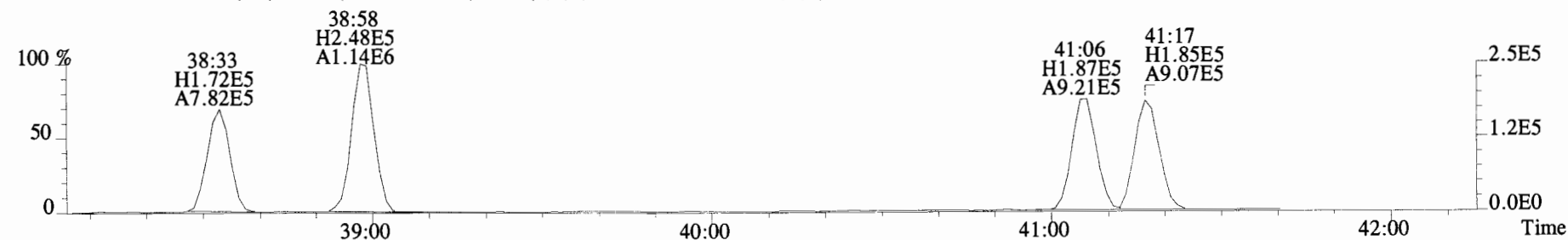
327.8775 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)



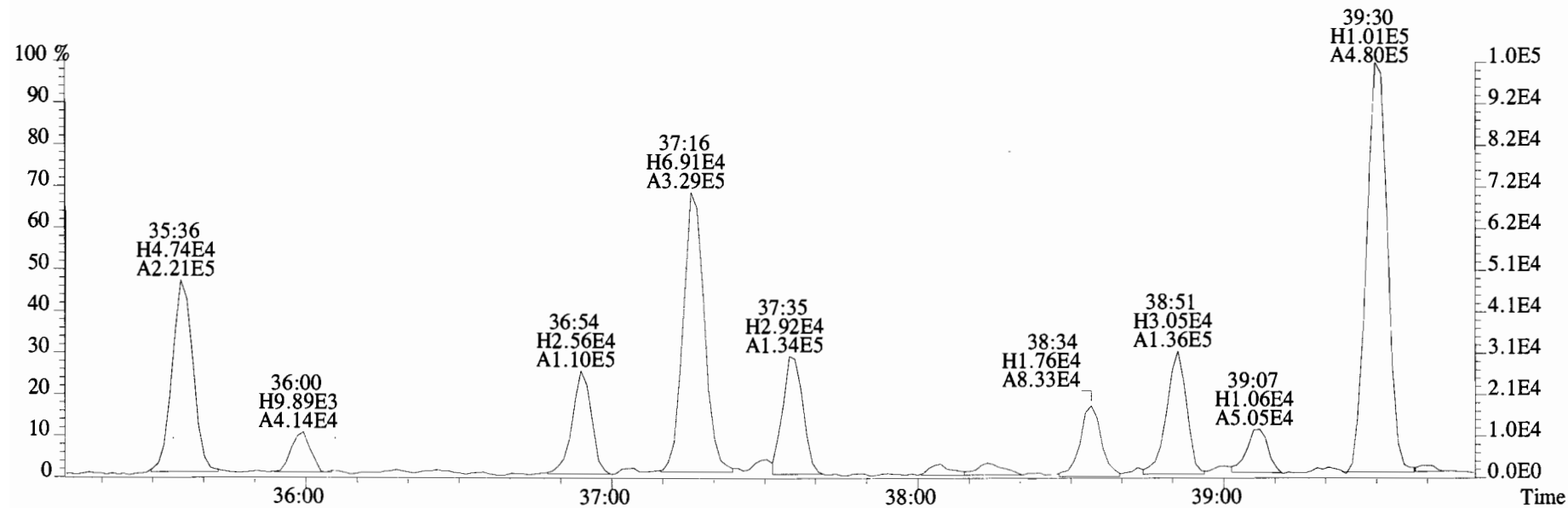
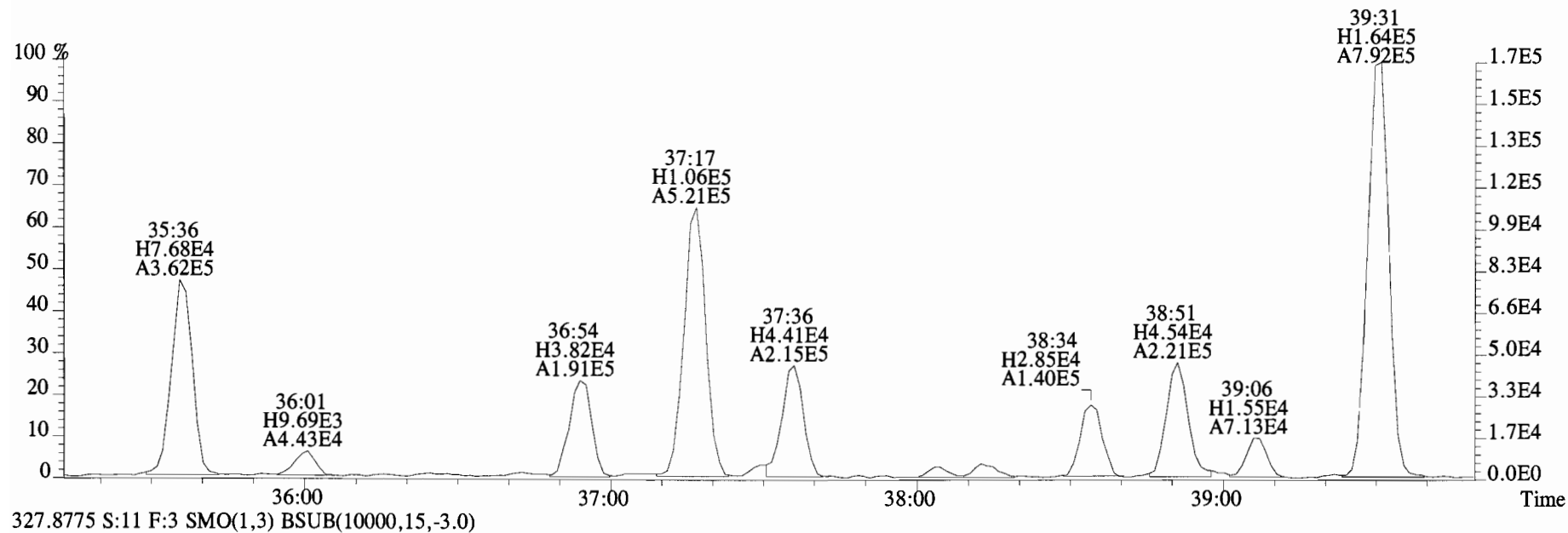
337.9207 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1852.0,0.00%,F,F)



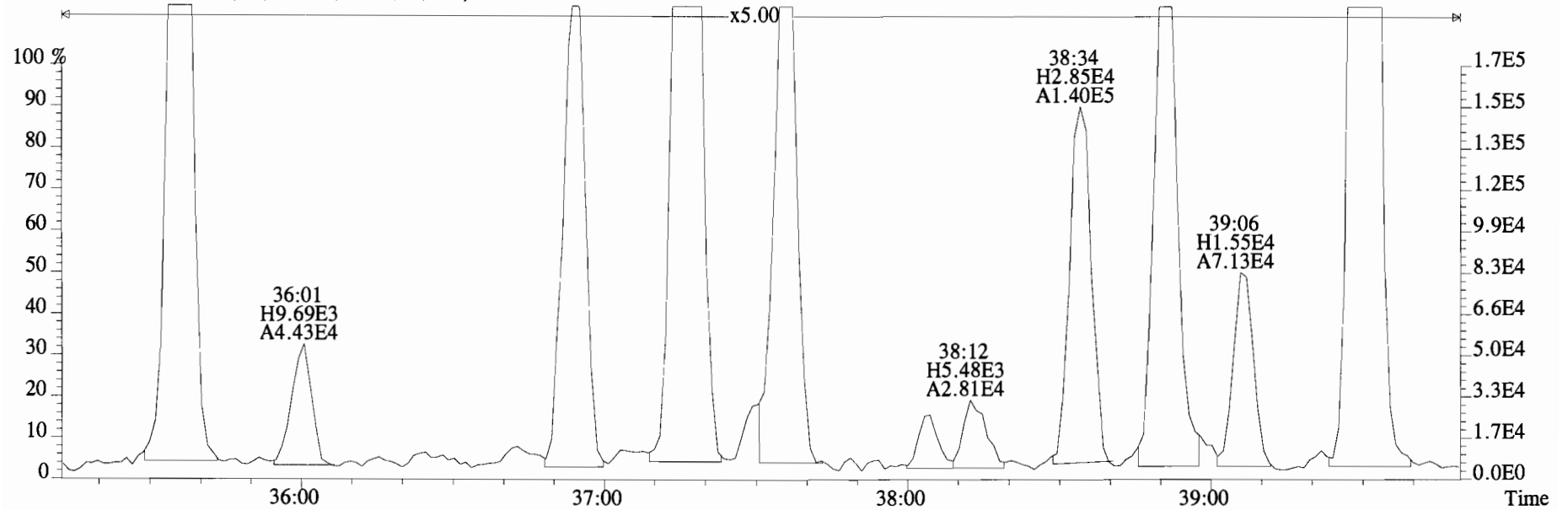
339.9177 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1700.0,0.00%,F,F)



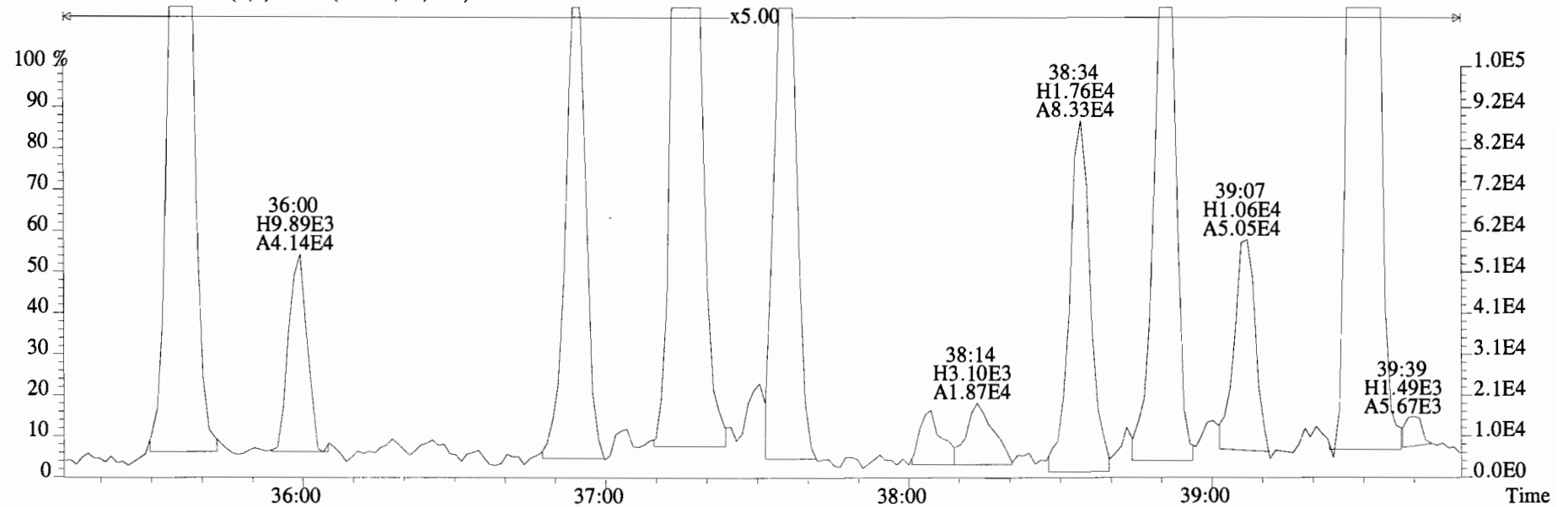
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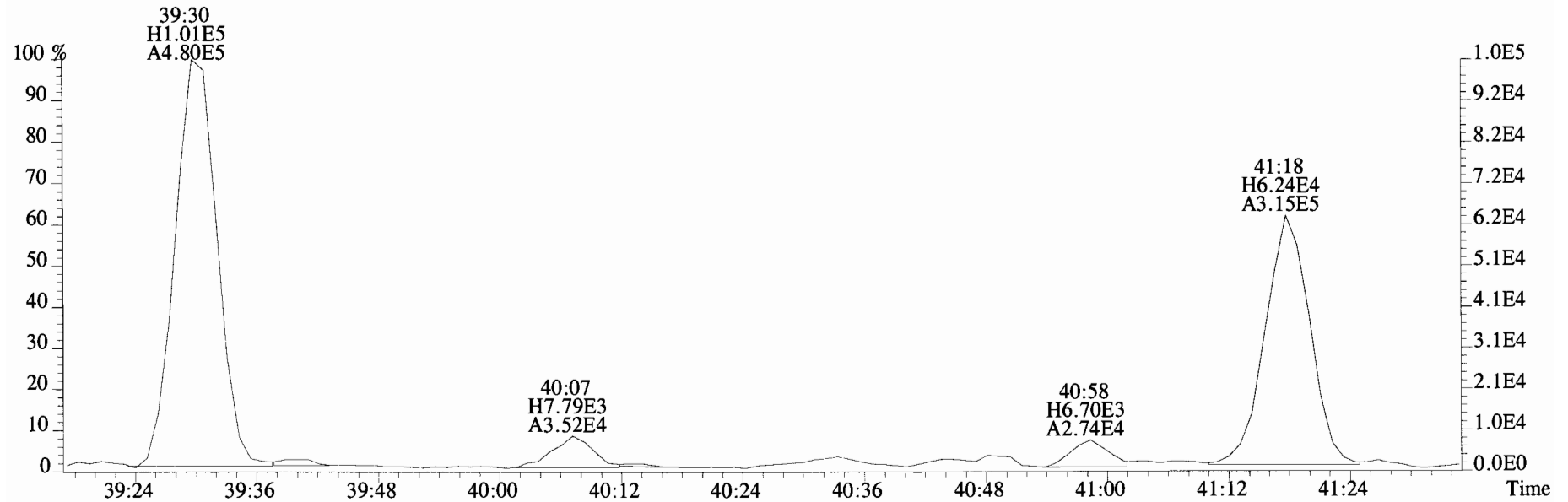
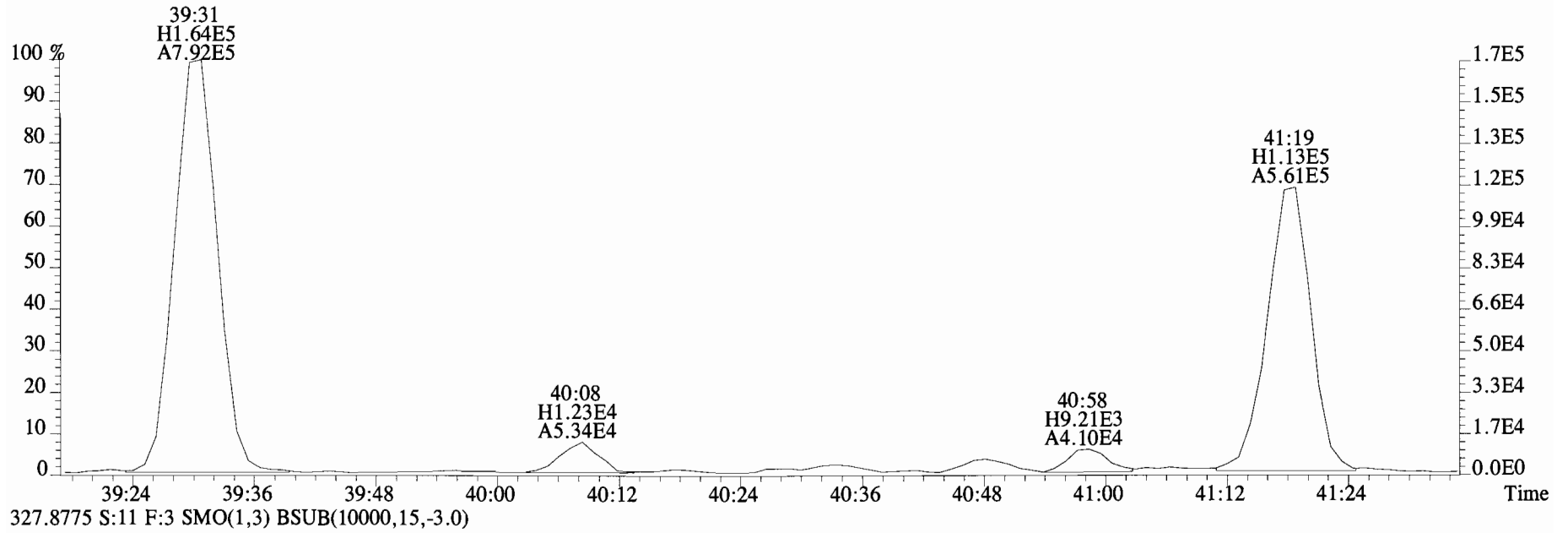
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



327.8775 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)

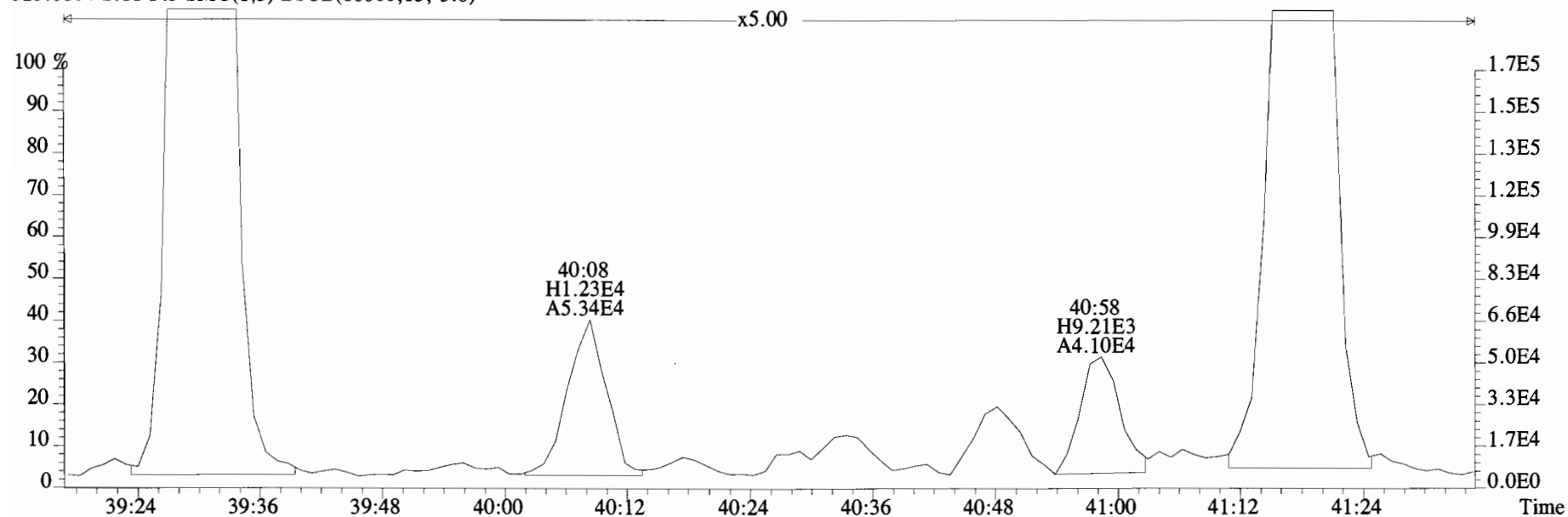


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325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)

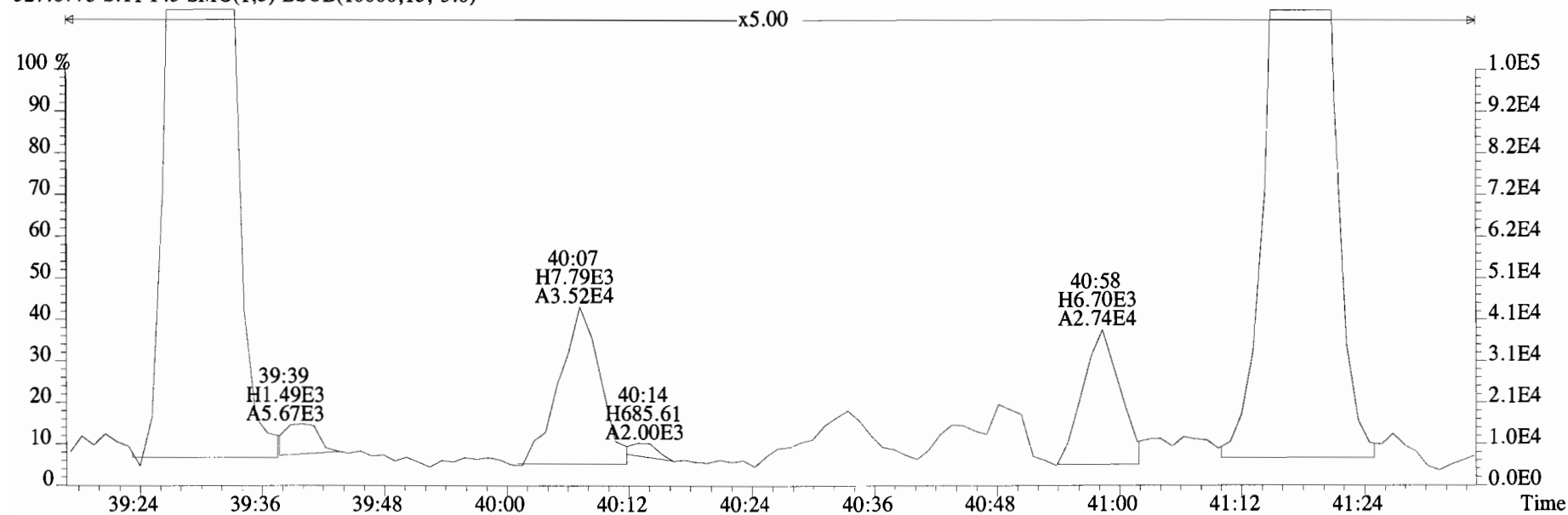




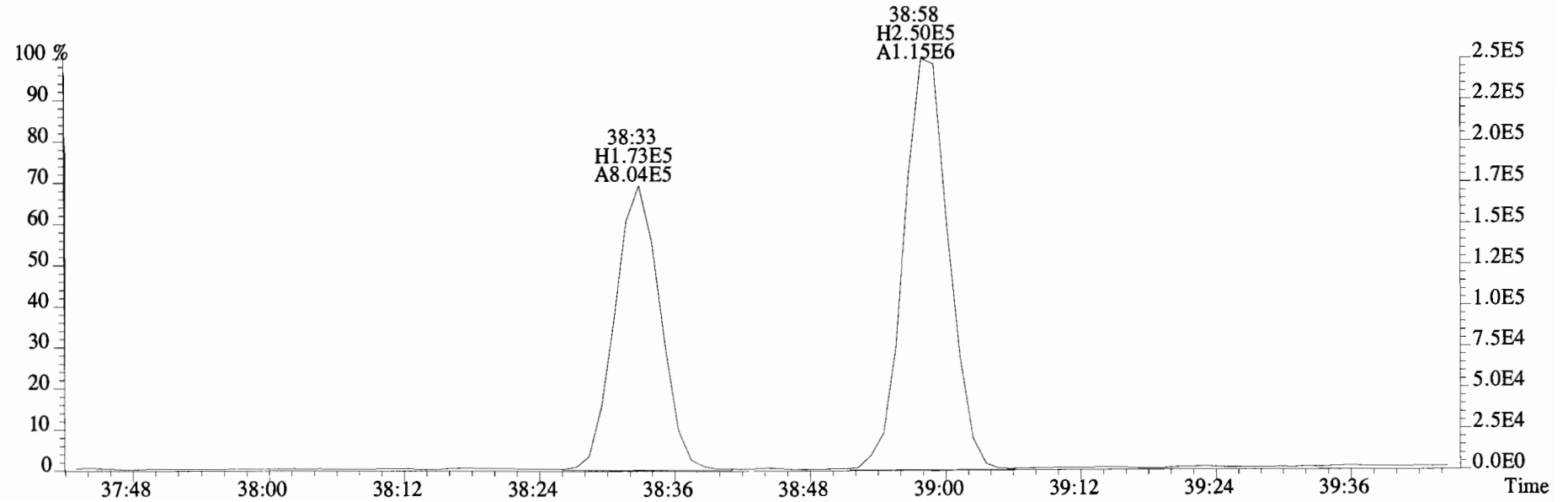
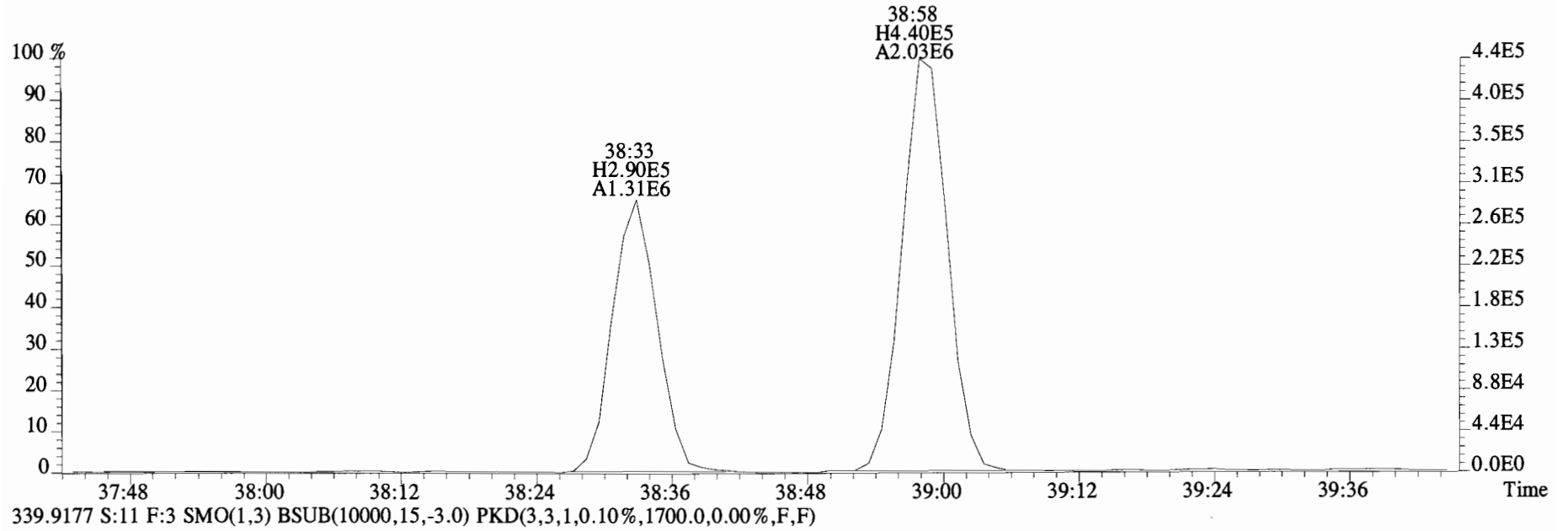
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325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



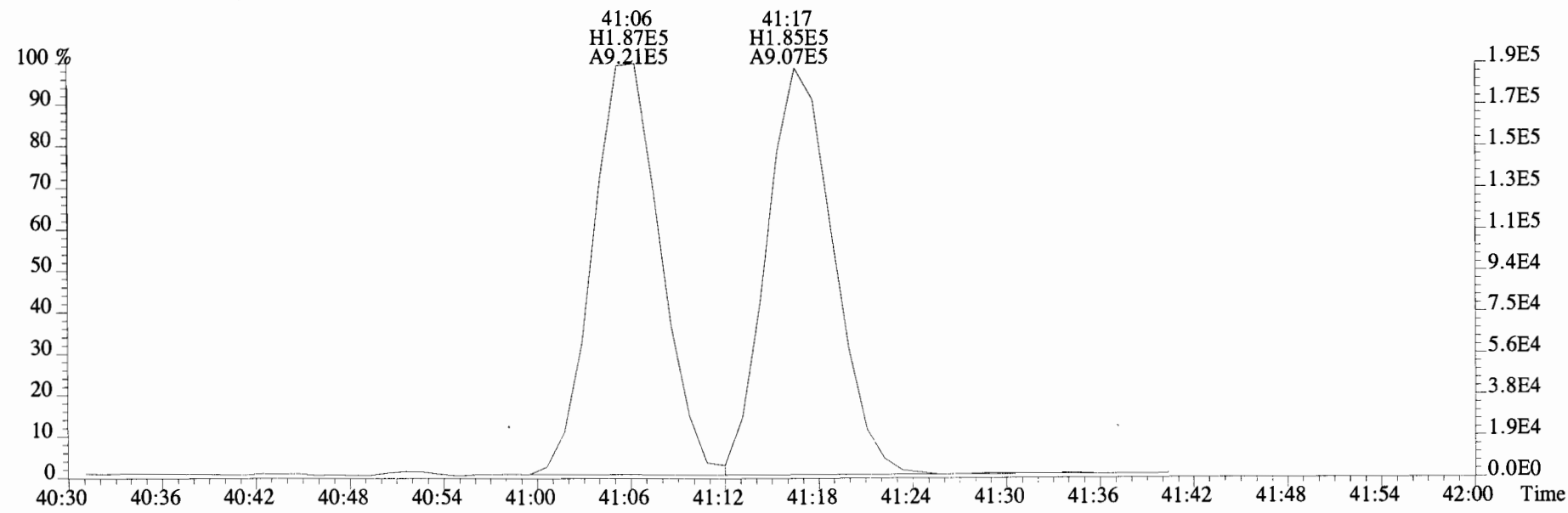
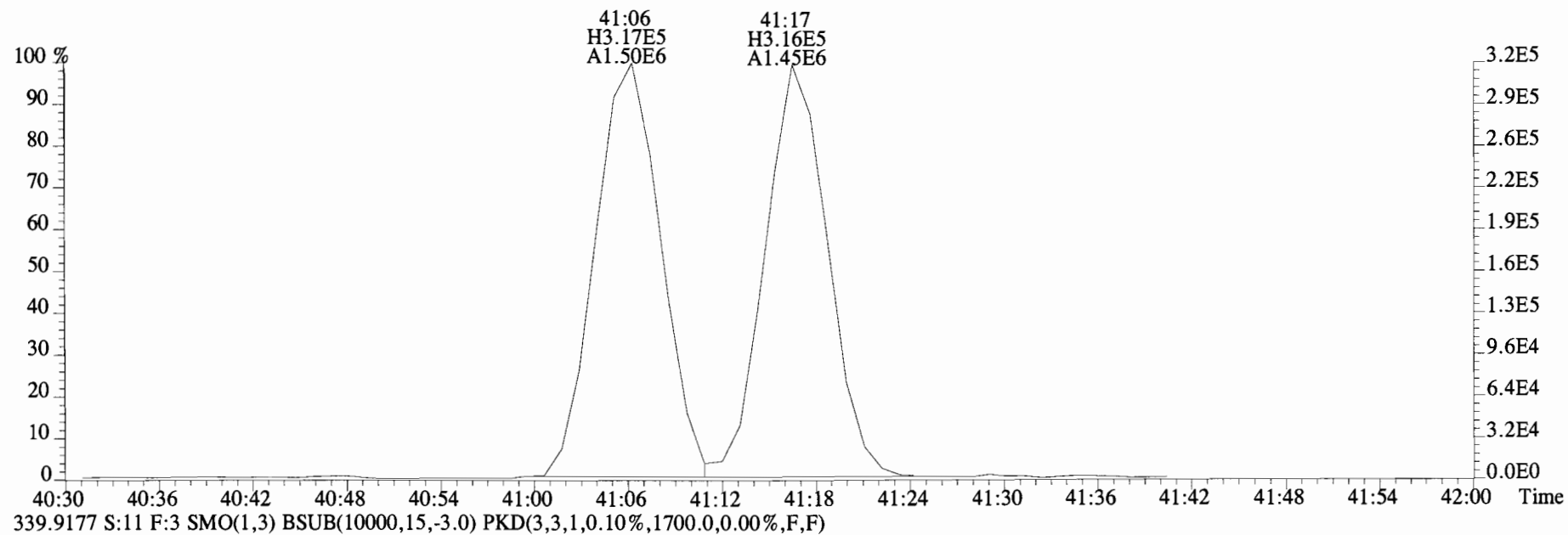
327.8775 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



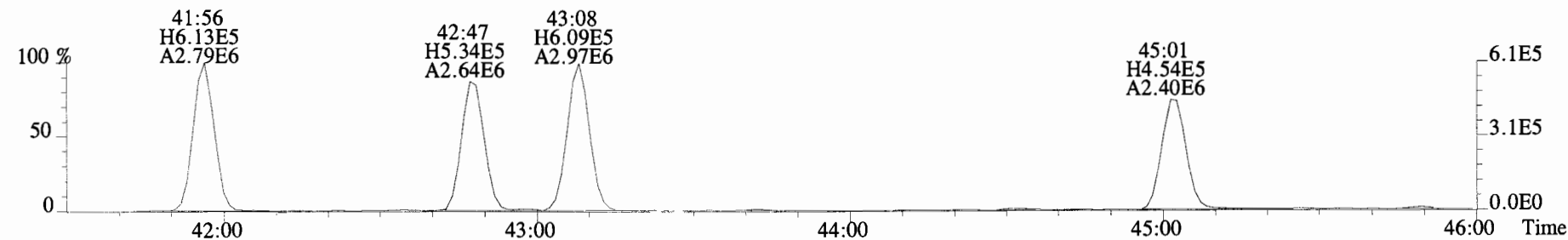
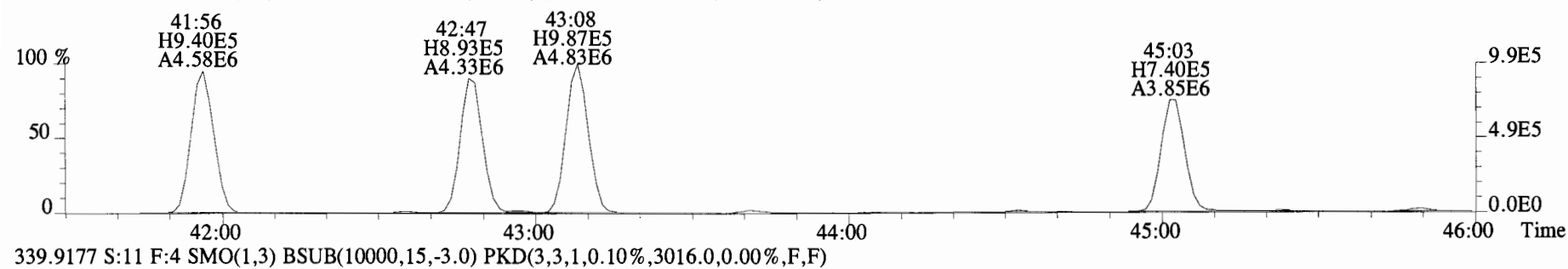
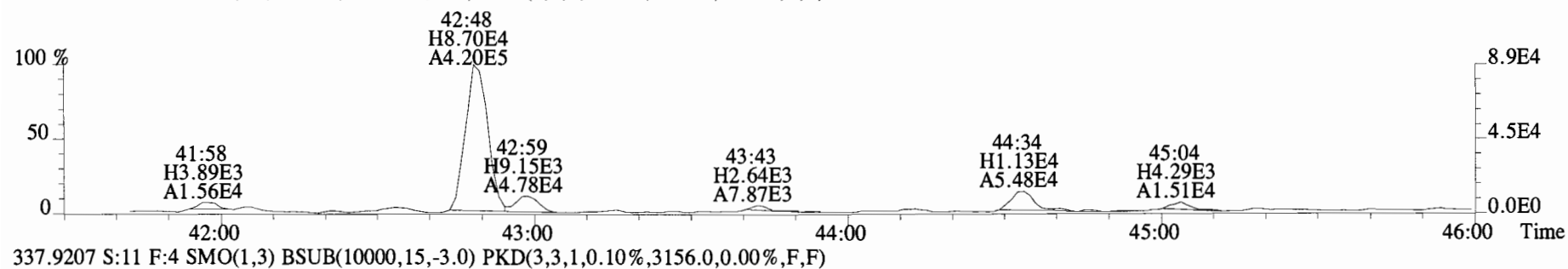
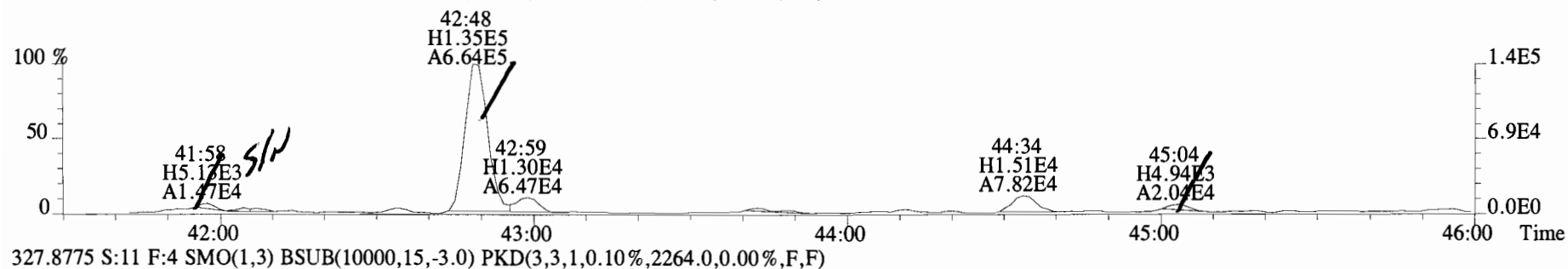
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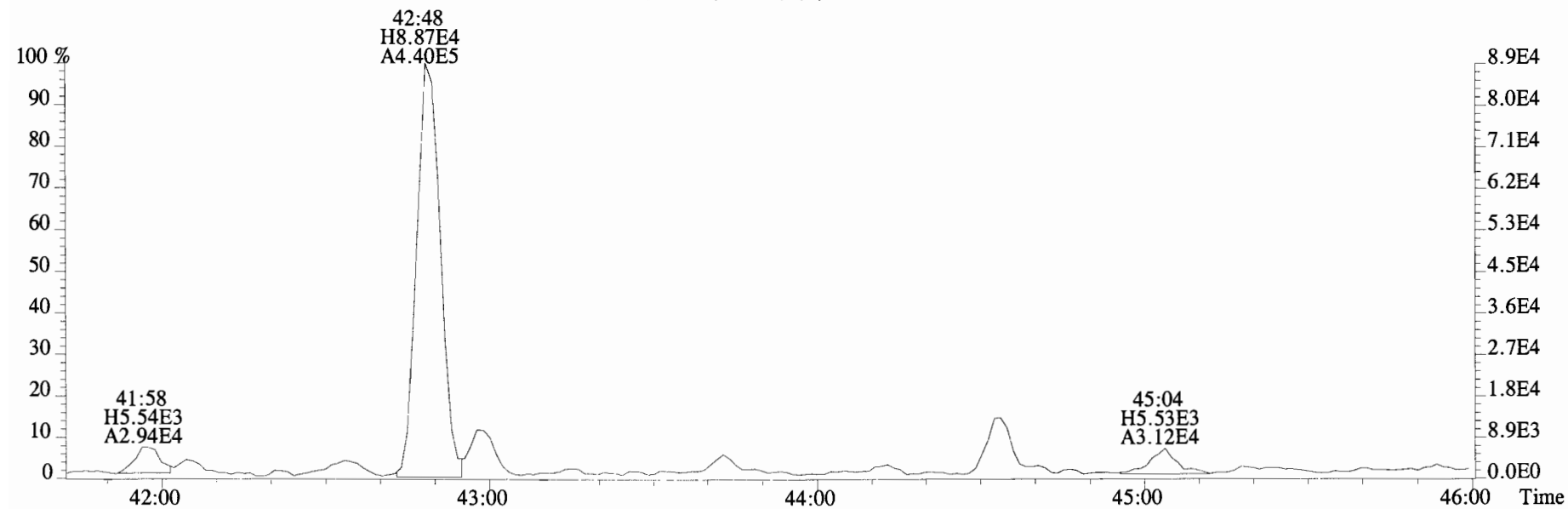
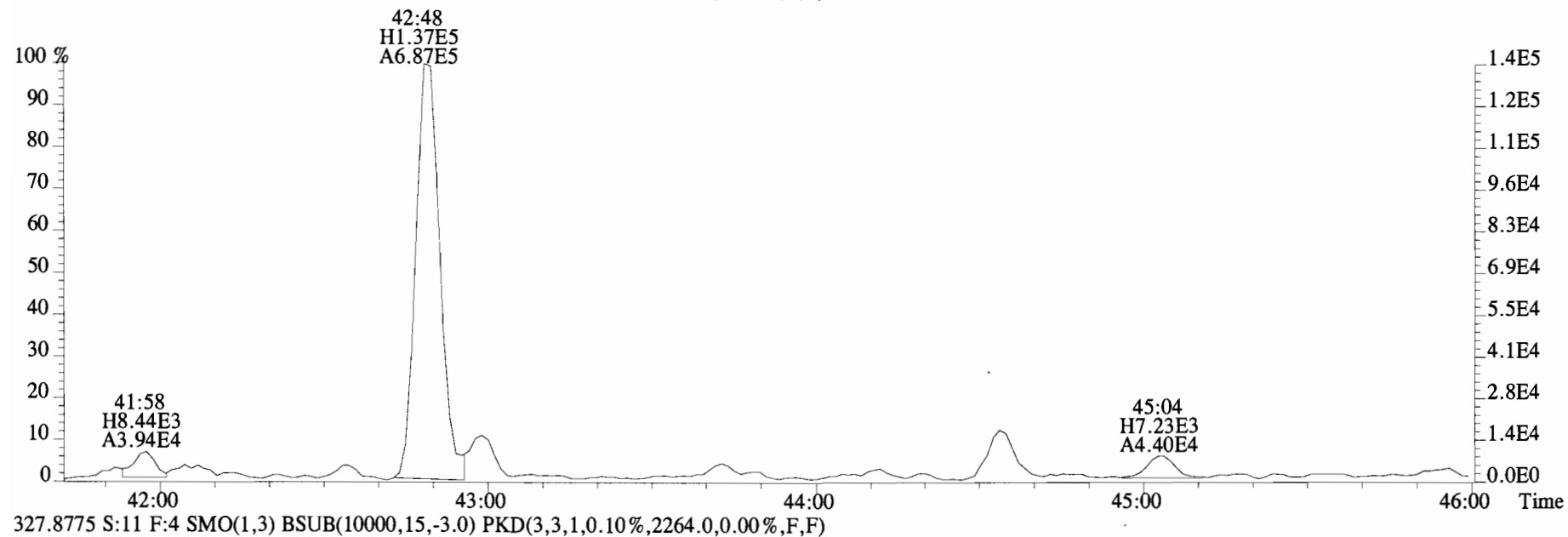
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337.9207 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1852.0,0.00%,F,F)



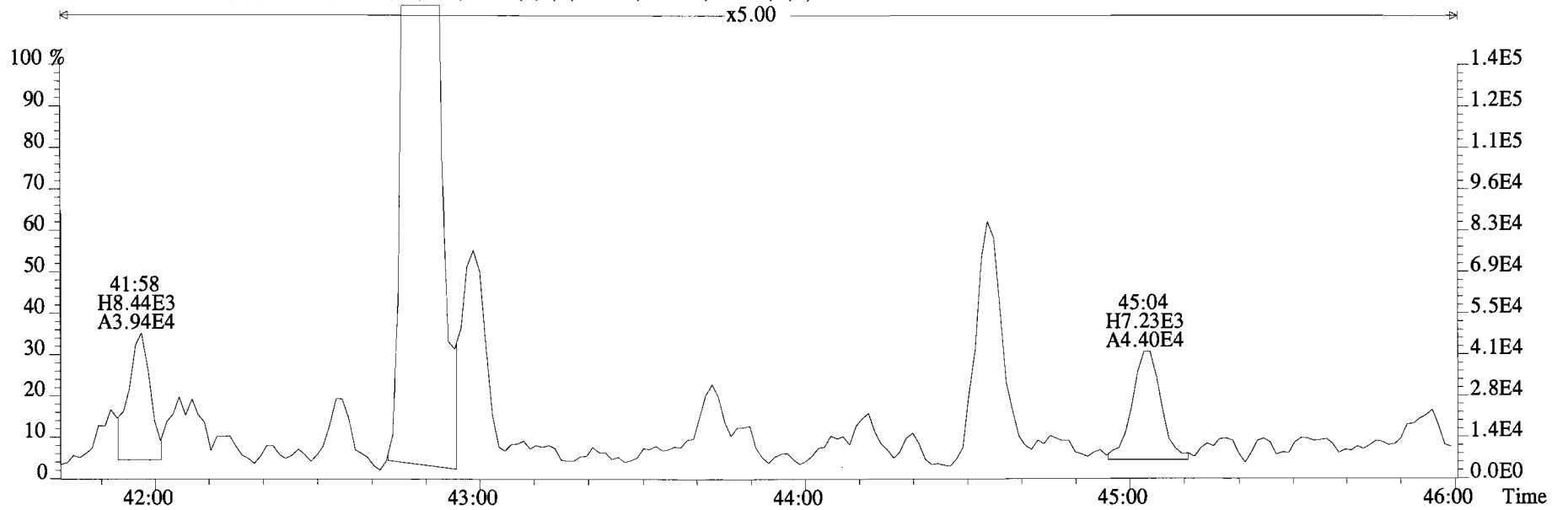
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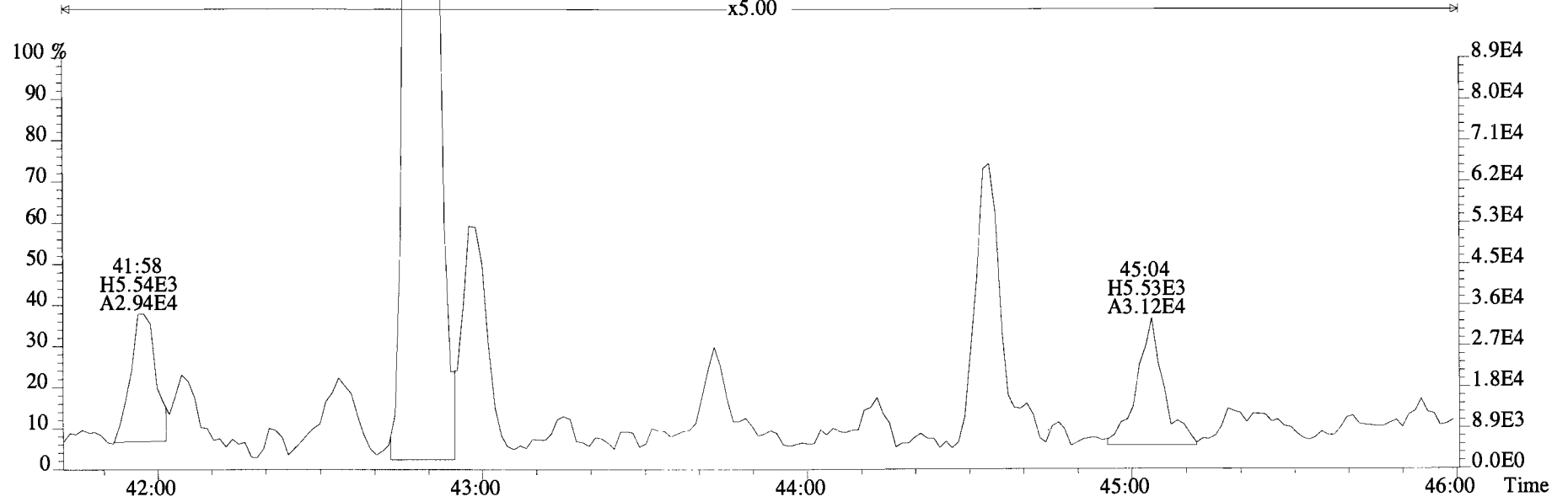
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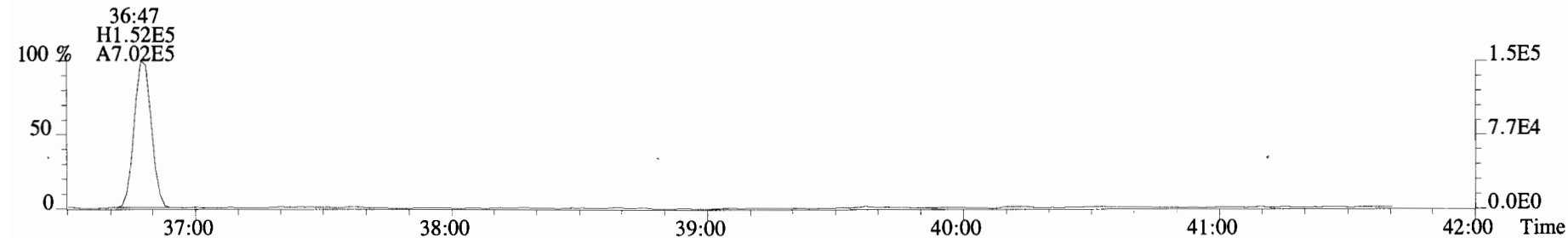
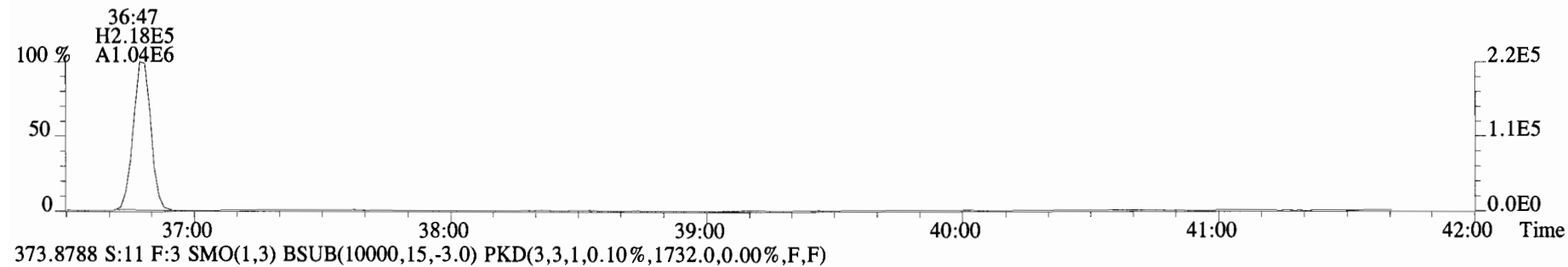
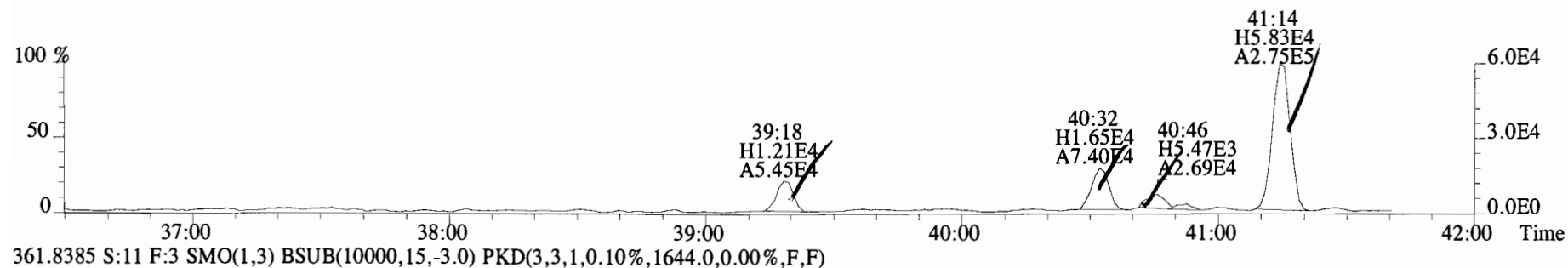
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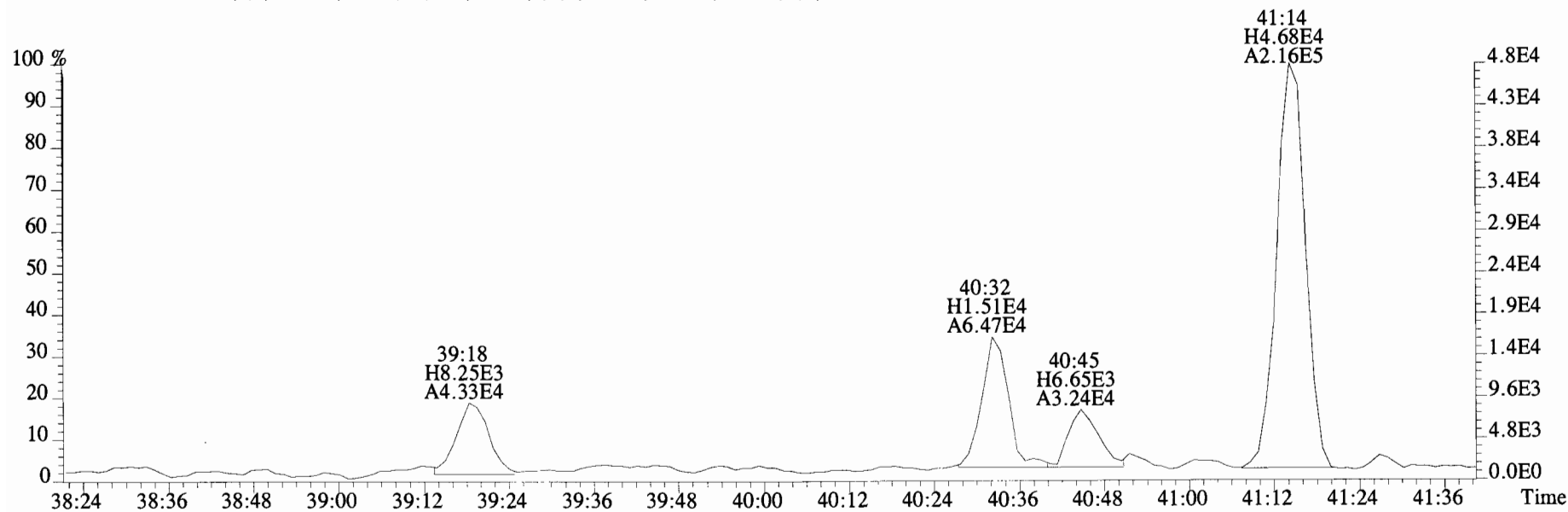
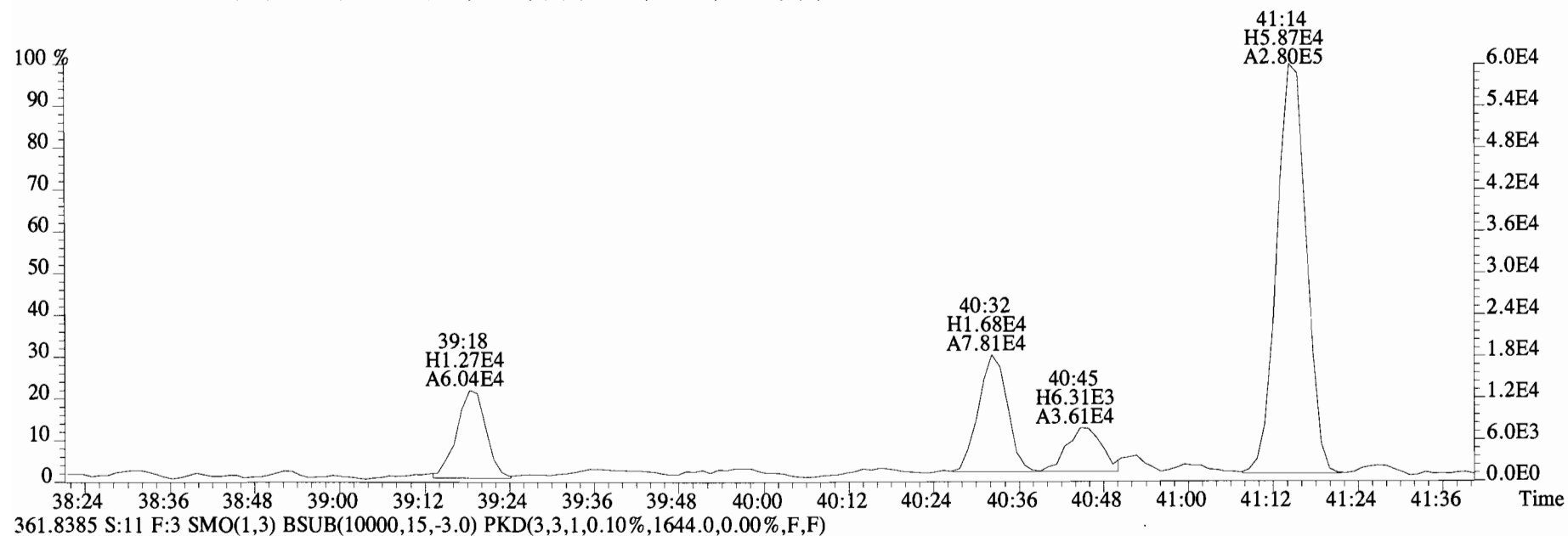
327.8775 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2264.0,0.00%,F,F)



File:140911E1 #1-747 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
359.8415 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)

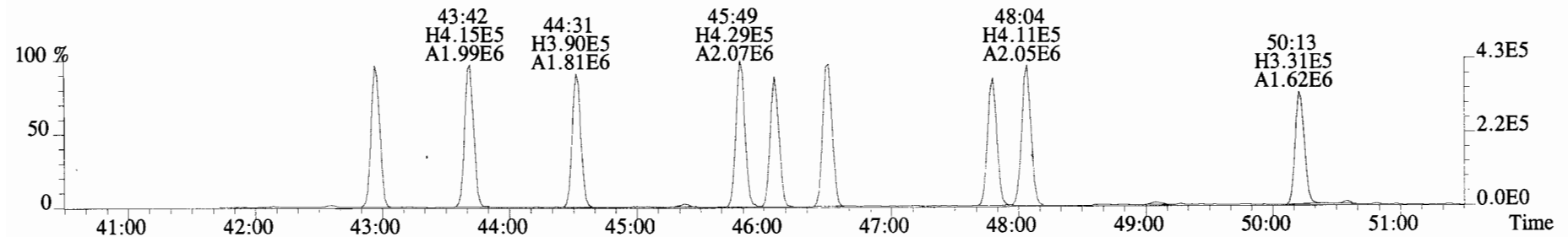
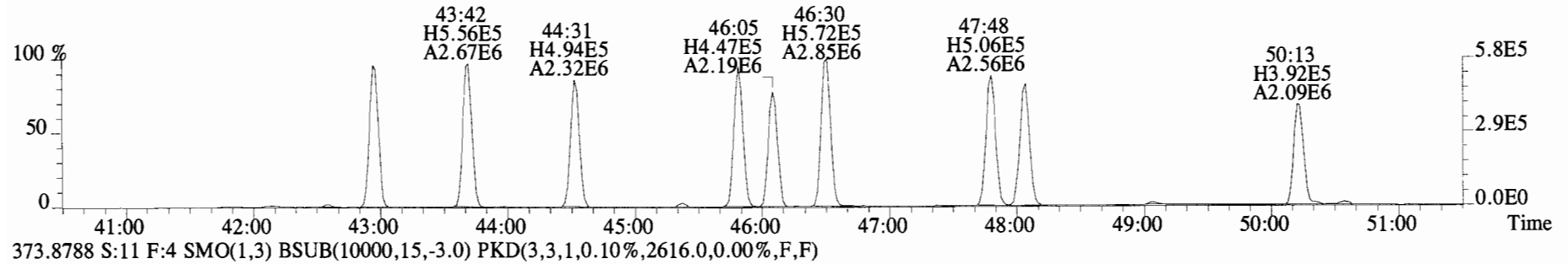
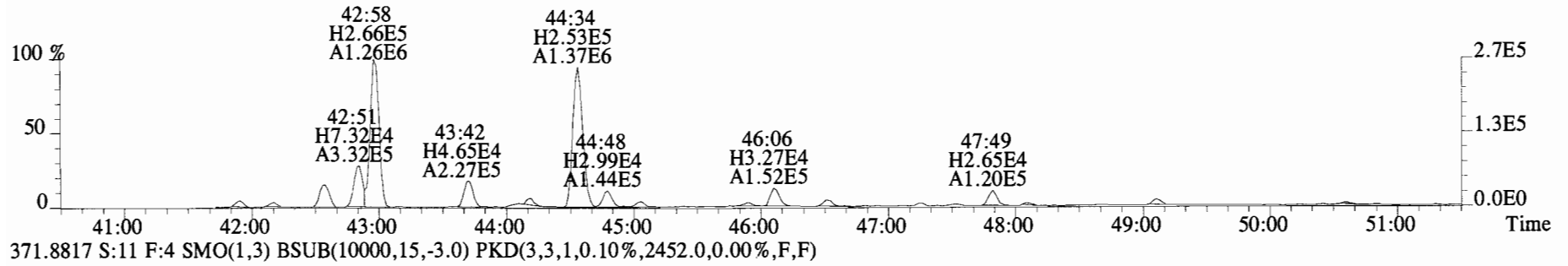
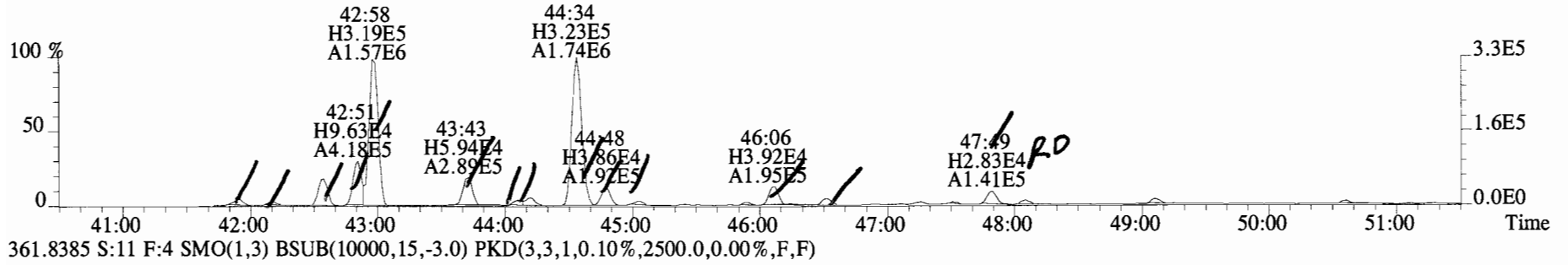


File:140911E1 #1-747 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
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359.8415 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)

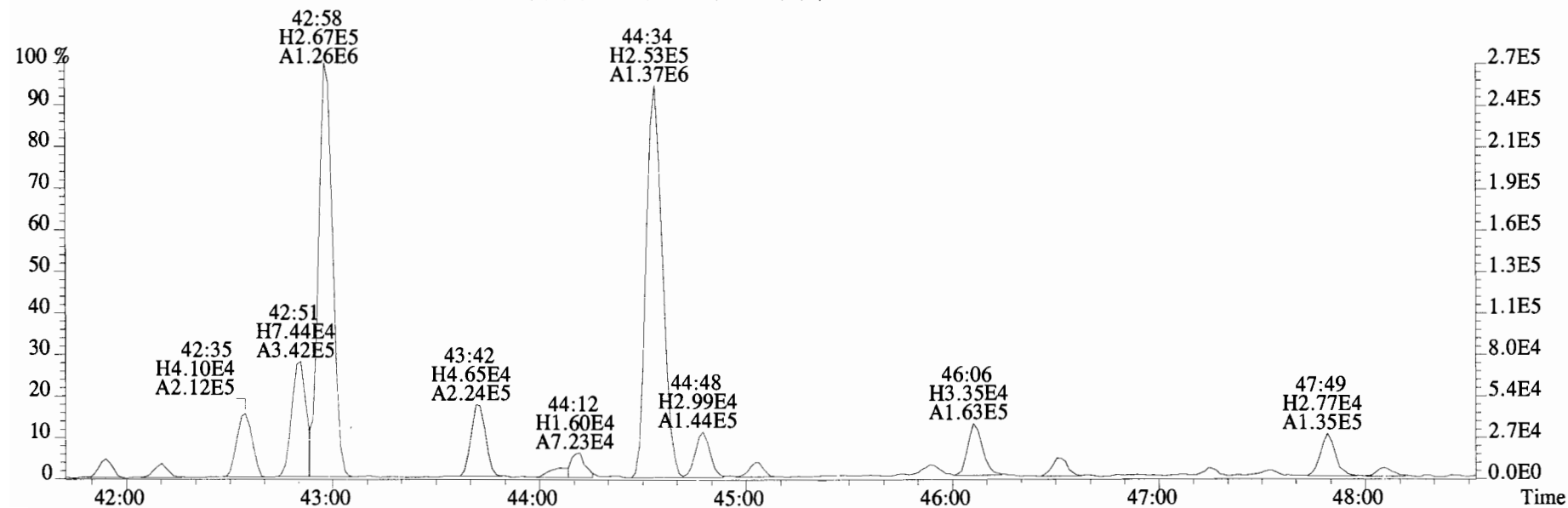
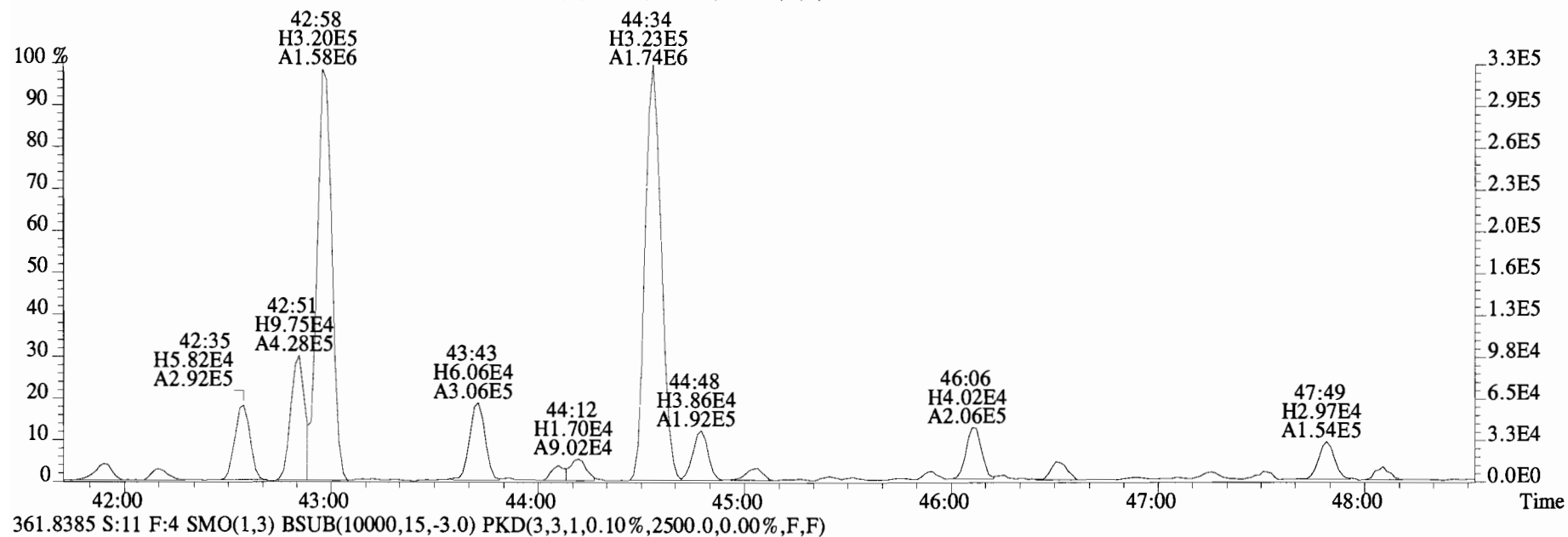




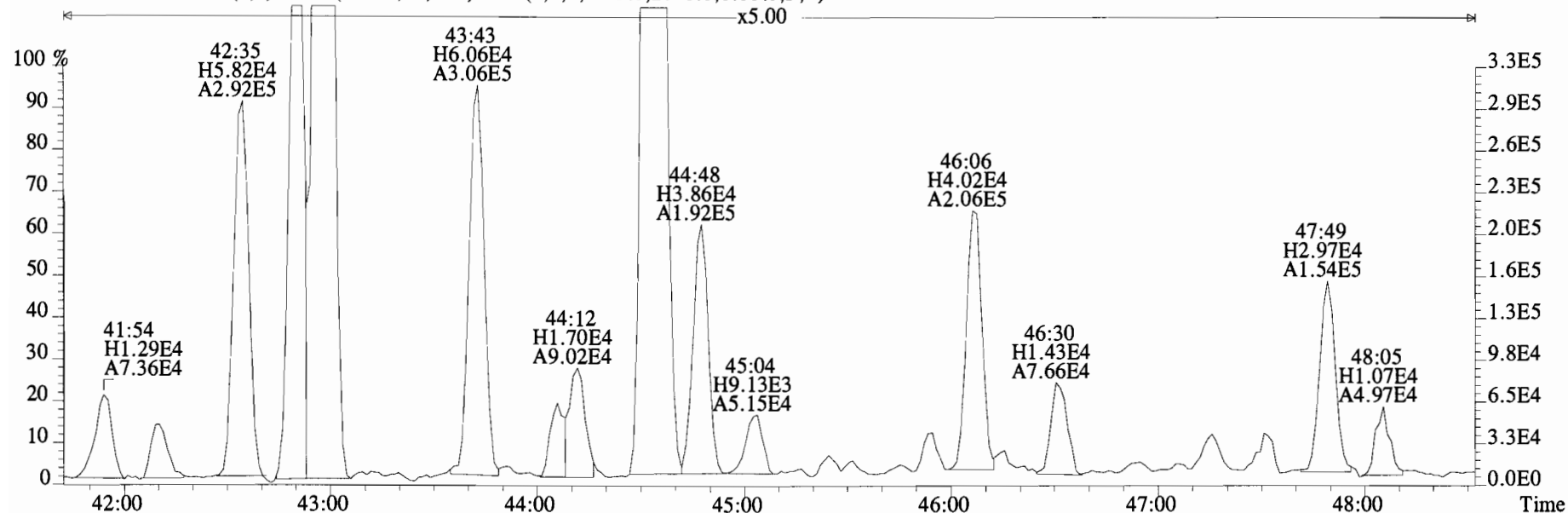
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359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2748.0,0.00%,F,F)



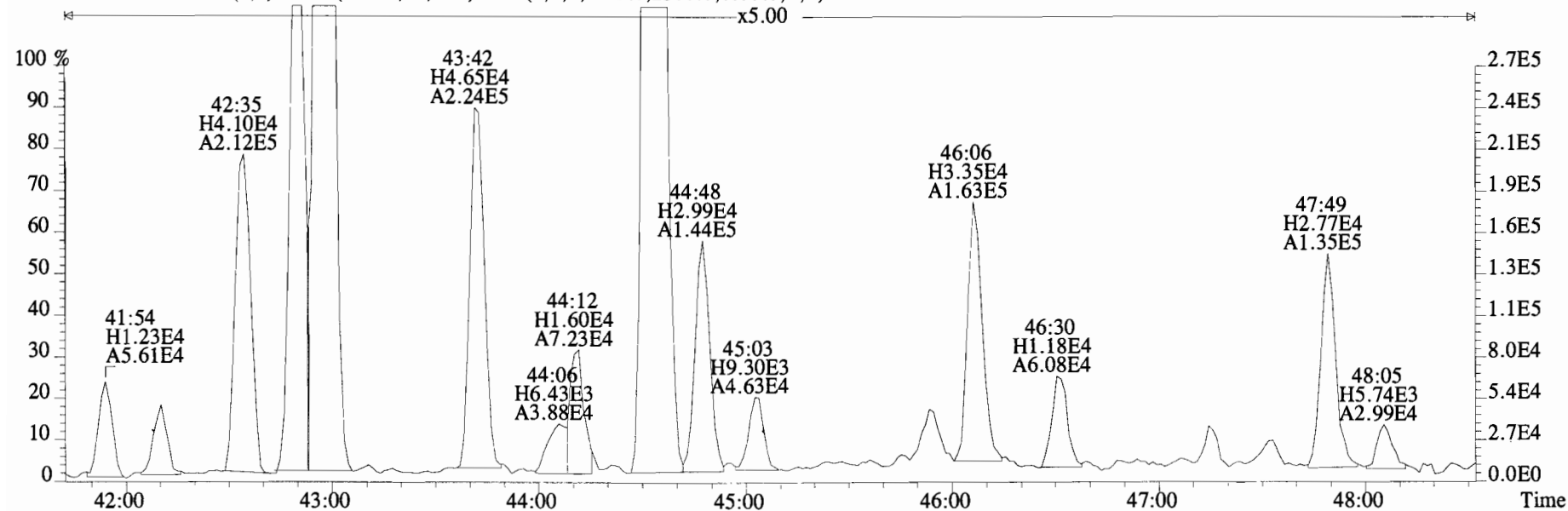
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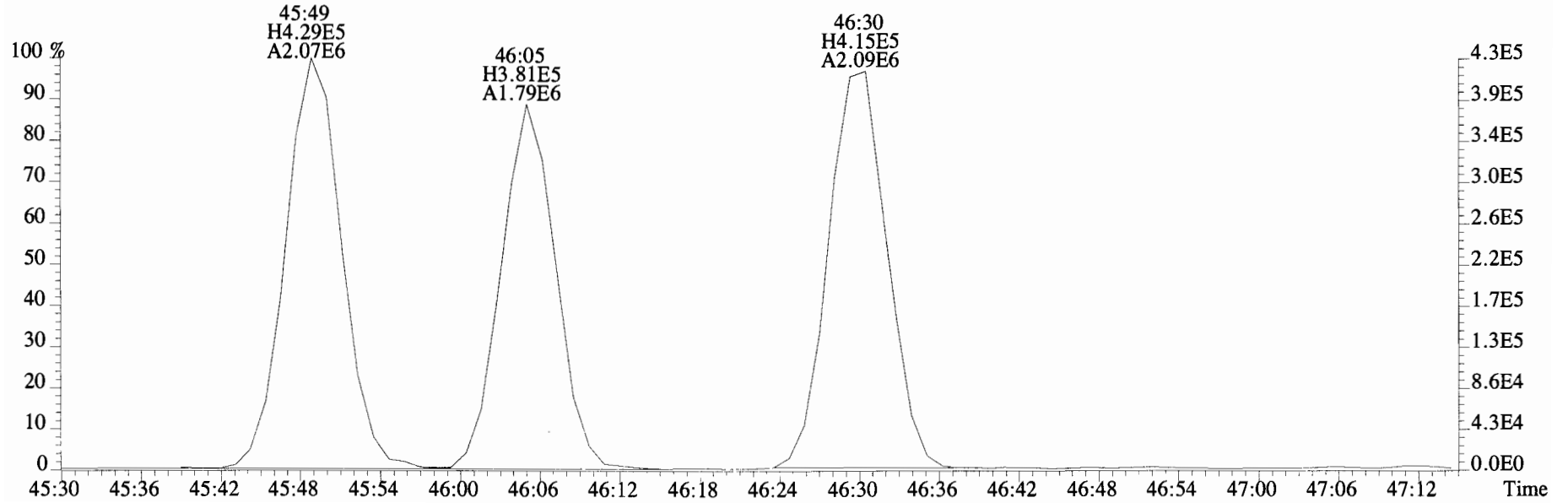
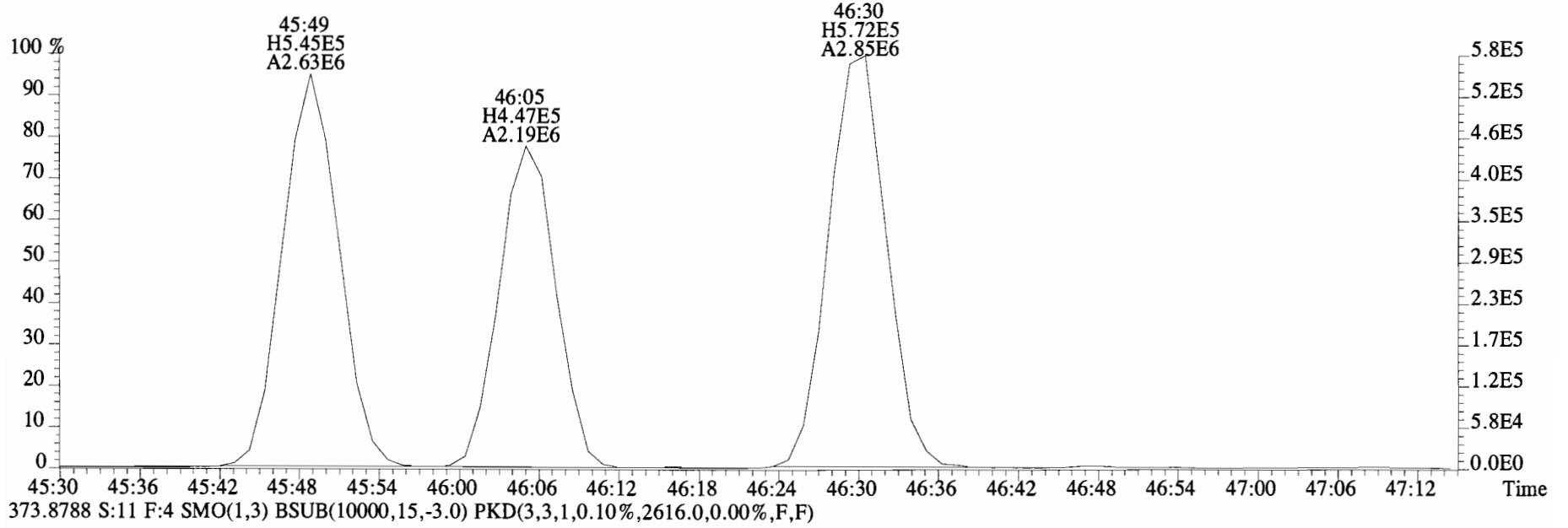
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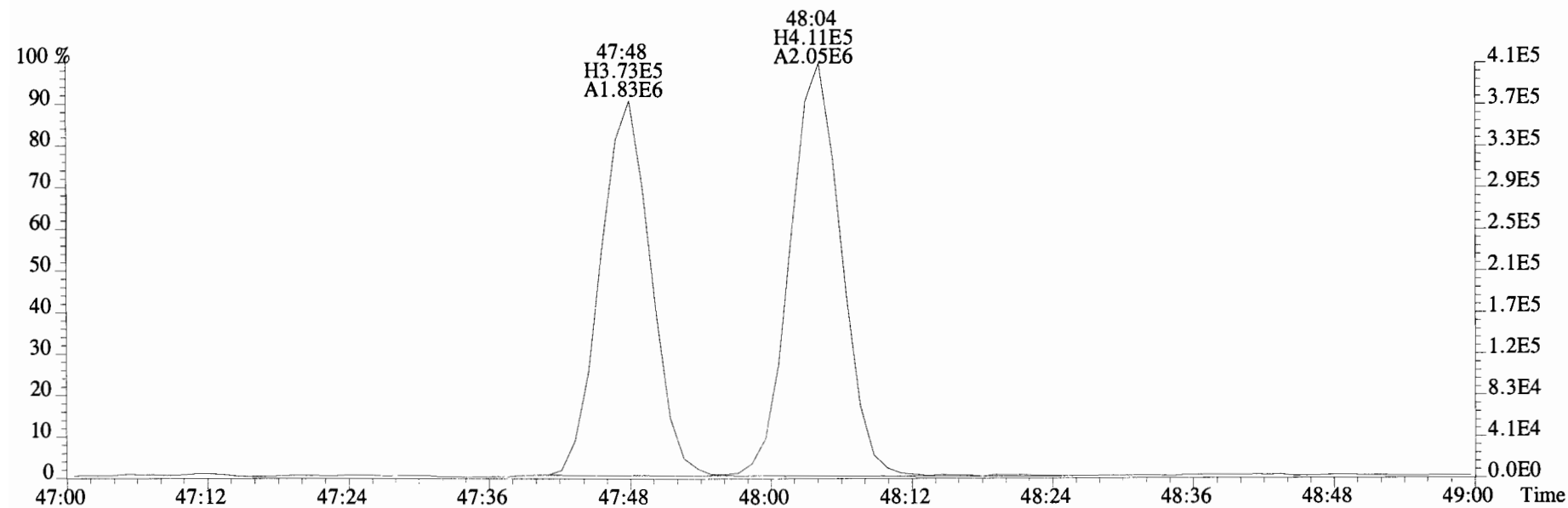
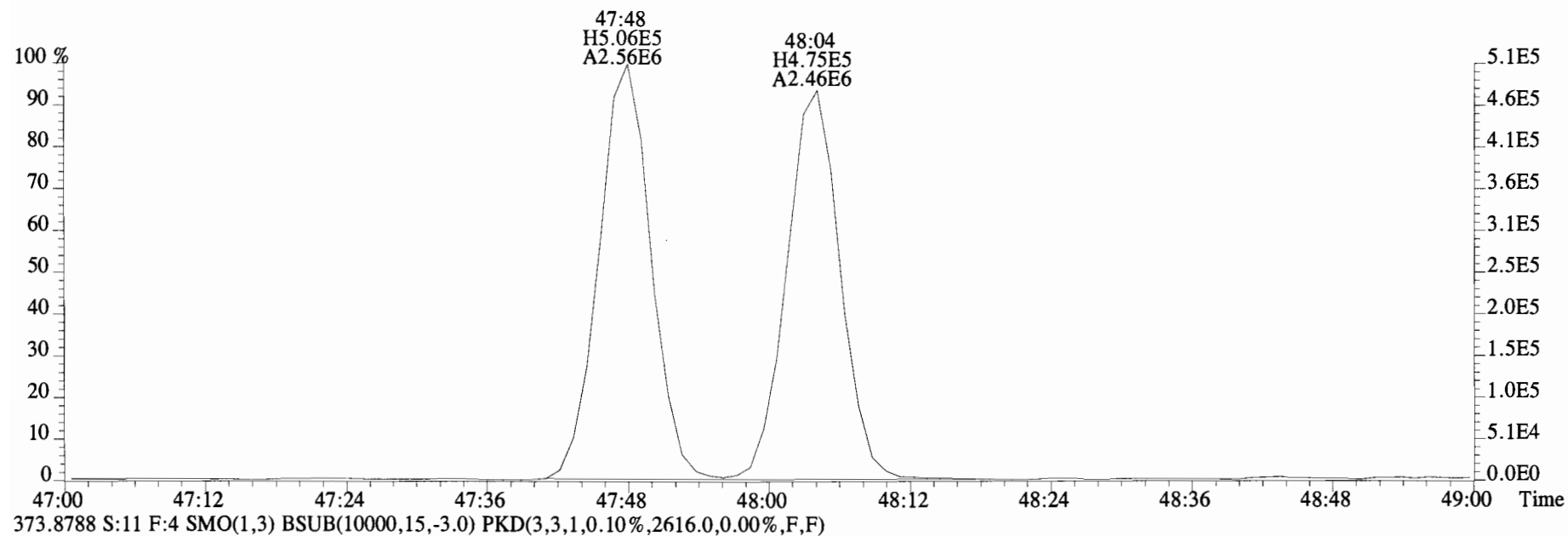
361.8385 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



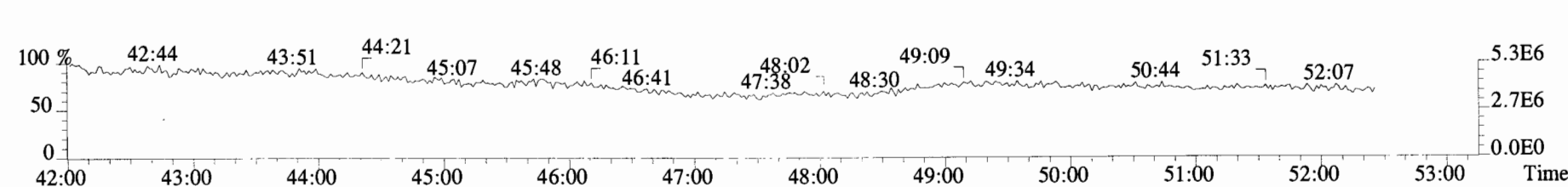
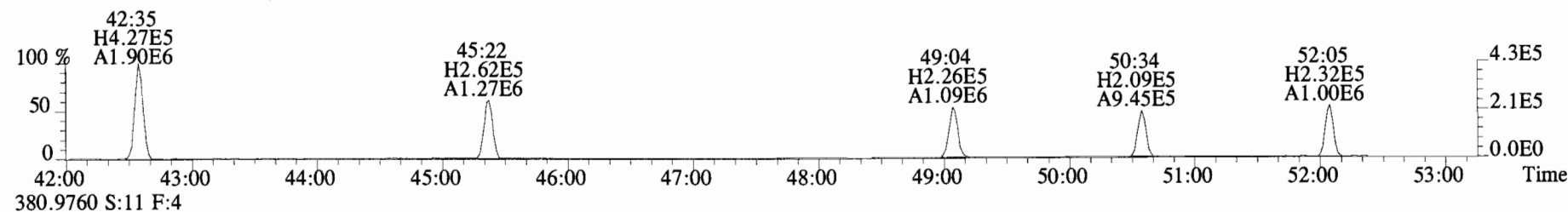
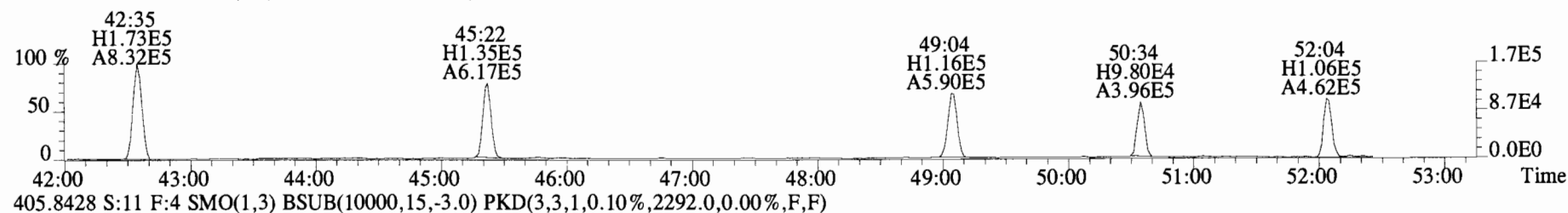
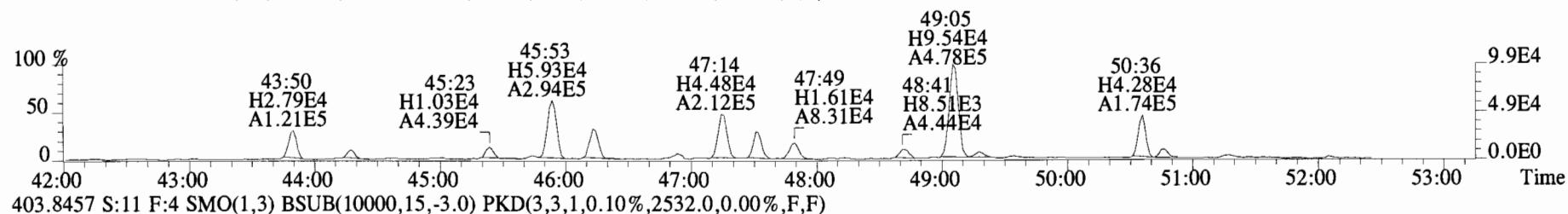
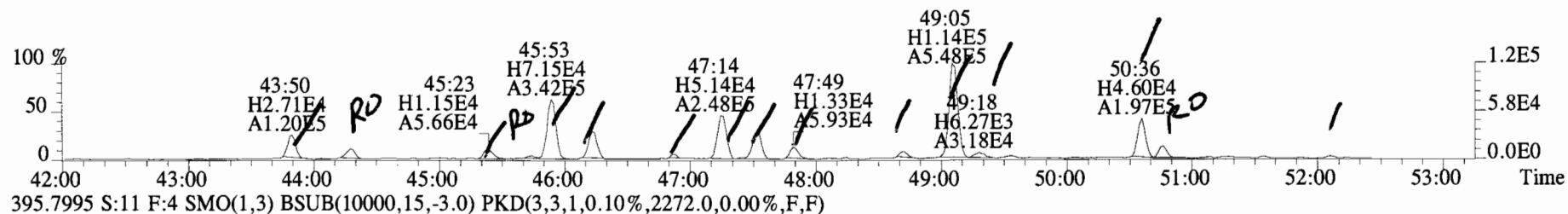
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371.8817 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2452.0,0.00%,F,F)



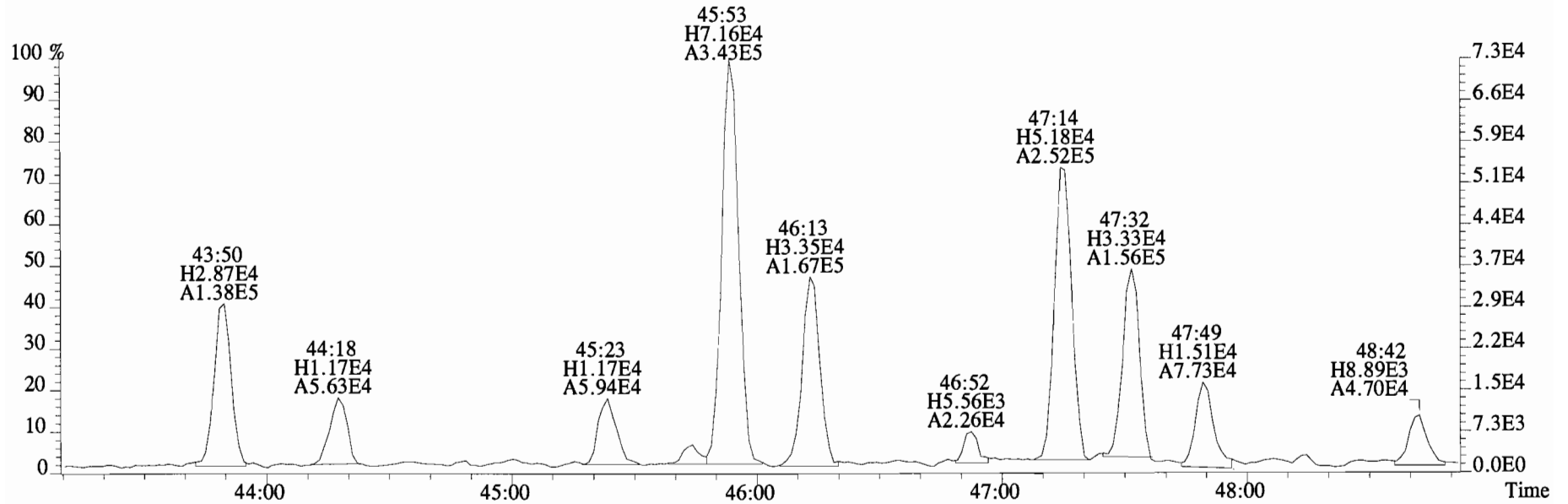
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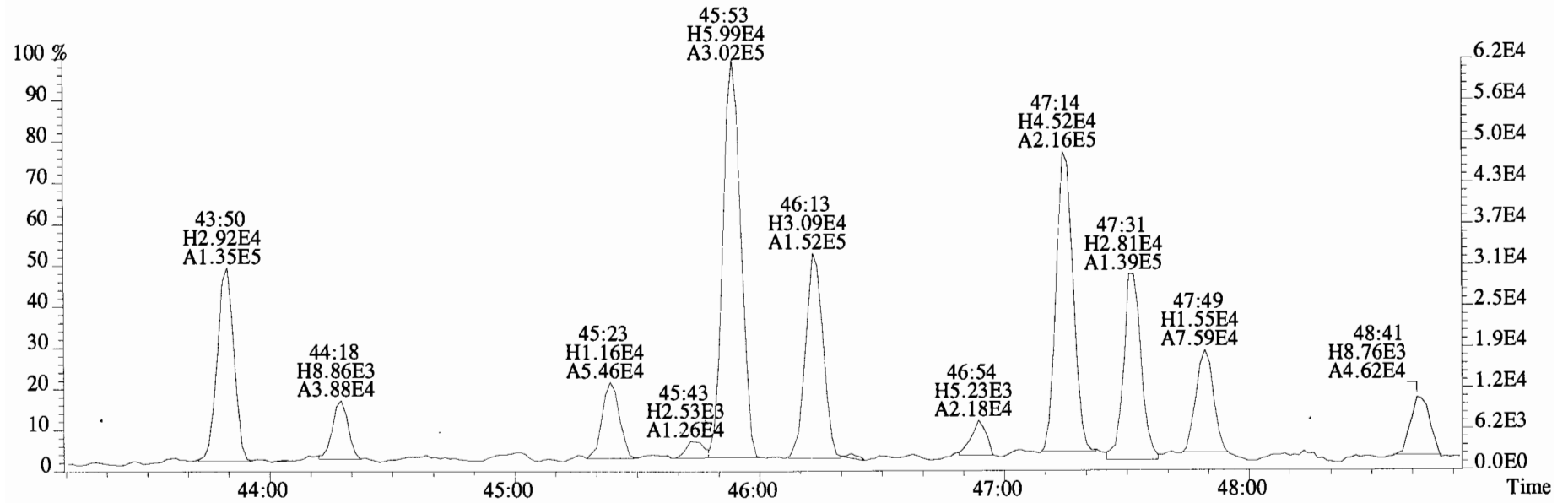
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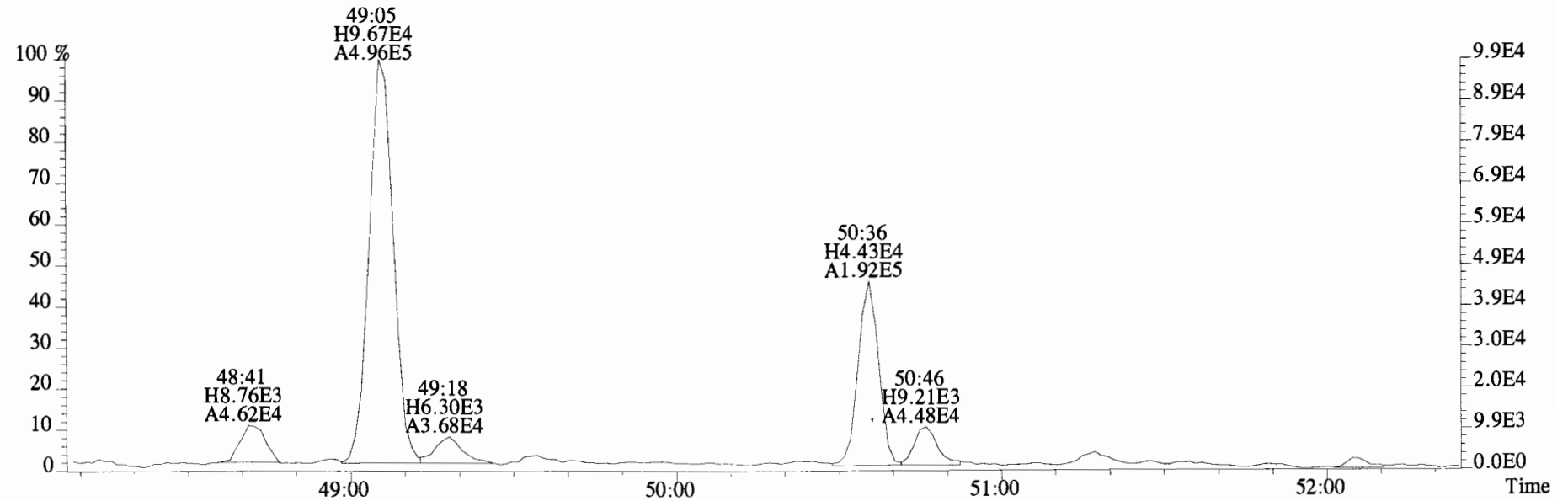
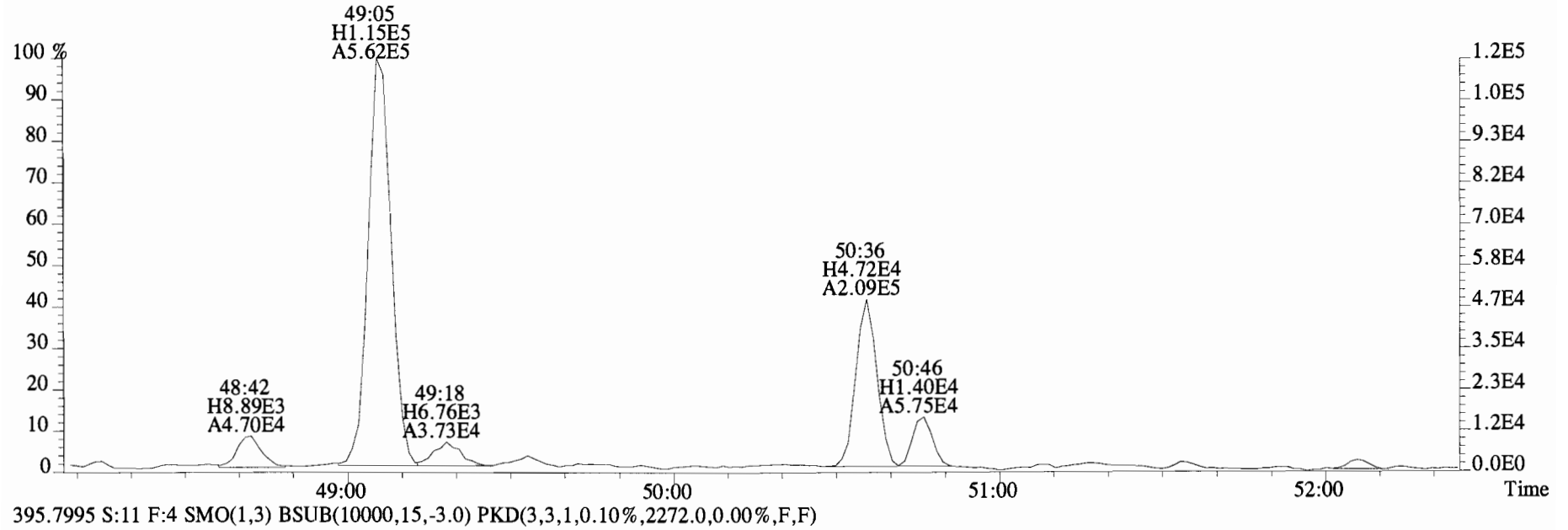
File:140911E1 #1-557 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
 393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2136.0,0.00%,F,F)



395.7995 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)

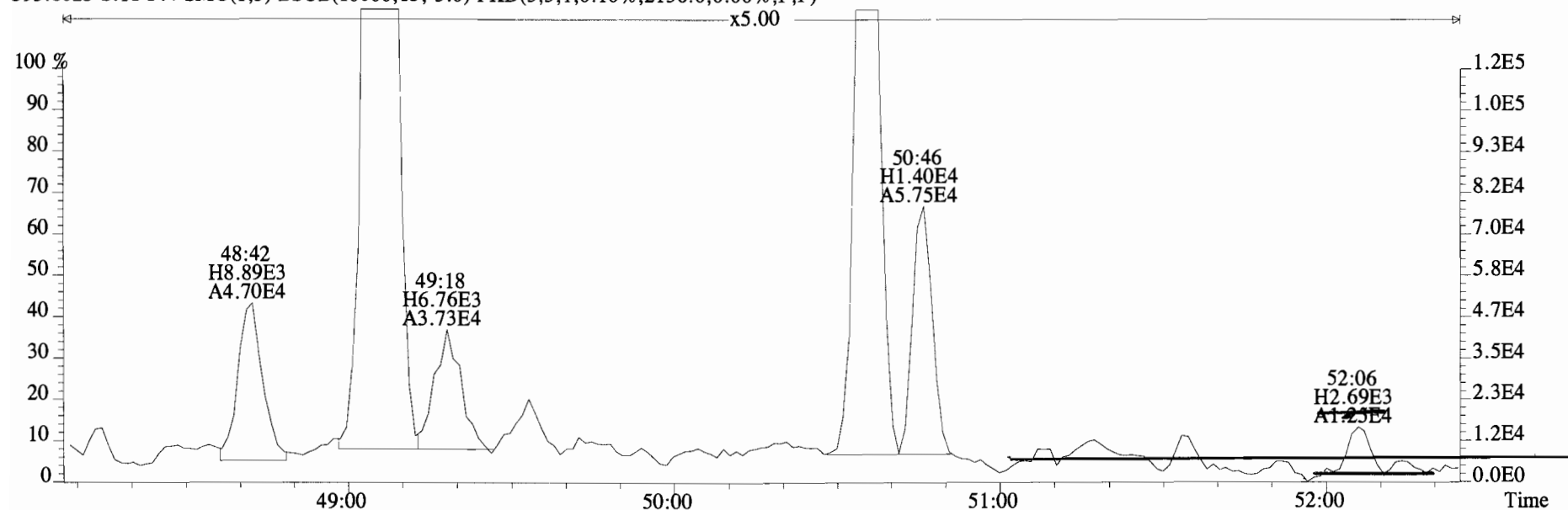


File:140911E1 #1-557 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2136.0,0.00%,F,F)

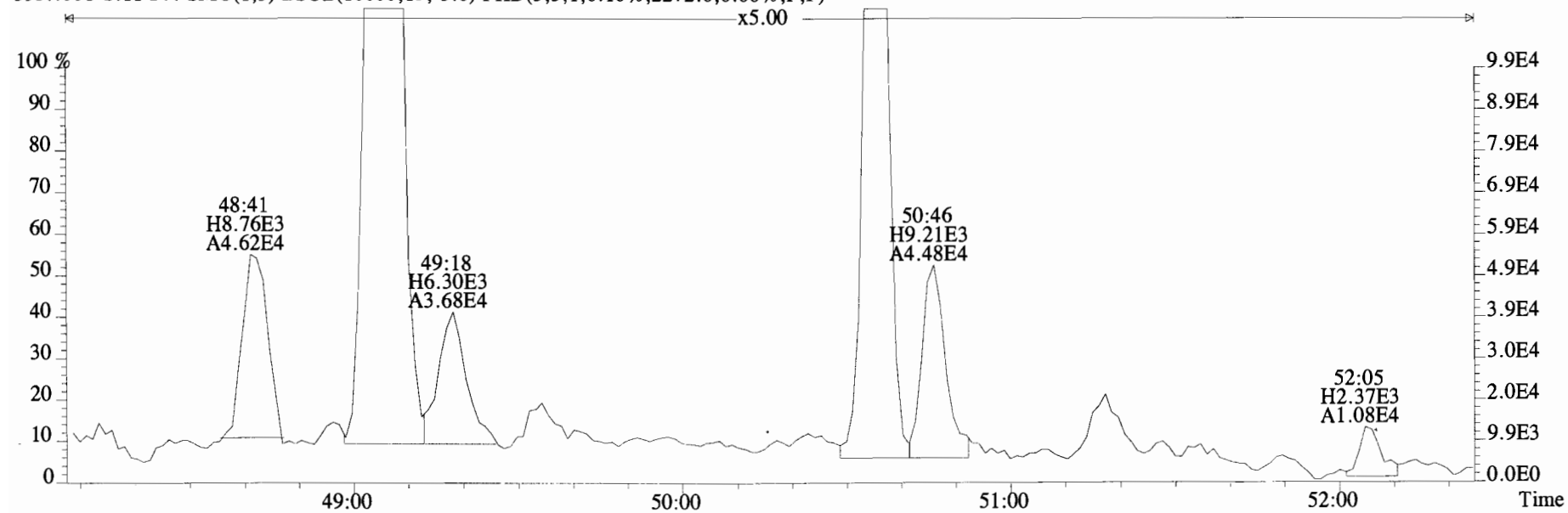




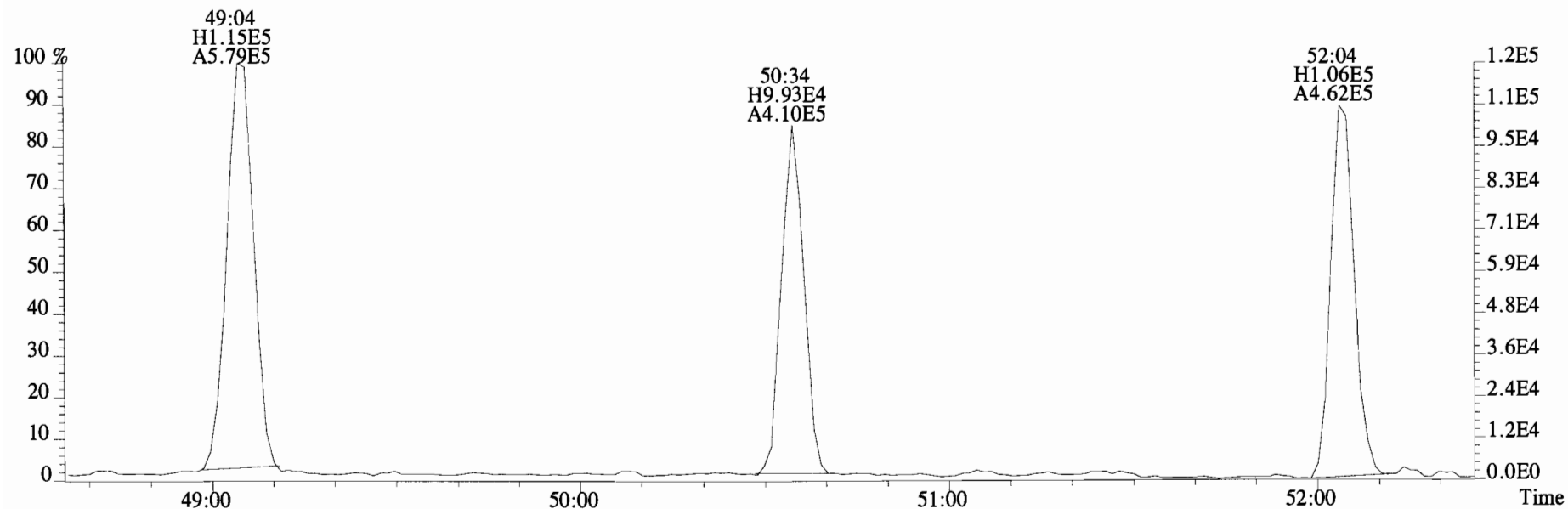
File:140911E1 #1-557 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2136.0,0.00%,F,F)



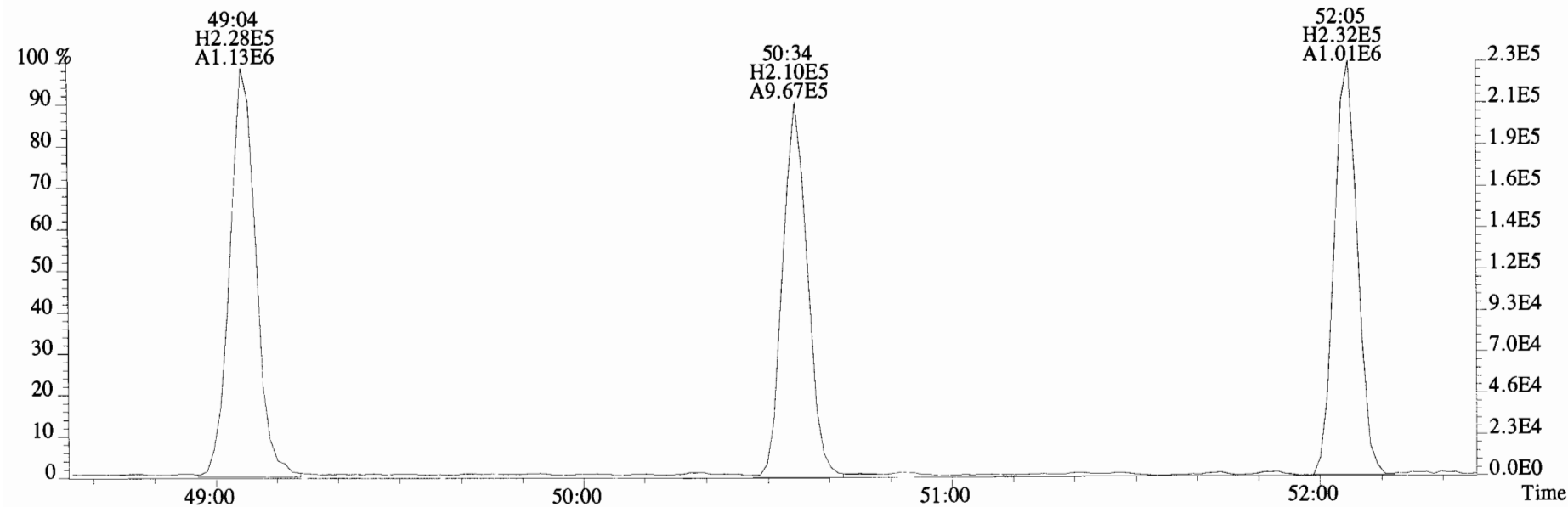
395.7995 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)



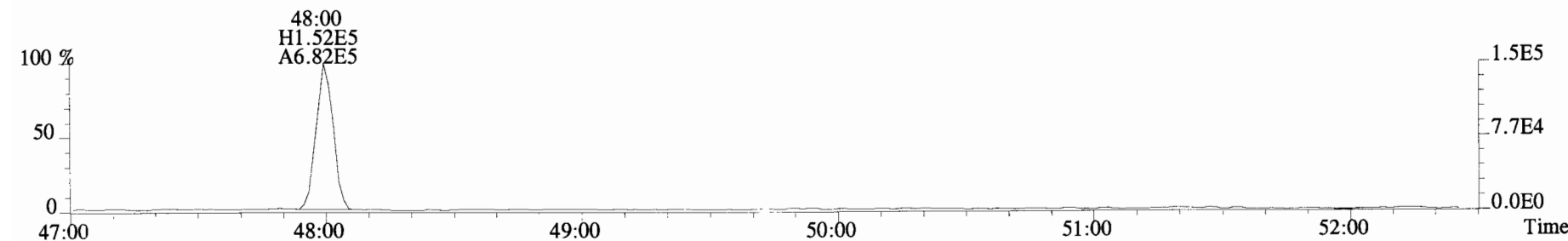
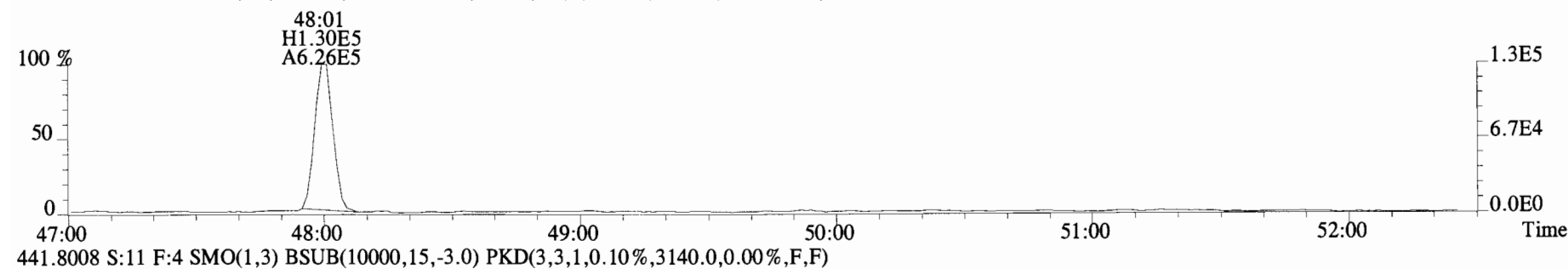
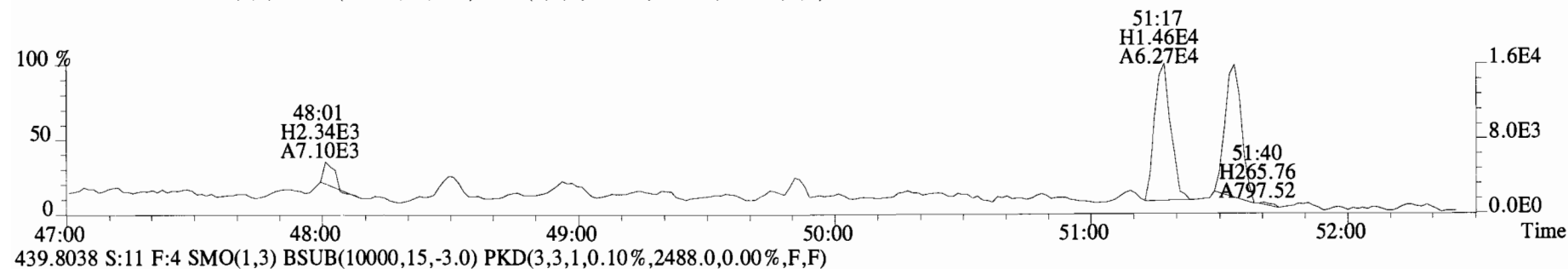
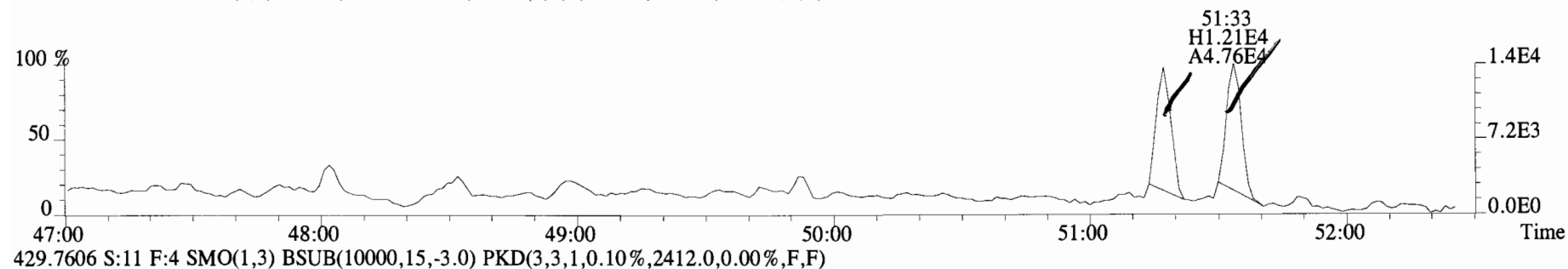
File:140911E1 #1-557 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
403.8457 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2532.0,0.00%,F,F)



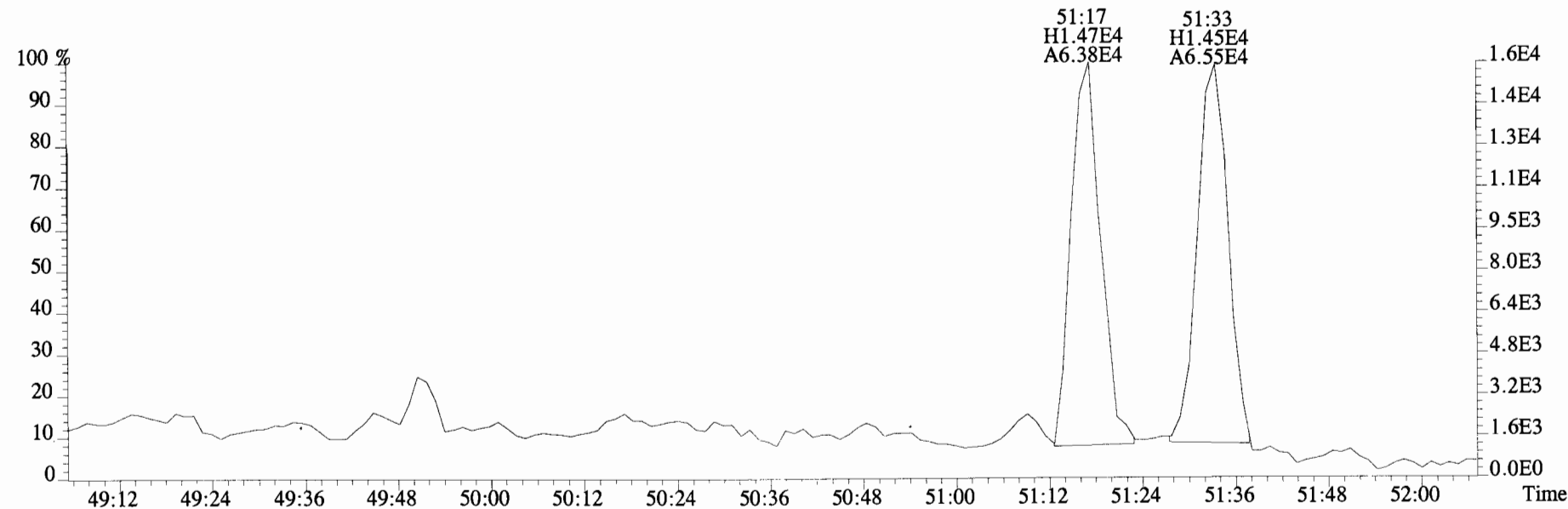
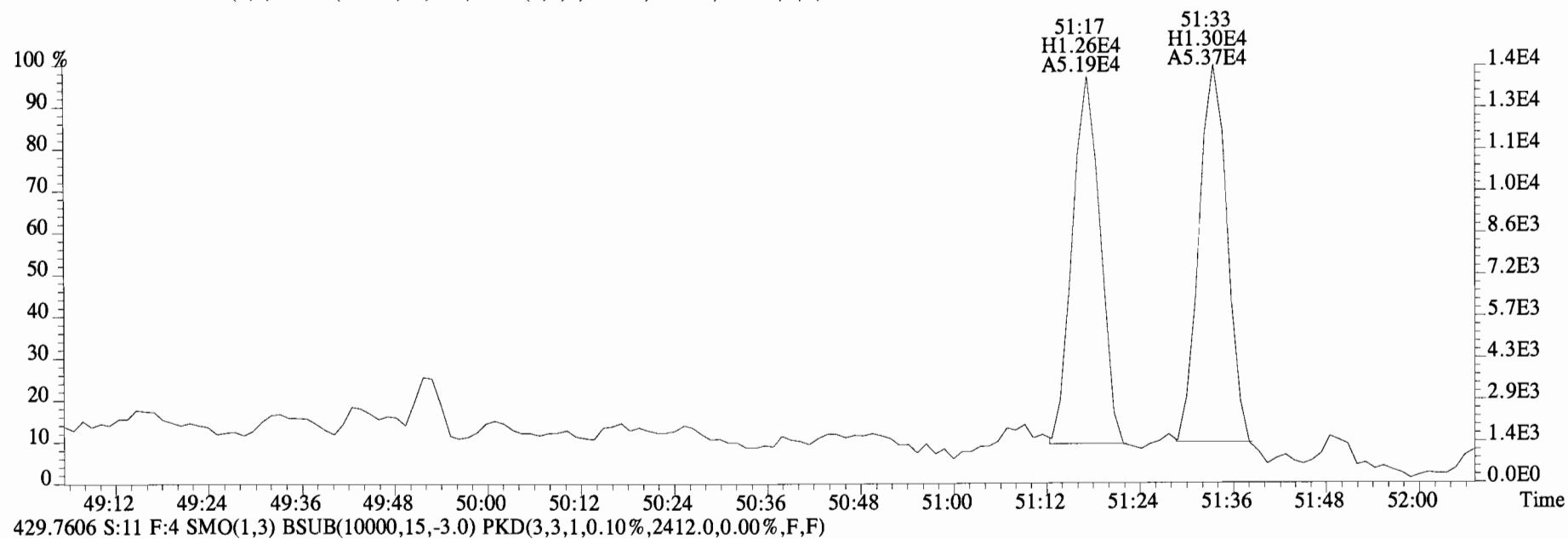
405.8428 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2292.0,0.00%,F,F)



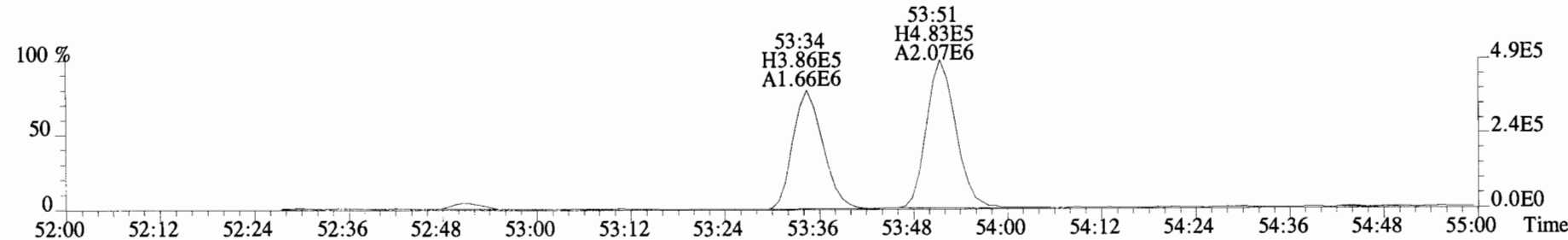
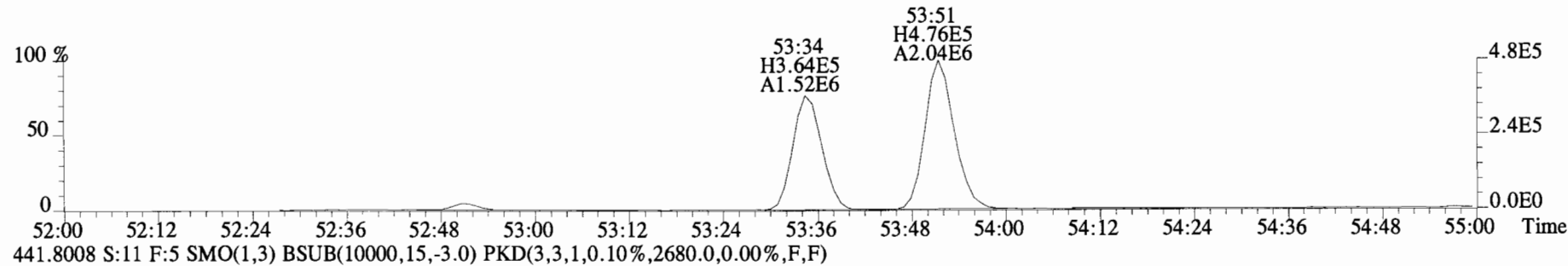
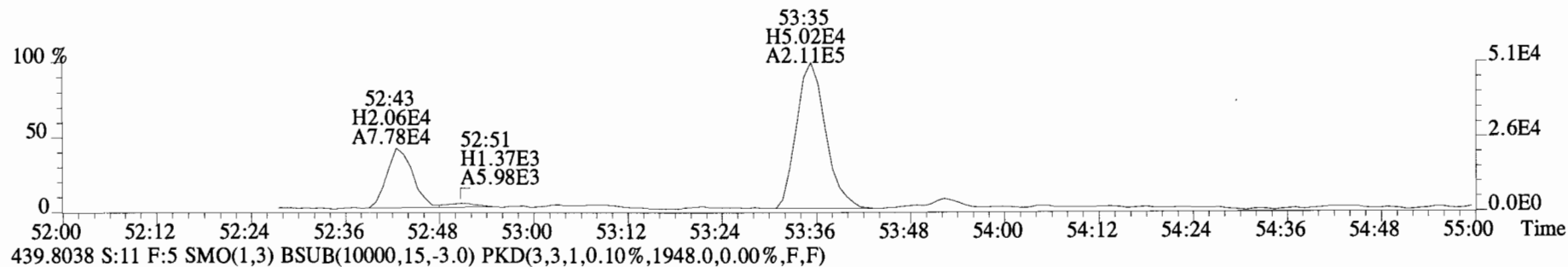
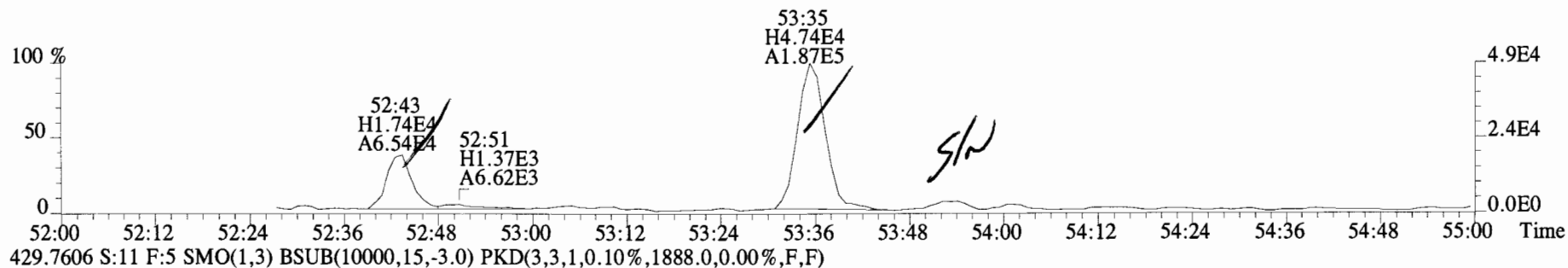
File:140911E1 #1-557 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
429.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2320.0,0.00%,F,F)



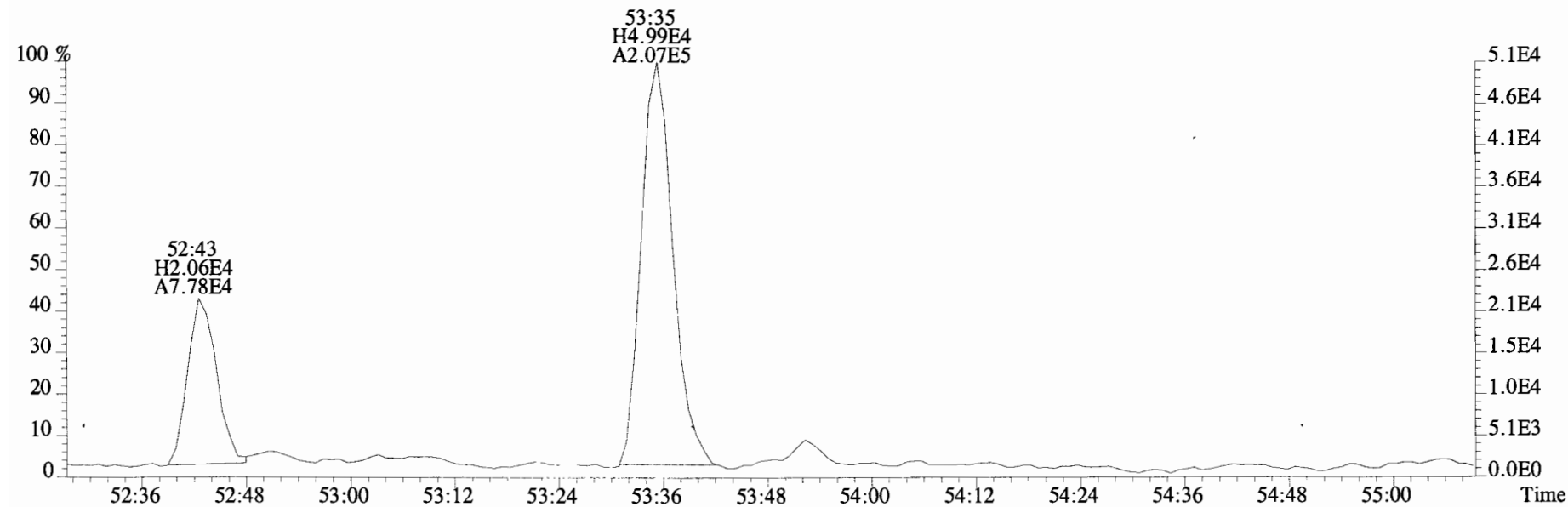
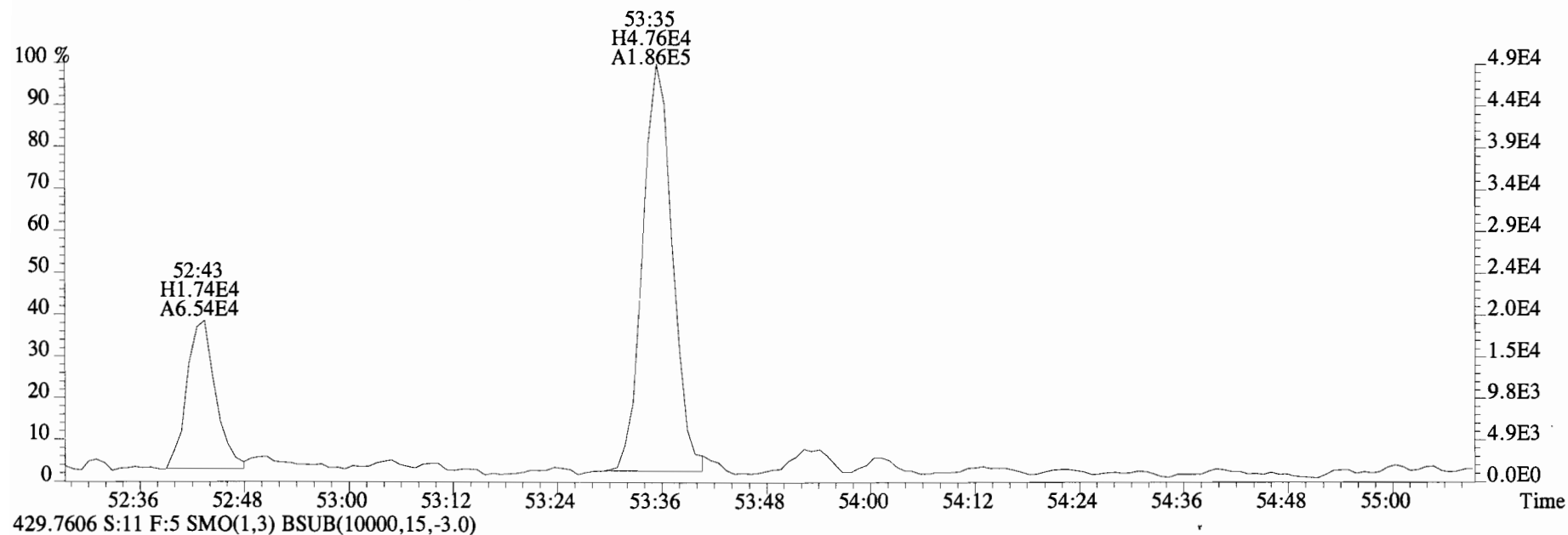
File:140911E1 #1-557 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
427.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2320.0,0.00%,F,F)



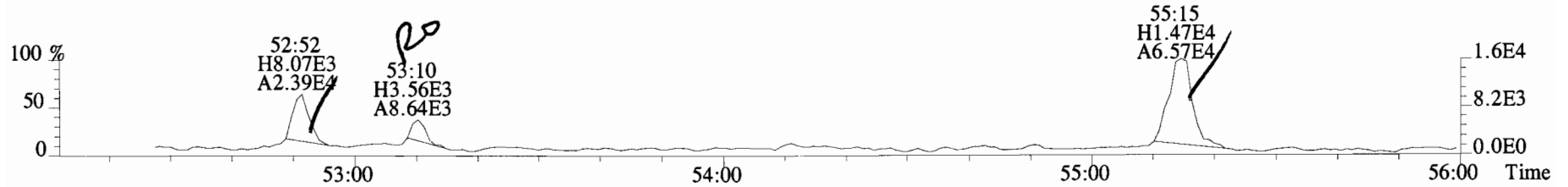
File:140911E1 #1-440 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
427.7635 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1652.0,0.00%,F,F)



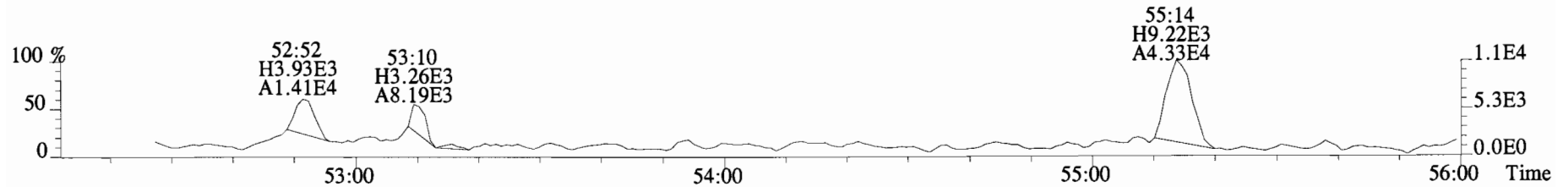
File:140911E1 #1-440 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
427.7635 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0)



File:140911E1 #1-440 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
463.7216 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)



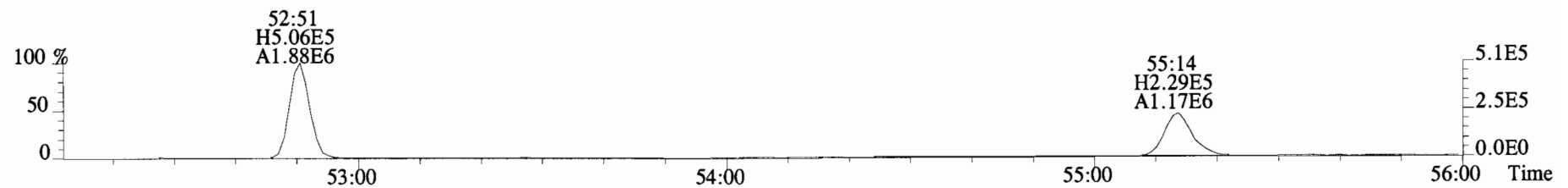
465.7186 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1596.0,0.00%,F,F)



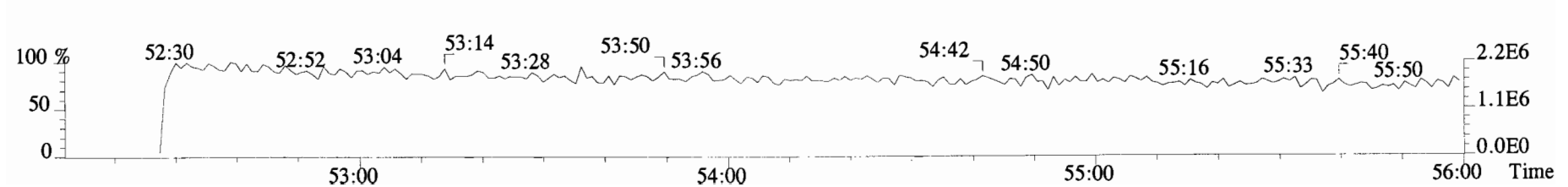
473.7648 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



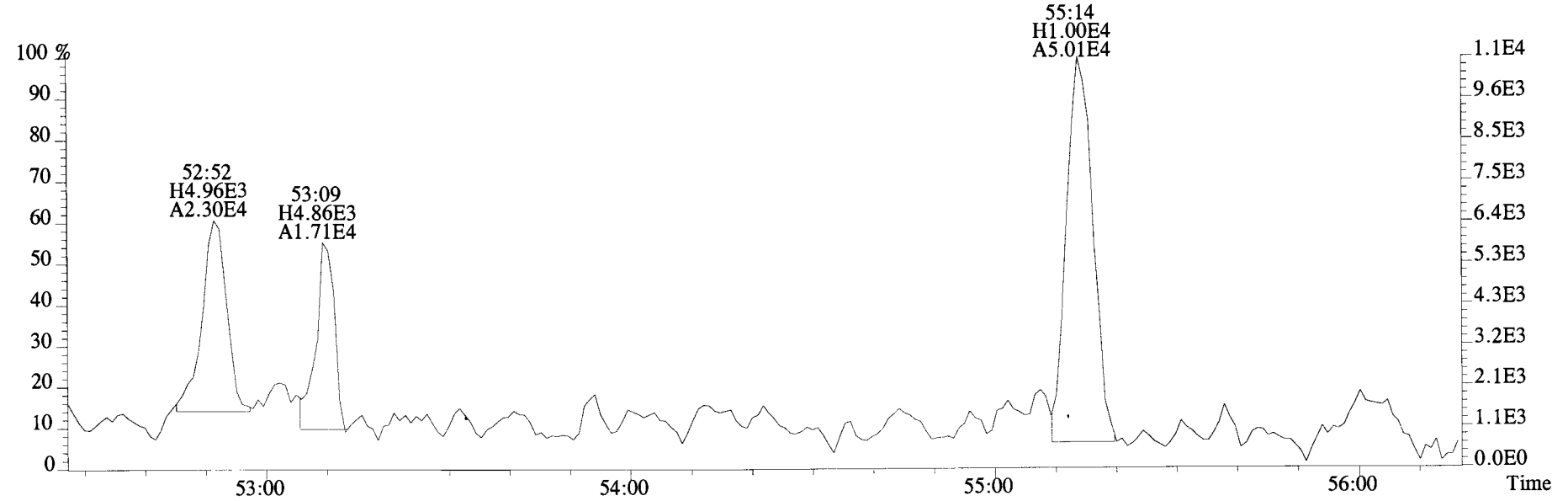
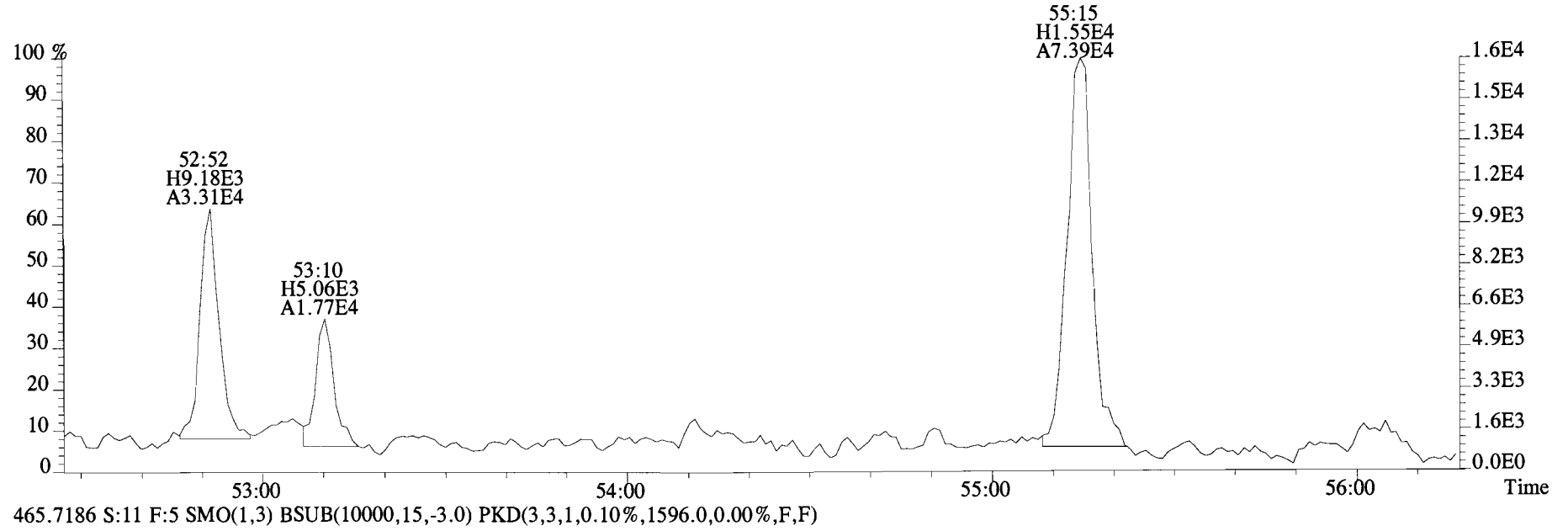
475.7619 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



492.9697 S:11 F:5

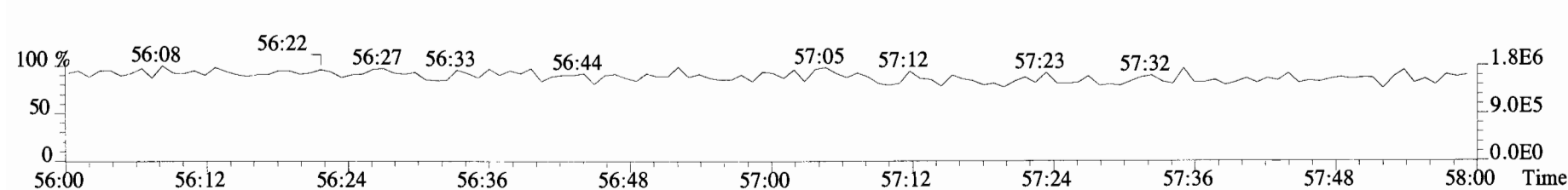
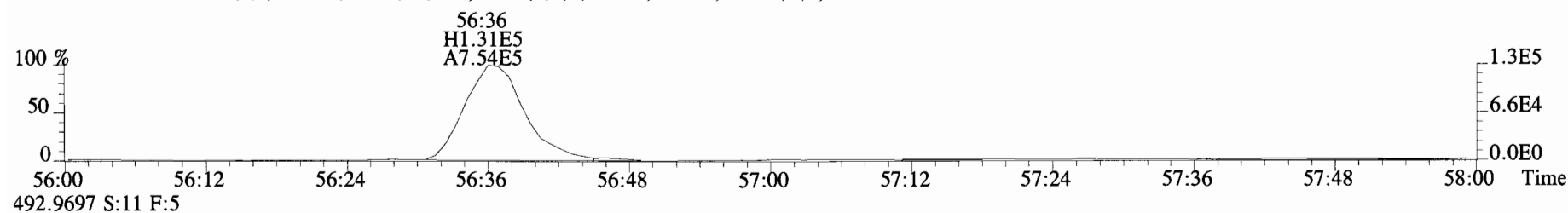
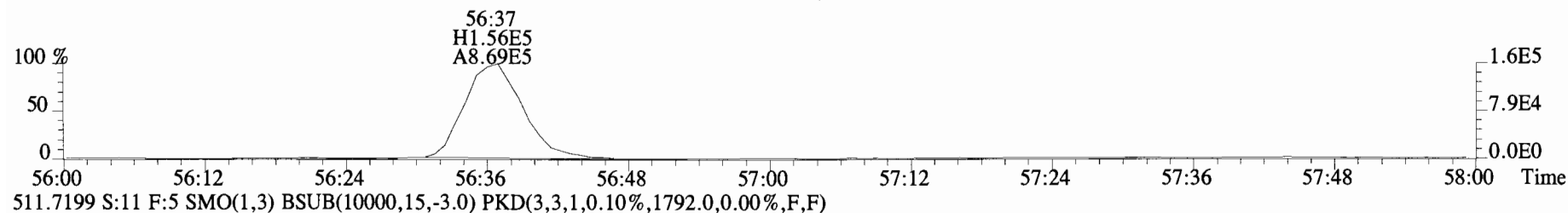
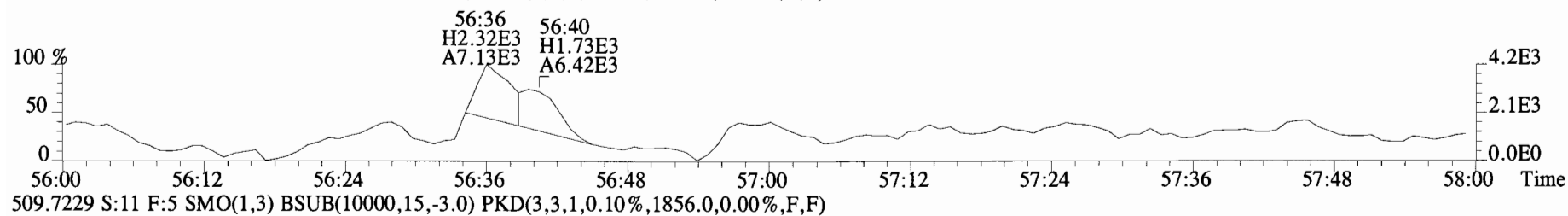
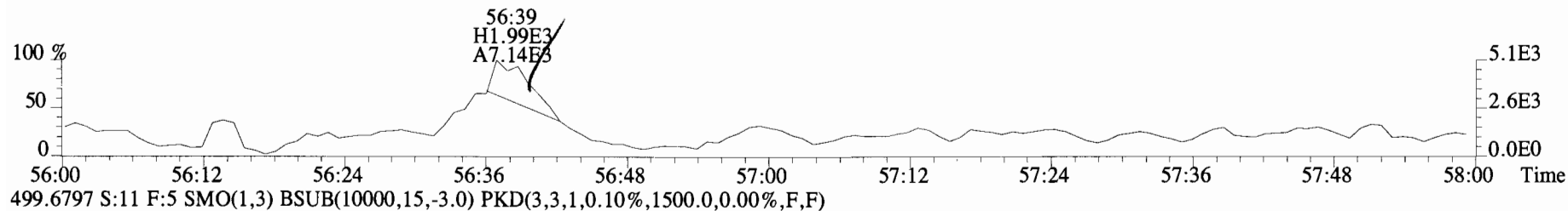


File:140911E1 #1-440 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
463.7216 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)

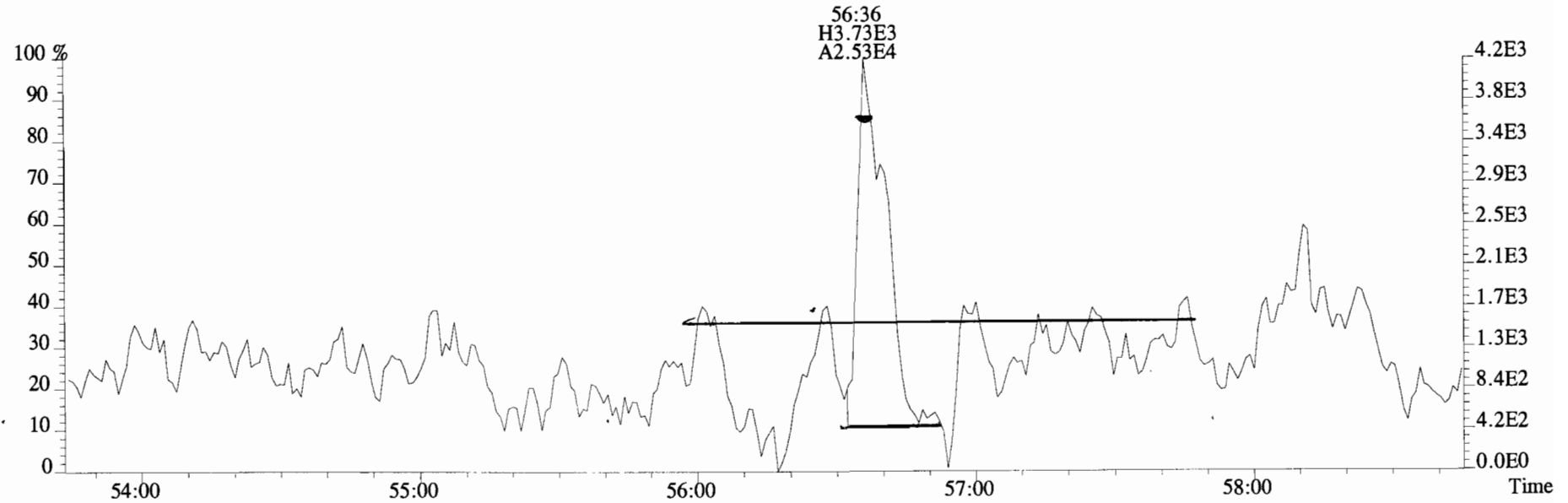
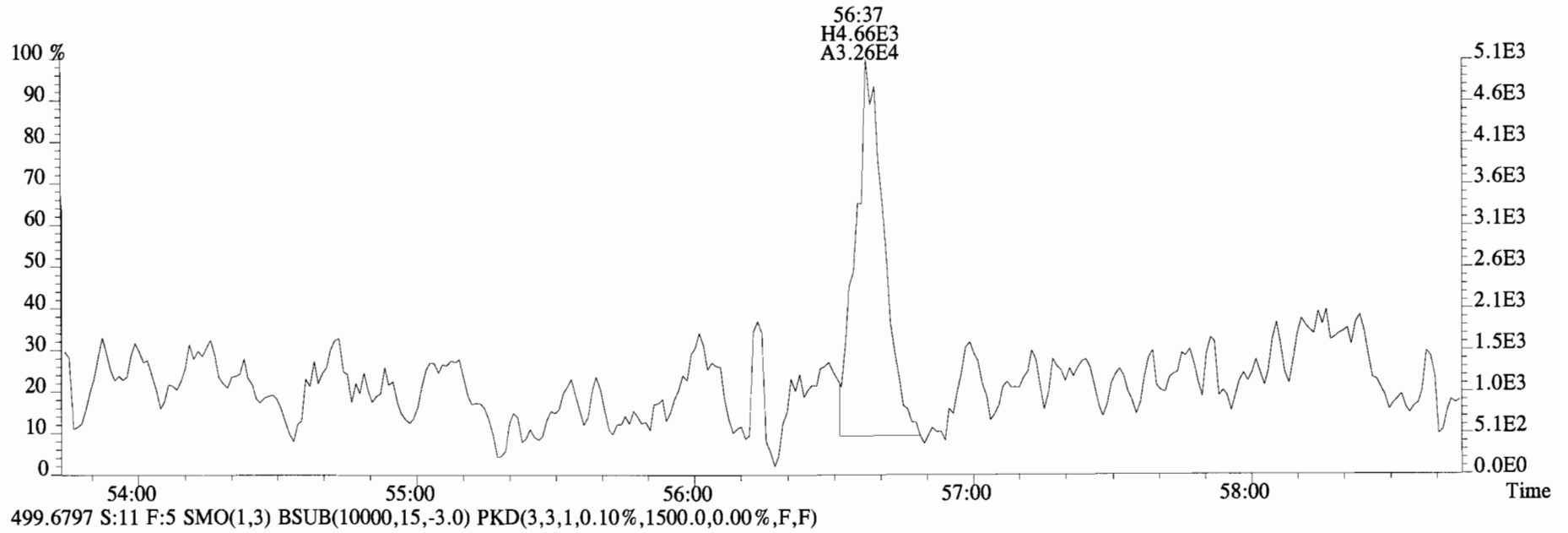




File:140911E1 #1-440 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
497.6826 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



File:140911E1 #1-440 Acq:12-SEP-2014 00:59:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400647-03RE1 CS-SP-01-20140903-W DL 1:10 Exp:PCB\_ZB1  
497.6826 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



Client ID: Method Blank  
Lab ID: B4I0032-BLK1

Filename: 140919E2 S:5 Acq:20-SEP-14 04:00:37  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 3.00000

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n Not F $\eta$	1.19	*		3890	2.5	3.03	*	0.996-1.006	
Mono	PCB-2	*	*	n Not F $\eta$	1.18	*		3890	2.5	3.04	*	0.984-0.994	
Mono	PCB-3	*	*	n Not F $\eta$	1.43	*		3890	2.5	2.52	*	0.996-1.006	
Di	PCB-4/10	*	*	n Not F $\eta$	1.57	*		19300	2.5	14.6	*	0.997-1.007	
Di	PCB-7/9	*	*	n Not F $\eta$	1.21	*		19300	2.5	12.4	*	0.866-0.874	
Di	PCB-6	*	*	n Not F $\eta$	1.30	*		19300	2.5	11.5	*	0.890-0.899	
Di	PCB-5/8	*	*	n Not F $\eta$	1.15	*		19300	2.5	13.0	*	0.907-0.917	
Di	PCB-14	*	*	n Not F $\eta$	1.11	*		19300	2.5	12.8	*	0.949-0.959	
Di	PCB-11	*	*	n Not F $\eta$	1.09	*		19300	2.5	13.0	*	0.995-1.005	
Di	PCB-12/13	*	*	n Not F $\eta$	1.19	*		19300	2.5	11.9	*	1.011-1.021	
Di	PCB-15	*	*	n Not F $\eta$	1.28	*		19300	2.5	11.0	*	1.023-1.033	
Tri	PCB-19	*	*	n Not F $\eta$	1.04	*		1840	2.5	1.54	*	0.996-1.006	
Tri	PCB-30	*	*	n Not F $\eta$	1.71	*		1840	2.5	0.942	*	1.032-1.042	
Tri	PCB-18	*	*	n Not F $\eta$	0.78	*		1840	2.5	1.34	*	0.949-0.959	
Tri	PCB-17	*	*	n Not F $\eta$	0.92	*		1840	2.5	1.13	*	0.956-0.966	
Tri	PCB-24/27	*	*	n Not F $\eta$	1.19	*		1840	2.5	0.879	*	0.977-0.987	
Tri	PCB-16/32	*	*	n Not F $\eta$	0.94	*		1840	2.5	1.11	*	0.995-1.005	
Tri	PCB-34	*	*	n Not F $\eta$	1.14	*		1890	2.5	1.27	*	0.955-0.965	
Tri	PCB-23	*	*	n Not F $\eta$	1.28	*		1890	2.5	1.13	*	0.959-0.969	
Tri	PCB-29	*	*	n Not F $\eta$	1.08	*		1890	2.5	1.33	*	0.967-0.977	
Tri	PCB-26	*	*	n Not F $\eta$	1.21	*		1890	2.5	1.19	*	0.974-0.984	
Tri	PCB-25	*	*	n Not F $\eta$	1.26	*		1890	2.5	1.14	*	0.979-0.989	
Tri	PCB-31	*	*	n Not F $\eta$	1.28	*		1890	2.5	1.12	*	0.992-1.002	
Tri	PCB-28	*	*	n Not F $\eta$	1.71	*		1890	2.5	0.841	*	0.995-1.005	
Tri	PCB-20/21/33	*	*	n Not F $\eta$	1.08	*		1890	2.5	1.33	*	1.017-1.027	
Tri	PCB-22	*	*	n Not F $\eta$	1.21	*		1890	2.5	1.19	*	1.032-1.042	
Tri	PCB-36	*	*	n Not F $\eta$	1.14	*		1890	2.5	1.33	*	0.928-0.938	
Tri	PCB-39	*	*	n Not F $\eta$	1.12	*		1890	2.5	1.36	*	0.943-0.953	
Tri	PCB-38	*	*	n Not F $\eta$	1.20	*		1890	2.5	1.26	*	0.966-0.976	
Tri	PCB-35	*	*	n Not F $\eta$	1.23	*		1890	2.5	1.23	*	0.982-0.992	
Tri	PCB-37	*	*	n Not F $\eta$	1.23	*		1890	2.5	1.23	*	0.995-1.005	
Tetra	PCB-54	*	*	n Not F $\eta$	1.10	*		2260	2.5	1.50	*	0.996-1.006	
Tetra	PCB-50	*	*	n Not F $\eta$	0.88	*		2260	2.5	1.87	*	1.037-1.047	
Tetra	PCB-53	*	*	n Not F $\eta$	1.06	*		2260	2.5	1.78	*	0.942-0.952	
Tetra	PCB-51	*	*	n Not F $\eta$	0.99	*		2260	2.5	1.91	*	0.952-0.962	
Tetra	PCB-45	*	*	n Not F $\eta$	0.86	*		2260	2.5	2.19	*	0.966-0.976	
Tetra	PCB-46	*	*	n Not F $\eta$	0.85	*		2260	2.5	2.24	*	0.981-0.991	

Integrations by:

Analyst: Dms

Date: 9/22/14

Reviewed by: ML Date: 9/22/14

Client ID: Method Blank  
Lab ID: B4I0032-BLK1

Filename: 140919E2 S:5 Acq:20-SEP-14 04:00:37  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:3.0000

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	* n	NotFη	1.28	*		2260	2.5	1.48	*	0.996-1.006	
Tetra	PCB-73	*	* n	NotFη	1.35	*		2260	2.5	1.40	*	1.000-1.010	
Tetra	PCB-43/49	*	* n	NotFη	0.99	*		2260	2.5	1.90	*	1.005-1.015	
Tetra	PCB-47	*	* n	NotFη	1.06	*		2260	2.5	1.62	*	0.996-1.006	
Tetra	PCB-48/75	*	* n	NotFη	1.23	*		2260	2.5	1.40	*	0.999-1.009	
Tetra	PCB-65	*	* n	NotFη	1.22	*		2260	2.5	1.40	*	1.008-1.018	
Tetra	PCB-62	*	* n	NotFη	1.22	*		2260	2.5	1.41	*	1.011-1.021	
Tetra	PCB-44	*	* n	NotFη	0.86	*		2260	2.5	2.00	*	1.021-1.031	
Tetra	PCB-42/59	*	* n	NotFη	1.14	*		2260	2.5	1.51	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	* n	NotFη	1.21	*		2260	2.5	1.42	*	1.046-1.056	
Tetra	PCB-68	*	* n	NotFη	1.35	*		2260	2.5	1.28	*	1.054-1.064	
Tetra	PCB-40	*	* n	NotFη	0.70	*		2260	2.5	2.45	*	1.061-1.071	
Tetra	PCB-57	*	* n	NotFη	0.98	*		2260	2.5	1.47	*	0.965-0.975	
Tetra	PCB-67	*	* n	NotFη	1.11	*		2260	2.5	1.30	*	0.974-0.984	
Tetra	PCB-58	*	* n	NotFη	0.93	*		2260	2.5	1.55	*	0.977-0.987	
Tetra	PCB-63	*	* n	NotFη	0.95	*		2260	2.5	1.51	*	0.982-0.992	
Tetra	PCB-74	*	* n	NotFη	1.24	*		2260	2.5	1.16	*	0.990-1.000	
Tetra	PCB-61/70	*	* n	NotFη	0.95	*		2260	2.5	1.51	*	0.995-1.005	
Tetra	PCB-76/66	*	* n	NotFη	1.04	*		2260	2.5	1.38	*	1.001-1.011	
Tetra	PCB-80	*	* n	NotFη	1.19	*		2260	2.5	1.13	*	0.996-1.006	
Tetra	PCB-55	*	* n	NotFη	1.04	*		2260	2.5	1.29	*	1.005-1.015	
Tetra	PCB-56/60	*	* n	NotFη	1.01	*		2260	2.5	1.33	*	1.019-1.029	
Tetra	PCB-79	*	* n	NotFη	1.08	*		2260	2.5	1.24	*	1.048-1.058	
Tetra	PCB-78	*	* n	NotFη	1.27	*		2260	2.5	1.17	*	0.982-0.992	
Tetra	PCB-81	*	* n	NotFη	1.33	*		2260	2.5	1.12	*	0.995-1.005	
Tetra	PCB-77	*	* n	NotFη	1.10	*		2260	2.5	1.29	*	0.995-1.005	
Penta	PCB-104	*	* n	NotFη	1.18	*		1990	2.5	2.10	*	0.996-1.006	
Penta	PCB-96	*	* n	NotFη	1.14	*		1990	2.5	2.19	*	1.034-1.044	
Penta	PCB-103	*	* n	NotFη	0.96	*		1990	2.5	2.60	*	1.050-1.060	
Penta	PCB-100	*	* n	NotFη	0.94	*		1990	2.5	2.65	*	1.061-1.071	
Penta	PCB-94	*	* n	NotFη	1.06	*		1990	2.5	3.16	*	0.980-0.990	
Penta	PCB-95/98/102	*	* n	NotFη	1.22	*		1990	2.5	2.72	*	0.995-1.005	
Penta	PCB-93	*	* n	NotFη	0.84	*		1990	2.5	3.96	*	0.997-1.007	
Penta	PCB-88/91	*	* n	NotFη	1.12	*		1990	2.5	2.99	*	1.005-1.015	
Penta	PCB-121	*	* n	NotFη	1.62	*		1990	2.5	2.07	*	1.009-1.019	
Penta	PCB-84/92	*	* n	NotFη	1.05	*		1990	2.5	2.81	*	0.985-0.995	
Penta	PCB-89	*	* n	NotFη	1.13	*		1990	2.5	2.60	*	0.991-1.001	

Analyst: *DMS*

Date: *9/22/14*

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	*	n	NotF $\eta$	1.10	*	1990	2.5	2.67	*	0.995-1.005	
Penta	PCB-113	*	*	n	NotF $\eta$	1.41	*	1990	2.5	2.08	*	1.002-1.012	
Penta	PCB-99	*	*	n	NotF $\eta$	1.34	*	1990	2.5	2.20	*	1.004-1.014	
Penta	PCB-119	*	*	n	NotF $\eta$	1.53	*	1990	2.5	2.08	*	0.982-0.992	
Penta	PCB-108/112	*	*	n	NotF $\eta$	1.28	*	1990	2.5	2.49	*	0.986-0.996	
Penta	PCB-83	*	*	n	NotF $\eta$	1.52	*	1990	2.5	2.10	*	0.990-1.000	
Penta	PCB-97	*	*	n	NotF $\eta$	1.18	*	1990	2.5	2.70	*	0.995-1.005	
Penta	PCB-86	*	*	n	NotF $\eta$	0.84	*	1990	2.5	3.78	*	0.999-1.009	
Penta	PCB-87/117/125	*	*	n	NotF $\eta$	1.55	*	1990	2.5	2.06	*	1.002-1.012	
Penta	PCB-111/115	*	*	n	NotF $\eta$	1.63	*	1990	2.5	1.95	*	1.006-1.016	
Penta	PCB-85/116	*	*	n	NotF $\eta$	1.30	*	1990	2.5	2.45	*	1.010-1.020	
Penta	PCB-120	*	*	n	NotF $\eta$	1.68	*	1990	2.5	1.90	*	1.016-1.026	
Penta	PCB-110	*	*	n	NotF $\eta$	1.56	*	1990	2.5	2.05	*	1.020-1.030	
Penta	PCB-82	*	*	n	NotF $\eta$	0.76	*	1990	2.5	3.12	*	0.971-0.981	
Penta	PCB-124	*	*	n	NotF $\eta$	1.47	*	1990	2.5	1.61	*	0.988-0.998	
Penta	PCB-107/109	*	*	n	NotF $\eta$	1.32	*	1990	2.5	1.79	*	0.991-1.001	
Penta	PCB-123	*	*	n	NotF $\eta$	1.17	*	1990	2.5	2.03	*	0.996-1.006	
Penta	PCB-106/118	*	*	n	NotF $\eta$	1.17	*	1990	2.5	2.05	*	0.996-1.006	
Penta	PCB-114	*	*	n	NotF $\eta$	1.30	*	2010	2.5	1.85	*	0.995-1.005	
Penta	PCB-122	*	*	n	NotF $\eta$	1.12	*	2010	2.5	2.14	*	0.999-1.009	
Penta	PCB-105	*	*	n	NotF $\eta$	1.30	*	2010	2.5	1.83	*	0.995-1.005	
Penta	PCB-127	*	*	n	NotF $\eta$	1.33	*	2010	2.5	1.65	*	0.996-1.006	
Penta	PCB-126	*	*	n	NotF $\eta$	1.18	*	2010	2.5	2.14	*	0.995-1.005	
Hexa	PCB-155	*	*	n	NotF $\eta$	1.11	*	1730	2.5	1.67	*	0.966-1.006	
Hexa	PCB-150	*	*	n	NotF $\eta$	1.00	*	1730	2.5	1.87	*	1.030-1.040	
Hexa	PCB-152	*	*	n	NotF $\eta$	1.12	*	1730	2.5	1.67	*	1.043-1.053	
Hexa	PCB-145	*	*	n	NotF $\eta$	1.20	*	1730	2.5	1.55	*	1.055-1.065	
Hexa	PCB-136	*	*	n	NotF $\eta$	1.18	*	1730	2.5	1.58	*	1.064-1.074	
Hexa	PCB-148	*	*	n	NotF $\eta$	0.74	*	1730	2.5	2.51	*	1.066-1.076	
Hexa	PCB-154	*	*	n	NotF $\eta$	0.86	*	1730	2.5	2.17	*	1.080-1.090	
Hexa	PCB-151	*	*	n	NotF $\eta$	0.75	*	1730	2.5	2.50	*	1.097-1.107	
Hexa	PCB-135	*	*	n	NotF $\eta$	0.79	*	1730	2.5	2.35	*	1.103-1.113	
Hexa	PCB-144	*	*	n	NotF $\eta$	0.76	*	1730	2.5	2.45	*	1.105-1.117	
Hexa	PCB-147	*	*	n	NotF $\eta$	0.82	*	1730	2.5	2.27	*	1.109-1.121	
Hexa	PCB-139/149	*	*	n	NotF $\eta$	0.76	*	1730	2.5	2.45	*	1.116-1.128	
Hexa	PCB-140	*	*	n	NotF $\eta$	0.72	*	1730	2.5	2.58	*	1.121-1.133	
Hexa	PCB-134/143	*	*	n	NotF $\eta$	0.92	*	1460	2.5	1.64	*	0.970-0.980	

Analyst: Dms

Date: 9/22/14

Client ID: Method Blank  
Lab ID: B4I0032-BLK1

Filename: 140919E2 S:5 Acq:20-SEP-14 04:00:37  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:3.0000

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	* n	Not F $\eta$	0.82	*		1460	2.5	1.84	*	0.977-0.987	
Hexa	PCB-131	*	* n	Not F $\eta$	0.91	*		1460	2.5	1.66	*	0.981-0.991	
Hexa	PCB-146/165	*	* n	Not F $\eta$	1.25	*		1460	2.5	1.21	*	0.986-0.996	
Hexa	PCB-132/161	*	* n	Not F $\eta$	1.10	*		1460	2.5	1.36	*	0.992-1.002	
Hexa	PCB-153	*	* n	Not F $\eta$	1.25	*		1460	2.5	1.20	*	0.995-1.005	
Hexa	PCB-168	*	* n	Not F $\eta$	1.45	*		1460	2.5	1.04	*	1.001-1.011	
Hexa	PCB-141	*	* n	Not F $\eta$	1.09	*		1460	2.5	1.48	*	0.995-1.005	
Hexa	PCB-137	*	* n	Not F $\eta$	1.06	*		1460	2.5	1.51	*	1.004-1.014	
Hexa	PCB-130	*	* n	Not F $\eta$	0.96	*		1460	2.5	1.67	*	1.006-1.016	
Hexa	PCB-138/163/164	*	* n	Not F $\eta$	1.29	*		1460	2.5	1.19	*	0.996-1.006	
Hexa	PCB-158/160	*	* n	Not F $\eta$	1.34	*		1460	2.5	1.14	*	1.001-1.011	
Hexa	PCB-129	*	* n	Not F $\eta$	0.85	*		1460	2.5	1.80	*	1.007-1.017	
Hexa	PCB-166	*	* n	Not F $\eta$	1.19	*		1460	2.5	1.16	*	0.988-0.998	
Hexa	PCB-159	*	* n	Not F $\eta$	1.11	*		1460	2.5	1.24	*	0.996-1.006	
Hexa	PCB-128/162	*	* n	Not F $\eta$	1.05	*		1460	2.5	1.32	*	1.002-1.012	
Hexa	PCB-167	*	* n	Not F $\eta$	1.20	*		1460	2.5	1.06	*	0.995-1.005	
Hexa	PCB-156	*	* n	Not F $\eta$	1.14	*		1460	2.5	1.16	*	0.996-1.006	
Hexa	PCB-157	*	* n	Not F $\eta$	1.16	*		1460	2.5	1.09	*	0.995-1.005	
Hexa	PCB-169	*	* n	Not F $\eta$	1.12	*		1460	2.5	1.14	*	0.995-1.005	
Hepta	PCB-188	*	* n	Not F $\eta$	1.58	*		1310	2.5	0.637	*	0.996-1.006	
Hepta	PCB-184	*	* n	Not F $\eta$	1.63	*		1310	2.5	0.617	*	1.006-1.016	
Hepta	PCB-179	*	* n	Not F $\eta$	1.30	*		1310	2.5	0.772	*	1.024-1.034	
Hepta	PCB-176	*	* n	Not F $\eta$	1.48	*		1310	2.5	0.681	*	1.035-1.045	
Hepta	PCB-186	*	* n	Not F $\eta$	1.45	*		1310	2.5	0.692	*	1.050-1.060	
Hepta	PCB-178	*	* n	Not F $\eta$	1.03	*		1310	2.5	0.973	*	1.061-1.071	
Hepta	PCB-175	*	* n	Not F $\eta$	1.01	*		1310	2.5	0.994	*	1.069-1.079	
Hepta	PCB-182/187	*	* n	Not F $\eta$	1.25	*		1310	2.5	0.804	*	1.073-1.083	
Hepta	PCB-183	*	* n	Not F $\eta$	1.21	*		1310	2.5	0.833	*	1.081-1.091	
Hepta	PCB-185	*	* n	Not F $\eta$	1.80	*		1310	2.5	0.701	*	0.951-0.961	
Hepta	PCB-174	*	* n	Not F $\eta$	1.38	*		1310	2.5	0.917	*	0.958-0.968	
Hepta	PCB-181	*	* n	Not F $\eta$	1.38	*		1310	2.5	0.915	*	0.960-0.970	
Hepta	PCB-177	*	* n	Not F $\eta$	1.26	*		1310	2.5	1.01	*	0.963-0.973	
Hepta	PCB-171	*	* n	Not F $\eta$	1.58	*		1310	2.5	0.798	*	0.970-0.980	
Hepta	PCB-173	*	* n	Not F $\eta$	1.11	*		1310	2.5	1.14	*	0.978-0.988	
Hepta	PCB-172	*	* n	Not F $\eta$	1.63	*		1310	2.5	0.773	*	0.987-0.997	
Hepta	PCB-192	*	* n	Not F $\eta$	1.74	*		1310	2.5	0.726	*	0.991-1.001	
Hepta	PCB-180	*	* n	Not F $\eta$	1.34	*		1310	2.5	0.940	*	0.995-1.005	

Analyst: *DMS*

Date: *9/22/14*

Client ID: Method Blank  
Lab ID: B4I0032-BLK1

Filename: 140919E2 S:5 Acq:20-SEP-14 04:00:37  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:3.0000

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n NotFη	1.72	*		1310	2.5	0.736	*	0.999-1.009	
Hepta	PCB-191	*	*	n NotFη	1.69	*		1310	2.5	0.746	*	1.004-1.014	
Hepta	PCB-170	*	*	n NotFη	1.60	*		1310	2.5	0.844	*	0.995-1.005	
Hepta	PCB-190	*	*	n NotFη	2.21	*		1310	2.5	0.610	*	0.998-1.008	
Hepta	PCB-189	*	*	n NotFη	1.55	*		1310	2.5	0.698	*	0.995-1.005	
Octa	PCB-202	*	*	n NotFη	1.08	*		1440	2.5	1.23	*	0.995-1.005	
Octa	PCB-201	*	*	n NotFη	1.15	*		1440	2.5	1.16	*	1.005-1.015	
Octa	PCB-204	*	*	n NotFη	1.14	*		1440	2.5	1.17	*	1.008-1.018	
Octa	PCB-197	*	*	n NotFη	1.07	*		1440	2.5	1.24	*	1.015-1.025	
Octa	PCB-200	*	*	n NotFη	1.06	*		1440	2.5	1.25	*	1.032-1.044	
Octa	PCB-198	*	*	n NotFη	0.76	*		1440	2.5	1.76	*	1.059-1.069	
Octa	PCB-199	*	*	n NotFη	0.80	*		1440	2.5	1.67	*	1.061-1.071	
Octa	PCB-196/203	*	*	n NotFη	0.80	*		1440	2.5	1.66	*	1.066-1.076	
Octa	PCB-195	*	*	n NotFη	1.23	*		1520	2.5	1.33	*	0.979-0.989	
Octa	PCB-194	*	*	n NotFη	1.21	*		1520	2.5	1.34	*	0.995-1.005	
Octa	PCB-205	*	*	n NotFη	1.54	*		1520	2.5	1.06	*	1.001-1.011	
Nona	PCB-208	*	*	n NotFη	0.93	*		1570	2.5	1.15	*	0.995-1.005	
Nona	PCB-207	*	*	n NotFη	1.08	*		1570	2.5	0.987	*	1.001-1.011	
Nona	PCB-206	*	*	n NotFη	1.02	*		1570	2.5	2.22	*	0.995-1.005	
Deca	PCB-209	*	*	n NotFη	1.17	*		1190	2.5	1.90	*	0.995-1.005	

Analyst: DMS

Date: 9/22/14

Client ID: Method Blank  
Lab ID: B4I0032-BLK1

Filename: 140919E2 S:5 Acq:20-SEP-14 04:00:37  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 3.0000

ConCal: ST140919E2-1  
EndCAL: NA

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	*	* n	NotFnd	1.27	*
Total Di-PCB	*	* n	NotFnd	1.21	*
Total Tri-PCB	*	* n	NotFnd	1.10	*
Total Tri-PCB	*	* 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: DMS

Date: 9/22/14



Lab ID: B4I0032-BLK1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS
13C-PCB-1	1.23e+08	3.39 y	0.87	16:18	0.623	0.629-0.635		2860	85.8	
13C-PCB-3	1.32e+08	3.43 y	0.91	18:55	0.724	0.725-0.733		2940	88.3	
13C-PCB-4	6.57e+07	1.59 y	0.59	20:15	0.775	0.775-0.783		2280	68.3	
13C-PCB-9	1.03e+08	1.59 y	0.90	22:02	0.843	0.842-0.850		2330	69.9	
13C-PCB-11	1.15e+08	1.58 y	0.94	25:26	0.973	0.968-0.978		2490	74.7	
13C-PCB-19	7.73e+07	1.13 y	0.53	24:25	0.934	0.930-0.940		2960	88.7	
13C-PCB-28	9.75e+07	1.13 y	0.93	29:17	1.003	0.999-1.009		2330	70.0	
13C-PCB-32	1.23e+08	1.11 y	0.80	27:20	1.046	1.040-1.050		3140	94.1	
13C-PCB-37	1.04e+08	1.13 y	0.84	33:09	1.136	1.131-1.143		2760	82.9	
13C-PCB-47	9.14e+07	0.83 y	0.81	32:12	0.871	0.866-0.874		2750	82.4	
13C-PCB-52	8.52e+07	0.85 y	0.77	31:41	0.858	0.853-0.861		2700	80.9	
13C-PCB-54	9.49e+07	0.85 y	0.97	28:10	0.762	0.758-0.766		2390	71.6	
13C-PCB-70	1.16e+08	0.86 y	1.00	35:43	0.966	0.961-0.971		2840	85.1	
13C-PCB-77	1.16e+08	0.86 y	0.94	39:50	1.078	1.073-1.083		3020	90.5	
13C-PCB-80	1.24e+08	0.86 y	1.03	36:07	0.977	0.972-0.982		2930	87.9	
13C-PCB-81	1.14e+08	0.85 y	0.92	39:13	1.062	1.057-1.067		3010	90.4	
13C-PCB-95	6.17e+07	1.61 y	0.74	36:00	0.914	0.908-0.918		2740	82.3	
13C-PCB-97	6.40e+07	1.63 y	0.70	38:60	0.989	0.984-0.994		2990	89.7	
13C-PCB-101	6.94e+07	1.62 y	0.78	37:41	0.956	0.951-0.961		2920	87.5	
13C-PCB-104	7.96e+07	1.60 y	1.00	32:51	0.834	0.828-0.836		2620	78.5	
13C-PCB-105	9.07e+07	1.72 y	1.37	43:15	0.929	0.924-0.934		2470	74.2	
13C-PCB-114	9.11e+07	1.72 y	1.36	42:23	0.911	0.905-0.915		2490	74.7	
13C-PCB-118	8.86e+07	1.66 y	0.96	41:44	1.059	1.054-1.064		3040	91.3	
13C-PCB-123	8.54e+07	1.61 y	0.89	41:33	1.054	1.050-1.060		3150	94.4	
13C-PCB-126	8.67e+07	1.66 y	1.31	45:29	0.977	0.972-0.982		2470	74.1	
13C-PCB-127	9.75e+07	1.71 y	1.47	43:35	0.936	0.931-0.941		2470	74.0	
13C-PCB-138	8.78e+07	1.33 y	1.10	44:59	0.966	0.961-0.971		2970	89.2	
13C-PCB-141	8.29e+07	1.32 y	1.07	44:09	0.948	0.943-0.953		2870	86.2	
13C-PCB-153	8.81e+07	1.34 y	1.15	43:24	0.932	0.927-0.937		2860	85.8	
13C-PCB-155	8.28e+07	1.28 y	0.84	37:14	0.945	0.939-0.949		3250	97.4	
13C-PCB-156	1.04e+08	1.35 y	1.30	48:15	1.036	1.032-1.042		2980	89.4	
13C-PCB-157	1.11e+08	1.33 y	1.36	48:31	1.042	1.038-1.048		3040	91.3	
13C-PCB-159	9.90e+07	1.32 y	1.25	46:16	0.994	0.989-0.999		2950	88.6	
13C-PCB-167	1.08e+08	1.33 y	1.35	46:57	1.009	1.004-1.014		2970	89.2	
13C-PCB-169	1.06e+08	1.31 y	1.29	50:38	1.088	1.083-1.093		3060	91.8	
13C-PCB-170	5.25e+07	0.47 y	0.54	51:00	1.096	1.089-1.101		3600	108	
13C-PCB-180	6.12e+07	0.47 y	0.68	49:32	1.064	1.060-1.070		3330	100	
13C-PCB-188	7.48e+07	0.45 y	0.92	43:02	0.925	0.919-0.929		3040	91.1	
13C-PCB-189	6.41e+07	0.45 y	0.72	52:29	1.128	1.120-1.132		3330	99.9	
13C-PCB-194	6.45e+07	0.91 y	0.80	53:59	0.995	0.990-1.000		3200	95.9	
13C-PCB-202	8.34e+07	0.93 y	0.84	48:28	1.041	1.036-1.046		3710	111	
13C-PCB-206	5.09e+07	0.81 y	0.65	55:38	1.025	1.021-1.031		3100	92.9	
13C-PCB-208	8.37e+07	0.78 y	1.08	53:15	0.981	0.976-0.986		3060	91.8	
13C-PCB-209	5.16e+07	1.20 y	0.61	56:60	1.050	1.045-1.055		3340	100	

CRS vs. RS									
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.24e+08	0.86 y	1.02	38:00	1.029	1.023-1.034		2970	89.2
13C-PCB-178	5.35e+07	0.45 y	0.61	45:49	0.984	0.979-0.990		3250	97.4

PS vs. IS									
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.24e+08	0.86 y	1.10	38:00	0.969	0.964-0.974		3290	98.6
13C-PCB-178	5.35e+07	0.45 y	0.90	45:49	0.925	0.920-0.930		3240	97.3

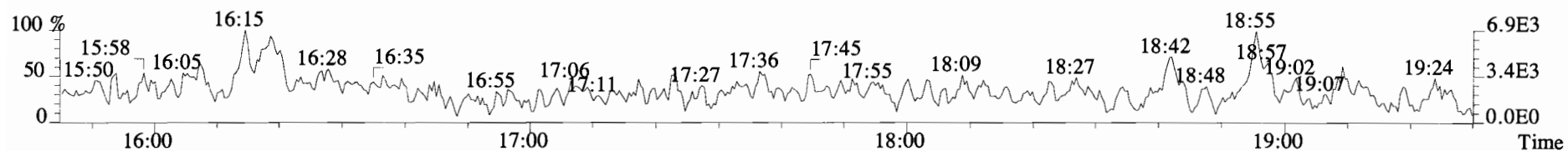
  

RS						
Name	Resp	RA	RRF	RT	Conc	Rec
13C-PCB-15	1.64e+08	1.59 y	1.00	26:08	3330	
13C-PCB-31	1.49e+08	1.13 y	1.00	29:11	3330	
13C-PCB-60	1.36e+08	0.85 y	1.00	36:57	3330	
13C-PCB-111	1.01e+08	1.60 y	1.00	39:25	3330	
13C-PCB-128	8.95e+07	1.29 y	1.00	46:33	3330	
13C-PCB-205	8.44e+07	0.92 y	1.00	54:16	3330	

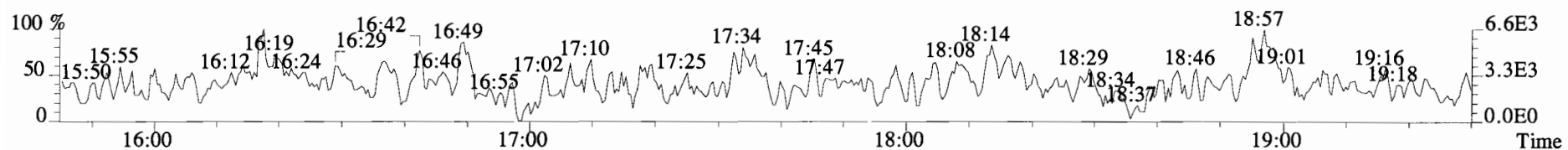
Analyst: *DMS*

Date: *9/22/14*

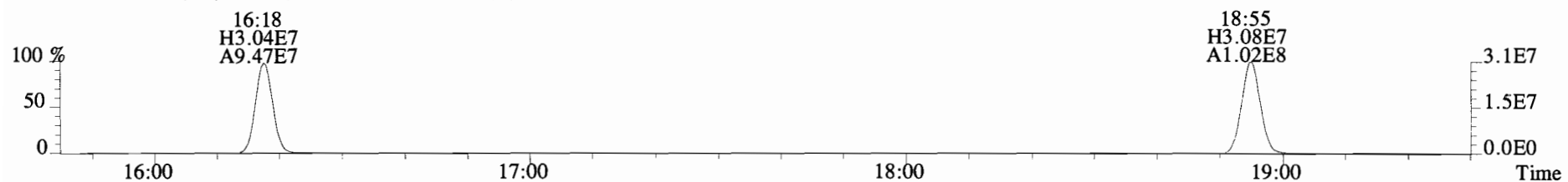
File:140919E2 #1-729 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2780.0,0.00%,F,F)



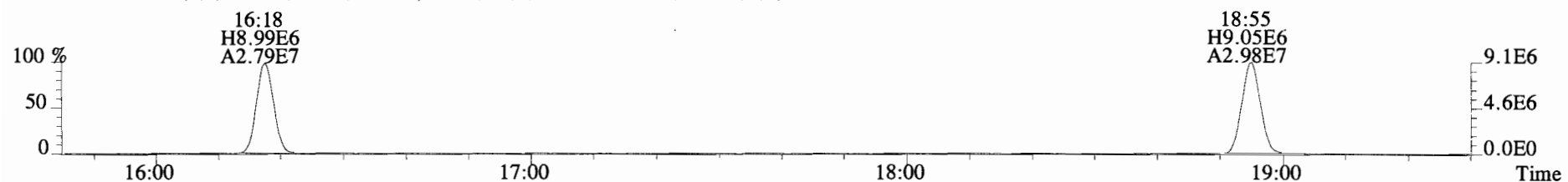
190.0363 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3336.0,0.00%,F,F)



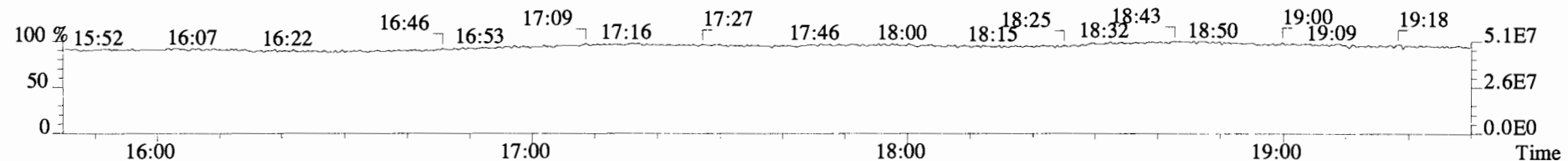
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6092.0,0.00%,F,F)



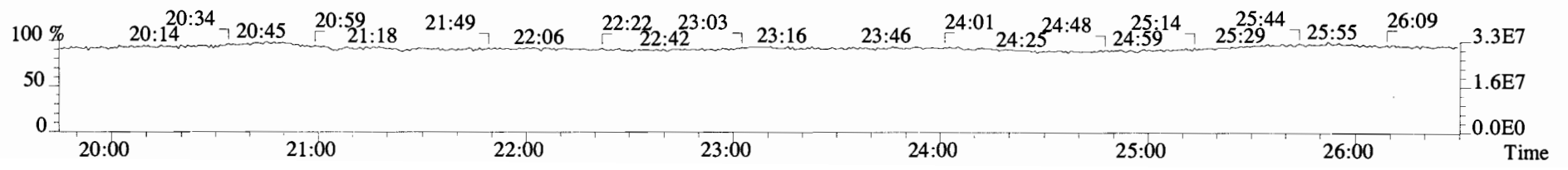
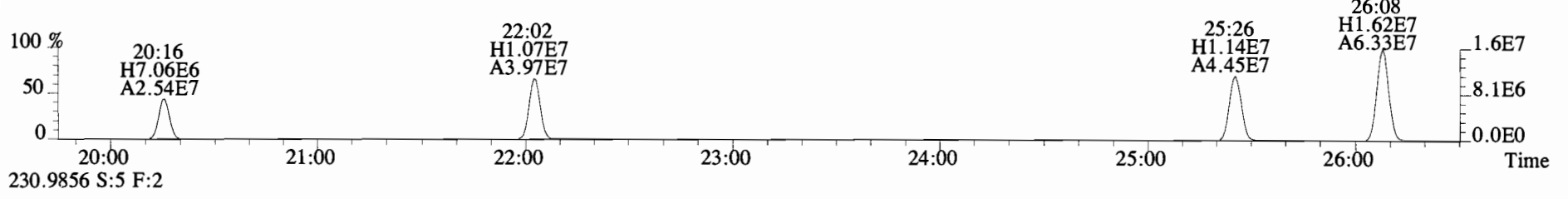
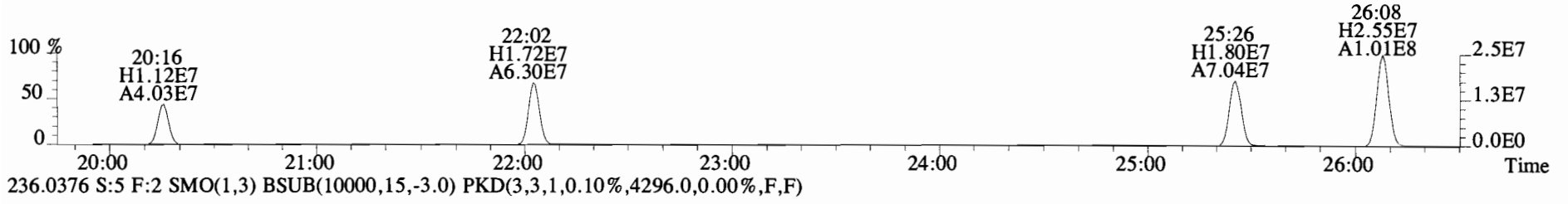
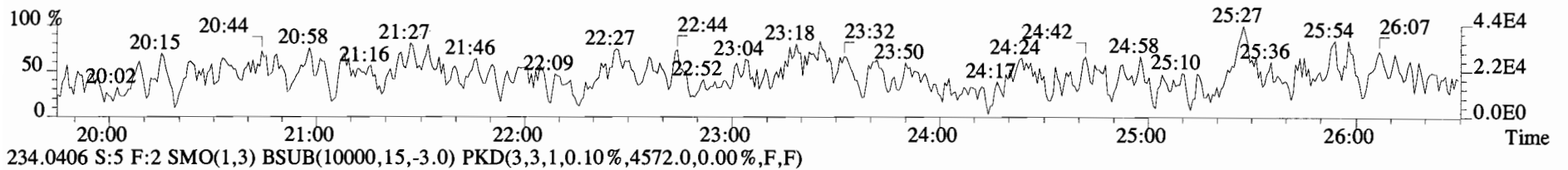
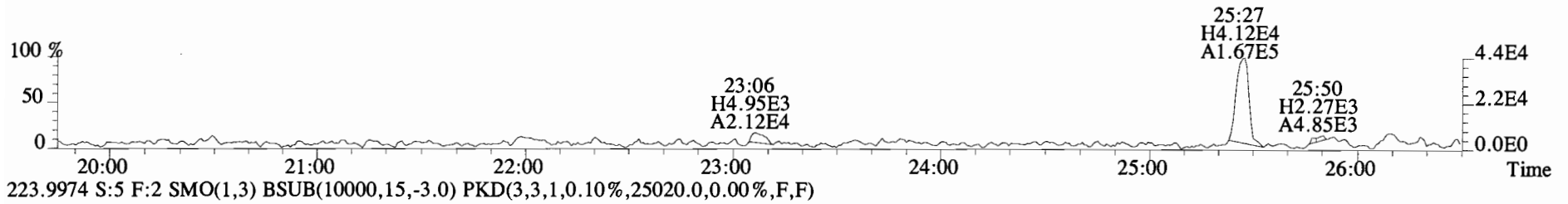
202.0766 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,51568.0,0.00%,F,F)



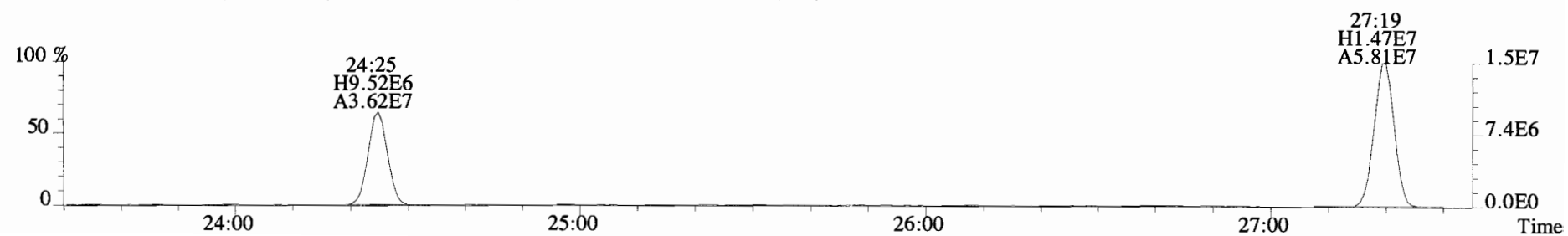
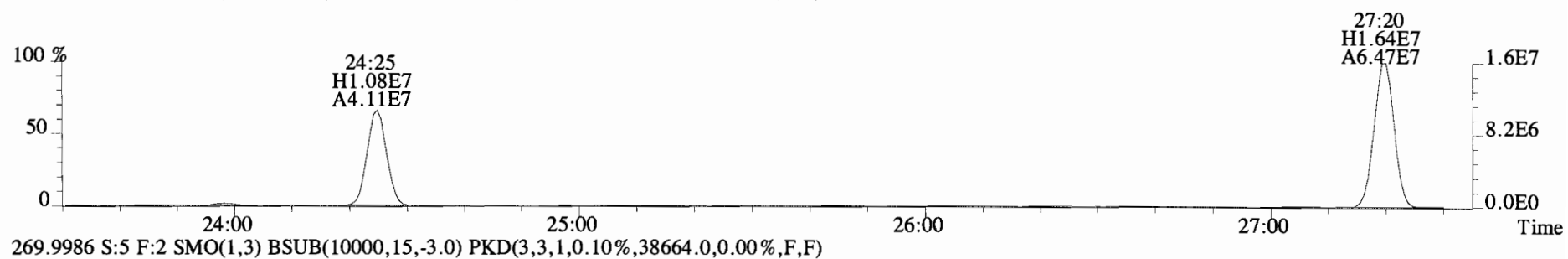
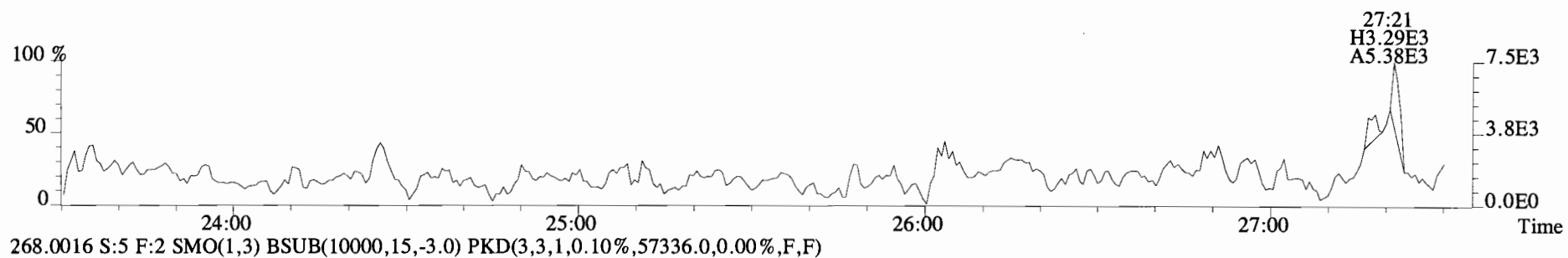
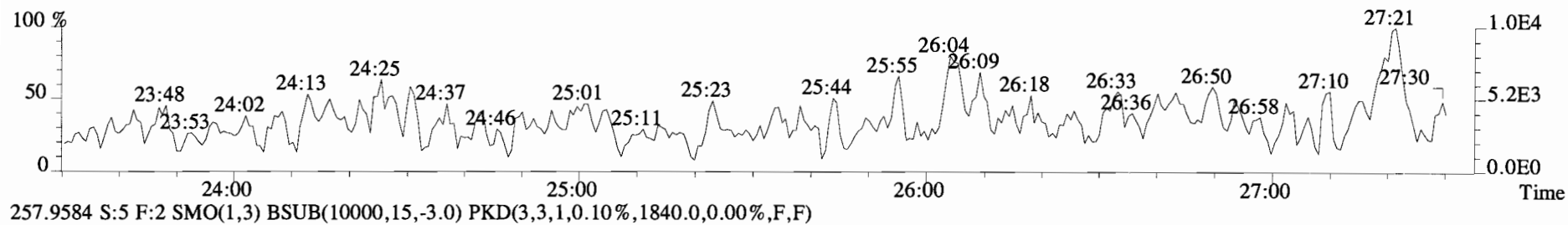
180.9880 S:5



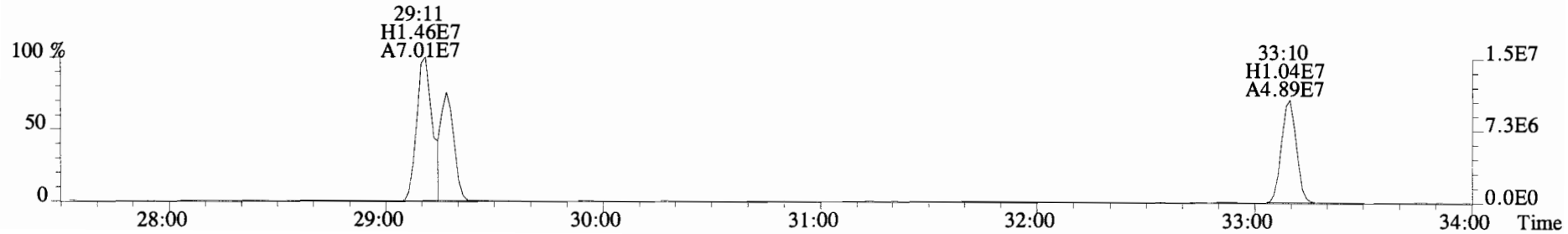
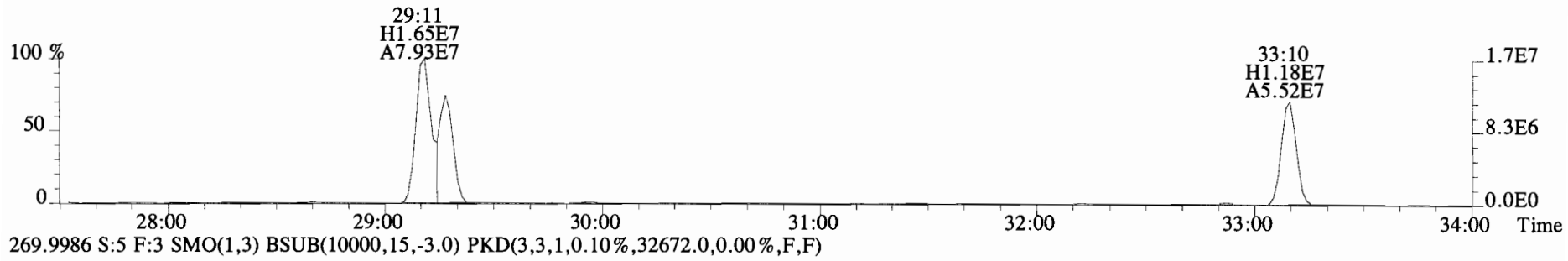
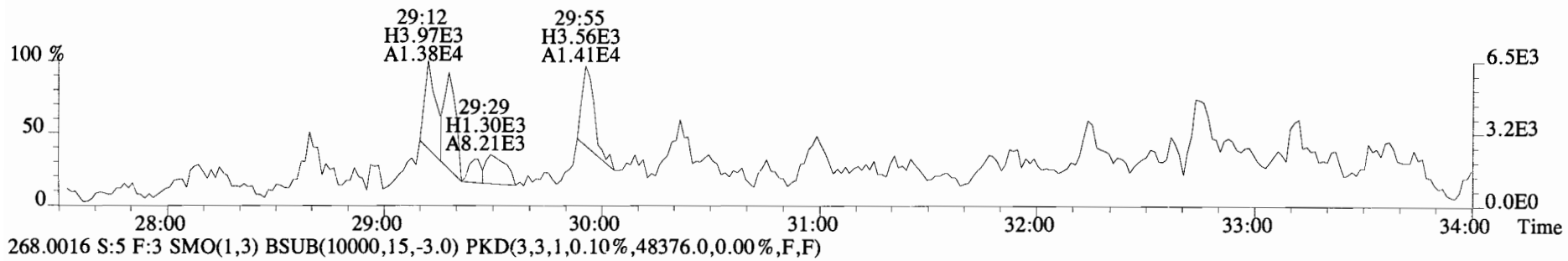
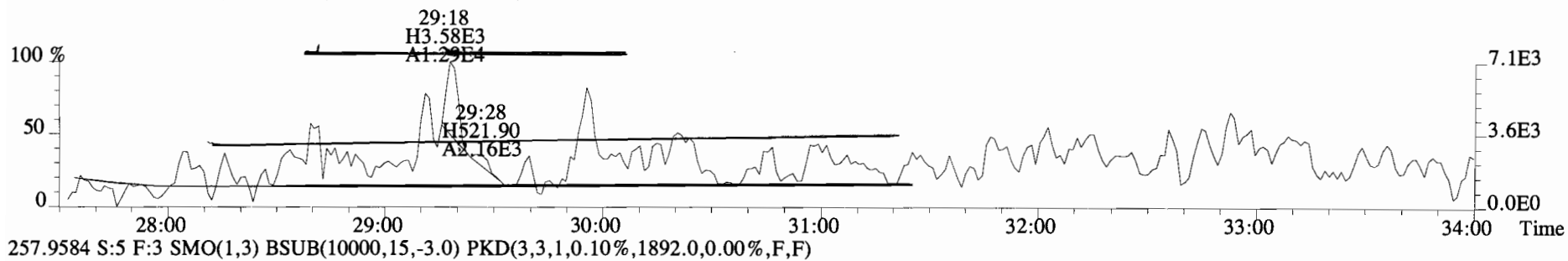
File:140919E2 #1-757 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3280.0,0.00%,F,F)



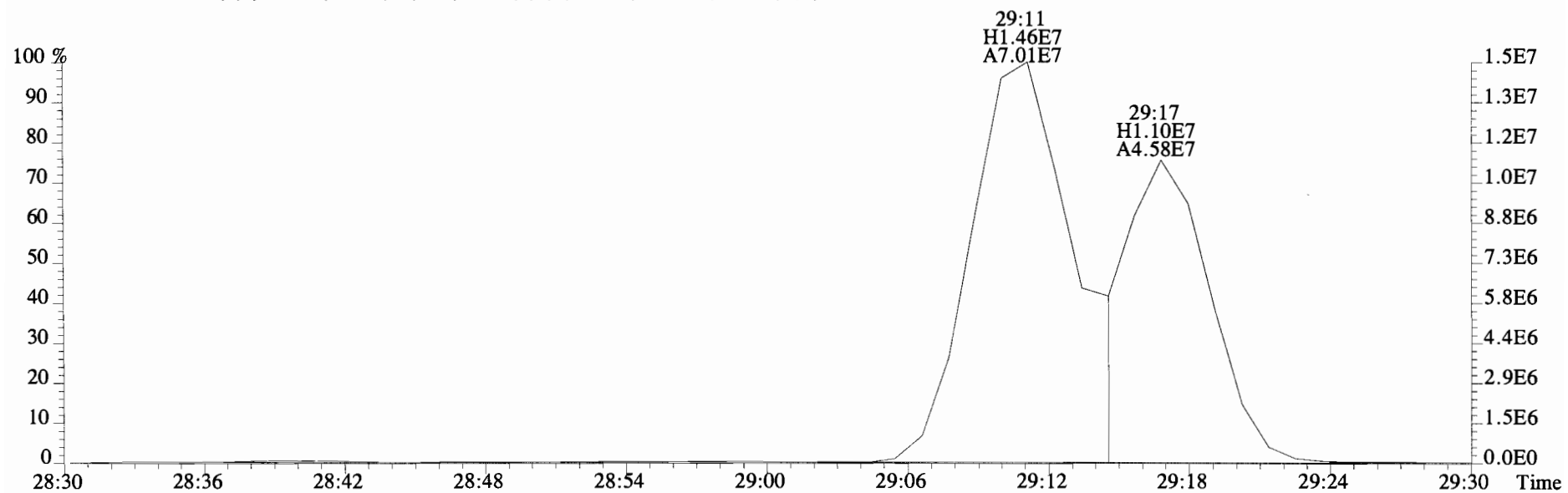
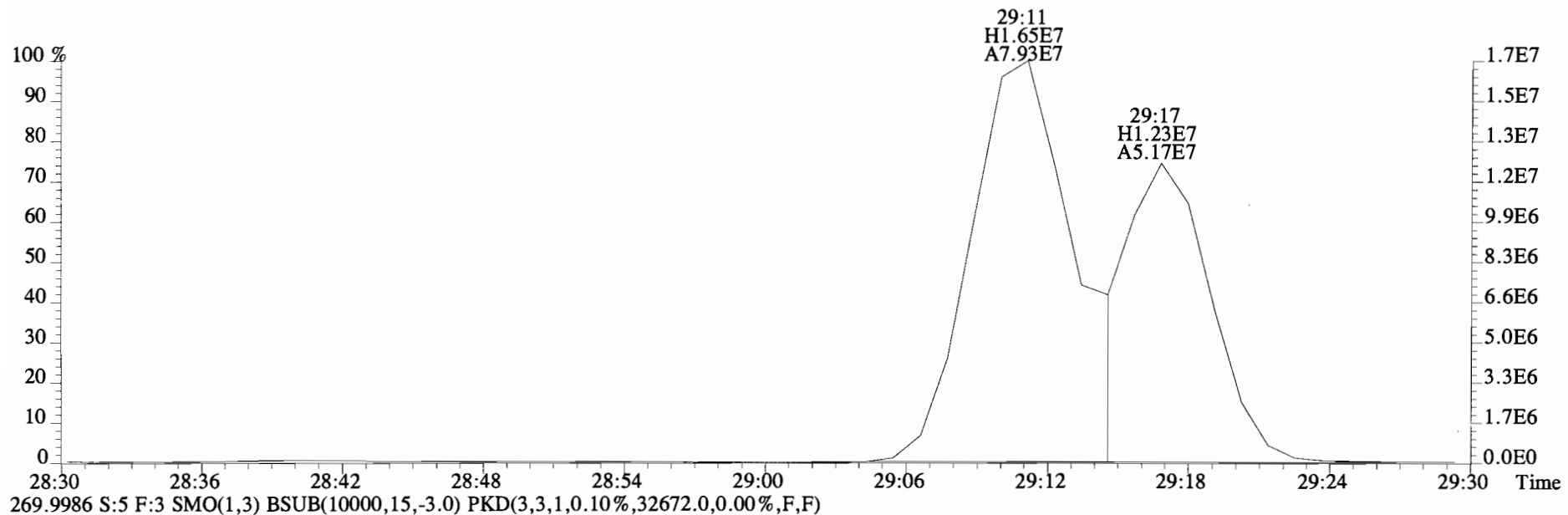
File:140919E2 #1-757 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4344.0,0.00%,F,F)



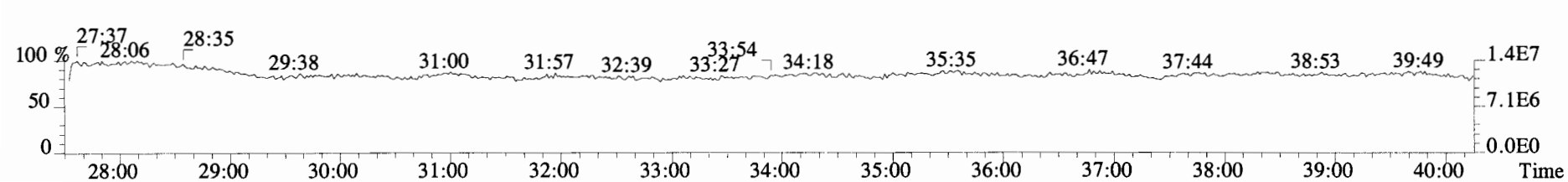
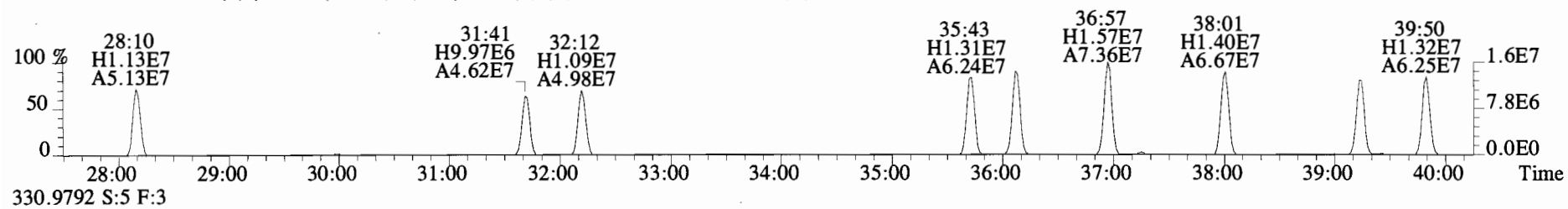
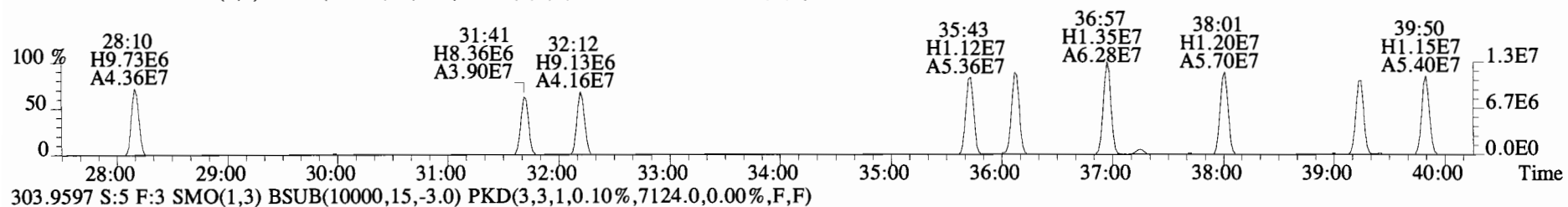
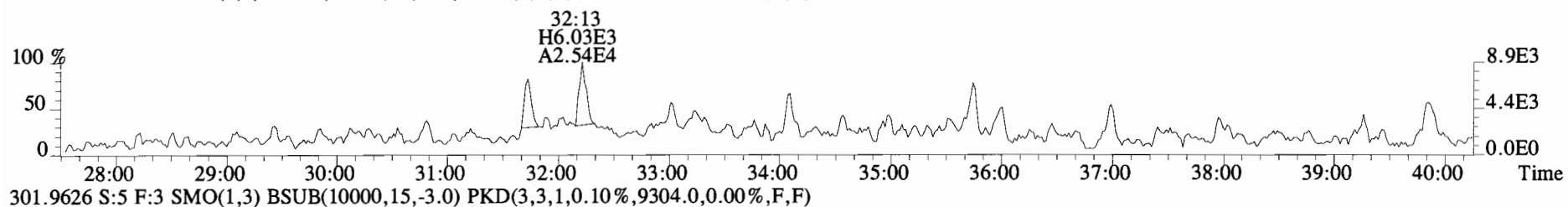
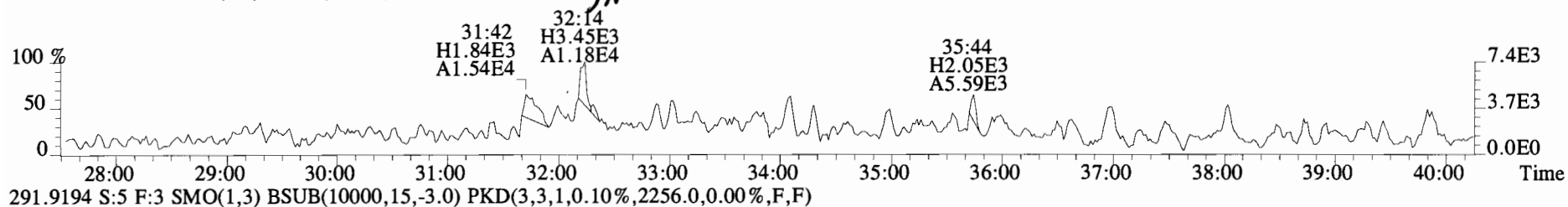
File:140919E2 #1-770 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2580.0,0.00%,F,F)



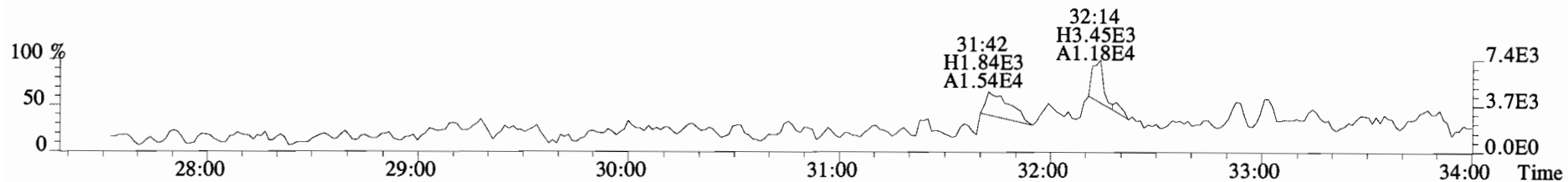
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48376.0,0.00%,F,F)



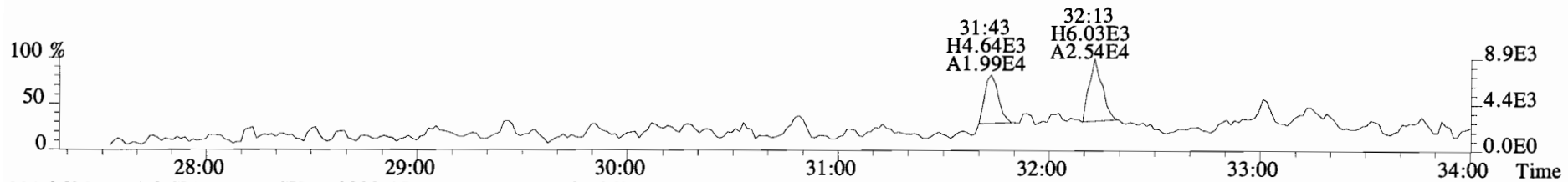
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-PLK1 Method Blank Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.00%,2140.0,0.00%,F,F)



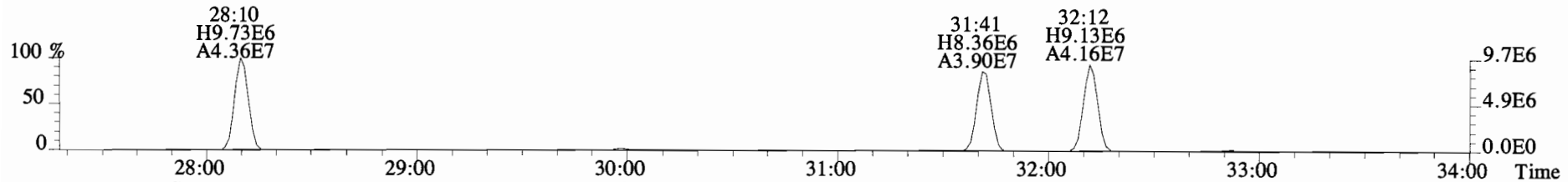
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



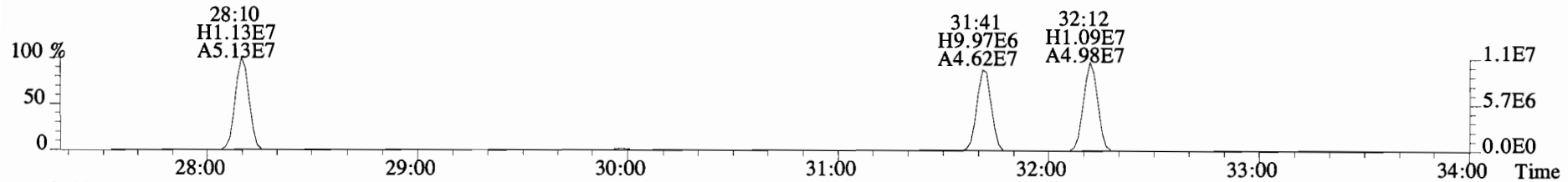
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



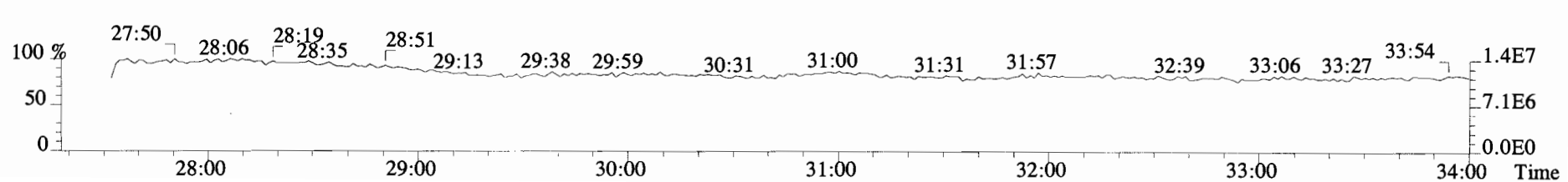
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9304.0,0.00%,F,F)



303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7124.0,0.00%,F,F)

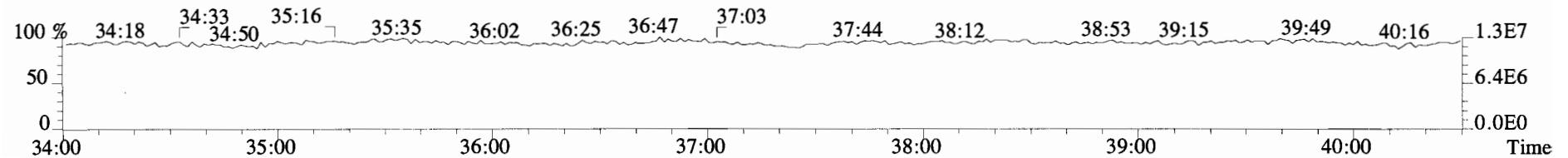
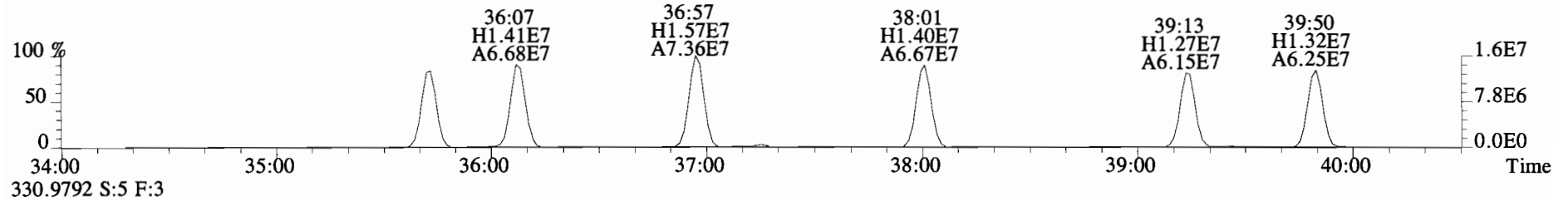
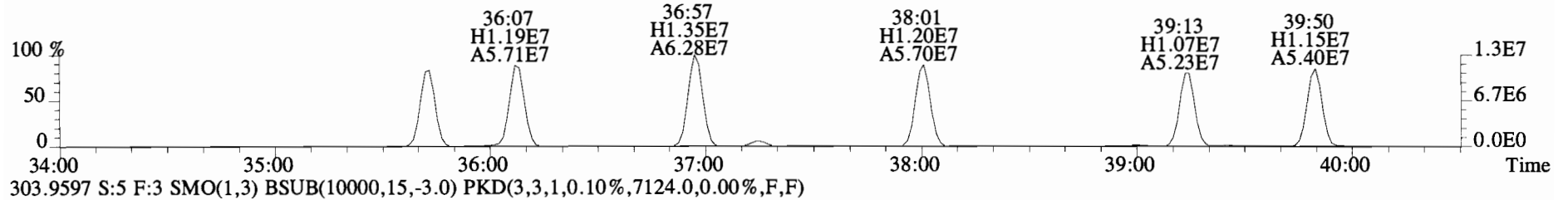
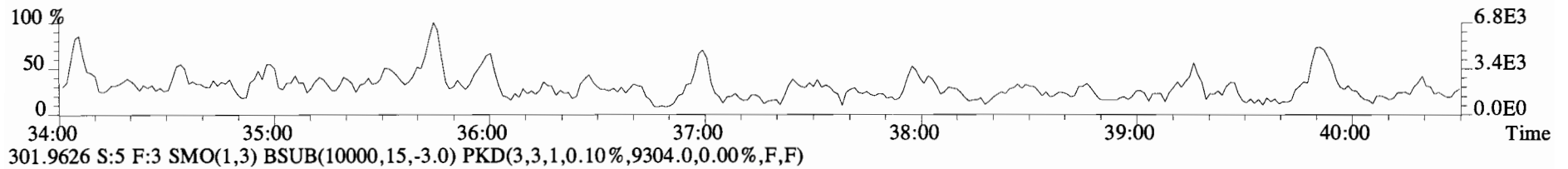
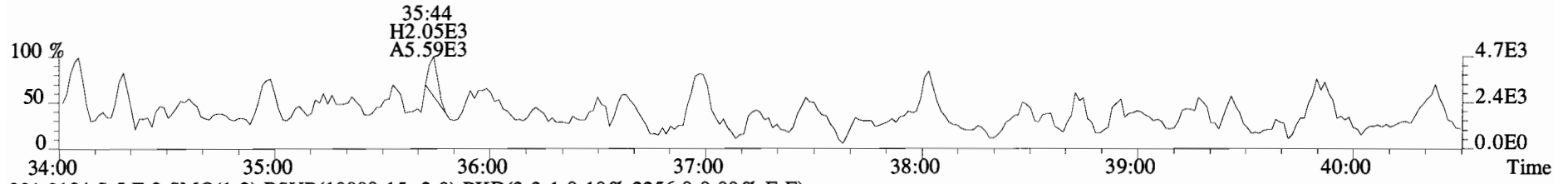


330.9792 S:5 F:3

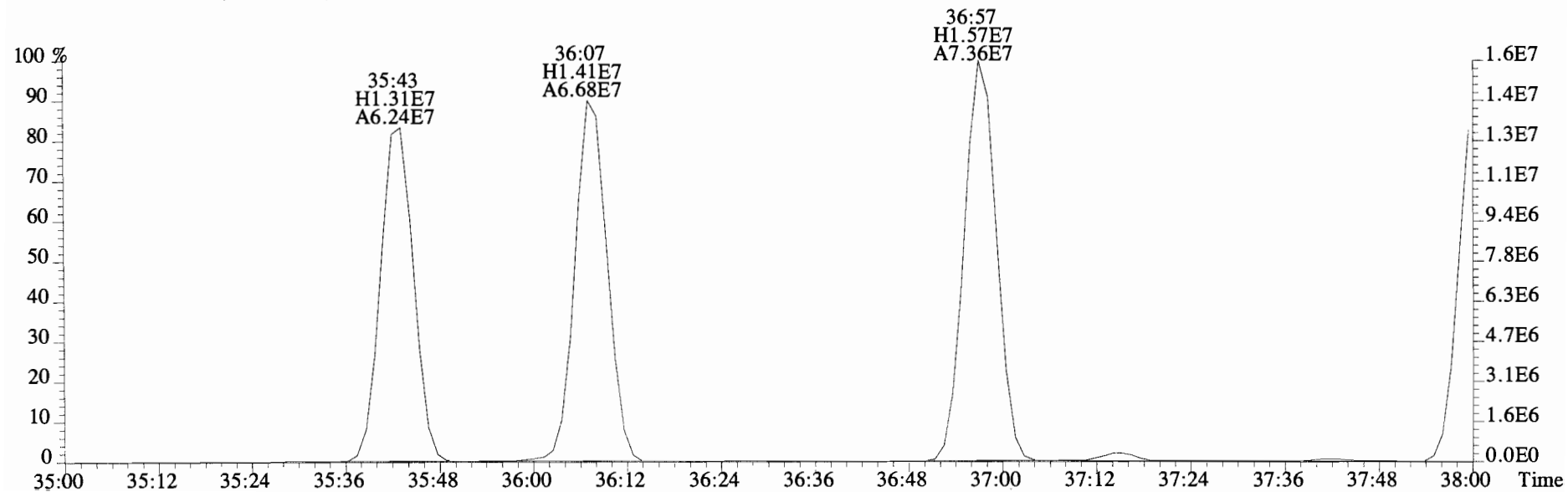
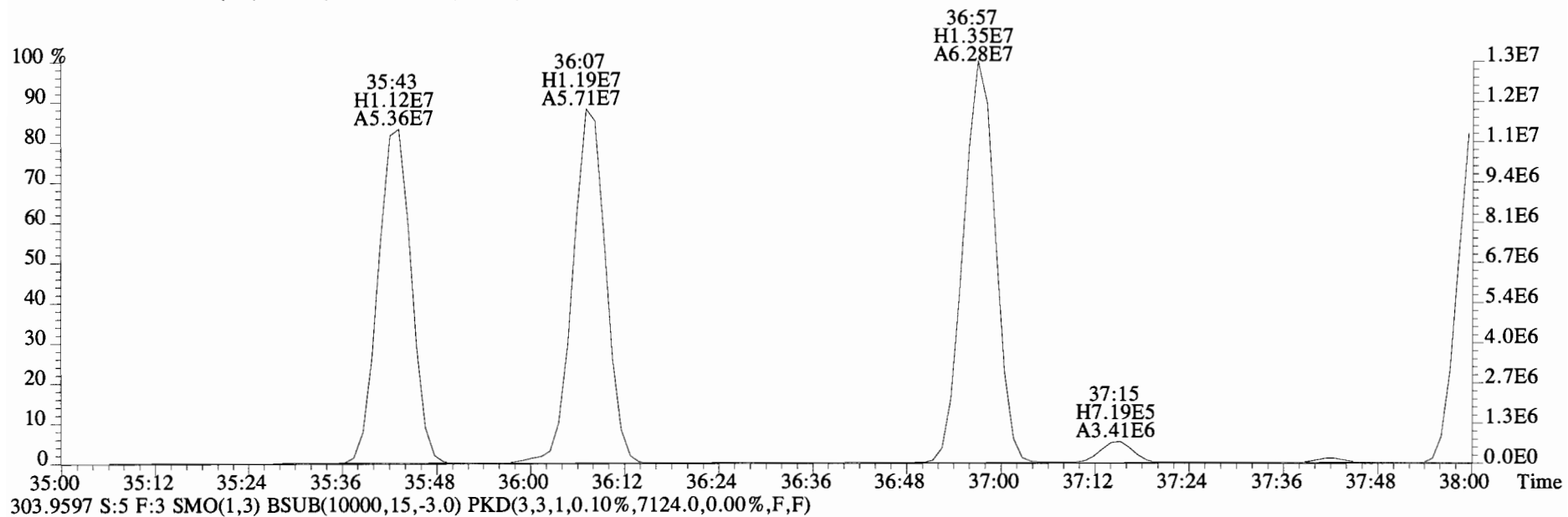




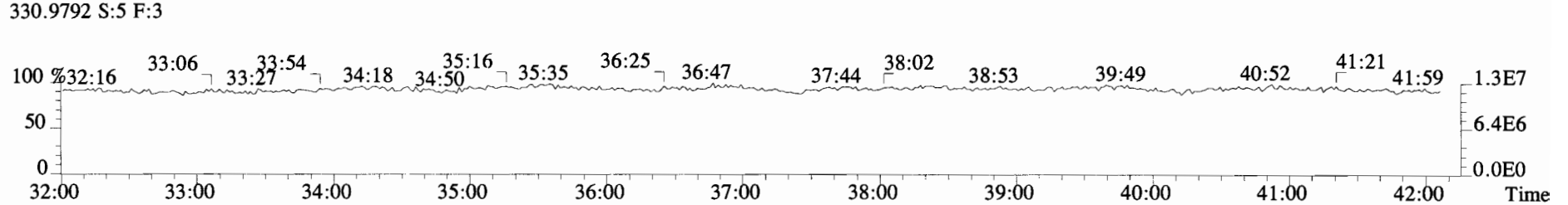
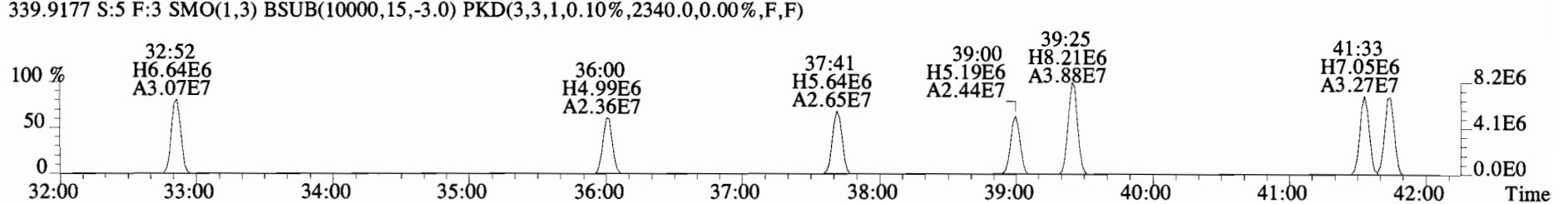
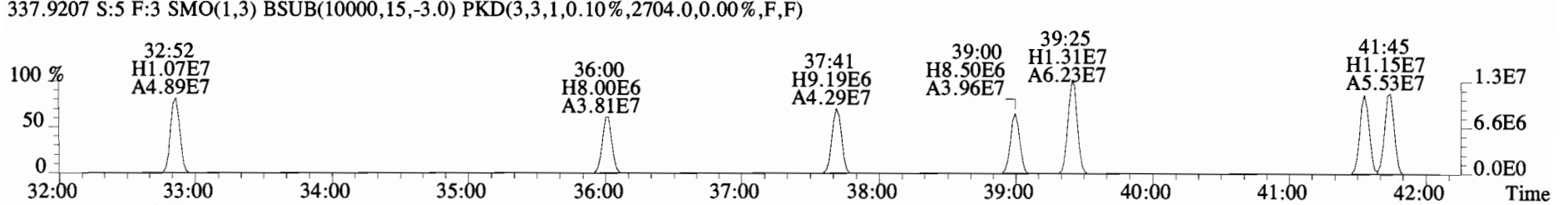
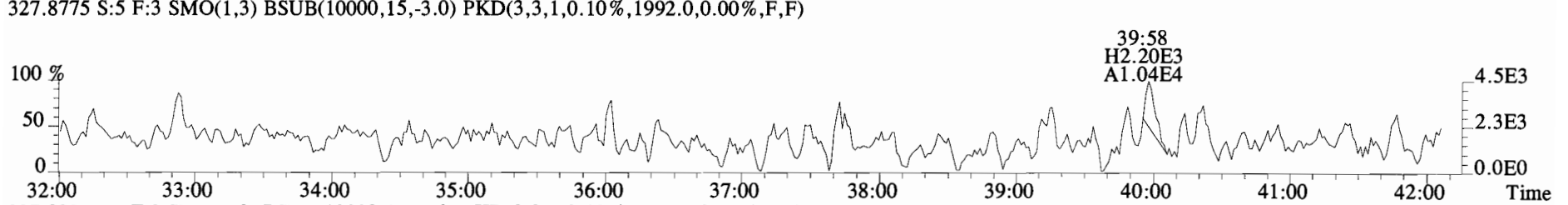
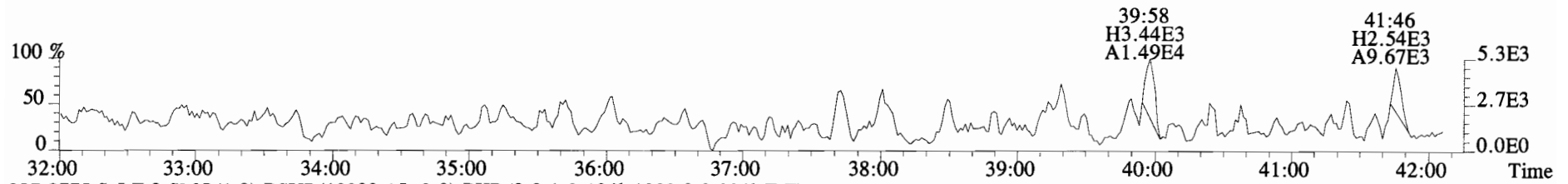
File:140919E2 #1-770 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



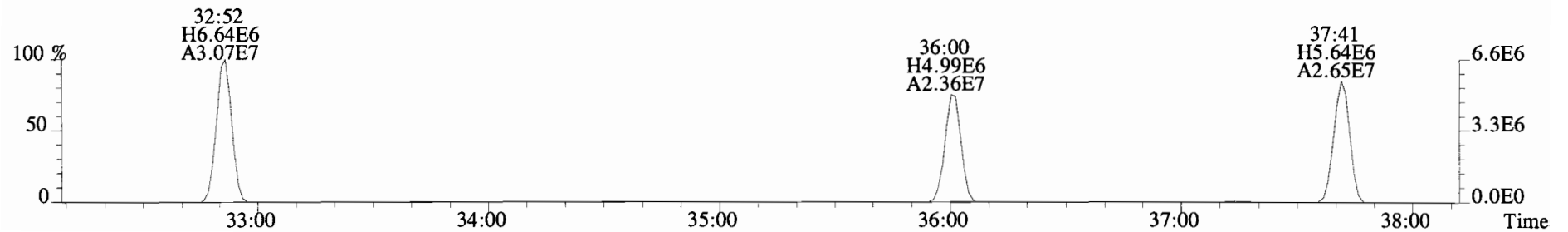
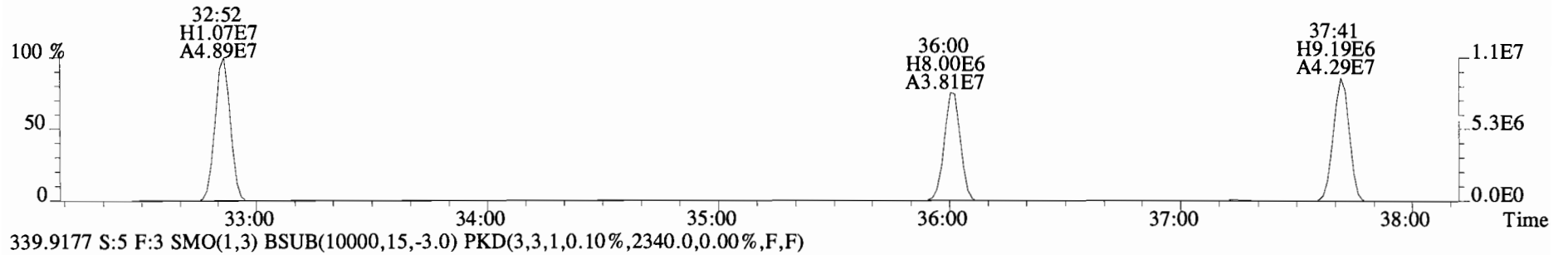
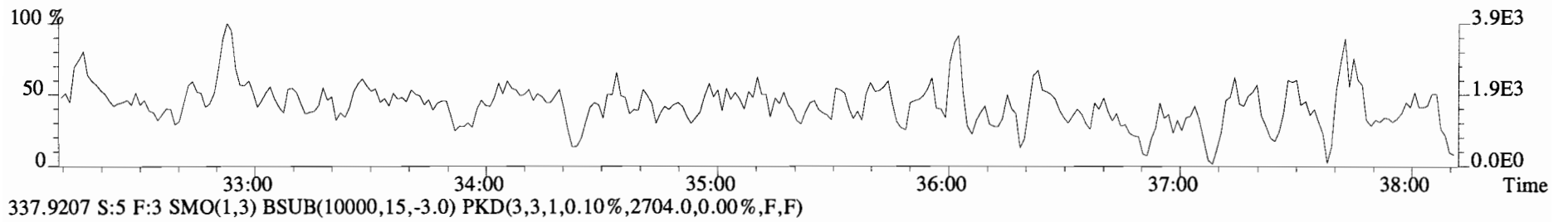
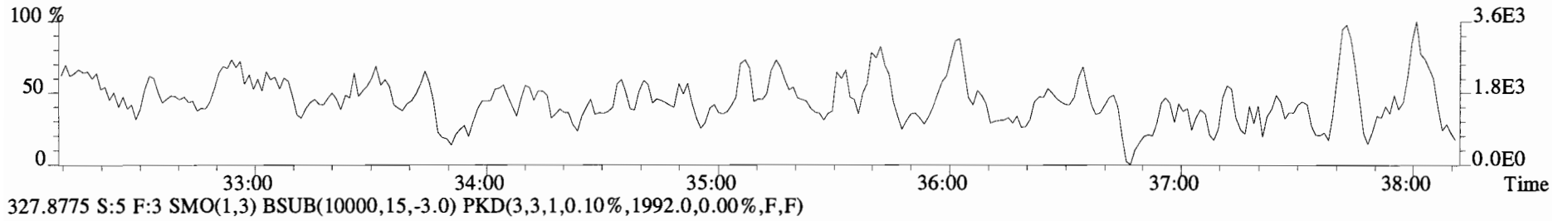
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9304.0,0.00%,F,F)



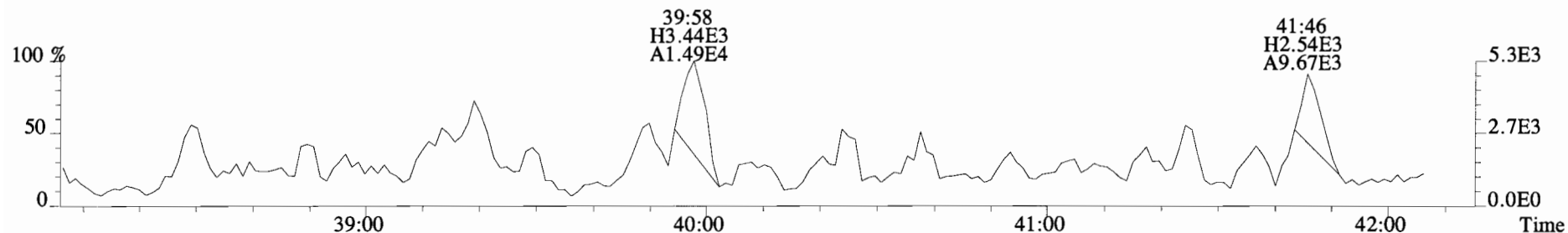
File:140919E2 #1-770 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



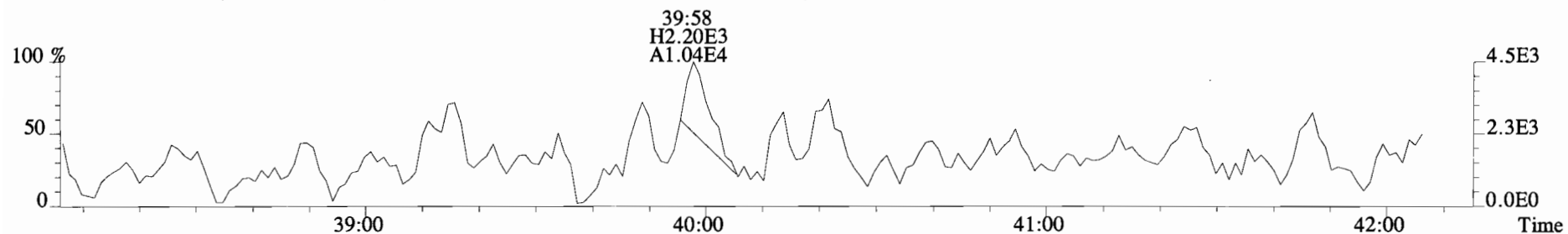
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



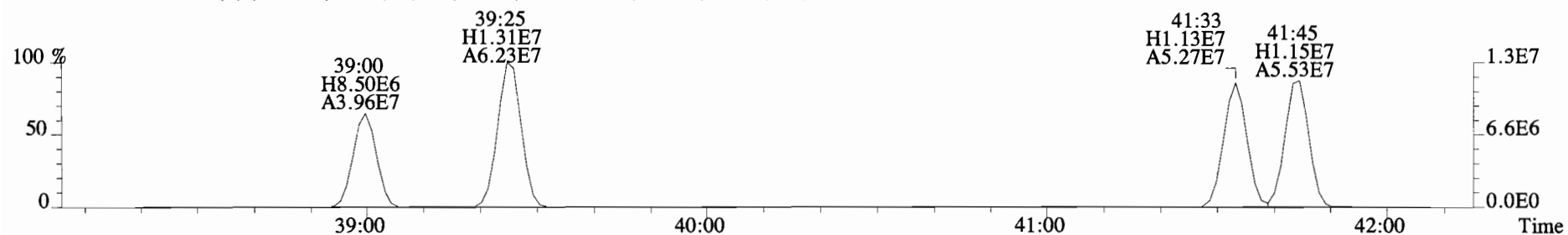
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



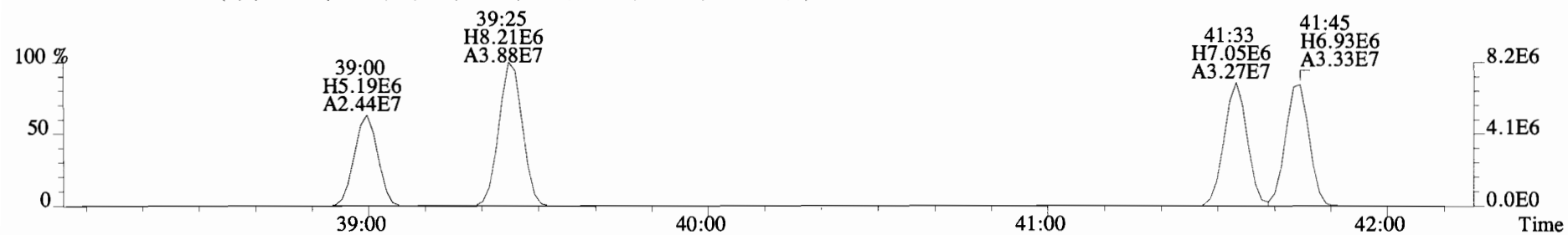
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)



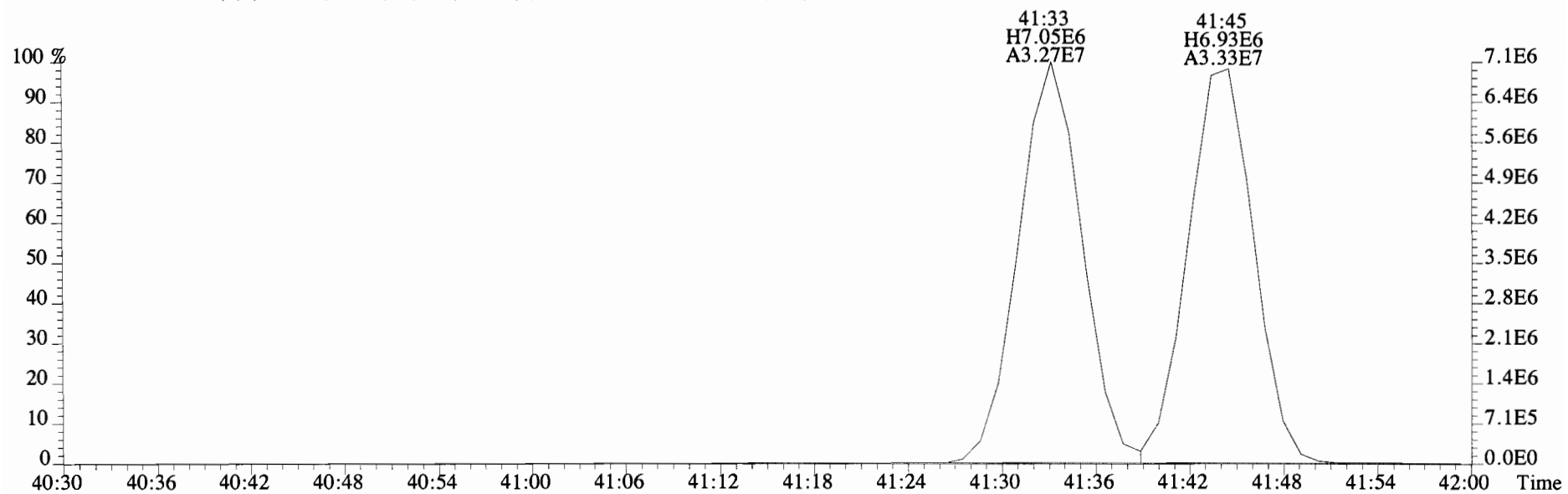
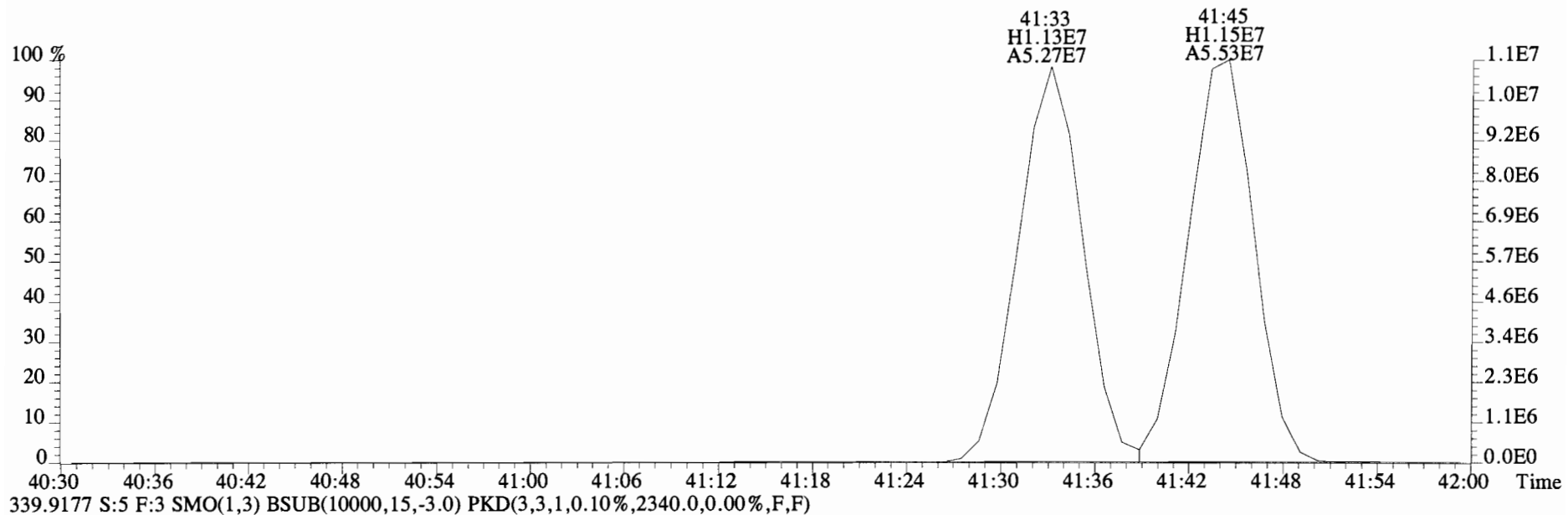
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2704.0,0.00%,F,F)



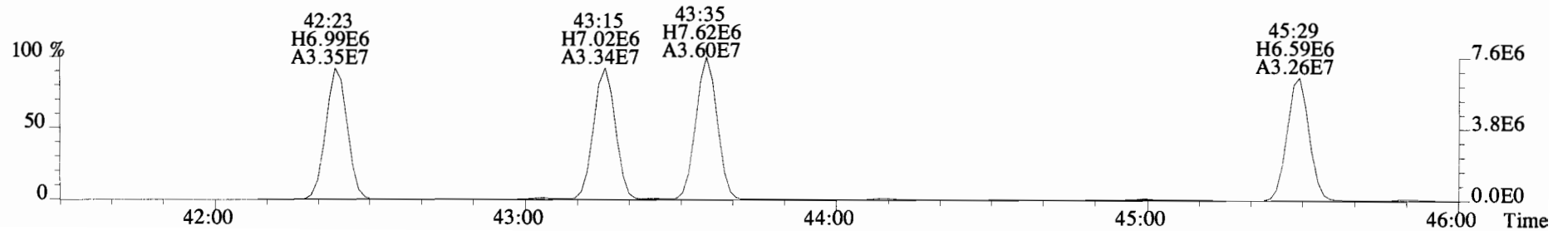
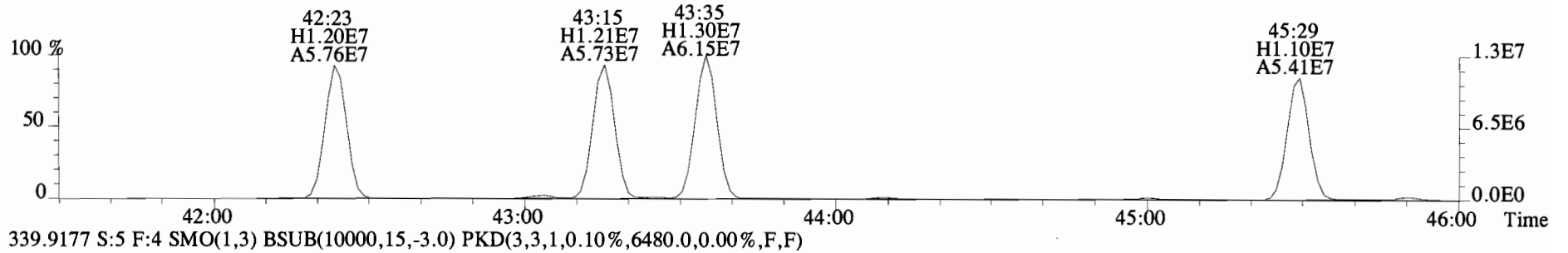
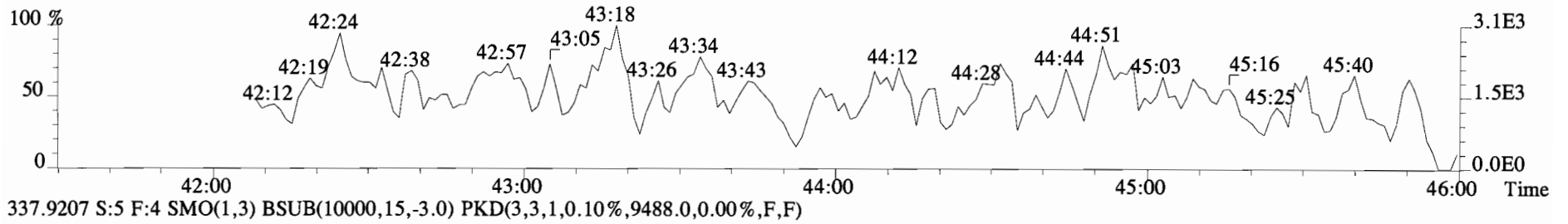
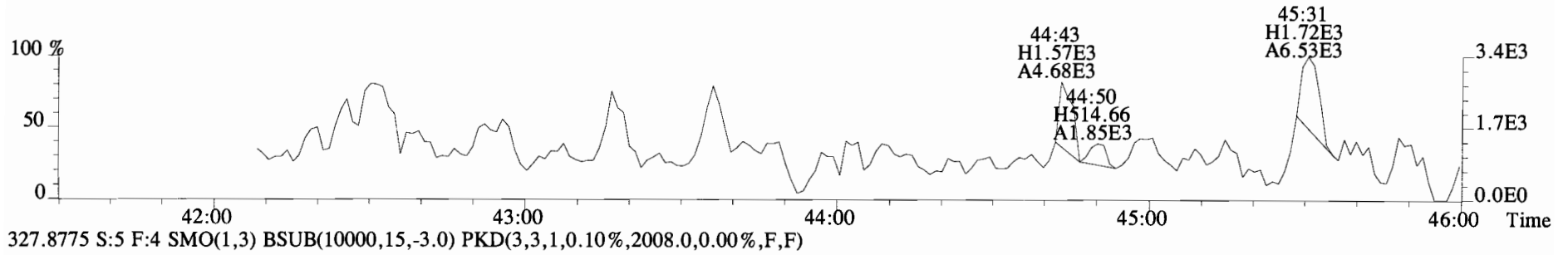
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2340.0,0.00%,F,F)



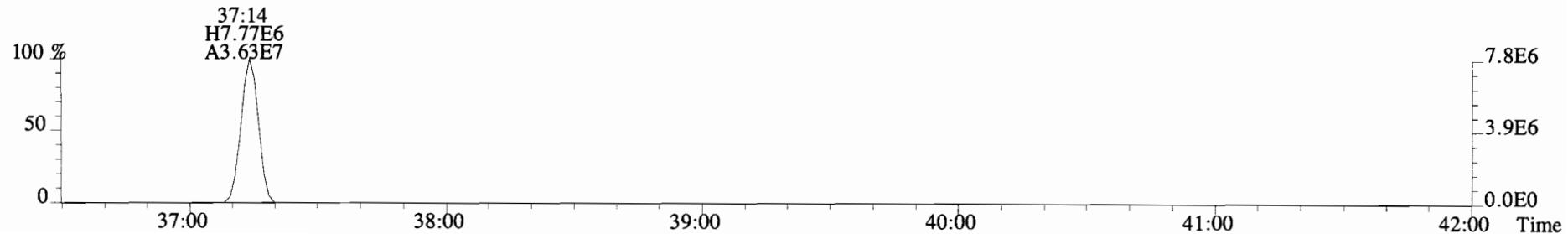
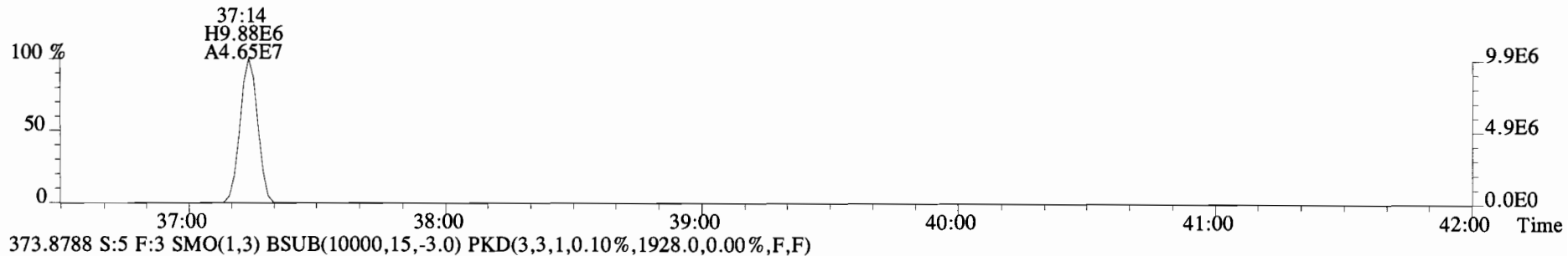
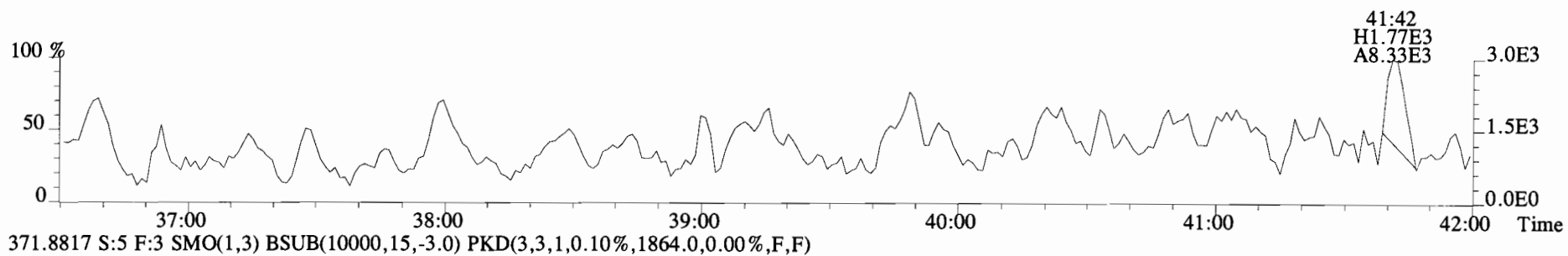
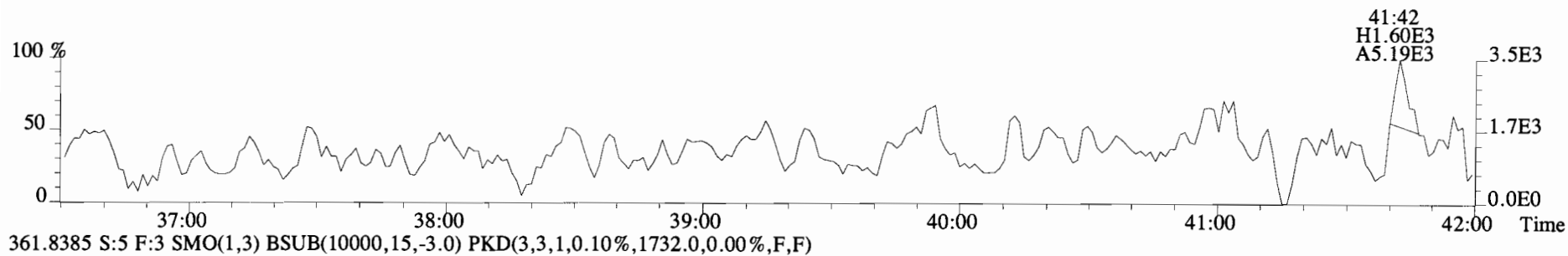
File:140919E2 #1-770 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2704.0,0.00%,F,F)



File:140919E2 #1-543 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1400.0,0.00%,F,F)

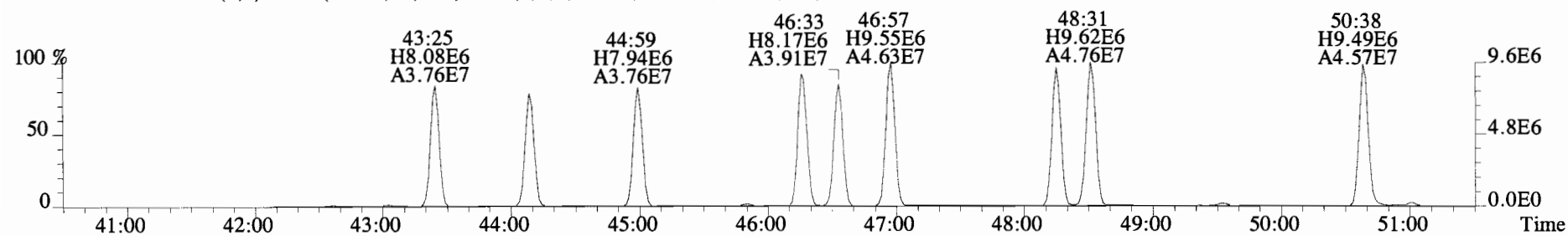
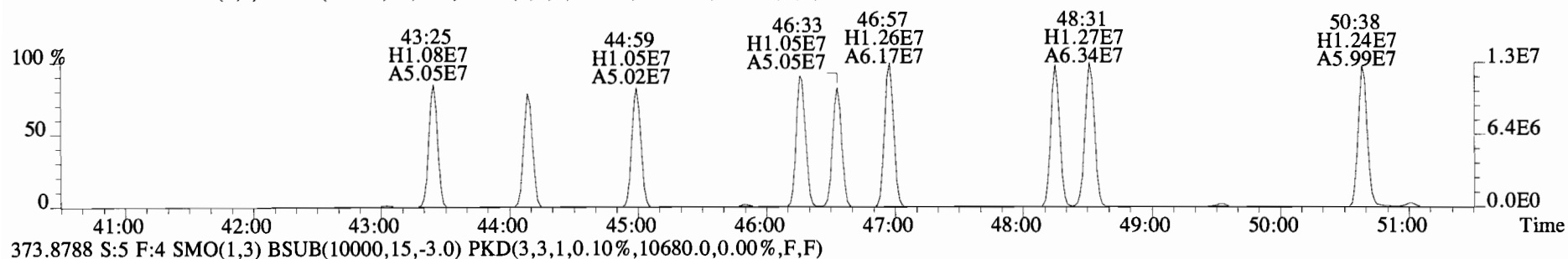
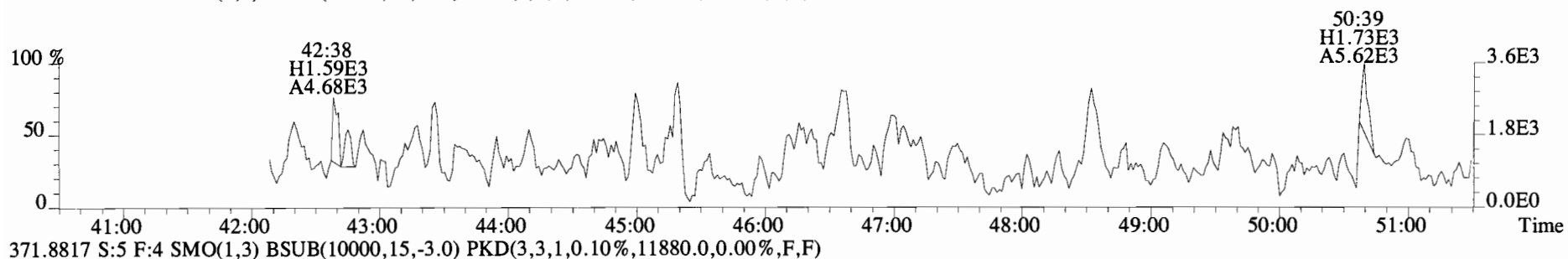
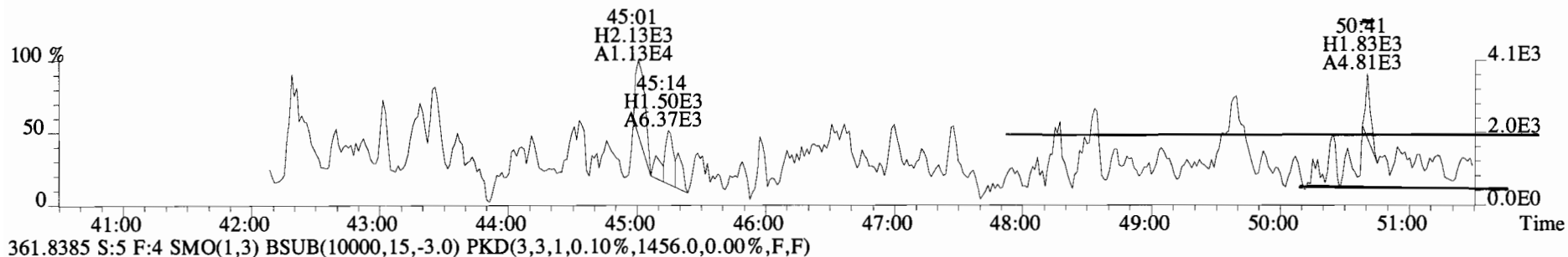


File:140919E2 #1-770 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B410032-BLK1 Method Blank Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)

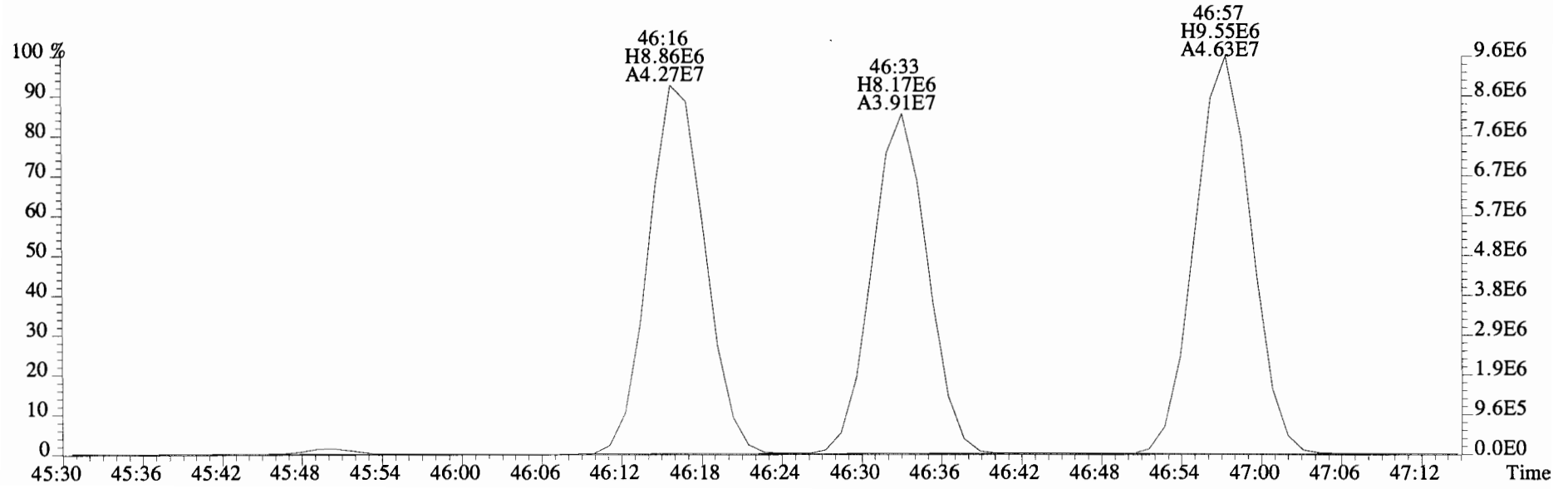
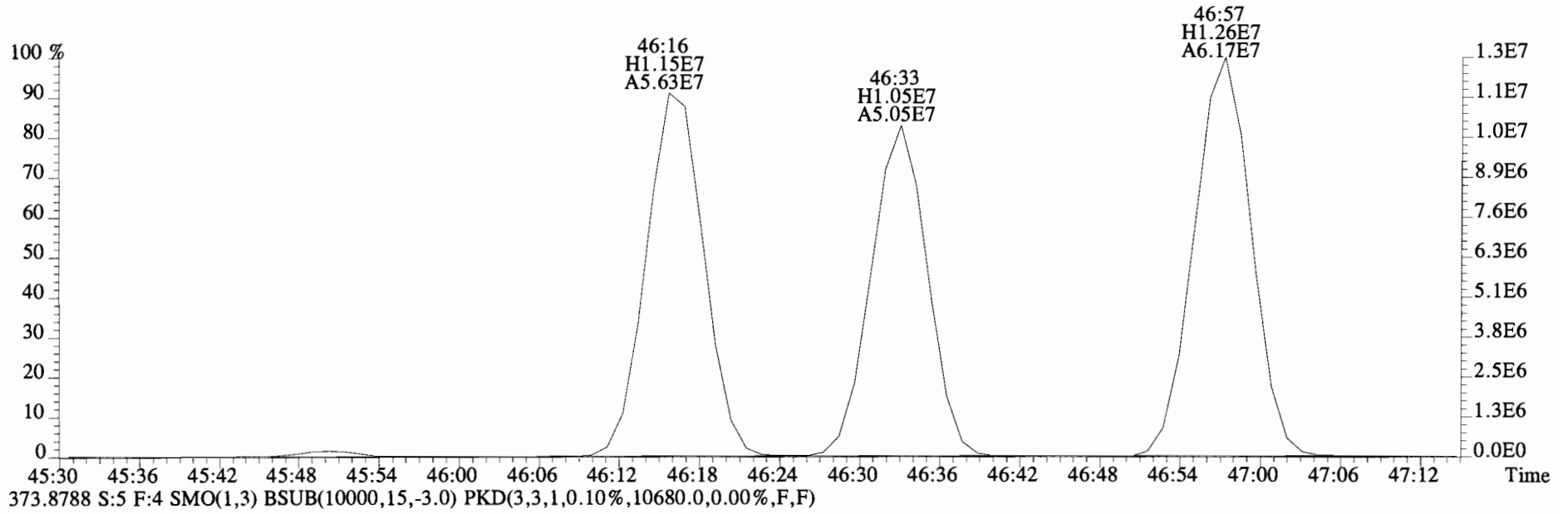




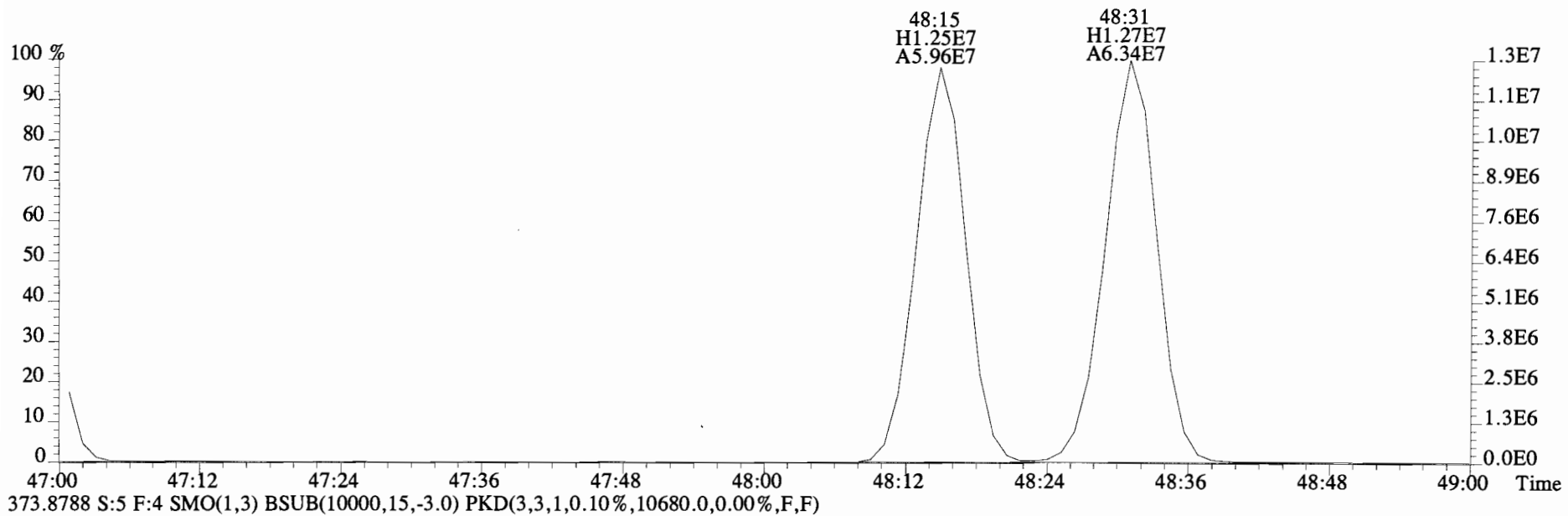
File:140919E2 #1-543 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



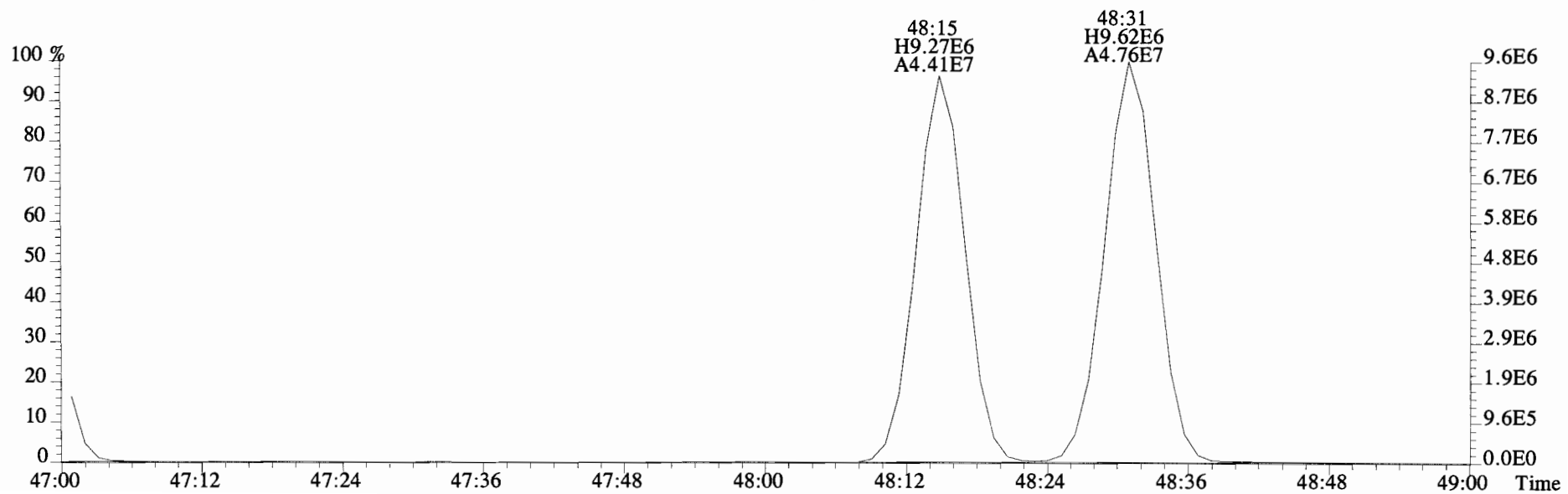
File:140919E2 #1-543 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11880.0,0.00%,F,F)



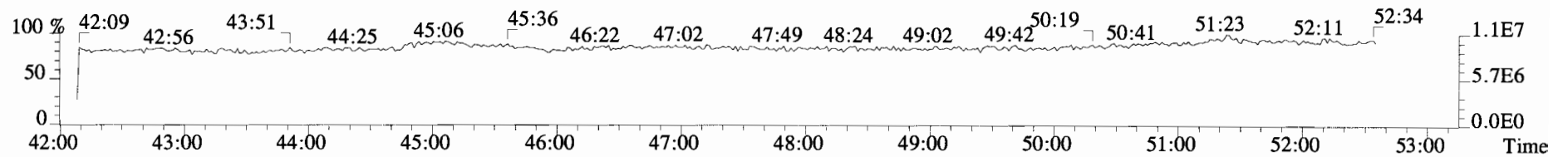
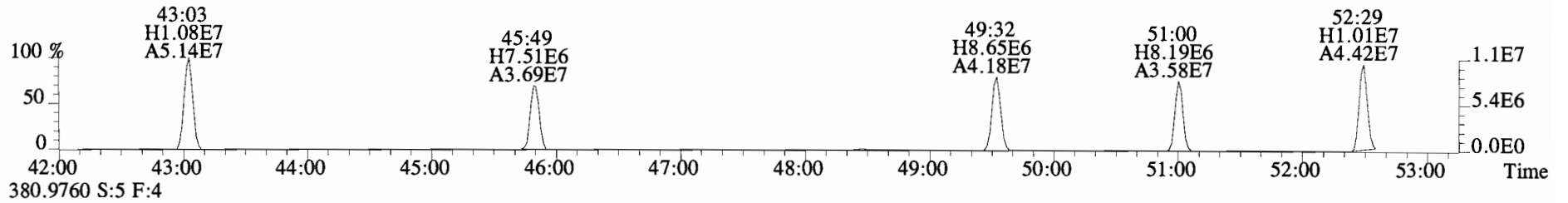
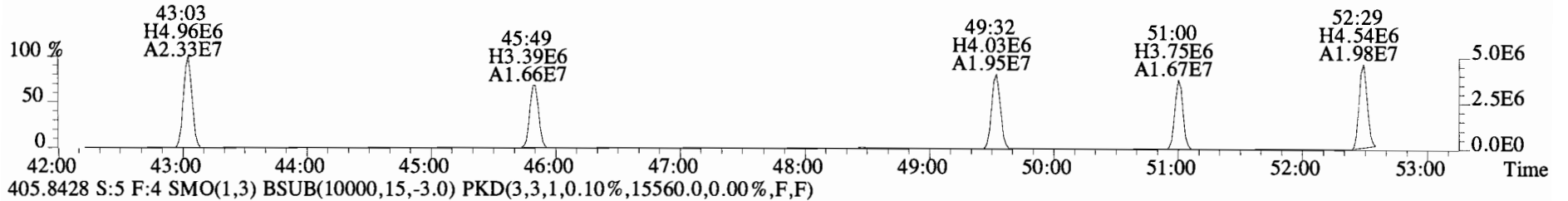
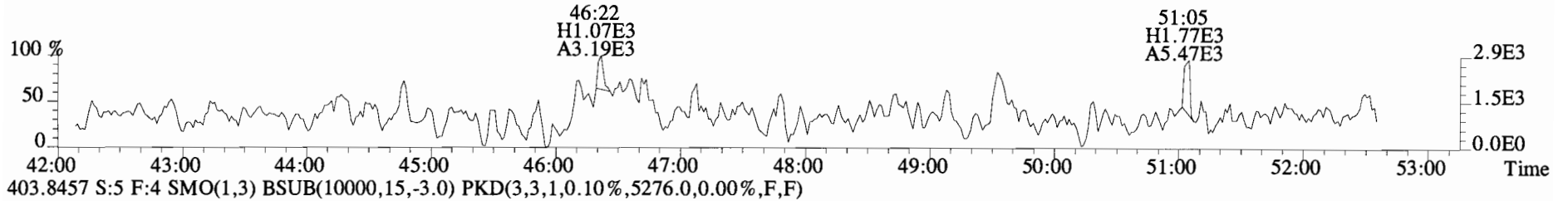
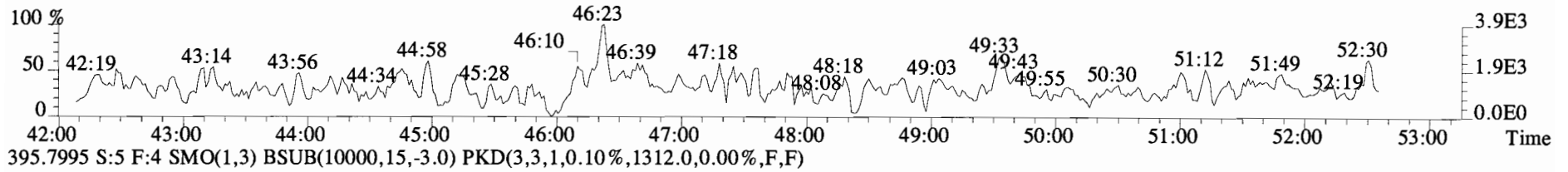
File:140919E2 #1-543 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11880.0,0.00%,F,F)



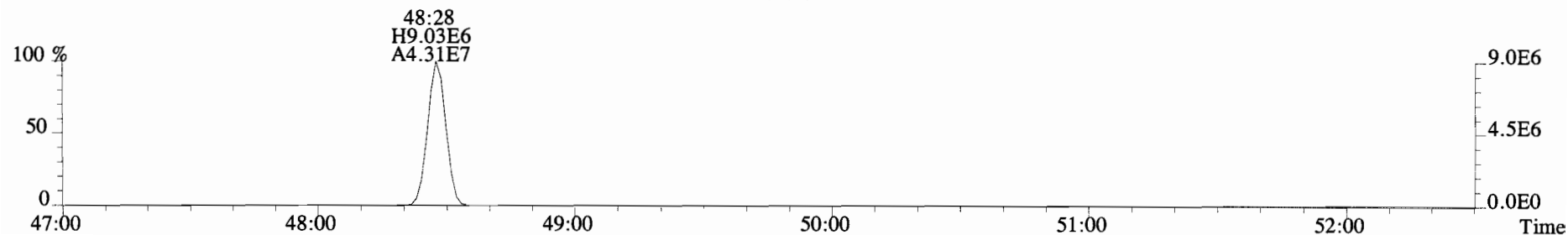
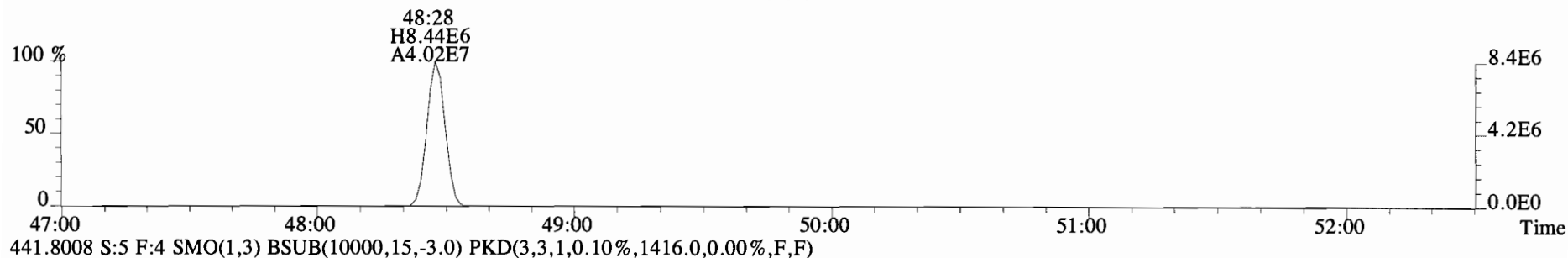
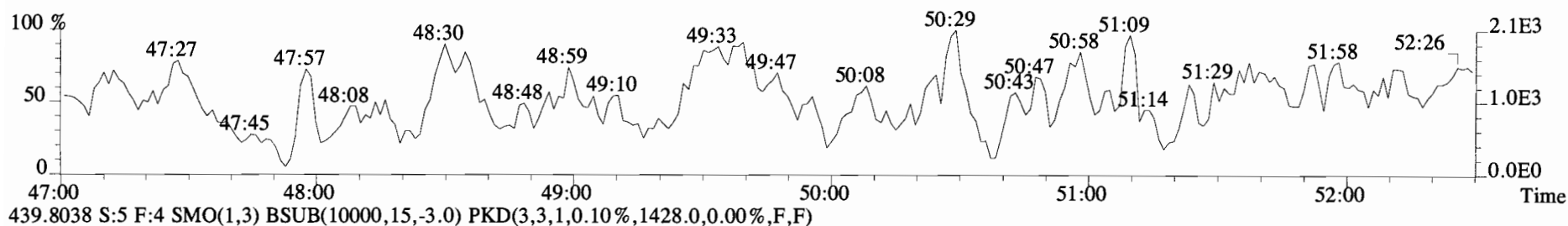
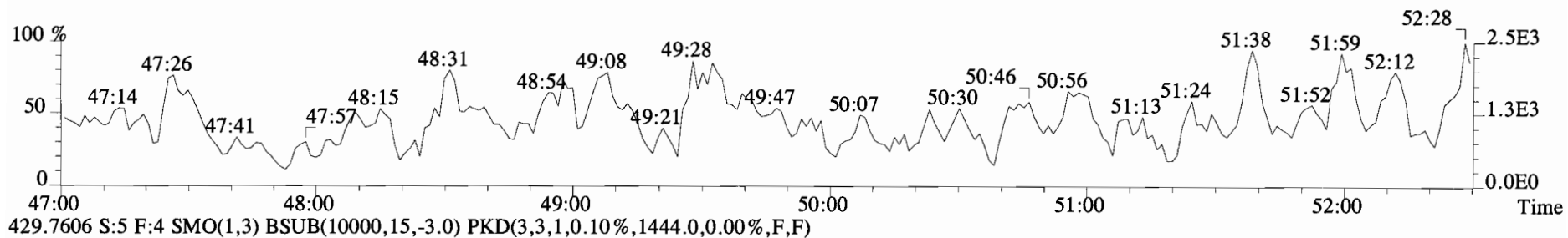
373.8788 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10680.0,0.00%,F,F)



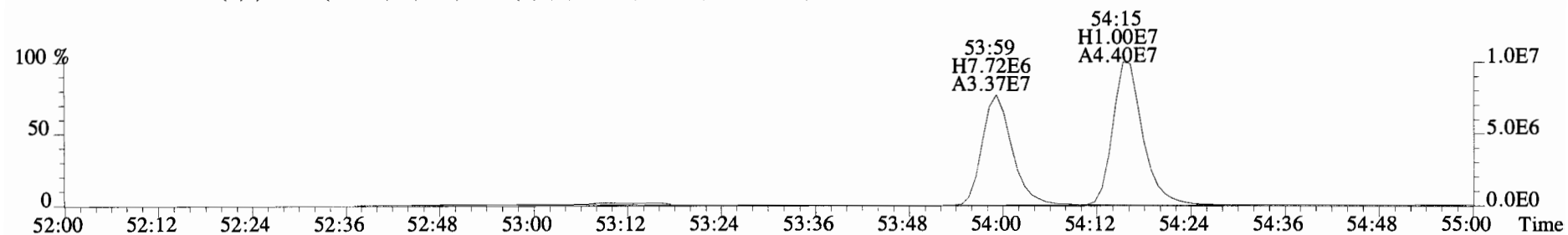
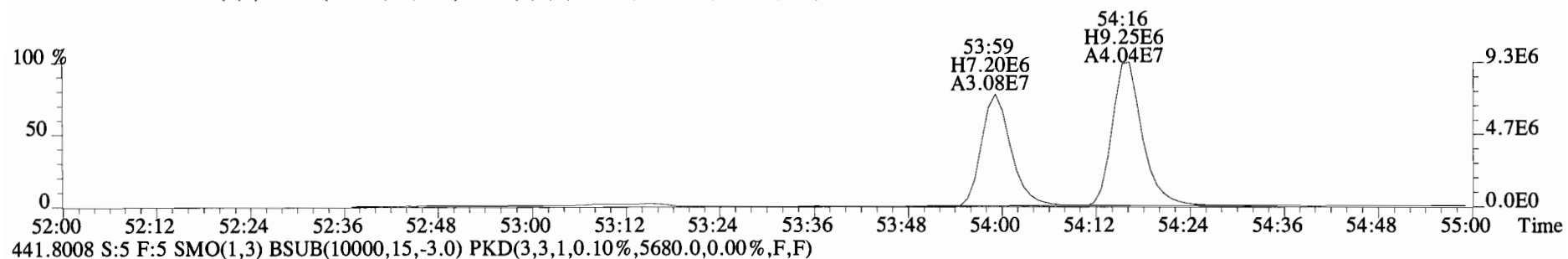
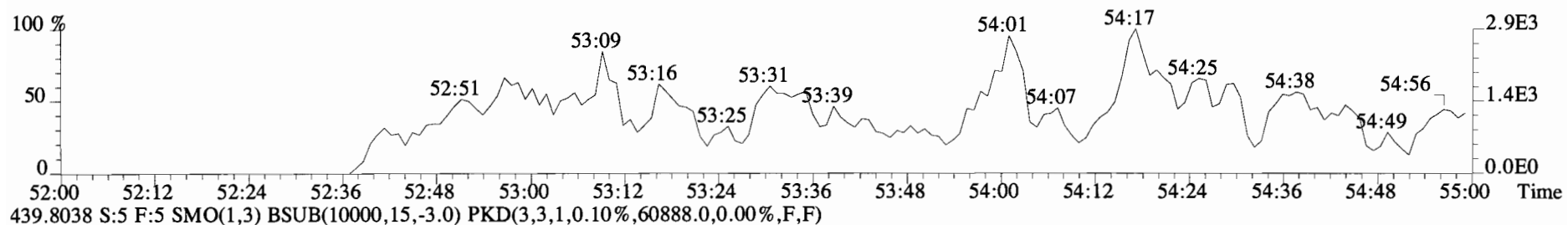
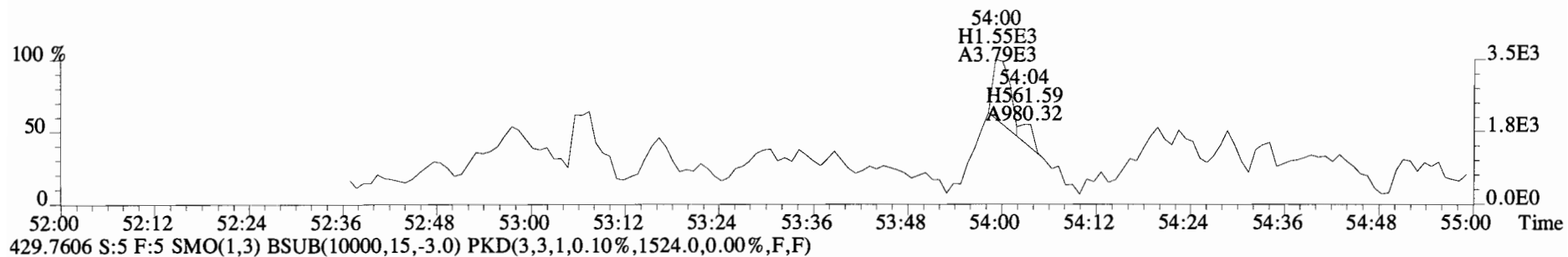
File:140919E2 #1-543 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1536.0,0.00%,F,F)



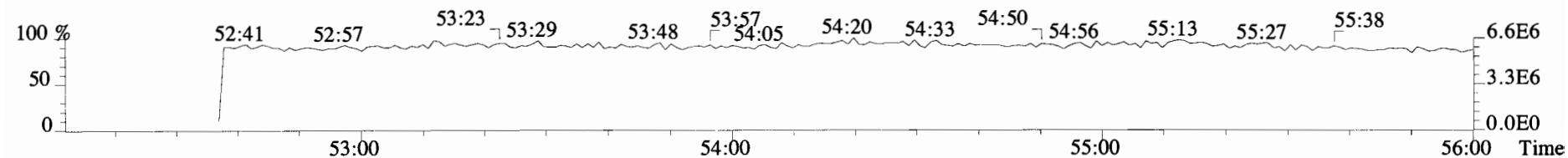
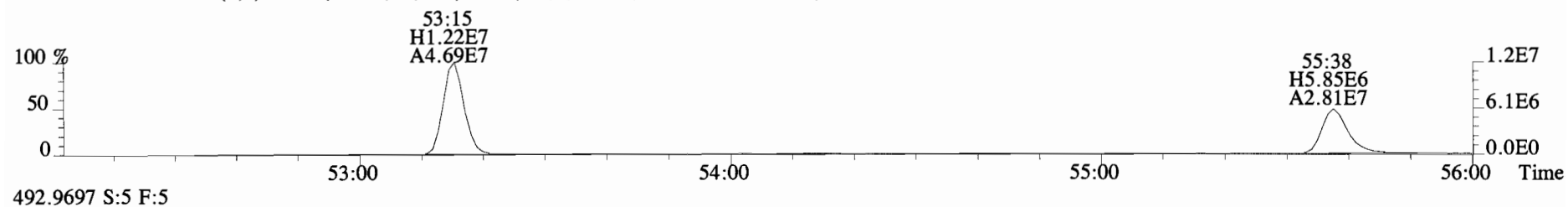
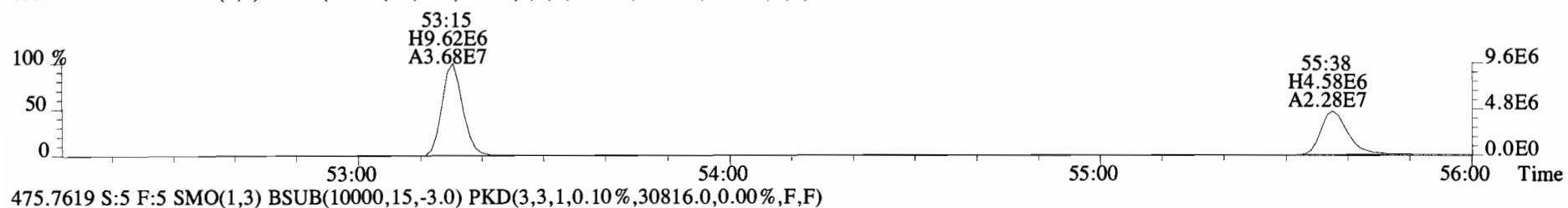
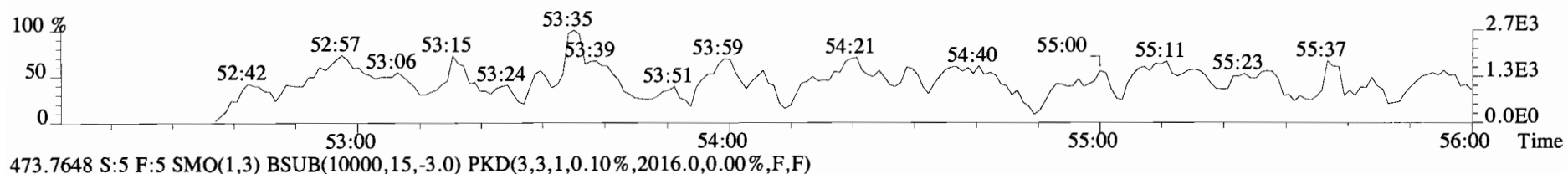
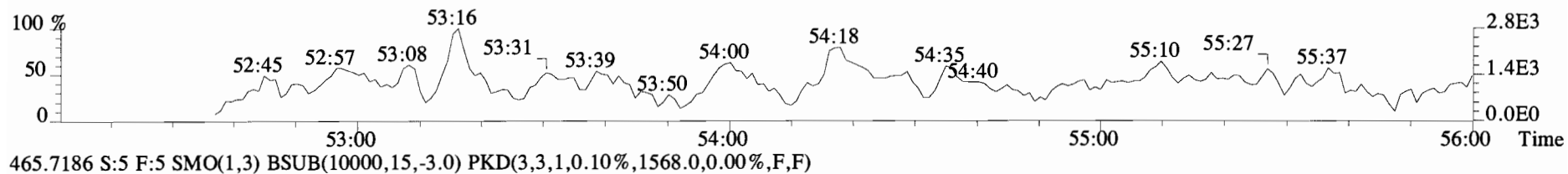
File:140919E2 #1-543 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)



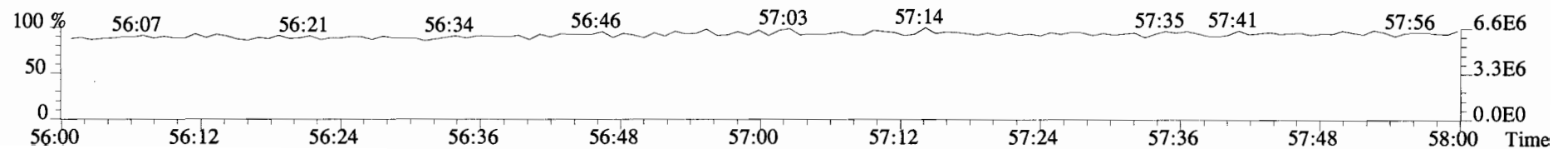
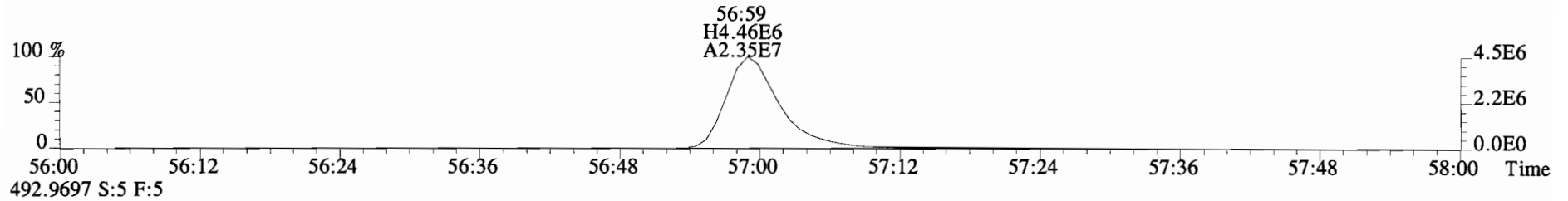
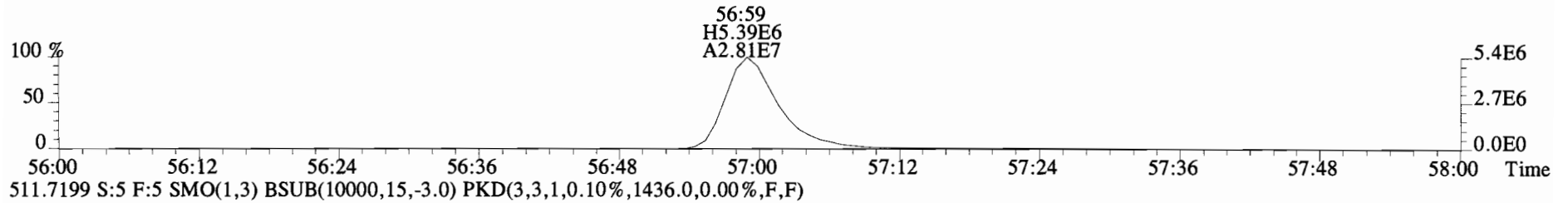
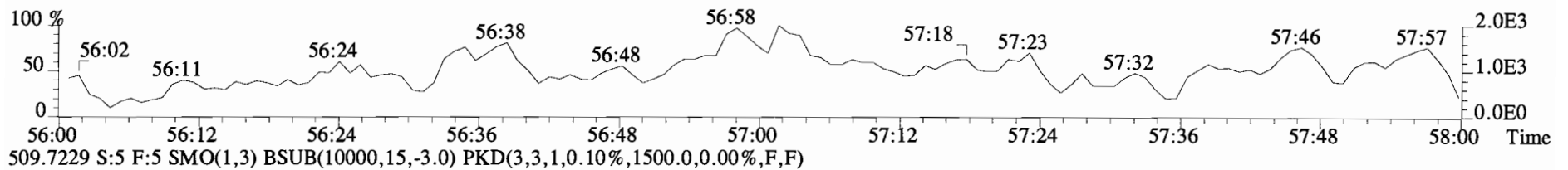
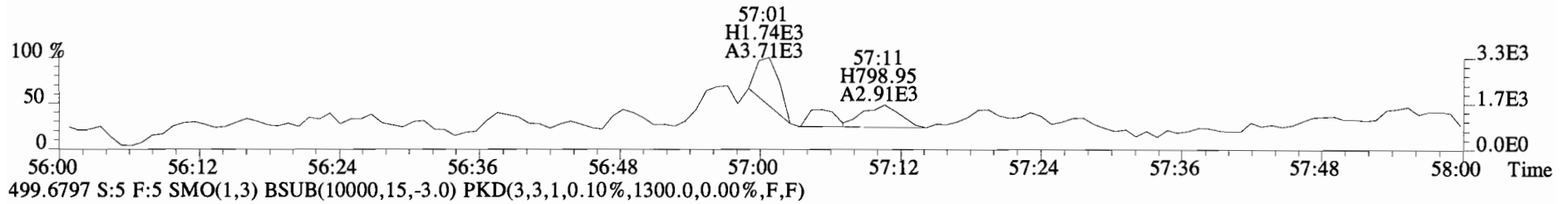
File:140919E2 #1-430 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



File:140919E2 #1-430 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1504.0,0.00%,F,F)



File:140919E2 #1-430 Acq:20-SEP-2014 04:00:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BLK1 Method Blank Exp:PCB\_ZB1  
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1284.0,0.00%,F,F)





Lab Name: Vista Analytical Laboratory      OPR Data Filename: B4I0032-BS1

Matrix : SOLID      Ext. Date: 9-10-14      Analysis Date: 20-SEP-14 Time: 00:47:26

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	38.0	30.0-67.5	13C-PCB-1	100	74.1	15-145	13C-PCB-79	100	90.2	40-145
PCB-3	50	38.7	30.0-67.5	13C-PCB-3	100	81.4	15-145	13C-PCB-178	100	99.7	40-145
PCB-4/10	200	203.1	120-270	13C-PCB-4	100	59.7	15-145				
PCB-15	100	101.4	60.0-135	13C-PCB-11	100	73.4	15-145				
PCB-19	50	46.2	30.0-67.5	13C-PCB-19	100	84.5	15-145				
PCB-37	50	52.8	30.0-67.5	13C-PCB-37	100	86.6	15-145				
PCB-54	50	47.8	30.0-67.5	13C-PCB-54	100	69.2	15-145				
PCB-81	50	45.8	30.0-67.5	13C-PCB-81	100	92.9	40-145				
PCB-77	50	47.9	30.0-67.5	13C-PCB-77	100	93.6	40-145				
PCB-104	50	51.3	30.0-67.5	13C-PCB-104	100	76.1	40-145				
PCB-123	50	49.0	30.0-67.5	13C-PCB-123	100	94.3	40-145				
PCB-106/118	100	101.0	60.0-135	13C-PCB-118	100	91.3	40-145				
PCB-114	50	49.1	30.0-67.5	13C-PCB-114	100	73.8	40-145				
PCB-105	50	48.9	30.0-67.5	13C-PCB-105	100	74.0	40-145				
PCB-126	50	50.8	30.0-67.5	13C-PCB-126	100	75.5	40-145				
PCB-155	50	48.2	30.0-67.5	13C-PCB-155	100	95.0	40-145				
PCB-167	50	46.2	30.0-67.5	13C-PCB-167	100	90.5	40-145				
PCB-156	50	46.9	30.0-67.5	13C-PCB-156	100	90.7	40-145				
PCB-157	50	44.5	30.0-67.5	13C-PCB-157	100	93.3	40-145				
PCB-169	50	44.7	30.0-67.5	13C-PCB-169	100	93.6	40-145				
PCB-188	50	48.2	30.0-67.5	13C-PCB-188	100	92.2	40-145				
PCB-189	50	47.1	30.0-67.5	13C-PCB-189	100	104.8	40-145				
PCB-202	50	47.1	30.0-67.5	13C-PCB-202	100	111.3	40-145				
PCB-205	50	47.1	30.0-67.5	13C-PCB-194	100	94.3	40-145				
PCB-208	50	49.6	30.0-67.5	13C-PCB-208	100	91.1	40-145				
PCB-206	50	49.9	30.0-67.5	13C-PCB-206	100	95.9	40-145				
PCB-209	50	48.8	30.0-67.5	13C-PCB-209	100	106.3	40-145				

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	5.18e+07	3.14	y	1.19	16:20	1.001	0.996-1.006	38.0417	PCB-52/69	1.11e+08	0.82	y	1.28	31:43	1.001	0.996-1.006	97.3634
PCB-2	6.03e+07	3.13	y	1.18	18:43	0.988	0.984-0.994	38.8783	PCB-73	6.24e+07	0.82	y	1.35	31:50	1.004	1.000-1.010	51.7543
PCB-3	7.23e+07	3.12	y	1.43	18:57	1.001	0.996-1.006	38.6964	PCB-43/49	8.76e+07	0.81	y	0.99	32:00	1.009	1.005-1.015	98.8063
									PCB-47	4.86e+07	0.80	y	1.06	32:13	1.001	0.996-1.006	47.9565
PCB-4/10	1.97e+08	1.65	y	1.57	20:19	1.002	0.997-1.007	203.116	PCB-48/75	1.16e+08	0.82	y	1.23	32:20	1.004	0.999-1.009	99.0358
PCB-7/9	2.50e+08	1.65	y	1.21	22:06	0.869	0.866-0.874	203.764	PCB-65	6.13e+07	0.81	y	1.22	32:36	1.013	1.008-1.018	52.2702
PCB-6	1.34e+08	1.65	y	1.30	22:45	0.895	0.890-0.899	101.243	PCB-62	5.44e+07	0.81	y	1.22	32:42	1.016	1.011-1.021	46.5496
PCB-5/8	2.48e+08	1.65	y	1.15	23:10	0.911	0.907-0.917	213.604	PCB-44	4.20e+07	0.81	y	0.86	33:01	1.025	1.021-1.031	50.9910
PCB-14	1.32e+08	1.66	y	1.11	24:15	0.953	0.949-0.959	98.1806	PCB-42/59	1.12e+08	0.80	y	1.14	33:14	1.032	1.028-1.038	102.821
PCB-11	1.35e+08	1.68	y	1.09	25:27	1.001	0.995-1.005	102.478	PCB-41/64/71/72	2.37e+08	0.81	y	1.21	33:50	1.051	1.046-1.056	205.321
PCB-12/13	2.98e+08	1.65	y	1.19	25:51	1.016	1.011-1.021	205.434	PCB-68	6.84e+07	0.82	y	1.35	34:04	1.058	1.054-1.064	53.0290
PCB-15	1.58e+08	1.62	y	1.28	26:09	1.028	1.023-1.033	101.390	PCB-40	3.64e+07	0.83	y	0.70	34:18	1.065	1.061-1.071	54.2576
									PCB-57	6.29e+07	0.80	y	0.98	34:40	0.971	0.965-0.975	49.1006
PCB-19	3.83e+07	1.11	y	1.04	24:27	1.001	0.996-1.006	46.2282	PCB-67	7.02e+07	0.82	y	1.11	34:58	0.979	0.974-0.984	48.5080
PCB-30	6.49e+07	1.10	y	1.71	25:20	1.037	1.032-1.042	47.7834	PCB-58	6.08e+07	0.81	y	0.93	35:05	0.982	0.977-0.987	50.0970
PCB-18	4.62e+07	1.09	y	0.78	26:05	0.954	0.949-0.959	45.0823	PCB-63	5.98e+07	0.81	y	0.95	35:14	0.986	0.982-0.992	47.9644
PCB-17	5.42e+07	1.10	y	0.92	26:15	0.961	0.956-0.966	44.8461	PCB-74	7.95e+07	0.80	y	1.24	35:31	0.994	0.990-1.000	48.8912
PCB-24/27	1.43e+08	1.09	y	1.19	26:50	0.981	0.977-0.987	91.9146	PCB-61/70	1.23e+08	0.81	y	0.95	35:42	1.000	0.995-1.005	98.2756
PCB-16/32	1.14e+08	1.09	y	0.94	27:20	1.000	0.995-1.005	92.8547	PCB-76/66	1.32e+08	0.81	y	1.04	35:55	1.006	1.001-1.011	96.8443
PCB-34	6.79e+07	1.05	y	1.14	28:07	0.960	0.955-0.965	53.0863	PCB-80	8.07e+07	0.81	y	1.19	36:08	1.000	0.996-1.006	49.6316
PCB-23	7.57e+07	1.06	y	1.28	28:13	0.963	0.959-0.969	52.5801	PCB-55	7.04e+07	0.82	y	1.04	36:27	1.009	1.005-1.015	49.5190
PCB-29	6.63e+07	1.06	y	1.08	28:28	0.972	0.967-0.977	54.5380	PCB-56/60	1.36e+08	0.81	y	1.01	36:58	1.023	1.019-1.029	98.4405
PCB-26	7.24e+07	1.06	y	1.21	28:40	0.979	0.974-0.984	53.2879	PCB-79	7.22e+07	0.81	y	1.08	38:02	1.053	1.048-1.058	49.0317
PCB-25	8.12e+07	1.06	y	1.26	28:51	0.985	0.979-0.989	57.2073	PCB-78	7.56e+07	0.82	y	1.27	38:43	0.987	0.982-0.992	46.0333
PCB-31	8.06e+07	1.04	y	1.28	29:12	0.997	0.992-1.002	55.7605	PCB-81	7.89e+07	0.82	y	1.33	39:15	1.000	0.995-1.005	45.8468
PCB-28	1.02e+08	1.08	y	1.71	29:18	1.000	0.995-1.005	53.1018	PCB-77	7.01e+07	0.84	y	1.10	39:51	1.001	0.995-1.005	47.8824
PCB-20/21/33	2.04e+08	1.06	y	1.08	29:55	1.021	1.017-1.027	167.983									
PCB-22	7.67e+07	1.06	y	1.21	30:22	1.037	1.032-1.042	56.3433	PCB-104	5.21e+07	1.65	y	1.18	32:53	1.001	0.996-1.006	51.3145
PCB-36	6.94e+07	1.04	y	1.14	30:58	0.934	0.928-0.938	53.4091	PCB-96	5.06e+07	1.64	y	1.14	34:08	1.039	1.034-1.044	51.7965
PCB-39	6.51e+07	1.07	y	1.12	31:26	0.948	0.943-0.953	51.2244	PCB-103	4.34e+07	1.63	y	0.96	34:40	1.055	1.050-1.060	52.9094
PCB-38	6.77e+07	1.06	y	1.20	32:13	0.971	0.966-0.976	49.5498	PCB-100	4.36e+07	1.65	y	0.94	35:01	1.066	1.061-1.071	54.1658
PCB-35	7.75e+07	1.07	y	1.23	32:44	0.987	0.982-0.992	55.2752	PCB-94	3.63e+07	1.64	y	1.06	35:30	0.986	0.980-0.990	48.8531
PCB-37	7.39e+07	1.05	y	1.23	33:11	1.001	0.995-1.005	52.7901	PCB-95/98/102	1.32e+08	1.64	y	1.22	35:59	0.999	0.995-1.005	153.610
									PCB-93	2.90e+07	1.68	y	0.84	36:07	1.003	0.997-1.007	48.9092
PCB-54	5.34e+07	0.82	y	1.10	28:11	1.000	0.996-1.006	47.8170	PCB-88/91	8.36e+07	1.64	y	1.12	36:24	1.011	1.005-1.015	106.567
PCB-50	4.60e+07	0.81	y	0.88	29:21	1.042	1.037-1.047	51.4799	PCB-121	5.68e+07	1.66	y	1.62	36:31	1.014	1.009-1.019	50.0317
PCB-53	4.51e+07	0.81	y	1.06	30:00	0.946	0.942-0.952	47.5430	PCB-84/92	8.07e+07	1.62	y	1.05	37:20	0.990	0.985-0.995	100.797
PCB-51	4.30e+07	0.81	y	0.99	30:20	0.957	0.952-0.962	48.6745	PCB-89	4.36e+07	1.62	y	1.13	37:31	0.995	0.991-1.001	50.4507
PCB-45	3.73e+07	0.82	y	0.86	30:47	0.971	0.966-0.976	48.5067									
PCB-46	3.69e+07	0.82	y	0.85	31:15	0.986	0.981-0.991	49.0017									

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by  
Analyst Dms

Date: 9/22/14

Reviewed

by  
Analyst: [Signature]

Date: 9/23/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	8.59e+07	1.61	y	1.10	37:42	1.000	0.995-1.005	102.008	PCB-133/142	7.38e+07	1.31	y	0.82	42:38	0.982	0.977-0.987	93.2760
PCB-113	5.04e+07	1.61	y	1.41	37:56	1.006	1.002-1.012	46.6761	PCB-131	3.92e+07	1.28	y	0.91	42:48	0.986	0.981-0.991	44.7312
PCB-99	5.73e+07	1.65	y	1.34	38:02	1.009	1.004-1.014	56.0923	PCB-146/165	1.09e+08	1.31	y	1.25	43:00	0.991	0.986-0.996	90.4211
PCB-119	5.46e+07	1.62	y	1.53	38:30	0.987	0.982-0.992	49.6823	PCB-132/161	9.68e+07	1.29	y	1.10	43:15	0.996	0.992-1.002	90.7283
PCB-108/112	9.14e+07	1.62	y	1.28	38:39	0.991	0.986-0.996	99.5207	PCB-153	5.37e+07	1.32	y	1.25	43:26	1.001	0.995-1.005	44.5488
PCB-83	5.35e+07	1.65	y	1.52	38:50	0.996	0.990-1.000	49.1617	PCB-168	6.40e+07	1.31	y	1.45	43:38	1.005	1.001-1.011	45.7403
PCB-97	4.24e+07	1.64	y	1.18	39:01	1.001	0.995-1.005	49.9853	PCB-141	4.39e+07	1.31	y	1.09	44:10	1.000	0.995-1.005	45.0119
PCB-86	3.35e+07	1.63	y	0.84	39:09	1.004	0.999-1.009	55.4886	PCB-137	4.43e+07	1.32	y	1.06	44:33	1.009	1.004-1.014	46.4100
B-87/117/125	1.68e+08	1.63	y	1.55	39:17	1.007	1.002-1.012	150.949	PCB-130	4.29e+07	1.31	y	0.96	44:39	1.011	1.006-1.016	49.5584
PCB-111/115	1.14e+08	1.65	y	1.63	39:26	1.011	1.006-1.016	97.6348	PCB-138/163/164	1.66e+08	1.30	y	1.29	45:02	1.001	0.996-1.006	134.161
PCB-85/116	1.00e+08	1.65	y	1.30	39:34	1.015	1.010-1.020	107.502	PCB-158/160	1.16e+08	1.32	y	1.34	45:17	1.007	1.001-1.011	90.4230
PCB-120	6.18e+07	1.64	y	1.68	39:49	1.021	1.016-1.026	51.3827	PCB-129	3.75e+07	1.32	y	0.85	45:31	1.012	1.007-1.017	45.9273
PCB-110	5.78e+07	1.64	y	1.56	39:57	1.024	1.020-1.030	51.8286	PCB-166	5.79e+07	1.28	y	1.19	45:58	0.993	0.988-0.998	45.2179
PCB-82	3.75e+07	1.62	y	0.76	40:35	0.977	0.971-0.981	52.1077	PCB-159	5.48e+07	1.28	y	1.11	46:18	1.000	0.996-1.006	45.5584
PCB-124	7.00e+07	1.62	y	1.47	41:15	0.993	0.988-0.998	50.1800	PCB-128/162	1.03e+08	1.33	y	1.05	46:34	1.006	1.002-1.012	90.8564
PCB-107/109	1.25e+08	1.64	y	1.32	41:24	0.996	0.991-1.001	99.5103	PCB-167	6.57e+07	1.29	y	1.20	46:59	1.001	0.995-1.005	46.1631
PCB-123	5.43e+07	1.66	y	1.17	41:34	1.000	0.996-1.006	49.0226	PCB-156	6.06e+07	1.29	y	1.14	48:16	1.000	0.996-1.006	46.8699
PCB-106/118	1.17e+08	1.67	y	1.17	41:47	1.001	0.996-1.006	101.031	PCB-157	6.35e+07	1.30	y	1.16	48:32	1.000	0.995-1.005	44.4525
PCB-114	6.20e+07	1.63	y	1.30	42:24	1.000	0.995-1.005	49.0750	PCB-169	5.83e+07	1.29	y	1.12	50:39	1.000	0.995-1.005	44.6689
PCB-122	5.66e+07	1.64	y	1.12	42:33	1.004	0.999-1.009	51.8314	PCB-188	6.25e+07	1.07	y	1.58	43:04	1.000	0.996-1.006	48.2010
PCB-105	6.23e+07	1.65	y	1.30	43:16	1.000	0.995-1.005	48.9478	PCB-184	6.48e+07	1.07	y	1.63	43:31	1.011	1.006-1.016	48.4361
PCB-127	6.96e+07	1.65	y	1.33	43:36	1.000	0.996-1.006	50.1447	PCB-179	5.12e+07	1.08	y	1.30	44:18	1.029	1.024-1.034	47.9225
PCB-126	5.74e+07	1.63	y	1.18	45:31	1.001	0.995-1.005	50.7613	PCB-176	5.89e+07	1.08	y	1.48	44:46	1.040	1.035-1.045	48.6506
PCB-155	4.82e+07	1.31	y	1.11	37:16	1.001	0.966-1.006	48.2087	PCB-186	5.85e+07	1.07	y	1.45	45:22	1.054	1.050-1.060	49.1223
PCB-150	4.53e+07	1.31	y	1.00	38:31	1.035	1.030-1.040	50.4640	PCB-178	4.26e+07	1.08	y	1.03	45:51	1.065	1.061-1.071	50.1872
PCB-152	4.91e+07	1.31	y	1.12	38:60	1.047	1.043-1.053	49.0057	PCB-175	4.25e+07	1.08	y	1.01	46:12	1.073	1.069-1.079	51.1479
PCB-145	5.35e+07	1.30	y	1.20	39:27	1.059	1.055-1.065	49.5738	PCB-182/187	1.02e+08	1.07	y	1.25	46:23	1.077	1.073-1.083	99.5350
PCB-136	5.48e+07	1.32	y	1.18	39:46	1.068	1.064-1.074	51.7527	PCB-183	4.93e+07	1.06	y	1.21	46:41	1.085	1.081-1.091	49.7669
PCB-148	3.30e+07	1.30	y	0.74	39:52	1.071	1.066-1.076	49.3286	PCB-185	5.63e+07	1.09	y	1.80	47:22	0.956	0.951-0.961	46.0677
PCB-154	4.13e+07	1.30	y	0.86	40:22	1.084	1.080-1.090	53.5866	PCB-174	4.61e+07	1.20	y	1.38	47:44	0.963	0.958-0.968	49.3841
PCB-151	3.56e+07	1.32	y	0.75	41:00	1.101	1.097-1.107	53.1111	PCB-181	4.52e+07	0.96	y	1.38	47:50	0.966	0.960-0.970	48.2793
PCB-135	3.63e+07	1.28	y	0.79	41:13	1.107	1.103-1.113	51.0233	PCB-177	4.09e+07	1.05	y	1.26	47:60	0.969	0.963-0.973	48.1013
PCB-144	3.91e+07	1.32	y	0.76	41:20	1.110	1.105-1.117	57.1699	PCB-171	5.07e+07	1.09	y	1.58	48:17	0.975	0.970-0.980	47.2835
PCB-147	3.88e+07	1.29	y	0.82	41:27	1.113	1.109-1.121	52.7138	PCB-173	3.67e+07	1.08	y	1.11	48:43	0.983	0.978-0.988	48.8508
PCB-139/149	7.23e+07	1.29	y	0.76	41:43	1.121	1.116-1.128	105.615	PCB-172	5.44e+07	1.07	y	1.63	49:09	0.992	0.987-0.997	49.0447
PCB-140	3.52e+07	1.29	y	0.72	41:54	1.126	1.121-1.133	54.3172	PCB-192	5.77e+07	1.09	y	1.74	49:21	0.996	0.991-1.001	48.8661
PCB-134/143	8.17e+07	1.29	y	0.92	42:20	0.975	0.970-0.980	92.2701	PCB-180	4.39e+07	1.08	y	1.34	49:33	1.000	0.995-1.005	48.1394

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMS

Date: 9/22/14

Client ID: OPR  
Lab ID: B4I0032-BS1

Filename: 140919E2 S:2 Acq:20-SEP-14 00:47:26  
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
PCB-193	5.53e+07	1.06 y	1.72	49:46	1.005	0.999-1.009		47.5108
PCB-191	5.52e+07	1.07 y	1.69	50:00	1.009	1.004-1.014		48.0549
PCB-170	4.36e+07	1.06 y	1.60	51:01	1.000	0.995-1.005		48.3252
PCB-190	5.80e+07	1.06 y	2.21	51:12	1.004	0.998-1.008		46.4904
PCB-189	5.31e+07	1.07 y	1.55	52:30	1.000	0.995-1.005		47.0665
PCB-202	4.61e+07	0.91 y	1.08	48:30	1.000	0.995-1.005		47.0849
PCB-201	5.12e+07	0.92 y	1.15	48:59	1.010	1.005-1.015		49.2438
PCB-204	4.91e+07	0.92 y	1.14	49:08	1.014	1.008-1.018		47.6684
PCB-197	4.74e+07	0.93 y	1.07	49:26	1.020	1.015-1.025		48.7694
PCB-200	4.68e+07	0.92 y	1.06	50:18	1.038	1.032-1.044		48.6402
PCB-198	3.48e+07	0.91 y	0.76	51:36	1.065	1.059-1.069		51.0246
PCB-199	3.90e+07	0.92 y	0.80	51:43	1.067	1.061-1.071		54.1398
PCB-196/203	7.59e+07	0.92 y	0.80	51:59	1.072	1.066-1.076		104.726
PCB-195	4.07e+07	0.92 y	1.23	53:08	0.984	0.979-0.989		48.2454
PCB-194	3.98e+07	0.91 y	1.21	53:60	1.000	0.995-1.005		47.7605
PCB-205	5.00e+07	0.92 y	1.54	54:17	1.005	1.001-1.011		47.1047
PCB-208	4.16e+07	1.39 y	0.93	53:16	1.000	0.995-1.005		49.5639
PCB-207	4.98e+07	1.38 y	1.08	53:35	1.006	1.001-1.011		51.0108
PCB-206	2.92e+07	1.39 y	1.02	55:38	1.000	0.995-1.005		49.9319
PCB-209	3.39e+07	1.18 y	1.17	56:59	1.000	0.995-1.005		48.7579

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.84e+08	3.14 y	16:20	1.27	115.616	
Total Di-PCB	1.56e+09	1.65 y	20:19	1.21	1232.47	
Total Tri-PCB	4.61e+08	1.11 y	24:27	1.10	368.709	
Total Tri-PCB	1.20e+09	1.05 y	28:07	1.21	877.275	Sum:1245.98
Total Tetra-PCB	2.49e+09	0.82 y	28:11	1.09	2092.57	
Total Penta-PCB	2.03e+09	1.65 y	32:53	1.18	2093.22	
Total Penta-PCB	3.29e+08	1.63 y	42:24	1.25	267.621	Sum:2360.84
Total Hexa-PCB	5.82e+08	1.31 y	37:16	0.90	725.870	
Total Hexa-PCB	1.45e+09	1.29 y	42:20	1.11	1293.04	Sum:2018.91
Total Hepta-PCB	1.24e+09	1.07 y	43:04	1.42	1170.17	
Total Octa-PCB	3.90e+08	0.91 y	48:30	0.96	451.297	
Total Octa-PCB	1.32e+08	0.92 y	53:08	1.33	144.668	Sum:595.965
Total Nona-PCB	1.23e+08	1.39 y	53:16	1.01	153.812	
Total Deca-PCB	3.39e+07	1.18 y	56:59	1.17	48.7579	

Total PCB Conc:10959.8174410

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: Dms

Date: 9/22/14

Client ID: OPR  
Lab ID: B4I0032-BS1

Filename: 140919E2 S:2 Acq:20-SEP-14 00:47:26  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

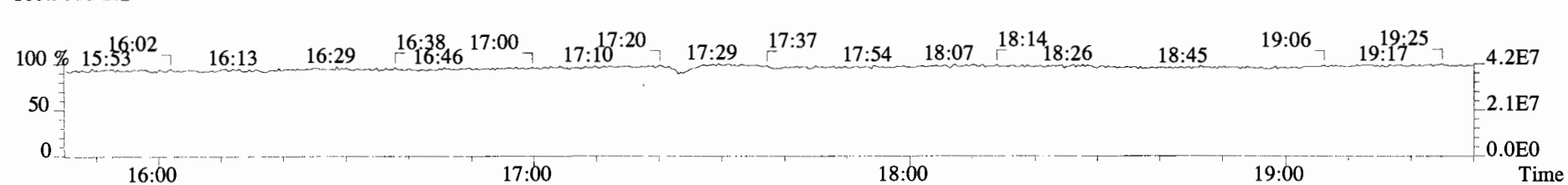
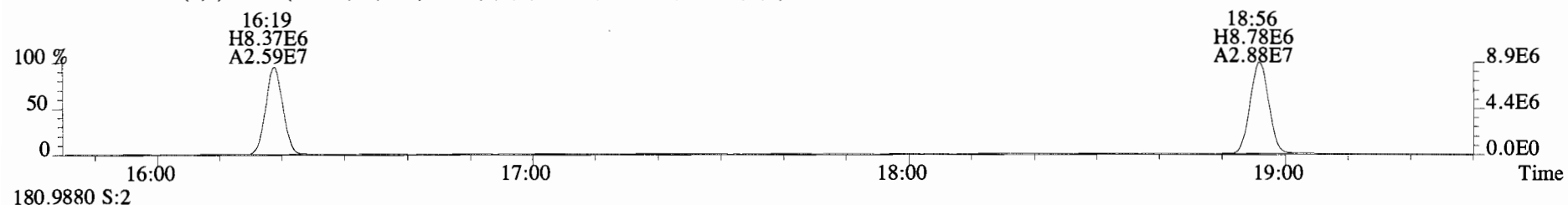
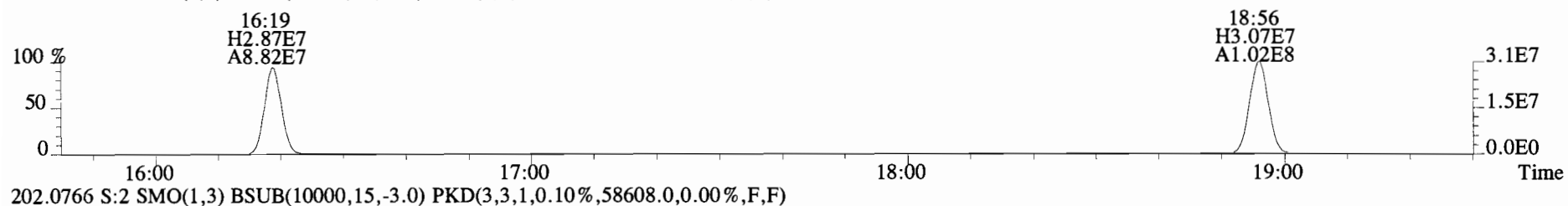
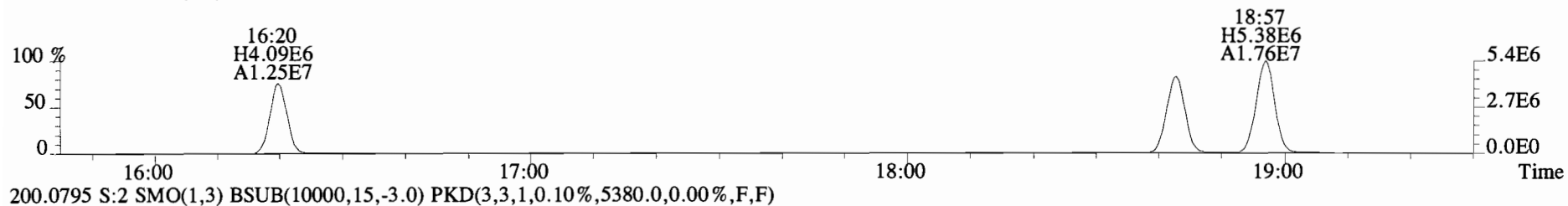
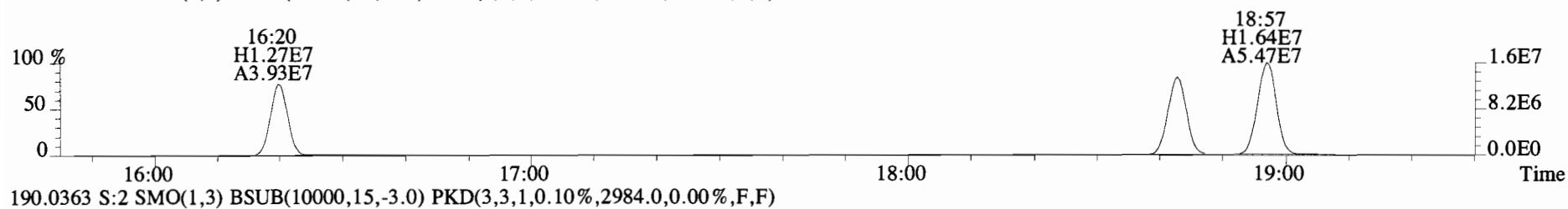
ConCal: ST140919E2-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.14e+08	3.41	y	0.87	16:19	0.624	0.629-0.635	74.1	74.1		13C-PCB-79	1.38e+08	0.85	y	1.02	38:01	1.028	1.023-1.034	90.2	90.2
13C-PCB-3	1.31e+08	3.55	y	0.91	18:56	0.724	0.725-0.733	81.4	81.4		13C-PCB-178	5.93e+07	0.46	y	0.61	45:50	0.985	0.979-0.990	99.7	99.7
13C-PCB-4	6.18e+07	1.56	y	0.59	20:16	0.775	0.775-0.783	59.7	59.7											
13C-PCB-9	1.01e+08	1.58	y	0.90	22:03	0.844	0.842-0.850	63.9	63.9											
13C-PCB-11	1.21e+08	1.55	y	0.94	25:26	0.973	0.968-0.978	73.4	73.4	PS vs. IS										
13C-PCB-19	7.94e+07	1.12	y	0.53	24:25	0.934	0.930-0.940	84.5	84.5		13C-PCB-79	1.38e+08	0.85	y	1.10	38:01	0.969	0.964-0.974	97.0	97.0
13C-PCB-28	1.13e+08	1.10	y	0.93	29:18	1.004	0.999-1.009	77.1	77.1		13C-PCB-178	5.93e+07	0.46	y	0.90	45:50	0.925	0.920-0.930	97.4	97.4
13C-PCB-32	1.31e+08	1.12	y	0.80	27:20	1.046	1.040-1.050	93.2	93.2											
13C-PCB-37	1.14e+08	1.13	y	0.84	33:10	1.136	1.131-1.143	86.6	86.6											
13C-PCB-47	9.58e+07	0.84	y	0.81	32:12	0.871	0.866-0.874	78.2	78.2											
13C-PCB-52	8.91e+07	0.85	y	0.77	31:42	0.858	0.853-0.861	76.6	76.6											
13C-PCB-54	1.01e+08	0.84	y	0.97	28:10	0.762	0.758-0.766	69.2	69.2											
13C-PCB-70	1.31e+08	0.86	y	1.00	35:43	0.966	0.961-0.971	86.9	86.9											
13C-PCB-77	1.33e+08	0.87	y	0.94	39:50	1.078	1.073-1.083	93.6	93.6											
13C-PCB-80	1.36e+08	0.86	y	1.03	36:08	0.978	0.972-0.982	87.6	87.6											
13C-PCB-81	1.29e+08	0.86	y	0.92	39:14	1.062	1.057-1.067	92.9	92.9											
13C-PCB-95	7.02e+07	1.60	y	0.74	36:01	0.914	0.908-0.918	84.2	84.2	RS										
13C-PCB-97	7.17e+07	1.59	y	0.70	38:60	0.989	0.984-0.994	90.4	90.4		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	7.65e+07	1.63	y	0.78	37:42	0.956	0.951-0.961	86.8	86.8		13C-PCB-15	1.76e+08	1.57	y	1.00	26:09	100			
13C-PCB-104	8.58e+07	1.61	y	1.00	32:52	0.833	0.828-0.836	76.1	76.1		13C-PCB-31	1.56e+08	1.12	y	1.00	29:11	100			
13C-PCB-105	9.80e+07	1.71	y	1.37	43:15	0.929	0.924-0.934	74.0	74.0		13C-PCB-60	1.51e+08	0.84	y	1.00	36:58	100			
13C-PCB-114	9.75e+07	1.72	y	1.36	42:24	0.911	0.905-0.915	73.8	73.8		13C-PCB-111	1.13e+08	1.59	y	1.00	39:26	100			
13C-PCB-118	9.86e+07	1.62	y	0.96	41:44	1.059	1.054-1.064	91.3	91.3		13C-PCB-128	9.69e+07	1.32	y	1.00	46:33	100			
13C-PCB-123	9.49e+07	1.59	y	0.89	41:33	1.054	1.050-1.060	94.3	94.3		13C-PCB-205	9.15e+07	0.93	y	1.00	54:16	100			
13C-PCB-126	9.57e+07	1.69	y	1.31	45:29	0.977	0.972-0.982	75.5	75.5											
13C-PCB-127	1.04e+08	1.69	y	1.47	43:35	0.936	0.931-0.941	73.0	73.0											
13C-PCB-138	9.57e+07	1.34	y	1.10	44:59	0.966	0.961-0.971	89.9	89.9											
13C-PCB-141	8.98e+07	1.33	y	1.07	44:09	0.948	0.943-0.953	86.3	86.3											
13C-PCB-153	9.66e+07	1.33	y	1.15	43:25	0.933	0.927-0.937	86.9	86.9											
13C-PCB-155	8.98e+07	1.30	y	0.84	37:14	0.944	0.939-0.949	95.0	95.0											
13C-PCB-156	1.14e+08	1.34	y	1.30	48:15	1.037	1.032-1.042	90.7	90.7											
13C-PCB-157	1.23e+08	1.37	y	1.36	48:31	1.042	1.038-1.048	93.3	93.3											
13C-PCB-159	1.08e+08	1.33	y	1.25	46:17	0.994	0.989-0.999	89.4	89.4											
13C-PCB-167	1.19e+08	1.33	y	1.35	46:57	1.009	1.004-1.014	90.5	90.5											
13C-PCB-169	1.17e+08	1.32	y	1.29	50:39	1.088	1.083-1.093	93.6	93.6											
13C-PCB-170	5.65e+07	0.46	y	0.54	51:00	1.096	1.089-1.101	107	107											
13C-PCB-180	6.78e+07	0.46	y	0.68	49:32	1.064	1.060-1.070	102	102											
13C-PCB-188	8.19e+07	0.47	y	0.92	43:03	0.925	0.919-0.929	92.2	92.2											
13C-PCB-189	7.28e+07	0.46	y	0.72	52:29	1.127	1.120-1.132	105	105											
13C-PCB-194	6.88e+07	0.93	y	0.80	53:59	0.995	0.990-1.000	94.3	94.3											
13C-PCB-202	9.04e+07	0.90	y	0.84	48:28	1.041	1.036-1.046	111	111											
13C-PCB-206	5.70e+07	0.78	y	0.65	55:37	1.025	1.021-1.031	95.9	95.9											
13C-PCB-208	9.01e+07	0.78	y	1.08	53:15	0.981	0.976-0.986	91.1	91.1											
13C-PCB-209	5.94e+07	1.19	y	0.61	56:58	1.050	1.045-1.055	106	106											

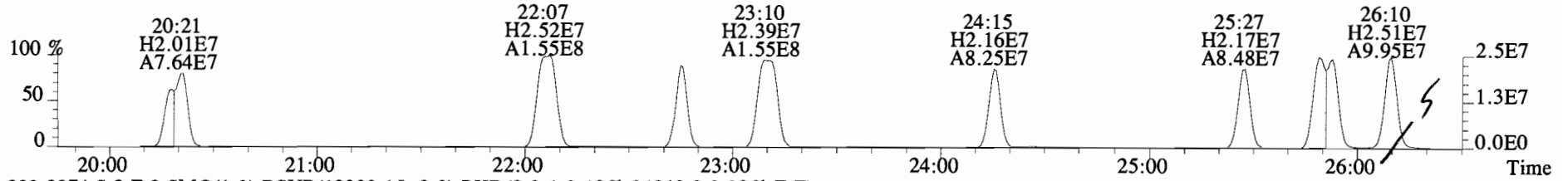
Analyst: *DMS*

Date: *9/22/14*

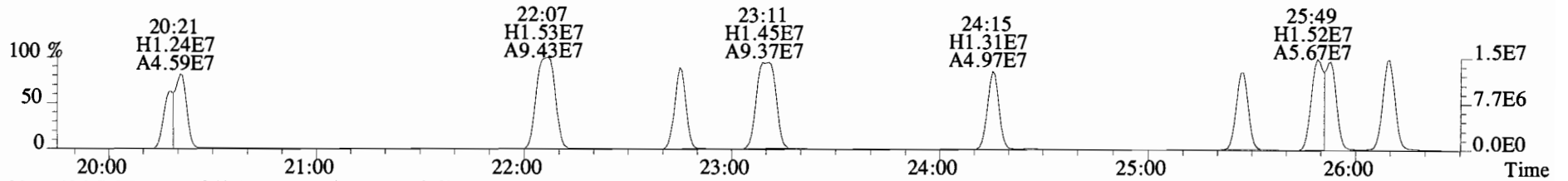
File:140919E2 #1-729 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3180.0,0.00%,F,F)



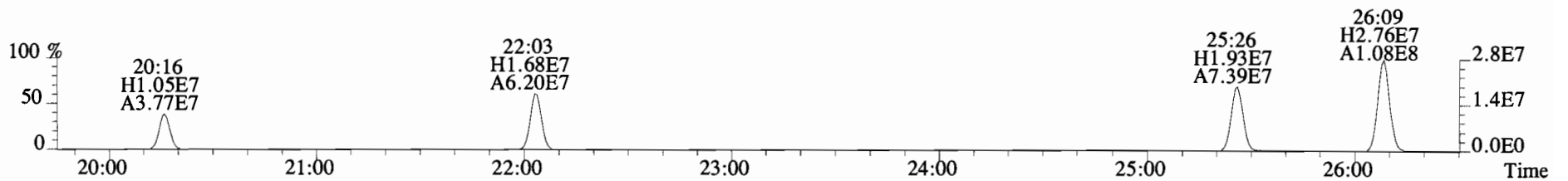
File:140919E2 #1-757 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B410032-BS1 OPR Exp: PCB\_ZB1  
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5324.0,0.00%,F,F)



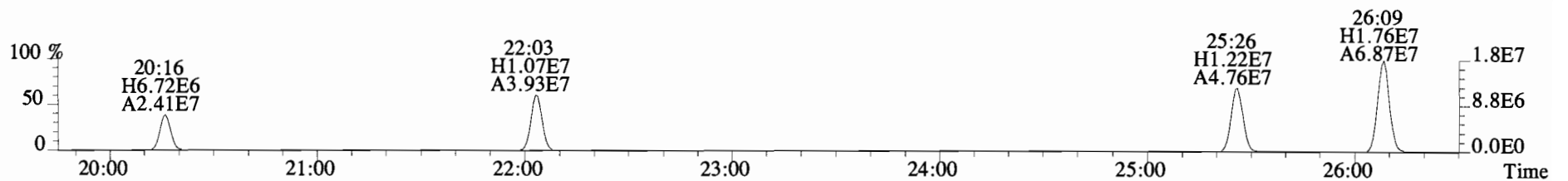
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24948.0,0.00%,F,F)



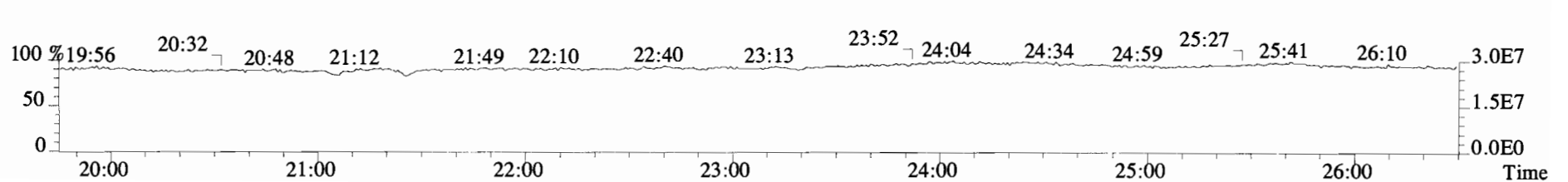
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4304.0,0.00%,F,F)



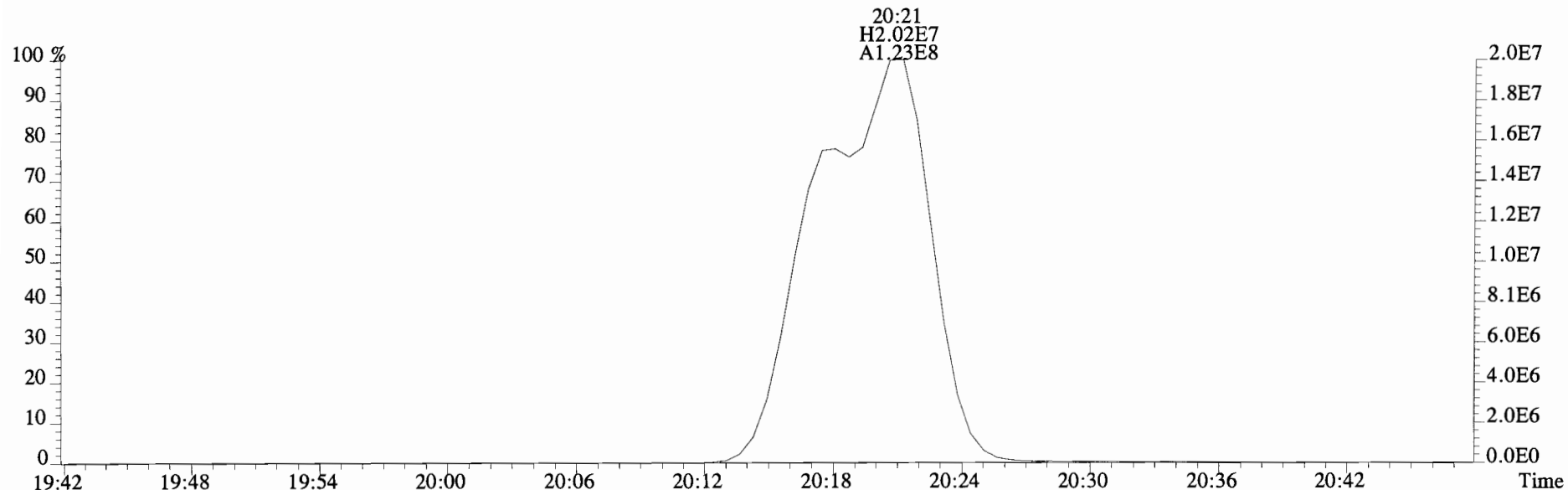
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3928.0,0.00%,F,F)



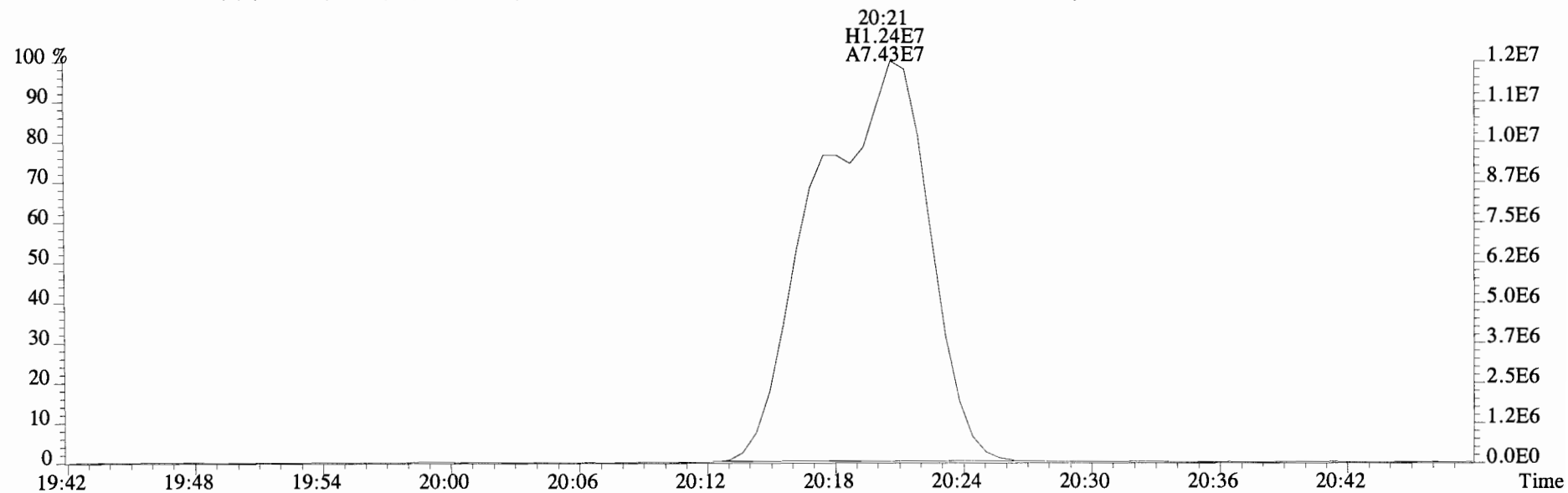
230.9856 S:2 F:2



File:140919E2 #1-757 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5324.0,0.00%,F,F)

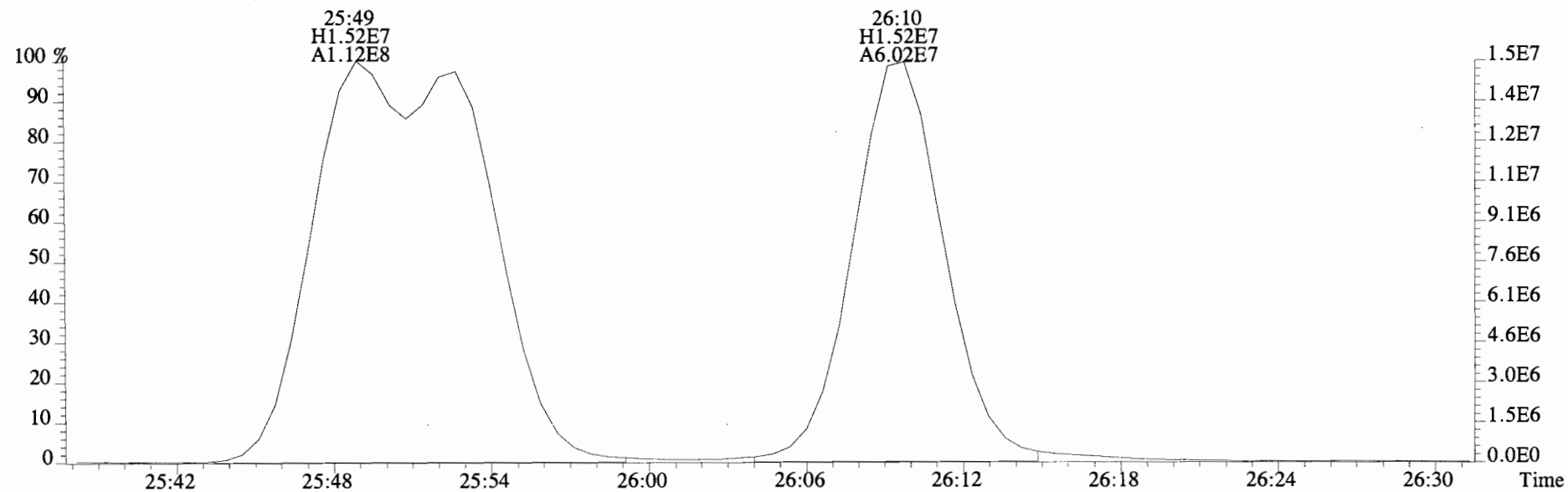
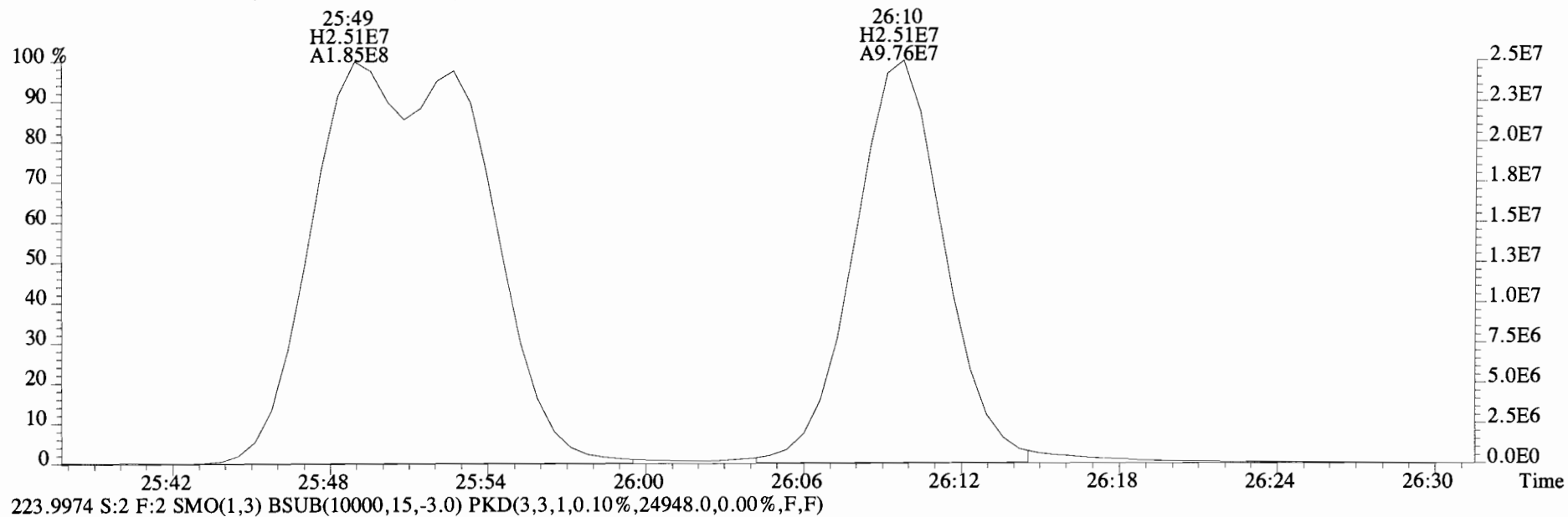


223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24948.0,0.00%,F,F)

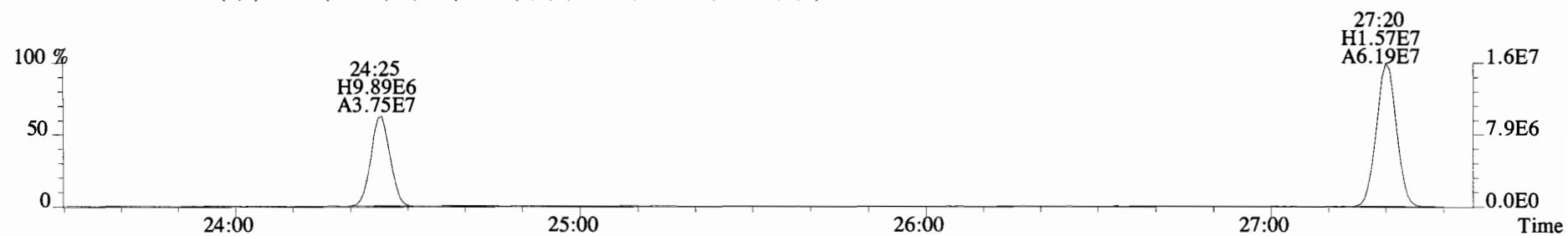
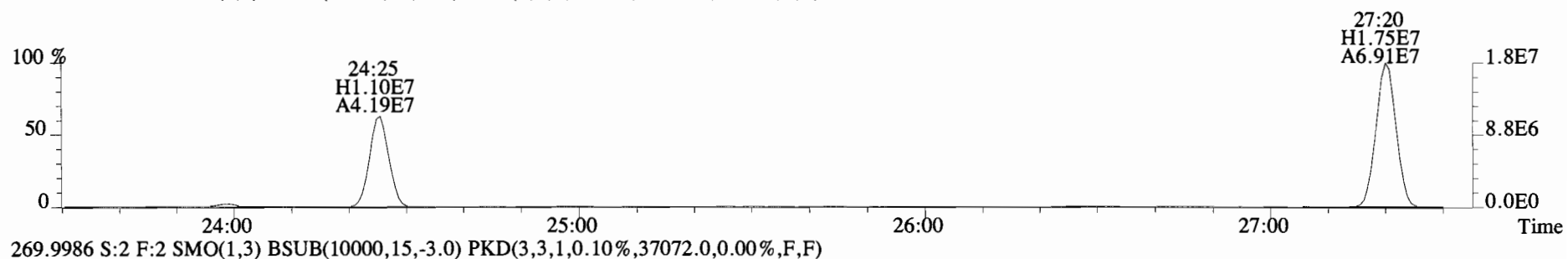
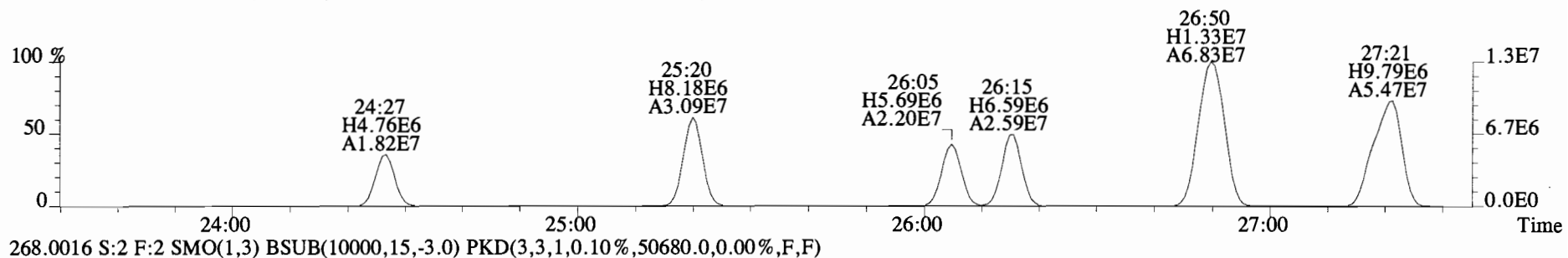
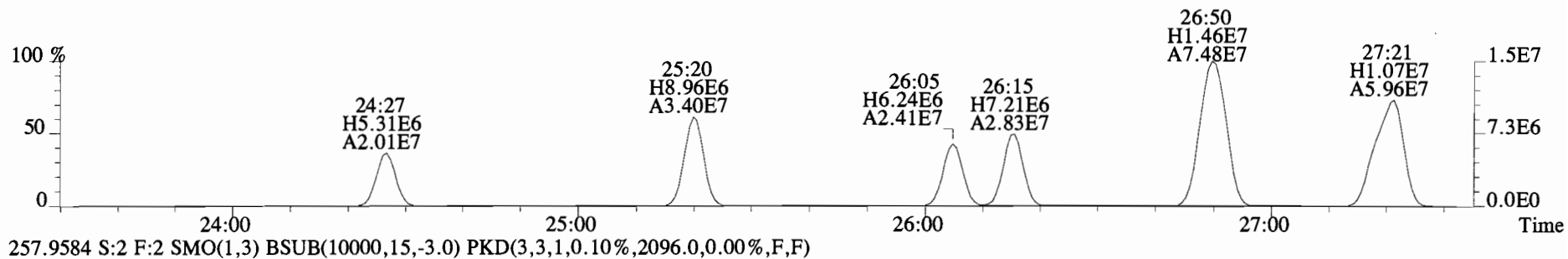




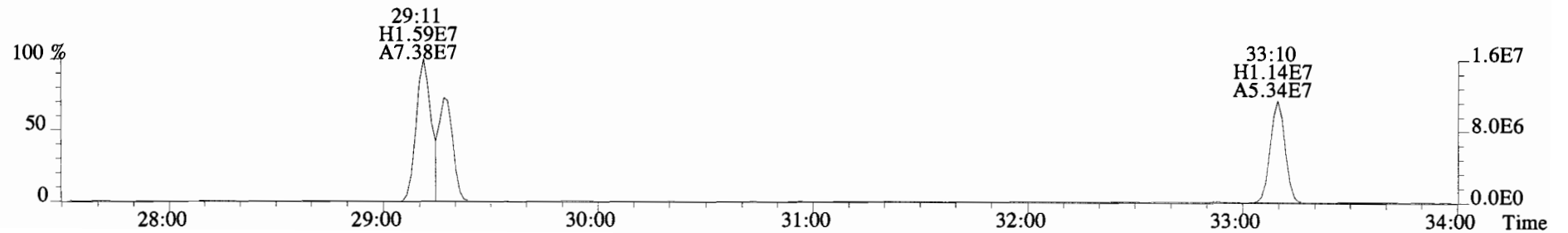
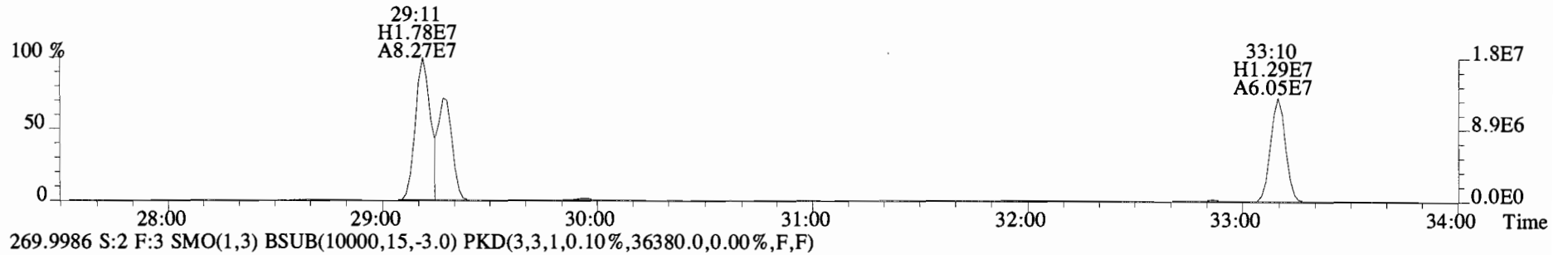
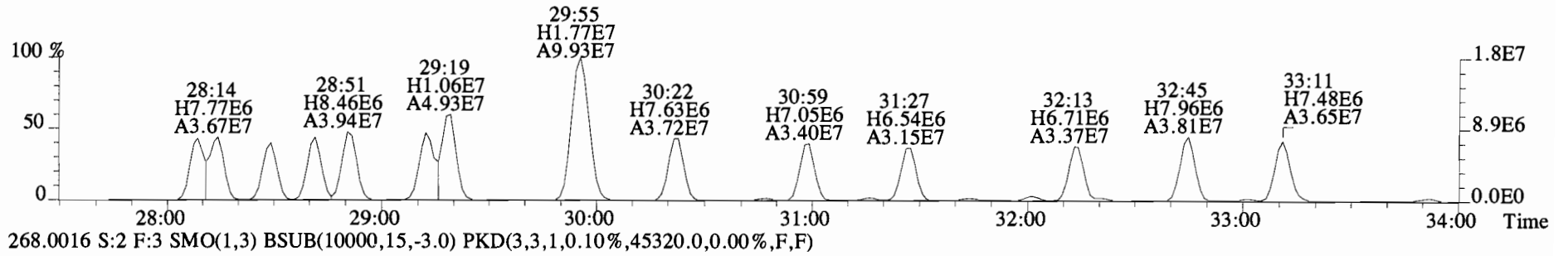
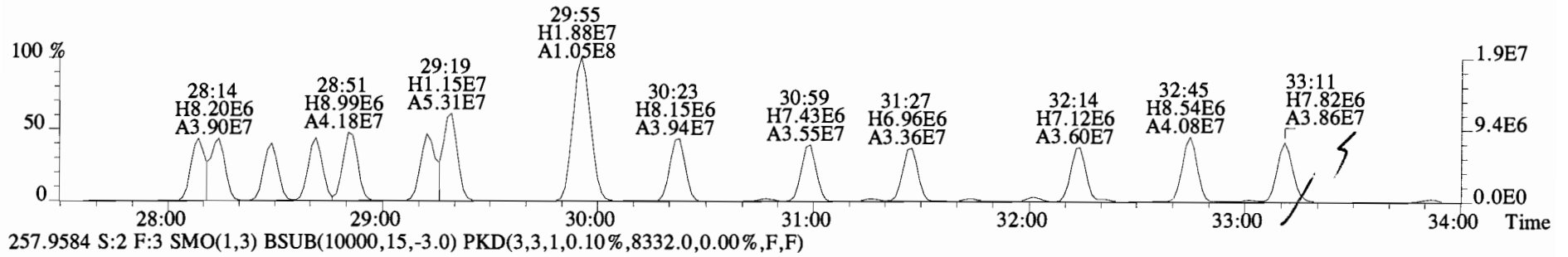
File:140919E2 #1-757 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0032-BS1 OPR Exp: PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5324.0,0.00%,F,F)



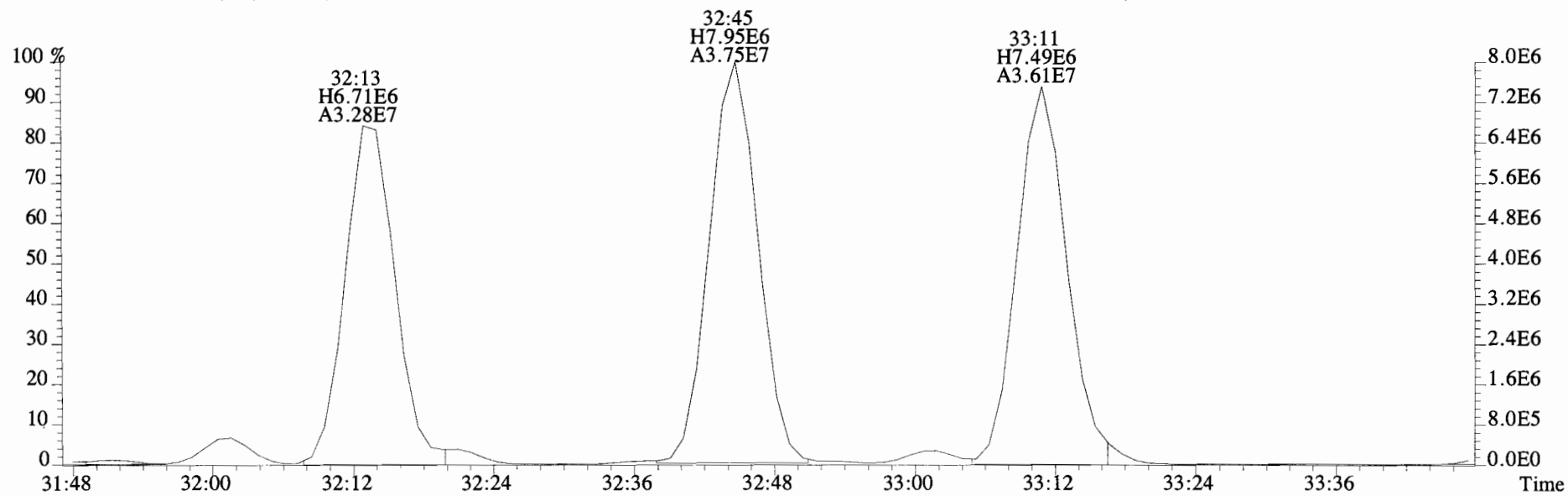
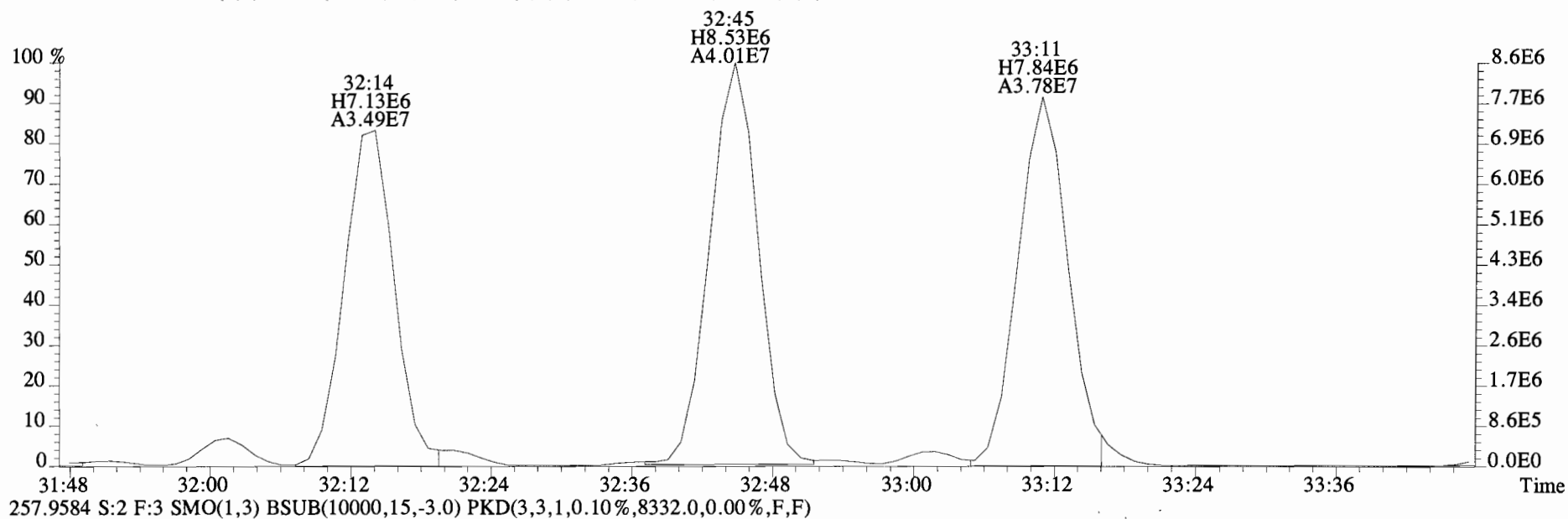
File:140919E2 #1-757 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4580.0,0.00%,F,F)



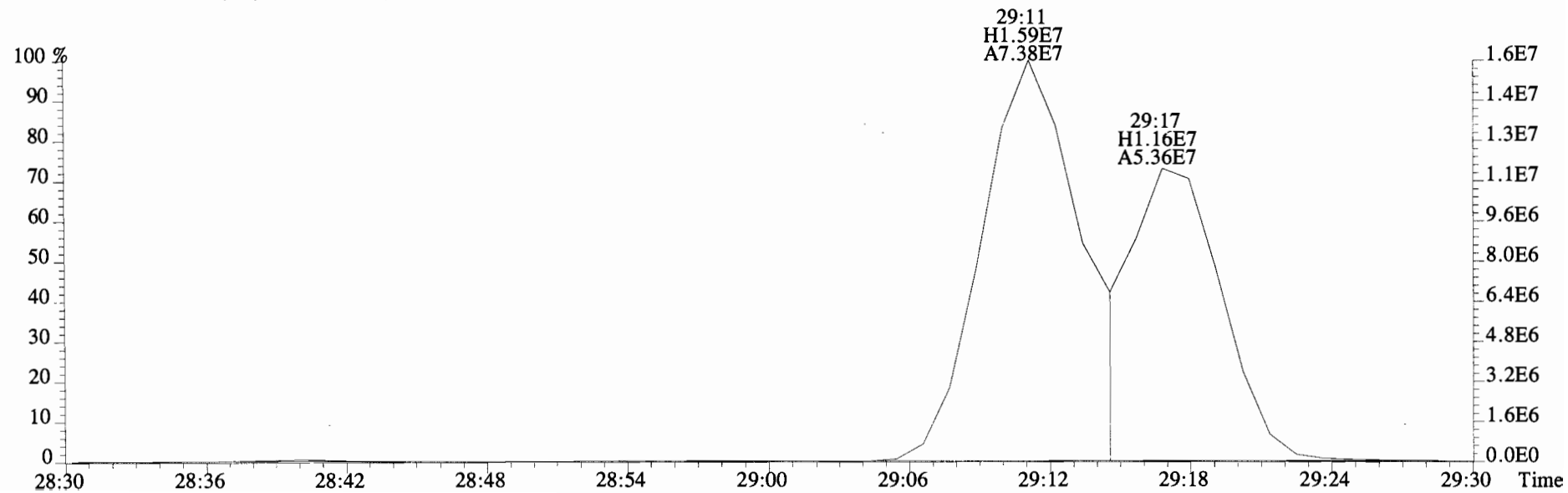
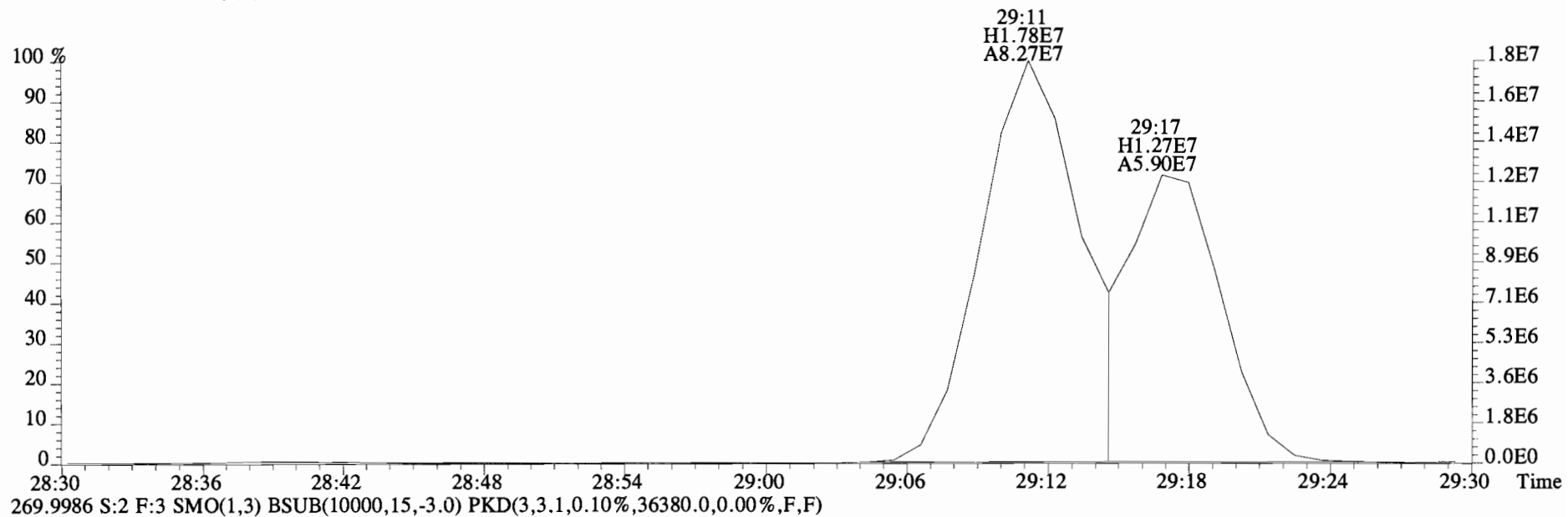
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410032-BS1 OPR Exp:PCB ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10092.0,0.00%,F,F)



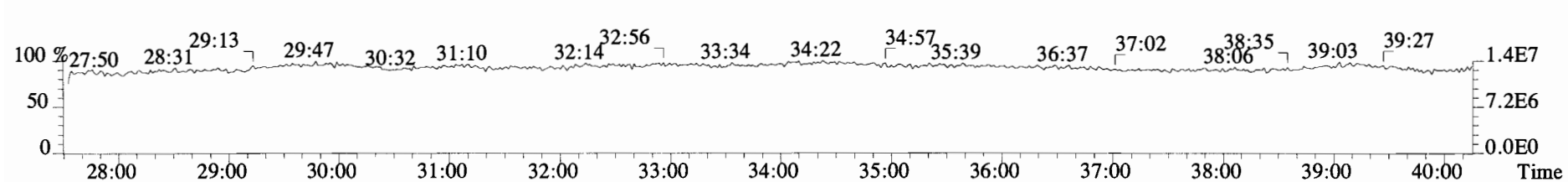
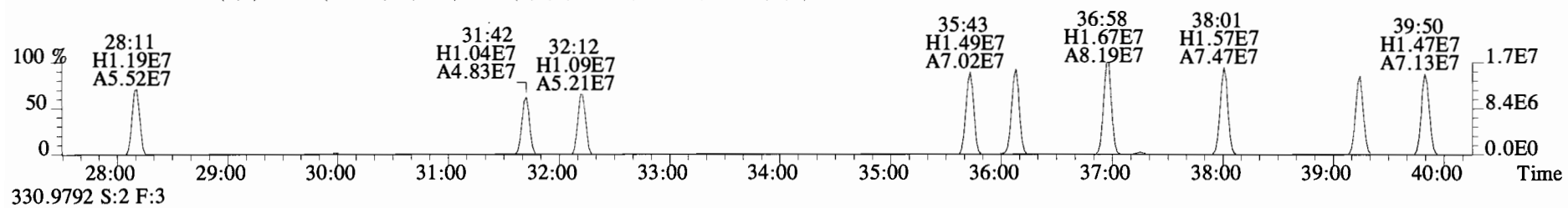
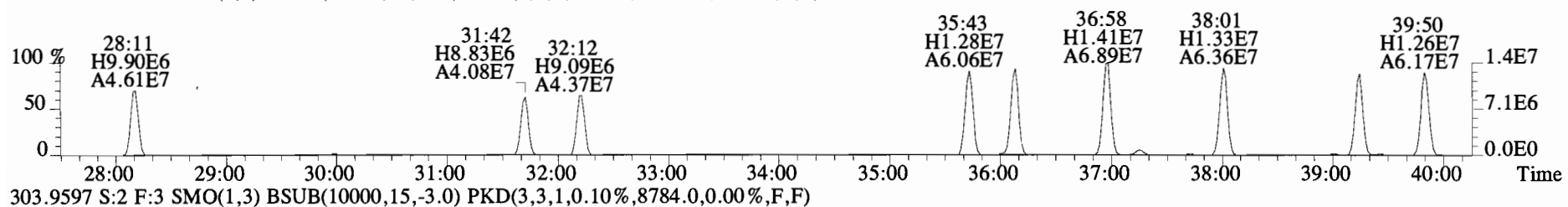
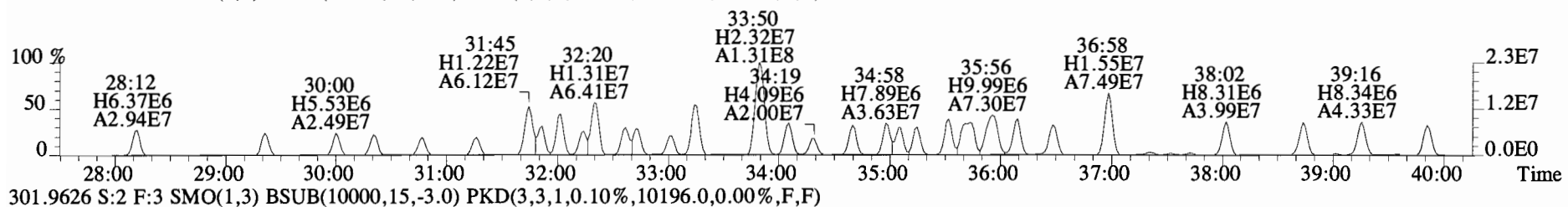
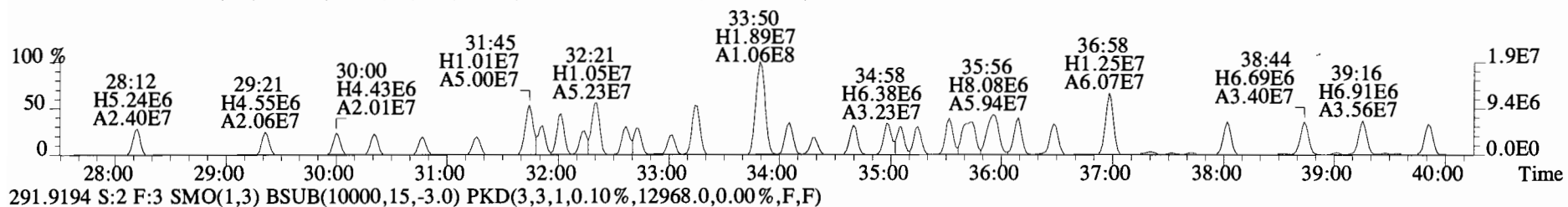
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10092.0,0.00%,F,F)



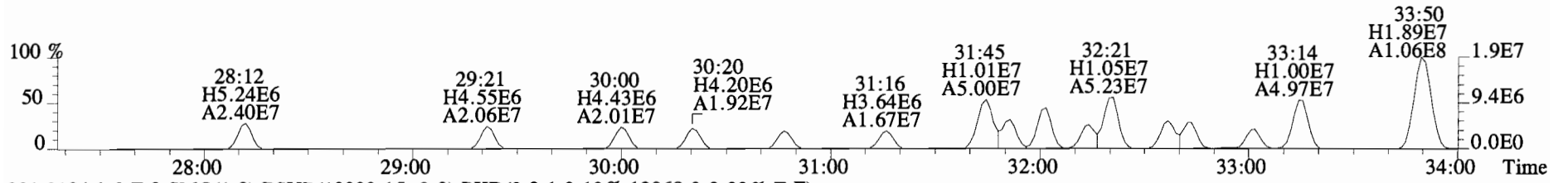
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45320.0,0.00%,F,F)



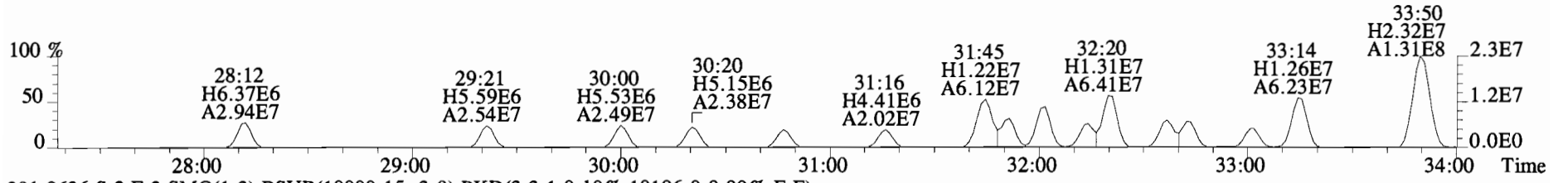
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3856.0,0.00%,F,F)



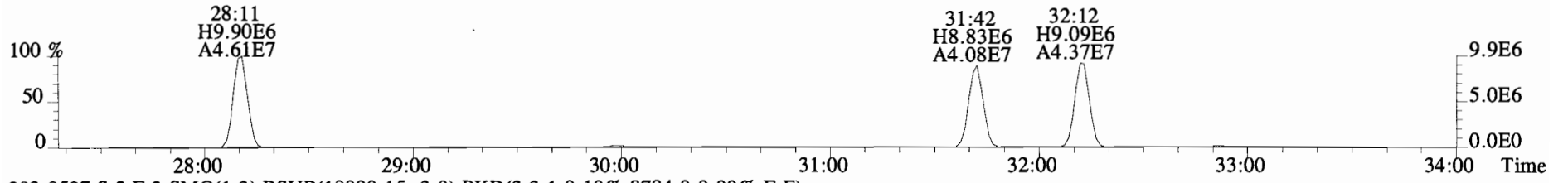
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3856.0,0.00%,F,F)



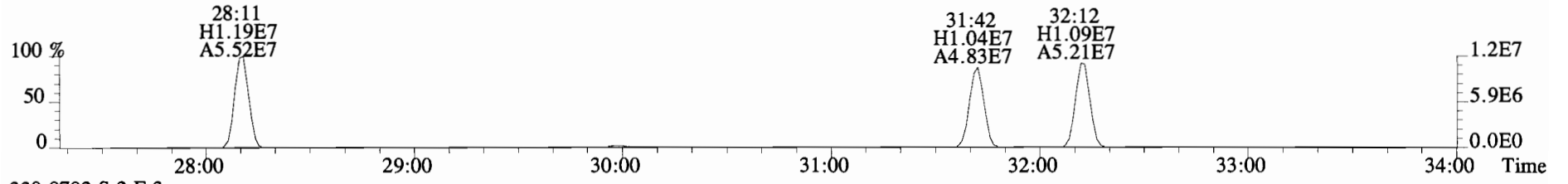
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12968.0,0.00%,F,F)



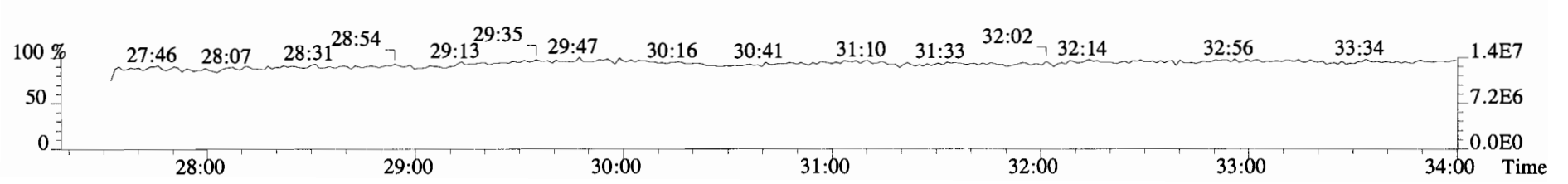
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10196.0,0.00%,F,F)



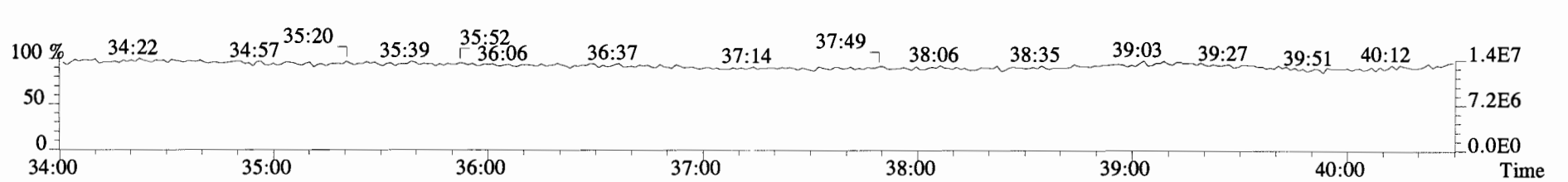
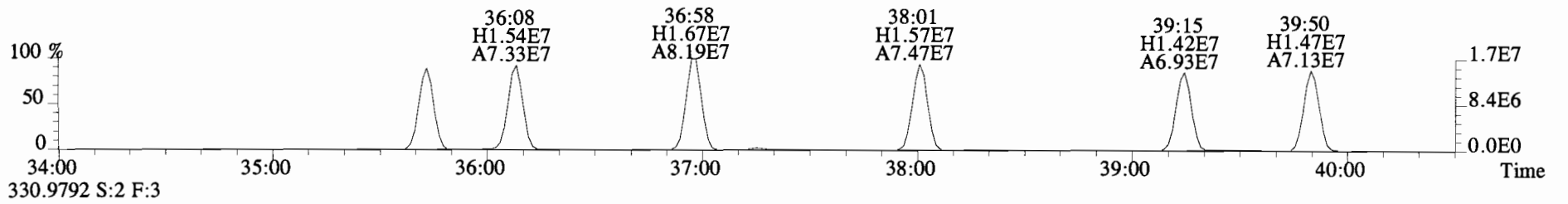
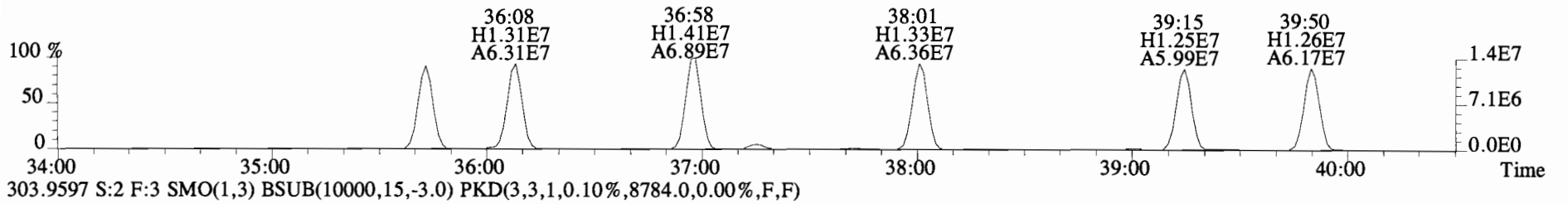
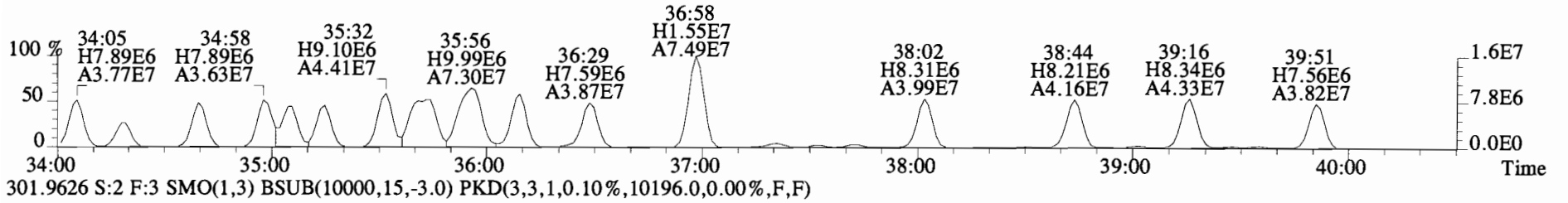
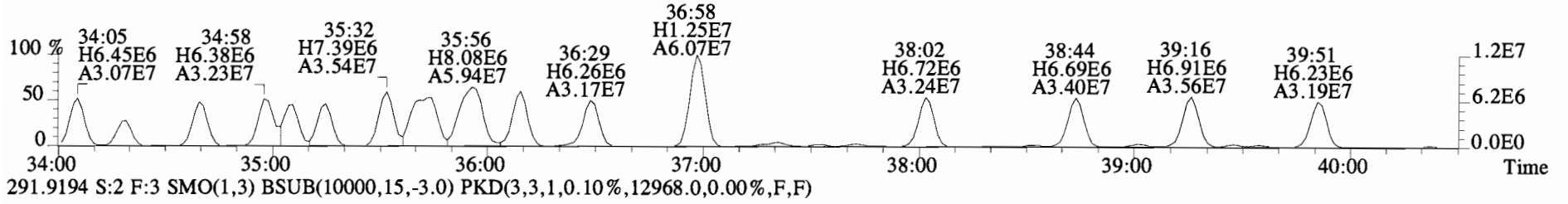
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8784.0,0.00%,F,F)



330.9792 S:2 F:3

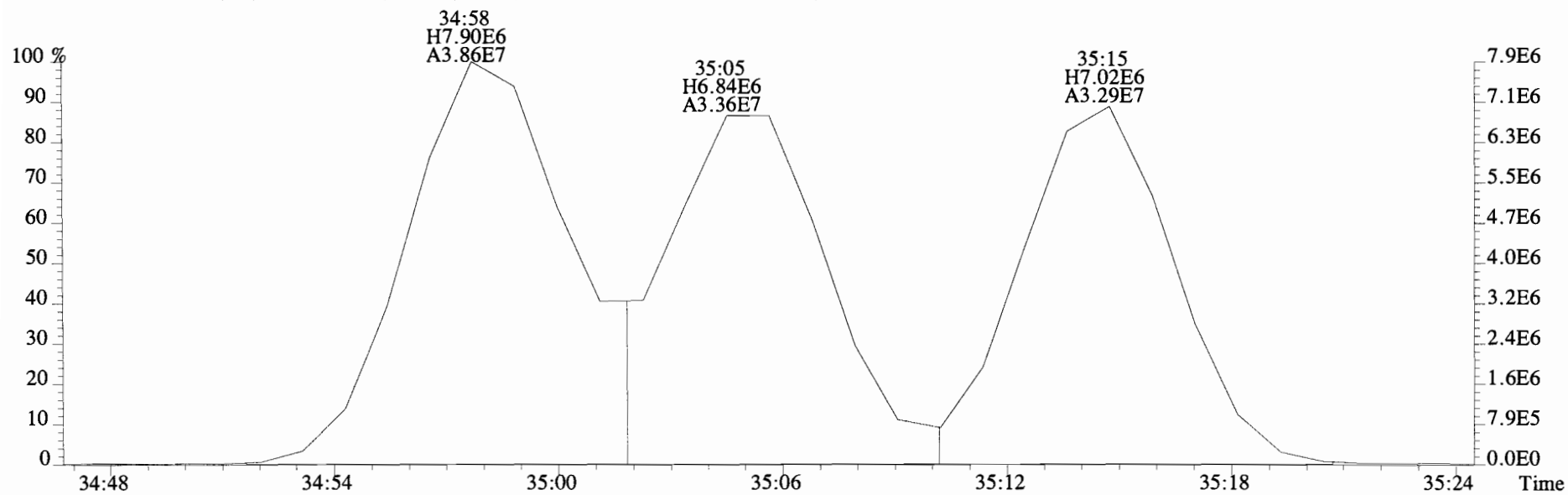
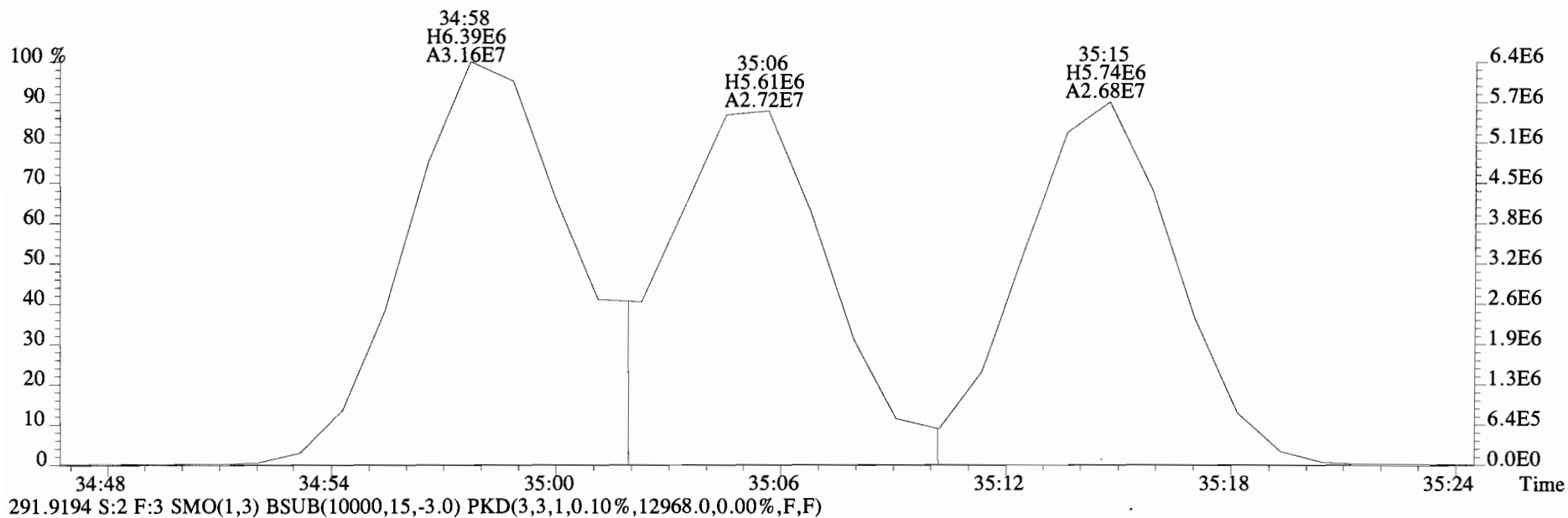


File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3856.0,0.00%,F,F)

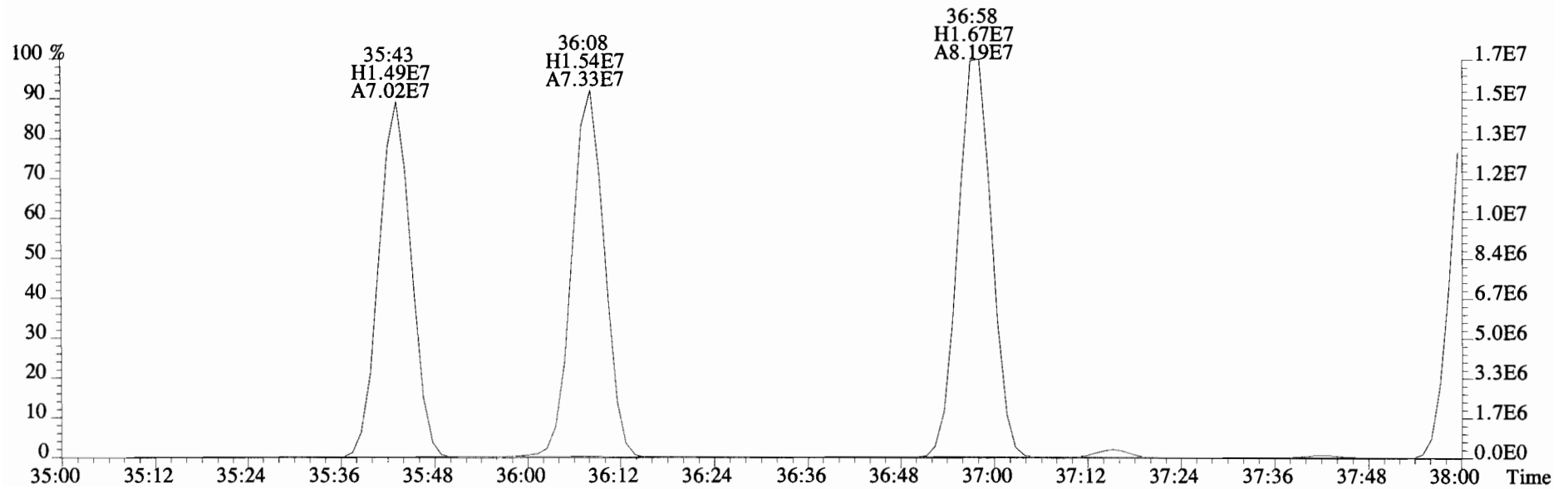
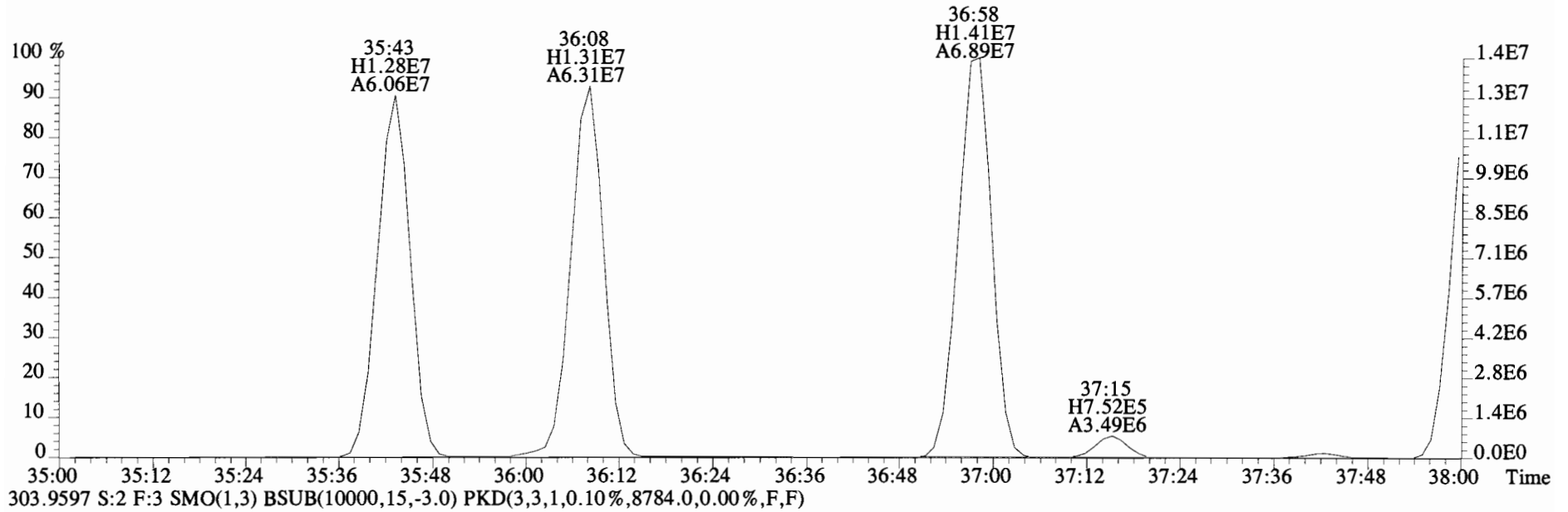




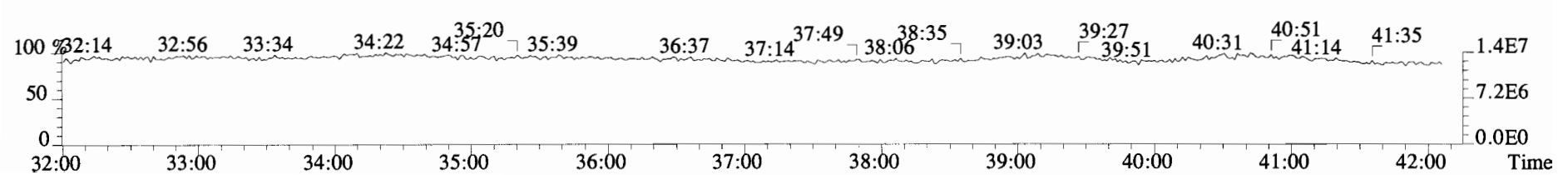
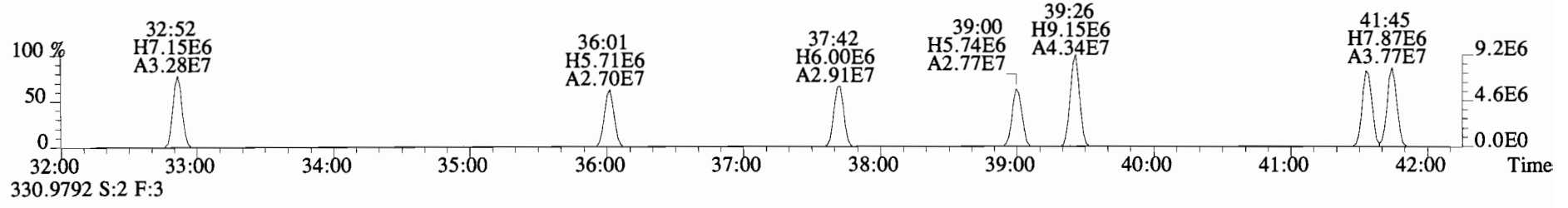
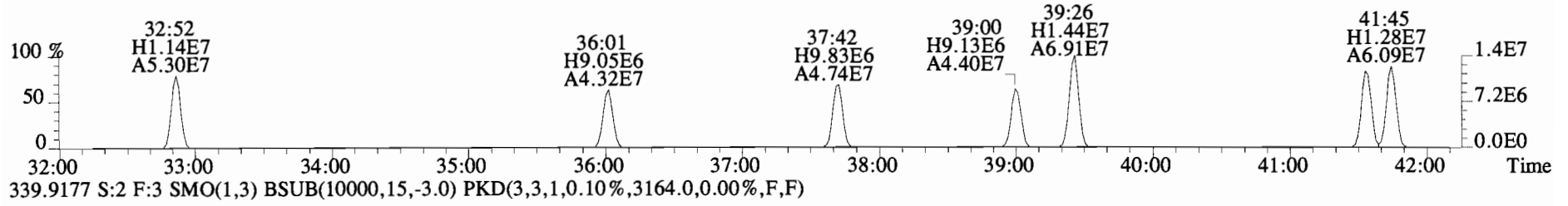
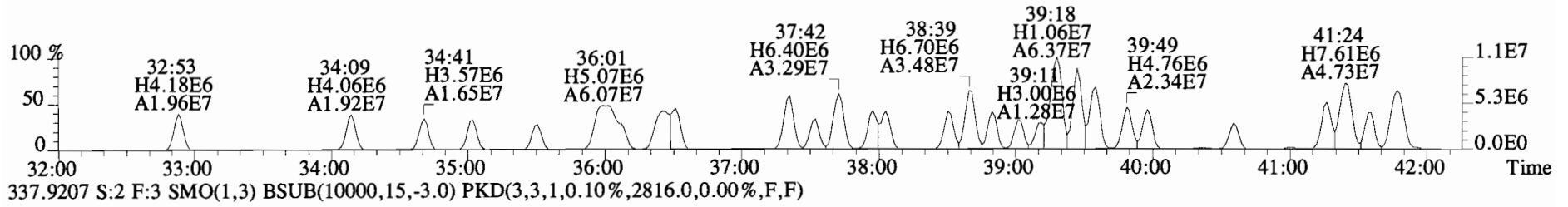
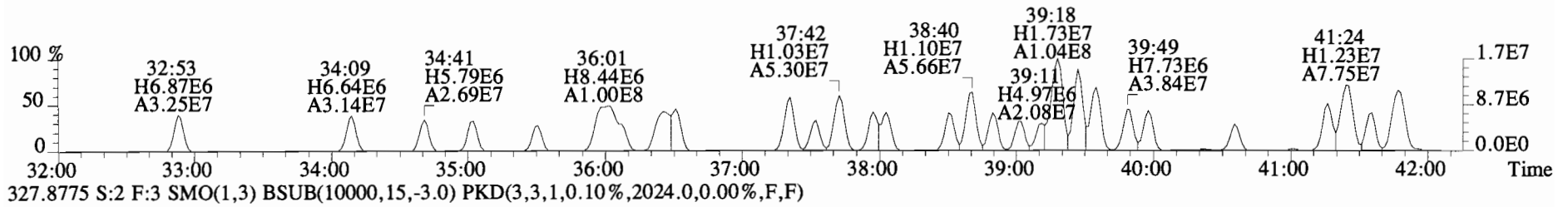
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3856.0,0.00%,F,F)



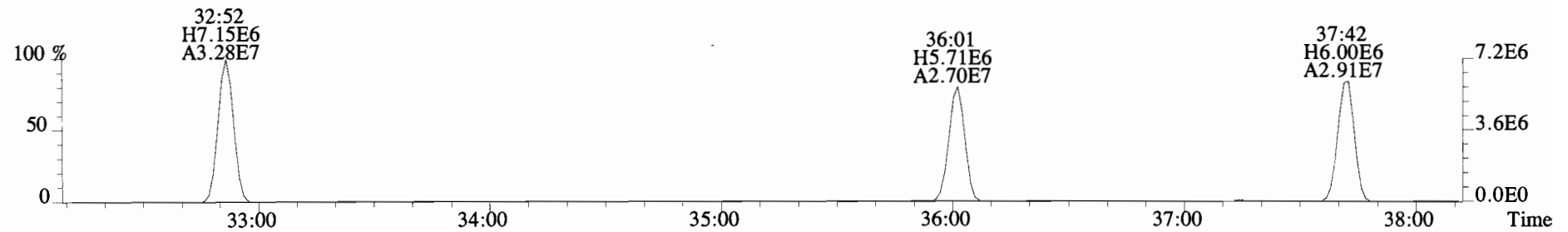
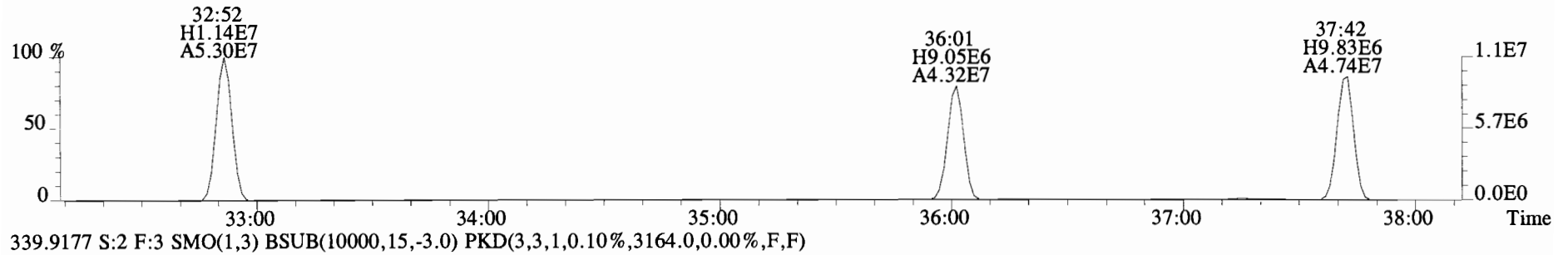
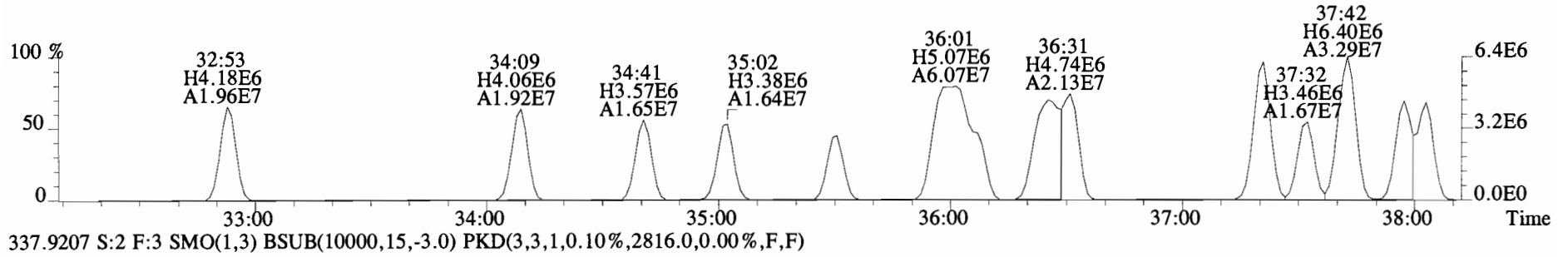
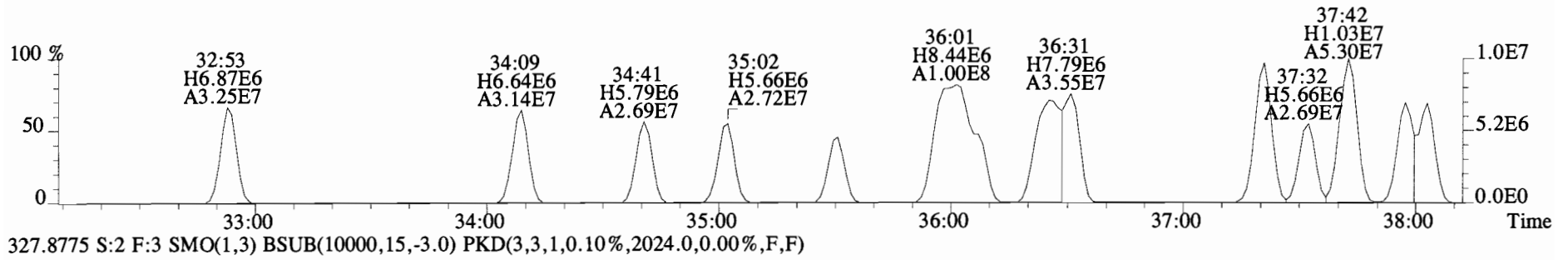
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10196.0,0.00%,F,F)



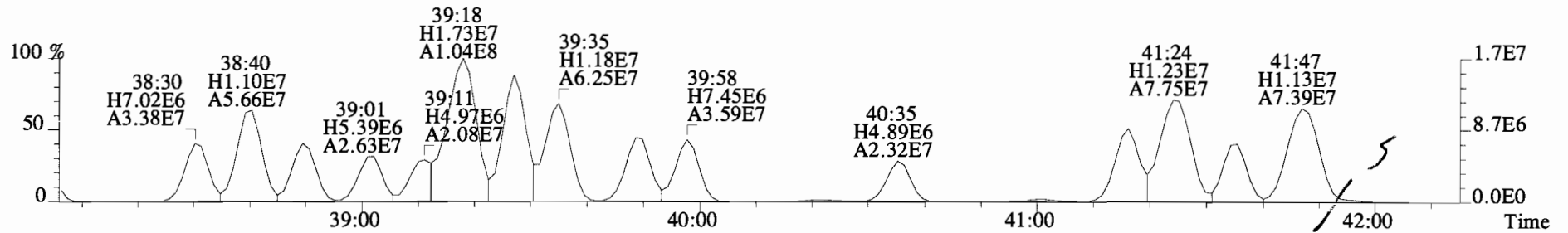
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)



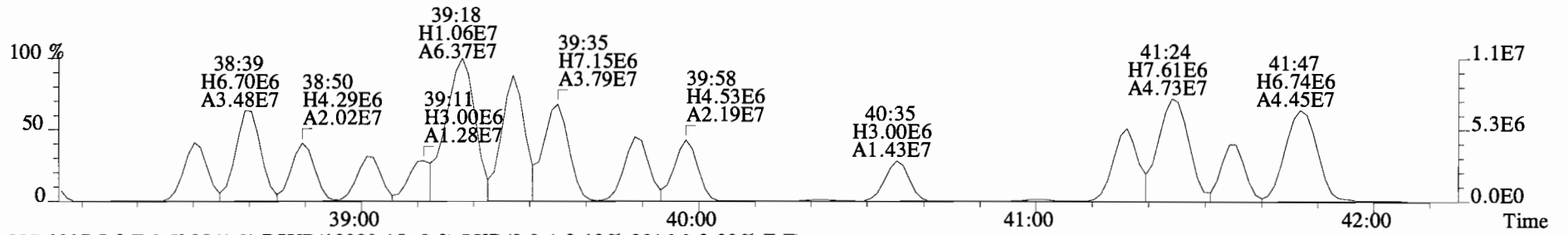
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)



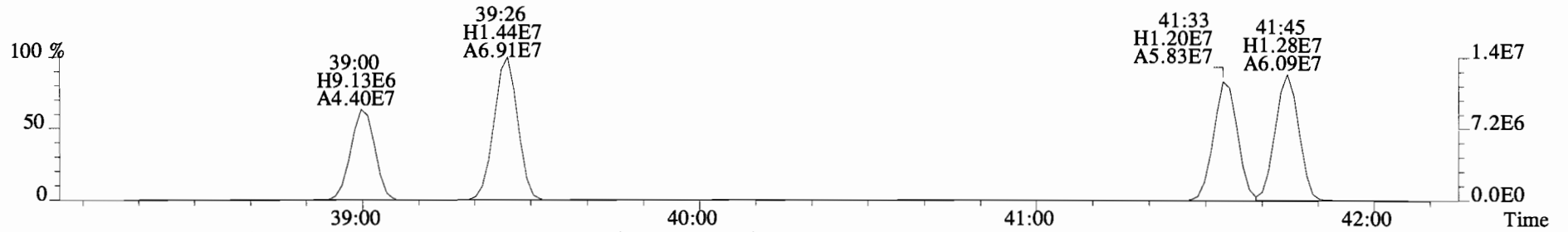
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0032-BS1 OPR Exp: PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)



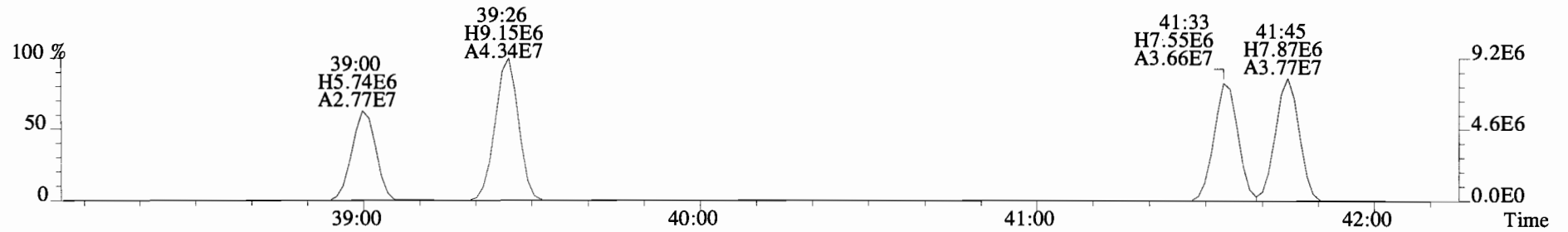
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2024.0,0.00%,F,F)



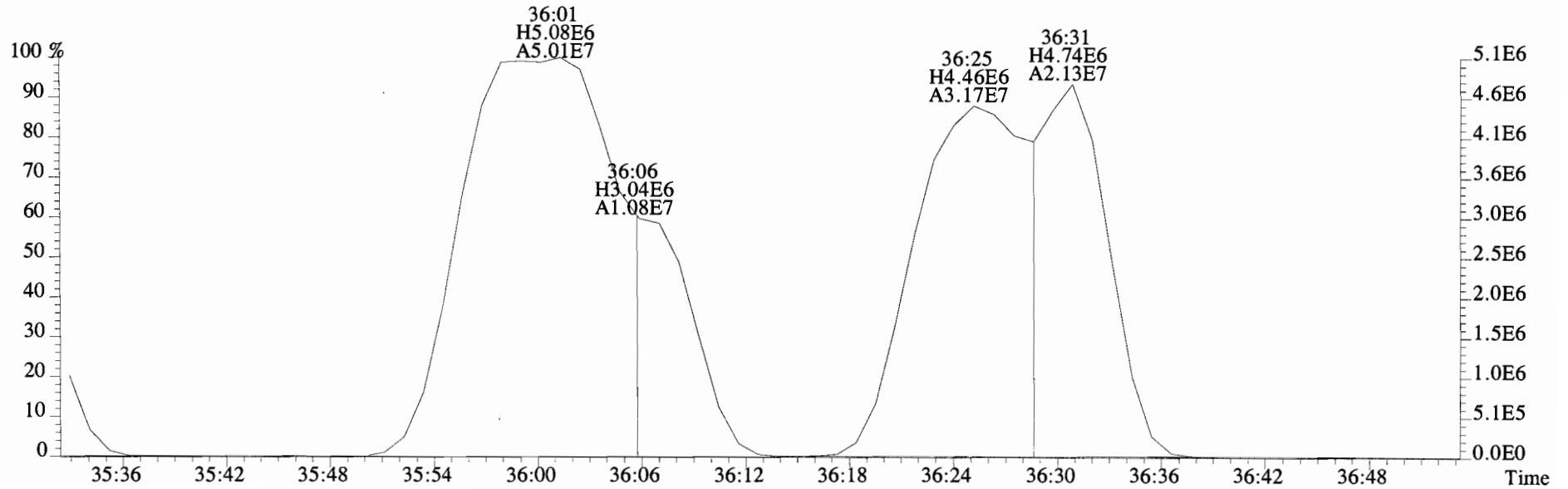
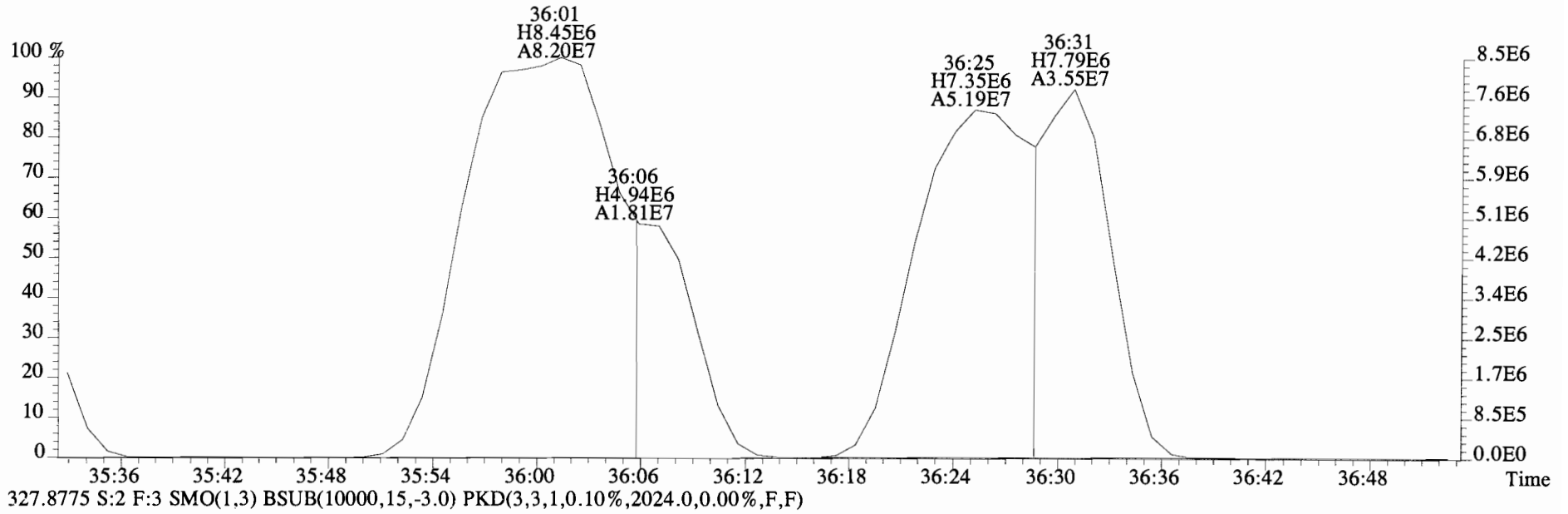
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



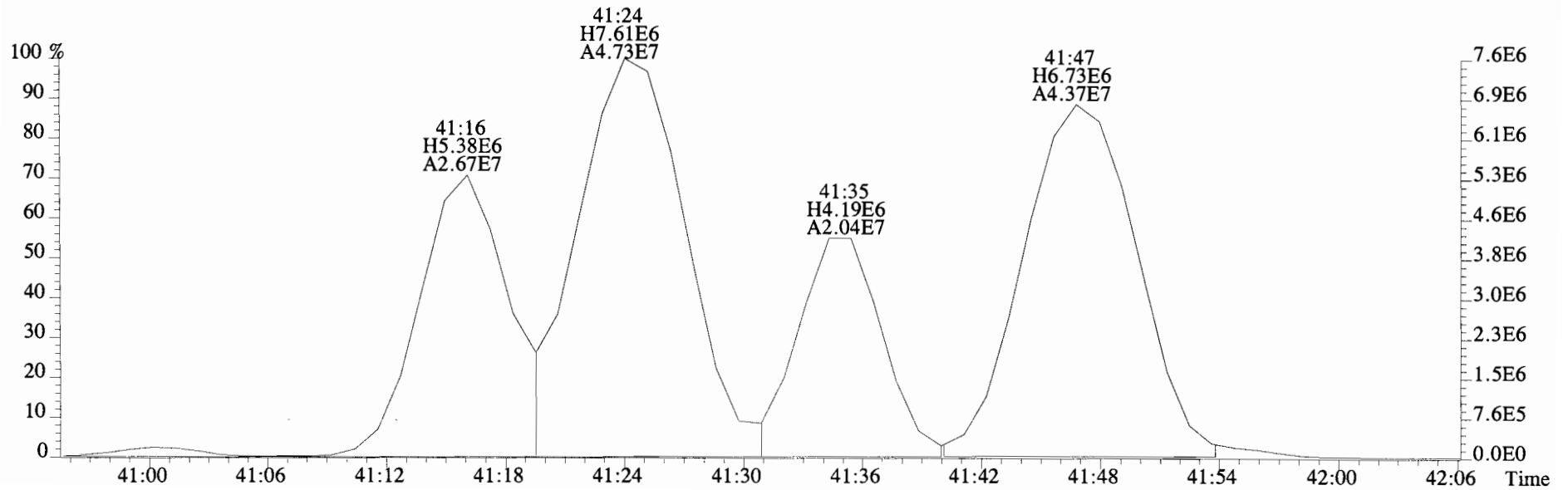
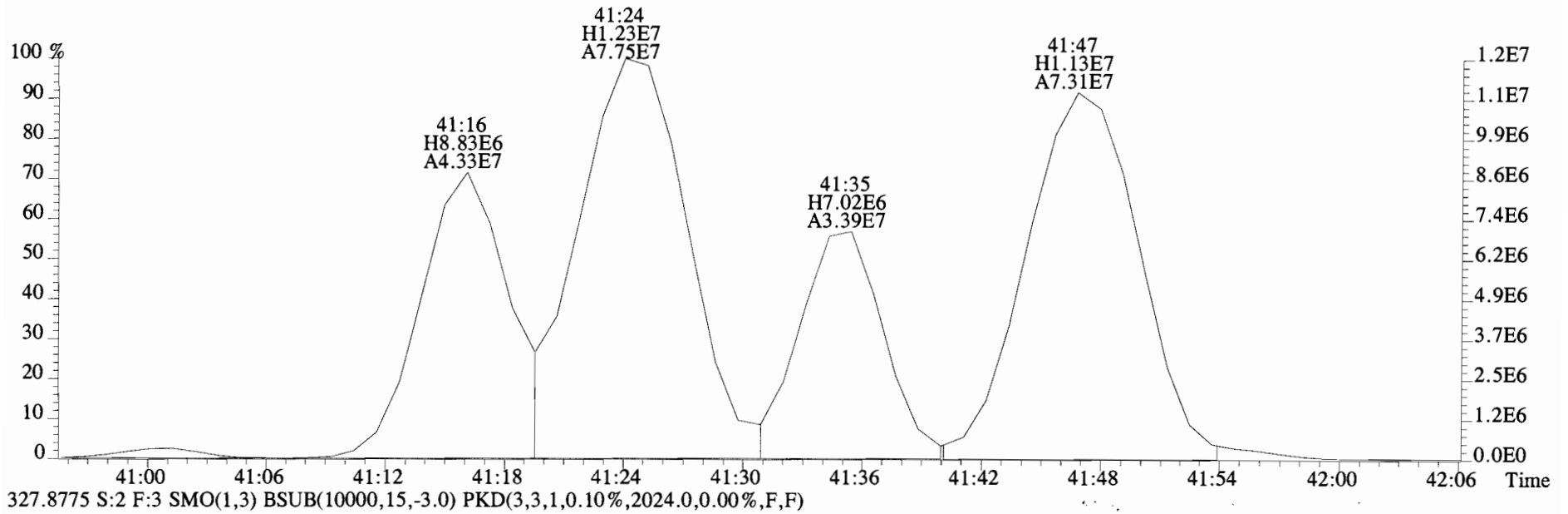
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3164.0,0.00%,F,F)



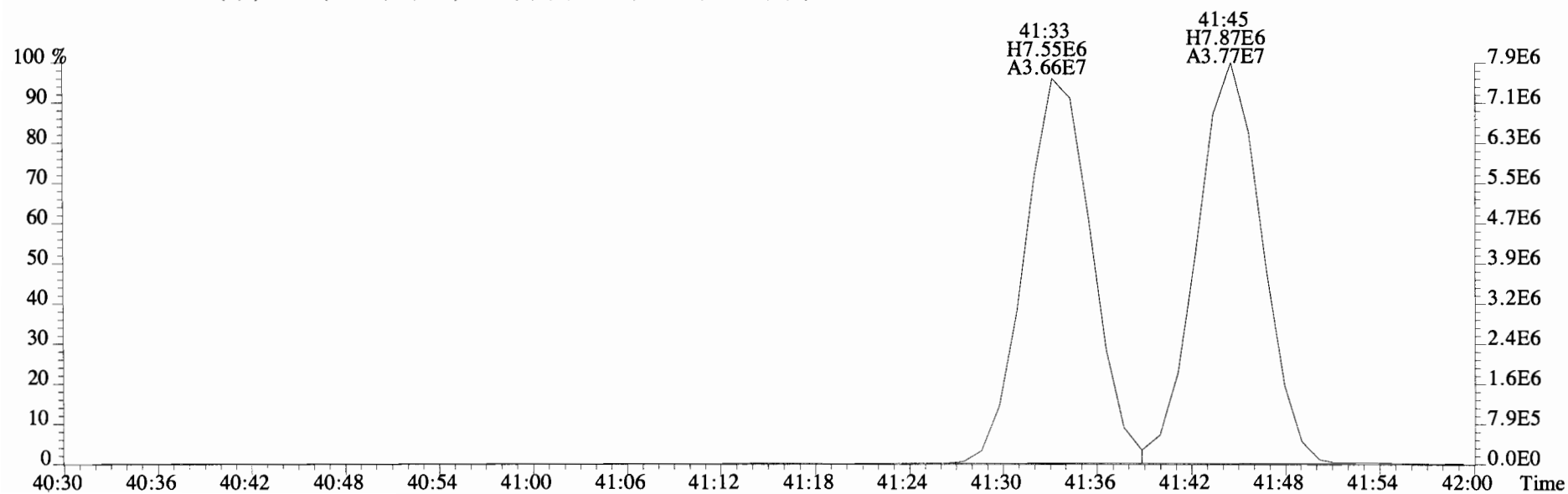
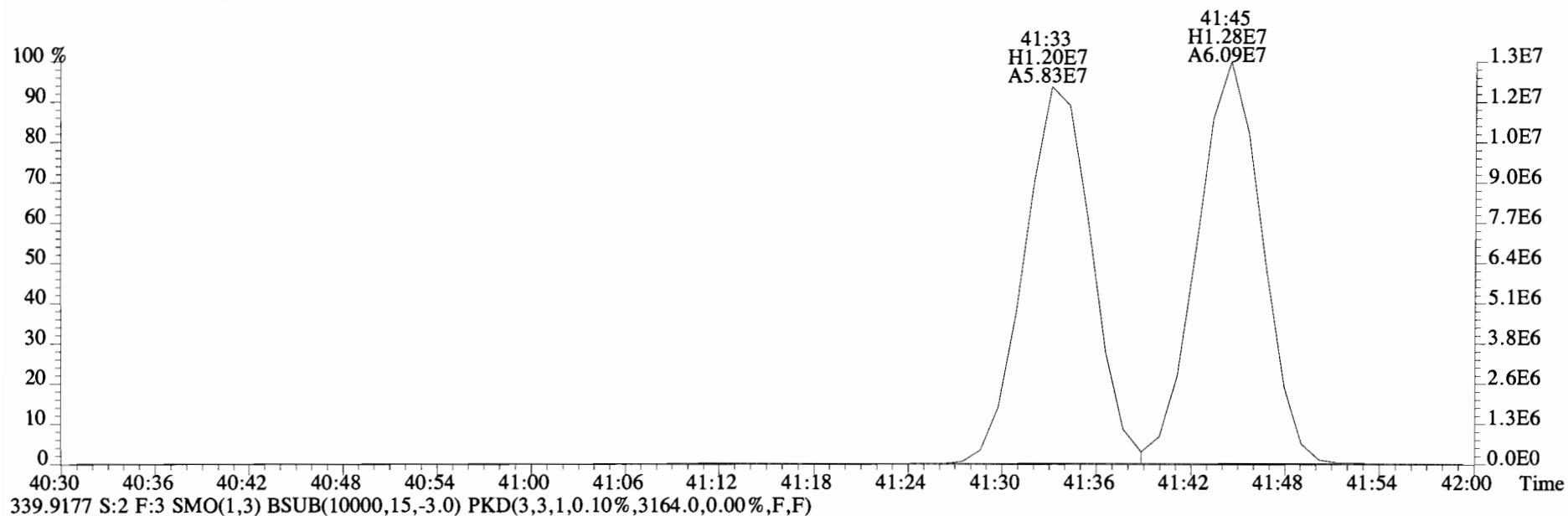
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)



File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)

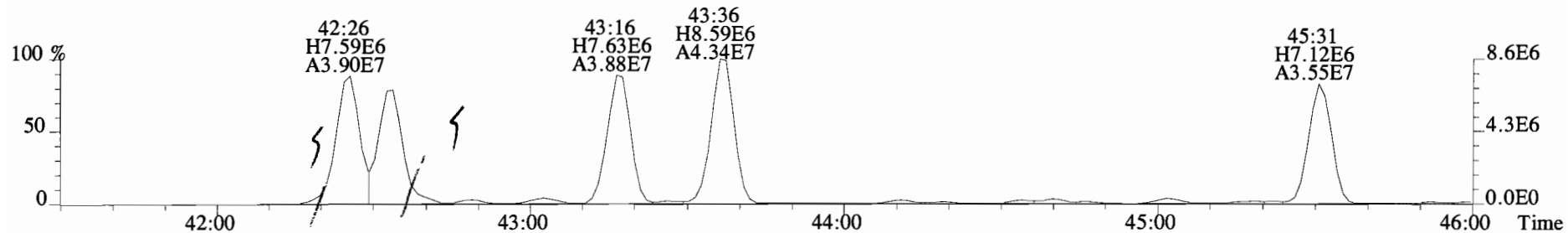


File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B410032-BS1 OPR Exp: PCB\_ZB1  
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)

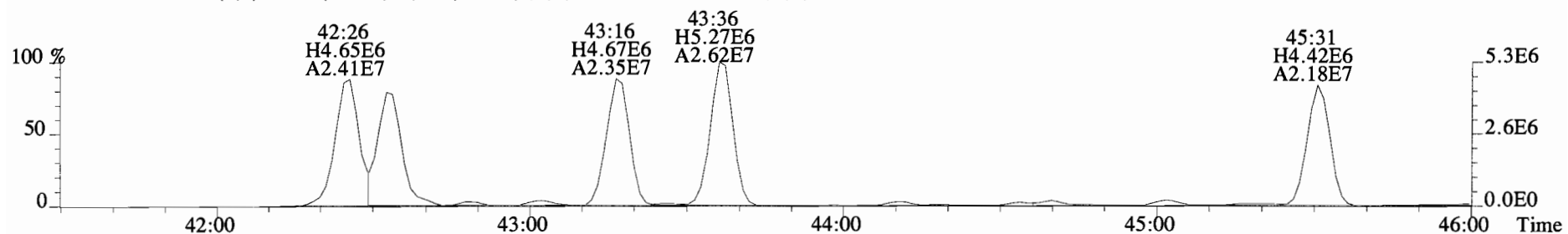




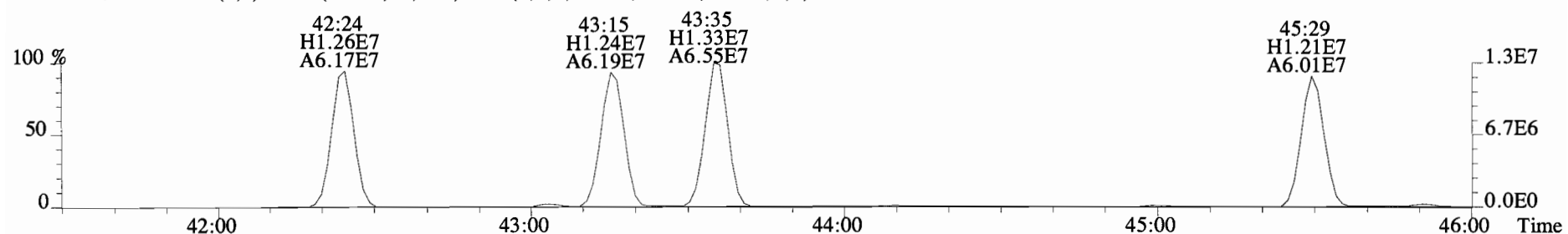
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11616.0,0.00%,F,F)



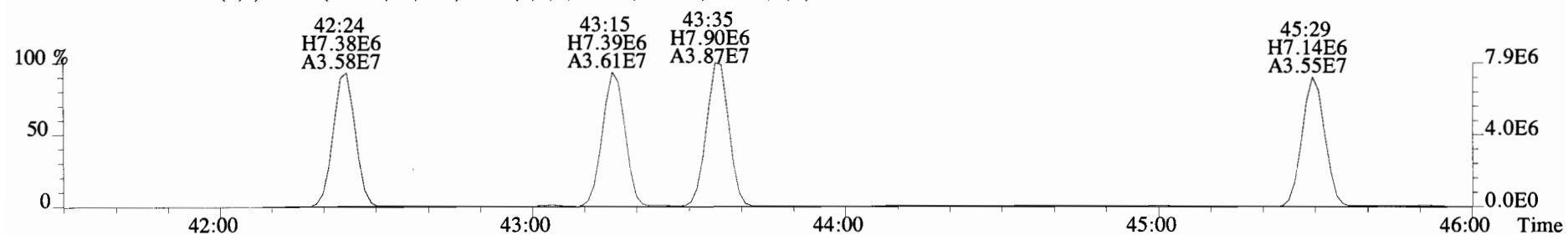
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9176.0,0.00%,F,F)



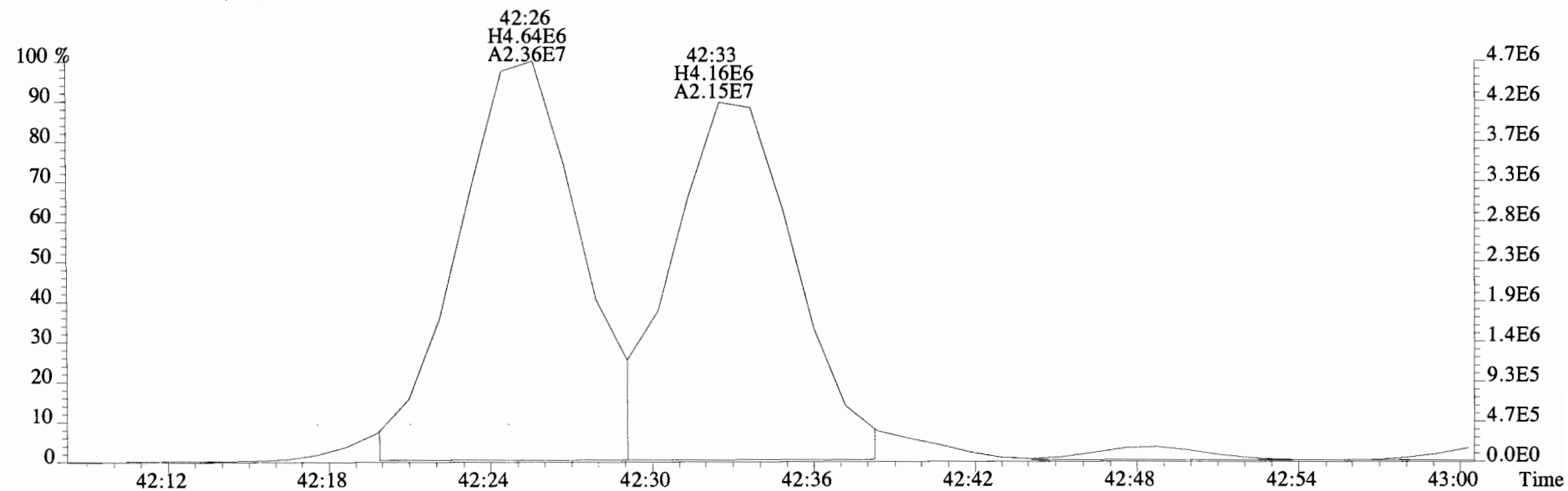
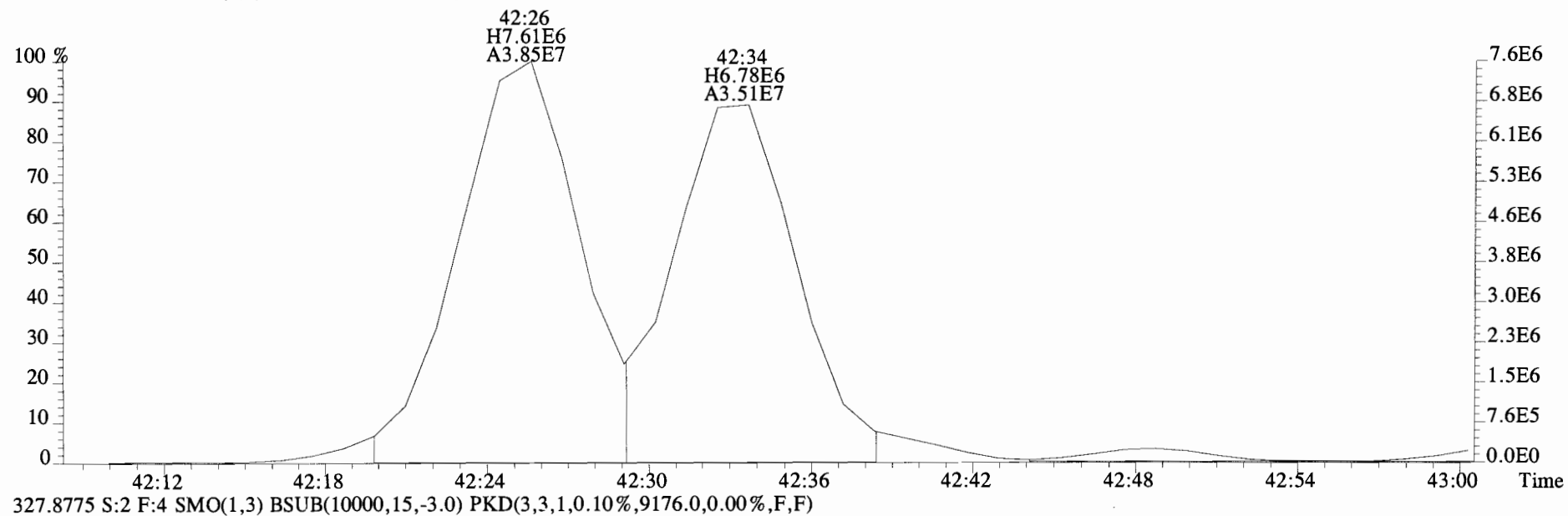
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8356.0,0.00%,F,F)



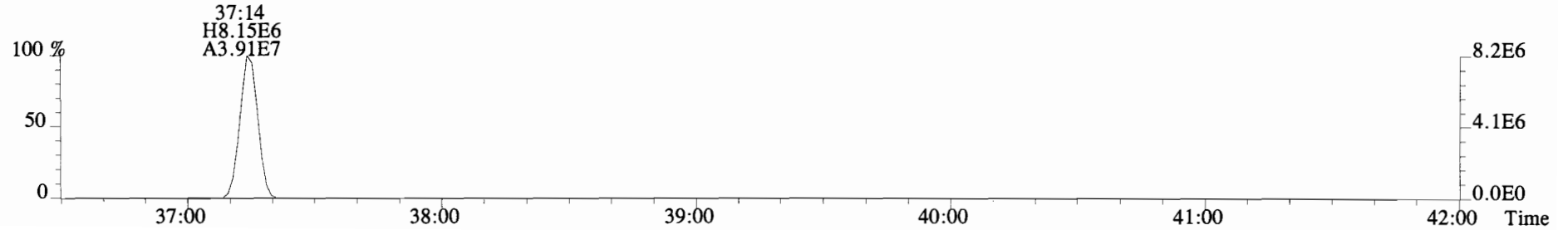
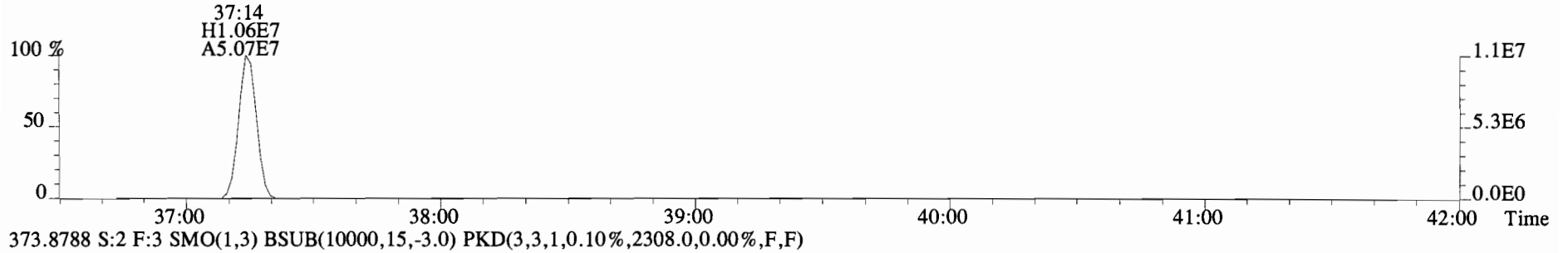
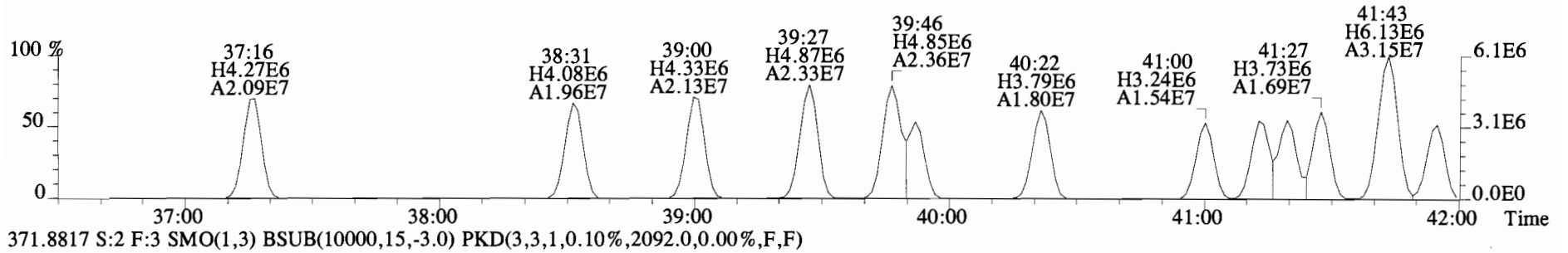
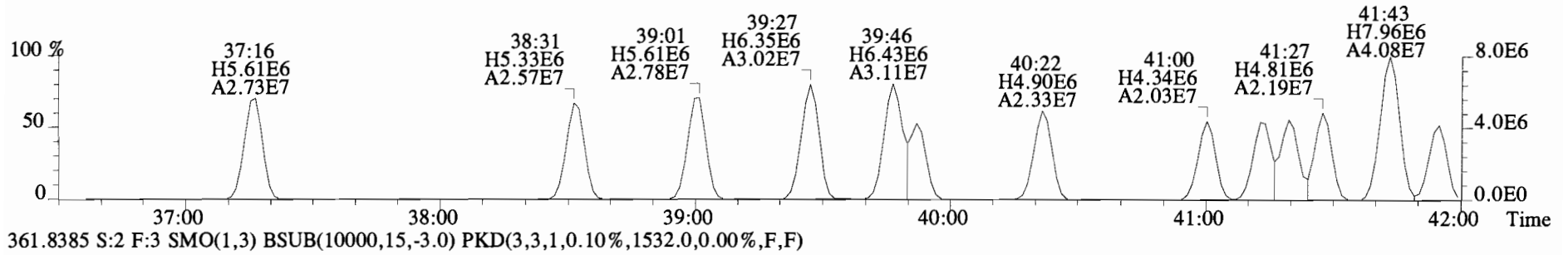
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6324.0,0.00%,F,F)



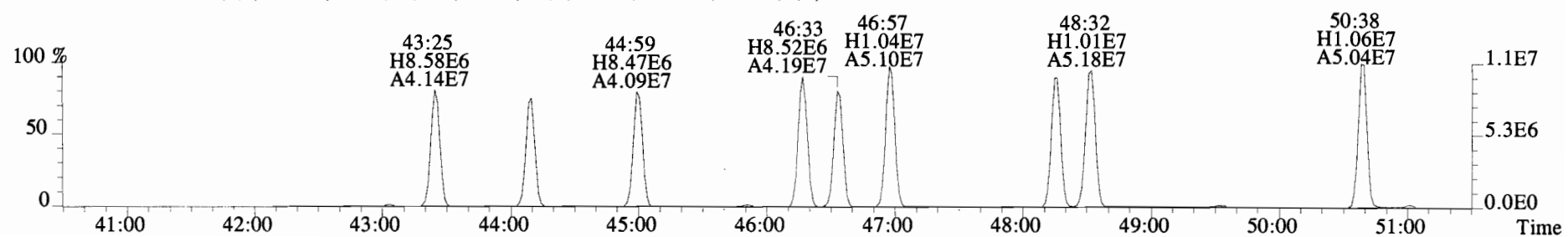
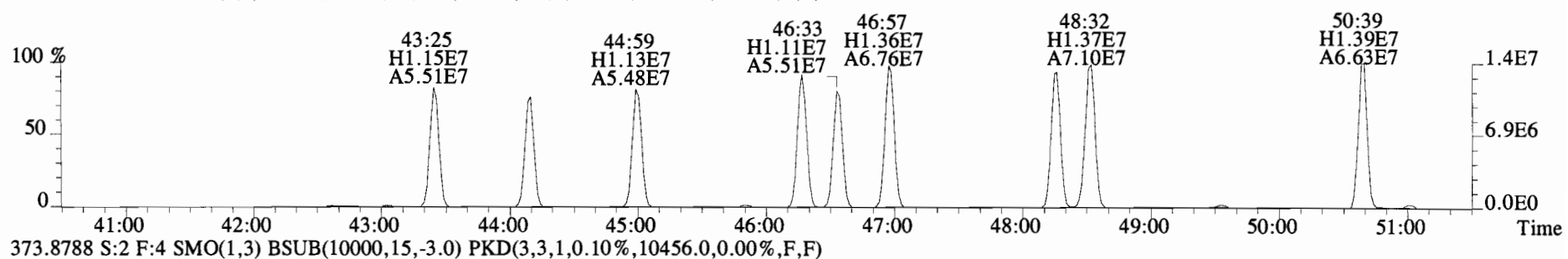
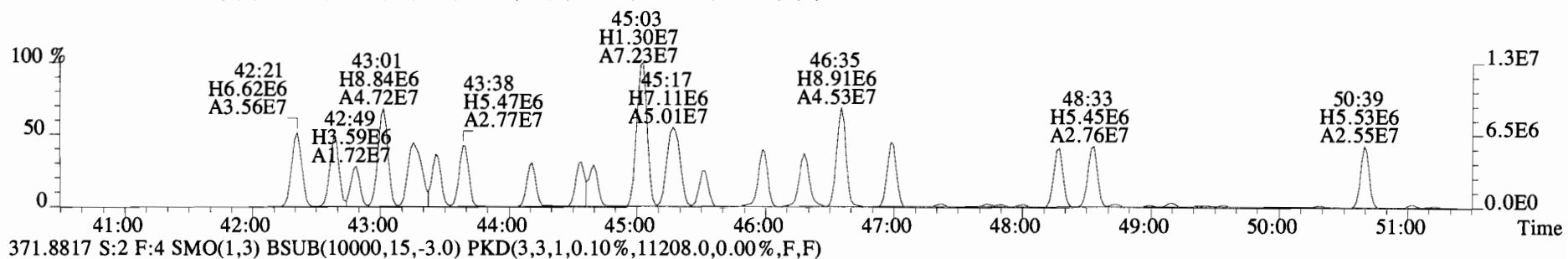
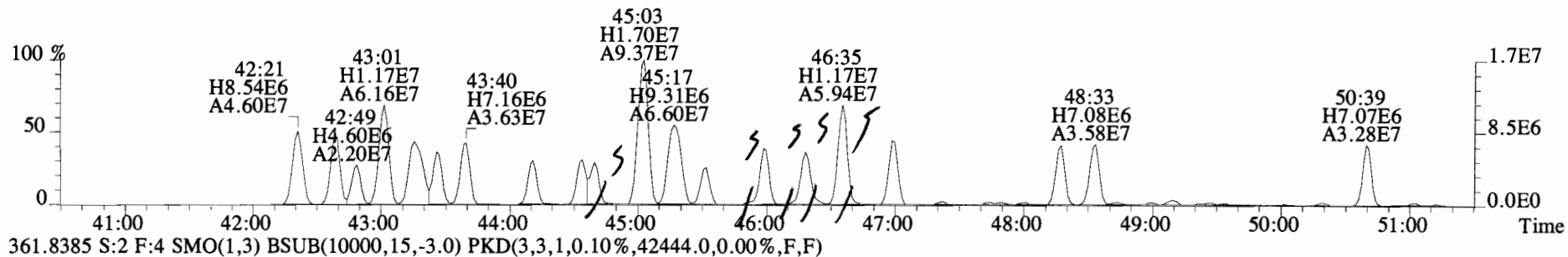
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B410032-BS1 OPR Exp:PCB ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11616.0,0.00%,F,F)



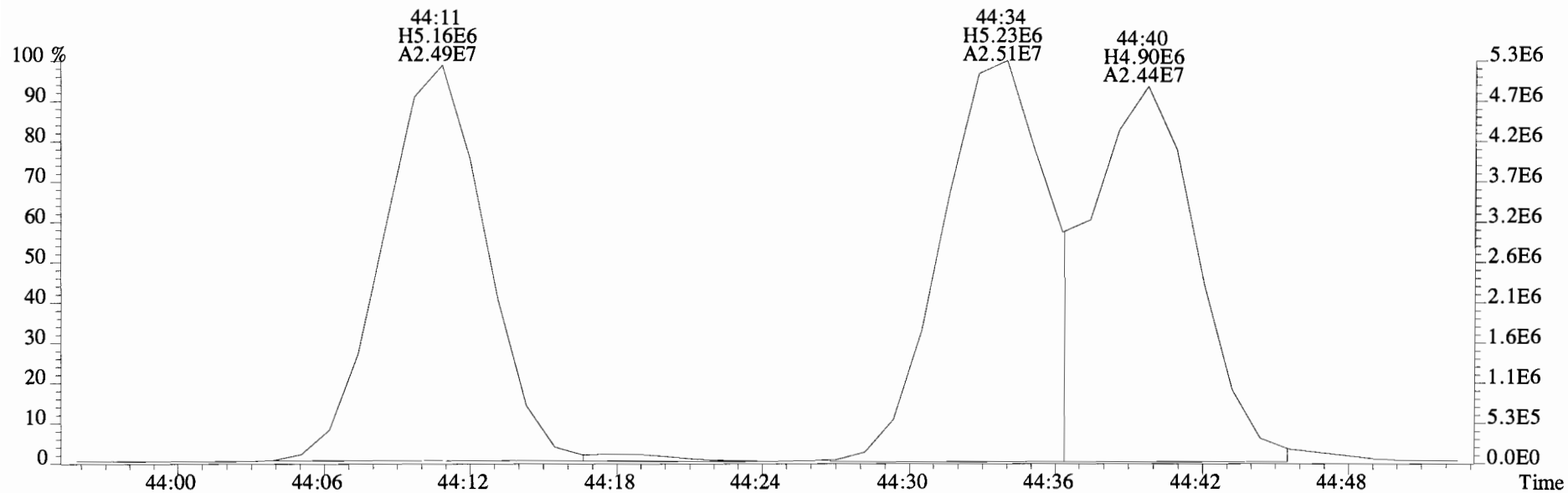
File:140919E2 #1-770 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



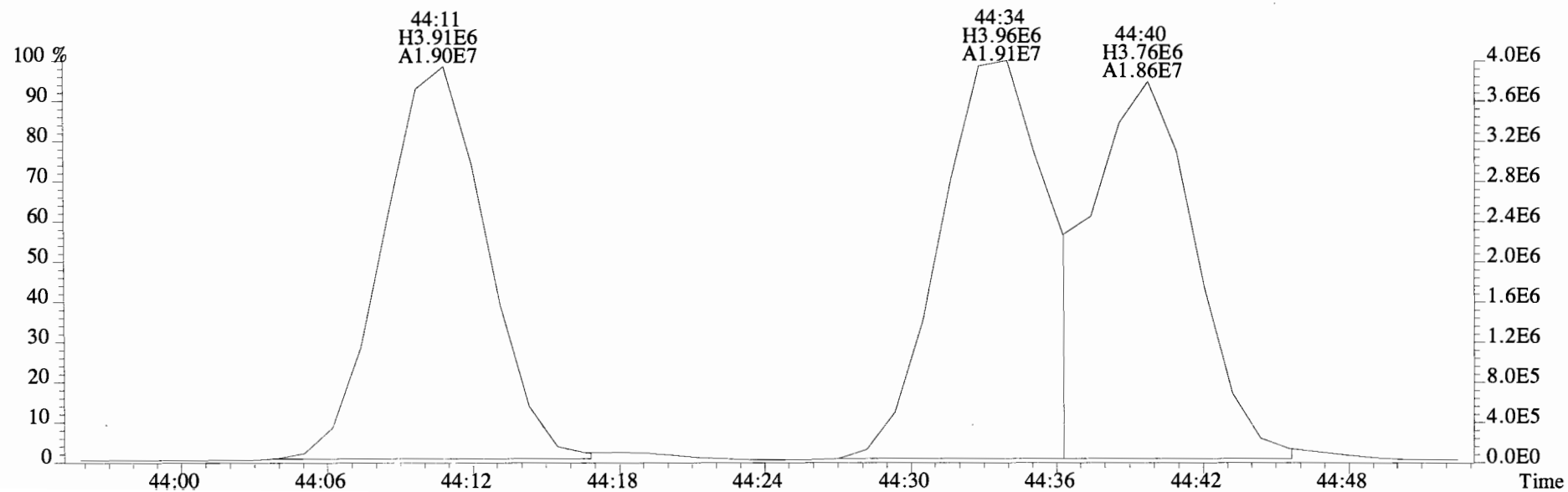
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55656.0,0.00%,F,F)



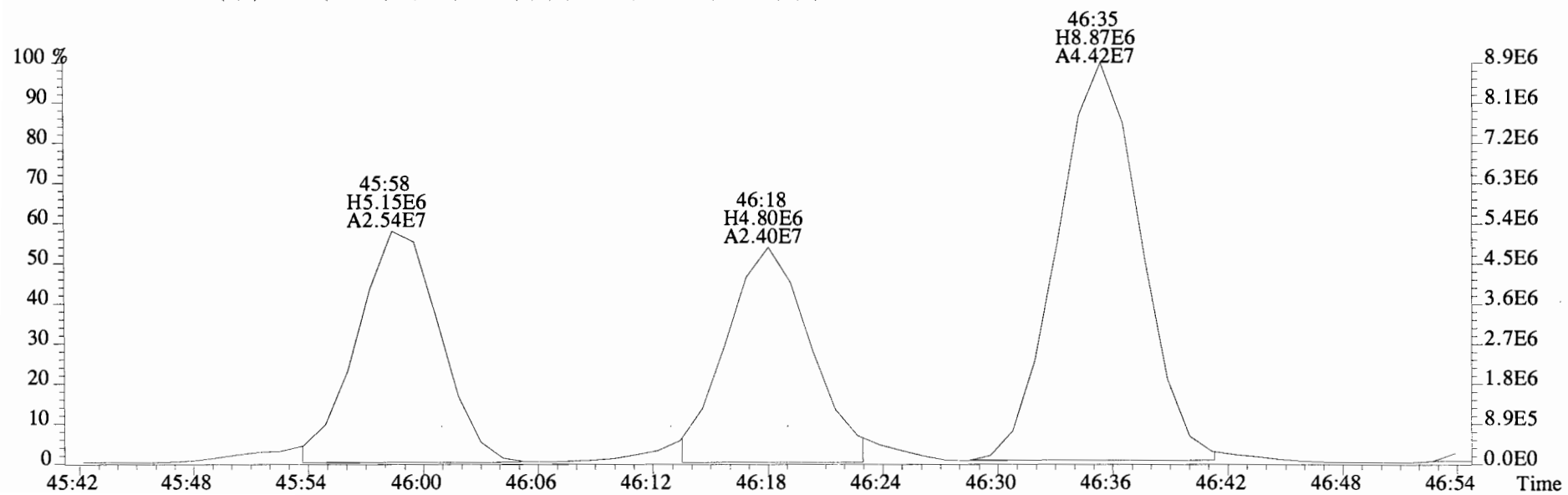
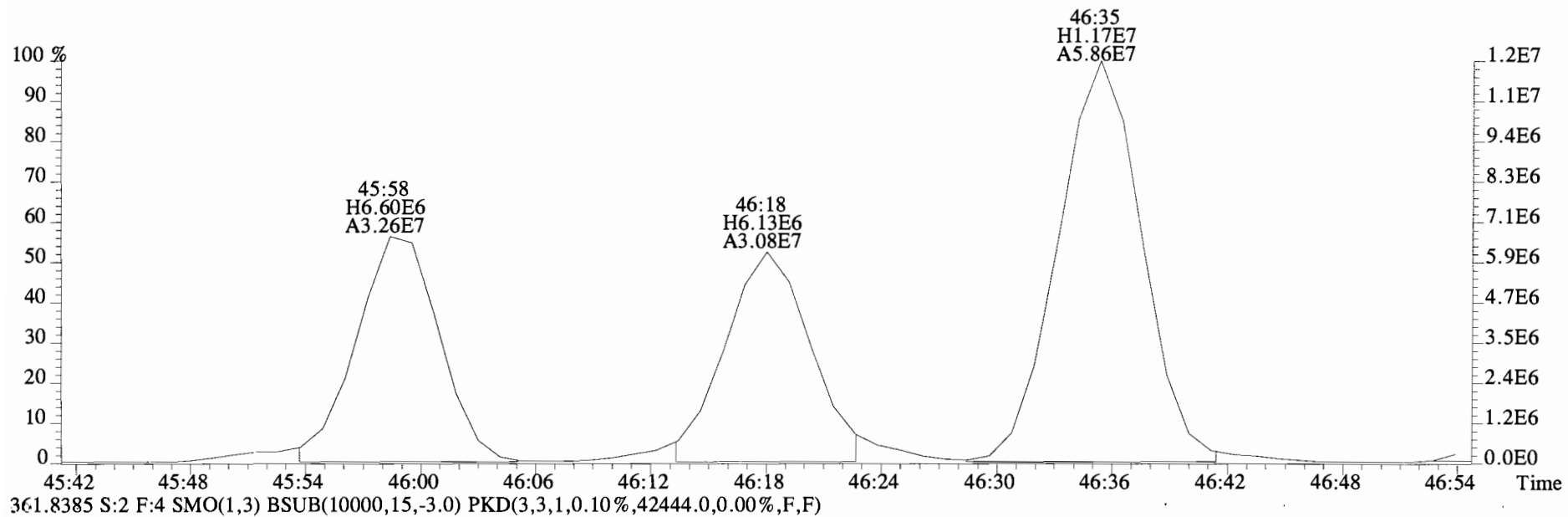
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55656.0,0.00%,F,F)



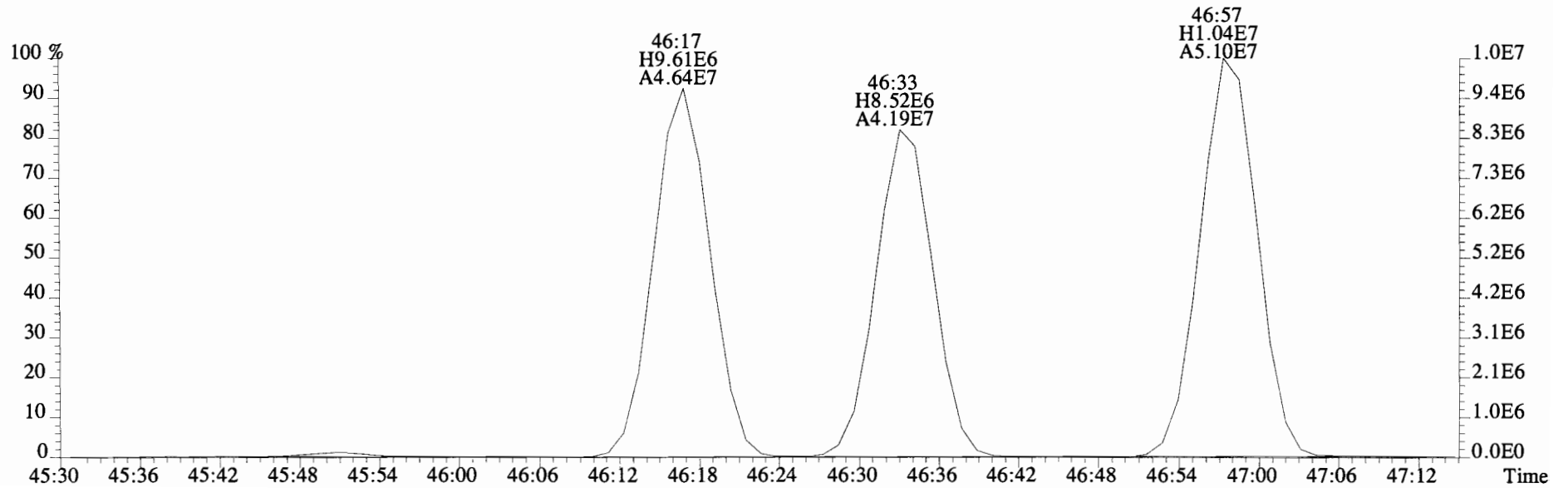
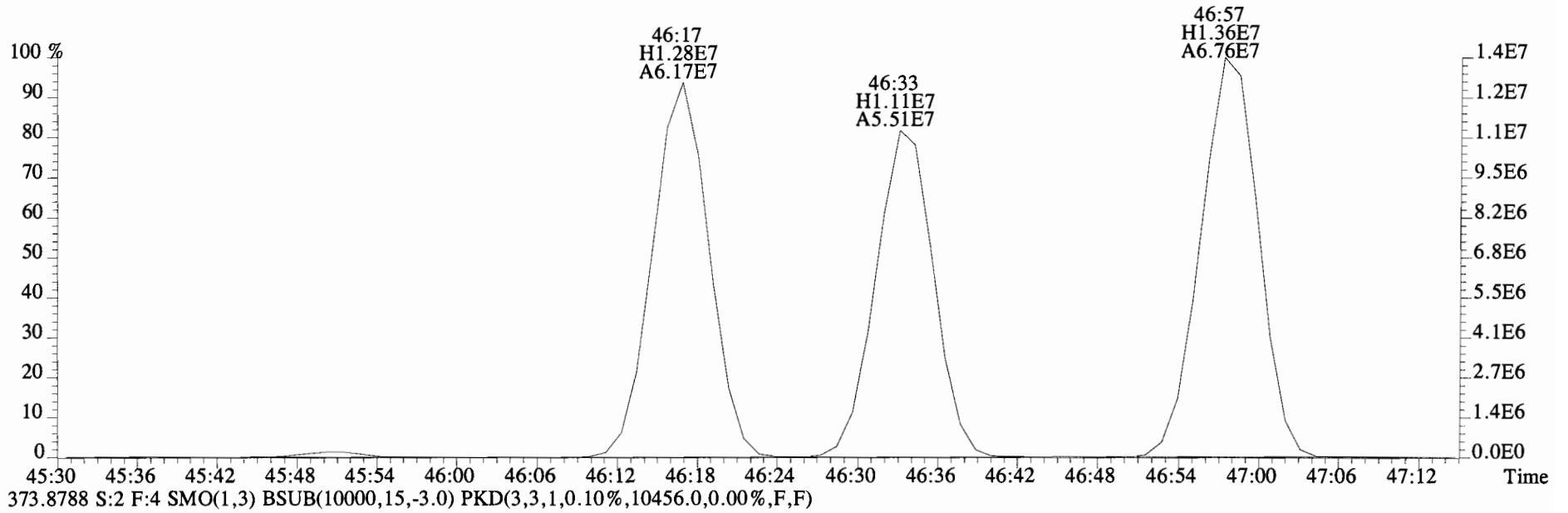
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42444.0,0.00%,F,F)



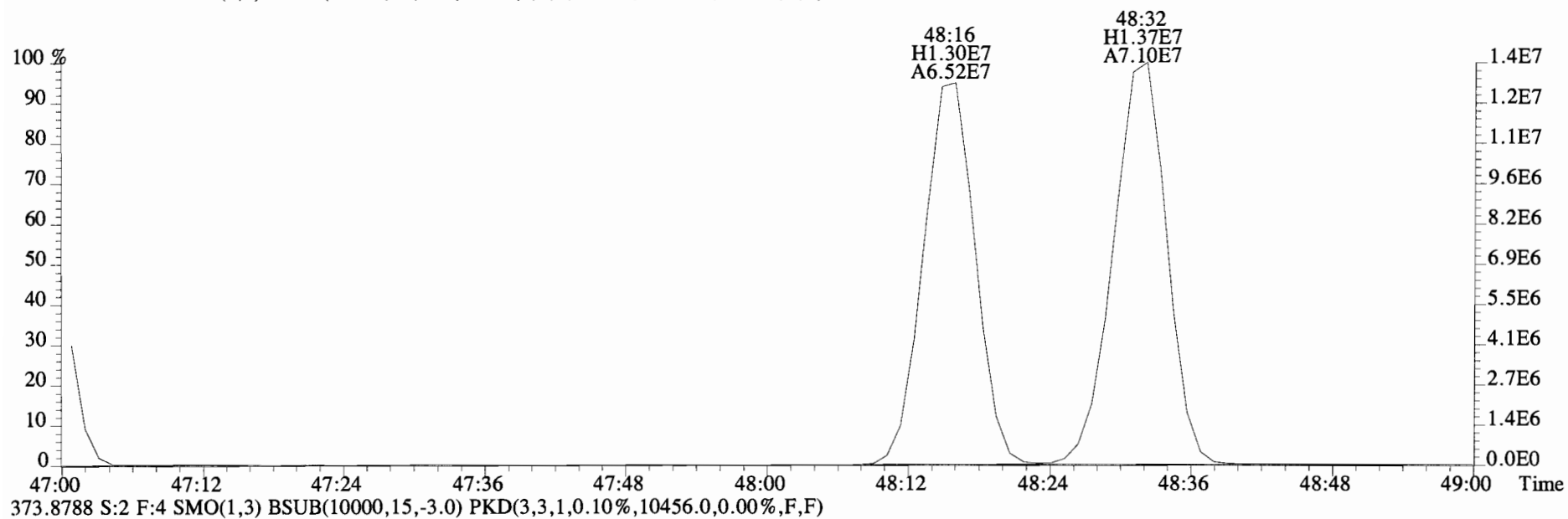
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55656.0,0.00%,F,F)



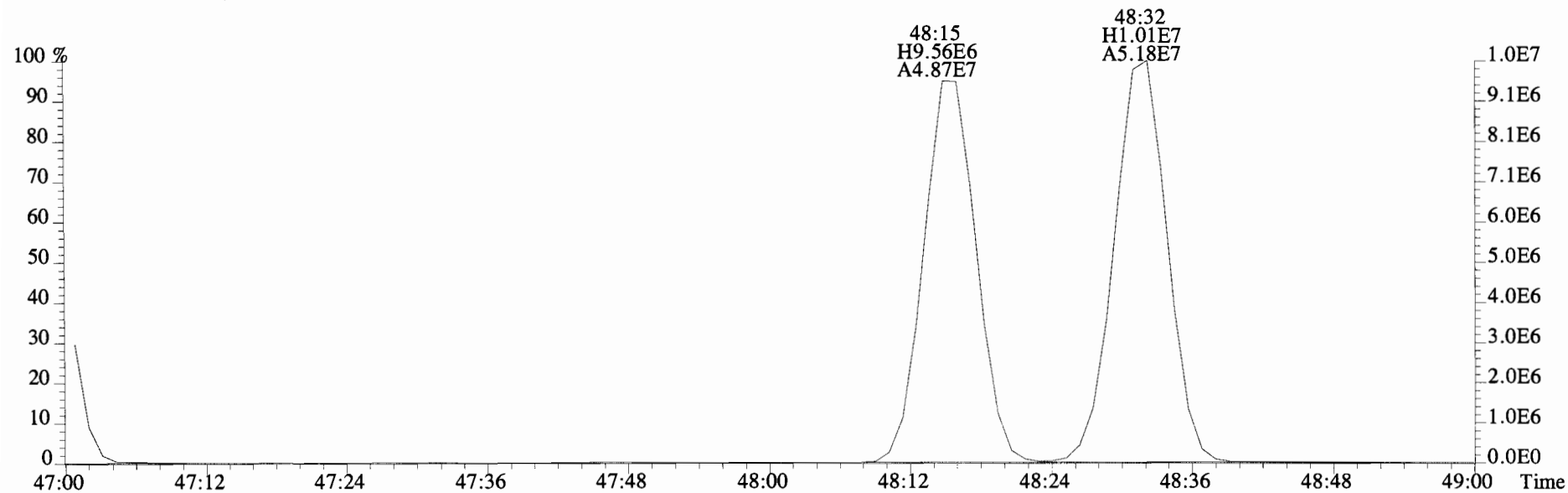
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0032-BS1 OPR Exp: PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11208.0,0.00%,F,F)



File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11208.0,0.00%,F,F)

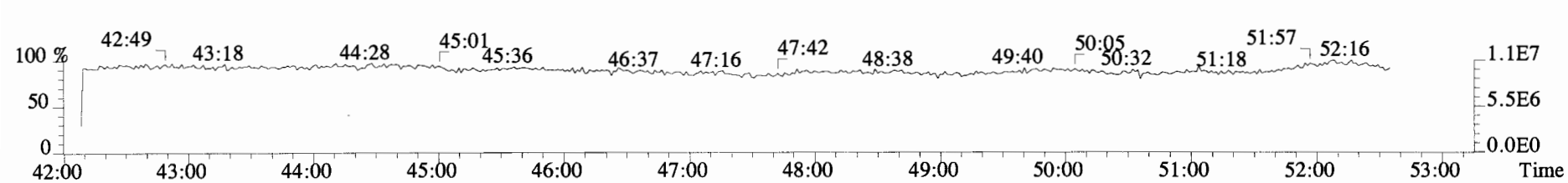
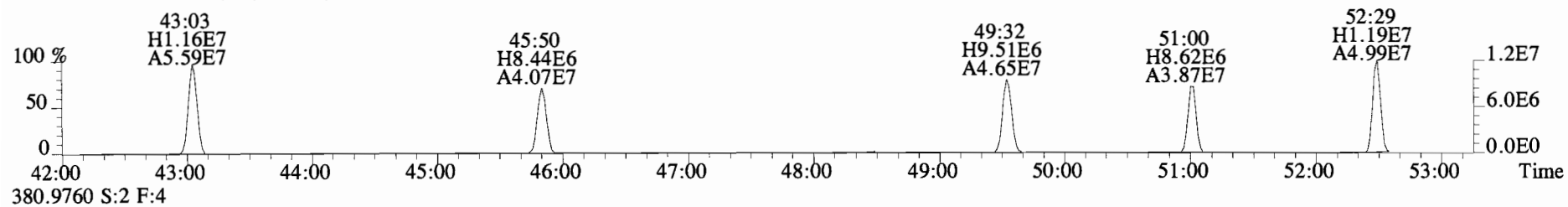
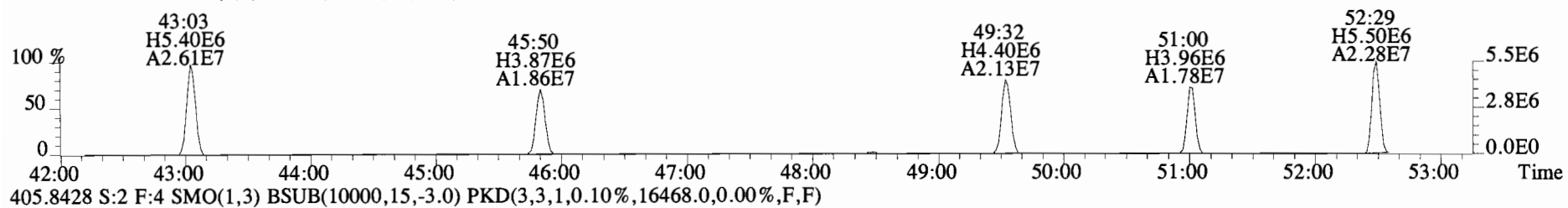
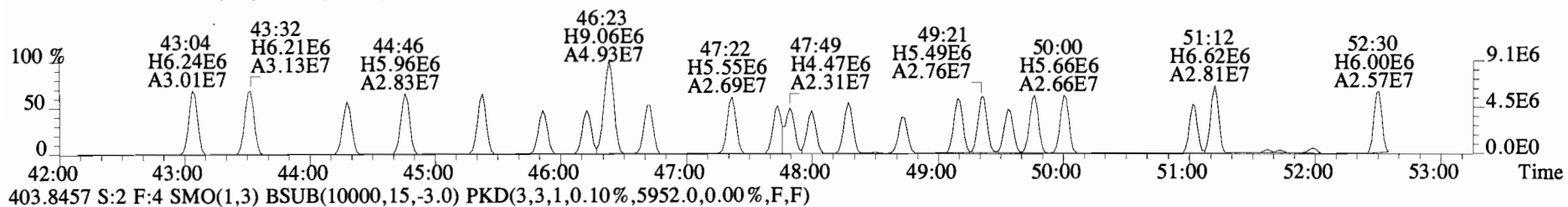
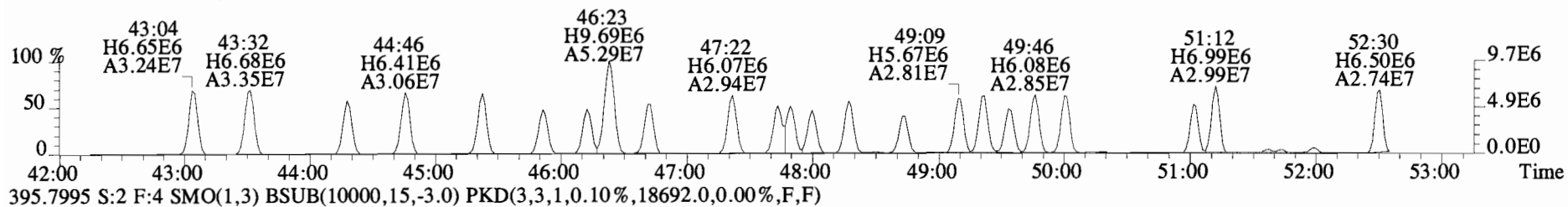


373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10456.0,0.00%,F,F)

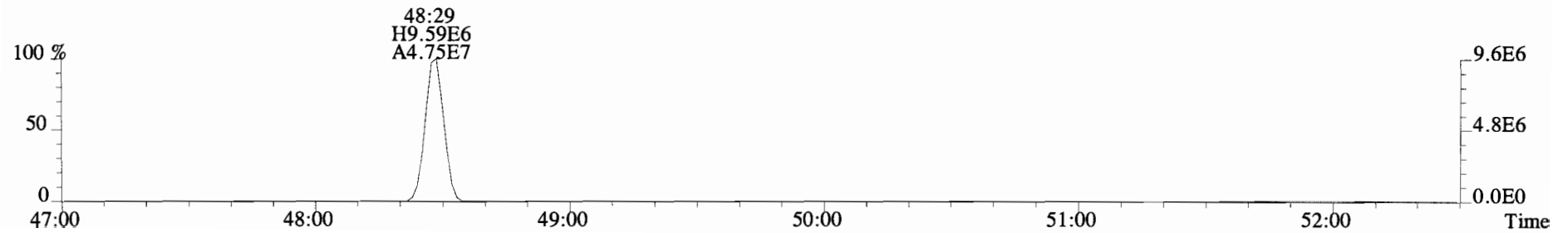
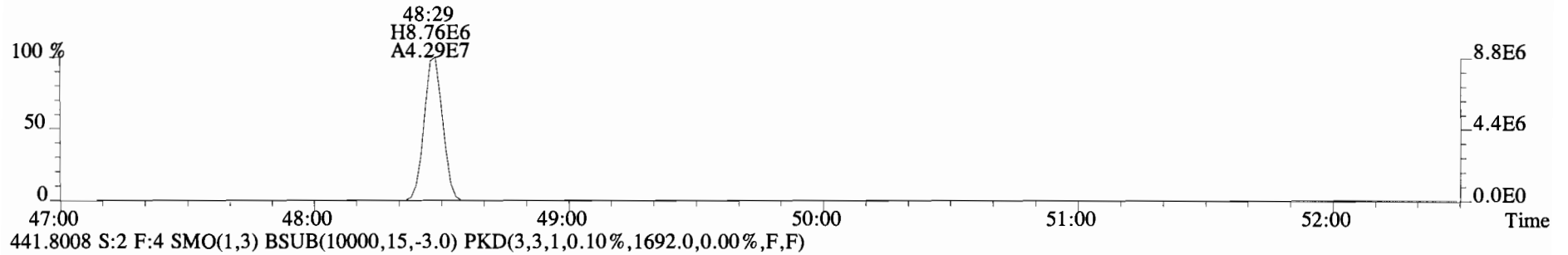
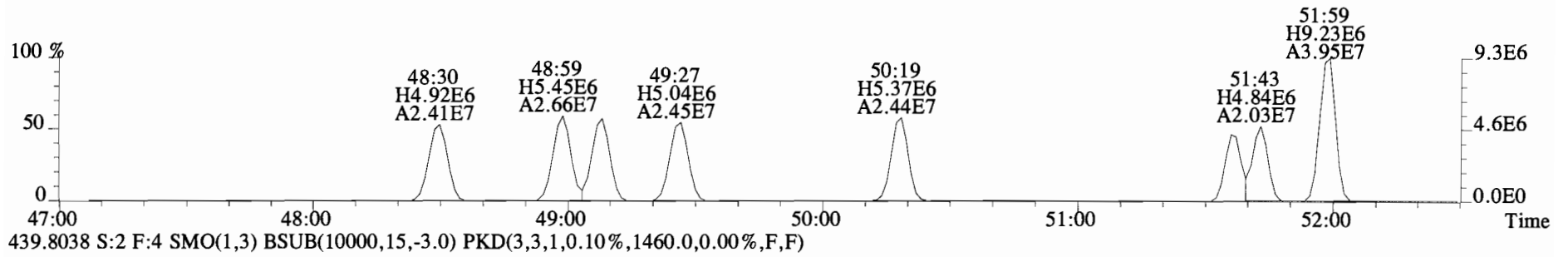
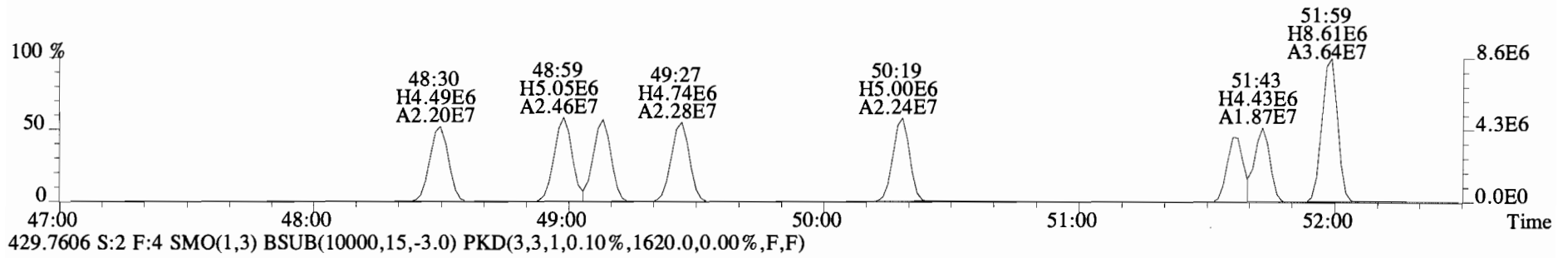




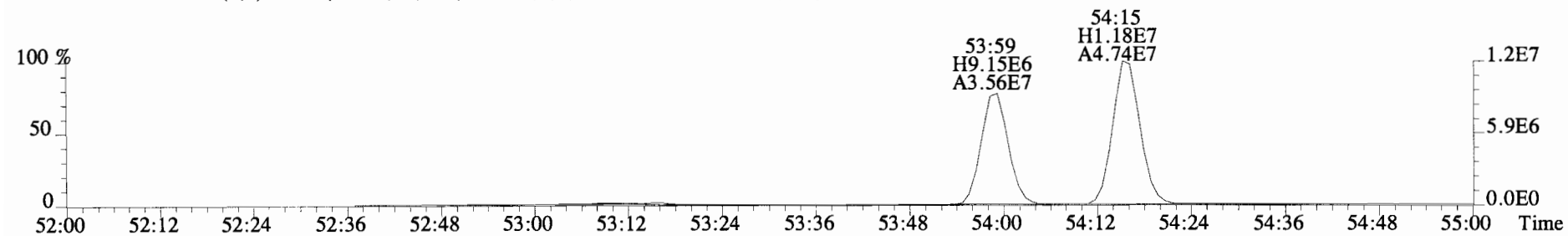
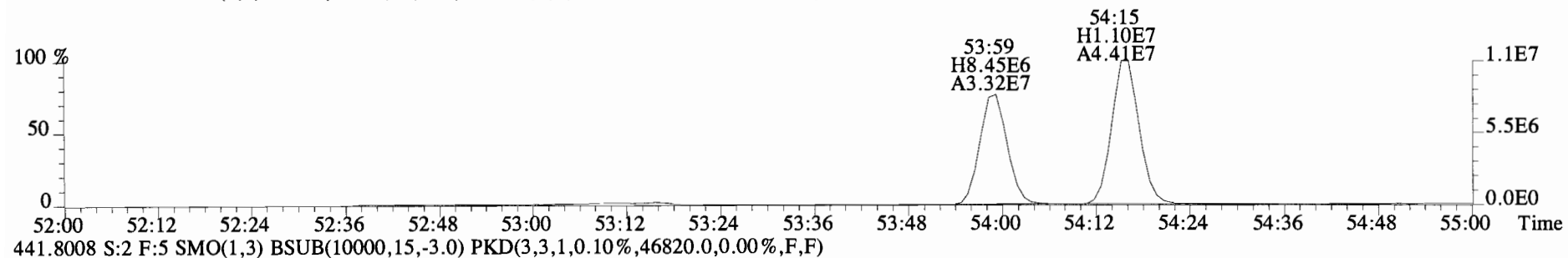
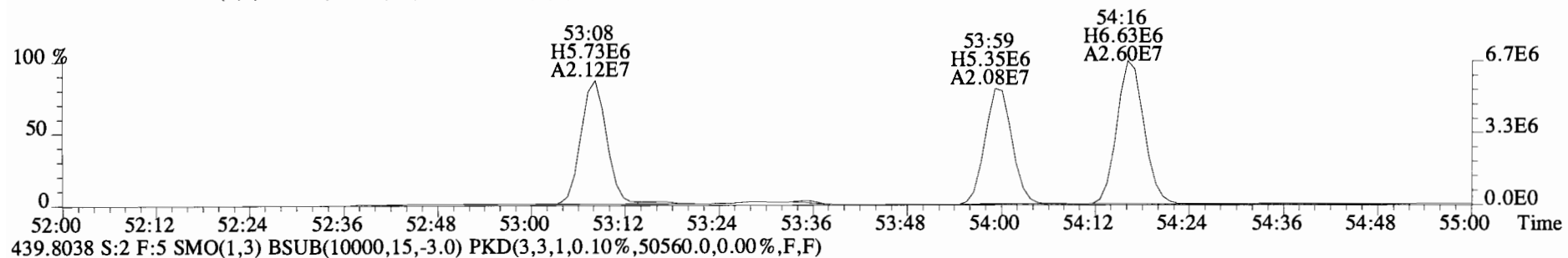
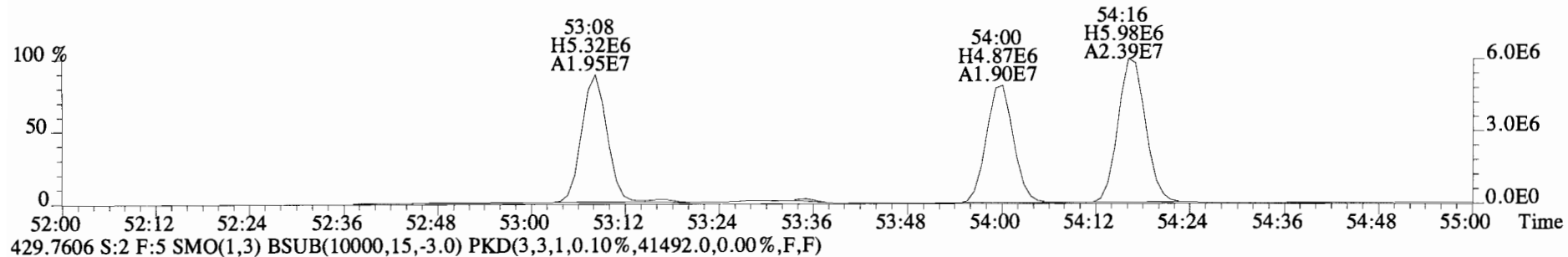
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17196.0,0.00%,F,F)



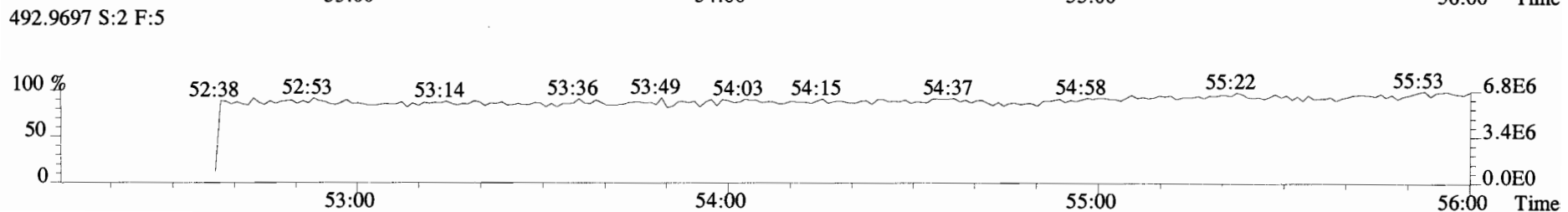
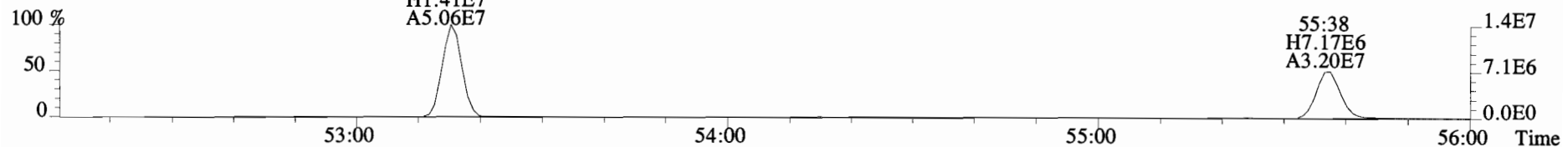
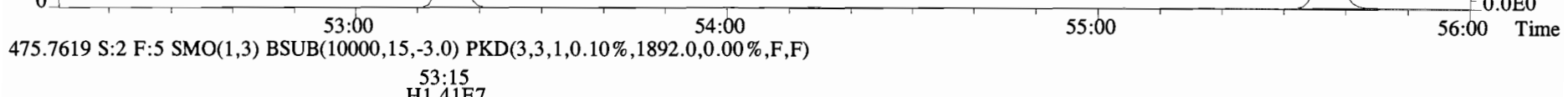
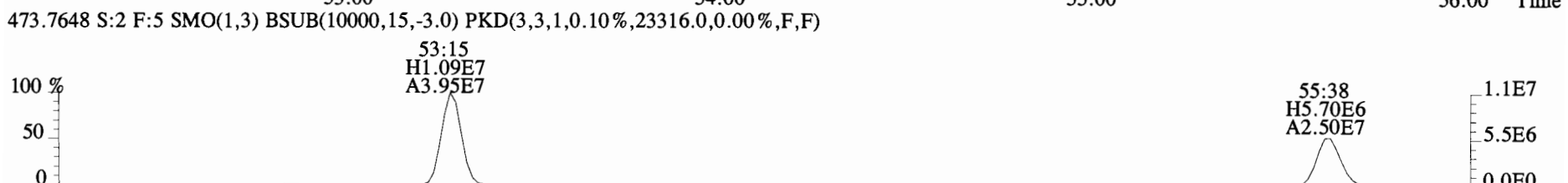
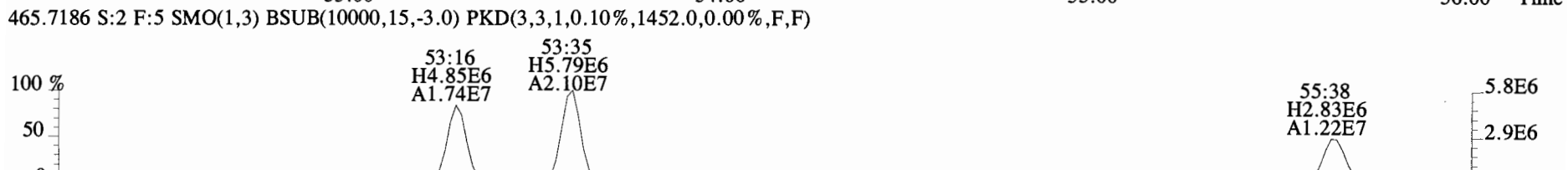
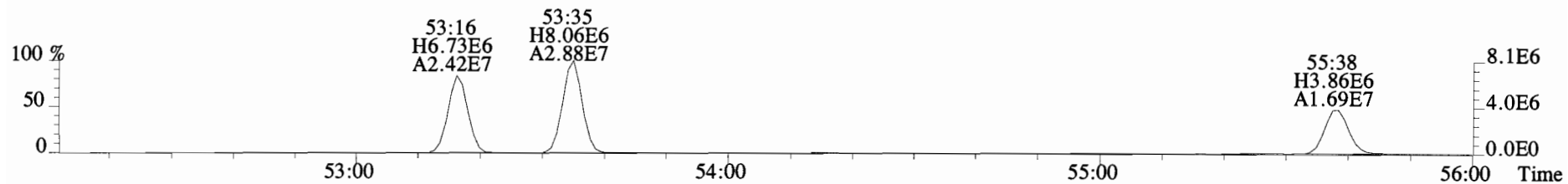
File:140919E2 #1-543 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1480.0,0.00%,F,F)



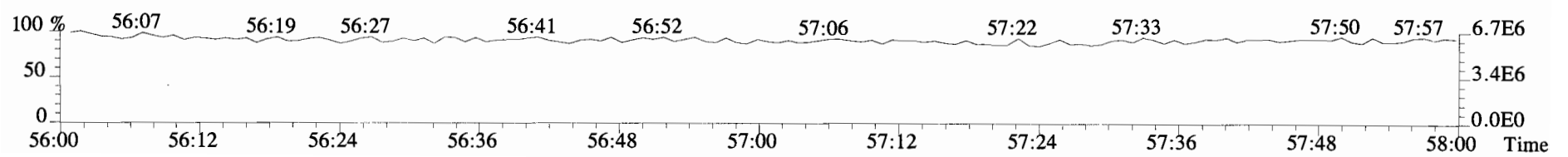
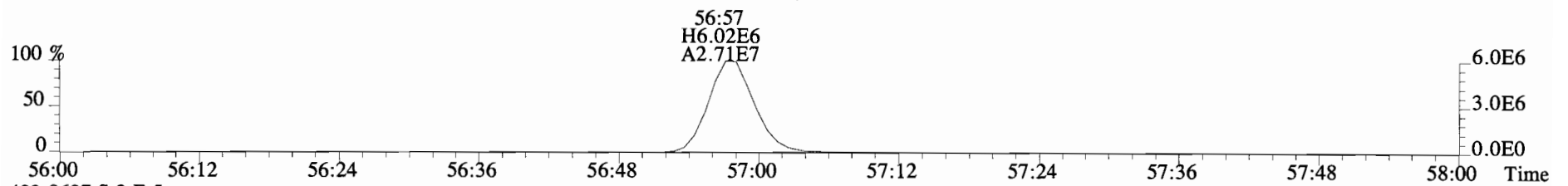
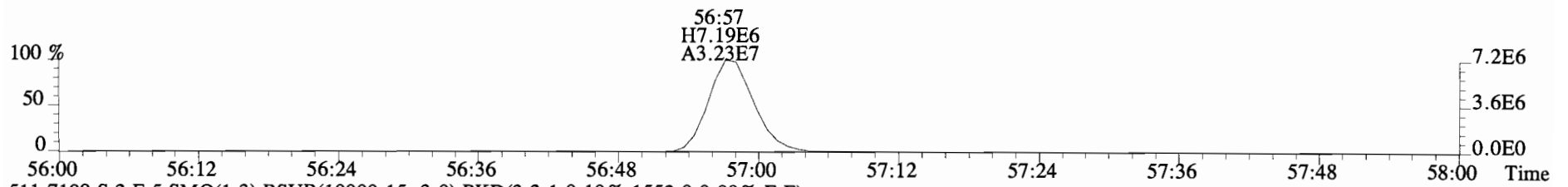
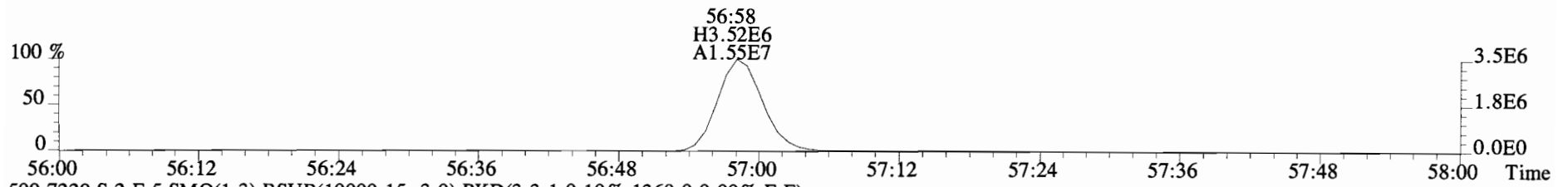
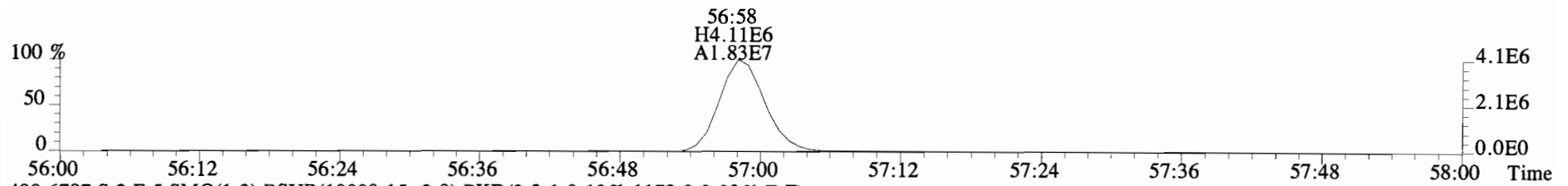
File:140919E2 #1-430 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42124.0,0.00%,F,F)



File:140919E2 #1-430 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16436.0,0.00%,F,F)



File:140919E2 #1-430 Acq:20-SEP-2014 00:47:26 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0032-BS1 OPR Exp:PCB\_ZB1  
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1168.0,0.00%,F,F)



Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04RE1 DL 1:20

Filename: 140919E2  
GC Column ID: ZB-1

S:7 Acq:20-SEP-14 06:09:32  
ICal: PCBVG8-6-23-14 wt/vol: 3.00290

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	3.01e+05	3.00	y 16:20	1.19	184	*	2.5	*	*	1.001	0.996-1.006	
Mono	PCB-2	1.13e+05	2.81	y 18:43	1.18	69.0	*	2.5	*	*	0.989	0.984-0.994	
Mono	PCB-3	3.07e+05	2.95	y 18:57	1.43	155	*	2.5	*	*	1.001	0.996-1.006	
Di	PCB-4/10	1.21e+06	1.76	y 20:18	1.57	1130	*	2.5	*	*	1.001	0.997-1.007	
Di	PCB-7/9	6.46e+05	1.79	y 22:07	1.21	509	*	2.5	*	*	0.869	0.866-0.874	
Di	PCB-6	1.18e+06	1.64	y 22:46	1.30	865	*	2.5	*	*	0.894	0.890-0.899	
Di	PCB-5/8	5.74e+06	1.63	y 23:10	1.15	4760	*	2.5	*	*	0.910	0.907-0.917	
Di	PCB-14	*	*	n NotF $\eta$	1.11	*	12400	2.5	283	*	*	0.949-0.959	
Di	PCB-11	4.12e+06	1.76	y 25:29	1.09	3430	*	2.5	*	*	1.001	0.995-1.005	
Di	PCB-12/13	*	*	n NotF $\eta$	1.19	*	14900	2.5	316	*	*	1.011-1.021	
Di	PCB-15	4.02e+06	1.70	y 26:10	1.28	2840	*	2.5	*	*	1.028	1.023-1.033	
Tri	PCB-19	4.93e+05	1.08	y 24:27	1.04	562	*	2.5	*	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.71	*	2000	2.5	33.1	*	*	1.032-1.042	
Tri	PCB-18	5.74e+06	1.10	y 26:06	0.78	6100	*	2.5	*	*	0.954	0.949-0.959	
Tri	PCB-17	2.30e+06	1.09	y 26:16	0.92	2070	*	2.5	*	*	0.960	0.956-0.966	
Tri	PCB-24/27	5.93e+05	1.08	y 26:50	1.19	415	*	2.5	*	*	0.981	0.977-0.987	
Tri	PCB-16/32	4.56e+06	1.10	y 27:21	0.94	4040	*	2.5	*	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.14	*	2490	2.5	58.7	*	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF $\eta$	1.28	*	2490	2.5	52.2	*	*	0.959-0.969	
Tri	PCB-29	1.12e+05	0.90	y 28:30	1.08	110	*	2.5	*	*	0.972	0.967-0.977	
Tri	PCB-26	1.86e+06	1.11	y 28:43	1.21	1640	*	2.5	*	*	0.980	0.974-0.984	
Tri	PCB-25	8.46e+05	1.11	y 28:52	1.26	713	*	2.5	*	*	0.985	0.979-0.989	
Tri	PCB-31	9.46e+06	1.08	y 29:13	1.28	7830	*	2.5	*	*	0.997	0.992-1.002	
Tri	PCB-28	9.72e+06	1.02	y 29:20	1.71	6030	*	2.5	*	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	7.72e+06	1.08	y 29:58	1.08	7590	*	2.5	*	*	1.022	1.017-1.027	
Tri	PCB-22	4.35e+06	1.06	y 30:24	1.21	3830	*	2.5	*	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.14	*	2490	2.5	66.8	*	*	0.928-0.938	
Tri	PCB-39	*	*	n NotF $\eta$	1.12	*	2490	2.5	68.4	*	*	0.943-0.953	
Tri	PCB-38	5.71e+04	0.98	y 32:14	1.20	49.4	*	2.5	*	*	0.971	0.966-0.976	
Tri	PCB-35	2.91e+05	1.15	y 32:47	1.23	246	*	2.5	*	*	0.987	0.982-0.992	
Tri	PCB-37	3.94e+06	1.06	y 33:13	1.23	3320	*	2.5	*	*	1.001	0.995-1.005	
Tetra	PCB-54	*	*	n NotF $\eta$	1.10	*	3190	2.5	70.5	*	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.88	*	3190	2.5	88.2	*	*	1.037-1.047	
Tetra	PCB-53	7.64e+05	0.86	y 30:01	1.06	1070	*	2.5	*	*	0.946	0.942-0.952	
Tetra	PCB-51	2.56e+05	0.73	y 30:22	0.99	383	*	2.5	*	*	0.957	0.952-0.962	
Tetra	PCB-45	7.96e+05	0.73	y 30:48	0.86	1370	*	2.5	*	*	0.971	0.966-0.976	
Tetra	PCB-46	3.32e+05	0.88	y 31:17	0.85	583	*	2.5	*	*	0.986	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 9/23/14

Reviewed by: [Signature]

Date: 9/23/14

Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04REL DL 1:20

Filename: 140919E2  
GC Column ID: ZB-1

S:7 Acq:20-SEP-14 06:09:32  
ICal: PCBVG8-6-23-14 wt/vol:3.0029

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	6.62e+06	0.82	y 31:45	1.28	7670	*	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.35	*		3190	2.5	84.6	*	1.000-1.010	
Tetra	PCB-43/49	3.59e+06	0.83	y 32:03	0.99	5360	*	*	2.5	*	1.011	1.005-1.015	
Tetra	PCB-47	1.46e+06	0.82	y 32:15	1.06	1970	*	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	1.42e+06	0.82	y 32:23	1.23	1640	*	*	2.5	*	1.005	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.22	*		3190	2.5	83.3	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF $\eta$	1.22	*		3190	2.5	83.6	*	1.011-1.021	
Tetra	PCB-44	4.67e+06	0.87	y 33:03	0.86	7720	*	*	2.5	*	1.025	1.021-1.031	
Tetra	PCB-42/59	2.13e+06	0.76	y 33:17	1.14	2660	*	*	2.5	*	1.033	1.028-1.038	
Tetra	PCB-41/64/71/72	6.27e+06	0.80	y 33:52	1.21	7390	*	*	2.5	*	1.051	1.046-1.056	
Tetra	PCB-68	5.07e+04	0.80	y 34:07	1.35	53.5	*	*	2.5	*	1.058	1.054-1.064	
Tetra	PCB-40	8.59e+05	0.77	y 34:20	0.70	1740	*	*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	5.23e+04	0.83	y 34:42	0.98	58.2	*	*	2.5	*	0.971	0.965-0.975	
Tetra	PCB-67	2.45e+05	0.97	n 35:00	1.11	242	R	*	2.5	*	0.979	0.974-0.984	
Tetra	PCB-58	*	*	n NotF $\eta$	0.93	*		3190	2.5	91.6	*	0.977-0.987	
Tetra	PCB-63	2.14e+05	1.01	n 35:16	0.95	245	R	*	2.5	*	0.986	0.982-0.992	
Tetra	PCB-74	2.96e+06	0.80	y 35:34	1.24	2600	*	*	2.5	*	0.995	0.990-1.000	
Tetra	PCB-61/70	7.99e+06	0.85	y 35:47	0.95	9140	*	*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-76/66	5.35e+06	0.81	y 35:59	1.04	5590	*	*	2.5	*	1.007	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.19	*		3190	2.5	72.4	*	0.996-1.006	
Tetra	PCB-55	2.03e+05	0.85	y 36:30	1.04	212	*	*	2.5	*	1.009	1.005-1.015	
Tetra	PCB-56/60	3.87e+06	0.82	y 37:00	1.01	4180	*	*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	1.51e+05	0.77	y 38:05	1.08	153	*	*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.27	*		3190	2.5	71.6	*	0.982-0.992	
Tetra	PCB-81	7.31e+04	0.75	y 39:18	1.33	64.5	*	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	9.40e+05	0.80	y 39:53	1.10	1040	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.18	*		1740	2.5	80.9	*	0.996-1.006	
Penta	PCB-96	7.65e+04	1.44	y 34:10	1.14	114	*	*	2.5	*	1.039	1.034-1.044	
Penta	PCB-103	1.04e+05	1.64	y 34:42	0.96	184	*	*	2.5	*	1.055	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	0.94	*		1740	2.5	102	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.06	*		1740	2.5	118	*	0.980-0.990	
Penta	PCB-95/98/102	7.33e+06	1.64	y 36:04	1.22	13200	*	*	2.5	*	1.001	0.995-1.005	
Penta	PCB-93	*	*	n NotF $\eta$	0.84	*		1740	2.5	148	*	0.997-1.007	
Penta	PCB-88/91	8.07e+05	1.68	y 36:29	1.12	1600	*	*	2.5	*	1.012	1.005-1.015	
Penta	PCB-121	*	*	n NotF $\eta$	1.62	*		1740	2.5	77.0	*	1.009-1.019	
Penta	PCB-84/92	3.42e+06	1.59	y 37:22	1.05	6560	*	*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	7.40e+04	1.51	y 37:33	1.13	132	*	*	2.5	*	0.995	0.991-1.001	

Analyst: DM5

Date: 9/23/14

Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04RE1 DL 1:20

Filename: 140919E2  
GC Column ID: ZB-1

S:7 Acq:20-SEP-14 06:09:32  
ICal: PCBVG8-6-23-14 wt/vol:3.0029

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.08e+07	1.58	y 37:45	1.10	19700	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-113	7.61e+04	1.49	y 37:57	1.41	108	*	2.5	*	*	1.006	1.002-1.012	
Penta	PCB-99	3.25e+06	1.68	y 38:05	1.34	4890	*	2.5	*	*	1.009	1.004-1.014	
Penta	PCB-119	2.07e+05	1.66	y 38:32	1.53	304	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	3.55e+05	1.44	y 38:43	1.28	623	*	2.5	*	*	0.992	0.986-0.996	
Penta	PCB-83	*	*	n NotFη	1.52	*	*	1740	2.5	96.1	*	0.990-1.000	
Penta	PCB-97	2.36e+06	1.57	y 39:03	1.18	4490	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-86	*	*	n NotFη	0.84	*	*	2430	2.5	242	*	0.999-1.009	
Penta	PCB-87/117/125	4.01e+06	1.59	y 39:20	1.55	5810	*	2.5	*	*	1.008	1.002-1.012	
Penta	PCB-111/115	1.83e+05	1.46	y 39:29	1.63	252	*	2.5	*	*	1.012	1.006-1.016	
Penta	PCB-85/116	1.32e+06	1.58	y 39:36	1.30	2270	*	2.5	*	*	1.015	1.010-1.020	
Penta	PCB-120	7.37e+04	1.72	y 39:49	1.68	98.8	*	2.5	*	*	1.020	1.016-1.026	
Penta	PCB-110	1.26e+07	1.66	y 40:00	1.56	18200	*	2.5	*	*	1.025	1.020-1.030	
Penta	PCB-82	7.25e+05	1.59	y 40:37	0.76	1760	*	2.5	*	*	0.976	0.971-0.981	
Penta	PCB-124	5.42e+05	1.67	y 41:18	1.47	677	*	2.5	*	*	0.992	0.988-0.998	
Penta	PCB-107/109	6.92e+05	1.73	y 41:29	1.32	963	*	2.5	*	*	0.997	0.991-1.001	
Penta	PCB-123	1.28e+05	1.53	y 41:38	1.17	201	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-106/118	9.59e+06	1.67	y 41:49	1.17	14600	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	2.67e+05	1.64	y 42:29	1.30	341	*	2.5	*	*	1.001	0.995-1.005	
Penta	PCB-122	1.17e+05	1.45	y 42:36	1.12	173	*	2.5	*	*	1.004	0.999-1.009	
Penta	PCB-105	4.02e+06	1.60	y 43:20	1.30	5360	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotFη	1.33	*	*	638	2.5	32.4	*	0.996-1.006	
Penta	PCB-126	1.26e+05	1.34	y 45:35	1.18	210	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotFη	1.11	*	*	1660	2.5	76.5	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotFη	1.00	*	*	1660	2.5	85.3	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotFη	1.12	*	*	1660	2.5	76.4	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotFη	1.20	*	*	1660	2.5	70.9	*	1.055-1.065	
Hexa	PCB-136	2.48e+06	1.36	y 39:49	1.18	3580	*	2.5	*	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotFη	0.74	*	*	1660	2.5	114	*	1.066-1.076	
Hexa	PCB-154	1.95e+05	1.27	y 40:24	0.86	387	*	2.5	*	*	1.084	1.080-1.090	
Hexa	PCB-151	3.52e+06	1.26	y 41:02	0.75	8020	*	2.5	*	*	1.101	1.097-1.107	
Hexa	PCB-135	1.79e+06	1.33	y 41:16	0.79	3830	*	2.5	*	*	1.107	1.103-1.113	
Hexa	PCB-144	6.37e+05	1.38	y 41:23	0.76	1420	*	2.5	*	*	1.110	1.105-1.117	
Hexa	PCB-147	8.38e+04	0.95	n 41:31	0.82	174	R	*	2.5	*	1.114	1.109-1.121	
Hexa	PCB-139/149	1.15e+07	1.31	y 41:46	0.76	25700	*	2.5	*	*	1.121	1.116-1.128	
Hexa	PCB-140	4.98e+04	1.55	n 41:57	0.72	117	R	*	2.5	*	1.126	1.121-1.133	
Hexa	PCB-134/143	8.03e+05	1.37	y 42:24	0.92	1610	*	2.5	*	*	0.975	0.970-0.980	

Analyst: DMS

Date: 9/23/14



Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04RE1 DL 1:20

Filename: 140919E2  
GC Column ID: ZB-1

S:7 Acq:20-SEP-14 06:09:32  
ICal: PCBVG8-6-23-14 wt/vol:3.0029

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	4.02e+05	1.25	y 42:42	0.82	899	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF $\eta$	0.91	*		1130	2.5	78.3	*	0.981-0.991	
Hexa	PCB-146/165	2.92e+06	1.39	y 43:06	1.25	4290	*	2.5	*	*	0.992	0.986-0.996	
Hexa	PCB-132/161	4.94e+06	1.25	y 43:21	1.10	8200	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	1.98e+07	1.30	y 43:29	1.25	29100	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF $\eta$	1.45	*		1130	2.5	49.3	*	1.001-1.011	
Hexa	PCB-141	3.91e+06	1.24	y 44:14	1.09	6960	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-137	5.44e+05	1.46	n 44:37	1.06	989	R	*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	7.80e+05	1.37	y 44:43	0.96	1560	*	2.5	*	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	1.91e+07	1.31	y 45:05	1.29	29700	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	2.15e+06	1.32	y 45:19	1.34	3220	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	5.25e+05	1.33	y 45:35	0.85	1240	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	*	*	n NotF $\eta$	1.19	*		1130	2.5	55.9	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotF $\eta$	1.11	*		1130	2.5	59.6	*	0.996-1.006	
Hexa	PCB-128/162	2.13e+06	1.29	y 46:39	1.05	3760	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	*	*	n NotF $\eta$	1.20	1250 *			*	*	*	0.995-1.005	
Hexa	PCB-156	1.68e+06	1.30	y 48:22	1.14	3130	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-157	3.52e+05	1.37	y 48:38	1.16	583	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF $\eta$	1.12	*		1130	2.5	78.8	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF $\eta$	1.58	*		1620	2.5	46.6	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF $\eta$	1.63	*		1620	2.5	45.2	*	1.006-1.016	
Hepta	PCB-179	2.94e+06	1.07	y 44:21	1.30	5220	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	9.47e+05	1.00	y 44:49	1.48	1490	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF $\eta$	1.45	*		1620	2.5	50.7	*	1.050-1.060	
Hepta	PCB-178	1.02e+06	1.09	y 45:55	1.03	2280	*	2.5	*	*	1.065	1.061-1.071	
Hepta	PCB-175	1.86e+05	0.93	y 46:15	1.01	426	*	2.5	*	*	1.073	1.069-1.079	
Hepta	PCB-182/187	6.69e+06	1.04	y 46:26	1.25	12400	*	2.5	*	*	1.077	1.073-1.083	
Hepta	PCB-183	3.26e+06	1.13	y 46:46	1.21	6250	*	2.5	*	*	1.085	1.081-1.091	
Hepta	PCB-185	5.75e+05	1.07	y 47:26	1.80	1200	*	2.5	*	*	0.956	0.951-0.961	
Hepta	PCB-174	4.70e+06	1.06	y 47:47	1.38	12800	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF $\eta$	1.38	*		1620	2.5	87.4	*	0.960-0.970	
Hepta	PCB-177	2.60e+06	1.04	y 48:04	1.26	7780	*	2.5	*	*	0.968	0.963-0.973	
Hepta	PCB-171	1.32e+06	1.16	y 48:22	1.58	3140	*	2.5	*	*	0.974	0.970-0.980	
Hepta	PCB-173	9.60e+04	1.13	y 48:47	1.11	325	*	2.5	*	*	0.983	0.978-0.988	
Hepta	PCB-172	7.84e+05	1.15	y 49:15	1.63	1800	*	2.5	*	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF $\eta$	1.74	*		1620	2.5	69.3	*	0.991-1.001	
Hepta	PCB-180	1.06e+07	1.07	y 49:39	1.34	29800	*	2.5	*	*	1.000	0.995-1.005	

1250 \* see 1:40 dilution

Analyst: DMS

Date: 9/23/14

Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04RE1 DL 1:20

Filename: 140919E2 S:7 Acq:20-SEP-14 06:09:32  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:3.0029

ConCal: ST140919E2-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	5.89e+05	1.05	y 49:52	1.72	1290		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	2.33e+05	1.00	y 50:06	1.69	517		*	2.5	*	1.009	1.004-1.014	
Hepta	PCB-170	3.41e+06	1.07	y 51:07	1.60	10500		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	7.82e+05	1.06	y 51:18	2.21	1740		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	*	*	n NotF $\eta$	1.55	*	see 1:40 dil.	*	2.5	416 *	*	0.995-1.005	
Octa	PCB-202	5.48e+05	0.98	y 48:33	1.08	1320		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	3.48e+05	0.90	y 49:03	1.15	786		*	2.5	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF $\eta$	1.14	*		1540	2.5	97.9	*	1.008-1.018	
Octa	PCB-197	1.10e+05	0.91	y 49:31	1.07	266		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	2.75e+05	0.84	y 50:22	1.06	671		*	2.5	*	1.037	1.032-1.044	
Octa	PCB-198	1.25e+05	0.97	y 51:42	0.76	429		*	2.5	*	1.065	1.059-1.069	
Octa	PCB-199	1.49e+06	0.94	y 51:48	0.80	4850		*	2.5	*	1.067	1.061-1.071	
Octa	PCB-196/203	1.71e+06	0.94	y 52:04	0.80	5530		*	2.5	*	1.072	1.066-1.076	
Octa	PCB-195	*	*	n NotF $\eta$	1.23	2070 *		*	2.5	*	*	0.979-0.989	
Octa	PCB-194	*	*	n NotF $\eta$	1.21	4730 *		*	2.5	*	*	0.995-1.005	
Octa	PCB-205	*	*	n NotF $\eta$	1.54	*		*	2.5	* 526 *	*	1.001-1.011	
Nona	PCB-208	2.64e+05	1.51	y 53:21	0.93	1500		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	1.03e+05	1.37	y 53:40	1.08	503		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	4.35e+05	1.44	y 55:48	1.02	4270		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	4.21e+05	1.20	y 57:09	1.17	2700		*	2.5	*	1.001	0.995-1.005	

Analyst: DMS

Date: 9/23/14

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	7.21e+05	3.00 y	16:20	1.27	408.109	
Total Di-PCB	1.69e+07	1.76 y	20:18	1.21	13543.2	
Total Tri-PCB	1.37e+07	1.08 y	24:27	1.10	13188.8	
Total Tri-PCB	3.84e+07	0.90 y	28:30	1.21	31371.1	Sum:44559.9
Total Tetra-PCB	5.08e+07	0.86 y	30:01	1.09	62644.3	
Total Penta-PCB	5.87e+07	1.44 y	34:10	1.18	96725.5	
Total Penta-PCB	4.53e+06	1.64 y	42:29	1.25	6084.57	Sum:102810
Total Hexa-PCB	2.01e+07	1.36 y	39:49	0.90	42987.6	
Total Hexa-PCB	5.95e+07	1.37 y	42:24	1.11	94235.3	Sum:137223 + 1247.58 = 138470.6
Total Hepta-PCB	4.08e+07	1.07 y	44:21	1.42	98964.5	
Total Octa-PCB	4.60e+06	0.98 y	48:33	0.96	13841.6	
Total Octa-PCB	*	* n	NotFnd	1.33	6793.9	* Sum: <del>13841.6</del> + 20635.47
Total Nona-PCB	8.02e+05	1.51 y	53:21	1.01	6267.87	
Total Deca-PCB	4.21e+05	1.20 y	57:09	1.17	2704.04	

Total PCB Conc:484733.662143 + 13702.4 = ~~498436.1~~  
491006

\* = See 1:40 dilution

Integrations  
by  
Analyst: DMS  
Date: 9/23/14

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	4.56e+06	2.96	y	0.87	16:19	0.624	0.629-0.635	3980	119												
13C-PCB-3	4.62e+06	3.26	y	0.91	18:56	0.724	0.725-0.733	3850	116		13C-PCB-79	2.98e+06	0.88	y	1.02	38:03	1.029	1.023-1.034	2960	89.0	
13C-PCB-4	2.27e+06	1.66	y	0.59	20:17	0.775	0.775-0.783	2940	88.2		13C-PCB-178	9.25e+05	0.44	y	0.61	45:54	0.984	0.979-0.990	3680	111	
13C-PCB-9	3.49e+06	1.53	y	0.90	22:04	0.844	0.842-0.850	2960	88.9												
13C-PCB-11	3.68e+06	1.59	y	0.94	25:27	0.973	0.968-0.978	2980	89.5												
13C-PCB-19	2.80e+06	1.15	y	0.53	24:26	0.934	0.930-0.940	4000	120												
13C-PCB-28	3.13e+06	1.18	y	0.93	29:19	1.004	0.999-1.009	2840	85.2		13C-PCB-79	2.98e+06	0.88	y	1.10	38:03	0.969	0.964-0.974	3180	95.5	
13C-PCB-32	4.01e+06	1.12	y	0.80	27:21	1.045	1.040-1.050	3820	115		13C-PCB-178	9.25e+05	0.44	y	0.90	45:54	0.925	0.920-0.930	3880	116	
13C-PCB-37	3.21e+06	1.07	y	0.84	33:12	1.137	1.131-1.143	3220	96.8												
13C-PCB-47	2.34e+06	0.75	y	0.81	32:14	0.872	0.866-0.874	2910	87.4												
13C-PCB-52	2.24e+06	0.87	y	0.77	31:43	0.858	0.853-0.861	2940	88.1												
13C-PCB-54	2.88e+06	0.79	y	0.97	28:11	0.762	0.758-0.766	2990	89.8												
13C-PCB-70	3.05e+06	0.82	y	1.00	35:45	0.967	0.961-0.971	3090	92.7												
13C-PCB-77	2.72e+06	0.88	y	0.94	39:53	1.078	1.073-1.083	2910	87.5												
13C-PCB-80	3.05e+06	0.84	y	1.03	36:10	0.978	0.972-0.982	2990	89.7												
13C-PCB-81	2.83e+06	0.81	y	0.92	39:17	1.062	1.057-1.067	3100	93.2												
13C-PCB-95	1.51e+06	1.52	y	0.74	36:02	0.913	0.908-0.918	3110	93.3												
13C-PCB-97	1.48e+06	1.78	y	0.70	39:02	0.989	0.984-0.994	3210	96.5												
13C-PCB-101	1.66e+06	1.57	y	0.78	37:44	0.956	0.951-0.961	3240	97.2												
13C-PCB-104	1.96e+06	1.55	y	1.00	32:53	0.833	0.828-0.836	2990	89.9		13C-PCB-15	4.38e+06	1.55	y	1.00	26:10			3330		
13C-PCB-105	1.92e+06	1.59	y	1.37	43:19	0.929	0.924-0.934	3440	103		13C-PCB-31	3.94e+06	1.09	y	1.00	29:12			3330		
13C-PCB-114	2.01e+06	1.69	y	1.36	42:27	0.910	0.905-0.915	3610	108		13C-PCB-60	3.30e+06	0.88	y	1.00	36:59			3330		
13C-PCB-118	1.87e+06	1.56	y	0.96	41:48	1.059	1.054-1.064	2980	89.4		13C-PCB-111	2.18e+06	1.50	y	1.00	39:28			3330		
13C-PCB-123	1.81e+06	1.61	y	0.89	41:37	1.054	1.050-1.060	3090	92.9		13C-PCB-128	1.36e+06	1.44	n	1.00	46:38			3330		
13C-PCB-126	1.69e+06	1.77	y	1.31	45:34	0.977	0.972-0.982	3150	94.6		13C-PCB-205	7.01e+05	0.99	y	1.00	54:23			3330		
13C-PCB-127	2.07e+06	1.76	y	1.47	43:40	0.936	0.931-0.941	3430	103												
13C-PCB-138	1.66e+06	1.21	y	1.10	45:03	0.966	0.961-0.971	3680	110												
13C-PCB-141	1.73e+06	1.29	y	1.07	44:13	0.948	0.943-0.953	3920	118												
13C-PCB-153	1.82e+06	1.40	y	1.15	43:28	0.932	0.927-0.937	3870	116												
13C-PCB-155	1.96e+06	1.14	y	0.84	37:16	0.944	0.939-0.949	3560	107												
13C-PCB-156	1.58e+06	1.43	n	1.30	48:21	1.037	1.032-1.042	2970	89.1												
13C-PCB-157	1.73e+06	1.28	y	1.36	48:37	1.043	1.038-1.048	3110	93.3												
13C-PCB-159	1.80e+06	1.14	y	1.25	46:22	0.994	0.989-0.999	3530	106												
13C-PCB-167	1.59e+06	1.52	n	1.35	47:03	1.009	1.004-1.014	2880	86.5												
13C-PCB-169	1.28e+06	1.18	y	1.29	50:45	1.088	1.083-1.093	2440	73.1												
13C-PCB-170	6.77e+05	0.48	y	0.54	51:06	1.096	1.089-1.101	3050	91.5												
13C-PCB-180	8.85e+05	0.44	y	0.68	49:38	1.064	1.060-1.070	3160	94.9												
13C-PCB-188	1.44e+06	0.44	y	0.92	43:06	0.924	0.919-0.929	3820	115												
13C-PCB-189	*	*	n	0.72	NotFnd	*	1.120-1.132	*	62.4												
13C-PCB-194	4.48e+05	1.16	n	0.80	54:06	0.995	0.990-1.000	2670	80.2												
13C-PCB-202	1.28e+06	1.02	y	0.84	48:33	1.041	1.036-1.046	3730	112												
13C-PCB-206	3.32e+05	0.81	y	0.65	55:47	1.026	1.021-1.031	2430	72.8												
13C-PCB-208	6.29e+05	0.66	y	1.08	53:20	0.981	0.976-0.986	2770	83.1												
13C-PCB-209	4.43e+05	1.26	y	0.61	57:07	1.050	1.045-1.055	3450	103												

\*

(86.5) 89.9

\* 62.4

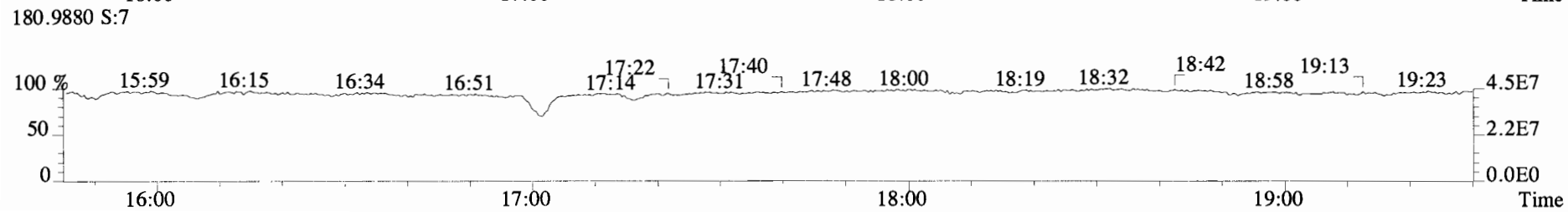
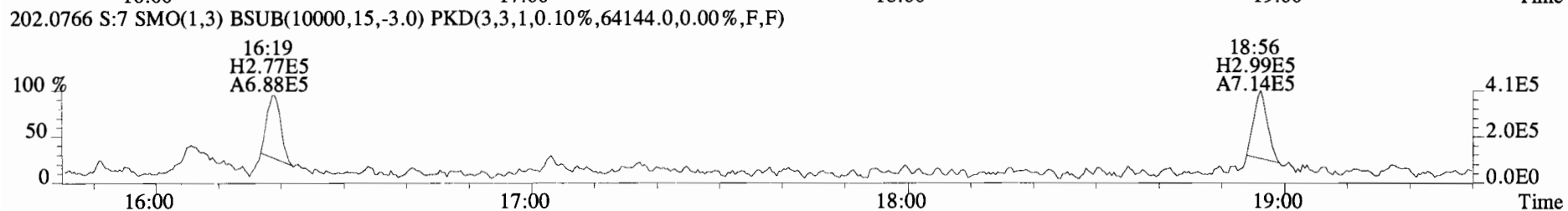
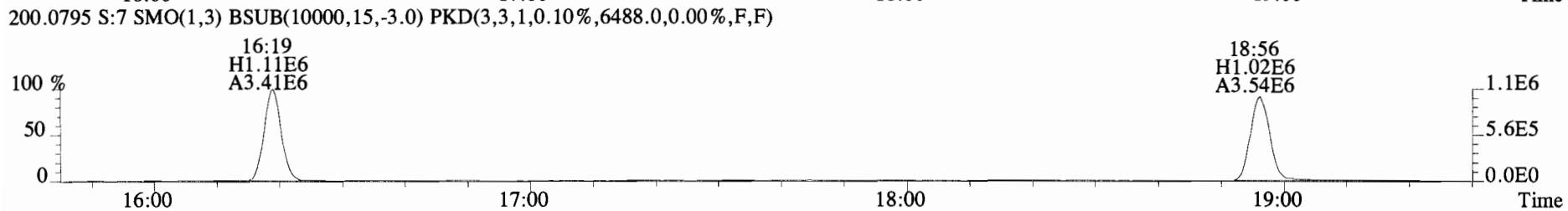
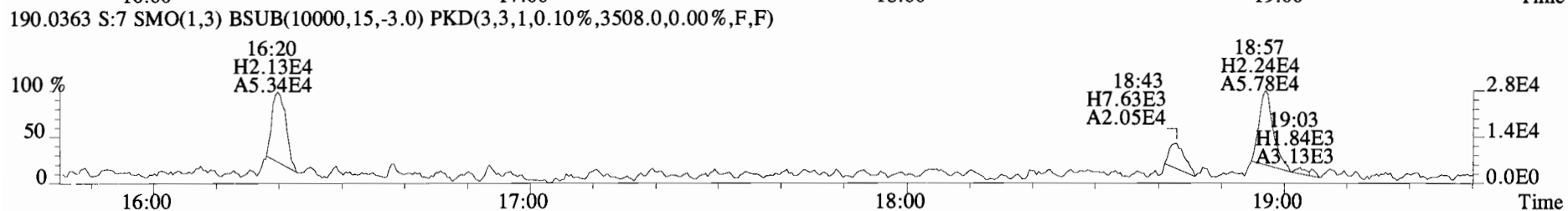
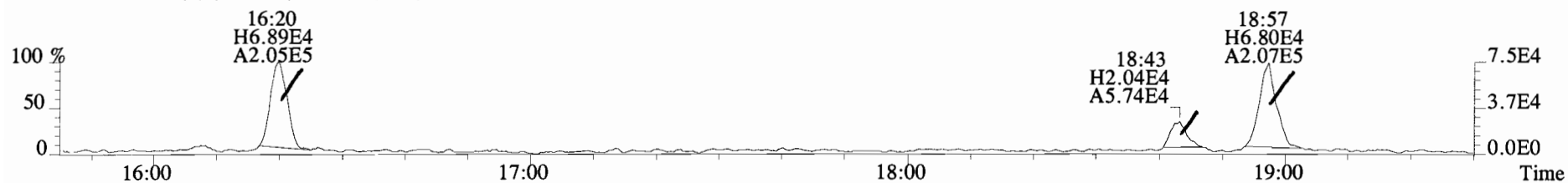
(80.2) 89.8

Analyst: DMS

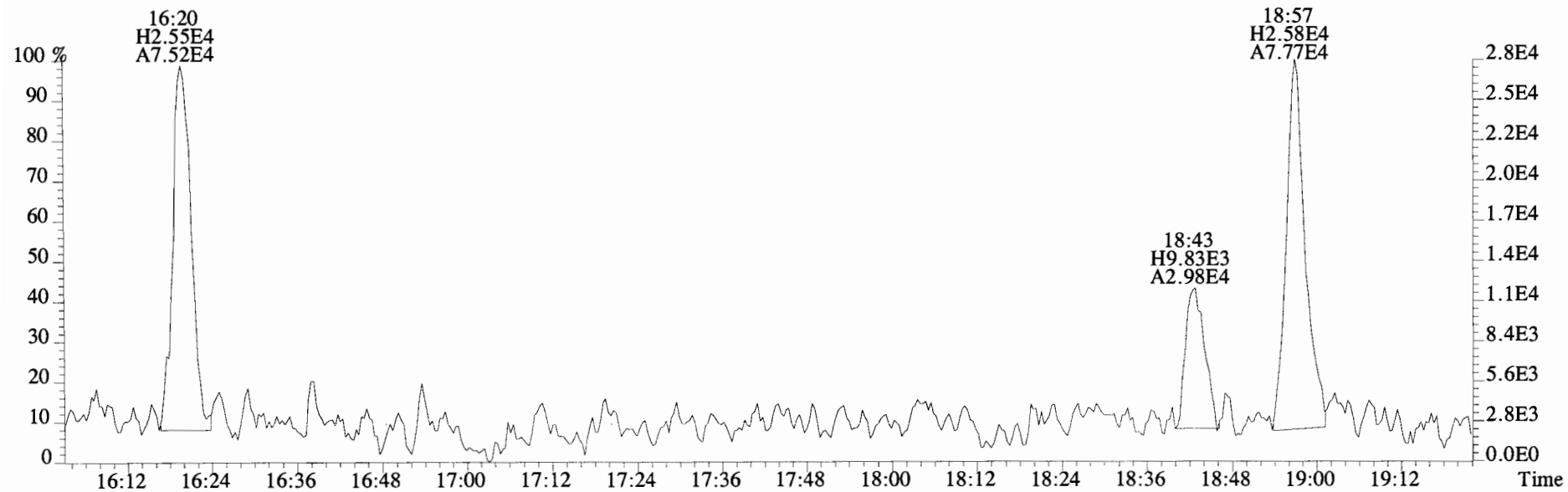
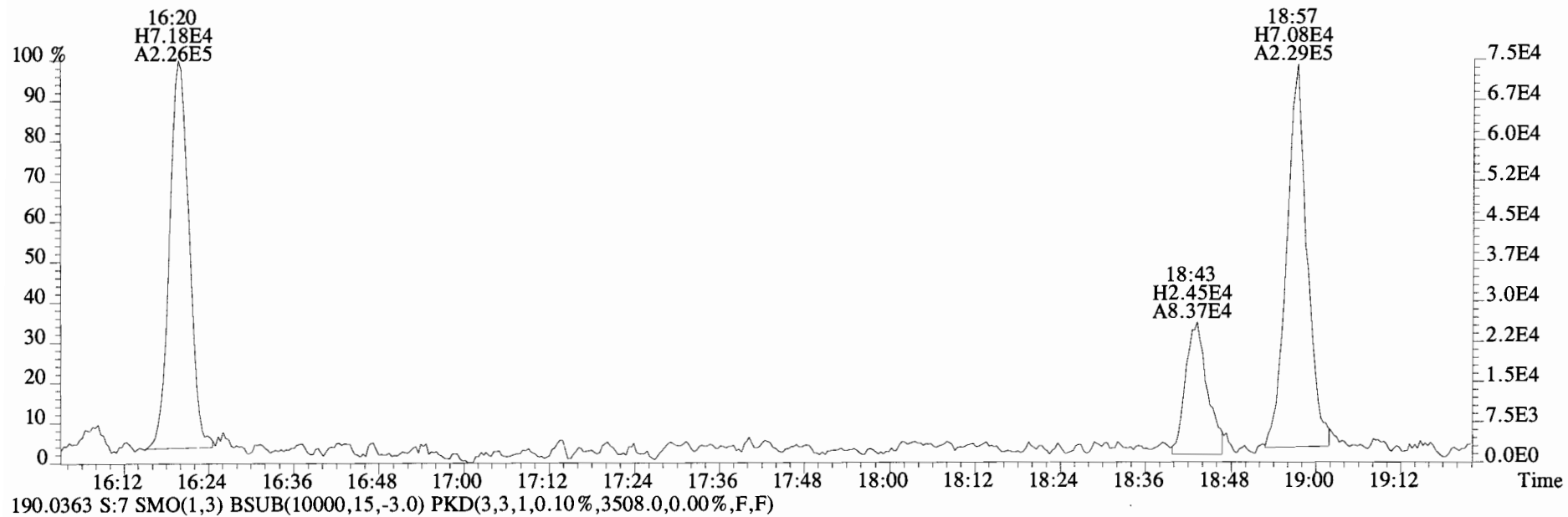
Date: 9/22/14

\* = See 1:4D Dilution

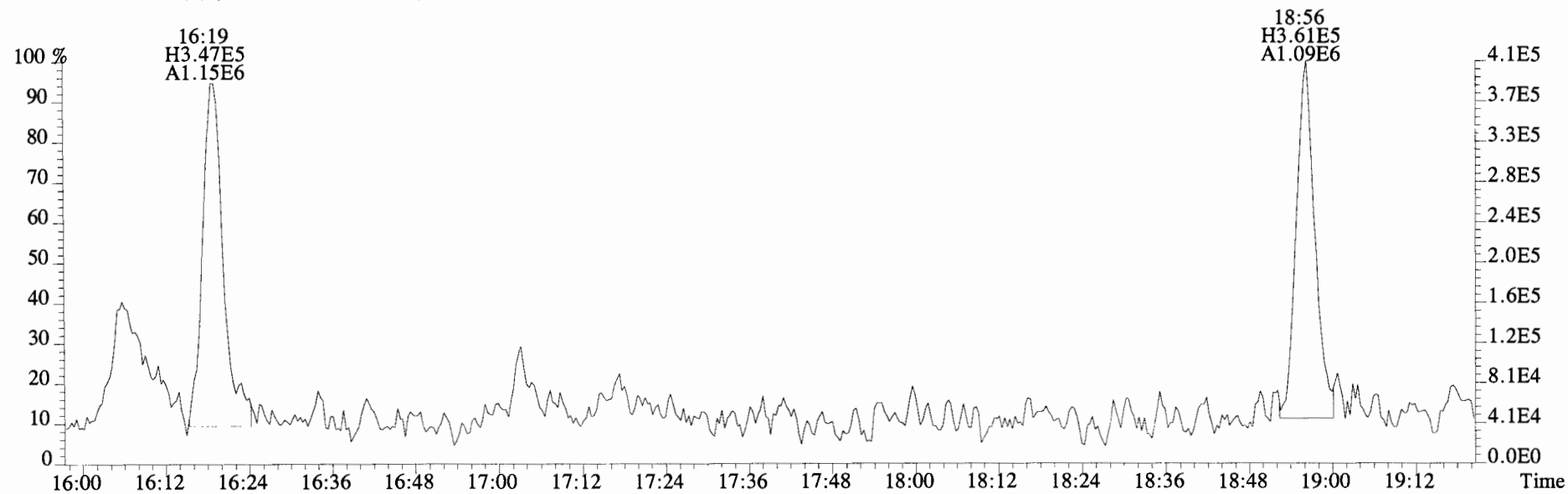
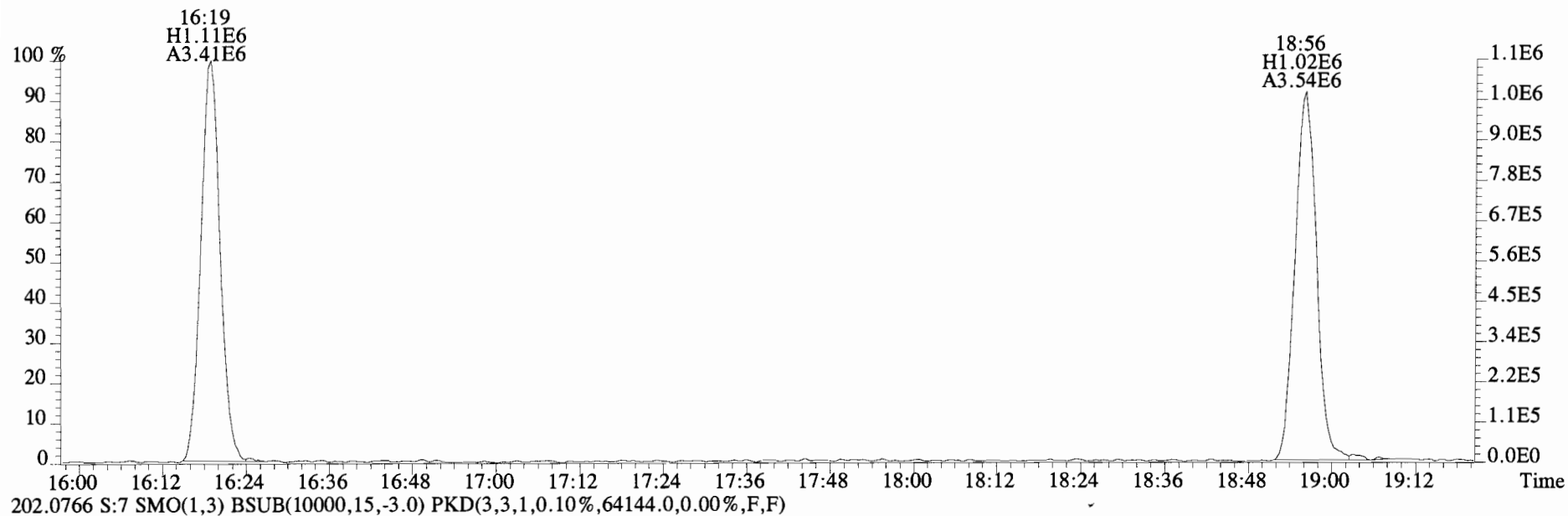
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3360.0,0.00%,F,F)



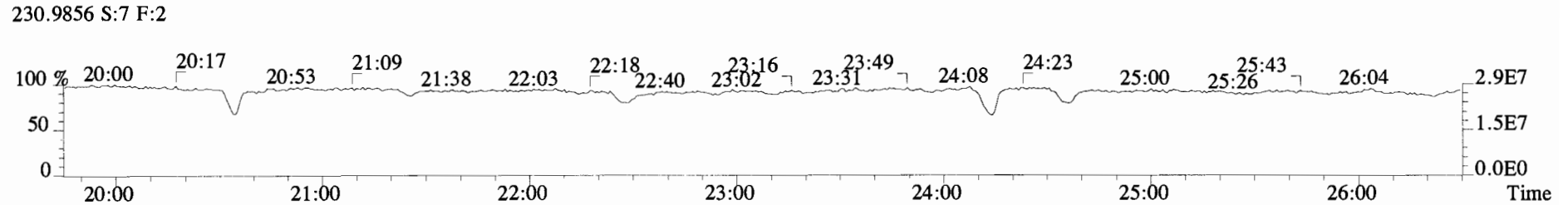
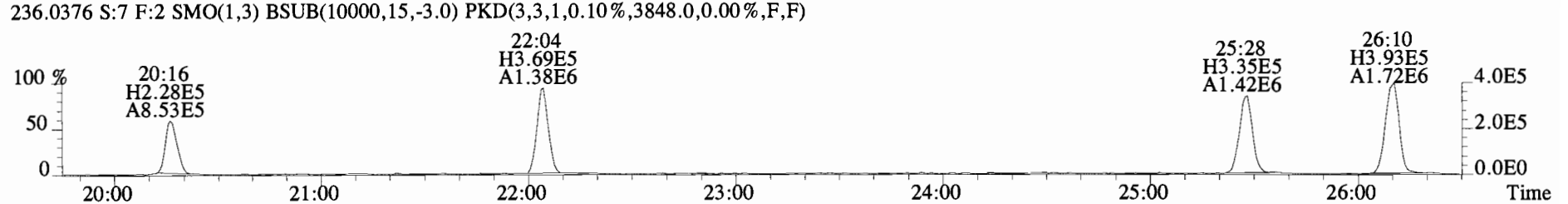
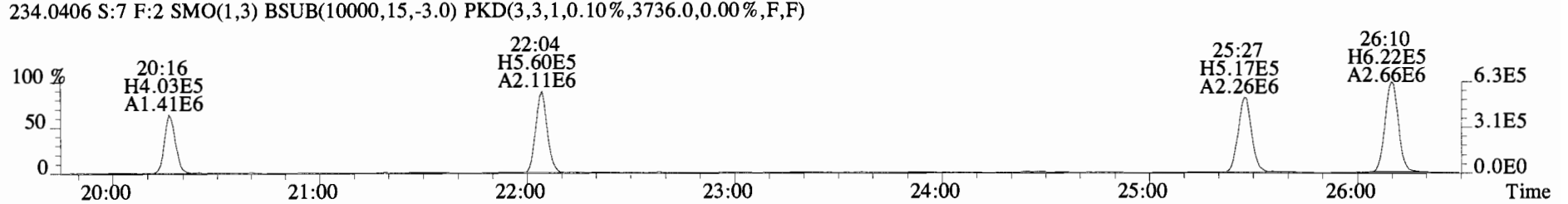
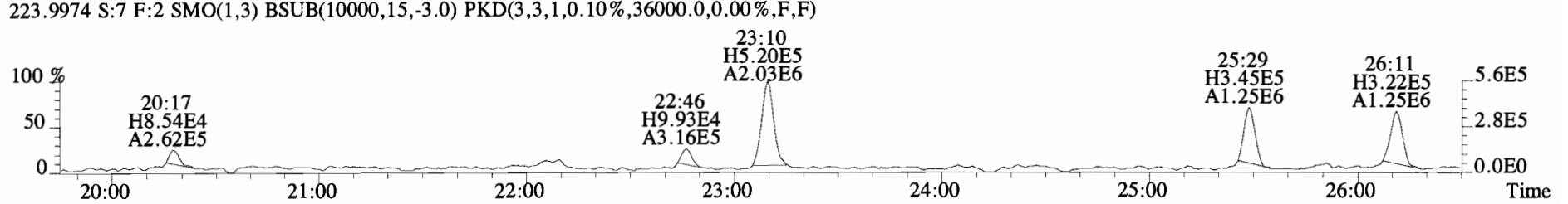
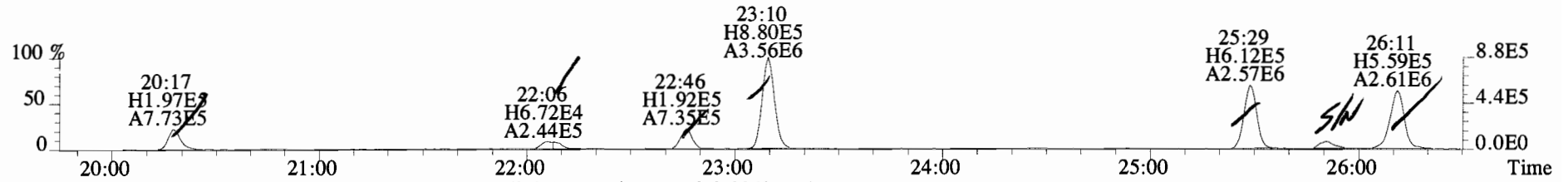
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3360.0,0.00%,F,F)



File:140919E2 #1-729 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6488.0,0.00%,F,F)

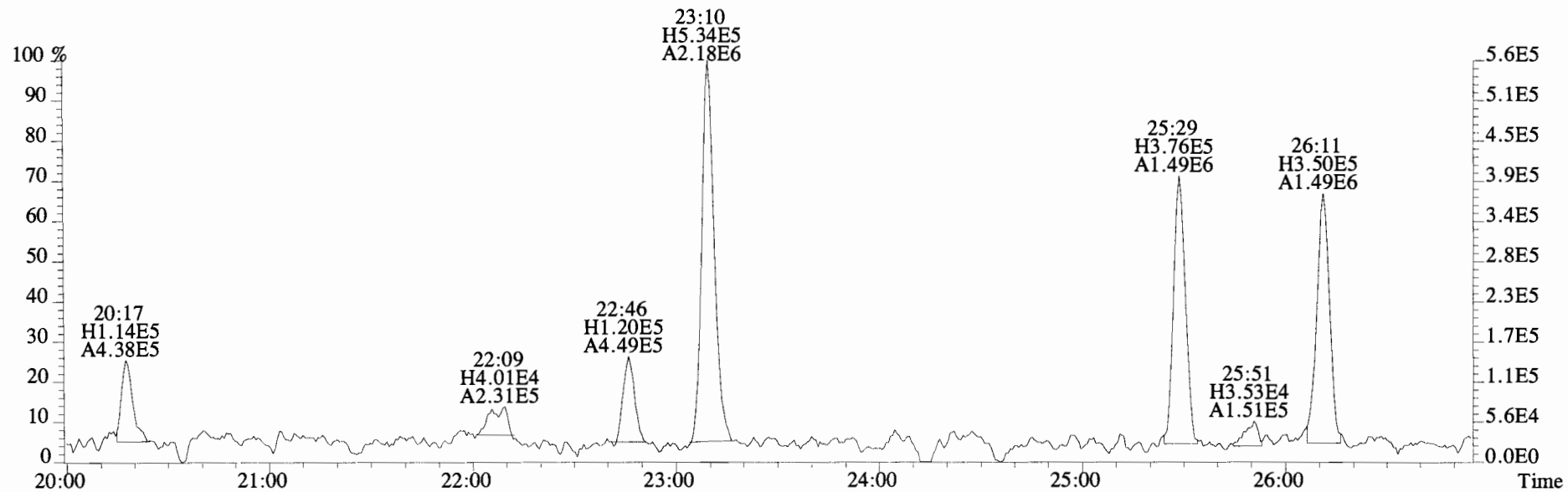
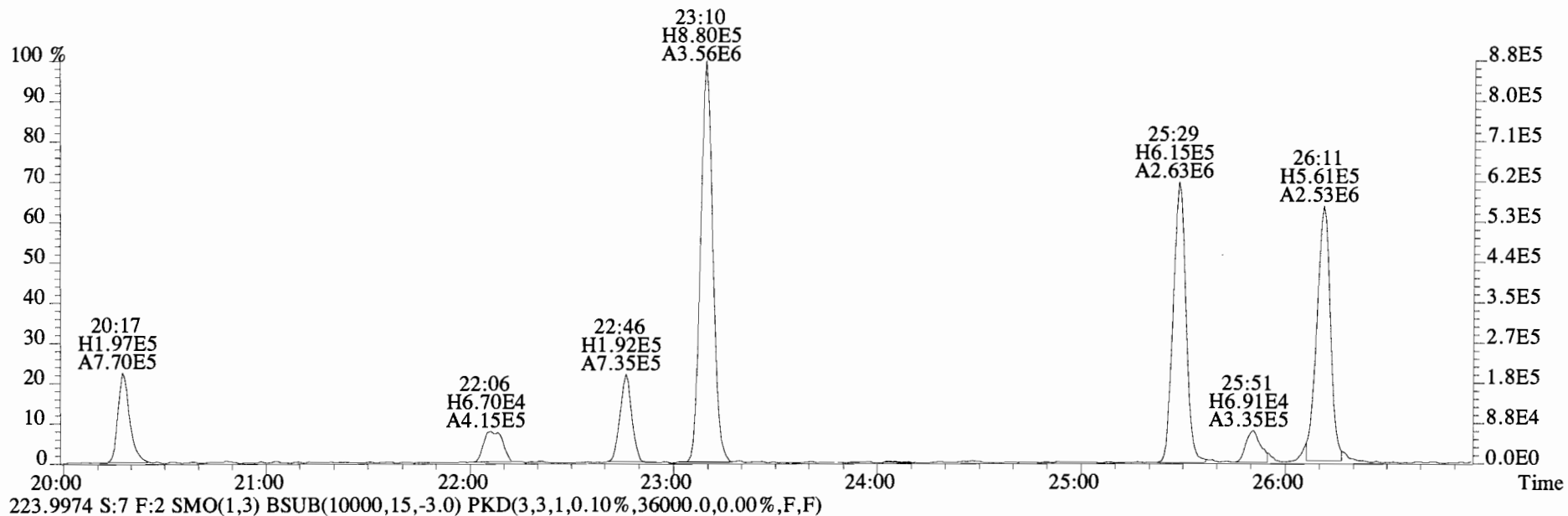


File:140919E2 #1-757 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3188.0,0.00%,F,F)

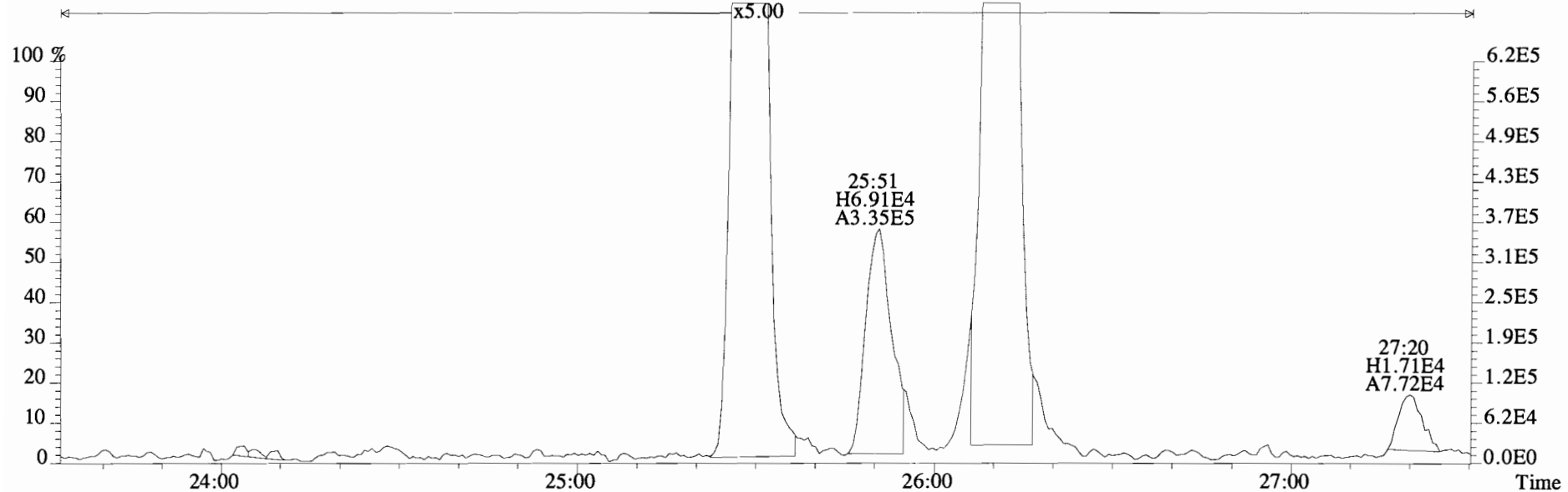




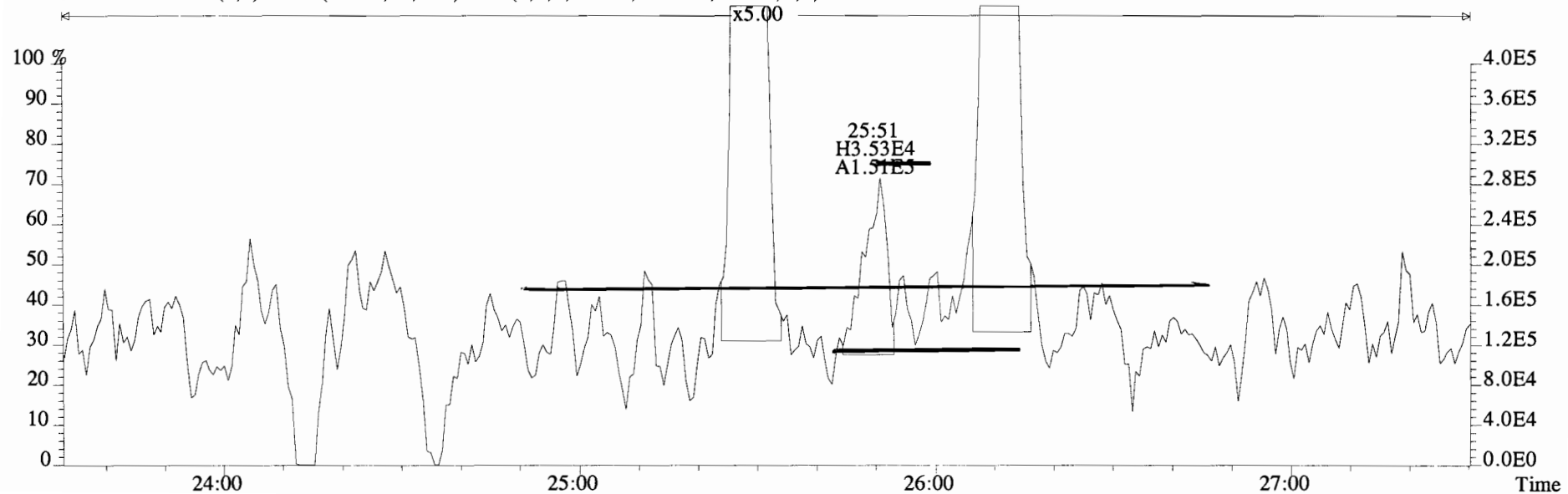
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
222.0003 S:7 F:2 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,3188.0,0.00%,F,F)



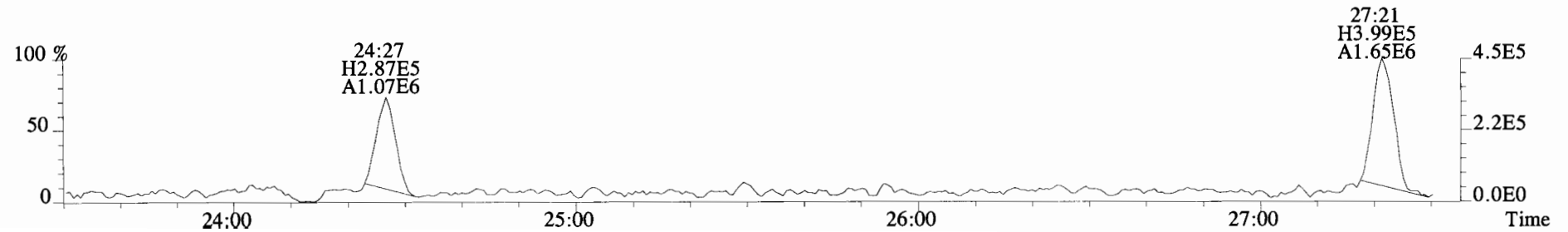
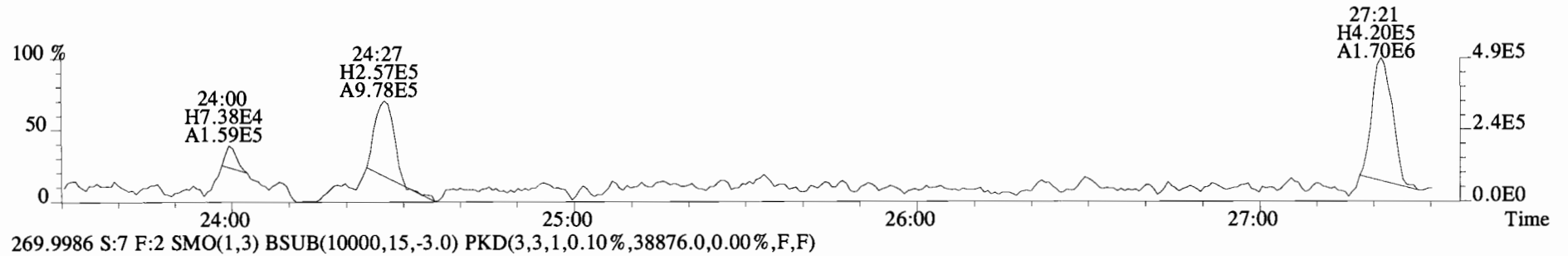
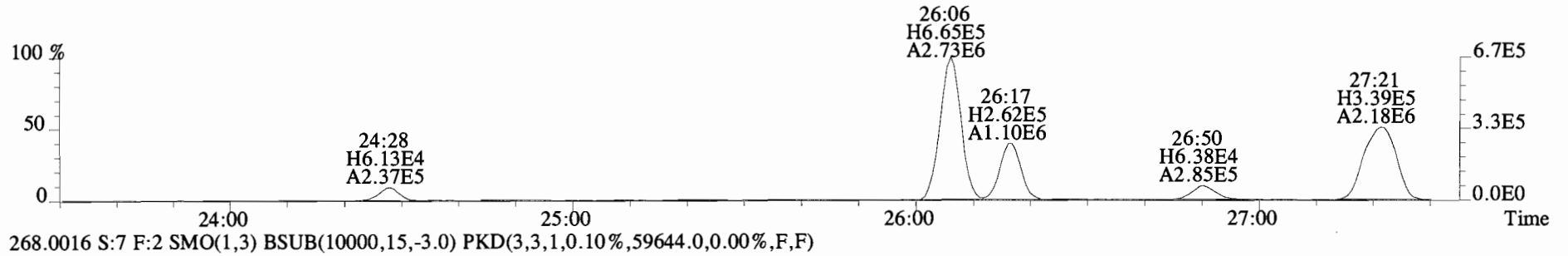
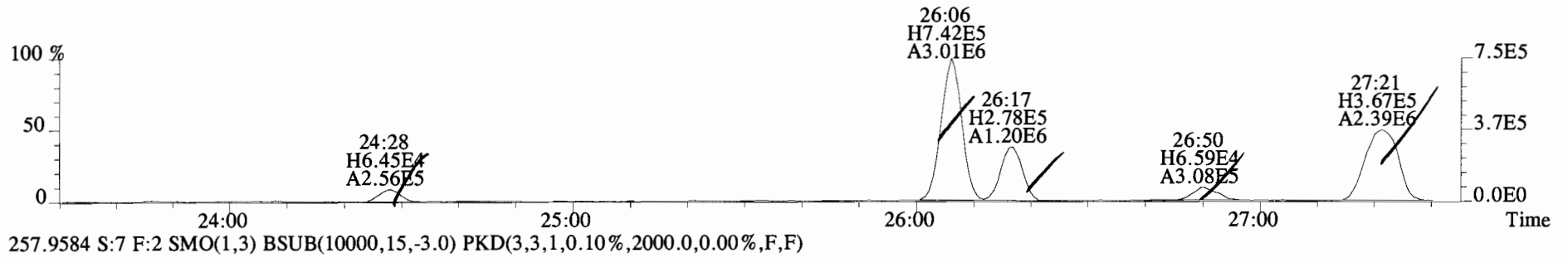
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3188.0,0.00%,F,F)



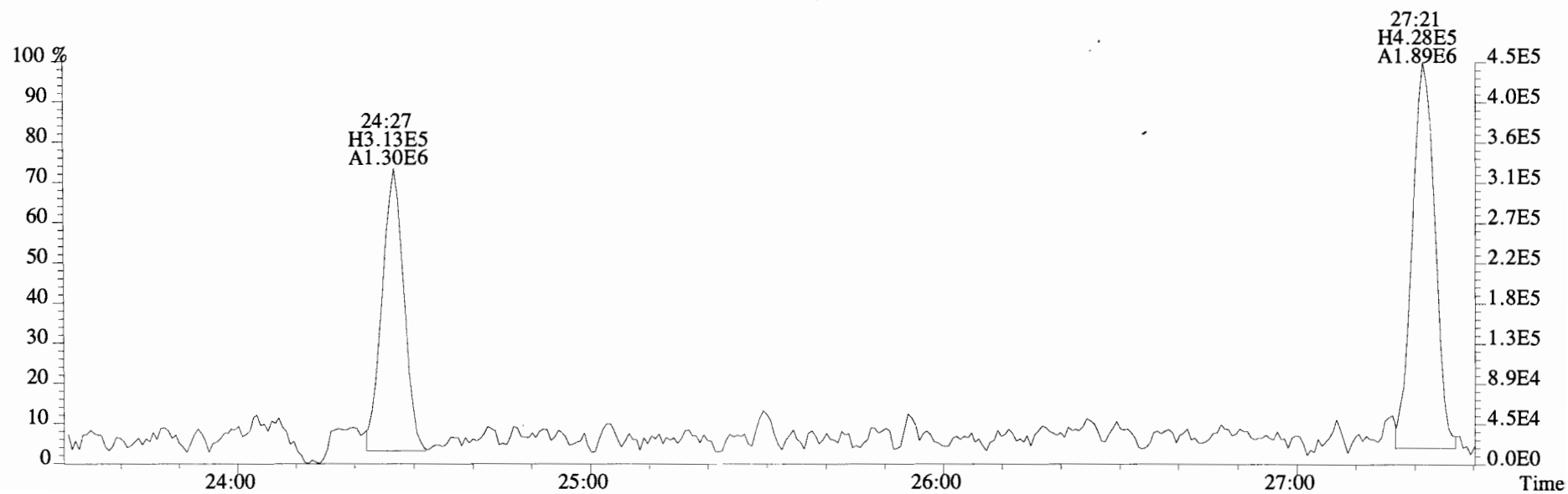
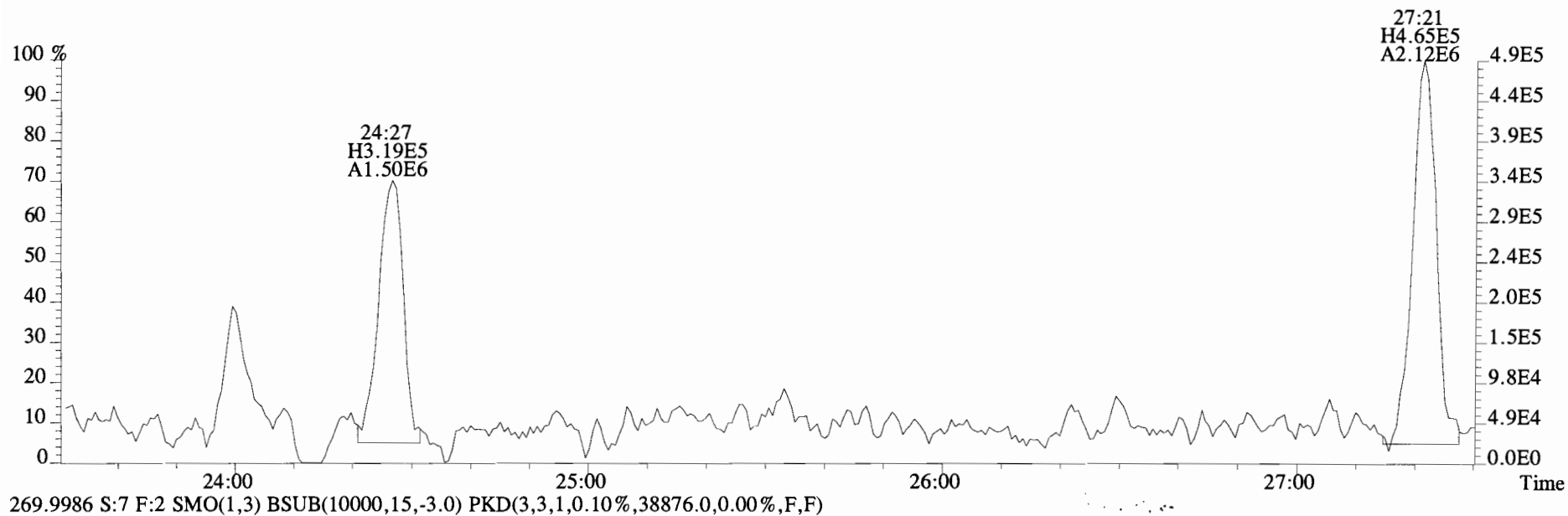
223.9974 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36000.0,0.00%,F,F)



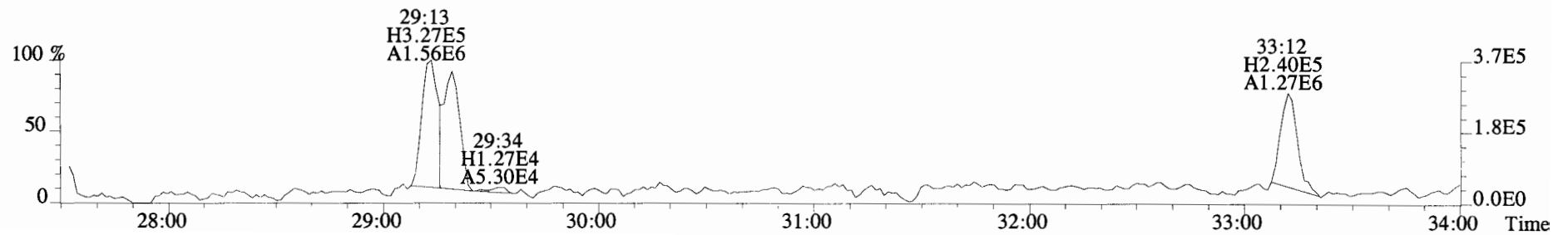
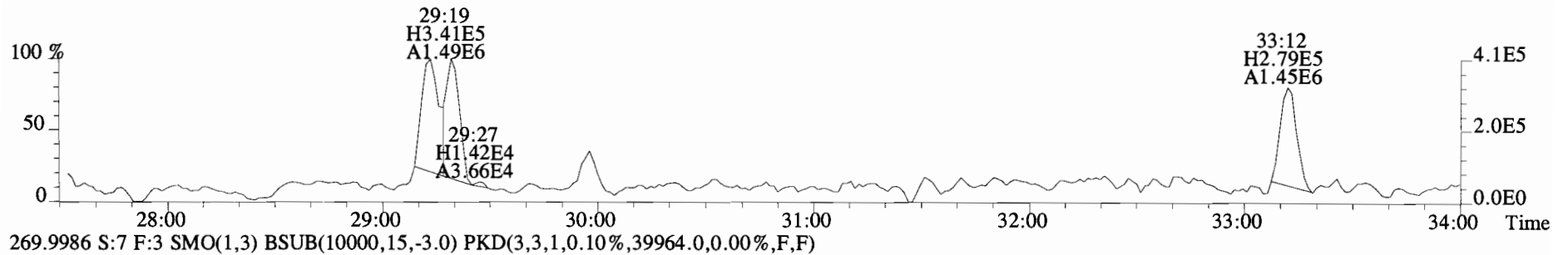
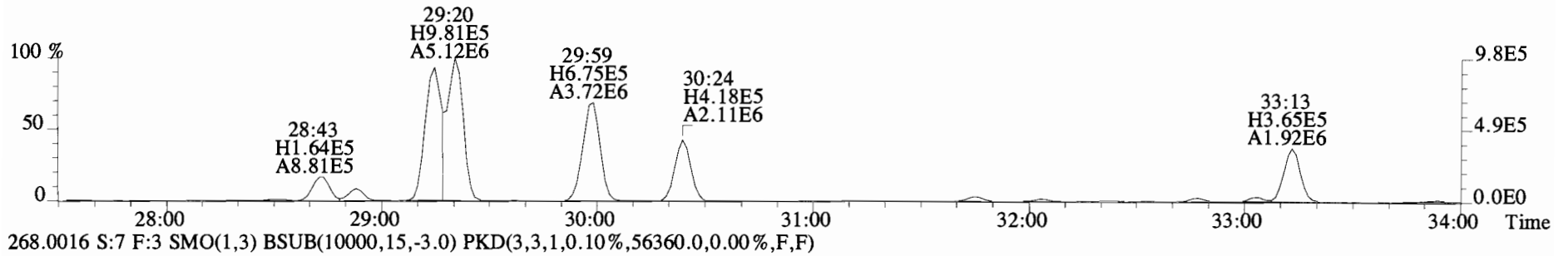
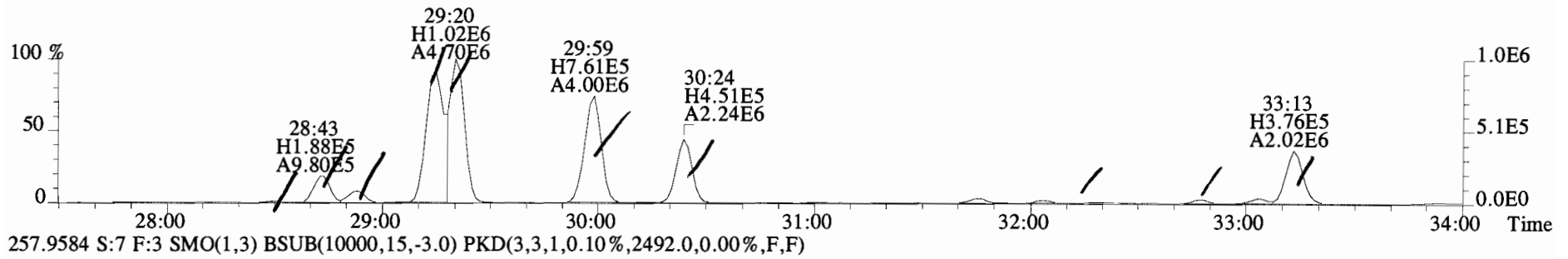
File:140919E2 #1-757 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4268.0,0.00%,F,F)



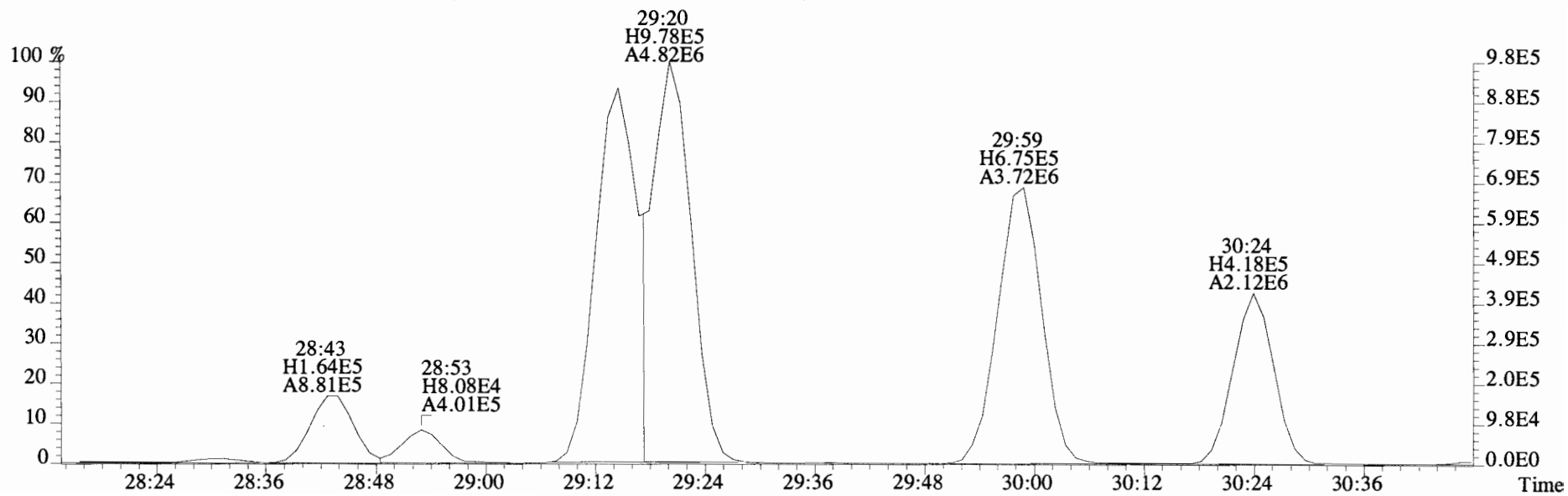
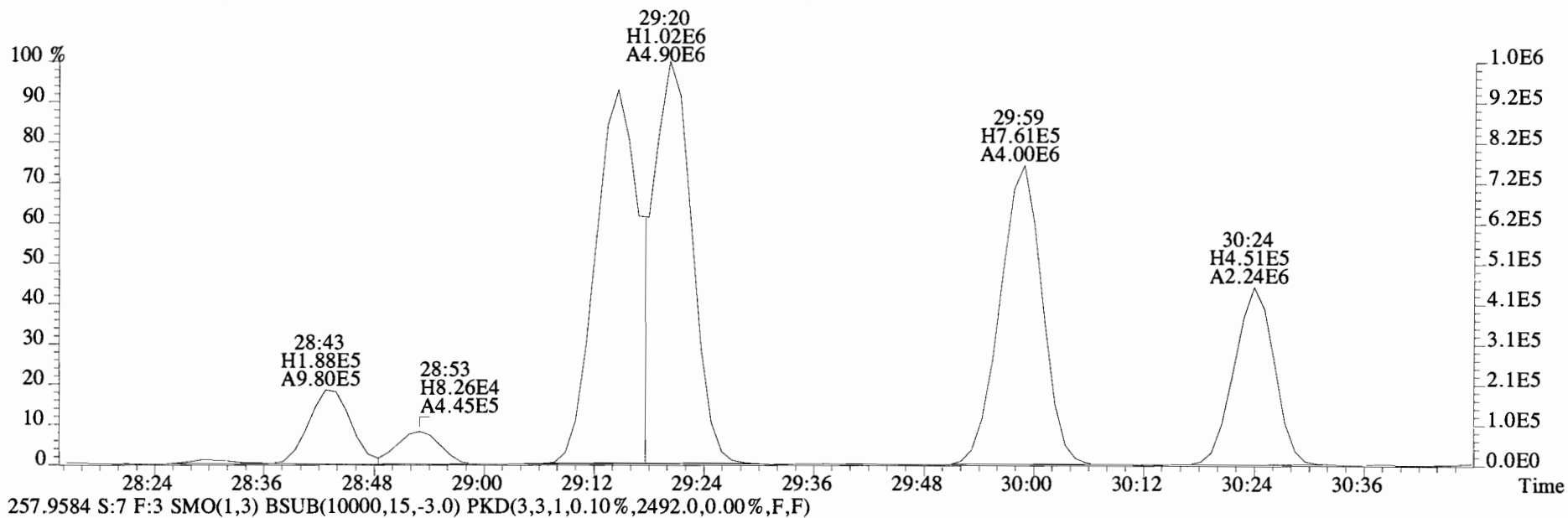
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,59644.0,0.00%,F,F)



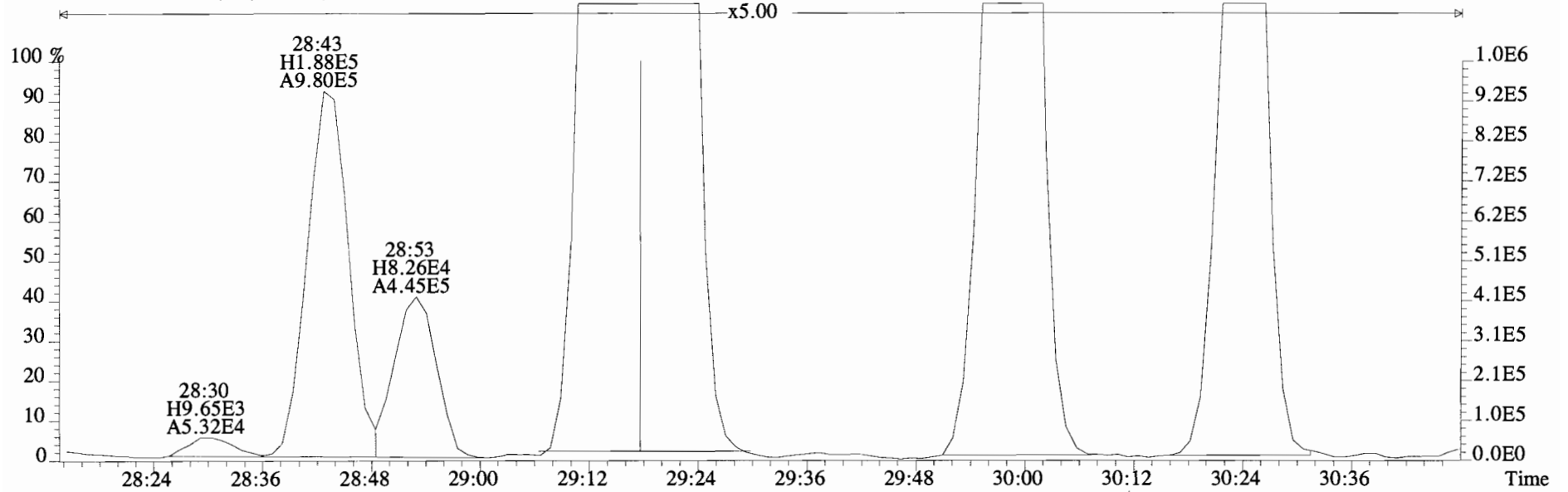
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3436.0,0.00%,F,F)



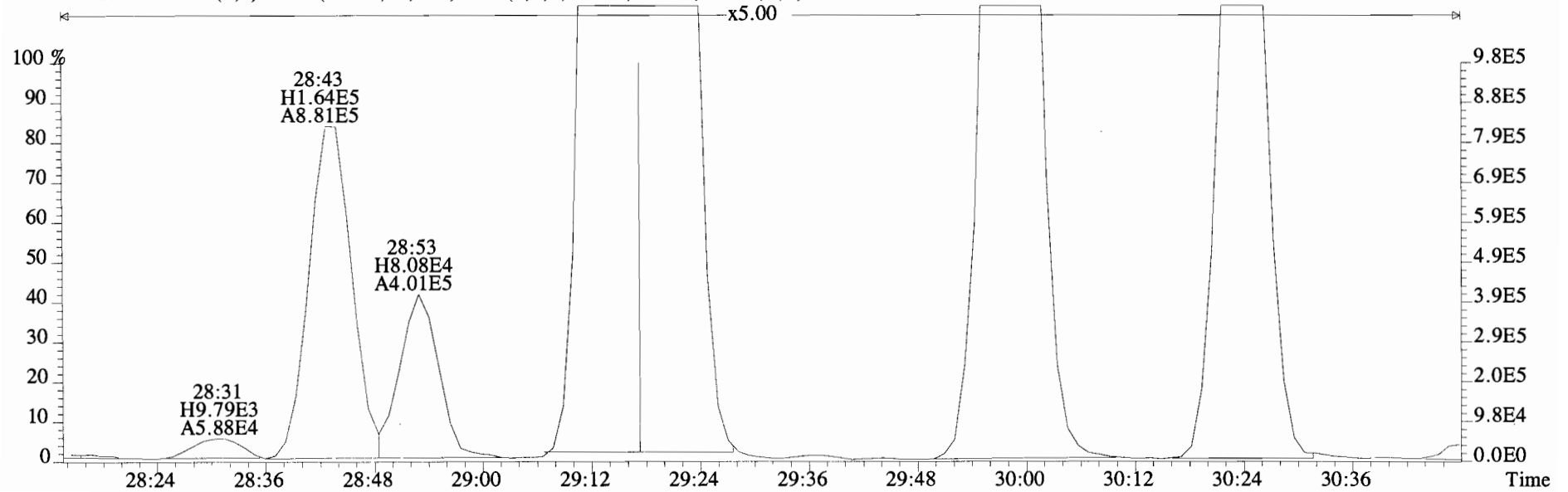
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3436.0,0.00%,F,F)



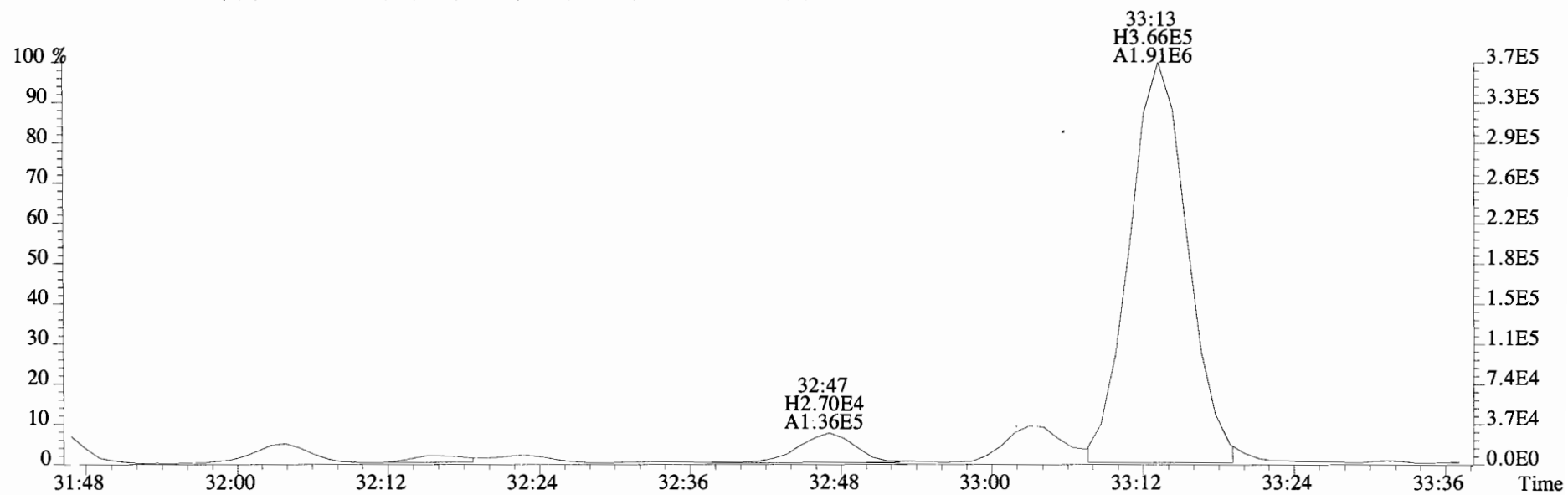
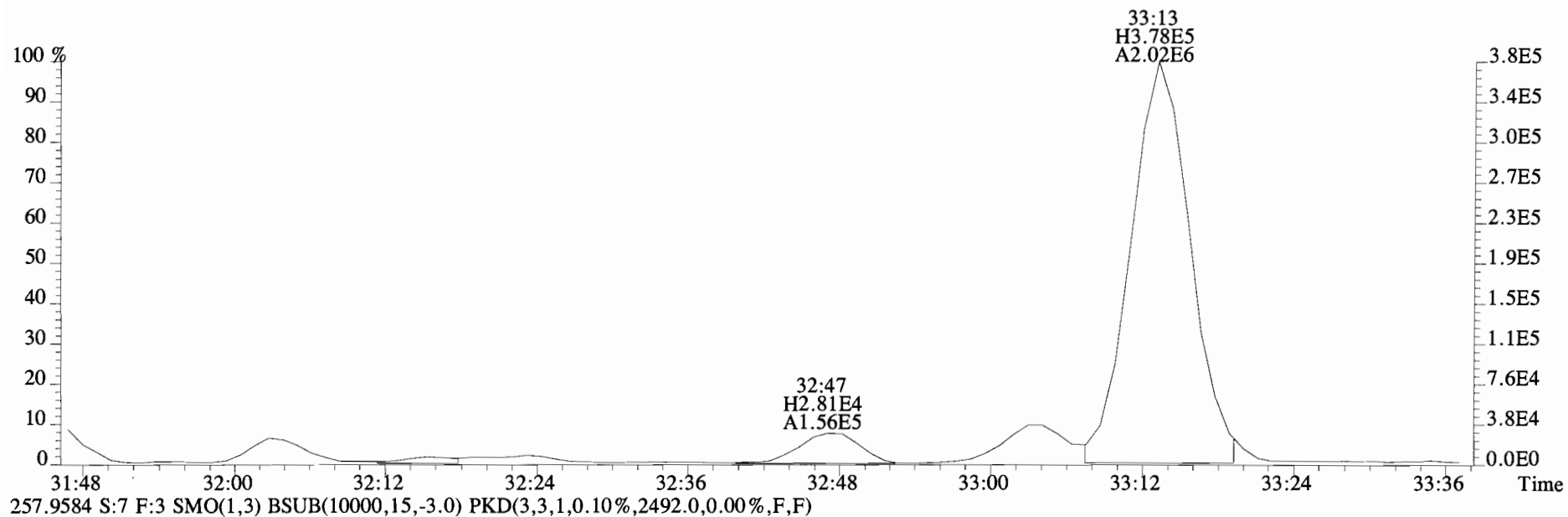
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3436.0,0.00%,F,F)



257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2492.0,0.00%,F,F)

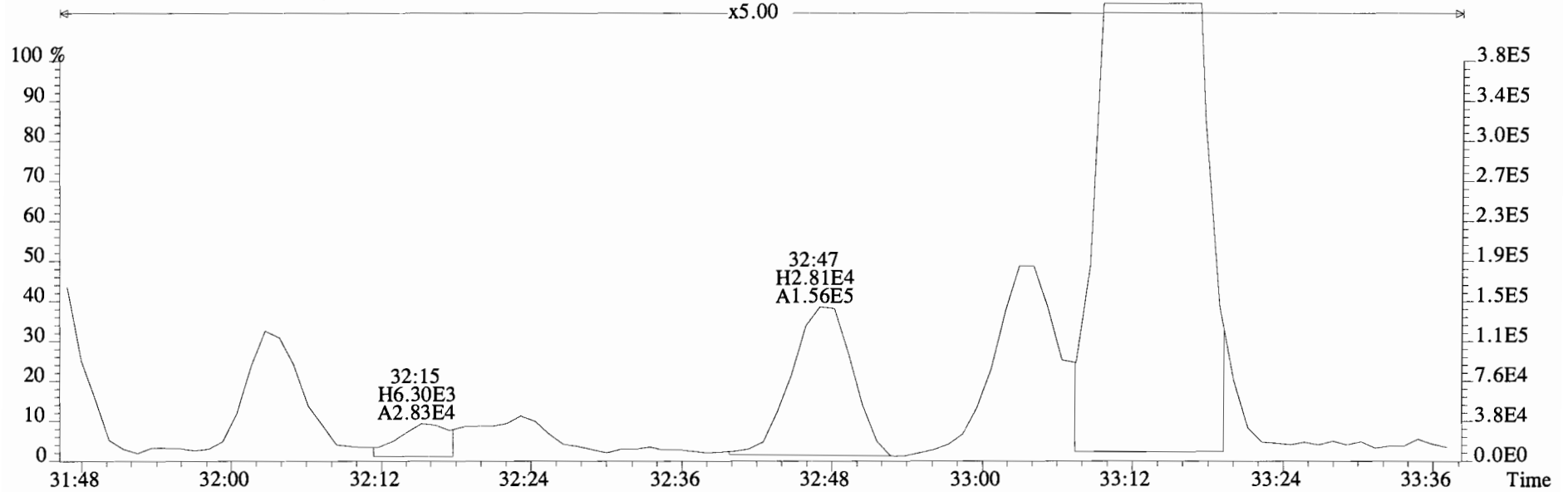


File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3436.0,0.00%,F,F)

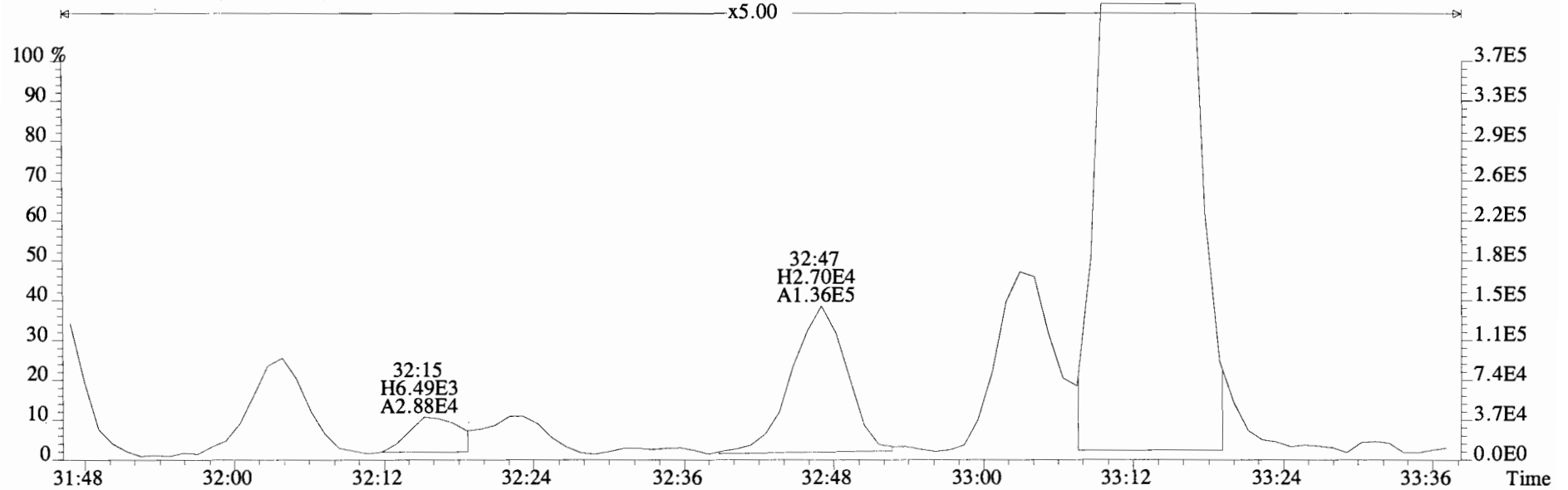




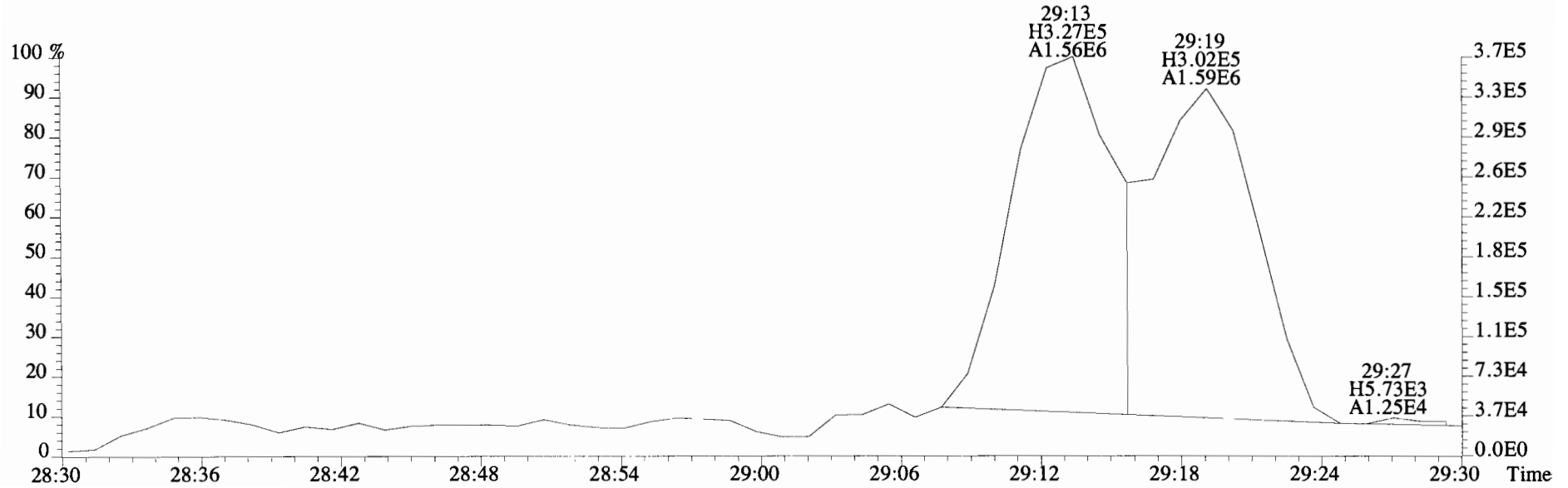
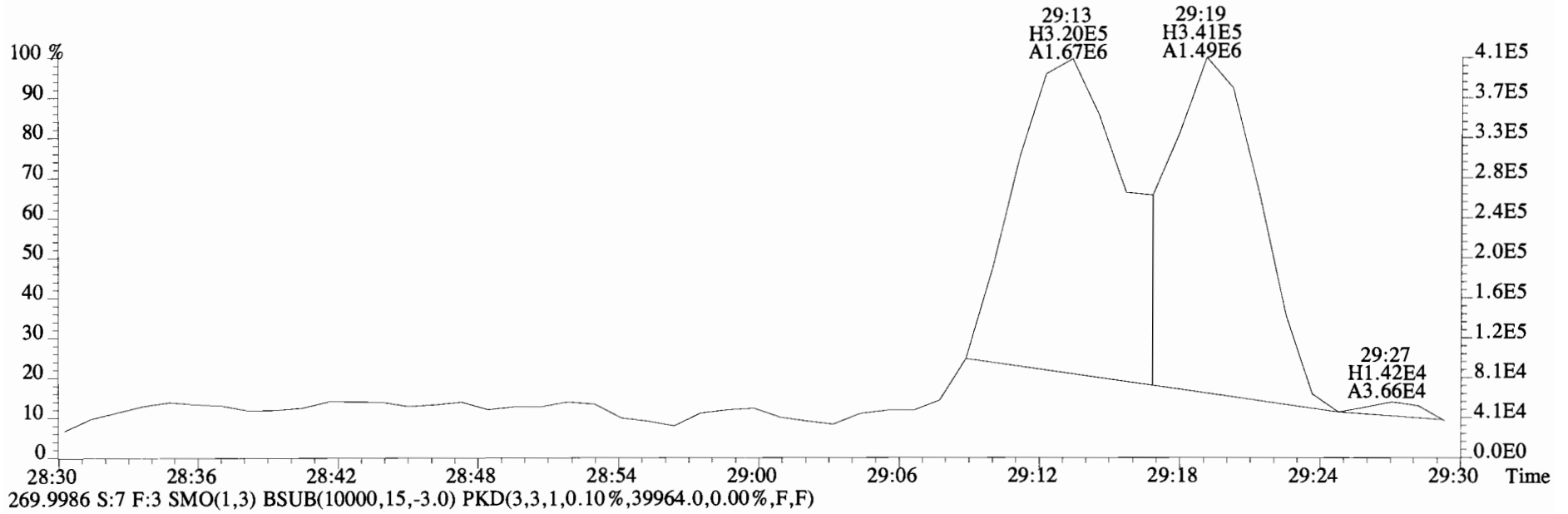
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3436.0,0.00%,F,F)



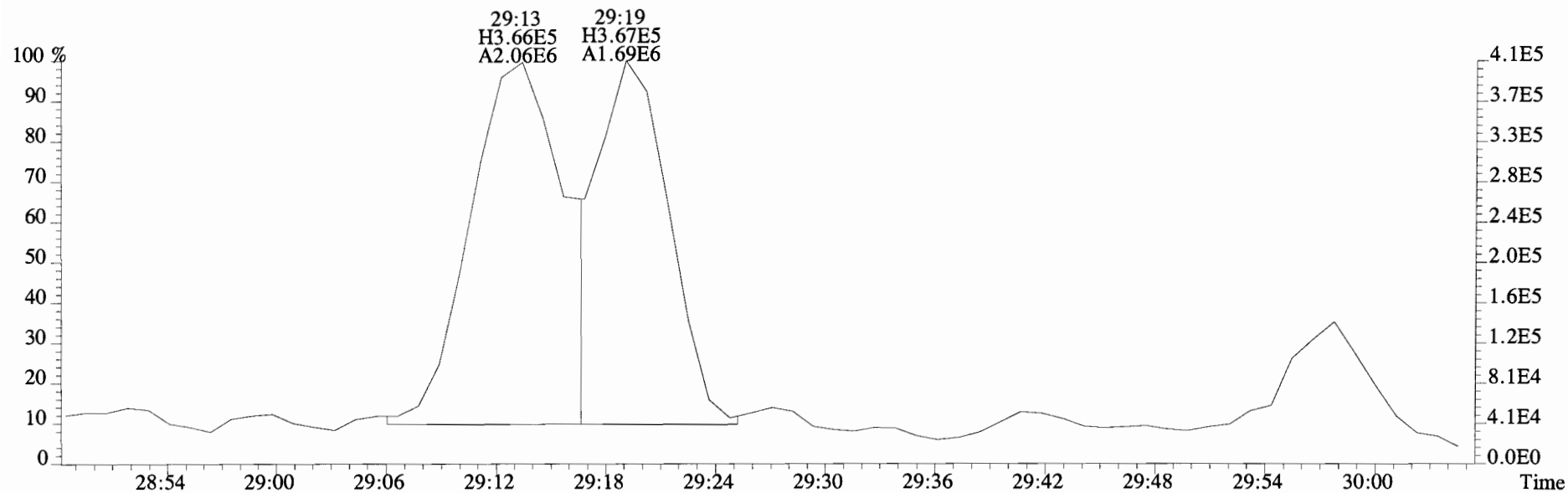
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2492.0,0.00%,F,F)



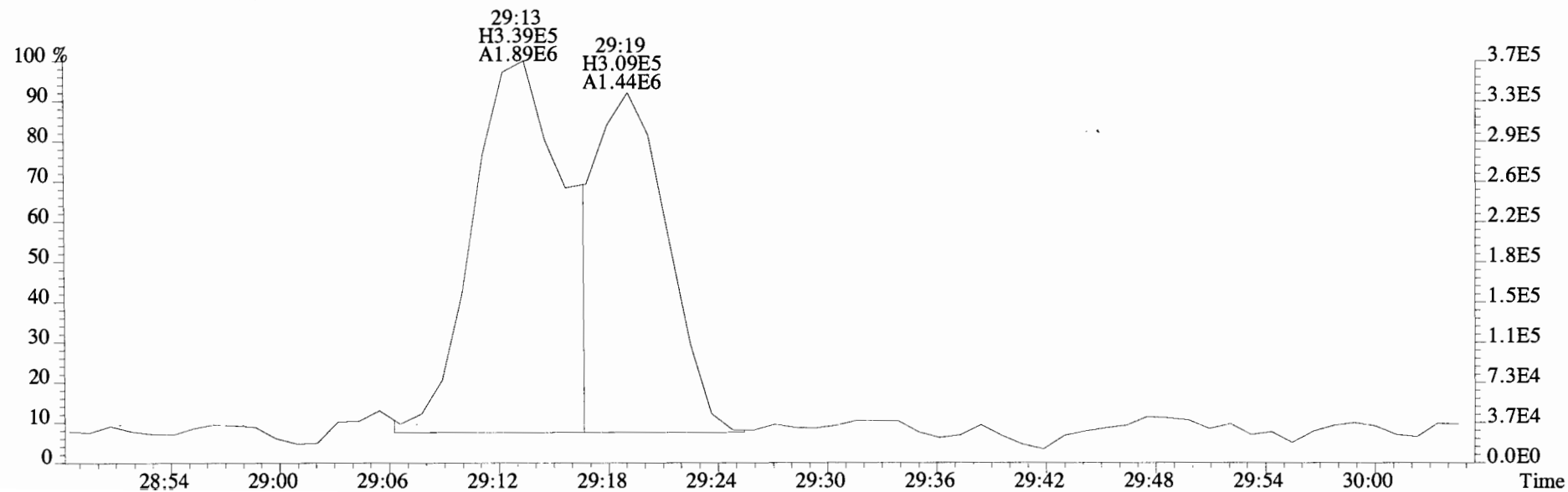
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56360.0,0.00%,F,F)



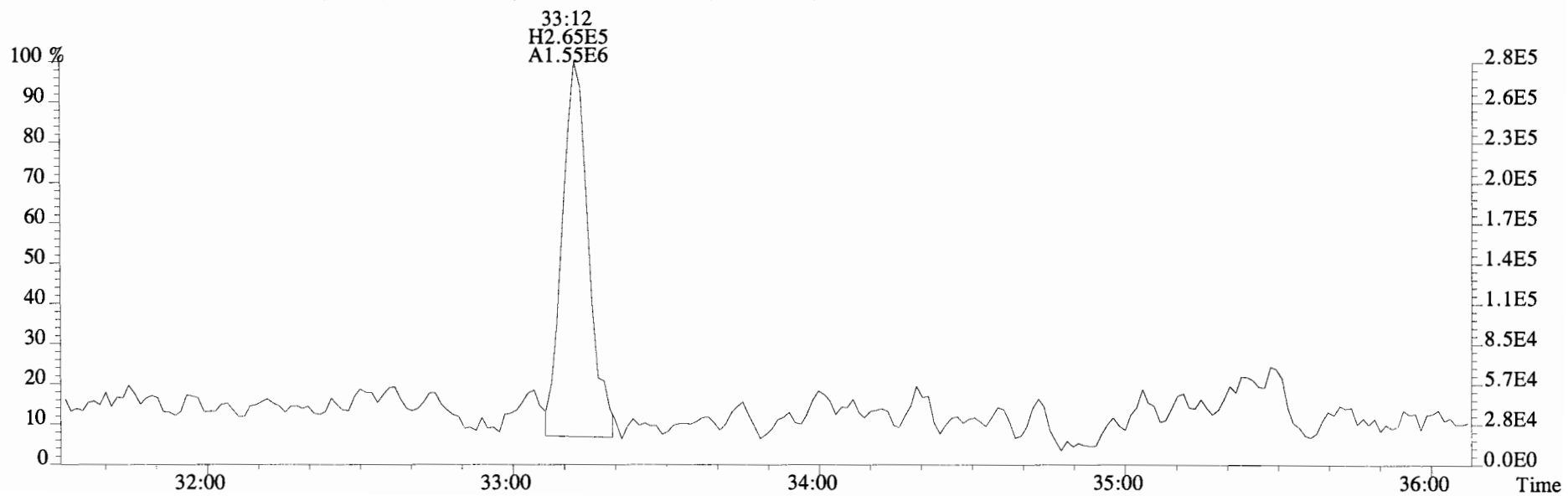
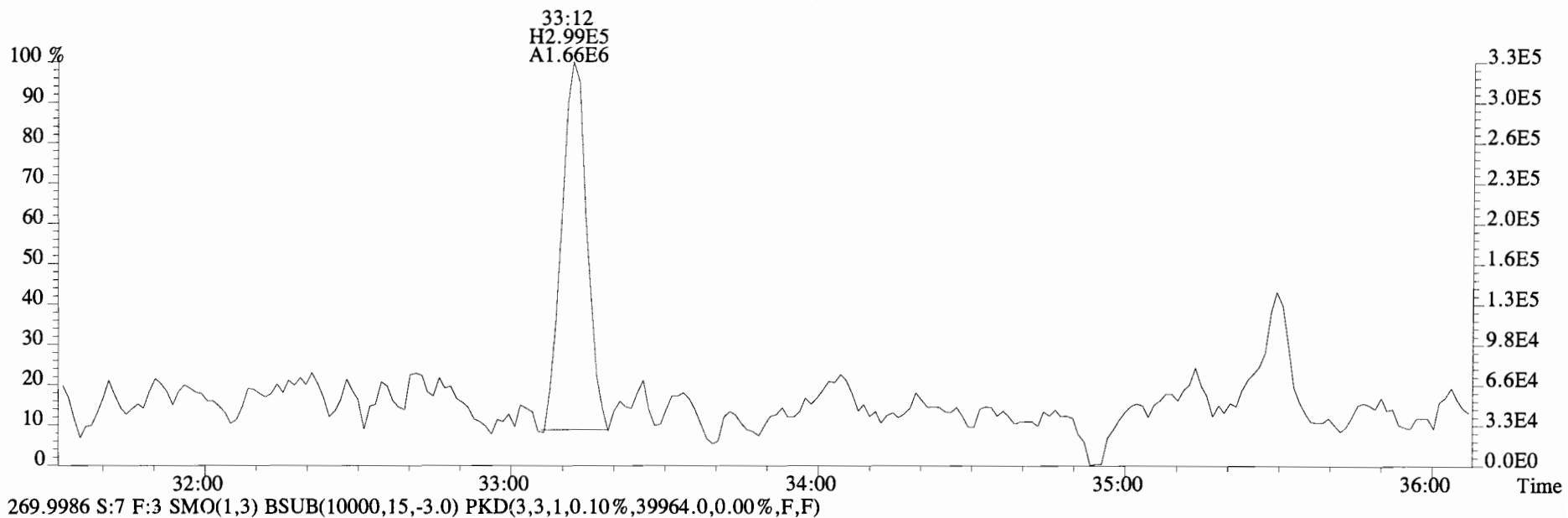
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56360.0,0.00%,F,F)



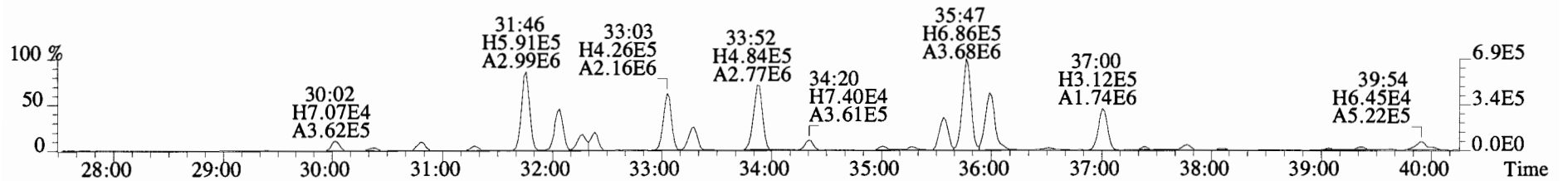
269.9986 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,39964.0,0.00%,F,F)



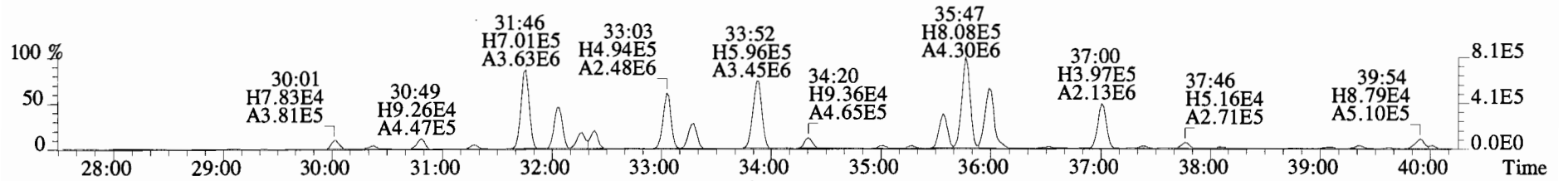
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,56360.0,0.00%,F,F)



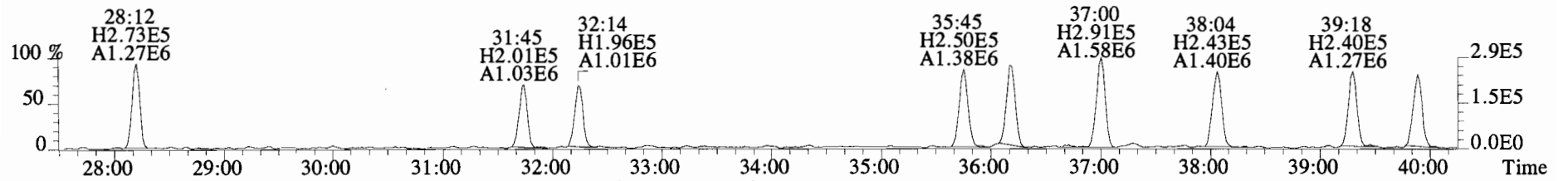
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



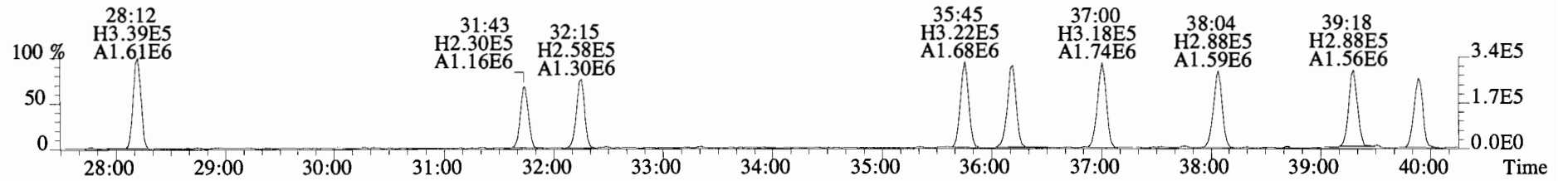
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3192.0,0.00%,F,F)



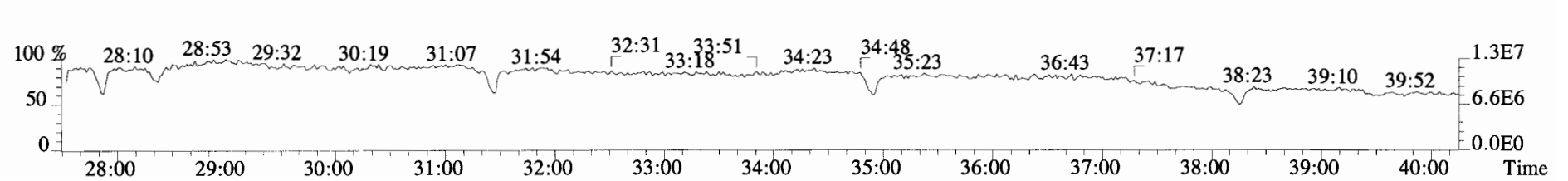
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6308.0,0.00%,F,F)



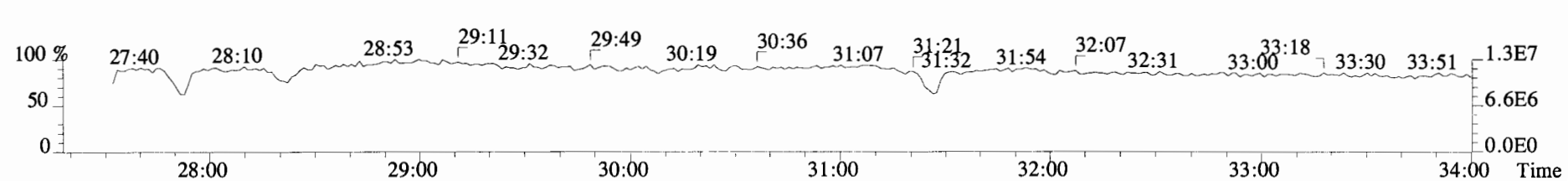
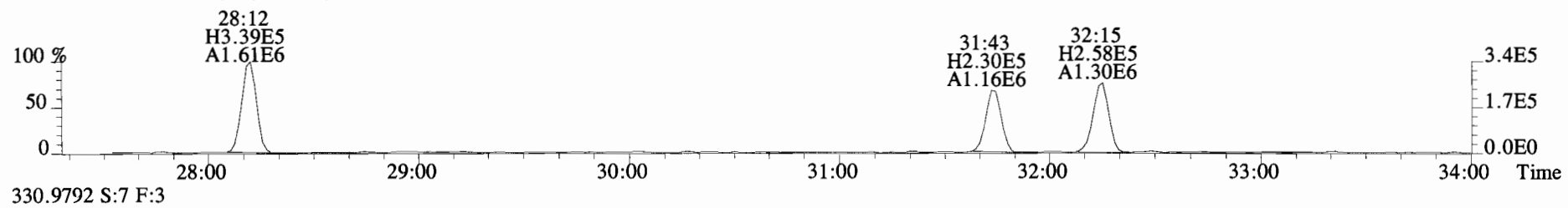
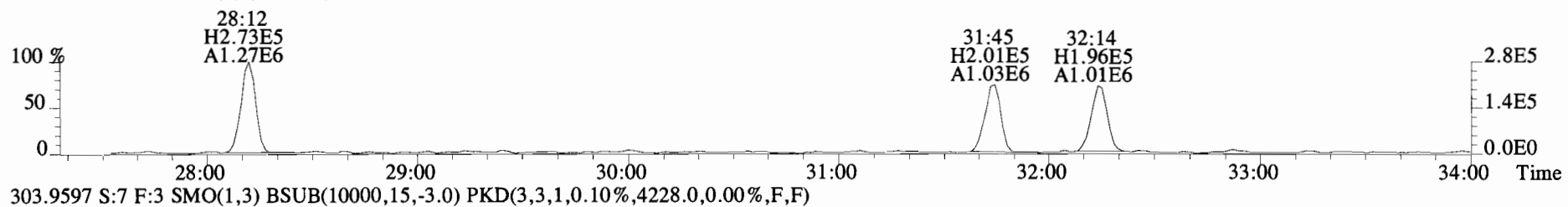
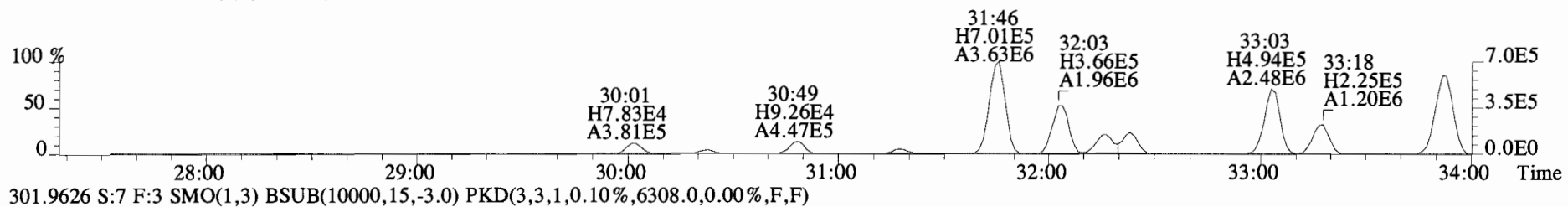
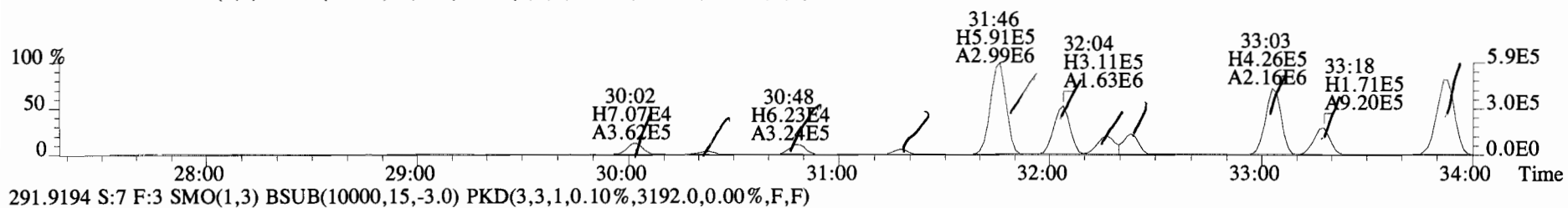
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4228.0,0.00%,F,F)



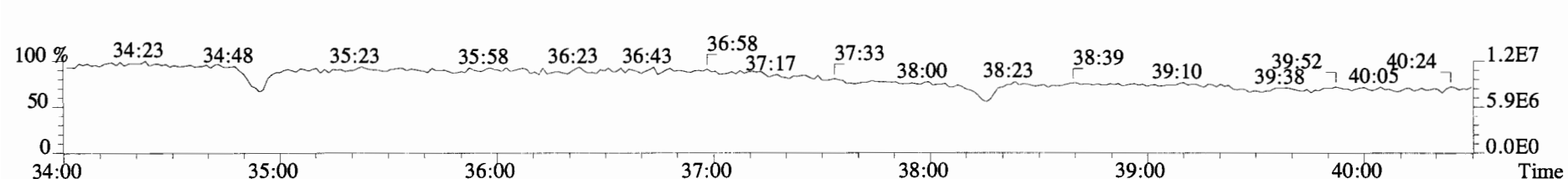
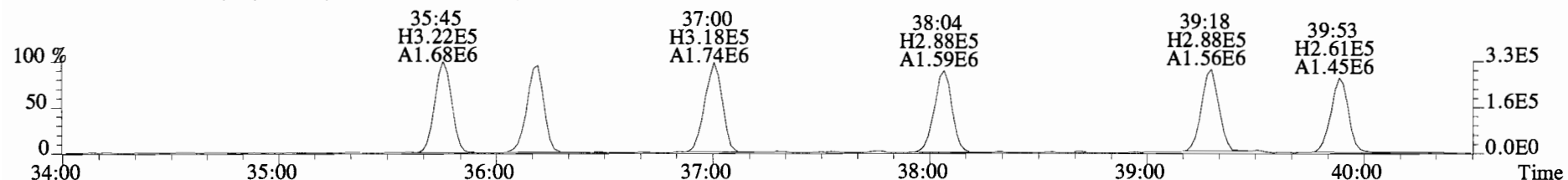
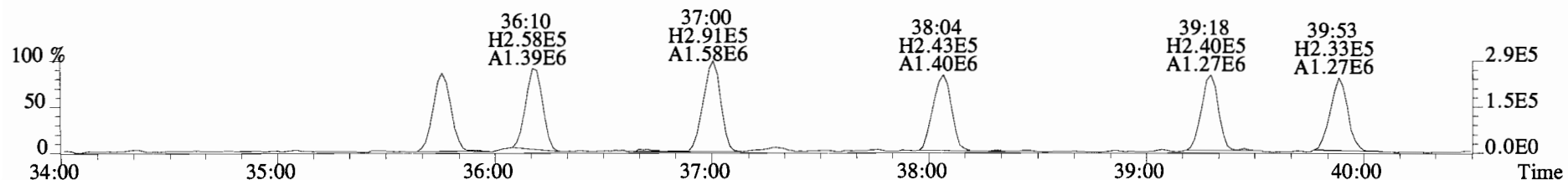
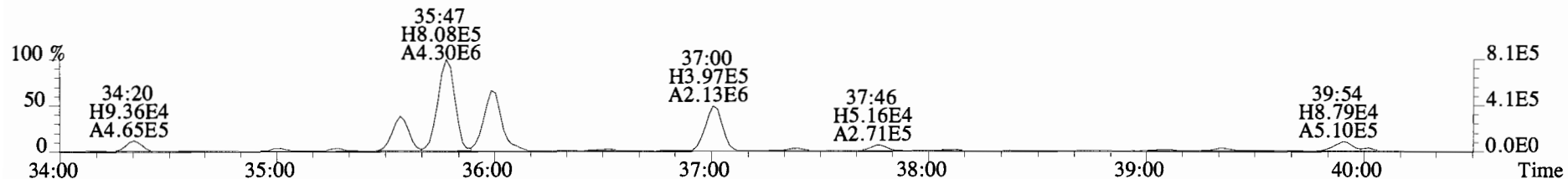
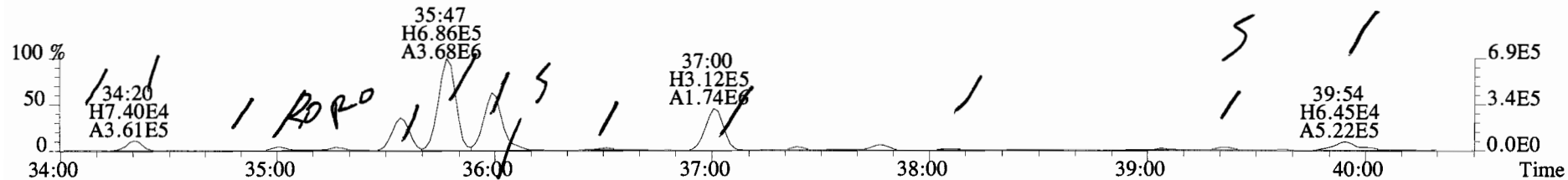
330.9792 S:7 F:3



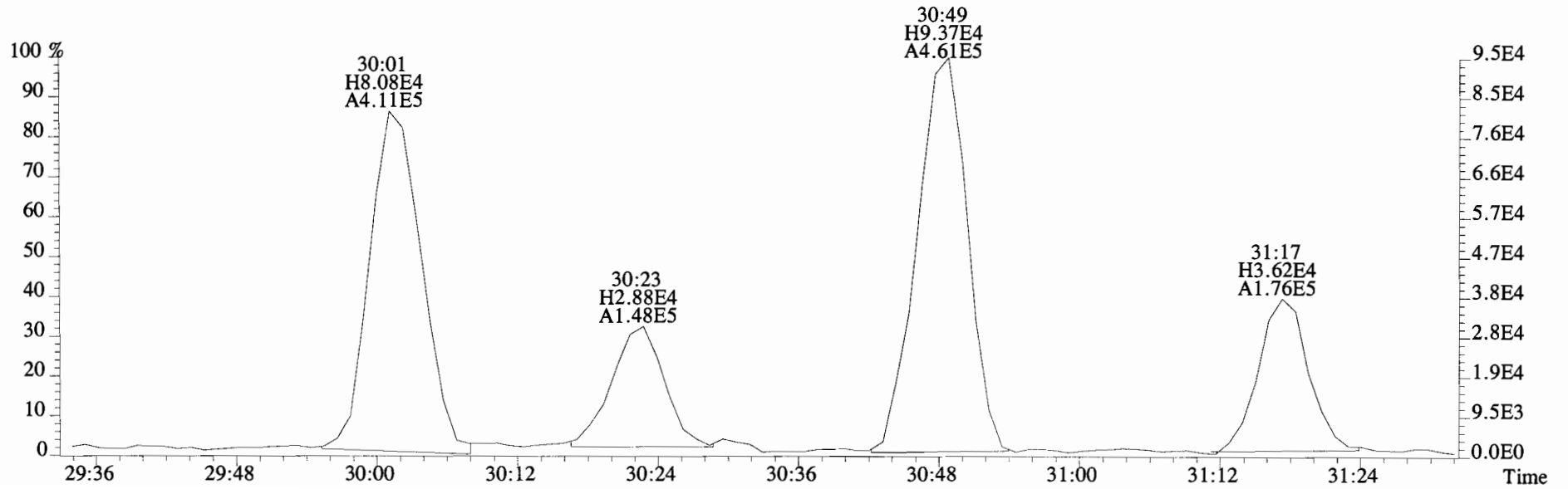
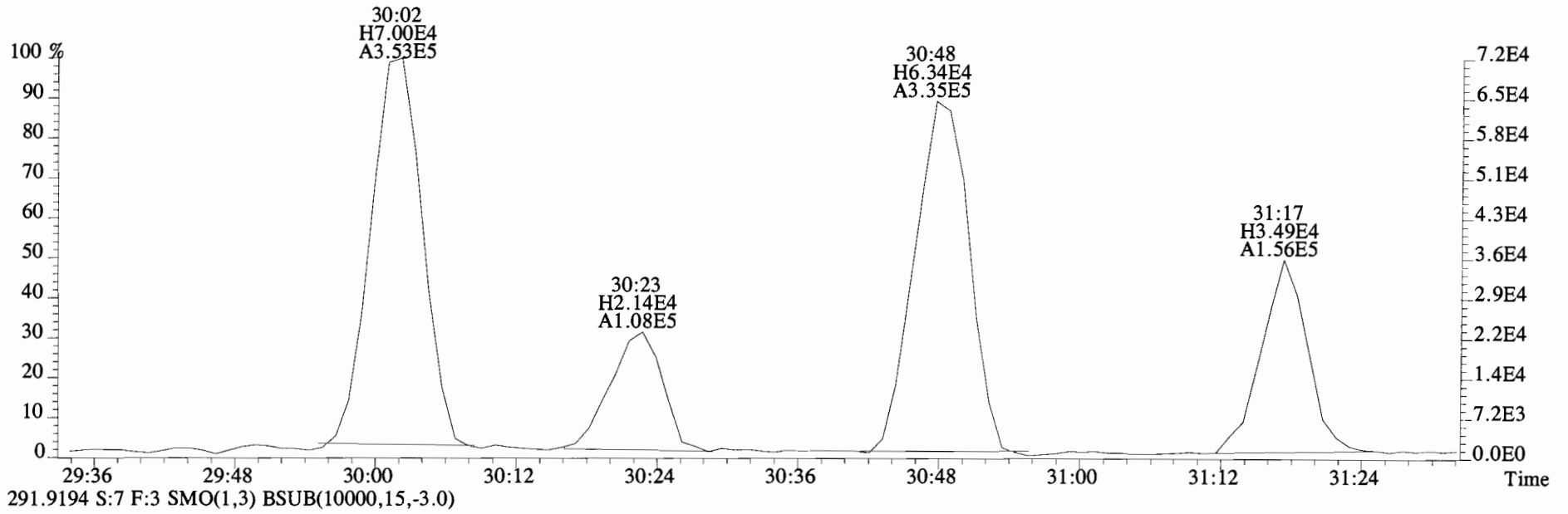
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)

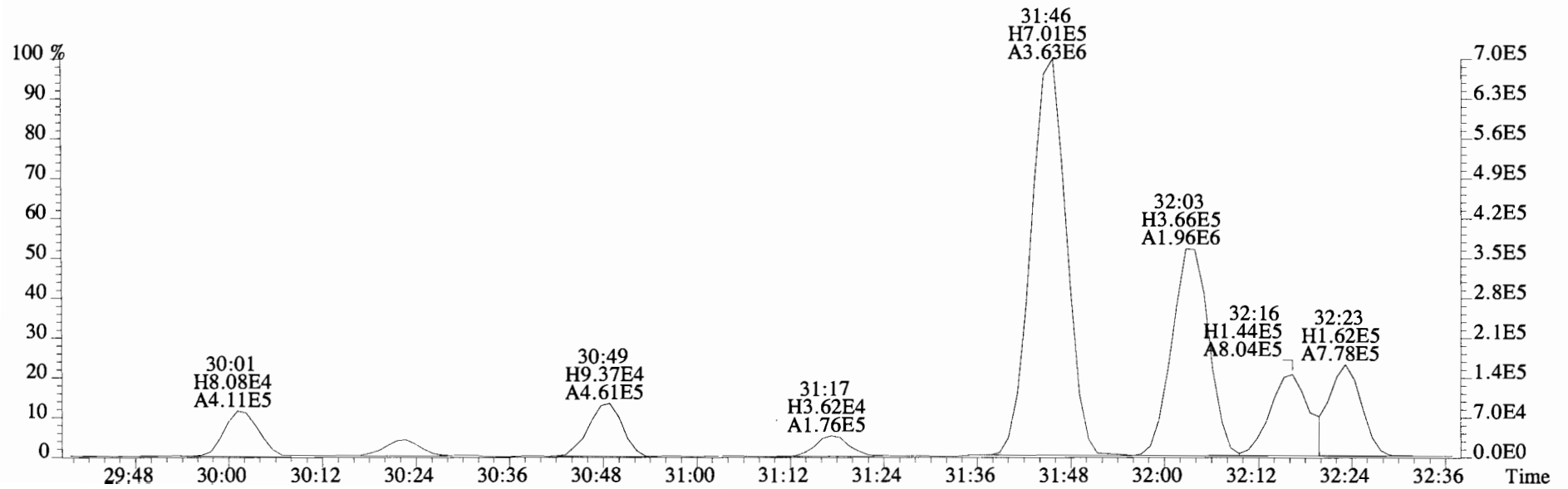
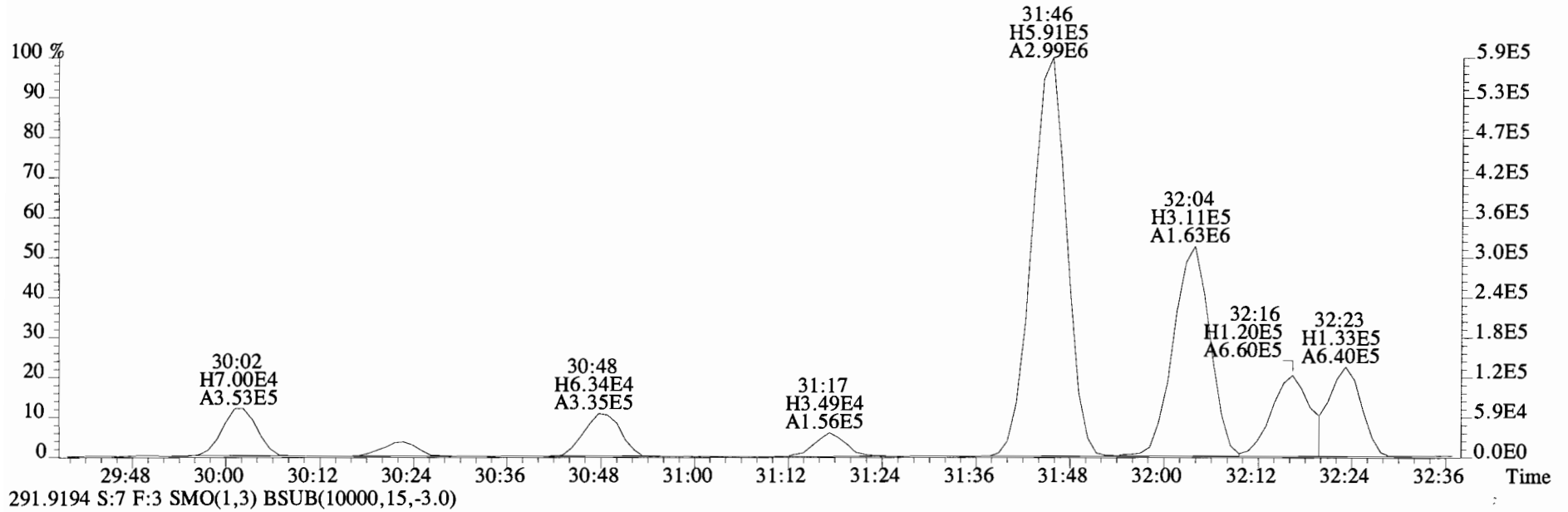


File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)

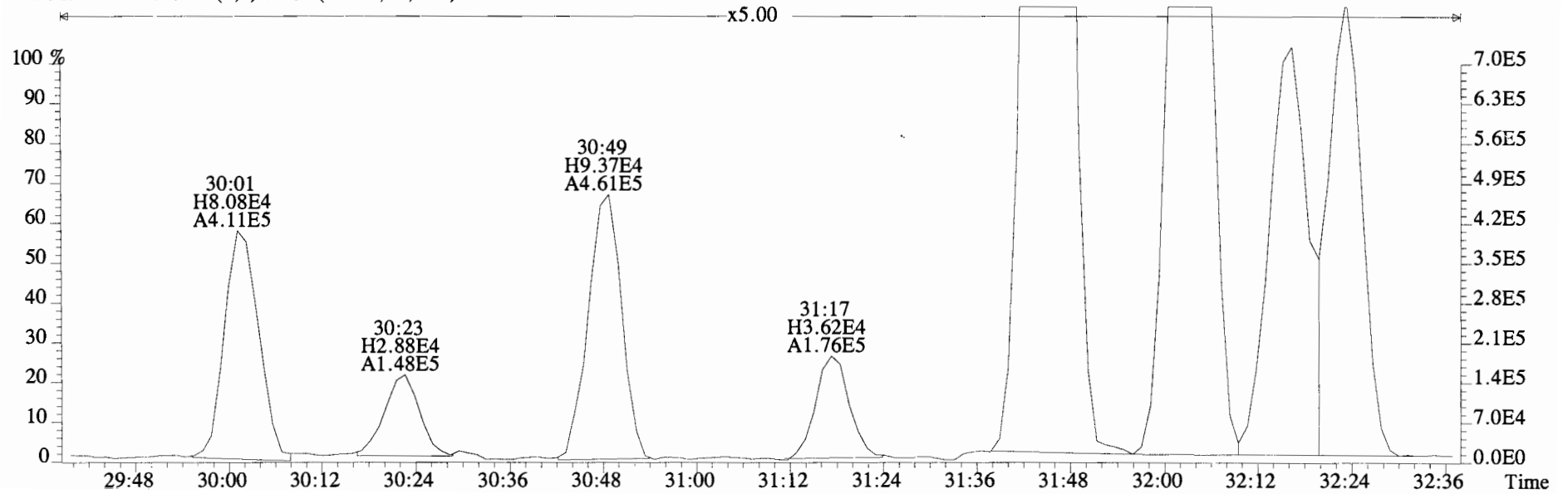
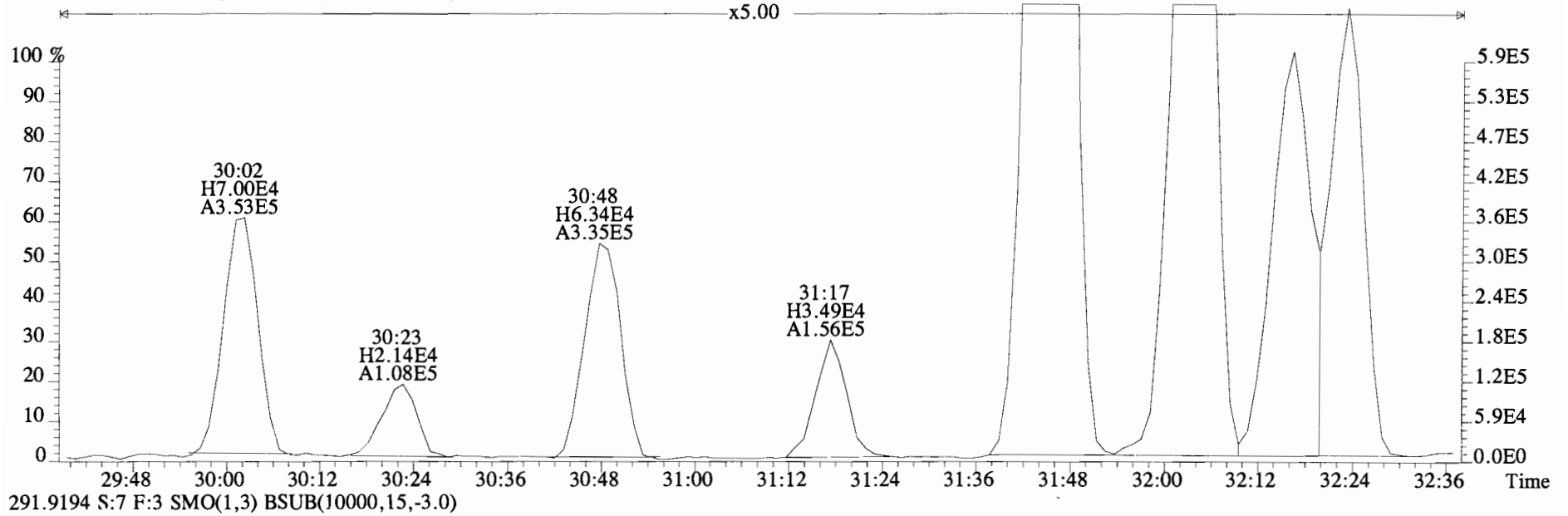




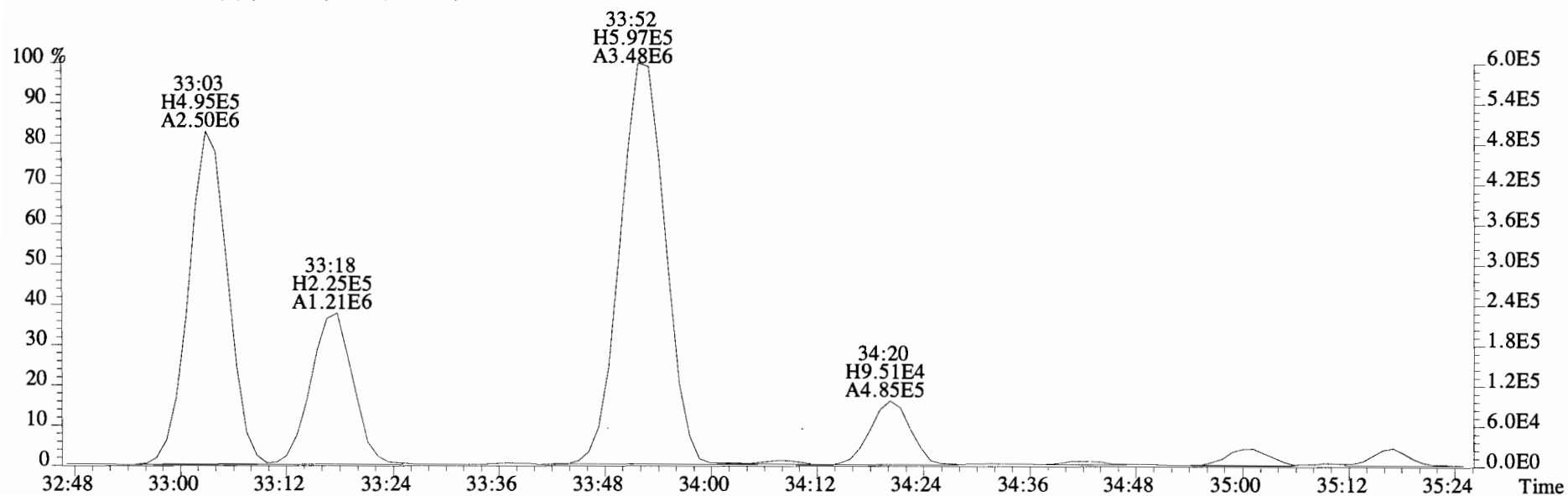
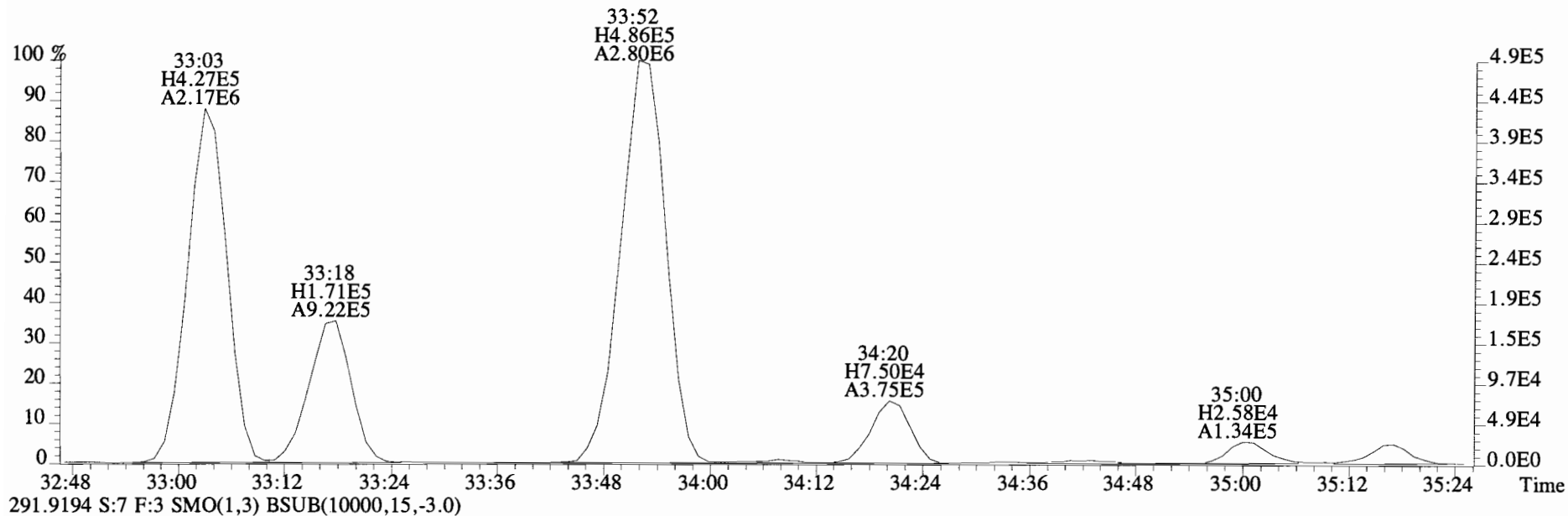
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



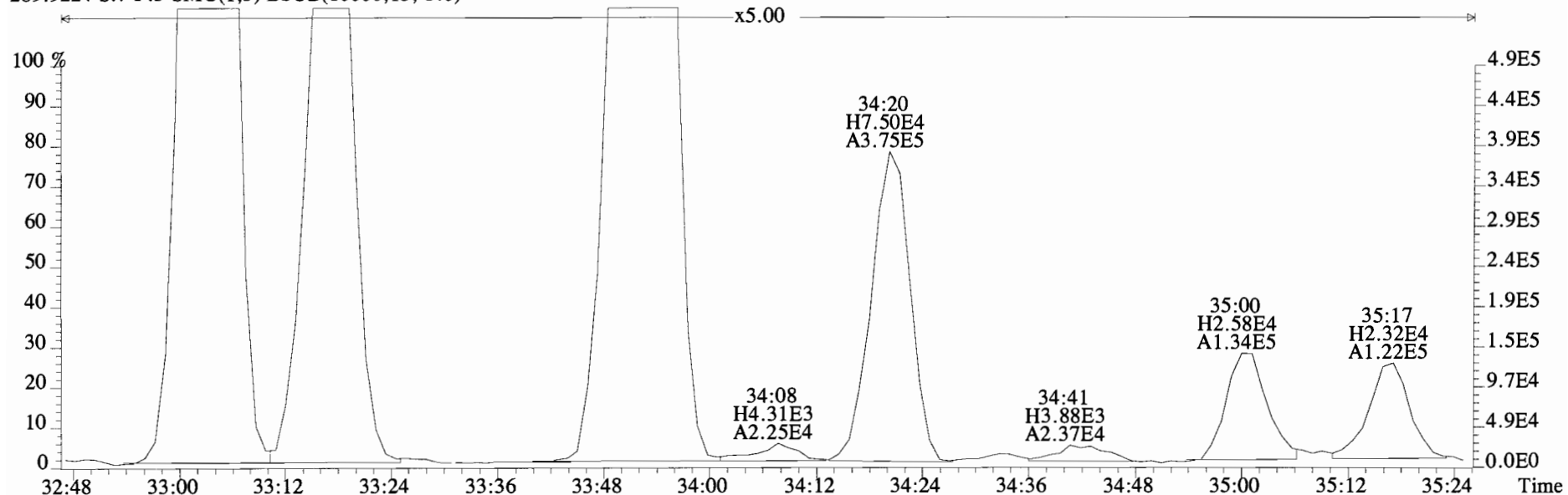
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



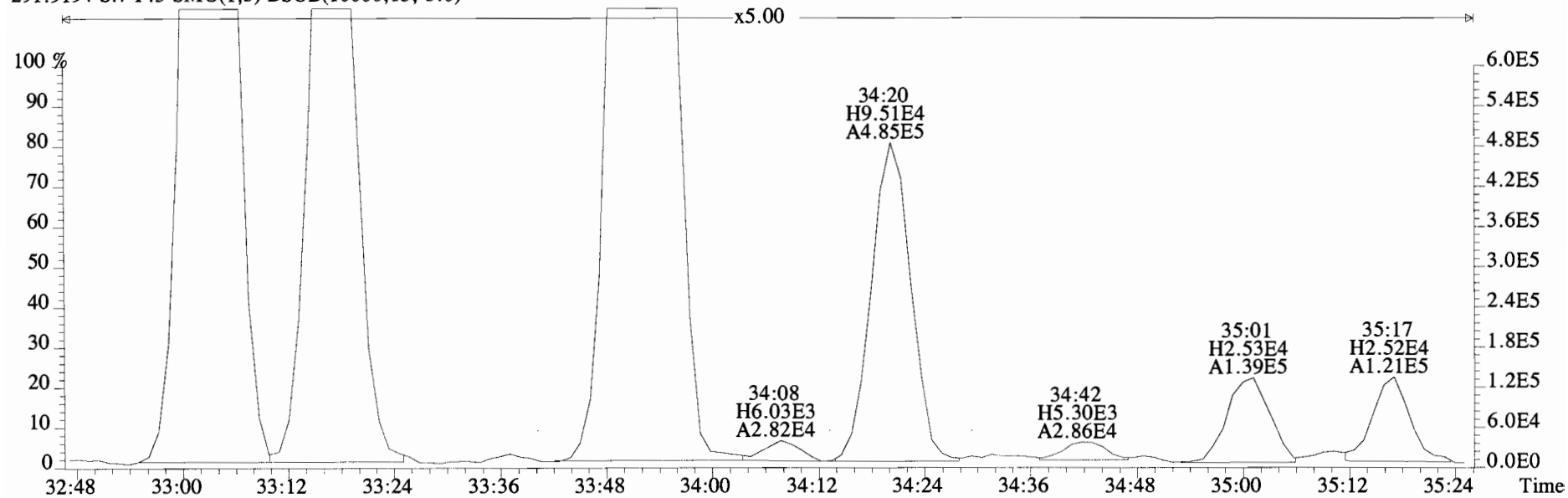
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



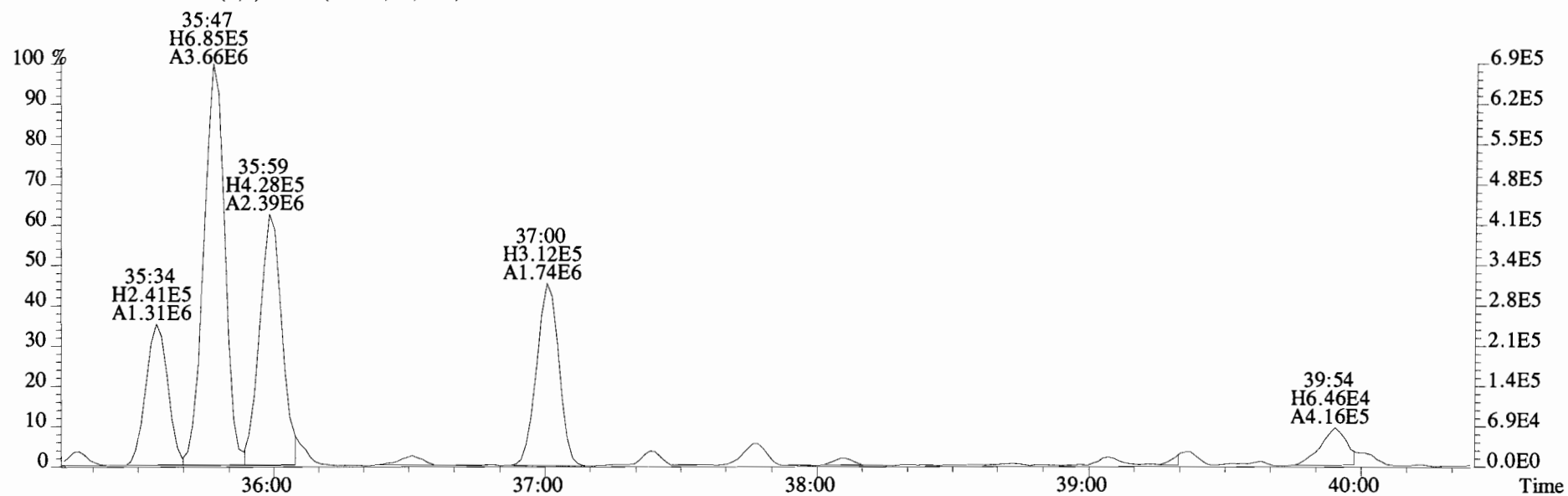
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



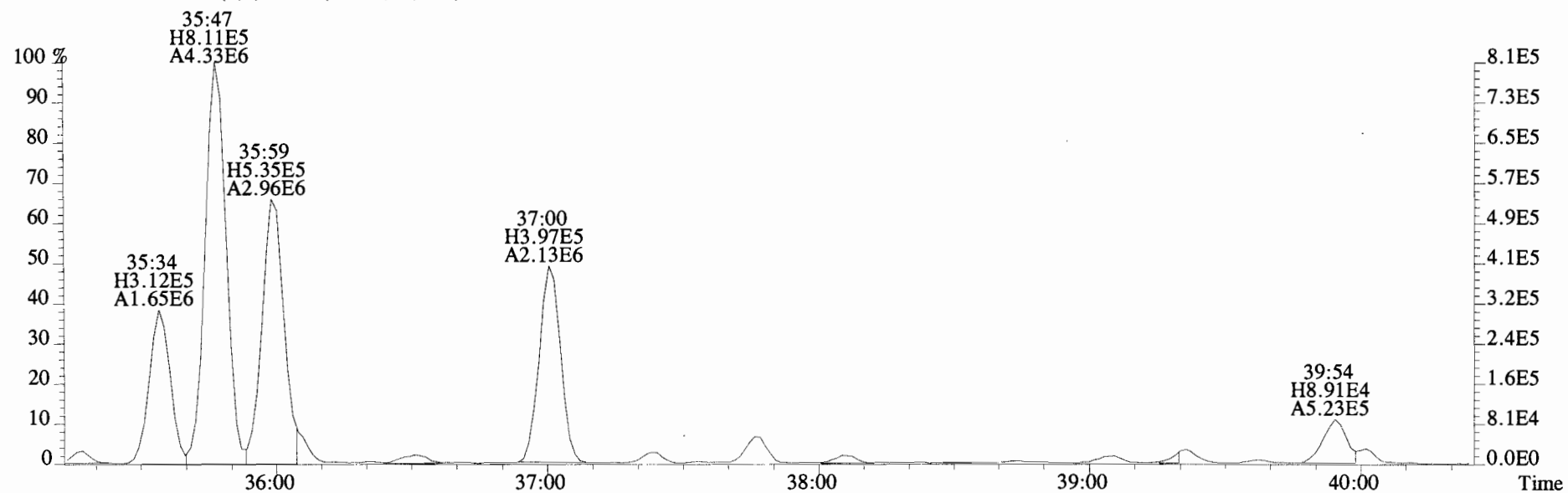
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



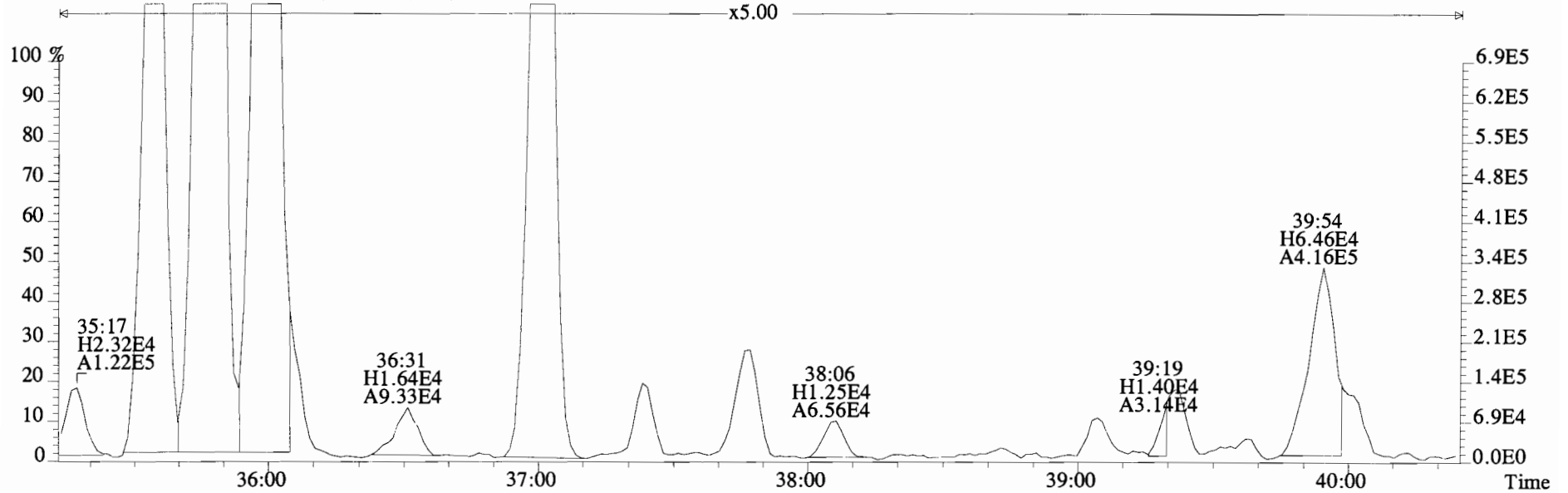
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



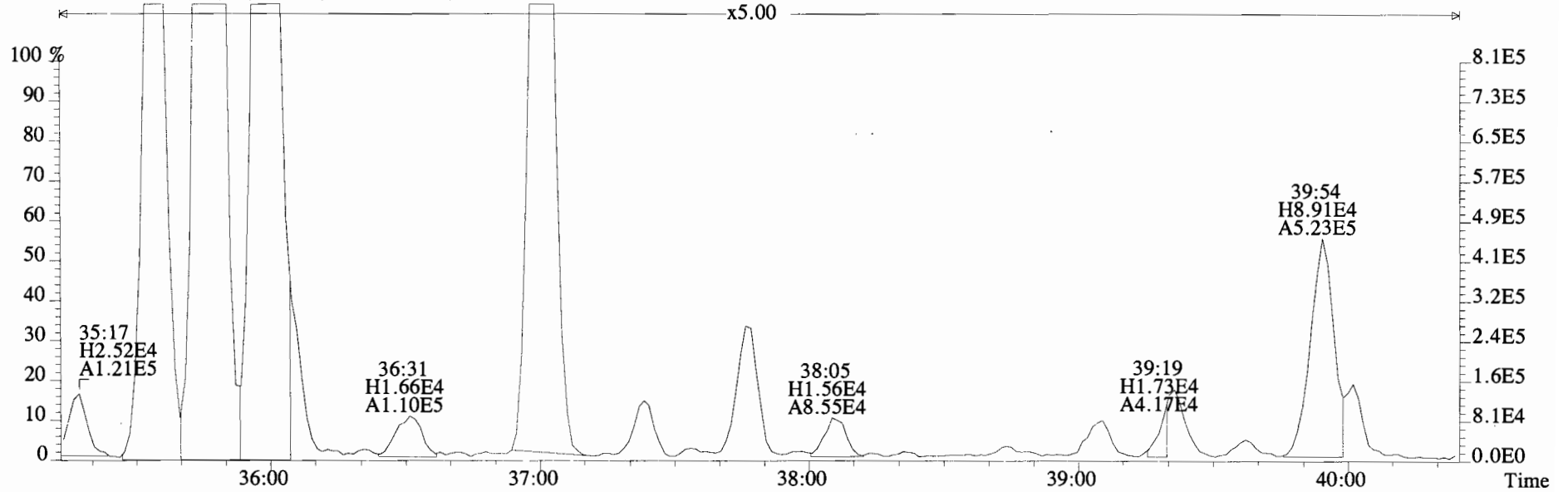
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



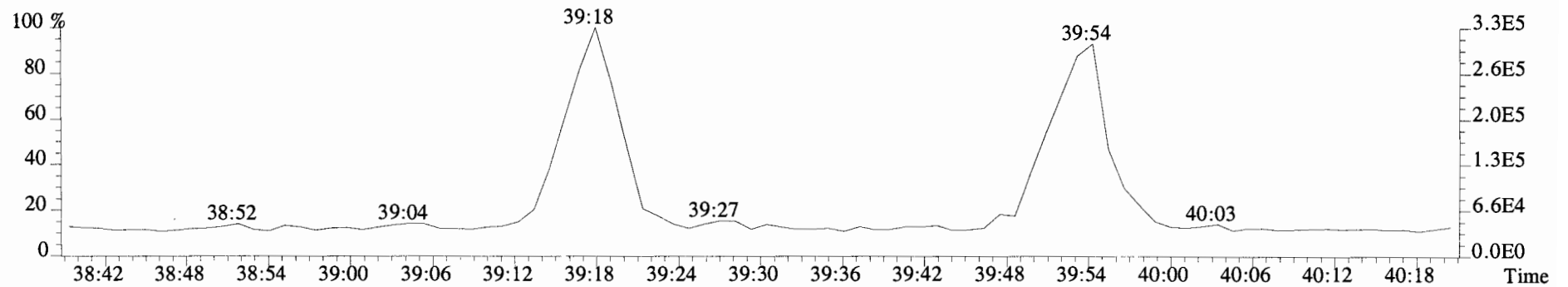
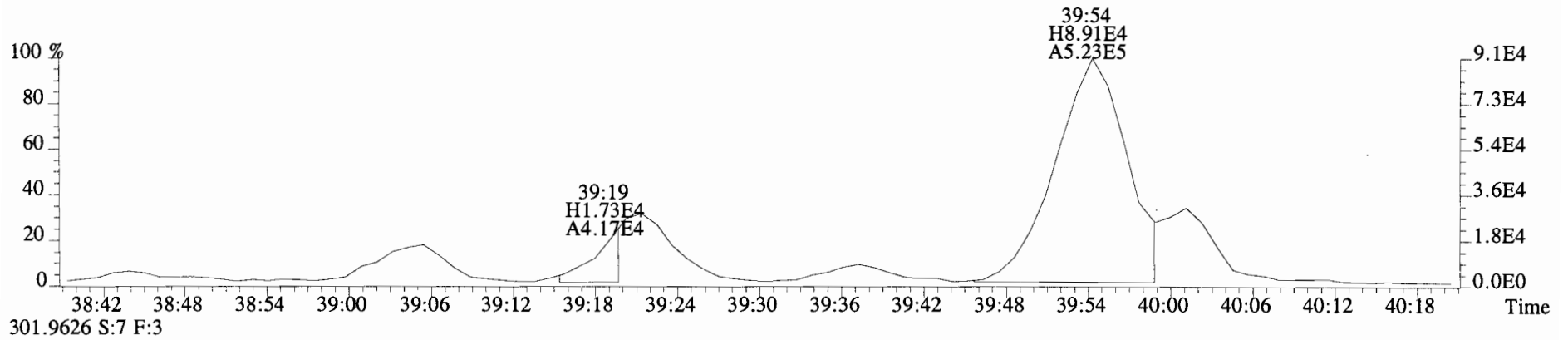
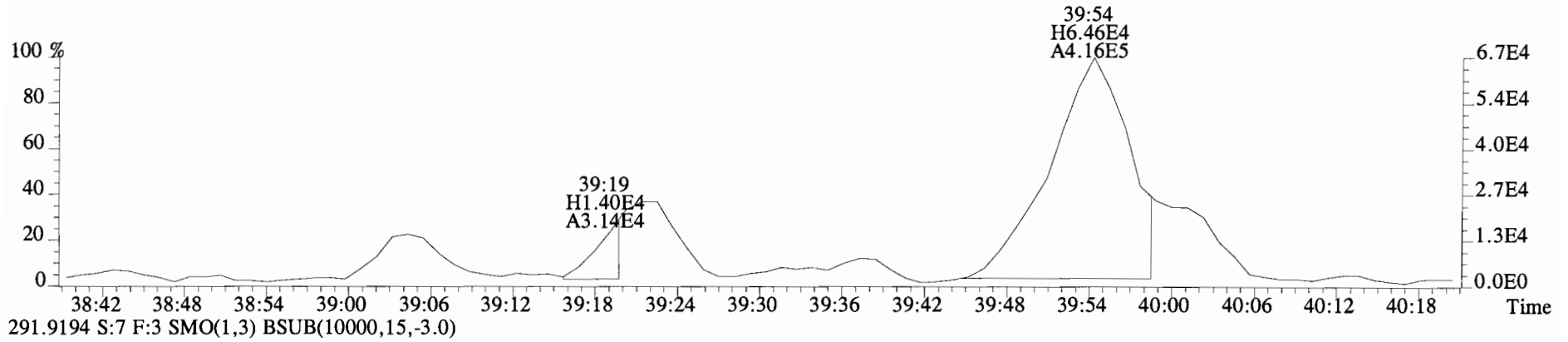
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289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



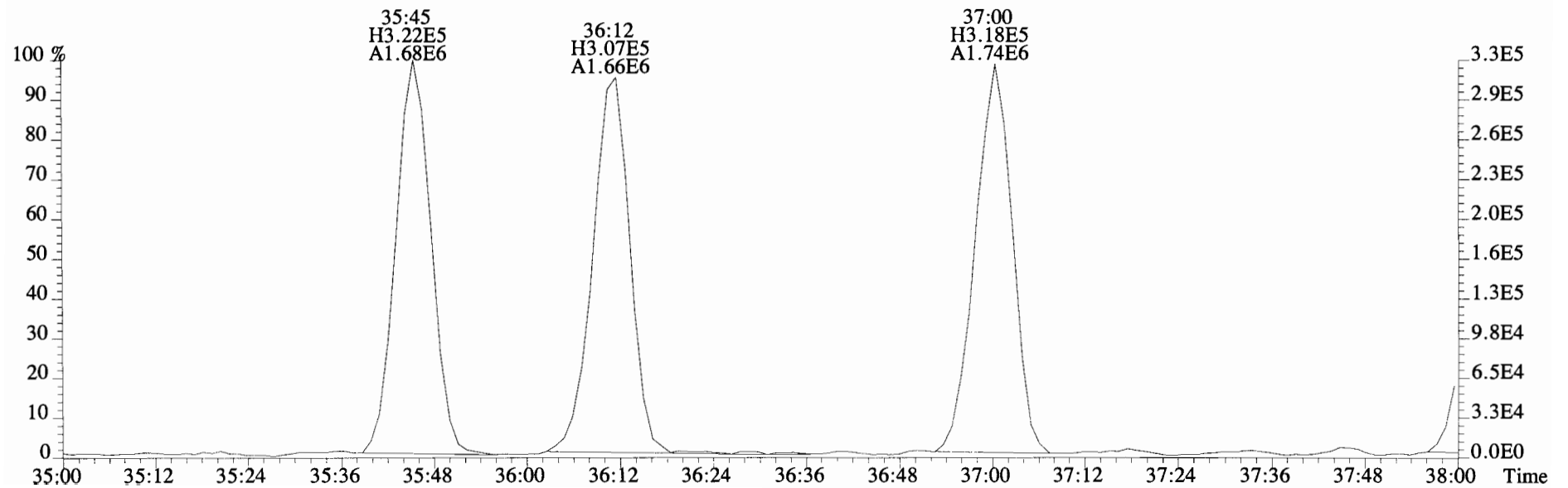
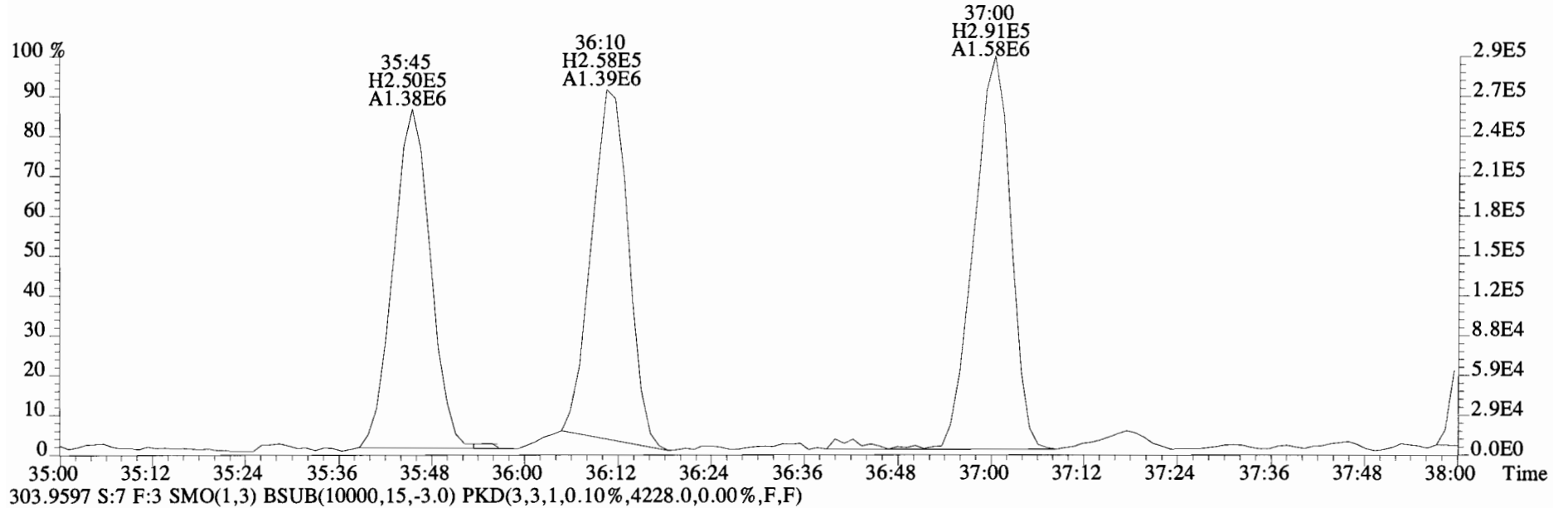
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)

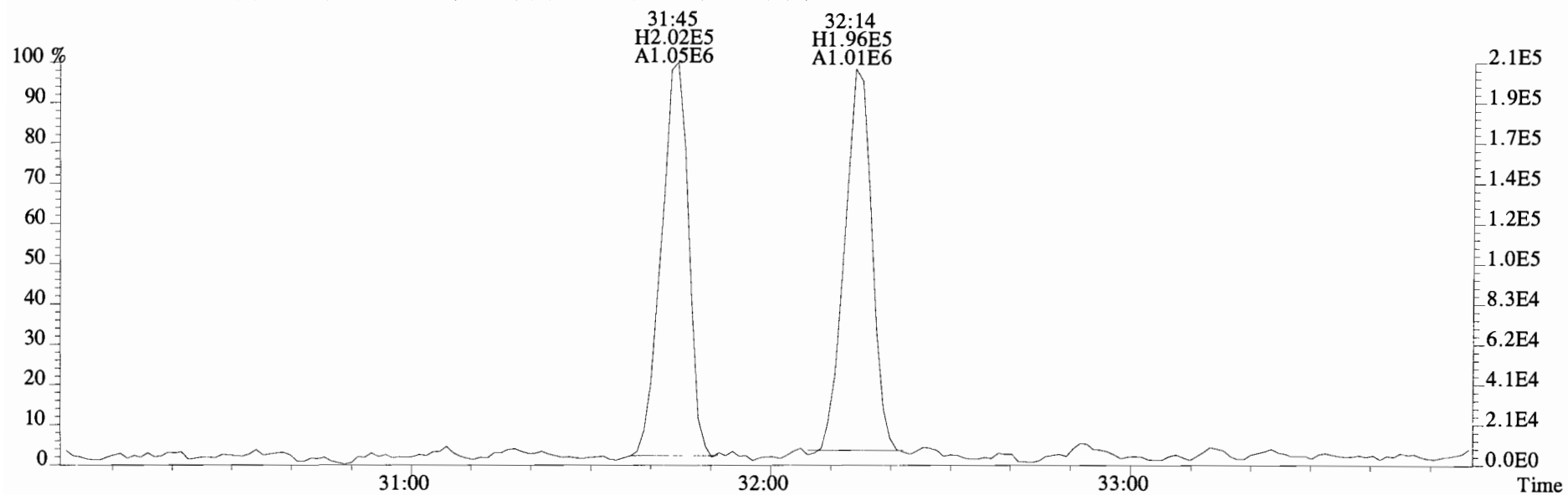


File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6308.0,0.00%,F,F)

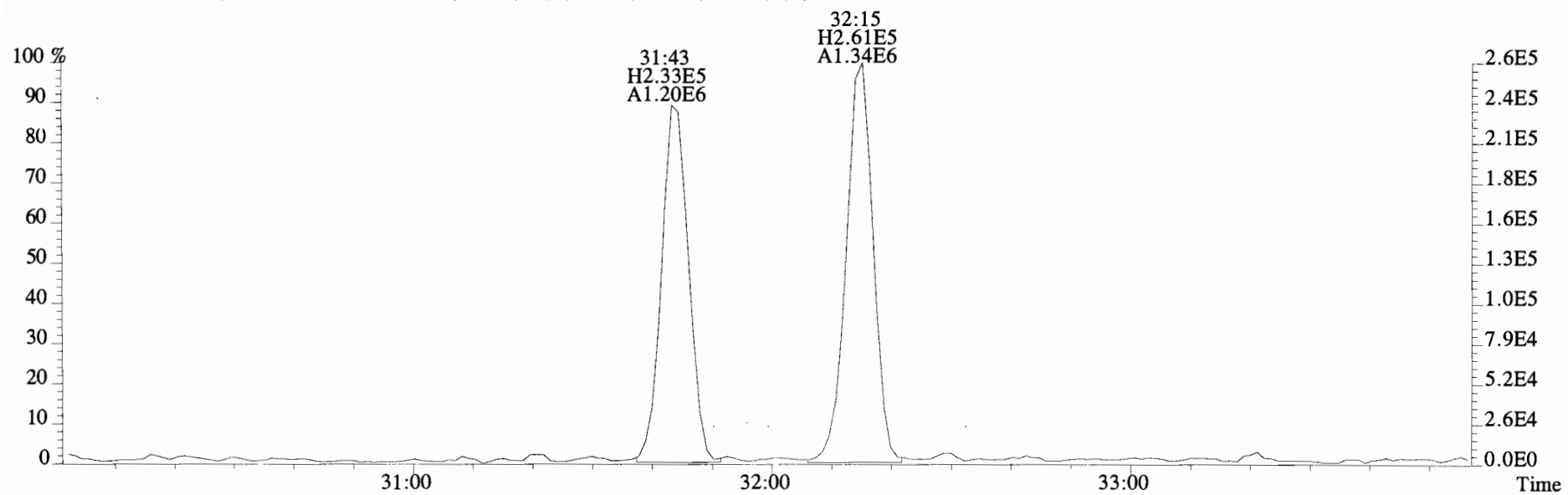




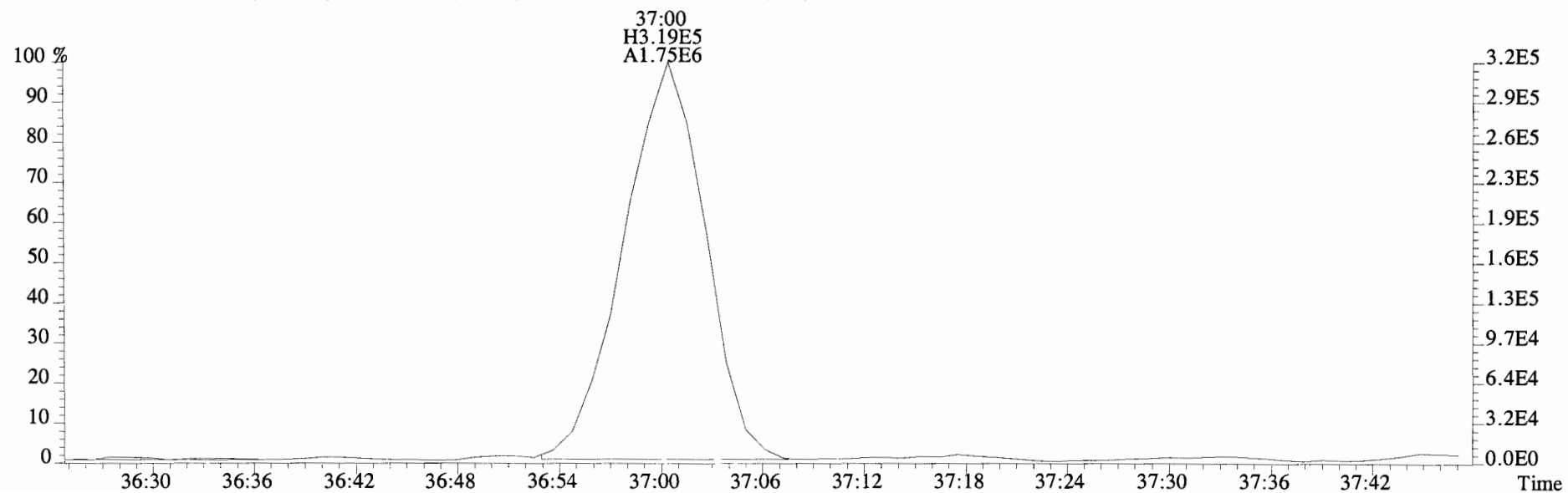
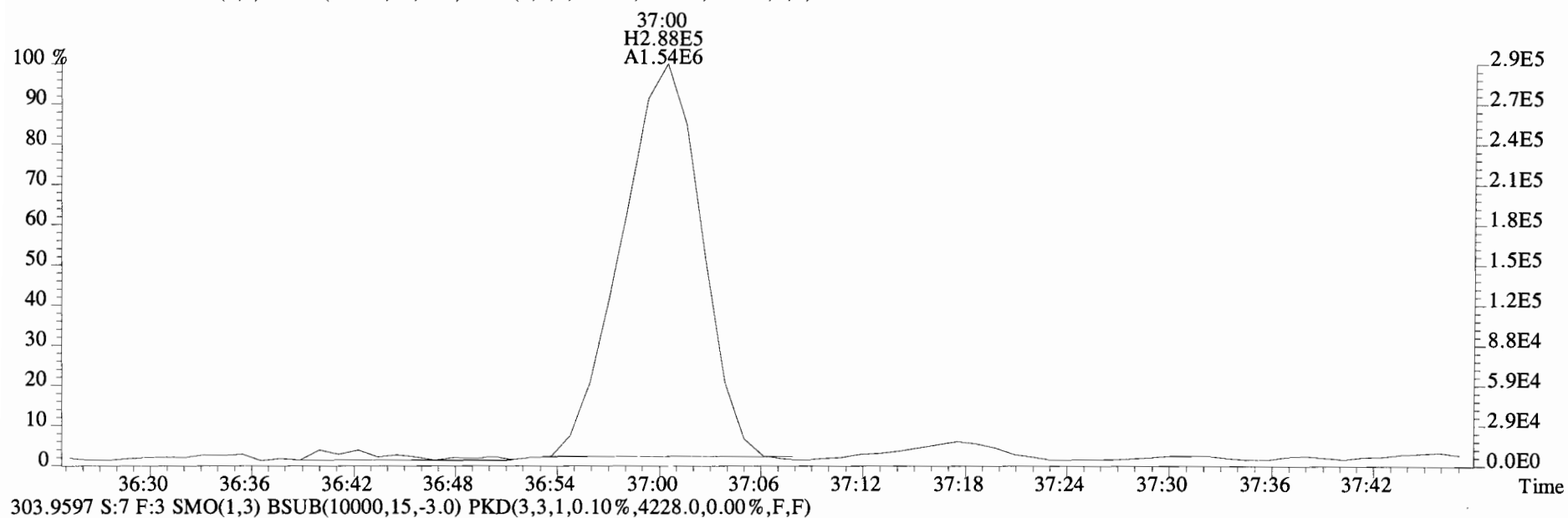
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6308.0,0.00%,F,F)



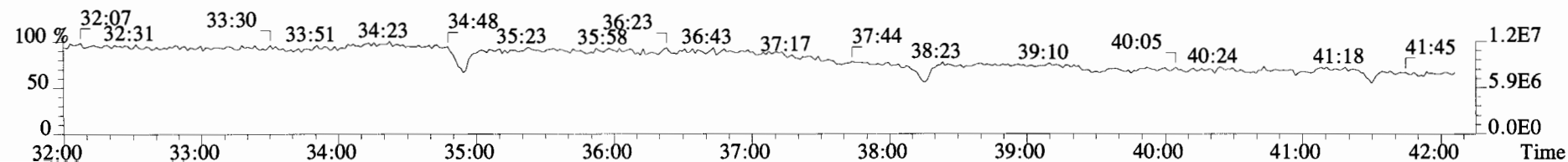
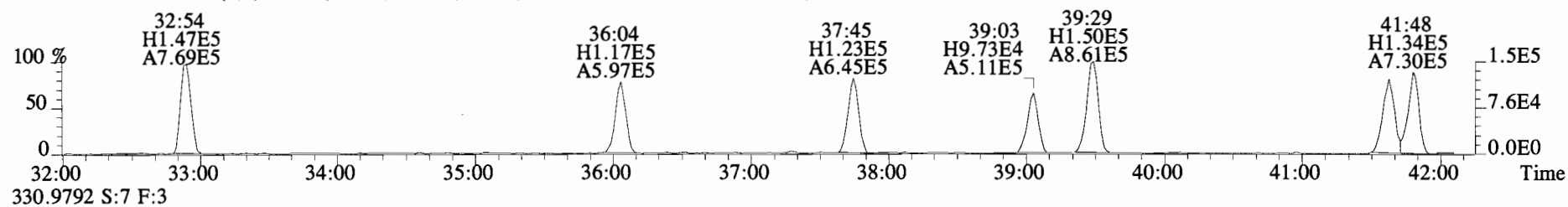
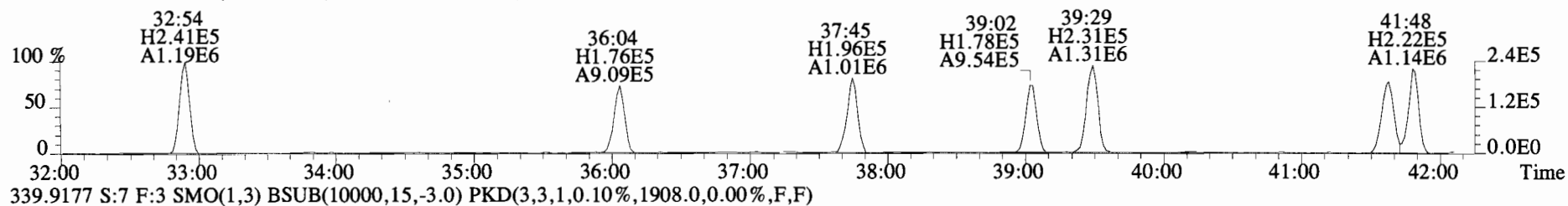
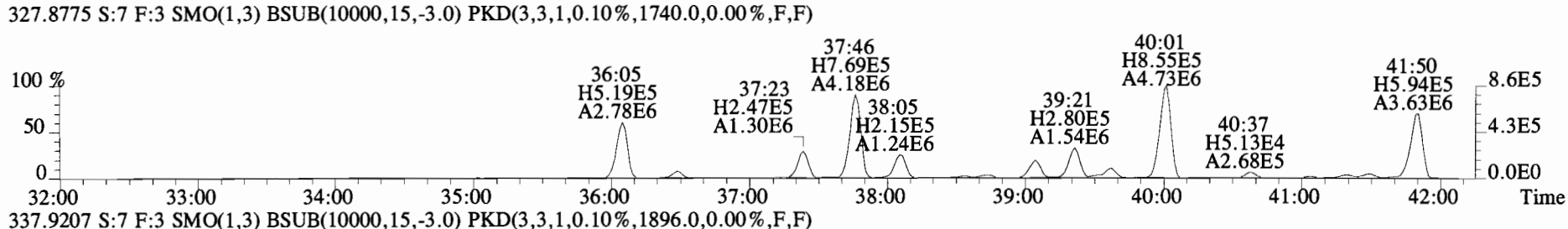
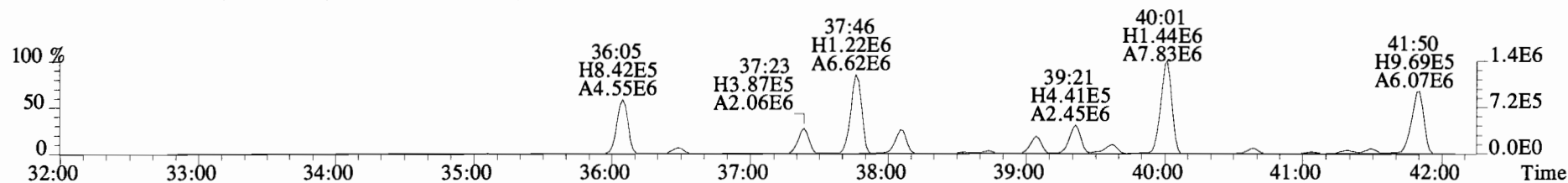
303.9597 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4228.0,0.00%,F,F)



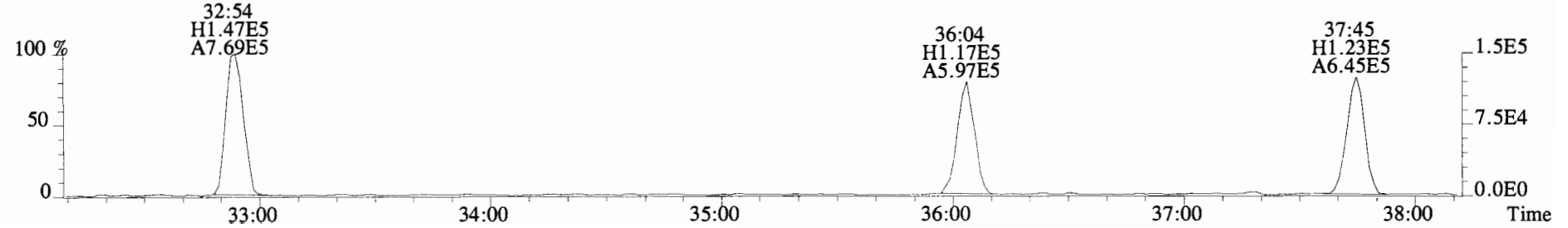
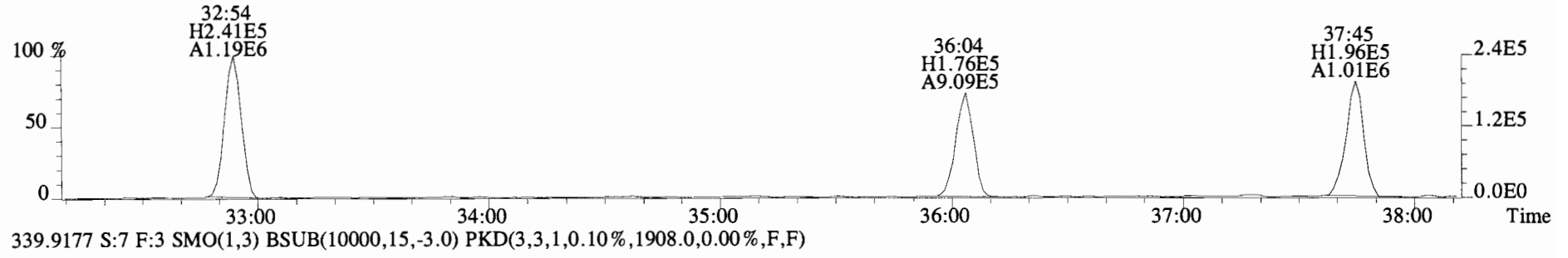
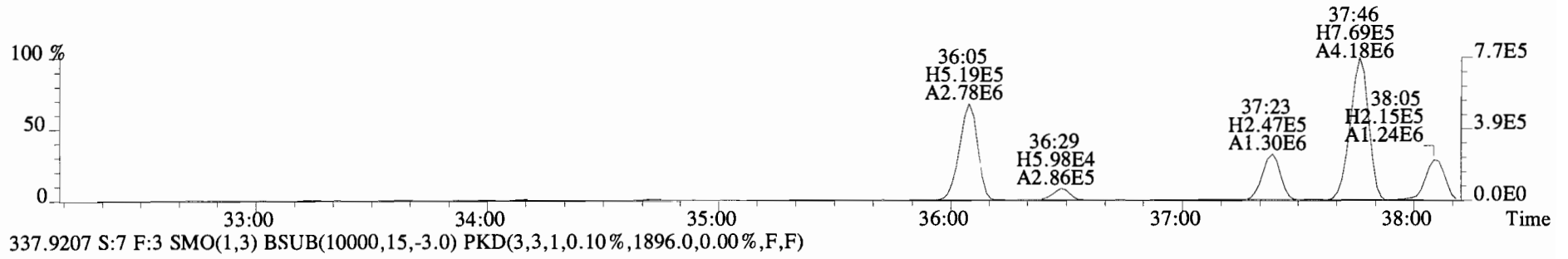
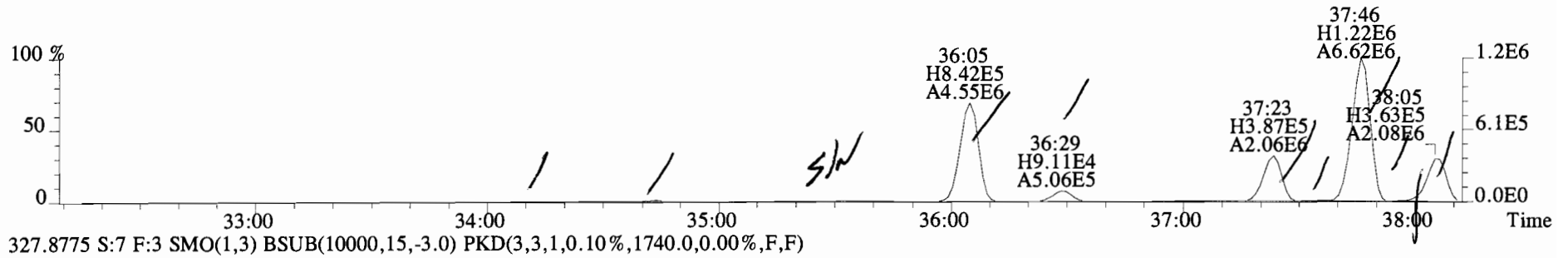
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6308.0,0.00%,F,F)



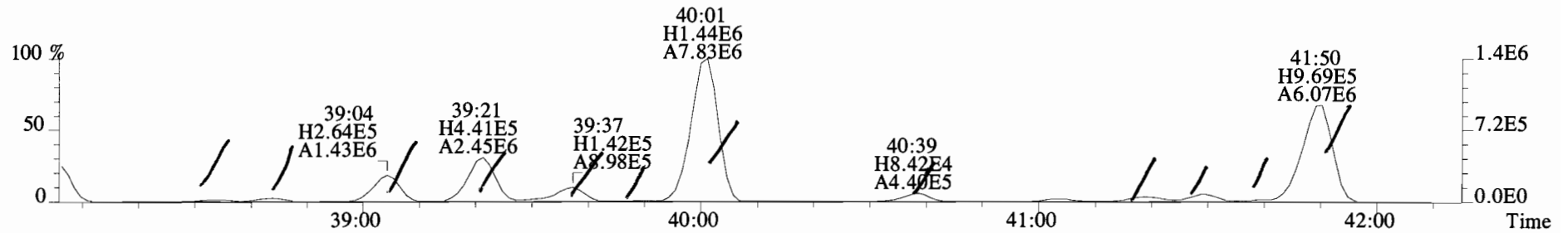
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



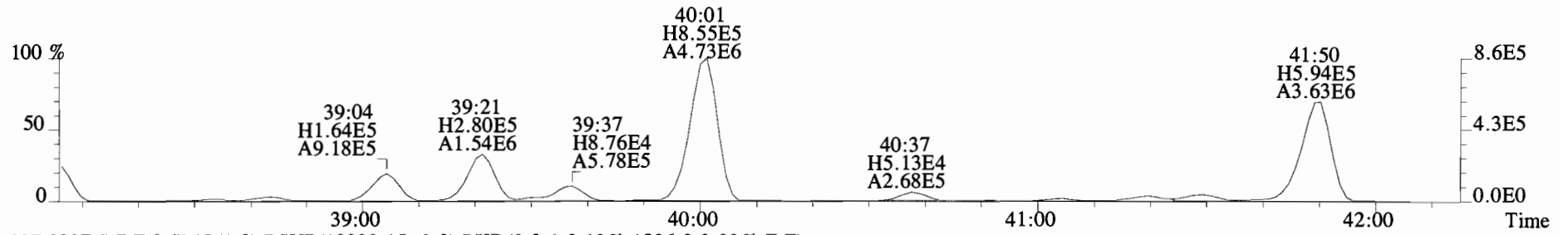
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



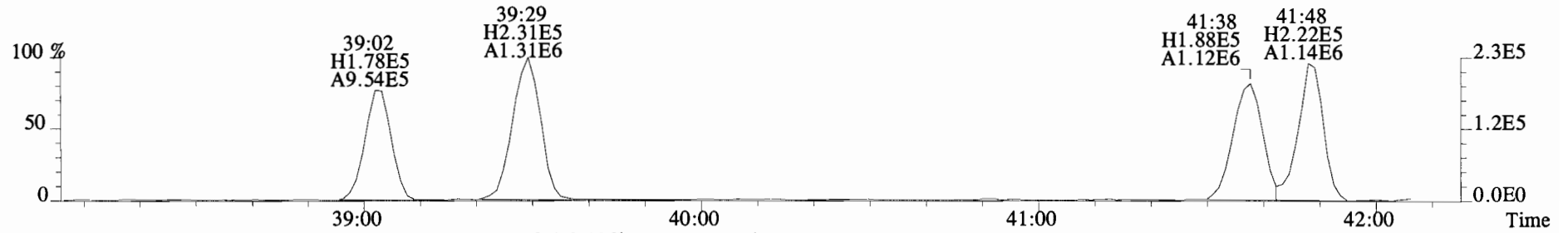
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



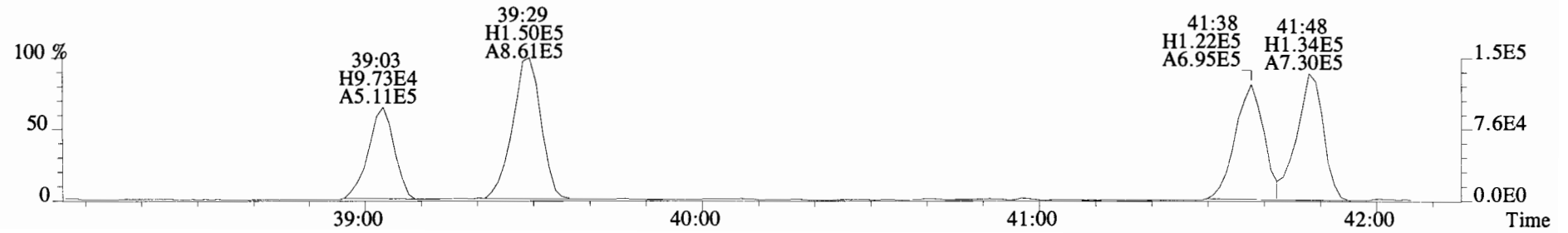
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



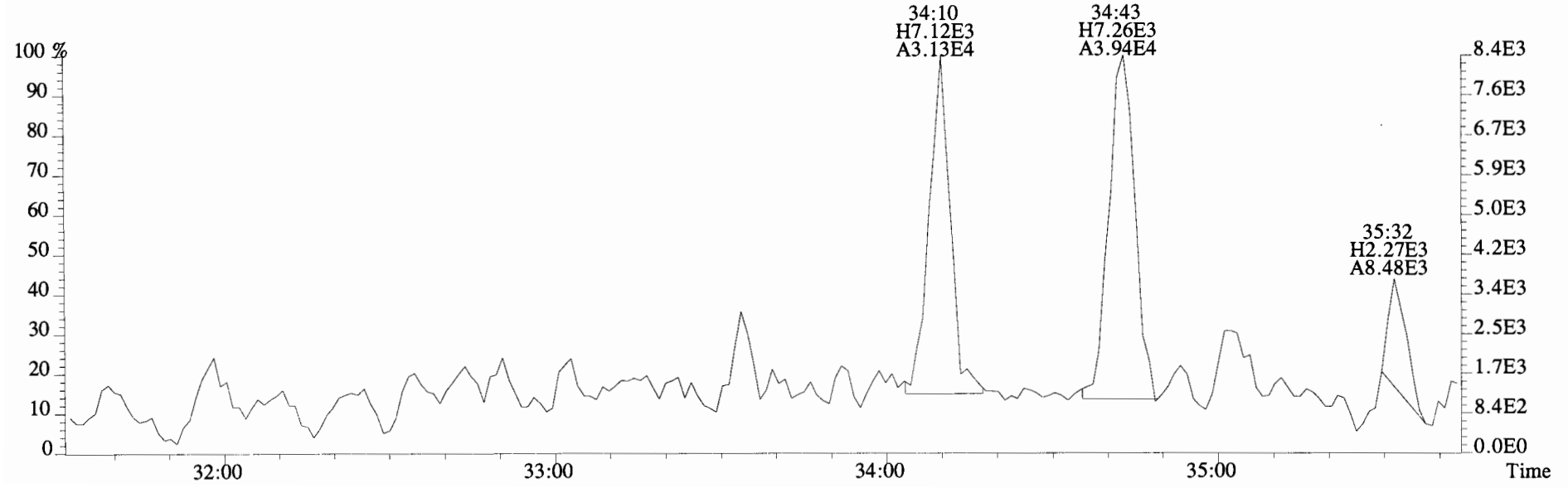
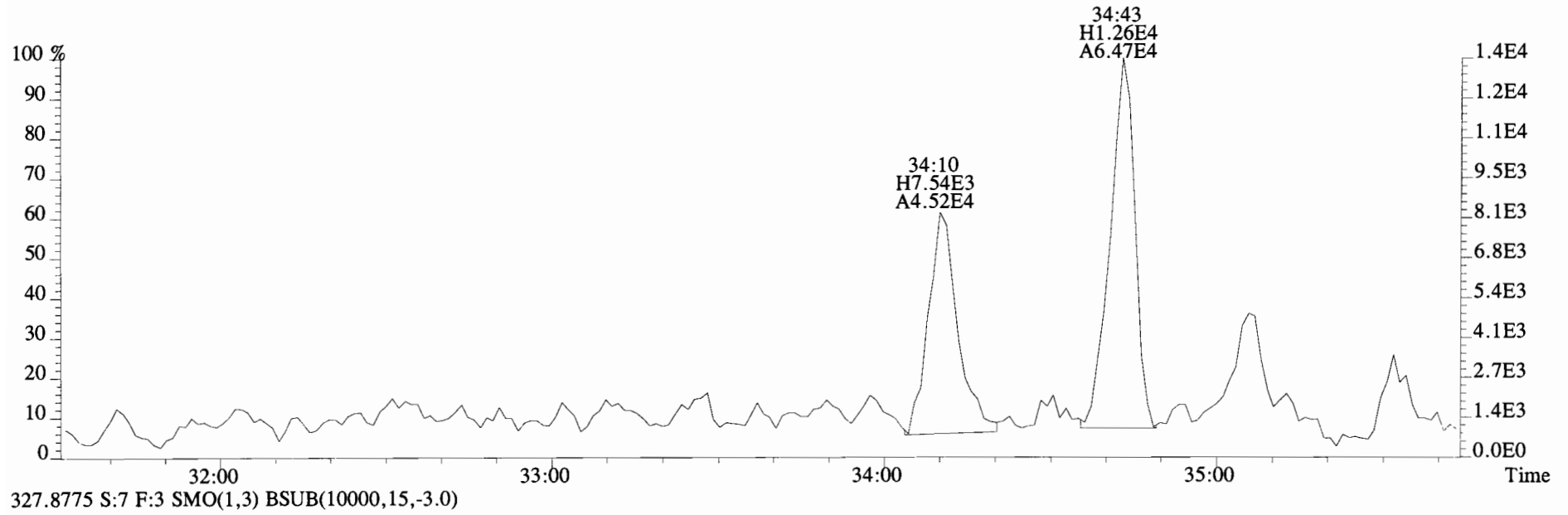
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



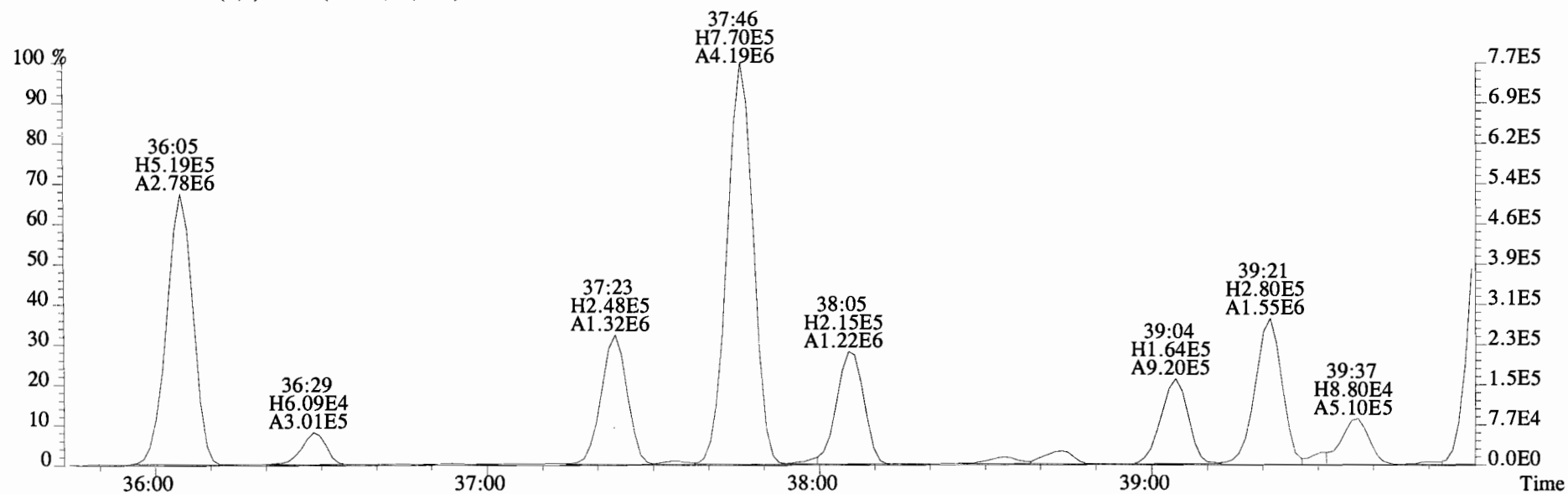
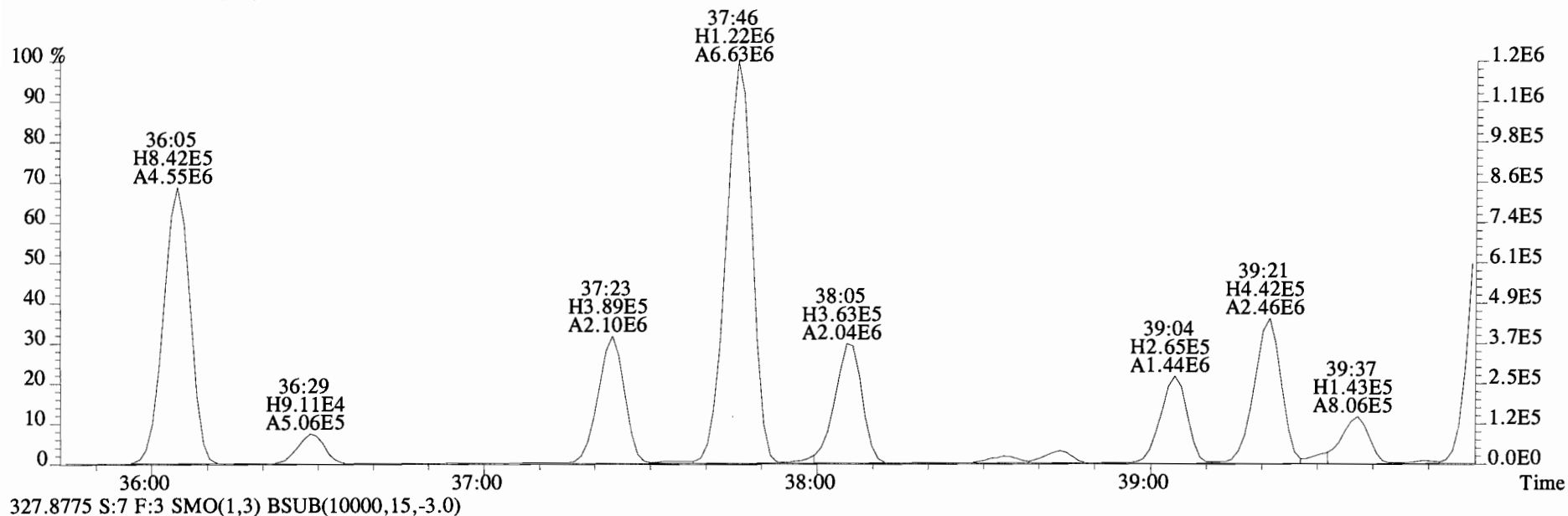
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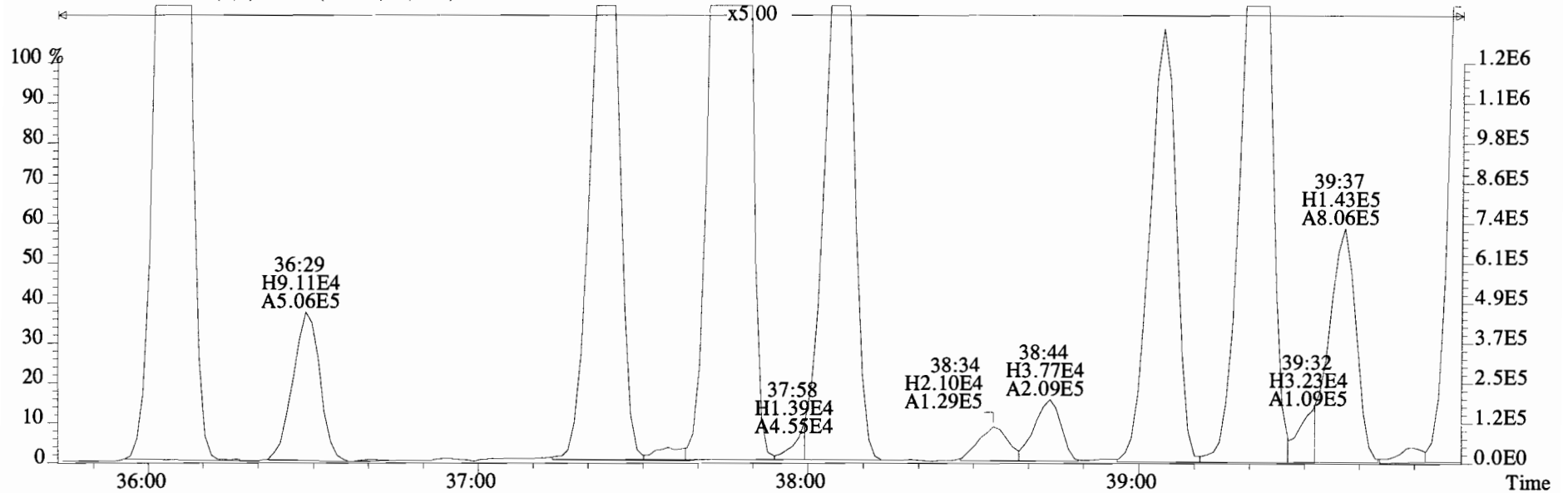
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



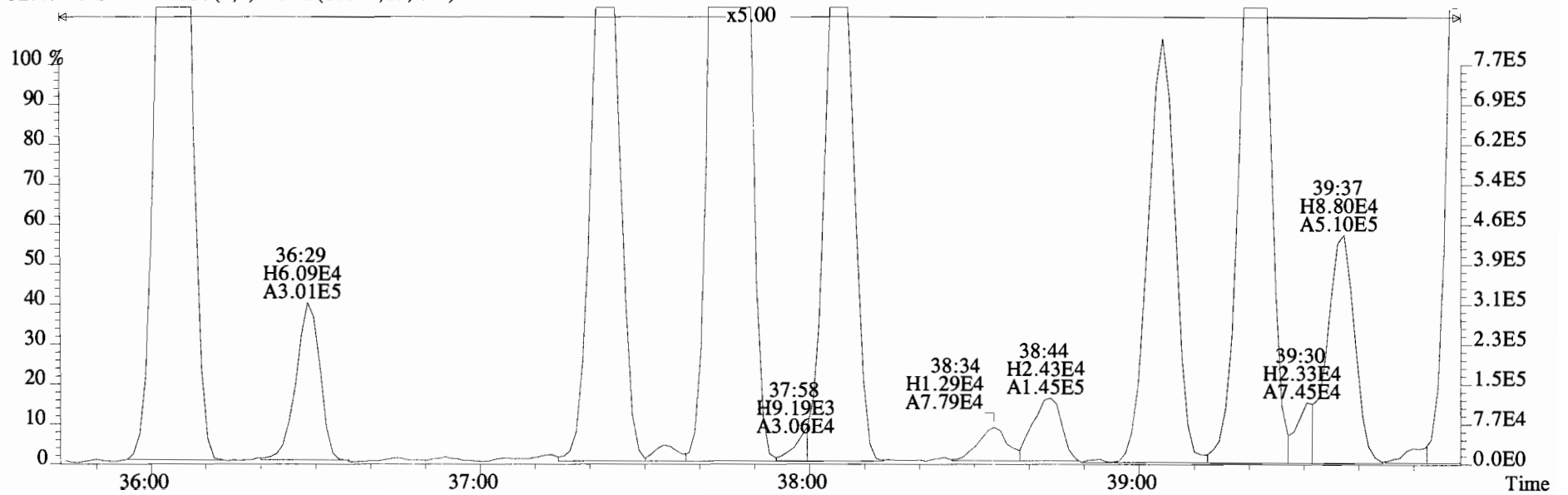
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 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)

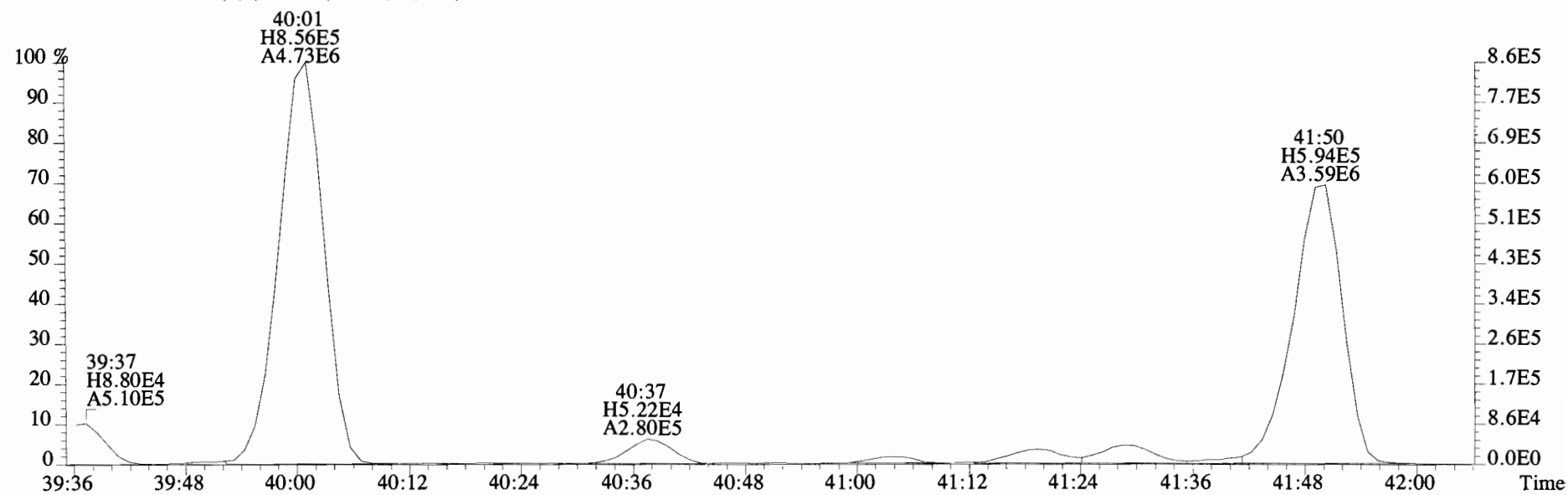
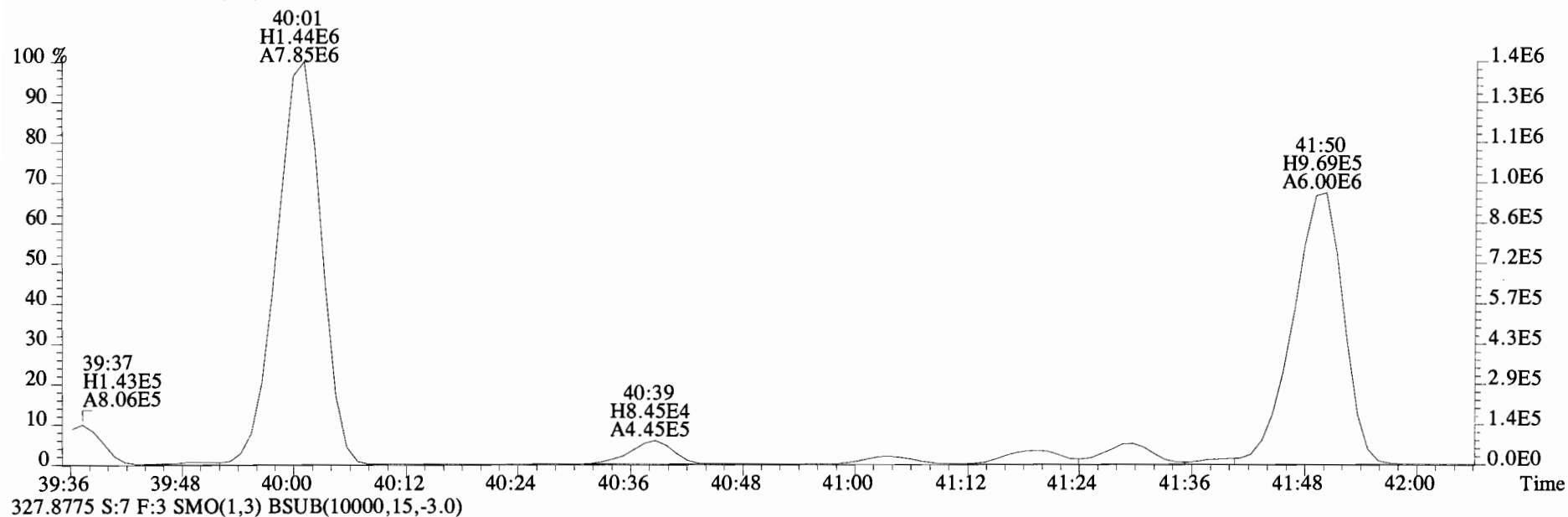


327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)

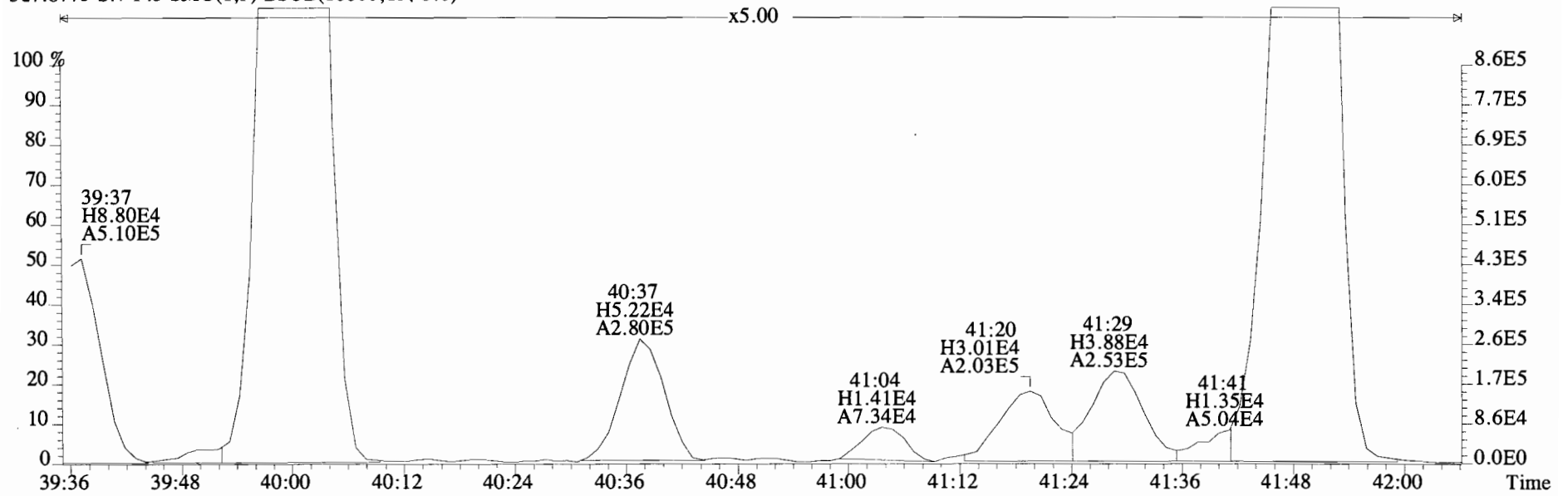
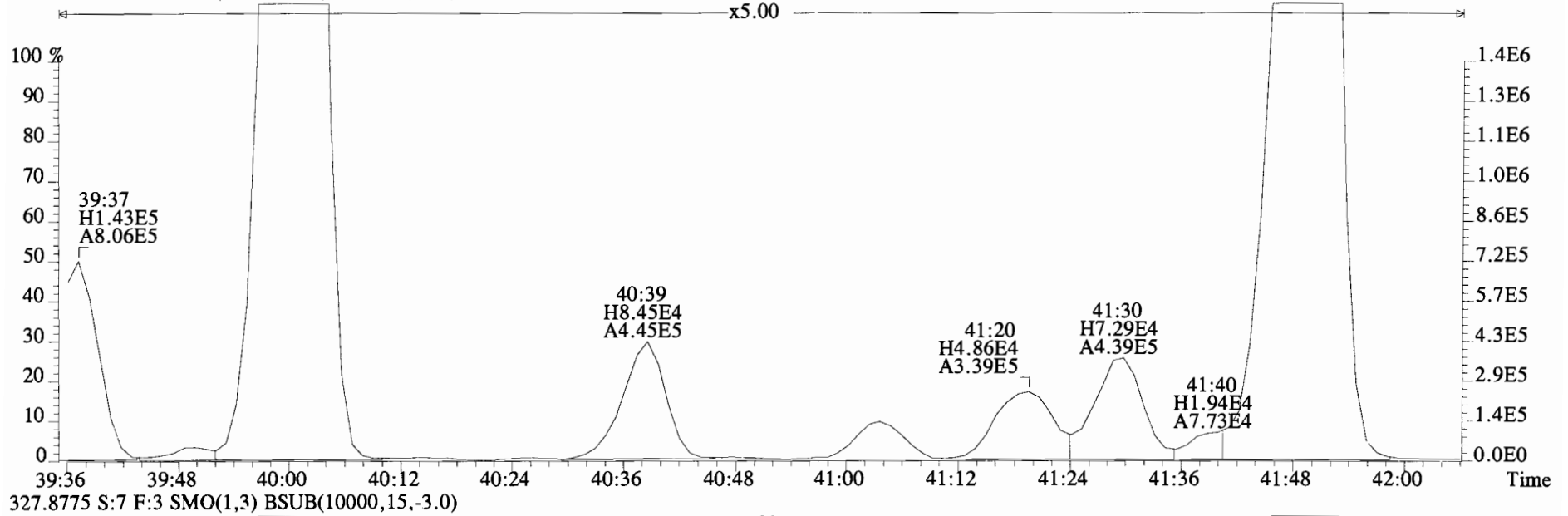




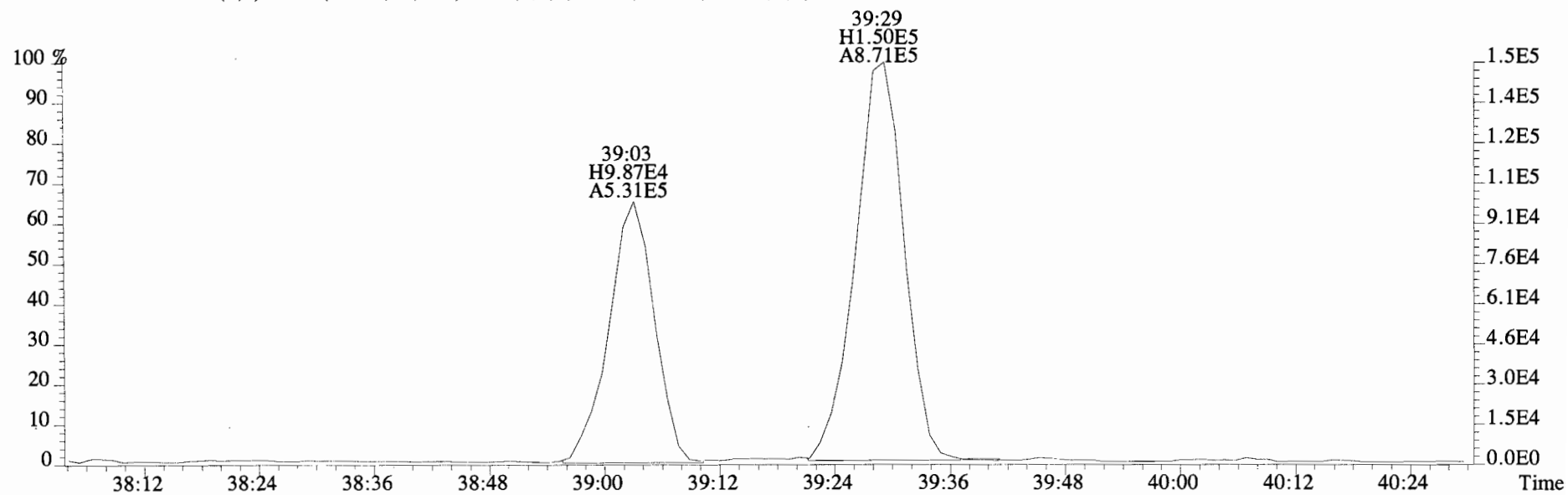
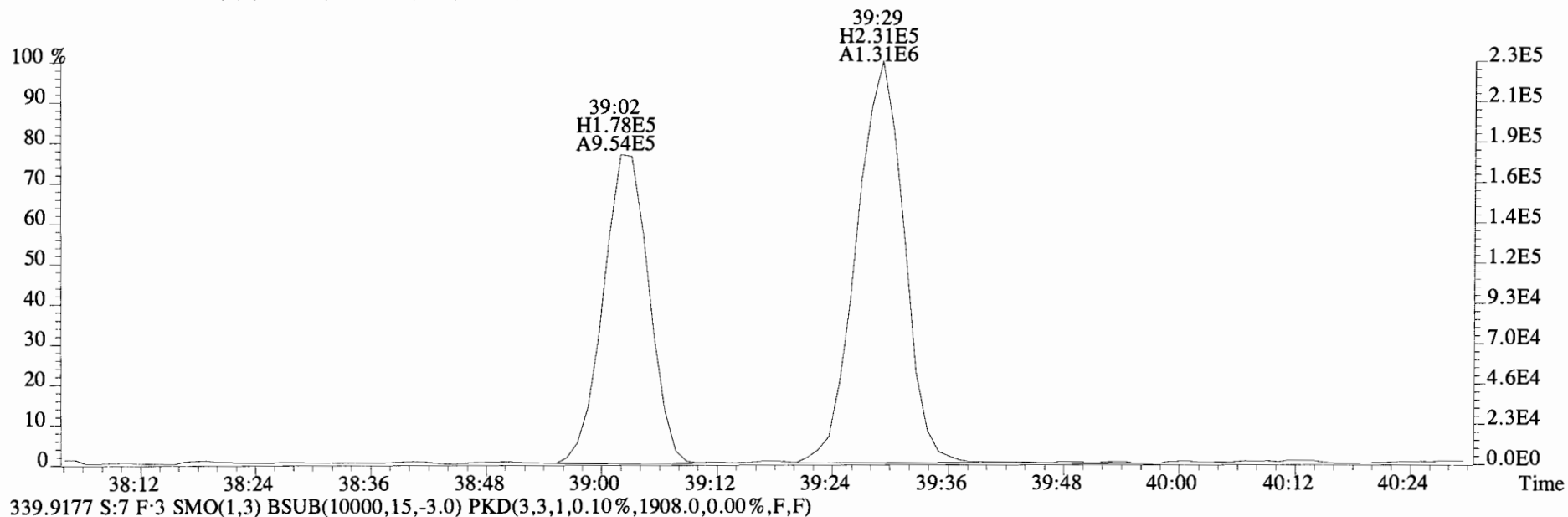
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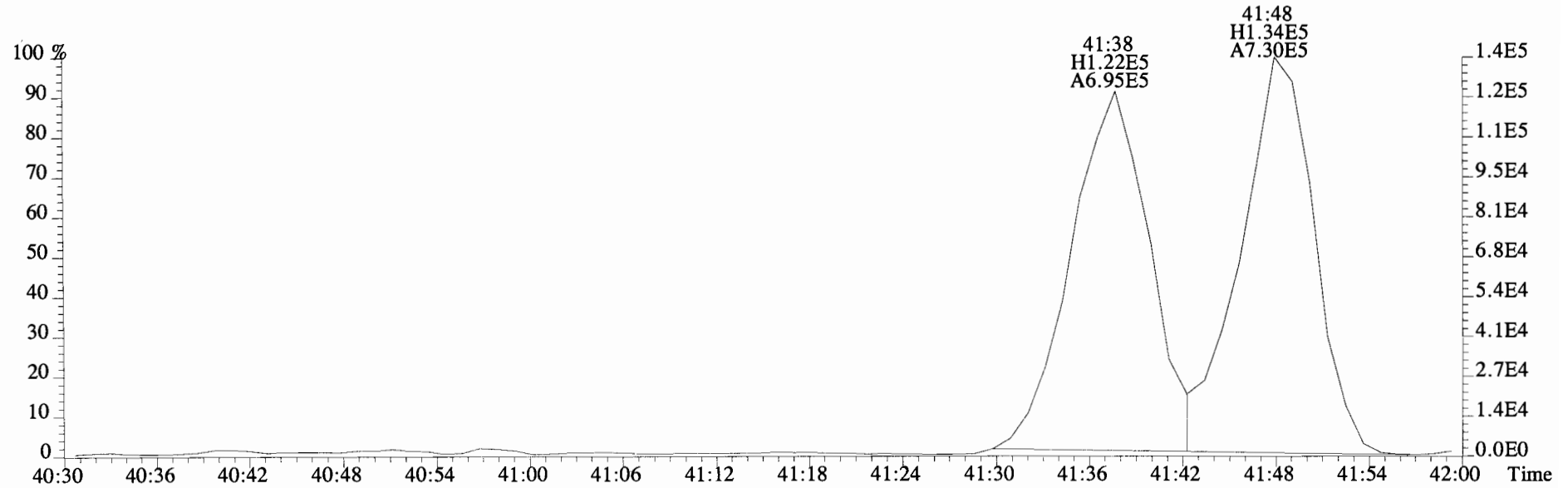
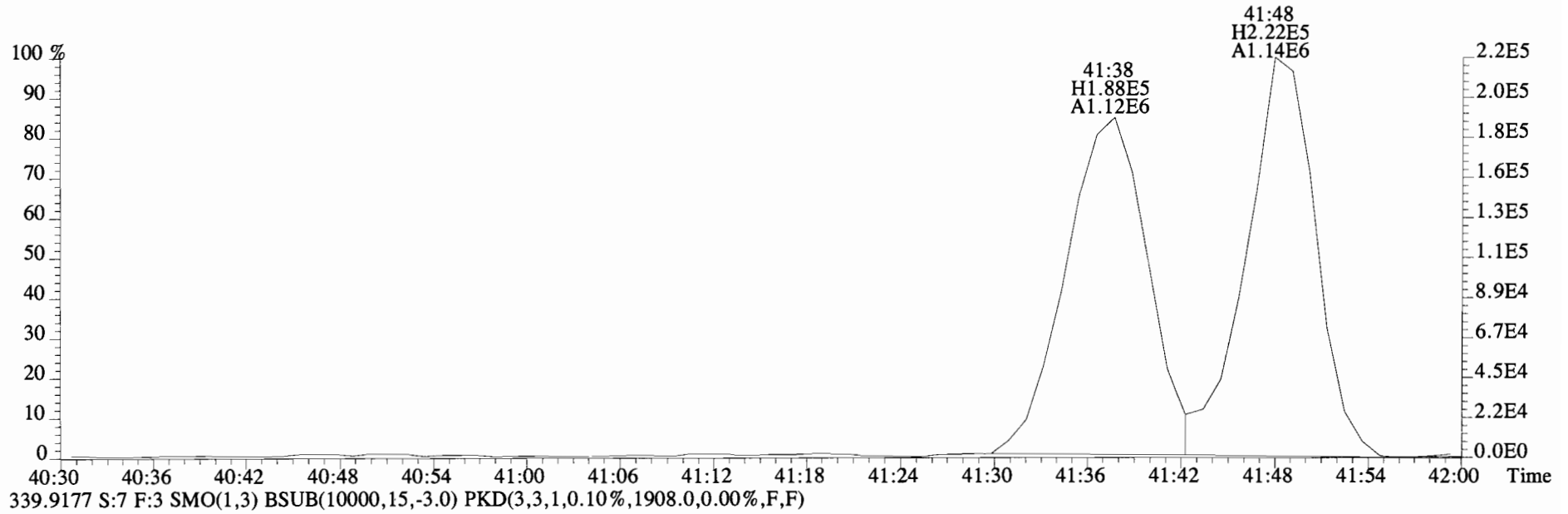
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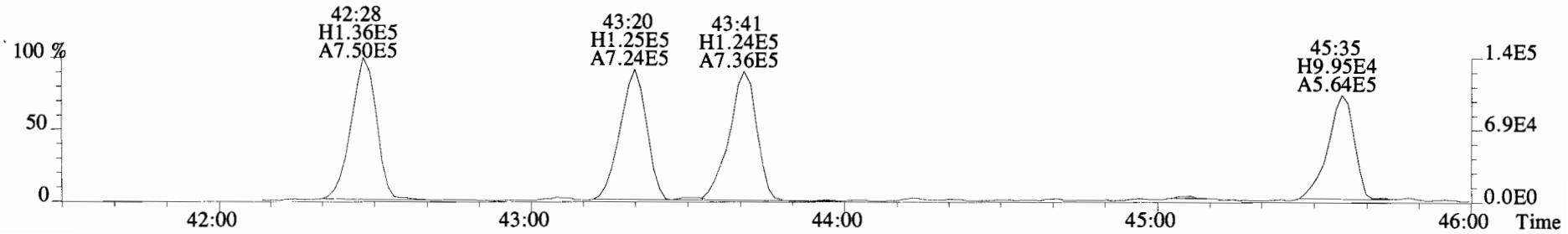
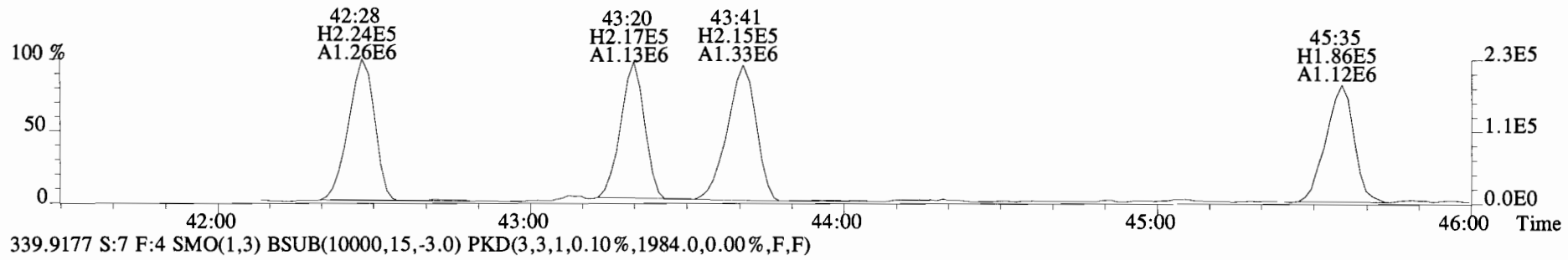
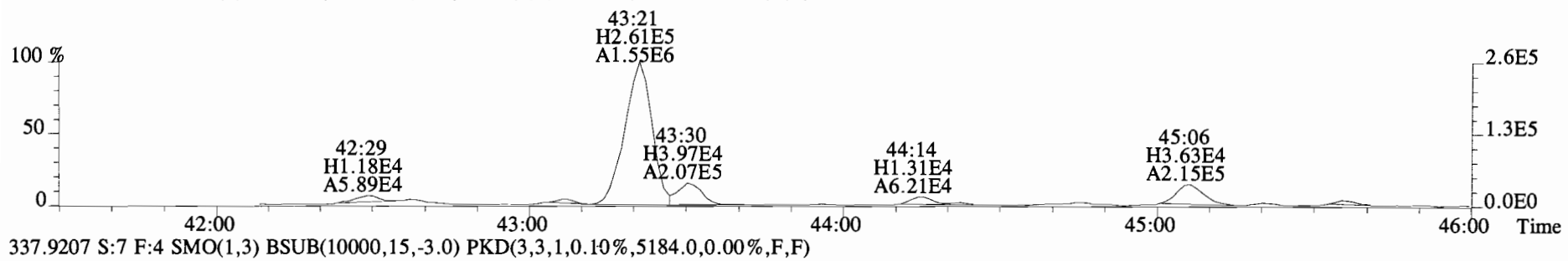
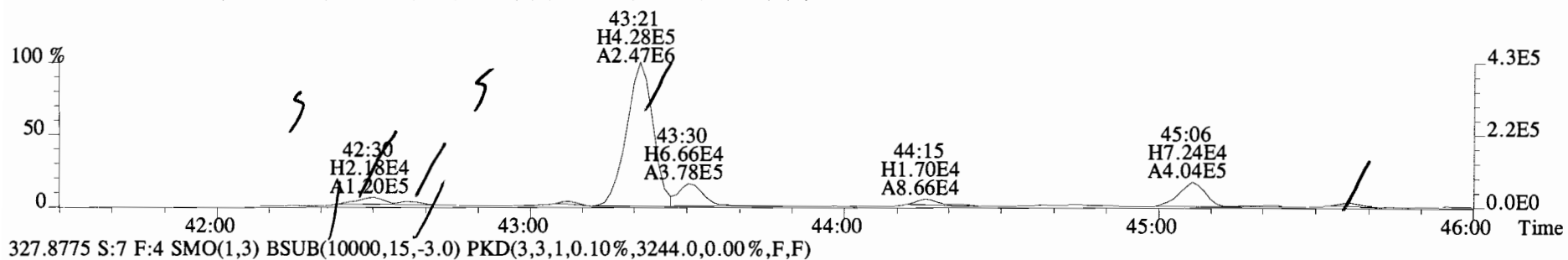
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



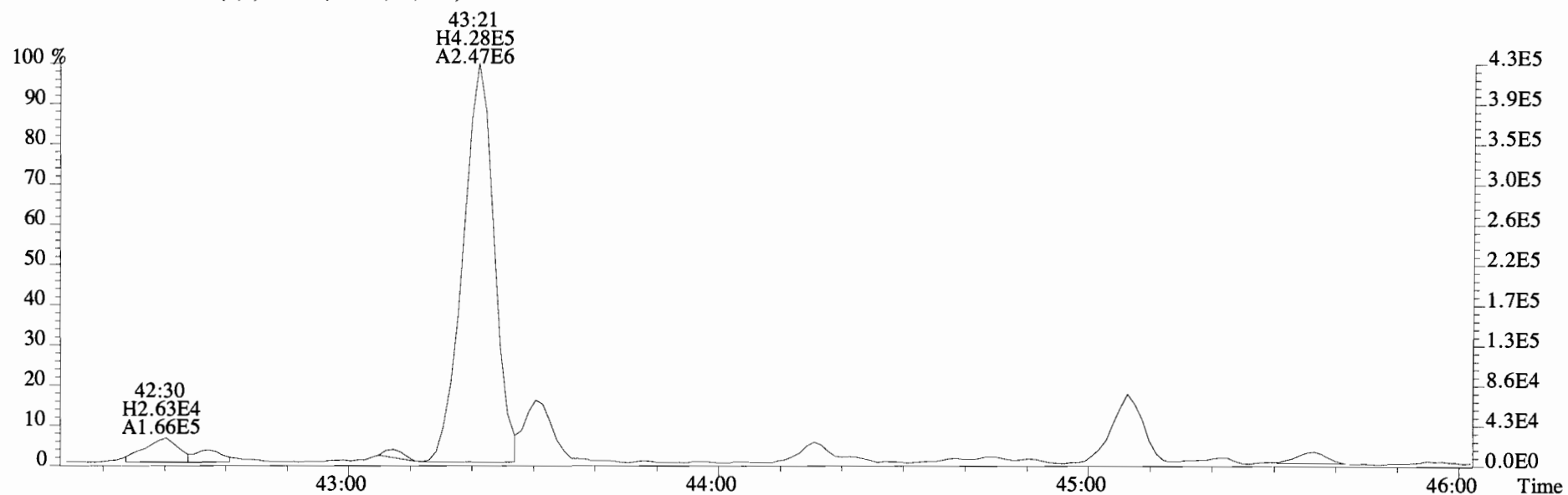
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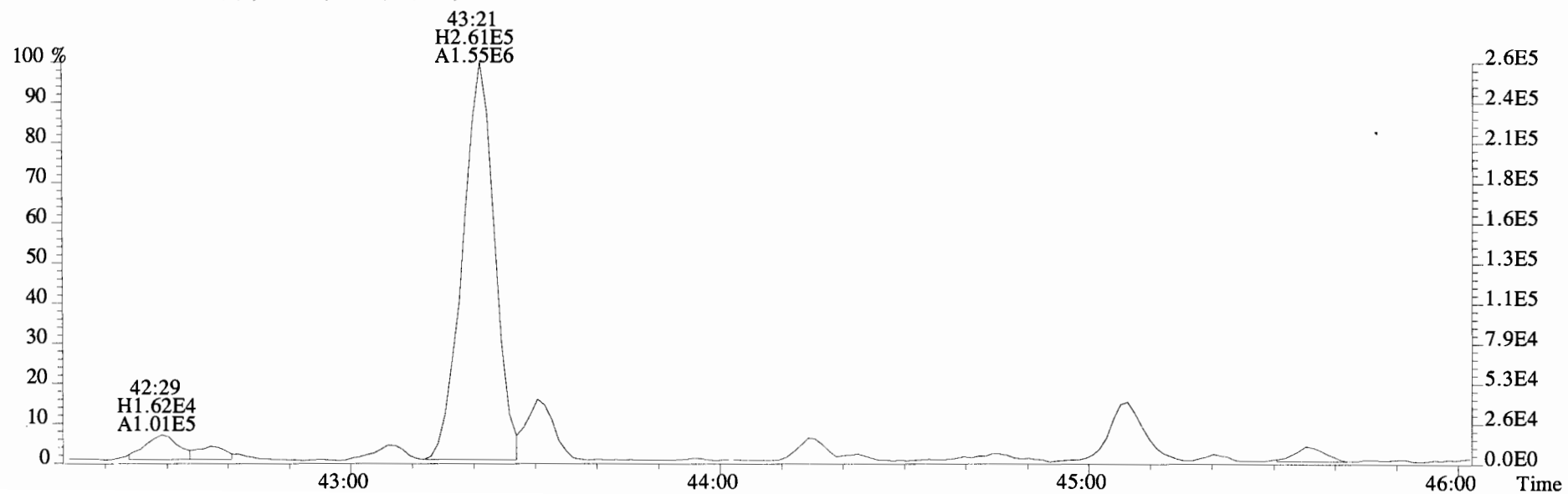
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
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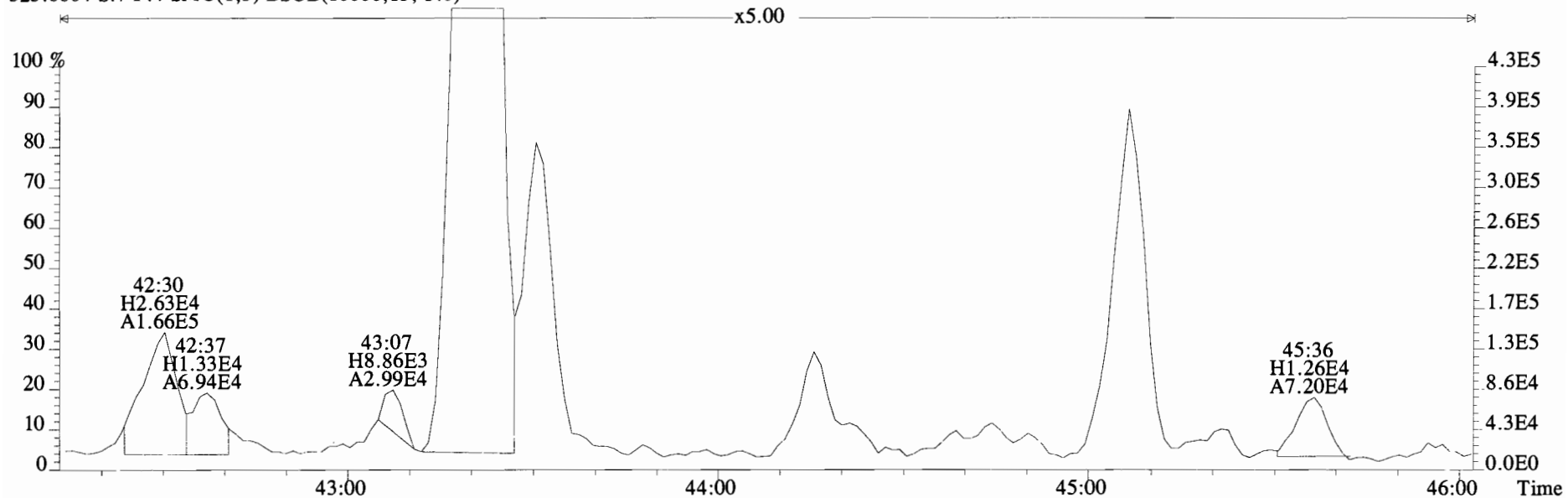
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
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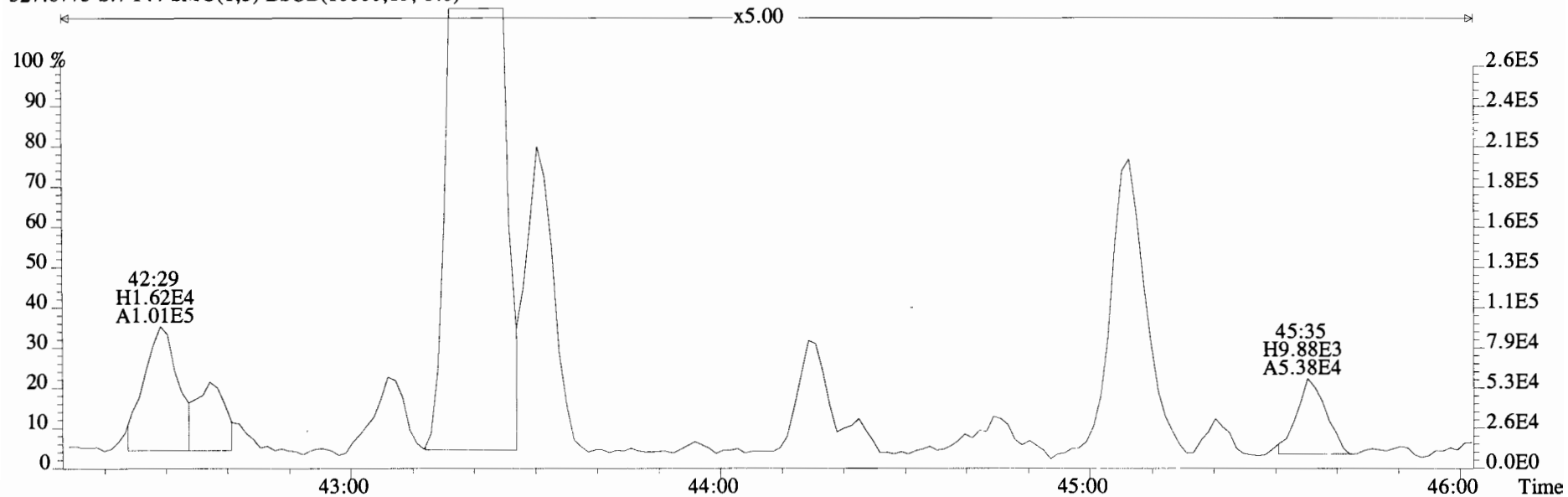
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



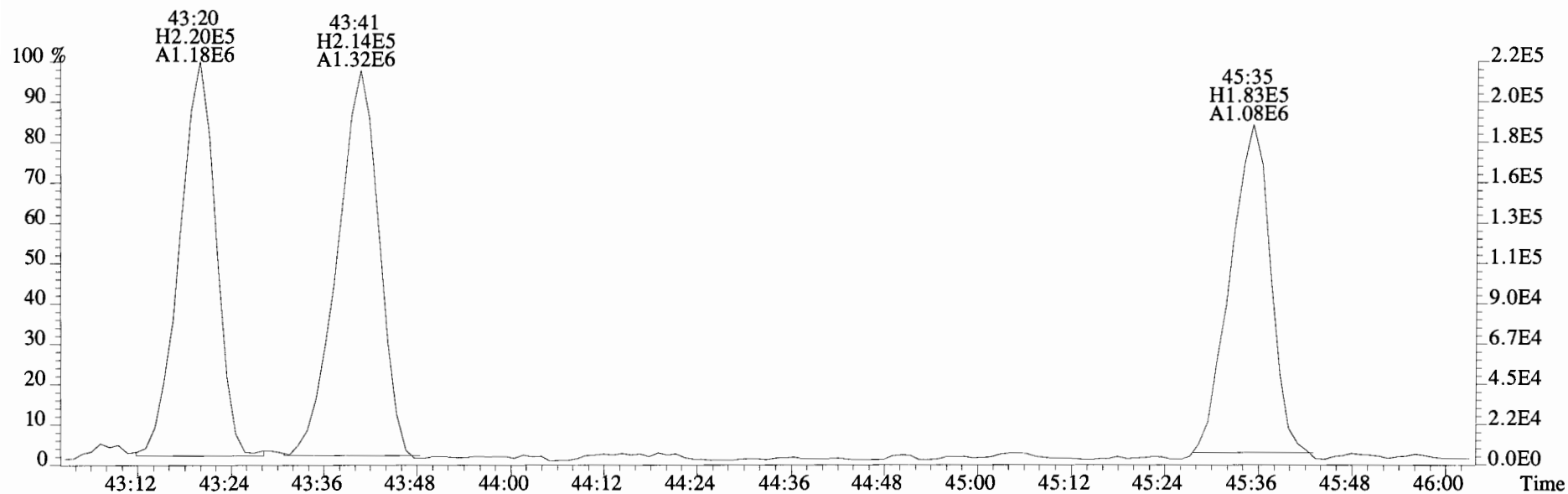
File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
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325.8804 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



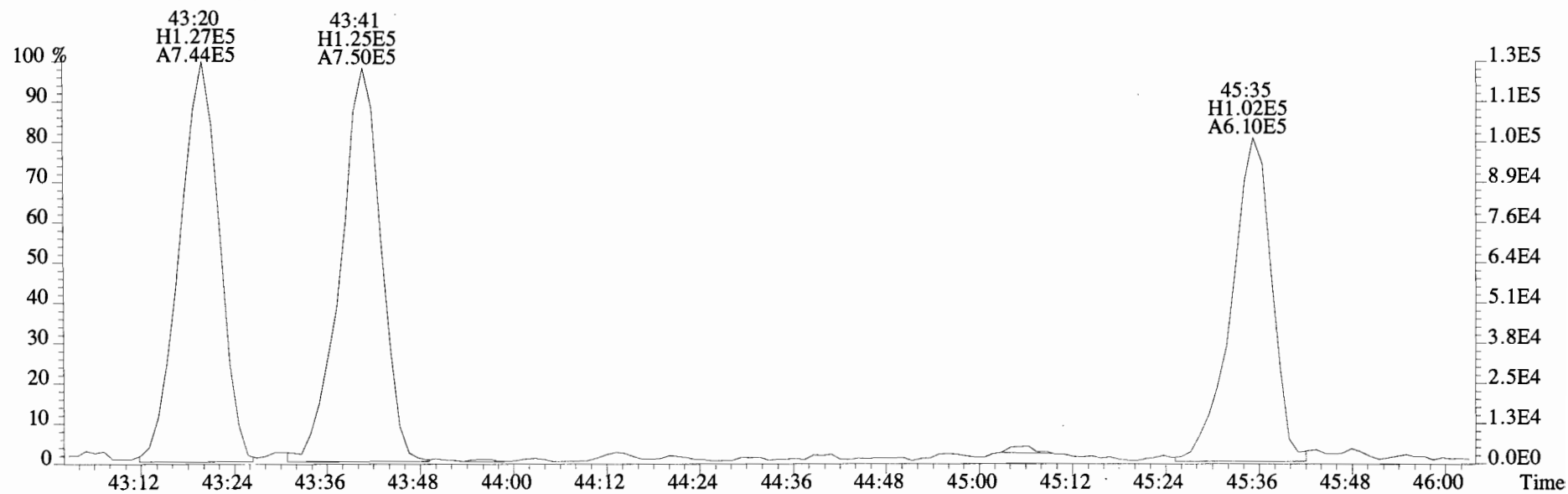
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
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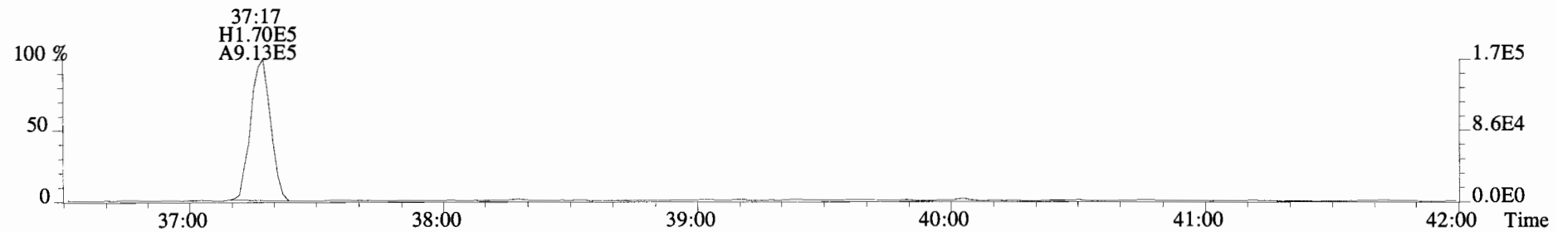
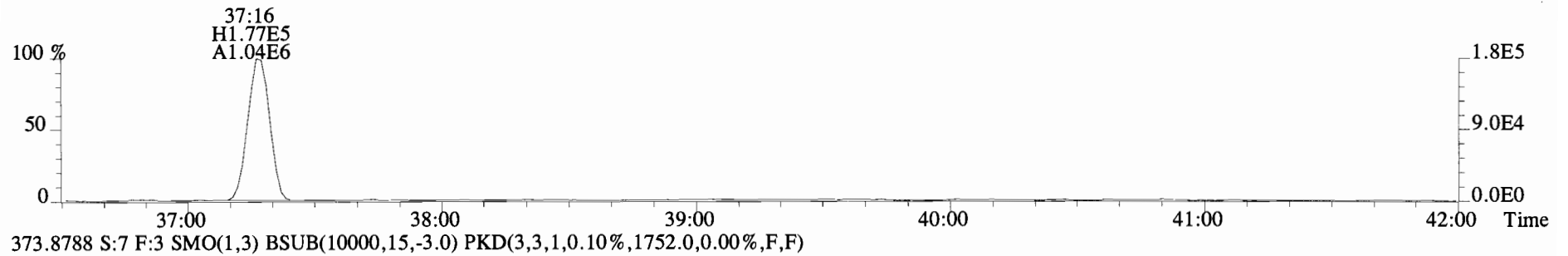
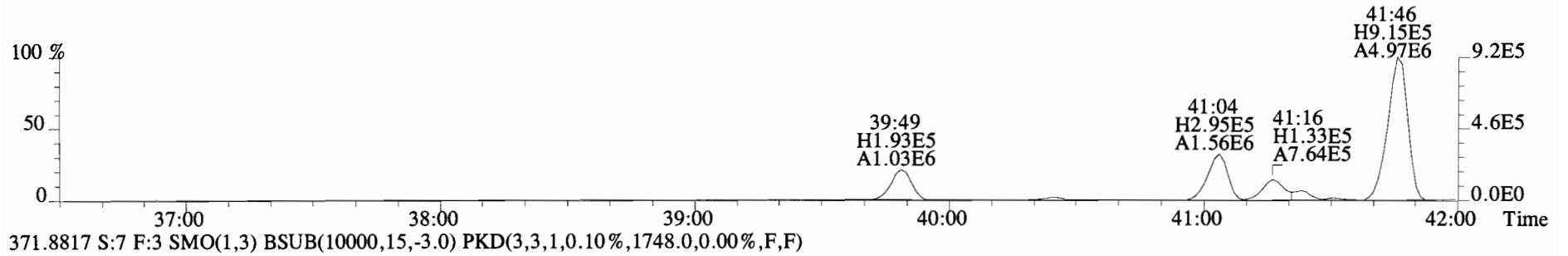
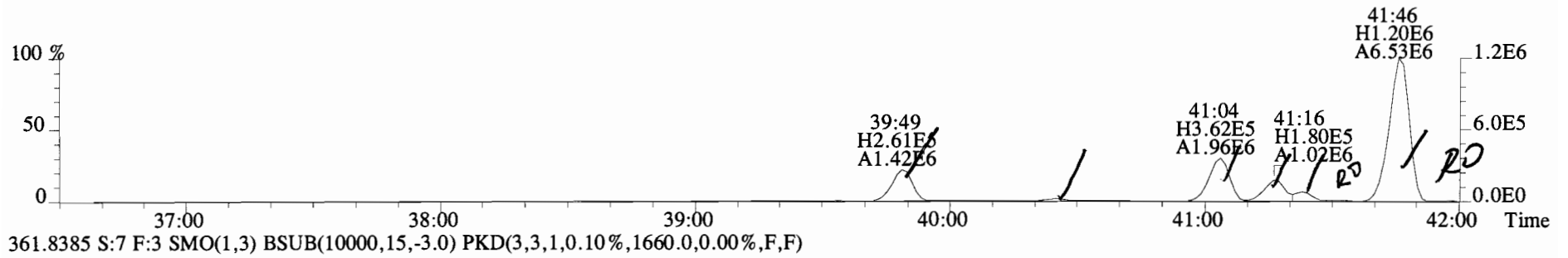


339.9177 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1984.0,0.00%,F,F)

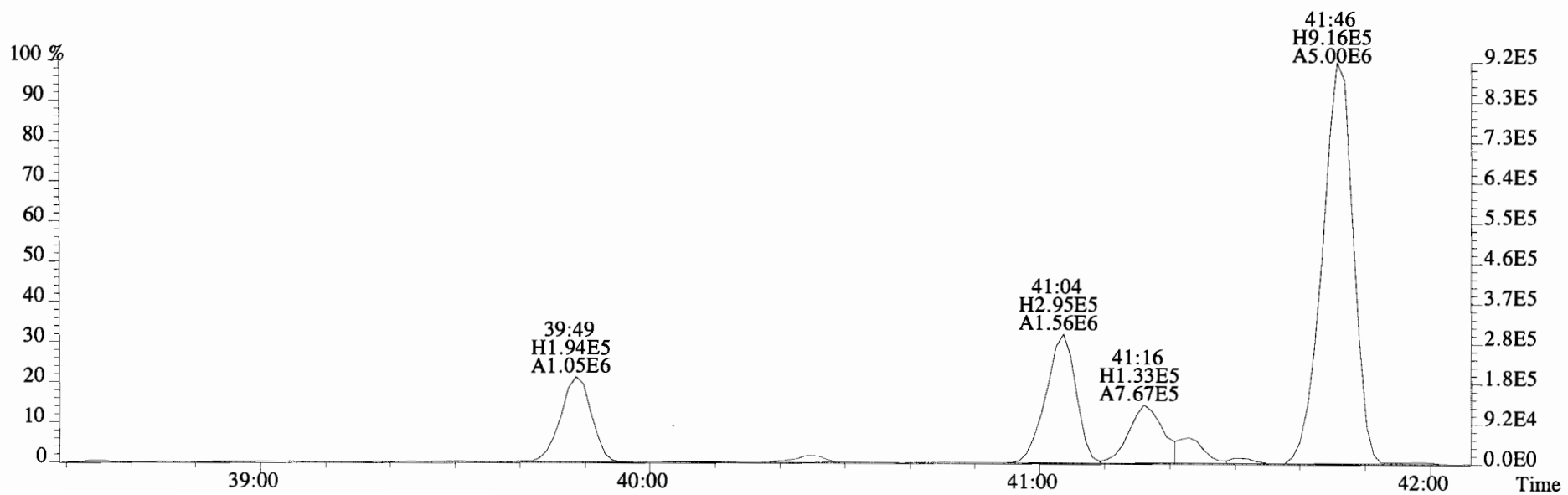
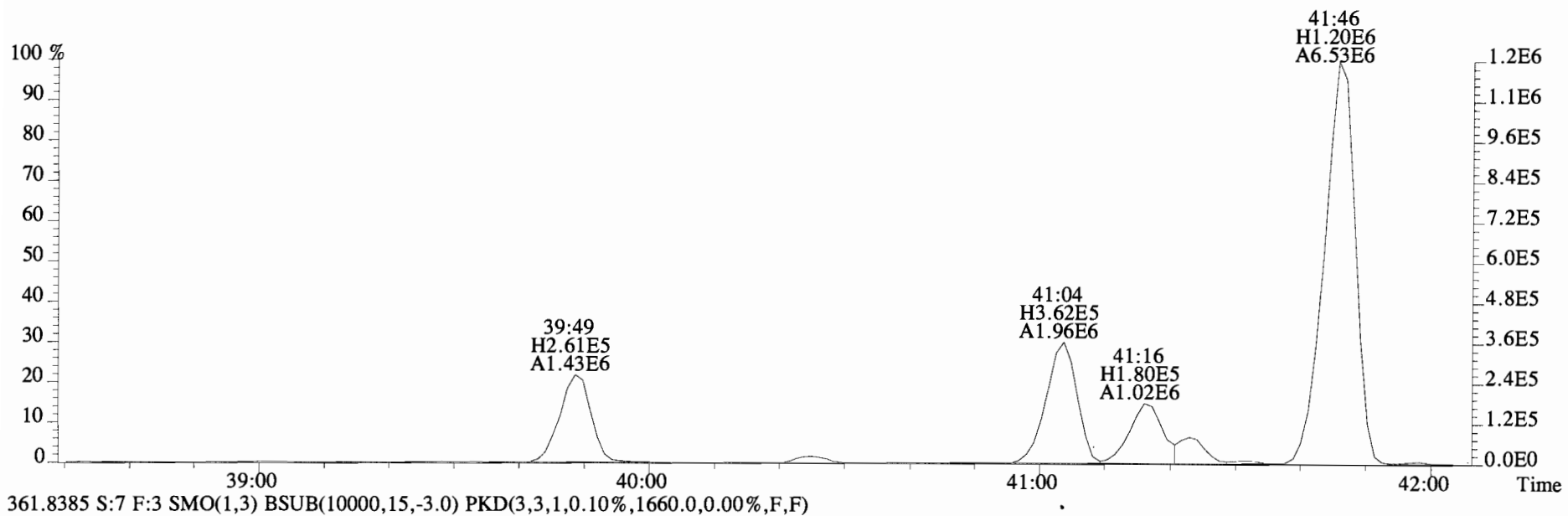




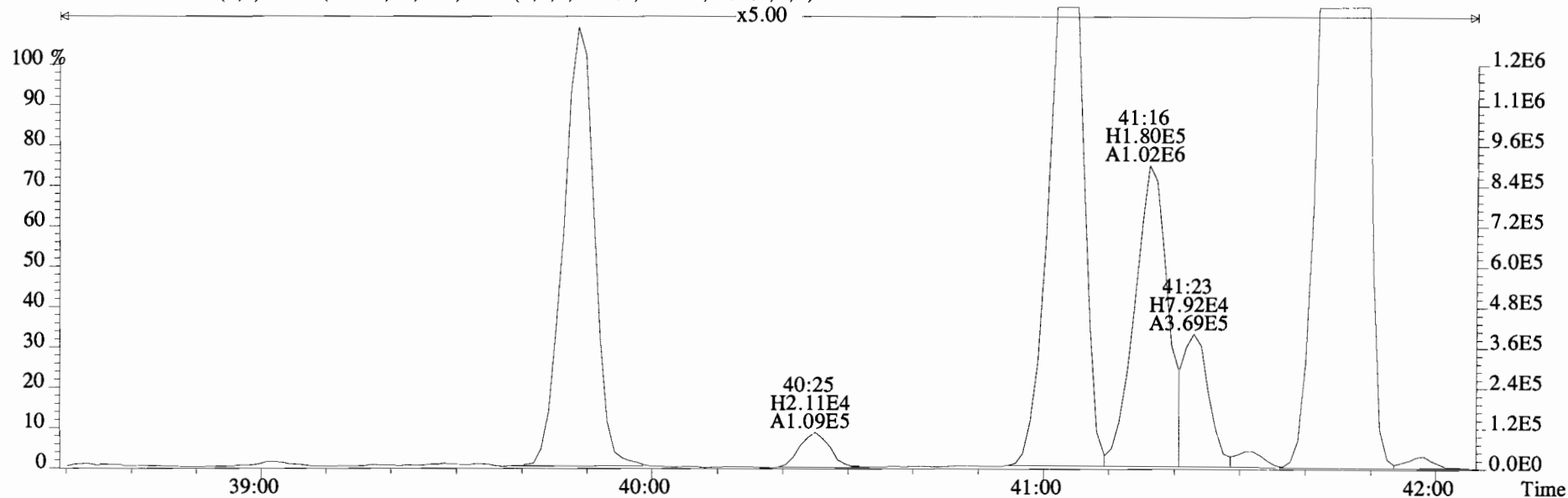
File:140919E2 #1-770 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



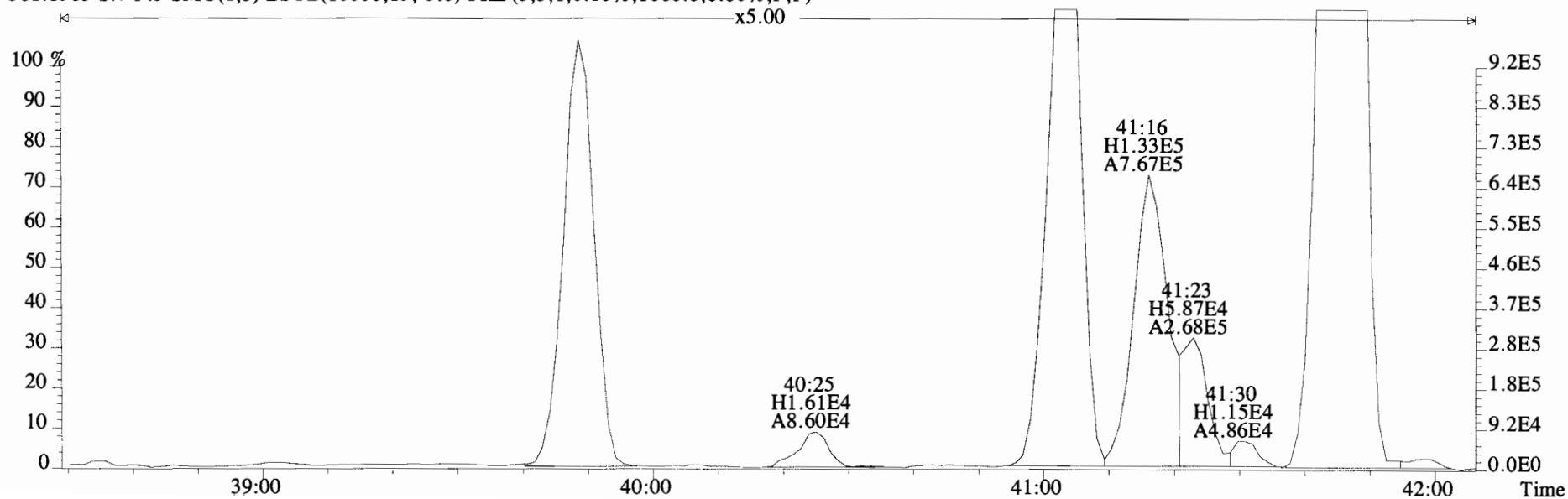
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



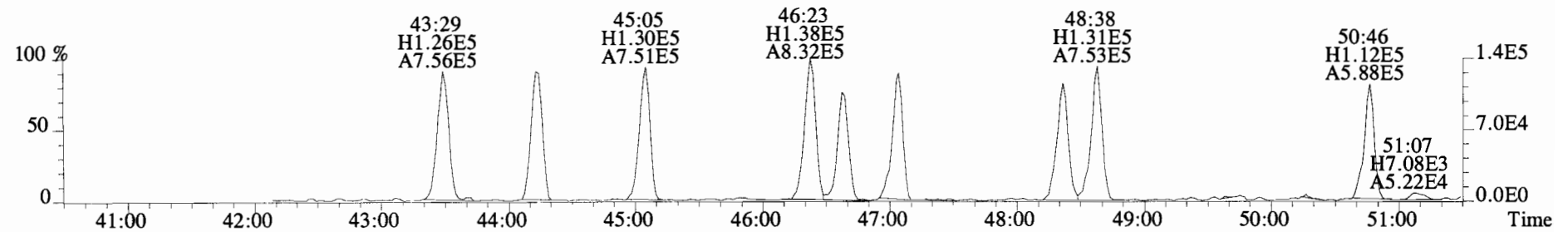
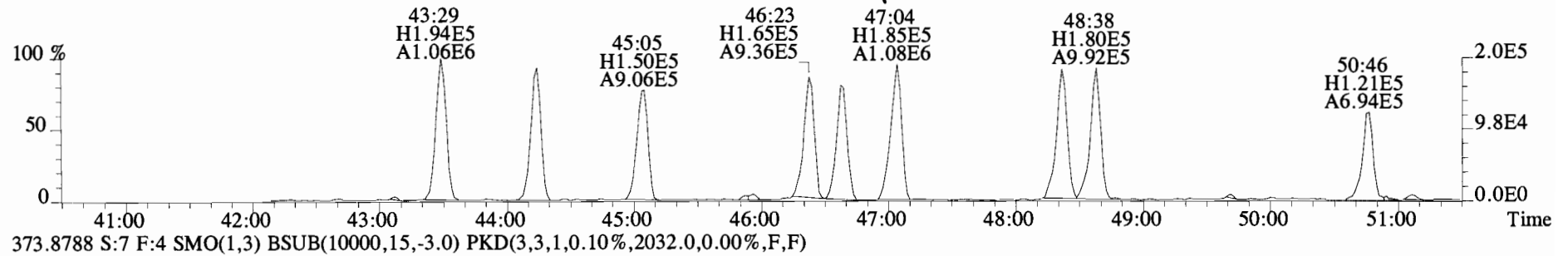
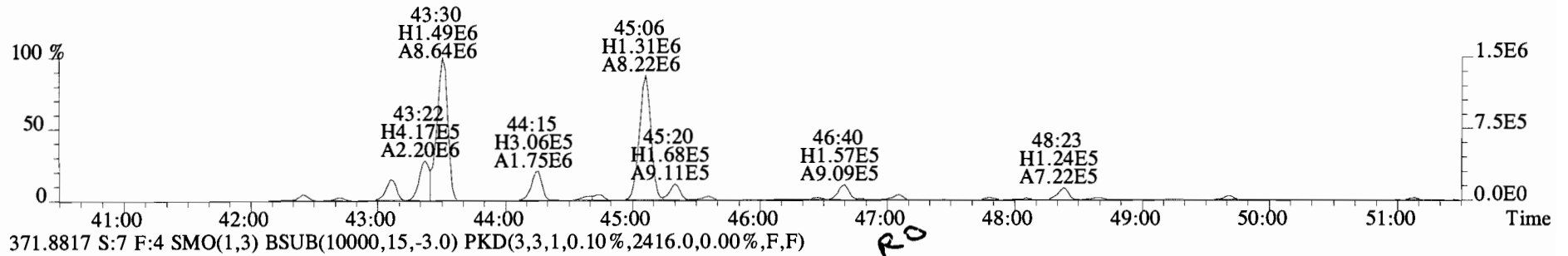
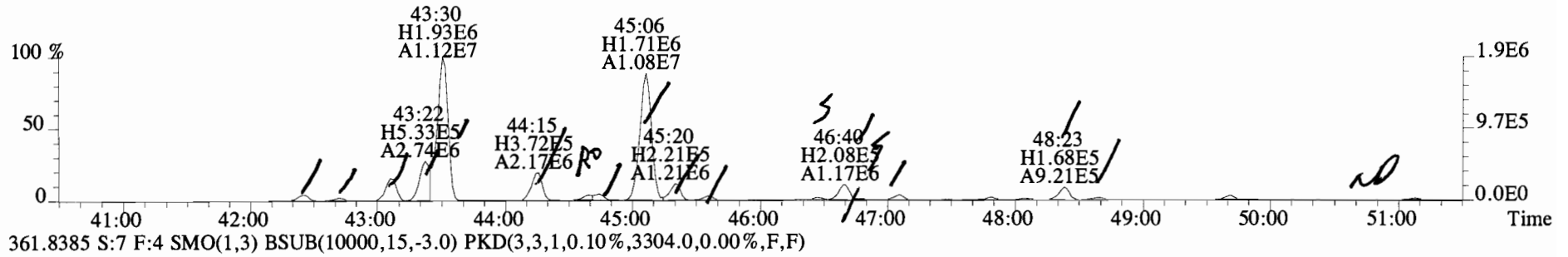
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Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



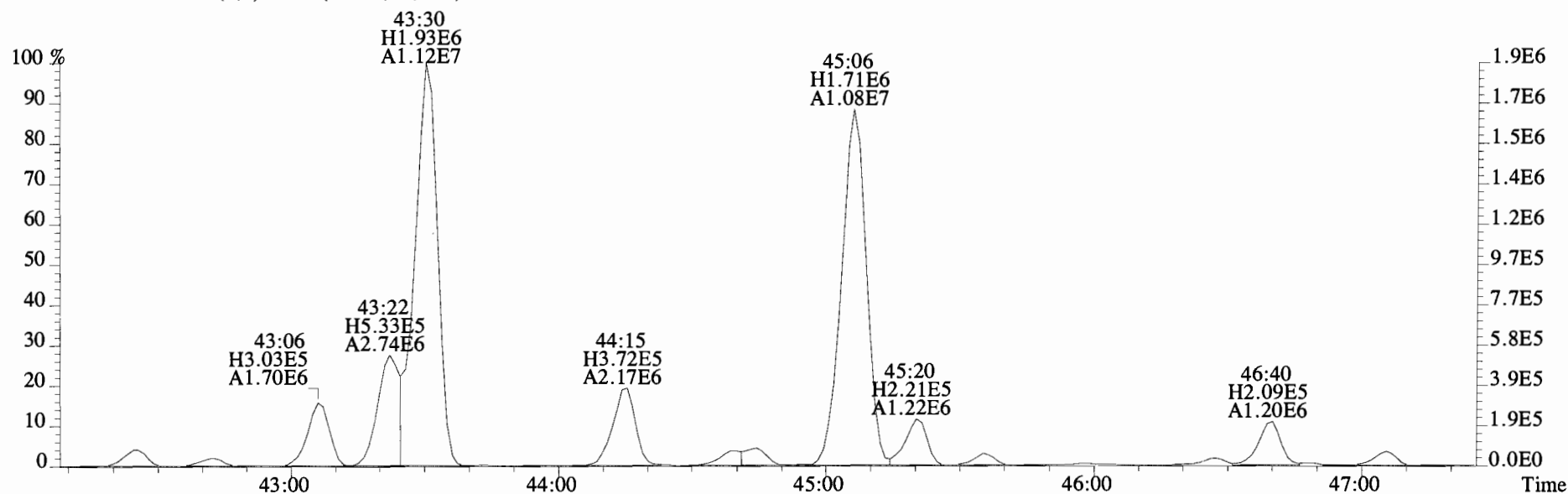
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)



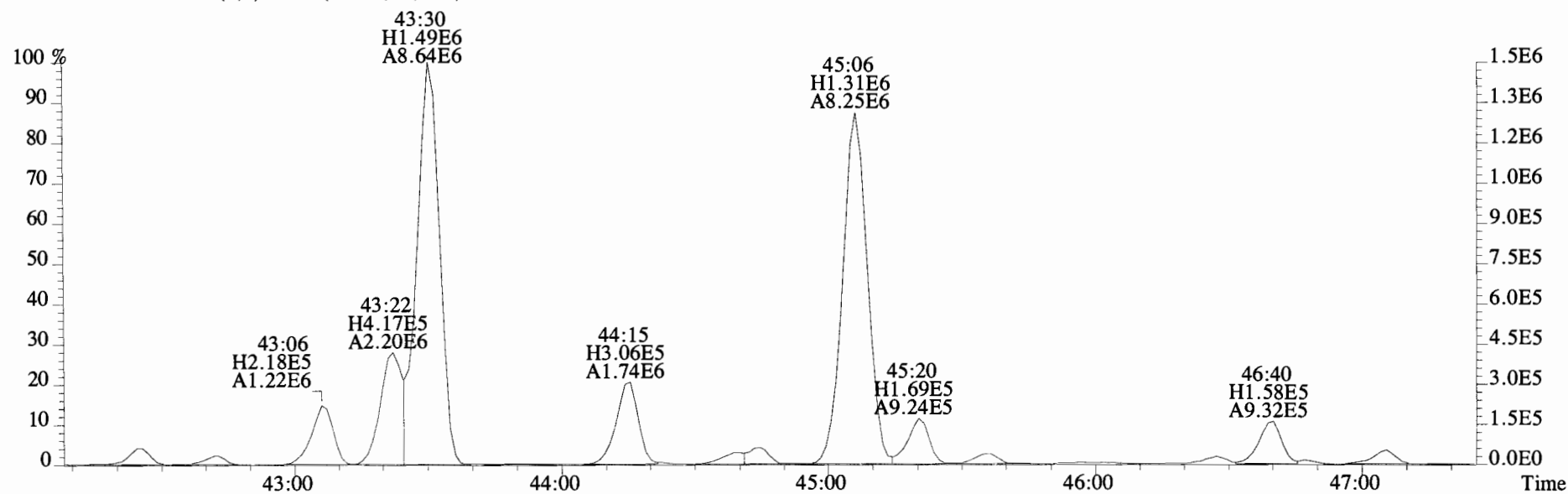
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
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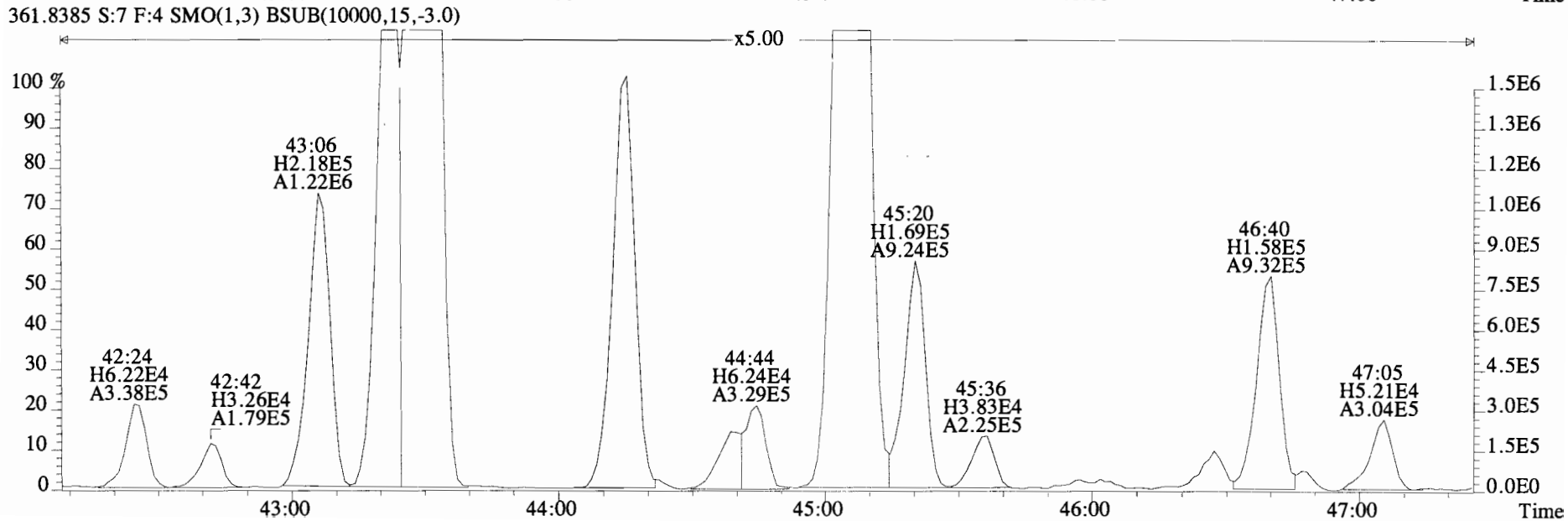
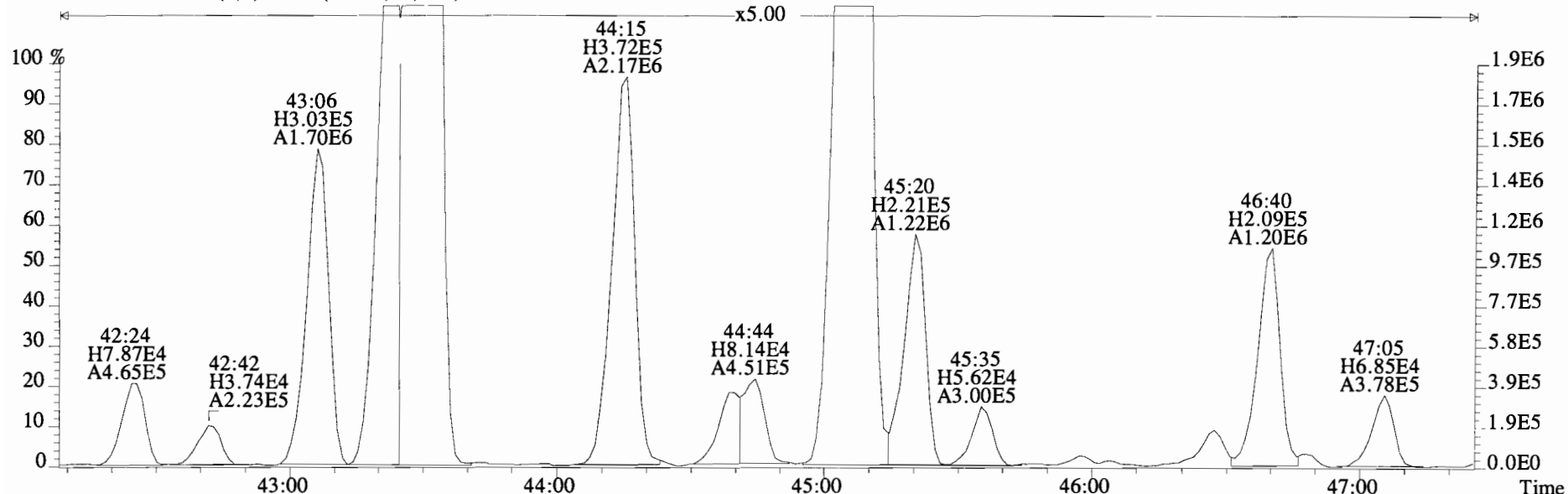
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



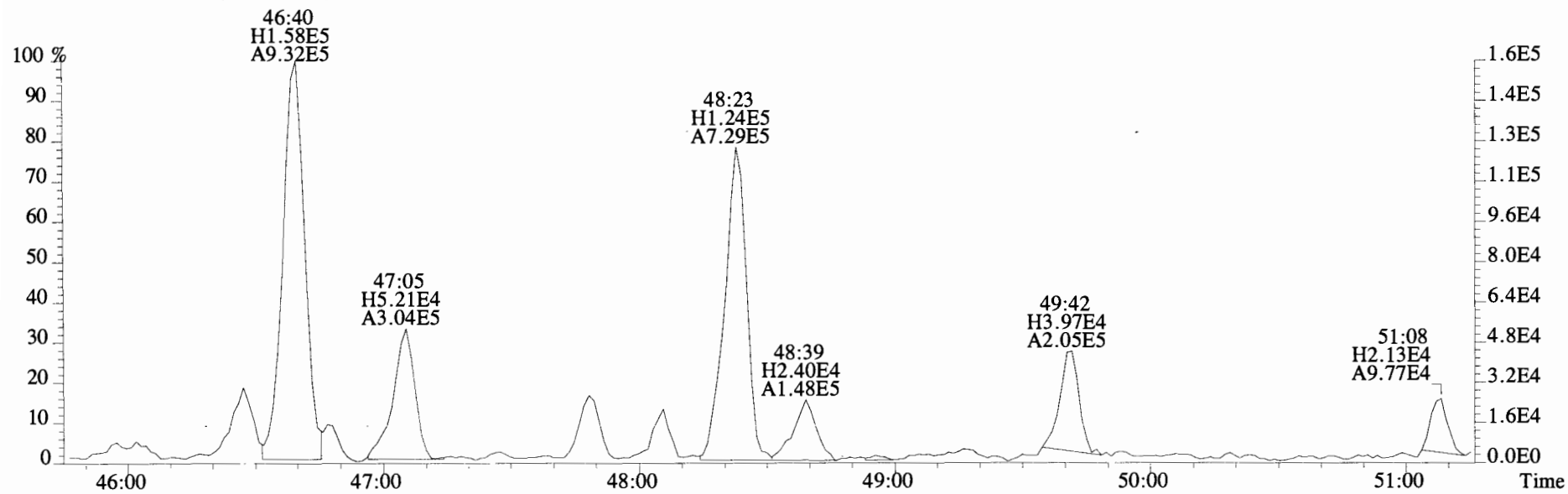
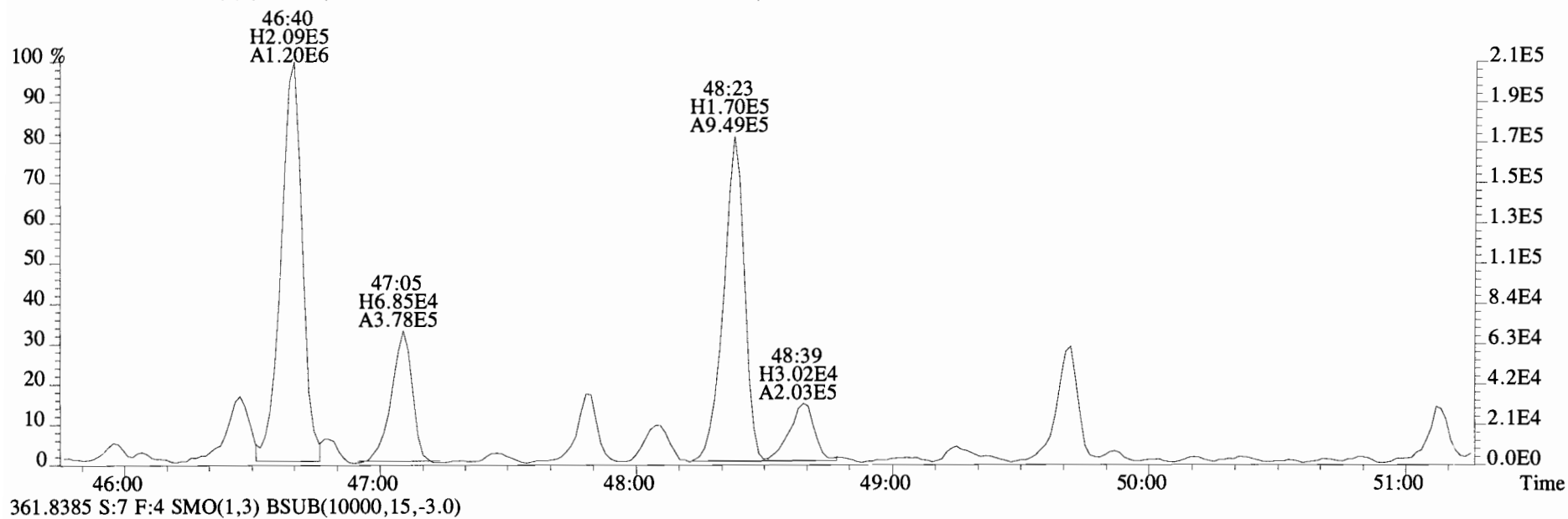
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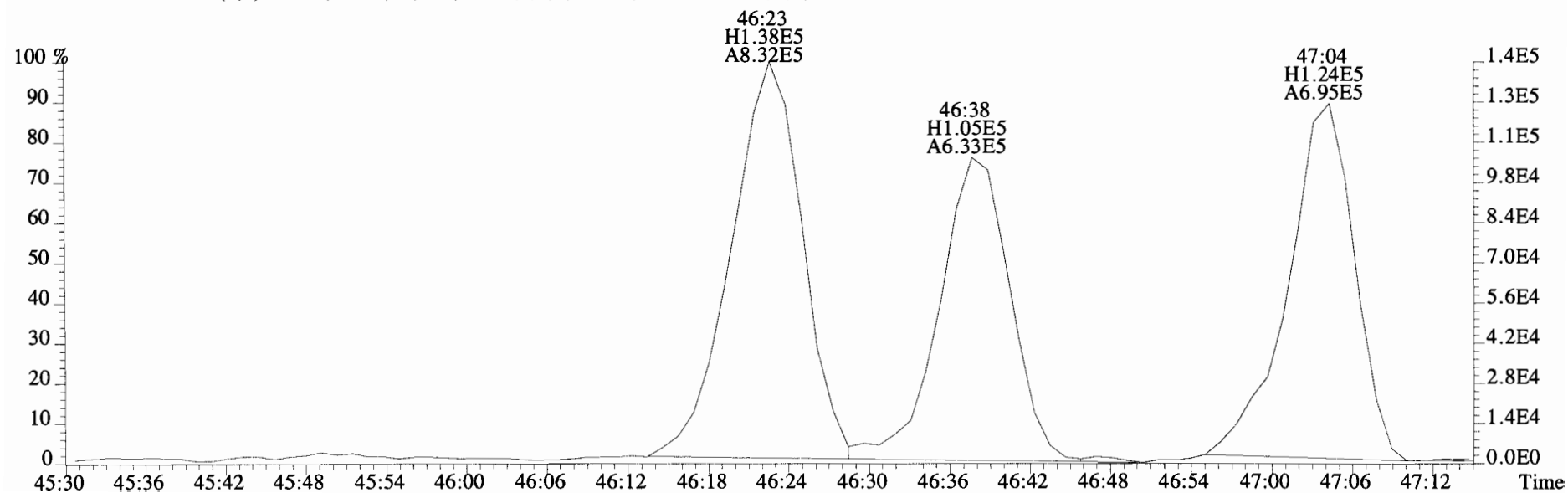
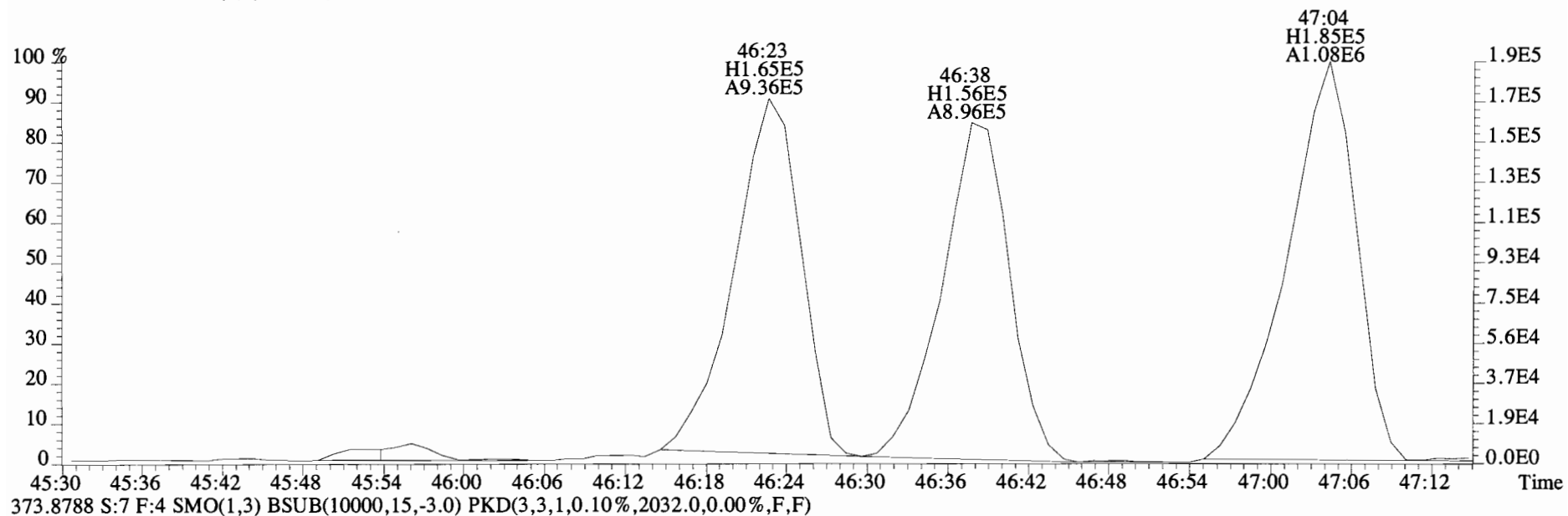
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)

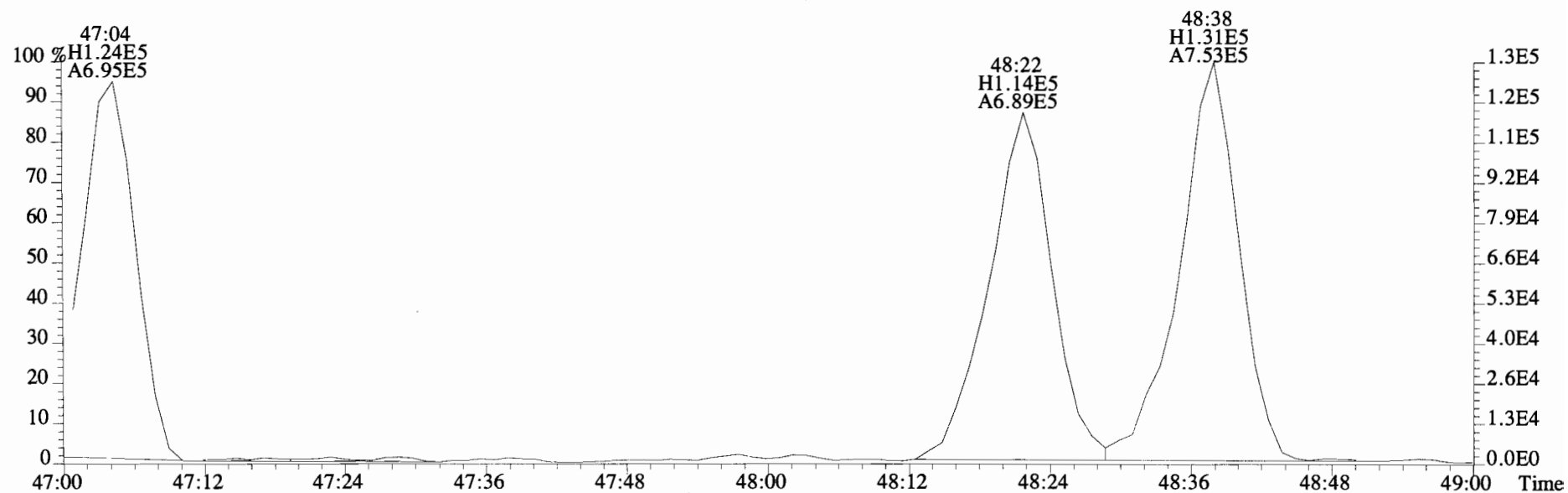
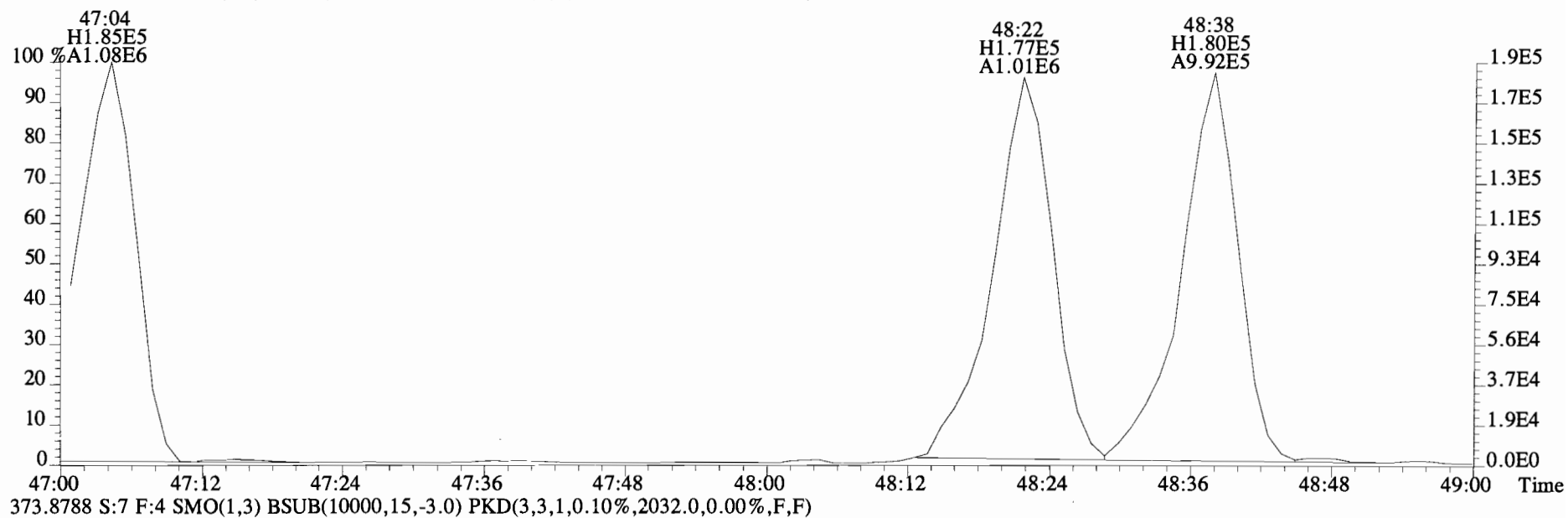


File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)

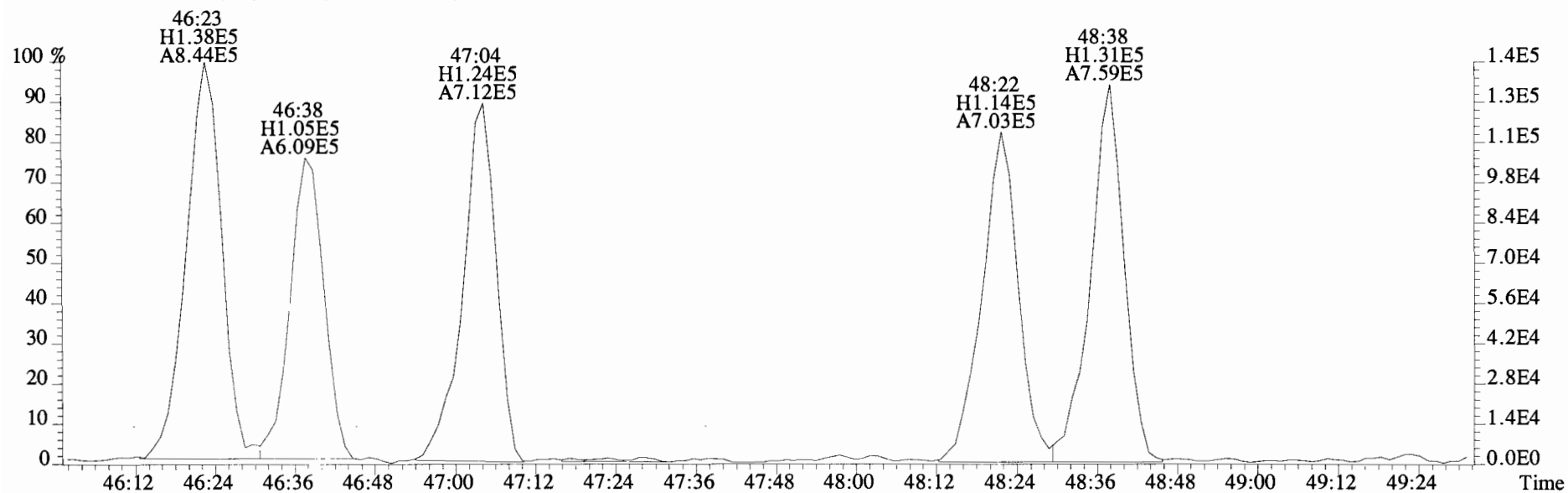
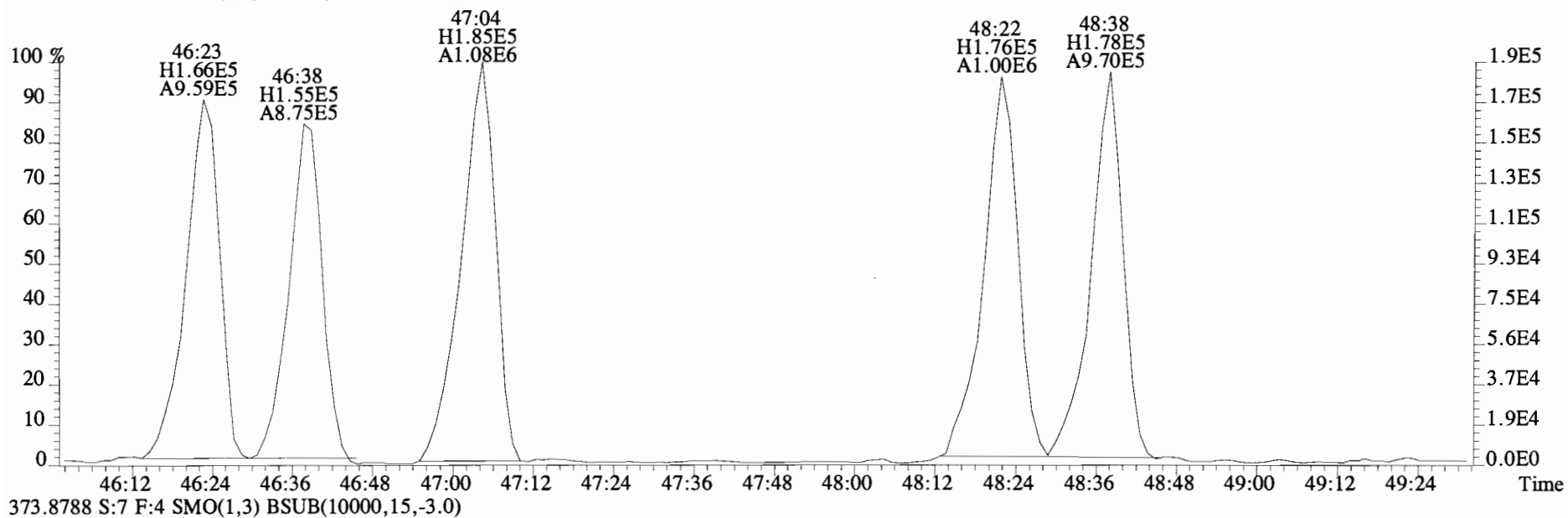




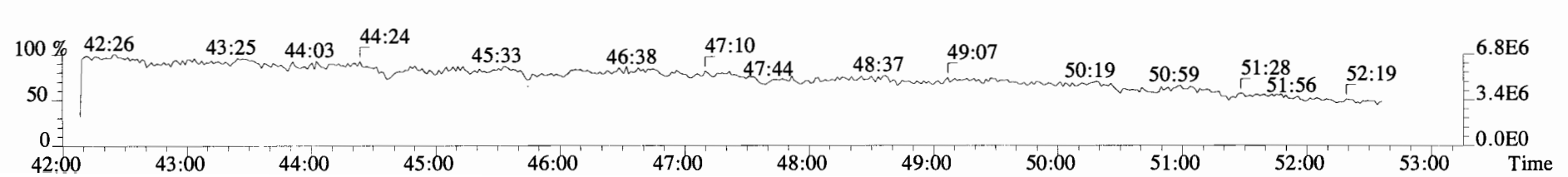
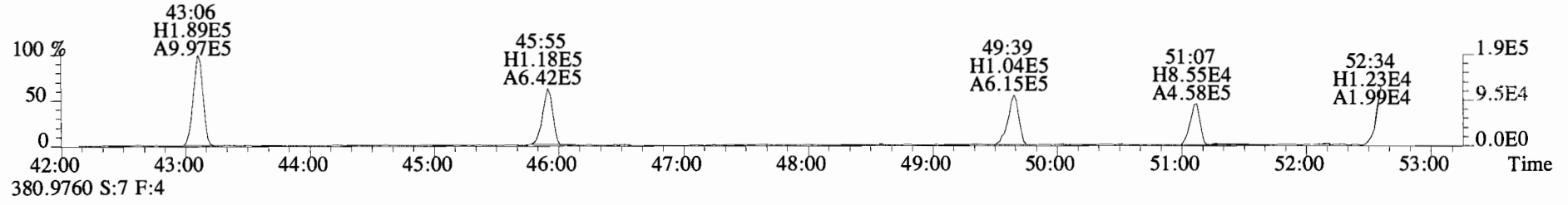
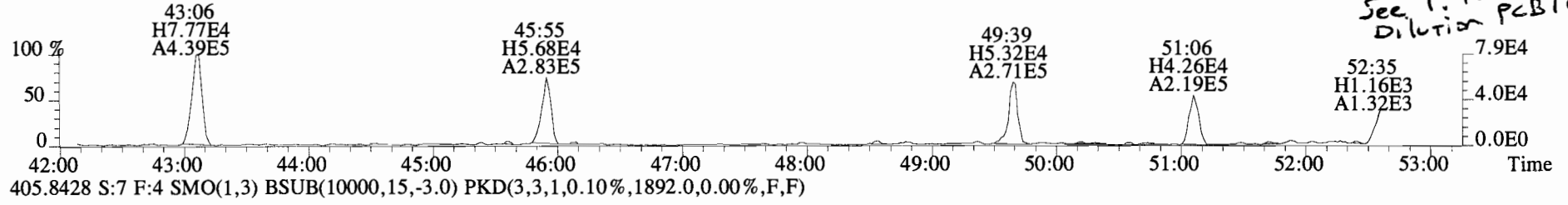
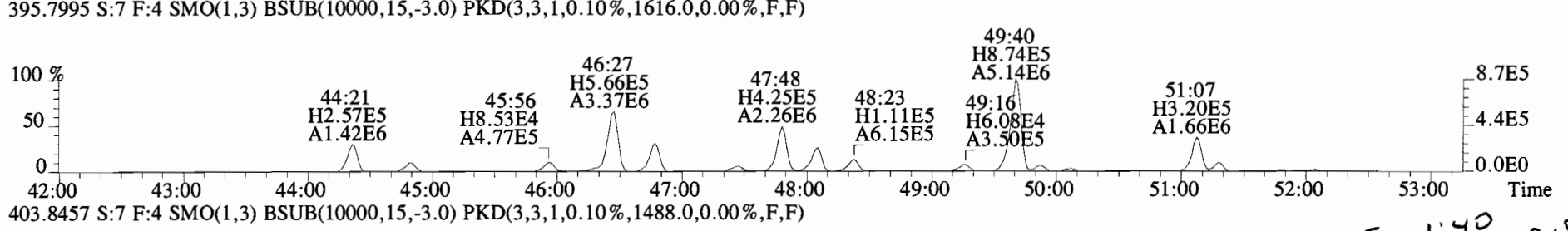
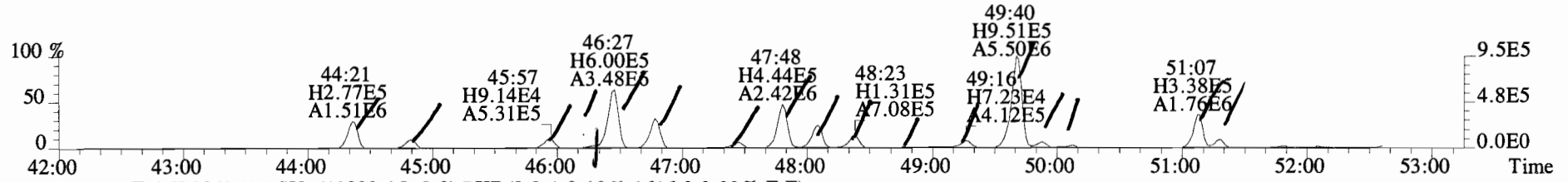
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)



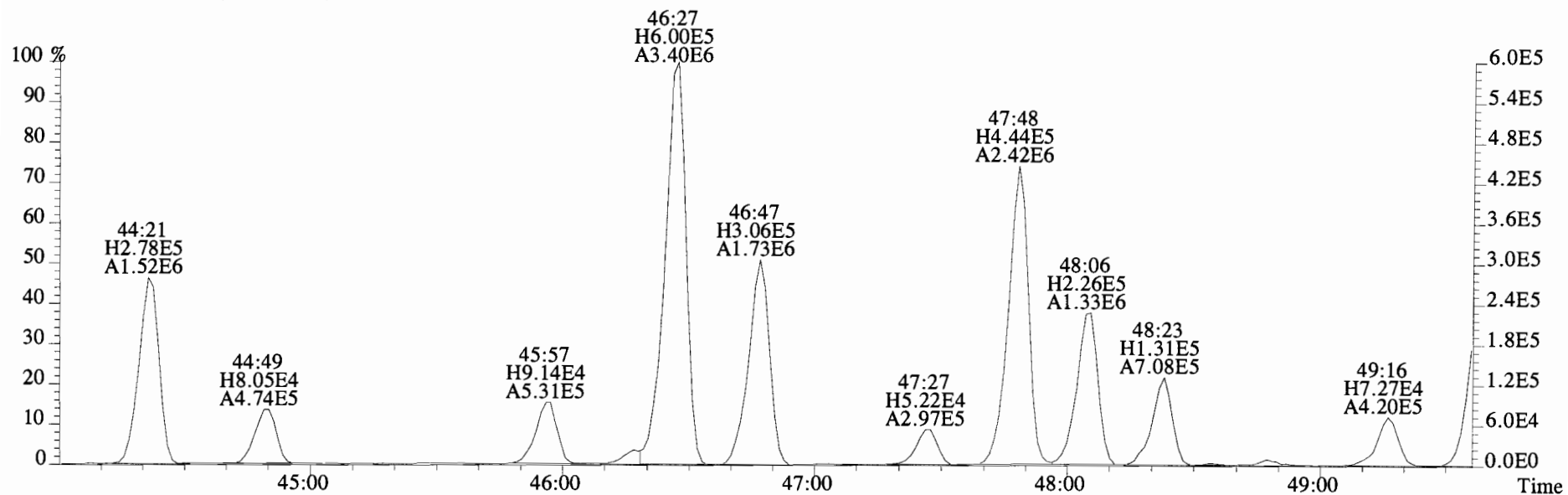
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371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



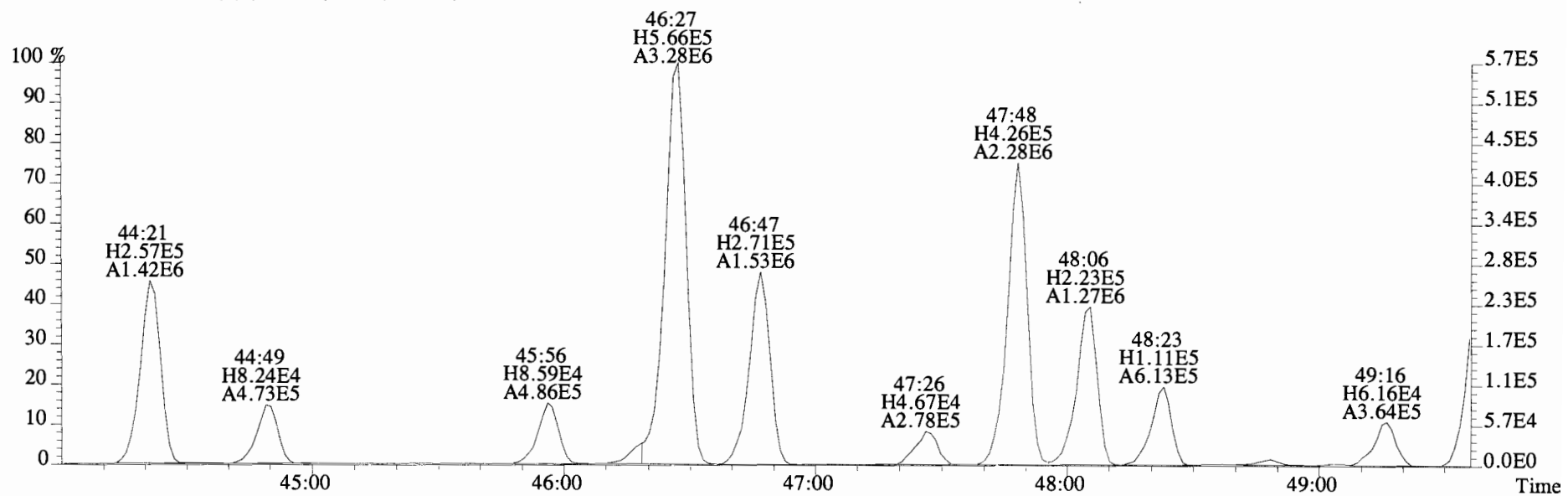
File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1656.0,0.00%,F,F)



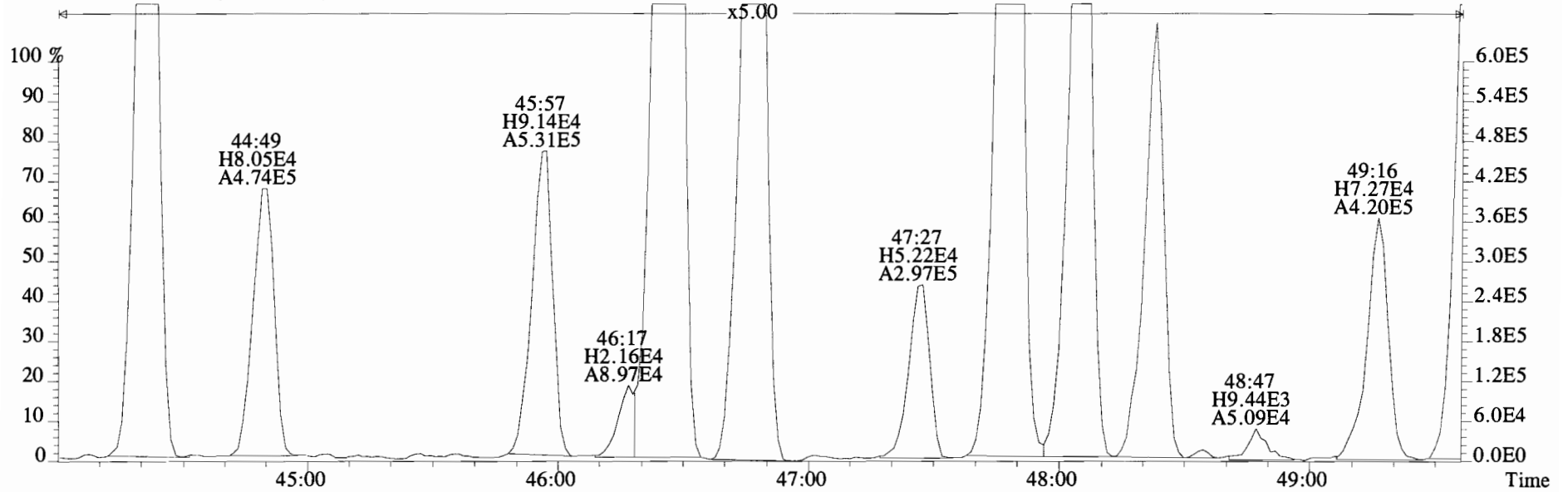
File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



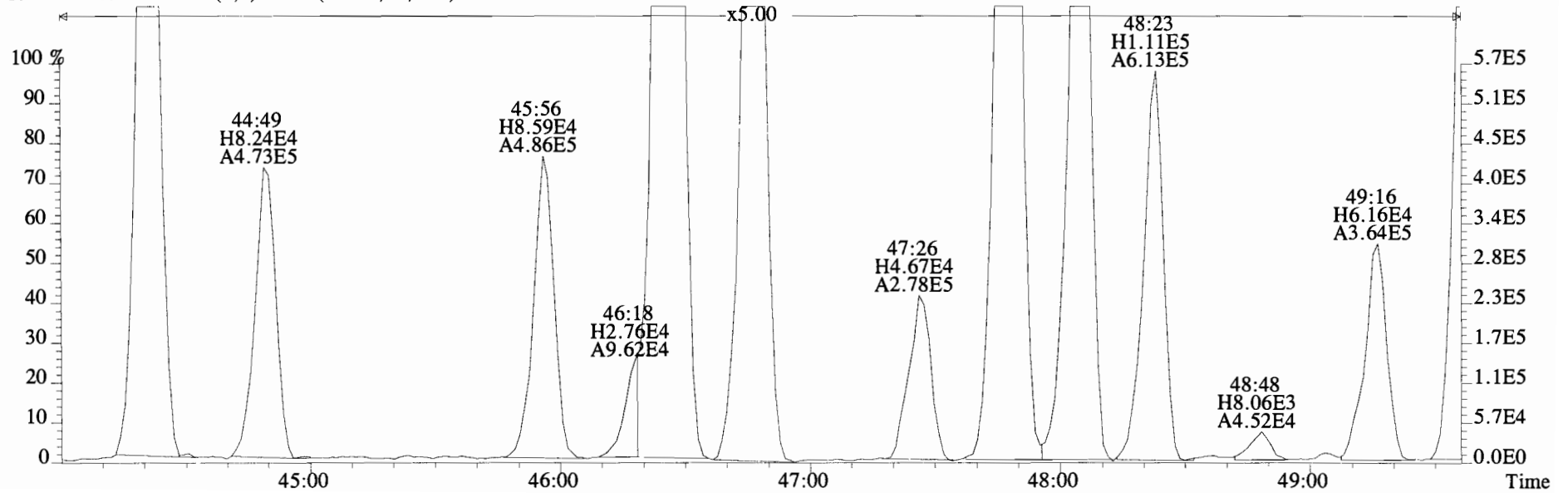
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



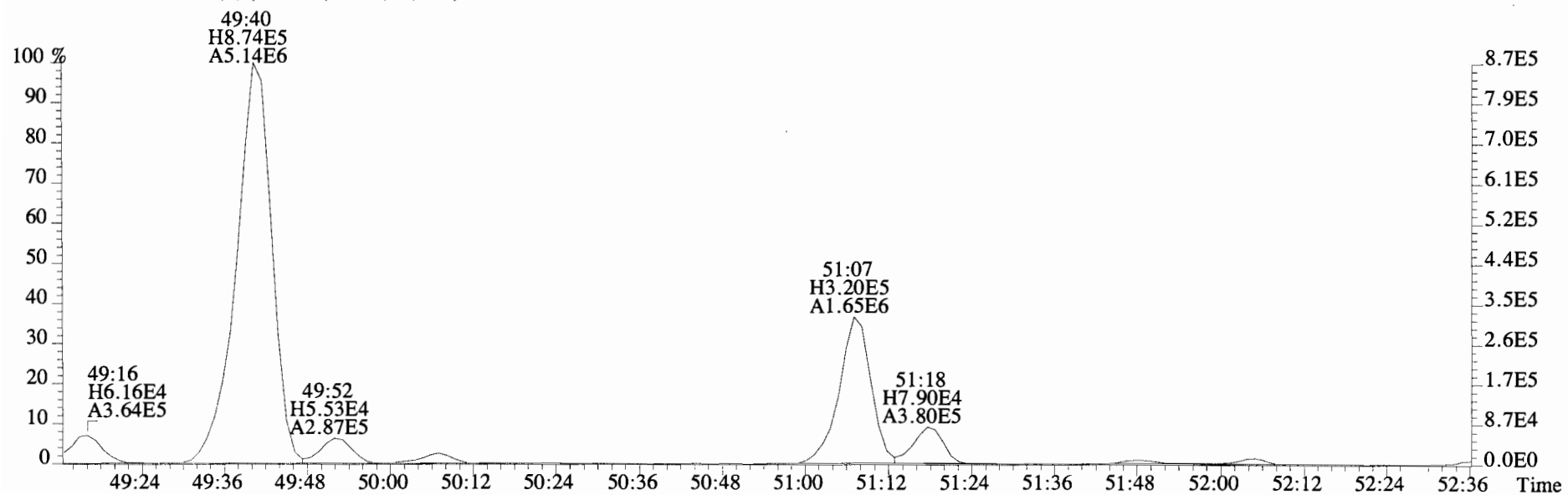
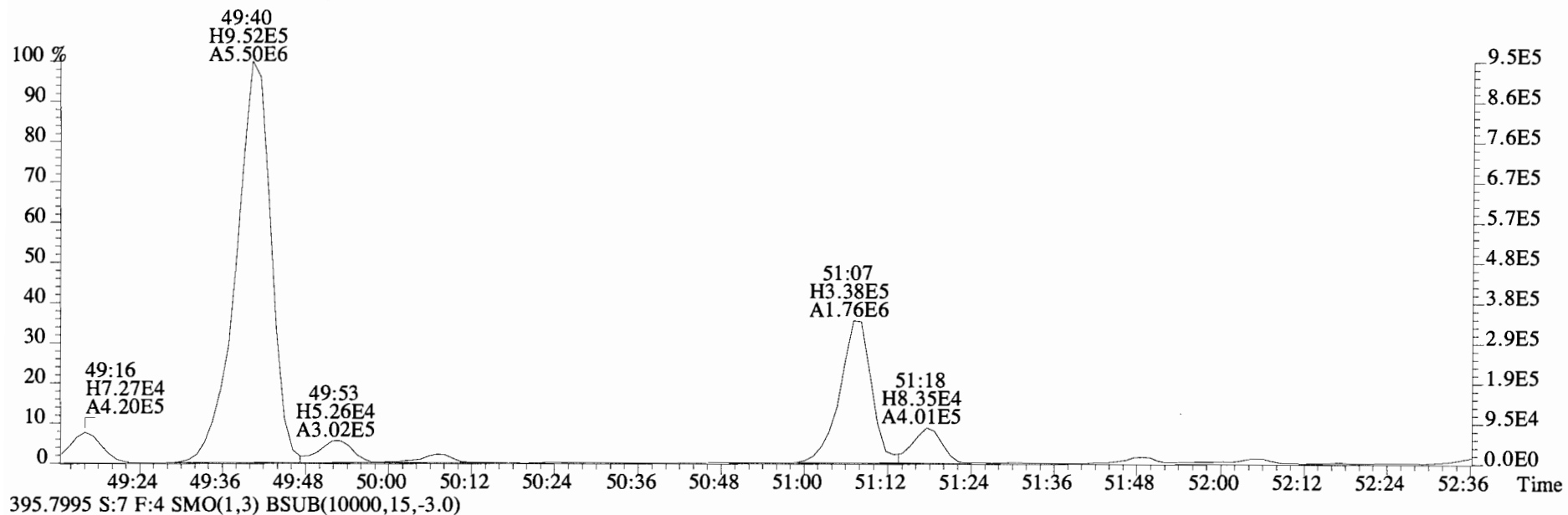
File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



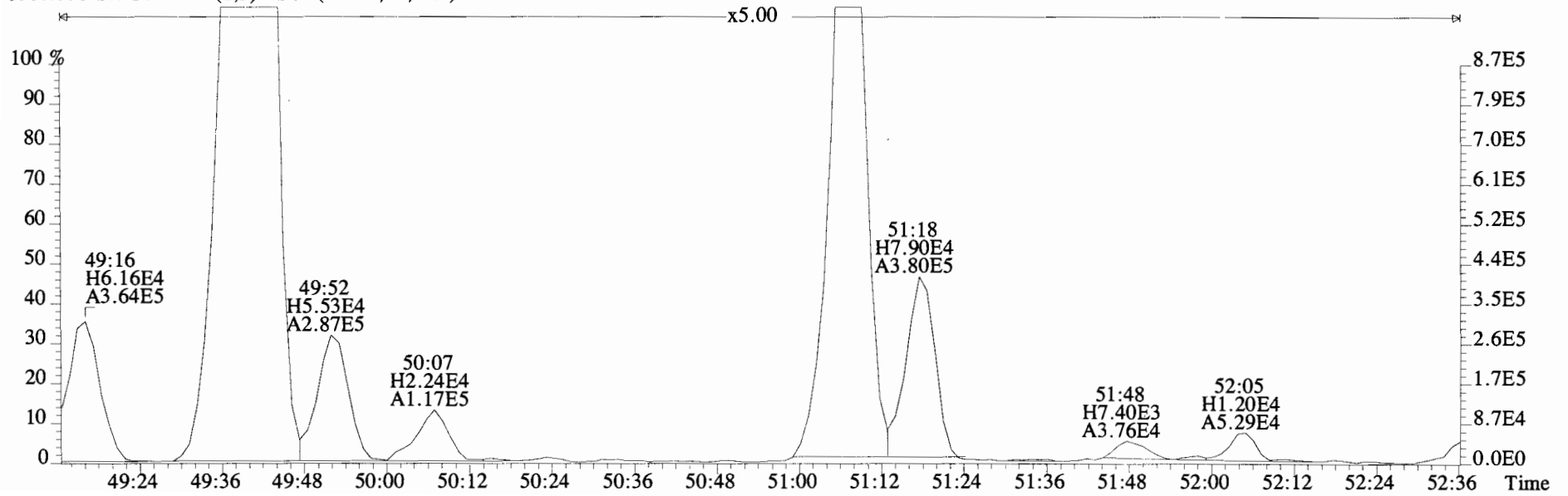
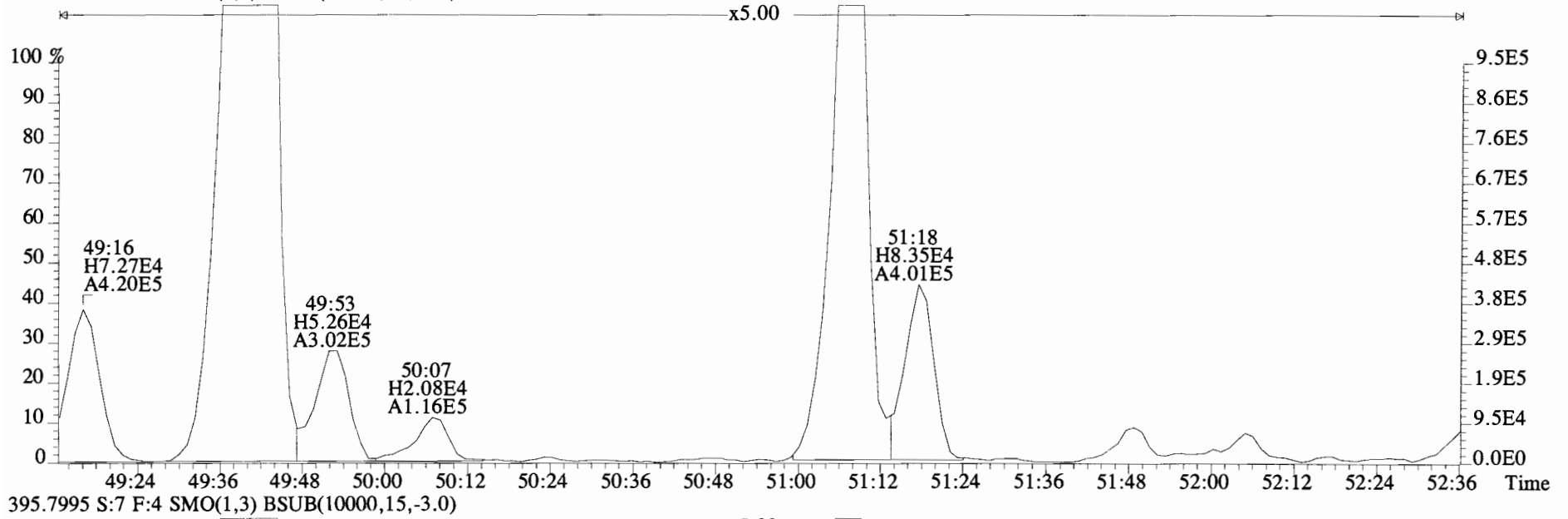
395.7995 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



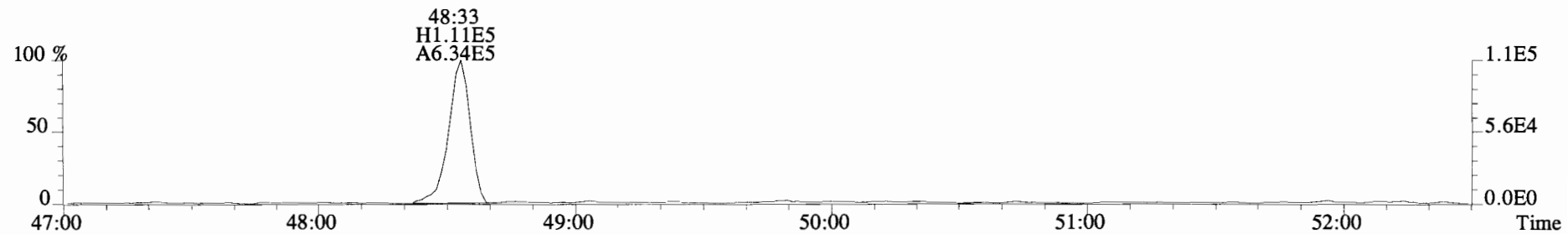
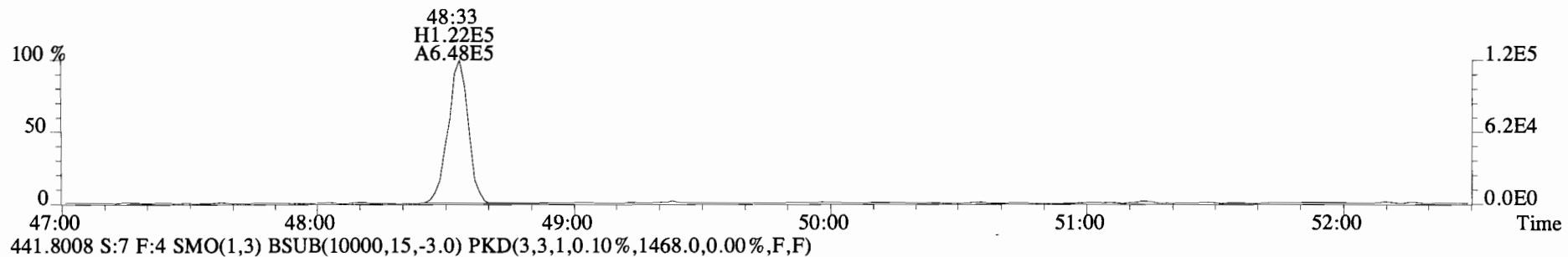
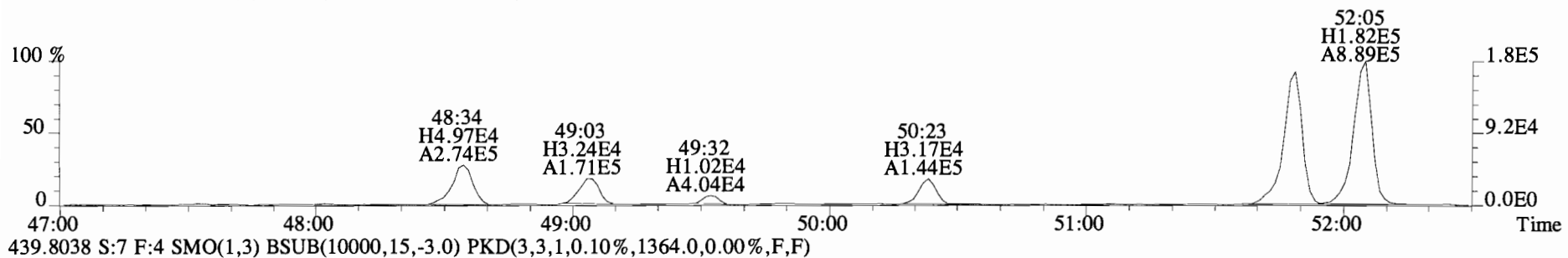
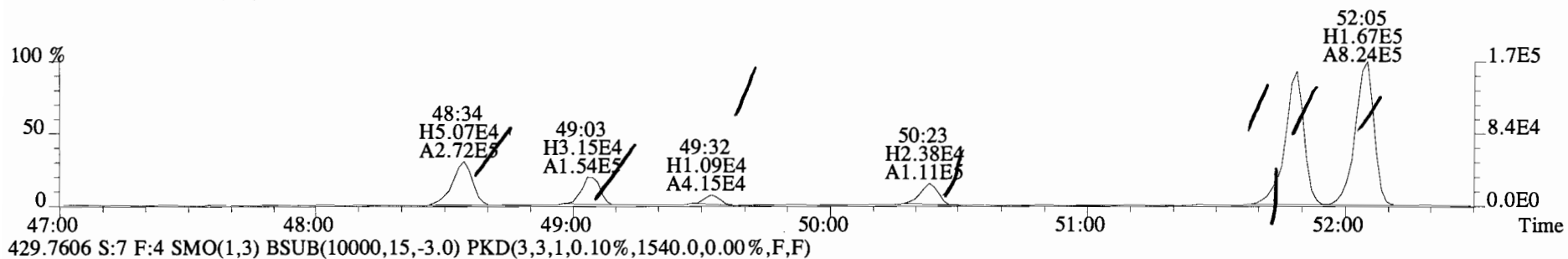
File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
 393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)

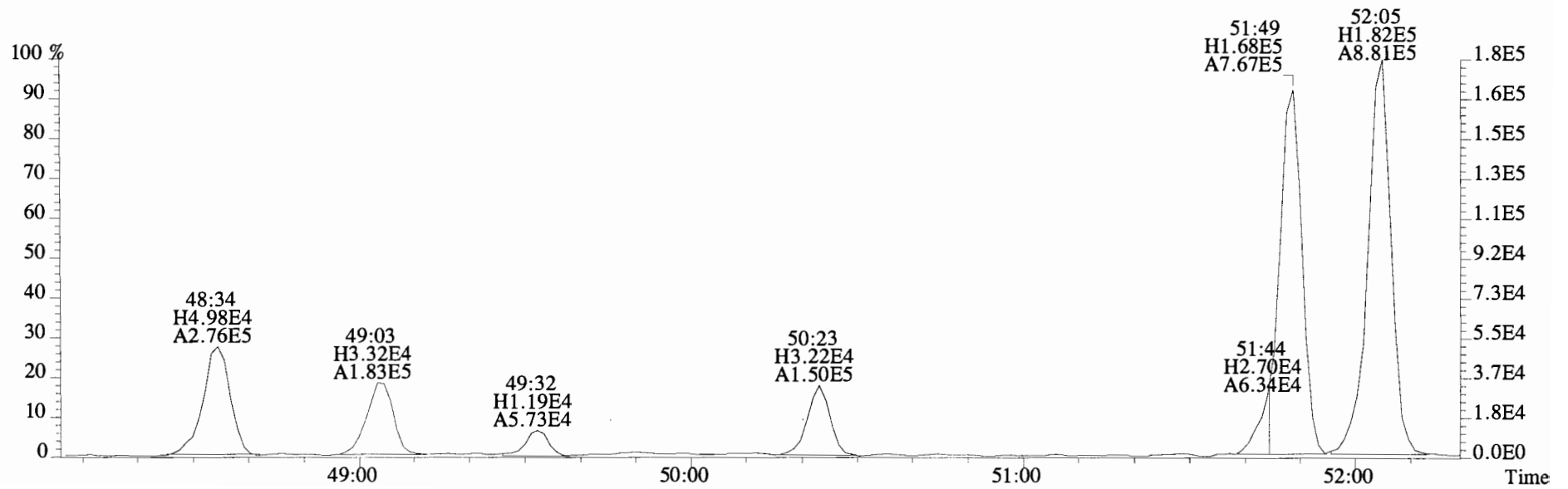
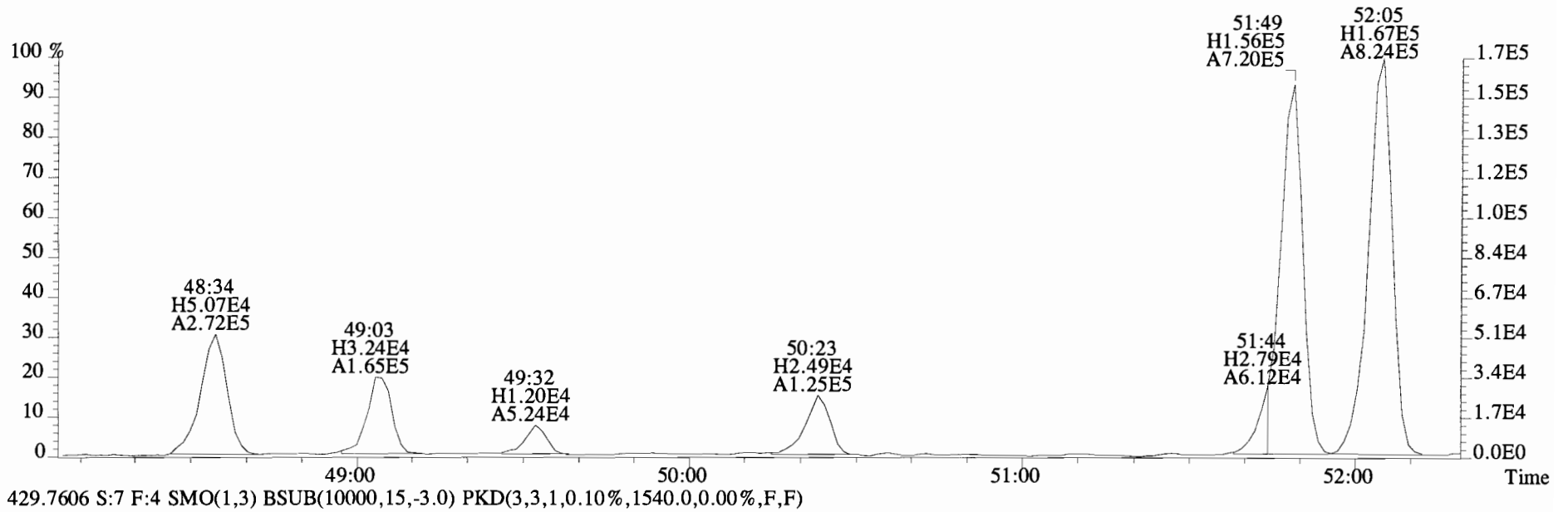


File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1616.0,0.00%,F,F)

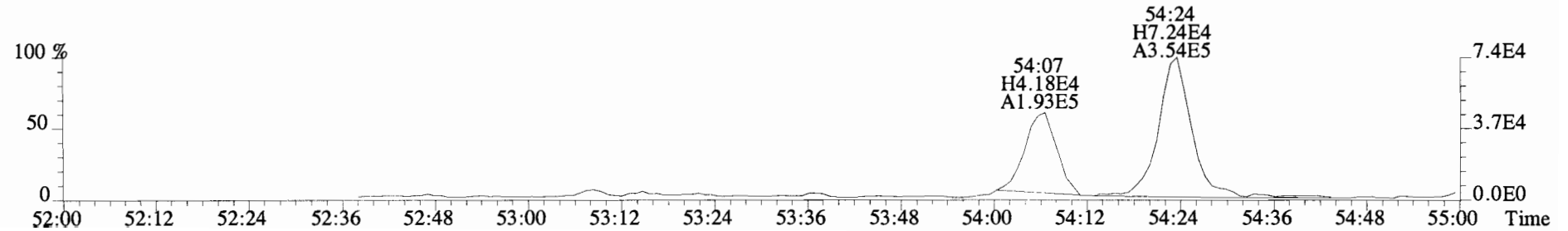
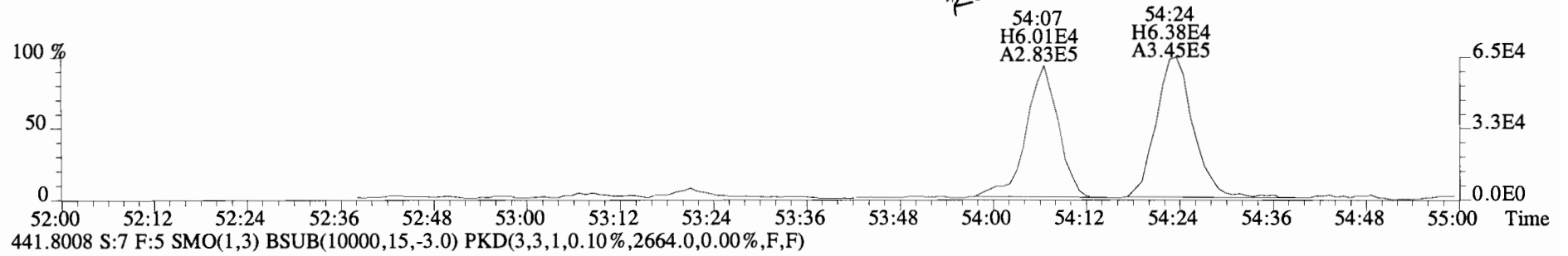
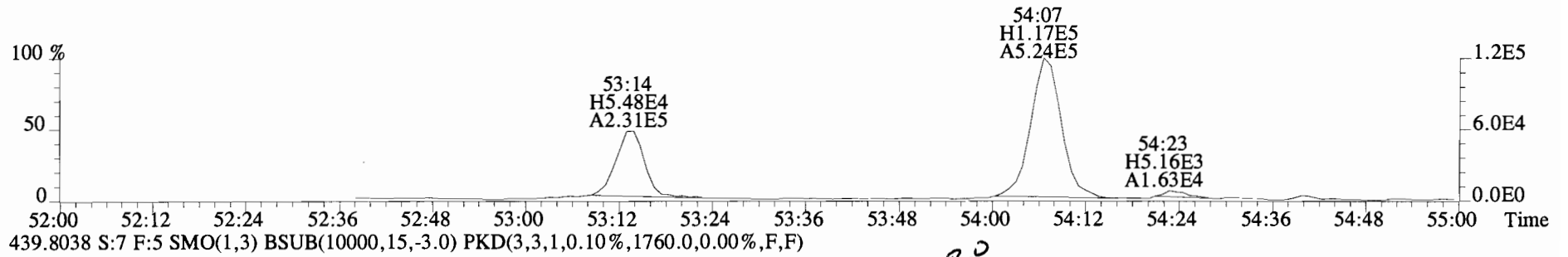
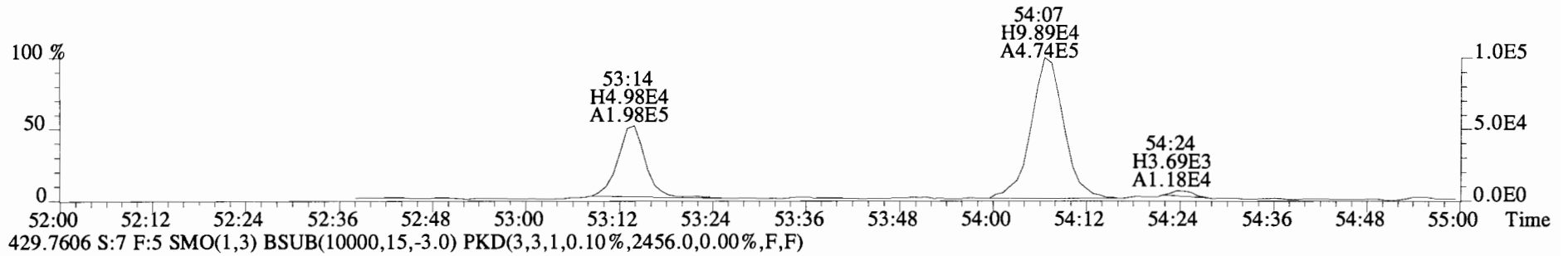




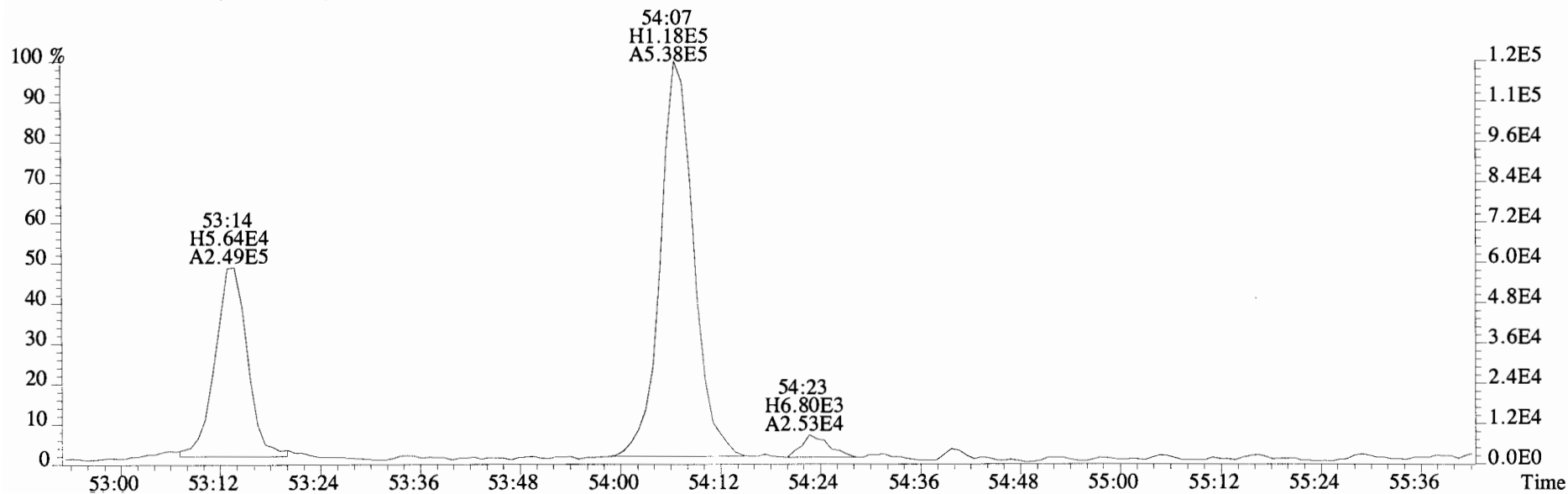
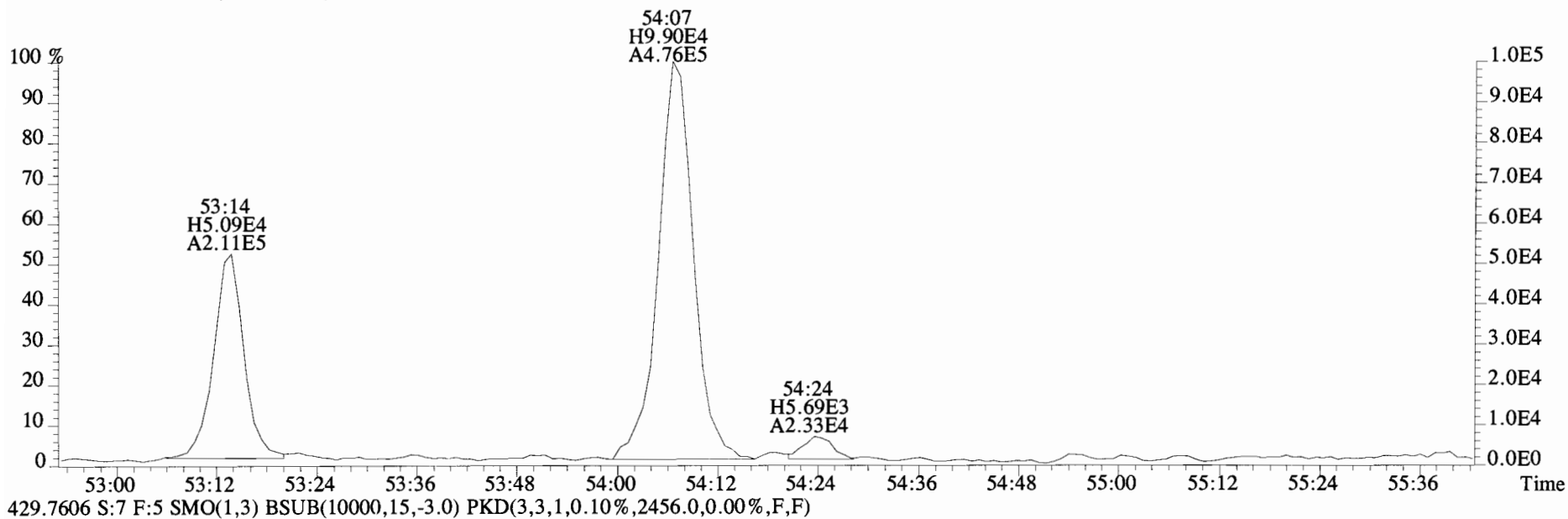
File:140919E2 #1-544 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1616.0,0.00%,F,F)



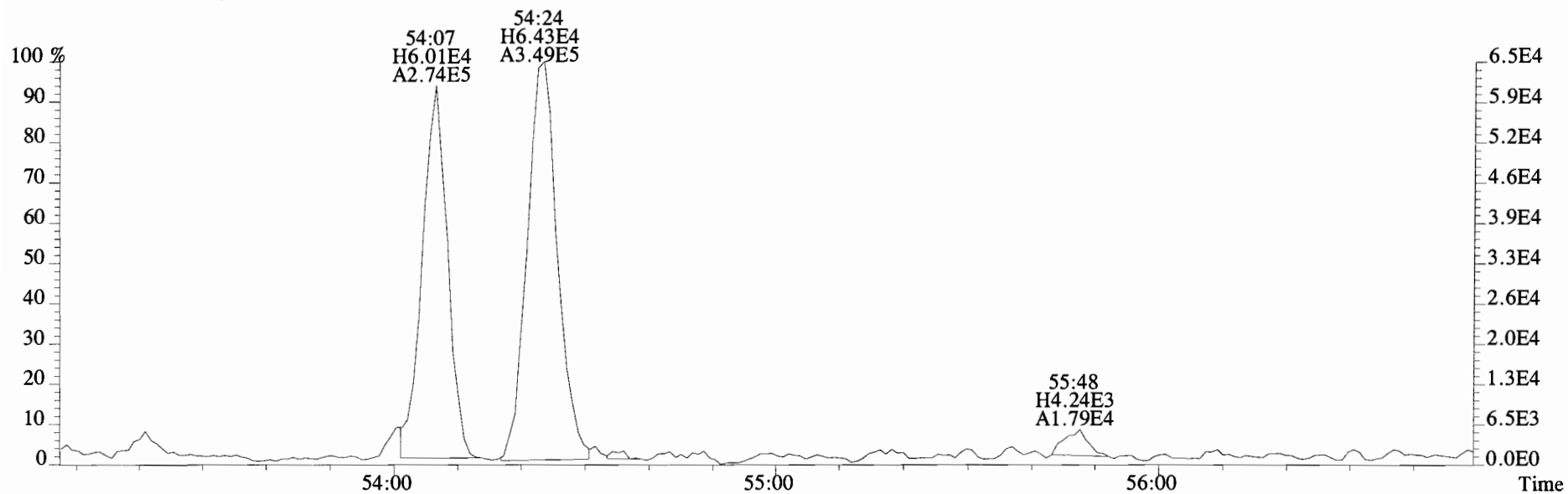
File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



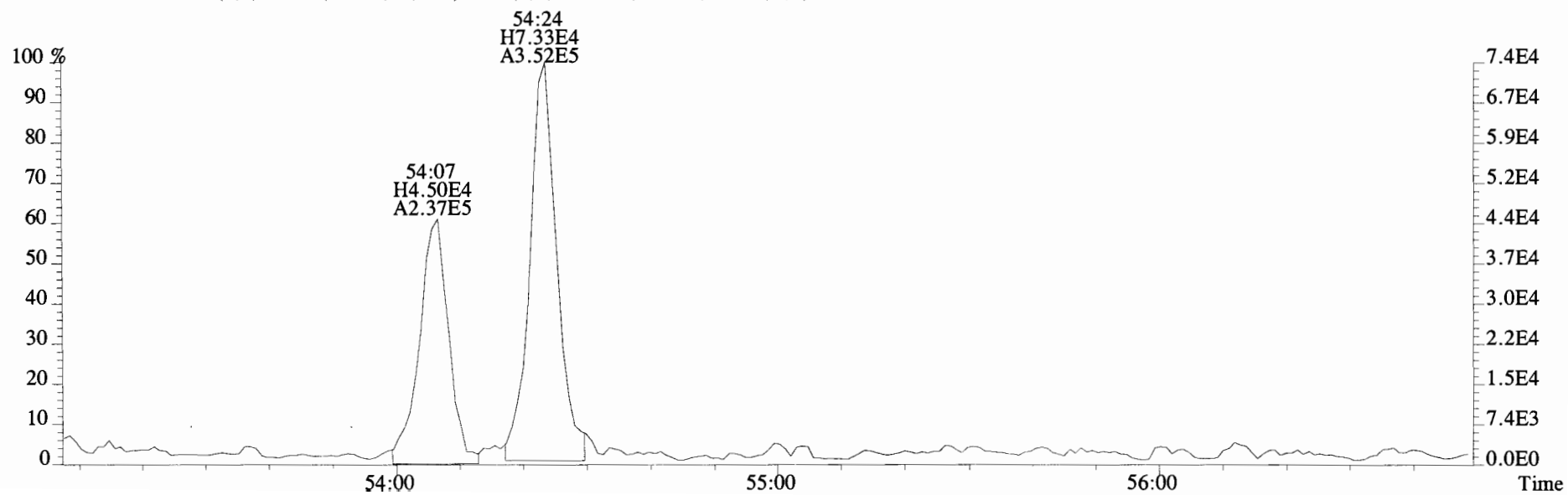
File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



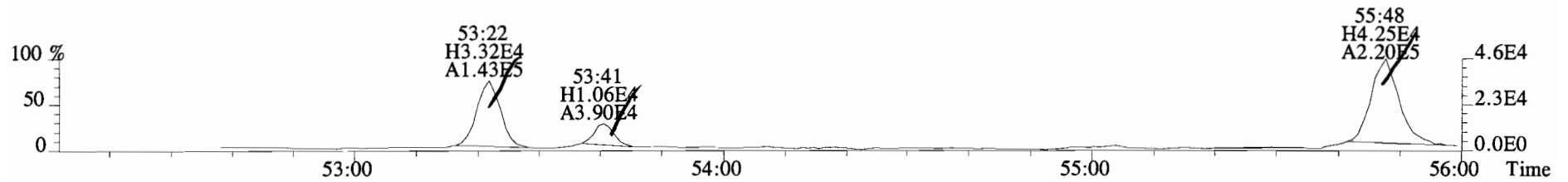
File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
439.8038 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1760.0,0.00%,F,F)



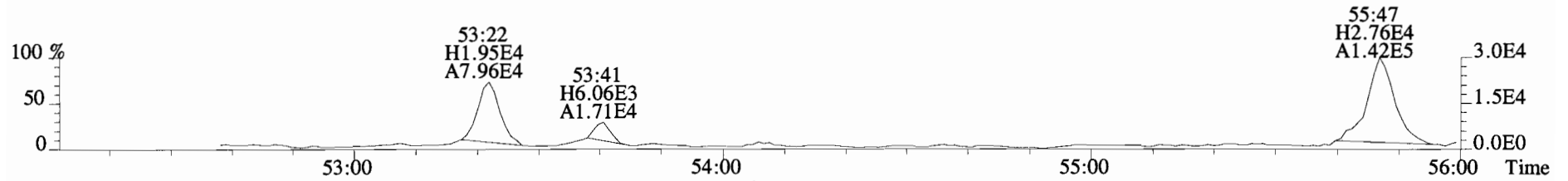
441.8008 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2664.0,0.00%,F,F)



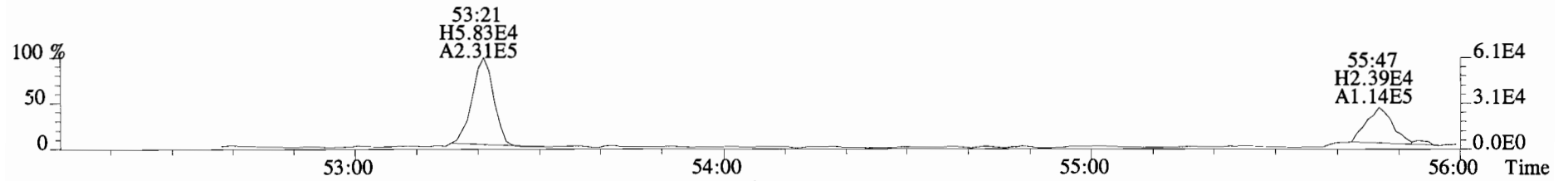
File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



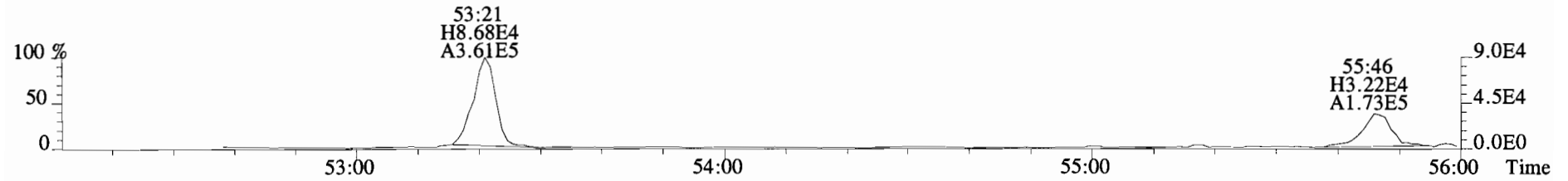
465.7186 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1468.0,0.00%,F,F)



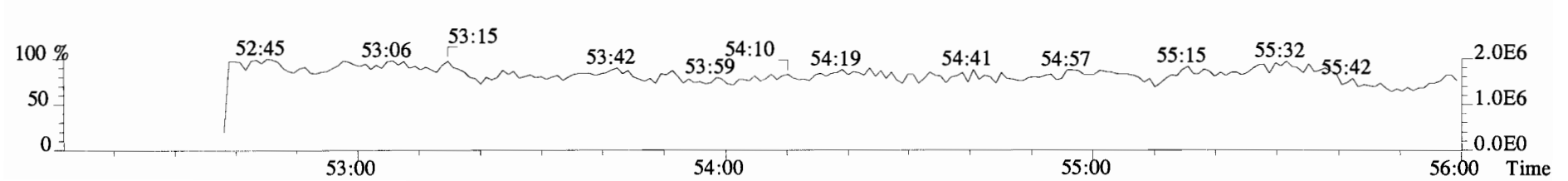
473.7648 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1776.0,0.00%,F,F)



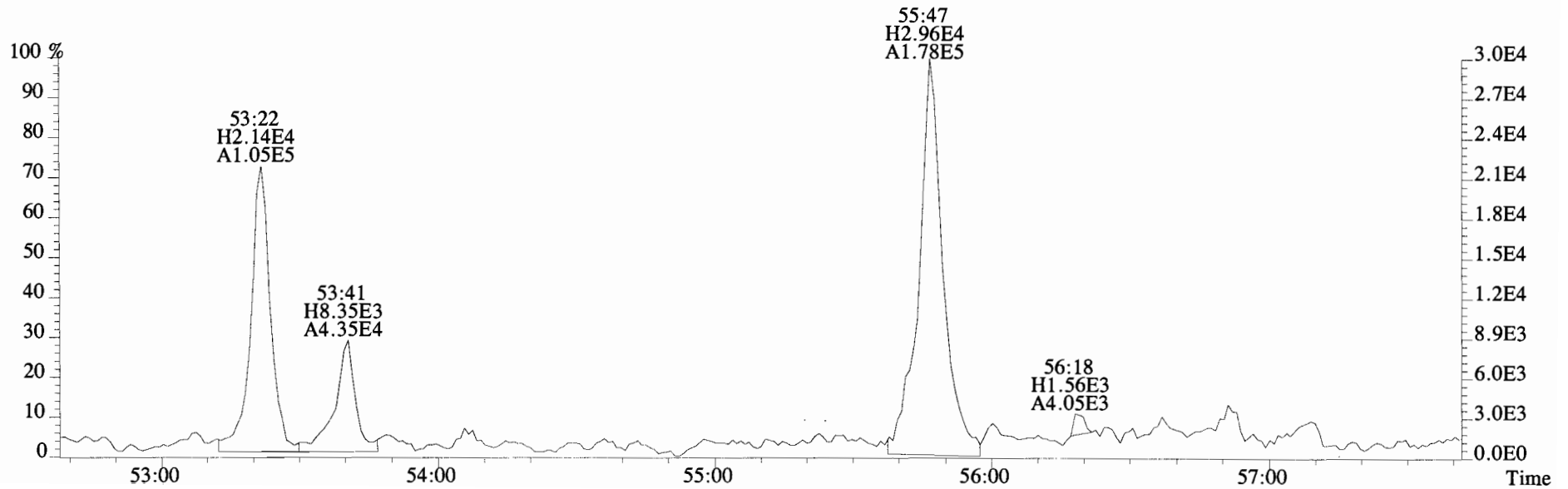
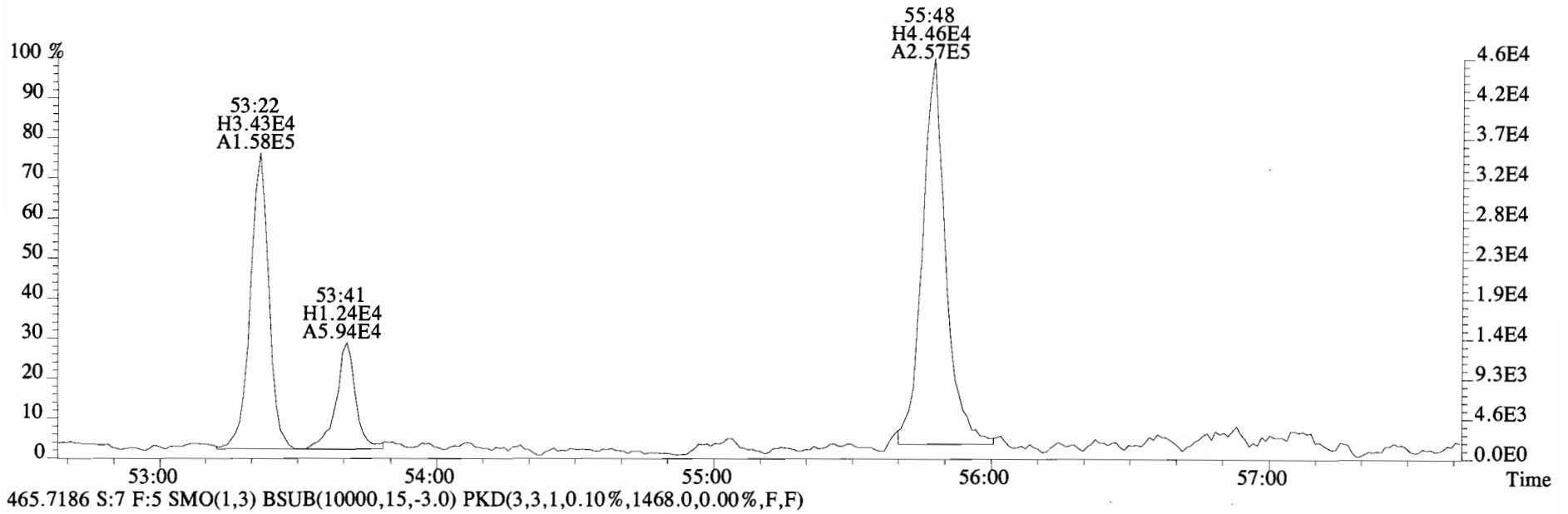
475.7619 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



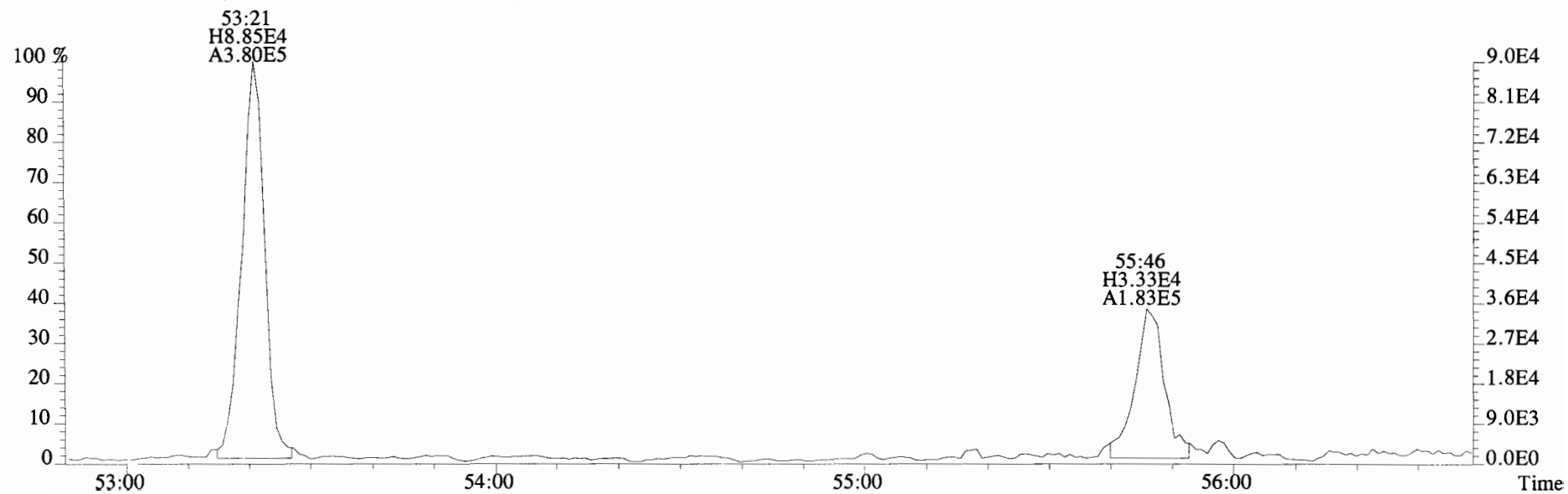
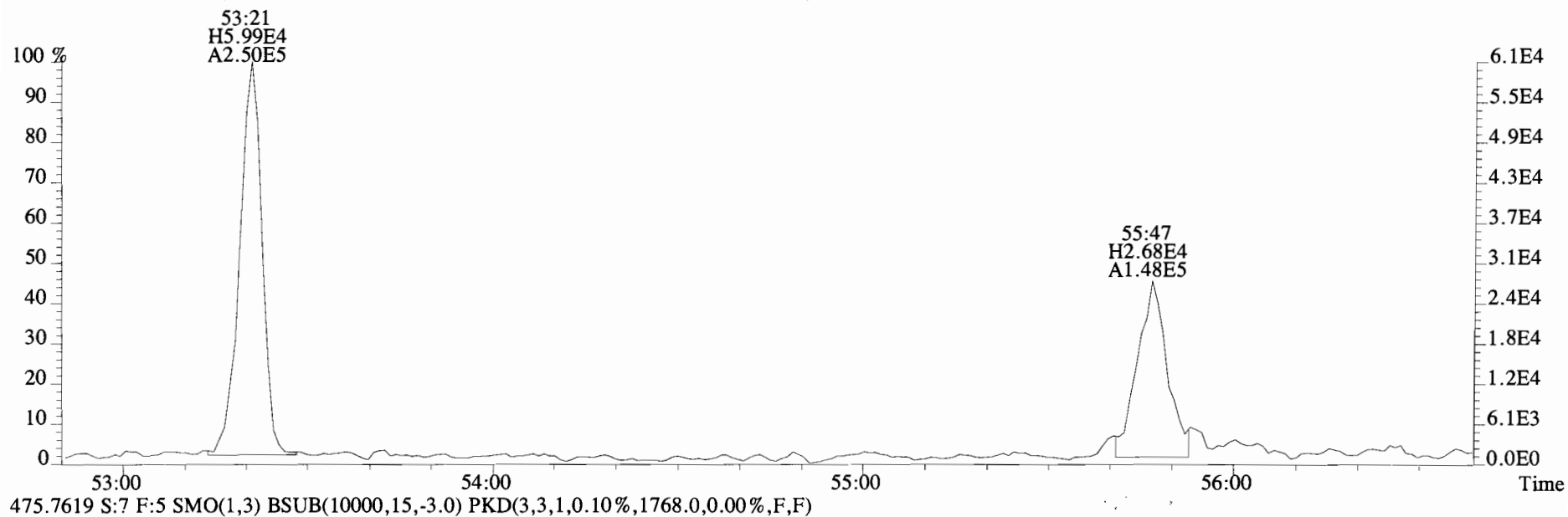
492.9697 S:7 F:5



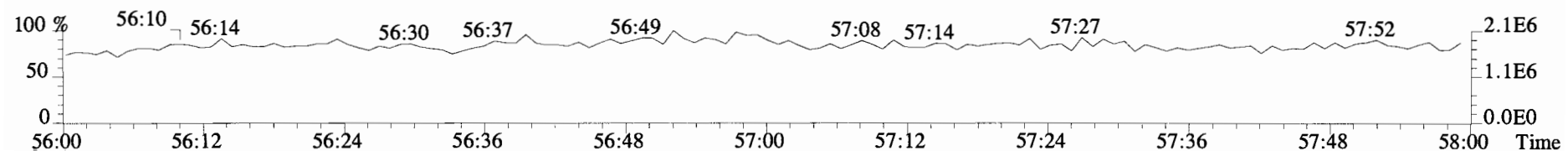
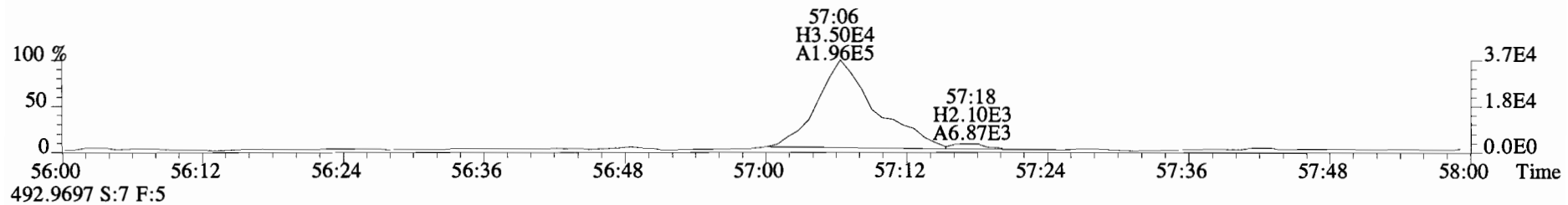
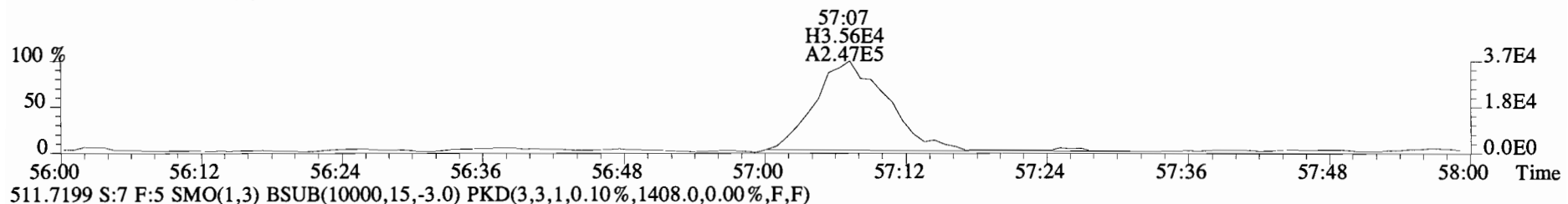
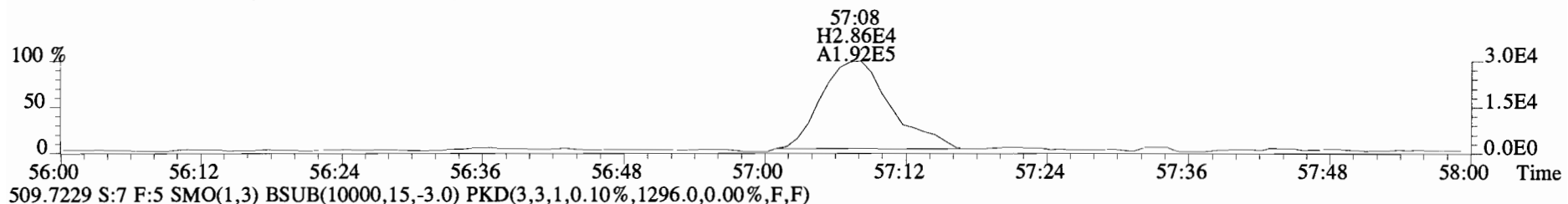
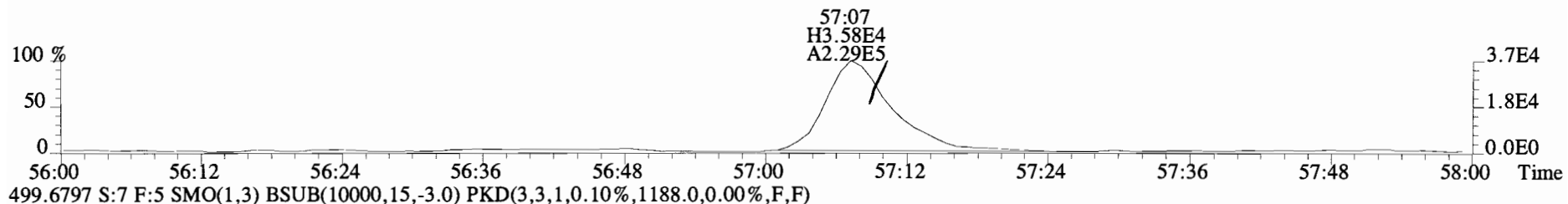
File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
473.7648 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1776.0,0.00%,F,F)



File:140919E2 #1-429 Acq:20-SEP-2014 06:09:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE1 CS-CB-01-20140903-S DL 1:20 Exp:PCB\_ZB1  
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1052.0,0.00%,F,F)





Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04RE2 DL 1:40

Filename: 140922E1  
GC Column ID: ZB-1

S:6 Acq:22-SEP-14 20:47:04  
ICal: PCBVG8-6-23-14 wt/vol:3.0030

ConCal: ST140922E1-2  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	* n	NotF $\eta$	0.82	*		*	2.5	*	*	0.977-0.987	
Hexa	PCB-131	*	* n	NotF $\eta$	0.91	*		*	2.5	*	*	0.981-0.991	
Hexa	PCB-146/165	*	* n	NotF $\eta$	1.25	*		*	2.5	*	*	0.986-0.996	
Hexa	PCB-132/161	*	* n	NotF $\eta$	1.10	*		*	2.5	*	*	0.991-1.001	
Hexa	PCB-153	*	* n	NotF $\eta$	1.25	*		*	2.5	*	*	0.995-1.005	
Hexa	PCB-168	*	* n	NotF $\eta$	1.45	*		*	2.5	*	*	1.000-1.010	
Hexa	PCB-141	*	* n	NotF $\eta$	1.09	*		*	2.5	*	*	0.995-1.005	
Hexa	PCB-137	*	* n	NotF $\eta$	1.06	*		*	2.5	*	*	1.004-1.014	
Hexa	PCB-130	*	* n	NotF $\eta$	0.96	*		*	2.5	*	*	1.006-1.016	
Hexa	PCB-138/163/164	*	* n	NotF $\eta$	1.29	*		*	2.5	*	*	0.995-1.005	
Hexa	PCB-158/160	*	* n	NotF $\eta$	1.34	*		*	2.5	*	*	1.001-1.011	
Hexa	PCB-129	*	* n	NotF $\eta$	0.85	*		*	2.5	*	*	1.006-1.016	
Hexa	PCB-166	*	* n	NotF $\eta$	1.19	*		*	2.5	*	*	0.988-0.998	
Hexa	PCB-159	*	* n	NotF $\eta$	1.11	*		*	2.5	*	*	0.995-1.005	
Hexa	PCB-128/162	*	* n	NotF $\eta$	1.05	*		*	2.5	*	*	1.001-1.011	
Hexa	PCB-167	1.51e+05	1.23 y	47:04	1.20	1250		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	*	* n	NotF $\eta$	1.14	*		*	2.5	*	*	0.996-1.006	
Hexa	PCB-157	*	* n	NotF $\eta$	1.16	*		*	2.5	*	*	0.995-1.005	
Hexa	PCB-169	*	* n	NotF $\eta$	1.12	*		*	2.5	*	*	0.995-1.005	
Hepta	PCB-188	*	* n	NotF $\eta$	1.58	*		*	2.5	*	*	0.995-1.005	
Hepta	PCB-184	*	* n	NotF $\eta$	1.63	*		*	2.5	*	*	1.006-1.016	
Hepta	PCB-179	*	* n	NotF $\eta$	1.30	*		*	2.5	*	*	1.024-1.034	
Hepta	PCB-176	*	* n	NotF $\eta$	1.48	*		*	2.5	*	*	1.035-1.045	
Hepta	PCB-186	*	* n	NotF $\eta$	1.45	*		*	2.5	*	*	1.049-1.059	
Hepta	PCB-178	*	* n	NotF $\eta$	1.03	*		*	2.5	*	*	1.060-1.070	
Hepta	PCB-175	*	* n	NotF $\eta$	1.01	*		*	2.5	*	*	1.069-1.079	
Hepta	PCB-182/187	*	* n	NotF $\eta$	1.25	*		*	2.5	*	*	1.073-1.083	
Hepta	PCB-183	*	* n	NotF $\eta$	1.21	*		*	2.5	*	*	1.080-1.090	
Hepta	PCB-185	*	* n	NotF $\eta$	1.80	*		*	2.5	*	*	0.951-0.961	
Hepta	PCB-174	*	* n	NotF $\eta$	1.38	*		*	2.5	*	*	0.958-0.968	
Hepta	PCB-181	*	* n	NotF $\eta$	1.38	*		*	2.5	*	*	0.960-0.970	
Hepta	PCB-177	*	* n	NotF $\eta$	1.26	*		*	2.5	*	*	0.964-0.974	
Hepta	PCB-171	*	* n	NotF $\eta$	1.58	*		*	2.5	*	*	0.970-0.980	
Hepta	PCB-173	*	* n	NotF $\eta$	1.11	*		*	2.5	*	*	0.978-0.988	
Hepta	PCB-172	*	* n	NotF $\eta$	1.63	*		*	2.5	*	*	0.987-0.997	
Hepta	PCB-192	*	* n	NotF $\eta$	1.74	*		*	2.5	*	*	0.991-1.001	
Hepta	PCB-180	*	* n	NotF $\eta$	1.34	*		*	2.5	*	*	0.995-1.005	

Analyst: DMS

*[Handwritten Signature]*  
9/23/14

Date: 9/23/14

Client ID: CS-CB-01-20140903-S  
Lab ID: 1400647-04RE2 DL 1:40

Filename: 140922E1 S:6 Acq:22-SEP-14 20:47:04  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:3.0030

ConCal: ST140922E1-2  
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	*	*	1.000-1.010	
Hepta	PCB-191	*	* n	NotFη	1.69	*		*	2.5	*	*	1.005-1.015	
Hepta	PCB-170	*	* n	NotFη	1.60	*		*	2.5	*	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotFη	2.21	*		*	2.5	*	*	0.999-1.009	
Hepta	PCB-189	*	* n	NotFη	1.55	*		1310	2.5	416	*	0.995-1.005	
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	*	*	1.009-1.019	
Octa	PCB-197	*	* n	NotFη	1.07	*		*	2.5	*	*	1.015-1.025	
Octa	PCB-200	*	* n	NotFη	1.06	*		*	2.5	*	*	1.034-1.044	
Octa	PCB-198	*	* n	NotFη	0.76	*		*	2.5	*	*	1.062-1.072	
Octa	PCB-199	*	* n	NotFη	0.80	*		*	2.5	*	*	1.064-1.074	
Octa	PCB-196/203	*	* n	NotFη	0.80	*		*	2.5	*	*	1.070-1.080	
Octa	PCB-195	7.74e+04	0.98	y 53:14	1.23	2070		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	1.75e+05	0.84	y 54:07	1.21	4730		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	*	* n	NotFη	1.54	*		928	2.5	526	*	1.000-1.010	
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: 9/23/14

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.27	*	
Total Di-PCB	*	* n	NotFnd	1.21	*	
Total Tri-PCB	*	* n	NotFnd	1.10	*	
Total Tri-PCB	*	* n	NotFnd	1.21	*	Sum:0.00000
Total Tetra-PCB	*	* n	NotFnd	1.09	*	
Total Penta-PCB	*	* n	NotFnd	1.18	*	
Total Penta-PCB	*	* n	NotFnd	1.25	*	Sum:0.00000
Total Hexa-PCB	*	* n	NotFnd	0.90	*	
Total Hexa-PCB	1.51e+05	1.23 y	47:04	1.11	1247.58	Sum:1247.58
Total Hepta-PCB	*	* n	NotFnd	1.42	*	
Total Octa-PCB	*	* n	NotFnd	0.96	*	
Total Octa-PCB	2.52e+05	0.98 y	53:14	1.33	6793.87	Sum:6793.87
Total Nona-PCB	*	* n	NotFnd	1.01	*	
Total Deca-PCB	*	* n	NotFnd	1.17	*	

Total PCB Conc:13702.4329130

Integrations

by

Analyst: DMS

Date: 9/23/14

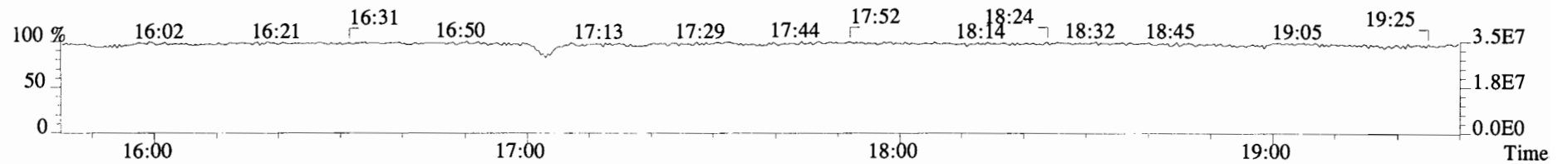
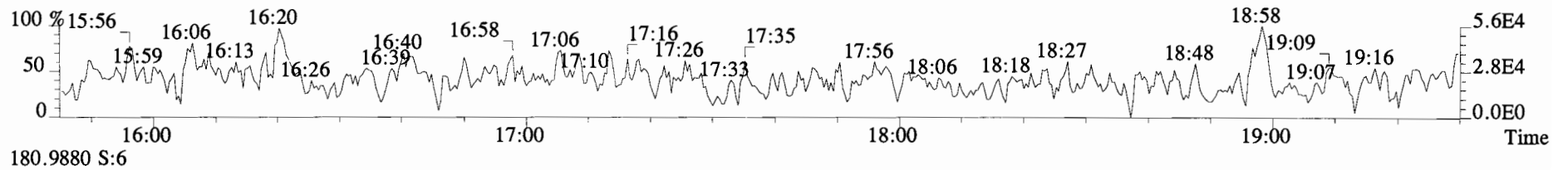
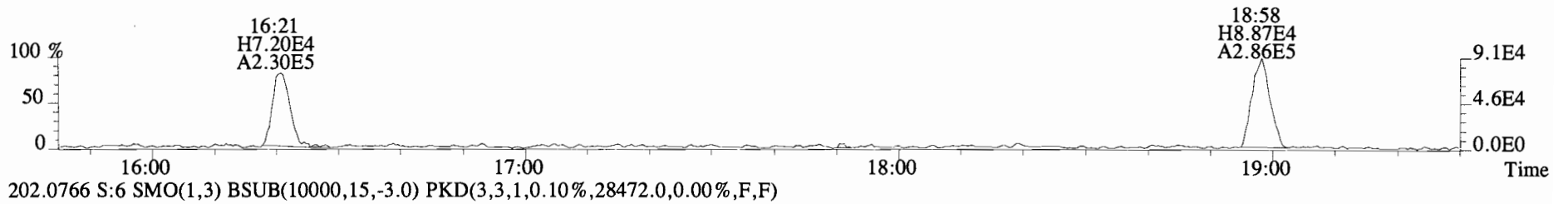
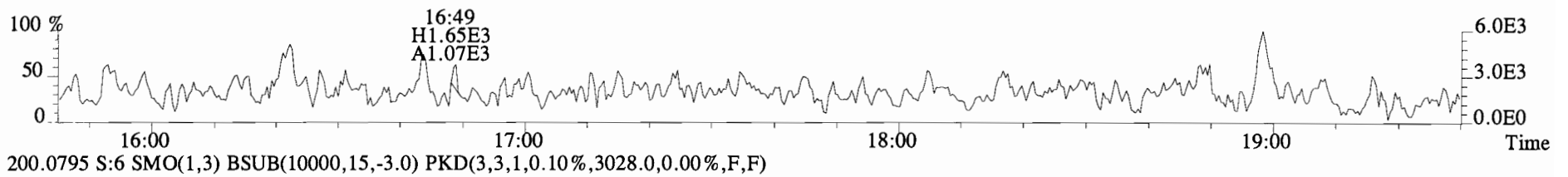
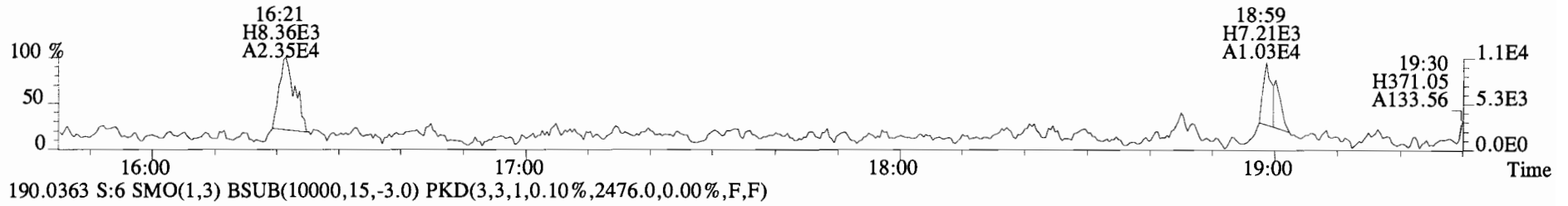
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	*	* n	0.87	NotFnd	*	0.620-0.626		*	*											
13C-PCB-3	*	* n	0.91	NotFnd	*	0.719-0.727		*	*		13C-PCB-79	*	* n	1.02	NotFnd	*	1.024-1.034		*	*
13C-PCB-4	2.81e+05	1.54 y	0.59	20:18	0.775	0.771-0.779		2870	86.0		13C-PCB-178	2.13e+05	0.46 y	0.61	45:54	0.984	0.980-0.990		4180	126
13C-PCB-9	3.95e+05	1.86 n	0.90	22:06	0.844	0.839-0.847		2640	79.2											
13C-PCB-11	4.60e+05	1.68 y	0.94	25:30	0.973	0.968-0.978		2930	88.1	PS vs. IS										
13C-PCB-19	*	* n	0.53	NotFnd	*	0.929-0.939		*	*		Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-28	*	* n	0.93	NotFnd	*	0.999-1.009		*	*		13C-PCB-79	2.07e+05	0.51 n	1.10	38:06	0.969	0.964-0.974		2960	88.8
13C-PCB-32	*	* n	0.80	NotFnd	*	1.041-1.051		*	*		13C-PCB-178	*	* n	0.90	NotFnd	*	0.920-0.930		*	*
13C-PCB-37	*	* n	0.84	NotFnd	*	1.131-1.143		*	*											
13C-PCB-47	1.41e+05	0.55 n	0.81	32:17	0.872	0.867-0.875		2390	71.6											
13C-PCB-52	1.59e+05	0.57 n	0.77	31:45	0.857	0.853-0.861		2840	85.3											
13C-PCB-54	1.68e+05	0.52 n	0.97	28:14	0.762	0.757-0.765		2380	71.4											
13C-PCB-70	1.93e+05	0.45 n	1.00	35:47	0.966	0.961-0.971		2660	79.8											
13C-PCB-77	2.21e+05	0.79 y	0.94	39:55	1.078	1.073-1.083		3220	96.8											
13C-PCB-80	2.92e+05	1.00 n	1.03	36:13	0.978	0.973-0.983		3900	117											
13C-PCB-81	2.11e+05	0.79 y	0.92	39:18	1.062	1.057-1.067		3150	94.7											
13C-PCB-95	2.74e+05	1.63 y	0.74	36:04	0.913	0.908-0.918		4100	123	RS										
13C-PCB-97	2.38e+05	1.69 y	0.70	39:04	0.989	0.984-0.994		3740	112		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	2.67e+05	1.49 y	0.78	37:46	0.956	0.951-0.961		3770	113		13C-PCB-15	5.56e+05	1.67 y	1.00	26:12	3330				
13C-PCB-104	2.63e+05	2.11 n	1.00	32:55	0.833	0.829-0.837		2900	87.2		13C-PCB-31	*	* n	1.00	NotFnd	*				
13C-PCB-105	1.90e+05	1.84 n	1.37	43:20	0.929	0.924-0.934		1670	50.2		13C-PCB-60	2.42e+05	0.82 y	1.00	37:02	3330				
13C-PCB-114	1.73e+05	1.76 y	1.36	42:29	0.911	0.906-0.916		1530	45.9		13C-PCB-111	3.01e+05	2.24 n	1.00	39:30	3330				
13C-PCB-118	3.11e+05	1.63 y	0.96	41:49	1.059	1.054-1.064		3590	108		13C-PCB-128	2.77e+05	1.07 y	1.00	46:38	3330				
13C-PCB-123	2.50e+05	1.34 y	0.89	41:38	1.054	1.049-1.059		3090	92.9		13C-PCB-205	1.42e+05	0.99 y	1.00	54:24	3330				
13C-PCB-126	1.41e+05	1.77 y	1.31	45:36	0.978	0.972-0.982		1290	38.9											
13C-PCB-127	1.03e+05	2.19 n	1.47	43:41	0.937	0.931-0.941		842	25.3											
13C-PCB-138	3.02e+05	1.13 y	1.10	45:05	0.967	0.961-0.971		3300	99.1											
13C-PCB-141	2.24e+05	1.15 y	1.07	44:14	0.949	0.943-0.953		2500	75.2											
13C-PCB-153	2.39e+05	1.36 y	1.15	43:30	0.933	0.927-0.937		2510	75.3											
13C-PCB-155	2.32e+05	1.45 n	0.84	37:18	0.944	0.939-0.949		3060	91.8											
13C-PCB-156	*	* n	1.30	NotFnd	*	1.032-1.042		*	*											
13C-PCB-157	*	* n	1.36	NotFnd	*	1.037-1.047		*	*											
13C-PCB-159	*	* n	1.25	NotFnd	*	0.989-0.999		*	*											
13C-PCB-167	3.36e+05	1.31 y	1.35	47:04	1.009	1.004-1.014		3000	89.9	*										
13C-PCB-169	1.77e+05	1.20 y	1.29	50:46	1.089	1.084-1.094		1660	49.8											
13C-PCB-170	8.74e+04	0.61 n	0.54	51:06	1.096	1.093-1.103		1940	58.2											
13C-PCB-180	2.10e+05	0.52 y	0.68	49:40	1.065	1.059-1.069		3690	111											
13C-PCB-188	2.56e+05	0.55 n	0.92	43:07	0.925	0.920-0.930		3360	101											
13C-PCB-189	1.24e+05	0.46 y	0.72	52:35	1.128	1.125-1.137		2080	62.4	*										
13C-PCB-194	1.02e+05	0.80 y	0.80	54:07	0.995	0.990-1.000		2990	89.8	*										
13C-PCB-202	1.40e+05	1.18 n	0.84	48:34	1.041	1.036-1.046		2010	60.4											
13C-PCB-206	3.61e+04	0.52 n	0.65	55:47	1.026	1.019-1.029		1300	39.1											
13C-PCB-208	1.13e+05	0.80 y	1.08	53:21	0.981	0.977-0.987		2450	73.7											
13C-PCB-209	7.97e+04	0.92 n	0.61	57:11	1.051	1.044-1.054		3060	91.8											

Analyst: DMS

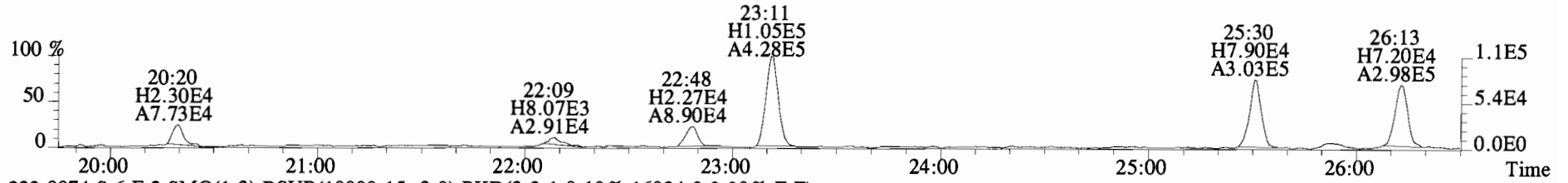
Date: 9/23/14

*\* - used only*

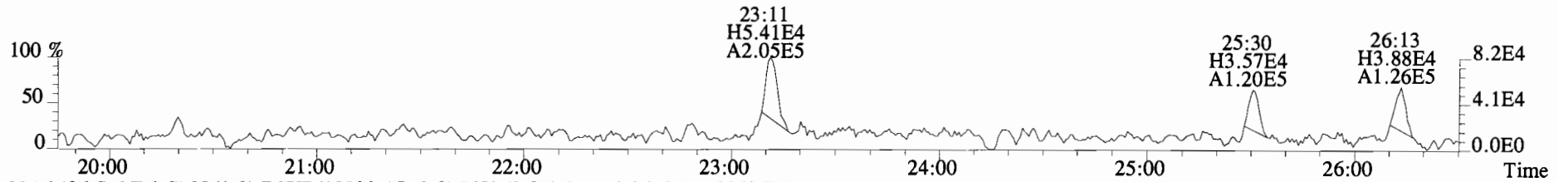
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



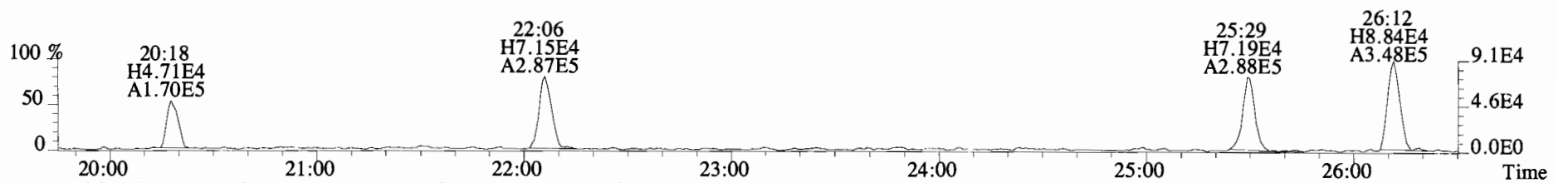
File:140922E1 #1-758 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2280.0,0.00%,F,F)



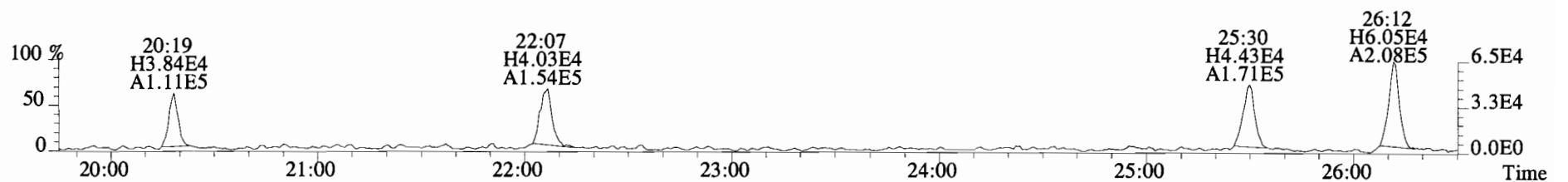
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16024.0,0.00%,F,F)



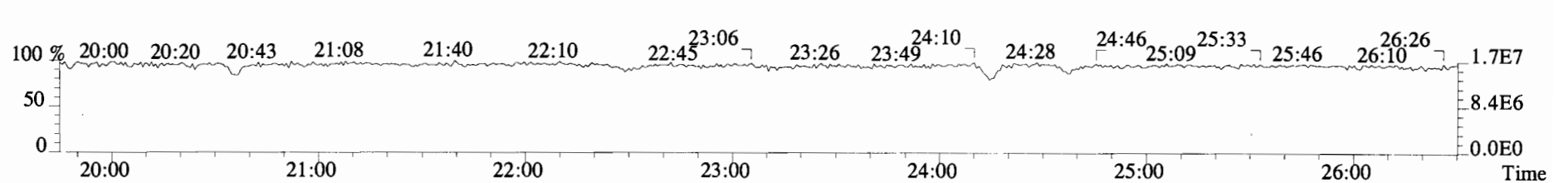
234.0406 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2652.0,0.00%,F,F)



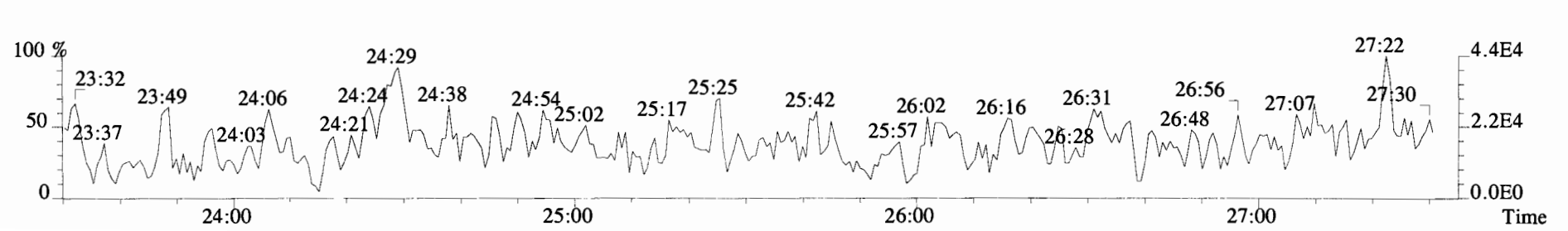
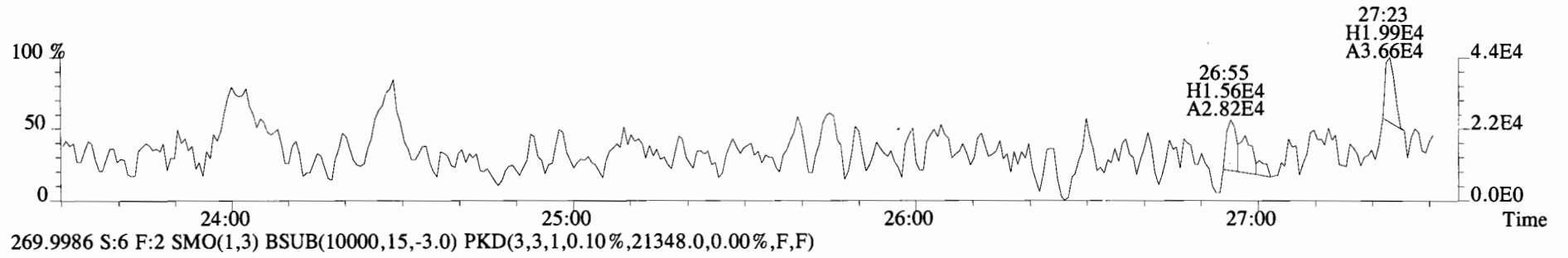
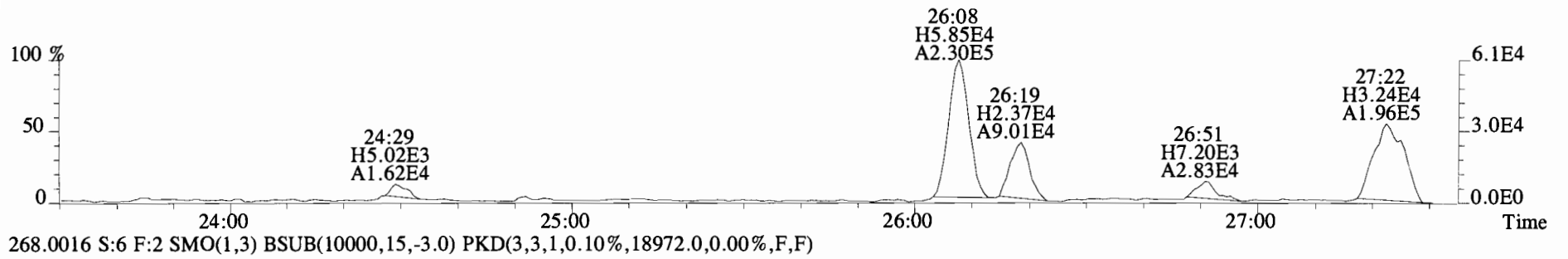
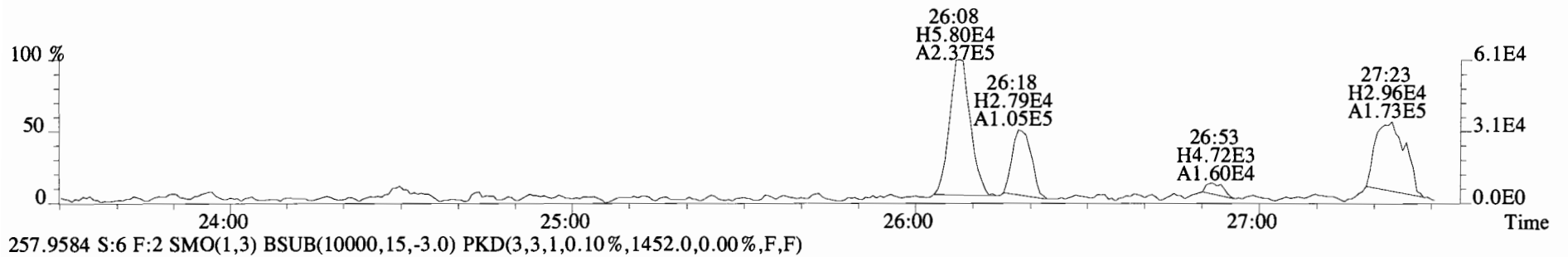
236.0376 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2988.0,0.00%,F,F)



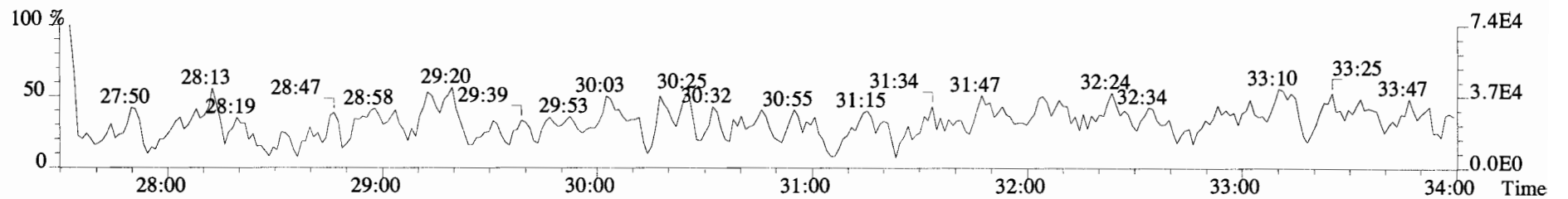
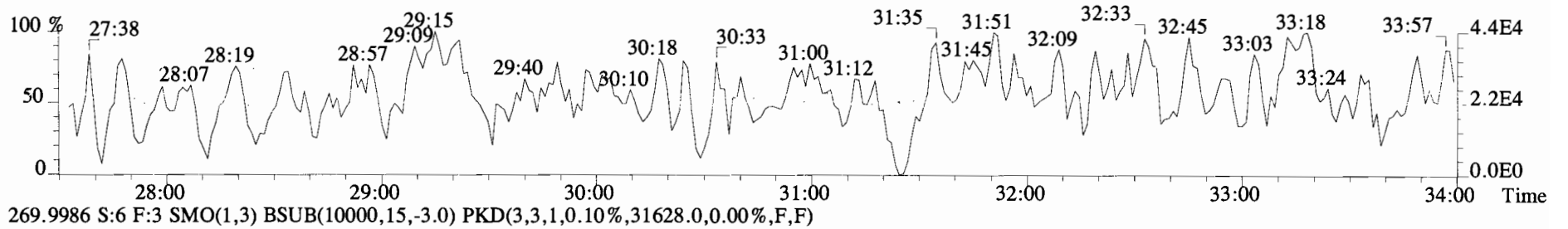
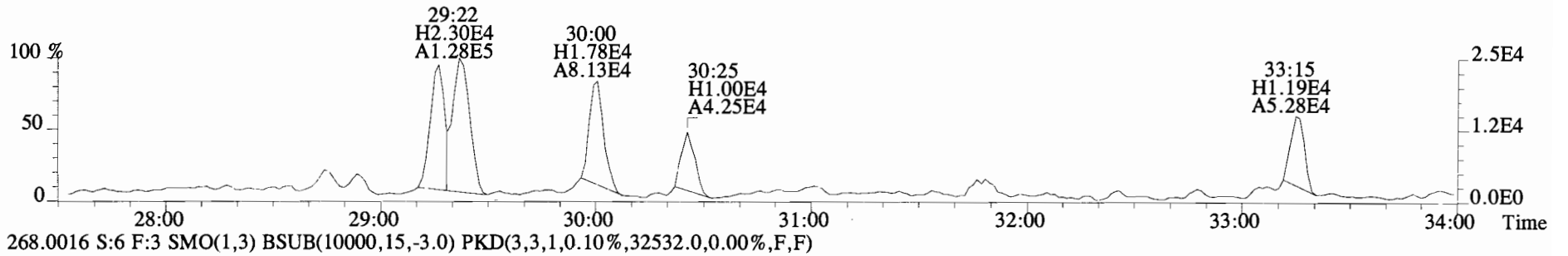
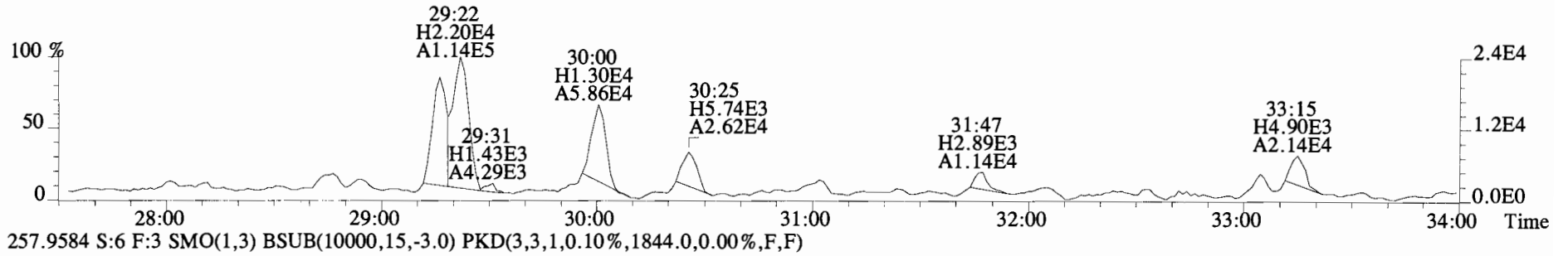
230.9856 S:6 F:2



File:140922E1 #1-758 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
 255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3000.0,0.00%,F,F)

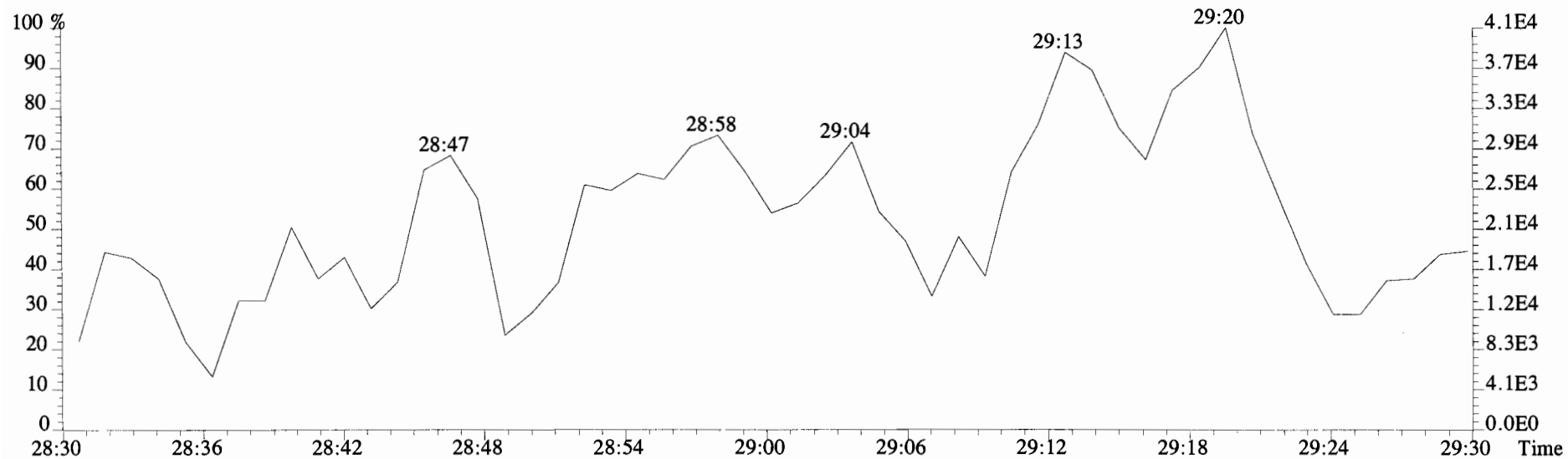
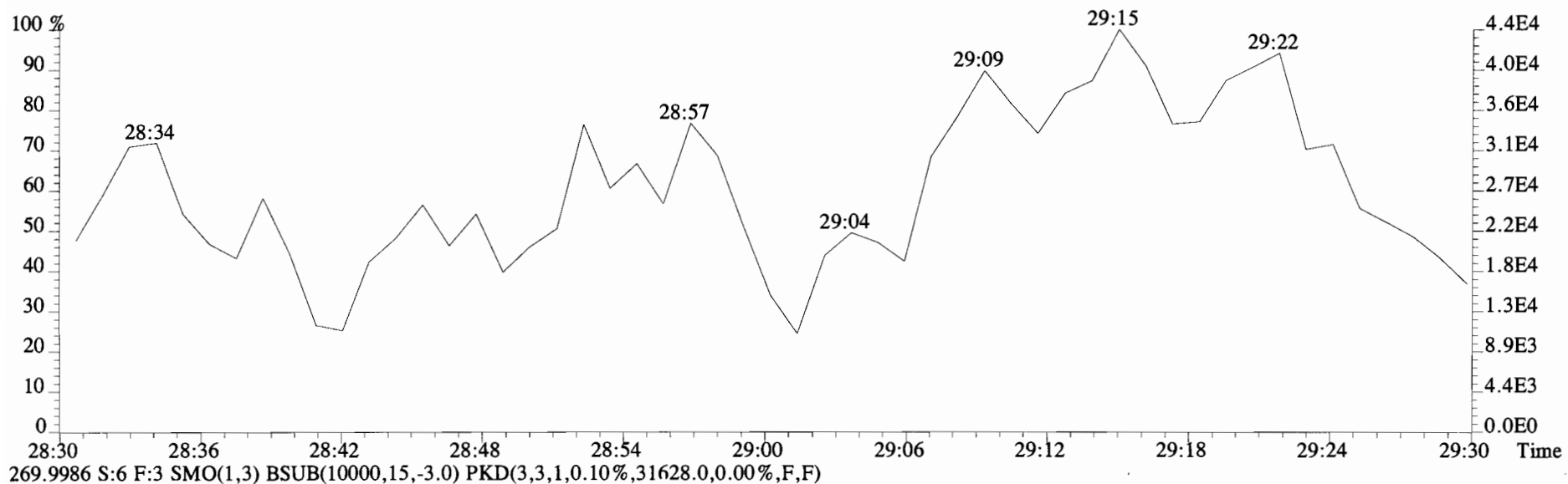


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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)

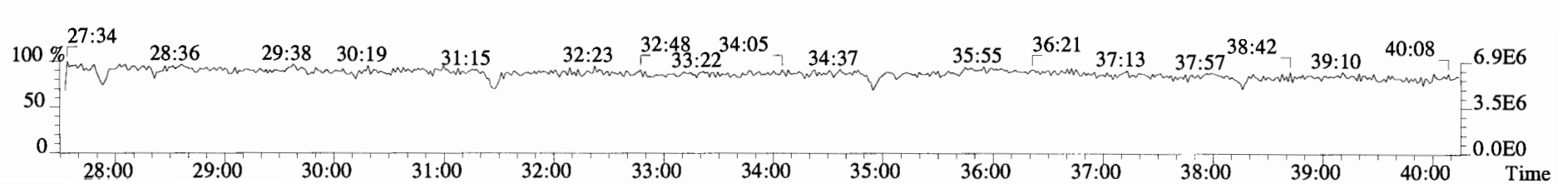
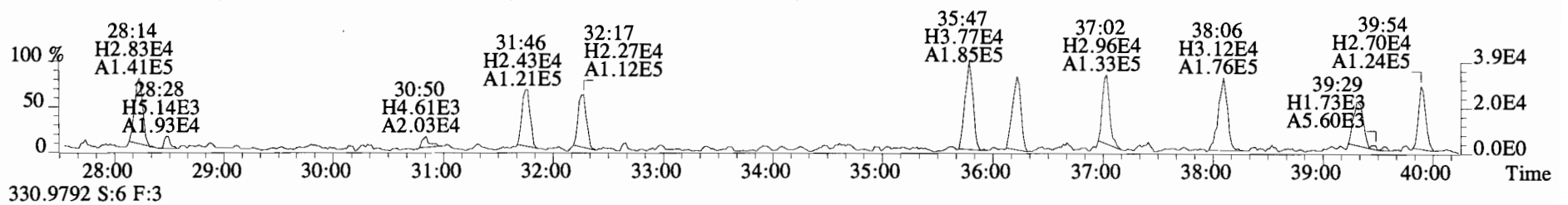
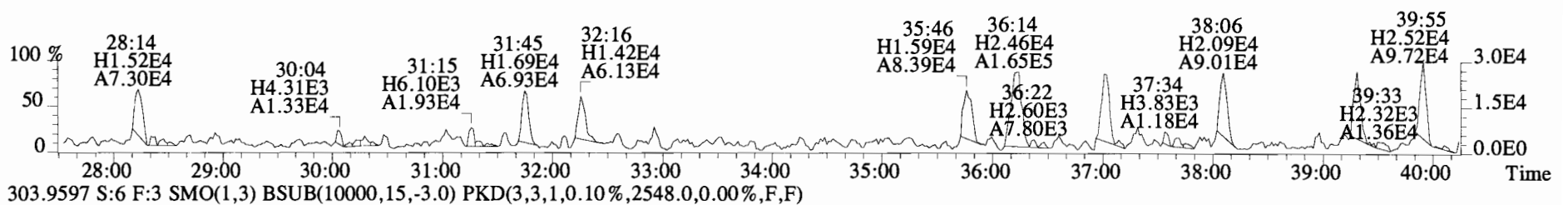
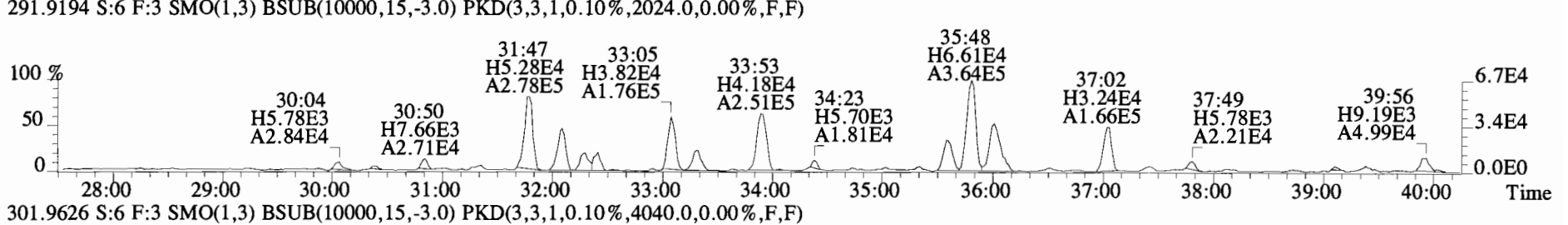
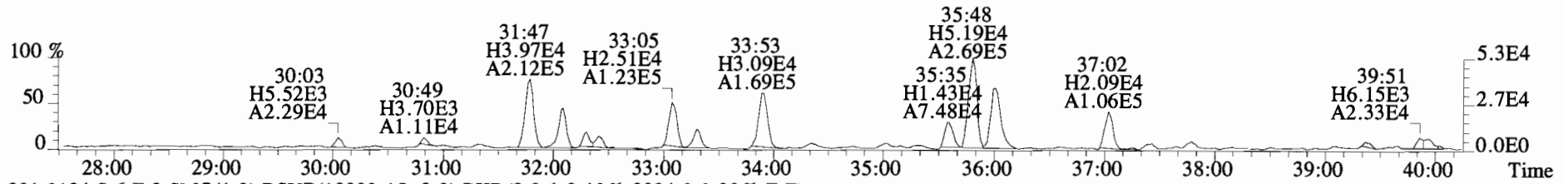




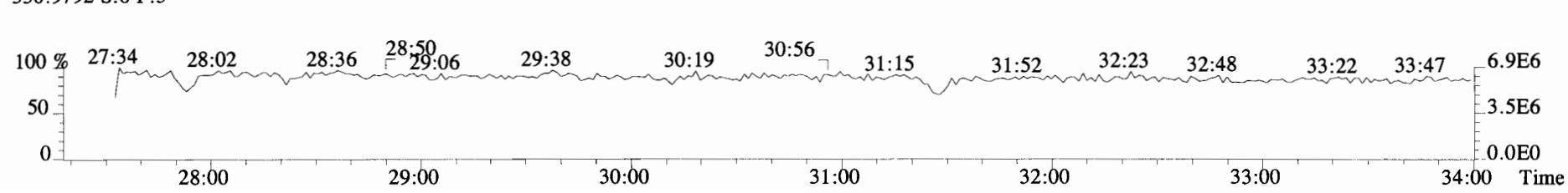
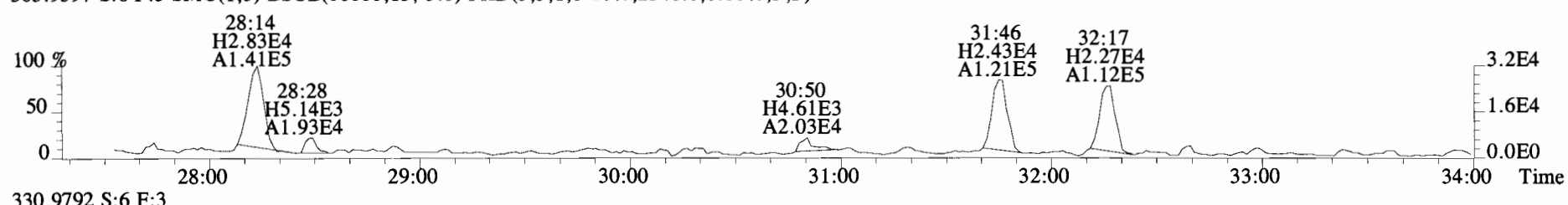
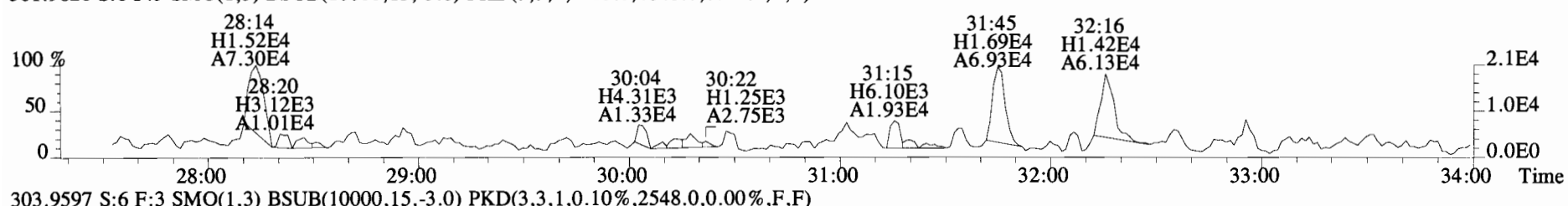
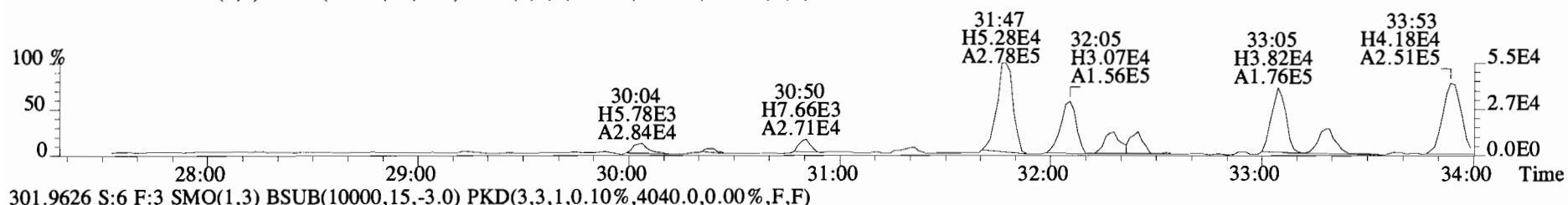
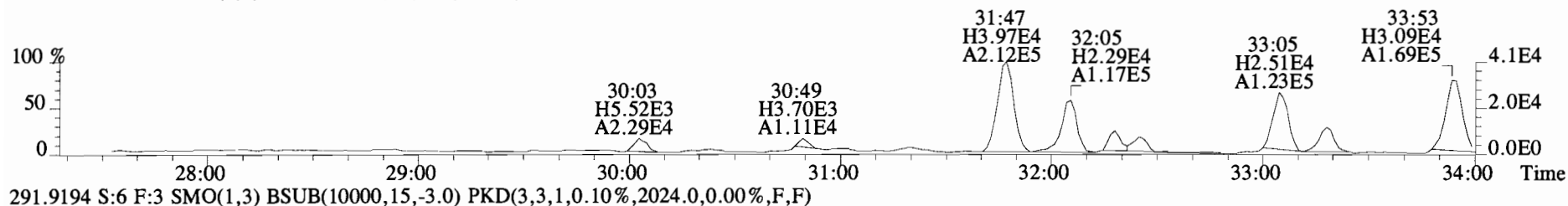
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268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32532.0,0.00%,F,F)



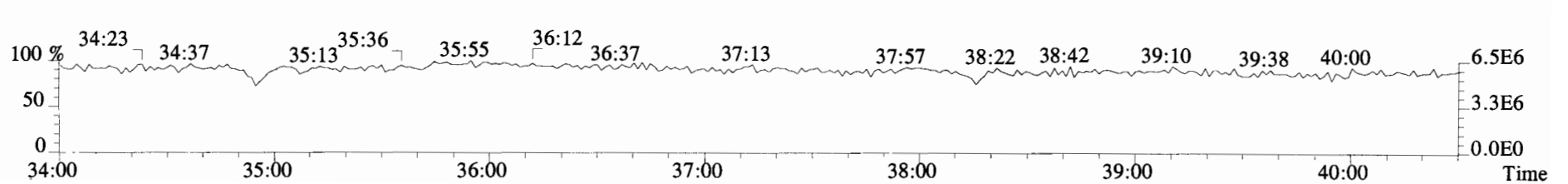
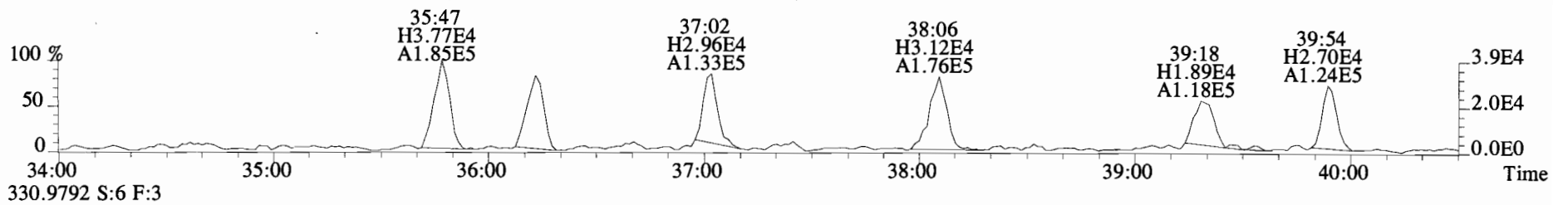
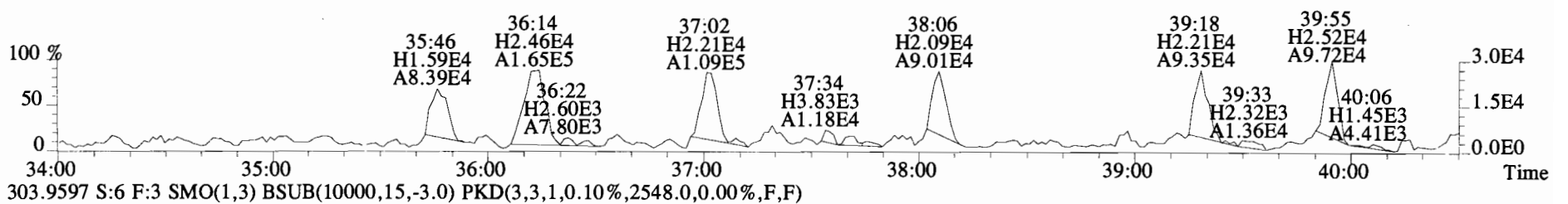
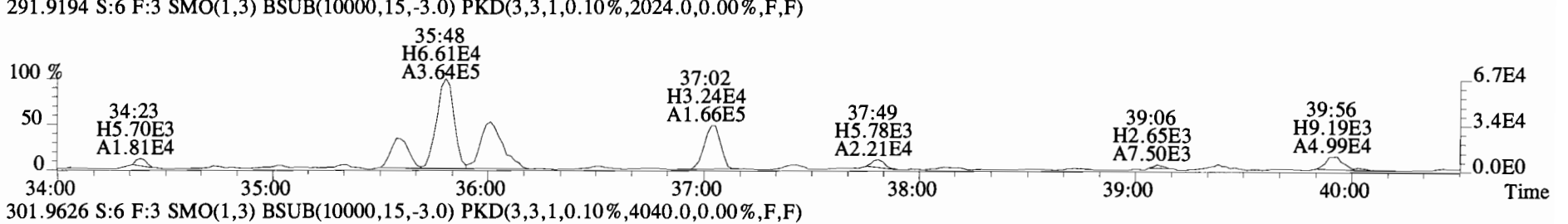
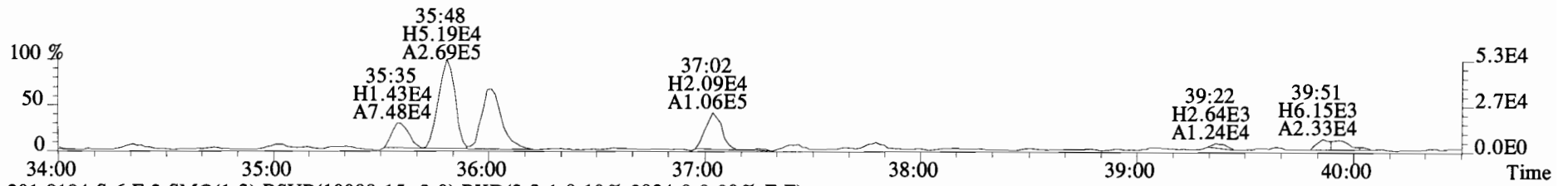
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



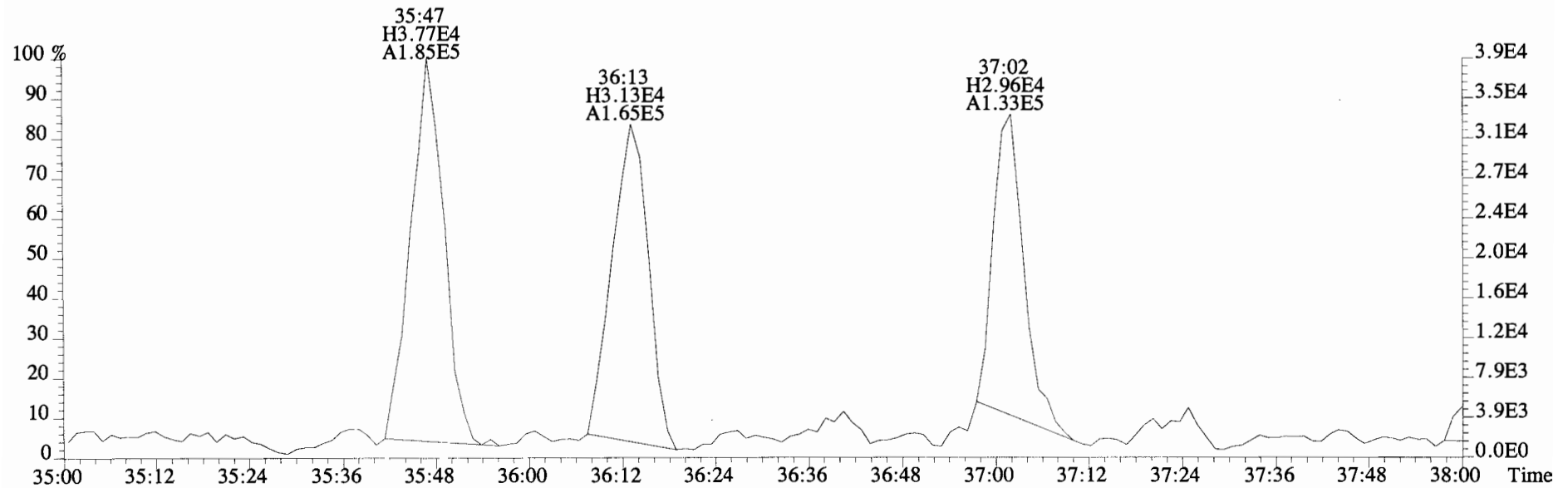
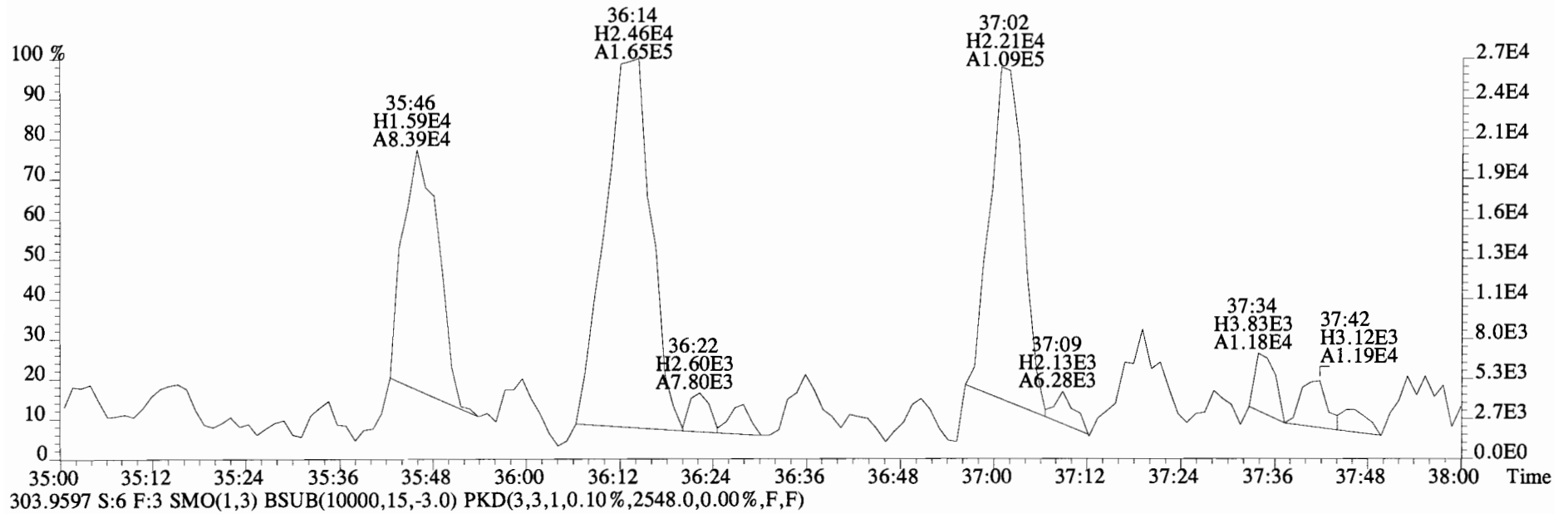
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
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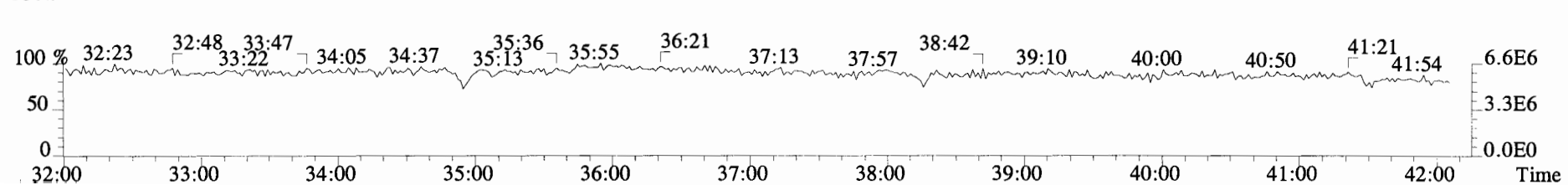
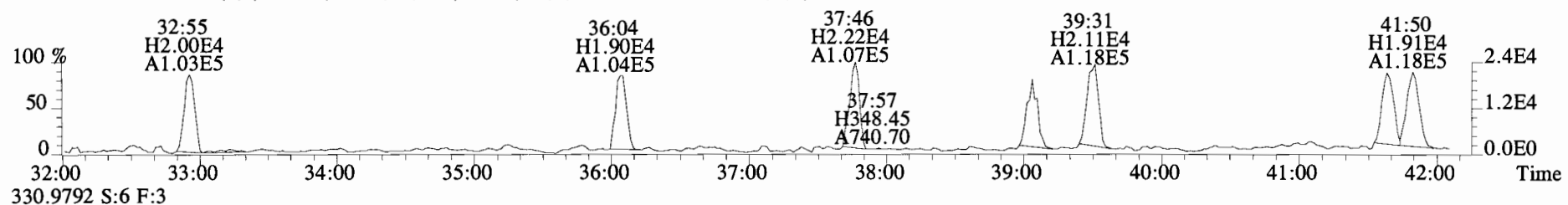
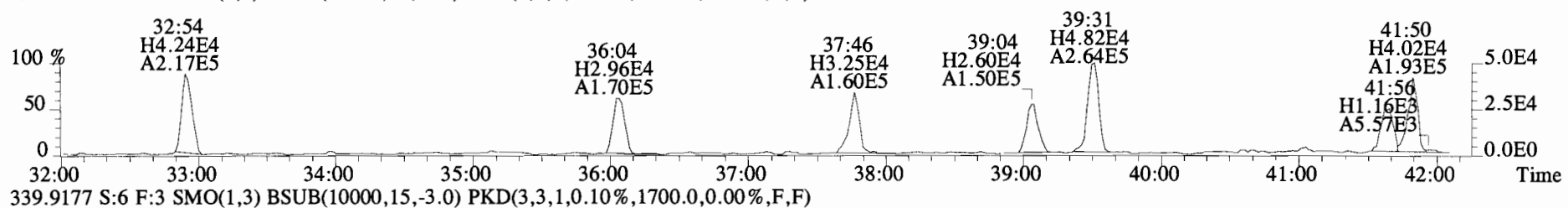
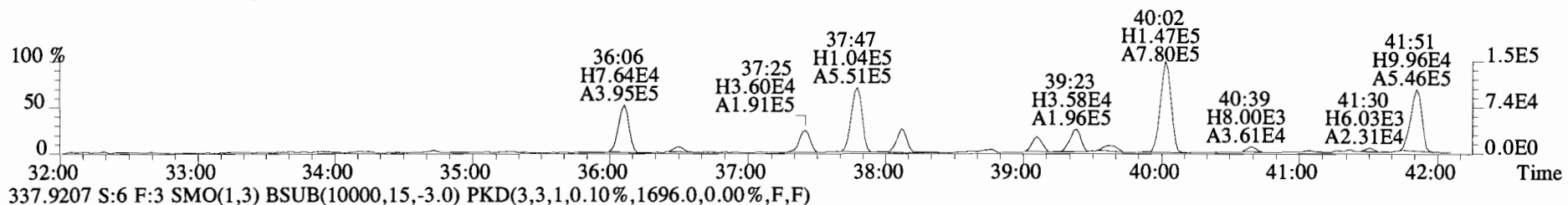
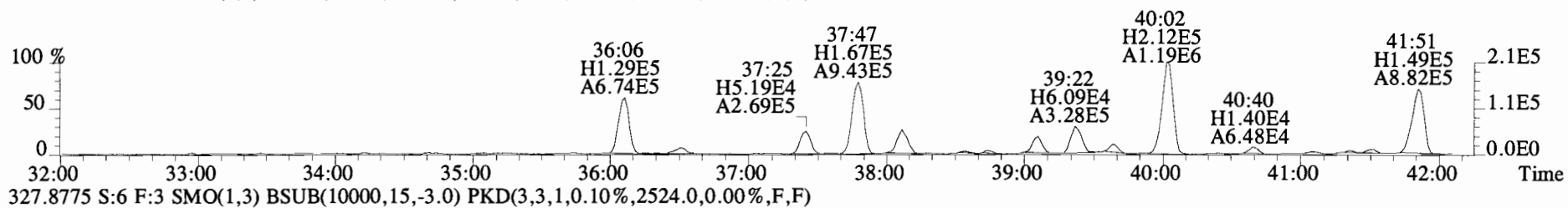
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



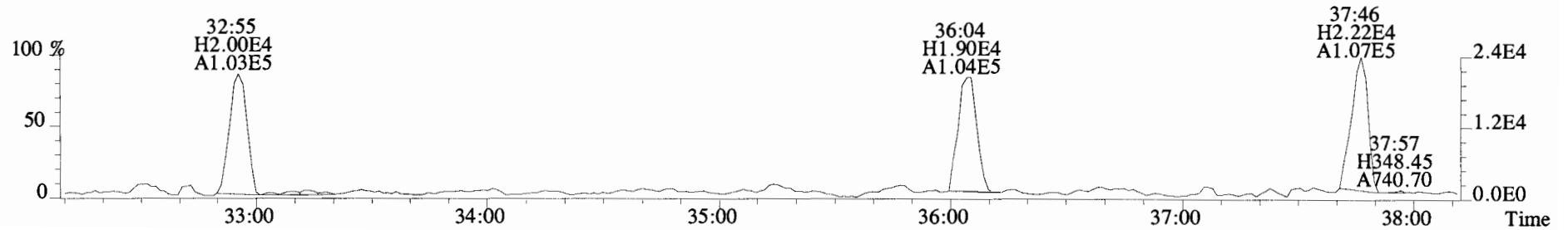
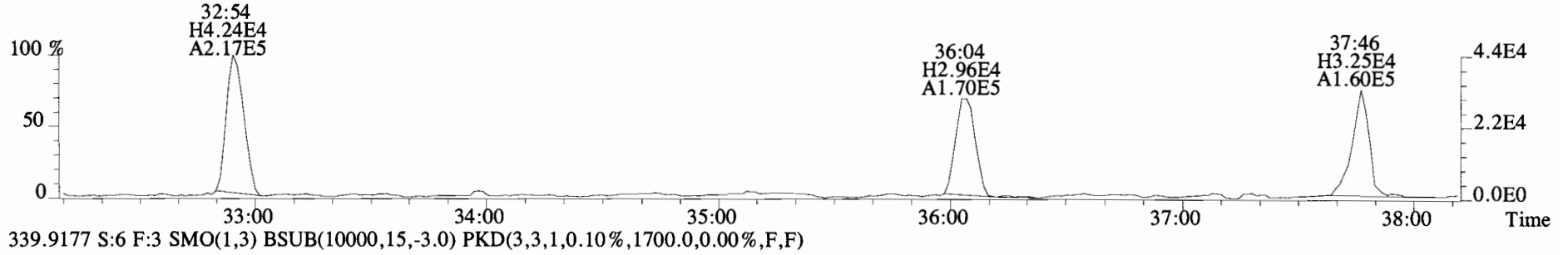
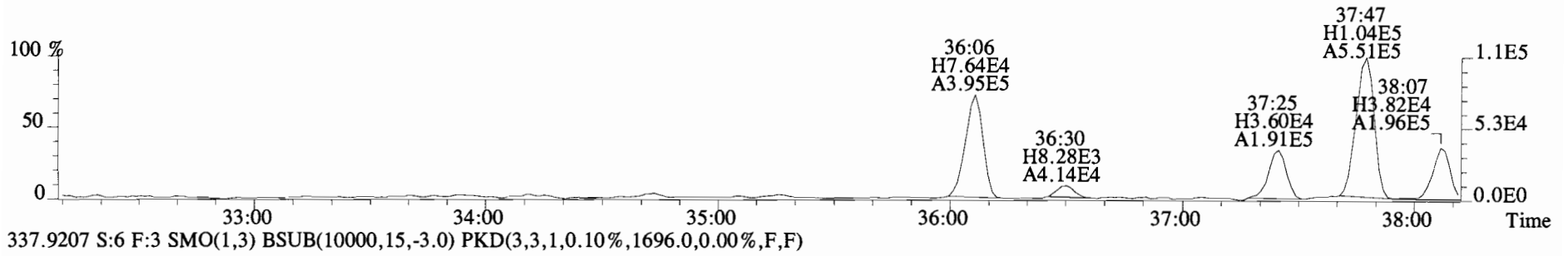
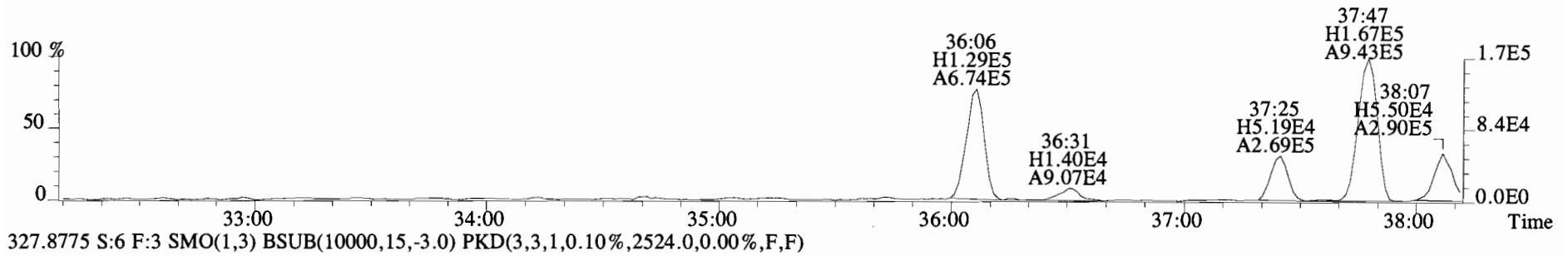
File:140922E1 #1-769 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
 301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)



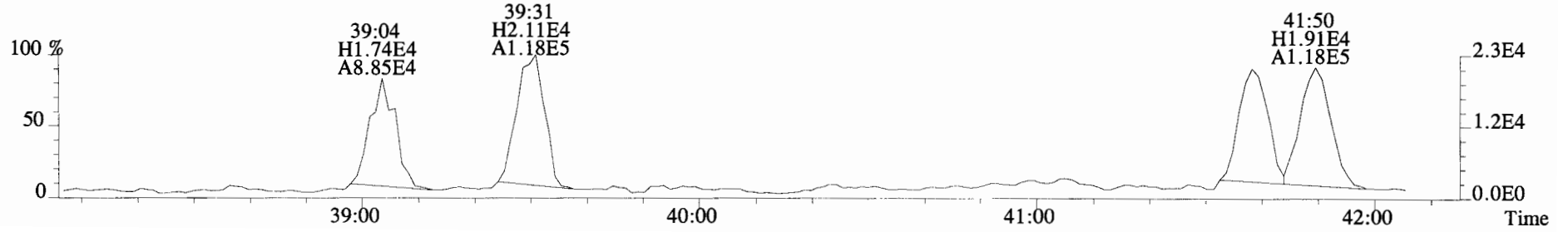
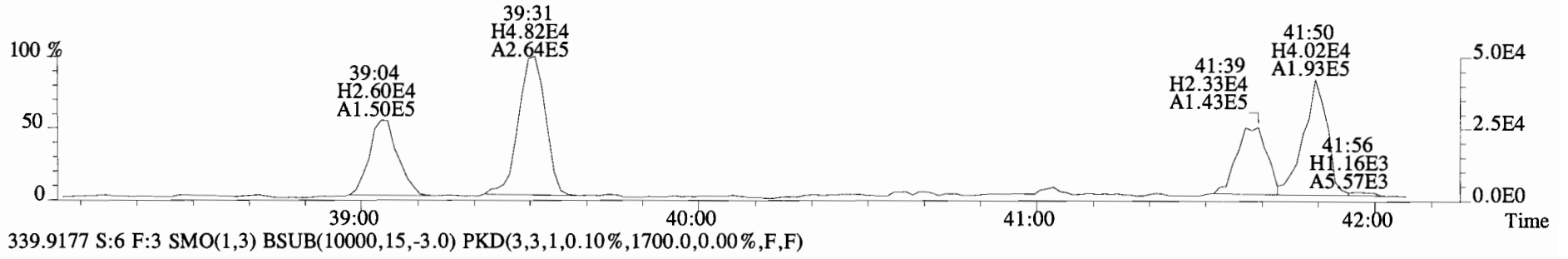
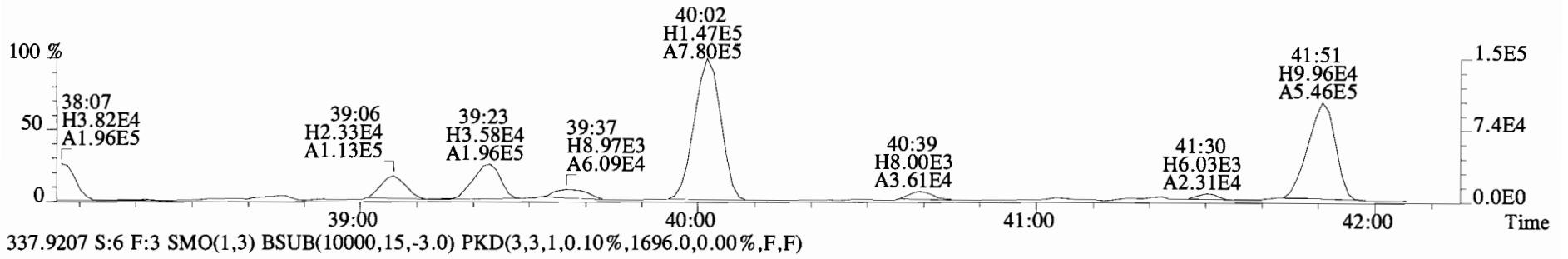
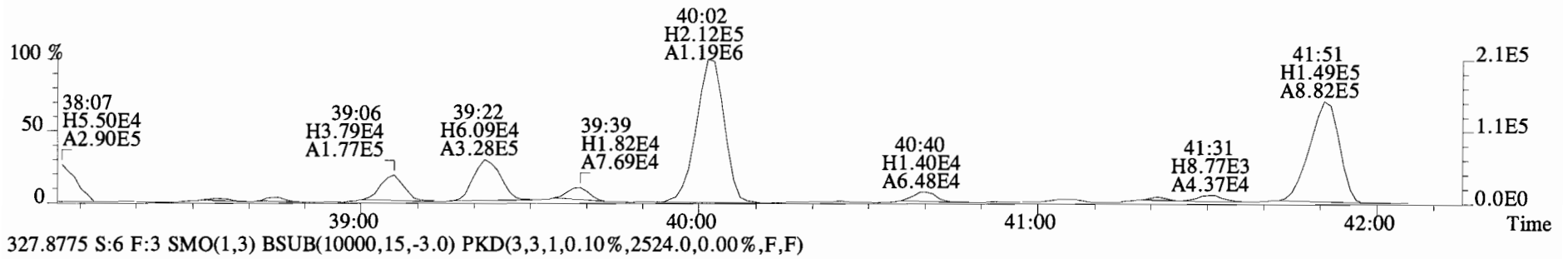
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2616.0,0.00%,F,F)



File:140922E1 #1-769 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
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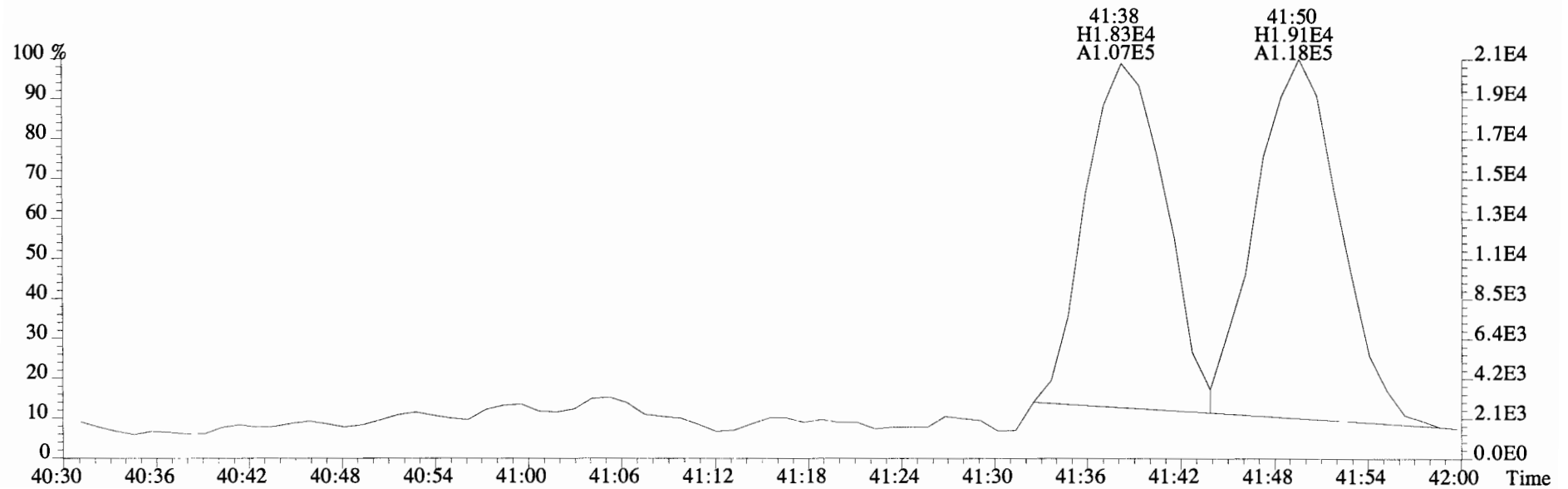
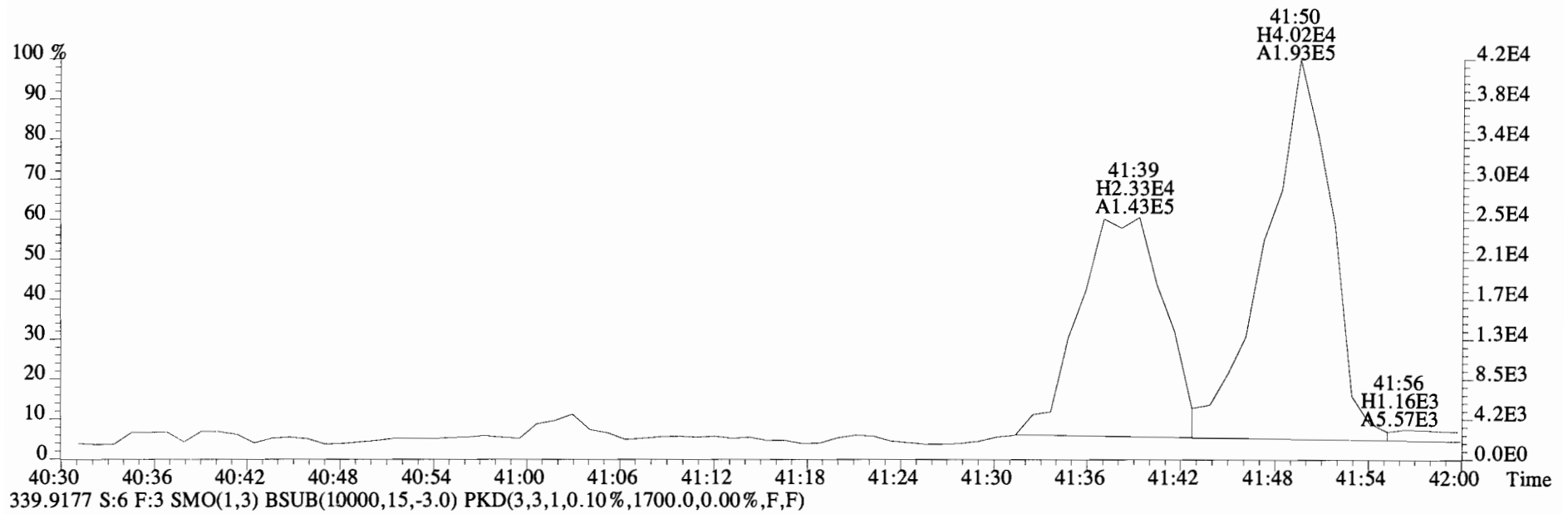


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 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2616.0,0.00%,F,F)

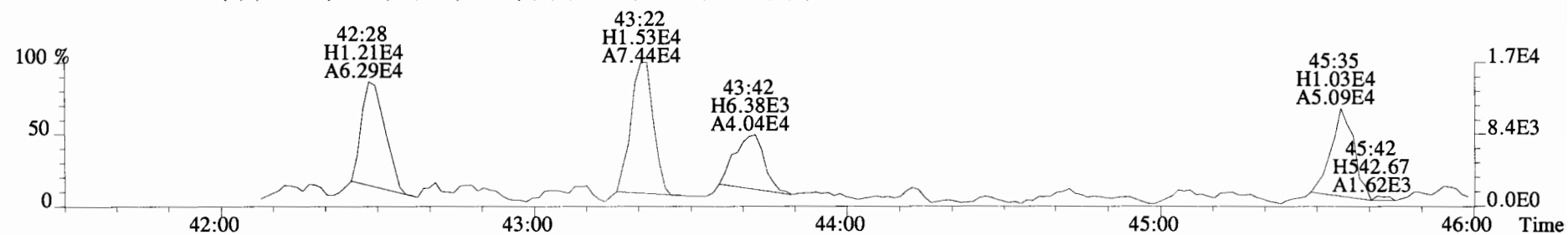
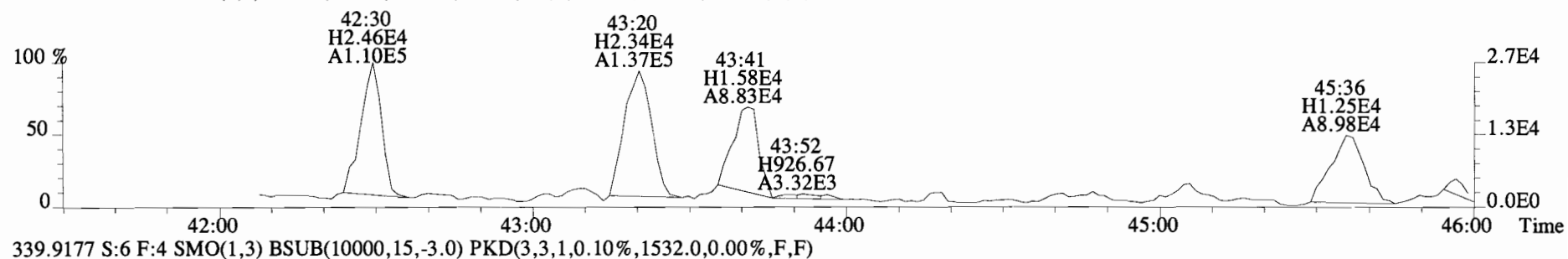
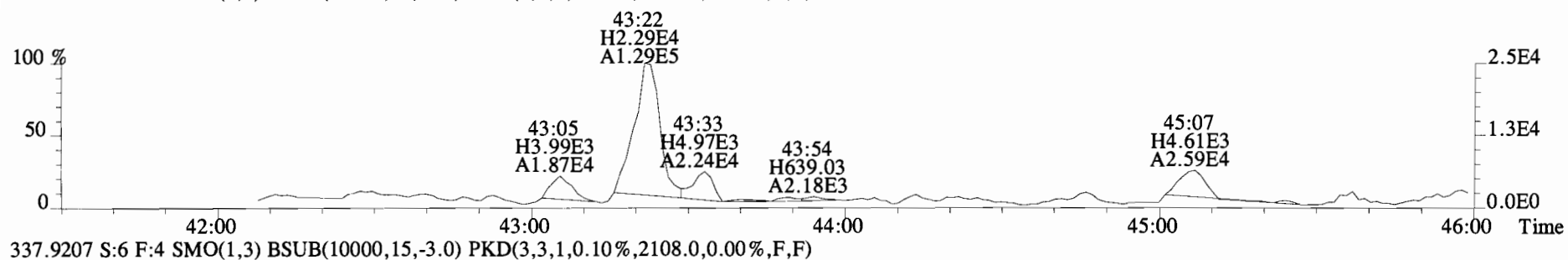
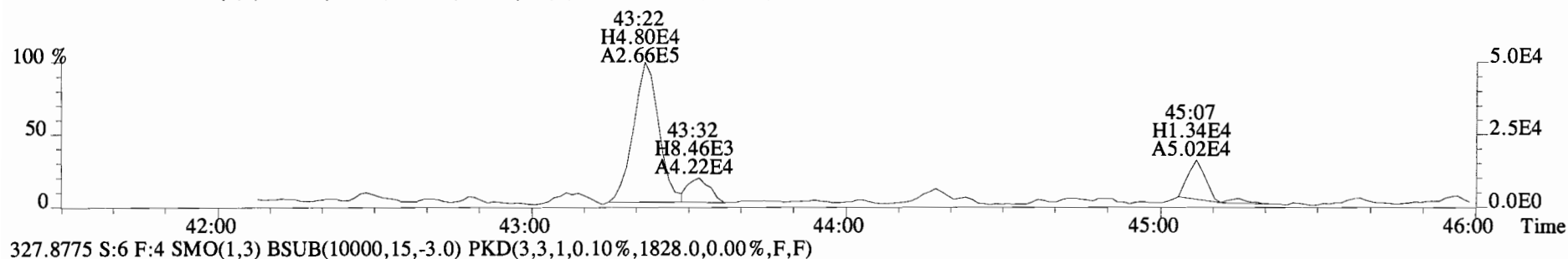




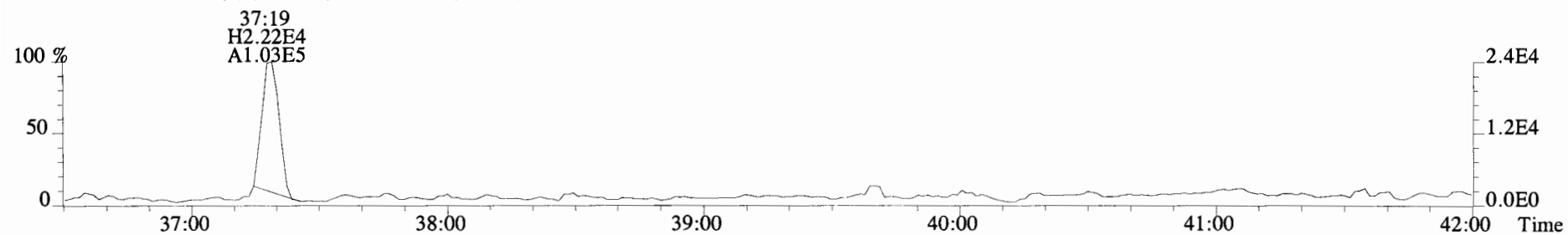
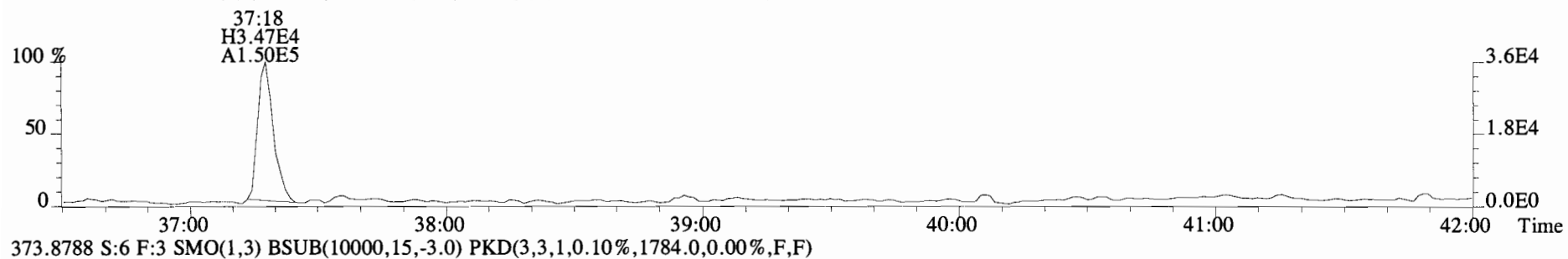
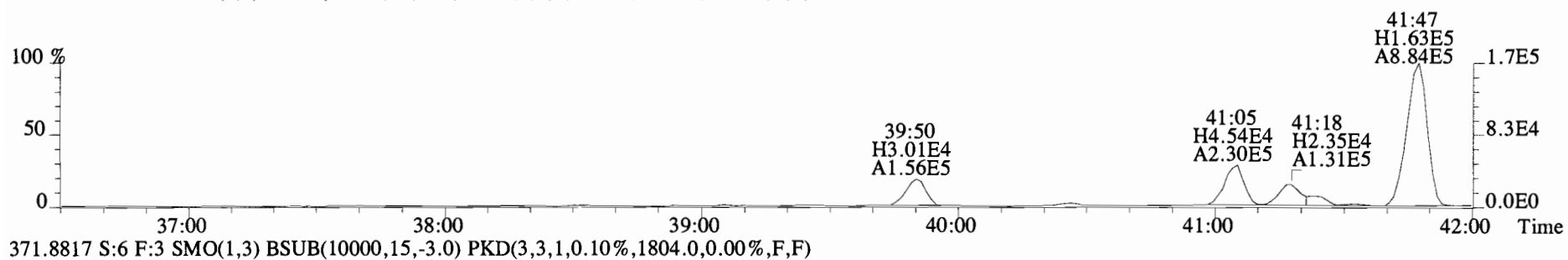
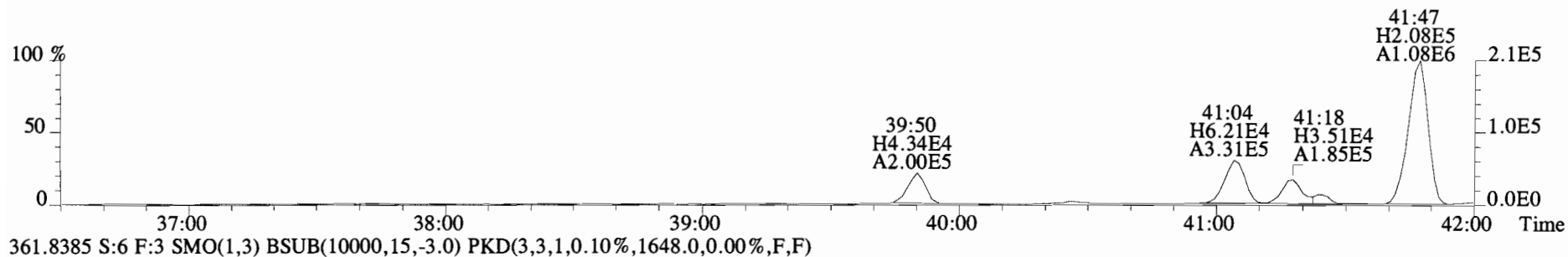
File:140922E1 #1-769 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1696.0,0.00%,F,F)



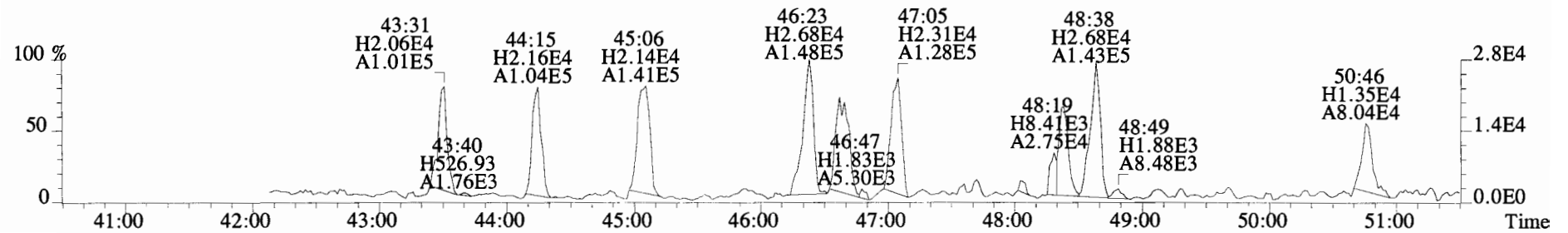
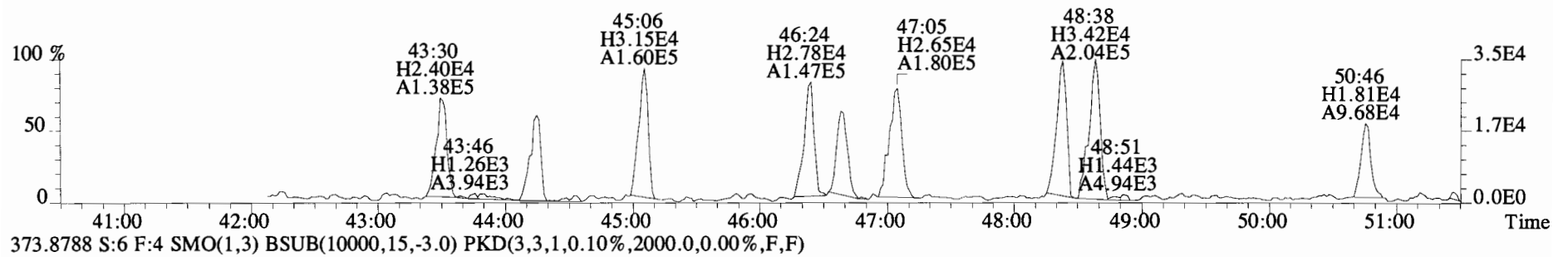
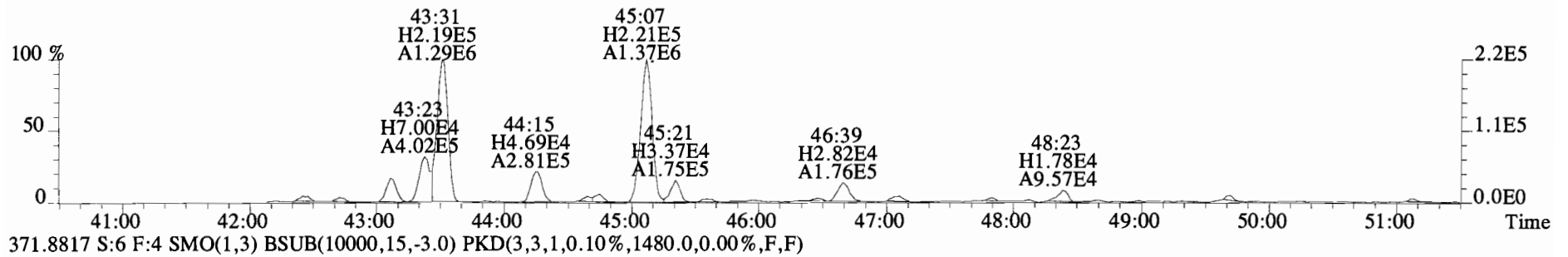
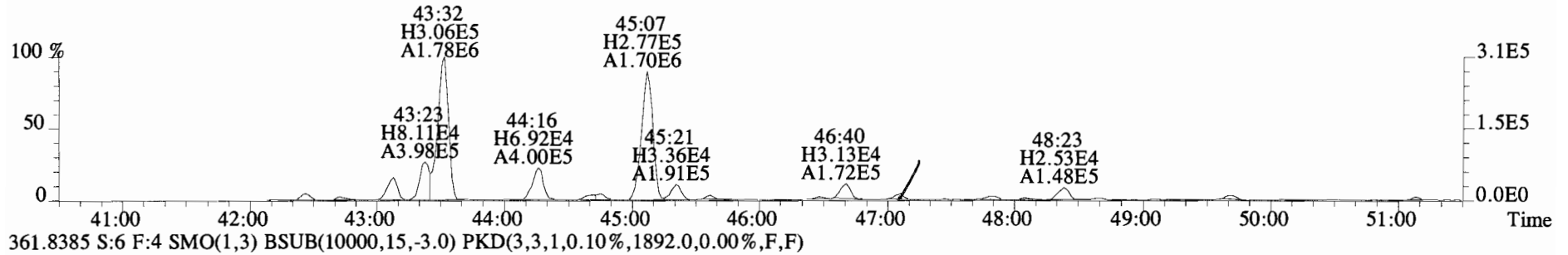
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2496.0,0.00%,F,F)



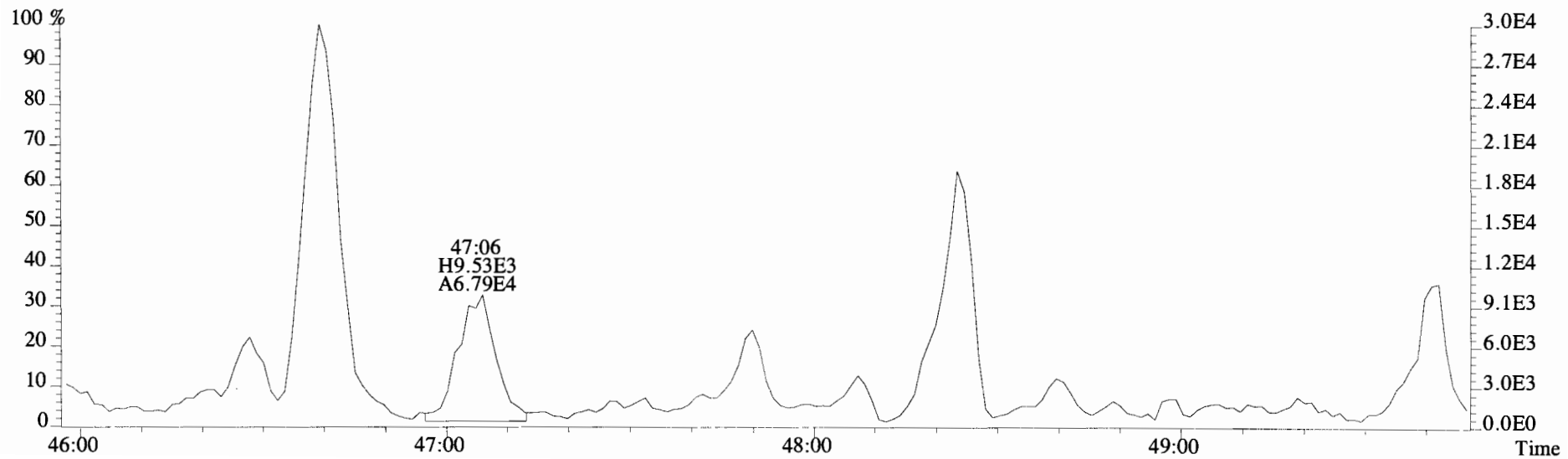
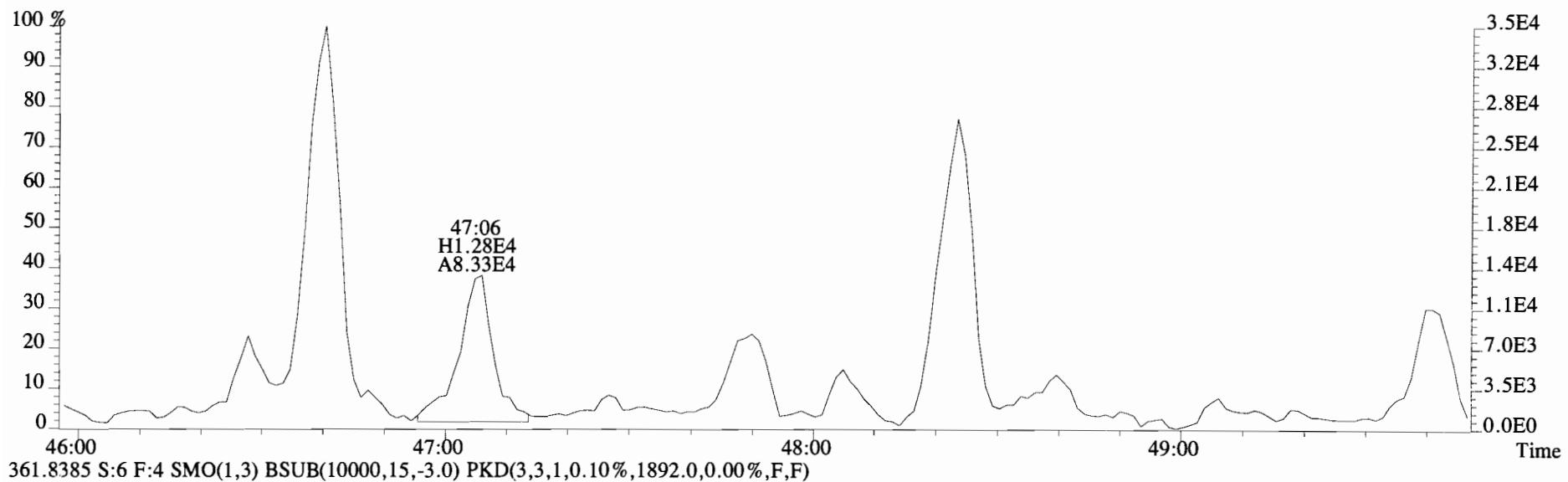
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)



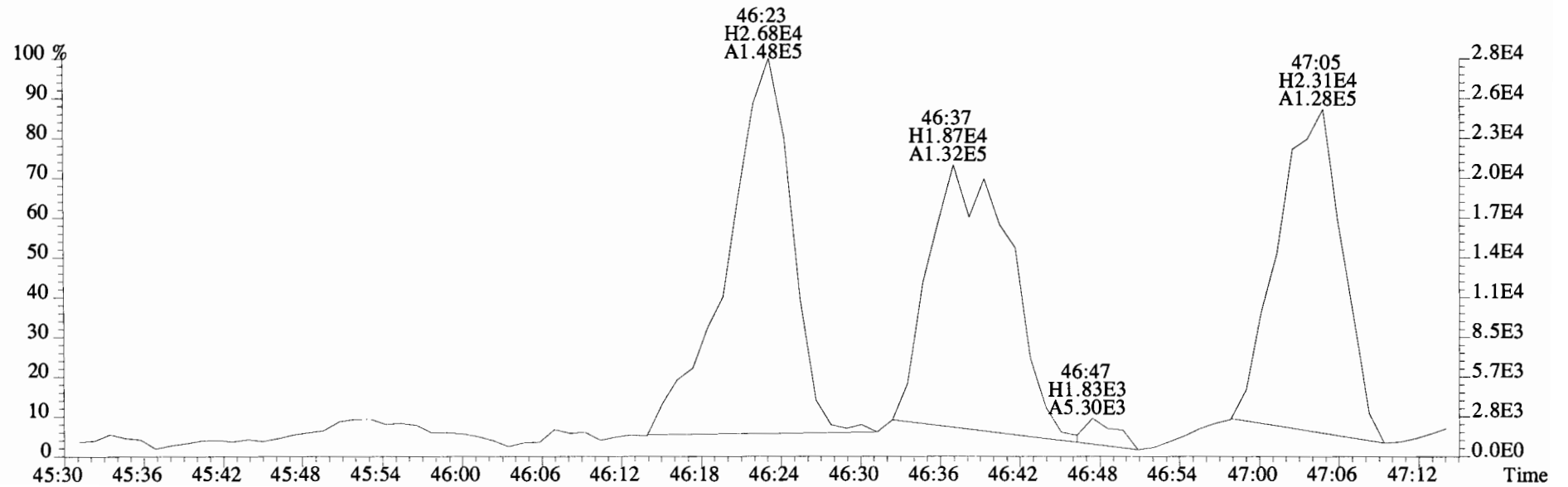
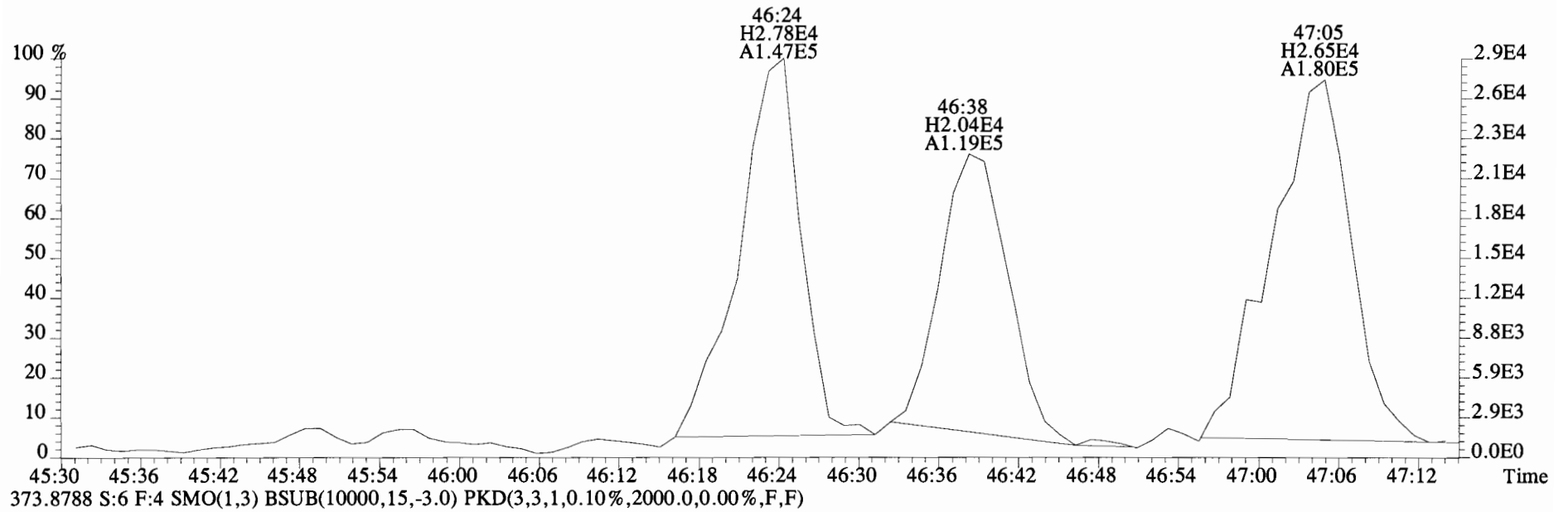
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2004.0,0.00%,F,F)



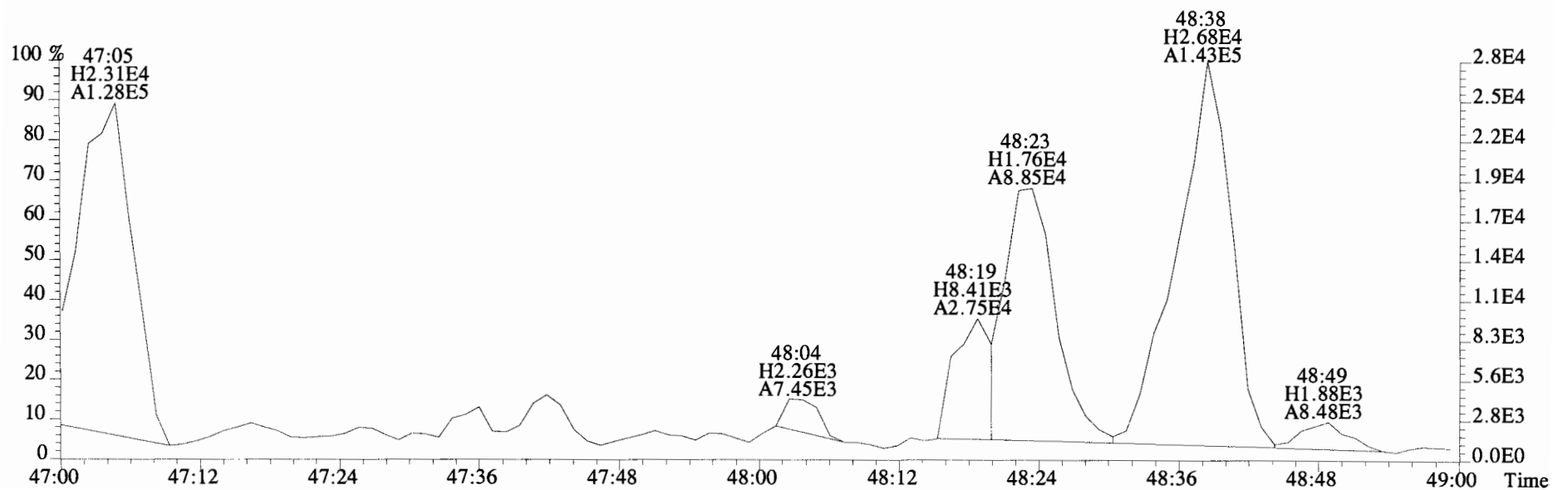
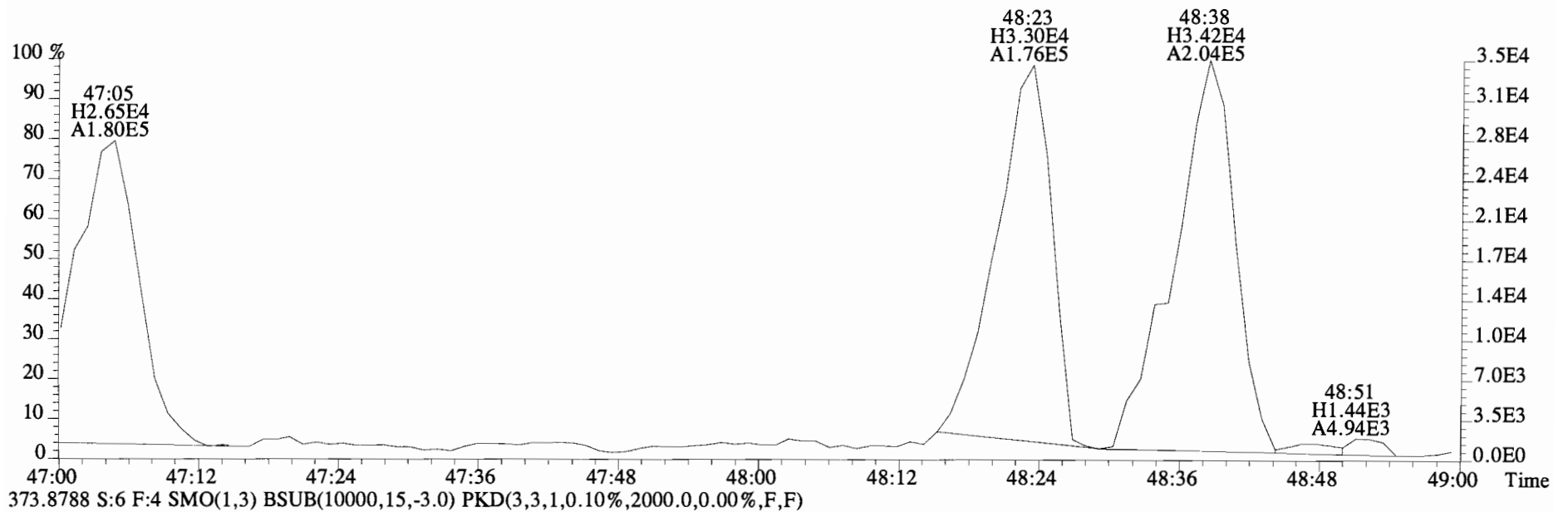
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359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2004.0,0.00%,F,F)



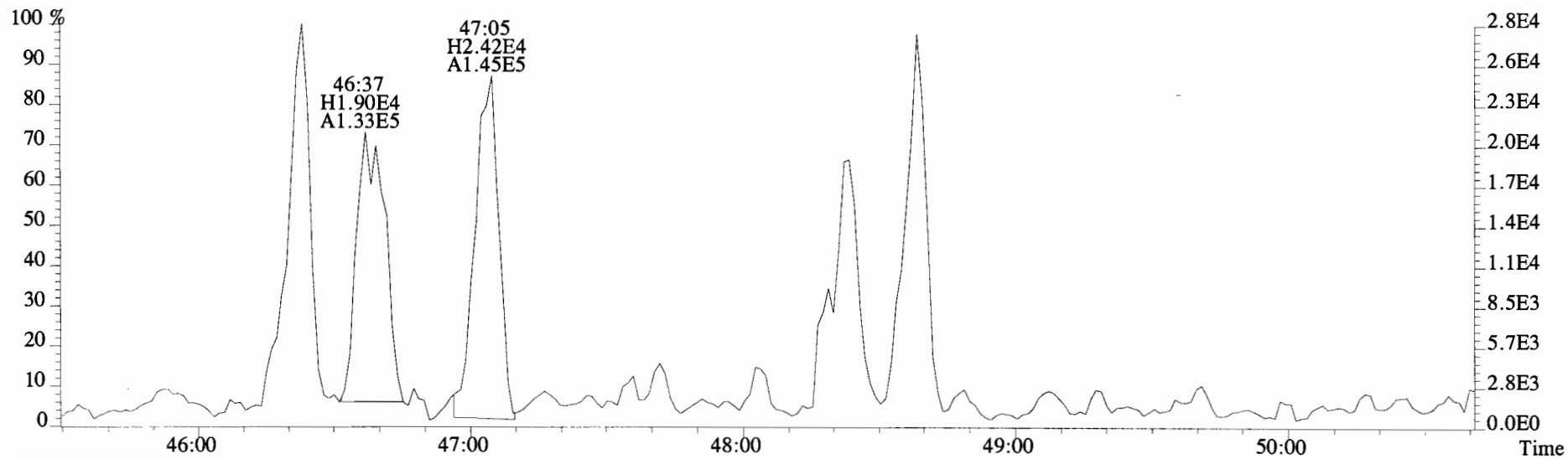
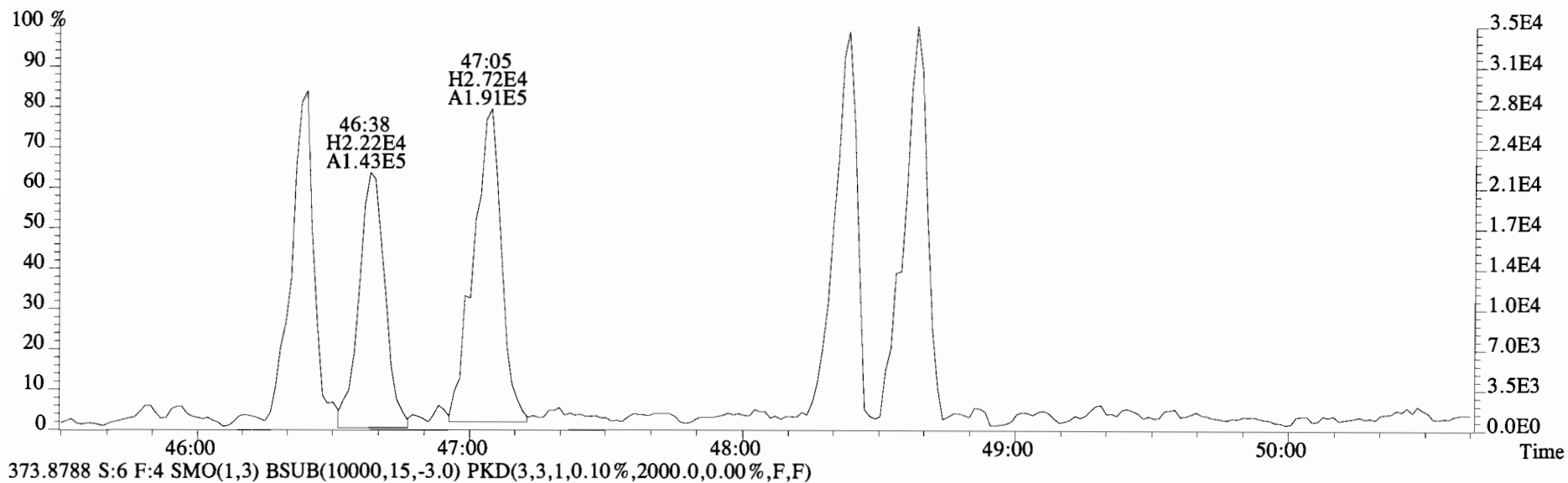
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1480.0,0.00%,F,F)



File:140922E1 #1-549 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
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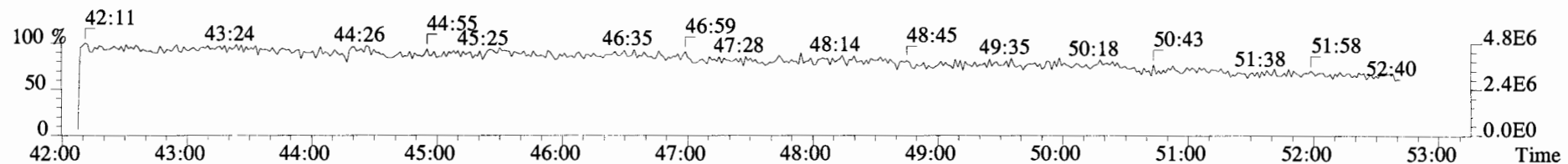
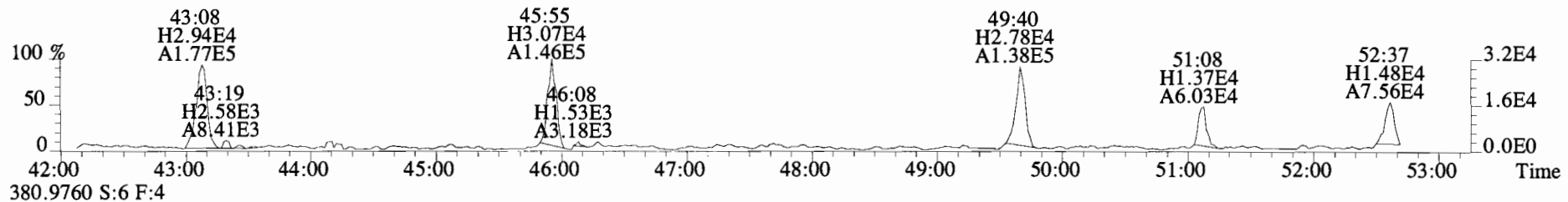
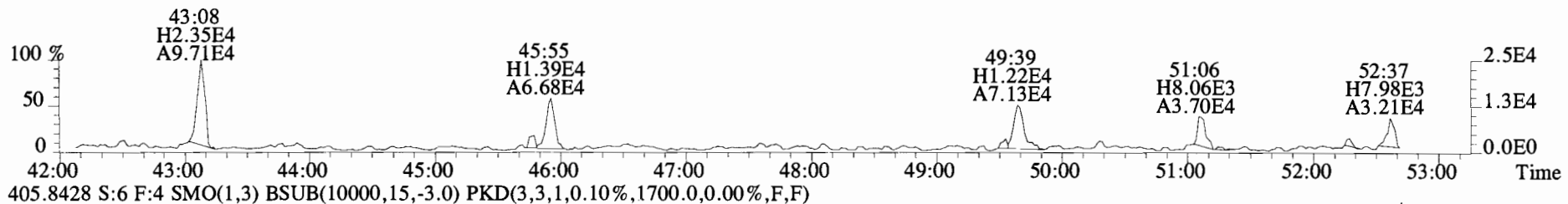
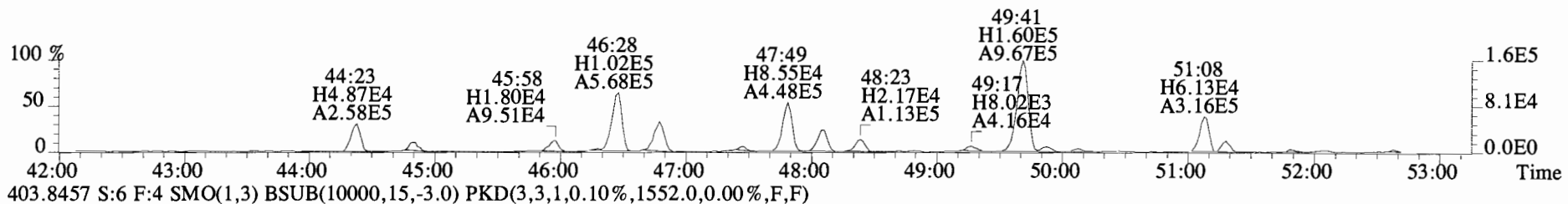
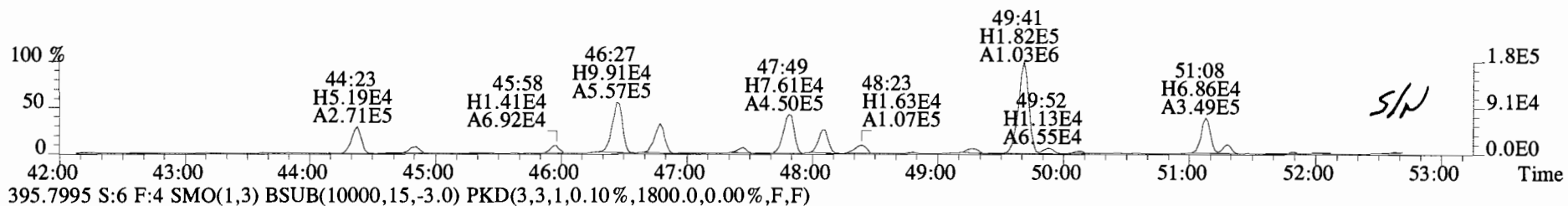


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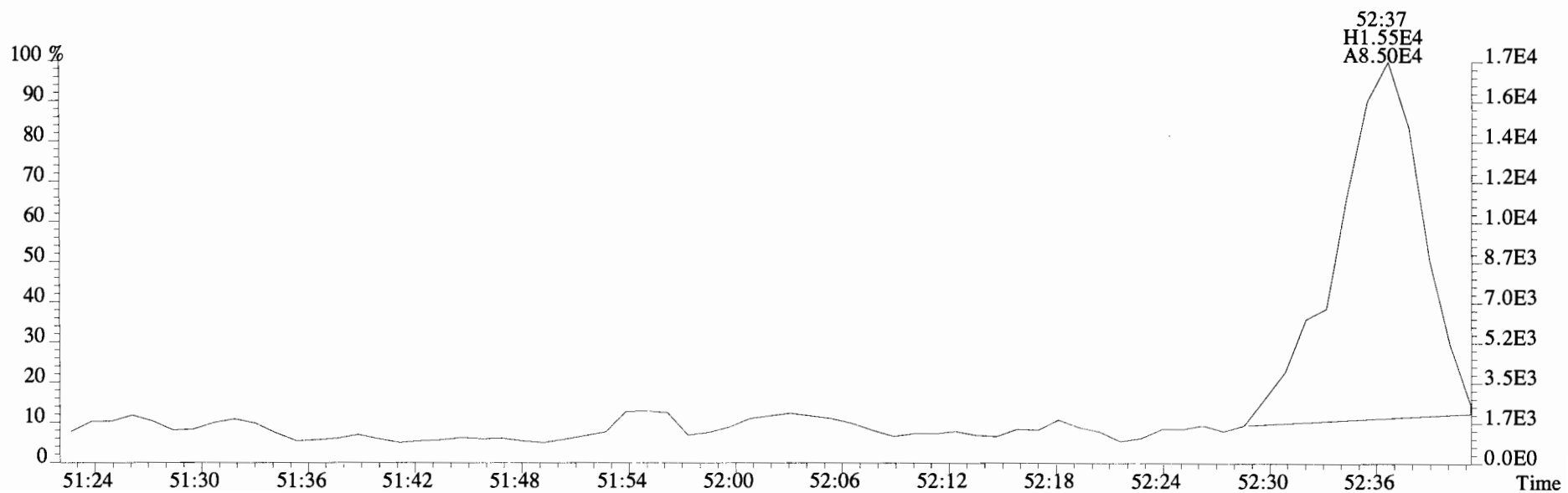
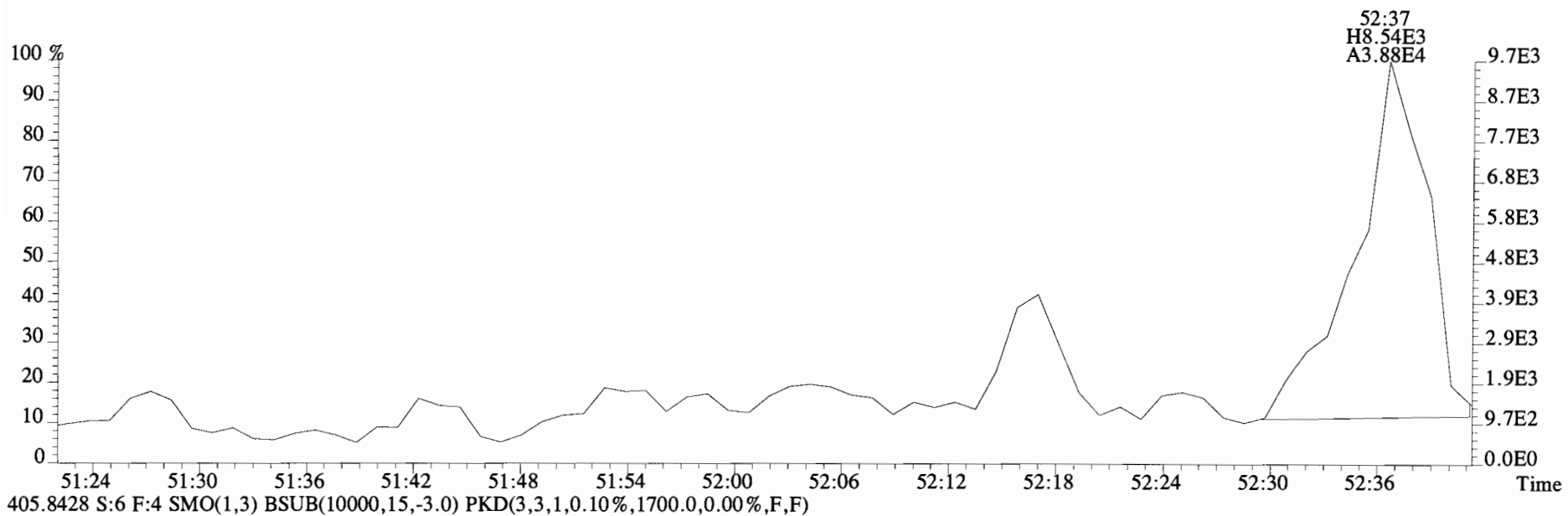




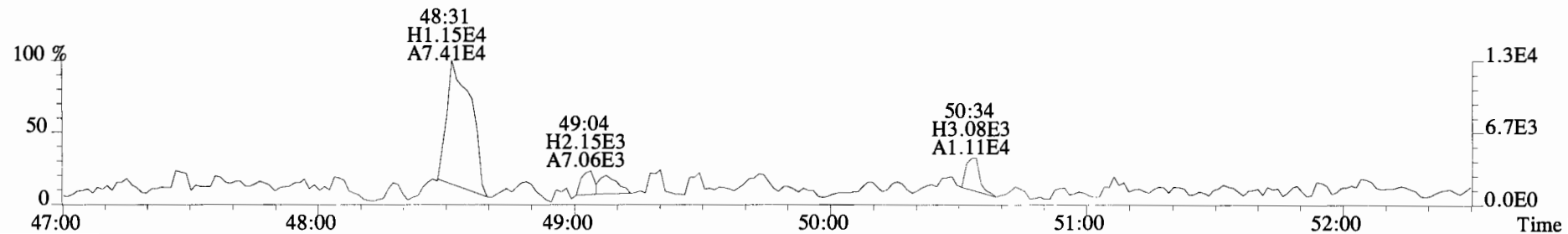
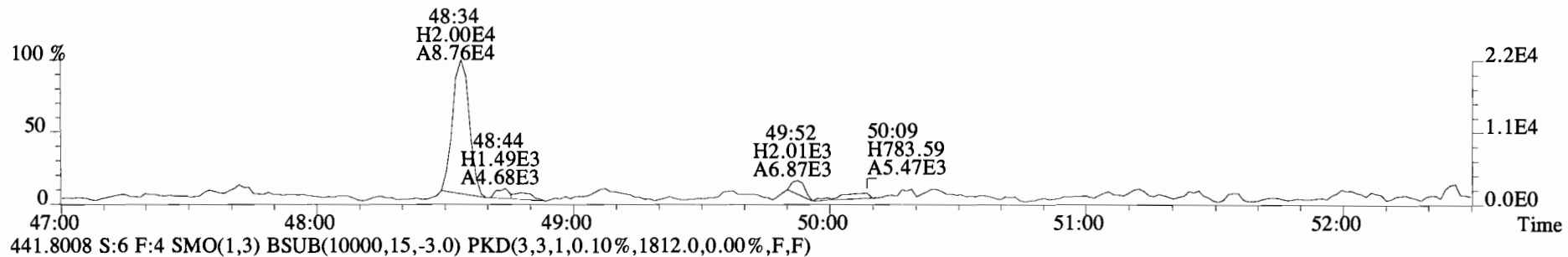
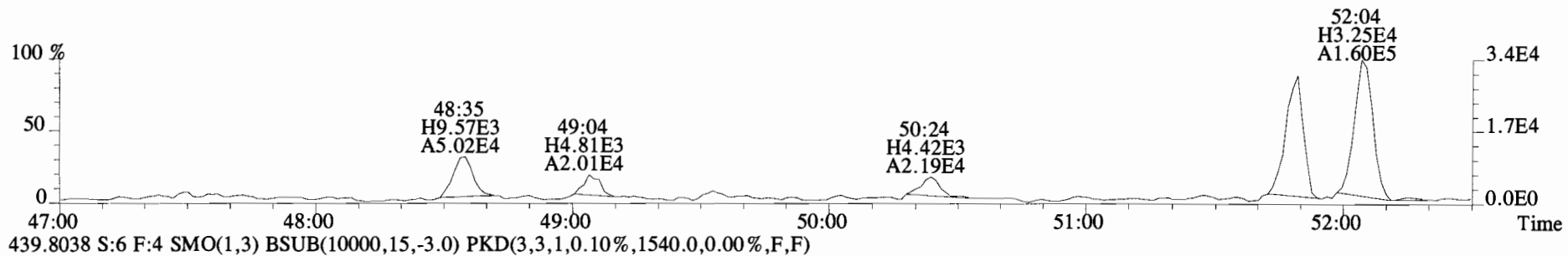
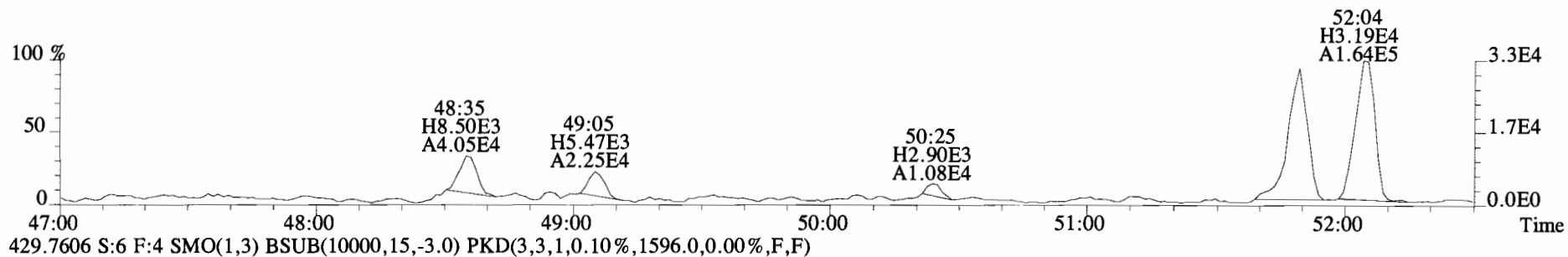
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1512.0,0.00%,F,F)



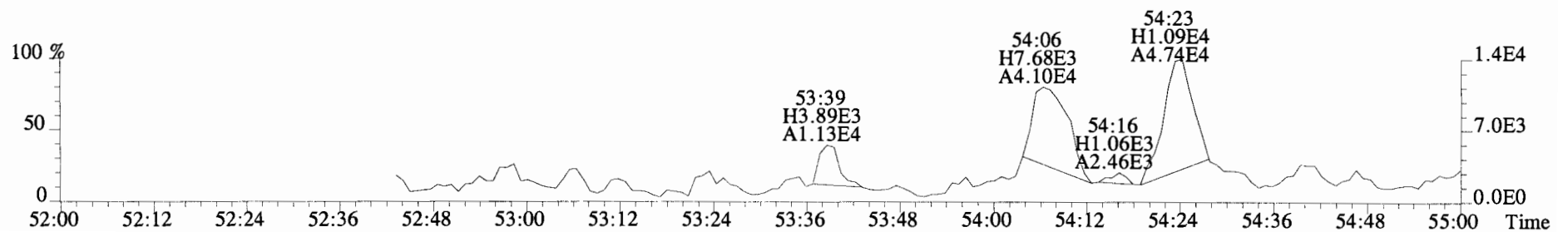
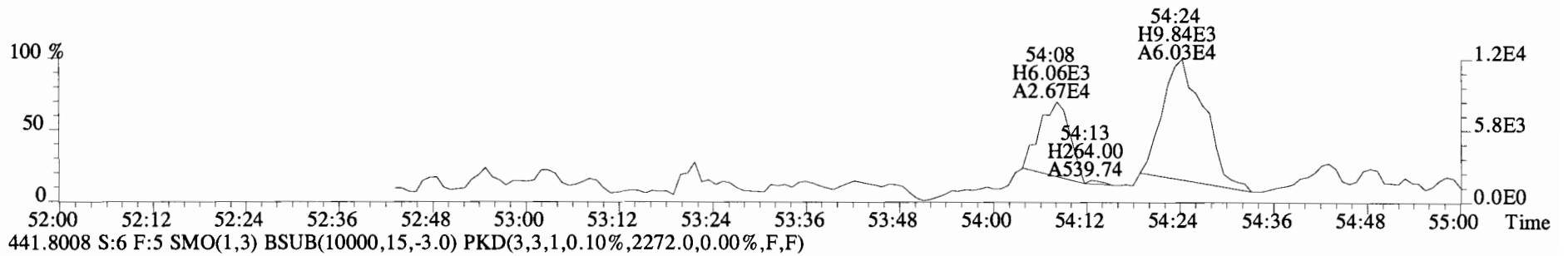
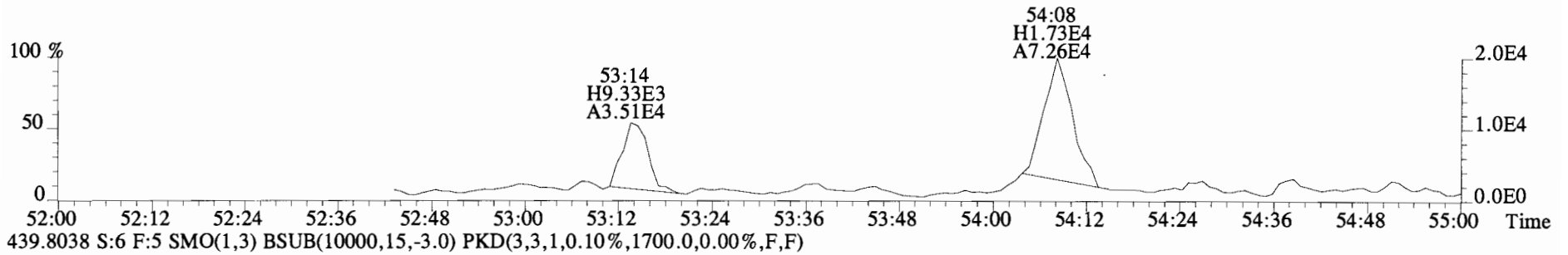
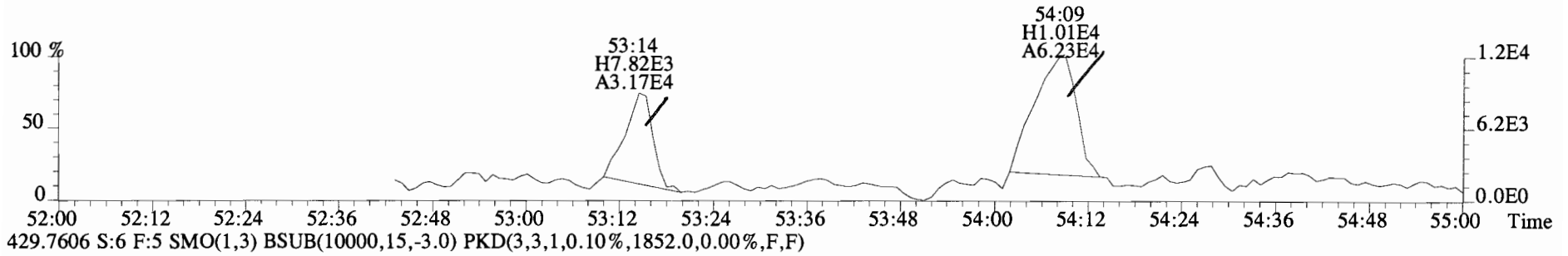
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403.8457 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1552.0,0.00%,F,F)



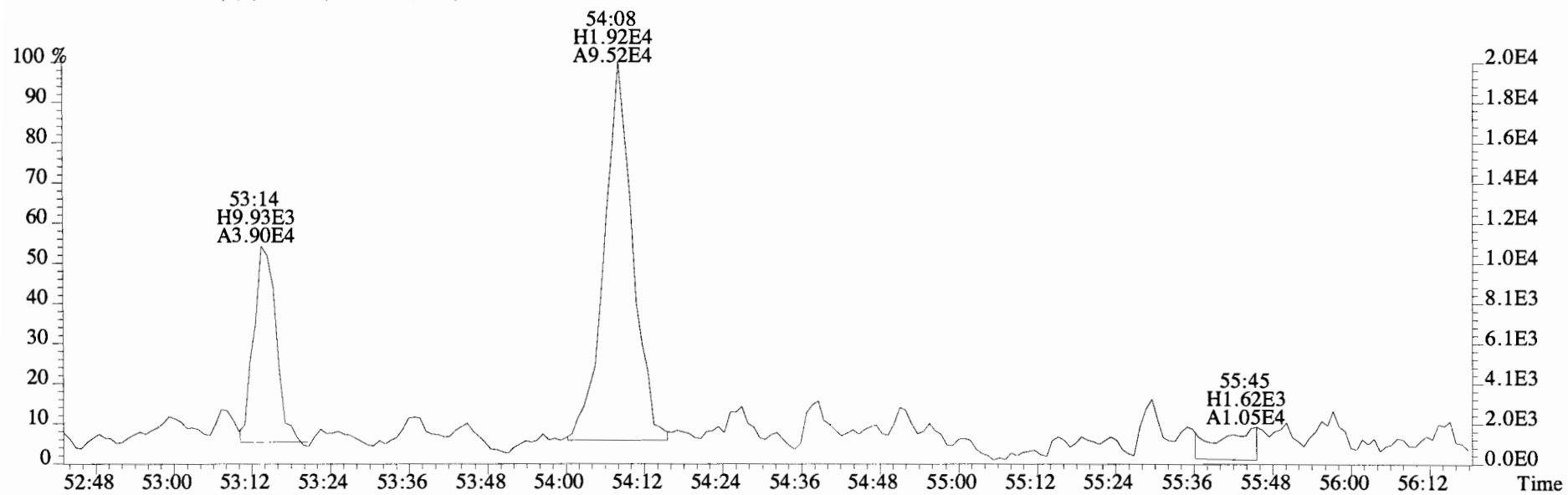
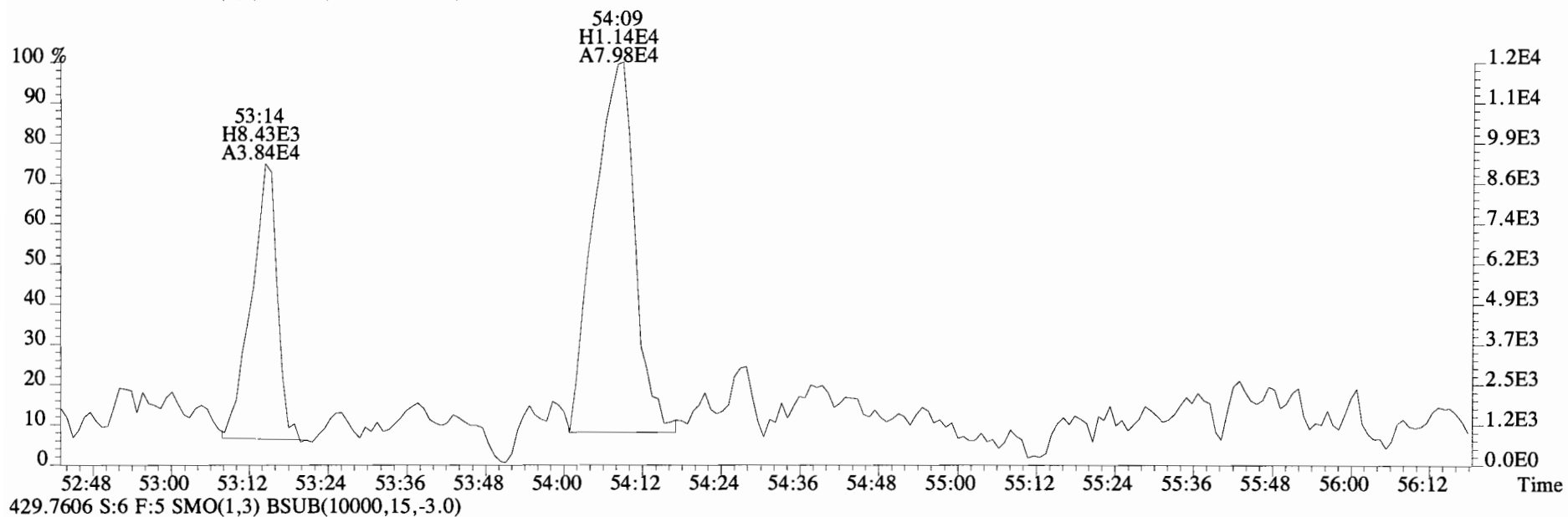
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



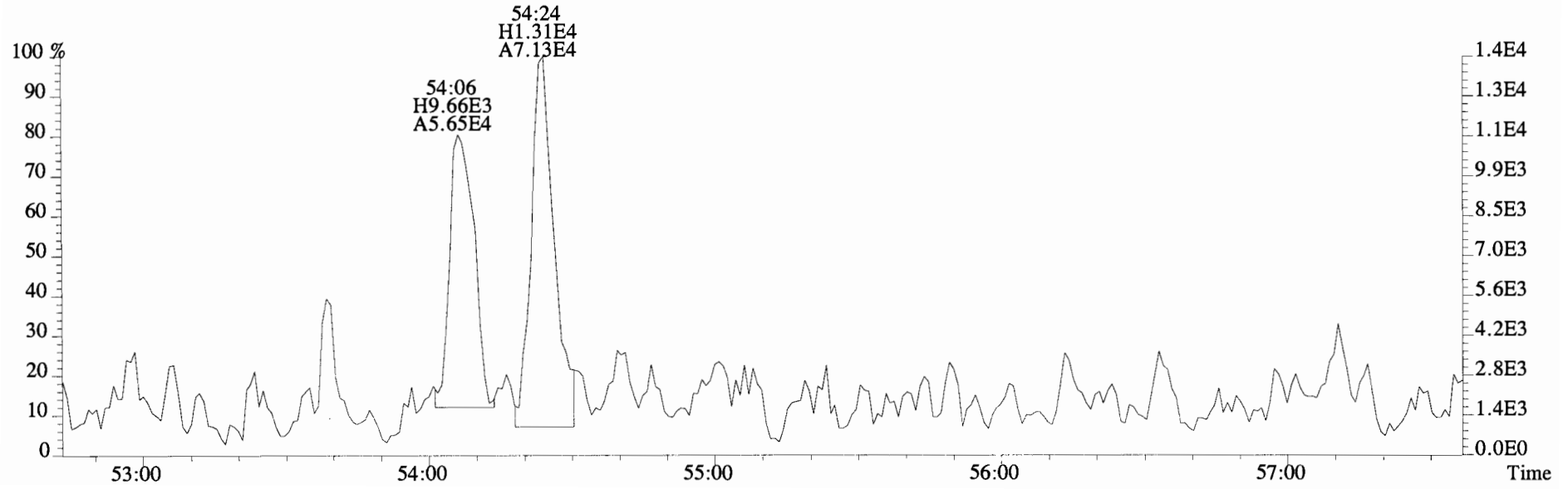
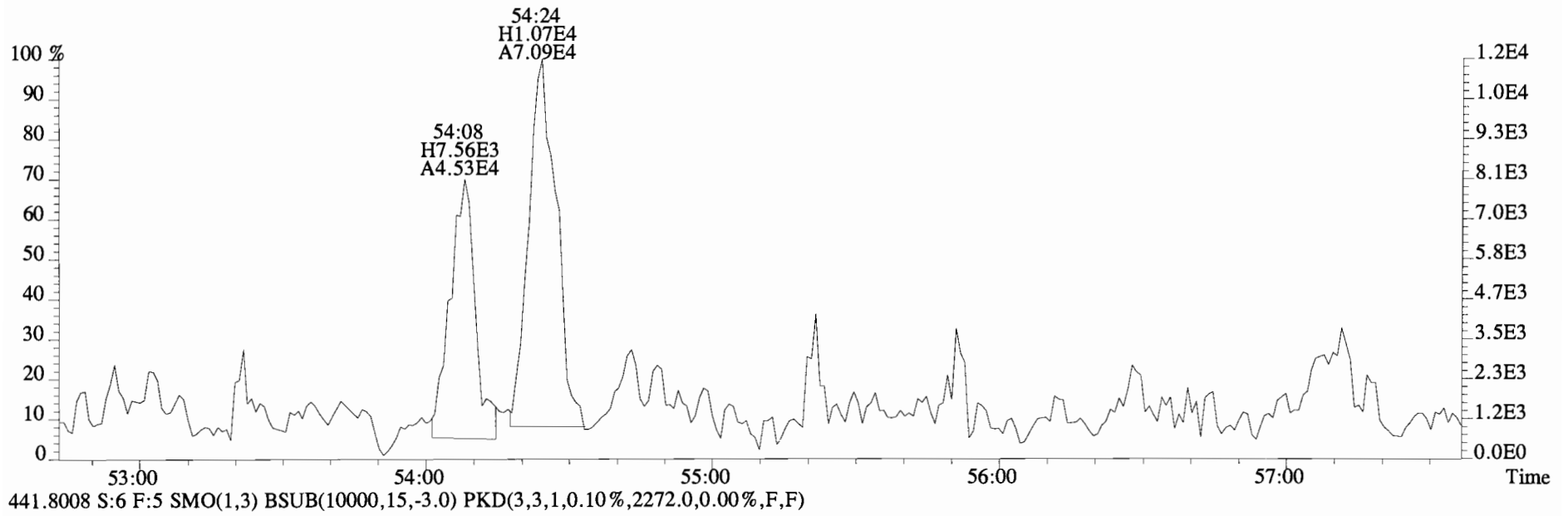
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1912.0,0.00%,F,F)



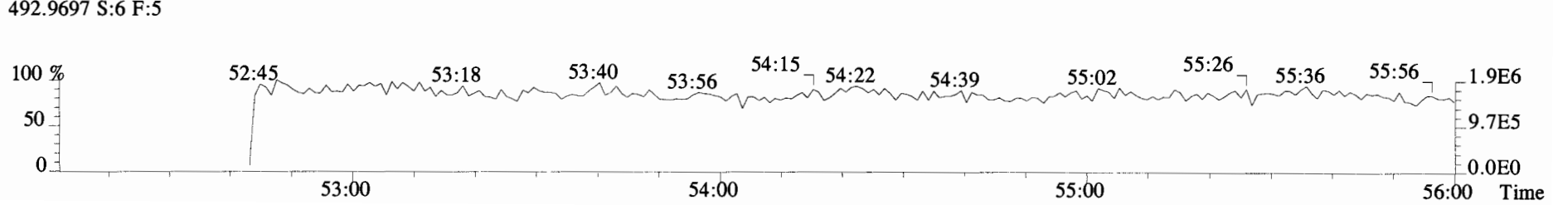
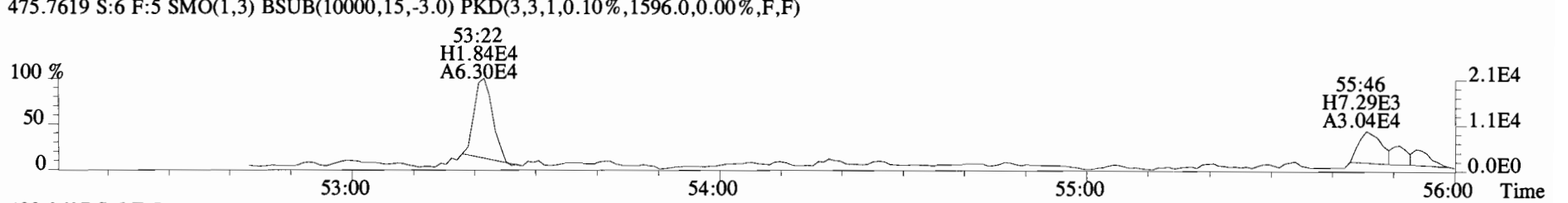
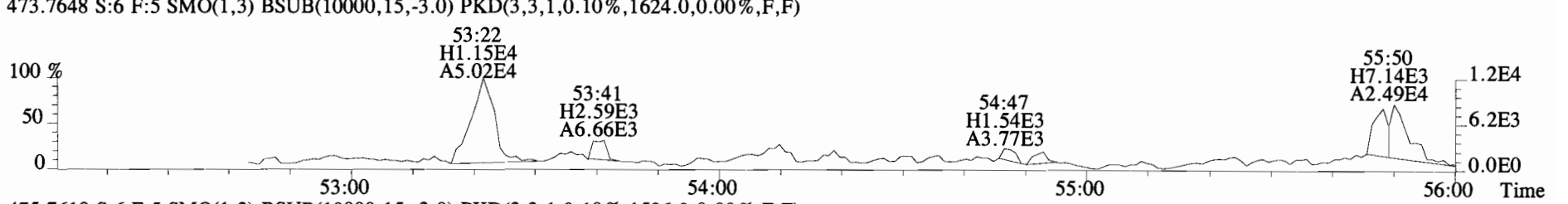
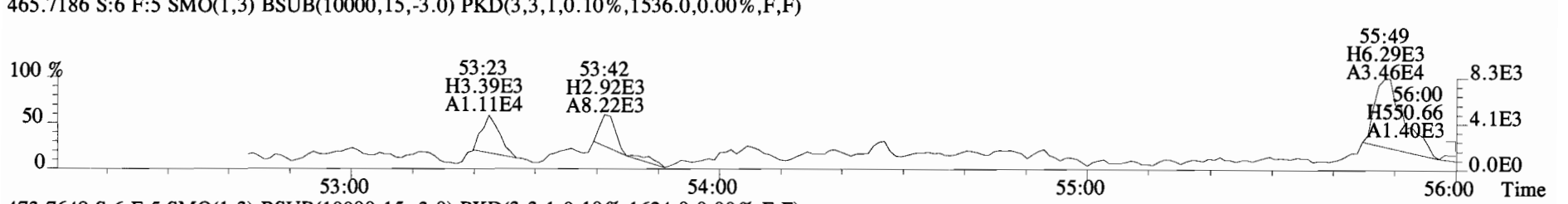
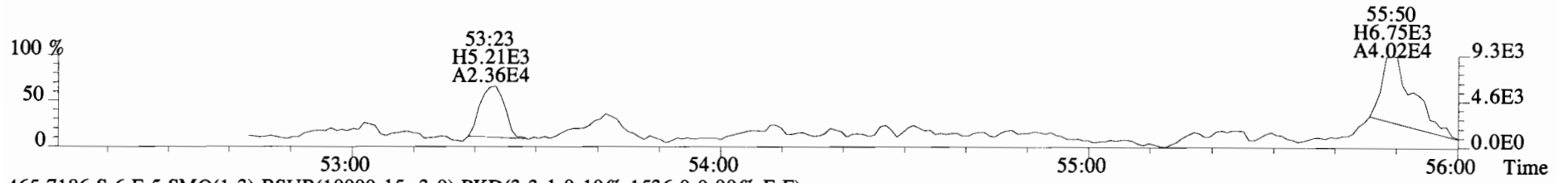
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427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0)



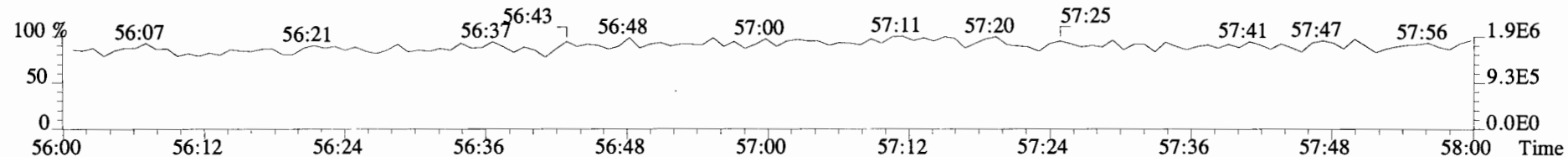
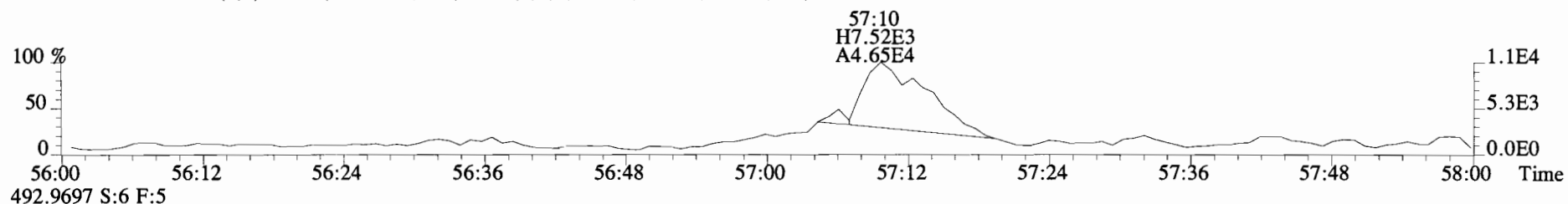
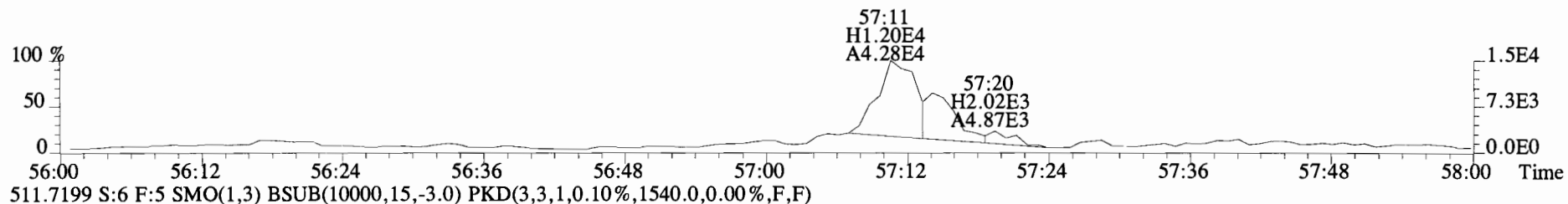
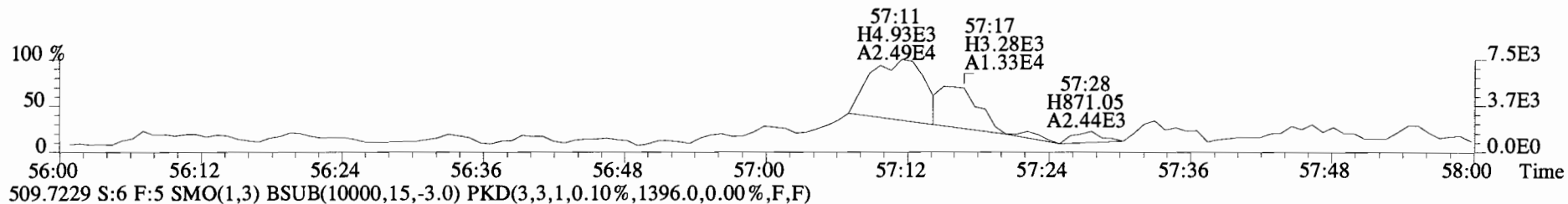
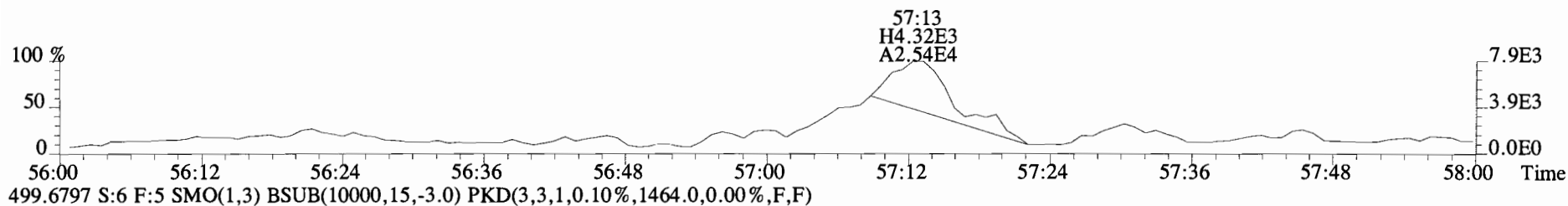
File:140922E1 #1-423 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
439.8038 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1700.0,0.00%,F,F)



File:140922E1 #1-423 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



File:140922E1 #1-423 Acq:22-SEP-2014 20:47:04 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400647-04RE2 DL 1:40 CS-CB-01-20140903-S Exp:PCB\_ZB1  
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1500.0,0.00%,F,F)





**CONTINUING CALIBRATION**

FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Episode No.:      CCAL ID: ST140909D1-1

Contract No.:      SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7      GC Column ID: ZB-5MS

VER Data Filename: 140909D1    S#1    Analysis Date: 9-SEP-14    Time: 13:03:13

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC.
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	9.53	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.59	0.54-0.72	y	49.5	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	47.8	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	49.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	49.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.2	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	95.3	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	9.79	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.32-1.78	y	49.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	50.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	48.4	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	48.3	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	48.1	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.31	1.05-1.43	y	48.5	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	46.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	0.88-1.20	y	46.9	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	93.6	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: ms

Date: 9/9/14

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: 140909D1    S#1    Analysis Date: 9-SEP-14    Time: 13:03:13

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	0.78	0.65-0.89	y	94.7	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	83.2	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	96.8	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	100	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	98.3	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	95.3	72.0 - 138.0
13C-OCDD	M/M+2	0.88	0.76-1.02	y	212	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.75	0.65-0.89	y	95.7	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	87.5	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	85.2	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	104	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	88.7	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	94.5	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	95.7	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	105	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	105	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	208	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.78	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DM

Date: 9/9/14

## 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: 140909D1 S#1 Analysis Date: 9-SEP-14 Time: 13:03:13

ZB-5MS IS Data Filename: 140909D1 S#1 Analysis Date: 9-SEP-14 Time: 13:03:13

DB\_225 IS Data Filename: Analysis Date: Time:

## ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:37	1,3,6,8-TCDF (F)	21:31
1,2,8,9-TCDD (L)	27:48	1,2,8,9-TCDF (L)	27:57
1,2,4,7,9-PeCDD (F)	29:23	1,3,4,6,8-PeCDF (F)	27:55
1,2,3,8,9-PeCDD (L)	31:47	1,2,3,8,9-PeCDF (L)	32:02
1,2,4,6,7,9-HxCDD (F)	33:13	1,2,3,4,6,8-HxCDF (F)	32:41
1,2,3,7,8,9-HxCDD (L)	35:12	1,2,3,7,8,9-HxCDF (L)	35:35
1,2,3,4,6,7,9-HpCDD (F)	37:49	1,2,3,4,6,7,8-HpCDF (F)	37:28
1,2,3,4,6,7,8-HpCDD (L)	38:39	1,2,3,4,7,8,9-HpCDF (L)	39:12

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

## =====

## ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

&lt;25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: msDate: 9/9/14

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: 140909D1 S#1 Analysis Date: 9-SEP-14 Time: 13:03:13

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	1.021	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: VM

Date: 9/9/14

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: 140909D1 S#1 Analysis Date: 9-SEP-14 Time: 13:03:13

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	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.001	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	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.092	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	1.225	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.232	1.091-1.371

Analyst: vm

Date: 9/9/14

Client ID: 1613 CS3 14F1201  
Lab ID: ST140909D1-1

Filename: 140909D1 S:1 Acq: 9-SEP-14 13:03:13  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140909D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.02e+06	0.76 y	1.03	26:57	1.001	9.5319	*	*	2.5	*	Total Tetra-Dioxins	55.0	55.2	*	*	
1,2,3,7,8-PeCDD	7.64e+06	0.59 y	0.84	31:25	1.000	49.460	*	*	2.5	*	Total Penta-Dioxins	162	162	*	*	
1,2,3,4,7,8-HxCDD	7.08e+06	1.23 y	1.05	34:46	1.000	47.812	*	*	2.5	*	Total Hexa-Dioxins	191	191	*	*	
1,2,3,6,7,8-HxCDD	7.53e+06	1.25 y	1.04	34:53	1.000	49.272	*	*	2.5	*	Total Hepta-Dioxins	131	133	*	*	
1,2,3,7,8,9-HxCDD	7.56e+06	1.29 y	0.90	35:12	1.001	49.099	*	*	2.5	*	Total Tetra-Furans	31.8	31.9	*	*	
1,2,3,4,6,7,8-HpCDD	6.66e+06	1.04 y	1.01	38:39	1.000	50.176	*	*	2.5	*	Total Penta-Furans	211.41	212.20	*	*	
OCDD	1.22e+07	0.90 y	1.04	42:01	1.000	95.302	*	*	2.5	*	Total Hexa-Furans	239	241	*	*	
											Total Hepta-Furans	93.4	95.0	*	*	
2,3,7,8-TCDF	2.46e+06	0.78 y	0.91	26:11	1.001	9.7886	*	*	2.5	*						
1,2,3,7,8-PeCDF	1.24e+07	1.63 y	0.97	30:15	1.000	49.690	*	*	2.5	*						
2,3,4,7,8-PeCDF	1.22e+07	1.64 y	0.94	31:08	1.000	50.910	*	*	2.5	*						
1,2,3,4,7,8-HxCDF	1.23e+07	1.28 y	1.32	33:53	1.000	48.402	*	*	2.5	*						
1,2,3,6,7,8-HxCDF	1.21e+07	1.29 y	1.18	34:00	1.001	48.349	*	*	2.5	*						
2,3,4,6,7,8-HxCDF	1.13e+07	1.28 y	1.23	34:36	1.000	48.093	*	*	2.5	*						
1,2,3,7,8,9-HxCDF	9.10e+06	1.31 y	1.13	35:35	1.000	48.475	*	*	2.5	*						
1,2,3,4,6,7,8-HpCDF	1.06e+07	1.07 y	1.57	37:28	1.000	46.449	*	*	2.5	*						
1,2,3,4,7,8,9-HpCDF	9.36e+06	1.09 y	1.50	39:12	1.000	46.930	*	*	2.5	*						
OCDF	1.53e+07	0.91 y	1.05	42:14	1.000	93.571	*	*	2.5	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	2.05e+07	0.78 y	1.06	26:56	1.021	94.720					94.7					
IS 13C-1,2,3,7,8-PeCDD	1.84e+07	0.62 y	1.08	31:25	1.190	83.229					83.2					
IS 13C-1,2,3,4,7,8-HxCDD	1.41e+07	1.28 y	0.74	34:46	1.014	96.811					96.8					
IS 13C-1,2,3,6,7,8-HxCDD	1.47e+07	1.26 y	0.75	34:52	1.017	100.09					100					
IS 13C-1,2,3,7,8,9-HxCDD	1.72e+07	1.21 y	0.89	35:11	1.026	98.291					98.3					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.32e+07	1.04 y	0.70	38:38	1.127	95.328					95.3					
IS 13C-OCDD	2.46e+07	0.88 y	0.59	41:60	1.225	212.48					106					
IS 13C-2,3,7,8-TCDF	2.76e+07	0.75 y	0.97	26:09	0.991	95.679					95.7					
IS 13C-1,2,3,7,8-PeCDF	2.58e+07	1.57 y	0.99	30:15	1.146	87.451					87.5					
IS 13C-2,3,4,7,8-PeCDF	2.56e+07	1.58 y	1.01	31:07	1.180	85.211					85.2					
IS 13C-1,2,3,4,7,8-HxCDF	1.93e+07	0.51 y	0.94	33:52	0.988	104.37					104					
IS 13C-1,2,3,6,7,8-HxCDF	2.14e+07	0.51 y	1.23	33:59	0.991	88.677					88.7					
IS 13C-2,3,4,6,7,8-HxCDF	1.92e+07	0.52 y	1.03	34:36	1.009	94.533					94.5					
IS 13C-1,2,3,7,8,9-HxCDF	1.66e+07	0.53 y	0.89	35:34	1.038	95.663					95.7					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.46e+07	0.43 y	0.71	37:27	1.092	105.03					105					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.33e+07	0.44 y	0.64	39:11	1.143	105.22					105					
IS 13C-OCDF	3.10e+07	0.90 y	0.76	42:13	1.232	208.14					104					
C/Up 37Cl-2,3,7,8-TCDD	2.08e+06		1.04	26:57	1.021	9.7771					1960					
RS/RT 13C-1,2,3,4-TCDD	2.03e+07	0.78 y	1.00	26:23	*	100.00										
RS 13C-1,2,3,4-TCDF	2.98e+07	0.77 y	1.00	24:59	*	100.00										
RS/RT 13C-1,2,3,4,6,9-HxCDF	1.96e+07	0.51 y	1.00	34:17	*	100.00										

Integrations Reviewed  
by Analyst: MS by  
Date: 9/9/14 Date:

Vista Analytical Laboratory - Injection Log Run file: 140909D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140909D1	1	ST140909D1-1	MAS	9-SEP-14	13:03:13	ST140909D1-1	NA
140909D1	2	ST140909D1-2	MAS	9-SEP-14	13:51:29	ST140909D1-2	ST140909D1-3
140909D1	3	SOLVENT BLANK	MAS	9-SEP-14	14:39:42	ST140909D1-1	NA
140909D1	4	B4I0017-BS1	MAS	9-SEP-14	15:27:59	ST140909D1-2	ST140909D1-3
140909D1	5	B4I0020-BS1	MAS	9-SEP-14	16:16:16	ST140909D1-1	NA
140909D1	6	SOLVENT BLANK	MAS	9-SEP-14	17:04:34	NA	NA
140909D1	7	B4I0017-BLK1	MAS	9-SEP-14	17:52:51	ST140909D1-2	ST140909D1-3
140909D1	8	B4I0020-BLK1	MAS	9-SEP-14	18:41:03	ST140909D1-1	NA
140909D1	9	1400644-01	MAS	9-SEP-14	19:29:16	ST140909D1-1	NA
140909D1	10	1400647-01	MAS	9-SEP-14	20:17:28	ST140909D1-1	NA
140909D1	11	1400647-02	MAS	9-SEP-14	21:05:40	ST140909D1-1	NA
140909D1	12	1400647-03	MAS	9-SEP-14	21:53:55	ST140909D1-1	NA
140909D1	13	1400649-01	MAS	9-SEP-14	22:42:06	ST140909D1-1	NA
140909D1	14	1400648-01	MAS	9-SEP-14	23:30:18	ST140909D1-2	ST140909D1-3
140909D1	15	SOLVENT BLANK	MAS	10-SEP-14	00:18:30	NA	NA
140909D1	16	ST140909D1-3	MAS	10-SEP-14	01:06:41	ST140909D1-2	ST140909D1-3



# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST14090901-1

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

Mass resolution > 10,000?  
 ■ Method 1614 > 5,000; CARB 429 > 8,000

TCDD/TCDF valleys < 25%?

Peaks integrated correctly?

Manual integrations included?

8280 CS1 Ending Standard

-Ratios within limits

-S/N > 2.5:1

-CS1 within 12-hour clock

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

*Comments:*

Reviewed by: DMS 9/10/14  
*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: ST140912D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140912D1 S#1 Analysis Date: 12-SEP-14 Time: 11:05:08

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	9.70	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.59	0.54-0.72	y	46.7	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	48.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.20	1.05-1.43	y	47.6	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	48.3	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	50.4	43.0 - 58.0
OCDD	M+2/M+4	0.87	0.76-1.02	y	97.0	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.22	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	49.1	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	49.4	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	48.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	49.0	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	48.6	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	46.9	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.10	0.88-1.20	y	46.4	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	95.9	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: 9/12/14

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: 140912D1 S#1 Analysis Date: 12-SEP-14 Time: 11:05:08

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	0.80	0.65-0.89	y	94.1	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	85.6	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	98.2	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	106	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	105	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	99.1	72.0 - 138.0
13C-OCDD	M/M+2	0.87	0.76-1.02	y	217	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.74	0.65-0.89	y	98.7	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	87.7	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	82.3	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	104	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	89.6	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	94.2	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	100	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.45	0.37-0.51	y	107	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.42	0.37-0.51	y	105	77.0 - 129.0
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	208	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.92	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: MM

Date: 9/12/14

## 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: 140912D1 S#1 Analysis Date: 12-SEP-14 Time: 11:05:08

ZB-5MS IS Data Filename: 140912D1 S#1 Analysis Date: 12-SEP-14 Time: 11:05:08

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)	23:38	1,3,6,8-TCDF (F)	21:32
1,2,8,9-TCDD (L)	27:49	1,2,8,9-TCDF (L)	27:57
1,2,4,7,9-PeCDD (F)	29:24	1,3,4,6,8-PeCDF (F)	27:55
1,2,3,8,9-PeCDD (L)	31:48	1,2,3,8,9-PeCDF (L)	32:02
1,2,4,6,7,9-HxCDD (F)	33:14	1,2,3,4,6,8-HxCDF (F)	32:41
1,2,3,7,8,9-HxCDD (L)	35:12	1,2,3,7,8,9-HxCDF (L)	35:35
1,2,3,4,6,7,9-HpCDD (F)	37:49	1,2,3,4,6,7,8-HpCDF (F)	37:28
1,2,3,4,6,7,8-HpCDD (L)	38:39	1,2,3,4,7,8,9-HpCDF (L)	39:12

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

## =====

## ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

&lt;25%

(1) To meet contract requirements, %Valley Height Between Compared  
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: MSDate: 9/12/14

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: 140912D1 S#1 Analysis Date: 12-SEP-14 Time: 11:05:08

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: 9/2/14

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: 140912D1 S#1 Analysis Date: 12-SEP-14 Time: 11:05:08

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	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	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	1.001	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	1.143	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	1.225	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.231	1.091-1.371

Analyst: my

Date: 9/12/14

Client ID: 1613 CS3 14F1201  
Lab ID: ST140912D1-1

Filename: 140912D1 S:1 Acq:12-SEP-14 11:05:08  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140912D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.15e+06	0.76 y	1.03	26:58	1.001	9.7020	*	2.5	*	*	Total Tetra-Dioxins	55.8	56.2	*	*	
1,2,3,7,8-PeCDD	7.81e+06	0.59 y	0.84	31:26	1.001	46.677	*	2.5	*	*	Total Penta-Dioxins	153	153	*	*	
1,2,3,4,7,8-HxCDD	7.74e+06	1.30 y	1.05	34:47	1.000	48.193	*	2.5	*	*	Total Hexa-Dioxins	188	189	*	*	
1,2,3,6,7,8-HxCDD	8.21e+06	1.20 y	1.04	34:54	1.001	47.610	*	2.5	*	*	Total Hepta-Dioxins	130	131	*	*	
1,2,3,7,8,9-HxCDD	8.49e+06	1.24 y	0.90	35:12	1.000	48.267	*	2.5	*	*	Total Tetra-Furans	30.2	30.5	*	*	
1,2,3,4,6,7,8-HpCDD	7.44e+06	1.05 y	1.01	38:39	1.000	50.417	*	2.5	*	*	Total Penta-Furans	212.13	212.65	*	*	
OCDD	1.36e+07	0.87 y	1.04	42:01	1.000	97.028	*	2.5	*	*	Total Hexa-Furans	240	241	*	*	
											Total Hepta-Furans	93.6	94.6	*	*	
2,3,7,8-TCDF	2.47e+06	0.76 y	0.91	26:11	1.001	9.2196	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.28e+07	1.58 y	0.97	30:16	1.000	49.062	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.19e+07	1.59 y	0.94	31:09	1.000	49.417	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.30e+07	1.27 y	1.32	33:53	1.000	48.074	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.33e+07	1.28 y	1.18	34:01	1.000	49.046	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.22e+07	1.27 y	1.23	34:37	1.001	48.601	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.00e+07	1.24 y	1.13	35:35	1.000	47.783	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.17e+07	1.07 y	1.57	37:28	1.001	46.911	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	9.90e+06	1.10 y	1.50	39:12	1.001	46.448	*	2.5	*	*						
OCDF	1.68e+07	0.93 y	1.05	42:14	1.000	95.895	*	2.5	*	*						

											Rec	Qual
IS	13C-2,3,7,8-TCDD	2.14e+07	0.80 y	1.06	26:56	1.021	94.123				94.1	
IS	13C-1,2,3,7,8-PeCDD	1.99e+07	0.62 y	1.08	31:25	1.190	85.634				85.6	
IS	13C-1,2,3,4,7,8-HxCDD	1.53e+07	1.26 y	0.74	34:46	1.014	98.241				98.2	
IS	13C-1,2,3,6,7,8-HxCDD	1.66e+07	1.21 y	0.75	34:53	1.017	105.71				106	
IS	13C-1,2,3,7,8,9-HxCDD	1.97e+07	1.23 y	0.89	35:11	1.026	105.16				105	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.46e+07	1.03 y	0.70	38:38	1.127	99.149				99.1	
IS	13C-OCDD	2.68e+07	0.87 y	0.59	41:60	1.225	217.24				109	
IS	13C-2,3,7,8-TCDF	2.94e+07	0.74 y	0.97	26:10	0.991	98.662				98.7	
IS	13C-1,2,3,7,8-PeCDF	2.68e+07	1.56 y	0.99	30:15	1.146	87.654				87.7	
IS	13C-2,3,4,7,8-PeCDF	2.56e+07	1.59 y	1.01	31:08	1.180	82.349				82.3	
IS	13C-1,2,3,4,7,8-HxCDF	2.05e+07	0.52 y	0.94	33:52	0.988	103.97				104	
IS	13C-1,2,3,6,7,8-HxCDF	2.31e+07	0.52 y	1.23	33:60	0.991	89.569				89.6	
IS	13C-2,3,4,6,7,8-HxCDF	2.04e+07	0.52 y	1.03	34:36	1.009	94.219				94.2	
IS	13C-1,2,3,7,8,9-HxCDF	1.86e+07	0.50 y	0.89	35:35	1.037	100.28				100	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.58e+07	0.45 y	0.71	37:27	1.092	106.74				107	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.42e+07	0.42 y	0.64	39:11	1.143	105.31				105	
IS	13C-OCDF	3.31e+07	0.91 y	0.76	42:13	1.231	208.39				104	

C/Up	37C1-2,3,7,8-TCDD	2.22e+06		1.04	26:58	1.021	9.9237				24.8	
RS/RT	13C-1,2,3,4-TCDD	2.14e+07	0.80 y	1.00	26:24	*	100.00					
RS	13C-1,2,3,4-TCDF	3.08e+07	0.74 y	1.00	24:59	*	100.00					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.10e+07	0.51 y	1.00	34:18	*	100.00					

Integrations  
by  
Analyst: ms  
Date: 9/12/14  
Reviewed  
by  
Analyst: 60/2  
Date: 9/13/14

Vista Analytical Laboratory - Injection Log Run file: 140912D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140912D1	1	ST140912D1-1	MAS	12-SEP-14	11:05:08	ST140912D1-1	NA
140912D1	2	ST140912D1-2	MAS	12-SEP-14	11:53:19	ST140912D1-2	NA
140912D1	3	SOLVENT BLANK	MAS	12-SEP-14	12:41:37	ST140912D1-1	NA
140912D1	4	SOLVENT BLANK	MAS	12-SEP-14	13:29:54	ST140912D1-1	NA
140912D1	5	SOLVENT BLANK	MAS	12-SEP-14	14:18:11	ST140912D1-1	NA
140912D1	6	B4I0031-BS1	MAS	12-SEP-14	15:06:29	ST140912D1-1	NA
140912D1	7	B4I0039-BS1	MAS	12-SEP-14	15:54:46	ST140912D1-1	NA
140912D1	8	SOLVENT BLANK	MAS	12-SEP-14	16:43:04	ST140912D1-1	NA
140912D1	9	B4I0031-BLK1	MAS	12-SEP-14	17:31:21	ST140912D1-1	NA
140912D1	10	B4I0039-BLK1	MAS	12-SEP-14	18:19:38	ST140912D1-1	NA
140912D1	11	1400657-01	MAS	12-SEP-14	19:07:56	ST140912D1-1	NA
140912D1	12	1400658-01	MAS	12-SEP-14	19:56:12	ST140912D1-1	NA
140912D1	13	1400660-01	MAS	12-SEP-14	20:44:29	ST140912D1-1	NA
140912D1	14	1400660-02	MAS	12-SEP-14	21:32:41	ST140912D1-1	NA
140912D1	15	1400647-04RE1	MAS	12-SEP-14	22:20:56	ST140912D1-1	NA
140912D1	16	SOLVENT BLANK	MAS	12-SEP-14	23:09:13	ST140912D1-1	NA
140912D1	17	SOLVENT BLANK	MAS	12-SEP-14	23:57:24	ST140912D1-1	NA



# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140 9/12/11-1

End Calibration ID: AA

	<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 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 type="checkbox"/>
TCDD/TCDF 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 type="checkbox"/>

**Comments:**

Reviewed by: WJZ 9/13/11  
*Initials & Date*

\* Ending standard criteria applicable to 8290 only.

FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST140916D2-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140916D2 S#1 Analysis Date: 16-SEP-14 Time: 15:03:25

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.72	0.65-0.89	y	9.63	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	50.7	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	47.9	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	49.0	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	51.9	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	99.6	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.75	0.65-0.89	y	9.82	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	54.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	54.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.6	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	48.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.3	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	47.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	46.8	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	96.8	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: 9/16/14

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: 140916D2 S#1 Analysis Date: 16-SEP-14 Time: 15:03:25

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	0.77	0.65-0.89	y	96.3	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	83.2	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	101	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	101	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	99.4	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	99.6	72.0 - 138.0
13C-OCDD	M/M+2	0.90	0.76-1.02	y	198	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.75	0.65-0.89	y	105	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	87.2	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	83.1	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	97.4	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	90.9	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	95.8	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	96.7	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	109	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.42	0.37-0.51	y	107	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	197	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: ms

Date: 9/16/14

## 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: 140916D2 S#1 Analysis Date: 16-SEP-14 Time: 15:03:25

ZB-5MS IS Data Filename: 140916D2 S#1 Analysis Date: 16-SEP-14 Time: 15:03:25

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)	23:41	1,3,6,8-TCDF (F)	21:33
1,2,8,9-TCDD (L)	27:56	1,2,8,9-TCDF (L)	28:04
1,2,4,7,9-PeCDD (F)	29:33	1,3,4,6,8-PeCDF (F)	28:02
1,2,3,8,9-PeCDD (L)	31:59	1,2,3,8,9-PeCDF (L)	32:13
1,2,4,6,7,9-HxCDD (F)	33:27	1,2,3,4,6,8-HxCDF (F)	32:54
1,2,3,7,8,9-HxCDD (L)	35:30	1,2,3,7,8,9-HxCDF (L)	35:53
1,2,3,4,6,7,9-HpCDD (F)	38:14	1,2,3,4,6,7,8-HpCDF (F)	37:51
1,2,3,4,6,7,8-HpCDD (L)	39:08	1,2,3,4,7,8,9-HpCDF (L)	39:42

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

## =====

## ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

&lt;25%

(1) To meet contract requirements, %Valley Height Between Compared  
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: MMDate: 9/16/14

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: 140916D2 S#1 Analysis Date: 16-SEP-14 Time: 15:03:25

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	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.193	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.148	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.182	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

Analyst: MS

Date: 9/16/14

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: 140916D2 S#1 Analysis Date: 16-SEP-14 Time: 15:03:25

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE			
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005	
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001	
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001	
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004	
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004	
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001	
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001	
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001	
OCDD	13C-OCDD	1.000	0.999-1.001	
OCDF	13C-OCDF	1.000	0.999-1.001	

(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	0.987	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.015	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.018	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.027	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.095	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.149	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.132	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.239	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.245	1.091-1.371

Analyst: MI

Date: 9/16/14

Client ID: 1613 CS3 14F1201  
Lab ID: ST140916D2-1

Filename: 140916D2 S:1 Acq:16-SEP-14 15:03:25  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140916D2-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.16e+06	0.72 y	1.03	27:04	1.001	9.6257	*	*	2.5	*	Total Tetra-Dioxins	56.5	56.8	*	*	
1,2,3,7,8-PeCDD	8.14e+06	0.61 y	0.84	31:37	1.000	50.657	*	*	2.5	*	Total Penta-Dioxins	158	158	*	*	
1,2,3,4,7,8-HxCDD	7.89e+06	1.26 y	1.05	35:04	1.000	47.903	*	*	2.5	*	Total Hexa-Dioxins	191	192	*	*	
1,2,3,6,7,8-HxCDD	8.17e+06	1.25 y	1.04	35:11	1.000	50.026	*	*	2.5	*	Total Hepta-Dioxins	126	126	*	*	
1,2,3,7,8,9-HxCDD	8.10e+06	1.27 y	0.90	35:30	1.000	48.989	*	*	2.5	*	Total Tetra-Furans	30.1	30.4	*	*	
1,2,3,4,6,7,8-HpCDD	7.64e+06	1.05 y	1.01	39:08	1.001	51.871	*	*	2.5	*	Total Penta-Furans	223.63	223.90	*	*	
OCDD	1.27e+07	0.89 y	1.04	42:48	1.000	99.641	*	*	2.5	*	Total Hexa-Furans	246	247	*	*	
											Total Hepta-Furans	94.6	95.2	*	*	

2,3,7,8-TCDF	2.73e+06	0.75 y	0.91	26:17	1.001	9.8231	*	*	2.5	*
1,2,3,7,8-PeCDF	1.37e+07	1.60 y	0.97	30:25	1.000	54.616	*	*	2.5	*
2,3,4,7,8-PeCDF	1.29e+07	1.58 y	0.94	31:19	1.000	54.936	*	*	2.5	*
1,2,3,4,7,8-HxCDF	1.25e+07	1.29 y	1.32	34:07	1.000	49.596	*	*	2.5	*
1,2,3,6,7,8-HxCDF	1.37e+07	1.26 y	1.18	34:16	1.000	50.227	*	*	2.5	*
2,3,4,6,7,8-HxCDF	1.24e+07	1.28 y	1.23	34:53	1.000	48.746	*	*	2.5	*
1,2,3,7,8,9-HxCDF	9.94e+06	1.29 y	1.13	35:53	1.000	49.276	*	*	2.5	*
1,2,3,4,6,7,8-HpCDF	1.20e+07	1.08 y	1.57	37:51	1.001	47.385	*	*	2.5	*
1,2,3,4,7,8,9-HpCDF	1.01e+07	1.08 y	1.50	39:42	1.000	46.840	*	*	2.5	*
OCDF	1.59e+07	0.93 y	1.05	43:01	1.000	96.780	*	*	2.5	*

IS	13C-2,3,7,8-TCDD	2.17e+07	0.77 y	1.06	27:03	1.021	96.327	96.3
IS	13C-1,2,3,7,8-PeCDD	1.91e+07	0.63 y	1.08	31:36	1.193	83.172	83.2
IS	13C-1,2,3,4,7,8-HxCDD	1.57e+07	1.30 y	0.74	35:03	1.015	101.36	101
IS	13C-1,2,3,6,7,8-HxCDD	1.57e+07	1.29 y	0.75	35:10	1.018	100.66	101
IS	13C-1,2,3,7,8,9-HxCDD	1.85e+07	1.27 y	0.89	35:29	1.027	99.391	99.4
IS	13C-1,2,3,4,6,7,8-HpCDD	1.46e+07	1.04 y	0.70	39:06	1.132	99.569	99.6
IS	13C-OCDD	2.44e+07	0.90 y	0.59	42:47	1.239	198.41	99.2
IS	13C-2,3,7,8-TCDF	3.05e+07	0.75 y	0.97	26:16	0.992	105.20	105
IS	13C-1,2,3,7,8-PeCDF	2.58e+07	1.61 y	0.99	30:24	1.148	87.173	87.2
IS	13C-2,3,4,7,8-PeCDF	2.51e+07	1.58 y	1.01	31:19	1.182	83.097	83.1
IS	13C-1,2,3,4,7,8-HxCDF	1.91e+07	0.51 y	0.94	34:07	0.987	97.359	97.4
IS	13C-1,2,3,6,7,8-HxCDF	2.33e+07	0.53 y	1.23	34:15	0.991	90.855	90.9
IS	13C-2,3,4,6,7,8-HxCDF	2.06e+07	0.52 y	1.03	34:52	1.009	95.807	95.8
IS	13C-1,2,3,7,8,9-HxCDF	1.78e+07	0.52 y	0.89	35:52	1.038	96.712	96.7
IS	13C-1,2,3,4,6,7,8-HpCDF	1.61e+07	0.44 y	0.71	37:50	1.095	109.36	109
IS	13C-1,2,3,4,7,8,9-HpCDF	1.43e+07	0.42 y	0.64	39:41	1.149	106.99	107
IS	13C-OCDF	3.12e+07	0.90 y	0.76	43:00	1.245	197.29	98.6

C/Up	37Cl-2,3,7,8-TCDD	2.31e+06		1.04	27:03	1.022	10.460	26.1
RS/RT	13C-1,2,3,4-TCDD	2.12e+07	0.80 y	1.00	26:29	*	100.00	
RS	13C-1,2,3,4-TCDF	2.99e+07	0.74 y	1.00	25:04	*	100.00	
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.08e+07	0.52 y	1.00	34:33	*	100.00	

Rec Qual

Integrations Reviewed  
by Analyst: ms by Analyst: CG  
Date: 9/16/14 Date: 9/17/14

Vista Analytical Laboratory - Injection Log Run file: 140916D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140916D2	1	ST140916D2-1	MAS	16-SEP-14	15:03:25	ST140916D2-1	NA
140916D2	2	SOLVENT BLANK	MAS	16-SEP-14	15:51:45	ST140916D2-1	NA
140916D2	3	SOLVENT BLANK	MAS	16-SEP-14	16:40:07	ST140916D2-1	NA
140916D2	4	SOLVENT BLANK	MAS	16-SEP-14	17:28:29	ST140916D2-1	NA
140916D2	5	B4I0054-BS1	MAS	16-SEP-14	18:16:51	ST140916D2-1	NA
140916D2	6	SOLVENT BLANK	MAS	16-SEP-14	19:05:13	ST140916D2-1	NA
140916D2	7	B4I0054-BLK1	MAS	16-SEP-14	19:53:34	ST140916D2-1	NA
140916D2	8	1400647-04	MAS	16-SEP-14	20:41:57	ST140916D2-1	NA
140916D2	9	1400661-01RE1	MAS	16-SEP-14	21:30:18	ST140916D2-1	NA
140916D2	10	1400661-01	MAS	16-SEP-14	22:18:40	ST140916D2-1	NA
140916D2	11	SOLVENT BLANK	MAS	16-SEP-14	23:07:02	ST140916D2-1	NA
140916D2	12	SOLVENT BLANK	MAS	16-SEP-14	23:55:24	ST140916D2-1	NA



# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140916D2-1

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution > <u>10,000?</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>TCDD/TCDF</u> valleys < 25%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8280 CS1 Ending Standard		<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-Ratios within limits		<input type="checkbox"/>
Run Log:			-S/N > 2.5:1		<input type="checkbox"/>
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-CS1 within 12-hour clock		<input type="checkbox" value="↓"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="J"/>	<i>Comments: S10s dropped out during end resolution check. Two functions printed. MS 9/17/14</i>		
-Samples within 12-hour clock?	<input checked="" type="checkbox" value="y"/>	<input type="checkbox" value="n"/>			

Reviewed by: CS 9/17/14  
*Initials & Date*

\* Ending standard criteria applicable to 8290 only.

FORM 4A  
 PCDD/PCDF CALIBRATION VERIFICATION  
 CCAL ID: ST140915F1-1

Vista Analytical Laboratory  
 Initial Calibration Date: 07/01/2014  
 Instrument ID: VG-9  
 VER Data file name: 140915F1\_2

GC Column ID: DB-225  
 Analysis Date: 15-Sep-14 Analysis Time: 18:14:00

NATIVE ANALYTES	M/Z'S FORMING RATIO (1) M/M+2	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC.	CONC.	CONC.	CONC.
						RANGE (3) (ng/ml)	RANGE (3) (ng/ml)	RANGE (ng/ml)	RANGE (ng/ml)
2,3,7,8-TCDF		0.75	0.65-0.89	NO	9.22	1613 Min 8.4 8.6	1613 Max 12.0 11.6 (4)	Yes 8.00	8290 Max 12.0 Yes

- (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: CS  
 Date: 9/16/14

FORM 4B  
 PCDD/PCDF CALIBRATION VERIFICATION  
 CCAL ID: ST140915F1-1

Vista Analytical Laboratory  
 Initial Calibration Date: 07/01/2014  
 Instrument ID: VG-9  
 VER Data file name: 140915F1\_2

GC Column ID: DB-225  
 Analysis Date: 15-Sep-14      Analysis Time: 18:14:00

Labeled Compounds	M/Z'S FORMING RATIO (1)	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC. RANGE (3)	CONC. RANGE (3)	CONC. RANGE (ng/ml)	CONC. RANGE (ng/ml)	Yes	
						1613 Min	1613 Max	8290 Min	8290 Max		
13C-2,3,7,8-TCDF	M/M+2	0.75	0.65-0.89	NO	107	71.0 76.0	140.0 131.0 (5)	Yes	70.0	130.0	Yes

- (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) No ion abundance ratio; report concentration found
- (5) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only

Analyst:     CJ      
 Date:     9/16/14

Dataset: C:\MassLynx\Default.pro\Results\140915F1\10915F1\_2.qld

Last Altered: Tuesday, September 16, 2014 08:55:41 Pacific Daylight Time

Printed: Tuesday, September 16, 2014 08:57:00 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 16 Sep 2014 07:41:43

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225\_1613TCDFvg9-7-1-14.cdb 02 Jul 2014 07:18:51

Name: 140915F1\_2, Date: 15-Sep-2014, Time: 18:14:00, ID: ST140915F1-1 1613 CS3 14F1201, Description: 1613 CS3 14F1201

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DE
1	2,3,7,8-TCDF	1.74e4	0.75	NO	0.916	1.000	17.69	9.2218	92.2	0.159
2	13C-2,3,7,8-TCDF	2.06e5	0.75	NO	0.987	1.000	17.68	106.54	107	0.430
3	13C-1,2,3,4-TCDF	1.96e5	0.78	NO	1.00	1.000	15.38	100.00	100	0.424

CS 9/16/14

Dataset: Untitled

Last Altered: Tuesday, September 16, 2014 09:00:59 Pacific Daylight Time

Printed: Tuesday, September 16, 2014 09:01:07 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 16 Sep 2014 07:41:43

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225\_1613TCDFvg9-7-1-14.cdb 02 Jul 2014 07:18:51

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	140915F1_1	CP140915F1-1 DB-225 CPSM	15-Sep-14	17:43:43
2	140915F1_2	ST140915F1-1 1613 CS3 14F1201	15-Sep-14	18:14:00
3	140915F1_3	SOLVENT BLANK	15-Sep-14	18:45:48
4	140915F1_4	1400647-04RE2 CS-CB-01-20140903-S CF 1...	15-Sep-14	19:17:35
5	140915F1_5	SOLVENT BLANK	15-Sep-14	19:49:23
6	140915F1_6	1400634-01RE1 FC-8.14 CF 8.56	15-Sep-14	20:21:10
7	140915F1_7	ST140915F1-2 1613 CS3 14F1201	15-Sep-14	20:52:57

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140915F1-1

End Calibration ID: ST140915F1-2

	<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 type="checkbox"/> N/A	<input type="checkbox"/> N/A
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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 type="checkbox"/> y	<input type="checkbox"/> n

P 9/16/14

Reviewed by: \_\_\_\_\_  
*Initials & Date*

	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? <ul style="list-style-type: none"> <li>▪ Method 1614 &gt; 5,000; CARB 429 &gt; 8,000</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A
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 type="checkbox"/> N/A
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

*Comments:*

\* Ending standard criteria applicable to 8290 only.

Lab Name: Vista Analytical Laboratory      Lab ID: ST140910E2-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140910E2    S#1    Analysis Date: 11-SEP-14 Time: 00:01:26

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	2.96	2.66-3.60	y	49.2	37.5-62.5	PCB-52/69	0.75	0.65-0.89	y	104.0	75.0-125
PCB-2	2.95	2.66-3.60	y	50.4	37.5-62.5	PCB-73	0.75	0.65-0.89	y	56.9	37.5-62.5
PCB-3	2.95	2.66-3.60	y	49.2	37.5-62.5	PCB-43/49	0.76	0.65-0.89	y	102.4	75.0-125
PCB-4/10	1.62	1.33-1.79	y	228.0	150-250	PCB-47	0.74	0.65-0.89	y	53.4	37.5-62.5
PCB-7/9	1.63	1.33-1.79	y	218.5	150-250	PCB-48/75	0.75	0.65-0.89	y	107.0	75.0-125
PCB-6	1.63	1.33-1.79	y	106.1	75.0-125	PCB-65	0.75	0.65-0.89	y	51.8	37.5-62.5
PCB-5/8	1.63	1.33-1.79	y	222.3	150-250	PCB-62	0.76	0.65-0.89	y	57.3	37.5-62.5
PCB-14	1.63	1.33-1.79	y	109.8	75.0-125	PCB-44	0.75	0.65-0.89	y	54.7	37.5-62.5
PCB-11	1.65	1.33-1.79	y	108.9	75.0-125	PCB-42/59	0.75	0.65-0.89	y	109.2	75.0-125
PCB-12/13	1.62	1.33-1.79	y	220.4	150-250	PCB-41/64/71/72	0.75	0.65-0.89	y	205.4	150-250
PCB-15	1.65	1.33-1.79	y	107.7	75.0-125	PCB-68	0.74	0.65-0.89	y	51.2	37.5-62.5
PCB-19	1.09	0.88-1.20	y	54.5	37.5-62.5	PCB-40	0.74	0.65-0.89	y	51.1	37.5-62.5
PCB-30	1.08	0.88-1.20	y	56.6	37.5-62.5	PCB-57	0.75	0.65-0.89	y	53.8	37.5-62.5
PCB-18	1.08	0.88-1.20	y	55.7	37.5-62.5	PCB-67	0.76	0.65-0.89	y	53.6	37.5-62.5
PCB-17	1.07	0.88-1.20	y	55.7	37.5-62.5	PCB-58	0.75	0.65-0.89	y	53.2	37.5-62.5
PCB-24/27	1.08	0.88-1.20	y	115.3	75.0-125	PCB-63	0.75	0.65-0.89	y	53.5	37.5-62.5
PCB-16/32	1.07	0.88-1.20	y	111.5	75.0-125	PCB-74	0.75	0.65-0.89	y	53.4	37.5-62.5
PCB-34	1.03	0.88-1.20	y	54.8	37.5-62.5	PCB-61/70	0.75	0.65-0.89	y	104.2	75.0-125
PCB-23	1.04	0.88-1.20	y	58.5	37.5-62.5	PCB-76/66	0.75	0.65-0.89	y	106.0	75.0-125
PCB-29	1.04	0.88-1.20	y	52.9	37.5-62.5	PCB-80	0.76	0.65-0.89	y	53.3	37.5-62.5
PCB-26	1.03	0.88-1.20	y	53.4	37.5-62.5	PCB-55	0.75	0.65-0.89	y	55.3	37.5-62.5
PCB-25	1.05	0.88-1.20	y	53.7	37.5-62.5	PCB-56/60	0.75	0.65-0.89	y	106.1	75.0-125
PCB-31	1.01	0.88-1.20	y	48.2	37.5-62.5	PCB-79	0.76	0.65-0.89	y	54.9	37.5-62.5
PCB-28	1.02	0.88-1.20	y	51.9	37.5-62.5	PCB-78	0.76	0.65-0.89	y	54.2	37.5-62.5
PCB-20/21/33	1.02	0.88-1.20	y	143.9	112.5-225	PCB-81	0.76	0.65-0.89	y	53.8	37.5-62.5
PCB-22	1.02	0.88-1.20	y	53.9	37.5-62.5	PCB-77	0.78	0.65-0.89	y	55.3	37.5-62.5
PCB-36	1.02	0.88-1.20	y	45.5	37.5-62.5	PCB-104	1.57	1.32-1.78	y	56.1	37.5-62.5
PCB-39	1.03	0.88-1.20	y	46.8	37.5-62.5	PCB-96	1.58	1.32-1.78	y	55.2	37.5-62.5
PCB-38	1.03	0.88-1.20	y	50.6	37.5-62.5	PCB-103	1.58	1.32-1.78	y	54.9	37.5-62.5
PCB-35	1.01	0.88-1.20	y	49.0	37.5-62.5	PCB-100	1.59	1.32-1.78	y	53.7	37.5-62.5
PCB-37	1.04	0.88-1.20	y	48.9	37.5-62.5	PCB-94	1.58	1.32-1.78	y	55.9	37.5-62.5
PCB-54	0.74	0.65-0.89	y	52.2	37.5-62.5	PCB-95/98/102	1.56	1.32-1.78	y	170.4	112.5-225
PCB-50	0.75	0.65-0.89	y	47.7	37.5-62.5	PCB-93	1.62	1.32-1.78	y	49.2	37.5-62.5
PCB-53	0.74	0.65-0.89	y	51.5	37.5-62.5	PCB-88/91	1.57	1.32-1.78	y	120.5	75.0-125
PCB-51	0.74	0.65-0.89	y	54.0	37.5-62.5	PCB-121	1.62	1.32-1.78	y	48.8	37.5-62.5
PCB-45	0.74	0.65-0.89	y	54.2	37.5-62.5						
PCB-46	0.74	0.65-0.89	y	50.9	37.5-62.5						

Analyst: DMS

Date: 9/11/14

Lab Name: Vista Analytical Laboratory      Lab ID: ST140910E2-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140910E2    S#1    Analysis Date: 11-SEP-14 Time: 00:01:26

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	1.57	1.32-1.78	y	111.9	75.0-125	PCB-140	1.28	1.05-1.43	y	50.0	37.5-62.5
PCB-89	1.59	1.32-1.78	y	57.3	37.5-62.5	PCB-134/143	1.24	1.05-1.43	y	107.2	75.0-125
PCB-90/101	1.60	1.32-1.78	y	111.6	75.0-125	PCB-133/142	1.23	1.05-1.43	y	102.4	75.0-125
PCB-113	1.57	1.32-1.78	y	55.3	37.5-62.5	PCB-131	1.25	1.05-1.43	y	52.8	37.5-62.5
PCB-99	1.61	1.32-1.78	y	57.2	37.5-62.5	PCB-146/165	1.25	1.05-1.43	y	103.8	75.0-125
PCB-119	1.58	1.32-1.78	y	56.4	37.5-62.5	PCB-132/161	1.25	1.05-1.43	y	103.5	75.0-125
PCB-108/112	1.57	1.32-1.78	y	112.9	75.0-125	PCB-153	1.24	1.05-1.43	y	55.5	37.5-62.5
PCB-83	1.59	1.32-1.78	y	57.3	37.5-62.5	PCB-168	1.26	1.05-1.43	y	51.8	37.5-62.5
PCB-97	1.59	1.32-1.78	y	55.9	37.5-62.5	PCB-141	1.25	1.05-1.43	y	52.5	37.5-62.5
PCB-86	1.57	1.32-1.78	y	59.1	37.5-62.5	PCB-137	1.24	1.05-1.43	y	52.0	37.5-62.5
PCB-87/117/125	1.57	1.32-1.78	y	164.5	112.5-225	PCB-130	1.29	1.05-1.43	y	53.0	37.5-62.5
PCB-111/115	1.58	1.32-1.78	y	105.7	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	162.7	112.5-225
PCB-85/116	1.60	1.32-1.78	y	112.7	75.0-125	PCB-158/160	1.25	1.05-1.43	y	109.2	75.0-125
PCB-120	1.65	1.32-1.78	y	53.8	37.5-62.5	PCB-129	1.23	1.05-1.43	y	53.8	37.5-62.5
PCB-110	1.52	1.32-1.78	y	54.2	37.5-62.5	PCB-166	1.24	1.05-1.43	y	54.9	37.5-62.5
PCB-82	1.56	1.32-1.78	y	57.0	37.5-62.5	PCB-169	1.25	1.05-1.43	y	54.4	37.5-62.5
PCB-124	1.57	1.32-1.78	y	56.4	37.5-62.5	PCB-188	1.07	0.89-1.21	y	55.3	37.5-62.5
PCB-107/109	1.61	1.32-1.78	y	114.8	75.0-125	PCB-159	1.24	1.05-1.43	y	52.3	37.5-62.5
PCB-123	1.55	1.32-1.78	y	55.9	37.5-62.5	PCB-128/162	1.23	1.05-1.43	y	108.1	75.0-125
PCB-106/118	1.59	1.32-1.78	y	112.1	75.0-125	PCB-167	1.25	1.05-1.43	y	54.0	37.5-62.5
PCB-114	1.60	1.32-1.78	y	55.4	37.5-62.5	PCB-156	1.23	1.05-1.43	y	53.4	37.5-62.5
PCB-122	1.64	1.32-1.78	y	54.5	37.5-62.5	PCB-157	1.25	1.05-1.43	y	53.3	37.5-62.5
PCB-105	1.63	1.32-1.78	y	55.6	37.5-62.5	PCB-169	1.25	1.05-1.43	y	54.4	37.5-62.5
PCB-127	1.63	1.32-1.78	y	54.2	37.5-62.5	PCB-188	1.07	0.89-1.21	y	55.3	37.5-62.5
PCB-126	1.65	1.32-1.78	y	55.4	37.5-62.5	PCB-184	1.08	0.89-1.21	y	56.4	37.5-62.5
PCB-155	1.27	1.05-1.43	y	56.1	37.5-62.5	PCB-179	1.06	0.89-1.21	y	54.8	37.5-62.5
PCB-150	1.28	1.05-1.43	y	55.3	37.5-62.5	PCB-176	1.07	0.89-1.21	y	54.0	37.5-62.5
PCB-152	1.25	1.05-1.43	y	53.6	37.5-62.5	PCB-186	1.07	0.89-1.21	y	55.6	37.5-62.5
PCB-145	1.28	1.05-1.43	y	52.8	37.5-62.5	PCB-178	1.06	0.89-1.21	y	53.8	37.5-62.5
PCB-136	1.27	1.05-1.43	y	50.9	37.5-62.5	PCB-175	1.06	0.89-1.21	y	53.0	37.5-62.5
PCB-148	1.28	1.05-1.43	y	56.4	37.5-62.5	PCB-182/187	1.06	0.89-1.21	y	110.0	75.0-125
PCB-154	1.30	1.05-1.43	y	51.6	37.5-62.5	PCB-183	1.07	0.89-1.21	y	53.0	37.5-62.5
PCB-151	1.29	1.05-1.43	y	49.4	37.5-62.5	PCB-185	1.08	0.89-1.21	y	58.0	37.5-62.5
PCB-135	1.26	1.05-1.43	y	47.8	37.5-62.5	PCB-174	1.07	0.89-1.21	y	54.4	37.5-62.5
PCB-144	1.36	1.05-1.43	y	52.2	37.5-62.5	PCB-181	1.06	0.89-1.21	y	61.6	37.5-62.5
PCB-147	1.23	1.05-1.43	y	49.1	37.5-62.5	PCB-177	1.06	0.89-1.21	y	57.4	37.5-62.5
PCB-139/149	1.28	1.05-1.43	y	101.0	75.0-125	PCB-171	1.08	0.89-1.21	y	57.4	37.5-62.5
						PCB-173	1.05	0.89-1.21	y	57.0	37.5-62.5
						PCB-172	1.06	0.89-1.21	y	55.8	37.5-62.5

Analyst: *Dms*

Date: *9/11/14*



NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140910E2-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140910E2    S#1    Analysis Date: 11-SEP-14 Time: 00:01:26

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO			(ng/mL)	
PCB-192	1.07	0.89-1.21	y	56.0	37.5-62.5
PCB-180	1.03	0.89-1.21	y	53.8	37.5-62.5
PCB-193	1.06	0.89-1.21	y	54.3	37.5-62.5
PCB-191	1.07	0.89-1.21	y	53.9	37.5-62.5
PCB-170	1.04	0.89-1.21	y	55.0	37.5-62.5
PCB-190	1.04	0.89-1.21	y	54.9	37.5-62.5
PCB-189	1.07	0.89-1.21	y	56.2	37.5-62.5
PCB-202	0.92	0.76-1.02	y	53.4	37.5-62.5
PCB-201	0.93	0.76-1.02	y	52.3	37.5-62.5
PCB-204	0.93	0.76-1.02	y	52.9	37.5-62.5
PCB-197	0.90	0.76-1.02	y	52.0	37.5-62.5
PCB-200	0.91	0.76-1.02	y	53.4	37.5-62.5
PCB-198	0.94	0.76-1.02	y	46.9	37.5-62.5
PCB-199	0.92	0.76-1.02	y	50.2	37.5-62.5
PCB-196/203	0.91	0.76-1.02	y	97.9	75.0-125
PCB-195	0.92	0.76-1.02	y	57.5	37.5-62.5
PCB-194	0.92	0.76-1.02	y	52.8	37.5-62.5
PCB-205	0.95	0.76-1.02	y	58.8	37.5-62.5
PCB-208	1.31	1.14-1.54	y	51.4	37.5-62.5
PCB-207	1.30	1.14-1.54	y	50.1	37.5-62.5
PCB-206	1.32	1.14-1.54	y	51.9	37.5-62.5
PCB-209	1.21	0.99-1.33	y	55.4	37.5-62.5

Analyst: *DMS*

Date: *9/11/14*

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140910E2-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140910E2    S#1    Analysis Date: 11-SEP-14 Time: 00:01:26

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	3.37	2.66-3.60	y	104.3	50.0-145	13C-PCB-169	1.29	1.05-1.43	y	87.2	50 - 145
13C-PCB-3	3.42	2.66-3.60	y	97.8	50.0-145	13C-PCB-188	0.47	0.38-0.52	y	88.8	50 - 145
13C-PCB-4	1.62	1.33-1.79	y	97.1	50.0-145	13C-PCB-180	0.48	0.38-0.52	y	78.6	50 - 145
13C-PCB-9	1.62	1.33-1.79	y	100.9	50.0-145	13C-PCB-170	0.47	0.38-0.52	y	77.4	50 - 145
13C-PCB-11	1.60	1.33-1.79	y	99.1	50.0-145	13C-PCB-189	0.45	0.38-0.52	y	72.8	50 - 145
13C-PCB-19	1.12	0.88-1.20	y	81.1	50.0-145	13C-PCB-202	0.93	0.76-1.02	y	69.8	50 - 145
13C-PCB-32	1.14	0.88-1.20	y	81.4	50.0-145	13C-PCB-194	0.92	0.76-1.02	y	91.6	50 - 145
13C-PCB-28	1.00	0.88-1.20	y	94.3	50.0-145	13C-PCB-208	0.78	0.65-0.89	y	99.3	50 - 145
13C-PCB-37	1.03	0.88-1.20	y	102.0	50.0-145	13C-PCB-206	0.79	0.65-0.89	y	106.7	50 - 145
13C-PCB-54	0.80	0.65-0.89	y	111.9	50.0-145	13C-PCB-209	1.20	0.99-1.33	y	117.2	50 - 145
13C-PCB-52	0.78	0.65-0.89	y	102.7	50.0-145						
13C-PCB-47	0.77	0.65-0.89	y	99.8	50.0-145						
13C-PCB-70	0.78	0.65-0.89	y	97.0	50.0-145						
13C-PCB-80	0.79	0.65-0.89	y	97.0	50.0-145						
13C-PCB-81	0.77	0.65-0.89	y	97.2	50.0-145						
13C-PCB-77	0.78	0.65-0.89	y	93.6	50.0-145						
13C-PCB-104	1.62	1.32-1.78	y	106.6	50.0-145						
13C-PCB-95	1.65	1.32-1.78	y	102.6	50.0-145						
13C-PCB-101	1.67	1.32-1.78	y	102.5	50.0-145	CRS vs. RS					
13C-PCB-97	1.60	1.32-1.78	y	101.5	50.0-145						
13C-PCB-123	1.65	1.32-1.78	y	92.2	50.0-145	13C-PCB-79	0.78	0.65-0.89	y	108.5	75 - 125
13C-PCB-118	1.63	1.32-1.78	y	93.8	50.0-145	13C-PCB-178	0.47	0.38-0.52	y	95.3	75 - 125
13C-PCB-114	1.59	1.32-1.78	y	113.3	50.0-145						
13C-PCB-105	1.59	1.32-1.78	y	112.9	50.0-145						
13C-PCB-127	1.58	1.32-1.78	y	110.9	50.0-145						
13C-PCB-126	1.59	1.32-1.78	y	108.9	50.0-145						
13C-PCB-155	1.31	1.05-1.43	y	81.0	50.0-145						
13C-PCB-153	1.30	1.05-1.43	y	104.5	50.0-145						
13C-PCB-141	1.28	1.05-1.43	y	103.4	50.0-145						
13C-PCB-138	1.27	1.05-1.43	y	101.7	50.0-145						
13C-PCB-159	1.31	1.05-1.43	y	98.9	50.0-145						
13C-PCB-167	1.28	1.05-1.43	y	96.0	50.0-145						
13C-PCB-156	1.28	1.05-1.43	y	93.8	50.0-145						
13C-PCB-157	1.31	1.05-1.43	y	94.1	50.0-145						

Analyst: *DMS*

Date: *9/11/14*

Client ID: PCB CS3 14F1901  
Lab ID: ST140910E2-1

Filename: 140910E2 S:1 Acq:11-SEP-14 00:01:26  
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	1.34e+08	2.96 y	1.25	16:11	1.001	0.996-1.006	49.1765		PCB-52/69	1.43e+08	0.75 y	1.28	31:19	1.001	0.996-1.006	104.037	
PCB-2	1.26e+08	2.95 y	1.18	18:30	0.988	0.983-0.993	50.3750		PCB-73	8.41e+07	0.75 y	1.37	31:26	1.005	1.000-1.010	56.8536	
PCB-3	1.27e+08	2.95 y	1.22	18:44	1.001	0.996-1.006	49.2472		PCB-43/49	1.23e+08	0.76 y	1.11	31:36	1.010	1.005-1.015	102.445	
PCB-4/10	4.40e+08	1.62 y	1.55	20:05	1.003	0.998-1.008	227.961		PCB-47	6.66e+07	0.74 y	1.13	31:48	1.001	0.996-1.006	53.4431	
PCB-7/9	5.40e+08	1.63 y	1.27	21:49	0.869	0.865-0.873	218.521		PCB-48/75	1.53e+08	0.75 y	1.30	31:55	1.004	0.999-1.009	106.965	
PCB-6	2.60e+08	1.63 y	1.26	22:27	0.895	0.890-0.899	106.098		PCB-65	7.61e+07	0.75 y	1.33	32:11	1.013	1.007-1.017	51.8342	
PCB-5/8	5.34e+08	1.63 y	1.23	22:52	0.911	0.906-0.916	222.309		PCB-62	8.15e+07	0.76 y	1.29	32:17	1.016	1.011-1.021	57.3247	
PCB-14	2.94e+08	1.63 y	1.23	23:56	0.954	0.949-0.959	109.844		PCB-44	5.65e+07	0.75 y	0.94	32:36	1.026	1.020-1.030	54.6778	
PCB-11	2.74e+08	1.65 y	1.16	25:06	1.000	0.996-1.006	108.918		PCB-42/59	1.46e+08	0.75 y	1.22	32:49	1.033	1.028-1.038	109.150	
PCB-12/13	5.26e+08	1.62 y	1.10	25:30	1.016	1.010-1.020	220.361		PCB-41/64/71/72	2.97e+08	0.75 y	1.31	33:24	1.051	1.046-1.056	205.438	
PCB-15	2.82e+08	1.65 y	1.21	25:48	1.028	1.024-1.034	107.659		PCB-68	8.37e+07	0.74 y	1.49	33:39	1.059	1.054-1.064	51.1940	
PCB-19	7.12e+07	1.09 y	1.30	24:07	1.001	0.996-1.006	54.4986		PCB-40	4.60e+07	0.74 y	0.82	33:53	1.066	1.061-1.071	51.1129	
PCB-30	1.04e+08	1.08 y	1.83	24:59	1.037	1.032-1.042	56.5533		PCB-57	8.14e+07	0.75 y	1.11	34:13	0.970	0.965-0.975	53.8233	
PCB-18	7.40e+07	1.08 y	0.86	25:44	0.954	0.949-0.959	55.6563		PCB-67	7.82e+07	0.76 y	1.07	34:31	0.979	0.974-0.984	53.6175	
PCB-17	7.76e+07	1.07 y	0.90	25:54	0.961	0.955-0.965	55.6986		PCB-58	7.95e+07	0.75 y	1.10	34:38	0.982	0.977-0.987	53.1668	
PCB-24/27	2.10e+08	1.08 y	1.18	26:28	0.982	0.976-0.986	115.280		PCB-63	8.11e+07	0.75 y	1.12	34:47	0.987	0.982-0.992	53.4506	
PCB-16/32	1.78e+08	1.07 y	1.03	26:58	1.000	0.995-1.005	111.535		PCB-74	8.73e+07	0.75 y	1.20	35:04	0.995	0.990-1.000	53.4123	
PCB-34	8.98e+07	1.03 y	1.26	27:45	0.960	0.956-0.966	54.8030		PCB-61/70	1.53e+08	0.75 y	1.08	35:15	1.000	0.994-1.004	104.208	
PCB-23	9.97e+07	1.04 y	1.31	27:50	0.963	0.959-0.969	58.4676		PCB-76/66	1.64e+08	0.75 y	1.14	35:28	1.006	1.001-1.011	106.015	
PCB-29	9.14e+07	1.04 y	1.33	28:05	0.972	0.967-0.977	52.8980		PCB-80	9.41e+07	0.76 y	1.28	35:42	1.001	0.996-1.006	53.2788	
PCB-26	8.97e+07	1.03 y	1.29	28:18	0.979	0.974-0.984	53.4178		PCB-55	8.49e+07	0.75 y	1.11	36:01	1.010	1.005-1.015	55.3272	
PCB-25	9.37e+07	1.05 y	1.34	28:28	0.985	0.980-0.990	53.6871		PCB-56/60	1.60e+08	0.75 y	1.09	36:31	1.023	1.018-1.028	106.150	
PCB-31	8.89e+07	1.01 y	1.42	28:48	0.997	0.992-1.002	48.1792		PCB-79	8.54e+07	0.76 y	1.12	37:34	1.053	1.048-1.058	54.9256	
PCB-28	9.30e+07	1.02 y	1.38	28:55	1.001	0.996-1.006	51.9283		PCB-78	8.09e+07	0.76 y	1.24	38:16	0.987	0.982-0.992	54.1677	
PCB-20/21/33	2.45e+08	1.02 y	1.31	29:31	1.021	1.017-1.027	143.948		PCB-81	8.98e+07	0.76 y	1.38	38:47	1.000	0.995-1.005	53.8454	
PCB-22	9.27e+07	1.02 y	1.32	29:58	1.037	1.032-1.042	53.9281		PCB-77	8.28e+07	0.78 y	1.21	39:23	1.000	0.995-1.005	55.3126	
PCB-36	8.24e+07	1.02 y	1.38	30:34	0.934	0.929-0.939	45.4750		PCB-104	5.80e+07	1.57 y	1.26	32:26	1.000	0.996-1.006	56.1205	
PCB-39	8.74e+07	1.03 y	1.42	31:01	0.947	0.943-0.953	46.7864		PCB-96	4.95e+07	1.58 y	1.09	33:43	1.040	1.034-1.044	55.2458	
PCB-38	9.02e+07	1.03 y	1.35	31:48	0.971	0.967-0.976	50.5950		PCB-103	4.21e+07	1.58 y	0.93	34:13	1.055	1.050-1.060	54.9138	
PCB-35	8.87e+07	1.01 y	1.38	32:19	0.987	0.982-0.992	48.9870		PCB-100	4.42e+07	1.59 y	1.00	34:35	1.066	1.061-1.071	53.7023	
PCB-37	8.96e+07	1.04 y	1.39	32:45	1.000	0.996-1.006	48.9120		PCB-94	3.66e+07	1.58 y	1.11	35:03	0.985	0.981-0.991	55.9295	
PCB-54	8.80e+07	0.74 y	1.20	27:49	1.001	0.996-1.006	52.1558		PCB-95/98/102	1.22e+08	1.56 y	1.21	35:32	0.999	0.994-1.004	170.357	
PCB-50	6.50e+07	0.75 y	0.97	28:57	1.042	1.037-1.047	47.7398		PCB-93	3.28e+07	1.62 y	1.13	35:41	1.003	0.998-1.008	49.1682	
PCB-53	6.60e+07	0.74 y	1.19	29:36	0.946	0.941-0.951	51.5202		PCB-88/91	7.26e+07	1.57 y	1.02	35:57	1.011	1.006-1.016	120.515	
PCB-51	6.72e+07	0.74 y	1.15	29:56	0.957	0.952-0.962	54.0485		PCB-121	5.49e+07	1.62 y	1.90	36:04	1.014	1.009-1.019	48.8152	
PCB-45	5.64e+07	0.74 y	0.97	30:22	0.971	0.966-0.976	54.1970		PCB-84/92	7.33e+07	1.57 y	1.05	36:52	0.990	0.986-0.996	111.934	
PCB-46	5.22e+07	0.74 y	0.95	30:51	0.986	0.982-0.992	50.9082		PCB-89	3.63e+07	1.59 y	1.02	37:04	0.996	0.991-1.001	57.3200	

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations  
by

Analyst: *DMS*

Date: *9/11/14*

Reviewed  
by

Analyst: \_\_\_\_\_

Date: \_\_\_\_\_

Client ID: PCB CS3 14F1901  
Lab ID: ST140910E2-1

Filename: 140910E2 S:1 Acq:11-SEP-14 00:01:26  
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	8.28e+07	1.60 y	1.19	37:14	1.000	0.996-1.006	111.606		PCB-133/142	8.90e+07	1.23 y	0.95	42:09	0.982	0.977-0.987	102.410	
PCB-113	4.66e+07	1.57 y	1.35	37:29	1.007	1.002-1.012	55.3431		PCB-131	4.44e+07	1.25 y	0.91	42:19	0.986	0.981-0.991	52.8257	
PCB-99	4.59e+07	1.61 y	1.29	37:34	1.009	1.005-1.015	57.1516		PCB-146/165	1.10e+08	1.25 y	1.16	42:32	0.991	0.986-0.996	103.808	
PCB-119	5.26e+07	1.58 y	1.72	38:02	0.987	0.982-0.992	56.4001		PCB-132/161	1.06e+08	1.25 y	1.11	42:47	0.997	0.992-1.002	103.541	
PCB-108/112	7.87e+07	1.57 y	1.29	38:12	0.991	0.986-0.996	112.855		PCB-153	6.01e+07	1.24 y	1.18	42:56	1.000	0.995-1.005	55.4775	
PCB-83	4.71e+07	1.59 y	1.52	38:21	0.995	0.991-1.001	57.2640		PCB-168	6.52e+07	1.26 y	1.37	43:09	1.005	1.000-1.010	51.8097	
PCB-97	3.78e+07	1.59 y	1.25	38:34	1.001	0.996-1.006	55.9360		PCB-141	4.48e+07	1.25 y	0.97	43:41	1.000	0.996-1.005	52.4820	
PCB-86	3.27e+07	1.57 y	1.02	38:41	1.004	1.000-1.010	59.0922		PCB-137	4.88e+07	1.24 y	1.07	44:03	1.009	1.004-1.014	51.9513	
B-87/117/125	1.39e+08	1.57 y	1.56	38:49	1.007	1.002-1.012	164.518		PCB-130	3.94e+07	1.29 y	0.85	44:10	1.011	1.007-1.017	53.0477	
PCB-111/115	1.00e+08	1.58 y	1.75	38:59	1.012	1.007-1.017	105.731		PCB-138/163/164	1.67e+08	1.24 y	1.23	44:32	1.001	0.996-1.006	162.682	
PCB-85/116	7.95e+07	1.60 y	1.30	39:06	1.015	1.010-1.020	112.706		PCB-158/160	1.18e+08	1.25 y	1.29	44:47	1.006	1.001-1.011	109.170	
PCB-120	5.19e+07	1.65 y	1.78	39:20	1.021	1.016-1.026	53.7579		PCB-129	4.17e+07	1.23 y	0.92	45:01	1.011	1.007-1.017	53.7977	
PCB-110	4.93e+07	1.52 y	1.68	39:29	1.025	1.020-1.030	54.1973		PCB-166	5.74e+07	1.24 y	1.12	45:29	0.993	0.988-0.998	54.8826	
PCB-82	2.85e+07	1.56 y	0.74	40:07	0.977	0.972-0.982	56.9870		PCB-159	5.71e+07	1.24 y	1.16	45:48	1.000	0.995-1.005	52.2774	
PCB-124	5.05e+07	1.57 y	1.32	40:46	0.992	0.988-0.998	56.3833		PCB-128/162	1.03e+08	1.23 y	1.02	46:06	1.007	1.002-1.012	108.119	
PCB-107/109	9.50e+07	1.61 y	1.22	40:56	0.996	0.991-1.001	114.781		PCB-167	5.75e+07	1.25 y	1.06	46:29	1.000	0.995-1.005	53.9962	
PCB-123	4.61e+07	1.55 y	1.22	41:06	1.001	0.995-1.005	55.8656		PCB-156	5.83e+07	1.23 y	1.18	47:46	1.000	0.995-1.005	53.4387	
PCB-106/118	9.82e+07	1.59 y	1.22	41:18	1.001	0.996-1.006	112.128		PCB-157	5.64e+07	1.25 y	1.08	48:02	1.000	0.995-1.005	53.3243	
PCB-114	8.12e+07	1.60 y	1.36	41:56	1.000	0.995-1.005	55.3648		PCB-169	5.06e+07	1.25 y	1.11	50:11	1.000	0.995-1.005	54.4497	
PCB-122	7.30e+07	1.64 y	1.24	42:04	1.004	0.999-1.009	54.5383		PCB-188	5.10e+07	1.07 y	1.40	42:35	1.001	0.995-1.005	55.2595	
PCB-105	7.89e+07	1.63 y	1.28	42:48	1.001	0.995-1.005	55.5835		PCB-184	4.59e+07	1.08 y	1.24	43:02	1.011	1.006-1.016	56.3902	
PCB-127	7.27e+07	1.63 y	1.14	43:08	1.001	0.995-1.005	54.1699		PCB-179	4.70e+07	1.06 y	1.30	43:49	1.029	1.024-1.034	54.8016	
PCB-126	7.13e+07	1.65 y	1.28	45:01	1.000	0.995-1.005	55.4226		PCB-176	4.84e+07	1.07 y	1.36	44:16	1.040	1.035-1.045	54.0468	
PCB-155	3.33e+07	1.27 y	1.14	36:48	1.001	0.966-1.006	56.1053		PCB-186	4.67e+07	1.07 y	1.28	44:53	1.054	1.049-1.059	55.6351	
PCB-150	3.07e+07	1.28 y	1.06	38:04	1.035	1.030-1.040	55.2754		PCB-178	3.31e+07	1.06 y	0.94	45:22	1.066	1.061-1.071	53.7956	
PCB-152	3.07e+07	1.25 y	1.10	38:32	1.048	1.043-1.053	53.5713		PCB-175	3.37e+07	1.06 y	0.97	45:43	1.074	1.069-1.079	52.9627	
PCB-145	3.01e+07	1.28 y	1.09	38:59	1.060	1.055-1.065	52.7658		PCB-182/187	7.33e+07	1.06 y	1.01	45:53	1.078	1.073-1.083	109.957	
PCB-136	2.88e+07	1.27 y	1.08	39:18	1.068	1.064-1.074	50.8893		PCB-183	3.77e+07	1.07 y	1.08	46:11	1.085	1.080-1.090	52.9671	
PCB-148	2.18e+07	1.28 y	0.74	39:24	1.071	1.066-1.076	56.4492		PCB-185	3.26e+07	1.08 y	1.34	46:52	0.956	0.951-0.961	58.0461	
PCB-154	2.38e+07	1.30 y	0.88	39:53	1.084	1.079-1.089	51.5529		PCB-174	3.05e+07	1.07 y	1.34	47:13	0.963	0.958-0.968	54.4210	
PCB-151	2.09e+07	1.29 y	0.81	40:32	1.102	1.097-1.107	49.4453		PCB-181	3.51e+07	1.06 y	1.36	47:20	0.965	0.961-0.971	61.6204	
PCB-135	1.95e+07	1.26 y	0.78	40:44	1.108	1.101-1.113	47.8091		PCB-177	2.98e+07	1.06 y	1.24	47:30	0.969	0.964-0.974	57.3531	
PCB-144	2.23e+07	1.36 y	0.82	40:51	1.111	1.105-1.116	52.1903		PCB-171	3.15e+07	1.08 y	1.31	47:47	0.974	0.970-0.980	57.3719	
PCB-147	2.12e+07	1.23 y	0.83	40:59	1.114	1.011-1.120	49.1136		PCB-173	2.77e+07	1.05 y	1.16	48:13	0.983	0.979-0.989	57.0400	
PCB-139/149	4.45e+07	1.28 y	0.84	41:15	1.121	1.115-1.127	101.036		PCB-172	2.85e+07	1.06 y	1.22	48:39	0.992	0.988-0.998	55.7690	
PCB-140	2.05e+07	1.28 y	0.79	41:26	1.126	1.120-1.132	50.0119		PCB-192	3.58e+07	1.07 y	1.53	48:51	0.996	0.991-1.001	56.0264	
PCB-134/143	9.14e+07	1.24 y	0.93	41:51	0.975	0.970-0.980	107.174		PCB-180	3.22e+07	1.03 y	1.43	49:04	1.000	0.995-1.005	53.7916	

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: *Dms*

Date: *9/11/14*

Client ID: PCB CS3 14F1901  
Lab ID: ST140910E2-1

Filename: 140910E2 S:1 Acq:11-SEP-14 00:01:26  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000

ConCal: ST140910E2-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	3.76e+07	1.06 y	1.65	49:16	1.005	0.999-1.009		54.3215
PCB-191	3.77e+07	1.07 y	1.67	49:31	1.010	1.004-1.014		53.9096
PCB-170	2.70e+07	1.04 y	1.50	50:34	1.000	0.995-1.005		55.0018
PCB-190	3.63e+07	1.04 y	2.02	50:43	1.004	0.998-1.008		54.8851
PCB-189	3.57e+07	1.07 y	1.54	52:03	1.000	0.995-1.005		56.1715
PCB-202	2.55e+07	0.92 y	1.04	47:60	1.000	0.995-1.005		53.3740
PCB-201	2.65e+07	0.93 y	1.10	48:29	1.011	1.006-1.016		52.3358
PCB-204	2.41e+07	0.93 y	0.99	48:38	1.014	1.009-1.019		52.8724
PCB-197	2.56e+07	0.90 y	1.07	48:56	1.020	1.015-1.025		51.9605
PCB-200	2.50e+07	0.91 y	1.02	49:50	1.039	1.032-1.044		53.4214
PCB-198	1.60e+07	0.94 y	0.74	51:09	1.066	1.058-1.068		46.8828
PCB-199	1.68e+07	0.92 y	0.73	51:15	1.068	1.060-1.070		50.2500
- PCB-196/203	3.48e+07	0.91 y	0.77	51:31	1.074	1.066-1.076		97.8808
- PCB-195	3.73e+07	0.92 y	1.20	52:41	0.984	0.979-0.989		57.5377
PCB-194	3.56e+07	0.92 y	1.25	53:33	1.000	0.995-1.005		52.8212
PCB-205	4.49e+07	0.95 y	1.41	53:50	1.006	1.001-1.011		58.8140
PCB-208	4.01e+07	1.31 y	0.96	52:50	1.000	0.995-1.005		51.3654
PCB-207	3.73e+07	1.30 y	0.92	53:08	1.006	1.001-1.011		50.0614
PCB-206	2.73e+07	1.32 y	1.03	55:12	1.000	0.995-1.005		51.8744
PCB-209	3.41e+07	1.21 y	1.18	56:35	1.000	0.995-1.005		55.3685

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	3.87e+08	2.96 y	16:11	1.22	148.799
Total Di-PCB	3.15e+09	1.62 y	20:05	1.21	1323.56
Total Tri-PCB	7.15e+08	1.09 y	24:07	1.16	449.221
Total Tetra-PCB	1.49e+09	1.03 y	27:45	1.35	847.662
Total Penta-PCB	3.18e+09	0.74 y	27:49	1.17	2243.90
Total Penta-PCB	1.79e+09	1.57 y	32:26	1.21	2292.16
Total Penta-PCB	4.17e+08	1.60 y	41:56	1.26	304.425
Total Hexa-PCB	3.48e+08	1.27 y	36:48	0.92	726.216
Total Hexa-PCB	1.50e+09	1.24 y	41:51	1.08	1520.00
Total Hepta-PCB	8.87e+08	1.07 y	42:35	1.27	1349.63
Total Octa-PCB	1.94e+08	0.92 y	47:60	0.92	458.978
Total Octa-PCB	1.26e+08	0.92 y	52:41	1.29	180.437
Total Nona-PCB	1.07e+08	1.31 y	52:50	0.96	156.974
Total Deca-PCB	3.41e+07	1.21 y	56:35	1.18	55.3685

Total PCB Conc:11904.4983510

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: *DMJ*

Date: *9/11/14*

Client ID: PCB CS3 14F1901  
Lab ID: ST140910E2-1

Filename: 140910E2 S:1 Acq:11-SEP-14 00:01:26  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140910E2-1  
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	2.17e+08	3.37 y	0.89	16:10	0.627	0.622-0.628		104	104											
13C-PCB-3	2.12e+08	3.42 y	0.93	18:43	0.726	0.721-0.729		97.8	97.8		13C-PCB-79	1.62e+08	0.78 y	1.01	37:33	1.029	1.023-1.033		108	108
13C-PCB-4	1.24e+08	1.62 y	0.55	20:01	0.776	0.772-0.780		97.1	97.1		13C-PCB-178	4.76e+07	0.47 y	0.63	45:21	0.984	0.979-0.989		95.3	95.3
13C-PCB-9	1.95e+08	1.62 y	0.83	21:46	0.844	0.840-0.848		101	101											
13C-PCB-11	2.17e+08	1.60 y	0.94	25:05	0.973	0.968-0.978		99.1	99.1	PS vs. IS										
13C-PCB-19	1.01e+08	1.12 y	0.53	24:06	0.934	0.929-0.939		81.1	81.1											
13C-PCB-28	1.30e+08	1.00 y	0.89	28:54	1.004	0.999-1.009		94.3	94.3		13C-PCB-79	1.62e+08	0.78 y	1.20	37:33	0.969	0.963-0.973		112	112
13C-PCB-32	1.55e+08	1.14 y	0.81	26:58	1.045	1.041-1.051		81.4	81.4		13C-PCB-178	4.76e+07	0.47 y	0.94	45:21	0.925	0.920-0.930		121	121
13C-PCB-37	1.32e+08	1.03 y	0.83	32:44	1.137	1.131-1.143		102	102											
13C-PCB-47	1.10e+08	0.77 y	0.74	31:47	0.870	0.867-0.875		99.8	99.8											
13C-PCB-52	1.08e+08	0.78 y	0.71	31:17	0.857	0.853-0.861		103	103											
13C-PCB-54	1.41e+08	0.80 y	0.85	27:48	0.761	0.758-0.766		112	112											
13C-PCB-70	1.36e+08	0.78 y	0.94	35:16	0.966	0.961-0.971		97.0	97.0											
13C-PCB-77	1.24e+08	0.78 y	0.89	39:22	1.078	1.073-1.083		93.6	93.6											
13C-PCB-80	1.38e+08	0.79 y	0.96	35:41	0.977	0.972-0.982		97.0	97.0											
13C-PCB-81	1.21e+08	0.77 y	0.84	38:46	1.062	1.057-1.067		97.2	97.2											
13C-PCB-95	5.91e+07	1.65 y	0.74	35:34	0.913	0.908-0.918		103	103	RS										
13C-PCB-97	5.42e+07	1.60 y	0.69	38:32	0.989	0.984-0.994		101	101		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	6.23e+07	1.67 y	0.79	37:14	0.956	0.951-0.961		102	102		13C-PCB-15	2.34e+08	1.60 y	1.00	25:47	100				
13C-PCB-104	8.21e+07	1.62 y	1.00	32:26	0.833	0.829-0.837		107	107		13C-PCB-31	1.55e+08	1.01 y	1.00	28:47	100				
13C-PCB-105	1.11e+08	1.59 y	1.24	42:47	0.929	0.924-0.934		113	113		13C-PCB-60	1.48e+08	0.77 y	1.00	36:30	100				
13C-PCB-114	1.08e+08	1.59 y	1.21	41:55	0.910	0.905-0.915		113	113		13C-PCB-111	7.74e+07	1.63 y	1.00	38:57	100				
13C-PCB-118	7.15e+07	1.63 y	0.98	41:16	1.059	1.054-1.064		93.8	93.8		13C-PCB-128	7.91e+07	1.29 y	1.00	46:04	100				
13C-PCB-123	6.78e+07	1.65 y	0.95	41:05	1.054	1.049-1.059		92.2	92.2		13C-PCB-205	7.28e+07	0.91 y	1.00	53:49	100				
13C-PCB-126	1.00e+08	1.59 y	1.16	45:00	0.977	0.972-0.982		109	109											
13C-PCB-127	1.18e+08	1.58 y	1.34	43:06	0.936	0.931-0.941		111	111											
13C-PCB-138	8.39e+07	1.27 y	1.04	44:30	0.966	0.961-0.971		102	102											
13C-PCB-141	8.76e+07	1.28 y	1.07	43:40	0.948	0.943-0.953		103	103											
13C-PCB-153	9.20e+07	1.30 y	1.11	42:56	0.932	0.927-0.937		104	104											
13C-PCB-155	5.22e+07	1.31 y	0.83	36:47	0.944	0.939-0.949		81.0	81.0											
13C-PCB-156	9.23e+07	1.28 y	1.24	47:45	1.037	1.032-1.042		93.8	93.8											
13C-PCB-157	9.76e+07	1.31 y	1.31	48:01	1.042	1.037-1.047		94.1	94.1											
13C-PCB-159	9.38e+07	1.31 y	1.20	45:47	0.994	0.989-0.999		98.9	98.9											
13C-PCB-167	1.00e+08	1.28 y	1.32	46:28	1.009	1.004-1.014		96.0	96.0											
13C-PCB-169	8.38e+07	1.29 y	1.22	50:11	1.089	1.082-1.092		87.2	87.2											
13C-PCB-170	3.28e+07	0.47 y	0.54	50:32	1.097	1.089-1.101		77.4	77.4											
13C-PCB-180	4.19e+07	0.48 y	0.67	49:03	1.065	1.059-1.069		78.6	78.6											
13C-PCB-188	6.57e+07	0.47 y	0.94	42:34	0.924	0.919-0.929		88.8	88.8											
13C-PCB-189	4.12e+07	0.45 y	0.72	52:02	1.129	1.120-1.132		72.8	72.8											
13C-PCB-194	5.40e+07	0.92 y	0.81	53:32	0.995	0.990-1.000		91.6	91.6											
13C-PCB-202	4.59e+07	0.93 y	0.83	47:58	1.041	1.036-1.046		69.8	69.8											
13C-PCB-206	5.11e+07	0.79 y	0.66	55:11	1.025	1.021-1.031		107	107											
13C-PCB-208	8.12e+07	0.78 y	1.12	52:49	0.981	0.976-0.986		99.3	99.3											
13C-PCB-209	5.24e+07	1.20 y	0.61	56:34	1.051	1.044-1.054		117	117											

Analyst: *DMS*

Date: *9/11/14*

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140910E2	1	ST140910E2-1	DMS	11-SEP-14	00:01:26	ST140910E2-1	NA
140910E2	2	B4I0025-BS1	DMS	11-SEP-14	01:05:26	ST140910E2-1	NA
140910E2	3	SOLVENT BLANK	DMS	11-SEP-14	02:09:29	ST140910E2-1	NA
140910E2	4	B4I0025-BLK1	DMS	11-SEP-14	03:13:30	ST140910E2-1	NA
140910E2	5	1400647-01	DMS	11-SEP-14	04:17:36	ST140910E2-1	NA
140910E2	6	1400647-02	DMS	11-SEP-14	05:21:42	ST140910E2-1	NA
140910E2	7	1400647-03	DMS	11-SEP-14	06:25:44	ST140910E2-1	NA
140910E2	8	SOLVENT BLANK	DMS	11-SEP-14	07:29:51	ST140910E2-1	NA
140910E2	9	SOLVENT BLANK	DMS	11-SEP-14	08:34:00	ST140910E2-1	NA

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140910E2-1

End Calibration ID: NA

	<b>Beg.</b>	<b>End</b>
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 checked="" type="checkbox"/>
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input type="checkbox"/> n

	<b>Beg.</b>	<b>End</b>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input 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:**

Reviewed by: MM 9/11/14  
Initials & Date

\* Ending standard criteria applicable to 8290 only.



NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140911E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140911E1    S#1    Analysis Date: 11-SEP-14 Time: 14:19:04

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	2.95	2.66-3.60	y	56.7	37.5-62.5	PCB-52/69	0.74	0.65-0.89	y	106.1	75.0-125
PCB-2	2.99	2.66-3.60	y	57.7	37.5-62.5	PCB-73	0.76	0.65-0.89	y	53.2	37.5-62.5
PCB-3	2.99	2.66-3.60	y	55.9	37.5-62.5	PCB-43/49	0.75	0.65-0.89	y	102.8	75.0-125
PCB-4/10	1.64	1.33-1.79	y	223.9	150-250	PCB-47	0.73	0.65-0.89	y	47.7	37.5-62.5
PCB-7/9	1.63	1.33-1.79	y	214.6	150-250	PCB-48/75	0.76	0.65-0.89	y	108.8	75.0-125
PCB-6	1.64	1.33-1.79	y	103.8	75.0-125	PCB-65	0.75	0.65-0.89	y	53.5	37.5-62.5
PCB-5/8	1.63	1.33-1.79	y	219.0	150-250	PCB-62	0.75	0.65-0.89	y	54.3	37.5-62.5
PCB-14	1.65	1.33-1.79	y	108.6	75.0-125	PCB-44	0.76	0.65-0.89	y	54.7	37.5-62.5
PCB-11	1.64	1.33-1.79	y	107.4	75.0-125	PCB-42/59	0.75	0.65-0.89	y	107.7	75.0-125
PCB-12/13	1.65	1.33-1.79	y	219.5	150-250	PCB-41/64/71/72	0.75	0.65-0.89	y	218.1	150-250
PCB-15	1.68	1.33-1.79	y	106.2	75.0-125	PCB-68	0.75	0.65-0.89	y	55.9	37.5-62.5
PCB-19	1.08	0.88-1.20	y	56.9	37.5-62.5	PCB-40	0.76	0.65-0.89	y	55.0	37.5-62.5
PCB-30	1.08	0.88-1.20	y	59.5	37.5-62.5	PCB-57	0.75	0.65-0.89	y	54.9	37.5-62.5
PCB-18	1.07	0.88-1.20	y	57.8	37.5-62.5	PCB-67	0.76	0.65-0.89	y	57.0	37.5-62.5
PCB-17	1.07	0.88-1.20	y	57.4	37.5-62.5	PCB-58	0.75	0.65-0.89	y	51.1	37.5-62.5
PCB-24/27	1.07	0.88-1.20	y	118.2	75.0-125	PCB-63	0.76	0.65-0.89	y	54.7	37.5-62.5
PCB-16/32	1.07	0.88-1.20	y	113.8	75.0-125	PCB-74	0.75	0.65-0.89	y	55.7	37.5-62.5
PCB-34	1.03	0.88-1.20	y	52.8	37.5-62.5	PCB-61/70	0.75	0.65-0.89	y	105.8	75.0-125
PCB-23	1.03	0.88-1.20	y	45.6	37.5-62.5	PCB-76/66	0.75	0.65-0.89	y	107.3	75.0-125
PCB-29	1.03	0.88-1.20	y	48.6	37.5-62.5	PCB-80	0.76	0.65-0.89	y	52.2	37.5-62.5
PCB-26	1.01	0.88-1.20	y	45.2	37.5-62.5	PCB-55	0.76	0.65-0.89	y	55.4	37.5-62.5
PCB-25	0.99	0.88-1.20	y	44.6	37.5-62.5	PCB-56/60	0.75	0.65-0.89	y	101.1	75.0-125
PCB-31	1.01	0.88-1.20	y	46.7	37.5-62.5	PCB-79	0.76	0.65-0.89	y	53.7	37.5-62.5
PCB-28	1.02	0.88-1.20	y	46.7	37.5-62.5	PCB-78	0.75	0.65-0.89	y	55.3	37.5-62.5
PCB-20/21/33	1.01	0.88-1.20	y	125.9	112.5-225	PCB-81	0.76	0.65-0.89	y	53.7	37.5-62.5
PCB-22	1.02	0.88-1.20	y	46.3	37.5-62.5	PCB-77	0.78	0.65-0.89	y	53.5	37.5-62.5
PCB-36	1.02	0.88-1.20	y	44.3	37.5-62.5	PCB-104	1.59	1.32-1.78	y	55.9	37.5-62.5
PCB-39	1.01	0.88-1.20	y	43.1	37.5-62.5	PCB-96	1.58	1.32-1.78	y	57.1	37.5-62.5
PCB-38	1.03	0.88-1.20	y	47.5	37.5-62.5	PCB-103	1.59	1.32-1.78	y	58.4	37.5-62.5
PCB-35	1.00	0.88-1.20	y	47.2	37.5-62.5	PCB-100	1.57	1.32-1.78	y	58.5	37.5-62.5
PCB-37	1.05	0.88-1.20	y	47.5	37.5-62.5	PCB-94	1.59	1.32-1.78	y	57.0	37.5-62.5
PCB-54	0.76	0.65-0.89	y	52.5	37.5-62.5	PCB-95/98/102	1.58	1.32-1.78	y	166.0	112.5-225
PCB-50	0.74	0.65-0.89	y	48.0	37.5-62.5	PCB-93	1.62	1.32-1.78	y	54.4	37.5-62.5
PCB-53	0.74	0.65-0.89	y	49.5	37.5-62.5	PCB-88/91	1.56	1.32-1.78	y	114.7	75.0-125
PCB-51	0.75	0.65-0.89	y	52.2	37.5-62.5	PCB-121	1.59	1.32-1.78	y	55.5	37.5-62.5
PCB-45	0.75	0.65-0.89	y	51.2	37.5-62.5						
PCB-46	0.75	0.65-0.89	y	49.2	37.5-62.5						

Analyst: DMS

Date: 9/11/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140911E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140911E1    S#1    Analysis Date: 11-SEP-14 Time: 14:19:04

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	109.2	75.0-125	PCB-140	1.26	1.05-1.43	y	55.5	37.5-62.5
PCB-89	1.59	1.32-1.78	y	55.1	37.5-62.5	PCB-134/143	1.24	1.05-1.43	y	109.2	75.0-125
PCB-90/101	1.56	1.32-1.78	y	109.9	75.0-125	PCB-133/142	1.23	1.05-1.43	y	108.2	75.0-125
PCB-113	1.61	1.32-1.78	y	60.2	37.5-62.5	PCB-131	1.22	1.05-1.43	y	54.4	37.5-62.5
PCB-99	1.60	1.32-1.78	y	53.3	37.5-62.5	PCB-146/165	1.23	1.05-1.43	y	108.7	75.0-125
PCB-119	1.58	1.32-1.78	y	55.3	37.5-62.5	PCB-132/161	1.24	1.05-1.43	y	107.9	75.0-125
PCB-108/112	1.58	1.32-1.78	y	112.6	75.0-125	PCB-153	1.25	1.05-1.43	y	52.8	37.5-62.5
PCB-83	1.61	1.32-1.78	y	58.4	37.5-62.5	PCB-168	1.25	1.05-1.43	y	53.1	37.5-62.5
PCB-97	1.62	1.32-1.78	y	55.3	37.5-62.5	PCB-141	1.23	1.05-1.43	y	53.3	37.5-62.5
PCB-86	1.49	1.32-1.78	y	52.5	37.5-62.5	PCB-137	1.25	1.05-1.43	y	52.4	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	164.5	112.5-225	PCB-130	1.23	1.05-1.43	y	61.1	37.5-62.5
PCB-111/115	1.58	1.32-1.78	y	104.6	75.0-125	PCB-138/163/164	1.25	1.05-1.43	y	163.2	112.5-225
PCB-85/116	1.61	1.32-1.78	y	117.2	75.0-125	PCB-158/160	1.22	1.05-1.43	y	108.3	75.0-125
PCB-120	1.60	1.32-1.78	y	53.8	37.5-62.5	PCB-129	1.23	1.05-1.43	y	51.2	37.5-62.5
PCB-110	1.59	1.32-1.78	y	55.4	37.5-62.5	PCB-166	1.25	1.05-1.43	y	55.2	37.5-62.5
PCB-82	1.57	1.32-1.78	y	55.4	37.5-62.5	PCB-159	1.26	1.05-1.43	y	54.0	37.5-62.5
PCB-124	1.59	1.32-1.78	y	52.4	37.5-62.5	PCB-128/162	1.25	1.05-1.43	y	104.7	75.0-125
PCB-107/109	1.58	1.32-1.78	y	115.8	75.0-125	PCB-167	1.24	1.05-1.43	y	53.7	37.5-62.5
PCB-123	1.57	1.32-1.78	y	55.3	37.5-62.5	PCB-156	1.24	1.05-1.43	y	53.1	37.5-62.5
PCB-106/118	1.58	1.32-1.78	y	112.1	75.0-125	PCB-157	1.26	1.05-1.43	y	53.9	37.5-62.5
PCB-114	1.65	1.32-1.78	y	54.0	37.5-62.5	PCB-169	1.23	1.05-1.43	y	53.5	37.5-62.5
PCB-122	1.63	1.32-1.78	y	54.7	37.5-62.5	PCB-188	1.07	0.89-1.21	y	55.1	37.5-62.5
PCB-105	1.62	1.32-1.78	y	55.1	37.5-62.5	PCB-184	1.05	0.89-1.21	y	56.9	37.5-62.5
PCB-127	1.64	1.32-1.78	y	54.0	37.5-62.5	PCB-179	1.09	0.89-1.21	y	57.4	37.5-62.5
PCB-126	1.67	1.32-1.78	y	54.7	37.5-62.5	PCB-176	1.06	0.89-1.21	y	57.2	37.5-62.5
PCB-155	1.30	1.05-1.43	y	57.5	37.5-62.5	PCB-186	1.08	0.89-1.21	y	58.0	37.5-62.5
PCB-150	1.27	1.05-1.43	y	57.4	37.5-62.5	PCB-178	1.07	0.89-1.21	y	58.2	37.5-62.5
PCB-152	1.29	1.05-1.43	y	55.0	37.5-62.5	PCB-175	1.06	0.89-1.21	y	60.6	37.5-62.5
PCB-145	1.27	1.05-1.43	y	54.1	37.5-62.5	PCB-182/187	1.06	0.89-1.21	y	120.2	75.0-125
PCB-136	1.28	1.05-1.43	y	57.0	37.5-62.5	PCB-183	1.06	0.89-1.21	y	56.8	37.5-62.5
PCB-148	1.30	1.05-1.43	y	55.2	37.5-62.5	PCB-185	1.07	0.89-1.21	y	55.6	37.5-62.5
PCB-154	1.27	1.05-1.43	y	57.4	37.5-62.5	PCB-174	1.07	0.89-1.21	y	56.2	37.5-62.5
PCB-151	1.32	1.05-1.43	y	55.4	37.5-62.5	PCB-181	1.10	0.89-1.21	y	55.2	37.5-62.5
PCB-135	1.25	1.05-1.43	y	56.8	37.5-62.5	PCB-177	1.07	0.89-1.21	y	55.9	37.5-62.5
PCB-144	1.30	1.05-1.43	y	54.4	37.5-62.5	PCB-171	1.05	0.89-1.21	y	55.0	37.5-62.5
PCB-147	1.26	1.05-1.43	y	55.5	37.5-62.5	PCB-173	1.07	0.89-1.21	y	55.2	37.5-62.5
PCB-139/149	1.29	1.05-1.43	y	111.7	75.0-125	PCB-172	1.10	0.89-1.21	y	56.5	37.5-62.5

Analyst: Dms

Date: 9/11/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140911E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140911E1    S#1    Analysis Date: 11-SEP-14 Time: 14:19:04

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO			(ng/mL)	
PCB-192	1.07	0.89-1.21	y	57.6	37.5-62.5
PCB-180	1.07	0.89-1.21	y	54.1	37.5-62.5
PCB-193	1.08	0.89-1.21	y	56.0	37.5-62.5
PCB-191	1.08	0.89-1.21	y	56.4	37.5-62.5
PCB-170	1.07	0.89-1.21	y	54.4	37.5-62.5
PCB-190	1.07	0.89-1.21	y	57.2	37.5-62.5
PCB-189	1.07	0.89-1.21	y	56.4	37.5-62.5
PCB-202	0.90	0.76-1.02	y	53.4	37.5-62.5
PCB-201	0.90	0.76-1.02	y	55.2	37.5-62.5
PCB-204	0.93	0.76-1.02	y	56.4	37.5-62.5
PCB-197	0.94	0.76-1.02	y	55.0	37.5-62.5
PCB-200	0.91	0.76-1.02	y	57.8	37.5-62.5
PCB-198	0.92	0.76-1.02	y	53.3	37.5-62.5
PCB-199	0.92	0.76-1.02	y	61.0	37.5-62.5
PCB-196/203	0.91	0.76-1.02	y	114.5	75.0-125
PCB-195	0.90	0.76-1.02	y	53.5	37.5-62.5
PCB-194	0.90	0.76-1.02	y	52.8	37.5-62.5
PCB-205	0.92	0.76-1.02	y	56.0	37.5-62.5
PCB-208	1.33	1.14-1.54	y	50.5	37.5-62.5
PCB-207	1.33	1.14-1.54	y	53.4	37.5-62.5
PCB-206	1.35	1.14-1.54	y	50.9	37.5-62.5
PCB-209	1.19	0.99-1.33	y	53.7	37.5-62.5

Analyst: DMS

Date: 9/11/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140911E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140911E1 S#1 Analysis Date: 11-SEP-14 Time: 14:19:04

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.58	2.66-3.60	y	88.3	50.0-145	13C-PCB-169	1.26	1.05-1.43	y	99.5	50 - 145
13C-PCB-3	3.45	2.66-3.60	y	92.7	50.0-145	13C-PCB-188	0.46	0.38-0.52	y	81.0	50 - 145
13C-PCB-4	1.62	1.33-1.79	y	97.3	50.0-145	13C-PCB-180	0.47	0.38-0.52	y	85.7	50 - 145
13C-PCB-9	1.61	1.33-1.79	y	101.1	50.0-145	13C-PCB-170	0.50	0.38-0.52	y	87.2	50 - 145
13C-PCB-11	1.61	1.33-1.79	y	100.0	50.0-145	13C-PCB-189	0.47	0.38-0.52	y	86.4	50 - 145
13C-PCB-19	1.08	0.88-1.20	y	78.9	50.0-145	13C-PCB-202	0.94	0.76-1.02	y	67.0	50 - 145
13C-PCB-32	1.12	0.88-1.20	y	80.0	50.0-145	13C-PCB-194	0.92	0.76-1.02	y	95.7	50 - 145
13C-PCB-28	1.07	0.88-1.20	y	95.5	50.0-145	13C-PCB-208	0.79	0.65-0.89	y	89.4	50 - 145
13C-PCB-37	1.04	0.88-1.20	y	97.4	50.0-145	13C-PCB-206	0.80	0.65-0.89	y	100.3	50 - 145
13C-PCB-54	0.78	0.65-0.89	y	101.0	50.0-145	13C-PCB-209	1.19	0.99-1.33	y	99.1	50 - 145
13C-PCB-52	0.76	0.65-0.89	y	94.8	50.0-145						
13C-PCB-47	0.77	0.65-0.89	y	95.4	50.0-145						
13C-PCB-70	0.78	0.65-0.89	y	100.1	50.0-145						
13C-PCB-80	0.77	0.65-0.89	y	99.8	50.0-145						
13C-PCB-81	0.79	0.65-0.89	y	103.0	50.0-145						
13C-PCB-77	0.78	0.65-0.89	y	100.5	50.0-145						
13C-PCB-104	1.62	1.32-1.78	y	94.1	50.0-145						
13C-PCB-95	1.63	1.32-1.78	y	95.4	50.0-145						
13C-PCB-101	1.68	1.32-1.78	y	96.0	50.0-145						
13C-PCB-97	1.63	1.32-1.78	y	100.5	50.0-145						
13C-PCB-123	1.62	1.32-1.78	y	97.6	50.0-145						
13C-PCB-118	1.64	1.32-1.78	y	96.2	50.0-145	13C-PCB-79	0.77	0.65-0.89	y	111.4	75 - 125
13C-PCB-114	1.59	1.32-1.78	y	111.1	50.0-145	13C-PCB-178	0.48	0.38-0.52	y	93.6	75 - 125
13C-PCB-105	1.59	1.32-1.78	y	111.9	50.0-145						
13C-PCB-127	1.61	1.32-1.78	y	110.5	50.0-145						
13C-PCB-126	1.57	1.32-1.78	y	111.0	50.0-145						
13C-PCB-155	1.30	1.05-1.43	y	74.6	50.0-145						
13C-PCB-153	1.26	1.05-1.43	y	96.7	50.0-145						
13C-PCB-141	1.26	1.05-1.43	y	97.6	50.0-145						
13C-PCB-138	1.25	1.05-1.43	y	101.0	50.0-145						
13C-PCB-159	1.27	1.05-1.43	y	101.8	50.0-145						
13C-PCB-167	1.26	1.05-1.43	y	100.4	50.0-145						
13C-PCB-156	1.27	1.05-1.43	y	103.7	50.0-145						
13C-PCB-157	1.29	1.05-1.43	y	100.6	50.0-145						

CRS vs. RS

Analyst: DMS

Date: 9/11/14

Client ID: PCB CS3 14F1901  
Lab ID: ST140911E1-1

Filename: 140911E1 S:1 Acq:11-SEP-14 14:19:04 ConCal: ST140911E1-1  
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	1.03e+08	2.95 y	1.25	16:12	1.001	0.996-1.006	56.7117		PCB-52/69	1.06e+08	0.74 y	1.28	31:19	1.001	0.996-1.006	106.071	
PCB-2	1.08e+08	2.99 y	1.18	18:31	0.988	0.983-0.993	57.7456		PCB-73	5.69e+07	0.76 y	1.37	31:27	1.005	1.000-1.010	53.2420	
PCB-3	1.08e+08	2.99 y	1.22	18:45	1.001	0.996-1.006	55.9037		PCB-43/49	8.92e+07	0.75 y	1.11	31:36	1.010	1.005-1.015	102.838	
PCB-4/10	3.42e+08	1.64 y	1.55	20:05	1.002	0.998-1.008	223.907		PCB-47	4.45e+07	0.73 y	1.13	31:49	1.001	0.996-1.006	47.6821	
PCB-7/9	4.20e+08	1.63 y	1.27	21:50	0.870	0.865-0.873	214.620		PCB-48/75	1.17e+08	0.76 y	1.30	31:56	1.004	0.999-1.009	108.844	
PCB-6	2.02e+08	1.64 y	1.26	22:28	0.895	0.890-0.899	103.759		PCB-65	5.88e+07	0.75 y	1.33	32:12	1.013	1.007-1.017	53.4537	
PCB-5/8	4.17e+08	1.63 y	1.23	22:52	0.911	0.906-0.916	218.979		PCB-62	5.78e+07	0.75 y	1.29	32:18	1.016	1.011-1.021	54.3410	
PCB-14	2.32e+08	1.65 y	1.23	23:57	0.954	0.949-0.959	108.639		PCB-44	4.23e+07	0.76 y	0.94	32:36	1.025	1.020-1.030	54.6551	
PCB-11	2.16e+08	1.64 y	1.16	25:07	1.000	0.996-1.006	107.384		PCB-42/59	1.08e+08	0.75 y	1.22	32:49	1.032	1.028-1.038	107.664	
PCB-12/13	4.18e+08	1.65 y	1.10	25:30	1.016	1.010-1.020	219.477		PCB-41/64/71/72	2.36e+08	0.75 y	1.31	33:24	1.051	1.046-1.056	218.145	
PCB-15	2.22e+08	1.68 y	1.21	25:49	1.028	1.024-1.034	106.154		PCB-68	6.84e+07	0.75 y	1.49	33:39	1.058	1.054-1.064	55.8584	
PCB-19	5.73e+07	1.08 y	1.30	24:08	1.001	0.996-1.006	56.9126		PCB-40	3.71e+07	0.76 y	0.82	33:53	1.066	1.061-1.071	55.0227	
PCB-30	8.46e+07	1.08 y	1.83	25:00	1.037	1.032-1.042	59.4793		PCB-57	6.71e+07	0.75 y	1.11	34:14	0.970	0.965-0.975	54.8507	
PCB-18	5.97e+07	1.07 y	0.86	25:44	0.954	0.949-0.959	57.7602		PCB-67	6.72e+07	0.76 y	1.07	34:32	0.979	0.974-0.984	56.9820	
PCB-17	6.22e+07	1.07 y	0.90	25:55	0.960	0.955-0.965	57.4015		PCB-58	6.18e+07	0.75 y	1.10	34:39	0.982	0.977-0.987	51.0757	
PCB-24/27	1.67e+08	1.07 y	1.18	26:29	0.981	0.976-0.986	118.234		PCB-63	6.72e+07	0.76 y	1.12	34:49	0.987	0.982-0.992	54.7478	
PCB-16/32	1.41e+08	1.07 y	1.03	26:59	1.000	0.995-1.005	113.786		PCB-74	7.36e+07	0.75 y	1.20	35:06	0.995	0.990-1.000	55.6904	
PCB-34	9.11e+07	1.03 y	1.26	27:46	0.960	0.956-0.966	52.8114		PCB-61/70	1.25e+08	0.75 y	1.08	35:16	1.000	0.994-1.004	105.828	
PCB-23	8.18e+07	1.03 y	1.31	27:51	0.963	0.959-0.969	45.6019		PCB-76/66	1.34e+08	0.75 y	1.14	35:29	1.006	1.001-1.011	107.257	
PCB-29	8.84e+07	1.03 y	1.33	28:06	0.972	0.967-0.977	48.6309		PCB-80	7.44e+07	0.76 y	1.28	35:43	1.001	0.996-1.006	52.2345	
PCB-26	7.98e+07	1.01 y	1.29	28:19	0.979	0.974-0.984	45.1506		PCB-55	6.85e+07	0.76 y	1.11	36:02	1.010	1.005-1.015	55.3843	
PCB-25	8.19e+07	0.99 y	1.34	28:28	0.985	0.980-0.990	44.5743		PCB-56/60	1.22e+08	0.75 y	1.09	36:32	1.024	1.018-1.028	101.065	
PCB-31	9.07e+07	1.01 y	1.42	28:49	0.997	0.992-1.002	46.6947		PCB-79	6.73e+07	0.76 y	1.12	37:34	1.053	1.048-1.058	53.7007	
PCB-28	8.79e+07	1.02 y	1.38	28:55	1.000	0.996-1.006	46.6654		PCB-78	6.86e+07	0.75 y	1.24	38:16	0.987	0.982-0.992	55.2691	
PCB-20/21/33	2.26e+08	1.01 y	1.31	29:31	1.021	1.017-1.027	125.866		PCB-81	7.43e+07	0.76 y	1.38	38:48	1.000	0.995-1.005	53.6673	
PCB-22	8.37e+07	1.02 y	1.32	29:58	1.037	1.032-1.042	46.3037		PCB-77	6.74e+07	0.78 y	1.21	39:24	1.000	0.995-1.005	53.4673	
PCB-36	7.97e+07	1.02 y	1.38	30:34	0.933	0.929-0.939	44.3488		PCB-104	4.03e+07	1.59 y	1.26	32:28	1.001	0.996-1.006	55.9449	
PCB-39	7.99e+07	1.01 y	1.42	31:02	0.948	0.943-0.953	43.1062		PCB-96	3.58e+07	1.58 y	1.09	33:43	1.039	1.034-1.044	57.1220	
PCB-38	8.40e+07	1.03 y	1.35	31:49	0.972	0.967-0.976	47.4674		PCB-103	3.12e+07	1.59 y	0.93	34:14	1.055	1.050-1.060	58.4034	
PCB-35	8.48e+07	1.00 y	1.38	32:20	0.987	0.982-0.992	47.1756		PCB-100	3.36e+07	1.57 y	1.00	34:35	1.066	1.061-1.071	58.5009	
PCB-37	8.63e+07	1.05 y	1.39	32:46	1.001	0.996-1.006	47.4731		PCB-94	2.74e+07	1.59 y	1.11	35:03	0.985	0.981-0.991	56.9874	
PCB-54	6.27e+07	0.76 y	1.20	27:50	1.001	0.996-1.006	52.4905		PCB-95/98/102	8.75e+07	1.58 y	1.21	35:33	0.999	0.994-1.004	165.977	
PCB-50	4.62e+07	0.74 y	0.97	28:59	1.042	1.037-1.047	47.9838		PCB-93	2.67e+07	1.62 y	1.13	35:41	1.003	0.998-1.008	54.4410	
PCB-53	4.58e+07	0.74 y	1.19	29:37	0.947	0.941-0.951	49.4880		PCB-88/91	5.08e+07	1.56 y	1.02	35:57	1.010	1.006-1.016	114.744	
PCB-51	4.70e+07	0.75 y	1.15	29:57	0.957	0.952-0.962	52.2418		PCB-121	4.59e+07	1.59 y	1.90	36:04	1.014	1.009-1.019	55.4691	
PCB-45	3.86e+07	0.75 y	0.97	30:23	0.971	0.966-0.976	51.2390		PCB-84/92	5.30e+07	1.59 y	1.05	36:54	0.991	0.986-0.996	109.235	
PCB-46	3.65e+07	0.75 y	0.95	30:52	0.987	0.982-0.992	49.1845		PCB-89	2.59e+07	1.59 y	1.02	37:05	0.996	0.991-1.001	55.0994	

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by

Analyst: *DMS*

Date: *9/11/14*

Reviewed

by

Analyst: \_\_\_\_\_

Date: \_\_\_\_\_

Client ID: PCB CS3 14F1901  
Lab ID: ST140911E1-1

Filename: 140911E1 S:1 Acq:11-SEP-14 14:19:04  
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	6.04e+07	1.56	y	1.19	37:15	1.000	0.996-1.006	109.909	PCB-133/142	8.08e+07	1.23	y	0.95	42:10	0.982	0.977-0.987	108.176
PCB-113	3.75e+07	1.61	y	1.35	37:30	1.007	1.002-1.012	60.1713	PCB-131	3.92e+07	1.22	y	0.91	42:19	0.986	0.981-0.991	54.3678
PCB-99	3.17e+07	1.60	y	1.29	37:36	1.009	1.005-1.015	53.2742	PCB-146/165	9.93e+07	1.23	y	1.16	42:32	0.991	0.986-0.996	108.657
PCB-119	4.03e+07	1.58	y	1.72	38:03	0.987	0.982-0.992	55.2771	PCB-132/161	9.49e+07	1.24	y	1.11	42:47	0.996	0.992-1.002	107.858
PCB-108/112	6.15e+07	1.58	y	1.29	38:12	0.991	0.986-0.996	112.596	PCB-153	4.92e+07	1.25	y	1.18	42:57	1.000	0.995-1.005	52.8318
PCB-83	3.77e+07	1.61	y	1.52	38:22	0.996	0.991-1.001	58.4498	PCB-168	5.75e+07	1.25	y	1.37	43:10	1.005	1.000-1.010	53.1174
PCB-97	2.92e+07	1.62	y	1.25	38:34	1.001	0.996-1.006	55.2651	PCB-141	3.99e+07	1.23	y	0.97	43:41	1.000	0.996-1.005	53.3295
PCB-86	2.27e+07	1.49	y	1.02	38:43	1.005	1.000-1.010	52.4636	PCB-137	4.31e+07	1.25	y	1.07	44:04	1.009	1.004-1.014	52.3634
B-87/117/125	1.09e+08	1.59	y	1.56	38:49	1.007	1.002-1.012	164.466	PCB-130	3.98e+07	1.23	y	0.85	44:10	1.011	1.007-1.017	61.0919
PCB-111/115	7.77e+07	1.58	y	1.75	38:59	1.012	1.007-1.017	104.623	PCB-138/163/164	1.55e+08	1.25	y	1.23	44:33	1.001	0.996-1.006	163.190
PCB-85/116	6.47e+07	1.61	y	1.30	39:06	1.015	1.010-1.020	117.186	PCB-158/160	1.08e+08	1.22	y	1.29	44:48	1.006	1.001-1.011	108.278
PCB-120	4.07e+07	1.60	y	1.78	39:21	1.021	1.016-1.026	53.8409	PCB-129	3.66e+07	1.23	y	0.92	45:02	1.012	1.007-1.017	51.1679
PCB-110	3.94e+07	1.59	y	1.68	39:29	1.024	1.020-1.030	55.3614	PCB-166	5.52e+07	1.25	y	1.12	45:30	0.994	0.988-0.998	55.1873
PCB-82	2.32e+07	1.57	y	0.74	40:07	0.976	0.972-0.982	55.4038	PCB-159	5.64e+07	1.26	y	1.16	45:48	1.000	0.995-1.005	53.9836
PCB-124	3.93e+07	1.59	y	1.32	40:48	0.993	0.988-0.998	52.3637	PCB-128/162	9.56e+07	1.25	y	1.02	46:06	1.007	1.002-1.012	104.665
PCB-107/109	8.02e+07	1.58	y	1.22	40:56	0.996	0.991-1.001	115.835	PCB-167	5.55e+07	1.24	y	1.06	46:29	1.000	0.995-1.005	53.6593
PCB-123	3.82e+07	1.57	y	1.22	41:07	1.001	0.995-1.005	55.3435	PCB-156	5.95e+07	1.24	y	1.18	47:47	1.000	0.995-1.005	53.0655
- PCB-106/118	7.97e+07	1.58	y	1.22	41:18	1.001	0.996-1.006	112.077	PCB-157	5.65e+07	1.26	y	1.08	48:02	1.000	0.995-1.005	53.9196
- PCB-114	7.21e+07	1.65	y	1.36	41:56	1.000	0.995-1.005	54.0402	PCB-169	5.26e+07	1.23	y	1.11	50:11	1.000	0.995-1.005	53.4725
PCB-122	6.66e+07	1.63	y	1.24	42:04	1.003	0.999-1.009	54.7034	PCB-188	4.30e+07	1.07	y	1.40	42:36	1.001	0.995-1.005	55.0579
PCB-105	7.19e+07	1.62	y	1.28	42:48	1.000	0.995-1.005	55.0914	PCB-184	3.92e+07	1.05	y	1.24	43:03	1.011	1.006-1.016	56.8733
PCB-127	6.71e+07	1.64	y	1.14	43:08	1.000	0.995-1.005	54.0445	PCB-179	4.17e+07	1.09	y	1.30	43:49	1.029	1.024-1.034	57.4445
PCB-126	6.66e+07	1.67	y	1.28	45:02	1.000	0.995-1.005	54.7065	PCB-176	4.34e+07	1.06	y	1.36	44:17	1.040	1.035-1.045	57.2400
PCB-155	2.48e+07	1.30	y	1.14	36:49	1.001	0.966-1.006	57.4784	PCB-186	4.12e+07	1.08	y	1.28	44:54	1.055	1.049-1.059	57.9849
PCB-150	2.32e+07	1.27	y	1.06	38:04	1.035	1.030-1.040	57.4345	PCB-178	3.03e+07	1.07	y	0.94	45:23	1.066	1.061-1.071	58.1834
PCB-152	2.30e+07	1.29	y	1.10	38:33	1.048	1.043-1.053	55.0347	PCB-175	3.27e+07	1.06	y	0.97	45:43	1.074	1.069-1.079	60.5621
PCB-145	2.25e+07	1.27	y	1.09	38:60	1.060	1.055-1.065	54.0930	PCB-182/187	6.79e+07	1.06	y	1.01	45:54	1.078	1.073-1.083	120.178
PCB-136	2.35e+07	1.28	y	1.08	39:19	1.069	1.064-1.074	56.9720	PCB-183	3.42e+07	1.06	y	1.08	46:13	1.086	1.080-1.090	56.8051
PCB-148	1.55e+07	1.30	y	0.74	39:25	1.071	1.066-1.076	55.1542	PCB-185	3.17e+07	1.07	y	1.34	46:52	0.956	0.951-0.961	55.6047
PCB-154	1.93e+07	1.27	y	0.88	39:54	1.084	1.079-1.089	57.3641	PCB-174	3.19e+07	1.07	y	1.34	47:14	0.963	0.958-0.968	56.2306
PCB-151	1.70e+07	1.32	y	0.81	40:32	1.102	1.097-1.107	55.3637	PCB-181	3.18e+07	1.10	y	1.36	47:21	0.965	0.961-0.971	55.1712
PCB-135	1.68e+07	1.25	y	0.78	40:45	1.108	1.101-1.113	56.7902	PCB-177	2.94e+07	1.07	y	1.24	47:30	0.969	0.964-0.974	55.9207
PCB-144	1.70e+07	1.30	y	0.82	40:52	1.111	1.105-1.116	54.4309	PCB-171	3.06e+07	1.05	y	1.31	47:48	0.975	0.970-0.980	55.0179
PCB-147	1.75e+07	1.26	y	0.83	40:60	1.114	1.011-1.120	55.4533	PCB-173	2.71e+07	1.07	y	1.16	48:14	0.983	0.979-0.989	55.1748
PCB-139/149	3.58e+07	1.29	y	0.84	41:15	1.121	1.115-1.127	111.670	PCB-172	2.93e+07	1.10	y	1.22	48:40	0.992	0.988-0.998	56.4859
- PCB-140	1.66e+07	1.26	y	0.79	41:26	1.126	1.120-1.132	55.5479	PCB-192	3.73e+07	1.07	y	1.53	48:52	0.996	0.991-1.001	57.6032
- PCB-134/143	7.99e+07	1.24	y	0.93	41:52	0.975	0.970-0.980	109.153	PCB-180	3.28e+07	1.07	y	1.43	49:04	1.001	0.995-1.005	54.0994

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMS

Date: 9/11/14

Client ID: PCB CS3 14F1901  
Lab ID: ST140911E1-1

Filename: 140911E1 S:1 Acq:11-SEP-14 14:19:04  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	3.93e+07	1.08 y	1.65	49:16	1.005	0.999-1.009		55.9779
PCB-191	4.00e+07	1.08 y	1.67	49:32	1.010	1.004-1.014		56.4375
PCB-170	2.80e+07	1.07 y	1.50	50:34	1.000	0.995-1.005		54.4117
PCB-190	3.96e+07	1.07 y	2.02	50:44	1.004	0.998-1.008		57.2220
PCB-189	3.94e+07	1.07 y	1.54	52:03	1.000	0.995-1.005		56.3929
PCB-202	2.27e+07	0.90 y	1.04	48:00	1.000	0.995-1.005		53.3671
PCB-201	2.49e+07	0.90 y	1.10	48:29	1.010	1.006-1.016		55.2326
PCB-204	2.29e+07	0.93 y	0.99	48:38	1.014	1.009-1.019		56.3813
PCB-197	2.42e+07	0.94 y	1.07	48:57	1.020	1.015-1.025		54.9858
PCB-200	2.41e+07	0.91 y	1.02	49:50	1.039	1.032-1.044		57.8223
PCB-198	1.62e+07	0.92 y	0.74	51:09	1.066	1.058-1.068		53.2715
PCB-199	1.82e+07	0.92 y	0.73	51:16	1.068	1.060-1.070		60.9986
- PCB-196/203	3.62e+07	0.91 y	0.77	51:32	1.074	1.066-1.076		114.466
- PCB-195	4.22e+07	0.90 y	1.20	52:42	0.984	0.979-0.989		53.5309
PCB-194	4.32e+07	0.90 y	1.25	53:34	1.000	0.995-1.005		52.7948
PCB-205	5.20e+07	0.92 y	1.41	53:50	1.005	1.001-1.011		56.0335
PCB-208	4.13e+07	1.33 y	0.96	52:50	1.000	0.995-1.005		50.4526
PCB-207	4.16e+07	1.33 y	0.92	53:09	1.006	1.001-1.011		53.3682
PCB-206	2.93e+07	1.35 y	1.03	55:13	1.000	0.995-1.005		50.9355
PCB-209	3.25e+07	1.19 y	1.18	56:35	1.000	0.995-1.005		53.7287

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	3.20e+08	2.95 y	16:12	1.22	170.361
Total Di-PCB	2.47e+09	1.64 y	20:05	1.21	1304.67
Total Tri-PCB	5.72e+08	1.08 y	24:08	1.16	463.573
Total Tri-PCB	1.35e+09	1.03 y	27:46	1.35	744.700
Total Tetra-PCB	2.46e+09	0.76 y	27:50	1.17	2249.79
Total Penta-PCB	1.37e+09	1.59 y	32:28	1.21	2291.65
Total Penta-PCB	3.70e+08	1.65 y	41:56	1.26	293.080
Total Hexa-PCB	2.72e+08	1.30 y	36:49	0.92	782.787
Total Hexa-PCB	1.38e+09	1.24 y	41:52	1.08	1540.31
Total Hepta-PCB	8.51e+08	1.07 y	42:36	1.27	1377.44
Total Octa-PCB	1.90e+08	0.90 y	48:00	0.92	506.526
Total Octa-PCB	1.44e+08	0.90 y	52:42	1.29	169.632
Total Nona-PCB	1.14e+08	1.33 y	52:50	0.96	157.946
Total Deca-PCB	3.25e+07	1.19 y	56:35	1.18	53.7287

Total PCB Conc:11992.5750510

Integrations  
by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMS

Date: 9/11/14

Client ID: PCB CS3 14F1901  
Lab ID: ST140911E1-1

Filename: 140911E1 S:1 Acq:11-SEP-14 14:19:04  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140911E1-1  
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	1.45e+08	3.58 y	0.89	16:11	0.627	0.622-0.628		88.3	88.3											
13C-PCB-3	1.59e+08	3.45 y	0.93	18:44	0.726	0.721-0.729		92.7	92.7		13C-PCB-79	1.30e+08	0.77 y	1.01	37:34	1.029	1.023-1.033		111	111
13C-PCB-4	9.85e+07	1.62 y	0.55	20:02	0.777	0.772-0.780		97.3	97.3		13C-PCB-178	4.33e+07	0.48 y	0.63	45:21	0.984	0.979-0.989		93.6	93.6
13C-PCB-9	1.54e+08	1.61 y	0.83	21:47	0.844	0.840-0.848		101	101											
13C-PCB-11	1.73e+08	1.61 y	0.94	25:06	0.973	0.968-0.978		100.0	100.0											
13C-PCB-19	7.77e+07	1.08 y	0.53	24:06	0.934	0.929-0.939		78.9	78.9											
13C-PCB-28	1.37e+08	1.07 y	0.89	28:55	1.004	0.999-1.009		95.5	95.5		13C-PCB-79	1.30e+08	0.77 y	1.20	37:34	0.969	0.963-0.973		108	108
13C-PCB-32	1.20e+08	1.12 y	0.81	26:59	1.046	1.041-1.051		80.0	80.0		13C-PCB-178	4.33e+07	0.48 y	0.94	45:21	0.925	0.920-0.930		109	109
13C-PCB-37	1.31e+08	1.04 y	0.83	32:45	1.137	1.131-1.143		97.4	97.4											
13C-PCB-47	8.24e+07	0.77 y	0.74	31:48	0.871	0.867-0.875		95.4	95.4											
13C-PCB-52	7.80e+07	0.76 y	0.71	31:17	0.857	0.853-0.861		94.8	94.8											
13C-PCB-54	9.97e+07	0.78 y	0.85	27:48	0.761	0.758-0.766		101	101											
13C-PCB-70	1.10e+08	0.78 y	0.94	35:17	0.966	0.961-0.971		100	100											
13C-PCB-77	1.04e+08	0.78 y	0.89	39:22	1.078	1.073-1.083		100	100											
13C-PCB-80	1.12e+08	0.77 y	0.96	35:41	0.977	0.972-0.982		99.8	99.8											
13C-PCB-81	1.00e+08	0.79 y	0.84	38:47	1.062	1.057-1.067		103	103											
13C-PCB-95	4.34e+07	1.63 y	0.74	35:35	0.913	0.908-0.918		95.4	95.4											
13C-PCB-97	4.24e+07	1.63 y	0.69	38:32	0.989	0.984-0.994		100	100											
13C-PCB-101	4.62e+07	1.68 y	0.79	37:15	0.956	0.951-0.961		96.0	96.0											
13C-PCB-104	5.74e+07	1.62 y	1.00	32:26	0.833	0.829-0.837		94.1	94.1		13C-PCB-15	1.85e+08	1.58 y	1.00	25:48			100		
13C-PCB-105	1.02e+08	1.59 y	1.24	42:47	0.928	0.924-0.934		112	112		13C-PCB-31	1.61e+08	1.04 y	1.00	28:48			100		
13C-PCB-114	9.84e+07	1.59 y	1.21	41:56	0.910	0.905-0.915		111	111		13C-PCB-60	1.16e+08	0.76 y	1.00	36:31			100		
13C-PCB-118	5.80e+07	1.64 y	0.98	41:16	1.059	1.054-1.064		96.2	96.2		13C-PCB-111	6.12e+07	1.66 y	1.00	38:58			100		
13C-PCB-123	5.67e+07	1.62 y	0.95	41:06	1.055	1.049-1.059		97.6	97.6		13C-PCB-128	7.34e+07	1.25 y	1.00	46:05			100		
13C-PCB-126	9.47e+07	1.57 y	1.16	45:01	0.977	0.972-0.982		111	111		13C-PCB-205	8.47e+07	0.92 y	1.00	53:49			100		
13C-PCB-127	1.09e+08	1.61 y	1.34	43:07	0.936	0.931-0.941		111	111											
13C-PCB-138	7.74e+07	1.25 y	1.04	44:31	0.966	0.961-0.971		101	101											
13C-PCB-141	7.68e+07	1.26 y	1.07	43:41	0.948	0.943-0.953		97.6	97.6											
13C-PCB-153	7.90e+07	1.26 y	1.11	42:56	0.932	0.927-0.937		96.7	96.7											
13C-PCB-155	3.80e+07	1.30 y	0.83	36:48	0.944	0.939-0.949		74.6	74.6											
13C-PCB-156	9.48e+07	1.27 y	1.24	47:46	1.037	1.032-1.042		104	104											
13C-PCB-157	9.68e+07	1.29 y	1.31	48:02	1.043	1.037-1.047		101	101											
13C-PCB-159	8.96e+07	1.27 y	1.20	45:47	0.994	0.989-0.999		102	102											
13C-PCB-167	9.73e+07	1.26 y	1.32	46:29	1.009	1.004-1.014		100	100											
13C-PCB-169	8.88e+07	1.26 y	1.22	50:11	1.089	1.082-1.092		99.5	99.5											
13C-PCB-170	3.43e+07	0.50 y	0.54	50:33	1.097	1.089-1.101		87.2	87.2											
13C-PCB-180	4.24e+07	0.47 y	0.67	49:03	1.064	1.059-1.069		85.7	85.7											
13C-PCB-188	5.56e+07	0.46 y	0.94	42:34	0.924	0.919-0.929		81.0	81.0											
13C-PCB-189	4.54e+07	0.47 y	0.72	52:02	1.129	1.120-1.132		86.4	86.4											
13C-PCB-194	6.57e+07	0.92 y	0.81	53:33	0.995	0.990-1.000		95.7	95.7											
13C-PCB-202	4.09e+07	0.94 y	0.83	47:59	1.041	1.036-1.046		67.0	67.0											
13C-PCB-206	5.59e+07	0.80 y	0.66	55:12	1.025	1.021-1.031		100	100											
13C-PCB-208	8.50e+07	0.79 y	1.12	52:49	0.981	0.976-0.986		89.4	89.4											
13C-PCB-209	5.15e+07	1.19 y	0.61	56:34	1.051	1.044-1.054		99.1	99.1											

Analyst: *Dms*

Date: *9/11/14*



Vista Analytical Laboratory - Injection Log Run file: 140912E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140911E1	1	ST140911E1-1	DMS	11-SEP-14	14:19:04	ST140911E1-1	NA
140911E1	2	SOLVENT BLANK	DMS	11-SEP-14	15:23:12	ST140911E1-1	NA
140911E1	3	SOLVENT BLANK	DMS	11-SEP-14	16:27:21	ST140911E1-1	NA
140911E1	4	B4I0012-BS1	DMS	11-SEP-14	17:31:30	ST140911E1-1	ST140912E1-1
140911E1	5	B4I0034-BS1	DMS	11-SEP-14	18:35:34	ST140911E1-1	NA
140911E1	6	SOLVENT BLANK	DMS	11-SEP-14	19:39:37	ST140911E1-1	NA
140911E1	7	B4I0034-BLK1	DMS	11-SEP-14	20:43:41	ST140911E1-1	NA
140911E1	8	1400618-01	DMS	11-SEP-14	21:47:44	ST140911E1-1	NA
140911E1	9	1400618-02	DMS	11-SEP-14	22:51:48	ST140911E1-1	NA
140911E1	10	1400647-02RE1 DL 1:5	DMS	11-SEP-14	23:55:50	ST140911E1-1	NA
140911E1	11	1400647-03RE1 DL 1:10	DMS	12-SEP-14	00:59:52	ST140911E1-1	NA
140911E1	12	SOLVENT BLANK	DMS	12-SEP-14	02:03:59	ST140911E1-1	NA
140911E1	13	SOLVENT BLANK	DMS	12-SEP-14	03:08:07	ST140911E1-1	NA
140912E1	1	ST140912E1-1	ANP	12-SEP-14	14:59:30	ST140912E1-1	NA

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140911E1-1

End Calibration ID: ST140912E1-1

	<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>9/15/14</i>	<input checked="" type="checkbox"/> <i>9/15/14</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"/> <b>y</b>	<input type="checkbox"/> <b>n</b>

	<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 type="checkbox"/>
-CS1 within 12-hour clock		<input type="checkbox"/>

**Comments:**

Reviewed by: *MJ* 9/15/14  
*Initials & Date*

\* Ending standard criteria applicable to 8290 only.

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

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: DMSDate: 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*

Client ID: PCB CS3 14F1302  
Lab ID: ST140919E2-1

Filename: 140919E2 S:1 Acq:19-SEP-14 23:43:03 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	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-4/10	3.53e+08	1.63 y	1.57	20:18	1.003	0.997-1.007	201.893		PCB-47	5.64e+07	0.96 n	1.06	32:13	1.001	0.996-1.006	42.4969	
PCB-7/9	4.23e+08	1.65 y	1.21	22:05	0.869	0.866-0.874	203.572		PCB-48/75	1.55e+08	0.77 y	1.23	32:20	1.004	0.999-1.009	100.647	
PCB-6	2.19e+08	1.66 y	1.30	22:44	0.894	0.890-0.899	97.4930		PCB-65	7.50e+07	0.81 y	1.22	32:36	1.013	1.008-1.018	48.8214	
PCB-5/8	4.04e+08	1.64 y	1.15	23:09	0.911	0.907-0.917	204.664		PCB-62	7.69e+07	0.84 y	1.22	32:41	1.015	1.011-1.021	50.1886	
PCB-14	2.10e+08	1.65 y	1.11	24:15	0.954	0.949-0.959	103.816		PCB-44	5.36e+07	0.81 y	0.86	33:01	1.026	1.021-1.031	49.6890	
PCB-11	2.02e+08	1.66 y	1.09	25:26	1.001	0.995-1.005	102.316		PCB-42/59	1.42e+08	0.81 y	1.14	33:13	1.032	1.028-1.038	99.2925	
PCB-12/13	4.41e+08	1.65 y	1.19	25:49	1.016	1.011-1.021	202.849		PCB-41/64/71/72	2.99e+08	0.82 y	1.21	33:48	1.050	1.046-1.056	197.303	
PCB-15	2.34e+08	1.67 y	1.28	26:08	1.028	1.023-1.033	100.275		PCB-68	8.61e+07	0.82 y	1.35	34:04	1.058	1.054-1.064	50.9281	
PCB-19	5.95e+07	1.10 y	1.04	24:26	1.001	0.996-1.006	46.4094		PCB-40	4.57e+07	0.82 y	0.70	34:18	1.065	1.061-1.071	51.9284	
PCB-30	9.90e+07	1.09 y	1.71	25:19	1.037	1.032-1.042	47.0091		PCB-57	7.83e+07	0.82 y	0.98	34:38	0.970	0.965-0.975	49.9521	
PCB-18	6.94e+07	1.08 y	0.78	26:04	0.954	0.949-0.959	47.3299		PCB-67	8.42e+07	0.82 y	1.11	34:56	0.978	0.974-0.984	47.5147	
PCB-17	8.10e+07	1.09 y	0.92	26:14	0.960	0.956-0.966	46.8122		PCB-58	7.55e+07	0.83 y	0.93	35:04	0.982	0.977-0.987	50.8489	
PCB-24/27	2.10e+08	1.09 y	1.19	26:49	0.981	0.977-0.987	93.9988		PCB-63	7.55e+07	0.83 y	0.95	35:14	0.987	0.982-0.992	49.5047	
PCB-16/32	1.65e+08	1.10 y	0.94	27:19	1.000	0.995-1.005	93.3408		PCB-74	9.70e+07	0.81 y	1.24	35:31	0.995	0.990-1.000	48.7249	
PCB-34	1.02e+08	1.06 y	1.14	28:07	0.960	0.955-0.965	57.4954		PCB-61/70	1.56e+08	0.83 y	0.95	35:41	0.999	0.995-1.005	102.162	
PCB-23	9.78e+07	1.07 y	1.28	28:13	0.964	0.959-0.969	48.9323		PCB-76/66	1.63e+08	0.82 y	1.04	35:54	1.005	1.001-1.011	97.6861	
PCB-29	8.96e+07	1.06 y	1.08	28:28	0.972	0.967-0.977	53.0876		PCB-80	1.01e+08	0.83 y	1.19	36:08	1.000	0.996-1.006	49.4841	
PCB-26	9.81e+07	1.09 y	1.21	28:40	0.979	0.974-0.984	52.0184		PCB-55	8.62e+07	0.83 y	1.04	36:27	1.009	1.005-1.015	48.5257	
PCB-25	1.05e+08	1.05 y	1.26	28:49	0.984	0.979-0.989	53.3545		PCB-56/60	1.72e+08	0.82 y	1.01	36:57	1.023	1.019-1.029	99.8359	
PCB-31	1.00e+08	1.05 y	1.28	29:11	0.997	0.992-1.002	49.7953		PCB-79	9.17e+07	0.82 y	1.08	38:01	1.053	1.048-1.058	49.8075	
PCB-28	1.41e+08	1.06 y	1.71	29:18	1.001	0.995-1.005	52.5660		PCB-78	9.24e+07	0.82 y	1.27	38:43	0.987	0.982-0.992	47.5758	
PCB-20/21/33	2.68e+08	1.07 y	1.08	29:54	1.021	1.017-1.027	158.720		PCB-81	9.54e+07	0.82 y	1.33	39:14	1.000	0.995-1.005	46.9330	
PCB-22	1.01e+08	1.06 y	1.21	30:21	1.037	1.032-1.042	53.7242		PCB-77	8.52e+07	0.86 y	1.10	39:50	1.000	0.995-1.005	50.1527	
PCB-36	8.96e+07	1.06 y	1.14	30:58	0.934	0.928-0.938	55.3638		PCB-104	6.86e+07	1.63 y	1.18	32:51	1.000	0.996-1.006	51.3735	
PCB-39	8.72e+07	1.05 y	1.12	31:26	0.948	0.943-0.953	55.1536		PCB-96	6.58e+07	1.65 y	1.14	34:08	1.039	1.034-1.044	51.2370	
PCB-38	8.87e+07	1.07 y	1.20	32:13	0.972	0.966-0.976	52.1638		PCB-103	5.60e+07	1.61 y	0.96	34:39	1.055	1.050-1.060	51.8620	
PCB-35	1.02e+08	1.07 y	1.23	32:44	0.987	0.982-0.992	58.2204		PCB-100	5.63e+07	1.65 y	0.94	35:01	1.066	1.061-1.071	53.2722	
PCB-37	9.34e+07	1.06 y	1.23	33:10	1.000	0.995-1.005	53.6121		PCB-94	4.61e+07	1.65 y	1.06	35:29	0.986	0.980-0.990	49.9645	
PCB-54	7.39e+07	0.81 y	1.10	28:11	1.001	0.996-1.006	47.3802		PCB-95/98/102	1.61e+08	1.63 y	1.22	35:59	0.999	0.995-1.005	150.602	
PCB-50	6.20e+07	0.81 y	0.88	29:20	1.042	1.037-1.047	49.7845		PCB-93	4.22e+07	1.74 y	0.84	36:07	1.003	0.997-1.007	57.2422	
PCB-53	6.04e+07	0.83 y	1.06	29:59	0.946	0.942-0.952	47.7193		PCB-88/91	9.75e+07	1.62 y	1.12	36:23	1.011	1.005-1.015	99.9804	
PCB-51	5.71e+07	0.81 y	0.99	30:19	0.957	0.952-0.962	48.4308		PCB-121	8.12e+07	1.66 y	1.62	36:30	1.014	1.009-1.019	57.5594	
PCB-45	5.16e+07	0.82 y	0.86	30:45	0.971	0.966-0.976	50.1711		PCB-84/92	1.02e+08	1.64 y	1.05	37:20	0.991	0.985-0.995	102.316	
PCB-46	4.88e+07	0.82 y	0.85	31:15	0.986	0.981-0.991	48.5466		PCB-89	5.53e+07	1.65 y	1.13	37:31	0.995	0.991-1.001	51.3810	

RL: MONO, TRI - DECA: \_\_\_\_\_  
RL: DI : \_\_\_\_\_

Integrations  
by  
Analyst: DMS  
Date: 9/22/14  
Reviewed  
by  
Analyst: \_\_\_\_\_  
Date: \_\_\_\_\_



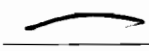
Client ID: PCB CS3 14F1302  
Lab ID: ST140919E2-1

Filename: 140919E2 S:1 Acq:19-SEP-14 23:43:03 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-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

RL: MONO, TRI - DECA: \_\_\_\_\_

Integrations

by

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: PCBG8-6-23-14 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

	Beg.	End
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

	* Beg.	End*
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: DMS 9/22/14  
Initials & Date

\* Ending standard criteria applicable to 8290 only.

Client ID: PCB CS3 14F1302  
Lab ID: ST140922E1-2

Filename: 140922E1 S:2 Acq:22-SEP-14 16:29:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST140922E1-2

Page 2 of

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	4.28e+07	1.55	y	1.10	37:58	1.007	0.995-1.005	57.5190	PCB-133/142	5.63e+07	1.24	y	0.82	42:39	0.982	0.977-0.987	96.1627
PCB-113	4.23e+07	1.59	y	1.41	38:04	1.009	1.002-1.012	44.3360	PCB-131	3.05e+07	1.24	y	0.91	42:49	0.986	0.981-0.991	47.0241
PCB-99	4.27e+07	1.55	y	1.34	38:32	1.022	1.004-1.014	47.2463	PCB-146/165	8.36e+07	1.24	y	1.25	43:02	0.991	0.986-0.996	93.8599
PCB-119	7.04e+07	1.54	y	1.53	38:41	0.991	0.982-0.992	73.5126	PCB-132/161	7.41e+07	1.24	y	1.10	43:17	0.997	0.991-1.001	93.7334
PCB-108/112	3.97e+07	1.56	y	1.28	38:51	0.996	0.986-0.996	49.5419	PCB-153	4.19e+07	1.23	y	1.25	43:27	1.001	0.995-1.005	46.9350
PCB-83	3.22e+07	1.54	y	1.52	39:02	1.001	0.990-1.000	33.9641	PCB-168	4.89e+07	1.23	y	1.45	43:40	1.005	1.000-1.010	47.1608
PCB-97	2.80e+07	1.51	y	1.18	39:11	1.004	0.996-1.006	37.9036	PCB-141	3.37e+07	1.25	y	1.09	44:11	1.000	0.995-1.005	47.0288
PCB-86	1.27e+08	1.56	y	0.84	39:18	1.007	0.999-1.009	240.401	PCB-137	3.54e+07	1.24	y	1.06	44:34	1.009	1.004-1.014	50.5424
B-87/117/125	8.70e+07	1.54	y	1.55	39:28	1.012	1.002-1.012	89.7858	PCB-130	2.97e+07	1.26	y	0.96	44:41	1.012	1.006-1.016	46.7632
PCB-111/115	7.33e+07	1.58	y	1.63	39:35	1.015	1.006-1.016	71.7561	PCB-138/163/164	1.23e+08	1.24	y	1.29	45:03	1.001	0.995-1.005	138.091
PCB-85/116	4.62e+07	1.55	y	1.30	39:50	1.021	1.010-1.020	56.8083	PCB-158/160	8.79e+07	1.23	y	1.34	45:18	1.006	1.001-1.011	94.7407
PCB-120	4.14e+07	1.53	y	1.68	39:59	1.025	1.016-1.026	39.5384	PCB-129	2.88e+07	1.23	y	0.85	45:32	1.012	1.006-1.016	48.8580
PCB-110	2.85e+07	1.57	y	1.56	40:36	1.041	1.019-1.029	29.3398	PCB-166	4.42e+07	1.26	y	1.19	45:59	0.994	0.988-0.998	48.0462
PCB-82	1.61e+06	1.46	y	0.76	41:01	0.987	0.971-0.981	2.60077	PCB-159	4.32e+07	1.26	y	1.11	46:18	1.000	0.995-1.005	50.1047
PCB-124	5.30e+07	1.68	y	1.47	41:17	0.993	0.988-0.998	44.1935	PCB-128/162	7.81e+07	1.22	y	1.05	46:36	1.007	1.001-1.011	96.0659
PCB-107/109	9.30e+07	1.48	y	1.32	41:26	0.996	0.991-1.001	86.2599	PCB-167	4.86e+07	1.24	y	1.20	46:60	1.000	0.995-1.005	47.6163
PCB-123	4.21e+07	1.56	y	1.17	41:36	1.001	0.995-1.005	44.2044	PCB-156	4.40e+07	1.22	y	1.14	48:18	1.000	0.996-1.006	47.5416
- PCB-106/118	8.84e+07	1.55	y	1.17	41:48	1.001	0.996-1.006	89.8489	PCB-157	4.65e+07	1.25	y	1.16	48:34	1.000	0.995-1.005	45.8905
- PCB-114	2.99e+07	1.60	y	1.30	42:26	1.000	0.995-1.005	44.3489	PCB-169	4.11e+07	1.22	y	1.12	50:41	1.000	0.995-1.005	45.9957
PCB-122	2.60e+07	1.58	y	1.12	42:35	1.004	0.998-1.008	44.6077									
PCB-105	2.99e+07	1.60	y	1.30	43:18	1.000	0.995-1.005	44.0368	PCB-188	4.97e+07	1.06	y	1.58	43:05	1.001	0.995-1.005	47.5864
PCB-127	3.22e+07	1.63	y	1.33	43:37	1.000	0.996-1.006	44.9108	PCB-184	5.27e+07	1.05	y	1.63	43:32	1.011	1.006-1.016	48.8872
PCB-126	2.58e+07	1.57	y	1.18	45:32	1.000	0.995-1.005	44.2603	PCB-179	4.20e+07	1.04	y	1.30	44:18	1.029	1.024-1.034	48.7575
									PCB-176	4.72e+07	1.08	y	1.48	44:46	1.040	1.035-1.045	48.3855
PCB-155	4.29e+07	1.26	y	1.11	37:17	1.001	0.966-1.006	47.5367	PCB-186	4.75e+07	1.07	y	1.45	45:23	1.054	1.049-1.059	49.4637
PCB-150	3.91e+07	1.26	y	1.00	38:33	1.035	1.030-1.040	48.3101	PCB-178	3.50e+07	1.07	y	1.03	45:52	1.065	1.060-1.070	51.1642
PCB-152	4.41e+07	1.25	y	1.12	39:01	1.047	1.043-1.052	48.7407	PCB-175	3.39e+07	1.07	y	1.01	46:13	1.073	1.069-1.079	50.6905
PCB-145	4.71e+07	1.28	y	1.20	39:28	1.059	1.054-1.064	48.3798	PCB-182/187	8.35e+07	1.07	y	1.25	46:23	1.077	1.073-1.083	100.901
PCB-136	4.86e+07	1.41	y	1.18	39:48	1.068	1.063-1.073	50.8828	PCB-183	3.96e+07	1.04	y	1.21	46:42	1.085	1.080-1.090	49.5326
PCB-148	2.66e+07	1.03	n	0.74	39:54	1.071	1.066-1.076	44.1789	PCB-185	4.48e+07	1.06	y	1.80	47:22	0.956	0.951-0.961	46.9486
PCB-154	3.63e+07	1.28	y	0.86	40:23	1.084	1.079-1.089	52.2340	PCB-174	3.73e+07	1.06	y	1.38	47:44	0.963	0.958-0.968	51.1028
PCB-151	3.14e+07	1.26	y	0.75	41:01	1.101	1.095-1.107	51.8506	PCB-181	3.40e+07	1.06	y	1.38	47:51	0.965	0.960-0.970	46.5248
PCB-135	3.41e+07	1.26	y	0.79	41:14	1.107	1.101-1.113	53.0128	PCB-177	3.28e+07	1.05	y	1.26	48:00	0.969	0.964-0.974	49.3454
PCB-144	3.10e+07	1.27	y	0.76	41:21	1.110	1.105-1.116	50.2139	PCB-171	4.07e+07	1.02	y	1.58	48:18	0.974	0.970-0.980	48.5557
PCB-147	3.51e+07	1.28	y	0.82	41:29	1.113	1.107-1.119	52.8605	PCB-173	2.93e+07	1.07	y	1.11	48:44	0.983	0.978-0.988	49.7665
PCB-139/149	6.35e+07	1.28	y	0.76	41:44	1.120	1.115-1.127	102.742	PCB-172	4.32e+07	1.03	y	1.63	49:10	0.992	0.987-0.997	49.9301
- PCB-140	3.08e+07	1.27	y	0.72	41:55	1.125	1.120-1.132	52.6803	PCB-192	4.45e+07	1.05	y	1.74	49:22	0.996	0.991-1.001	48.2955
- PCB-134/143	6.37e+07	1.24	y	0.92	42:21	0.975	0.970-0.980	97.1150	PCB-180	3.50e+07	1.05	y	1.34	49:35	1.000	0.995-1.005	49.0874

37.5-62.5  
\* used only

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMS

Date: 9/23/14

Client ID: PCB CS3 14F1302  
Lab ID: ST140922E1-2

Filename: 140922E1 S:2 Acq:22-SEP-14 16:29:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST140922E1-2  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	4.31e+07	1.04 y	1.72	49:47	1.004	1.000-1.010		47.4682
PCB-191	4.22e+07	1.05 y	1.69	50:01	1.009	1.005-1.015		47.0245
PCB-170	3.36e+07	1.05 y	1.60	51:03	1.000	0.995-1.005		48.7442
PCB-190	4.42e+07	1.06 y	2.21	51:12	1.003	0.999-1.009		46.3267
PCB-189	4.11e+07	1.06 y	1.55	52:31	1.000	0.995-1.005		48.0791 *
PCB-202	3.63e+07	0.90 y	1.08	48:30	1.000	0.995-1.005		47.5206
PCB-201	3.92e+07	0.90 y	1.15	48:59	1.010	1.005-1.015		48.1927
PCB-204	3.83e+07	0.91 y	1.14	49:08	1.014	1.009-1.019		47.6031
PCB-197	3.66e+07	0.92 y	1.07	49:27	1.020	1.015-1.025		48.2769
PCB-200	3.59e+07	0.91 y	1.06	50:19	1.038	1.034-1.044		47.8078
PCB-198	2.87e+07	0.91 y	0.76	51:38	1.065	1.062-1.072		53.8326
PCB-199	2.83e+07	0.90 y	0.80	51:44	1.067	1.064-1.074		50.2044
- PCB-196/203	5.95e+07	0.88 y	0.80	51:60	1.072	1.070-1.080		105.057
- PCB-195	1.73e+07	0.87 y	1.23	53:09	0.985	0.979-0.989		46.9002 *
PCB-194	1.59e+07	0.92 y	1.21	54:00	1.000	0.995-1.005		43.6777 ↓
PCB-205	2.07e+07	0.90 y	1.54	54:17	1.006	1.000-1.010		44.7149 ↓
PCB-208	2.77e+07	1.32 y	0.93	53:17	1.000	0.995-1.005		47.5764
PCB-207	3.16e+07	1.33 y	1.08	53:35	1.006	1.001-1.011		46.6281
PCB-206	1.72e+07	1.31 y	1.02	55:40	1.000	0.995-1.005		44.5751
PCB-209	2.23e+07	1.14 y	1.17	57:01	1.000	0.995-1.005		46.0931

37.5-67.5



\* = used only.

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	1.68e+08	2.90 y	16:21	1.27	147.184
Total Di-PCB	1.06e+09	1.53 y	20:18	1.21	996.477
Total Tri-PCB	2.78e+08	1.05 y	24:28	1.10	461.904
Total Tetra-PCB	2.97e+08	0.97 y	28:09	1.21	674.939
					Sum:1136.84
Total Penta-PCB	1.33e+09	0.72 y	28:12	1.09	1905.85
Total Hexa-PCB	1.46e+09	1.55 y	32:54	1.18	1736.71
Total Hepta-PCB	1.59e+08	1.60 y	42:26	1.25	246.104
Total Octa-PCB	4.84e+08	1.26 y	37:17	0.90	659.444
Total Nona-PCB	1.10e+09	1.24 y	42:21	1.11	1346.15
Total Deca-PCB	9.84e+08	1.06 y	43:05	1.42	1181.13
					Sum:2005.59
Total Mono-PCB	3.03e+08	0.90 y	48:30	0.96	448.495
Total Di-PCB	5.50e+07	0.87 y	53:09	1.33	138.089
Total Tri-PCB	7.78e+07	1.32 y	53:17	1.01	141.236
Total Tetra-PCB	2.23e+07	1.14 y	57:01	1.17	46.0931
Total Penta-PCB					Sum:586.585

Total PCB Conc:10106.7909520

Integrations  
by  
Analyst: DMS  
Date: 9/23/14  
RL: MONO, TRI - DECA: \_\_\_\_\_

Client ID: PCB CS3 14F1302  
Lab ID: ST140922E1-2

Filename: 140922E1 S:2 Acq:22-SEP-14 16:29:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

ConCal: ST140922E1-2  
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	8.24e+07	3.47 y	0.87	16:20	0.624	0.620-0.626		89.8	89.8											
13C-PCB-3	9.35e+07	3.57 y	0.91	18:57	0.724	0.719-0.727		97.5	97.5		13C-PCB-79	1.25e+06	2.32 n	1.02	37:16	1.008	1.024-1.034		1.53	1.53
13C-PCB-4	5.31e+07	1.62 y	0.59	20:17	0.776	0.771-0.779		86.1	86.1		13C-PCB-178	4.71e+07	0.46 y	0.61	45:51	0.984	0.980-0.990		116	116
13C-PCB-9	8.85e+07	1.57 y	0.90	22:04	0.844	0.839-0.847		93.9	93.9											
13C-PCB-11	9.65e+07	1.57 y	0.94	25:27	0.973	0.968-0.978		97.8	97.8	PS vs. IS										
13C-PCB-19	3.67e+07	1.17 y	0.53	24:26	0.934	0.929-0.939		65.6	65.6											
13C-PCB-28	3.61e+07	0.97 y	0.93	29:18	1.004	0.999-1.009		95.1	95.1		13C-PCB-79	8.00e+07	0.76 y	1.10	38:02	0.969	0.964-0.974		104	104
13C-PCB-32	6.45e+07	1.14 y	0.80	27:21	1.046	1.041-1.051		77.0	77.0		13C-PCB-178	7.12e+05	0.46 y	0.90	48:29	0.978	0.920-0.930		1.50	1.50
13C-PCB-37	3.74e+07	1.02 y	0.84	33:11	1.137	1.131-1.143		109	109											
13C-PCB-47	5.89e+07	0.76 y	0.81	32:13	0.871	0.867-0.875		90.2	90.2											
13C-PCB-52	5.63e+07	0.78 y	0.77	31:43	0.858	0.853-0.861		90.9	90.9											
13C-PCB-54	7.44e+07	0.75 y	0.97	28:11	0.762	0.757-0.765		95.5	95.5											
13C-PCB-70	7.08e+07	0.77 y	1.00	35:44	0.966	0.961-0.971		88.2	88.2											
13C-PCB-77	6.97e+07	0.77 y	0.94	39:51	1.078	1.073-1.083		92.1	92.1											
13C-PCB-80	7.23e+07	0.76 y	1.03	36:09	0.977	0.973-0.983		87.2	87.2											
13C-PCB-81	6.98e+07	0.78 y	0.92	39:15	1.061	1.057-1.067		94.3	94.3											
13C-PCB-95	6.13e+07	1.58 y	0.74	36:02	0.914	0.908-0.918		94.1	94.1	RS										
13C-PCB-97	6.25e+07	1.55 y	0.70	39:01	0.989	0.984-0.994		101	101		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	6.77e+07	1.57 y	0.78	37:43	0.956	0.951-0.961		98.2	98.2		13C-PCB-15	1.05e+08	1.55 y	1.00	26:10	100				
13C-PCB-104	8.12e+07	1.59 y	1.00	32:53	0.834	0.829-0.837		92.2	92.2		13C-PCB-31	4.07e+07	1.01 y	1.00	29:12	100				
13C-PCB-105	5.23e+07	1.51 y	1.37	43:17	0.929	0.924-0.934		57.9	57.9		13C-PCB-60	8.03e+07	0.76 y	1.00	36:59	100				
13C-PCB-114	5.21e+07	1.49 y	1.36	42:25	0.911	0.906-0.916		57.7	57.7		13C-PCB-111	8.79e+07	1.58 y	1.00	39:26	100				
13C-PCB-118	8.39e+07	1.58 y	0.96	41:45	1.059	1.054-1.064		99.5	99.5		13C-PCB-128	6.62e+07	1.26 y	1.00	46:34	100				
13C-PCB-123	8.16e+07	1.59 y	0.89	41:35	1.054	1.049-1.059		104	104		13C-PCB-205	3.77e+07	0.87 y	1.00	54:16	100				
13C-PCB-126	4.93e+07	1.50 y	1.31	45:31	0.977	0.972-0.982		56.9	56.9											
13C-PCB-127	5.39e+07	1.48 y	1.47	43:36	0.936	0.931-0.941		55.2	55.2											
13C-PCB-138	6.91e+07	1.26 y	1.10	45:01	0.966	0.961-0.971		94.9	94.9											
13C-PCB-141	6.59e+07	1.26 y	1.07	44:10	0.948	0.943-0.953		92.6	92.6											
13C-PCB-153	7.15e+07	1.25 y	1.15	43:26	0.933	0.927-0.937		94.2	94.2											
13C-PCB-155	8.11e+07	1.28 y	0.84	37:16	0.945	0.939-0.949		110	110											
13C-PCB-156	8.15e+07	1.27 y	1.30	48:16	1.037	1.032-1.042		94.9	94.9											
13C-PCB-157	8.72e+07	1.25 y	1.36	48:33	1.042	1.037-1.047		97.0	97.0											
13C-PCB-159	7.76e+07	1.26 y	1.25	46:17	0.994	0.989-0.999		93.9	93.9											
13C-PCB-167	8.50e+07	1.24 y	1.35	46:58	1.009	1.004-1.014		95.0	95.0 *											
13C-PCB-169	8.00e+07	1.26 y	1.29	50:40	1.088	1.084-1.094		93.9	93.9											
13C-PCB-170	4.32e+07	0.46 y	0.54	51:02	1.096	1.093-1.103		120	120											
13C-PCB-180	5.30e+07	0.46 y	0.68	49:33	1.064	1.059-1.069		117	117											
13C-PCB-188	6.61e+07	0.46 y	0.92	43:04	0.925	0.920-0.930		109	109											
13C-PCB-189	5.52e+07	0.46 y	0.72	52:30	1.127	1.125-1.137		116	116 *											
13C-PCB-194	3.00e+07	0.91 y	0.80	53:59	0.995	0.990-1.000		99.8	99.8 *											
13C-PCB-202	7.06e+07	0.91 y	0.84	48:29	1.041	1.036-1.046		127	127											
13C-PCB-206	3.77e+07	0.79 y	0.65	55:39	1.026	1.019-1.029		154	154											
13C-PCB-208	6.25e+07	0.76 y	1.08	53:16	0.982	0.977-0.987		153	153											
13C-PCB-209	4.12e+07	1.18 y	0.61	56:60	1.050	1.044-1.054		179	179											

50-145  
↓

Analyst: DMS

Date: 9/23/14

\* = used only.



Vista Analytical Laboratory - Injection Log Run file: 140922E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140922E1	1	ST140922E1-1	DMS	22-SEP-14	15:25:02	ST140922E1-1	ST140922E1-3
140922E1	2	ST140922E1-2	DMS	22-SEP-14	16:29:30	ST140922E1-2	NA
140922E1	3	SOLVENT BLANK	DMS	22-SEP-14	17:33:54	NA	NA
140922E1	4	1400646-01RE1 RI	DMS	22-SEP-14	18:38:18	ST140922E1-1	ST140922E1-3
140922E1	5	1400659-02RE1 RI	DMS	22-SEP-14	19:42:42	ST140922E1-1	NA
140922E1	6	1400647-04RE2 DL 1:40	DMS	22-SEP-14	20:47:04	ST140922E1-2	NA
140922E1	7	SOLVENT BLANK	DMS	22-SEP-14	21:51:28	NA	NA
140922E1	8	SOLVENT BLANK	DMS	22-SEP-14	22:55:51	NA	NA
140922E1	9	ST140922E1-3	DMS	23-SEP-14	00:00:17	ST140922E1-1	ST140922E1-3

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140922E1-2

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 checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> <i>DMB 9/23/14</i>	<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"/> <i>y</i>	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > <u>10,000</u> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▪ Method 1614 > 5,000; CARB 429 > 8,000		<input 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		<input type="checkbox"/>
-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: MS 9/23/14  
*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*  
*MR 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: (M)Date: 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: m)

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

LABELLED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	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
	REFERENCE	RRT	QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002

(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

Page 1 of 2

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: <u>ms</u>			Analyst: <u>gs</u>		
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: <u>4/18/14</u>			Date: <u>4/18/17</u>		

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



Dataset: C:\MassLynx\Default.pro\Results\140701F1\140701F1\_crv.qld

Last Altered: Wednesday, July 02, 2014 07:18:51 Pacific Daylight Time

Printed: Wednesday, July 02, 2014 07:20:56 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 01 Jul 2014 15:50:35

Calibration: C:\MassLynx\Default.pro\Curvedb\ldb-225\_1613TCDFvg9-7-1-14.cdb 02 Jul 2014 07:18:51

Compound name: 2,3,7,8-TCDF

Response Factor: 0.916439

RRF SD: 0.0849787, Relative SD: 9.2727

Response type: Internal Std ( Ref 2 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	140701F1_2	0.250	0.74	NO	16.49	4.76e3	2.17e6	0.239	0.876
2	140701F1_3	0.500	0.72	NO	16.46	6.12e3	1.40e6	0.476	0.872
3	140701F1_4	2.00	0.76	NO	16.46	3.35e4	2.05e6	1.79	0.818
4	140701F1_5	10.0	0.76	NO	16.46	4.31e4	4.82e5	9.77	0.895
5	140701F1_11	40.0	0.77	NO	16.46	5.53e5	1.39e6	43.3	0.992
6	140701F1_7	200	0.78	NO	16.46	4.45e6	2.13e6	228	1.05

*CP 7/2/14*

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 0.986637

RRF SD: 0.0146992, Relative SD: 1.48983

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	140701F1_2	100	0.79	NO	16.46	2.17e6	2.24e6	98.4	0.971
2	140701F1_3	100	0.81	NO	16.44	1.40e6	1.45e6	98.0	0.967
3	140701F1_4	100	0.79	NO	16.45	2.05e6	2.05e6	101	0.997
4	140701F1_5	100	0.79	NO	16.44	4.82e5	4.90e5	99.8	0.984
5	140701F1_11	100	0.79	NO	16.45	1.39e6	1.40e6	101	0.998
6	140701F1_7	100	0.79	NO	16.44	2.13e6	2.13e6	101	1.00

*- Bad injection on CS4,  
 RI. See log CP 7/2/14*

*CP 7/2/14*

Vista Analytical Laboratory VG-9

Dataset: C:\MassLynx\Default.pro\Results\140701F1\140701F1\_crv.qld

Last Altered: Wednesday, July 02, 2014 07:18:51 Pacific Daylight Time

Printed: Wednesday, July 02, 2014 07:20:56 Pacific Daylight Time

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

#	Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	140701F1_2	100	0.78	NO	14.29	2.24e6	2.24e6	100	1.00
2	140701F1_3	100	0.80	NO	14.28	1.45e6	1.45e6	100	1.00
3	140701F1_4	100	0.79	NO	14.28	2.05e6	2.05e6	100	1.00
4	140701F1_5	100	0.80	NO	14.27	4.90e5	4.90e5	100	1.00
5	140701F1_11	100	0.79	NO	14.28	1.40e6	1.40e6	100	1.00
6	140701F1_7	100	0.79	NO	14.29	2.13e6	2.13e6	100	1.00

**Compound name: 13C-1,2,3,4-TCDD**

No Calibration

Response type: External Std, Area

Curve type: RF

#	Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	140701F1_2	0.000	0.79	NO	15.03	1.89e6			0.000
2	140701F1_3	0.000	0.78	NO	15.02	1.19e6			0.000
3	140701F1_4	0.000	0.79	NO	15.02	1.62e6			0.000
4	140701F1_5	0.000	0.71	NO	15.01	4.32e5			0.000
5	140701F1_11	0.000	0.80	NO	15.02	1.22e6			0.000
6	140701F1_7	0.000	0.79	NO	15.02	1.62e6			0.000

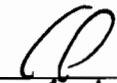
FORM 4A  
 PCDD/PCDF CALIBRATION VERIFICATION  
 CCAL ID: ST140701F1-4

Vista Analytical Laboratory  
 Initial Calibration Date: 07/01/2014  
 Instrument ID: VG-9  
 VER Data file name: 140701F1\_5

GC Column ID: DB-225  
 Analysis Date: 01-Jul-14  
 Analysis Time: 15:48:57

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC.	CONC.	CONC.	CONC.
						RANGE (3) (ng/ml)	RANGE (3) (ng/ml)	RANGE (ng/ml)	RANGE (ng/ml)
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	NO	9.77	8.4 8.6	12.0 11.6 (4)	Yes 8.00	8290 Max 12.0 Yes

- (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:   
 Date: 7/2/14

FORM 4B  
 PCDD/PCDF CALIBRATION VERIFICATION  
 CCAL ID: ST140701F1-4

Vista Analytical Laboratory  
 Initial Calibration Date: 07/01/2014  
 Instrument ID: VG-9  
 VER Data file name: 140701F1\_5

GC Column ID: DB-225  
 Analysis Date: 01-Jul-14      Analysis Time: 15:48:57

Labeled Compounds	M/Z'S FORMING RATIO (1)	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC. RANGE (3)	CONC. RANGE (3)	CONC. RANGE (ng/ml)	CONC. RANGE (ng/ml)	Yes
						1613 Min	1613 Max	8290 Min	8290 Max	
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	NO	99.8	71.0	140.0	70.0	130.0	Yes
						76.0	131.0 (5)			

- (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) No ion abundance ratio; report concentration found
- (5) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only

Analyst: CP  
 Date: 7/2/14

Dataset: C:\MassLynx\Default.pro\Results\140701F1\140701F1\_crv.qld

Last Altered: Wednesday, July 02, 2014 07:18:51 Pacific Daylight Time  
Printed: Wednesday, July 02, 2014 07:19:32 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 01 Jul 2014 15:50:35  
Calibration: 02 Jul 2014 07:18:51

Name: 140701F1\_5, Date: 01-Jul-2014, Time: 15:48:57, ID: ST140701F1-4 1613 CS3 14L1811, Description: 1613 CS3 14L1811

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	4.31e4	0.76	NO	0.916	1.000	16.46	9.7659	97.7	0.735
2	13C-2,3,7,8-TCDF	4.82e5	0.79	NO	0.987	1.000	16.44	99.760	99.8	34.9
3	13C-1,2,3,4-TCDF	4.90e5	0.80	NO	1.00	1.000	14.27	100.00	100	34.4
4	13C-1,2,3,4-TCDD	4.32e5	0.71	NO		1.000	15.01			

Dataset: Untitled

Last Altered: Wednesday, July 02, 2014 07:22:30 Pacific Daylight Time  
Printed: Wednesday, July 02, 2014 07:22:44 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 01 Jul 2014 15:50:35  
Calibration: C:\MassLynx\Default.pro\Curvedb\ldb-225\_1613TCDFvg9-7-1-14.cdb 02 Jul 2014 07:18:51

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	140701F1_1	CP140701F1-1 DB-225 CPSM	01-Jul-14	13:43:37
2	140701F1_2	ST140701F1-1 1613 CS0 14L1808	01-Jul-14	14:14:40
3	140701F1_3	ST140701F1-2 1613 CS1 14L1809	01-Jul-14	14:46:03
4	140701F1_4	ST140701F1-3 1613 CS2 14B1101	01-Jul-14	15:17:30
5	140701F1_5	ST140701F1-4 1613 CS3 14L1811	01-Jul-14	15:48:57
6	140701F1_6	ST140701F1-5 1613 CS4 14L1812	01-Jul-14	16:20:23
7	140701F1_7	ST140701F1-6 1613 CS5 1B1102	01-Jul-14	16:51:49
8	140701F1_8	SOLVENT BLANK	01-Jul-14	17:23:10
9	140701F1_9	SS140701F1-1 1613 SSS 13J3107	01-Jul-14	17:54:30
10	140701F1_10	SOLVENT BLANK	01-Jul-14	18:27:42
11	140701F1_11	ST140701F1-7 1613 CS4 14L1812	01-Jul-14	18:57:50

ⓐ Bad injection. RT as 140701\_11 P 7/2/14

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	5.0	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*

PCB-48/75	1.30	10.70 %	1.52	1.28	1.33	1.31	1.08	1.30
PCB-65	1.33	13.12 %	1.67	1.30	1.28	1.32	1.15	1.30
PCB-62	1.29	10.74 %	1.39	1.40	1.30	1.38	1.03	1.25
PCB-44	0.94	10.79 %	1.08	0.90	0.98	0.98	0.78	0.92
PCB-42/59	1.22	9.45 %	1.36	1.25	1.21	1.26	1.01	1.21
PCB-41/64/71/72	1.31	8.83 %	1.48	1.32	1.28	1.35	1.12	1.33
PCB-68	1.49	9.40 %	1.63	1.59	1.48	1.51	1.23	1.46
PCB-40	0.82	12.75 %	0.99	0.83	0.82	0.83	0.67	0.78
PCB-57	1.11	10.20 %	1.26	1.18	1.11	1.15	0.92	1.07
PCB-67	1.07	9.89 %	1.05	1.20	1.12	1.15	0.90	1.03
PCB-58	1.10	11.05 %	1.29	1.13	1.12	1.09	0.91	1.07



PCB-63	1.12	7.49 %	1.17	1.17	1.14	1.16	0.95	1.12
PCB-74	1.20	8.89 %	1.31	1.27	1.22	1.25	1.00	1.18
PCB-61/70	1.08	8.22 %	1.18	1.13	1.08	1.10	0.92	1.06
PCB-76/66	1.14	10.54 %	1.31	1.18	1.12	1.17	0.94	1.10
PCB-80	1.28	9.96 %	1.46	1.33	1.28	1.28	1.07	1.24
PCB-55	1.11	7.19 %	1.16	1.17	1.10	1.14	0.96	1.12
PCB-56/60	1.09	10.58 %	1.26	1.12	1.07	1.09	0.91	1.07
PCB-79	1.12	8.90 %	1.26	1.11	1.12	1.15	0.95	1.13
PCB-78	1.24	11.08 %	1.43	1.32	1.20	1.27	1.02	1.18
PCB-81	1.38	9.94 %	1.51	1.50	1.41	1.41	1.14	1.31
PCB-77	1.21	8.98 %	1.33	1.26	1.22	1.25	1.02	1.17
PCB-104	1.26	10.21 %	1.42	1.31	1.28	1.27	1.03	1.22
PCB-96	1.09	9.49 %	1.24	1.12	1.08	1.10	0.92	1.10
PCB-103	0.93	8.17 %	1.00	0.98	0.89	0.95	0.80	0.98
PCB-100	1.00	7.45 %	1.03	1.08	0.97	1.01	0.87	1.05
PCB-94	1.11	11.35 %	1.31	1.11	1.11	1.13	0.91	1.08
PCB-95/98/102	1.21	9.28 %	1.36	1.25	1.18	1.30	1.04	1.17
PCB-93	1.13	18.48 %	1.36	1.34	1.21	0.95	0.84	1.08
PCB-88/91	1.02	8.29 %	1.00	1.06	1.02	1.15	0.89	1.00
PCB-121	1.90	16.11 %	2.27	2.21	1.94	1.69	1.46	1.85
PCB-84/92	1.05	9.56 %	1.15	1.13	1.05	1.09	0.87	1.02
PCB-89	1.02	10.73 %	1.15	1.04	1.02	1.08	0.83	0.98
PCB-90/101	1.19	9.91 %	1.34	1.26	1.19	1.21	0.99	1.15
PCB-113	1.35	10.72 %	1.54	1.26	1.32	1.51	1.16	1.33
PCB-99	1.29	12.88 %	1.43	1.48	1.35	1.20	1.03	1.24
PCB-119	1.72	7.60 %	1.78	1.88	1.72	1.73	1.48	1.73
PCB-108/112	1.29	7.44 %	1.31	1.39	1.29	1.33	1.10	1.30
PCB-83	1.52	7.96 %	1.66	1.53	1.51	1.58	1.30	1.54
PCB-97	1.25	8.07 %	1.35	1.26	1.27	1.32	1.06	1.23
PCB-86	1.02	10.03 %	1.19	0.96	1.05	0.98	0.90	1.06
PCB-87/117/125	1.56	6.32 %	1.67	1.60	1.55	1.59	1.37	1.57
PCB-111/115	1.75	13.48 %	2.16	1.80	1.69	1.76	1.43	1.66
PCB-85/116	1.30	6.67 %	1.30	1.35	1.33	1.34	1.13	1.35
PCB-120	1.78	10.02 %	2.08	1.80	1.76	1.75	1.52	1.77
PCB-110	1.68	10.37 %	1.90	1.78	1.65	1.72	1.38	1.64
PCB-82	0.74	11.58 %	0.83	0.83	0.73	0.73	0.60	0.71
PCB-124	1.32	11.30 %	1.54	1.34	1.33	1.32	1.07	1.33
PCB-107/109	1.22	8.01 %	1.35	1.31	1.18	1.24	1.08	1.17
PCB-123	1.22	9.00 %	1.30	1.30	1.23	1.28	1.01	1.20
PCB-106/118	1.22	9.57 %	1.37	1.27	1.25	1.26	1.01	1.19
PCB-114	1.36	10.69 %	1.57	1.37	1.36	1.37	1.11	1.35
PCB-122	1.24	10.69 %	1.41	1.32	1.20	1.25	1.02	1.22
PCB-105	1.28	7.83 %	1.36	1.29	1.33	1.34	1.09	1.28
PCB-127	1.14	11.20 %	1.33	1.18	1.14	1.16	0.94	1.09
PCB-126	1.28	9.08 %	1.46	1.28	1.28	1.32	1.10	1.27
PCB-155	1.14	7.40 %	1.11	1.20	1.18	1.20	0.98	1.15
PCB-150	1.06	7.11 %	1.15	1.04	1.05	1.11	0.94	1.10
PCB-152	1.10	11.78 %	1.32	1.08	1.06	1.12	0.92	1.09
PCB-145	1.09	12.69 %	1.35	1.06	1.05	1.11	0.92	1.08
PCB-136	1.08	11.65 %	1.25	1.02	1.08	1.14	0.88	1.14

PCB-148	0.74	7.71 %	0.84	0.75	0.68	0.75	0.70	0.72
PCB-154	0.88	8.65 %	0.96	0.88	0.88	0.93	0.74	0.91
PCB-151	0.81	9.63 %	0.91	0.82	0.78	0.86	0.68	0.81
PCB-135	0.78	6.32 %	0.83	0.75	0.76	0.81	0.70	0.82
PCB-144	0.82	10.98 %	0.93	0.81	0.78	0.90	0.68	0.82
PCB 147	0.83	12.38 %	1.00	0.76	0.78	0.88	0.70	0.85
PCB-139/149	0.84	7.77 %	0.91	0.82	0.83	0.91	0.73	0.86
PCB-140	0.79	11.18 %	0.91	0.73	0.76	0.86	0.66	0.80
PCB-134/143	0.93	12.49 %	1.13	0.94	0.90	0.94	0.78	0.87
PCB-133/142	0.95	11.69 %	1.12	0.98	0.91	0.96	0.79	0.90
PCB-131	0.91	13.39 %	1.11	0.96	0.90	0.90	0.74	0.87

PCB-146/165	1.16	9.91 %	1.33	1.19	1.14	1.16	0.97	1.13
PCB-132/161	1.11	10.87 %	1.31	1.14	1.09	1.13	0.93	1.07
PCB-153	1.18	8.19 %	1.21	1.24	1.26	1.18	0.99	1.18
PCB-168	1.37	10.18 %	1.56	1.44	1.37	1.37	1.14	1.35
PCB-141	0.97	8.49 %	1.08	1.00	0.97	0.99	0.83	0.99
PCB-137	1.07	6.76 %	1.12	1.16	1.05	1.03	0.96	1.11
PCB-130	0.85	9.16 %	0.85	0.83	0.87	0.94	0.71	0.69
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

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	0.92	8.86 %	1.03	0.90	0.89	0.96	0.78	0.93
Total Octa-PCB	1.08	8.82 %	1.20	1.12	1.08	1.10	0.91	1.07
Total Nona-PCB	1.27	10.02 %	1.44	1.31	1.27	1.30	1.05	1.26
Total Deca-PCB	0.92	9.46 %	1.04	0.94	0.89	0.95	0.77	0.91
Total Tri-PCB	1.29	11.68 %	1.54	1.29	1.26	1.30	1.08	1.24
Total Tetra-PCB	0.96	11.85 %	1.15	0.98	0.94	0.96	0.79	0.93
Total Penta-PCB	1.18	8.31 %	1.27	1.19	1.21	1.23	0.99	1.16
13C-PCB-1	0.89	8.16 %	0.97	0.94	0.91	0.88	0.88	0.76
13C-PCB-3	0.93	4.27 %	0.98	0.94	0.94	0.93	0.91	0.86
13C-PCB-4	0.55	3.55 %	0.56	0.57	0.56	0.55	0.53	0.52
13C-PCB-9	0.83	2.91 %	0.84	0.85	0.84	0.82	0.80	0.79
13C-PCB-11	0.94	1.99 %	0.94	0.96	0.96	0.92	0.93	0.91
13C-PCB-19	0.53	4.01 %	0.55	0.55	0.55	0.53	0.52	0.50
13C-PCB-32	0.81	1.81 %	0.83	0.82	0.83	0.81	0.81	0.79
13C-PCB-28	0.89	8.44 %	0.79	0.91	0.83	0.85	0.96	0.98
13C-PCB-37	0.83	4.85 %	0.80	0.83	0.80	0.80	0.87	0.89
13C-PCB-54	0.85	5.64 %	0.86	0.89	0.91	0.84	0.83	0.77
13C-PCB-52	0.71	4.89 %	0.72	0.74	0.75	0.70	0.68	0.66
13C-PCB-47	0.74	4.31 %	0.74	0.78	0.78	0.73	0.73	0.70
13C-PCB-70	0.94	2.25 %	0.96	0.97	0.96	0.93	0.94	0.91
13C-PCB-80	0.96	2.89 %	0.96	1.00	0.99	0.95	0.95	0.92
13C-PCB-81	0.84	2.20 %	0.83	0.82	0.84	0.82	0.86	0.86
13C-PCB-77	0.89	1.89 %	0.88	0.87	0.90	0.88	0.91	0.91
13C-PCB-104	1.00	6.42 %	0.99	1.06	1.07	0.98	0.96	0.90
13C-PCB-95	0.74	2.70 %	0.74	0.78	0.75	0.73	0.74	0.72
13C-PCB-101	0.79	2.14 %	0.79	0.81	0.79	0.77	0.78	0.77
13C-PCB-97	0.69	1.41 %	0.70	0.69	0.70	0.69	0.69	0.67
13C-PCB-123	0.95	4.62 %	0.88	0.92	0.98	1.00	0.95	0.97
13C-PCB-118	0.98	3.93 %	0.92	0.95	0.99	1.03	1.01	0.99
13C-PCB-114	1.21	3.28 %	1.26	1.20	1.21	1.18	1.25	1.15
13C-PCB-105	1.24	3.05 %	1.26	1.24	1.25	1.20	1.29	1.19
13C-PCB-127	1.34	2.73 %	1.37	1.34	1.38	1.29	1.36	1.30
13C-PCB-126	1.16	2.72 %	1.16	1.17	1.20	1.12	1.19	1.14
13C-PCB-155	0.83	3.93 %	0.86	0.87	0.84	0.83	0.81	0.78
13C-PCB-153	1.11	2.81 %	1.14	1.11	1.13	1.10	1.15	1.06
13C-PCB-141	1.07	3.72 %	1.13	1.09	1.09	1.06	1.06	1.01
13C-PCB-138	1.04	2.24 %	1.06	1.05	1.06	1.02	1.06	1.01
13C-PCB-159	1.20	1.72 %	1.21	1.19	1.22	1.17	1.22	1.19
13C-PCB-167	1.32	1.88 %	1.32	1.33	1.36	1.29	1.32	1.31
13C-PCB-156	1.24	1.98 %	1.23	1.25	1.28	1.21	1.26	1.24
13C-PCB-157	1.31	1.61 %	1.31	1.31	1.34	1.28	1.33	1.29
13C-PCB-169	1.22	1.81 %	1.22	1.21	1.25	1.19	1.22	1.20
13C-PCB-188	0.94	3.81 %	0.97	0.93	0.93	0.93	0.98	0.88
13C-PCB-180	0.67	2.62 %	0.71	0.67	0.67	0.67	0.67	0.65
13C-PCB-170	0.54	1.49 %	0.55	0.54	0.54	0.53	0.54	0.52
13C-PCB-189	0.72	1.73 %	0.72	0.70	0.73	0.73	0.71	0.70
13C-PCB-202	0.83	2.31 %	0.86	0.83	0.83	0.84	0.84	0.80

13C-PCB-194	0.81	1.33 %	0.82	0.82	0.82	0.80	0.81	0.79
13C-PCB-208	1.12	2.11 %	1.10	1.14	1.13	1.14	1.14	1.09
13C-PCB-206	0.66	3.31 %	0.63	0.65	0.66	0.70	0.65	0.65
13C-PCB-209	0.61	2.62 %	0.59	0.60	0.62	0.64	0.61	0.62
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.01	4.78 %	0.97	0.97	0.99	1.09	0.99	1.02
13C-PCB-178	0.63	4.30 %	0.62	0.61	0.62	0.69	0.62	0.62
13C-PCB-79	1.20	5.38 %	1.18	1.18	1.17	1.33	1.15	1.19
13C-PCB-178	0.94	5.01 %	0.88	0.91	0.92	1.02	0.93	0.96

Filename: 140620E1 S: 1      Acquired: 20-JUN-14 09:31:44  
 Run: 140620E1    Analyte:            ICal: PCBVG8-6-20-14      Results:  
 Sample text: ST140620E1-1 PCB CS0 13H1202

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	4.35e+05	2.82 y	16:14	-	1.37
2	Mono	PCB-2	0.25	4.10e+05	3.17 y	18:35	-	1.27
3	Mono	PCB-3	0.25	4.22e+05	2.92 y	18:49	-	1.31
4	Di	PCB-4/10	1.00	1.23e+06	1.61 y	20:10	-	1.67
5	Di	PCB-7/9	1.00	1.58e+06	1.70 y	21:56	-	1.43
6	Di	PCB-6	0.50	8.23e+05	1.36 y	22:35	-	1.49
7	Di	PCB-5/8	1.00	1.42e+06	1.76 y	23:00	-	1.29
8	Di	PCB-14	0.50	8.96e+05	1.59 y	24:05	-	1.45
9	Di	PCB-11	0.50	8.18e+05	1.39 y	25:16	-	1.33
10	Di	PCB-12/13	1.00	1.48e+06	1.71 y	25:40	-	1.20
11	Di	PCB-15	0.50	8.65e+05	1.43 y	25:58	-	1.40
12	Tri	PCB-19	0.25	2.94e+05	1.11 y	24:16	-	1.63
13	Tri	PCB-30	0.25	3.70e+05	0.89 y	25:09	-	2.06
14	Tri	PCB-18	0.25	2.78e+05	1.19 y	25:54	-	1.03
15	Tri	PCB-17	0.25	2.82e+05	0.94 y	26:04	-	1.04
16	Tri	PCB-24/27	0.50	7.21e+05	1.01 y	26:38	-	1.33
17	Tri	PCB-16/32	0.50	6.64e+05	1.06 y	27:09	-	1.23
18	Tri	PCB-34	0.25	3.70e+05	1.06 y	27:56	-	1.47
19	Tri	PCB-23	0.25	3.85e+05	1.19 y	28:02	-	1.54
20	Tri	PCB-29	0.25	4.36e+05	1.18 y	28:17	-	1.74
21	Tri	PCB-26	0.25	4.07e+05	0.97 y	28:29	-	1.62
22	Tri	PCB-25	0.25	4.10e+05	1.07 y	28:39	-	1.63
23	Tri	PCB-31	0.25	4.70e+05	1.15 y	29:00	-	1.87
24	Tri	PCB-28	0.25	4.03e+05	1.12 y	29:07	-	1.60
25	Tri	PCB-20/21/33	0.75	1.20e+06	1.11 y	29:43	-	1.59
26	Tri	PCB-22	0.25	3.76e+05	1.05 y	30:10	-	1.50
27	Tri	PCB-36	0.25	3.74e+05	1.12 y	30:47	-	1.47
28	Tri	PCB-39	0.25	3.99e+05	1.02 y	31:14	-	1.58
29	Tri	PCB-38	0.25	3.51e+05	1.20 y	32:00	-	1.39
30	Tri	PCB-35	0.25	3.85e+05	1.07 y	32:32	-	1.52
31	Tri	PCB-37	0.25	4.00e+05	0.99 y	32:58	-	1.58
32	Tetra	PCB-54	0.25	3.02e+05	0.84 y	27:59	-	1.29
33	Tetra	PCB-50	0.25	2.51e+05	0.85 y	29:09	-	1.08
34	Tetra	PCB-53	0.25	2.75e+05	0.70 y	29:47	-	1.42
35	Tetra	PCB-51	0.25	2.35e+05	0.68 y	30:08	-	1.21
36	Tetra	PCB-45	0.25	2.02e+05	0.82 y	30:34	-	1.04
37	Tetra	PCB-46	0.25	2.36e+05	0.75 y	31:04	-	1.21
38	Tetra	PCB-52/69	0.50	5.24e+05	0.82 y	31:32	-	1.35
39	Tetra	PCB-73	0.25	2.76e+05	0.88 y	31:39	-	1.42
40	Tetra	PCB-43/49	0.50	5.07e+05	0.72 y	31:49	-	1.30



41	Tetra	PCB-47	0.25	2.69e+05	0.78 y	32:00	-	1.34
42	Tetra	PCB-48/75	0.50	6.11e+05	0.75 y	32:07	-	1.52
43	Tetra	PCB-65	0.25	3.35e+05	0.81 y	32:23	-	1.67
44	Tetra	PCB-62	0.25	2.78e+05	0.66 y	32:30	-	1.39
45	Tetra	PCB-44	0.25	2.18e+05	0.67 y	32:48	-	1.08
46	Tetra	PCB-42/59	0.50	5.48e+05	0.72 y	33:02	-	1.36
47	Tetra	PCB-41/64/71/72	1.00	1.19e+06	0.71 y	33:37	-	1.48
48	Tetra	PCB-68	0.25	3.28e+05	0.80 y	33:52	-	1.63
49	Tetra	PCB-40	0.25	1.99e+05	0.82 y	34:05	-	0.99
50	Tetra	PCB-57	0.25	3.26e+05	0.66 y	34:27	-	1.26
51	Tetra	PCB-67	0.25	2.73e+05	0.74 y	34:45	-	1.05

52	Tetra	PCB-58	0.25	3.35e+05	0.79 y	34:52	-	1.29
53	Tetra	PCB-63	0.25	3.04e+05	0.78 y	35:01	-	1.17
54	Tetra	PCB-74	0.25	3.39e+05	0.76 y	35:18	-	1.31
55	Tetra	PCB-61/70	0.50	6.13e+05	0.75 y	35:29	-	1.18
56	Tetra	PCB-76/66	0.50	6.79e+05	0.81 y	35:42	-	1.31
57	Tetra	PCB-80	0.25	3.81e+05	0.73 y	35:56	-	1.46
58	Tetra	PCB-55	0.25	3.04e+05	0.81 y	36:16	-	1.16
59	Tetra	PCB-56/60	0.50	6.61e+05	0.75 y	36:46	-	1.26
60	Tetra	PCB-79	0.25	3.31e+05	0.86 y	37:48	-	1.26
61	Tetra	PCB-78	0.25	3.20e+05	0.80 y	38:30	-	1.43
62	Tetra	PCB-81	0.25	3.39e+05	0.75 y	39:02	-	1.51
63	Tetra	PCB-77	0.25	3.19e+05	0.68 y	39:38	-	1.33
64	Penta	PCB-104	0.25	2.39e+05	1.52 y	32:40	-	1.42
65	Penta	PCB-96	0.25	2.08e+05	1.62 y	33:56	-	1.24
66	Penta	PCB-103	0.25	1.68e+05	1.38 y	34:27	-	1.00
67	Penta	PCB-100	0.25	1.73e+05	1.61 y	34:49	-	1.03
68	Penta	PCB-94	0.25	1.64e+05	1.42 y	35:17	-	1.31
69	Penta	PCB-95/98/102	0.75	5.11e+05	1.73 y	35:45	-	1.36
70	Penta	PCB-93	0.25	1.71e+05	1.64 y	35:54	-	1.36
71	Penta	PCB-88/91	0.50	2.51e+05	1.76 y	36:10	-	1.00
72	Penta	PCB-121	0.25	2.86e+05	1.39 y	36:17	-	2.27
73	Penta	PCB-84/92	0.50	3.08e+05	1.45 y	37:07	-	1.15
74	Penta	PCB-89	0.25	1.54e+05	1.32 y	37:19	-	1.15
75	Penta	PCB-90/101	0.50	3.59e+05	1.43 y	37:29	-	1.34
76	Penta	PCB-113	0.25	2.06e+05	1.63 y	37:44	-	1.54
77	Penta	PCB-99	0.25	1.92e+05	1.34 y	37:49	-	1.43
78	Penta	PCB-119	0.25	2.11e+05	1.49 y	38:18	-	1.78
79	Penta	PCB-108/112	0.50	3.11e+05	1.68 y	38:27	-	1.31
80	Penta	PCB-83	0.25	1.96e+05	1.33 y	38:37	-	1.66
81	Penta	PCB-97	0.25	1.60e+05	1.69 y	38:48	-	1.35
82	Penta	PCB-86	0.25	1.41e+05	1.52 y	38:56	-	1.19
83	Penta	PCB-87/117/125	0.75	5.92e+05	1.55 y	39:04	-	1.67
84	Penta	PCB-111/115	0.50	5.11e+05	1.55 y	39:14	-	2.16
85	Penta	PCB-85/116	0.50	3.09e+05	1.69 y	39:22	-	1.30
86	Penta	PCB-120	0.25	2.47e+05	1.58 y	39:35	-	2.08
87	Penta	PCB-110	0.25	2.26e+05	1.34 y	39:44	-	1.90
88	Penta	PCB-82	0.25	1.23e+05	1.66 y	40:23	-	0.83
89	Penta	PCB-124	0.25	2.30e+05	1.74 y	41:02	-	1.54
90	Penta	PCB-107/109	0.50	4.02e+05	1.57 y	41:12	-	1.35
91	Penta	PCB-123	0.25	1.93e+05	1.66 y	41:22	-	1.30
92	Penta	PCB-106/118	0.50	4.29e+05	1.45 y	41:33	-	1.37
93	Penta	PCB-114	0.25	2.76e+05	1.56 y	42:12	-	1.57
94	Penta	PCB-122	0.25	2.48e+05	1.55 y	42:20	-	1.41
95	Penta	PCB-105	0.25	2.42e+05	1.73 y	43:04	-	1.36
96	Penta	PCB-127	0.25	2.56e+05	1.65 y	43:24	-	1.33
97	Penta	PCB-126	0.25	2.38e+05	1.59 y	45:17	-	1.46
98	Hexa	PCB-155	0.25	1.62e+05	1.06 y	37:03	-	1.11
99	Hexa	PCB-150	0.25	1.67e+05	1.15 y	38:19	-	1.15
100	Hexa	PCB-152	0.25	1.92e+05	1.35 y	38:47	-	1.32
101	Hexa	PCB-145	0.25	1.95e+05	1.19 y	39:13	-	1.35

102	Hexa	PCB-136	0.25	1.82e+05	1.10 y	39:34	-	1.25
103	Hexa	PCB-148	0.25	1.22e+05	1.18 y	39:39	-	0.84
104	Hexa	PCB-154	0.25	1.40e+05	1.29 y	40:09	-	0.96
105	Hexa	PCB-151	0.25	1.32e+05	1.38 y	40:47	-	0.91
106	Hexa	PCB-135	0.25	1.21e+05	1.08 y	40:59	-	0.83
107	Hexa	PCB-144	0.25	1.35e+05	1.36 y	41:07	-	0.93
108	Hexa	PCB-147	0.25	1.45e+05	1.24 y	41:14	-	1.00
109	Hexa	PCB-139/149	0.50	2.63e+05	1.42 y	41:30	-	0.91
110	Hexa	PCB-140	0.25	1.32e+05	1.26 y	41:41	-	0.91
111	Hexa	PCB-134/143	0.50	3.60e+05	1.29 y	42:07	-	1.13
112	Hexa	PCB-133/142	0.50	3.59e+05	1.27 y	42:25	-	1.12

113	Hexa	PCB-131	0.25	1.78e-05	1.22 y	42:35	-	1.11
114	Hexa	PCB-146/165	0.50	4.25e+05	1.38 y	42:48	-	1.33
115	Hexa	PCB-132/161	0.50	4.18e+05	1.33 y	43:03	-	1.31
116	Hexa	PCB-153	0.25	1.94e+05	1.33 y	43:13	-	1.21
117	Hexa	PCB-168	0.25	2.50e+05	1.10 y	43:25	-	1.56
118	Hexa	PCB-141	0.25	1.70e+05	1.16 y	43:57	-	1.08
119	Hexa	PCB-137	0.25	1.76e+05	1.34 y	44:20	-	1.12
120	Hexa	PCB-130	0.25	1.34e+05	1.41 y	44:26	-	0.85
121	Hexa	PCB-138/163/164	0.75	5.80e+05	1.22 y	44:49	-	1.30
122	Hexa	PCB-158/160	0.50	4.07e+05	1.26 y	45:04	-	1.37
123	Hexa	PCB-129	0.25	1.58e+05	1.11 y	45:18	-	1.06
124	Hexa	PCB-166	0.25	1.98e+05	1.26 y	45:46	-	1.17
125	Hexa	PCB-159	0.25	2.11e+05	1.18 y	46:04	-	1.24
126	Hexa	PCB-128/162	0.50	3.74e+05	1.26 y	46:22	-	1.10
127	Hexa	PCB-167	0.25	2.22e+05	1.41 y	46:46	-	1.20
128	Hexa	PCB-156	0.25	2.47e+05	1.24 y	48:03	-	1.44
129	Hexa	PCB-157	0.25	2.16e+05	1.36 y	48:20	-	1.17
130	Hexa	PCB-169	0.25	2.12e+05	1.07 y	50:23	-	1.24
131	Hepta	PCB-188	0.25	2.17e+05	1.02 y	42:51	-	1.59
132	Hepta	PCB-184	0.25	1.84e+05	0.94 y	43:18	-	1.35
133	Hepta	PCB-179	0.25	2.05e+05	1.05 y	44:04	-	1.50
134	Hepta	PCB-176	0.25	2.12e+05	1.04 y	44:32	-	1.55
135	Hepta	PCB-186	0.25	2.00e+05	0.97 y	45:09	-	1.46
136	Hepta	PCB-178	0.25	1.35e+05	0.98 y	45:38	-	0.99
137	Hepta	PCB-175	0.25	1.41e+05	1.08 y	45:58	-	1.03
138	Hepta	PCB-182/187	0.50	2.91e+05	0.90 y	46:09	-	1.07
139	Hepta	PCB-183	0.25	1.61e+05	0.95 y	46:29	-	1.18
140	Hepta	PCB-185	0.25	1.56e+05	0.97 y	47:08	-	1.58
141	Hepta	PCB-174	0.25	1.40e+05	1.03 y	47:30	-	1.41
142	Hepta	PCB-181	0.25	1.55e+05	1.17 y	47:37	-	1.56
143	Hepta	PCB-177	0.25	1.49e+05	1.09 y	47:46	-	1.50
144	Hepta	PCB-171	0.25	1.51e+05	0.93 y	48:05	-	1.52
145	Hepta	PCB-173	0.25	1.42e+05	0.96 y	48:30	-	1.43
146	Hepta	PCB-172	0.25	1.45e+05	1.13 y	48:55	-	1.47
147	Hepta	PCB-192	0.25	1.68e+05	0.90 y	49:08	-	1.69
148	Hepta	PCB-180	0.25	1.70e+05	0.97 y	49:20	-	1.72
149	Hepta	PCB-193	0.25	1.88e+05	1.13 y	49:31	-	1.90
150	Hepta	PCB-191	0.25	2.02e+05	1.05 y	49:45	-	2.04
151	Hepta	PCB-170	0.25	1.27e+05	1.19 y	50:44	-	1.66
152	Hepta	PCB-190	0.25	1.78e+05	0.91 y	50:55	-	2.33
153	Hepta	PCB-189	0.25	1.70e+05	1.20 y	52:11	-	1.70
154	Octa	PCB-202	0.25	1.49e+05	0.98 y	48:16	-	1.24
155	Octa	PCB-201	0.25	1.60e+05	1.02 y	48:45	-	1.33
156	Octa	PCB-204	0.25	1.33e+05	0.77 y	48:54	-	1.10
157	Octa	PCB-197	0.25	1.54e+05	0.92 y	49:13	-	1.28
158	Octa	PCB-200	0.25	1.34e+05	1.01 y	50:02	-	1.11
159	Octa	PCB-198	0.25	1.08e+05	0.88 y	51:19	-	0.90
160	Octa	PCB-199	0.25	9.08e+04	0.94 y	51:25	-	0.75
161	Octa	PCB-196/203	0.50	1.98e+05	0.81 y	51:40	-	0.82
162	Octa	PCB-195	0.25	1.39e+05	0.81 y	52:48	-	1.32

163	Octa	PCB-194	0.25	1.70e+05	0.85 y	53:40	-	1.61
164	Octa	PCB-205	0.25	1.79e+05	0.98 y	53:57	-	1.70
165	Nona	PCB-208	0.25	1.78e+05	1.17 y	52:57	-	1.25
166	Nona	PCB-207	0.25	1.41e+05	1.37 y	53:14	-	0.99
167	Nona	PCB-206	0.25	1.02e+05	1.41 y	55:20	-	1.24
168	Deca	PCB-209	0.25	9.69e+04	1.15 y	56:37	-	1.27
169	Tot 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	Tetr	η	13C-PCB-54	100.00	9.33e+07	0.80 y	27:59	-	0.86
193	Tetr	η	13C-PCB-52	100.00	7.77e+07	0.81 y	31:30	-	0.72
194	Tetr	η	13C-PCB-47	100.00	8.03e+07	0.78 y	32:00	-	0.74
195	Tetr	η	13C-PCB-70	100.00	1.04e+08	0.80 y	35:31	-	0.96
196	Tetr	η	13C-PCB-80	100.00	1.05e+08	0.80 y	35:55	-	0.96
197	Tetr	η	13C-PCB-81	100.00	8.95e+07	0.80 y	39:02	-	0.83
198	Tetr	η	13C-PCB-77	100.00	9.58e+07	0.80 y	39:37	-	0.88
199	Pent	η	13C-PCB-104	100.00	6.72e+07	1.63 y	32:39	-	0.99
200	Pent	η	13C-PCB-95	100.00	5.03e+07	1.61 y	35:49	-	0.74
201	Pent	η	13C-PCB-101	100.00	5.37e+07	1.61 y	37:29	-	0.79
202	Pent	η	13C-PCB-97	100.00	4.74e+07	1.63 y	38:47	-	0.70
203	Pent	η	13C-PCB-123	100.00	5.97e+07	1.63 y	41:21	-	0.88
204	Pent	η	13C-PCB-118	100.00	6.28e+07	1.61 y	41:32	-	0.92
205	Pent	η	13C-PCB-114	100.00	7.04e+07	1.59 y	42:11	-	1.26
206	Pent	η	13C-PCB-105	100.00	7.09e+07	1.60 y	43:03	-	1.26
207	Pent	η	13C-PCB-127	100.00	7.69e+07	1.57 y	43:22	-	1.37
208	Pent	η	13C-PCB-126	100.00	6.51e+07	1.55 y	45:17	-	1.16
209	Hexa	η	13C-PCB-155	100.00	5.81e+07	1.27 y	37:02	-	0.86
210	Hexa	η	13C-PCB-153	100.00	6.40e+07	1.30 y	43:12	-	1.14
211	Hexa	η	13C-PCB-141	100.00	6.31e+07	1.28 y	43:56	-	1.13
212	Hexa	η	13C-PCB-138	100.00	5.96e+07	1.29 y	44:47	-	1.06
213	Hexa	η	13C-PCB-159	100.00	6.79e+07	1.28 y	46:04	-	1.21
214	Hexa	η	13C-PCB-167	100.00	7.42e+07	1.28 y	46:45	-	1.32
215	Hexa	η	13C-PCB-156	100.00	6.87e+07	1.28 y	48:02	-	1.23
216	Hexa	η	13C-PCB-157	100.00	7.37e+07	1.28 y	48:18	-	1.31
217	Hexa	η	13C-PCB-169	100.00	6.83e+07	1.27 y	50:23	-	1.22
218	Hept	η	13C-PCB-188	100.00	5.45e+07	0.46 y	42:50	-	0.97
219	Hept	η	13C-PCB-180	100.00	3.96e+07	0.47 y	49:19	-	0.71
220	Hept	η	13C-PCB-170	100.00	3.06e+07	0.46 y	50:44	-	0.55
221	Hept	η	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	Tetrη	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

42	Tetra	PCB-48/75	800.00	9.95e+08	0.78 y	32:08	-	1.08
43	Tetra	PCB-65	400.00	5.26e+08	0.77 y	32:24	-	1.15
44	Tetra	PCB-62	400.00	4.75e+08	0.78 y	32:31	-	1.03
45	Tetra	PCB-44	400.00	3.59e+08	0.78 y	32:49	-	0.78
46	Tetra	PCB-42/59	800.00	9.31e+08	0.78 y	33:03	-	1.01
47	Tetra	PCB-41/64/71/72	1600.00	2.06e+09	0.78 y	33:38	-	1.12
48	Tetra	PCB-68	400.00	5.66e+08	0.78 y	33:53	-	1.23
49	Tetra	PCB-40	400.00	3.06e+08	0.78 y	34:07	-	0.67
50	Tetra	PCB-57	400.00	5.45e+08	0.78 y	34:27	-	0.92
51	Tetra	PCB-67	400.00	5.29e+08	0.77 y	34:45	-	0.90
52	Tetra	PCB-58	400.00	5.39e+08	0.78 y	34:53	-	0.91

53	Tetra	PCB-63	400.00	5.63e+08	0.78	y	35:02	-	0.95
54	Tetra	PCB-74	400.00	5.92e-08	0.78	y	35:19	-	1.00
55	Tetra	PCB-61/70	800.00	1.09e+09	0.78	y	35:30	-	0.92
56	Tetra	PCB-76/66	800.00	1.11e+09	0.78	y	35:43	-	0.94
57	Tetra	PCB-80	400.00	6.36e+08	0.78	y	35:57	-	1.07
58	Tetra	PCB-55	400.00	5.70e+08	0.78	y	36:16	-	0.96
59	Tetra	PCB-56/60	800.00	1.08e+09	0.77	y	36:46	-	0.91
60	Tetra	PCB-79	400.00	5.68e+08	0.78	y	37:49	-	0.95
61	Tetra	PCB-78	400.00	5.53e+08	0.77	y	38:31	-	1.02
62	Tetra	PCB-81	400.00	6.17e+08	0.77	y	39:03	-	1.14
63	Tetra	PCB-77	400.00	5.82e+08	0.80	y	39:38	-	1.02
64	Penta	PCB-104	400.00	3.92e+08	1.60	y	32:41	-	1.03
65	Penta	PCB-96	400.00	3.47e+08	1.59	y	33:56	-	0.92
66	Penta	PCB-103	400.00	3.03e+08	1.60	y	34:28	-	0.80
67	Penta	PCB-100	400.00	3.29e+08	1.60	y	34:50	-	0.87
68	Penta	PCB-94	400.00	2.68e+08	1.60	y	35:18	-	0.91
69	Penta	PCB-95/98/102	1200.00	9.09e+08	1.60	y	35:47	-	1.04
70	Penta	PCB-93	400.00	2.47e+08	1.60	y	35:56	-	0.84
71	Penta	PCB-88/91	800.00	5.23e+08	1.56	y	36:12	-	0.89
72	Penta	PCB-121	400.00	4.29e+08	1.64	y	36:18	-	1.46
73	Penta	PCB-84/92	800.00	5.39e+08	1.60	y	37:08	-	0.87
74	Penta	PCB-89	400.00	2.55e+08	1.60	y	37:20	-	0.83
75	Penta	PCB-90/101	800.00	6.11e+08	1.59	y	37:30	-	0.99
76	Penta	PCB-113	400.00	3.59e+08	1.58	y	37:45	-	1.16
77	Penta	PCB-99	400.00	3.19e+08	1.61	y	37:50	-	1.03
78	Penta	PCB-119	400.00	4.01e+08	1.59	y	38:18	-	1.48
79	Penta	PCB-108/112	800.00	5.97e+08	1.60	y	38:28	-	1.10
80	Penta	PCB-83	400.00	3.51e+08	1.60	y	38:37	-	1.30
81	Penta	PCB-97	400.00	2.87e+08	1.60	y	38:48	-	1.06
82	Penta	PCB-86	400.00	2.42e+08	1.63	y	38:58	-	0.90
83	Penta	PCB-87/117/125	1200.00	1.11e+09	1.59	y	39:05	-	1.37
84	Penta	PCB-111/115	800.00	7.75e+08	1.58	y	39:15	-	1.43
85	Penta	PCB-85/116	800.00	6.10e+08	1.63	y	39:23	-	1.13
86	Penta	PCB-120	400.00	4.12e+08	1.59	y	39:36	-	1.52
87	Penta	PCB-110	400.00	3.74e+08	1.60	y	39:45	-	1.38
88	Penta	PCB-82	400.00	2.25e+08	1.60	y	40:23	-	0.60
89	Penta	PCB-124	400.00	4.01e+08	1.59	y	41:04	-	1.07
90	Penta	PCB-107/109	800.00	8.08e+08	1.60	y	41:12	-	1.08
91	Penta	PCB-123	400.00	3.78e+08	1.60	y	41:22	-	1.01
92	Penta	PCB-106/118	800.00	8.07e+08	1.60	y	41:34	-	1.01
93	Penta	PCB-114	400.00	4.81e+08	1.63	y	42:13	-	1.11
94	Penta	PCB-122	400.00	4.40e+08	1.59	y	42:21	-	1.02
95	Penta	PCB-105	400.00	4.86e+08	1.61	y	43:04	-	1.09
96	Penta	PCB-127	400.00	4.44e+08	1.65	y	43:24	-	0.94
97	Penta	PCB-126	400.00	4.53e+08	1.69	y	45:18	-	1.10
98	Hexa	PCB-155	400.00	3.12e+08	1.27	y	37:04	-	0.98
99	Hexa	PCB-150	400.00	2.99e+08	1.28	y	38:19	-	0.94
100	Hexa	PCB-152	400.00	2.95e+08	1.28	y	38:47	-	0.92
101	Hexa	PCB-145	400.00	2.95e+08	1.27	y	39:15	-	0.92
102	Hexa	PCB-136	400.00	2.81e+08	1.31	y	39:34	-	0.88

103	Hexa	PCB-148	400.00	2.24e+08	1.24 y	39:40	-	0.70
104	Hexa	PCB-154	400.00	2.37e+08	1.27 y	40:09	-	0.74
105	Hexa	PCB-151	400.00	2.17e+08	1.27 y	40:48	-	0.68
106	Hexa	PCB-135	400.00	2.24e+08	1.25 y	41:00	-	0.70
107	Hexa	PCB-144	400.00	2.17e+08	1.28 y	41:07	-	0.68
108	Hexa	PCB-147	400.00	2.25e+08	1.29 y	41:15	-	0.70
109	Hexa	PCB-139/149	800.00	4.68e+08	1.28 y	41:31	-	0.73
110	Hexa	PCB-140	400.00	2.12e+08	1.27 y	41:42	-	0.66
111	Hexa	PCB-134/143	800.00	6.17e+08	1.24 y	42:08	-	0.78
112	Hexa	PCB-133/142	800.00	6.26e+08	1.23 y	42:26	-	0.79
113	Hexa	PCB-131	400.00	2.95e+08	1.25 y	42:36	-	0.74

114	Hexa	PCB-146/165	800.00	7.73e+08	1.24 y	42:49	-	0.97
115	Hexa	PCB-132/161	800.00	7.41e+08	1.23 y	43:04	-	0.93
116	Hexa	PCB-153	400.00	3.95e+08	1.23 y	43:13	-	0.99
117	Hexa	PCB-168	400.00	4.52e+08	1.23 y	43:26	-	1.14
118	Hexa	PCB-141	400.00	3.03e+08	1.23 y	43:57	-	0.83
119	Hexa	PCB-137	400.00	3.53e+08	1.24 y	44:20	-	0.96
120	Hexa	PCB-130	400.00	2.61e+08	1.22 y	44:27	-	0.71
121	Hexa	PCB-138/163/164	1200.00	1.16e+09	1.23 y	44:49	-	1.05
122	Hexa	PCB-158/160	800.00	8.21e+08	1.23 y	45:04	-	1.11
123	Hexa	PCB-129	400.00	2.80e+08	1.23 y	45:18	-	0.76
124	Hexa	PCB-166	400.00	3.99e+08	1.23 y	45:46	-	0.94
125	Hexa	PCB-159	400.00	4.06e+08	1.26 y	46:06	-	0.96
126	Hexa	PCB-128/162	800.00	7.15e+08	1.23 y	46:23	-	0.85
127	Hexa	PCB-167	400.00	4.05e+08	1.22 y	46:46	-	0.88
128	Hexa	PCB-156	400.00	4.28e+08	1.23 y	48:03	-	0.98
129	Hexa	PCB-157	400.00	4.21e+08	1.24 y	48:20	-	0.91
130	Hexa	PCB-169	400.00	3.99e+08	1.23 y	50:23	-	0.94
131	Hepta	PCB-188	400.00	3.97e+08	1.04 y	42:51	-	1.17
132	Hepta	PCB-184	400.00	3.45e+08	1.05 y	43:18	-	1.02
133	Hepta	PCB-179	400.00	3.55e+08	1.05 y	44:05	-	1.05
134	Hepta	PCB-176	400.00	3.64e+08	1.05 y	44:33	-	1.07
135	Hepta	PCB-186	400.00	3.55e+08	1.05 y	45:10	-	1.05
136	Hepta	PCB-178	400.00	2.55e+08	1.05 y	45:39	-	0.75
137	Hepta	PCB-175	400.00	2.66e+08	1.05 y	46:00	-	0.78
138	Hepta	PCB-182/187	800.00	5.78e+08	1.06 y	46:10	-	0.85
139	Hepta	PCB-183	400.00	2.87e+08	1.05 y	46:29	-	0.85
140	Hepta	PCB-185	400.00	2.56e+08	1.05 y	47:09	-	1.10
141	Hepta	PCB-174	400.00	2.74e+08	1.04 y	47:30	-	1.18
142	Hepta	PCB-181	400.00	2.51e+08	1.05 y	47:37	-	1.08
143	Hepta	PCB-177	400.00	2.40e+08	1.05 y	47:47	-	1.03
144	Hepta	PCB-171	400.00	2.57e+08	1.05 y	48:05	-	1.10
145	Hepta	PCB-173	400.00	2.26e+08	1.05 y	48:30	-	0.97
146	Hepta	PCB-172	400.00	2.44e+08	1.05 y	48:57	-	1.05
147	Hepta	PCB-192	400.00	3.09e+08	1.05 y	49:08	-	1.33
148	Hepta	PCB-180	400.00	2.75e+08	1.05 y	49:20	-	1.18
149	Hepta	PCB-193	400.00	3.25e+08	1.06 y	49:31	-	1.40
150	Hepta	PCB-191	400.00	3.32e+08	1.05 y	49:46	-	1.43
151	Hepta	PCB-170	400.00	2.30e+08	1.05 y	50:45	-	1.23
152	Hepta	PCB-190	400.00	3.17e+08	1.05 y	50:55	-	1.70
153	Hepta	PCB-189	400.00	3.22e+08	1.05 y	52:11	-	1.30
154	Octa	PCB-202	400.00	2.47e+08	0.91 y	48:16	-	0.85
155	Octa	PCB-201	400.00	2.67e+08	0.90 y	48:45	-	0.92
156	Octa	PCB-204	400.00	2.45e+08	0.91 y	48:54	-	0.84
157	Octa	PCB-197	400.00	2.62e+08	0.91 y	49:13	-	0.90
158	Octa	PCB-200	400.00	2.51e+08	0.91 y	50:03	-	0.87
159	Octa	PCB-198	400.00	1.73e+08	0.90 y	51:19	-	0.60
160	Octa	PCB-199	400.00	1.84e+08	0.91 y	51:25	-	0.63
161	Octa	PCB-196/203	800.00	3.87e+08	0.90 y	51:41	-	0.67
162	Octa	PCB-195	400.00	2.55e+08	0.91 y	52:49	-	1.04
163	Octa	PCB-194	400.00	2.51e+08	0.92 y	53:40	-	1.02



164	Octa	PCB-205	400.00	2.86e+08	0.92 y	53:57	-	1.17
165	Nona	PCB-208	400.00	2.69e+08	1.32 y	52:57	-	0.78
166	Nona	PCB-207	400.00	2.66e+08	1.33 y	53:15	-	0.78
167	Nona	PCB-206	400.00	1.66e+08	1.33 y	55:21	-	0.84
168	Deca	PCB-209	400.00	1.83e+08	1.19 y	56:38	-	0.99
169	Tot 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

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	Tetrη		13C-PCB-54	100.00	1.33e+08	0.80 y	27:59	-	0.77
193	Tetrη		13C-PCB-52	100.00	1.13e+08	0.80 y	31:31	-	0.66
194	Tetrη		13C-PCB-47	100.00	1.19e+08	0.80 y	32:01	-	0.70
195	Tetrη		13C-PCB-70	100.00	1.56e+08	0.81 y	35:31	-	0.91
196	Tetrη		13C-PCB-80	100.00	1.58e+08	0.80 y	35:56	-	0.92
197	Tetrη		13C-PCB-81	100.00	1.47e+08	0.81 y	39:03	-	0.86
198	Tetrη		13C-PCB-77	100.00	1.56e+08	0.81 y	39:38	-	0.91
199	Pentη		13C-PCB-104	100.00	9.67e+07	1.59 y	32:40	-	0.90
200	Pentη		13C-PCB-95	100.00	7.69e+07	1.59 y	35:49	-	0.72
201	Pentη		13C-PCB-101	100.00	8.24e+07	1.61 y	37:30	-	0.77
202	Pentη		13C-PCB-97	100.00	7.23e+07	1.63 y	38:48	-	0.67
203	Pentη		13C-PCB-123	100.00	1.04e+08	1.60 y	41:22	-	0.97
204	Pentη		13C-PCB-118	100.00	1.07e+08	1.61 y	41:33	-	0.99
205	Pentη		13C-PCB-114	100.00	1.19e+08	1.61 y	42:12	-	1.15
206	Pentη		13C-PCB-105	100.00	1.23e+08	1.59 y	43:04	-	1.19
207	Pentη		13C-PCB-127	100.00	1.34e+08	1.58 y	43:23	-	1.30
208	Pentη		13C-PCB-126	100.00	1.17e+08	1.57 y	45:18	-	1.14
209	Hexaη		13C-PCB-155	100.00	8.39e+07	1.28 y	37:03	-	0.78
210	Hexaη		13C-PCB-153	100.00	1.09e+08	1.28 y	43:13	-	1.06
211	Hexaη		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	Hexaη		13C-PCB-159	100.00	1.22e+08	1.26 y	46:04	-	1.19
214	Hexaη		13C-PCB-167	100.00	1.35e+08	1.27 y	46:45	-	1.31
215	Hexaη		13C-PCB-156	100.00	1.28e+08	1.27 y	48:03	-	1.24
216	Hexaη		13C-PCB-157	100.00	1.33e+08	1.28 y	48:19	-	1.29
217	Hexaη		13C-PCB-169	100.00	1.24e+08	1.28 y	50:23	-	1.20
218	Heptη		13C-PCB-188	100.00	9.09e+07	0.46 y	42:51	-	0.88
219	Heptη		13C-PCB-180	100.00	6.73e+07	0.47 y	49:20	-	0.65
220	Heptη		13C-PCB-170	100.00	5.38e+07	0.46 y	50:44	-	0.52
221	Heptη		13C-PCB-189	100.00	7.24e+07	0.47 y	52:11	-	0.70
222	Octaη		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. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.96	2.66-3.60	y	52.3	37.5-62.5	PCB-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 Reviewed by Analyst: \_\_\_\_\_

Date: 6/23/14 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

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

13C-PCB-194	0.80	1.04 %	0.79	0.81	0.80	0.79	0.80	0.79
13C-PCB-208	1.08	1.09 %	1.09	1.09	1.09	1.08	1.07	1.07
13C-PCB-206	0.65	2.52 %	0.65	0.66	0.65	0.65	0.67	0.62
13C-PCB-209	0.61	3.41 %	0.62	0.62	0.63	0.59	0.63	0.58
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.02	1.30 %	1.02	1.02	1.02	1.00	1.01	1.04
13C-PCB-178	0.61	3.59 %	0.64	0.63	0.61	0.62	0.60	0.58
13C-PCB-79	1.10	2.04 %	1.11	1.12	1.11	1.12	1.09	1.06
13C-PCB-178	0.90	2.70 %	0.86	0.90	0.92	0.93	0.89	0.90

Filename: 140623E2 S: 1      Acquired: 23-JUN-14 11:41:57  
 Run: 140623E2    Analyte:            ICal: PCBVG8-6-23-14      Results: 140623E2  
 Sample text: ST140623E2-1 PCB CS0 14F1602

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	4.81e+05	2.67 y	16:24	-	1.04
2	Mono	PCB-2	0.25	5.03e+05	3.50 y	18:40	-	1.05
3	Mono	PCB-3	0.25	6.38e+05	2.83 y	18:54	-	1.34
4	Di	PCB-4/10	1.00	1.68e+06	1.64 y	20:13	-	1.53
5	Di	PCB-7/9	1.00	2.03e+06	1.59 y	21:57	-	1.22
6	Di	PCB-6	0.50	1.04e+06	1.77 y	22:34	-	1.25
7	Di	PCB-5/8	1.00	1.87e+06	1.60 y	22:59	-	1.13
8	Di	PCB-14	0.50	9.15e+05	1.73 y	24:03	-	1.05
9	Di	PCB-11	0.50	9.14e+05	1.60 y	25:13	-	1.05
10	Di	PCB-12/13	1.00	2.03e+06	1.71 y	25:37	-	1.17
11	Di	PCB-15	0.50	1.13e+06	1.70 y	25:55	-	1.29
12	Tri	PCB-19	0.25	2.77e+05	1.03 y	24:14	-	1.04
13	Tri	PCB-30	0.25	4.46e+05	1.08 y	25:06	-	1.67
14	Tri	PCB-18	0.25	2.82e+05	1.17 y	25:50	-	0.71
15	Tri	PCB-17	0.25	3.59e+05	0.95 y	26:01	-	0.90
16	Tri	PCB-24/27	0.50	9.03e+05	1.12 y	26:35	-	1.13
17	Tri	PCB-16/32	0.50	7.35e+05	1.02 y	27:05	-	0.92
18	Tri	PCB-34	0.25	4.46e+05	1.14 y	27:51	-	1.15
19	Tri	PCB-23	0.25	5.33e+05	1.13 y	27:57	-	1.38
20	Tri	PCB-29	0.25	4.32e+05	1.02 y	28:12	-	1.11
21	Tri	PCB-26	0.25	4.83e+05	0.94 y	28:24	-	1.25
22	Tri	PCB-25	0.25	5.38e+05	0.92 y	28:33	-	1.39
23	Tri	PCB-31	0.25	5.81e+05	0.96 y	28:55	-	1.50
24	Tri	PCB-28	0.25	7.03e+05	1.16 y	29:01	-	1.81
25	Tri	PCB-20/21/33	0.75	1.33e+06	1.03 y	29:38	-	1.15
26	Tri	PCB-22	0.25	5.26e+05	1.01 y	30:04	-	1.36
27	Tri	PCB-36	0.25	4.96e+05	1.00 y	30:41	-	1.36
28	Tri	PCB-39	0.25	4.79e+05	1.13 y	31:08	-	1.31
29	Tri	PCB-38	0.25	5.28e+05	1.17 y	31:55	-	1.44
30	Tri	PCB-35	0.25	5.13e+05	0.95 y	32:25	-	1.40
31	Tri	PCB-37	0.25	5.06e+05	1.03 y	32:51	-	1.38
32	Tetra	PCB-54	0.25	3.83e+05	0.67 y	27:55	-	1.18
33	Tetra	PCB-50	0.25	3.14e+05	0.72 y	29:04	-	0.97
34	Tetra	PCB-53	0.25	2.86e+05	0.85 y	29:42	-	1.06
35	Tetra	PCB-51	0.25	2.57e+05	0.85 y	30:03	-	0.95
36	Tetra	PCB-45	0.25	2.55e+05	0.84 y	30:28	-	0.95
37	Tetra	PCB-46	0.25	2.42e+05	0.82 y	30:58	-	0.90
38	Tetra	PCB-52/69	0.50	6.62e+05	0.73 y	31:25	-	1.23
39	Tetra	PCB-73	0.25	3.88e+05	0.72 y	31:32	-	1.44
40	Tetra	PCB-43/49	0.50	5.73e+05	0.83 y	31:42	-	1.07

41	Tetra	PCB-47	0.25	3.18e+05	0.79 y	31:55	-	1.12
42	Tetra	PCB-48/75	0.50	7.61e+05	0.81 y	32:01	-	1.34
43	Tetra	PCB-65	0.25	3.48e+05	0.88 y	32:17	-	1.22
44	Tetra	PCB-62	0.25	4.17e+05	0.79 y	32:24	-	1.47
45	Tetra	PCB-44	0.25	2.83e+05	0.73 y	32:42	-	1.00
46	Tetra	PCB-42/59	0.50	6.84e+05	0.76 y	32:55	-	1.20
47	Tetra	PCB-41/64/71/72	1.00	1.41e+06	0.76 y	33:30	-	1.24
48	Tetra	PCB-68	0.25	4.05e+05	0.81 y	33:46	-	1.42
49	Tetra	PCB-40	0.25	1.96e+05	0.70 y	34:00	-	0.69
50	Tetra	PCB-57	0.25	3.33e+05	0.87 y	34:20	-	0.97
51	Tetra	PCB-67	0.25	4.09e+05	0.84 y	34:38	-	1.19



52	Tetra	PCB-58	0.25	3.10e+05	0.67 y	34:45	-	0.90
53	Tetra	PCB-63	0.25	3.84e+05	0.79 y	34:55	-	1.12
54	Tetra	PCB-74	0.25	4.62e+05	0.82 y	35:12	-	1.34
55	Tetra	PCB-61/70	0.50	6.62e+05	0.77 y	35:23	-	0.96
56	Tetra	PCB-76/66	0.50	7.64e+05	0.73 y	35:35	-	1.11
57	Tetra	PCB-80	0.25	4.01e+05	0.75 y	35:49	-	1.13
58	Tetra	PCB-55	0.25	3.54e+05	0.77 y	36:09	-	1.00
59	Tetra	PCB-56/60	0.50	7.14e+05	0.78 y	36:39	-	1.01
60	Tetra	PCB-79	0.25	3.94e+05	0.76 y	37:42	-	1.12
61	Tetra	PCB-78	0.25	4.28e+05	0.69 y	38:24	-	1.40
62	Tetra	PCB-81	0.25	4.55e+05	0.75 y	38:56	-	1.49
63	Tetra	PCB-77	0.25	3.79e+05	0.71 y	39:31	-	1.19
64	Penta	PCB-104	0.25	2.69e+05	1.51 y	32:34	-	1.13
65	Penta	PCB-96	0.25	2.62e+05	1.46 y	33:49	-	1.10
66	Penta	PCB-103	0.25	2.37e+05	1.63 y	34:21	-	0.99
67	Penta	PCB-100	0.25	2.32e+05	1.75 y	34:43	-	0.97
68	Penta	PCB-94	0.25	2.02e+05	1.62 y	35:10	-	1.17
69	Penta	PCB-95/98/102	0.75	6.38e+05	1.53 y	35:40	-	1.23
70	Penta	PCB-93	0.25	1.38e+05	1.68 y	35:48	-	0.80
71	Penta	PCB-88/91	0.50	3.63e+05	1.40 y	36:05	-	1.05
72	Penta	PCB-121	0.25	2.89e+05	1.74 y	36:10	-	1.66
73	Penta	PCB-84/92	0.50	4.09e+05	1.74 y	37:00	-	1.10
74	Penta	PCB-89	0.25	2.28e+05	1.35 y	37:12	-	1.23
75	Penta	PCB-90/101	0.50	4.11e+05	1.60 y	37:22	-	1.11
76	Penta	PCB-113	0.25	2.82e+05	1.48 y	37:38	-	1.52
77	Penta	PCB-99	0.25	2.22e+05	1.49 y	37:43	-	1.19
78	Penta	PCB-119	0.25	2.54e+05	1.74 y	38:11	-	1.51
79	Penta	PCB-108/112	0.50	4.22e+05	1.43 y	38:20	-	1.26
80	Penta	PCB-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

102	Hexa	PCB-136	0.25	2.45e+05	1.20 y	39:27	-	1.17
103	Hexa	PCB-148	0.25	1.45e+05	1.15 y	39:33	-	0.70
104	Hexa	PCB-154	0.25	1.77e+05	1.37 y	40:02	-	0.85
105	Hexa	PCB-151	0.25	1.79e+05	1.18 y	40:41	-	0.86
106	Hexa	PCB-135	0.25	1.86e+05	1.13 y	40:54	-	0.89
107	Hexa	PCB-144	0.25	1.47e+05	1.40 y	41:00	-	0.70
108	Hexa	PCB-147	0.25	1.67e+05	1.07 y	41:08	-	0.80
109	Hexa	PCB-139/149	0.50	3.29e+05	1.16 y	41:24	-	0.79
110	Hexa	PCB-140	0.25	1.47e+05	1.10 y	41:35	-	0.70
111	Hexa	PCB-134/143	0.50	4.01e+05	1.40 y	42:01	-	0.95
112	Hexa	PCB-133/142	0.50	3.65e+05	1.40 y	42:19	-	0.86

113	Hexa	PCB-131	0.25	1.96e+05	1.21 y	42:29	-	0.92
114	Hexa	PCB-146/165	0.50	5.59e+05	1.30 y	42:42	-	1.32
115	Hexa	PCB-132/161	0.50	5.02e+05	1.30 y	42:57	-	1.19
116	Hexa	PCB-153	0.25	2.51e+05	1.25 y	43:06	-	1.19
117	Hexa	PCB-168	0.25	2.97e+05	1.27 y	43:20	-	1.40
118	Hexa	PCB-141	0.25	2.26e+05	1.36 y	43:51	-	1.16
119	Hexa	PCB-137	0.25	2.10e+05	1.21 y	44:14	-	1.07
120	Hexa	PCB-130	0.25	2.06e+05	1.15 y	44:20	-	1.06
121	Hexa	PCB-138/163/164	0.75	7.59e+05	1.25 y	44:43	-	1.26
122	Hexa	PCB-158/160	0.50	5.00e+05	1.32 y	44:58	-	1.24
123	Hexa	PCB-129	0.25	1.71e+05	1.19 y	45:12	-	0.85
124	Hexa	PCB-166	0.25	2.74e+05	1.28 y	45:40	-	1.19
125	Hexa	PCB-159	0.25	2.53e+05	1.29 y	46:00	-	1.10
126	Hexa	PCB-128/162	0.50	5.15e+05	1.18 y	46:17	-	1.12
127	Hexa	PCB-167	0.25	2.86e+05	1.19 y	46:40	-	1.15
128	Hexa	PCB-156	0.25	2.51e+05	1.34 y	47:59	-	1.06
129	Hexa	PCB-157	0.25	3.21e+05	1.29 y	48:15	-	1.28
130	Hexa	PCB-169	0.25	3.10e+05	1.35 y	50:19	-	1.28
131	Hepta	PCB-188	0.25	2.77e+05	1.01 y	42:45	-	1.58
132	Hepta	PCB-184	0.25	2.81e+05	1.07 y	43:12	-	1.61
133	Hepta	PCB-179	0.25	2.22e+05	0.95 y	43:58	-	1.27
134	Hepta	PCB-176	0.25	2.82e+05	1.14 y	44:27	-	1.61
135	Hepta	PCB-186	0.25	2.95e+05	1.09 y	45:04	-	1.69
136	Hepta	PCB-178	0.25	1.81e+05	0.95 y	45:33	-	1.03
137	Hepta	PCB-175	0.25	1.83e+05	1.03 y	45:54	-	1.05
138	Hepta	PCB-182/187	0.50	4.48e+05	0.94 y	46:04	-	1.28
139	Hepta	PCB-183	0.25	2.33e+05	1.14 y	46:23	-	1.33
140	Hepta	PCB-185	0.25	2.42e+05	0.91 y	47:03	-	1.77
141	Hepta	PCB-174	0.25	1.84e+05	0.97 y	47:25	-	1.34
142	Hepta	PCB-181	0.25	1.71e+05	0.89 y	47:31	-	1.25
143	Hepta	PCB-177	0.25	1.62e+05	1.15 y	47:41	-	1.18
144	Hepta	PCB-171	0.25	1.96e+05	0.95 y	48:00	-	1.43
145	Hepta	PCB-173	0.25	1.34e+05	1.04 y	48:25	-	0.97
146	Hepta	PCB-172	0.25	1.79e+05	1.06 y	48:52	-	1.31
147	Hepta	PCB-192	0.25	2.08e+05	1.05 y	49:03	-	1.52
148	Hepta	PCB-180	0.25	1.86e+05	1.04 y	49:15	-	1.35
149	Hepta	PCB-193	0.25	2.48e+05	1.20 y	49:27	-	1.81
150	Hepta	PCB-191	0.25	2.37e+05	0.93 y	49:42	-	1.73
151	Hepta	PCB-170	0.25	1.67e+05	1.00 y	50:41	-	1.54
152	Hepta	PCB-190	0.25	2.32e+05	1.20 y	50:51	-	2.14
153	Hepta	PCB-189	0.25	2.21e+05	0.99 y	52:07	-	1.58
154	Octa	PCB-202	0.25	1.87e+05	0.90 y	48:11	-	1.09
155	Octa	PCB-201	0.25	1.91e+05	0.96 y	48:40	-	1.11
156	Octa	PCB-204	0.25	1.75e+05	0.89 y	48:50	-	1.02
157	Octa	PCB-197	0.25	1.86e+05	1.01 y	49:08	-	1.09
158	Octa	PCB-200	0.25	1.85e+05	1.02 y	49:59	-	1.08
159	Octa	PCB-198	0.25	1.27e+05	0.92 y	51:14	-	0.74
160	Octa	PCB-199	0.25	1.30e+05	0.87 y	51:21	-	0.76
161	Octa	PCB-196/203	0.50	2.45e+05	0.96 y	51:36	-	0.71
162	Octa	PCB-195	0.25	1.54e+05	0.94 y	52:45	-	1.15

163	Octa	PCB-194	0.25	1.77e+05	0.95 y	53:38	-	1.32
164	Octa	PCB-205	0.25	2.02e+05	0.89 y	53:56	-	1.51
165	Nona	PCB-208	0.25	1.76e+05	1.45 y	52:54	-	0.95
166	Nona	PCB-207	0.25	1.98e+05	1.16 y	53:13	-	1.07
167	Nona	PCB-206	0.25	1.21e+05	1.45 y	55:20	-	1.11
168	Deca	PCB-209	0.25	1.20e+05	1.18 y	56:37	-	1.15
169	Tot $\eta$	Total Mono-PCB	0.00	-	- n	-	-	1.15
170	Tot $\eta$	Total Di-PCB	0.00	-	- n	-	-	1.19

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		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

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

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

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	Tetrη	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

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	Tetr	η	13C-PCB-54	100.00	1.30e+08	0.80	y	27:56	-	0.98
193	Tetr	η	13C-PCB-52	100.00	9.99e+07	0.80	y	31:25	-	0.75
194	Tetr	η	13C-PCB-47	100.00	1.04e+08	0.77	y	31:55	-	0.78
195	Tetr	η	13C-PCB-70	100.00	1.35e+08	0.78	y	35:24	-	1.02
196	Tetr	η	13C-PCB-80	100.00	1.39e+08	0.80	y	35:49	-	1.05
197	Tetr	η	13C-PCB-81	100.00	1.30e+08	0.79	y	38:56	-	0.98
198	Tetr	η	13C-PCB-77	100.00	1.29e+08	0.80	y	39:32	-	0.97
199	Pent	η	13C-PCB-104	100.00	8.83e+07	1.59	y	32:34	-	0.96
200	Pent	η	13C-PCB-95	100.00	6.79e+07	1.55	y	35:43	-	0.74
201	Pent	η	13C-PCB-101	100.00	7.25e+07	1.55	y	37:23	-	0.79
202	Pent	η	13C-PCB-97	100.00	6.44e+07	1.57	y	38:42	-	0.70
203	Pent	η	13C-PCB-123	100.00	8.18e+07	1.58	y	41:16	-	0.89
204	Pent	η	13C-PCB-118	100.00	9.11e+07	1.59	y	41:27	-	0.99
205	Pent	η	13C-PCB-114	100.00	1.10e+08	1.61	y	42:06	-	1.45
206	Pent	η	13C-PCB-105	100.00	1.10e+08	1.59	y	42:58	-	1.45
207	Pent	η	13C-PCB-127	100.00	1.18e+08	1.61	y	43:18	-	1.54
208	Pent	η	13C-PCB-126	100.00	1.02e+08	1.57	y	45:13	-	1.34
209	Hexa	η	13C-PCB-155	100.00	7.27e+07	1.27	y	36:56	-	0.79
210	Hexa	η	13C-PCB-153	100.00	8.79e+07	1.29	y	43:07	-	1.15
211	Hexa	η	13C-PCB-141	100.00	8.18e+07	1.28	y	43:52	-	1.07
212	Hexa		13C-PCB-138	100.00	8.32e+07	1.27	y	44:43	-	1.09
213	Hexa	η	13C-PCB-159	100.00	9.51e+07	1.28	y	45:59	-	1.25
214	Hexa	η	13C-PCB-167	100.00	1.01e+08	1.26	y	46:41	-	1.33
215	Hexa	η	13C-PCB-156	100.00	1.01e+08	1.27	y	47:59	-	1.32
216	Hexa	η	13C-PCB-157	100.00	1.05e+08	1.31	y	48:15	-	1.38
217	Hexa	η	13C-PCB-169	100.00	9.82e+07	1.28	y	50:20	-	1.29
218	Hept	η	13C-PCB-188	100.00	6.91e+07	0.47	y	42:45	-	0.91
219	Hept	η	13C-PCB-180	100.00	4.94e+07	0.48	y	49:16	-	0.65
220	Hept	η	13C-PCB-170	100.00	3.94e+07	0.46	y	50:41	-	0.52
221	Hept	η	13C-PCB-189	100.00	5.34e+07	0.46	y	52:08	-	0.70
222	Octa	η	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

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.		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: DMSDate: 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						
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						

CRS vs. RS

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

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations  
by

Analyst: *Dms*

Date: *6/24/14*

Reviewed  
by

Analyst: \_\_\_\_\_

Date: \_\_\_\_\_

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-105	5.88e+07	1.64	y	1.30	42:59	1.000	0.995-1.005	49.4039	PCB-188	4.99e+07	1.05	y	1.58	42:46	1.001	0.996-1.006	49.3061
PCB-127	6.36e+07	1.67	y	1.33	43:19	1.001	0.996-1.006	47.5787	PCB-184	5.13e+07	1.06	y	1.63	43:13	1.011	1.006-1.016	49.1029
PCB-126	5.32e+07	1.63	y	1.18	45:13	1.000	0.995-1.005	49.7195	PCB-179	4.15e+07	1.06	y	1.30	44:00	1.029	1.024-1.034	49.7059
									PCB-176	4.68e+07	1.04	y	1.48	44:28	1.040	1.035-1.045	49.4886
PCB-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	RS										
13C-PCB-97	5.89e+07	1.59 y	0.70	38:42	0.989	0.984-0.994		98.2	98.2		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	6.57e+07	1.54 y	0.78	37:23	0.956	0.951-0.961		98.6	98.6		13C-PCB-15	1.78e+08	1.59 y	1.00	25:55	100				
13C-PCB-104	8.52e+07	1.57 y	1.00	32:34	0.832	0.828-0.836	100.0	100.0	100.0		13C-PCB-31	1.52e+08	1.05 y	1.00	28:55	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-60	1.25e+08	0.79 y	1.00	36:39	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-111	8.51e+07	1.57 y	1.00	39:07	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-128	6.93e+07	1.27 y	1.00	46:16	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-205	6.51e+07	0.91 y	1.00	53:54	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-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	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	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											

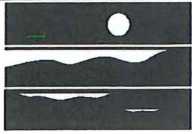
Analyst: Dms

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 L-5**  
**Ecology Inspection Report**



State of Washington Department of Ecology  
Northwest Regional Office  
**STORMWATER COMPLIANCE INSPECTION  
REPORT**

WADOE Stormwater  
Compliance Inspection Form  
(last file update 4-04.)

Facility Type:  
 Industrial  Boatyard  
 Construction  S & G

Section A: General Data

Inspection Date 9/03/2014	NPDES Permit # <b>WAR000949</b>	County King	Receiving Waters Duwamish River
Discharges to: Surface Water <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/>		Weather at time of inspection: Mostly Sunny	

Section B: Facility Data

Name and Location of Facility Inspected  Recology CleanScapes Inc. 7308 8 <sup>th</sup> Avenue S. 98124 Seattle, WA 98124	Entry Time 8:30 am	Permit Effective Date 1-1-11
	Exit Time 2:30 pm	Permit Expiration Date 1-1-15
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Jim Williams/ Operations Manager/ 206-859-6700 Jim Quist/ Safety Coordinator	Other Participants: Warren Walton, Urban Waters Inspector with Ecology's Hazardous Waste & Toxics Reduction Program Mahbub Alam, Toxics Cleanup Program	
Name, Address of Responsible Official/Title/Phone and Fax Number. Ame LeCocq/ Group Environmental Manager/503-285-8777 x2805 117 South Main Street, Suite 300 Seattle, WA 98104-3428 Phone Number 503-849-9114 Fax	Contacted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Samples Taken?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Photos Taken?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Section C: Areas Evaluated During Inspection.

<input checked="" type="checkbox"/> NPDES Permit Available	<input type="checkbox"/> Wet & Dry Season Inspection Reports	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Effluent/Receiving Water
<input checked="" type="checkbox"/> Storm Water Pollution Prevention Plan Available	<input type="checkbox"/> Employee Training Records	<input checked="" type="checkbox"/> Oil/Water Separator	<input type="checkbox"/> Pretreatment
<input checked="" type="checkbox"/> SPCC Plan & Equipment	<input type="checkbox"/> Compliance Schedules	<input checked="" type="checkbox"/> Solid Waste Disposal	<input type="checkbox"/> Laboratory
<input type="checkbox"/> Erosion and Sediment Control Plans	<input checked="" type="checkbox"/> Monitoring Plan	<input checked="" type="checkbox"/> Catch Basins	<input type="checkbox"/> 0.5 inch Inspection Logs
<input checked="" type="checkbox"/> DMR Submittals	<input checked="" type="checkbox"/> Fuel/Chemical Storage	<input type="checkbox"/> Track out / Wheel wash	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section D: Summary of Findings/Comments

**Background:**

This compliance inspection was conducted as part of a Department of Ecology inspection program to control the potential sources of pollutants discharged to the Duwamish waterway through storm drainage systems. The previous Department of Ecology, Water Quality Program compliance inspection at this facility was January 10, 2012. As part of this inspection, storm drain lines and structures were reviewed and compared with existing site maps and source trace samples of catch basin solids and stormwater were collected. Ecology will review sample results and consider the need to monitor for additional parameters or conduct further source tracing. Results of Ecology sampling will be provided to Recology once the analysis is complete and data are verified.

Recology/CleanScapes is a garbage hauler for Northeast and Central Seattle. Residential and commercial garbage, recycling and yard & food waste is collected. The company was recently purchased by Recology out of San Francisco.

**Inspection/Observations:**

We arrived at the facility at approximately 8:30 am for an unannounced inspection. I contacted Ame LeCocq to explain the purpose of the sample collection. Ecology offered to make arrangements to split samples with Recology if so desired. Recology requested to split samples, with the understanding that Ecology and Recology will share samples results once obtained.



The Ecology sampling contractor helped assess the drainage system for the availability of sample collection. Minimal solids were observed in catch basins and the treatment system. A stormwater sample was collected at Sump "D" and catch basin solids were collected from CB #1.

The updated SWPPP must include the revisions to the storm drainage system and the addition of the 2 treatment systems. Also needs to include reference to the O& M for each treatment system.

Monthly inspection reports for March, April and May of 2014 were not in the SWPPP. Recology needs to include an explanation for the missing monthly inspection reports. Either they were completed and misplaced or they were not done.

The 2<sup>nd</sup> quarter Discharge Monitoring Report for 2014 showed very low values for copper (0.5 µg/L) and zinc (1.5 µg/L). Recology should review the analytical sample results and double-check the values and units.

The facility must ensure that all liquid products and wastes stored outside at the facility are provide with adequate cover and containment. All waste bins and dumpsters must be provided with a tight fitting lid that remains closed when not in use or be kept under cover. (See Photos # 6,7,8,10).

Cooking grease and motor oil collection, transfer and storage procedures must ensure that fluids do not get onto the pavement and are properly contained.

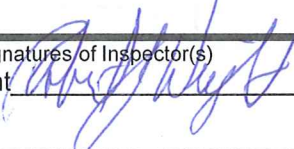

More than 75 garbage trucks are parked overnight at the facility. Each vehicle leaks to some degree. The amount of oil drips and leaks was very noticeable. The permit requires the inspection of all equipment and vehicles during monthly site inspections for leaking fluids such as oil, antifreeze, etc. Take leaking equipment and vehicles out of service or prevent leaks from spilling on the ground until repaired. And immediately clean up spills and leaks (e.g., using absorbents, vacuuming, etc.) to prevent the discharge of pollutants

**Recommendations and Requirements:**

In order to come into compliance with Industrial Stormwater General Permit # WAR000949, the facility must comply with the following correctives actions:

- Update the SWPPP and site map to include the 2 new treatment systems, include the Operation and Maintenance Manual in the SWPPP and submit to Ecology within 30 days.
- Dumpsters containing wastes must have a lid that is kept closed when not in use or be kept under cover.
- All containers of liquid petroleum and chemical products and wastes stored outside must be provided with proper cover and containment

Contact Robert Wright at 206-909-6640 (email [rowr461@ecy.wa.gov](mailto:rowr461@ecy.wa.gov)) with any questions or concerns regarding this report.

Name(s) and Signatures of Inspector(s) Robert Wright 	Agency/Office/Telephone WA Dept. of Ecology/ NW Regional Office/ 425-649-7060 3190 160 <sup>th</sup> Ave SE, Bellevue, WA 98008-5452	Date 12-2-14
Signature of Management Q A Reviewer 	Agency/Office/Phone and Fax Numbers WA Dept. of Ecology/NWRO/ (425) 649-7000 Fax (425) 649-7098	12/09/14

**UNANNOUNCED** Inspection





#1. **DESCRIPTION:** View looking east from north of the main office. Garbage trucks park here each night.



#2. **DESCRIPTION:** The facility must make sure that no process wastewater generated from equipment and/or truck maintenance activities can flow to the storm drainage system. This area is bermed and flows to the sanitary sewer.



#3. **DESCRIPTION:** Drums and containers of maintenance fluids (see arrow) are stored along the edge of the bermed area. The facility must ensure that a leak or release will not flow to the storm drainage system.



#4. **DESCRIPTION:** The dark blue tank is main stormwater treatment system for the majority of the site.





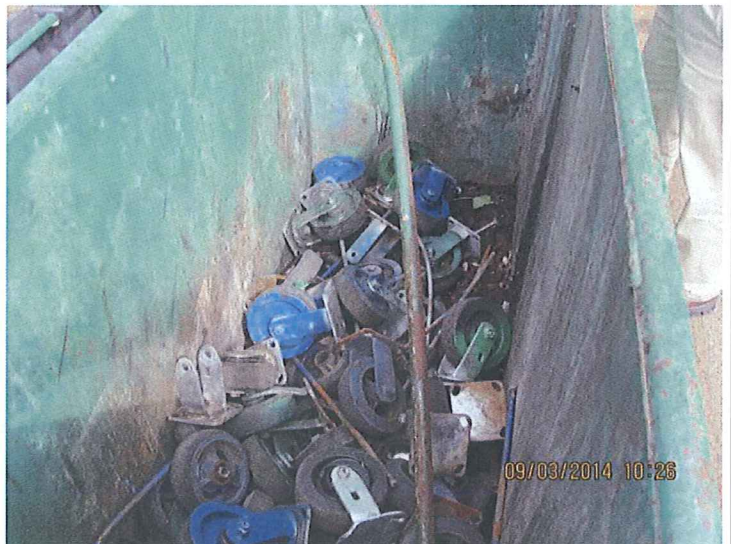
**#5. DESCRIPTION:** This catch basin has been upgraded to include a large vault that intercepts stormwater and pumps to the treatment system seen in photo # 4. Used to an outfall location.



**#6. DESCRIPTION:** Many of the garbage bins stored on site contained waste materials. The facility must implement measures to ensure that all dumpsters/bins have lids that are closed.

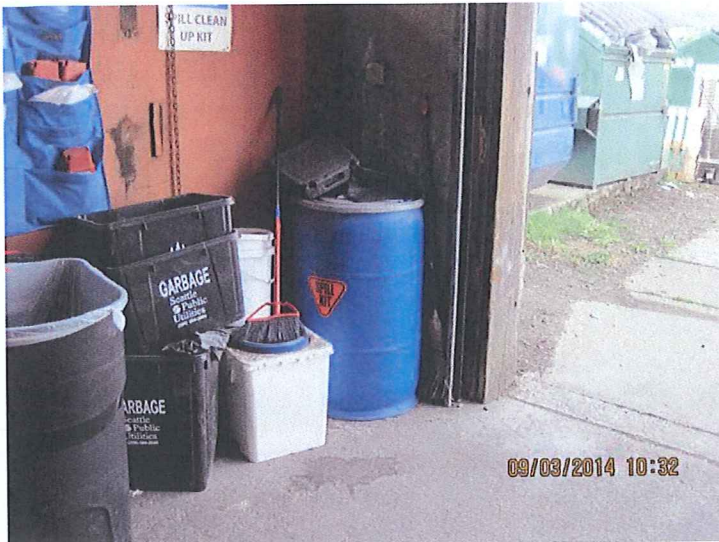


**#7. DESCRIPTION:** Improved source control measures are need at this location.

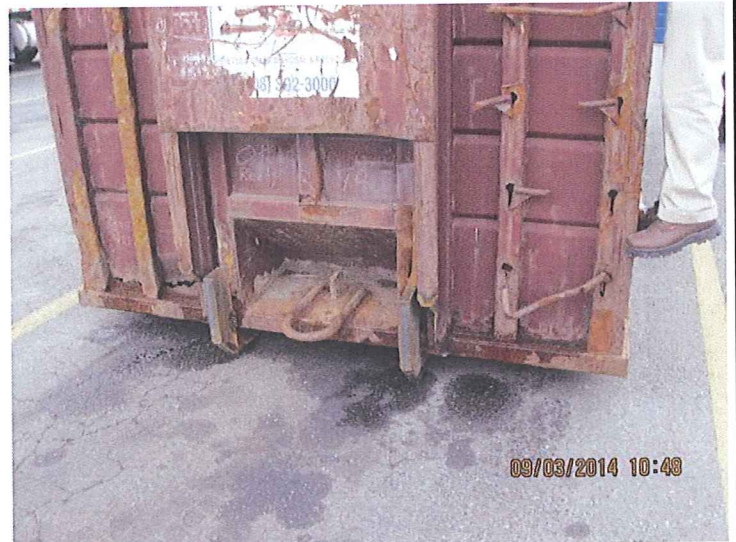


**#8. DESCRIPTION:** This waste bin must be provided with a tight fitting lid that remains closed when not in use or be kept under cover.





**#9. DESCRIPTION:** Drums or containers of liquid products or wastes that are stored near doorways that would allow a leak or spill to flow outside the building must be provided with containment or be relocated.



**#10. DESCRIPTION:** Dropboxes and dumpsters need to be checked regularly for leakage. The permit requires that all dumpsters be kept under cover or fit with a lid that must remain closed when not in use.



**#11. DESCRIPTION:** This garbage bin is used for collection/storage of kitchen grease. Transfer of fluids and materials must be better controlled to minimize or eliminate spillage to pavement.



**#12. DESCRIPTION:** The amount oil drips and leaks were very noticeable. The permit requires the inspection of all equipment and vehicles during monthly site inspections for leaking fluids such as oil, antifreeze, etc. Take leaking equipment and vehicles out of service or prevent leaks from spilling on the ground until repaired. And immediately clean up spills and leaks (e.g., using absorbents, vacuuming, etc.) to prevent the discharge of pollutants

**Attachment L-6**  
**Split Sample Results**



3600 Fremont Ave. N.  
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**CleanScapes, Inc.**  
Dan Lipinski  
117 S. Main St, Suite 300  
Seattle, WA 98104

**RE: CleanScapes Ops Center**  
**Lab ID: 1409034**

October 05, 2014

**Attention Dan Lipinski:**

Fremont Analytical, Inc. received 3 sample(s) on 9/4/2014 for the analyses presented in the following report.

***Conductivity by SM 2510B***  
***Ion Chromatography by EPA Method 300.0***  
***Mercury by EPA Method 7470***  
***Mercury by EPA Method 7471***  
***pH by SM 4500H+B***  
***Polychlorinated Biphenyls (PCB) by EPA 8082***  
***Sample Moisture (Percent Moisture)***  
***Semi-Volatile Organic Compounds by EPA Method 8270***  
***Semi-Volatile Organic Compounds by SW8270 (SIM)***  
***Total Metals by EPA Method 200.8***  
***Total Alkalinity by SM 2320B***  
***Total Metals by EPA Method 6020***  
***Total Organic Carbon by EPA Method 9060***  
***Total Organic Carbon by SM 5310C***  
***Total Suspended Solids (TSS) by SM 2540D***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Chelsea Ward  
Project Manager



Date: 10/05/2014

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**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center  
**Lab Order:** 1409034

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## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1409034-001	CS-TS-01-20140903-W	09/03/2014 12:00 PM	09/04/2014 11:02 AM
1409034-002	CS-SP-01-20140903-W	09/03/2014 2:15 PM	09/04/2014 11:02 AM
1409034-003	CS-CB-01-20140903-S	09/03/2014 1:00 PM	09/04/2014 11:02 AM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Sample CS-CB-01-20140903-S had high concentrations of TPH. The SVOC analyses required dilutions to prevent interferences.





# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 12:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-001

**Matrix:** Water

**Client Sample ID:** CS-TS-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by EPA Method 8270**

Batch ID: 8629

Analyst: MD

1-Chloropropane	ND	0		µg/L	1	9/24/2014 9:37:00 AM
4-Nitroaniline	ND	0		µg/L	1	9/24/2014 9:37:00 AM
n-Nitrosodimethylamine	ND	0		µg/L	1	9/24/2014 9:37:00 AM
3-Nitroaniline	ND	0.0245		µg/L	1	9/10/2014 12:46:00 PM
Benzoic acid	6.37	0.0503	J	µg/L	1	9/10/2014 12:46:00 PM
Aniline	ND	0.0111		µg/L	1	9/10/2014 12:46:00 PM
Phenol	1.36	0.0111		µg/L	1	9/10/2014 12:46:00 PM
2-Chlorophenol	ND	0.0157		µg/L	1	9/10/2014 12:46:00 PM
N-Nitrosodiphenylamine	ND	0.00797		µg/L	1	9/10/2014 12:46:00 PM
1,3-Dichlorobenzene	ND	0.00810		µg/L	1	9/10/2014 12:46:00 PM
1,4-Dichlorobenzene	ND	0.0161		µg/L	1	9/10/2014 12:46:00 PM
1,2-Dichlorobenzene	ND	0.0151		µg/L	1	9/10/2014 12:46:00 PM
Benzyl alcohol	ND	0.0164		µg/L	1	9/10/2014 12:46:00 PM
Bis(2-chloroethyl) ether	ND	0.0161		µg/L	1	9/10/2014 12:46:00 PM
2-Methylphenol (o-cresol)	0.279	0.0209	J	µg/L	1	9/10/2014 12:46:00 PM
Hexachloroethane	ND	0.0937		µg/L	1	9/10/2014 12:46:00 PM
N-Nitrosodi-n-propylamine	ND	0.0134		µg/L	1	9/10/2014 12:46:00 PM
Nitrobenzene	ND	0.0358		µg/L	1	9/10/2014 12:46:00 PM
Isophorone	ND	0.00837		µg/L	1	9/10/2014 12:46:00 PM
4-Methylphenol (p-cresol)	3.59	0.0166		µg/L	1	9/10/2014 12:46:00 PM
2-Nitrophenol	ND	0.0194		µg/L	1	9/10/2014 12:46:00 PM
2,4-Dimethylphenol	ND	0.0101		µg/L	1	9/10/2014 12:46:00 PM
Bis(2-chloroethoxy)methane	ND	0.0136		µg/L	1	9/10/2014 12:46:00 PM
2,4-Dichlorophenol	ND	0.0167		µg/L	1	9/10/2014 12:46:00 PM
1,2,4-Trichlorobenzene	ND	0.0114		µg/L	1	9/10/2014 12:46:00 PM
Naphthalene	ND	0.00712		µg/L	1	9/10/2014 12:46:00 PM
4-Chloroaniline	ND	0.00710	*	µg/L	1	9/10/2014 12:46:00 PM
Hexachlorobutadiene	ND	0.0139		µg/L	1	9/10/2014 12:46:00 PM
4-Chloro-3-methylphenol	ND	0.0131		µg/L	1	9/10/2014 12:46:00 PM
2-Methylnaphthalene	ND	0.00912		µg/L	1	9/10/2014 12:46:00 PM
1-Methylnaphthalene	ND	0.00779		µg/L	1	9/10/2014 12:46:00 PM
Hexachlorocyclopentadiene	ND	0.0139		µg/L	1	9/10/2014 12:46:00 PM
2,4,6-Trichlorophenol	ND	0.0171		µg/L	1	9/10/2014 12:46:00 PM
2,4,5-Trichlorophenol	ND	0.0452		µg/L	1	9/10/2014 12:46:00 PM
2-Chloronaphthalene	ND	0.0120		µg/L	1	9/10/2014 12:46:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 12:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-001

**Matrix:** Water

**Client Sample ID:** CS-TS-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by EPA Method 8270**

Batch ID: 8629

Analyst: MD

2-Nitroaniline	ND	0.0231		µg/L	1	9/10/2014 12:46:00 PM
Acenaphthene	ND	0.00698		µg/L	1	9/10/2014 12:46:00 PM
Dimethylphthalate	ND	0.00871		µg/L	1	9/10/2014 12:46:00 PM
2,6-Dinitrotoluene	ND	0.0118		µg/L	1	9/10/2014 12:46:00 PM
Acenaphthylene	ND	0.00933		µg/L	1	9/10/2014 12:46:00 PM
2,4-Dinitrophenol	ND	0.122		µg/L	1	9/10/2014 12:46:00 PM
Dibenzofuran	ND	0.0125		µg/L	1	9/10/2014 12:46:00 PM
2,4-Dinitrotoluene	ND	0.128		µg/L	1	9/10/2014 12:46:00 PM
4-Nitrophenol	ND	0.108		µg/L	1	9/10/2014 12:46:00 PM
2,3,4,6-Tetrachlorophenol	ND	0.00915		µg/L	1	9/10/2014 12:46:00 PM
Fluorene	ND	0.0105		µg/L	1	9/10/2014 12:46:00 PM
4-Chlorophenyl phenyl ether	ND	0.0183		µg/L	1	9/10/2014 12:46:00 PM
Diethylphthalate	0.653	0.0381	J	µg/L	1	9/10/2014 12:46:00 PM
4,6-Dinitro-2-methylphenol	ND	0.0482		µg/L	1	9/10/2014 12:46:00 PM
Azobenzene	ND	0.00772		µg/L	1	9/10/2014 12:46:00 PM
4-Bromophenyl phenyl ether	ND	0.0210		µg/L	1	9/10/2014 12:46:00 PM
Hexachlorobenzene	ND	0.0195		µg/L	1	9/10/2014 12:46:00 PM
Pentachlorophenol	ND	0.109		µg/L	1	9/10/2014 12:46:00 PM
Phenanthrene	ND	0.00935		µg/L	1	9/10/2014 12:46:00 PM
Anthracene	ND	0.0124		µg/L	1	9/10/2014 12:46:00 PM
Carbazole	ND	0.0159		µg/L	1	9/10/2014 12:46:00 PM
Di-n-butyl phthalate	1.13	0.00339		µg/L	1	9/10/2014 12:46:00 PM
Fluoranthene	ND	0.00830		µg/L	1	9/10/2014 12:46:00 PM
Pyrene	ND	0.0105		µg/L	1	9/10/2014 12:46:00 PM
Benzyl Butylphthalate	ND	0.00930		µg/L	1	9/10/2014 12:46:00 PM
bis(2-Ethylhexyl)adipate	ND	0.0106		µg/L	1	9/10/2014 12:46:00 PM
Benz[a]anthracene	ND	0.00488		µg/L	1	9/10/2014 12:46:00 PM
Chrysene	ND	0.0106		µg/L	1	9/10/2014 12:46:00 PM
Bis(2-ethylhexyl) phthalate	2.30	0.00698		µg/L	1	9/10/2014 12:46:00 PM
Di-n-octyl phthalate	ND	0.00659		µg/L	1	9/10/2014 12:46:00 PM
Benzo (b) fluoranthene	ND	0.0187		µg/L	1	9/10/2014 12:46:00 PM
Benzo (k) fluoranthene	ND	0.0144		µg/L	1	9/10/2014 12:46:00 PM
Benzo[a]pyrene	ND	0.0126		µg/L	1	9/10/2014 12:46:00 PM
Indeno (1,2,3-cd) pyrene	ND	0.0125		µg/L	1	9/10/2014 12:46:00 PM
Dibenzo (a,h) anthracene	ND	0.0116		µg/L	1	9/10/2014 12:46:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 12:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-001

**Matrix:** Water

**Client Sample ID:** CS-TS-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by EPA Method 8270**

Batch ID: 8629

Analyst: MD

Benzo (g,h,l) perylene	0.0291	0.0108	J	µg/L	1	9/10/2014 12:46:00 PM
Surr: 2,4,6-Tribromophenol	92.2	18-139		%REC	1	9/10/2014 12:46:00 PM
Surr: 2-Fluorobiphenyl	72.2	23.3-118		%REC	1	9/24/2014 9:37:00 AM
Surr: 2-Fluorobiphenyl	98.6	23.3-118		%REC	1	9/10/2014 12:46:00 PM
Surr: Nitrobenzene-d5	70.2	21.9-139		%REC	1	9/10/2014 12:46:00 PM
Surr: Phenol-d6	69.3	10-103		%REC	1	9/10/2014 12:46:00 PM
Surr: p-Terphenyl	73.5	41.3-140		%REC	1	9/24/2014 9:37:00 AM
Surr: p-Terphenyl	89.2	41.3-140		%REC	1	9/10/2014 12:46:00 PM

**NOTES:**

\* - Flagged value is not within established control limits.

**Ion Chromatography by EPA Method 300.0**

Batch ID: R16574

Analyst: KT

Chloride	6.68	0.0406		mg/L	1	9/4/2014 2:06:00 PM
Nitrate	ND	0.0153		mg/L	1	9/4/2014 2:06:00 PM
Sulfate	15.0	0.115		mg/L	1	9/4/2014 2:06:00 PM

**Mercury by EPA Method 7470**

Batch ID: 8626

Analyst: MW

Mercury	0.0210	0.00878		µg/L	1	9/4/2014 5:08:42 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 8625

Analyst: TN

Antimony	1.53	0.0150		µg/L	1	9/4/2014 5:23:33 PM
Arsenic	1.98	0.0720		µg/L	1	9/4/2014 5:23:33 PM
Beryllium	0.00650	0.00300	J	µg/L	1	9/4/2014 5:23:33 PM
Cadmium	0.768	0.00300		µg/L	1	9/4/2014 5:23:33 PM
Chromium	2.75	0.0620		µg/L	1	9/4/2014 5:23:33 PM
Copper	24.6	0.117		µg/L	1	9/4/2014 5:23:33 PM
Lead	5.50	0.0220		µg/L	1	9/4/2014 5:23:33 PM
Nickel	7.19	0.0370		µg/L	1	9/4/2014 5:23:33 PM
Selenium	ND	0.105		µg/L	1	9/4/2014 5:23:33 PM
Silver	ND	0.0320		µg/L	1	9/4/2014 5:23:33 PM
Thallium	0.0135	0.00200	J	µg/L	1	9/4/2014 5:23:33 PM
Zinc	266	0.328		µg/L	1	9/4/2014 5:23:33 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 12:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-001

**Matrix:** Water

**Client Sample ID:** CS-TS-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Total Organic Carbon by SM 5310C**

Batch ID: R16599 Analyst: KT

Total Organic Carbon	43.7	0.270	D	mg/L	5	9/4/2014 6:59:33 PM
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**Total Alkalinity by SM 2320B**

Batch ID: R16715 Analyst: MW

Alkalinity, Total (As CaCO3)	26.2	2.51		mg/L	1	9/10/2014 1:37:01 PM
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**Conductivity by SM 2510B**

Batch ID: R16673 Analyst: KT

Specific Conductance (Conductivity)	122	1.00		µS/cm	1	9/9/2014 4:14:00 PM
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**pH by SM 4500H+B**

Batch ID: R16600 Analyst: KT

Hydrogen Ion (pH)	6.32		H	pH	1	9/4/2014 5:52:00 PM
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**Total Suspended Solids (TSS) by SM 2540D**

Batch ID: R16676 Analyst: KT

Total Suspended Solids	5.00	1.00		mg/L	1	9/9/2014 5:02:00 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 2:15:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-002

**Matrix:** Water

**Client Sample ID:** CS-SP-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by EPA Method 8270**

Batch ID: 8629

Analyst: MD

1-Chloropropane	ND	0		µg/L	1	9/24/2014 10:25:00 AM
4-Nitroaniline	ND	0		µg/L	1	9/24/2014 10:25:00 AM
n-Nitrosodimethylamine	ND	0		µg/L	1	9/24/2014 10:25:00 AM
Phenol	ND	0.0111		µg/L	1	9/10/2014 1:31:00 PM
2-Chlorophenol	ND	0.0157		µg/L	1	9/10/2014 1:31:00 PM
1,3-Dichlorobenzene	ND	0.00810		µg/L	1	9/10/2014 1:31:00 PM
1,4-Dichlorobenzene	ND	0.0161		µg/L	1	9/10/2014 1:31:00 PM
1,2-Dichlorobenzene	ND	0.0151		µg/L	1	9/10/2014 1:31:00 PM
Benzyl alcohol	ND	0.0164		µg/L	1	9/10/2014 1:31:00 PM
Bis(2-chloroethyl) ether	ND	0.0161		µg/L	1	9/10/2014 1:31:00 PM
2-Methylphenol (o-cresol)	0.106	0.0209	J	µg/L	1	9/10/2014 1:31:00 PM
Hexachloroethane	ND	0.0937		µg/L	1	9/10/2014 1:31:00 PM
N-Nitrosodi-n-propylamine	ND	0.0134		µg/L	1	9/10/2014 1:31:00 PM
Nitrobenzene	0.125	0.0358	J	µg/L	1	9/10/2014 1:31:00 PM
Isophorone	0.146	0.00837	J	µg/L	1	9/10/2014 1:31:00 PM
4-Methylphenol (p-cresol)	ND	0.0166		µg/L	1	9/10/2014 1:31:00 PM
2-Nitrophenol	ND	0.0194		µg/L	1	9/10/2014 1:31:00 PM
2,4-Dimethylphenol	0.0906	0.0101	J	µg/L	1	9/10/2014 1:31:00 PM
Bis(2-chloroethoxy)methane	ND	0.0136		µg/L	1	9/10/2014 1:31:00 PM
2,4-Dichlorophenol	ND	0.0167		µg/L	1	9/10/2014 1:31:00 PM
1,2,4-Trichlorobenzene	ND	0.0114		µg/L	1	9/10/2014 1:31:00 PM
Naphthalene	ND	0.00712		µg/L	1	9/10/2014 1:31:00 PM
4-Chloroaniline	ND	0.00710	*	µg/L	1	9/10/2014 1:31:00 PM
Hexachlorobutadiene	ND	0.0139		µg/L	1	9/10/2014 1:31:00 PM
4-Chloro-3-methylphenol	ND	0.0131		µg/L	1	9/10/2014 1:31:00 PM
2-Methylnaphthalene	ND	0.00912		µg/L	1	9/10/2014 1:31:00 PM
1-Methylnaphthalene	ND	0.00779		µg/L	1	9/10/2014 1:31:00 PM
Hexachlorocyclopentadiene	ND	0.0139		µg/L	1	9/10/2014 1:31:00 PM
2,4,6-Trichlorophenol	ND	0.0171		µg/L	1	9/10/2014 1:31:00 PM
2,4,5-Trichlorophenol	ND	0.0452		µg/L	1	9/10/2014 1:31:00 PM
2-Chloronaphthalene	ND	0.0120		µg/L	1	9/10/2014 1:31:00 PM
2-Nitroaniline	ND	0.0231		µg/L	1	9/10/2014 1:31:00 PM
Acenaphthene	0.0428	0.00698	J	µg/L	1	9/10/2014 1:31:00 PM
Dimethylphthalate	0.186	0.00871	J	µg/L	1	9/10/2014 1:31:00 PM
2,6-Dinitrotoluene	ND	0.0118		µg/L	1	9/10/2014 1:31:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 2:15:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-002

**Matrix:** Water

**Client Sample ID:** CS-SP-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by EPA Method 8270**

Batch ID: 8629

Analyst: MD

Acenaphthylene	ND	0.00933		µg/L	1	9/10/2014 1:31:00 PM
2,4-Dinitrophenol	ND	0.122		µg/L	1	9/10/2014 1:31:00 PM
Dibenzofuran	ND	0.0125		µg/L	1	9/10/2014 1:31:00 PM
2,4-Dinitrotoluene	ND	0.128		µg/L	1	9/10/2014 1:31:00 PM
4-Nitrophenol	ND	0.108		µg/L	1	9/10/2014 1:31:00 PM
Fluorene	ND	0.0105		µg/L	1	9/10/2014 1:31:00 PM
4-Chlorophenyl phenyl ether	ND	0.0183		µg/L	1	9/10/2014 1:31:00 PM
Diethylphthalate	ND	0.0381		µg/L	1	9/10/2014 1:31:00 PM
4,6-Dinitro-2-methylphenol	ND	0.0482		µg/L	1	9/10/2014 1:31:00 PM
4-Bromophenyl phenyl ether	ND	0.0210		µg/L	1	9/10/2014 1:31:00 PM
Hexachlorobenzene	ND	0.0195		µg/L	1	9/10/2014 1:31:00 PM
Pentachlorophenol	0.151	0.109	J	µg/L	1	9/10/2014 1:31:00 PM
Phenanthrene	ND	0.00935		µg/L	1	9/10/2014 1:31:00 PM
Anthracene	ND	0.0124		µg/L	1	9/10/2014 1:31:00 PM
Carbazole	ND	0.0159		µg/L	1	9/10/2014 1:31:00 PM
Di-n-butyl phthalate	0.634	0.00339	J	µg/L	1	9/10/2014 1:31:00 PM
Fluoranthene	ND	0.00830		µg/L	1	9/10/2014 1:31:00 PM
Pyrene	ND	0.0105		µg/L	1	9/10/2014 1:31:00 PM
Benzyl Butylphthalate	0.412	0.00930	J	µg/L	1	9/10/2014 1:31:00 PM
bis(2-Ethylhexyl)adipate	ND	0.0106		µg/L	1	9/10/2014 1:31:00 PM
Benz[a]anthracene	ND	0.00488		µg/L	1	9/10/2014 1:31:00 PM
Chrysene	0.0767	0.0106	J	µg/L	1	9/10/2014 1:31:00 PM
Bis(2-ethylhexyl) phthalate	5.01	0.00698		µg/L	1	9/10/2014 1:31:00 PM
Di-n-octyl phthalate	0.414	0.00659	J	µg/L	1	9/10/2014 1:31:00 PM
Benzo (b) fluoranthene	ND	0.0187		µg/L	1	9/10/2014 1:31:00 PM
Benzo (k) fluoranthene	ND	0.0144		µg/L	1	9/10/2014 1:31:00 PM
Benzo[a]pyrene	ND	0.0126		µg/L	1	9/10/2014 1:31:00 PM
Indeno (1,2,3-cd) pyrene	ND	0.0125		µg/L	1	9/10/2014 1:31:00 PM
Dibenzo (a,h) anthracene	ND	0.0116		µg/L	1	9/10/2014 1:31:00 PM
Benzo (g,h,i) perylene	ND	0.0108		µg/L	1	9/10/2014 1:31:00 PM
Surr: 2,4,6-Tribromophenol	98.5	18-139		%REC	1	9/10/2014 1:31:00 PM
Surr: 2-Fluorobiphenyl	73.8	23.3-118		%REC	1	9/24/2014 10:25:00 AM
Surr: 2-Fluorobiphenyl	81.5	23.3-118		%REC	1	9/10/2014 1:31:00 PM
Surr: Nitrobenzene-d5	124	21.9-139		%REC	1	9/10/2014 1:31:00 PM
Surr: Phenol-d6	56.5	10-103		%REC	1	9/10/2014 1:31:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 2:15:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-002

**Matrix:** Water

**Client Sample ID:** CS-SP-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by EPA Method 8270**

Batch ID: 8629

Analyst: MD

Surr: p-Terphenyl	74.1	41.3-140		%REC	1	9/24/2014 10:25:00 AM
Surr: p-Terphenyl	87.6	41.3-140		%REC	1	9/10/2014 1:31:00 PM

**NOTES:**

\* - Flagged value is not within established control limits.

**Ion Chromatography by EPA Method 300.0**

Batch ID: R16574

Analyst: KT

Chloride	5.78	0.0406		mg/L	1	9/4/2014 2:16:00 PM
Nitrate	ND	0.0153		mg/L	1	9/4/2014 2:16:00 PM
Sulfate	11.6	0.115		mg/L	1	9/4/2014 2:16:00 PM

**Mercury by EPA Method 7470**

Batch ID: 8626

Analyst: MW

Mercury	0.0280	0.00878		µg/L	1	9/4/2014 5:15:32 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 8625

Analyst: TN

Antimony	1.55	0.0150		µg/L	1	9/4/2014 5:26:58 PM
Arsenic	1.44	0.0720		µg/L	1	9/4/2014 5:26:58 PM
Beryllium	0.00900	0.00300	J	µg/L	1	9/4/2014 5:26:58 PM
Cadmium	0.985	0.00300		µg/L	1	9/4/2014 5:26:58 PM
Chromium	2.72	0.0620		µg/L	1	9/4/2014 5:26:58 PM
Copper	28.0	0.117		µg/L	1	9/4/2014 5:26:58 PM
Lead	7.82	0.0220		µg/L	1	9/4/2014 5:26:58 PM
Nickel	6.52	0.0370		µg/L	1	9/4/2014 5:26:58 PM
Selenium	ND	0.105		µg/L	1	9/4/2014 5:26:58 PM
Silver	ND	0.0320		µg/L	1	9/4/2014 5:26:58 PM
Thallium	0.0115	0.00200	J	µg/L	1	9/4/2014 5:26:58 PM
Zinc	221	0.328		µg/L	1	9/4/2014 5:26:58 PM

**Total Organic Carbon by SM 5310C**

Batch ID: R16599

Analyst: KT

Total Organic Carbon	41.4	0.270	D	mg/L	5	9/4/2014 7:49:17 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits





# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 2:15:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-002

**Matrix:** Water

**Client Sample ID:** CS-SP-01-20140903-W

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Total Alkalinity by SM 2320B**

Batch ID: R16715 Analyst: MW

Alkalinity, Total (As CaCO3)	28.1	2.51		mg/L	1	9/10/2014 1:39:01 PM
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**Conductivity by SM 2510B**

Batch ID: R16673 Analyst: KT

Specific Conductance (Conductivity)	115	1.00		µS/cm	1	9/9/2014 4:15:00 PM
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**pH by SM 4500H+B**

Batch ID: R16600 Analyst: KT

Hydrogen Ion (pH)	6.43		H	pH	1	9/4/2014 5:53:00 PM
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**Total Suspended Solids (TSS) by SM 2540D**

Batch ID: R16676 Analyst: KT

Total Suspended Solids	15.0	1.00		mg/L	1	9/9/2014 5:06:00 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits





# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 1:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-003

**Matrix:** Sediment

**Client Sample ID:** CS-CB-01-20140903-S

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Polychlorinated Biphenyls (PCB) by EPA 8082**

Batch ID: 8714

Analyst: NG

Aroclor 1016	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1221	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1232	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1242	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1248	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1254	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1260	203	3.35		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1262	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Aroclor 1268	ND	3.28		µg/Kg-dry	1	9/15/2014 12:41:00 PM
Total PCBs	203	16.8	J	µg/Kg-dry	1	9/15/2014 12:41:00 PM
Surr: Decachlorobiphenyl	107	50.2-159		%REC	1	9/15/2014 12:41:00 PM
Surr: Tetrachloro-m-xylene	82.8	60.3-134		%REC	1	9/15/2014 12:41:00 PM

**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Batch ID: 8718

Analyst: MD

1-Chloropropane	ND	506	D	µg/Kg-dry	20	9/24/2014 12:01:00 PM
4-Nitroaniline	ND	1,100	D	µg/Kg-dry	20	9/24/2014 12:01:00 PM
N-Nitrosodimethylamine	ND	1,390	D	µg/Kg-dry	20	9/24/2014 12:01:00 PM
1,3-Dichlorobenzene	ND	170	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
1-Methylnaphthalene	ND	225	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,4,5-Trichlorophenol	ND	357	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,4,6-Trichlorophenol	ND	221	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,4-Dichlorophenol	ND	198	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,4-Dinitrophenol	ND	7,250	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,4-Dinitrotoluene	1,170	739	DJ	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,6-Dinitrotoluene	ND	284	D*	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2-Chloronaphthalene	ND	150	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2-Chlorophenol	ND	139	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2-Nitroaniline	ND	747	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2-Nitrophenol	ND	961	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
3-Nitroaniline	ND	258	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
4,6-Dinitro-2-methylphenol	ND	5,140	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
4-Bromophenyl phenyl ether	ND	253	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
4-Chloro-3-methylphenol	ND	723	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
4-Chloroaniline	ND	189	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 1:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-003

**Matrix:** Sediment

**Client Sample ID:** CS-CB-01-20140903-S

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Batch ID: 8718

Analyst: MD

4-Chlorophenyl phenyl ether	ND	209	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
4-Nitrophenol	ND	4,550	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Aniline	4,230	407	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Bis(2-chloroethoxy)methane	ND	355	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Bis(2-chloroethyl) ether	ND	309	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Carbazole	ND	582	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Hexachlorocyclopentadiene	ND	330	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Hexachloroethane	ND	688	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Isophorone	ND	216	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Nitrobenzene	ND	413	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benzoic acid	ND	396	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Phenol	ND	39.0	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benzyl alcohol	ND	515	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
4-Methylphenol (p-cresol)	ND	48.5	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Naphthalene	ND	5.19	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2-Methylnaphthalene	837	21.3	DJ	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Acenaphthene	741	14.8	DJ	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Dimethylphthalate	1,550	23.6	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Acenaphthylene	992	9.21	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Dibenzofuran	ND	5.44	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Fluorene	1,130	6.07	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Phenanthrene	1,270	11.8	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Anthracene	1,690	13.0	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Di-n-butylphthalate	3,150	9.54	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Fluoranthene	3,570	11.4	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Pyrene	ND	10.4	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benz (a) anthracene	1,600	16.2	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Chrysene	2,530	22.6	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
bis (2-Ethylhexyl) phthalate	154,000	35.6	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Di-n-octyl phthalate	15,600	56.0	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benzo (b,j) fluoranthene	3,220	21.3	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benzo (k) fluoranthene	1,410	45.8	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benzo (a) pyrene	3,040	22.7	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Indeno (1,2,3-cd) pyrene	3,370	28.8	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Benzo (g,h,i) perylene	3,370	26.5	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 1:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-003

**Matrix:** Sediment

**Client Sample ID:** CS-CB-01-20140903-S

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Batch ID: 8718

Analyst: MD

3,3'-Dichlorobenzidine	ND	4,210	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Surr: 2,4,6-Tribromophenol	108	14-136	D	%REC	20	9/16/2014 12:09:00 PM
Surr: 2-Fluorobiphenyl	72.4	42.6-139	D	%REC	20	9/16/2014 12:09:00 PM
Surr: 2-Fluorobiphenyl	66.8	42.6-139	D	%REC	20	9/24/2014 12:01:00 PM
Surr: Nitrobenzene-d5	67.5	45.1-149	D	%REC	20	9/16/2014 12:09:00 PM
Surr: Phenol-d6	87.8	48.2-143	D	%REC	20	9/16/2014 12:09:00 PM
Surr: p-Terphenyl	99.1	33.3-149	D	%REC	20	9/16/2014 12:09:00 PM
Surr: p-Terphenyl	98.4	33.3-149	D	%REC	20	9/24/2014 12:01:00 PM

**NOTES:**

\* - Flagged value is not within established control limits.

**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Batch ID: 8718

Analyst: NG

N-Nitrosodi-n-propylamine	ND	676	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
N-Nitrosodiphenylamine	ND	21.2	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
1,4-Dichlorobenzene	ND	6.59	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
1,2-Dichlorobenzene	ND	10.9	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2-Methylphenol (o-cresol)	ND	60.0	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
2,4-Dimethylphenol	ND	71.0	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
1,2,4-Trichlorobenzene	ND	5.97	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Hexachlorobutadiene	ND	9.54	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Dimethylphthalate	1,550	23.6	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Hexachlorobenzene	ND	12.0	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Pentachlorophenol	ND	63.5	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Butyl Benzylphthalate	7,600	78.5	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Dibenz (a,h) anthracene	3,800	37.2	D	µg/Kg-dry	20	9/16/2014 12:09:00 PM
Surr: 2,4,6-Tribromophenol	53.0	14-136	D	%REC	20	9/16/2014 12:09:00 PM
Surr: 2-Fluorobiphenyl	70.8	42.6-139	D	%REC	20	9/16/2014 12:09:00 PM
Surr: Nitrobenzene-d5	53.4	45.1-149	D	%REC	20	9/16/2014 12:09:00 PM
Surr: Phenol-d6	36.5	48.2-143	DS	%REC	20	9/16/2014 12:09:00 PM
Surr: p-Terphenyl	97.0	33.3-149	D	%REC	20	9/16/2014 12:09:00 PM

**NOTES:**

S - Outlying surrogate recovery observed. A duplicate analysis was performed with similar results indicating a matrix effect.

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409034

Date Reported: 10/5/2014

**Client:** CleanScapes, Inc.

**Collection Date:** 9/3/2014 1:00:00 PM

**Project:** CleanScapes Ops Center

**Lab ID:** 1409034-003

**Matrix:** Sediment

**Client Sample ID:** CS-CB-01-20140903-S

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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**Mercury by EPA Method 7471**

Batch ID: 8713

Analyst: MW

Mercury	0.265	0.00169	J	mg/Kg-dry	1	9/15/2014 12:10:04 PM
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**Total Metals by EPA Method 6020**

Batch ID: 8727

Analyst: TN

Antimony	3.30	0.0128		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Arsenic	7.47	0.0589		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Beryllium	0.136	0.00219	J	mg/Kg-dry	1	9/16/2014 1:12:02 PM
Cadmium	2.04	0.00269		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Chromium	53.3	0.0521		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Copper	125	0.0986		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Lead	144	0.0153		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Nickel	35.4	0.0308		mg/Kg-dry	1	9/16/2014 1:12:02 PM
Selenium	1.11	0.0883	J	mg/Kg-dry	1	9/16/2014 1:12:02 PM
Silver	0.244	0.0269	J	mg/Kg-dry	1	9/16/2014 1:12:02 PM
Thallium	0.0666	0.00168	J	mg/Kg-dry	1	9/16/2014 1:12:02 PM
Zinc	764	0.276		mg/Kg-dry	1	9/16/2014 1:12:02 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R16757

Analyst: KZ

Percent Moisture	53.6			wt%	1	9/15/2014 8:01:07 AM
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**Total Organic Carbon by EPA Method 9060**

Batch ID: 8748

Analyst: KT

Total Organic Carbon	7.22	0.00645		%-dry	1	9/17/2014 2:50:49 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Alkalinity by SM 2320B**

Sample ID: <b>MB-R16715</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>9/10/2014</b>	RunNo: <b>16715</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16715</b>	Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335930</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	1.00									

Sample ID: <b>LCS-R16715</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>9/10/2014</b>	RunNo: <b>16715</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R16715</b>	Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335931</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	97.5	1.00	100.0	0	97.5	80	120				

Sample ID: <b>1409031-001FDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>9/10/2014</b>	RunNo: <b>16715</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R16715</b>	Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335933</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	46.2	1.00						46.25	0	20	

**Qualifiers:**
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Conductivity by SM 2510B**

Sample ID: <b>MB-R16673</b>	SampType: <b>MBLK</b>	Units: <b>µS/cm</b>	Prep Date: <b>9/9/2014</b>	RunNo: <b>16673</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16673</b>		Analysis Date: <b>9/9/2014</b>	SeqNo: <b>335063</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) ND 1.00

Sample ID: <b>LCS-R16673</b>	SampType: <b>LCS</b>	Units: <b>µS/cm</b>	Prep Date: <b>9/9/2014</b>	RunNo: <b>16673</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R16673</b>		Analysis Date: <b>9/9/2014</b>	SeqNo: <b>335064</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) 1,010 1.00 1,000 0 101 85 135

Sample ID: <b>1409025-001CDUP</b>	SampType: <b>DUP</b>	Units: <b>µS/cm</b>	Prep Date: <b>9/9/2014</b>	RunNo: <b>16673</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R16673</b>		Analysis Date: <b>9/9/2014</b>	SeqNo: <b>335066</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Specific Conductance (Conductivity) 20.9 1.00 20.70 0.962 30

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

Sample ID: <b>MB-R16574</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333388</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.100									
Nitrate	ND	0.100									
Sulfate	ND	0.300									

Sample ID: <b>LCS-R16574</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333391</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	2.98	0.100	3.000	0	99.2	90	110				
Nitrate	3.14	0.100	3.000	0	105	90	110				
Sulfate	15.9	0.300	15.00	0	106	90	110				

Sample ID: <b>1409034-001DDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333395</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	6.67	0.100						6.676	0.0764	20	
Nitrate	ND	0.100						0	0	20	
Sulfate	14.9	0.300						14.95	0.327	20	

Sample ID: <b>1409034-001DMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333396</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	9.96	0.100	3.000	6.676	109	80	120				
Nitrate	2.81	0.100	3.000	0	93.6	80	120				
Sulfate	31.5	0.300	15.00	14.95	110	80	120				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

Sample ID: <b>1409034-001DMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333396</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>1409034-001DMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333397</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	10.0	0.100	3.000	6.676	111	80	120	9.958	0.622	20	
Nitrate	2.80	0.100	3.000	0	93.4	80	120	2.807	0.169	20	
Sulfate	31.6	0.300	15.00	14.95	111	80	120	31.45	0.484	20	

Sample ID: <b>TAP BLANK</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16574</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16574</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333582</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4.06	0.100									
Nitrate	ND	0.100									

**NOTES:**  
 Source: 3600 Fremont Ave. N. Seattle WA, 98013

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**pH by SM 4500H+B**

Sample ID: <b>MB-R16600</b>	SampType: <b>MBLK</b>	Units: <b>pH</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16600</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16600</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333888</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 7.39

Sample ID: <b>LCS-R16600</b>	SampType: <b>LCS</b>	Units: <b>pH</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16600</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R16600</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333889</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 7.01 7.000 0 100 95 105

Sample ID: <b>1409034-002DDUP</b>	SampType: <b>DUP</b>	Units: <b>pH</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16600</b>							
Client ID: <b>CS-SP-01-20140903-W</b>	Batch ID: <b>R16600</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333892</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hydrogen Ion (pH) 6.44 6.430 0.155 10 H

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/5/2014

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Organic Carbon by EPA Method 9060**

Sample ID: <b>MB-8748</b>	SampType: <b>MBLK</b>	Units: <b>%-dry</b>				Prep Date: <b>9/17/2014</b>	RunNo: <b>16817</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>8748</b>					Analysis Date: <b>9/17/2014</b>	SeqNo: <b>337781</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon ND 0.0500

Sample ID: <b>LCS-8748</b>	SampType: <b>LCS</b>	Units: <b>%-dry</b>				Prep Date: <b>9/17/2014</b>	RunNo: <b>16817</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>8748</b>					Analysis Date: <b>9/17/2014</b>	SeqNo: <b>337782</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 0.539 0.0500 0.6510 0 82.8 41.1 157

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>%-dry</b>				Prep Date: <b>9/17/2014</b>	RunNo: <b>16817</b>				
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8748</b>					Analysis Date: <b>9/17/2014</b>	SeqNo: <b>337784</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 7.61 0.0500 7.222 5.27 30

Sample ID: <b>1409034-003AMS</b>	SampType: <b>MS</b>	Units: <b>%-dry</b>				Prep Date: <b>9/17/2014</b>	RunNo: <b>16817</b>				
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8748</b>					Analysis Date: <b>9/17/2014</b>	SeqNo: <b>337785</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 9.34 0.0500 2.000 7.222 106 50.2 118

Sample ID: <b>1409034-003AMSD</b>	SampType: <b>MSD</b>	Units: <b>%-dry</b>				Prep Date: <b>9/17/2014</b>	RunNo: <b>16817</b>				
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8748</b>					Analysis Date: <b>9/17/2014</b>	SeqNo: <b>337786</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Organic Carbon 7.95 0.0500 1.000 7.222 73.1 50.2 118 9.338 16.0 20

**Qualifiers:** B Analyte detected in the associated Method Blank D Dilution was required E Value above quantitation range  
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits RL Reporting Limit S Spike recovery outside accepted recovery limits



Date: 10/5/2014

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Organic Carbon by SM 5310C**

Sample ID: <b>MB-R16599</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16599</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16599</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333878</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	0.142	0.500									J

Sample ID: <b>LCS-R16599</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16599</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R16599</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333879</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.94	0.500	5.000	0	98.8	80	120				

Sample ID: <b>1409034-001CDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16599</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16599</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333881</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	44.6	2.50						43.70	1.94	20	D

Sample ID: <b>1409034-001CMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16599</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16599</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333884</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	66.1	2.50	25.00	43.70	89.6	70	130				D

Sample ID: <b>1409034-001CMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16599</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16599</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333885</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	67.3	2.50	25.00	43.70	94.4	70	130	66.10	1.80	30	D

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Suspended Solids (TSS) by SM 2540D**

Sample ID: <b>MB-R16676</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>9/9/2014</b>	RunNo: <b>16676</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R16676</b>	Analysis Date: <b>9/9/2014</b>	SeqNo: <b>335101</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Suspended Solids	ND	1.00									
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Sample ID: <b>1409034-001DDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>9/9/2014</b>	RunNo: <b>16676</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>R16676</b>	Analysis Date: <b>9/9/2014</b>	SeqNo: <b>335103</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Suspended Solids	6.00	1.00						5.000	18.2	30	
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**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>MB-8625</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8625</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333563</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	0.200									
Arsenic	0.0738	1.00									J
Beryllium	ND	0.200									
Cadmium	ND	0.200									
Chromium	ND	0.500									
Copper	ND	0.500									
Lead	ND	1.00									
Nickel	ND	0.500									
Selenium	ND	1.00									
Silver	ND	0.200									
Thallium	ND	0.200									
Zinc	ND	1.50									

Sample ID: <b>LCS-8625</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8625</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333564</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	4.69	0.200	5.000	0	93.8	85	115				
Arsenic	94.0	1.00	100.0	0	94.0	85	115				
Beryllium	5.13	0.200	5.000	0	103	85	115				
Cadmium	5.56	0.200	5.000	0	111	85	115				
Chromium	106	0.500	100.0	0	106	85	115				
Copper	106	0.500	100.0	0	106	85	115				
Lead	48.9	1.00	50.00	0	97.8	85	115				
Nickel	104	0.500	100.0	0	104	85	115				
Selenium	10.5	1.00	10.00	0	105	85	115				
Silver	4.63	0.200	5.000	0	92.6	85	115				
Thallium	2.38	0.200	2.500	0	95.3	85	115				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/5/2014

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>LCS-8625</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>8625</b>					Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333564</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc 110 1.50 100.0 0 110 85 115

Sample ID: <b>1409031-001DDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>				Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>8625</b>					Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333566</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.110	0.200						0.1440	27.2	30	J
Arsenic	0.394	1.00						0.8865	77.0	30	J
Beryllium	0.0345	0.200						0	200	30	J
Cadmium	0.0135	0.200						0.02400	56.0	30	J
Chromium	3.04	0.500						3.314	8.56	30	
Copper	2.02	0.500						2.064	2.35	30	
Lead	0.379	1.00						0.3915	3.24	30	J
Nickel	5.62	0.500						6.439	13.5	30	
Selenium	ND	1.00						0	0	30	
Silver	ND	0.200						0	0	30	
Thallium	0.00800	0.200						0.01000	22.2	30	J
Zinc	5.18	1.50						6.436	21.6	30	

Sample ID: <b>1409031-001DMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>				Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>8625</b>					Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333567</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	23.4	0.200	25.00	0.1440	93.2	70	130				
Arsenic	468	1.00	500.0	0.8865	93.5	70	130				
Beryllium	26.2	0.200	25.00	0	105	70	130				
Cadmium	27.5	0.200	25.00	0.02400	110	70	130				
Chromium	553	0.500	500.0	3.314	110	70	130				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>1409031-001DMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8625</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333567</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	511	0.500	500.0	2.064	102	70	130				
Lead	238	1.00	250.0	0.3915	95.2	70	130				
Nickel	539	0.500	500.0	6.439	107	70	130				
Selenium	53.0	1.00	50.00	0	106	70	130				
Silver	21.7	0.200	25.00	0	86.6	70	130				
Thallium	11.6	0.200	12.50	0.01000	92.8	70	130				
Zinc	570	1.50	500.0	6.436	113	70	130				

Sample ID: <b>1409031-001DMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16576</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8625</b>		Analysis Date: <b>9/4/2014</b>	SeqNo: <b>333568</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	23.7	0.200	25.00	0.1440	94.3	70	130	23.44	1.18	30	
Arsenic	471	1.00	500.0	0.8865	94.1	70	130	468.3	0.622	30	
Beryllium	26.2	0.200	25.00	0	105	70	130	26.20	0.147	30	
Cadmium	27.8	0.200	25.00	0.02400	111	70	130	27.47	1.20	30	
Chromium	551	0.500	500.0	3.314	109	70	130	553.4	0.524	30	
Copper	542	0.500	500.0	2.064	108	70	130	510.8	5.90	30	
Lead	242	1.00	250.0	0.3915	96.8	70	130	238.5	1.66	30	
Nickel	539	0.500	500.0	6.439	106	70	130	539.3	0.139	30	
Selenium	52.9	1.00	50.00	0	106	70	130	52.98	0.0727	30	
Silver	22.5	0.200	25.00	0	89.9	70	130	21.66	3.74	30	
Thallium	11.8	0.200	12.50	0.01000	94.0	70	130	11.61	1.32	30	
Zinc	579	1.50	500.0	6.436	115	70	130	570.1	1.59	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>MB-8727</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8727</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337215</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	0.200									
Arsenic	0.0565	0.100									J
Beryllium	ND	0.200									
Cadmium	ND	0.200									
Chromium	0.0181	0.100									J
Copper	0.0460	0.200									J
Lead	0.00805	0.200									J
Nickel	ND	0.100									
Selenium	0.199	0.500									J
Silver	0.00125	0.100									J
Thallium	ND	0.200									
Zinc	ND	0.400									

Sample ID: <b>LCS-8727</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8727</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337216</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	106	0.200	91.30	0	116	19.5	258.5				
Arsenic	110	0.100	104.0	0	105	69.5	130.8				
Beryllium	74.1	0.200	61.90	0	120	73.3	126.5				
Cadmium	111	0.200	92.80	0	120	73.3	127.2				
Chromium	73.7	0.100	62.90	0	117	67.9	132				
Copper	87.2	0.200	84.20	0	104	74	125.9				
Lead	324	0.200	319.0	0	101	75.9	124.1				
Nickel	329	0.100	301.0	0	109	74.4	125.6				
Selenium	67.6	0.500	77.70	0	87.0	63.1	136.4				
Silver	50.6	0.100	48.50	0	104	66.4	133.6				
Thallium	72.5	0.200	71.40	0	102	65.3	134.7				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits





Date: 10/5/2014

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>LCS-8727</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8727</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337216</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc 494 0.400 425.0 0 116 72.7 127.3

Sample ID: <b>1409140-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8727</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337218</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.124	0.230						0.2487	66.8	30	J
Arsenic	4.04	0.115						3.948	2.23	30	
Beryllium	0.320	0.230						0.3866	18.7	30	
Cadmium	0.271	0.230						0.2947	8.48	30	
Chromium	29.4	0.115						32.87	11.1	30	
Copper	50.3	0.230						50.69	0.726	30	
Lead	138	0.230						130.9	5.59	30	
Nickel	29.0	0.115						35.15	19.0	30	
Selenium	1.35	0.576						1.443	6.80	30	
Silver	0.0768	0.115						0.07852	2.21	30	J
Thallium	0.0318	0.230						0.03823	18.4	30	J
Zinc	170	0.461						157.9	7.44	30	

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8727</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337220</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	1.25	0.232	2.905	0.2487	34.3	75	125				S
Arsenic	54.6	0.116	58.09	3.948	87.2	75	125				
Beryllium	4.32	0.232	2.905	0.3866	136	75	125				S
Cadmium	3.86	0.232	2.905	0.2947	123	75	125				
Chromium	91.9	0.116	58.09	32.87	102	75	125				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8727</b>	Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337220</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	102	0.232	58.09	50.69	88.7	75	125				
Lead	154	0.232	29.05	130.9	79.2	75	125				
Nickel	95.2	0.116	58.09	35.15	103	75	125				
Selenium	5.98	0.581	5.809	1.443	78.1	75	125				
Silver	2.64	0.116	2.905	0.07852	88.0	75	125				
Thallium	1.30	0.232	1.452	0.03823	86.6	75	125				
Zinc	251	0.465	58.09	157.9	161	75	125				S

**NOTES:**

S - Outlying spike recoveries observed for Sb and Zn. A duplicate analysis was performed with similar results indicating a possible matrix effect.  
 S - Outlying spike recovery observed for Be. A duplicate analysis was performed and was within range.

Sample ID: <b>1409140-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8727</b>	Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337221</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	1.04	0.230	2.881	0.2487	27.3	75	125	1.246	18.4	30	S
Arsenic	50.1	0.115	57.62	3.948	80.1	75	125	54.62	8.65	30	
Beryllium	3.35	0.230	2.881	0.3866	103	75	125	4.325	25.3	30	
Cadmium	3.13	0.230	2.881	0.2947	98.4	75	125	3.856	20.8	30	
Chromium	83.8	0.115	57.62	32.87	88.3	75	125	91.89	9.25	30	
Copper	96.1	0.230	57.62	50.69	78.9	75	125	102.2	6.12	30	
Lead	159	0.230	28.81	130.9	96.8	75	125	153.9	3.12	30	
Nickel	80.8	0.115	57.62	35.15	79.3	75	125	95.16	16.3	30	
Selenium	5.09	0.576	5.762	1.443	63.3	75	125	5.979	16.1	30	S
Silver	2.27	0.115	2.881	0.07852	76.0	75	125	2.635	14.9	30	
Thallium	1.16	0.230	1.440	0.03823	77.8	75	125	1.296	11.1	30	
Zinc	197	0.461	57.62	157.9	68.7	75	125	251.2	24.0	30	S

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>1409140-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8727</b>	Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337221</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

S - Outlying spike recoveries observed for Sb and Zn. A duplicate analysis was performed with similar results indicating a possible matrix effect.  
S - Outlying spike recovery observed for Se. A duplicate analysis was performed and was within range.

Sample ID: <b>1409140-001APDS</b>	SampType: <b>PDS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/16/2014</b>	RunNo: <b>16779</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8727</b>	Analysis Date: <b>9/16/2014</b>	SeqNo: <b>337222</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	2.94	0.229	2.86	0.249	94.0	75	125				
Zinc	250	0.457	57.2	158	162	75	125				S

**NOTES:**

S - Analyte concentration was too high for accurate spike recovery.

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Mercury by EPA Method 7471**

Sample ID: <b>MB-8713</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16765</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8713</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>336758</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.250

Sample ID: <b>LCS-8713</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16765</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8713</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>336759</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 5.66 0.250 5.000 0 113 80 120

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16765</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8713</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>336761</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.164 0.481 0.2653 47.3 20 J

Sample ID: <b>1409034-003AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16765</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8713</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>336762</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 1.15 0.508 1.016 0.2653 87.3 70 130

Sample ID: <b>1409034-003AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16765</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8713</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>336763</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 1.15 0.489 0.9787 0.2653 89.9 70 130 1.152 0.579 20

**Qualifiers:** B Analyte detected in the associated Method Blank  
D Dilution was required  
E Value above quantitation range  
H Holding times for preparation or analysis exceeded  
J Analyte detected below quantitation limits  
ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits  
RL Reporting Limit  
S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Mercury by EPA Method 7470**

Sample ID: <b>MB-8626</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16706</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8626</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>335776</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.0200

Sample ID: <b>LCS-8626</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16706</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8626</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>335777</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.71 0.0200 2.500 0 108 70 130

Sample ID: <b>1409034-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16706</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8626</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>335779</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0280 0.0200 0.02100 28.6 20

Sample ID: <b>1409034-001BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16706</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8626</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>335780</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.45 0.0200 2.500 0.02100 97.2 70 130

Sample ID: <b>1409034-001BMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16706</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8626</b>	Analysis Date: <b>9/4/2014</b>	SeqNo: <b>335781</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.61 0.0200 2.500 0.02100 104 70 130 2.450 6.32 20

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits  
D Dilution was required  
J Analyte detected below quantitation limits  
RL Reporting Limit  
E Value above quantitation range  
ND Not detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Polychlorinated Biphenyls (PCB) by EPA 8082**

Sample ID: <b>MB-8714</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16818</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8714</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>343815</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	4.00									
Aroclor 1221	ND	4.00									
Aroclor 1232	ND	4.00									
Aroclor 1242	ND	4.00									
Aroclor 1248	ND	4.00									
Aroclor 1254	ND	4.00									
Aroclor 1260	ND	4.00									
Aroclor 1262	ND	4.00									
Aroclor 1268	ND	4.00									
Total PCBs	ND	4.00									
Surr: Decachlorobiphenyl	39,500		50,000		79.0	50.2	159				
Surr: Tetrachloro-m-xylene	38,700		50,000		77.3	60.3	134				

Sample ID: <b>LCS-8714</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16818</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8714</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>343816</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1,090	4.00	1,000	0	109	65	135				
Aroclor 1260	1,110	4.00	1,000	0	111	65	135				
Surr: Decachlorobiphenyl	43,800		50,000		87.6	50.2	159				
Surr: Tetrachloro-m-xylene	40,500		50,000		81.0	60.3	134				

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16818</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8714</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>343818</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	8.42						0	0	30	
Aroclor 1221	ND	8.42						0	0	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Polychlorinated Biphenyls (PCB) by EPA 8082**

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16818</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8714</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>343818</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1232	ND	8.42						0	0	30	
Aroclor 1242	ND	8.42						0	0	30	
Aroclor 1248	ND	8.42						0	0	30	
Aroclor 1254	ND	8.42						0	0	30	
Aroclor 1260	139	8.42						203.3	37.7	30	R
Aroclor 1262	ND	8.42						0	0	30	
Aroclor 1268	ND	8.42						0	0	30	
Total PCBs	139	210						203.3	37.7	30	J
Surr: Decachlorobiphenyl	86,400		105,200		82.1	50.2	159		0		
Surr: Tetrachloro-m-xylene	80,400		105,200		76.4	60.3	134		0		

**NOTES:**

R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>16818</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8714</b>		Analysis Date: <b>9/15/2014</b>	SeqNo: <b>343926</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1,250	5.51	1,378	0	91.0	65	135				
Aroclor 1260	1,250	5.51	1,378	0	90.6	65	135				
Surr: Decachlorobiphenyl	51,600		68,920		74.9	50.2	159				
Surr: Tetrachloro-m-xylene	48,900		68,920		71.0	60.3	134				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>MB-8718</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17134</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>343826</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Chloropropane	ND	20.0									
4-Nitroaniline	ND	100									
N-Nitrosodimethylamine	ND	33.0									
Surr: 2-Fluorobiphenyl	406		500.0		81.2	42.6	139				
Surr: p-Terphenyl	403		500.0		80.5	33.3	149				

Sample ID: <b>LCS-8718</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17134</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>343827</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Chloropropane	1,120	20.0	1,000	0	112	50	150				
4-Nitroaniline	893	100	1,000	0	89.3	50	150				
N-Nitrosodimethylamine	1,110	33.0	1,000	0	111	50	150				
Surr: 2-Fluorobiphenyl	415		500.0		82.9	42.6	139				
Surr: p-Terphenyl	402		500.0		80.4	33.3	149				

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17134</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>343829</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Chloropropane	ND	835						0	0	50	D
4-Nitroaniline	ND	4,180						0	0	50	D
N-Nitrosodimethylamine	ND	1,380						0	0	50	D
Surr: 2-Fluorobiphenyl	941		1,129		83.4	42.6	139		0		D
Surr: p-Terphenyl	1,120		1,129		99.2	33.3	149		0		D

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17134</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>344130</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Chloropropane	1,160	28.0	1,398	141.9	72.8	50	150				
4-Nitroaniline	1,550	140	1,398	0	111	50	150				
N-Nitrosodimethylamine	1,280	46.1	1,398	0	91.5	50	150				
Surr: 2-Fluorobiphenyl	362		698.8		51.8	42.6	139				
Surr: p-Terphenyl	561		698.8		80.3	33.3	149				

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344330</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	835						0	0	50	D
1-Methylnaphthalene	ND	835						0	0	50	D
2,4,5-Trichlorophenol	ND	4,180						0	0	50	D
2,4,6-Trichlorophenol	ND	4,180						0	0	50	D
2,4-Dichlorophenol	ND	4,180						0	0	50	D
2,4-Dinitrophenol	ND	8,350						0	0	50	D
2,4-Dinitrotoluene	ND	4,180						0	0	50	D
2,6-Dinitrotoluene	ND	4,180						0	0	50	D*
2-Chloronaphthalene	ND	835						0	0	50	D
2-Chlorophenol	ND	835						0	0	50	D
2-Nitroaniline	ND	4,180						0	0	50	D
2-Nitrophenol	ND	4,180						0	0	50	D
3-Nitroaniline	ND	4,180						0	0	50	D
4,6-Dinitro-2-methylphenol	ND	8,350						0	0	50	D
4-Bromophenyl phenyl ether	ND	835						0	0	50	D
4-Chloro-3-methylphenol	ND	4,180						0	0	50	D
4-Chloroaniline	ND	4,180						0	0	50	D
4-Chlorophenyl phenyl ether	ND	835						0	0	50	D

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344330</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	4,180						0	0	50	D
Aniline	ND	835						0	0	50	D
Bis(2-chloroethoxy)methane	ND	835						0	0	50	D
Bis(2-chloroethyl) ether	ND	835						0	0	50	D
Carbazole	ND	835						0	0	50	D
Hexachlorocyclopentadiene	ND	4,180						0	0	50	D
Hexachloroethane	ND	835						0	0	50	D
Isophorone	ND	835						0	0	50	D
Nitrobenzene	ND	835						0	0	50	D
Benzoic acid	ND	8,350						0	0	50	D
Phenol	ND	835						0	0	50	D
Benzyl alcohol	ND	835						0	0	50	D
4-Methylphenol (p-cresol)	ND	835						0	0	50	D
Naphthalene	ND	835						0	0	50	D
2-Methylnaphthalene	949	835						0	200	50	D
Acenaphthene	ND	835						0	0	50	D
Dimethylphthalate	1,440	835						0	200	50	D
Acenaphthylene	ND	835						0	0	50	D
Dibenzofuran	ND	835						0	0	50	D
Fluorene	1,260	835						0	200	50	D
Phenanthrene	1,360	835						1,171	15.2	50	D
Anthracene	1,590	835						480.3	107	50	DR
Di-n-butylphthalate	4,480	835						0	200	50	D
Fluoranthene	2,970	835						1,120	90.3	50	DR
Pyrene	3,680	835						1,883	64.5	50	DR
Benz (a) anthracene	1,470	835						1,041	34.0	50	D
Chrysene	2,330	835						0	200	50	D
bis (2-Ethylhexyl) phthalate	166,000	835						0	200	50	D
Di-n-octyl phthalate	18,900	835						0	200	50	D

**Qualifiers:** B Analyte detected in the associated Method Blank      D Dilution was required      E Value above quantitation range  
H Holding times for preparation or analysis exceeded      J Analyte detected below quantitation limits      ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits      RL Reporting Limit      S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344330</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo (b,j) fluoranthene	3,330	835						498.5	148	50	DR
Benzo (k) fluoranthene	1,180	835						635.8	59.9	50	D
Benzo (a) pyrene	2,680	835						0	200	50	D
Indeno (1,2,3-cd) pyrene	3,600	835						4,585	24.2	50	DR
Benzo (g,h,i) perylene	3,360	835						1,069	103	50	DR
3,3'-Dichlorobenzidine	ND	4,180						0	0	50	D
Surr: 2,4,6-Tribromophenol	4,830		4,177		116	14	136		0		D
Surr: 2-Fluorobiphenyl	1,510		2,088		72.5	42.6	139		0		D
Surr: Nitrobenzene-d5	1,610		2,088		77.2	45.1	149		0		D
Surr: Phenol-d6	3,850		4,177		92.1	48.2	143		0		D
Surr: p-Terphenyl	2,080		2,088		99.6	33.3	149		0		D

**NOTES:**

R - High RPD due to suspected sample inhomogeneity/sample matrix. The method is in control as indicated by the Laboratory Control Sample (LCS).

\* - Flagged value is not within established control limits.

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344332</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	1,020	28.0	1,398	0	73.2	69.1	117				
1-Methylnaphthalene	9,900	28.0	1,398	9,155	53.0	70.4	124				S
2,4,5-Trichlorophenol	1,890	140	1,398	0	135	54.7	127				S
2,4,6-Trichlorophenol	1,510	140	1,398	0	108	62.7	122				
2,4-Dichlorophenol	1,970	140	1,398	0	141	56.2	128				S
2,4-Dinitrophenol	1,040	280	1,398	0	74.5	35.3	144				
2,4-Dinitrotoluene	854	140	1,398	0	61.1	30.9	139				
2,6-Dinitrotoluene	ND	140	1,398	0	0	56.8	137				S*
2-Chloronaphthalene	1,420	28.0	1,398	0	101	69.8	126				
2-Chlorophenol	1,250	28.0	1,398	0	89.1	44	134				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>
Client ID: <b>BATCH</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344332</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Nitroaniline	2,030	140	1,398	0	146	39.3	145				S
2-Nitrophenol	1,910	140	1,398	0	137	46.3	118				S
4,6-Dinitro-2-methylphenol	1,520	280	1,398	0	109	21.9	143				
4-Bromophenyl phenyl ether	1,430	28.0	1,398	0	102	69.6	136				
4-Chloro-3-methylphenol	1,210	140	1,398	0	86.6	36.8	159				
4-Chloroaniline	1,040	140	1,398	0	74.4	27	126				
4-Chlorophenyl phenyl ether	1,500	28.0	1,398	0	107	70.9	128				
4-Nitrophenol	1,310	140	1,398	0	94.1	48.6	137				
Bis(2-chloroethoxy)methane	1,350	28.0	1,398	0	96.6	66.8	124				
Bis(2-chloroethyl) ether	1,220	28.0	1,398	0	87.1	65.4	115				
Carbazole	1,690	28.0	1,398	0	121	64.1	152				
Hexachlorocyclopentadiene	277	140	1,398	0	19.8	37.5	129				S
Hexachloroethane	953	28.0	1,398	0	68.2	67.1	118				
Isophorone	1,470	28.0	1,398	0	105	61.8	132				
Nitrobenzene	1,380	28.0	1,398	0	98.7	61.4	130				
Benzoic acid	3,240	280	1,398	0	232	50	150				S
Phenol	1,360	28.0	1,398	0	97.5	29.2	146				
Benzyl alcohol	ND	28.0	1,398	0	0	30.8	159				S
4-Methylphenol (p-cresol)	2,050	28.0	1,398	0	147	65.5	127				S
Naphthalene	4,490	28.0	1,398	3,201	92.6	44.4	136				
2-Methylnaphthalene	18,500	28.0	1,398	17,070	101	51.7	138				
Acenaphthene	2,790	28.0	1,398	1,680	79.5	49.6	129				
Dimethylphthalate	1,360	28.0	1,398	0	97.5	61.5	131				
Acenaphthylene	1,710	28.0	1,398	552.0	83.1	64	128				
Dibenzofuran	2,840	28.0	1,398	0	203	64.7	131				S
Fluorene	3,790	28.0	1,398	1,892	136	64.2	127				S
Phenanthrene	4,280	28.0	1,398	3,148	81.0	57	134				
Anthracene	1,690	28.0	1,398	387.5	93.0	68.2	123				
Di-n-butylphthalate	1,840	28.0	1,398	0	131	52.4	130				S

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>
Client ID: <b>BATCH</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344332</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	1,630	28.0	1,398	37.98	114	46.5	165				
Pyrene	1,720	28.0	1,398	88.17	117	31.4	151				
Benz (a) anthracene	1,710	28.0	1,398	20.85	121	43.9	151				
Chrysene	1,350	28.0	1,398	0	96.9	71.1	126				
bis (2-Ethylhexyl) phthalate	1,940	28.0	1,398	0	139	40.8	170				
Di-n-octyl phthalate	2,390	28.0	1,398	0	171	34.6	142				S
Benzo (b,j) fluoranthene	1,550	28.0	1,398	0	111	52.1	136				
Benzo (k) fluoranthene	1,470	28.0	1,398	14.30	104	64.5	135				
Benzo (a) pyrene	1,650	28.0	1,398	0	118	50.5	137				
Indeno (1,2,3-cd) pyrene	1,490	28.0	1,398	153.3	96.0	49.7	143				
Benzo (g,h,i) perylene	1,320	28.0	1,398	36.75	92.0	34	157				
Surr: 2,4,6-Tribromophenol	1,310		1,398		93.8	14	136				
Surr: 2-Fluorobiphenyl	325		698.8		46.6	42.6	139				
Surr: Nitrobenzene-d5	472		698.8		67.6	45.1	149				
Surr: Phenol-d6	839		1,398		60.0	48.2	143				
Surr: p-Terphenyl	865		698.8		124	33.3	149				

**NOTES:**

S - Outlying QC recoveries were associated with this sample. The method is in control as indicated by the LCS.  
 \* - Flagged value is not within established control limits.

Sample ID: <b>LCS-8718</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>
Client ID: <b>LCSS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344335</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	991	20.0	1,000	0	99.1	69.8	116				
1-Methylnaphthalene	1,000	20.0	1,000	0	100	73	120				
2,4,5-Trichlorophenol	1,650	100	1,000	0	165	55.7	126				S
2,4,6-Trichlorophenol	1,180	100	1,000	0	118	63.2	121				
2,4-Dichlorophenol	1,020	100	1,000	0	102	57.1	128				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>LCS-8718</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>
Client ID: <b>LCSS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344335</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	786	200	1,000	0	78.6	7.9	119				
2,4-Dinitrotoluene	1,220	100	1,000	0	122	21.9	136				
2,6-Dinitrotoluene	87.4	100	1,000	0	8.74	54.6	127				JS
2-Chloronaphthalene	1,010	20.0	1,000	0	101	67.1	123				
2-Chlorophenol	1,000	20.0	1,000	0	100	49.3	132				
2-Nitroaniline	992	100	1,000	0	99.2	43.9	135				
2-Nitrophenol	952	100	1,000	0	95.2	46.1	117				
3-Nitroaniline	1,020	100	1,000	0	102	50	150				
4,6-Dinitro-2-methylphenol	952	200	1,000	0	95.2	12.9	110				
4-Bromophenyl phenyl ether	1,020	20.0	1,000	0	102	61.8	128				
4-Chloro-3-methylphenol	1,080	100	1,000	0	108	49.4	138				
4-Chloroaniline	1,030	100	1,000	0	103	56.1	128				
4-Chlorophenyl phenyl ether	1,010	20.0	1,000	0	101	66.6	124				
4-Nitrophenol	590	100	1,000	0	59.0	46.8	136				
Aniline	1,010	20.0	1,000	0	101	50	150				
Bis(2-chloroethoxy)methane	1,000	20.0	1,000	0	100	67.5	124				
Bis(2-chloroethyl) ether	1,020	20.0	1,000	0	102	65	116				
Carbazole	1,030	20.0	1,000	0	103	64.5	135				
Hexachlorocyclopentadiene	996	100	1,000	0	99.6	36.7	128				
Hexachloroethane	1,010	20.0	1,000	0	101	67.8	117				
Isophorone	1,000	20.0	1,000	0	100	62.7	131				
Nitrobenzene	1,040	20.0	1,000	0	104	67.9	118				
Benzoic acid	1,230	200	1,000	0	123	33.9	79.2				S
Phenol	748	20.0	1,000	0	74.8	41.8	138				
Benzyl alcohol	1,110	20.0	1,000	0	111	42.4	131				
4-Methylphenol (p-cresol)	1,000	20.0	1,000	0	100	66.1	126				
Naphthalene	987	20.0	1,000	0	98.7	56.8	130				
2-Methylnaphthalene	1,000	20.0	1,000	0	100	68.3	121				
Acenaphthene	996	20.0	1,000	0	99.6	49.2	127				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>LCS-8718</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>
Client ID: <b>LCSS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344335</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethylphthalate	984	20.0	1,000	0	98.4	62.4	130				
Acenaphthylene	989	20.0	1,000	0	98.9	64.8	127				
Dibenzofuran	1,030	20.0	1,000	0	103	67.5	123				
Fluorene	1,000	20.0	1,000	0	100	64.8	126				
Phenanthrene	1,040	20.0	1,000	0	104	72.2	118				
Anthracene	1,020	20.0	1,000	0	102	68.9	122				
Di-n-butylphthalate	1,030	20.0	1,000	0	103	50.6	130				
Fluoranthene	1,000	20.0	1,000	0	100	66	129				
Pyrene	1,010	20.0	1,000	0	101	45.4	140				
Benz (a) anthracene	1,020	20.0	1,000	0	102	44	150				
Chrysene	1,040	20.0	1,000	0	104	71.3	127				
bis (2-Ethylhexyl) phthalate	1,010	20.0	1,000	0	101	40.1	127				
Di-n-octyl phthalate	1,000	20.0	1,000	0	100	37.2	135				
Benzo (b,j) fluoranthene	818	20.0	1,000	0	81.8	50.9	136				
Benzo (k) fluoranthene	1,080	20.0	1,000	0	108	65.2	134				
Benzo (a) pyrene	1,030	20.0	1,000	0	103	49.2	137				
Indeno (1,2,3-cd) pyrene	1,010	20.0	1,000	0	101	44.2	146				
Benzo (g,h,i) perylene	1,020	20.0	1,000	0	102	58.2	138				
Surr: 2,4,6-Tribromophenol	887		1,000		88.7	14	136				
Surr: 2-Fluorobiphenyl	508		500.0		102	42.6	139				
Surr: Nitrobenzene-d5	211		500.0		42.2	45.1	149				S
Surr: Phenol-d6	859		1,000		85.9	48.2	143				
Surr: p-Terphenyl	1,080		500.0		217	33.3	149				S

**NOTES:**

- S - Outlying spike recoveries observed for 2,4,5-Trichlorophenol and Benzoic Acid - Biased high. There were no detections in the samples. No further action is required.
- S - Outlying spike recovery observed for 2,6-Dinitrotoluene. Samples may be qualified with an \*.
- S - Outlying surrogate recoveries observed. All other laboratory and field samples recovered within range.

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>MB-8718</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344337</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
2,4,5-Trichlorophenol	ND	100									
2,4,6-Trichlorophenol	ND	100									
2,4-Dichlorophenol	ND	100									
2,4-Dinitrophenol	ND	200									
2,4-Dinitrotoluene	ND	100									
2,6-Dinitrotoluene	ND	100									*
2-Chloronaphthalene	ND	20.0									
2-Chlorophenol	ND	20.0									
2-Nitroaniline	ND	100									
2-Nitrophenol	ND	100									
3-Nitroaniline	ND	100									
4,6-Dinitro-2-methylphenol	ND	200									
4-Bromophenyl phenyl ether	ND	20.0									
4-Chloro-3-methylphenol	ND	100									
4-Chloroaniline	ND	100									
4-Chlorophenyl phenyl ether	ND	20.0									
4-Nitrophenol	ND	100									
Aniline	ND	20.0									
Bis(2-chloroethoxy)methane	ND	20.0									
Bis(2-chloroethyl) ether	ND	20.0									
Carbazole	ND	20.0									
Hexachlorocyclopentadiene	ND	100									
Hexachloroethane	ND	20.0									
Isophorone	ND	20.0									
Nitrobenzene	ND	20.0									
Benzoic acid	ND	200									
Phenol	ND	20.0									

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>MB-8718</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344337</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzyl alcohol	ND	20.0									
4-Methylphenol (p-cresol)	ND	20.0									
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Dimethylphthalate	ND	20.0									
Acenaphthylene	ND	20.0									
Dibenzofuran	ND	20.0									
Fluorene	ND	20.0									
Phenanthrene	ND	20.0									
Anthracene	ND	20.0									
Di-n-butylphthalate	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	20.0									
Benz (a) anthracene	ND	20.0									
Chrysene	ND	20.0									
bis (2-Ethylhexyl) phthalate	ND	20.0									
Di-n-octyl phthalate	ND	20.0									
Benzo (b,j) fluoranthene	ND	20.0									
Benzo (k) fluoranthene	ND	20.0									
Benzo (a) pyrene	ND	20.0									
Indeno (1,2,3-cd) pyrene	ND	20.0									
Benzo (g,h,i) perylene	ND	20.0									
3,3'-Dichlorobenzidine	ND	100									
Surr: 2,4,6-Tribromophenol	582		1,000		58.2	14	136				
Surr: 2-Fluorobiphenyl	501		500.0		100	42.6	139				
Surr: Nitrobenzene-d5	482		500.0		96.5	45.1	149				
Surr: Phenol-d6	806		1,000		80.6	48.2	143				
Surr: p-Terphenyl	526		500.0		105	33.3	149				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>MB-8718</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17208</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>344337</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

\* - Flagged value is not within established control limits.

<b>Qualifiers:</b> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
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**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>MB-8629</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335419</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenol	ND	2.00									
2-Chlorophenol	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
Benzyl alcohol	ND	1.00									
Bis(2-chloroethyl) ether	ND	2.00									
2-Methylphenol (o-cresol)	ND	1.00									
Hexachloroethane	ND	1.00									
N-Nitrosodi-n-propylamine	ND	1.00									
Nitrobenzene	ND	2.00									
Isophorone	ND	1.00									
4-Methylphenol (p-cresol)	ND	1.00									
2-Nitrophenol	ND	2.00									
2,4-Dimethylphenol	ND	1.00									
Bis(2-chloroethoxy)methane	ND	1.00									
2,4-Dichlorophenol	ND	2.00									
1,2,4-Trichlorobenzene	ND	1.00									
Naphthalene	ND	0.500									
4-Chloroaniline	ND	5.00									*
Hexachlorobutadiene	ND	1.00									
4-Chloro-3-methylphenol	ND	5.00									
2-Methylnaphthalene	ND	0.500									
1-Methylnaphthalene	ND	0.500									
Hexachlorocyclopentadiene	ND	1.00									
2,4,6-Trichlorophenol	ND	2.00									
2,4,5-Trichlorophenol	ND	2.00									
2-Chloronaphthalene	ND	1.00									
2-Nitroaniline	ND	5.00									

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



Date: 10/5/2014

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>MB-8629</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335419</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.500									
Dimethylphthalate	ND	1.00									
2,6-Dinitrotoluene	ND	1.00									
Acenaphthylene	ND	0.500									
2,4-Dinitrophenol	ND	2.00									
Dibenzofuran	ND	1.00									
2,4-Dinitrotoluene	ND	1.00									
4-Nitrophenol	ND	5.00									
Fluorene	ND	0.500									
4-Chlorophenyl phenyl ether	ND	1.00									
Diethylphthalate	ND	1.00									
4,6-Dinitro-2-methylphenol	ND	5.00									
4-Bromophenyl phenyl ether	ND	1.00									
Hexachlorobenzene	ND	1.00									
Pentachlorophenol	ND	2.00									
Phenanthrene	ND	0.500									
Anthracene	ND	0.500									
Carbazole	ND	5.00									
Di-n-butyl phthalate	ND	1.00									
Fluoranthene	ND	0.500									
Pyrene	ND	0.500									
Benzyl Butylphthalate	ND	1.00									
bis(2-Ethylhexyl)adipate	ND	1.00									
Benz[a]anthracene	ND	0.500									
Chrysene	ND	0.500									
Bis(2-ethylhexyl) phthalate	ND	1.00									
Di-n-octyl phthalate	ND	1.00									
Benzo (b) fluoranthene	ND	0.500									
Benzo (k) fluoranthene	ND	0.500									

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>MB-8629</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335419</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo[a]pyrene	ND	0.500									
Indeno (1,2,3-cd) pyrene	ND	0.500									
Dibenzo (a,h) anthracene	ND	0.500									
Benzo (g,h,i) perylene	ND	0.500									
Surr: 2,4,6-Tribromophenol	2.22		4.000		55.5	18	139				
Surr: 2-Fluorobiphenyl	1.37		2.000		68.6	23.3	118				
Surr: Nitrobenzene-d5	1.86		2.000		93.1	21.9	139				
Surr: Phenol-d6	1.98		4.000		49.5	10	103				
Surr: p-Terphenyl	1.52		2.000		76.0	41.3	140				

**NOTES:**

\* - Flagged value is not within established control limits.

Sample ID: <b>LCS-8629</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335420</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenol	1.59	2.00	4.000	0	39.6	16.3	115				
2-Chlorophenol	2.19	1.00	4.000	0	54.8	25	112				
1,3-Dichlorobenzene	2.20	1.00	4.000	0	54.9	25	108				
1,4-Dichlorobenzene	2.23	1.00	4.000	0	55.8	25	110				
1,2-Dichlorobenzene	2.25	1.00	4.000	0	56.3	25	109				
Benzyl alcohol	1.98	1.00	4.000	0	49.4	20	96.5				
Bis(2-chloroethyl) ether	1.96	2.00	4.000	0	49.0	25	111				
2-Methylphenol (o-cresol)	2.08	1.00	4.000	0	52.1	25	101				
Hexachloroethane	1.93	1.00	4.000	0	48.3	25	109				
N-Nitrosodi-n-propylamine	1.95	1.00	4.000	0	48.6	25	122				
Nitrobenzene	2.68	2.00	4.000	0	66.9	25	110				
Isophorone	1.96	1.00	4.000	0	48.9	25	126				
4-Methylphenol (p-cresol)	2.03	1.00	4.000	0	50.8	25	113				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>LCS-8629</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335420</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Nitrophenol	2.12	2.00	4.000	0	52.9	25	126				
2,4-Dimethylphenol	1.65	1.00	4.000	0	41.3	25	124				
Bis(2-chloroethoxy)methane	2.09	1.00	4.000	0	52.1	25	121				
2,4-Dichlorophenol	2.41	2.00	4.000	0	60.3	29.1	110				
1,2,4-Trichlorobenzene	2.38	1.00	4.000	0	59.6	25	113				
Naphthalene	2.27	0.500	4.000	0	56.8	25	115				
4-Chloroaniline	0.573	5.00	4.000	0	14.3	25	136				S
Hexachlorobutadiene	2.46	1.00	4.000	0	61.5	25	111				
4-Chloro-3-methylphenol	2.22	5.00	4.000	0	55.5	32.3	122				
2-Methylnaphthalene	2.51	0.500	4.000	0	62.8	25	119				
1-Methylnaphthalene	2.53	0.500	4.000	0	63.3	25	117				
Hexachlorocyclopentadiene	2.70	1.00	4.000	0	67.5	25	125				
2,4,6-Trichlorophenol	2.43	2.00	4.000	0	60.8	25	133				
2,4,5-Trichlorophenol	1.66	2.00	4.000	0	41.6	25	125				
2-Chloronaphthalene	2.49	1.00	4.000	0	62.2	25	121				
2-Nitroaniline	2.08	5.00	4.000	0	52.0	25	121				
Acenaphthene	2.60	0.500	4.000	0	64.9	25	120				
Dimethylphthalate	2.89	1.00	4.000	0	72.2	25	133				
2,6-Dinitrotoluene	2.67	1.00	4.000	0	66.7	25	131				
Acenaphthylene	2.37	0.500	4.000	0	59.3	25	128				
2,4-Dinitrophenol	1.37	2.00	4.000	0	34.1	12.9	110				
Dibenzofuran	2.75	1.00	4.000	0	68.7	25	121				
2,4-Dinitrotoluene	2.59	1.00	4.000	0	64.7	25	132				
4-Nitrophenol	1.98	5.00	4.000	0	49.6	20	106				
Fluorene	2.74	0.500	4.000	0	68.4	25	127				
4-Chlorophenyl phenyl ether	2.88	1.00	4.000	0	71.9	25	124				
Diethylphthalate	2.89	1.00	4.000	0	72.2	31.3	142				
4,6-Dinitro-2-methylphenol	2.30	5.00	4.000	0	57.4	16.1	109				
4-Bromophenyl phenyl ether	2.94	1.00	4.000	0	73.4	25	130				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>LCS-8629</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>
Client ID: <b>LCSW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335420</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	3.13	1.00	4.000	0	78.2	29	120				
Pentachlorophenol	2.11	2.00	4.000	0	52.8	20	137				
Phenanthrene	2.97	0.500	4.000	0	74.1	34	125				
Anthracene	2.70	0.500	4.000	0	67.5	27.7	134				
Carbazole	2.96	5.00	4.000	0	74.0	27.9	150				
Di-n-butyl phthalate	2.86	1.00	4.000	0	71.5	62	158				
Fluoranthene	3.04	0.500	4.000	0	76.0	34.8	143				
Pyrene	3.01	0.500	4.000	0	75.2	35.5	140				
Benzyl Butylphthalate	2.89	1.00	4.000	0	72.2	51.4	144				
bis(2-Ethylhexyl)adipate	2.76	1.00	4.000	0	69.1	51.3	144				
Benzo[a]anthracene	2.91	0.500	4.000	0	72.8	27.2	132				
Chrysene	2.90	0.500	4.000	0	72.5	39.5	123				
Bis(2-ethylhexyl) phthalate	2.57	1.00	4.000	0	64.3	44.7	180				
Di-n-octyl phthalate	2.40	1.00	4.000	0	60.0	52.8	164				
Benzo (b) fluoranthene	2.70	0.500	4.000	0	67.5	37.8	123				
Benzo (k) fluoranthene	2.87	0.500	4.000	0	71.7	25	144				
Benzo[a]pyrene	2.37	0.500	4.000	0	59.3	24.9	125				
Indeno (1,2,3-cd) pyrene	2.99	0.500	4.000	0	74.8	25	127				
Dibenzo (a,h) anthracene	3.12	0.500	4.000	0	78.0	25	132				
Benzo (g,h,i) perylene	3.05	0.500	4.000	0	76.2	25	133				
Surr: 2,4,6-Tribromophenol	1.35		4.000		33.8	18	139				
Surr: 2-Fluorobiphenyl	1.36		2.000		67.9	23.3	118				
Surr: Nitrobenzene-d5	1.98		2.000		99.1	21.9	139				
Surr: Phenol-d6	1.07		4.000		26.7	10	103				
Surr: p-Terphenyl	1.58		2.000		78.8	41.3	140				

**NOTES:**

S - Outlying QC recoveries were associated with this sample (4-Chloroaniline; low bias). Samples may be qualified with an \*.

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>1409034-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>
Client ID: <b>CS-SP-01-20140903-W</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335483</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2.32	2.00	4.000	1.360	24.0	10	78.2				
2-Chlorophenol	1.85	1.00	4.000	0	46.3	25	106				
1,3-Dichlorobenzene	1.04	1.00	4.000	0	25.9	25.5	103				
1,4-Dichlorobenzene	1.08	1.00	4.000	0	27.0	25.6	104				
1,2-Dichlorobenzene	1.20	1.00	4.000	0	30.1	26.1	105				
Benzyl alcohol	2.31	1.00	4.000	0	57.8	20	96.8				
Bis(2-chloroethyl) ether	1.25	2.00	4.000	0	31.3	25	110				
2-Methylphenol (o-cresol)	2.01	1.00	4.000	0.2787	43.3	25.1	95.8				
Hexachloroethane	0.991	1.00	4.000	0	24.8	25	106				S
N-Nitrosodi-n-propylamine	1.82	1.00	4.000	0	45.6	25.5	116				
Nitrobenzene	1.64	2.00	4.000	0	40.9	30.5	105				
Isophorone	1.61	1.00	4.000	0	40.3	25	121				
4-Methylphenol (p-cresol)	2.54	1.00	4.000	3.590	-26.2	25	106				S
2-Nitrophenol	1.84	2.00	4.000	0	46.0	25	123				
2,4-Dimethylphenol	2.32	1.00	4.000	0	57.9	25	123				
Bis(2-chloroethoxy)methane	1.86	1.00	4.000	0	46.4	25.4	116				
2,4-Dichlorophenol	2.50	2.00	4.000	0	62.4	34.3	110				
1,2,4-Trichlorobenzene	1.85	1.00	4.000	0	46.1	25	110				
Naphthalene	1.87	0.500	4.000	0	46.8	25	131				
4-Chloroaniline	ND	5.00	4.000	0	0	25	130				S*
Hexachlorobutadiene	1.69	1.00	4.000	0	42.1	25	105				
4-Chloro-3-methylphenol	2.47	5.00	4.000	0	61.7	36.3	120				
2-Methylnaphthalene	2.22	0.500	4.000	0	55.5	25	119				
1-Methylnaphthalene	2.33	0.500	4.000	0	58.2	25.3	117				
Hexachlorocyclopentadiene	0.806	1.00	4.000	0	20.2	25	114				S
2,4,6-Trichlorophenol	2.46	2.00	4.000	0	61.6	25	131				
2,4,5-Trichlorophenol	3.19	2.00	4.000	0	79.6	25	122				
2-Chloronaphthalene	2.30	1.00	4.000	0	57.6	27.3	115				
2-Nitroaniline	2.38	5.00	4.000	0	59.6	27.9	114				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>1409034-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>CS-SP-01-20140903-W</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335483</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	2.38	0.500	4.000	0	59.6	25	136				
Dimethylphthalate	2.64	1.00	4.000	0	66.1	31	128				
2,6-Dinitrotoluene	2.82	1.00	4.000	0	70.5	26.9	125				
Acenaphthylene	2.29	0.500	4.000	0	57.2	26.8	122				
2,4-Dinitrophenol	1.21	2.00	4.000	0	30.3	25	148				
Dibenzofuran	2.51	1.00	4.000	0	62.8	27.8	116				
2,4-Dinitrotoluene	2.63	1.00	4.000	0	65.8	25	123				
4-Nitrophenol	2.33	5.00	4.000	0	58.4	20	109				
Fluorene	2.60	0.500	4.000	0	65.0	25	131				
4-Chlorophenyl phenyl ether	2.67	1.00	4.000	0	66.7	28.9	119				
Diethylphthalate	3.06	1.00	4.000	0.6535	60.1	36.6	136				
4,6-Dinitro-2-methylphenol	1.46	5.00	4.000	0	36.4	25	136				
4-Bromophenyl phenyl ether	2.93	1.00	4.000	0	73.2	30.2	124				
Hexachlorobenzene	2.87	1.00	4.000	0	71.7	34.6	114				
Pentachlorophenol	3.53	2.00	4.000	0	88.2	25	145				
Phenanthrene	2.41	0.500	4.000	0	60.3	26	139				
Anthracene	2.18	0.500	4.000	0	54.5	34.5	129				
Carbazole	2.60	5.00	4.000	0	65.1	36.7	143				
Di-n-butyl phthalate	2.66	1.00	4.000	1.133	38.2	39.7	149				S
Fluoranthene	2.73	0.500	4.000	0	68.3	39.3	141				
Pyrene	2.77	0.500	4.000	0	69.2	40.9	137				
Benzyl Butylphthalate	2.98	1.00	4.000	0	74.4	50.5	139				
bis(2-Ethylhexyl)adipate	2.93	1.00	4.000	0	73.3	36.6	145				
Benz[a]anthracene	2.56	0.500	4.000	0	64.1	34.2	124				
Chrysene	2.36	0.500	4.000	0	59.1	44.6	116				
Bis(2-ethylhexyl) phthalate	5.07	1.00	4.000	2.296	69.4	39.9	143				
Di-n-octyl phthalate	2.01	1.00	4.000	0	50.2	37.5	163				
Benzo (b) fluoranthene	1.65	0.500	4.000	0	41.3	40.7	116				
Benzo (k) fluoranthene	1.67	0.500	4.000	0	41.7	25.5	135				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>1409034-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>CS-SP-01-20140903-W</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>335483</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzo[a]pyrene	1.44	0.500	4.000	0	35.9	25	120				
Indeno (1,2,3-cd) pyrene	1.20	0.500	4.000	0	30.1	25	121				
Dibenzo (a,h) anthracene	1.21	0.500	4.000	0	30.2	25	125				
Benzo (g,h,i) perylene	1.02	0.500	4.000	0.02914	24.8	25	124				S
Surr: 2,4,6-Tribromophenol	3.10		4.000		77.6	18	139				
Surr: 2-Fluorobiphenyl	1.35		2.000		67.6	23.3	118				
Surr: Nitrobenzene-d5	1.69		2.000		84.7	21.9	139				
Surr: Phenol-d6	1.60		4.000		40.1	10	103				
Surr: p-Terphenyl	1.60		2.000		80.2	41.3	140				

**NOTES:**

S - Outlying QC recoveries were associated with this sample; indicating a possible matrix effect. The method is in control as indicated by the LCS.

\* - Flagged value is not within established control limits.

Sample ID: <b>MB-8629</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>17089</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>342399</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Chloropropane	ND	1.00									
4-Nitroaniline	ND	1.00									
n-Nitrosodimethylamine	ND	1.00									
Surr: 2-Fluorobiphenyl	1.17		2.000		58.4	23.3	118				
Surr: p-Terphenyl	1.51		2.000		75.3	41.3	140				

Sample ID: <b>LCS-8629</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>17089</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>342400</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Chloropropane	1.36	1.00	2.000	0	68.1	20	150				
4-Nitroaniline	0.620	1.00	2.000	0	31.0	20	150				J

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>LCS-8629</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>17089</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>342400</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

n-Nitrosodimethylamine	1.29	1.00	2.000	0	64.6	20	150				
Surr: 2-Fluorobiphenyl	1.23		2.000		61.4	23.3	118				
Surr: p-Terphenyl	1.54		2.000		76.9	41.3	140				

Sample ID: <b>1409034-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>17089</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/24/2014</b>	SeqNo: <b>342402</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1-Chloropropane	ND	1.00						0	0	50	
4-Nitroaniline	ND	1.00						0	0	50	
n-Nitrosodimethylamine	ND	1.00						0	0	50	
Surr: 2-Fluorobiphenyl	1.46		2.000		72.8	23.3	118		0		
Surr: p-Terphenyl	1.58		2.000		78.9	41.3	140		0		

Sample ID: <b>1409034-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>343439</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenol	0.942	2.00						1.360	36.3	50	J
2-Chlorophenol	ND	1.00						0	0	50	
1,3-Dichlorobenzene	ND	1.00						0	0	50	
1,4-Dichlorobenzene	ND	1.00						0	0	50	
1,2-Dichlorobenzene	ND	1.00						0	0	50	
Benzyl alcohol	ND	1.00						0	0	50	
Bis(2-chloroethyl) ether	ND	2.00						0	0	50	
2-Methylphenol (o-cresol)	ND	1.00						0.2787	200	50	
Hexachloroethane	ND	1.00						0	0	50	
N-Nitrosodi-n-propylamine	ND	1.00						0	0	50	

**Qualifiers:** B Analyte detected in the associated Method Blank  
D Dilution was required  
E Value above quantitation range  
H Holding times for preparation or analysis exceeded  
J Analyte detected below quantitation limits  
ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits  
RL Reporting Limit  
S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>1409034-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8629</b>		Analysis Date: <b>9/10/2014</b>	SeqNo: <b>343439</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrobenzene	0.154	2.00						0	200	50	J
Isophorone	0.165	1.00						0	200	50	J
4-Methylphenol (p-cresol)	2.73	1.00						3.590	27.2	50	
2-Nitrophenol	ND	2.00						0	0	50	
2,4-Dimethylphenol	0.118	1.00						0	200	50	J
Bis(2-chloroethoxy)methane	ND	1.00						0	0	50	
2,4-Dichlorophenol	ND	2.00						0	0	50	
1,2,4-Trichlorobenzene	0.0383	1.00						0	200	50	J
Naphthalene	ND	0.500						0	0	50	
4-Chloroaniline	ND	5.00						0	0	50	*
Hexachlorobutadiene	ND	1.00						0	0	50	
4-Chloro-3-methylphenol	ND	5.00						0	0	50	
2-Methylnaphthalene	ND	0.500						0	0	50	
1-Methylnaphthalene	ND	0.500						0	0	50	
Hexachlorocyclopentadiene	ND	1.00						0	0	50	
2,4,6-Trichlorophenol	ND	2.00						0	0	50	
2,4,5-Trichlorophenol	ND	2.00						0	0	50	
2-Chloronaphthalene	ND	1.00						0	0	50	
2-Nitroaniline	ND	5.00						0	0	50	
Acenaphthene	ND	0.500						0	0	50	
Dimethylphthalate	ND	1.00						0	0	50	
2,6-Dinitrotoluene	ND	1.00						0	0	50	
Acenaphthylene	ND	0.500						0	0	50	
2,4-Dinitrophenol	ND	2.00						0	0	50	
Dibenzofuran	ND	1.00						0	0	50	
2,4-Dinitrotoluene	ND	1.00						0	0	50	
4-Nitrophenol	ND	5.00						0	0	50	
Fluorene	ND	0.500						0	0	50	
4-Chlorophenyl phenyl ether	ND	1.00						0	0	50	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits  
D Dilution was required  
J Analyte detected below quantitation limits  
RL Reporting Limit  
E Value above quantitation range  
ND Not detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: 1409034-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 9/4/2014	RunNo: 16691							
Client ID: CS-TS-01-20140903-W	Batch ID: 8629		Analysis Date: 9/10/2014	SeqNo: 343439							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	1.00						0.6535	200	50	
4,6-Dinitro-2-methylphenol	ND	5.00						0	0	50	
4-Bromophenyl phenyl ether	ND	1.00						0	0	50	
Hexachlorobenzene	ND	1.00						0	0	50	
Pentachlorophenol	ND	2.00						0	0	50	
Phenanthrene	ND	0.500						0	0	50	
Anthracene	ND	0.500						0	0	50	
Carbazole	ND	5.00						0	0	50	
Di-n-butyl phthalate	0.709	1.00						1.133	46.0	50	J
Fluoranthene	ND	0.500						0	0	50	
Pyrene	ND	0.500						0	0	50	
Benzyl Butylphthalate	0.519	1.00						0	200	50	J
bis(2-Ethylhexyl)adipate	ND	1.00						0	0	50	
Benz[a]anthracene	ND	0.500						0	0	50	
Chrysene	ND	0.500						0	0	50	
Bis(2-ethylhexyl) phthalate	1.55	1.00						2.296	38.9	50	
Di-n-octyl phthalate	ND	1.00						0	0	50	
Benzo (b) fluoranthene	ND	0.500						0	0	50	
Benzo (k) fluoranthene	ND	0.500						0	0	50	
Benzo[a]pyrene	ND	0.500						0	0	50	
Indeno (1,2,3-cd) pyrene	ND	0.500						0	0	50	
Dibenzo (a,h) anthracene	ND	0.500						0	0	50	
Benzo (g,h,i) perylene	ND	0.500						0.02914	200	50	
Surr: 2,4,6-Tribromophenol	4.04		4.000		101	18	139		0		
Surr: 2-Fluorobiphenyl	1.58		2.000		79.1	23.3	118		0		
Surr: Nitrobenzene-d5	2.35		2.000		117	21.9	139		0		
Surr: Phenol-d6	2.13		4.000		53.1	10	103		0		
Surr: p-Terphenyl	1.91		2.000		95.3	41.3	140		0		

**Qualifiers:** B Analyte detected in the associated Method Blank  
D Dilution was required  
E Value above quantitation range  
H Holding times for preparation or analysis exceeded  
J Analyte detected below quantitation limits  
ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits  
RL Reporting Limit  
S Spike recovery outside accepted recovery limits



Date: 10/5/2014

Work Order: 1409034  
CLIENT: CleanScapes, Inc.  
Project: CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by EPA Method 8270**

Sample ID: <b>1409034-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/4/2014</b>	RunNo: <b>16691</b>							
Client ID: <b>CS-TS-01-20140903-W</b>	Batch ID: <b>8629</b>	Analysis Date: <b>9/10/2014</b>	SeqNo: <b>343439</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

\* - Flagged value is not within established control limits.

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>MB-8718</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>
Client ID: <b>MBLKS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343952</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	ND	100									
N-Nitrosodiphenylamine	ND	28.0									
1,4-Dichlorobenzene	ND	100									
1,2-Dichlorobenzene	ND	35.0									
2-Methylphenol (o-cresol)	ND	63.0									
2,4-Dimethylphenol	ND	29.0									
1,2,4-Trichlorobenzene	ND	31.0									
Hexachlorobutadiene	ND	11.0									
Dimethylphthalate	ND	71.0									
Hexachlorobenzene	ND	22.0									
Pentachlorophenol	ND	100									
Butyl Benzylphthalate	ND	63.0									
Dibenz (a,h) anthracene	ND	80.0									
Surr: 2,4,6-Tribromophenol	582		2,000		29.1	14	136				
Surr: 2-Fluorobiphenyl	1,000		1,000		100	42.6	139				
Surr: Nitrobenzene-d5	952		1,000		95.2	45.1	149				
Surr: Phenol-d6	996		2,000		49.8	48.2	143				
Surr: p-Terphenyl	1,050		1,000		105	33.3	149				

Sample ID: <b>LCS-8718</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>
Client ID: <b>LCSS</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343953</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	1,000	33.0	1,000	0	100	39.8	135				
1,4-Dichlorobenzene	986	6.70	1,000	0	98.6	51.3	133				
1,2-Dichlorobenzene	981	6.70	1,000	0	98.1	54.2	129				
2-Methylphenol (o-cresol)	998	6.70	1,000	0	99.8	67	126				
2,4-Dimethylphenol	1,100	20.0	1,000	0	110	57.8	121				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>LCS-8718</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>				Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>8718</b>					Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343953</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	978	6.70	1,000	0	97.8	36.2	140				
Hexachlorobutadiene	1,000	6.70	1,000	0	100	55.9	131				
Dimethylphthalate	984	6.70	1,000	0	98.4	62.4	130				
Hexachlorobenzene	1,000	6.70	1,000	0	100	66.8	124				
Pentachlorophenol	857	33.0	1,000	0	85.7	21.4	135				
Butyl Benzylphthalate	1,010	6.70	1,000	0	101	30.4	138				
Dibenz (a,h) anthracene	981	6.70	1,000	0	98.1	37.5	152				
Surr: 2,4,6-Tribromophenol	887		1,000		88.7	14	136				
Surr: 2-Fluorobiphenyl	1,020		1,000		102	42.6	139				
Surr: Nitrobenzene-d5	984		1,000		98.4	45.1	149				
Surr: Phenol-d6	848		1,000		84.8	48.2	143				
Surr: p-Terphenyl	1,080		1,000		108	33.3	149				

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>				Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>				
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8718</b>					Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343955</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	ND	4,180						0	0	50	D
N-Nitrosodiphenylamine	ND	1,170						0	0	50	D
1,4-Dichlorobenzene	ND	4,180						0	0	50	D
1,2-Dichlorobenzene	ND	1,460						0	0	50	D
2-Methylphenol (o-cresol)	ND	2,630						0	0	50	D
2,4-Dimethylphenol	ND	1,210						0	0	50	D
1,2,4-Trichlorobenzene	ND	1,290						0	0	50	D
Hexachlorobutadiene	ND	459						0	0	50	D
Dimethylphthalate	ND	2,970						1,548	200	50	D
Hexachlorobenzene	ND	919						0	0	50	D
Pentachlorophenol	ND	4,180						0	0	50	D

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409034-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>							
Client ID: <b>CS-CB-01-20140903-S</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343955</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Butyl Benzylphthalate	11,100	2,630						7,604	37.0	50	DR
Dibenz (a,h) anthracene	3,390	3,340						3,796	11.3	50	D
Surr: 2,4,6-Tribromophenol	4,830		8,612		56.1	14	136		0		D
Surr: 2-Fluorobiphenyl	3,030		4,306		70.3	42.6	139		0		D
Surr: Nitrobenzene-d5	2,680		4,306		62.3	45.1	149		0		D
Surr: Phenol-d6	3,300		8,612		38.3	48.2	143		0		DS
Surr: p-Terphenyl	4,160		4,306		96.6	33.3	149		0		D

**NOTES:**

S - Outlying surrogate recovery observed. A duplicate analysis was performed with similar results indicating a matrix effect.

R - High RPD due to suspected sample inhomogeneity/matrix. The method is in control as indicated by the Laboratory Control Sample (LCS).

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343957</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

N-Nitrosodi-n-propylamine	1,540	140	1,406	370.5	82.9	26.4	151				
1,4-Dichlorobenzene	1,040	140	1,406	0	74.3	44.5	134				
1,2-Dichlorobenzene	1,020	48.9	1,406	0	72.7	35	131				
2-Methylphenol (o-cresol)	1,050	88.0	1,406	71.35	69.8	70.9	113				S
2,4-Dimethylphenol	1,000	40.5	1,406	0	71.4	46	158				
1,2,4-Trichlorobenzene	1,130	43.3	1,406	43.03	77.5	29.2	140				
Hexachlorobutadiene	1,200	15.4	1,406	0	85.6	38.2	138				
Dimethylphthalate	1,350	99.2	1,406	138.0	86.4	61.5	131				
Hexachlorobenzene	1,360	30.7	1,406	0	96.6	66.5	123				
Pentachlorophenol	1,320	140	1,406	140.4	83.6	28.2	156				
Butyl Benzylphthalate	2,290	88.0	1,406	189.7	149	30.4	138				S
Dibenz (a,h) anthracene	1,540	112	1,406	107.6	102	40.7	152				
Surr: 2,4,6-Tribromophenol	1,280		2,812		45.4	14	136				
Surr: 2-Fluorobiphenyl	670		1,406		47.7	42.6	139				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409034  
**CLIENT:** CleanScapes, Inc.  
**Project:** CleanScapes Ops Center

**QC SUMMARY REPORT**  
**Semi-Volatile Organic Compounds by SW8270 (SIM)**

Sample ID: <b>1409140-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>9/15/2014</b>	RunNo: <b>17186</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8718</b>		Analysis Date: <b>9/16/2014</b>	SeqNo: <b>343957</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Nitrobenzene-d5	925		1,406		65.8	45.1	149				
Surr: Phenol-d6	500		2,812		17.8	48.2	143				S
Surr: p-Terphenyl	1,730		1,406		123	33.3	149				

**NOTES:**

S - Outlying QC recoveries were associated with this sample. The method is in control as indicated by the LCS.

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

Client Name: **CLEAN**

 Work Order Number: **1409034**

Logged by:

 Date Received: **9/4/2014 11:02:00 AM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered?

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody seals intact on shipping container/cooler? Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all coolers received at a temperature of  $>0^{\circ}\text{C}$  to  $10.0^{\circ}\text{C}$ ? Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is the headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Rush  
 Short Hold

**Chain of Custody Record**

1409034

Client Contact: **Recology/CleanScapes**      Client Contact: **Soud Earth**      Date: **9/4/14**      Chain of Custody Number: **24943**  
Address: **Call Dan Lipinski**      Telephone Number (Area Code)/Fax Number: **206-660-6845**      Lab Number: **2451**  
City: **Leidos**      State: **WA**      Zip Code: **98148**      Lab Contact: **d.lipinski@soudearth.com**      Page: **1** of **1**

Project Name and Location (State) Contract/Purchase Order/Quote No. (Call Dan Lipinski: 206-660-6845)	Sampler (Leidos) Billing Contact	Matrix	Containers & Preservatives				Leakage	H2SO4	HNO3	HCl	HNO2	ZnAc/NaOH	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			Agarous	Seal	Seal	Seal								
CS-TS-01-20140903-W	9/3/14	1200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CS-SP-01-20140903-W	↓	1415	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CS-CB-01-20140903-S	↓	1300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Cooler:  Yes  No      Cooler Temp: \_\_\_\_\_      Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Deplete By Lab  Archive For \_\_\_\_\_ Months

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

OC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: **CHANCELLOR/C NANKERBOW**      Date: **9/3/2014**      Time: **1812**      Sign/Print: **Dan Lipinski**

2. Relinquished By: **Dan Lipinski**      Date: **9/4/14**      Time: **1102**      Sign/Print: **MURKIN C. RIDENOUR**

3. Relinquished By: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_      Sign/Print: \_\_\_\_\_

Comments: \_\_\_\_\_

October 03, 2014

**Vista Project I.D.: 1400668**

Mr. Daniel Lipinski  
SoundEarth Strategies, Inc.  
2811 Fairview Avenue East, Suite 2000  
Seattle, WA 98102

Dear Mr. Lipinski,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on September 13, 2014. This sample set was analyzed on a standard turn-around time, under your Project Name 'NPDES Sampling Support'. The work was authorized under your Purchase Order No. 0890-001.

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](mailto: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. 1400668**

**Case Narrative**

**Sample Condition on Receipt:**

Two aqueous samples and one sediment sample were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**EPA Method 1613**

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 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. PCB-11 was detected at 12.8 pg/L in the aqueous Method Blank, which is above the lower calibration limit. No other analytes were detected above the sample quantitation limit in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

Sample "CS-CB-01-20140903-S" contained high levels of interferences, and required re-extraction using a smaller sample mass. The data are reported from a 1:100 dilution of the extract. An interference affected the ion ratio of the internal standard 13C-PCB-155, and it is outside the method limits. All other labeled standards for the QC and field samples met the method acceptance criteria.

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
1400668-01	CS-TS-01-20140903-W	03-Sep-14 12:00	13-Sep-14 09:58	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1400668-02	CS-SP-01-20140903-W	03-Sep-14 14:15	13-Sep-14 09:58	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1400668-03	CS-CB-01-20140903-S	03-Sep-14 13:00	13-Sep-14 09:58	Amber Glass, 250mL

## **ANALYTICAL RESULTS**

**Sample ID: Method Blank** **EPA Method 1613B**

Matrix: Aqueous	QC Batch: B4I0066	Lab Sample: B4I0066-BLK1
Sample Size: 1.00 L	Date Extracted: 19-Sep-2014 8:01	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

<b>TOTALS</b>		
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: CS-TS-01-20140903-W** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: SoundEarth Strategies, Inc.	Matrix: Aqueous	Lab Sample: 1400668-01      Date Received: 13-Sep-2014 9:58
Project: NPDES Sampling Support	Sample Size: 1.00 L	QC Batch: B4I0066      Date Extracted: 19-Sep-2014 8:01
Date Collected: 03-Sep-2014 12:00		Date Analyzed: 22-Sep-14 19:11      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	1.14		0.943		IS 13C-2,3,7,8-TCDD	72.5	25 - 164	
1,2,3,7,8-PeCDD	ND	25.0	0.762		4.51		13C-1,2,3,7,8-PeCDD	80.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	25.0	1.87		2.21		13C-1,2,3,4,7,8-HxCDD	77.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	25.0	1.88		1.93		13C-1,2,3,6,7,8-HxCDD	79.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	25.0	1.93		2.02		13C-1,2,3,7,8,9-HxCDD	77.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	25.0		2.83	2.98		13C-1,2,3,4,6,7,8-HpCDD	72.0	23 - 140	
OCDD	16.2	50.0			3.57	J	13C-OCDD	80.0	17 - 157	
2,3,7,8-TCDF	ND	5.00	0.865		0.984		13C-2,3,7,8-TCDF	75.0	24 - 169	
1,2,3,7,8-PeCDF	ND	25.0	0.580		2.50		13C-1,2,3,7,8-PeCDF	79.5	24 - 185	
2,3,4,7,8-PeCDF	ND	25.0	0.604		1.73		13C-2,3,4,7,8-PeCDF	77.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	25.0	0.716		1.36		13C-1,2,3,4,7,8-HxCDF	83.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	25.0	0.772		1.56		13C-1,2,3,6,7,8-HxCDF	69.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	25.0	0.866		2.05		13C-2,3,4,6,7,8-HxCDF	72.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	25.0	1.18		1.34		13C-1,2,3,7,8,9-HxCDF	73.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	25.0	1.62		1.46		13C-1,2,3,4,6,7,8-HpCDF	71.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	25.0	0.549		1.75		13C-1,2,3,4,7,8,9-HpCDF	75.6	26 - 138	
OCDF	ND	50.0	1.92		2.98		13C-OCDF	69.7	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	87.2	35 - 197	

							<b>Toxic Equivalent Quotient (TEQ) Data</b>			
							TEQMinWHO2005Dioxin	0.00486		

<b>TOTALS</b>										
Total TCDD	ND		1.14							
Total PeCDD	ND		2.04							
Total HxCDD	ND		5.13							
Total HpCDD	4.35			7.18						
Total TCDF	ND		0.865							
Total PeCDF	ND		1.01							
Total HxCDF	ND		1.63							
Total HpCDF	ND		2.17							

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: CS-SP-01-20140903-W** **EPA Method 1613B**

<b>Client Data</b> Name: SoundEarth Strategies, Inc. Project: NPDES Sampling Support Date Collected: 03-Sep-2014 14:15	<b>Sample Data</b> Matrix: Aqueous Sample Size: 0.997 L	<b>Laboratory Data</b> Lab Sample: 1400668-02      Date Received: 13-Sep-2014 9:58 QC Batch: B4I0066      Date Extracted: 19-Sep-2014 8:01 Date Analyzed: 22-Sep-14 20:00      Column: ZB-5MS      Analyst: MAS
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Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	5.01	0.563		0.943		IS 13C-2,3,7,8-TCDD	73.1	25 - 164	
1,2,3,7,8-PeCDD	ND	25.1	1.17		4.51		13C-1,2,3,7,8-PeCDD	84.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	25.1	1.93		2.21		13C-1,2,3,4,7,8-HxCDD	85.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	25.1	2.05		1.93		13C-1,2,3,6,7,8-HxCDD	83.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	25.1	2.01		2.02		13C-1,2,3,7,8,9-HxCDD	84.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	25.1		13.0	2.98		13C-1,2,3,4,6,7,8-HpCDD	76.1	23 - 140	
OCDD	92.7	50.1			3.57		13C-OCDD	88.1	17 - 157	
2,3,7,8-TCDF	ND	5.01	1.97		0.984		13C-2,3,7,8-TCDF	79.3	24 - 169	
1,2,3,7,8-PeCDF	ND	25.1	0.734		2.50		13C-1,2,3,7,8-PeCDF	85.5	24 - 185	
2,3,4,7,8-PeCDF	ND	25.1	0.755		1.73		13C-2,3,4,7,8-PeCDF	85.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	25.1	0.756		1.36		13C-1,2,3,4,7,8-HxCDF	87.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	25.1	0.829		1.56		13C-1,2,3,6,7,8-HxCDF	72.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	25.1	1.40		2.05		13C-2,3,4,6,7,8-HxCDF	76.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	25.1	1.25		1.34		13C-1,2,3,7,8,9-HxCDF	79.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.08	25.1			1.46	J	13C-1,2,3,4,6,7,8-HpCDF	77.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	25.1	0.970		1.75		13C-1,2,3,4,7,8,9-HpCDF	78.8	26 - 138	
OCDF	ND	50.1		4.55	2.98		13C-OCDF	76.3	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	84.1	35 - 197	

<b>Toxic Equivalent Quotient (TEQ) Data</b>											
								TEQMinWHO2005Dioxin	0.0586		

<b>TOTALS</b>										
Total TCDD	ND		0.563							
Total PeCDD	ND		1.17							
Total HxCDD	ND			3.59						
Total HpCDD	19.7			32.7						
Total TCDF	ND		1.97							
Total PeCDF	1.27									
Total HxCDF	2.87									
Total HpCDF	5.70									

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	QC Batch: B4I0053	Lab Sample: B4I0053-BLK1
Sample Size: 10.0 g	Date Extracted: 15-Sep-2014 15:17	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	

<b>Toxic Equivalent Quotient (TEQ) Data</b>	
TEQMinWHO2005Dioxin	0.0000666

<b>TOTALS</b>		
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	QC Batch: B4I0053	Lab Sample: B4I0053-BS1					
Sample Size: 10.0 g	Date Extracted: 15-Sep-2014 15:17	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: CS-CB-01-20140903-S** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: SoundEarth Strategies, Inc.	Matrix: Sediment	Lab Sample: 1400668-03      Date Received: 13-Sep-2014 9:58
Project: NPDES Sampling Support	Sample Size: 23.7 g	QC Batch: B4I0053      Date Extracted: 15-Sep-2014 15:17
Date Collected: 03-Sep-2014 13:00	% Solids: 42.5	Date Analyzed: 17-Sep-14 21:15      Column: ZB-5MS      Analyst: MAS
		18-Sep-14 14:17      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	0.497		0.486	0.0778		IS 13C-2,3,7,8-TCDD	73.8	25 - 164	
1,2,3,7,8-PeCDD	2.98	2.49			0.230		13C-1,2,3,7,8-PeCDD	89.1	25 - 181	
1,2,3,4,7,8-HxCDD	4.45	2.49			0.231		13C-1,2,3,4,7,8-HxCDD	83.5	32 - 141	
1,2,3,6,7,8-HxCDD	13.9	2.49			0.126		13C-1,2,3,6,7,8-HxCDD	94.3	28 - 130	
1,2,3,7,8,9-HxCDD	9.68	2.49			0.173		13C-1,2,3,7,8,9-HxCDD	83.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	319	2.49			0.263		13C-1,2,3,4,6,7,8-HpCDD	82.5	23 - 140	
OCDD	2380	4.97			0.167	B	13C-OCDD	85.4	17 - 157	
2,3,7,8-TCDF	3.06	0.497			0.0289		13C-2,3,7,8-TCDF	81.0	24 - 169	
1,2,3,7,8-PeCDF	2.29	2.49			0.254	J	13C-1,2,3,7,8-PeCDF	94.6	24 - 185	
2,3,4,7,8-PeCDF	3.60	2.49			0.211		13C-2,3,4,7,8-PeCDF	90.3	21 - 178	
1,2,3,4,7,8-HxCDF	5.71	2.49			0.154		13C-1,2,3,4,7,8-HxCDF	92.6	26 - 152	
1,2,3,6,7,8-HxCDF	5.01	2.49			0.195		13C-1,2,3,6,7,8-HxCDF	71.6	26 - 123	
2,3,4,6,7,8-HxCDF	6.23	2.49			0.0805		13C-2,3,4,6,7,8-HxCDF	78.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.451	2.49			0.195	J	13C-1,2,3,7,8,9-HxCDF	87.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	68.2	2.49			0.230		13C-1,2,3,4,6,7,8-HpCDF	87.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.97	2.49			0.211		13C-1,2,3,4,7,8,9-HpCDF	90.9	26 - 138	
OCDF	112	4.97			0.470		13C-OCDF	78.0	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	75.5	35 - 197	

							<b>Toxic Equivalent Quotient (TEQ) Data</b>				
							TEQMinWHO2005Dioxin		13.6		

<b>TOTALS</b>										
Total TCDD	15.9			17.4						
Total PeCDD	31.3									
Total HxCDD	117									
Total HpCDD	653					B				
Total TCDF	70.4									
Total PeCDF	74.3			74.6						
Total HxCDF	90.4									
Total HpCDF	143									

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: B4I0067	Lab Sample: B4I0067-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Sep-2014 9:01	Date Analyzed: 25-Sep-14 13:27 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	1.85		1.21		PCB-43/49	ND	10.0	1.16		3.38	
PCB-2	ND	5.00	1.98		1.75		PCB-44	ND	5.00	1.38		2.48	
PCB-3	ND	5.00	1.92		1.49		PCB-45	ND	5.00	1.34		1.96	
PCB-4/10	ND	20.0	9.05		5.64		PCB-46	ND	5.00	1.36		2.49	
PCB-5/8	ND	20.0	7.54		3.59		PCB-47	ND	5.00		1.61	4.42	
PCB-6	ND	10.0	7.39		3.10		PCB-48/75	ND	10.0	0.993		2.09	
PCB-7/9	ND	20.0	7.34		6.22		PCB-50	ND	5.00	1.16		1.40	
PCB-11	12.8	10.0			3.86		PCB-51	ND	5.00	1.12		1.42	
PCB-12/13	ND	20.0	7.77		5.01		PCB-52/69	1.93	10.0			3.64	J
PCB-14	ND	10.0	6.93		3.98		PCB-53	ND	5.00	1.09		1.12	
PCB-15	ND	10.0	7.06		2.53		PCB-54	ND	5.00	0.933		1.51	
PCB-16/32	ND	10.0		1.90	2.87		PCB-55	ND	5.00	0.923		1.19	
PCB-17	ND	5.00	0.766		1.37		PCB-56/60	ND	10.0	0.943		2.19	
PCB-18	ND	5.00		1.30	2.57		PCB-57	ND	5.00	0.904		0.857	
PCB-19	ND	5.00	0.833		2.38		PCB-58	ND	5.00	0.914		1.81	
PCB-20/21/33	ND	15.0		1.04	10.3		PCB-61/70	ND	10.0	0.932		2.40	
PCB-22	ND	5.00	0.872		3.17		PCB-62	ND	5.00	1.00		1.46	
PCB-23	ND	5.00	0.879		1.35		PCB-63	ND	5.00	0.901		0.696	
PCB-24/27	ND	10.0	0.586		3.16		PCB-65	ND	5.00	0.971		0.953	
PCB-25	ND	5.00	0.858		3.34		PCB-66/76	ND	10.0	0.886		2.82	
PCB-26	ND	5.00	0.892		2.19		PCB-67	ND	5.00	0.938		1.22	
PCB-28	1.47	5.00			2.90	J	PCB-68	ND	5.00	0.872		1.24	
PCB-29	ND	5.00	0.867		1.60		PCB-73	ND	5.00	0.942		1.56	
PCB-30	ND	5.00	0.590		2.09		PCB-74	ND	5.00	0.836		1.53	
PCB-31	ND	5.00		0.892	4.29		PCB-77	ND	5.00	0.863		1.34	
PCB-34	ND	5.00	0.914		2.34		PCB-78	ND	5.00	0.938		0.990	
PCB-35	ND	5.00	0.888		1.65		PCB-79	ND	5.00	0.912		1.60	
PCB-36	ND	5.00	0.888		2.69		PCB-80	ND	5.00	0.802		1.98	
PCB-37	ND	5.00	0.879		1.92		PCB-81	ND	5.00	0.840		2.34	
PCB-38	ND	5.00	0.903		1.56		PCB-82	ND	5.00	3.65		1.69	
PCB-39	ND	5.00	0.861		2.60		PCB-83	ND	5.00	2.25		1.32	
PCB-40	ND	5.00	1.58		3.08		PCB-84/92	ND	10.0	2.86		3.38	
PCB-41/64/71/72	ND	20.0	0.987		5.57		PCB-85/116	ND	10.0	2.63		2.83	
PCB-42/59	ND	10.0	1.06		2.84		PCB-86	ND	5.00	3.35		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: B4I0067	Lab Sample: B4I0067-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Sep-2014 9:01	Date Analyzed: 25-Sep-14 13:27 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	2.20		3.79		PCB-133/142	ND	10.0	1.47		2.19	
PCB-88/91	ND	5.00	3.35		3.25		PCB-134/143	ND	10.0	1.50		2.40	
PCB-89	ND	5.00	2.96		1.84		PCB-135	ND	5.00	3.65		2.90	
PCB-90/101	ND	10.0	2.53		1.92		PCB-136	ND	5.00	2.62		2.89	
PCB-93	ND	5.00	3.02		1.47		PCB-137	ND	5.00	1.53		2.08	
PCB-94	ND	5.00	3.08		1.91		PCB-138/163/164	ND	15.0	1.30		2.68	
PCB-95/98/102	ND	15.0	2.81		6.58		PCB-139/149	ND	10.0	3.37		7.87	
PCB-96	ND	5.00	2.08		2.16		PCB-140	ND	5.00	3.63		3.52	
PCB-97	ND	5.00	2.75		1.24		PCB-141	ND	5.00	1.68		1.15	
PCB-99	ND	5.00	2.33		1.94		PCB-144	ND	5.00	3.47		3.22	
PCB-100	ND	5.00	2.27		2.03		PCB-145	ND	5.00	2.60		1.73	
PCB-103	ND	5.00	2.44		2.28		PCB-146/165	ND	10.0	1.20		1.91	
PCB-104	ND	5.00	1.81		0.931		PCB-147	ND	5.00	3.43		3.62	
PCB-105	ND	5.00	1.58		2.21		PCB-148	ND	5.00	3.84		1.68	
PCB-106/118	ND	10.0	2.09		2.44		PCB-150	ND	5.00	2.67		1.14	
PCB-107/109	ND	10.0	2.20		1.98		PCB-151	ND	5.00	3.52		3.59	
PCB-108/112	ND	10.0	2.66		1.86		PCB-152	ND	5.00	2.59		1.82	
PCB-110	ND	5.00	2.04		1.94		PCB-153	ND	5.00	1.18		1.83	
PCB-111/115	ND	10.0	1.96		0.768		PCB-154	ND	5.00	3.22		2.78	
PCB-113	ND	5.00	2.23		1.31		PCB-155	ND	5.00	2.51		1.45	I
PCB-114	ND	5.00	1.56		1.81		PCB-156	ND	5.00	1.20		1.74	
PCB-119	ND	5.00	1.99		0.949		PCB-157	ND	5.00	1.28		1.17	
PCB-120	ND	5.00	1.92		1.01		PCB-158/160	ND	10.0	1.23		1.99	
PCB-121	ND	5.00	1.79		1.94		PCB-159	ND	5.00	1.21		1.20	
PCB-122	ND	5.00	1.71		1.84		PCB-166	ND	5.00	1.26		0.920	
PCB-123	ND	5.00	2.21		1.35		PCB-167	ND	5.00	1.27		1.65	
PCB-124	ND	5.00	2.04		1.79		PCB-168	ND	5.00	1.01		0.933	
PCB-126	ND	5.00	1.89		2.05		PCB-169	ND	5.00	1.42		1.12	
PCB-127	ND	5.00	1.67		0.808		PCB-170	ND	5.00	1.51		1.38	
PCB-128/162	ND	10.0	1.38		1.68		PCB-171	ND	5.00	1.35		1.61	
PCB-129	ND	5.00	1.72		1.11		PCB-172	ND	5.00	1.45		1.46	
PCB-130	ND	5.00	1.93		2.21		PCB-173	ND	5.00	1.53		1.49	
PCB-131	ND	5.00	1.52		1.46		PCB-174	ND	5.00	1.33		1.42	
PCB-132/161	ND	10.0	1.25		2.34		PCB-175	ND	5.00	1.23		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: B4I0067	Lab Sample: B4I0067-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Sep-2014 9:01	Date Analyzed: 25-Sep-14 13:27 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	0.875		2.17		Total triCB	1.47	5.00		6.60		J
PCB-177	ND	5.00	1.43		1.34		Total tetraCB	1.93	5.00		3.53		J
PCB-178	ND	5.00	1.27		2.25		Total pentaCB	ND	5.00	3.65			
PCB-179	ND	5.00	0.914		1.57		Total hexaCB	ND	5.00	3.84			
PCB-180	ND	5.00	1.24		0.610		Total heptaCB	ND	5.00	1.53			
PCB-181	ND	5.00	1.30		1.01		Total octaCB	ND	5.00	3.33			
PCB-182/187	ND	10.0	1.17		6.20		Total nonaCB	ND	5.00	2.92			
PCB-183	ND	5.00	1.10		3.29		DecaCB	ND	5.00	2.65			
PCB-184	ND	5.00	0.963		1.25		Total PCB	16.2	10.0				
PCB-185	ND	5.00	1.32		1.47								
PCB-186	ND	5.00	0.934		2.43								
PCB-188	ND	5.00	0.849		1.08								
PCB-189	ND	5.00	1.15		1.49								
PCB-190	ND	5.00	1.12		1.70								
PCB-191	ND	5.00	1.06		1.96								
PCB-192	ND	5.00	1.16		1.69								
PCB-193	ND	5.00	1.07		1.46								
PCB-194	ND	5.00	2.10		1.71								
PCB-195	ND	5.00	2.18		1.47								
PCB-196/203	ND	10.0	3.14		6.35								
PCB-197	ND	5.00	2.26		1.80								
PCB-198	ND	5.00	3.26		3.78								
PCB-199	ND	5.00	3.33		4.05								
PCB-200	ND	5.00	2.38		1.75								
PCB-201	ND	5.00	2.20		1.02								
PCB-202	ND	5.00	2.33		1.55								
PCB-204	ND	5.00	2.44		1.48								
PCB-205	ND	5.00	1.85		1.53								
PCB-206	ND	5.00	2.92		1.32								
PCB-207	ND	5.00	1.26		1.51								
PCB-208	ND	5.00	1.20		1.34								
PCB-209	ND	5.00	2.65		1.86								
Total monoCB	ND	5.00	1.98										
Total diCB	12.8	10.0											

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: B4I0067	Lab Sample: B4I0067-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Sep-2014 9:01	Date Analyzed: 25-Sep-14 13:27 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	84.8	5 - 145		13C-PCB-157	89.4	10 - 145	
13C-PCB-3	84.7	5 - 145		13C-PCB-159	90.2	10 - 145	
13C-PCB-4	69.4	5 - 145		13C-PCB-167	89.1	10 - 145	
13C-PCB-11	73.8	5 - 145		13C-PCB-169	79.0	10 - 145	
13C-PCB-9	71.2	5 - 145		13C-PCB-170	72.3	10 - 145	
13C-PCB-19	71.4	5 - 145		13C-PCB-180	80.9	10 - 145	
13C-PCB-28	67.3	5 - 145		13C-PCB-188	83.6	10 - 145	
13C-PCB-32	74.9	5 - 145		13C-PCB-189	74.7	10 - 145	
13C-PCB-37	74.0	5 - 145		13C-PCB-194	85.4	10 - 145	
13C-PCB-47	78.3	5 - 145		13C-PCB-202	62.1	10 - 145	
13C-PCB-52	80.4	5 - 145		13C-PCB-206	107	10 - 145	
13C-PCB-54	77.1	5 - 145		13C-PCB-208	108	10 - 145	
13C-PCB-70	81.6	5 - 145		13C-PCB-209	101	10 - 145	
13C-PCB-77	87.6	10 - 145		CRS 13C-PCB-79	102	10 - 145	
13C-PCB-80	80.4	10 - 145		13C-PCB-178	95.5	10 - 145	
13C-PCB-81	83.3	10 - 145					
13C-PCB-95	76.2	10 - 145					
13C-PCB-97	84.8	10 - 145					
13C-PCB-101	82.0	10 - 145					
13C-PCB-104	82.9	10 - 145					
13C-PCB-105	90.2	10 - 145					
13C-PCB-114	91.3	10 - 145					
13C-PCB-118	79.6	10 - 145					
13C-PCB-123	78.5	10 - 145					
13C-PCB-126	84.6	10 - 145					
13C-PCB-127	91.4	10 - 145					
13C-PCB-138	90.7	10 - 145					
13C-PCB-141	87.8	10 - 145					
13C-PCB-153	97.1	10 - 145					
13C-PCB-155	53.7	10 - 145					
13C-PCB-156	87.0	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

**Sample ID: OPR****EPA Method 1668C**Matrix: Aqueous  
Sample Size: 1.00 LQC Batch: B4I0067  
Date Extracted: 23-Sep-2014 9:01Lab Sample: B4I0067-BS1  
Date Analyzed: 25-Sep-14 10:14 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1080	1000	108	60 - 135	IS 13C-PCB-1	85.9	15 - 145
PCB-3	1090	1000	109	60 - 135	IS 13C-PCB-3	87.0	15 - 145
PCB-4/10	3990	4000	99.7	60 - 135	IS 13C-PCB-4	70.9	15 - 145
PCB-15	1930	2000	96.3	60 - 135	IS 13C-PCB-9	73.3	15 - 145
PCB-19	1080	1000	108	60 - 135	IS 13C-PCB-11	77.8	15 - 145
PCB-37	822	1000	82.2	60 - 135	IS 13C-PCB-19	74.3	15 - 145
PCB-54	1020	1000	102	60 - 135	IS 13C-PCB-28	75.6	15 - 145
PCB-77	1100	1000	110	60 - 135	IS 13C-PCB-32	79.3	15 - 145
PCB-81	1090	1000	109	60 - 135	IS 13C-PCB-37	74.9	15 - 145
PCB-104	1060	1000	106	60 - 135	IS 13C-PCB-47	84.0	15 - 145
PCB-105	1020	1000	102	60 - 135	IS 13C-PCB-52	85.2	15 - 145
PCB-106/118	2220	2000	111	60 - 135	IS 13C-PCB-54	81.1	15 - 145
PCB-114	1000	1000	100	60 - 135	IS 13C-PCB-70	88.1	15 - 145
PCB-123	1120	1000	112	60 - 135	IS 13C-PCB-77	88.2	40 - 145
PCB-126	1010	1000	101	60 - 135	IS 13C-PCB-80	88.9	40 - 145
PCB-155	1210	1000	121	60 - 135	IS 13C-PCB-81	86.5	40 - 145
PCB-156	1130	1000	113	60 - 135	IS 13C-PCB-95	85.7	40 - 145
PCB-157	1110	1000	111	60 - 135	IS 13C-PCB-97	87.4	40 - 145
PCB-167	1130	1000	113	60 - 135	IS 13C-PCB-101	87.8	40 - 145
PCB-169	1110	1000	111	60 - 135	IS 13C-PCB-104	83.7	40 - 145
PCB-188	1150	1000	115	60 - 135	IS 13C-PCB-105	83.6	40 - 145
PCB-189	1240	1000	124	60 - 135	IS 13C-PCB-114	82.4	40 - 145
PCB-202	1130	1000	113	60 - 135	IS 13C-PCB-118	87.9	40 - 145
PCB-205	976	1000	97.6	60 - 135	IS 13C-PCB-123	85.7	40 - 145
PCB-206	927	1000	92.7	60 - 135	IS 13C-PCB-126	80.9	40 - 145
PCB-208	913	1000	91.3	60 - 135	IS 13C-PCB-127	85.5	40 - 145
PCB-209	1130	1000	113	60 - 135	IS 13C-PCB-138	87.9	40 - 145
					IS 13C-PCB-141	91.5	40 - 145
					IS 13C-PCB-153	89.2	40 - 145
					IS 13C-PCB-155	61.6	40 - 145
					IS 13C-PCB-156	90.9	40 - 145
					IS 13C-PCB-157	92.0	40 - 145
					IS 13C-PCB-159	91.9	40 - 145
					IS 13C-PCB-167	90.3	40 - 145
					IS 13C-PCB-169	84.5	40 - 145
					IS 13C-PCB-170	81.2	40 - 145
					IS 13C-PCB-180	83.0	40 - 145
					IS 13C-PCB-188	78.7	40 - 145
					IS 13C-PCB-189	73.1	40 - 145
					IS 13C-PCB-194	92.0	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Aqueous  
Sample Size: 1.00 L

QC Batch: B4I0067  
Date Extracted: 23-Sep-2014 9:01

Lab Sample: B4I0067-BS1  
Date Analyzed: 25-Sep-14 10:14 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	69.2	40 - 145
					IS 13C-PCB-206	114	40 - 145
					IS 13C-PCB-208	106	40 - 145
					IS 13C-PCB-209	116	40 - 145
					CRS 13C-PCB-79	105	40 - 145
					CRS 13C-PCB-178	98.9	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	SoundEarth Strategies, Inc.			Matrix:	Aqueous		Lab Sample:	1400668-01		Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support			Sample Size:	0.954 L		QC Batch:	B410067		Date Extracted:	23-Sep-2014 9:01		
Date Collected:	03-Sep-2014 12:00						Date Analyzed :	25-Sep-14 17:45		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	13.3	5.24			1.21		PCB-44	60.7	5.24			2.48	
PCB-2	2.40	5.24			1.75	J	PCB-45	10.8	5.24			1.96	
PCB-3	4.84	5.24			1.49	J	PCB-46	5.26	5.24			2.49	
PCB-4/10	31.9	21.0			5.64		PCB-47	17.9	5.24			4.42	
PCB-5/8	66.2	21.0			3.59		PCB-48/75	11.0	10.5			2.09	
PCB-6	13.1	10.5			3.10		PCB-50	ND	5.24	1.31		1.40	
PCB-7/9	ND	21.0	6.48		6.22		PCB-51	3.68	5.24			1.42	J
PCB-11	65.4	10.5			3.86	B	PCB-52/69	54.5	10.5			3.64	B
PCB-12/13	5.27	21.0			5.01	J	PCB-53	7.29	5.24			1.12	
PCB-14	ND	10.5	5.98		3.98		PCB-54	ND	5.24	1.06		1.51	
PCB-15	29.4	10.5			2.53		PCB-55	1.49	5.24			1.19	J
PCB-16/32	52.2	10.5			2.87		PCB-56/60	39.8	10.5			2.19	
PCB-17	26.0	5.24			1.37		PCB-57	0.747	5.24			0.857	J
PCB-18	74.6	5.24			2.57		PCB-58	0.402	5.24			1.81	J
PCB-19	8.97	5.24			2.38		PCB-61/70	67.7	10.5			2.40	
PCB-20/21/33	47.4	15.7			10.3		PCB-62	ND	5.24	1.19		1.46	
PCB-22	28.8	5.24			3.17		PCB-63	2.22	5.24			0.696	J
PCB-23	ND	5.24	1.36		1.35		PCB-65	ND	5.24	1.15		0.953	
PCB-24/27	7.12	10.5			3.16	J	PCB-66/76	45.7	10.5			2.82	
PCB-25	4.99	5.24			3.34	J	PCB-67	2.76	5.24			1.22	J
PCB-26	9.72	5.24			2.19		PCB-68	1.67	5.24			1.24	J
PCB-28	51.1	5.24			2.90	B	PCB-73	ND	5.24	1.17		1.56	
PCB-29	ND	5.24	1.34		1.60		PCB-74	23.2	5.24			1.53	
PCB-30	ND	5.24	0.702		2.09		PCB-77	12.3	5.24			1.34	
PCB-31	43.1	5.24			4.29		PCB-78	ND	5.24	0.955		0.990	
PCB-34	ND	5.24	1.41		2.34		PCB-79	2.04	5.24			1.60	J
PCB-35	2.24	5.24			1.65	J	PCB-80	ND	5.24	0.830		1.98	
PCB-36	ND	5.24	1.70		2.69		PCB-81	ND	5.24	0.856		2.34	
PCB-37	26.9	5.24			1.92		PCB-82	17.1	5.24			1.69	
PCB-38	ND	5.24	1.73		1.56		PCB-83	ND	5.24	2.35		1.32	
PCB-39	ND	5.24	1.65		2.60		PCB-84/92	44.9	10.5			3.38	
PCB-40	10.9	5.24			3.08		PCB-85/116	19.3	10.5			2.83	
PCB-41/64/71/72	60.2	21.0			5.57		PCB-86	ND	5.24	3.50		2.34	
PCB-42/59	21.3	10.5			2.84		PCB-87/117/125	41.8	15.7			3.79	
PCB-43/49	36.3	10.5			3.38		PCB-88/91	13.8	5.24			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: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	SoundEarth Strategies, Inc.			Matrix:	Aqueous		Lab Sample:	1400668-01		Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support			Sample Size:	0.954 L		QC Batch:	B410067		Date Extracted:	23-Sep-2014 9:01		
Date Collected:	03-Sep-2014 12:00						Date Analyzed:	25-Sep-14 17:45		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	5.24	3.17		1.84		PCB-136	24.5	5.24			2.89	
PCB-90/101	125	10.5			1.92		PCB-137	6.81	5.24			2.08	
PCB-93	ND	5.24	2.91		1.47		PCB-138/163/164	238	15.7			2.68	
PCB-94	ND	5.24	2.97		1.91		PCB-139/149	159	10.5			7.87	
PCB-95/98/102	80.5	15.7			6.58		PCB-140	ND	5.24	3.82		3.52	
PCB-96	ND	5.24	2.44		2.16		PCB-141	48.9	5.24			1.15	
PCB-97	30.9	5.24			1.24		PCB-144	7.50	5.24			3.22	
PCB-99	41.0	5.24			1.94		PCB-145	ND	5.24	2.74		1.73	
PCB-100	ND	5.24	2.66		2.03		PCB-146/165	37.6	10.5			1.91	
PCB-103	ND	5.24	2.85		2.28		PCB-147	ND	5.24	3.61		3.62	
PCB-104	ND	5.24	2.12		0.931		PCB-148	ND	5.24	4.04		1.68	
PCB-105	45.8	5.24			2.21		PCB-150	ND	5.24	2.81		1.14	
PCB-106/118	105	10.5			2.44		PCB-151	46.8	5.24			3.59	
PCB-107/109	9.02	10.5			1.98	J	PCB-152	ND	5.24	2.73		1.82	
PCB-108/112	4.72	10.5			1.86	J	PCB-153	214	5.24			1.83	
PCB-110	127	5.24			1.94		PCB-154	5.68	5.24			2.78	
PCB-111/115	1.80	10.5			0.768	J	PCB-155	ND	5.24	2.64		1.45	
PCB-113	3.09	5.24			1.31	J	PCB-156	21.5	5.24			1.74	
PCB-114	2.71	5.24			1.81	J	PCB-157	4.99	5.24			1.17	J
PCB-119	2.65	5.24			0.949	J	PCB-158/160	25.3	10.5			1.99	
PCB-120	ND	5.24	2.00		1.01		PCB-159	ND	5.24	2.16		1.20	
PCB-121	ND	5.24	1.73		1.94		PCB-166	ND	5.24	2.25		0.920	
PCB-122	1.72	5.24			1.84	J	PCB-167	9.48	5.24			1.65	
PCB-123	ND	5.24	2.46		1.35		PCB-168	ND	5.24	1.87		0.933	
PCB-124	ND	5.24		5.43	1.79		PCB-169	ND	5.24	2.89		1.12	
PCB-126	2.81	5.24			2.05	J	PCB-170	87.2	5.24			1.38	
PCB-127	ND	5.24	1.95		0.808		PCB-171	24.8	5.24			1.61	
PCB-128/162	31.5	10.5			1.68		PCB-172	16.2	5.24			1.46	
PCB-129	10.8	5.24			1.11		PCB-173	ND	5.24		2.01	1.49	
PCB-130	13.8	5.24			2.21		PCB-174	94.5	5.24			1.42	
PCB-131	ND	5.24	2.81		1.46		PCB-175	4.10	5.24			3.15	J
PCB-132/161	59.0	10.5			2.34		PCB-176	10.1	5.24			2.17	
PCB-133/142	6.97	10.5			2.19	J	PCB-177	56.4	5.24			1.34	
PCB-134/143	10.2	10.5			2.40	J	PCB-178	ND	5.24		14.8	2.25	
PCB-135	26.3	5.24			2.90		PCB-179	33.3	5.24			1.57	

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

**Sample ID: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>					
Name:	SoundEarth Strategies, Inc.			Matrix:	Aqueous		Lab Sample:	1400668-01	Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support			Sample Size:	0.954 L		QC Batch:	B4I0067	Date Extracted:	23-Sep-2014 9:01		
Date Collected:	03-Sep-2014 12:00						Date Analyzed :	25-Sep-14 17:45		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	189	5.24			0.610		Total octaCB	158	5.24		163		
PCB-181	ND	5.24	1.66		1.01		Total nonaCB	18.8	5.24				
PCB-182/187	101	10.5			6.20		DecaCB	6.28	5.24				
PCB-183	47.2	5.24			3.29		Total PCB	3740	10.5				B
PCB-184	ND	5.24	1.17		1.25								
PCB-185	10.5	5.24			1.47								
PCB-186	ND	5.24	1.13		2.43								
PCB-188	ND	5.24	1.03		1.08								
PCB-189	3.86	5.24			1.49	J							
PCB-190	15.0	5.24			1.70								
PCB-191	4.45	5.24			1.96	J							
PCB-192	ND	5.24	1.48		1.69								
PCB-193	11.0	5.24			1.46								
PCB-194	31.8	5.24			1.71								
PCB-195	15.6	5.24			1.47								
PCB-196/203	48.2	10.5			6.35								
PCB-197	4.08	5.24			1.80	J							
PCB-198	ND	5.24	3.76		3.78								
PCB-199	43.9	5.24			4.05								
PCB-200	5.31	5.24			1.75								
PCB-201	ND	5.24		4.82	1.02								
PCB-202	9.22	5.24			1.55								
PCB-204	ND	5.24	2.81		1.48								
PCB-205	ND	5.24	3.18		1.53								
PCB-206	12.5	5.24			1.32								
PCB-207	2.13	5.24			1.51	J							
PCB-208	4.16	5.24			1.34	J							
PCB-209	6.28	5.24			1.86								
Total monoCB	20.5	5.24											
Total diCB	211	10.5				B							
Total triCB	383	5.24				B							
Total tetraCB	500	5.24				B							
Total pentaCB	720	5.24		725									
Total hexaCB	1010	5.24											
Total heptaCB	709	5.24		726									

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

**Sample ID: CS-TS-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	SoundEarth Strategies, Inc.	Matrix:	Aqueous	Lab Sample:	1400668-01
Project:	NPDES Sampling Support	Sample Size:	0.954 L	Date Received:	13-Sep-2014 9:58
Date Collected:	03-Sep-2014 12:00			QC Batch:	B4I0067
				Date Analyzed :	25-Sep-14 17:45
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	98.3	5 -145		13C-PCB-170	71.6	10 -145	
13C-PCB-3	93.9	5 -145		13C-PCB-180	75.1	10 -145	
13C-PCB-4	80.5	5 -145		13C-PCB-188	84.1	10 -145	
13C-PCB-11	89.8	5 -145		13C-PCB-189	61.9	10 -145	
13C-PCB-9	85.0	5 -145		13C-PCB-194	86.4	10 -145	
13C-PCB-19	77.1	5 -145		13C-PCB-202	61.9	10 -145	
13C-PCB-28	106	5 -145		13C-PCB-206	113	10 -145	
13C-PCB-32	82.1	5 -145		13C-PCB-208	122	10 -145	
13C-PCB-37	108	5 -145		13C-PCB-209	131	10 -145	
13C-PCB-47	88.2	5 -145		CRS 13C-PCB-79	105	10 -145	
13C-PCB-52	88.2	5 -145		13C-PCB-178	96.7	10 -145	
13C-PCB-54	80.1	5 -145					
13C-PCB-70	90.4	5 -145					
13C-PCB-77	88.8	10 -145					
13C-PCB-80	90.5	10 -145					
13C-PCB-81	94.2	10 -145					
13C-PCB-95	86.2	10 -145					
13C-PCB-97	88.8	10 -145					
13C-PCB-101	85.5	10 -145					
13C-PCB-104	92.9	10 -145					
13C-PCB-105	91.6	10 -145					
13C-PCB-114	88.5	10 -145					
13C-PCB-118	80.9	10 -145					
13C-PCB-123	77.2	10 -145					
13C-PCB-126	88.2	10 -145					
13C-PCB-127	92.8	10 -145					
13C-PCB-138	92.7	10 -145					
13C-PCB-141	94.5	10 -145					
13C-PCB-153	97.2	10 -145					
13C-PCB-155	61.2	10 -145					
13C-PCB-156	87.4	10 -145					
13C-PCB-157	87.1	10 -145					
13C-PCB-159	91.1	10 -145					
13C-PCB-167	89.4	10 -145					
13C-PCB-169	68.8	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: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>							
Name:	SoundEarth Strategies, Inc.			Matrix:	Aqueous		Lab Sample:	1400668-02		Date Received:	13-Sep-2014 9:58			
Project:	NPDES Sampling Support			Sample Size:	0.959 L		QC Batch:	B410067		Date Extracted:	23-Sep-2014 9:01			
Date Collected:	03-Sep-2014 14:15						Date Analyzed :	25-Sep-14 18:49		Column:	ZB-1 Analyst: DMS			
									26-Sep-14 16:42		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	5.82	5.21			1.21		PCB-44	187	5.21			2.48	
PCB-2	2.32	5.21			1.75	J	PCB-45	29.2	5.21			1.96	
PCB-3	6.07	5.21			1.49		PCB-46	14.8	5.21			2.49	
PCB-4/10	25.3	20.8			5.64		PCB-47	58.3	5.21			4.42	
PCB-5/8	82.9	20.8			3.59		PCB-48/75	31.6	10.4			2.09	
PCB-6	17.1	10.4			3.10		PCB-50	ND	5.21	1.71		1.40	
PCB-7/9	7.57	20.8			6.22	J	PCB-51	9.49	5.21			1.42	
PCB-11	96.9	10.4			3.86	B	PCB-52/69	193	10.4			3.64	B
PCB-12/13	7.36	20.8			5.01	J	PCB-53	20.9	5.21			1.12	
PCB-14	ND	10.4	6.56		3.98		PCB-54	ND	5.21	1.38		1.51	
PCB-15	66.3	10.4			2.53		PCB-55	6.05	5.21			1.19	
PCB-16/32	97.8	10.4			2.87		PCB-56/60	140	10.4			2.19	
PCB-17	50.7	5.21			1.37		PCB-57	ND	5.21		1.77	0.857	
PCB-18	140	5.21			2.57		PCB-58	0.896	5.21			1.81	J
PCB-19	14.6	5.21			2.38		PCB-61/70	260	10.4			2.40	
PCB-20/21/33	120	15.6			10.3		PCB-62	ND	5.21	1.76		1.46	
PCB-22	70.3	5.21			3.17		PCB-63	7.13	5.21			0.696	
PCB-23	ND	5.21	2.27		1.35		PCB-65	ND	5.21	1.71		0.953	
PCB-24/27	12.9	10.4			3.16		PCB-66/76	166	10.4			2.82	
PCB-25	12.8	5.21			3.34		PCB-67	7.83	5.21			1.22	
PCB-26	29.7	5.21			2.19		PCB-68	4.31	5.21			1.24	J
PCB-28	125	5.21			2.90	B	PCB-73	ND	5.21	1.64		1.56	
PCB-29	ND	5.21	2.24		1.60		PCB-74	79.8	5.21			1.53	
PCB-30	ND	5.21	0.562		2.09		PCB-77	45.0	5.21			1.34	
PCB-31	144	5.21			4.29		PCB-78	ND	5.21	2.02		0.990	
PCB-34	ND	5.21	2.36		2.34		PCB-79	7.97	5.21			1.60	
PCB-35	5.90	5.21			1.65		PCB-80	ND	5.21	1.43		1.98	
PCB-36	ND	5.21	1.98		2.69		PCB-81	3.18	5.21			2.34	J
PCB-37	88.6	5.21			1.92		PCB-82	73.1	5.21			1.69	
PCB-38	2.56	5.21			1.56	J	PCB-83	ND	5.21	3.07		1.32	
PCB-39	ND	5.21	1.92		2.60		PCB-84/92	191	10.4			3.38	
PCB-40	43.1	5.21			3.08		PCB-85/116	65.1	10.4			2.83	
PCB-41/64/71/72	182	20.8			5.57		PCB-86	2.69	5.21			2.34	J
PCB-42/59	65.7	10.4			2.84		PCB-87/117/125	169	15.6			3.79	
PCB-43/49	129	10.4			3.38		PCB-88/91	52.8	5.21			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: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>								
Name:	SoundEarth Strategies, Inc.			Matrix:	Aqueous		Lab Sample:	1400668-02		Date Received:	13-Sep-2014 9:58				
Project:	NPDES Sampling Support			Sample Size:	0.959 L		QC Batch:	B410067		Date Extracted:	23-Sep-2014 9:01				
Date Collected:	03-Sep-2014 14:15						Date Analyzed :	25-Sep-14 18:49		Column:	ZB-1		Analyst:	DMS	
									26-Sep-14 16:42		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	4.53	5.21			1.84	J	PCB-136	99.9	26.1			2.89	D
PCB-90/101	497	10.4			1.92		PCB-137	31.4	5.21			2.08	
PCB-93	ND	5.21	3.46		1.47		PCB-138/163/164	974	15.6			2.68	
PCB-94	ND	5.21	3.53		1.91		PCB-139/149	600	52.1			7.87	D
PCB-95/98/102	323	15.6			6.58		PCB-140	ND	26.1	16.8		3.52	D
PCB-96	2.30	5.21			2.16	J	PCB-141	198	5.21			1.15	
PCB-97	128	5.21			1.24		PCB-144	36.8	26.1			3.22	D
PCB-99	169	5.21			1.94		PCB-145	ND	26.1	12.0		1.73	D
PCB-100	ND	5.21	2.78		2.03		PCB-146/165	153	10.4			1.91	
PCB-103	5.58	5.21			2.28		PCB-147	ND	26.1	15.9		3.62	D
PCB-104	ND	5.21	2.21		0.931		PCB-148	ND	26.1	17.8		1.68	D
PCB-105	198	5.21			2.21		PCB-150	ND	26.1	12.4		1.14	D
PCB-106/118	470	10.4			2.44		PCB-151	163	26.1			3.59	D
PCB-107/109	37.8	10.4			1.98		PCB-152	ND	26.1	12.0		1.82	D
PCB-108/112	18.9	10.4			1.86		PCB-153	814	5.21			1.83	
PCB-110	509	5.21			1.94		PCB-154	ND	26.1		11.6	2.78	D
PCB-111/115	5.86	10.4			0.768	J	PCB-155	ND	26.1	11.6		1.45	D
PCB-113	6.67	5.21			1.31		PCB-156	85.2	5.21			1.74	
PCB-114	8.75	5.21			1.81		PCB-157	19.8	5.21			1.17	
PCB-119	12.3	5.21			0.949		PCB-158/160	98.6	10.4			1.99	
PCB-120	1.58	5.21			1.01	J	PCB-159	ND	5.21	3.59		1.20	
PCB-121	ND	5.21	2.06		1.94		PCB-166	ND	5.21	3.75		0.920	
PCB-122	4.58	5.21			1.84	J	PCB-167	39.7	5.21			1.65	
PCB-123	7.12	5.21			1.35		PCB-168	ND	5.21	2.50		0.933	
PCB-124	27.4	5.21			1.79		PCB-169	ND	5.21	16.0		1.12	
PCB-126	8.25	5.21			2.05		PCB-170	354	5.21			1.38	
PCB-127	ND	5.21	3.51		0.808		PCB-171	110	5.21			1.61	
PCB-128/162	141	10.4			1.68		PCB-172	60.6	5.21			1.46	
PCB-129	41.1	5.21			1.11		PCB-173	ND	5.21		6.93	1.49	
PCB-130	63.7	5.21			2.21		PCB-174	379	5.21			1.42	
PCB-131	ND	5.21	3.74		1.46		PCB-175	13.0	5.21			3.15	
PCB-132/161	284	10.4			2.34		PCB-176	39.5	5.21			2.17	
PCB-133/142	28.5	10.4			2.19		PCB-177	225	5.21			1.34	
PCB-134/143	45.2	10.4			2.40		PCB-178	61.1	5.21			2.25	
PCB-135	106	26.1			2.90	D	PCB-179	126	5.21			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: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>				<b>Sample Data</b>			<b>Laboratory Data</b>						
Name:	SoundEarth Strategies, Inc.			Matrix:	Aqueous		Lab Sample:	1400668-02	Date Received:	13-Sep-2014 9:58			
Project:	NPDES Sampling Support			Sample Size:	0.959 L		QC Batch:	B4I0067	Date Extracted:	23-Sep-2014 9:01			
Date Collected:	03-Sep-2014 14:15						Date Analyzed :	25-Sep-14 18:49		Column:	ZB-1	Analyst:	DMS
								26-Sep-14 16:42		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	720	5.21			0.610		Total octaCB	575	5.21				
PCB-181	ND	5.21	3.09		1.01		Total nonaCB	125	5.21				
PCB-182/187	362	10.4			6.20		DecaCB	30.9	5.21				
PCB-183	162	5.21			3.29		Total PCB	13400	10.4				B
PCB-184	ND	5.21	1.60		1.25								
PCB-185	38.6	5.21			1.47								
PCB-186	ND	5.21	1.55		2.43								
PCB-188	ND	5.21	1.41		1.08								
PCB-189	12.8	26.1			1.49	J, D							
PCB-190	56.7	5.21			1.70								
PCB-191	ND	5.21		10.6	1.96								
PCB-192	ND	5.21		20.2	1.69								
PCB-193	36.2	5.21			1.46								
PCB-194	136	5.21			1.71								
PCB-195	65.6	5.21			1.47								
PCB-196/203	137	10.4			6.35								
PCB-197	8.62	5.21			1.80								
PCB-198	9.78	5.21			3.78								
PCB-199	139	5.21			4.05								
PCB-200	20.7	5.21			1.75								
PCB-201	21.1	5.21			1.02								
PCB-202	37.5	5.21			1.55								
PCB-204	ND	5.21	4.90		1.48								
PCB-205	ND	5.21	18.6		1.53								
PCB-206	88.8	26.1			1.32	D							
PCB-207	13.4	26.1			1.51	J, D							
PCB-208	22.4	26.1			1.34	J, D							
PCB-209	30.9	26.1			1.86	D							
Total monoCB	14.2	5.21											
Total diCB	303	10.4				B							
Total triCB	915	5.21				B							
Total tetraCB	1690	5.21				B							
Total pentaCB	3000	5.21											
Total hexaCB	4020	5.21		4030									
Total heptaCB	2760	5.21		2790									

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

**Sample ID: CS-SP-01-20140903-W**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	SoundEarth Strategies, Inc.	Matrix:	Aqueous	Lab Sample:	1400668-02
Project:	NPDES Sampling Support	Sample Size:	0.959 L	Date Received:	13-Sep-2014 9:58
Date Collected:	03-Sep-2014 14:15			QC Batch:	B4I0067
				Date Analyzed:	25-Sep-14 18:49
				Column:	ZB-1
				Analyst:	DMS
				Date Analyzed:	26-Sep-14 16:42
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	104	5 -145		13C-PCB-170	56.6	10 -145	
13C-PCB-3	105	5 -145		13C-PCB-180	68.8	10 -145	
13C-PCB-4	91.3	5 -145		13C-PCB-188	93.6	10 -145	
13C-PCB-11	95.0	5 -145		13C-PCB-189	54.4	10 -145	D
13C-PCB-9	93.6	5 -145		13C-PCB-194	93.2	10 -145	
13C-PCB-19	83.0	5 -145		13C-PCB-202	64.2	10 -145	
13C-PCB-28	74.8	5 -145		13C-PCB-206	96.6	10 -145	D
13C-PCB-32	82.8	5 -145		13C-PCB-208	100	10 -145	D
13C-PCB-37	89.2	5 -145		13C-PCB-209	98.7	10 -145	D
13C-PCB-47	97.9	5 -145		CRS 13C-PCB-79	99.1	10 -145	
13C-PCB-52	96.7	5 -145		13C-PCB-178	102	10 -145	
13C-PCB-54	96.5	5 -145					
13C-PCB-70	93.5	5 -145					
13C-PCB-77	73.0	10 -145					
13C-PCB-80	93.0	10 -145					
13C-PCB-81	77.7	10 -145					
13C-PCB-95	108	10 -145					
13C-PCB-97	100	10 -145					
13C-PCB-101	99.6	10 -145					
13C-PCB-104	112	10 -145					
13C-PCB-105	94.3	10 -145					
13C-PCB-114	102	10 -145					
13C-PCB-118	75.2	10 -145					
13C-PCB-123	77.7	10 -145					
13C-PCB-126	81.7	10 -145					
13C-PCB-127	89.6	10 -145					
13C-PCB-138	93.6	10 -145					
13C-PCB-141	101	10 -145					
13C-PCB-153	96.6	10 -145	D				
13C-PCB-155	68.2	10 -145					
13C-PCB-156	75.2	10 -145					
13C-PCB-157	77.0	10 -145					
13C-PCB-159	86.2	10 -145					
13C-PCB-167	79.3	10 -145					
13C-PCB-169	48.4	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: B4I0107	Lab Sample: B4I0107-BLK1
Sample Size: 2.00 g	Date Extracted: 29-Sep-2014 9:11	Date Analyzed: 02-Oct-14 13:12 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	ND	12.5	1.82		0.320		PCB-43/49	ND	25.0	2.80		0.879	
PCB-2	ND	12.5	1.81		0.240		PCB-44	ND	12.5	3.07		0.745	
PCB-3	ND	12.5	1.51		0.323		PCB-45	ND	12.5	3.22		0.402	
PCB-4/10	ND	50.0	7.76		1.14		PCB-46	ND	12.5	3.29		0.537	
PCB-5/8	ND	50.0	7.21		1.76		PCB-47	ND	12.5	2.50		2.19	
PCB-6	ND	25.0	6.35		1.00		PCB-48/75	ND	25.0	2.15		0.983	
PCB-7/9	ND	50.0	6.85		1.34		PCB-50	ND	12.5	2.56		0.603	
PCB-11	ND	25.0		12.5	3.48		PCB-51	ND	12.5	2.81		0.789	
PCB-12/13	ND	50.0	6.87		1.37		PCB-52/69	ND	25.0	2.17		0.722	
PCB-14	ND	25.0	7.38		0.337		PCB-53	ND	12.5	2.62		0.331	
PCB-15	ND	25.0		5.46	0.634		PCB-54	ND	12.5	2.04		0.275	
PCB-16/32	ND	50.0		8.71	0.430		PCB-55	ND	12.5	2.10		0.416	
PCB-17	ND	12.5	2.17		0.658		PCB-56/60	ND	25.0		4.91	0.825	
PCB-18	ND	12.5	2.56		0.696		PCB-57	ND	12.5	2.25		0.354	
PCB-19	6.30	12.5			0.612	J	PCB-58	ND	12.5	2.38		0.589	
PCB-20/21/33	ND	37.5	2.26		2.47		PCB-61/70	ND	25.0	2.31		1.20	
PCB-22	ND	12.5	2.03		0.964		PCB-62	ND	12.5	2.16		0.597	
PCB-23	ND	12.5	1.91		0.543		PCB-63	ND	12.5	2.31		0.524	
PCB-24/27	ND	25.0	1.68		0.742		PCB-65	ND	12.5	2.16		0.842	
PCB-25	ND	12.5	1.94		0.768		PCB-66/76	ND	25.0	2.11		1.31	
PCB-26	ND	12.5	2.03		0.766		PCB-67	ND	12.5	1.99		0.486	
PCB-28	ND	12.5	1.43		1.12		PCB-68	ND	12.5	1.96		0.658	
PCB-29	ND	12.5	2.27		0.949		PCB-73	ND	12.5	2.06		0.454	
PCB-30	ND	12.5	1.78		0.355		PCB-74	ND	12.5	1.77		0.781	
PCB-31	ND	12.5	1.91		0.809		PCB-77	6.70	12.5		0.748	J	
PCB-34	ND	12.5	2.15		1.57		PCB-78	ND	12.5	1.99		0.385	
PCB-35	ND	12.5	2.44		0.565		PCB-79	ND	12.5	2.02		0.633	
PCB-36	ND	12.5	2.63		0.406		PCB-80	ND	12.5	1.83		0.336	
PCB-37	ND	12.5	2.44		0.389		PCB-81	ND	12.5	1.90		0.674	
PCB-38	ND	12.5	2.50		0.528		PCB-82	ND	12.5	6.74		0.981	
PCB-39	ND	12.5	2.69		0.461		PCB-83	ND	12.5	4.34		0.440	
PCB-40	ND	12.5	3.77		0.927		PCB-84/92	ND	25.0	5.70		1.01	
PCB-41/64/71/72	ND	50.0	2.19		1.70		PCB-85/116	ND	25.0	5.06		1.64	
PCB-42/59	ND	25.0	2.32		0.899		PCB-86	ND	12.5	7.82		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: B4I0107	Lab Sample: B4I0107-BLK1
Sample Size: 2.00 g	Date Extracted: 29-Sep-2014 9:11	Date Analyzed: 02-Oct-14 13:12 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	37.5	4.25		0.880		PCB-133/142	ND	25.0	4.54		1.04	
PCB-88/91	ND	25.0	5.83		1.25		PCB-134/143	ND	25.0	4.06		1.05	
PCB-89	ND	12.5	5.27		1.22		PCB-135	ND	12.5	5.64		1.47	
PCB-90/101	ND	25.0	5.41		1.19		PCB-136	ND	12.5	3.79		0.776	
PCB-93	ND	12.5	7.72		1.42		PCB-137	ND	12.5	3.70		0.541	
PCB-94	ND	12.5	6.16		0.874		PCB-138/163/164	9.98	37.5			0.809	J
PCB-95/98/102	ND	37.5	5.31		1.38		PCB-139/149	13.0	12.5			1.49	
PCB-96	ND	12.5	4.18		0.588		PCB-140	ND	12.5	6.19		1.20	
PCB-97	ND	12.5	5.57		0.675		PCB-141	ND	12.5	3.62		0.678	
PCB-99	ND	12.5	4.46		0.474		PCB-144	ND	12.5	5.86		1.38	
PCB-100	ND	12.5	5.08		0.511		PCB-145	ND	12.5	3.72		1.05	
PCB-103	ND	12.5	4.97		0.428		PCB-146/165	ND	25.0	2.98		0.792	
PCB-104	ND	12.5	4.02		0.876		PCB-147	ND	12.5	5.45		1.65	
PCB-105	3.89	12.5			0.462	J	PCB-148	ND	12.5	6.00		1.45	
PCB-106/118	ND	25.0	4.24		0.728		PCB-150	ND	12.5	4.47		0.801	
PCB-107/109	ND	25.0	3.87		0.631		PCB-151	ND	12.5	5.98		1.16	
PCB-108/112	ND	25.0	5.15		0.844		PCB-152	ND	12.5	4.00		0.744	
PCB-110	ND	12.5	4.23		0.555		PCB-153	9.13	12.5			0.484	J
PCB-111/115	ND	25.0	4.03		1.24		PCB-154	ND	12.5	5.21		0.837	
PCB-113	ND	12.5	4.23		0.495		PCB-155	ND	12.5	4.01		0.767	
PCB-114	ND	12.5	4.16		0.418		PCB-156	ND	12.5		4.36	0.534	
PCB-119	ND	12.5	4.30		0.383		PCB-157	5.85	12.5			0.485	J
PCB-120	ND	12.5	3.93		0.622		PCB-158/160	ND	25.0	2.90		0.915	
PCB-121	ND	12.5	4.03		0.978		PCB-159	ND	12.5	3.41		0.578	
PCB-122	ND	12.5	4.82		0.619		PCB-166	ND	12.5	3.20		0.425	
PCB-123	ND	12.5	4.38		0.494		PCB-167	ND	12.5	2.84		0.653	
PCB-124	ND	12.5	3.48		0.813		PCB-168	ND	12.5	2.57		0.502	
PCB-126	5.94	12.5			0.543	J	PCB-169	7.08	12.5			0.767	J
PCB-127	ND	12.5	4.25		0.326		PCB-170	ND	12.5	3.43		0.758	
PCB-128/162	ND	25.0	3.62		1.08		PCB-171	ND	12.5	2.99		0.372	
PCB-129	ND	12.5	4.56		0.567		PCB-172	ND	12.5	2.90		0.857	
PCB-130	ND	12.5	4.07		0.798		PCB-173	ND	12.5	4.27		0.507	
PCB-131	ND	12.5	4.10		0.731		PCB-174	ND	12.5	3.44		0.797	
PCB-132/161	ND	25.0	3.37		1.05		PCB-175	ND	12.5	3.32		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: B4I0107	Lab Sample: B4I0107-BLK1
Sample Size: 2.00 g	Date Extracted: 29-Sep-2014 9:11	Date Analyzed: 02-Oct-14 13:12 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	12.5	2.28		0.729		Total triCB	6.30	12.5		15.0		J
PCB-177	ND	12.5	3.77		0.404		Total tetraCB	6.70	12.5		11.6		J
PCB-178	ND	12.5	3.25		0.610		Total pentaCB	9.83	12.5				J
PCB-179	ND	12.5	2.58		0.418		Total hexaCB	45.0	12.5		49.4		
PCB-180	ND	12.5	3.52		0.420		Total heptaCB	4.49	12.5		8.99		J
PCB-181	ND	12.5	3.43		1.26		Total octaCB	ND	12.5		2.27		
PCB-182/187	4.49	25.0			1.33	J	Total nonaCB	3.78	12.5				J
PCB-183	ND	12.5	2.78		0.638		DecaCB	ND	12.5				
PCB-184	ND	12.5	2.06		0.597		Total PCB	76.1	25.0				
PCB-185	ND	12.5	2.63		0.557								
PCB-186	ND	12.5	2.31		0.421								
PCB-188	ND	12.5	2.13		0.759								
PCB-189	ND	12.5		4.50	0.483								
PCB-190	ND	12.5	2.48		0.686								
PCB-191	ND	12.5	2.80		0.447								
PCB-192	ND	12.5	2.72		0.528								
PCB-193	ND	12.5	2.76		0.836								
PCB-194	ND	12.5		2.27	0.645								
PCB-195	ND	12.5	2.95		0.722								
PCB-196/203	ND	25.0	5.17		0.983								
PCB-197	ND	12.5	3.86		0.794								
PCB-198	ND	12.5	5.49		0.792								
PCB-199	ND	12.5	5.20		0.615								
PCB-200	ND	12.5	3.90		0.795								
PCB-201	ND	12.5	3.61		0.317								
PCB-202	ND	12.5	3.83		0.759								
PCB-204	ND	12.5	3.64		0.543								
PCB-205	ND	12.5	2.35		0.471								
PCB-206	3.78	12.5			0.852	J							
PCB-207	ND	12.5	1.68		0.402								
PCB-208	ND	12.5	1.96		0.441								
PCB-209	ND	12.5			1.10								
Total monoCB	ND	12.5	1.82										
Total diCB	ND	25.0		18.0									

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: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B4I0107	Lab Sample: B4I0107-BLK1
Sample Size: 2.00 g	Date Extracted: 29-Sep-2014 9:11	Date Analyzed: 02-Oct-14 13:12 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	80.2	5 - 145		13C-PCB-157	85.9	10 - 145	
13C-PCB-3	82.9	5 - 145		13C-PCB-159	86.6	10 - 145	
13C-PCB-4	77.2	5 - 145		13C-PCB-167	86.0	10 - 145	
13C-PCB-11	78.9	5 - 145		13C-PCB-169	72.6	10 - 145	
13C-PCB-9	76.8	5 - 145		13C-PCB-170	82.3	10 - 145	
13C-PCB-19	69.7	5 - 145		13C-PCB-180	82.4	10 - 145	
13C-PCB-28	95.4	5 - 145		13C-PCB-188	89.7	10 - 145	
13C-PCB-32	72.5	5 - 145		13C-PCB-189	71.6	10 - 145	
13C-PCB-37	90.6	5 - 145		13C-PCB-194	94.0	10 - 145	
13C-PCB-47	83.7	5 - 145		13C-PCB-202	84.2	10 - 145	
13C-PCB-52	84.7	5 - 145		13C-PCB-206	107	10 - 145	
13C-PCB-54	80.5	5 - 145		13C-PCB-208	120	10 - 145	
13C-PCB-70	86.0	5 - 145		13C-PCB-209	107	10 - 145	
13C-PCB-77	79.7	10 - 145		CRS 13C-PCB-79	86.9	10 - 145	
13C-PCB-80	86.1	10 - 145		13C-PCB-178	92.1	10 - 145	
13C-PCB-81	83.5	10 - 145					
13C-PCB-95	89.6	10 - 145					
13C-PCB-97	91.5	10 - 145					
13C-PCB-101	91.9	10 - 145					
13C-PCB-104	87.6	10 - 145					
13C-PCB-105	72.6	10 - 145					
13C-PCB-114	78.6	10 - 145					
13C-PCB-118	91.5	10 - 145					
13C-PCB-123	93.8	10 - 145					
13C-PCB-126	67.7	10 - 145					
13C-PCB-127	69.5	10 - 145					
13C-PCB-138	92.6	10 - 145					
13C-PCB-141	93.8	10 - 145					
13C-PCB-153	94.8	10 - 145					
13C-PCB-155	76.0	10 - 145					
13C-PCB-156	82.3	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: 2.00 gQC Batch: B4I0107  
Date Extracted: 29-Sep-2014 9:11Lab Sample: B4I0107-BS1  
Date Analyzed: 02-Oct-14 11:03 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	12900	12500	103	60 - 135	IS 13C-PCB-1	84.6	15 - 145
PCB-3	12800	12500	102	60 - 135	IS 13C-PCB-3	86.1	15 - 145
PCB-4/10	46700	50000	93.4	60 - 135	IS 13C-PCB-4	80.1	15 - 145
PCB-15	22600	25000	90.4	60 - 135	IS 13C-PCB-9	81.2	15 - 145
PCB-19	14200	12500	114	60 - 135	IS 13C-PCB-11	84.3	15 - 145
PCB-37	9650	12500	77.2	60 - 135	IS 13C-PCB-19	70.3	15 - 145
PCB-54	11800	12500	94.4	60 - 135	IS 13C-PCB-28	73.0	15 - 145
PCB-77	12300	12500	98.2	60 - 135	IS 13C-PCB-32	75.3	15 - 145
PCB-81	12400	12500	98.8	60 - 135	IS 13C-PCB-37	78.6	15 - 145
PCB-104	13400	12500	107	60 - 135	IS 13C-PCB-47	88.0	15 - 145
PCB-105	12100	12500	96.7	60 - 135	IS 13C-PCB-52	88.4	15 - 145
PCB-106/118	26500	25000	106	60 - 135	IS 13C-PCB-54	84.6	15 - 145
PCB-114	12300	12500	98.3	60 - 135	IS 13C-PCB-70	91.5	15 - 145
PCB-123	13300	12500	107	60 - 135	IS 13C-PCB-77	88.6	40 - 145
PCB-126	12700	12500	101	60 - 135	IS 13C-PCB-80	93.3	40 - 145
PCB-155	13500	12500	108	60 - 135	IS 13C-PCB-81	90.6	40 - 145
PCB-156	13100	12500	105	60 - 135	IS 13C-PCB-95	93.2	40 - 145
PCB-157	12300	12500	98.5	60 - 135	IS 13C-PCB-97	92.6	40 - 145
PCB-167	12800	12500	102	60 - 135	IS 13C-PCB-101	92.3	40 - 145
PCB-169	12200	12500	97.5	60 - 135	IS 13C-PCB-104	87.7	40 - 145
PCB-188	13000	12500	104	60 - 135	IS 13C-PCB-105	78.1	40 - 145
PCB-189	13100	12500	105	60 - 135	IS 13C-PCB-114	81.1	40 - 145
PCB-202	13100	12500	105	60 - 135	IS 13C-PCB-118	96.1	40 - 145
PCB-205	11200	12500	89.8	60 - 135	IS 13C-PCB-123	97.2	40 - 145
PCB-206	12400	12500	99.6	60 - 135	IS 13C-PCB-126	71.9	40 - 145
PCB-208	12400	12500	99.1	60 - 135	IS 13C-PCB-127	77.1	40 - 145
PCB-209	12600	12500	101	60 - 135	IS 13C-PCB-138	94.8	40 - 145
					IS 13C-PCB-141	93.7	40 - 145
					IS 13C-PCB-153	96.5	40 - 145
					IS 13C-PCB-155	72.7	40 - 145
					IS 13C-PCB-156	91.0	40 - 145
					IS 13C-PCB-157	92.6	40 - 145
					IS 13C-PCB-159	92.5	40 - 145
					IS 13C-PCB-167	91.2	40 - 145
					IS 13C-PCB-169	83.0	40 - 145
					IS 13C-PCB-170	87.1	40 - 145
					IS 13C-PCB-180	88.3	40 - 145
					IS 13C-PCB-188	93.8	40 - 145
					IS 13C-PCB-189	80.6	40 - 145
					IS 13C-PCB-194	98.3	40 - 145

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 2.00 g

QC Batch: B4I0107  
Date Extracted: 29-Sep-2014 9:11

Lab Sample: B4I0107-BS1  
Date Analyzed: 02-Oct-14 11:03 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	83.8	40 - 145
					IS 13C-PCB-206	110	40 - 145
					IS 13C-PCB-208	119	40 - 145
					IS 13C-PCB-209	111	40 - 145
					CRS 13C-PCB-79	93.3	40 - 145
					CRS 13C-PCB-178	92.8	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data						
Name:	SoundEarth Strategies, Inc.			Matrix:	Sediment		Lab Sample:	1400668-03		Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support			Sample Size:	4.96 g		QC Batch:	B4I0107		Date Extracted:	29-Sep-2014 9:11		
Date Collected:	03-Sep-2014 13:00			% Solids:	42.5		Date Analyzed :	02-Oct-14 14:17		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	325	1190			0.320	J, D	PCB-44	6790	1190			0.745	D
PCB-2	ND	1190	489		0.240	D	PCB-45	1180	1190			0.402	J, D
PCB-3	284	1190			0.323	J, D	PCB-46	549	1190			0.537	J, D
PCB-4/10	ND	4750		997	1.14	D	PCB-47	1560	1190			2.19	D
PCB-5/8	4400	4750			1.76	J, D	PCB-48/75	1690	2370			0.983	J, D
PCB-6	852	2370			1.00	J, D	PCB-50	ND	1190	301		0.603	D
PCB-7/9	ND	4750	769		1.34	D	PCB-51	555	1190			0.789	J, D
PCB-11	3160	2370			3.48	D	PCB-52/69	7390	2370			0.722	D
PCB-12/13	ND	4750	1830		1.37	D	PCB-53	928	1190			0.331	J, D
PCB-14	ND	2370	1970		0.337	D	PCB-54	ND	1190	241		0.275	D
PCB-15	2470	2370			0.634	D	PCB-55	ND	1190	226		0.416	D
PCB-16/32	4530	4750			0.430	J, D	PCB-56/60	3780	2370			0.825	D
PCB-17	2310	1190			0.658	D	PCB-57	ND	1190	250		0.354	D
PCB-18	6890	1190			0.696	D	PCB-58	ND	1190	265		0.589	D
PCB-19	ND	1190		796	0.612	D	PCB-61/70	9020	2370			1.20	D
PCB-20/21/33	4270	3560			2.47	D	PCB-62	ND	1190	248		0.597	D
PCB-22	2120	1190			0.964	D	PCB-63	ND	1190	258		0.524	D
PCB-23	ND	1190	225		0.543	D	PCB-65	ND	1190	247		0.842	D
PCB-24/27	528	2370			0.742	J, D	PCB-66/76	5110	2370			1.31	D
PCB-25	523	1190			0.768	J, D	PCB-67	ND	1190	222		0.486	D
PCB-26	1020	1190			0.766	J, D	PCB-68	ND	1190	224		0.658	D
PCB-28	3490	1190			1.12	D	PCB-73	ND	1190	236		0.454	D
PCB-29	ND	1190	266		0.949	D	PCB-74	2510	1190			0.781	D
PCB-30	ND	1190	164		0.355	D	PCB-77	1270	1190			0.748	B, D
PCB-31	3960	1190			0.809	D	PCB-78	ND	1190	225		0.385	D
PCB-34	ND	1190	253		1.57	D	PCB-79	ND	1190		276	0.633	D
PCB-35	ND	1190	259		0.565	D	PCB-80	ND	1190	198		0.336	D
PCB-36	ND	1190	280		0.406	D	PCB-81	146	1190			0.674	J, D
PCB-37	2240	1190			0.389	D	PCB-82	2160	1190			0.981	D
PCB-38	ND	1190	266		0.528	D	PCB-83	ND	1190	451		0.440	D
PCB-39	ND	1190	286		0.461	D	PCB-84/92	6900	2370			1.01	D
PCB-40	1950	1190			0.927	D	PCB-85/116	2590	2370			1.64	D
PCB-41/64/71/72	6690	4750			1.70	D	PCB-86	ND	1190	812		1.79	D
PCB-42/59	2420	2370			0.899	D	PCB-87/117/125	5630	3560			0.880	D
PCB-43/49	4850	2370			0.879	D	PCB-88/91	1710	2370			1.25	J, 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: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data					
Name:	SoundEarth Strategies, Inc.			Matrix:	Sediment		Lab Sample:	1400668-03	Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support			Sample Size:	4.96 g		QC Batch:	B4I0107	Date Extracted:	29-Sep-2014 9:11		
Date Collected:	03-Sep-2014 13:00			% Solids:	42.5		Date Analyzed :	02-Oct-14 14:17 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	1190	542		1.22	D	PCB-136	3860	1190			0.776	D
PCB-90/101	20000	2370			1.19	D	PCB-137	ND	1190		941	0.541	D
PCB-93	ND	1190	773		1.42	D	PCB-138/163/164	30700	3560			0.809	B, D
PCB-94	ND	1190	616		0.874	D	PCB-139/149	32400	1190			1.49	B, D
PCB-95/98/102	12200	3560			1.38	D	PCB-140	ND	1190	276		1.20	D
PCB-96	ND	1190	425		0.588	D	PCB-141	6890	1190			0.678	D
PCB-97	4790	1190			0.675	D	PCB-144	1680	1190			1.38	D
PCB-99	5330	1190			0.474	D	PCB-145	ND	1190	495		1.05	D
PCB-100	ND	1190	517		0.511	D	PCB-146/165	4250	2370			0.792	D
PCB-103	ND	1190	506		0.428	D	PCB-147	ND	1190	725		1.65	D
PCB-104	ND	1190	409		0.876	D	PCB-148	ND	1190	799		1.45	D
PCB-105	5210	1190			0.462	B, D	PCB-150	ND	1190	595		0.801	D
PCB-106/118	14800	2370			0.728	D	PCB-151	8680	1190			1.16	D
PCB-107/109	1170	2370			0.631	J, D	PCB-152	ND	1190	533		0.744	D
PCB-108/112	ND	2370		652	0.844	D	PCB-153	29100	1190			0.484	B, D
PCB-110	19400	1190			0.555	D	PCB-154	753	1190			0.837	J, D
PCB-111/115	ND	2370		275	1.24	D	PCB-155	ND	1190	534		0.767	D
PCB-113	ND	1190	434		0.495	D	PCB-156	2920	1190			0.534	D
PCB-114	ND	1190	427		0.418	D	PCB-157	684	1190			0.485	J, B, D
PCB-119	460	1190			0.383	J, D	PCB-158/160	3340	2370			0.915	D
PCB-120	205	1190			0.622	J, D	PCB-159	ND	1190	413		0.578	D
PCB-121	ND	1190	403		0.978	D	PCB-166	ND	1190	387		0.425	D
PCB-122	ND	1190	494		0.619	D	PCB-167	1130	1190			0.653	J, D
PCB-123	ND	1190	441		0.494	D	PCB-168	ND	1190	357		0.502	D
PCB-124	863	1190			0.813	J, D	PCB-169	ND	1190	279		0.767	D
PCB-126	510	1190			0.543	J, B, D	PCB-170	9130	1190			0.758	D
PCB-127	ND	1190	383		0.326	D	PCB-171	2670	1190			0.372	D
PCB-128/162	3610	2370			1.08	D	PCB-172	1540	1190			0.857	D
PCB-129	1410	1190			0.567	D	PCB-173	ND	1190	349		0.507	D
PCB-130	1770	1190			0.798	D	PCB-174	11600	1190			0.797	D
PCB-131	ND	1190	569		0.731	D	PCB-175	519	1190			0.679	J, D
PCB-132/161	8690	2370			1.05	D	PCB-176	1330	1190			0.729	D
PCB-133/142	ND	2370		880	1.04	D	PCB-177	6540	1190			0.404	D
PCB-134/143	1520	2370			1.05	J, D	PCB-178	2370	1190			0.610	D
PCB-135	4460	1190			1.47	D	PCB-179	4950	1190			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: CS-CB-01-20140903-S**

**EPA Method 1668C**

Client Data				Sample Data			Laboratory Data					
Name:	SoundEarth Strategies, Inc.			Matrix:	Sediment		Lab Sample:	1400668-03	Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support			Sample Size:	4.96 g		QC Batch:	B4I0107	Date Extracted:	29-Sep-2014 9:11		
Date Collected:	03-Sep-2014 13:00			% Solids:	42.5		Date Analyzed :	02-Oct-14 14:17 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	26600	1190			0.420	D	Total octaCB	22600	1190		24400		
PCB-181	ND	1190	281		1.26	D	Total nonaCB	4500	1190				B
PCB-182/187	11900	2370			1.33	B, D	DecaCB	1600	1190				
PCB-183	6070	1190			0.638	D	Total PCB	472000	2370				B
PCB-184	ND	1190	175		0.597	D							
PCB-185	1040	1190			0.557	J, D							
PCB-186	ND	1190	197		0.421	D							
PCB-188	ND	1190	181		0.759	D							
PCB-189	ND	1190		390	0.483	D							
PCB-190	2010	1190			0.686	D							
PCB-191	ND	1190		599	0.447	D							
PCB-192	ND	1190	223		0.528	D							
PCB-193	1480	1190			0.836	D							
PCB-194	4370	1190			0.645	D							
PCB-195	1990	1190			0.722	D							
PCB-196/203	7750	2370			0.983	D							
PCB-197	413	1190			0.794	J, D							
PCB-198	417	1190			0.792	J, D							
PCB-199	6470	1190			0.615	D							
PCB-200	ND	1190		634	0.795	D							
PCB-201	911	1190			0.317	J, D							
PCB-202	ND	1190		1260	0.759	D							
PCB-204	ND	1190	354		0.543	D							
PCB-205	237	1190			0.471	J, D							
PCB-206	2930	1190			0.852	B, D							
PCB-207	398	1190			0.402	J, D							
PCB-208	1170	1190			0.441	J, D							
PCB-209	1600	1190			1.10	D							
Total monoCB	610	1190				J							
Total diCB	10900	2370		11900									
Total triCB	31900	1190		32700		B							
Total tetraCB	58400	1190		58700		B							
Total pentaCB	104000	1190		105000		B							
Total hexaCB	148000	1190		150000		B							
Total heptaCB	89800	1190		90800		B							

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: CS-CB-01-20140903-S**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>					
Name:	SoundEarth Strategies, Inc.	Matrix:	Sediment	Lab Sample:	1400668-03	Date Received:	13-Sep-2014 9:58		
Project:	NPDES Sampling Support	Sample Size:	4.96 g	QC Batch:	B4I0107	Date Extracted:	29-Sep-2014 9:11		
Date Collected:	03-Sep-2014 13:00	% Solids:	42.5	Date Analyzed :	02-Oct-14 14:17	Column:	ZB-1	Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	96.5	5 -145	D	13C-PCB-170	113	10 -145	D
13C-PCB-3	94.8	5 -145	D	13C-PCB-180	99.5	10 -145	D
13C-PCB-4	96.9	5 -145	D	13C-PCB-188	97.0	10 -145	D
13C-PCB-11	96.9	5 -145	D	13C-PCB-189	102	10 -145	D
13C-PCB-9	95.9	5 -145	D	13C-PCB-194	106	10 -145	D
13C-PCB-19	88.3	5 -145	D	13C-PCB-202	89.9	10 -145	D
13C-PCB-28	116	5 -145	D	13C-PCB-206	119	10 -145	D
13C-PCB-32	90.2	5 -145	D	13C-PCB-208	113	10 -145	D
13C-PCB-37	141	5 -145	D	13C-PCB-209	125	10 -145	D
13C-PCB-47	89.2	5 -145	D	CRS 13C-PCB-79	96.4	10 -145	D
13C-PCB-52	90.1	5 -145	D	13C-PCB-178	106	10 -145	D
13C-PCB-54	84.0	5 -145	D				
13C-PCB-70	92.8	5 -145	D				
13C-PCB-77	94.7	10 -145	D				
13C-PCB-80	95.3	10 -145	D				
13C-PCB-81	93.2	10 -145	D				
13C-PCB-95	99.6	10 -145	D				
13C-PCB-97	98.0	10 -145	D				
13C-PCB-101	95.1	10 -145	D				
13C-PCB-104	92.3	10 -145	D				
13C-PCB-105	86.1	10 -145	D				
13C-PCB-114	85.8	10 -145	D				
13C-PCB-118	101	10 -145	D				
13C-PCB-123	106	10 -145	D				
13C-PCB-126	81.3	10 -145	D				
13C-PCB-127	85.3	10 -145	D				
13C-PCB-138	104	10 -145	D				
13C-PCB-141	104	10 -145	D				
13C-PCB-153	100	10 -145	D				
13C-PCB-155	75.0	10 -145	I, D				
13C-PCB-156	109	10 -145	D				
13C-PCB-157	108	10 -145	D				
13C-PCB-159	106	10 -145	D				
13C-PCB-167	106	10 -145	D				
13C-PCB-169	97.1	10 -145	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.

## DATA QUALIFIERS & ABBREVIATIONS

<b>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The amount detected is above the High Calibration Limit.</b>
<b>H</b>	<b>Recovery was outside laboratory acceptance limits.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Low Calibration Limit.</b>
<b>P</b>	<b>The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>DL</b>	<b>Sample-specific estimated detection limit</b>
<b>MDL</b>	<b>Method Detection Limit as determined by 40 CFR 136, Appendix B.</b>
<b>EMPC</b>	<b>Estimated Maximum Possible Concentration</b>
<b>M</b>	<b>Estimated Maximum Possible Concentration (CA Region 2)</b>
<b>NA</b>	<b>Not applicable</b>
<b>RL</b>	<b>Reporting Limit – concentrations that correspond to low calibration point</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>

**Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.**

**CERTIFICATIONS**

<b>Accrediting Authority</b>	<b>Certificate Number</b>
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**

Laboratory Project ID: 1400668 Storage Secured  Yes  No

Storage ID: WR-9 Temp: 4.7 °C

Project I.D.: NPDES Sampling Support P.O.#: 0890-001 Sampler: (CW) Corey Wilson  
(Name)

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

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

Relinquished by: (Signature and Printed Name) Corey Wilson Date: 9-3-14 Time: 1716 Received by: (Signature and Printed Name) Man Cannon / CNANCANON Date: 9/3/2014 Time: 1812

Relinquished by: (Signature and Printed Name) Man Cannon / CNANCANON Date: 9-3-2014 Time: 1812 Received by: (Signature and Printed Name) Dan Lipinski Date: 9/3/14 Time: 1812

See "Sample Log-in Checklist" for additional sample information Man Cannon 9/13/14 09:58

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.: \_\_\_\_\_

ATTN: \_\_\_\_\_

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	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	EPA1613	EPA8290	EPA8280	EPA1668	EPA1614	CARB429	
CS-TS-01-20140903-W	9/3/14	1200	Cleanscapes / Water	4	A	AQ	✓						✓	✓											
CS-SP-01-20140903-W	9/3/14	1415	Cleanscapes / Water	3	A	AQ	✓						✓	✓											
CS-CB-01-20140903-W	9/3/14	1300	Cleanscapes / Sediment	1	G	SD	✓						✓	✓											

Special Instructions/Comments: \_\_\_\_\_

SEND DOCUMENTATION AND RESULTS TO:

Name: Dan Lipinski  
Company: Sound Earth Strategies  
Address: 2811 Fairview Ave East Suite 2000  
City: Seattle State: WA Zip: 98102  
Phone: 206-660-6845 Fax: 206-306-1907  
Email: d.lipinski@soundearthinc.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 #: 1400668 TAT Std

Samples Arrival:	Date/Time 9/13/14 09:58	Initials: WZ	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time 9/15/14 10:12	Initials: JBB	Location: WR-2
			Shelf/Rack: A3/F3
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 9.6 (uncorrected)	Time: 10:10		Thermometer ID: IR-2
Temp °C: 4.7 (corrected)			

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 8033 2339 3407	✓		
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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented?	NA	COC	Sample Container	None
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain	<input checked="" type="checkbox"/> Return
				Dispose

Comments:

CS-SP-01-20140903-W      A, B, C containers  
 CS-TS-01-20140903-W      A, B, C, D containers  
 CS-CB-01-20140903-S      1 container

## **EXTRACTION INFORMATION**

Process Sheet  
Workorder: **1400668**

Prep Expiration: 09/03/2015  
Client: SoundEarth Strategies, Inc.

Workorder Due: **04-Oct-14 00:00**

TAT: 21

Method: **1613 Full List**  
Matrix: **Aqueous**  
Client Matrix: Aqueous  
Also run: **Percent Solids**

Prep Batch: B4I0066

Prep Data Entered: 9/22/14 es  
Date and Initials

Initial Sequence: S4I0040

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400668-01 "b"	<input checked="" type="checkbox"/>	CS-TS-01-20140903-W	13-Sep-14 09:58	WR-2 A-3	
1400668-02 "a"	<input checked="" type="checkbox"/>	CS-SP-01-20140903-W	13-Sep-14 09:58	WR-2 A-3	

Vista PM: Martha Maier

Vial Box ID: Camping

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

**Percent Moisture/ Percent Solids**

D2216-90      BATCH ID      B4I0064

**Analyst:** B. Smith

**Test Code:** %Moist/%Solids

**Analyte:**

Dried at 110°C+/-5°C

**Units:** %

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:		BMS 9/17/14		BMS 9/20/14		Dry Sample Weight (g)	%Solids RawVal	BMS 9/17/14		
				Pan Tare Wt. (gms)		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	pH Before	pH After			Acid Added	Cl-	
	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	



D2216-90

BATCH ID

B4I0064

<b>Analyst:</b> B. Smith	<b>Test Code:</b> %Moist/%Solids
<b>Analyte:</b> Dried at 110°C+/-5°C	<b>Units:</b> %

Date/Time IN: Date/Time OUT  
 9/17/14 01:39 9/20/14 15:36

INST HRMS-4

Pan #	SampleID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	%Solids RawVal	BMS 9/17/14		
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)			pH Before	pH After	Acid Added
	1400659-01RE1		Sample	1.23	22.49	1.24		7	MANNA	e
	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		3		
	1400668-02		Sample	1.23	19.74	1.23		5		

PREPARATION BENCH SHEET

B4I0066

Chemist: A. Clark

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

Matrix: Aqueous  
Method: 1613 Full List  
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	C4I0024	C4I0024	C4I0025	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)	BMS 9/17/14	BMS 9/20/14	MA	BMS 9/20/14	BMS 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	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>BMS 9/17/14</u>
PCDD/F <u>13TA01 10µl</u>	PCDD/F <u>13L1101 10µl</u>	PCDD/F <u>13J0103 10µl</u>	PCDD/F <u>13J070 3,10µl</u>	Start Date/Time	SOLV: <u>Tol</u>	Chemist/Date:
PCB	PCB	PCB	PCB	<u>9/19/14 18:40</u>	Other: <u>SPE</u>	Check In: <u>Empty ↓</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>20µl</u>	Chemist/Date:
				<u>9/20/14 10:41</u>	<u>C4</u>	Balance ID: <u>HRMS-4</u>

Comments:

Process Sheet  
Workorder: **1400668**

Prep Expiration: 09/03/2015  
Client: SoundEarth Strategies, Inc.

Workorder Due: **04-Oct-14 00:00**

TAT: 21

Method: **1613 Full List**  
Matrix: **Solid**

Prep Batch: B4I0053

Client Matrix: Sediment

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

Also run: **Percent Solids**

Initial Sequence: S4E0031

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400668-03	<input checked="" type="checkbox"/>	CS-CB-01-20140903-S	13-Sep-14 09:58	WR-2 F-3	

1

Vista PM: Martha Maier

Vial Box ID: Atreyu

Sample Reconciled By: S. Roughton 9/15/2014

Solids estimate

Batch: B410055

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400665-01	Percent Solids	64.49		10.00	15.51
1400665-02	Percent Solids	34.92		10.00	28.64
1400665-03	Percent Solids	35.63		10.00	28.06
1400668-03	Percent Solids	42.46		10.00	23.55

**Percent Moisture/ Percent Solids**

D2216-90

BATCH ID

B4I0055

**Analyst:** V. Ordsmith

**Test Code:** %Moist/%Solids

**Analyte:**

**Units:** %

Dried at 110°C+/-5°C

Date/Time IN:      Date/Time OUT

9/15/14 16:50      9/16/14 13:55

HRMS-2

B		C	D	E		F	G	H	K	M	N	O	P
Pan #	SampID	Source ID	SampType	Initial and Date:		VO 9/15/2014	CG 9/16/14	Dry Sample Weight (g)	%Solids RawVal	N/A			Cl-
				Pan Tare WL (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	pH Before			pH After	Acid Added		
	1400665-01		Sample	1.3100	17.0800	11.4800	10.1700	64.49					
	1400665-02		Sample	1.2900	13.6900	5.6200	4.3300	34.92					
	1400665-03		Sample	1.3000	16.2300	6.6200	5.3200	35.63					
	1400668-03		Sample	1.3000	16.4900	7.7500	6.4500	42.46					

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	C4I0069	C4I0069	C4I0070	RS CHEM/WIT DATE
						AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	B4I0053-BLK1 (B)	10.00	(10.00)	M.T 9/16/14	ES SK 9/17/14	ES 9/17/14	ES 9/17/14	ES 9/17/14	ES 9/17/14	ES SK 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 (B)	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 - ES 9/17/14  
 (B) Second acid partition performed. ES 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 (SDS)	Check Out: Chemist/Date: <u>M.T 9/16/14</u>
PCDD/F <u>1350101, 10ml</u>	PCDD/F <u>1361101, 10ml</u>	PCDD/F <u>1350103, 10ml</u>	PCDD/F <u>1350703, 10ml</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>20ml</u>	
				<u>8:07</u>	<u>C14</u>	

Comments:

Process Sheet  
Workorder: **1400668**

Prep Expiration: 09/03/2015  
Client: SoundEarth Strategies, Inc.

Workorder Due: 04-Oct-14 00:00

TAT: 21

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

Prep Batch: B4I0067

Prep Data Entered: M. T 9/25/14  
Date and Initials

Initial Sequence: S4I0047E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400668-01	A <input checked="" type="checkbox"/>	CS-TS-01-20140903-W	13-Sep-14 09:58	WR-2 A-3	
1400668-02	B <input checked="" type="checkbox"/>	CS-SP-01-20140903-W	13-Sep-14 09:58	WR-2 A-3	

Vista PM: Martha Maier

Vial Box ID: Snatch

Sample Reconciled By: S. Roughton 9/23/2014

**Analyst:** S.Roughton

**Test Code:** %Moist/%Solids

**Analyte:**

Dried at 110°C+/-5°C

**Units:** %

Date/Time IN: Date/Time OUT

9/23/14 9:17 9/25/14 8:30

INST HRMS-4

Pan #	SampID	Source ID	SampType	Intial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	SR 9/23/2014			CI-
				SR 9/23/2014	MJT 9/25/2014				Wet Pan and Sample Weight (g)	pH Before	pH After	
	1400668-01RE1		Sample	1.2300	20.6100	1.2300	0.0000	0.00	5	2	10	0
	1400668-02RE1		Sample	1.2600	17.2700	1.2600	0.0000	0.00	5	2	10	0
	B4I0067-MB		NA	NA	NA	NA	NA	NA	5	2	10	0
	B4I0067-OPR		NA	NA	NA	NA	NA	NA	5	2	10	0



Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B4I0068

Analyst: S. Roughton

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C +/- 5°C

Date/Time IN: 9/23/14 09:17 MT  
Date/Time OUT: ~~9/23/14~~  
9/25/14 8:30

INSTR H2MS-4

B		C	D	E		F	G	H	K	M	N	O	P
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	pH Before	pH After	Acid Added	Cl-
				Pan Tare Wt. (gms)	Date								
	1400668-01RE1		Sample	1.23	SR 9/23/14	20.61	MT 9/25/14	1.23		5	2	10	0
	1400668-02RE1		Sample	1.26		17.27		1.26		5	2	10	0
	B4I0067 MB									5	2	10	0
	B4I0067 OPR									5	2	10	0

ⓐ Acid added in drops SR 9/23/14

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1668C Full List

B4I0067

Chemist: S. Roughton

Prep Date/Time: ~~17-Sep-14~~ 09:01

9-23-14 M.T

Prepared using: HRMS - Separatory Funnel

C	VISTA Sample ID	Bottle + Sample /mL	Bottle Only /mL	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	NA	C4I0101	NA	NA	RS CHEM/WIT DATE
<input type="checkbox"/>	B4I0067-BLK1	N/A	N/A	(1.00)	SRB 9/23/14	M.T 9/24/14	NA	M.T 9/24/14	NA	NA	M.T 9/24/14
<input type="checkbox"/>	B4I0067-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400668-01	1456.69	503.10	0.95359	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400668-02	1462.52	503.17	0.95935	↓	↓	↓	↓	↓	↓	↓

IS Name	NS Name	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: SR 9/23/14
PCB 14A3001, 10ml	PCB 13F2503, 10ml	PCB 14A3002, 10ml	PCB 14A3003, 10ml	N/A	Other: N/A	Check In: ↓ Empty
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) 20ml	Balance ID: HRMS-4
				N/A	Cg	

Comments:

RX

Process Sheet

Workorder: **1400668**

Prep Expiration: 09/03/2015

Client: SoundEarth Strategies, Inc.

Workorder Due: **04-Oct-14 00:00**

TAT: 21

Method: **1668C Full List**

Matrix: **Solid**

Client Matrix: Sediment

Also run: **Percent Solids**

Prep Batch: B410107

Prep Data Entered: 10/1/14 ED  
Date and Initials

Initial Sequence: 5410053E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400668-03	<input checked="" type="checkbox"/>	CS-CB-01-20140903-S	13-Sep-14 09:58	WR-2 F-3	

**WO Comments: 2 gms, 5X spike, 100 uL FV, 1:10, 1:20 dil**

Vista PM: Martha Maier

Vial Box ID: Saf

Sample Reconciled By: S. Roughton 9/29/2014

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B4I0055

Analyst: V. Ordsmith

Test Code: %Moist/%Solids

Analyte:

Dried at 110°C+/-5°C

Units: %

Date/Time IN: Date/Time OUT

9/15/14 16:50 9/16/14 13:55

HRMS-2

Pan #	SampID	Source ID	SampType	Initial and Date:		G		Dry Sample Weight (g)	%Solids RawVal	N/A		
				Pan Tare Wt. (gms)	VO 9/15/2014	Wet Pan and Sample Weight (g)	CG 9/16/14			Dry Pan and Sample Weight (g)	pH Before	pH After
	1400665-01		Sample	1.3100	17.0800	11.4800	10.1700	64.49				
	1400665-02		Sample	1.2900	13.6900	5.6200	4.3300	34.92				
	1400665-03		Sample	1.3000	16.2300	6.6200	5.3200	35.63				
	1400668-03		Sample	1.3000	16.4900	7.7500	6.4500	42.46				

\*Solids estimate

Batch: B410055

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400665-01	Percent Solids	64.49		2.00	3.10
1400665-02	Percent Solids	34.92		2.00	5.73
1400665-03	Percent Solids	35.63		2.00	5.61
1400668-03	Percent Solids	42.46		2.00	4.71

PREPARATION BENCH SHEET

Matrix: Solid

B4I0107

Chemist: S. Roughton

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 29-Sep-14 09:11

C4J50011  
ES 10/1/14

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C4J50010 AP CHEM/DATE	<del>N/A</del> ABSG CHEM/DATE	N/A AA CHEM/DATE	N/A Florisil CHEM/DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B4I0107-BLK1	N/A	(2.00)	SR <u>(N/A)</u> 9/29/14	ES <u>9/29/14</u>	ES 10/1/14	ES 10/1/14	N/A	N/A	ES <u>9/29/14</u>
<input type="checkbox"/>	B4I0107-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400668-03RE2	4.71	4.96	↓	↓	↓	↓	↓	↓	↓

- Ⓐ Dilutions of 1:10 & 1:20 made per request. ES 10/1/14
- Ⓑ Cloudy at F.V. ES 10/1/14
- Ⓒ 1:5 Dilution made per request. ES 10/1/14.
- Ⓓ Final volume of ~125 µL. ES 10/1/14.

IS Name PCDD/F PCB <u>14D2901, 50µL</u> PAH	NS Name PCDD/F PCB <u>14F1301, 50µL</u> PAH	PS CRS Name PCDD/F PCB <u>14D2903, 50µL</u> PAH	RS Name PCDD/F PCB <u>14D2904, 50µL</u> PAH	Cycle Time Start Date/Time 9/29/14 1530 Stop Date/Time 9/30/14 0747	APP: SEFUN SOX <u>(SDS)</u> SOLV: <u>Tol</u> Other <u>N/A</u> Final Volume(s) <u>100ml</u> <u>C9</u>	Check Out: Chemist/Date: <u>SR 9/29/14</u> Check In: Chemist/Date: <u>↓</u> Balance ID: <u>HRMS-2</u>
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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 $\eta$	*	*		681	2.5	1.20	Total Tetra-Dioxins	*	*		681	1.20
1,2,3,7,8-PeCDD	*	* n	0.84	NotF $\eta$	*	*		856	2.5	1.37	Total Penta-Dioxins	*	*		856	1.37
1,2,3,4,7,8-HxCDD	*	* n	1.05	NotF $\eta$	*	*		325	2.5	1.05	Total Hexa-Dioxins	*	*		547	1.82
1,2,3,6,7,8-HxCDD	*	* n	1.04	NotF $\eta$	*	*		325	2.5	1.11	Total Hepta-Dioxins	*	*		639	2.29
1,2,3,7,8,9-HxCDD	*	* n	0.90	NotF $\eta$	*	*		325	2.5	1.08	Total Tetra-Furans	*	*		599	0.950
1,2,3,4,6,7,8-HpCDD	*	* n	1.01	NotF $\eta$	*	*		639	2.5	2.29	Total Penta-Furans	0.0000	0.0000		859	1.50
OCDD	*	* n	1.04	NotF $\eta$	*	*		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 $\eta$	*	*		599	2.5	0.950						
1,2,3,7,8-PeCDF	*	* n	0.97	NotF $\eta$	*	*		446	2.5	0.768						
2,3,4,7,8-PeCDF	*	* n	0.94	NotF $\eta$	*	*		446	2.5	0.793						
1,2,3,4,7,8-HxCDF	*	* n	1.32	NotF $\eta$	*	*		576	2.5	0.690						
1,2,3,6,7,8-HxCDF	*	* n	1.18	NotF $\eta$	*	*		576	2.5	0.710						
2,3,4,6,7,8-HxCDF	*	* n	1.23	NotF $\eta$	*	*		300	2.5	0.438						
1,2,3,7,8,9-HxCDF	*	* n	1.13	NotF $\eta$	*	*		300	2.5	0.634						
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	NotF $\eta$	*	*		792	2.5	1.54						
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	NotF $\eta$	*	*		391	2.5	0.755						
OCDF	*	* n	1.05	NotF $\eta$	*	*		583	2.5	2.48						

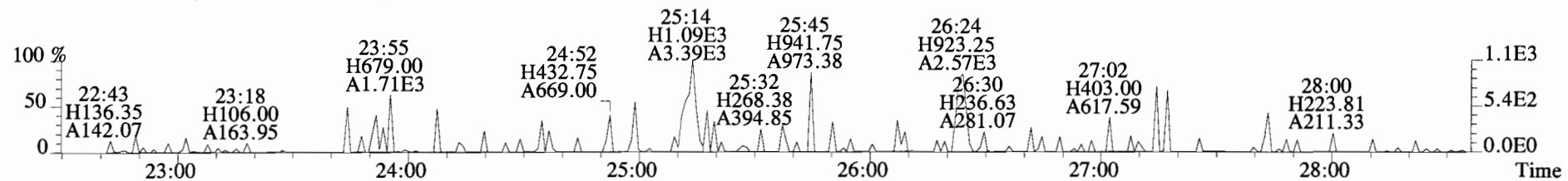
											Rec	Qual
IS	13C-2,3,7,8-TCDD	1.76e+07	0.78 y	1.06	27:10	1.021	1667.3				83.4	
IS	13C-1,2,3,7,8-PeCDD	1.81e+07	0.63 y	1.08	31:37	1.188	1683.3				84.2	
IS	13C-1,2,3,4,7,8-HxCDD	1.24e+07	1.26 y	0.74	34:58	1.014	1669.3				83.5	
IS	13C-1,2,3,6,7,8-HxCDD	1.21e+07	1.25 y	0.75	35:05	1.017	1622.2				81.1	
IS	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					

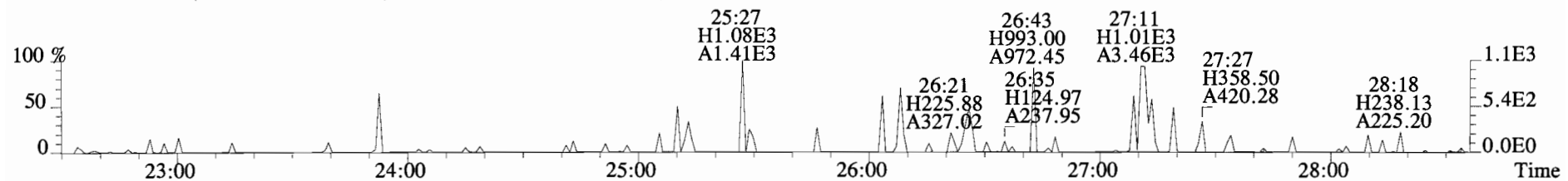
Integrations  
by  
Analyst: ms  
Date: 9/23/14  
Reviewed  
by  
Analyst: [Signature]  
Date: 9/23/14



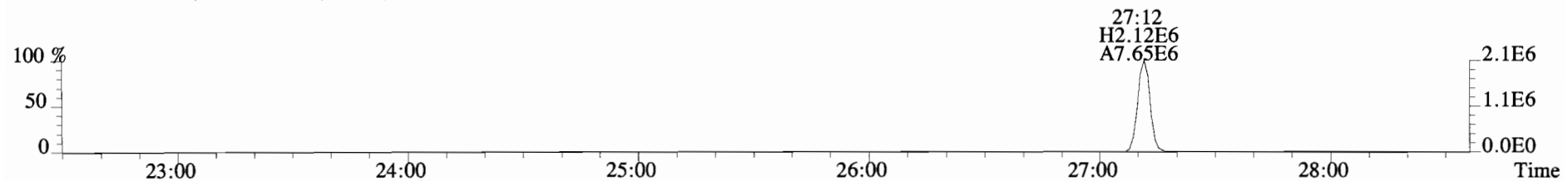
File:140922D1 #1-551 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



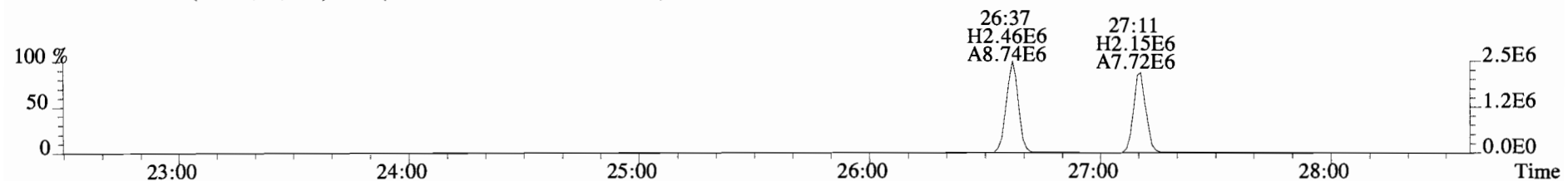
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



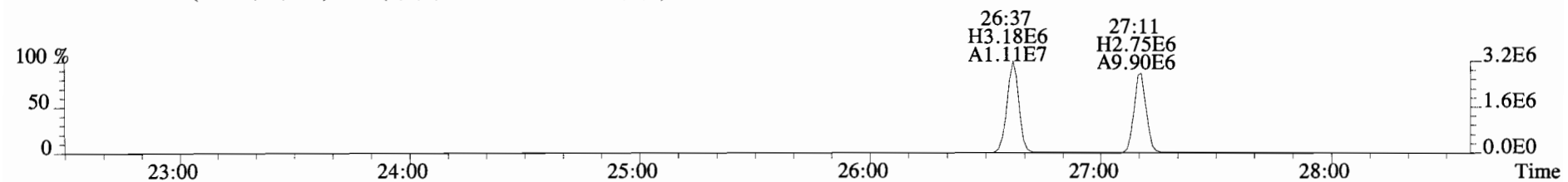
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



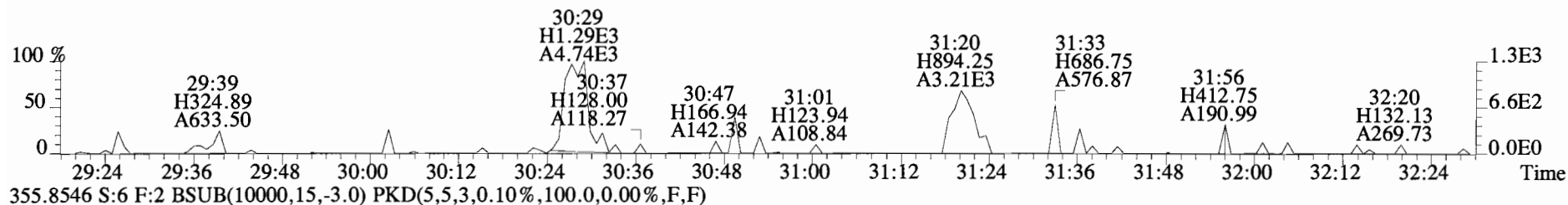
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



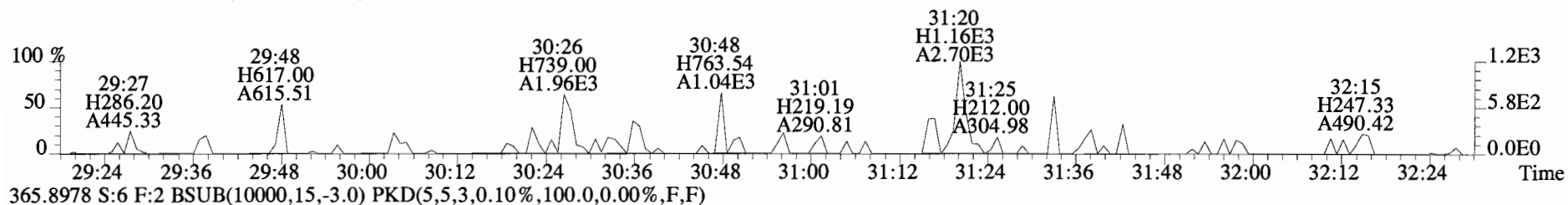
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



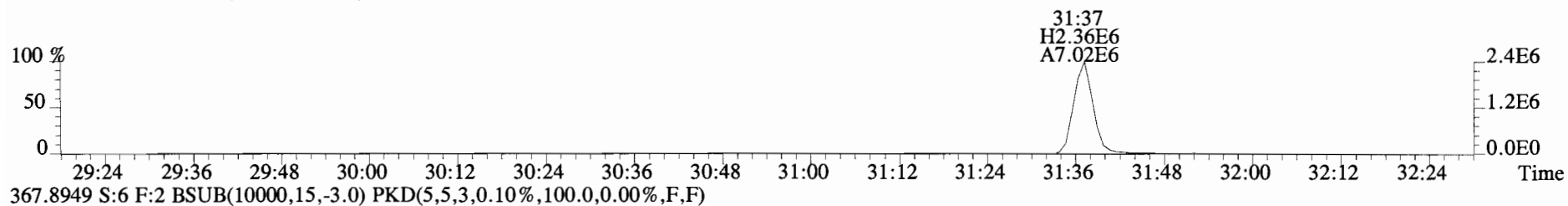
File:140922D1 #1-256 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



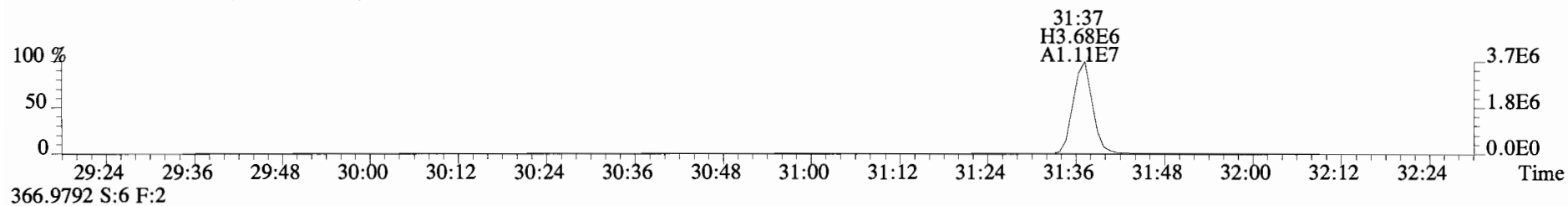
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



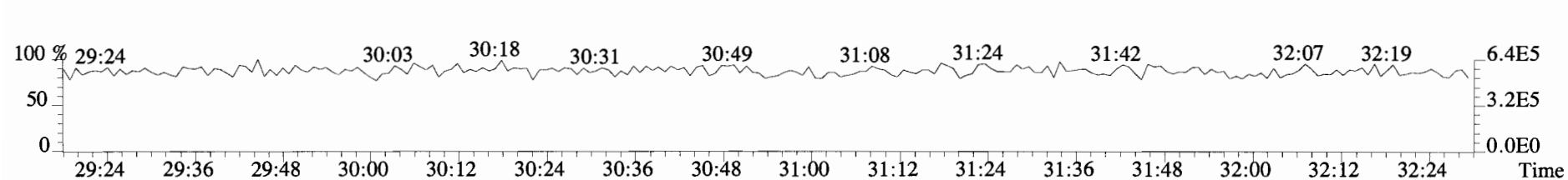
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



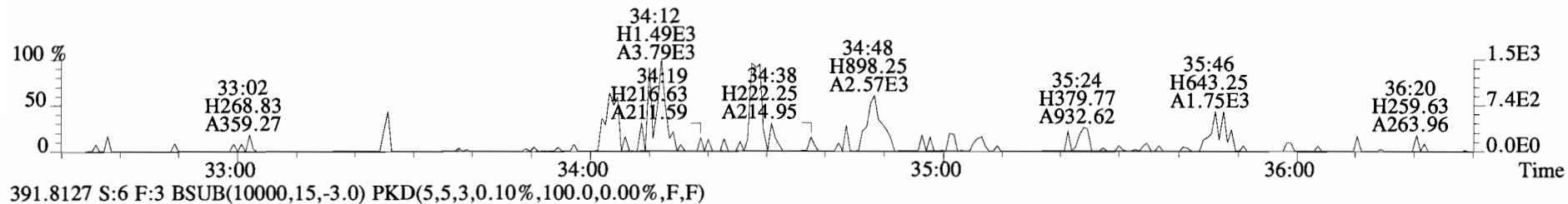
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



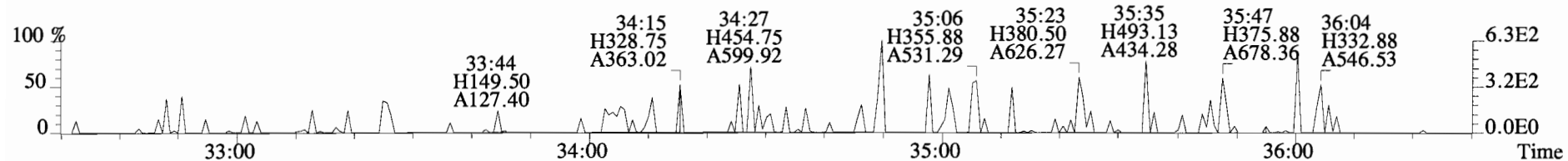
366.9792 S:6 F:2



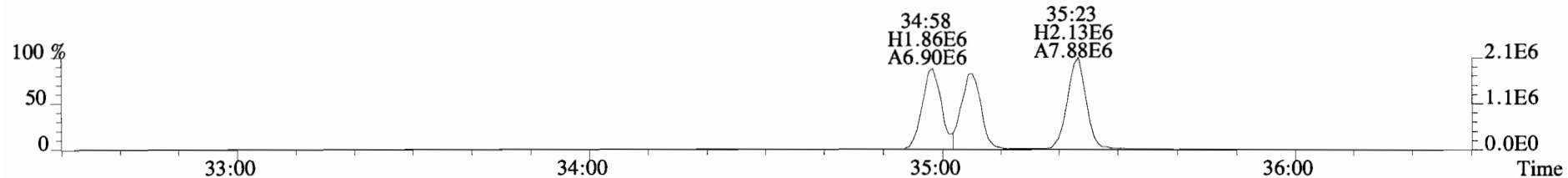
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



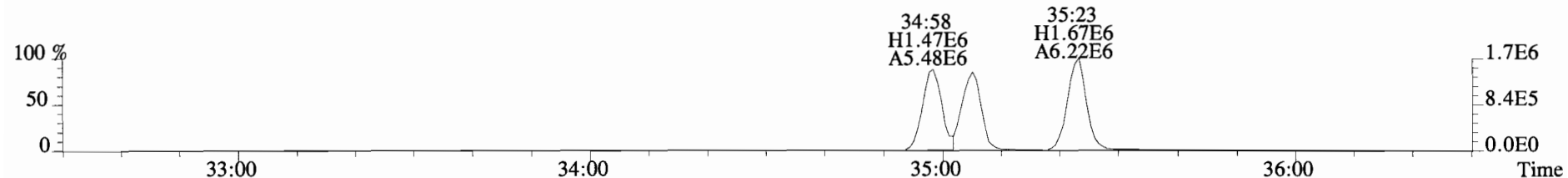
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



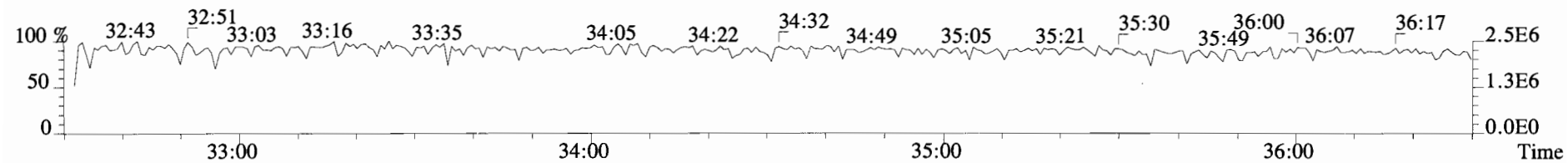
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



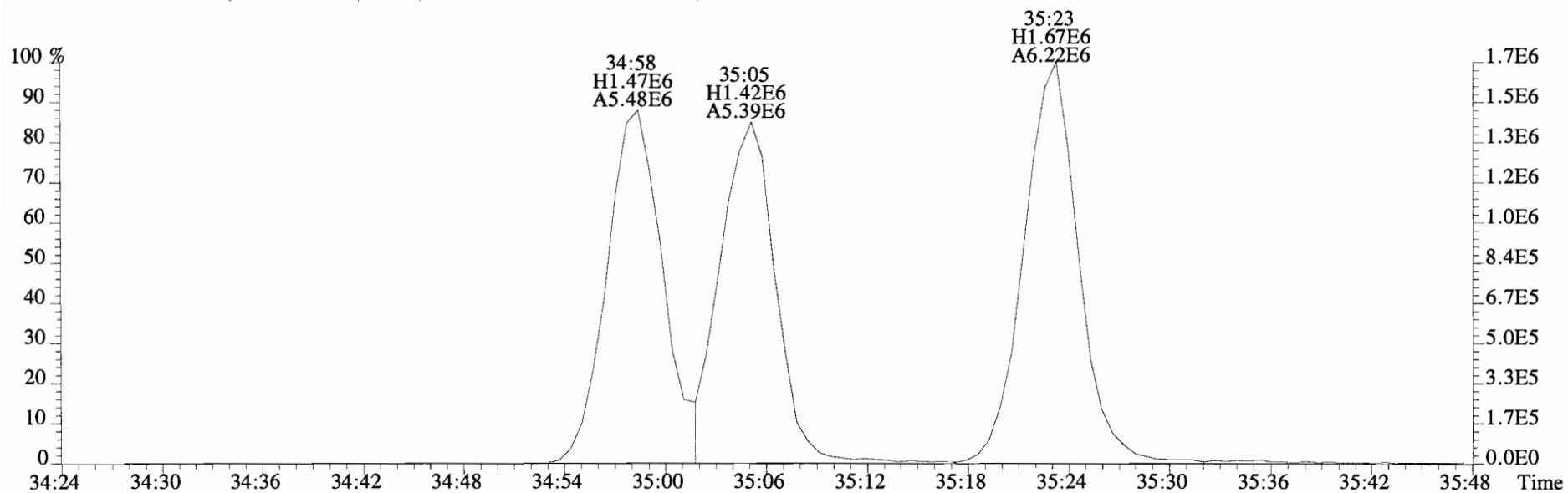
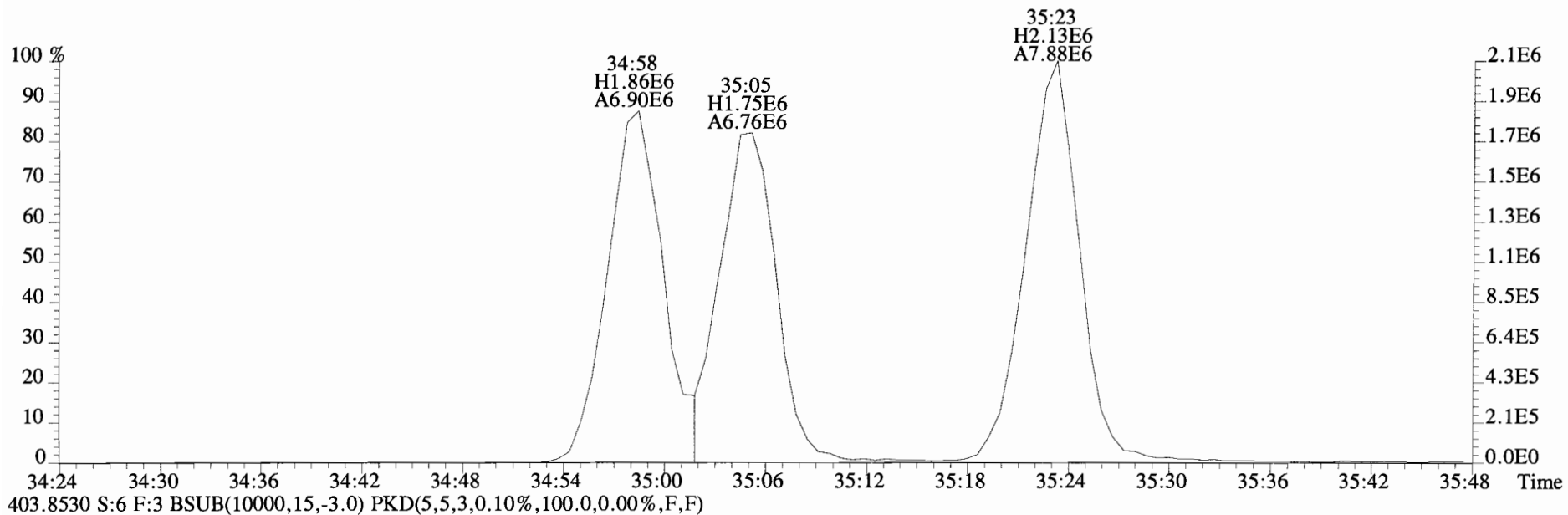
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



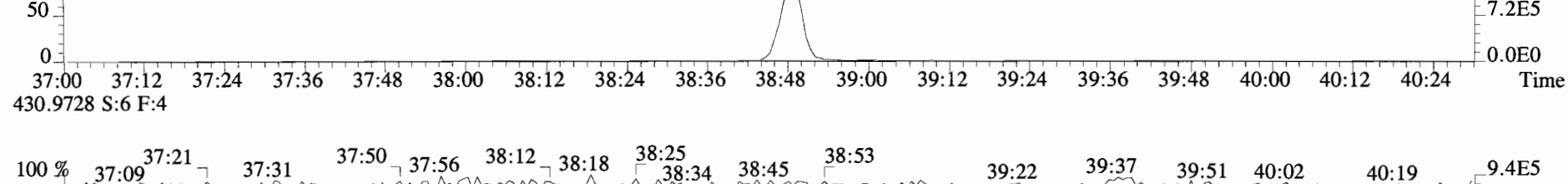
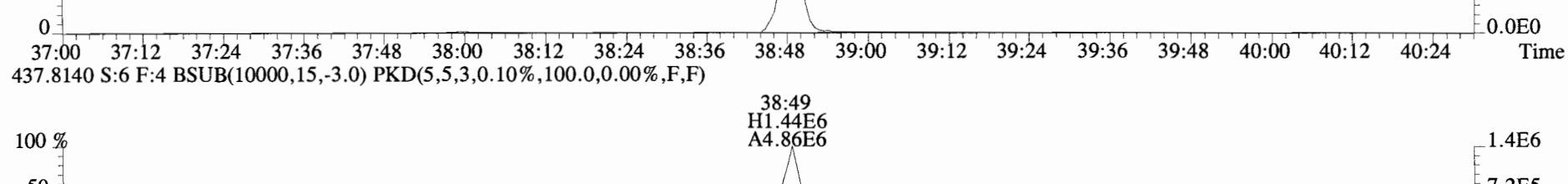
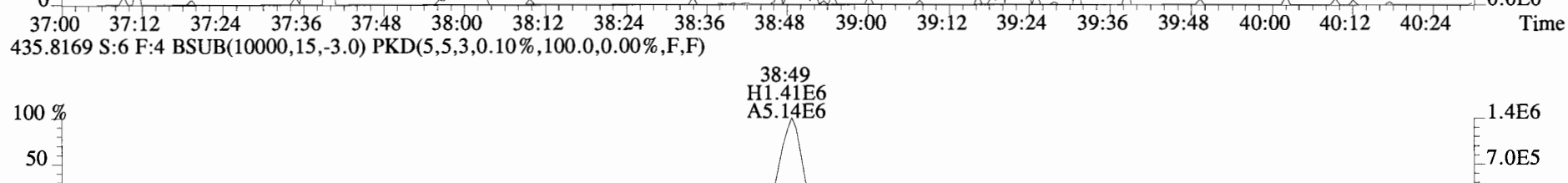
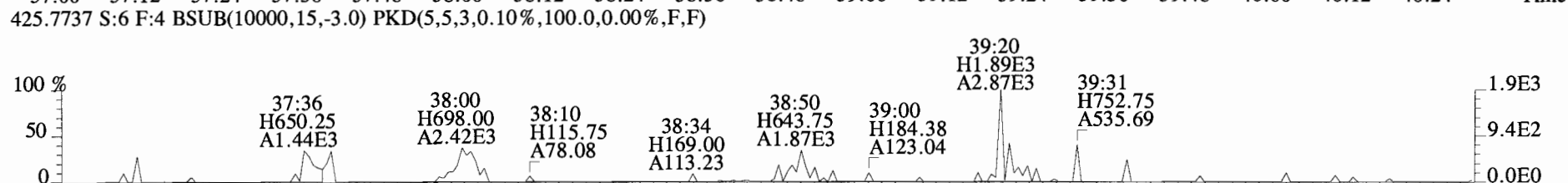
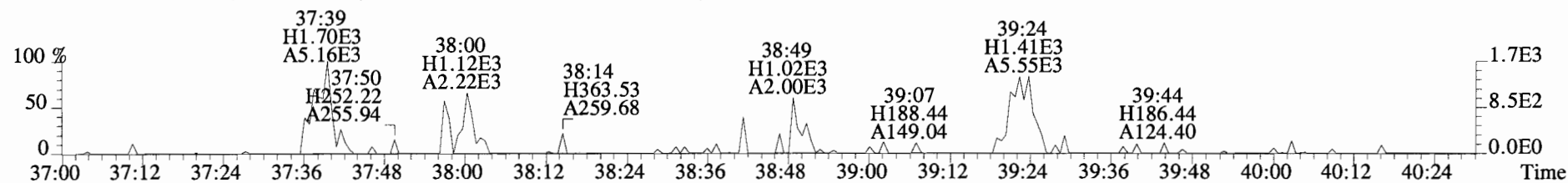
380.9760 S:6 F:3



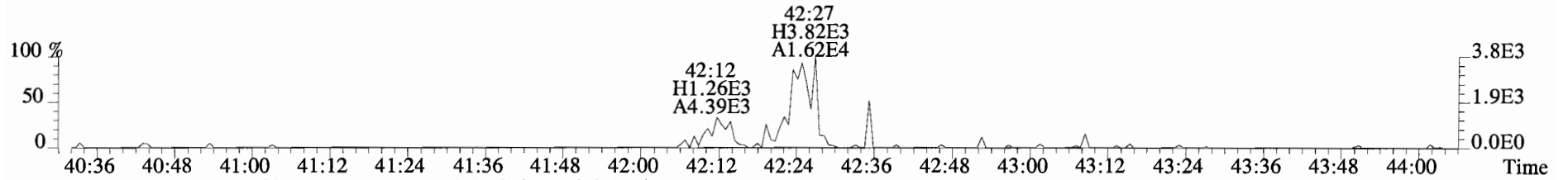
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



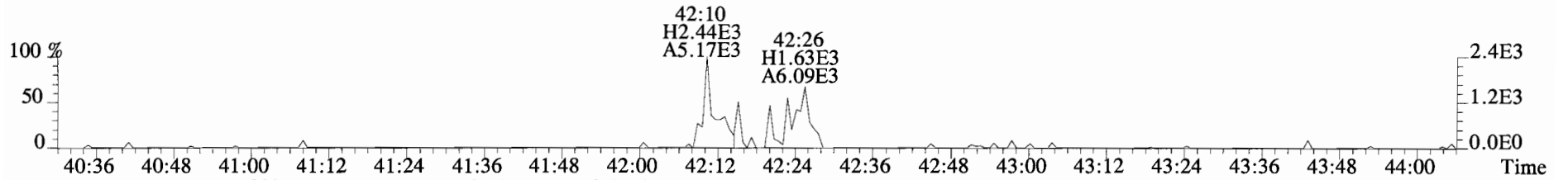
File:140922D1 #1-326 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



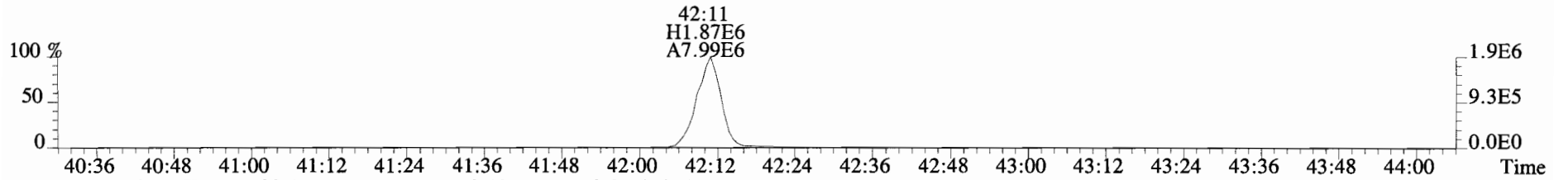
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Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



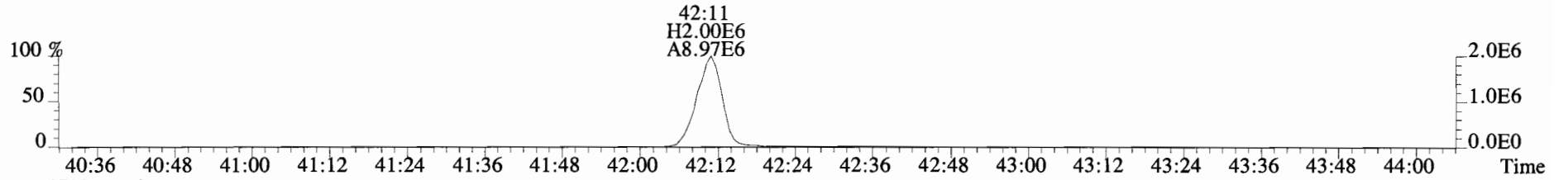
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



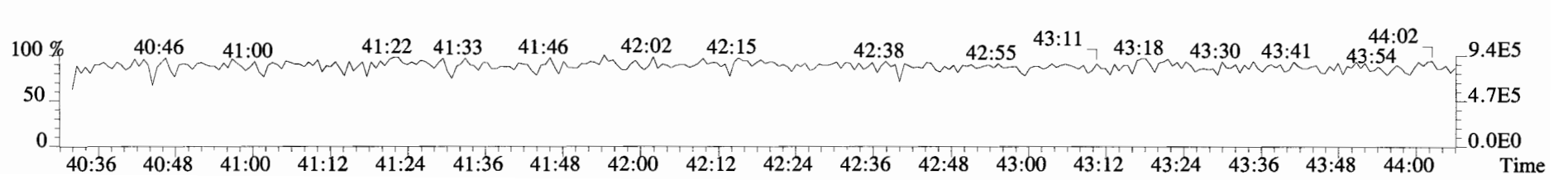
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



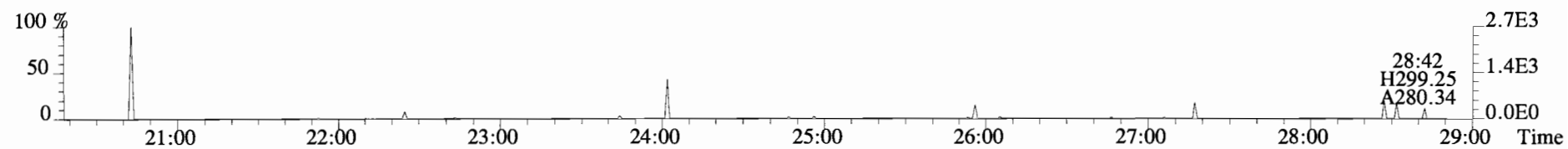
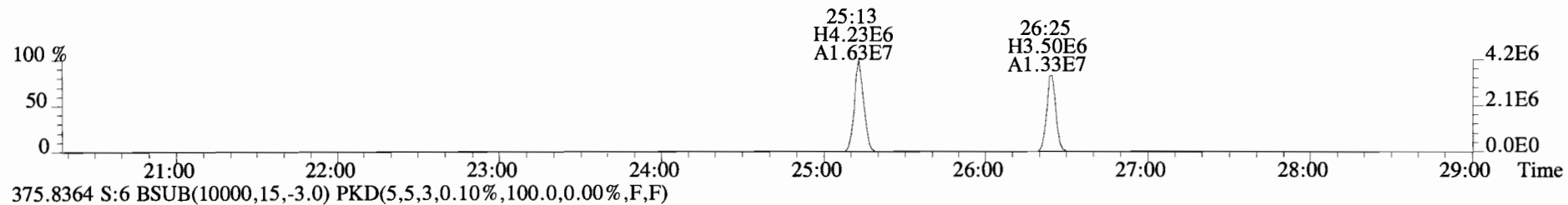
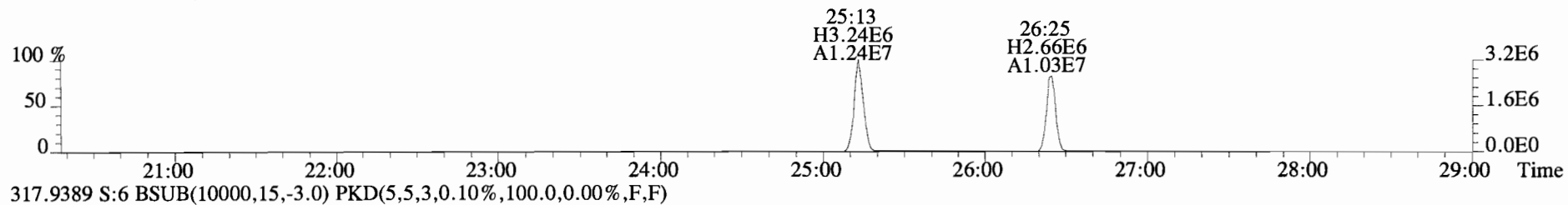
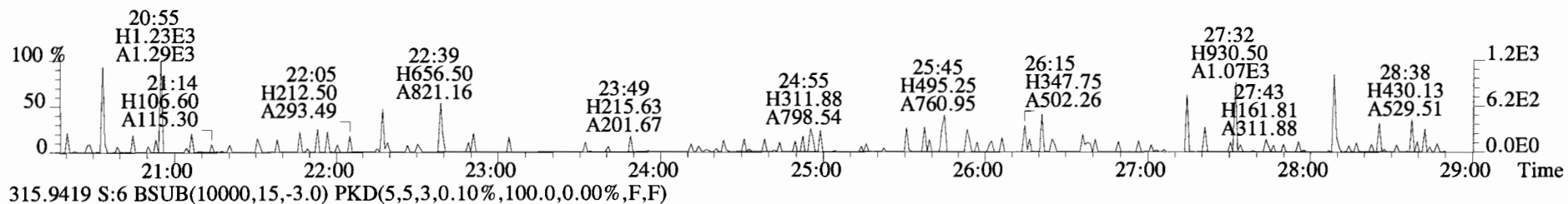
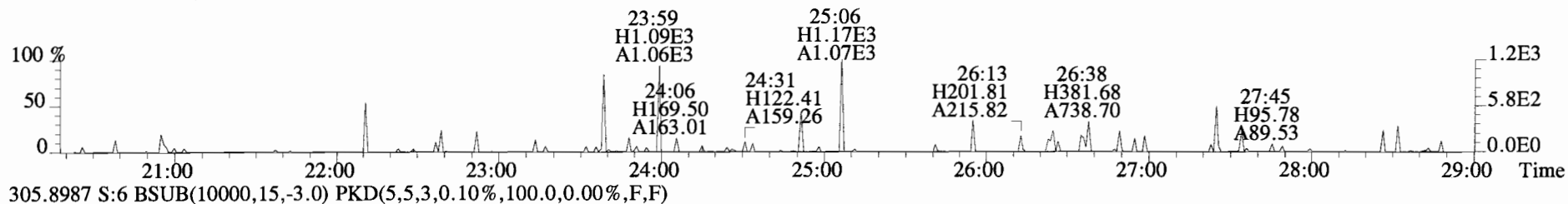
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



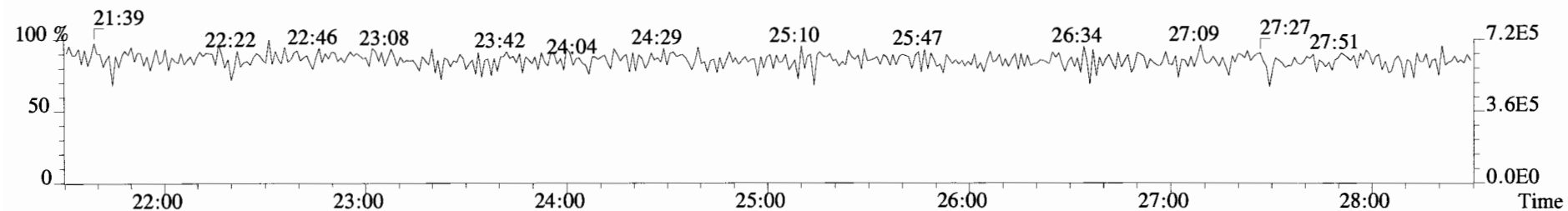
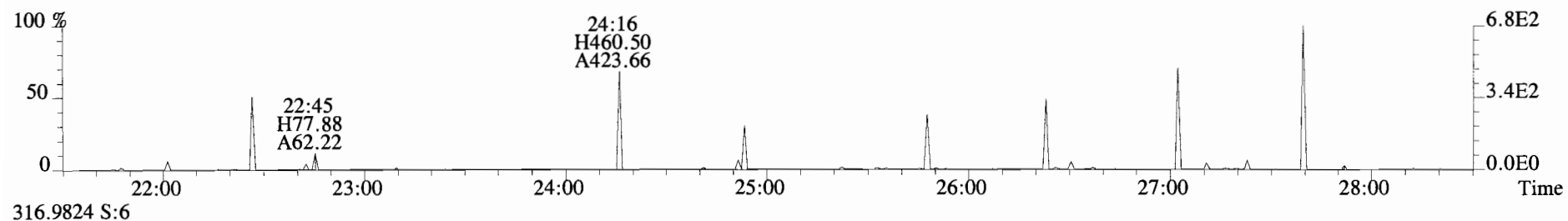
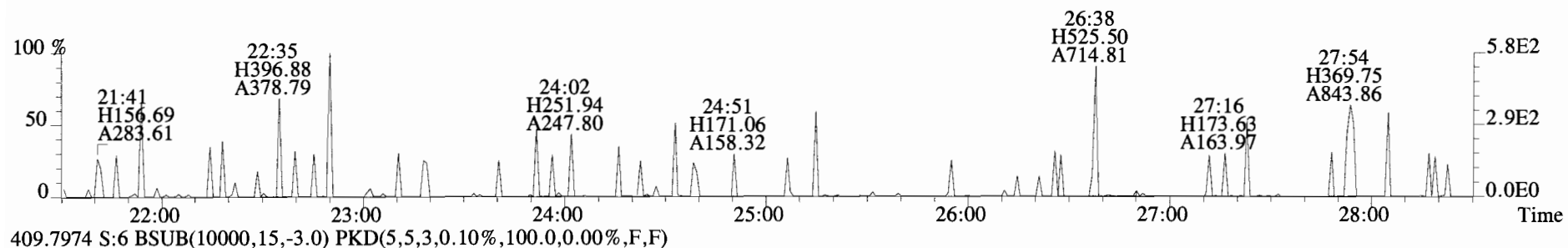
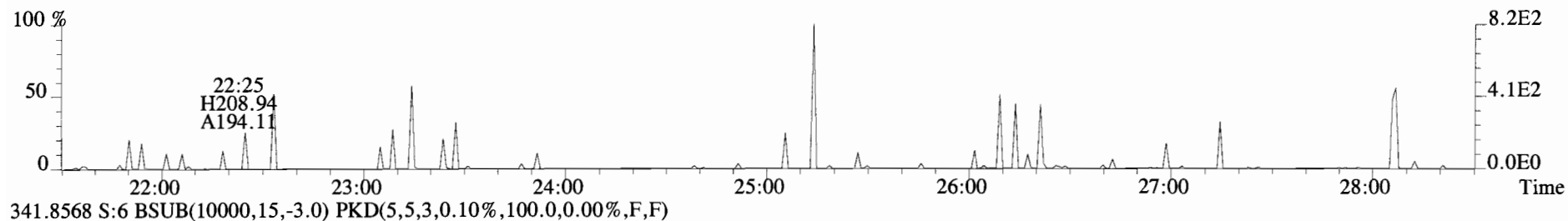
454.9728 S:6 F:5



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)

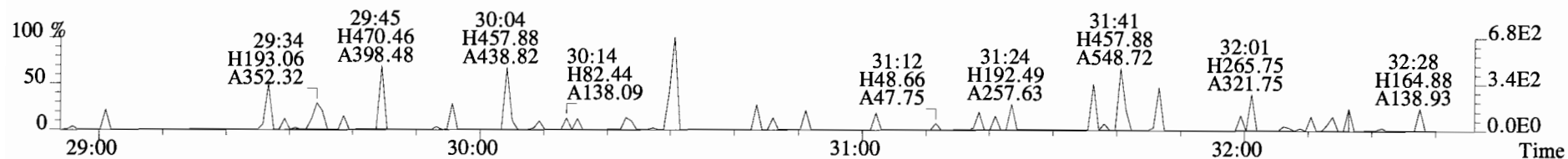


File:140922D1 #1-551 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

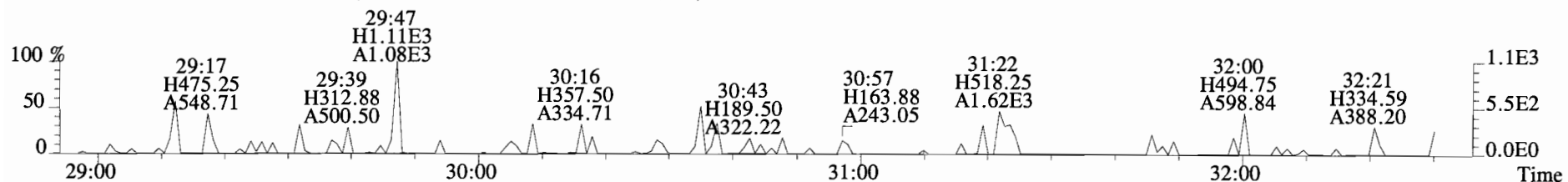




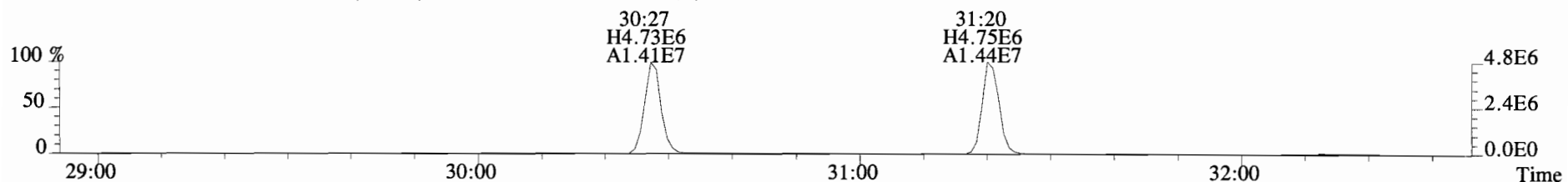
File:140922D1 #1-256 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



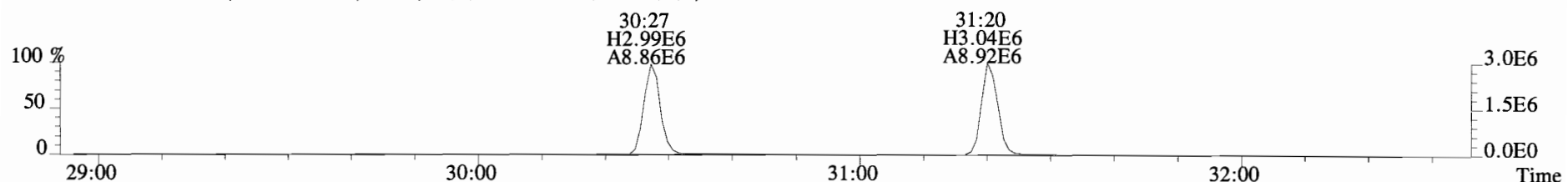
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



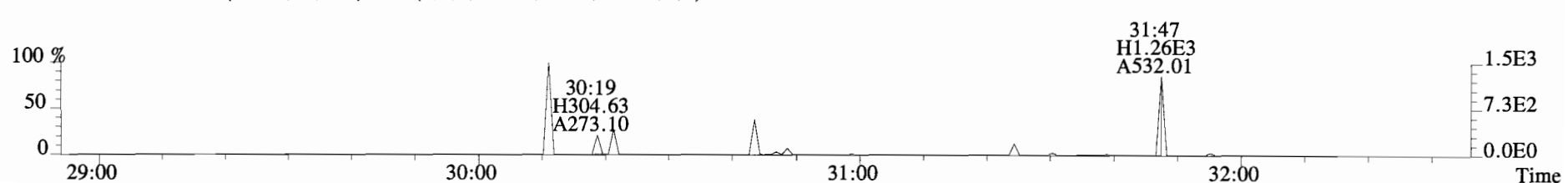
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



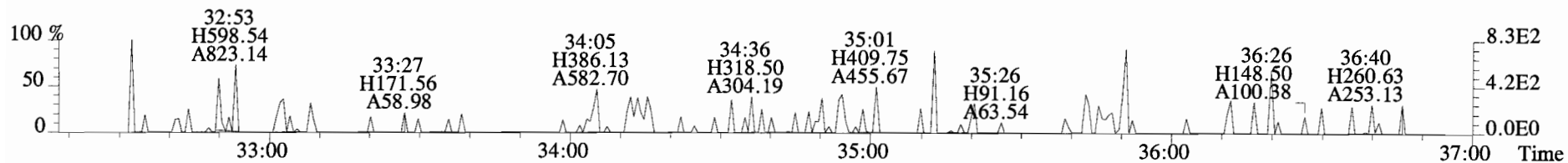
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



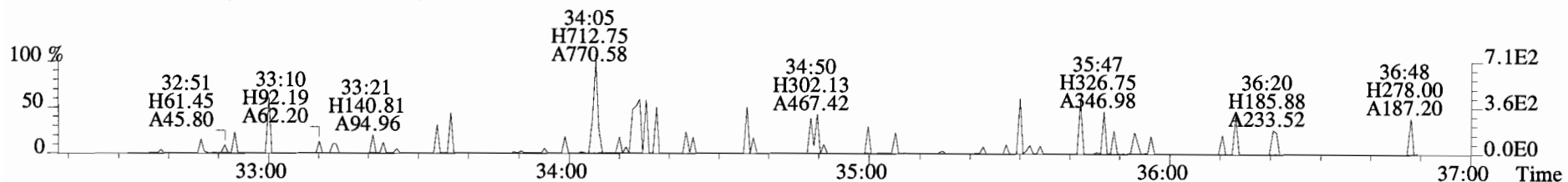
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



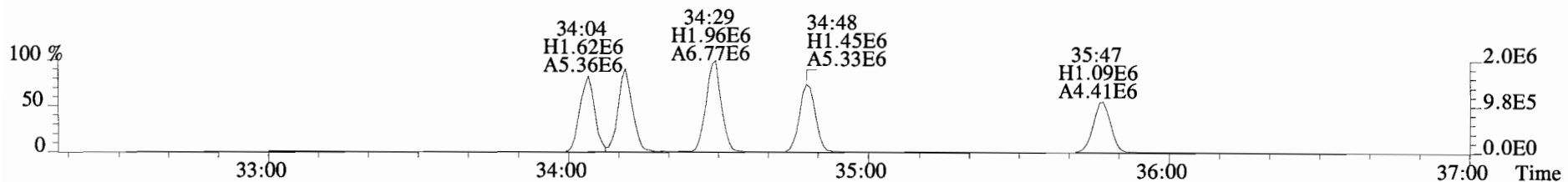
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B410066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



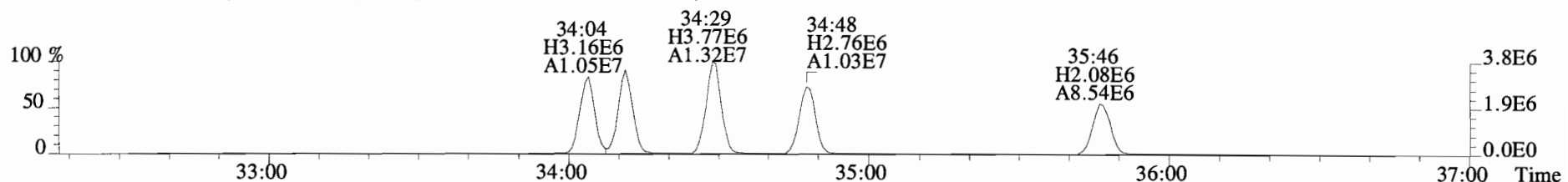
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



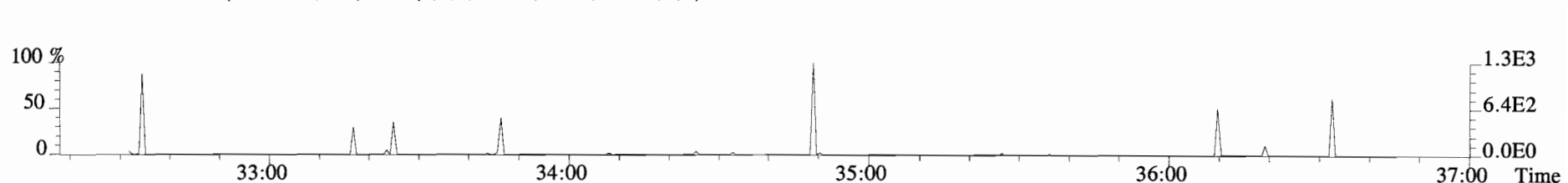
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



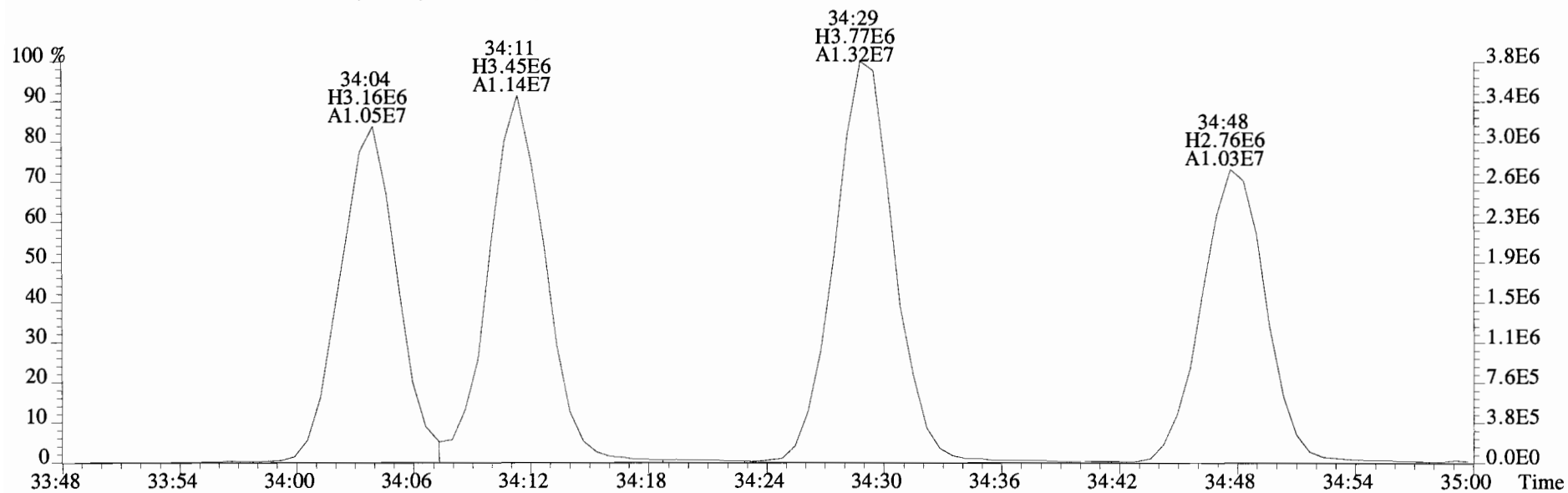
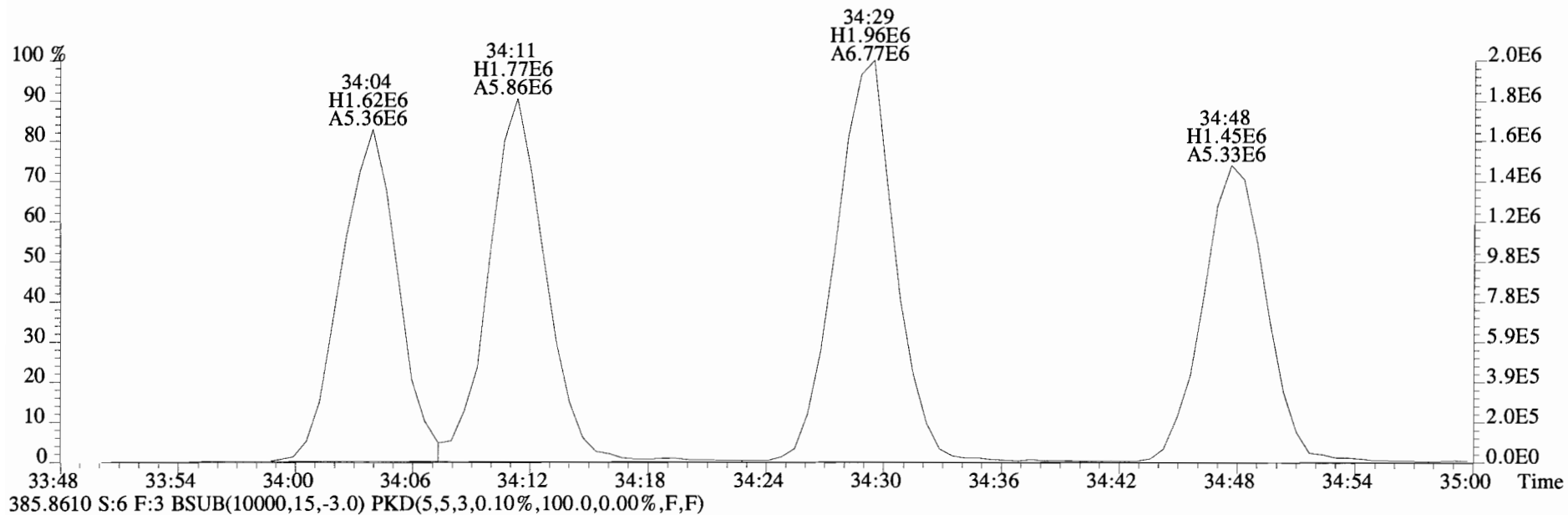
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



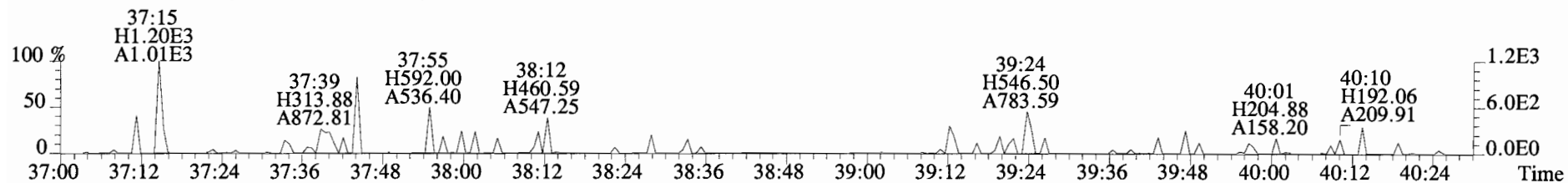
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



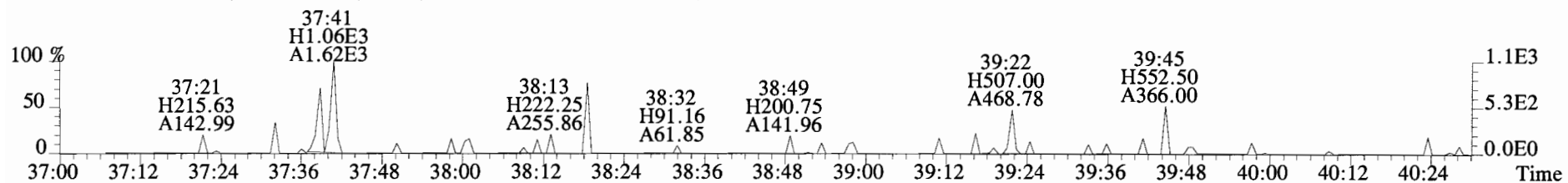
File:140922D1 #1-385 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



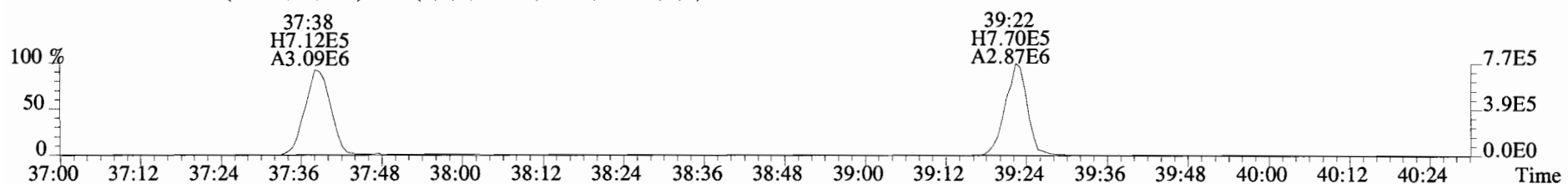
File:140922D1 #1-326 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



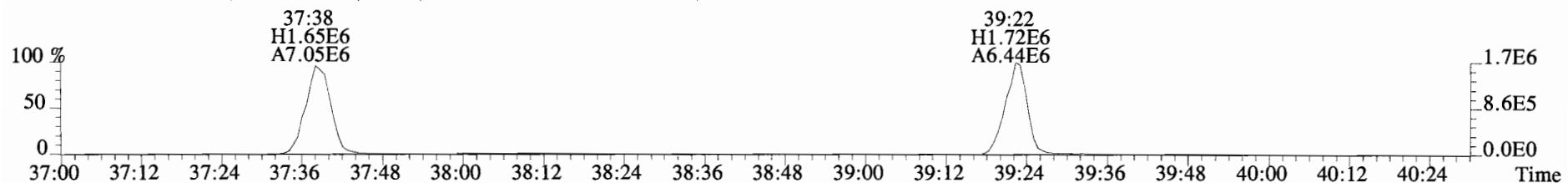
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



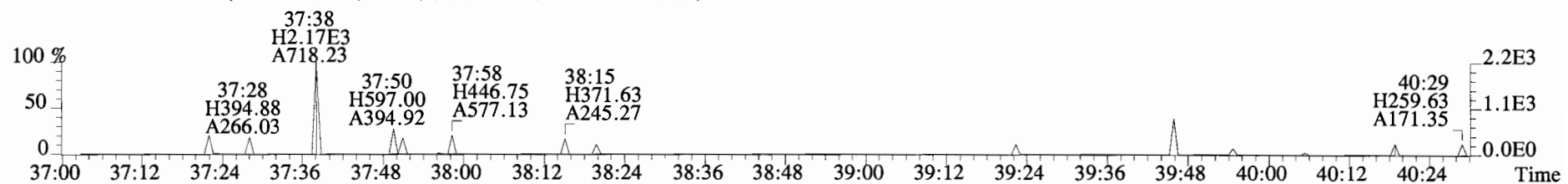
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



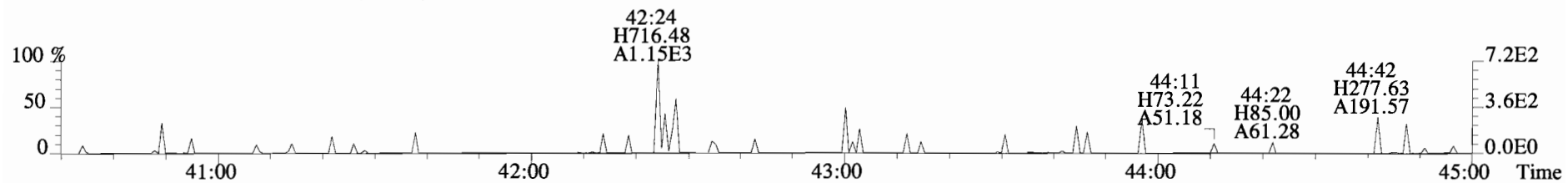
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



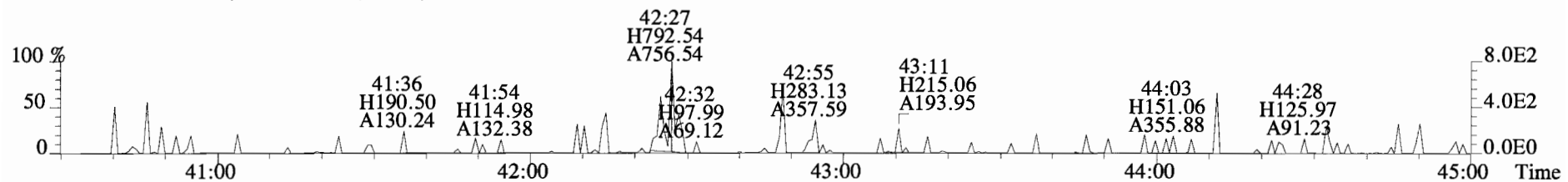
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



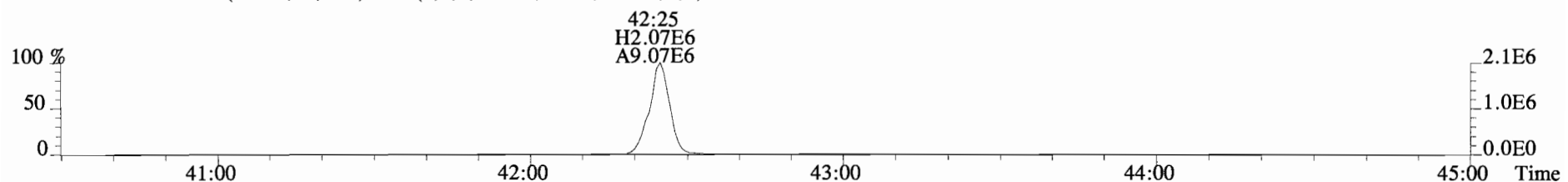
File:140922D1 #1-389 Acq:22-SEP-2014 17:34:58 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4I0066-BLK1 Method Blank 1 Exp:OCDD\_DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



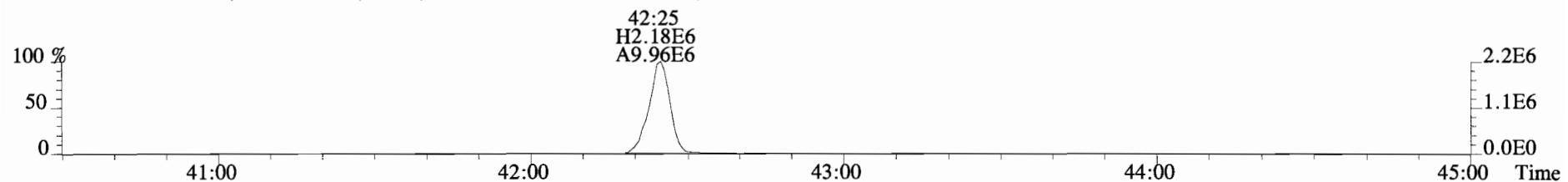
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



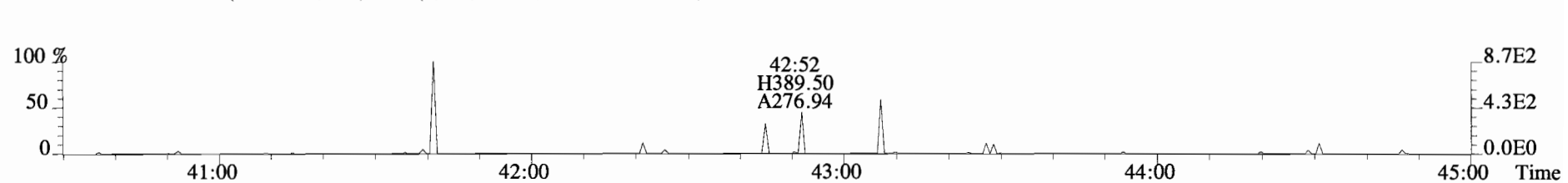
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

Integrations  
 by  
 Analyst: M

Reviewed  
 by  
 Analyst: [Signature]

Date: 9/23/14

Date: 9/23/14

C/Up	37C1-2,3,7,8-TCDD	7.61e+06		1.04	27:12	1.021	37.409	93.5
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	



Client ID: OPR  
Lab ID: B4I0066-BS1

Filename: 140922D1 S:3 Acq:22-SEP-14 15:09:53  
GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: ST140922D1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.70e+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	*						

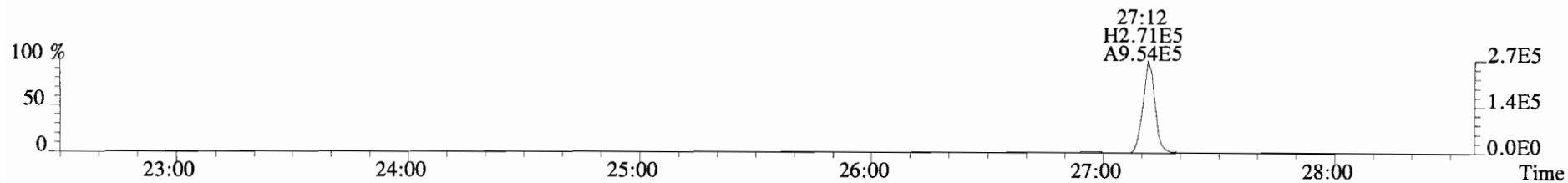
											Rec	Qual
IS	13C-2,3,7,8-TCDD	1.66e+07	0.81 y	1.06	27:11	1.021	1602.1				80.1	
IS	13C-1,2,3,7,8-PeCDD	1.78e+07	0.63 y	1.08	31:38	1.188	1687.1				84.4	
IS	13C-1,2,3,4,7,8-HxCDD	1.10e+07	1.24 y	0.74	34:58	1.014	1530.7				76.5	
IS	13C-1,2,3,6,7,8-HxCDD	1.12e+07	1.25 y	0.75	35:05	1.017	1533.6				76.7	
IS	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	

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					

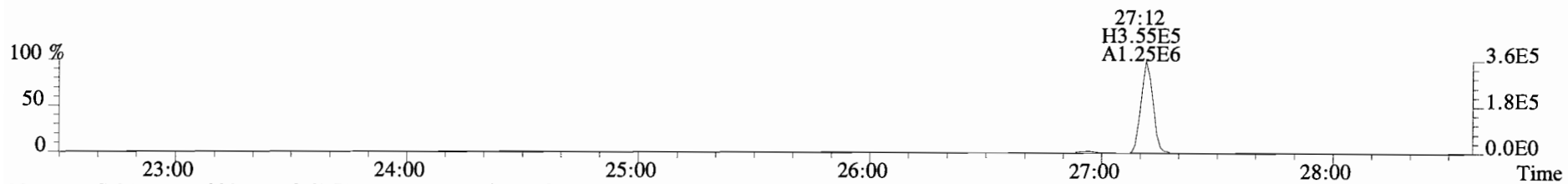
Integrations  
Reviewed by  
Analyst: (M)  
Date: 9/23/14

Analyst: 6/2  
Date: 9/23/14

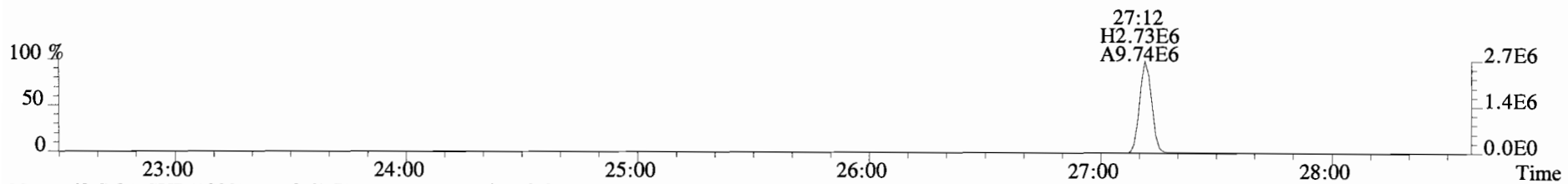
File:140922D1 #1-551 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



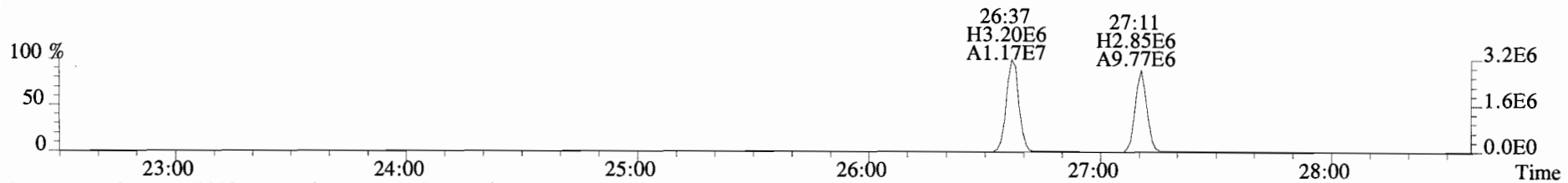
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



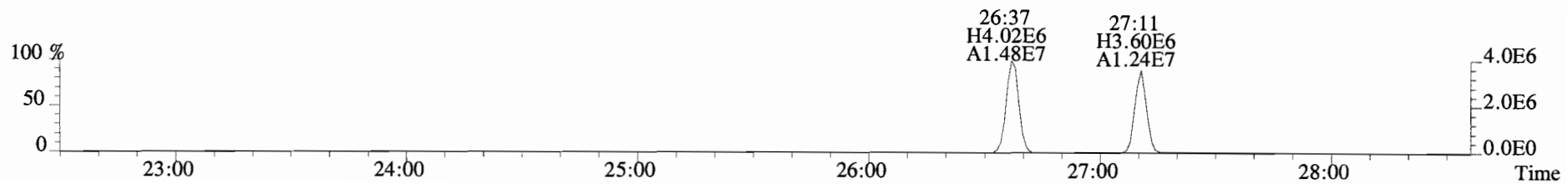
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



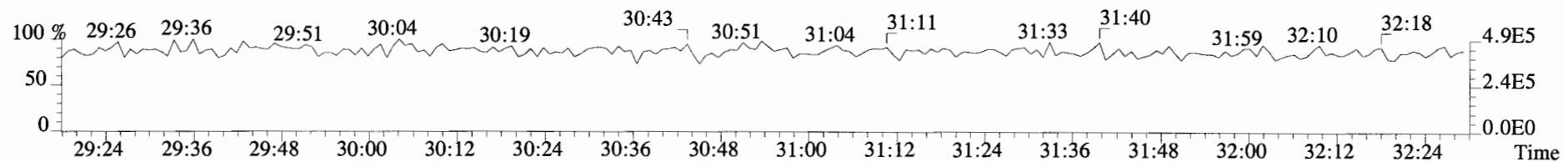
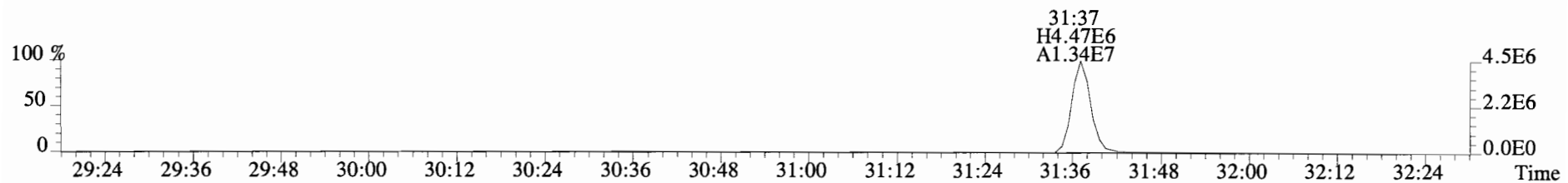
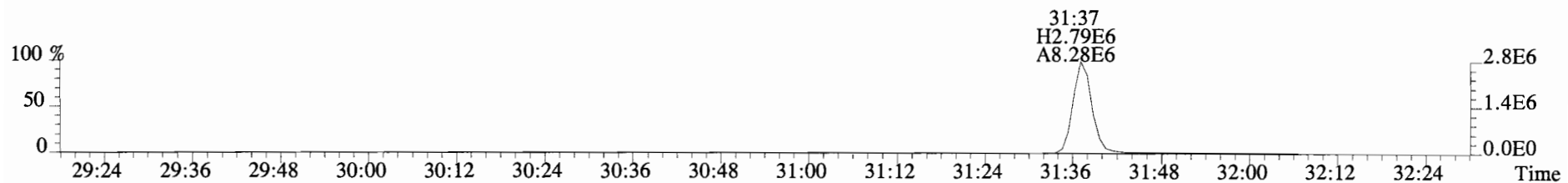
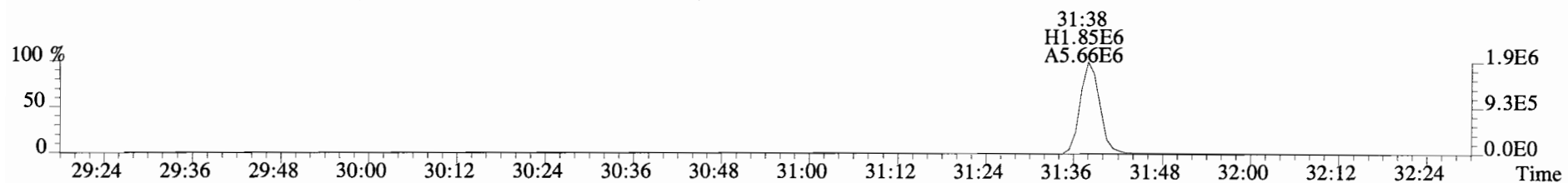
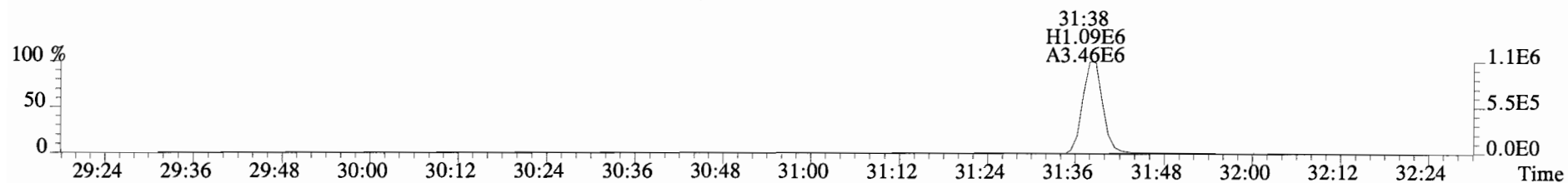
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



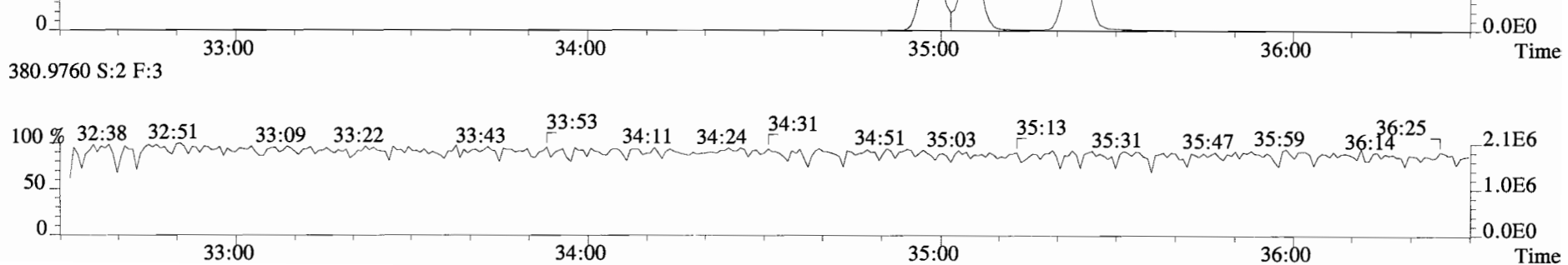
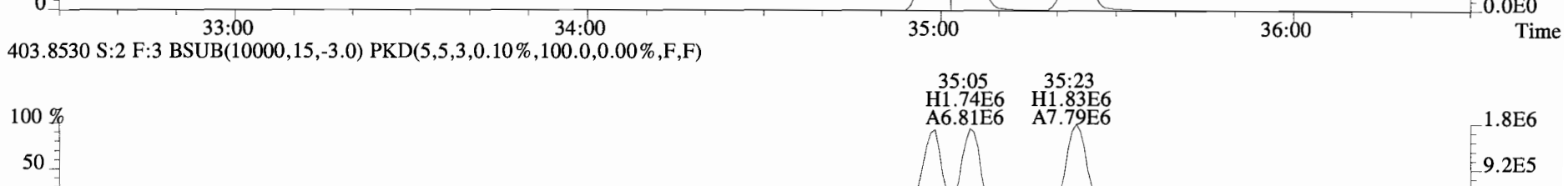
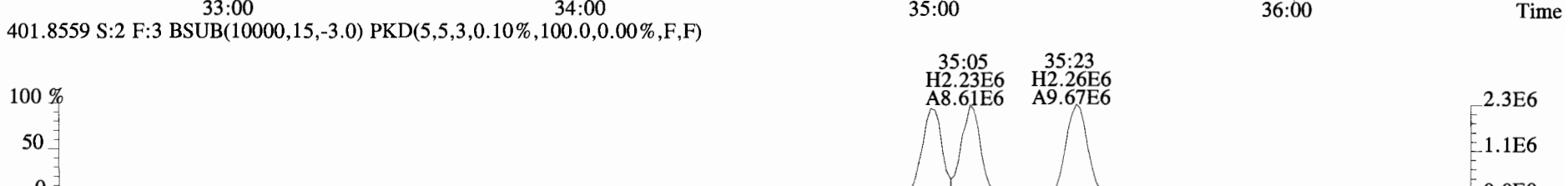
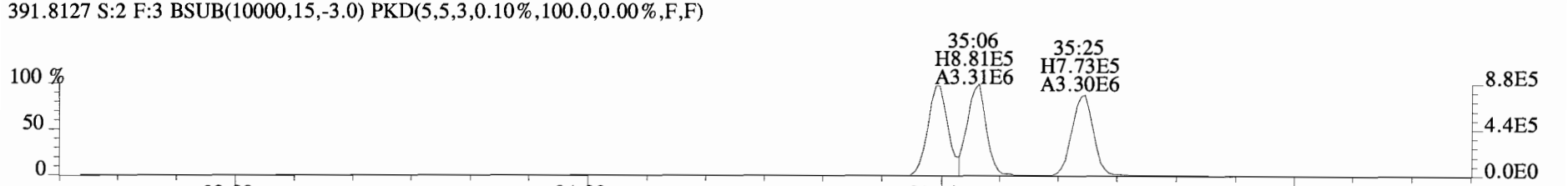
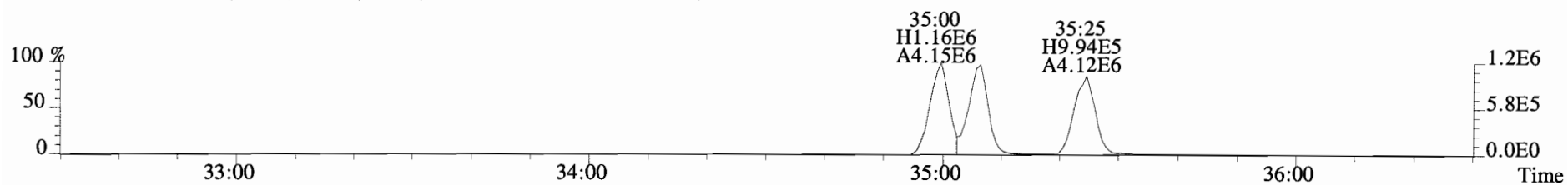
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



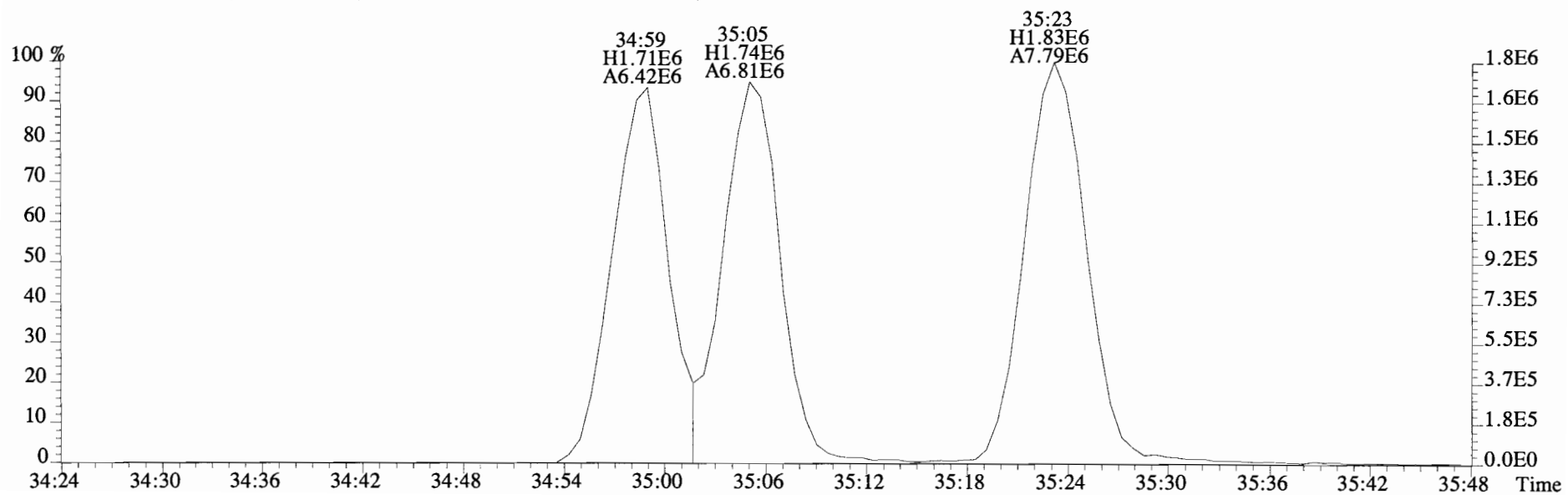
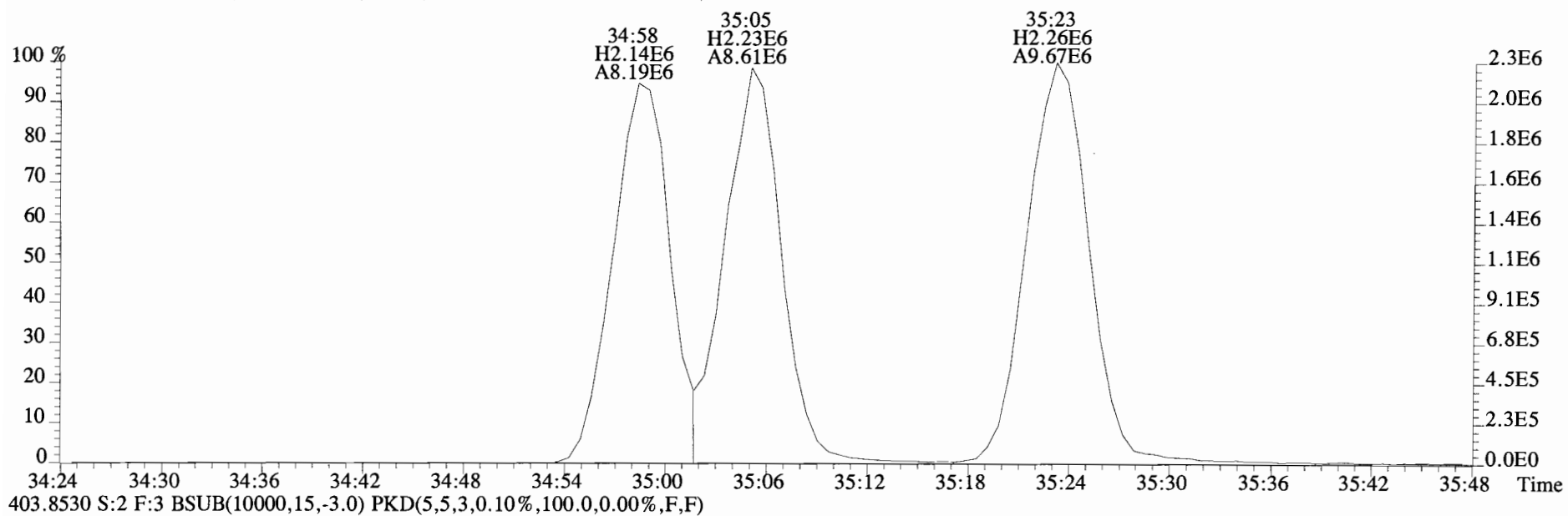
File:140922D1 #1-256 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



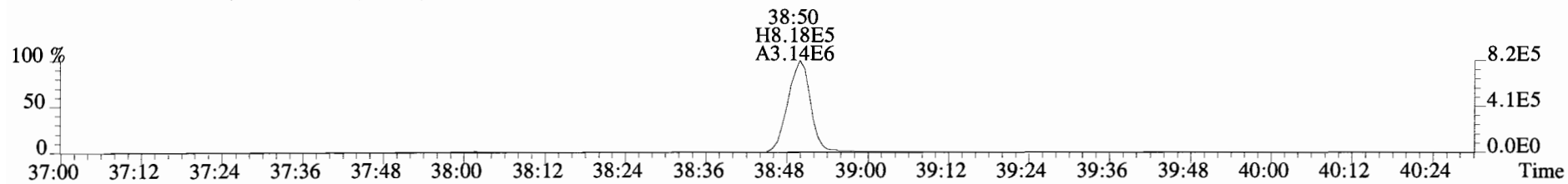
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



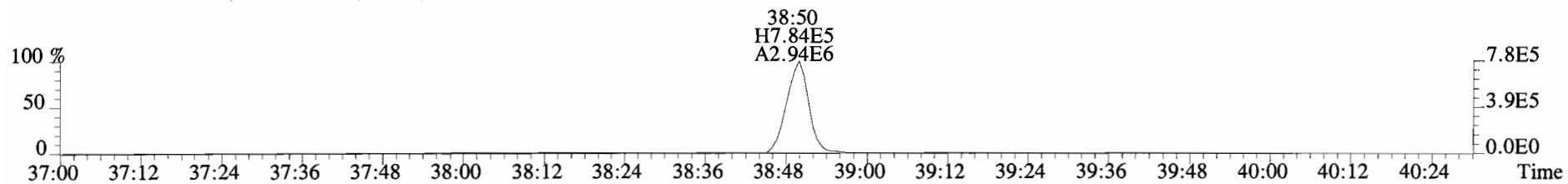
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



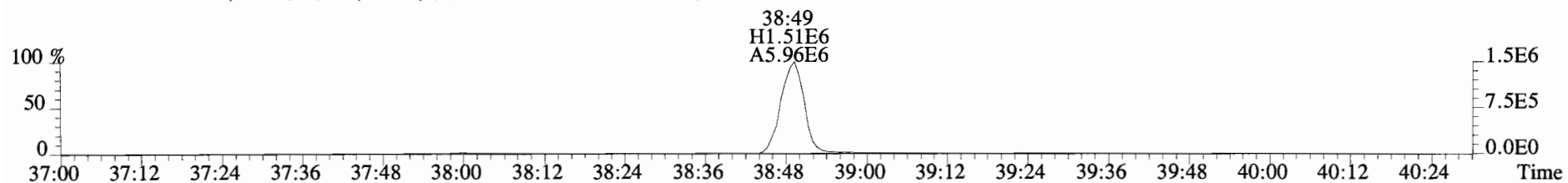
File:140922D1 #1-325 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



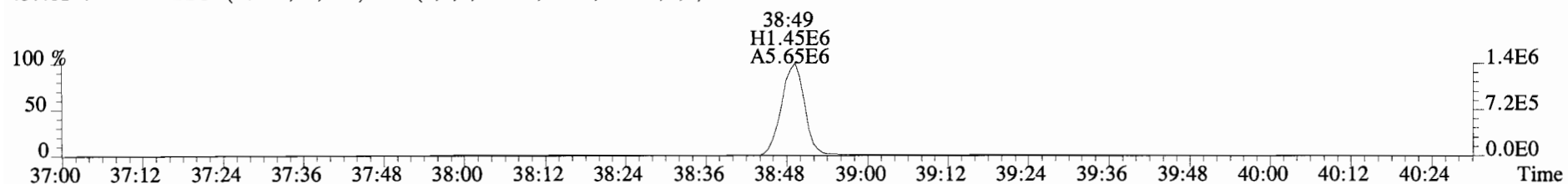
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



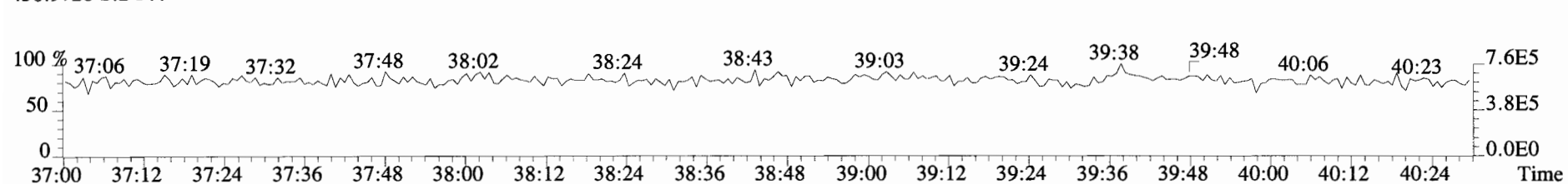
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



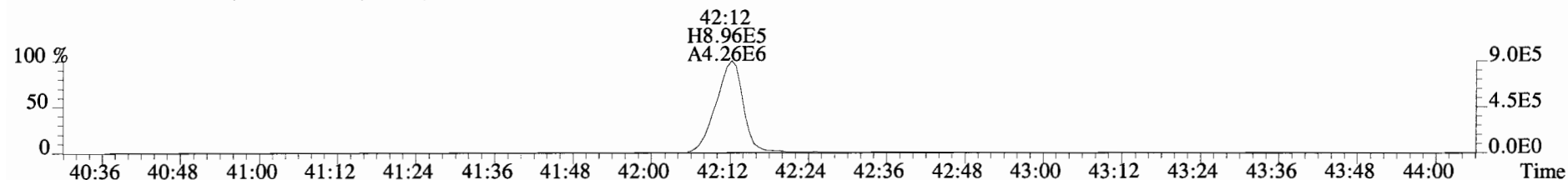
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



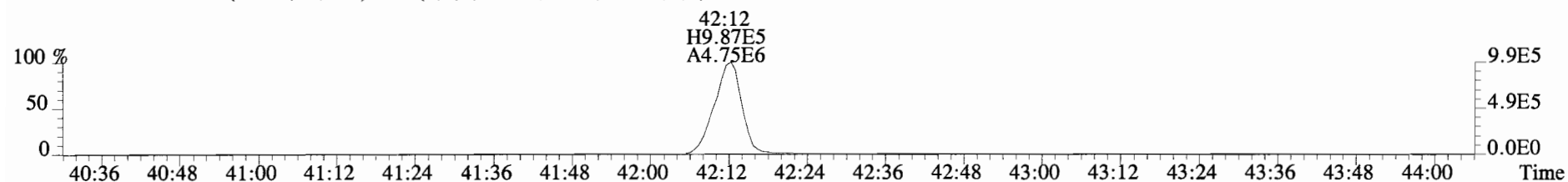
430.9728 S:2 F:4



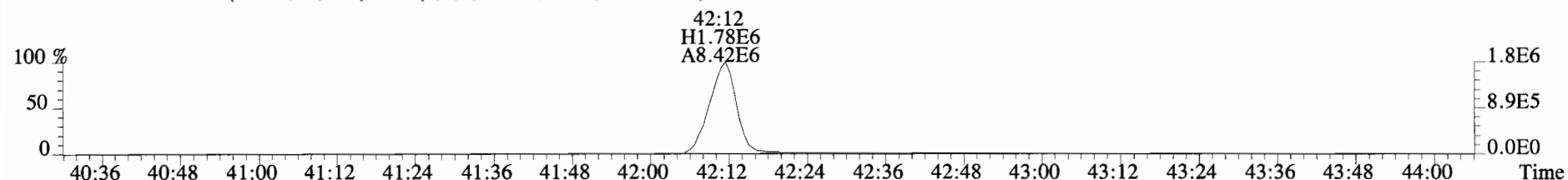
File:140922D1 #1-389 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text: B4I0065-BS1 OPR 1 Exp: OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



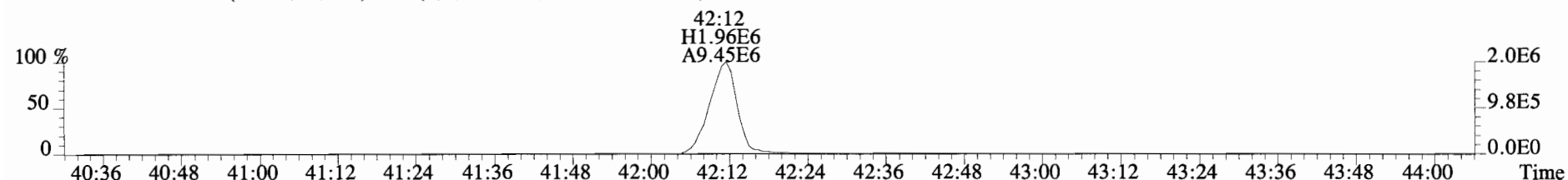
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



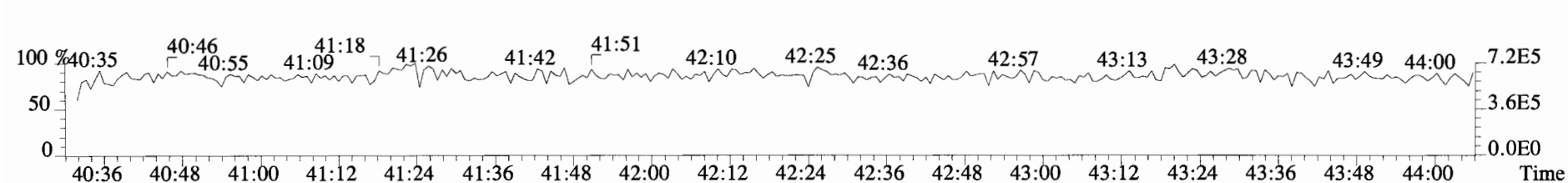
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



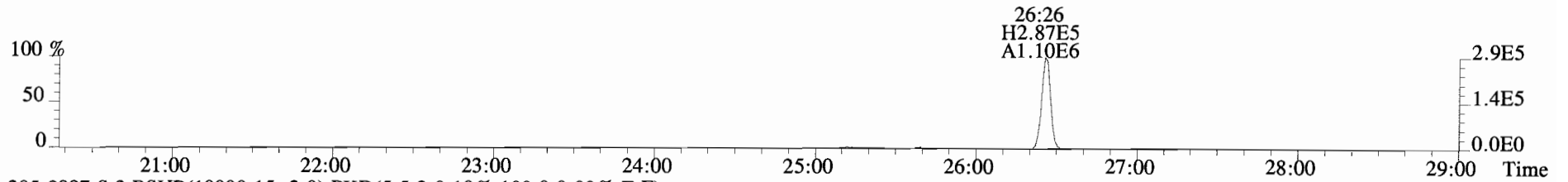
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



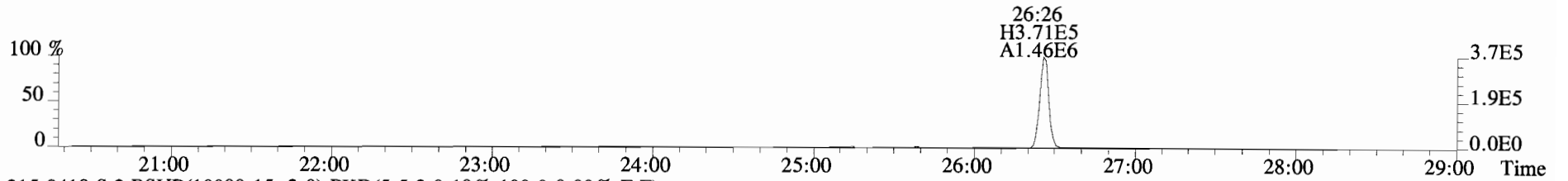
454.9728 S:2 F:5



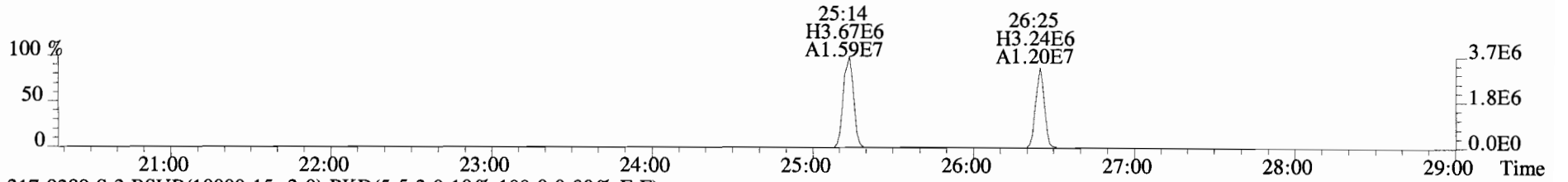
File:140922D1 #1-551 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



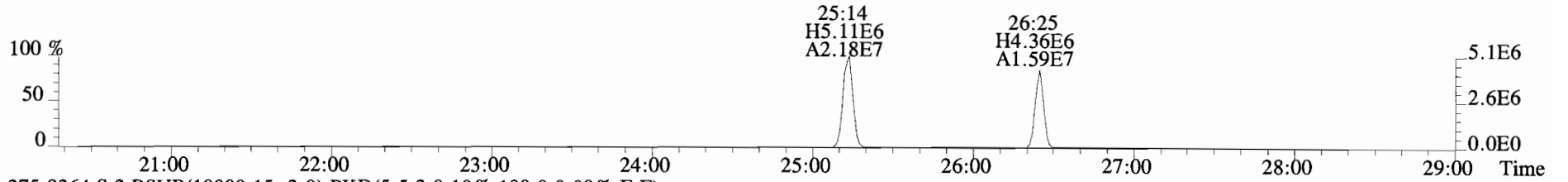
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



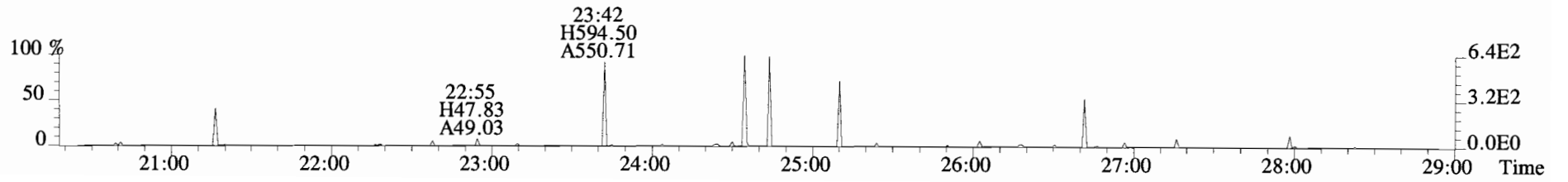
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

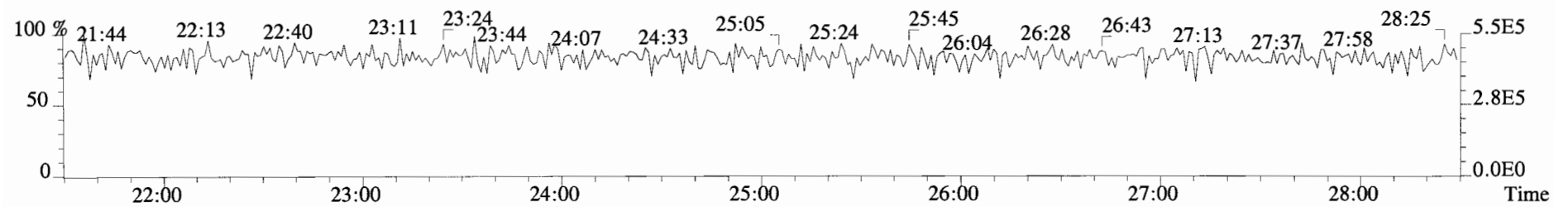
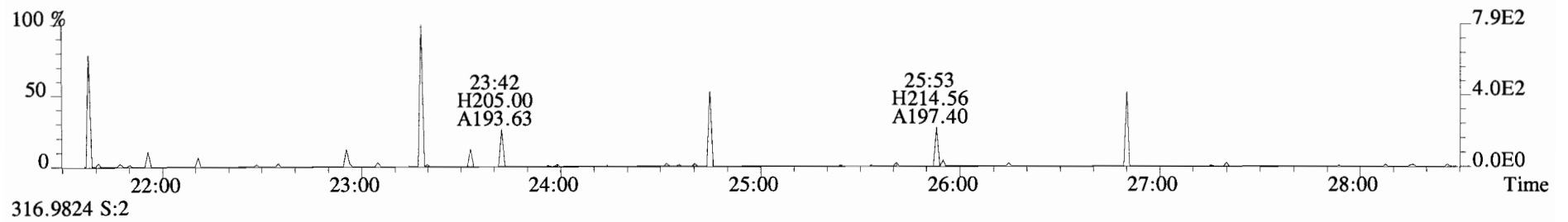
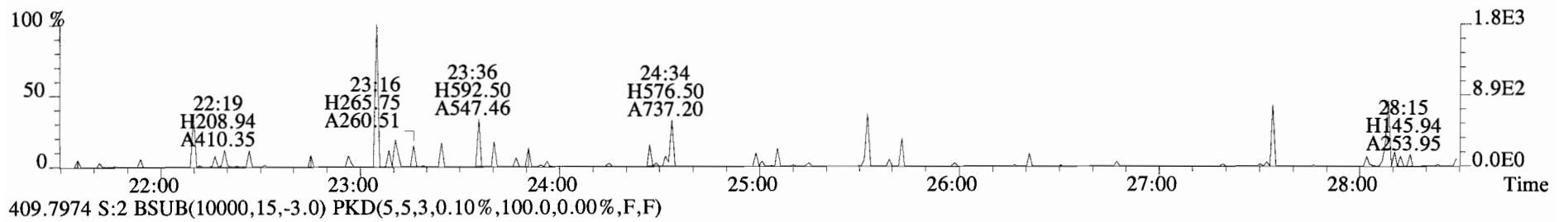
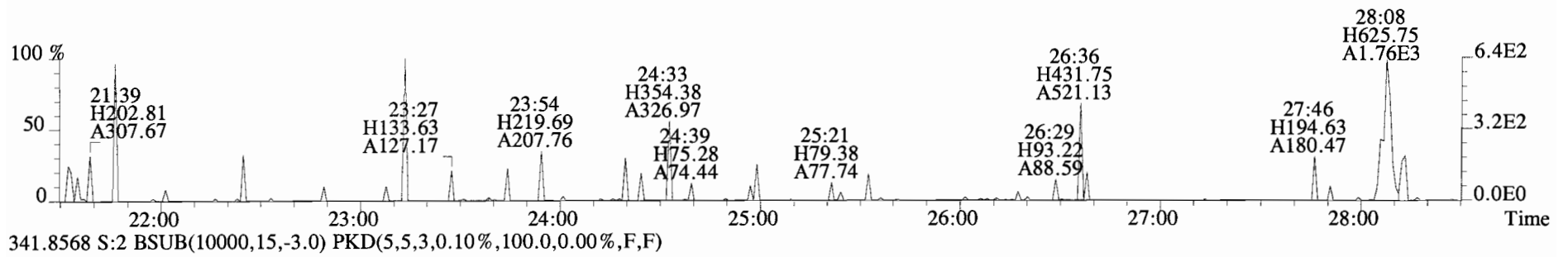


375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

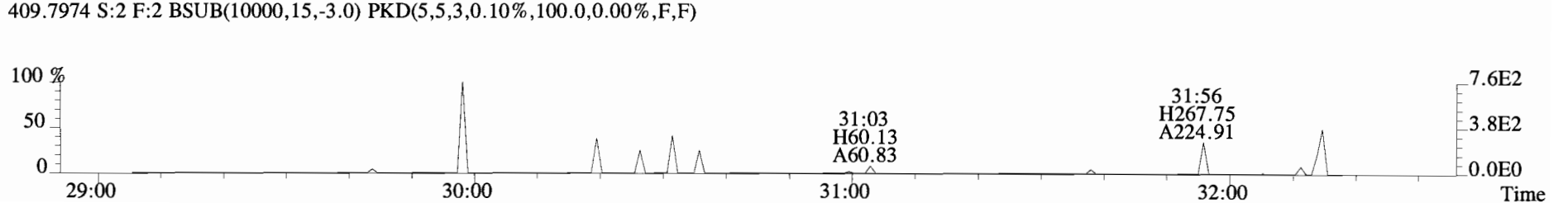
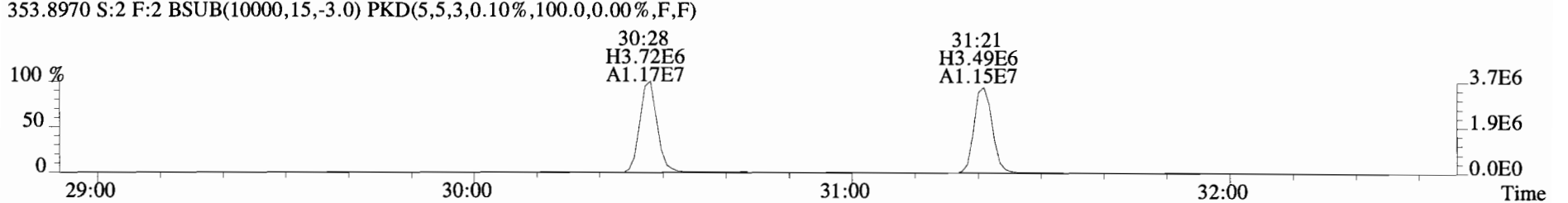
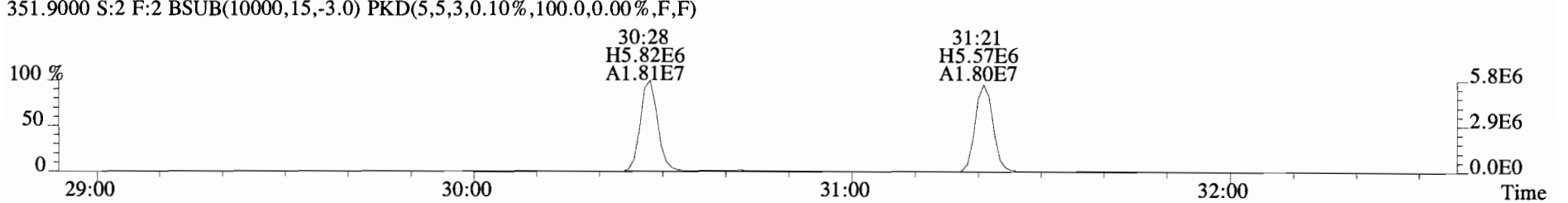
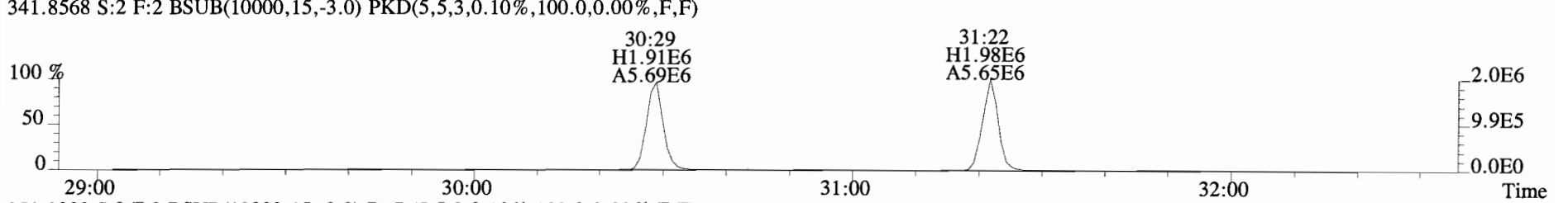
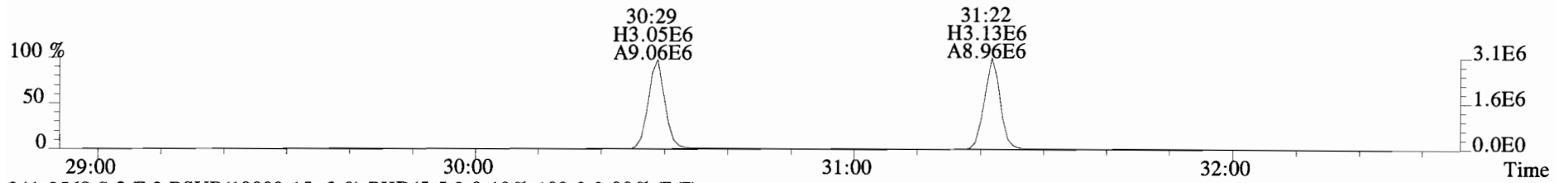




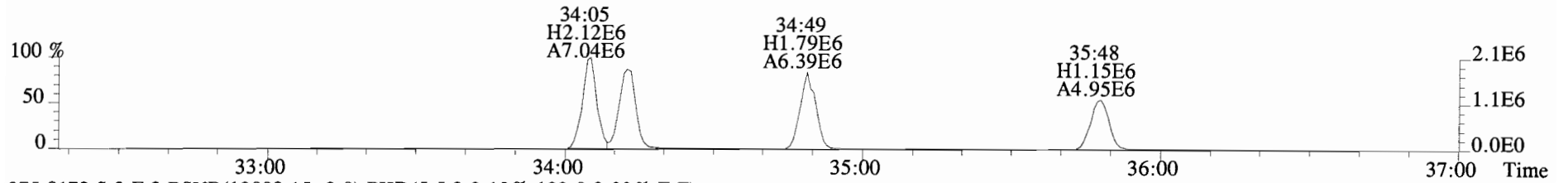
File:140922D1 #1-551 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



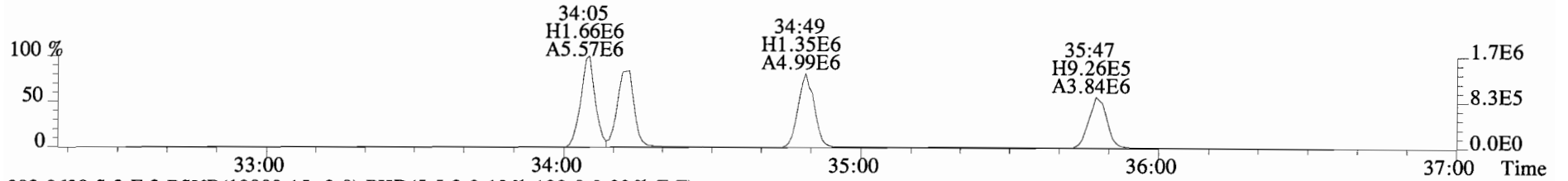
File:140922D1 #1-256 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



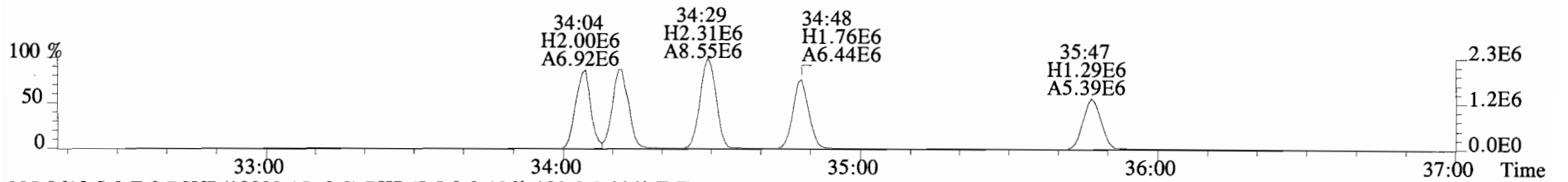
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



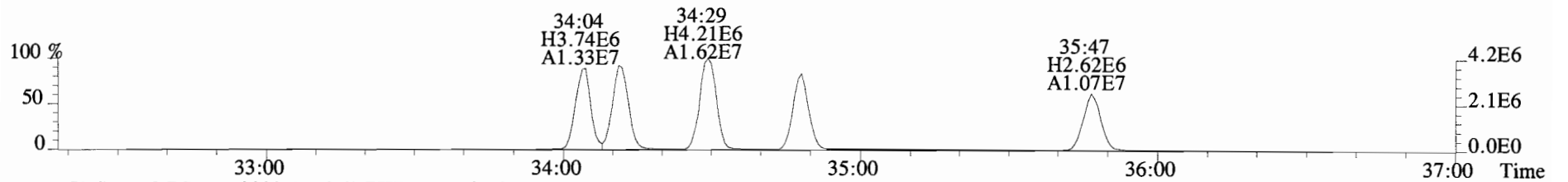
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



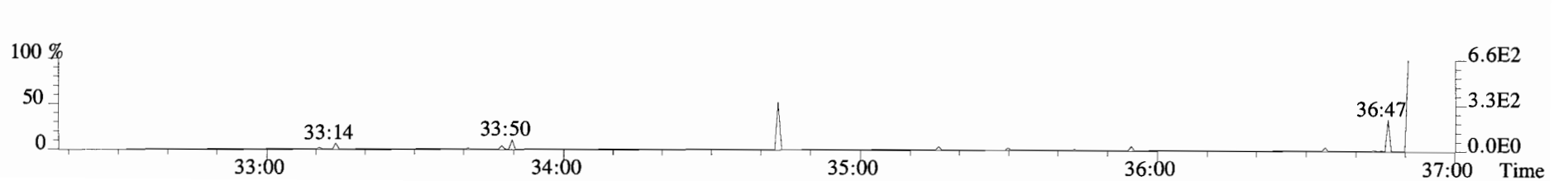
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



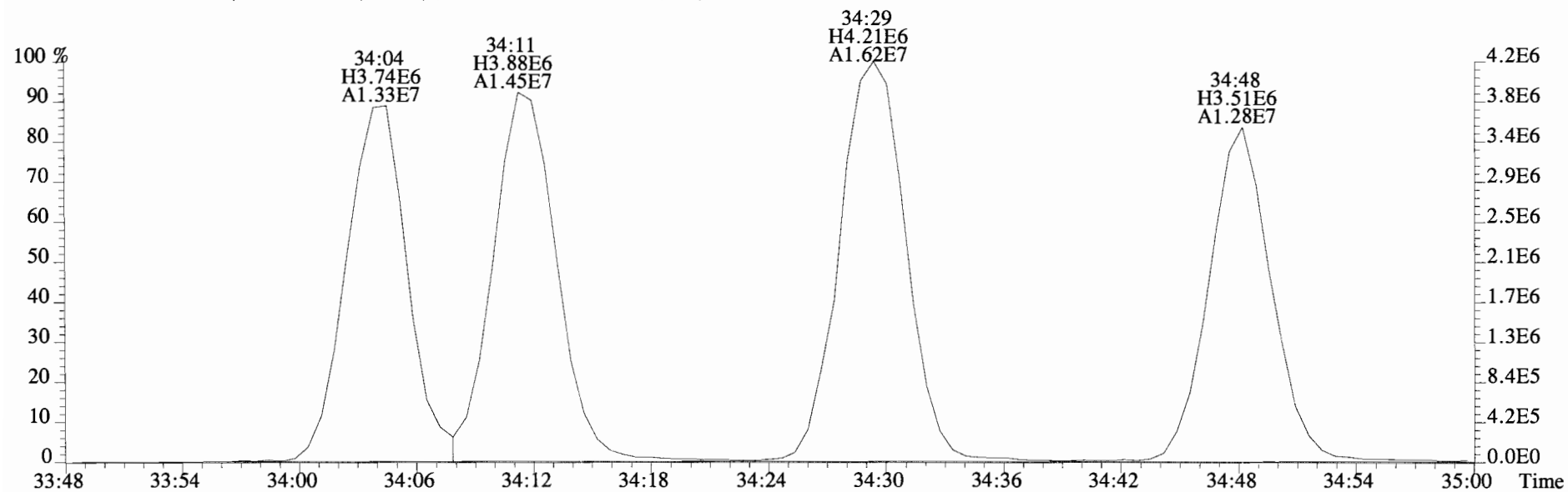
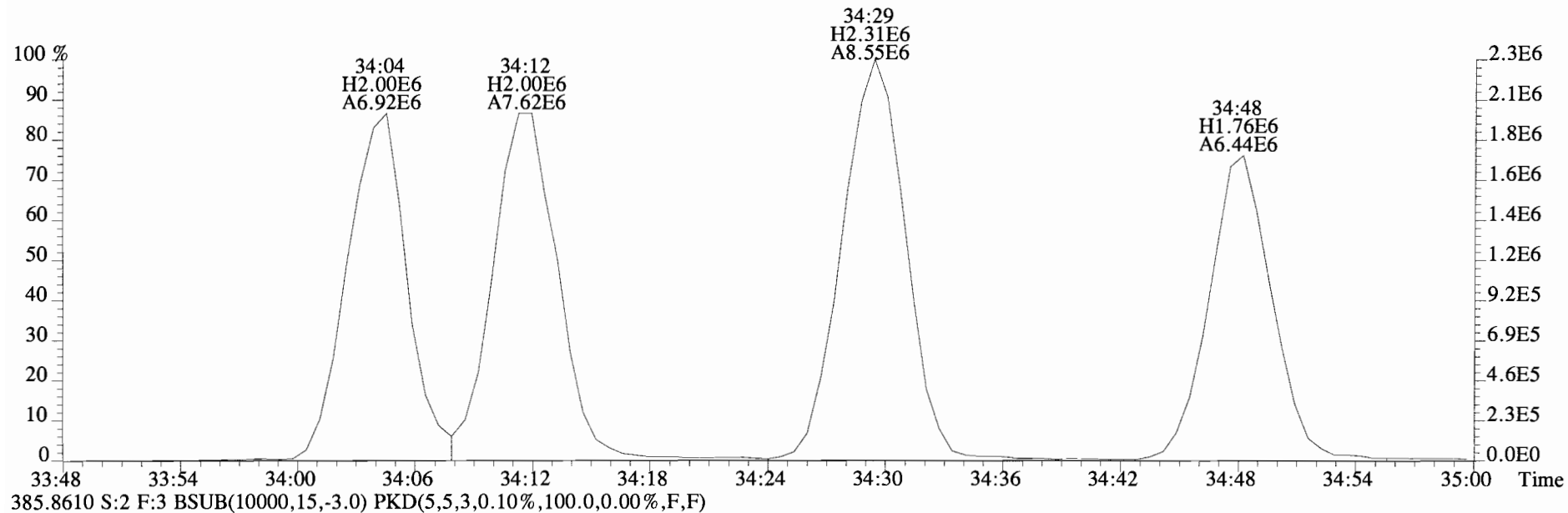
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



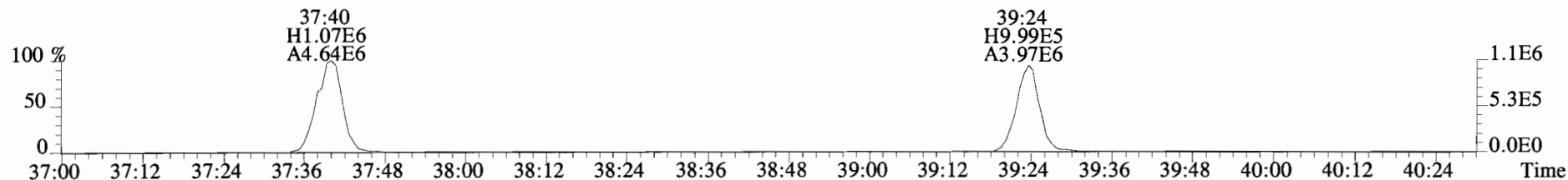
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



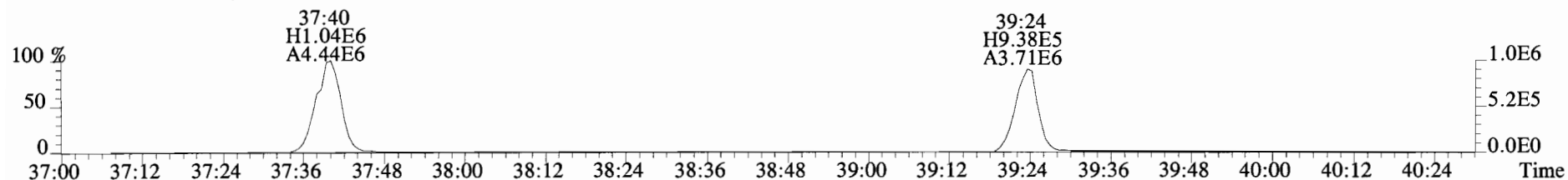
File:140922D1 #1-386 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text: B4I0065-BS1 OPR 1 Exp: OCDD\_DB5  
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



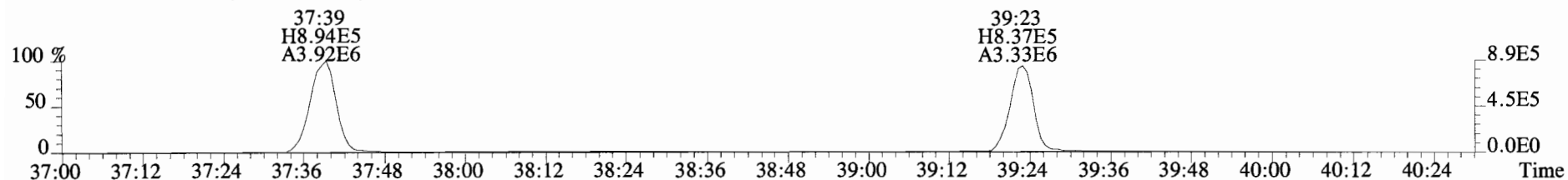
File:140922D1 #1-325 Acq:22-SEP-2014 14:21:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4I0065-BS1 OPR 1 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



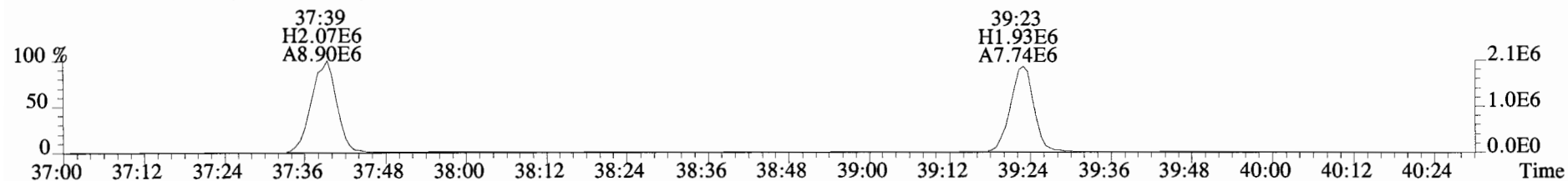
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



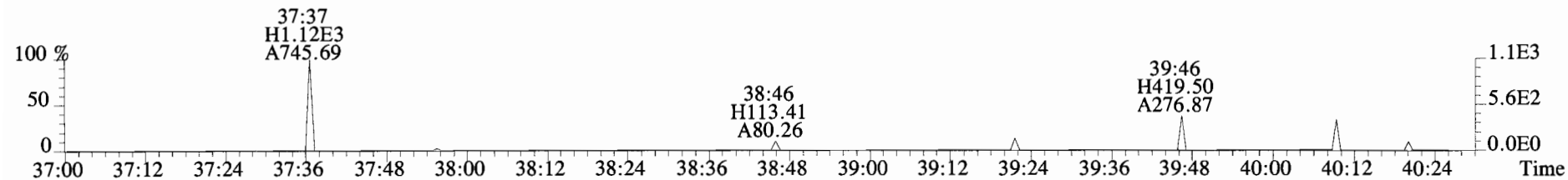
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



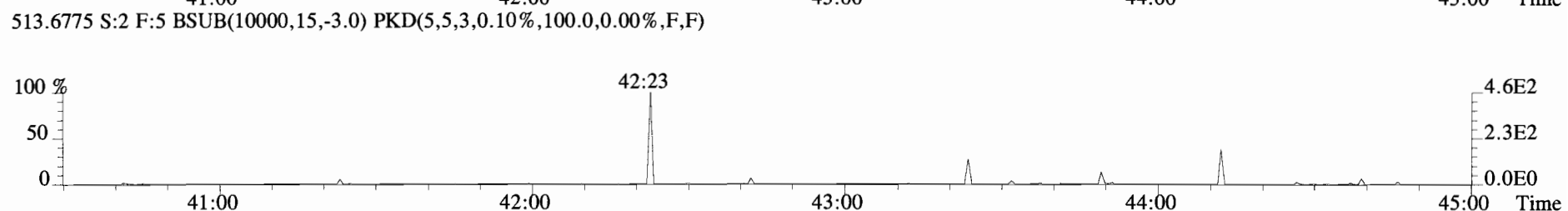
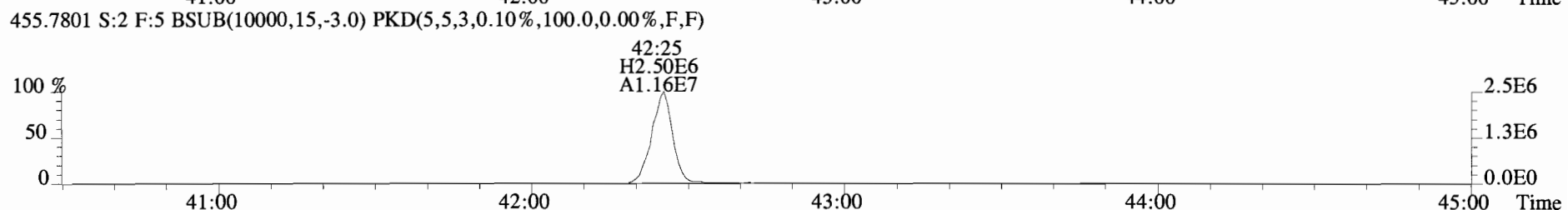
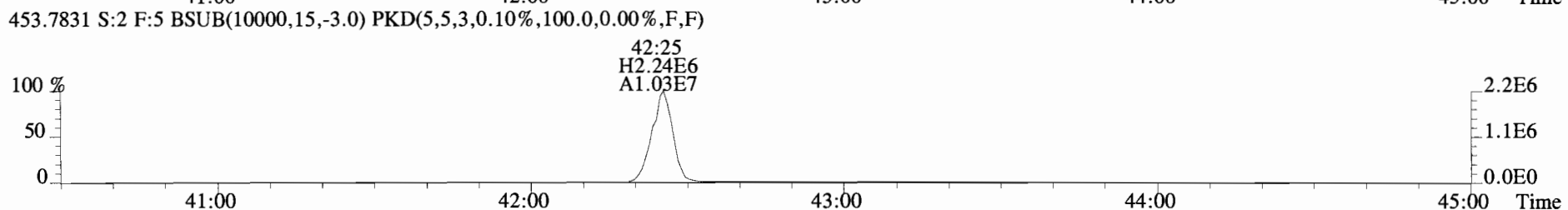
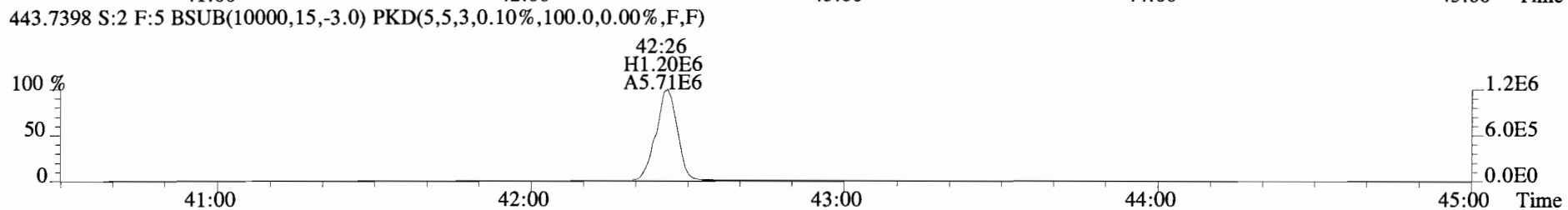
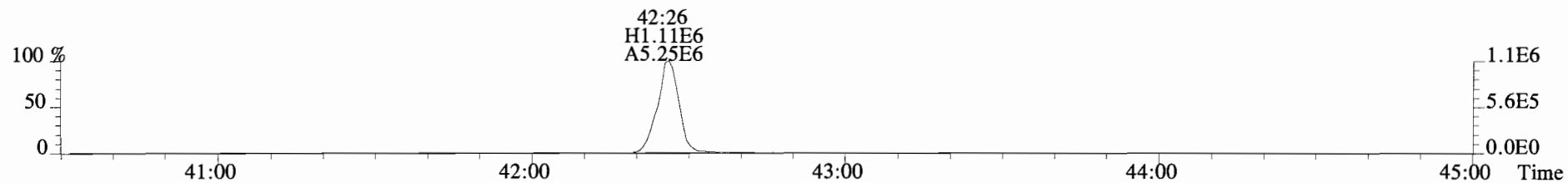
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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	Not F $\eta$	*	*		591	2.5	1.14	Total Tetra-Dioxins	*	*		591	1.14
1,2,3,7,8-PeCDD	*	* n	0.84	Not F $\eta$	*	*		480	2.5	0.762	Total Penta-Dioxins	*	*		1280	2.04
1,2,3,4,7,8-HxCDD	*	* n	1.05	Not F $\eta$	*	*		565	2.5	1.87	Total Hexa-Dioxins	*	*		1530	5.13
1,2,3,6,7,8-HxCDD	*	* n	1.04	Not F $\eta$	*	*		565	2.5	1.88	Total Hepta-Dioxins	4.35	7.18		*	*
1,2,3,7,8,9-HxCDD	*	* n	0.90	Not F $\eta$	*	*		565	2.5	1.93	Total Tetra-Furans	*	*		488	0.865
1,2,3,4,6,7,8-HpCDD	1.52e+04	0.80 n	1.01	38:48	1.000	2.8337		*	2.5	*	Total Penta-Furans	0.0000	0.0000		573	1.01
OCDD	8.37e+04	0.80 y	1.04	42:11	1.000	16.230		*	2.5	*	Total Hexa-Furans	*	*		1110	1.63
											Total Hepta-Furans	*	*		1140	2.17
2,3,7,8-TCDF	*	* n	0.91	Not F $\eta$	*	*		488	2.5	0.865						
1,2,3,7,8-PeCDF	*	* n	0.97	Not F $\eta$	*	*		335	2.5	0.580						
2,3,4,7,8-PeCDF	*	* n	0.94	Not F $\eta$	*	*		335	2.5	0.604						
1,2,3,4,7,8-HxCDF	*	* n	1.32	Not F $\eta$	*	*		587	2.5	0.716						
1,2,3,6,7,8-HxCDF	*	* n	1.18	Not F $\eta$	*	*		587	2.5	0.772						
2,3,4,6,7,8-HxCDF	*	* n	1.23	Not F $\eta$	*	*		587	2.5	0.866						
1,2,3,7,8,9-HxCDF	*	* n	1.13	Not F $\eta$	*	*		587	2.5	1.18						
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	Not F $\eta$	*	*		849	2.5	1.62						
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	Not F $\eta$	*	*		288	2.5	0.549						
OCDF	*	* n	1.05	Not F $\eta$	*	*		1190	1.0	1.92						

IS	13C-2,3,7,8-TCDD	1.63e+07	0.79 y	1.06	27:10	1.021	1449.7
IS	13C-1,2,3,7,8-PeCDD	1.84e+07	0.63 y	1.08	31:36	1.188	1600.3
IS	13C-1,2,3,4,7,8-HxCDD	1.21e+07	1.25 y	0.74	34:57	1.014	1548.0
IS	13C-1,2,3,6,7,8-HxCDD	1.25e+07	1.22 y	0.75	35:04	1.017	1594.2
IS	13C-1,2,3,7,8,9-HxCDD	1.45e+07	1.24 y	0.89	35:22	1.026	1554.6
IS	13C-1,2,3,4,6,7,8-HpCDD	1.06e+07	1.05 y	0.70	38:48	1.126	1439.4
IS	13C-OCDD	1.98e+07	0.89 y	0.59	42:10	1.223	3199.4
IS	13C-2,3,7,8-TCDF	2.10e+07	0.74 y	0.97	26:24	0.992	1500.2
IS	13C-1,2,3,7,8-PeCDF	2.28e+07	1.59 y	0.99	30:26	1.144	1590.6
IS	13C-2,3,4,7,8-PeCDF	2.27e+07	1.59 y	1.01	31:20	1.178	1554.3
IS	13C-1,2,3,4,7,8-HxCDF	1.65e+07	0.51 y	0.94	34:03	0.988	1672.1
IS	13C-1,2,3,6,7,8-HxCDF	1.78e+07	0.52 y	1.23	34:11	0.992	1384.7
IS	13C-2,3,4,6,7,8-HxCDF	1.58e+07	0.51 y	1.03	34:47	1.009	1457.4
IS	13C-1,2,3,7,8,9-HxCDF	1.37e+07	0.52 y	0.89	35:46	1.038	1471.6
IS	13C-1,2,3,4,6,7,8-HpCDF	1.06e+07	0.44 y	0.71	37:38	1.092	1431.3
IS	13C-1,2,3,4,7,8,9-HpCDF	1.02e+07	0.44 y	0.64	39:22	1.142	1511.5
IS	13C-OCDF	2.22e+07	0.88 y	0.76	42:24	1.230	2787.9

Rec	Qual
72.5	
80.0	
77.4	
79.7	
77.7	
72.0	
80.0	
75.0	
79.5	
77.7	
83.6	
69.2	
72.9	
73.6	
71.6	
75.6	
69.7	

C/Up	37Cl-2,3,7,8-TCDD	7.71e+06		1.04	27:11	1.022	697.79
RS/RT	13C-1,2,3,4-TCDD	2.12e+07	0.78 y	1.00	26:36	*	1999.6
RS	13C-1,2,3,4-TCDF	2.90e+07	0.77 y	1.00	25:12	*	1999.6
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.10e+07	0.52 y	1.00	34:28	*	1999.6

Integrations  
 by  
 Analyst: VM  
 Date: 9/23/14  
 Reviewed  
 by  
 Analyst: 4/2  
 Date: 9/23/14

Totals class: HpCDD EMPC

Entry #: 25

Run: 13 File: 140922D1 S: 8 I: 1 F: 4

Acquired: 22-SEP-14 19:11:42 Processed: 23-SEP-14 08:24:09

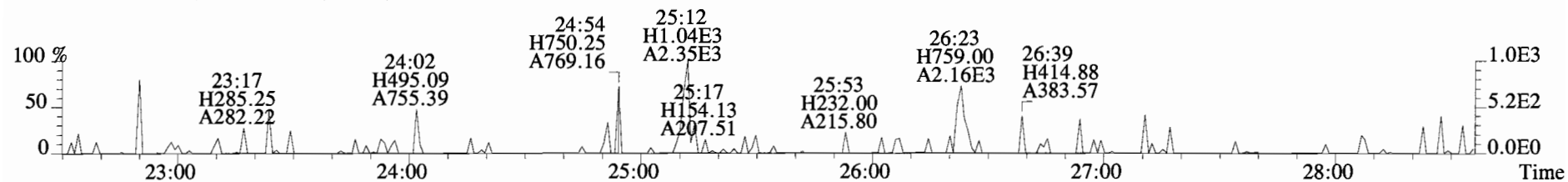
Total Concentration: 7.1827

Unnamed Concentration: 4.349

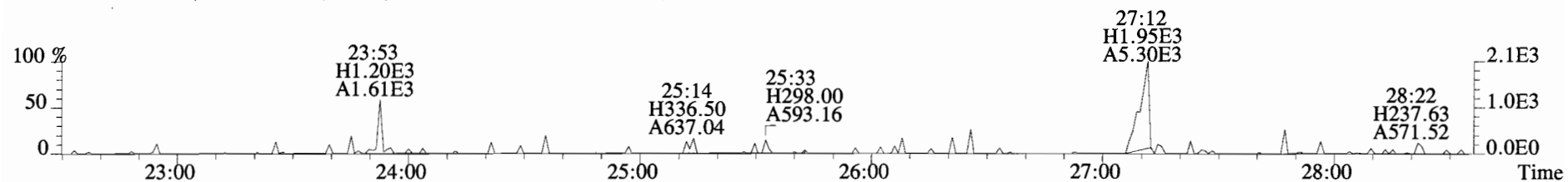
RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:59	1.222e+04	1.108e+04	1.10 y		2.330e+04	4.3490
38:48	7.740e+03	9.680e+03	0.80 n		1.518e+04	2.8337



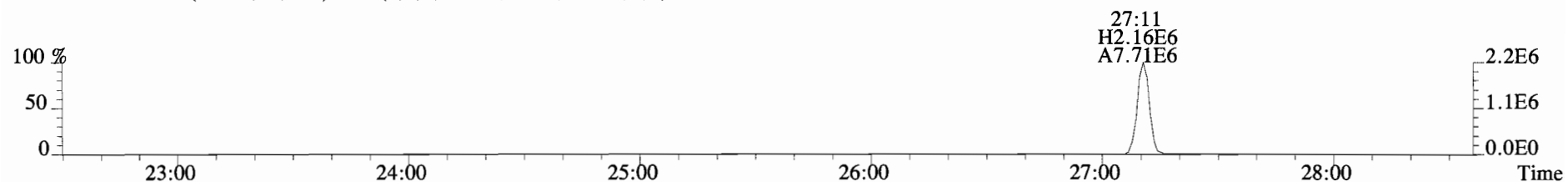
File:140922D1 #1-551 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



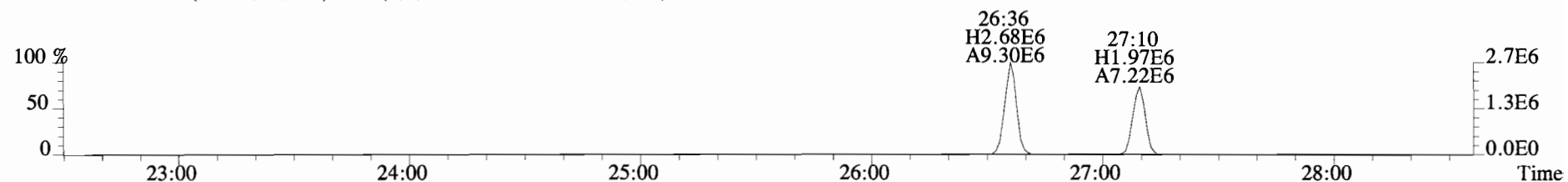
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



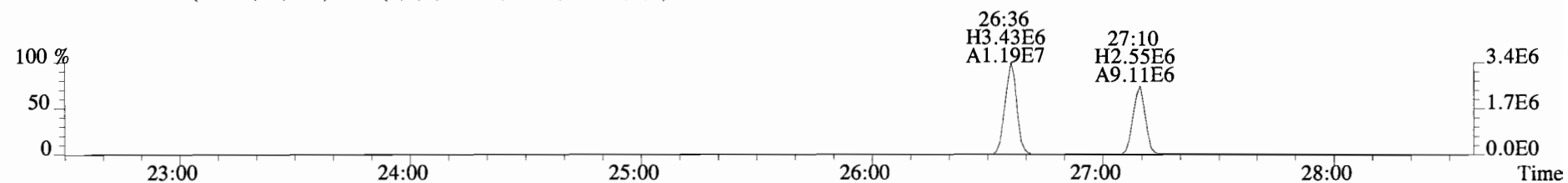
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



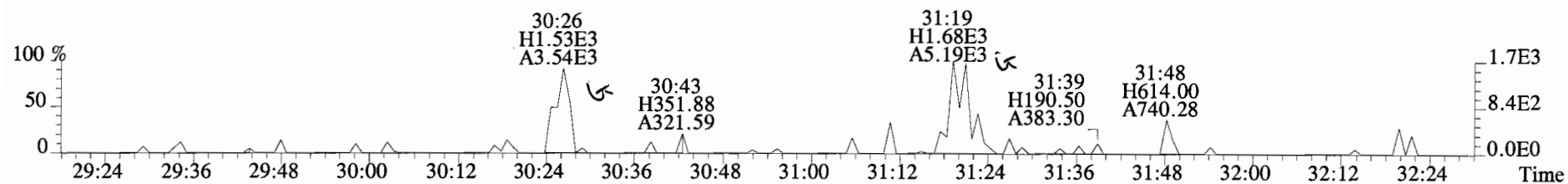
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



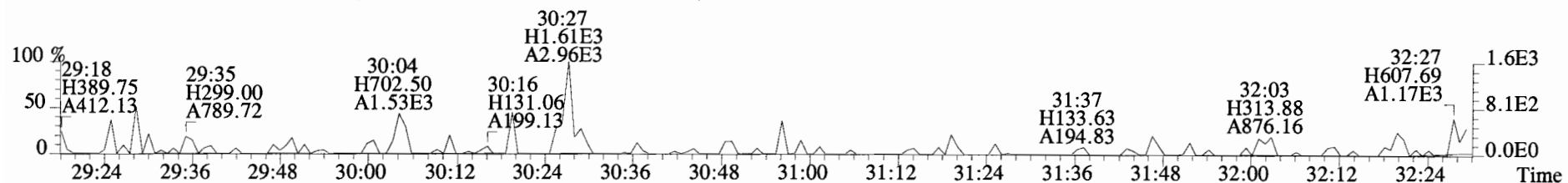
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



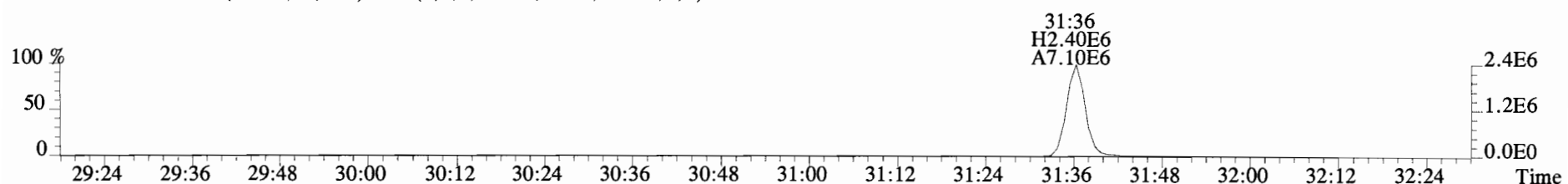
File:140922D1 #1-256 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
 353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



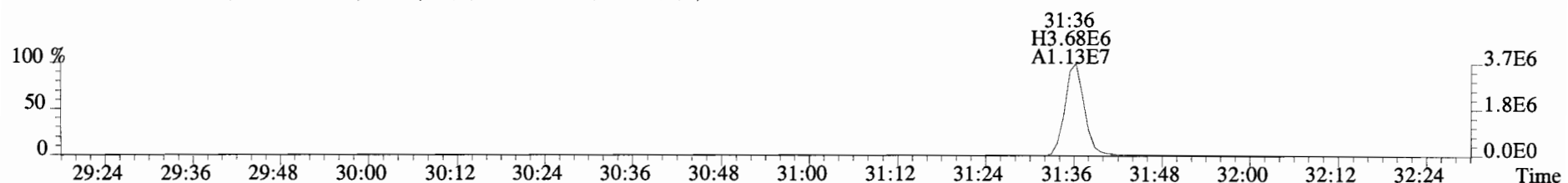
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



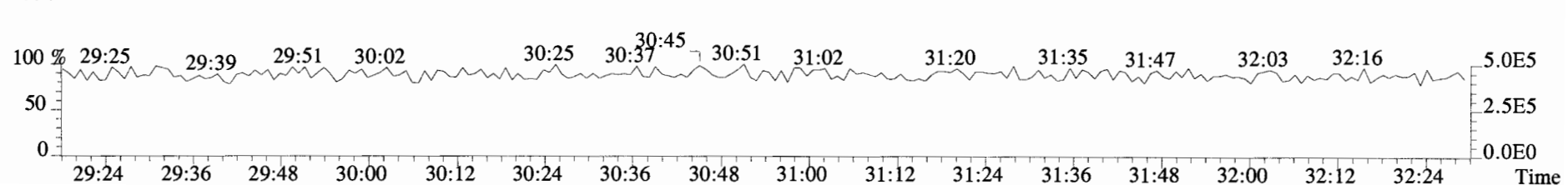
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



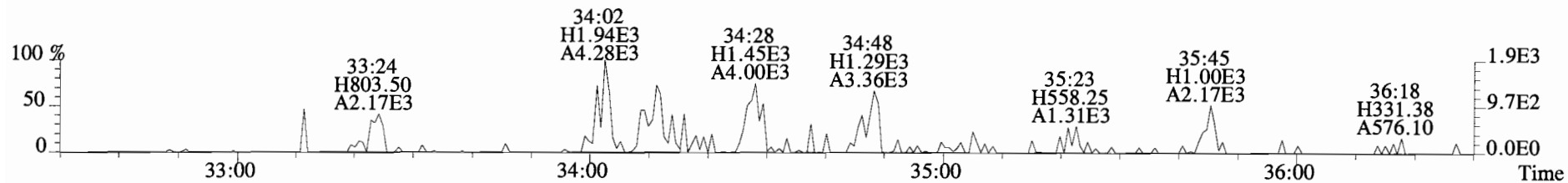
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



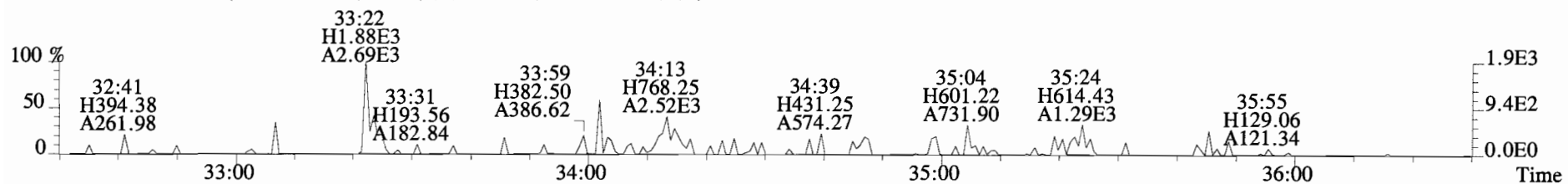
366.9792 S:8 F:2



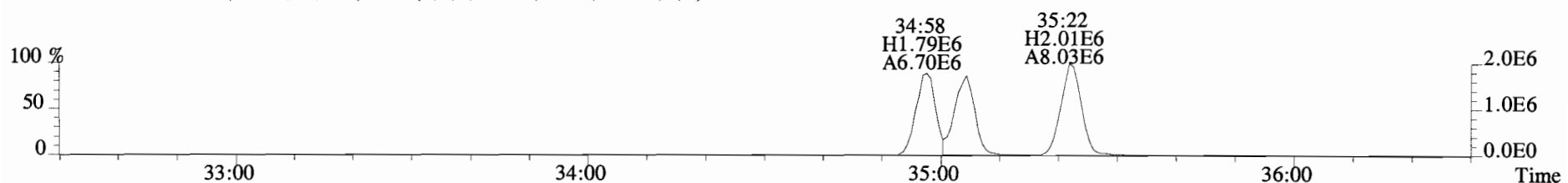
File:140922D1 #1-386 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



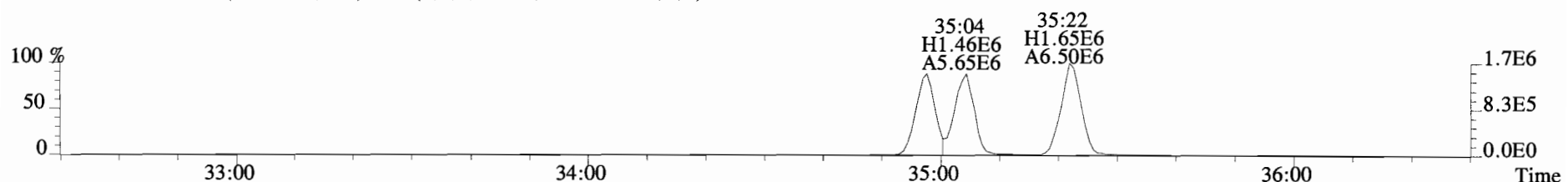
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



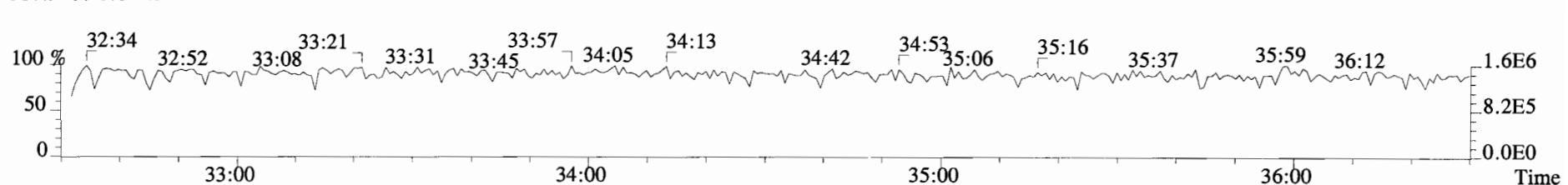
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



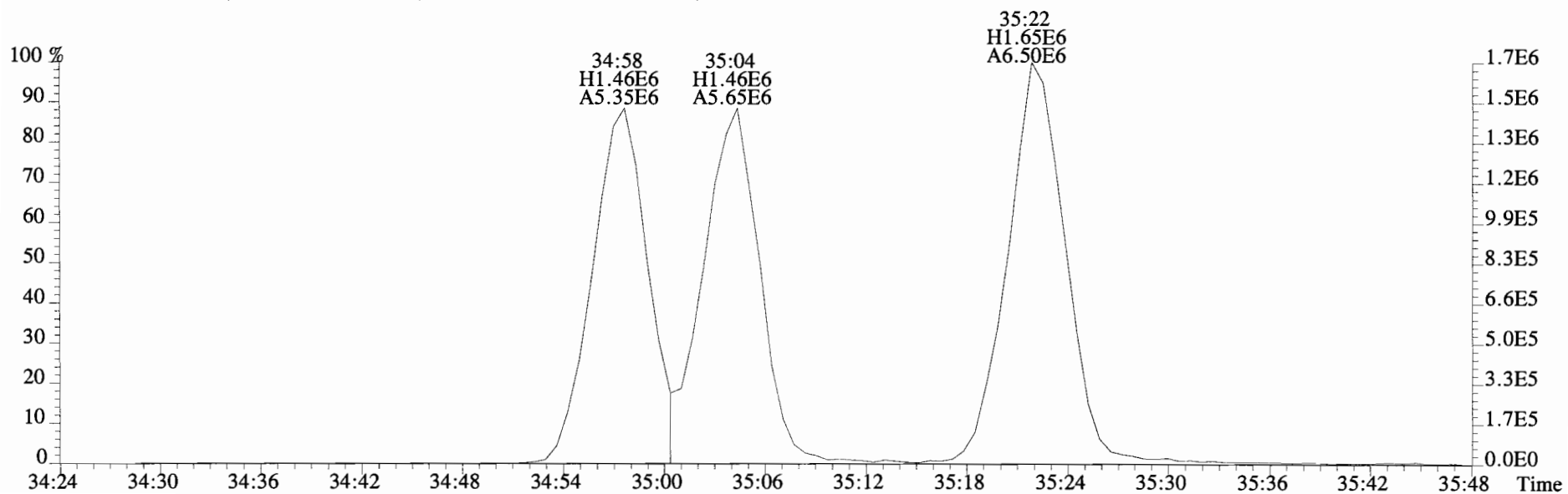
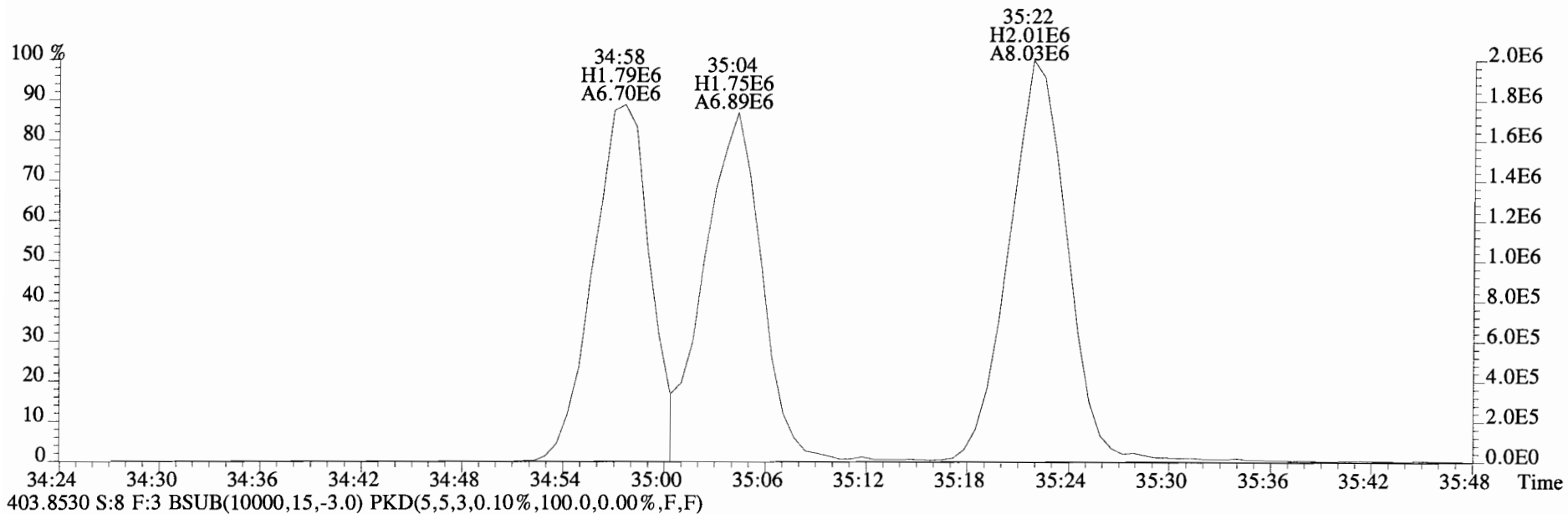
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



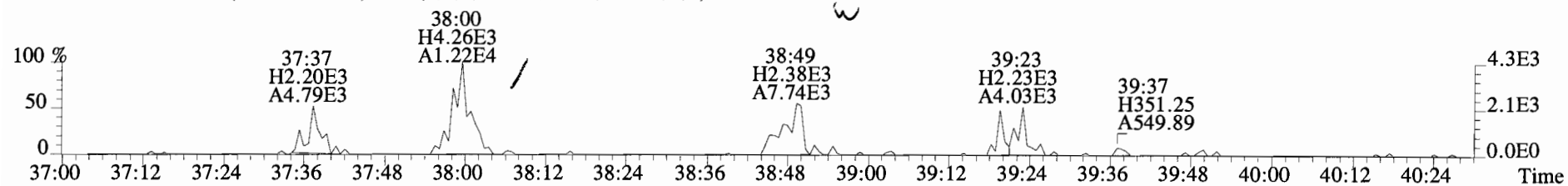
380.9760 S:8 F:3



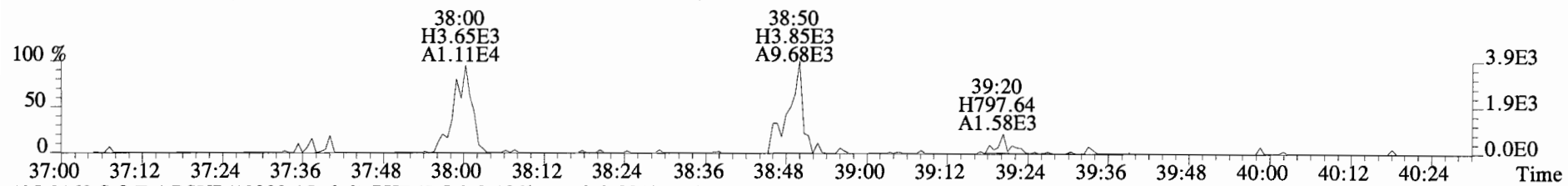
File:140922D1 #1-386 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



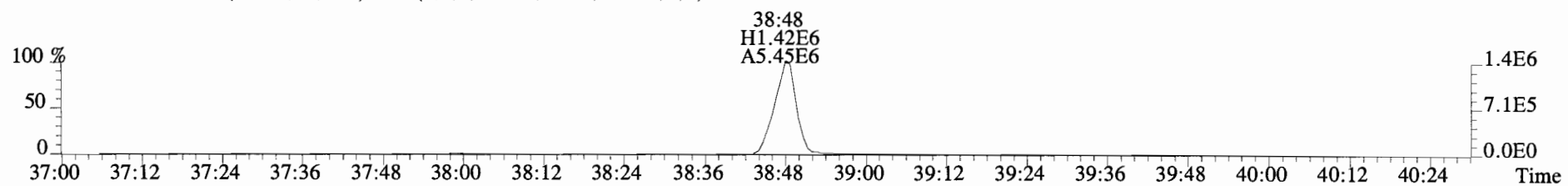
File:140922D1 #1-325 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



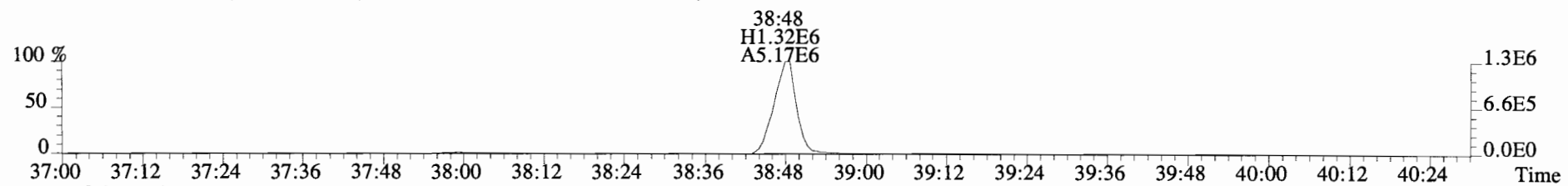
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



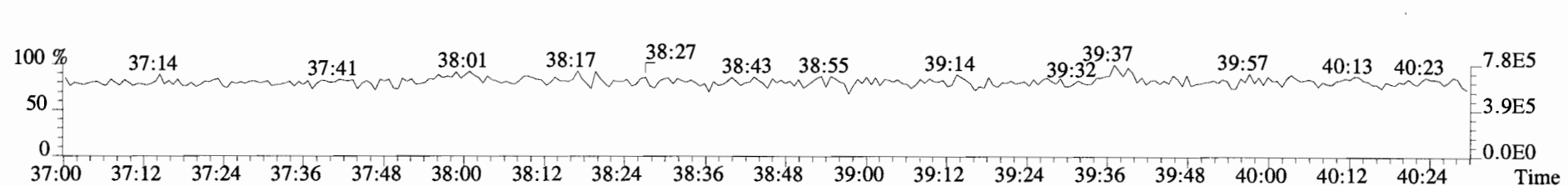
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



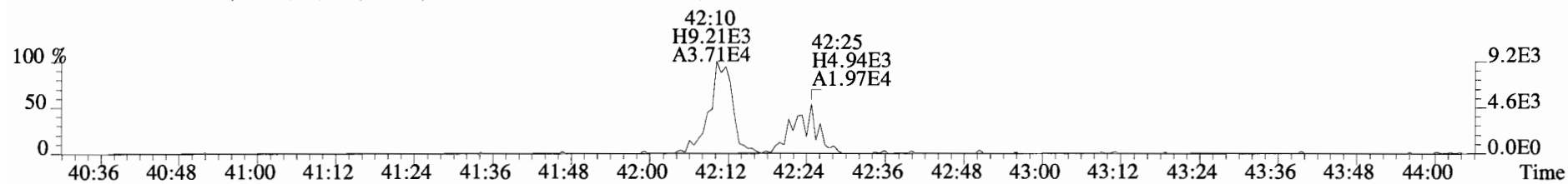
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



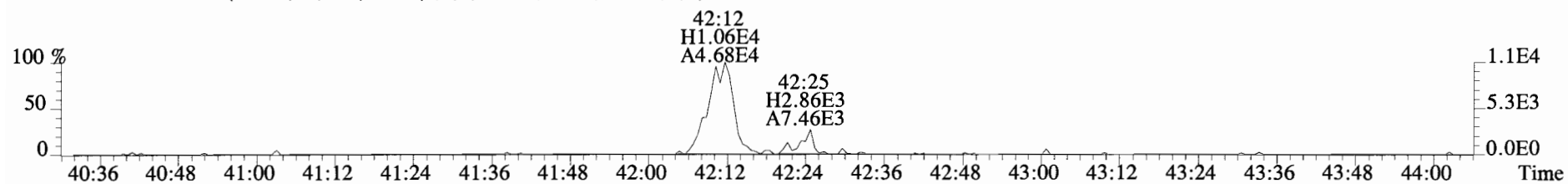
430.9728 S:8 F:4



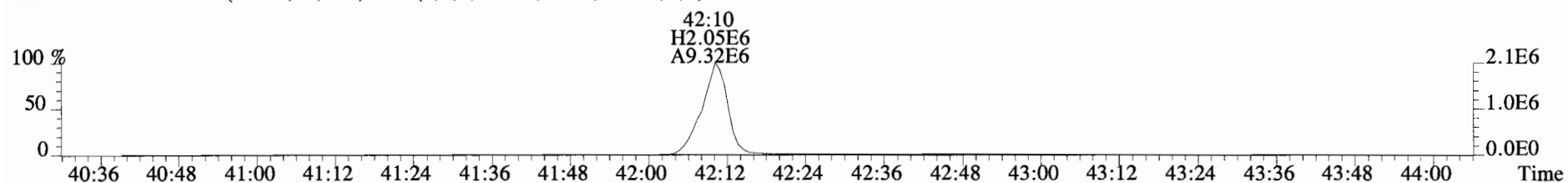
File:140922D1 #1-389 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



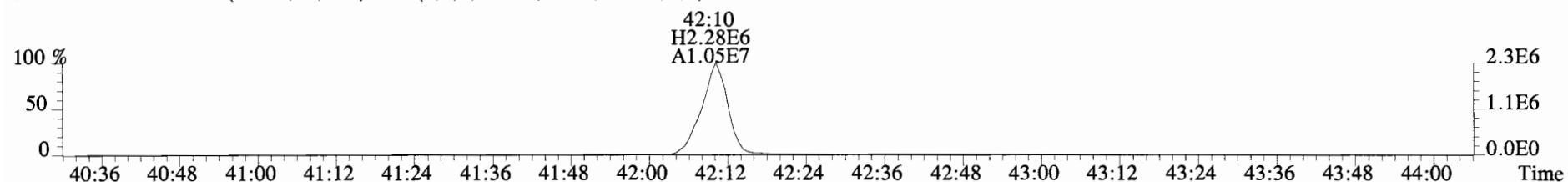
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



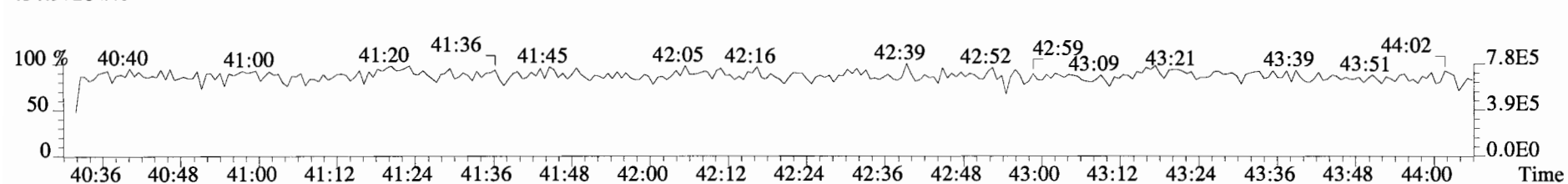
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



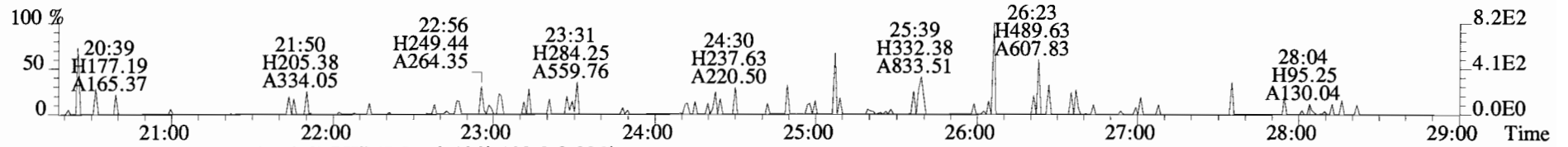
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



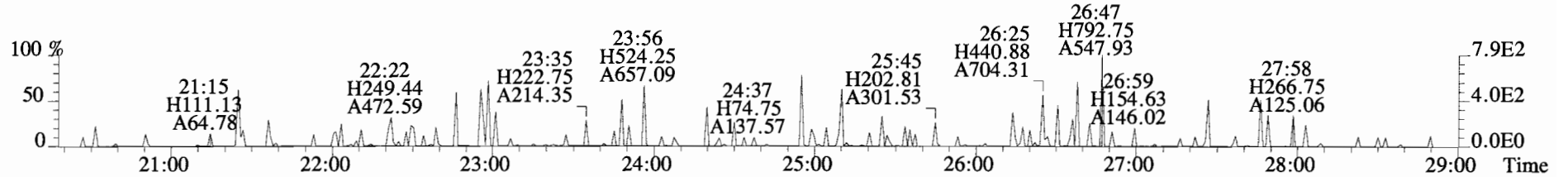
454.9728 S:8 F:5



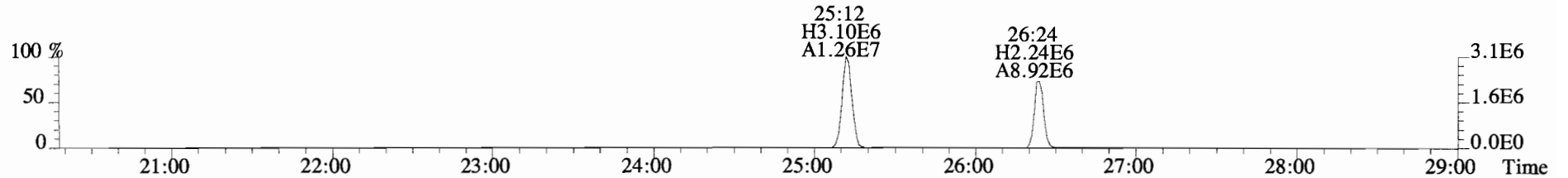
File:140922D1 #1-551 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



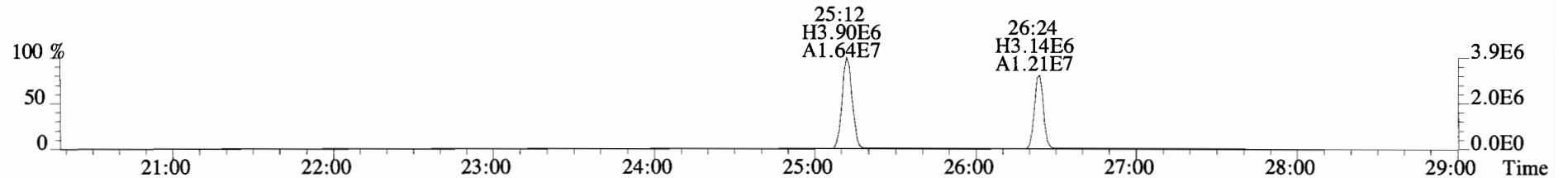
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



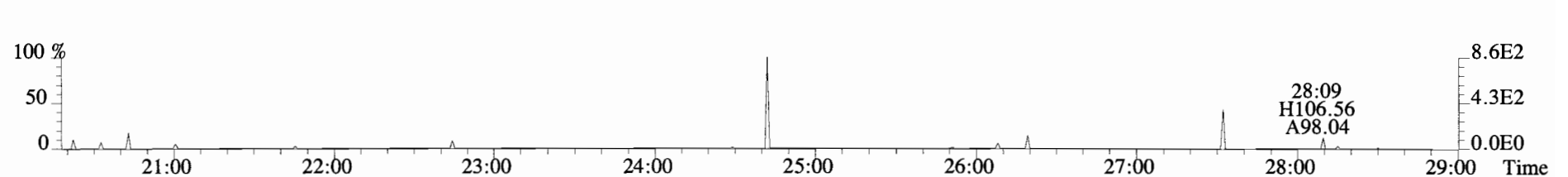
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



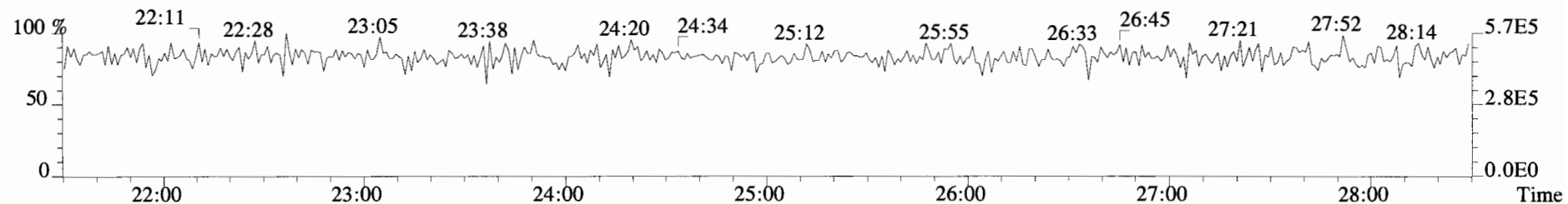
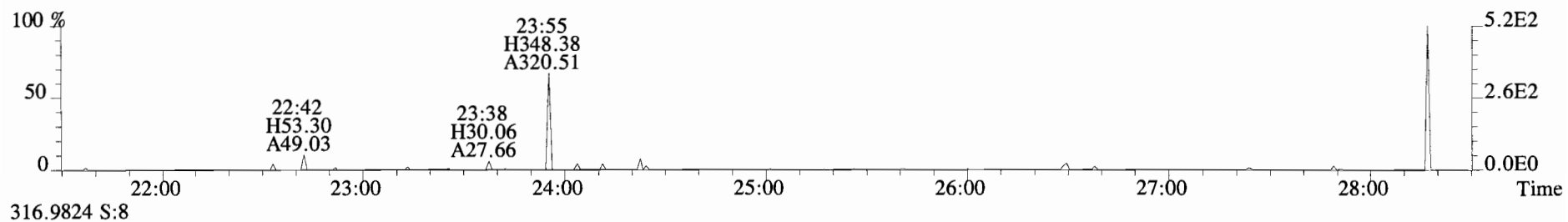
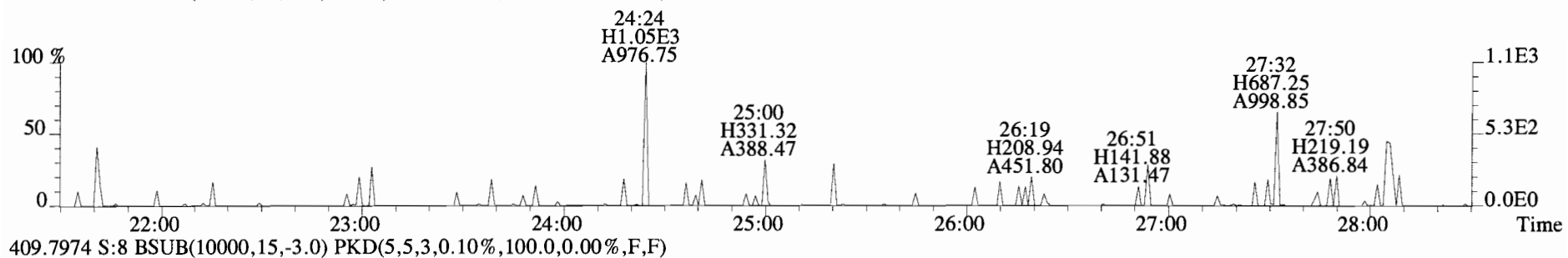
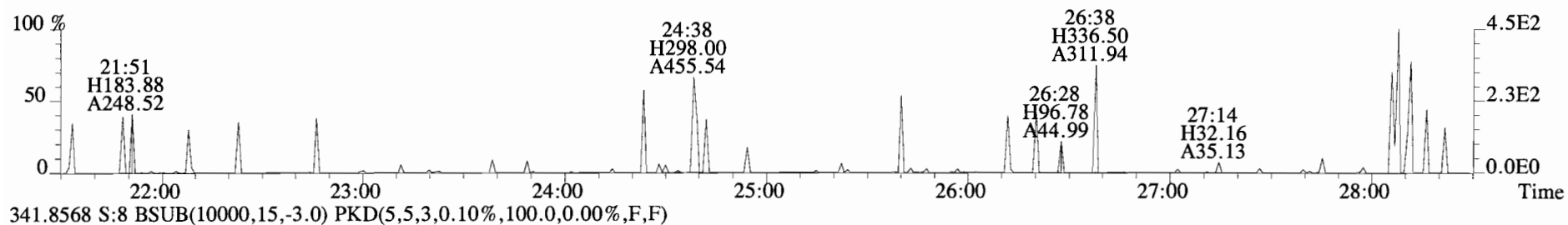
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

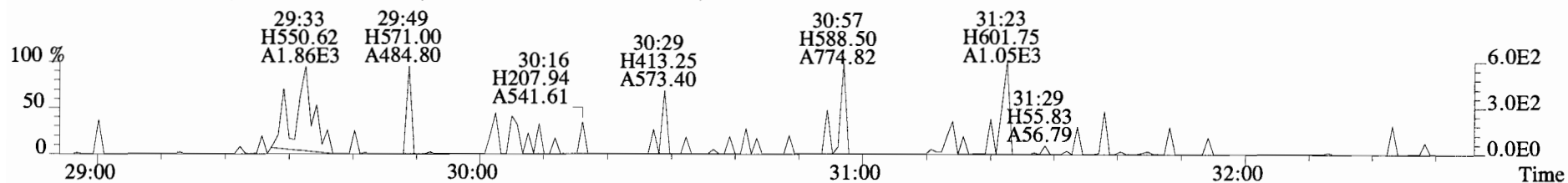


File:140922D1 #1-551 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

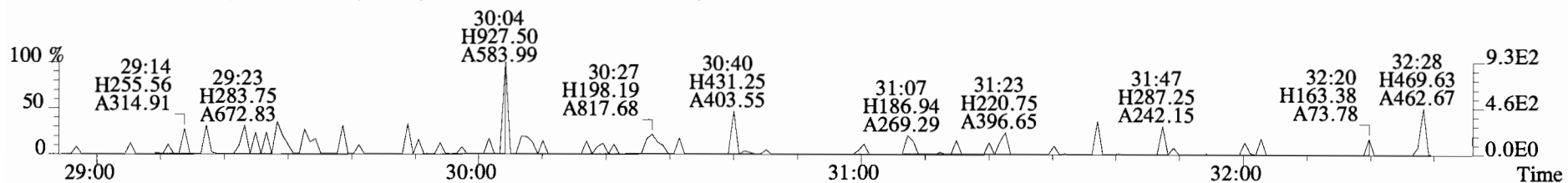




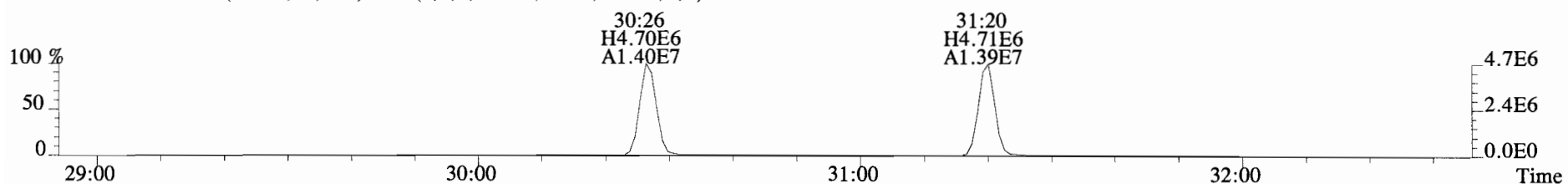
File:140922D1 #1-256 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



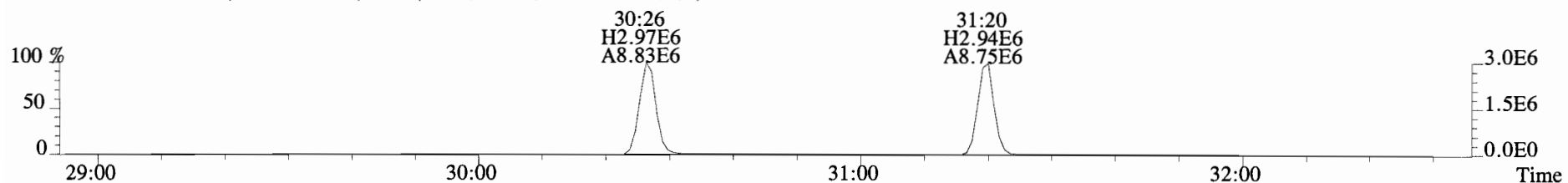
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



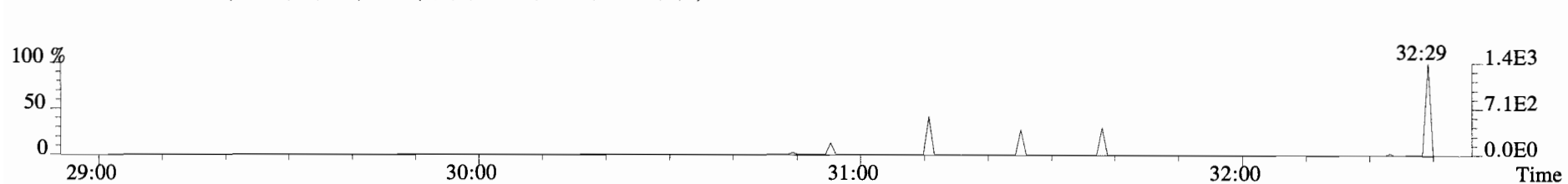
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



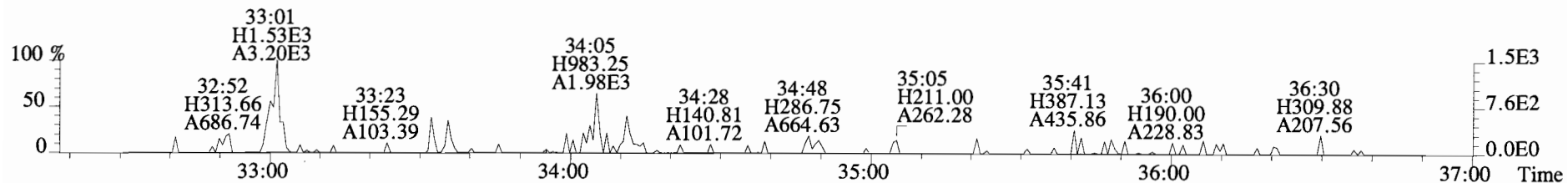
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



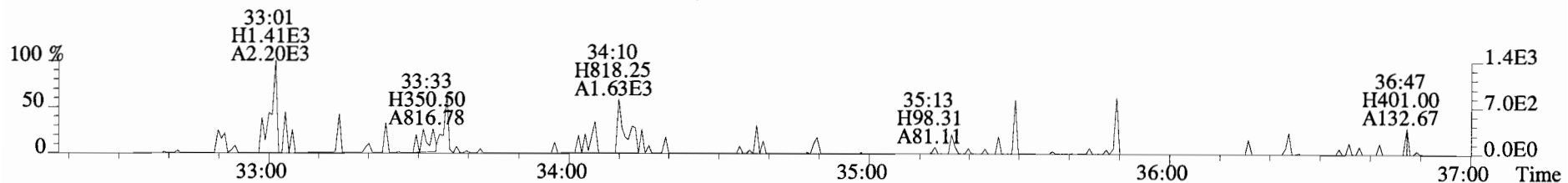
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



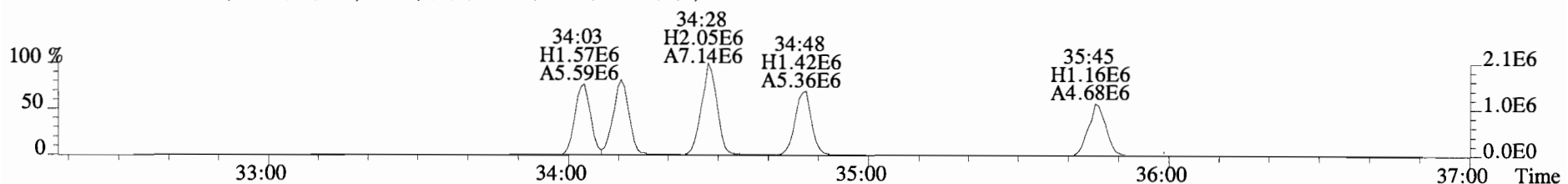
File:140922D1 #1-386 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



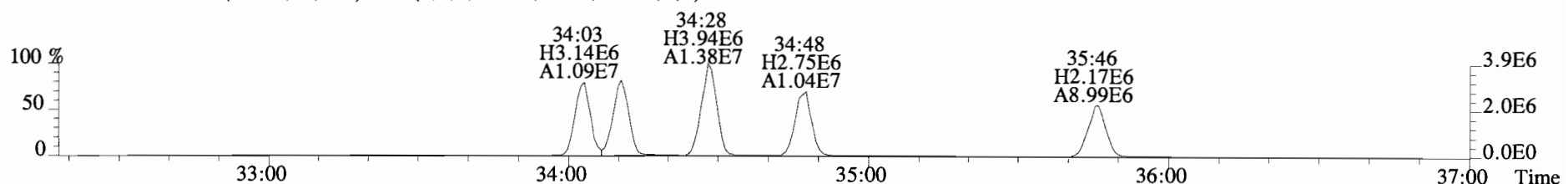
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



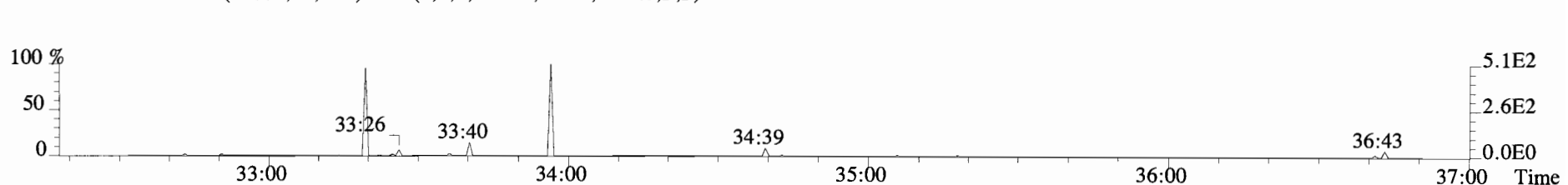
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



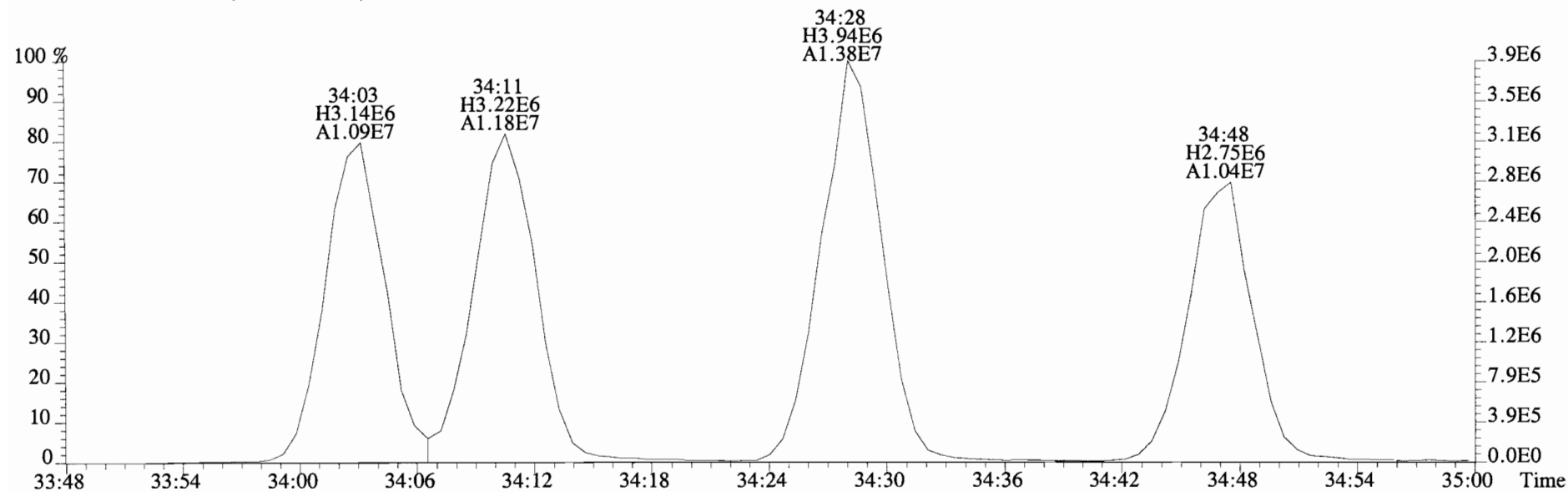
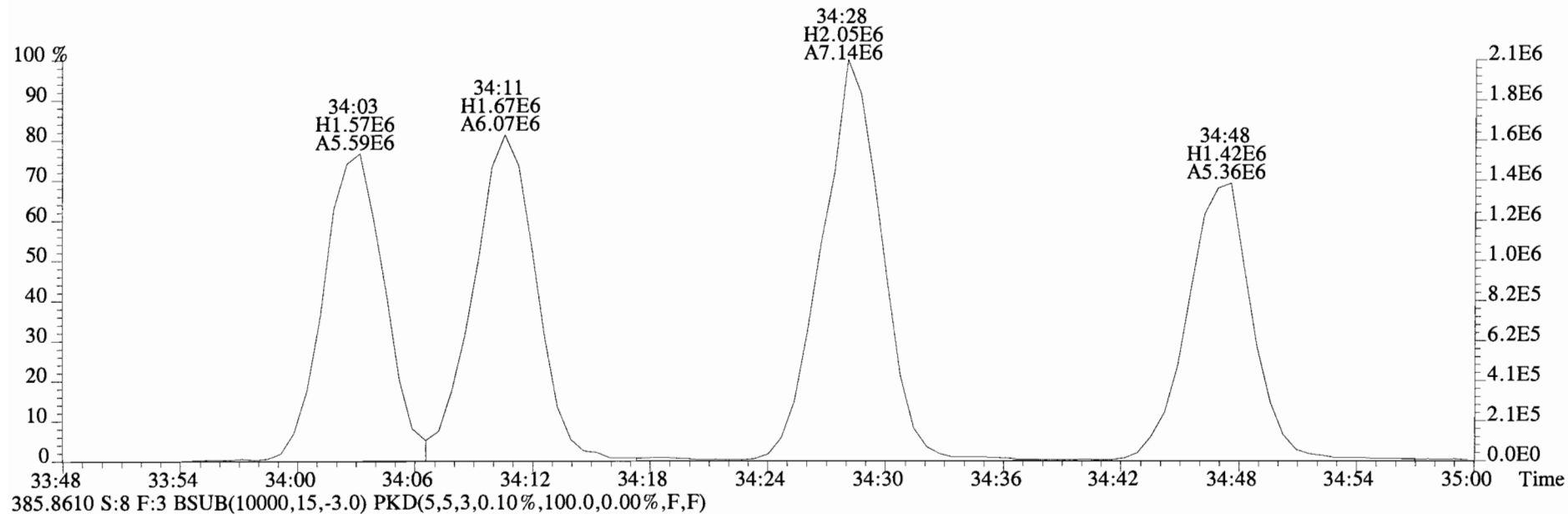
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



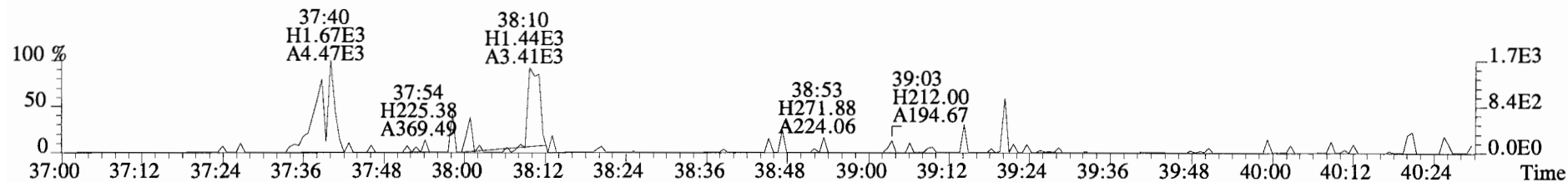
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



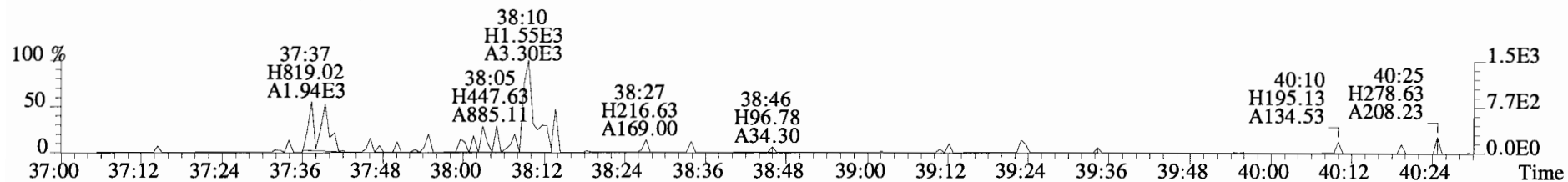
File:140922D1 #1-386 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



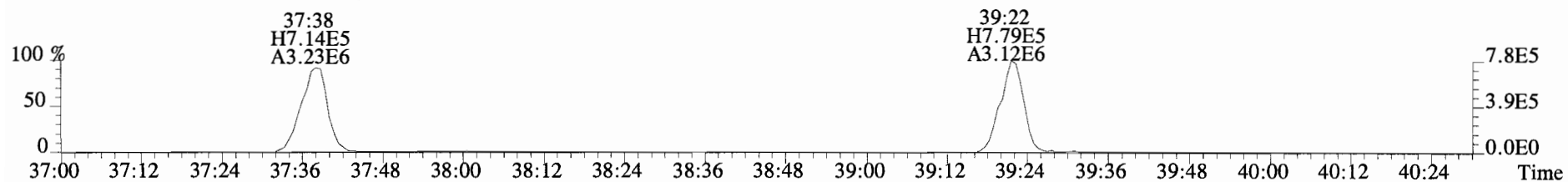
File:140922D1 #1-325 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



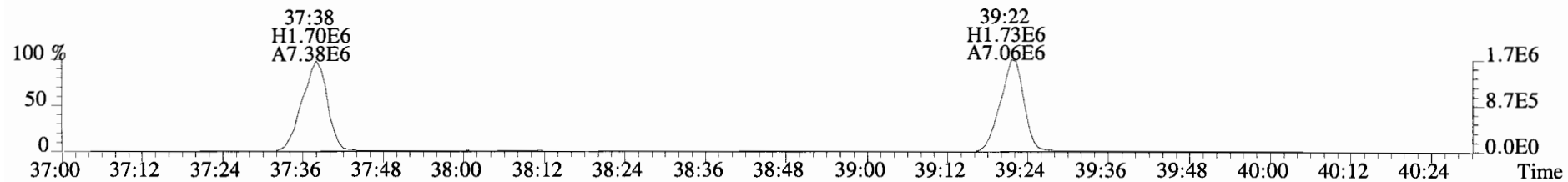
409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



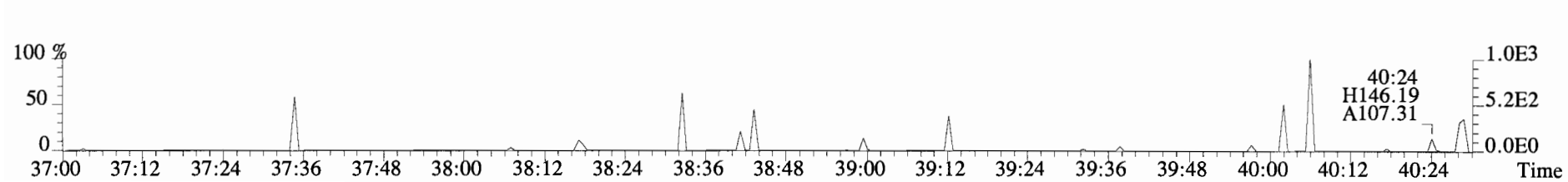
417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



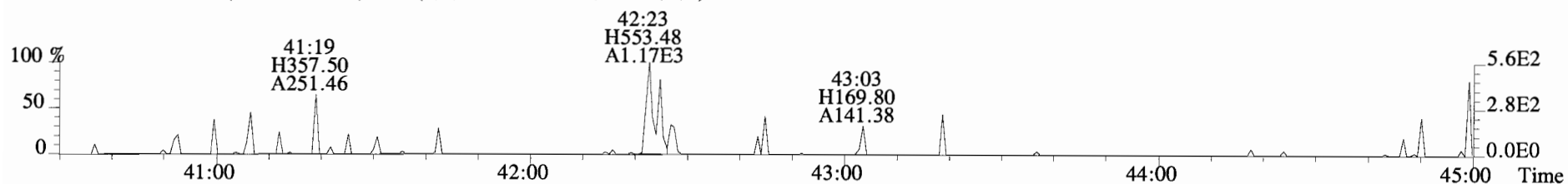
419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



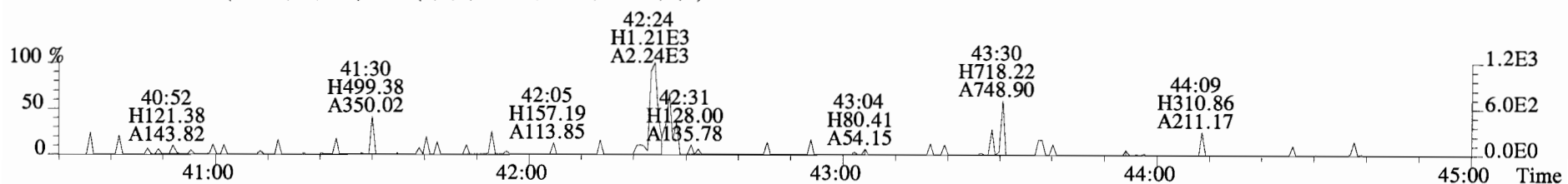
479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



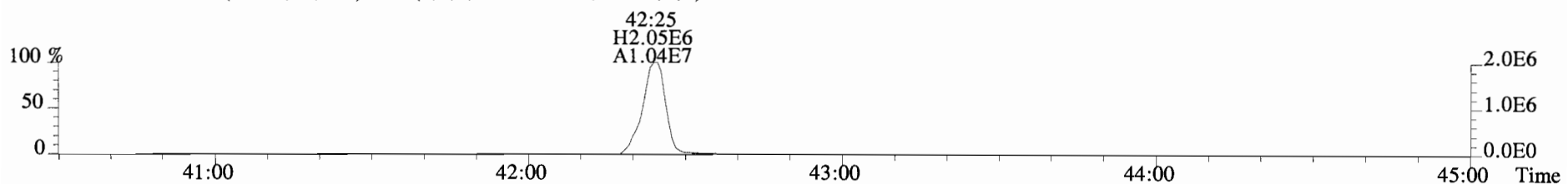
File:140922D1 #1-389 Acq:22-SEP-2014 19:11:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1400668-01 CS-TS-01-20140903-W 1.00019 Exp:OCDD\_DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



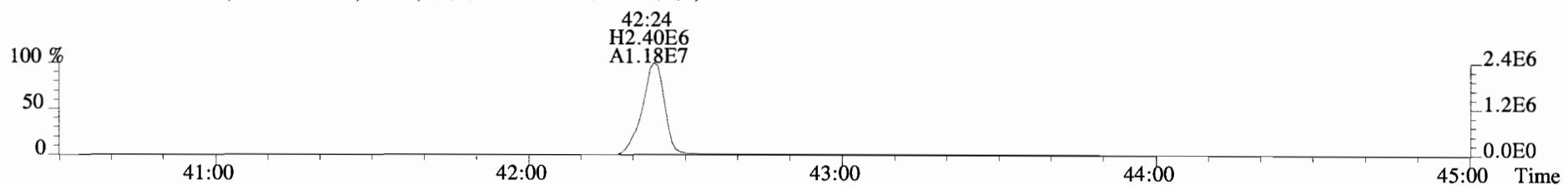
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



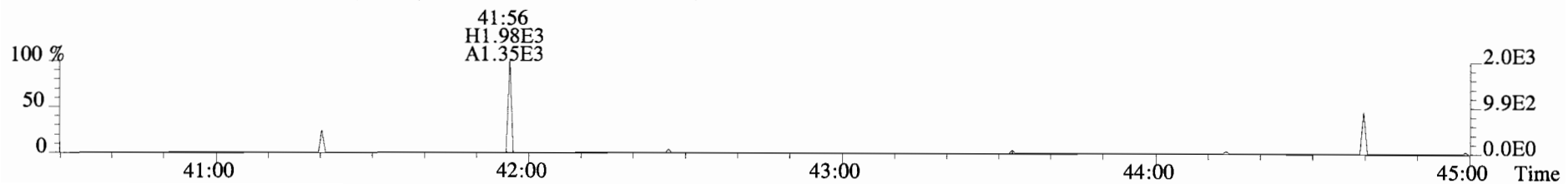
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
2,3,7,8-TCDD	*	* n	1.03	NotF $\eta$	*	*		316	2.5	0.563
1,2,3,7,8-PeCDD	*	* n	0.84	NotF $\eta$	*	*		812	2.5	1.17
1,2,3,4,7,8-HxCDD	*	* n	1.05	NotF $\eta$	*	*		662	2.5	1.93
1,2,3,6,7,8-HxCDD	*	* n	1.04	NotF $\eta$	*	*		662	2.5	2.05
1,2,3,7,8,9-HxCDD	*	* n	0.90	NotF $\eta$	*	*		662	2.5	2.01
1,2,3,4,6,7,8-HpCDD	7.50e+04	1.30 n	1.01	38:48	1.000	12.992		*	2.5	*
OCDD	5.36e+05	0.85 y	1.04	42:11	1.000	92.728		*	2.5	*
2,3,7,8-TCDF	*	* n	0.91	NotF $\eta$	*	*		1290	2.5	1.97
1,2,3,7,8-PeCDF	*	* n	0.97	NotF $\eta$	*	*		497	2.5	0.734
2,3,4,7,8-PeCDF	*	* n	0.94	NotF $\eta$	*	*		497	2.5	0.755
1,2,3,4,7,8-HxCDF	*	* n	1.32	NotF $\eta$	*	*		720	2.5	0.756
1,2,3,6,7,8-HxCDF	*	* n	1.18	NotF $\eta$	*	*		720	2.5	0.829
2,3,4,6,7,8-HxCDF	*	* n	1.23	NotF $\eta$	*	*		975	2.5	1.40
1,2,3,7,8,9-HxCDF	*	* n	1.13	NotF $\eta$	*	*		720	2.5	1.25
1,2,3,4,6,7,8-HpCDF	2.83e+04	1.04 y	1.57	37:37	1.000	3.0762		*	2.5	*
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	NotF $\eta$	*	*		584	2.5	0.970
OCDF	2.97e+04	1.10 n	1.05	42:25	1.000	4.5519		*	2.5	*

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*	*	316	0.563
Total Penta-Dioxins	*	*	*	812	1.17
Total Hexa-Dioxins	*	3.59	*	*	*
Total Hepta-Dioxins	19.7	32.7	*	*	*
Total Tetra-Furans	*	*	*	1290	1.97
Total Penta-Furans	1.2734	1.2734	*	*	*
Total Hexa-Furans	2.87	2.87	*	*	*
Total Hepta-Furans	5.70	5.70	*	*	*

	Rec	Qual
IS 13C-2,3,7,8-TCDD	1.76e+07	0.79 y 1.06 27:09 1.021 1466.0
IS 13C-1,2,3,7,8-PeCDD	2.08e+07	0.62 y 1.08 31:36 1.188 1700.2
IS 13C-1,2,3,4,7,8-HxCDD	1.36e+07	1.24 y 0.74 34:57 1.014 1709.9
IS 13C-1,2,3,6,7,8-HxCDD	1.34e+07	1.23 y 0.75 35:04 1.017 1675.6
IS 13C-1,2,3,7,8,9-HxCDD	1.62e+07	1.22 y 0.89 35:22 1.026 1697.0
IS 13C-1,2,3,4,6,7,8-HpCDD	1.15e+07	1.08 y 0.70 38:48 1.126 1526.3
IS 13C-OCDD	2.23e+07	0.90 y 0.59 42:10 1.223 3532.4
IS 13C-2,3,7,8-TCDF	2.29e+07	0.76 y 0.97 26:23 0.992 1591.0
IS 13C-1,2,3,7,8-PeCDF	2.53e+07	1.58 y 0.99 30:26 1.144 1714.7
IS 13C-2,3,4,7,8-PeCDF	2.59e+07	1.60 y 1.01 31:20 1.178 1723.0
IS 13C-1,2,3,4,7,8-HxCDF	1.76e+07	0.51 y 0.94 34:03 0.988 1754.0
IS 13C-1,2,3,6,7,8-HxCDF	1.92e+07	0.51 y 1.23 34:10 0.991 1460.9
IS 13C-2,3,4,6,7,8-HxCDF	1.70e+07	0.52 y 1.03 34:47 1.009 1535.0
IS 13C-1,2,3,7,8,9-HxCDF	1.51e+07	0.51 y 0.89 35:45 1.037 1593.6
IS 13C-1,2,3,4,6,7,8-HpCDF	1.17e+07	0.44 y 0.71 37:37 1.092 1550.4
IS 13C-1,2,3,4,7,8,9-HpCDF	1.09e+07	0.44 y 0.64 39:22 1.142 1580.3
IS 13C-OCDF	2.48e+07	0.92 y 0.76 42:24 1.230 3059.3

C/Up 37C1-2,3,7,8-TCDD	7.97e+06		1.04	27:10	1.022	675.04	84.1
RS/RT 13C-1,2,3,4-TCDD	2.27e+07	0.81 y	1.00	26:36	*	2005.7	
RS 13C-1,2,3,4-TCDF	2.99e+07	0.75 y	1.00	25:12	*	2005.7	
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.14e+07	0.52 y	1.00	34:28	*	2005.7	

Integrations  
 by  
 Analyst: MO  
 Date: 9/23/14

Reviewed  
 by  
 Analyst: g2  
 Date: 9/23/14

Totals class: HxCDD EMPC

Entry #: 23

Run: 14 File: 140922D1 S: 9 I: 1 F: 3

Acquired: 22-SEP-14 20:00:03 Processed: 23-SEP-14 08:24:11

Total Concentration: 3.5949

Unnamed Concentration: 3.595

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
33:24	5.696e+03	5.972e+03	0.95	n	1.029e+04	1.4513
34:13	9.737e+03	6.785e+03	1.44	n	1.520e+04	2.1435

Totals class: HpCDD EMPC

Entry #: 25

Run: 14 File: 140922D1 S: 9 I: 1 F: 4

Acquired: 22-SEP-14 20:00:03 Processed: 23-SEP-14 08:24:11

Total Concentration: 32.731

Unnamed Concentration: 19.739

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:59	5.578e+04	5.815e+04	0.96	y	1.139e+05	19.739
38:48	4.794e+04	3.676e+04	1.30	n	7.499e+04	12.992 1,2,3,4,6,7,8-HpCDD



Totals class: 1st Func. PeCDF EMPC                      Entry #: 29

Run: 14                      File: 140922D1                      S: 9 I: 1 F: 1  
Acquired: 22-SEP-14 20:00:03                      Processed: 23-SEP-14 08:24:11

Total Concentration: 1.2734                      Unnamed Concentration: 1.273

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:07	8.911e+03	6.594e+03	1.35 y	1.550e+04	1.2734

Totals class: HxCDF EMPC

Entry #: 33

Run: 14 File: 140922D1 S: 9 I: 1 F: 3

Acquired: 22-SEP-14 20:00:03 Processed: 23-SEP-14 08:24:11

Total Concentration: 2.8729

Unnamed Concentration: 2.873

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
32:51	3.617e+03	2.626e+03	1.38 y	6.244e+03	0.60019	
33:01	1.386e+04	9.783e+03	1.42 y	2.364e+04	2.2727	

Totals class: HpCDF EMPC

Entry #: 35

Run: 14 File: 140922D1 S: 9 I: 1 F: 4

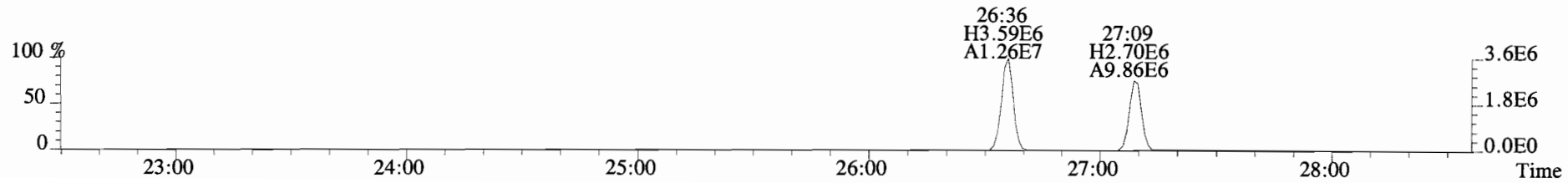
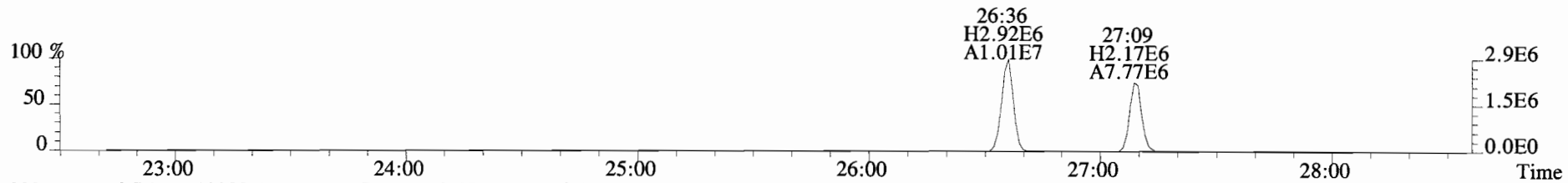
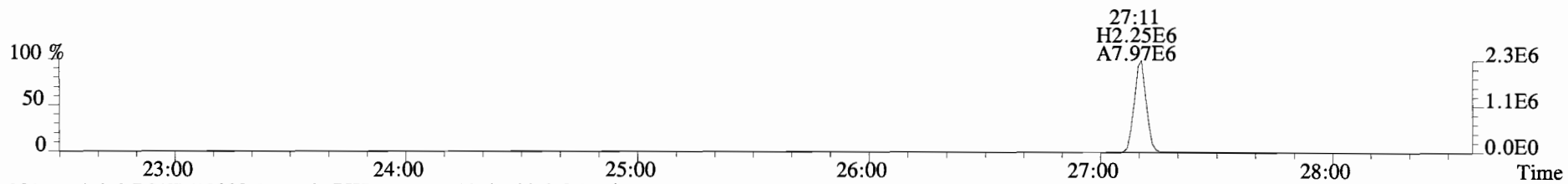
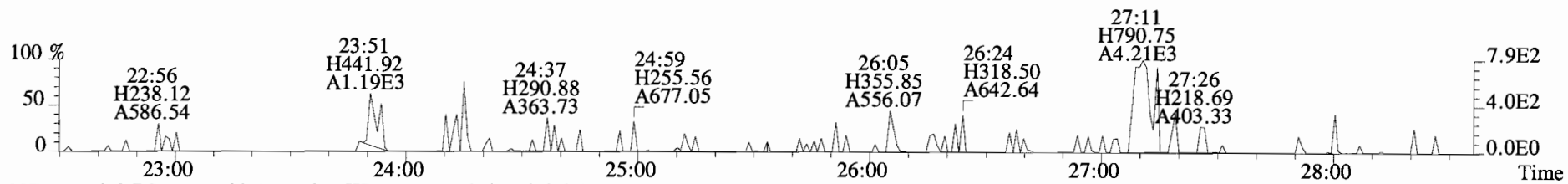
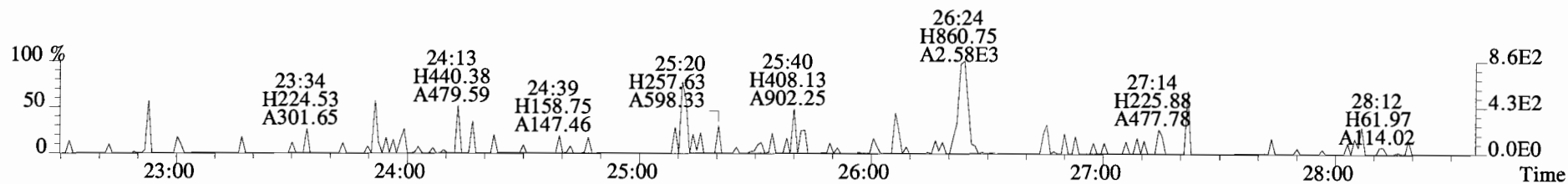
Acquired: 22-SEP-14 20:00:03 Processed: 23-SEP-14 08:24:11

Total Concentration: 5.7046

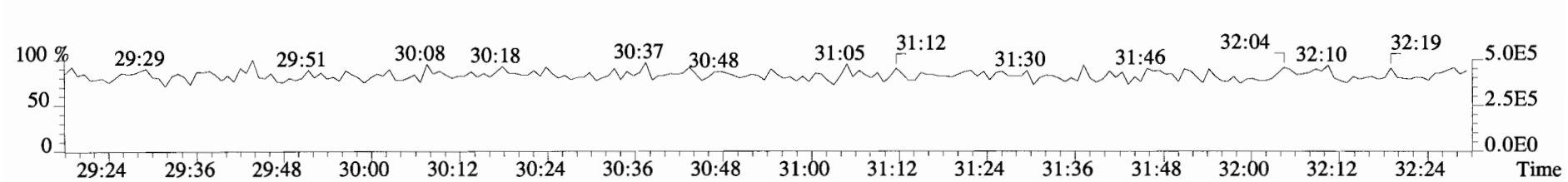
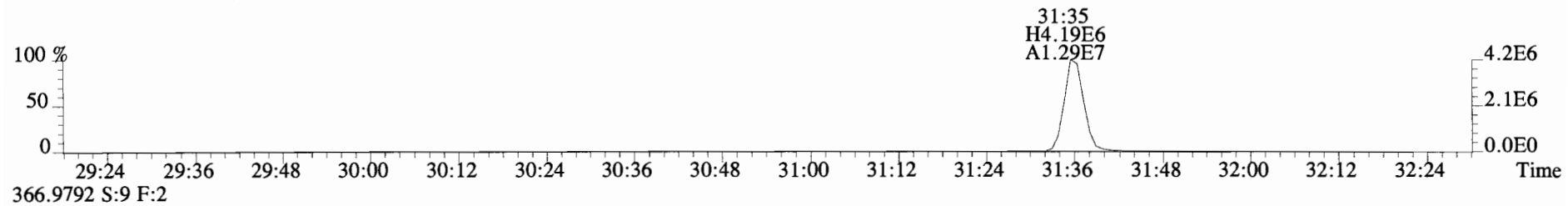
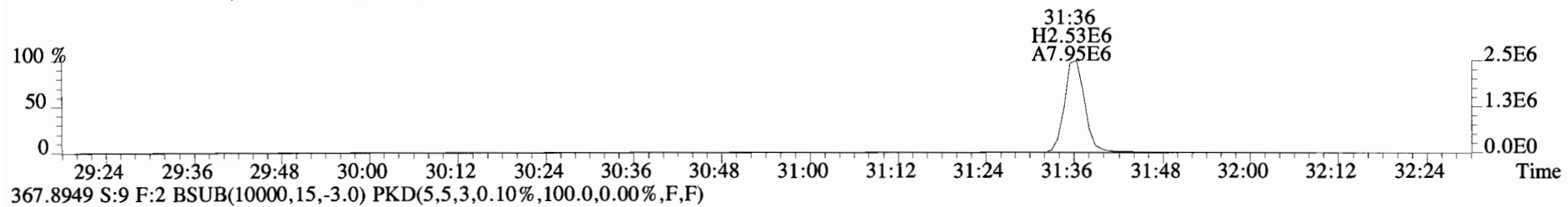
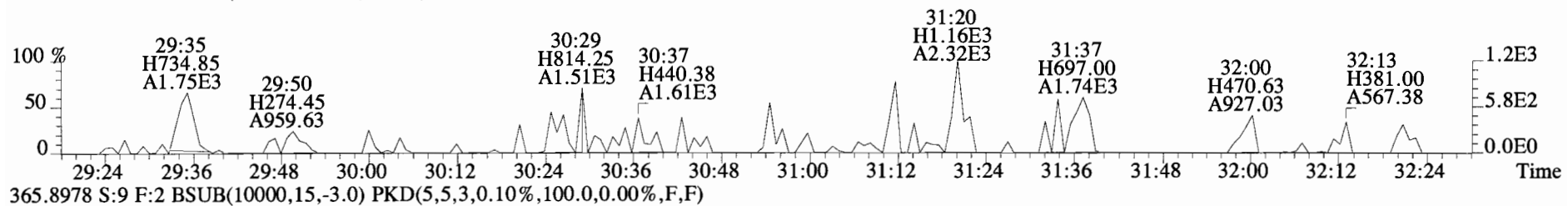
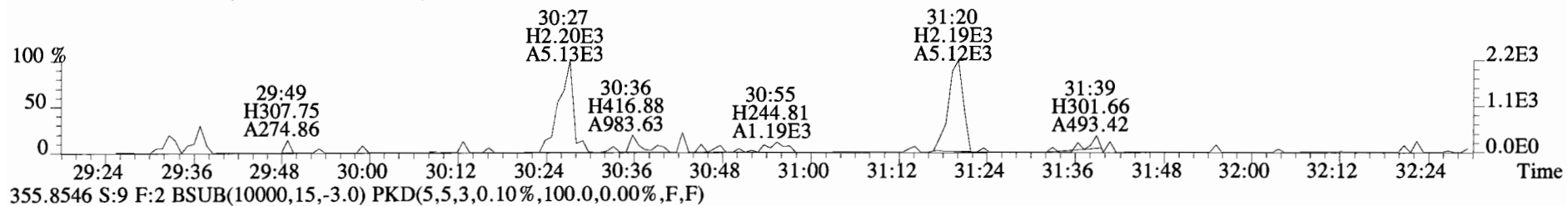
Unnamed Concentration: 2.628

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:37	1.441e+04	1.384e+04	1.04 y	2.825e+04	3.0762	1,2,3,4,6,7,8-HpCDF
38:10	1.207e+04	1.069e+04	1.13 y	2.276e+04	2.6284	

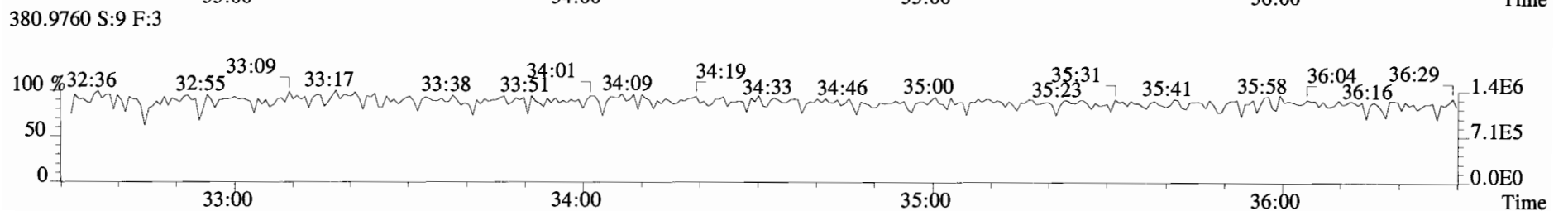
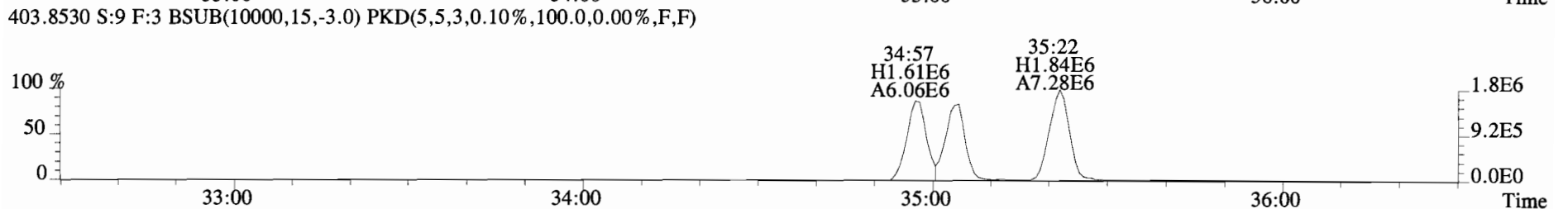
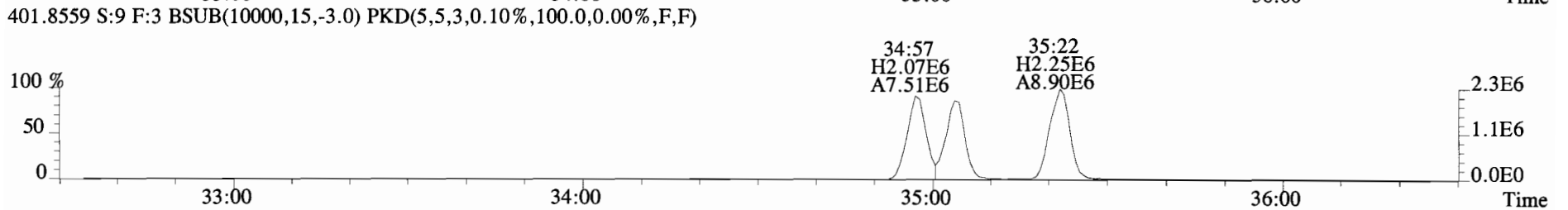
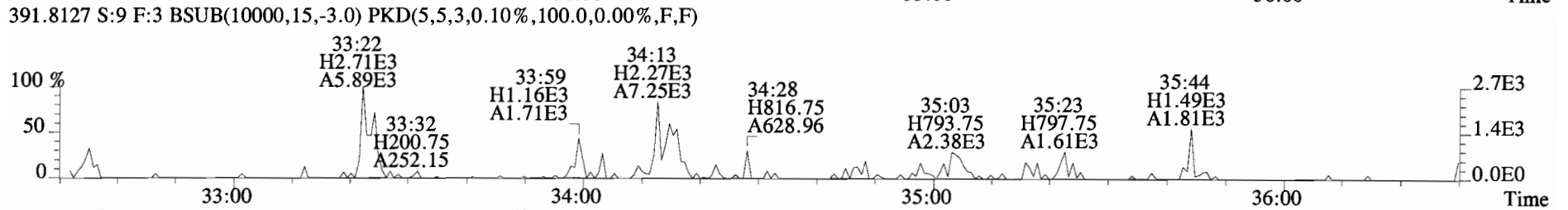
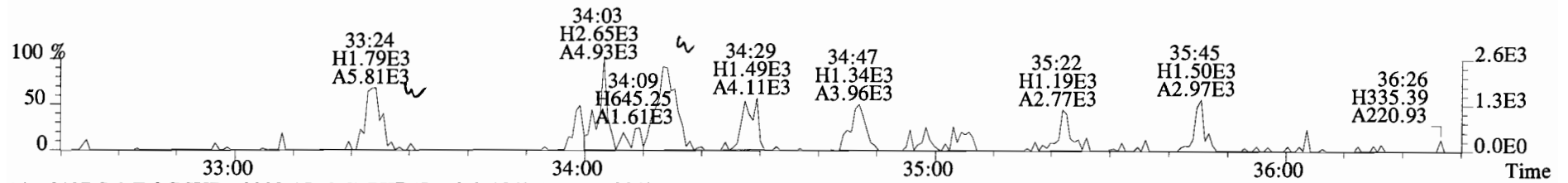
File:140922D1 #1-551 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



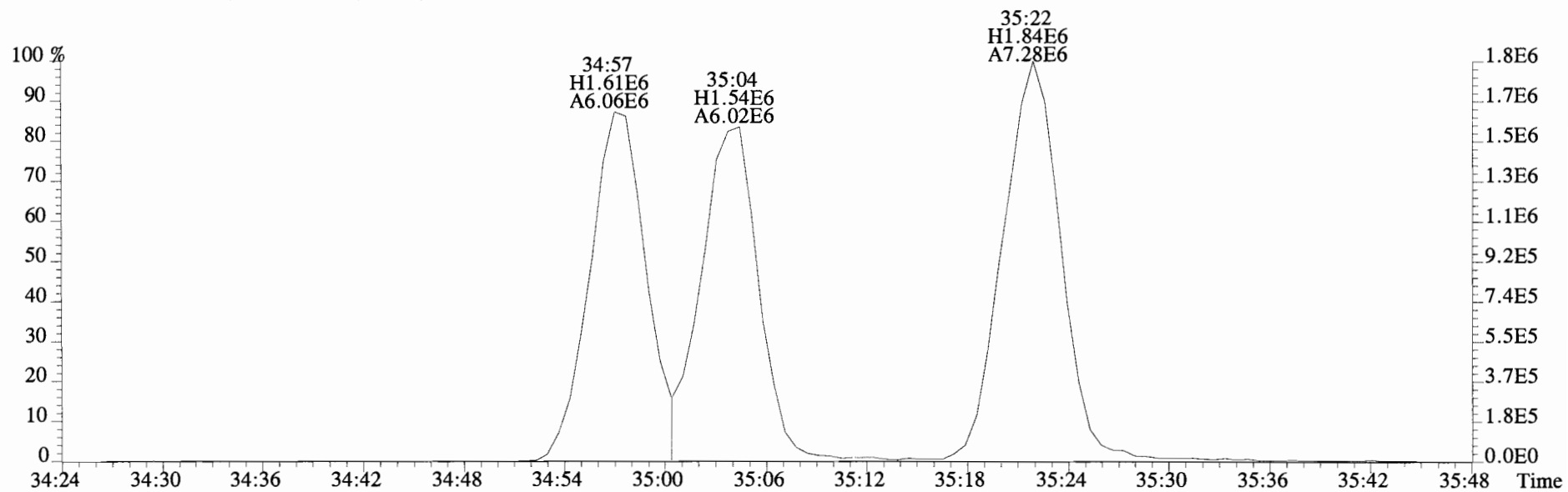
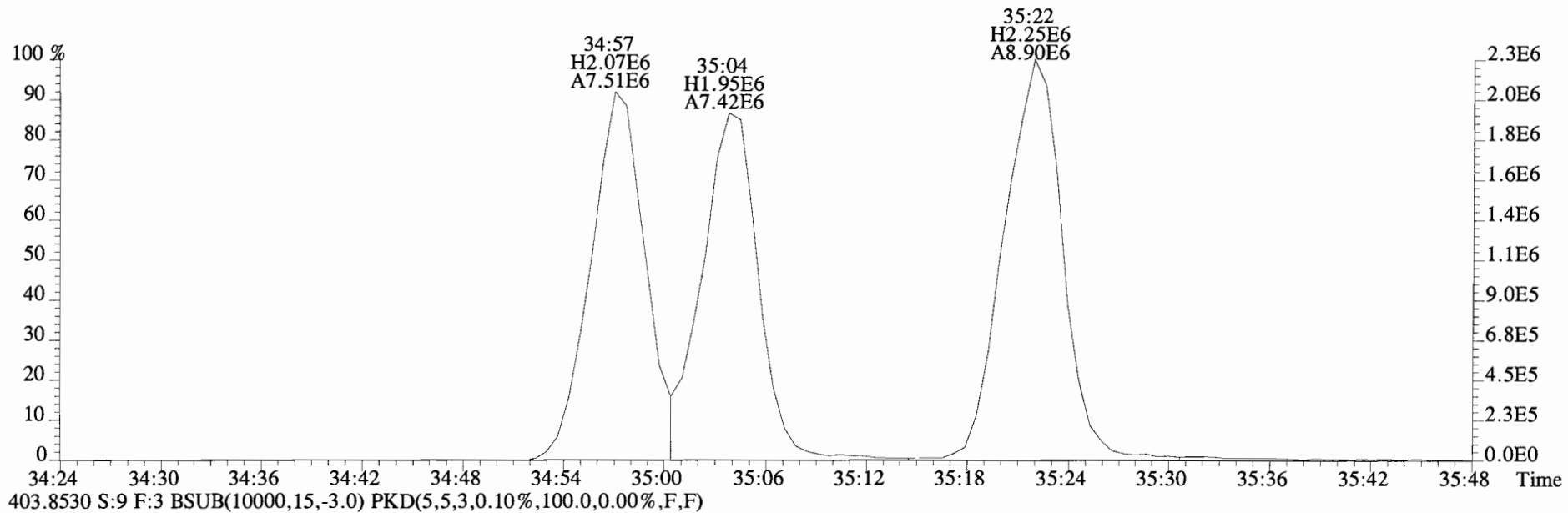
File:140922D1 #1-256 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



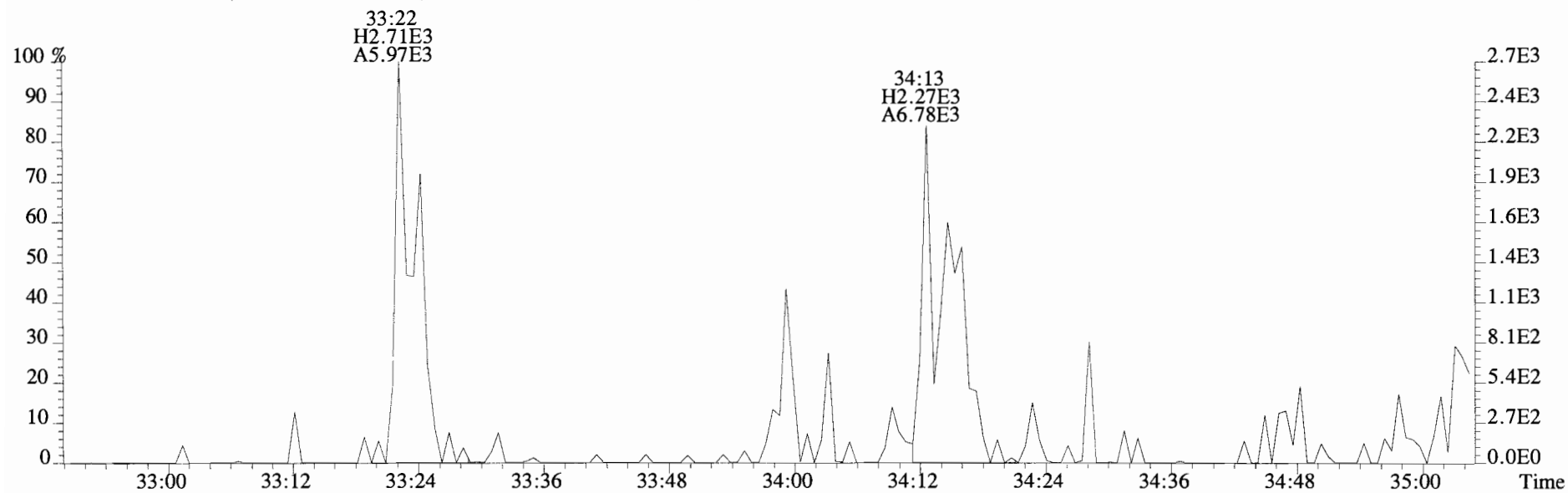
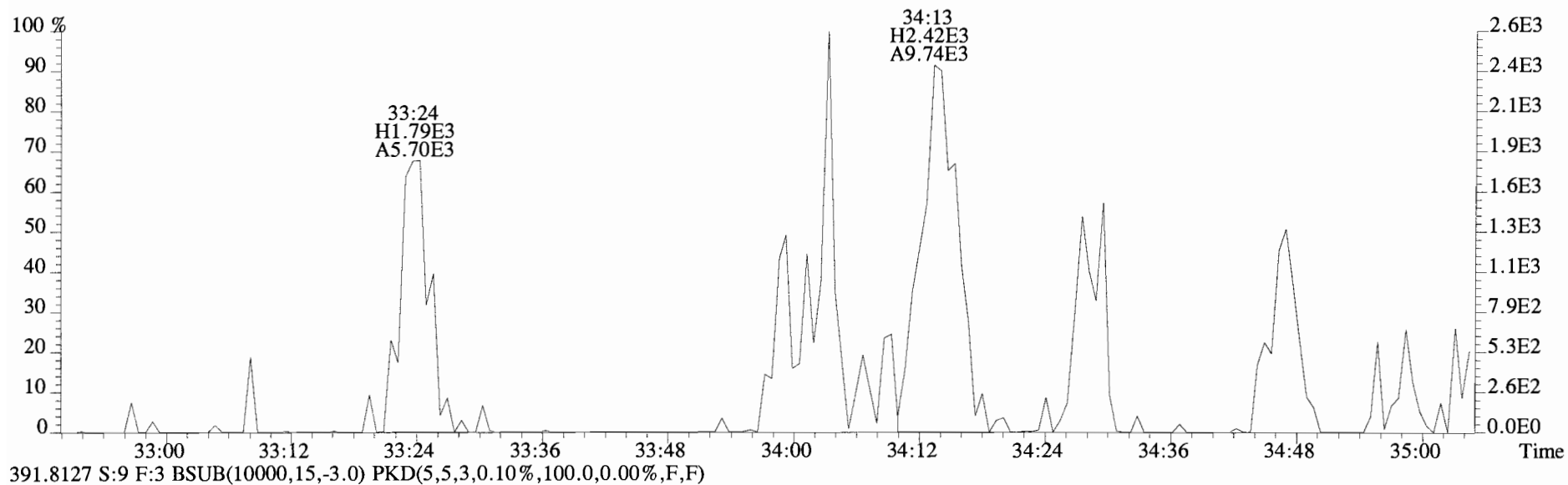
File:140922D1 #1-386 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140922D1 #1-386 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

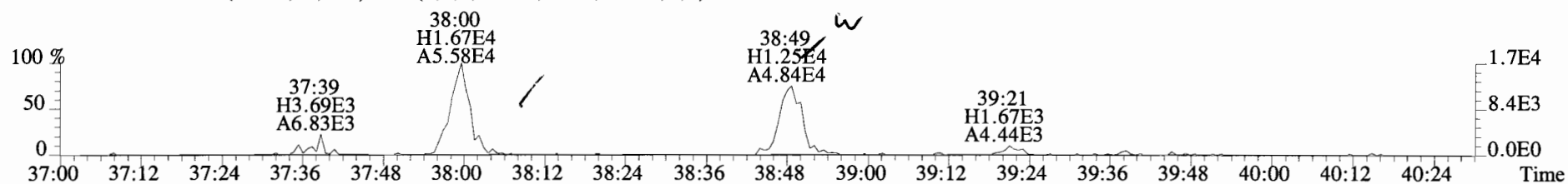


File:140922D1 #1-386 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

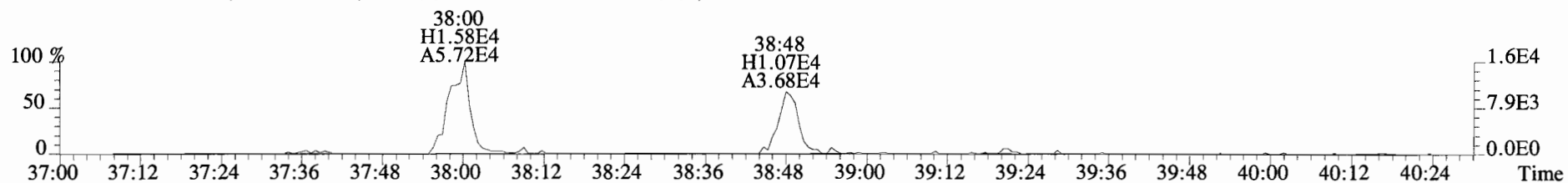




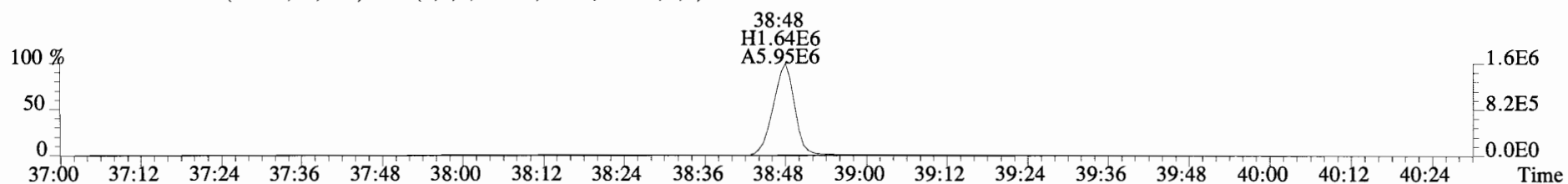
File:140922D1 #1-325 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



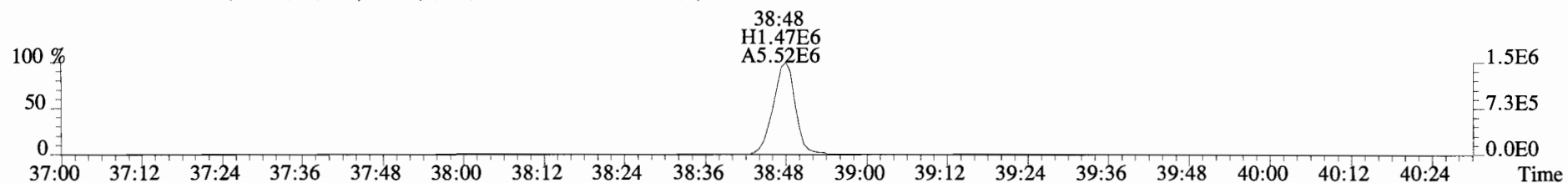
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



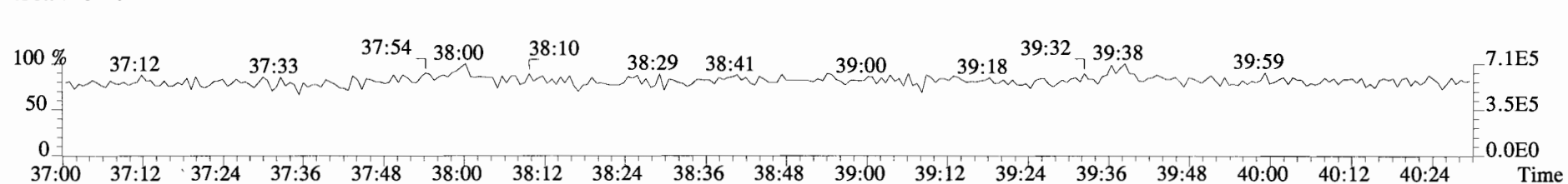
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



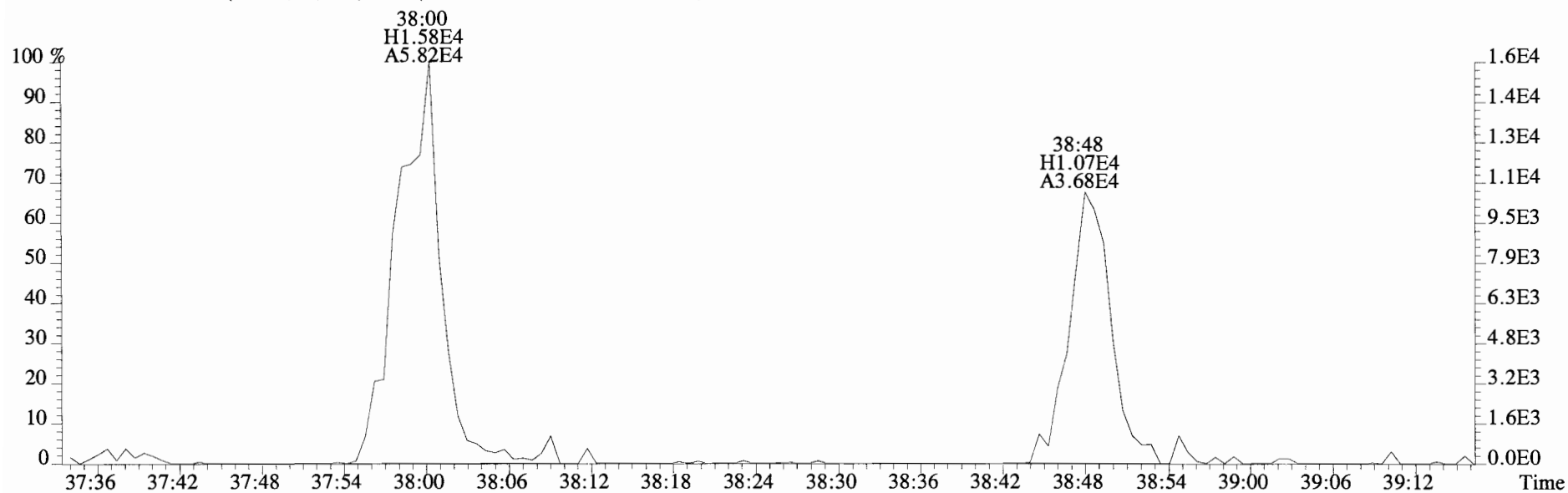
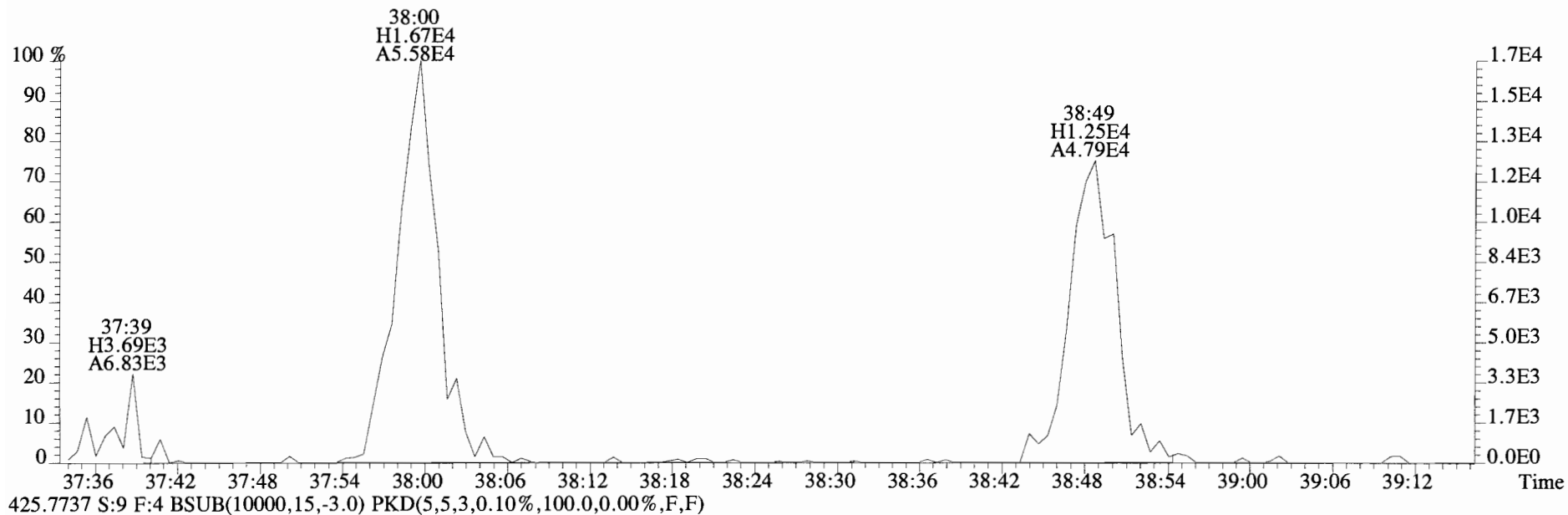
437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



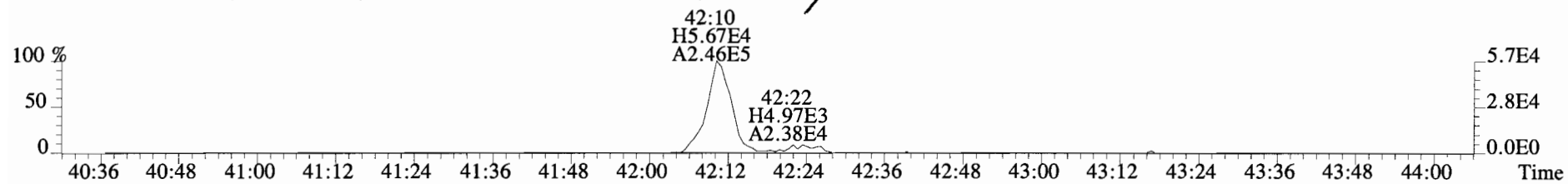
430.9728 S:9 F:4



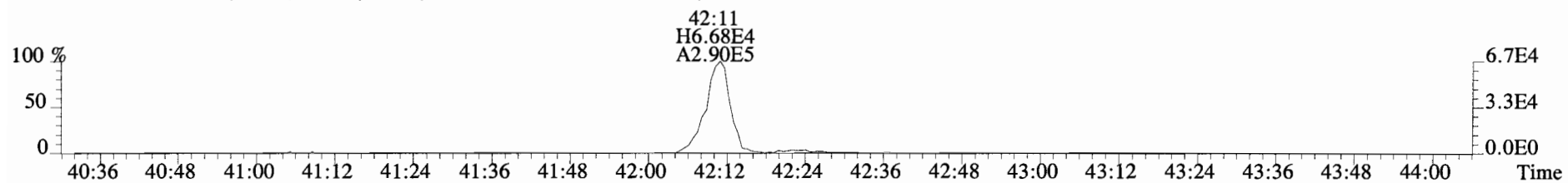
File:140922D1 #1-325 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



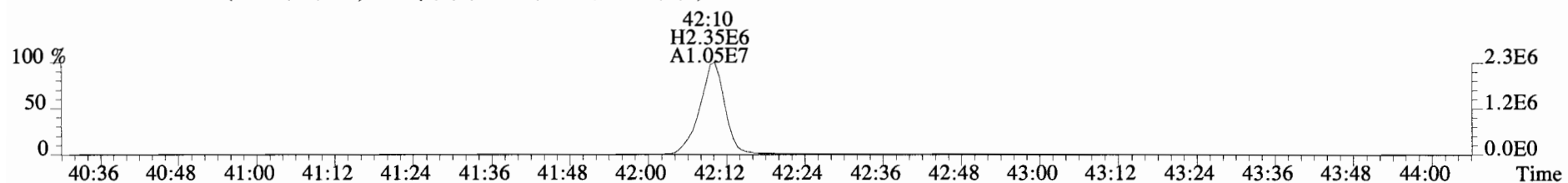
File:140922D1 #1-389 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



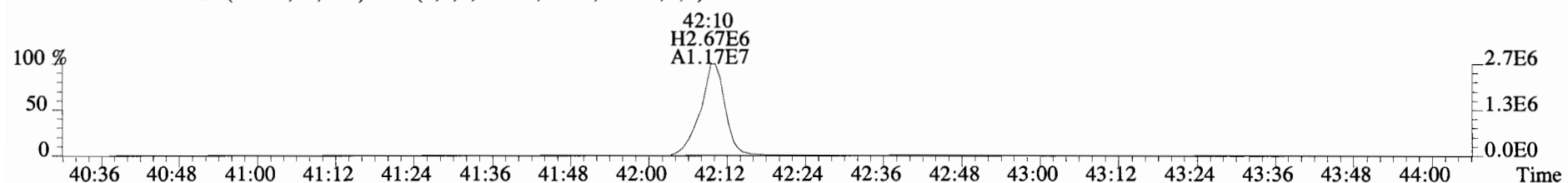
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



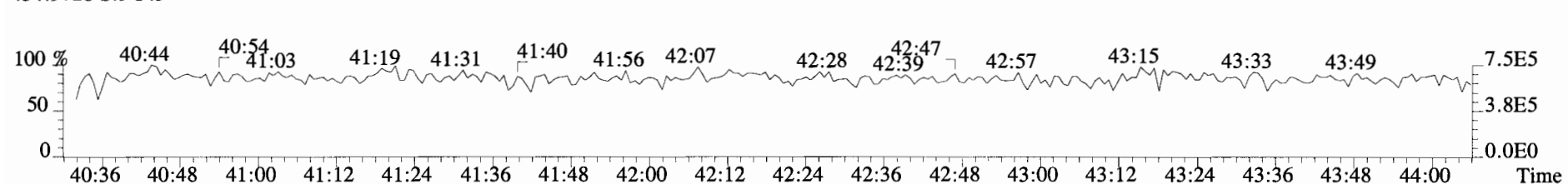
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



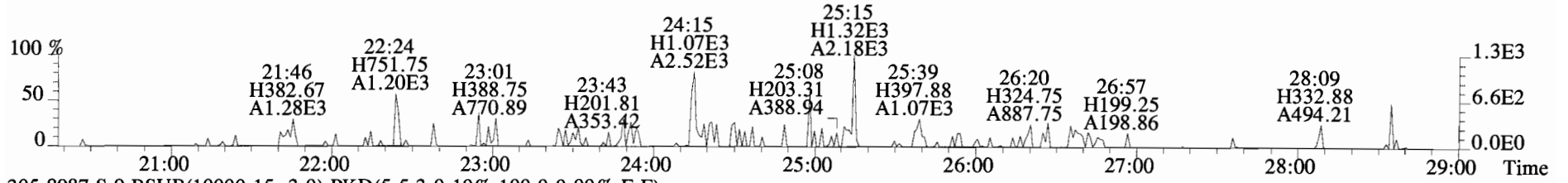
471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



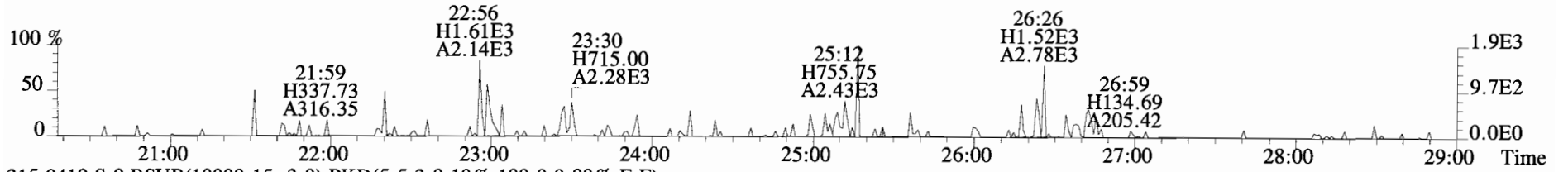
454.9728 S:9 F:5



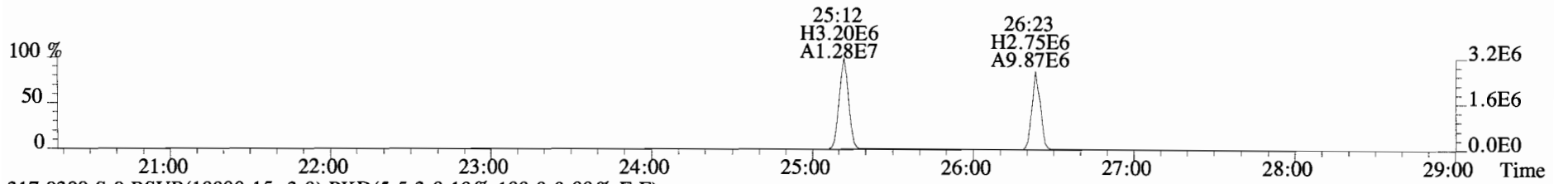
File:140922D1 #1-551 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



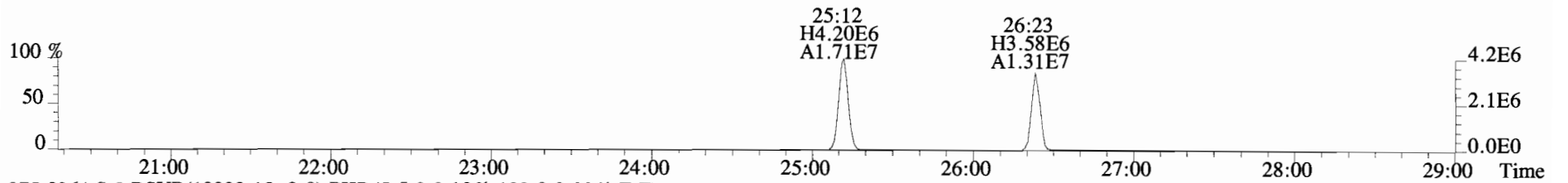
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



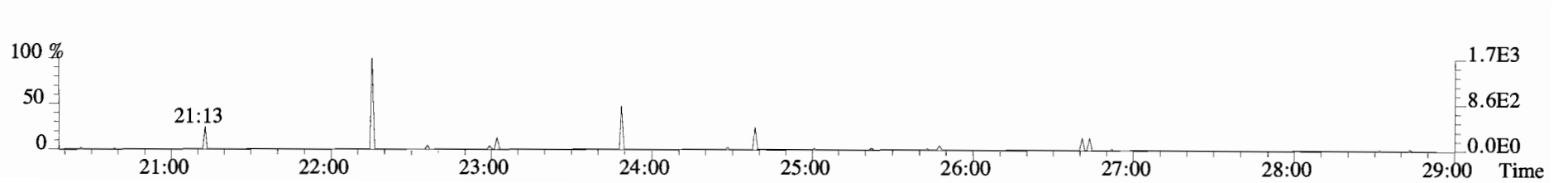
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



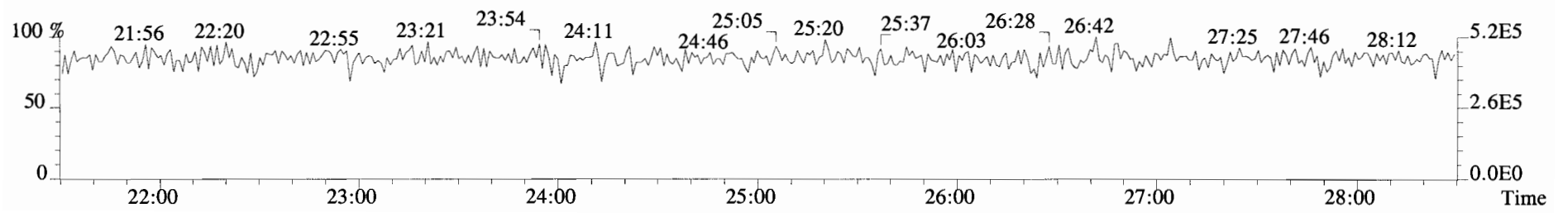
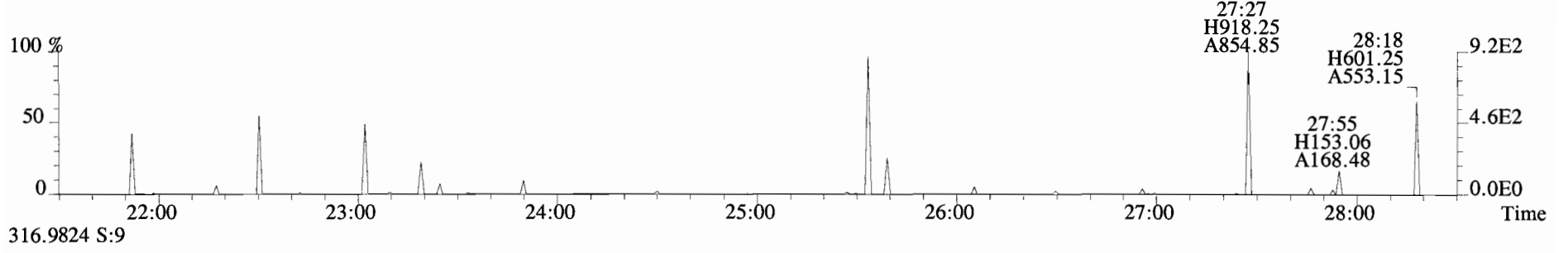
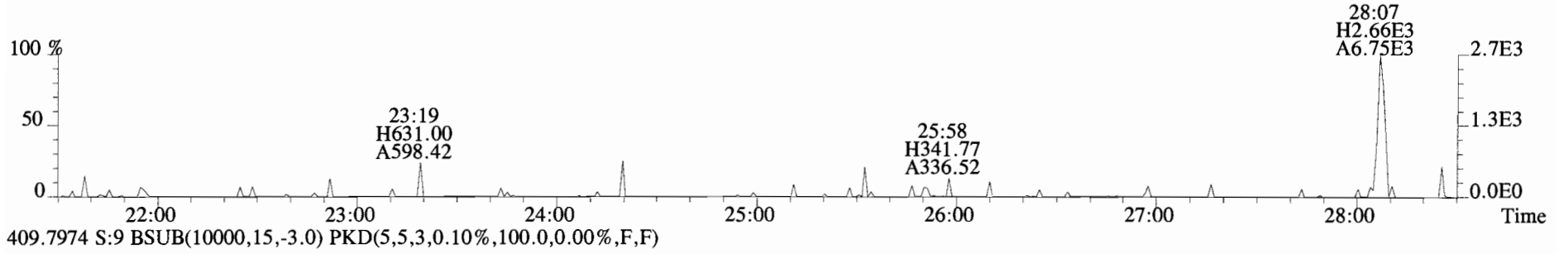
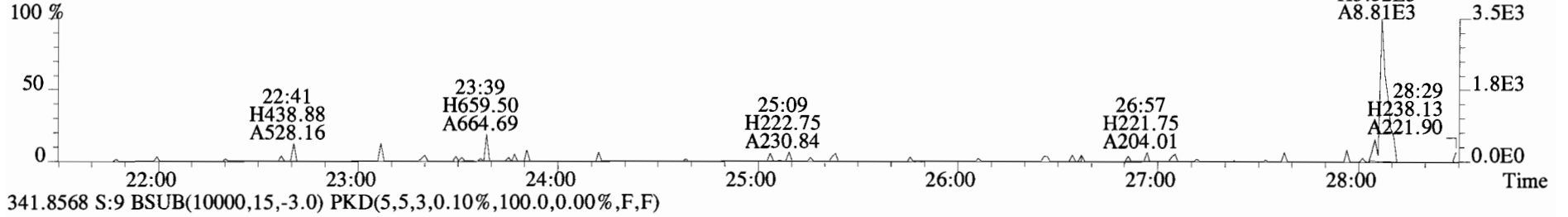
317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



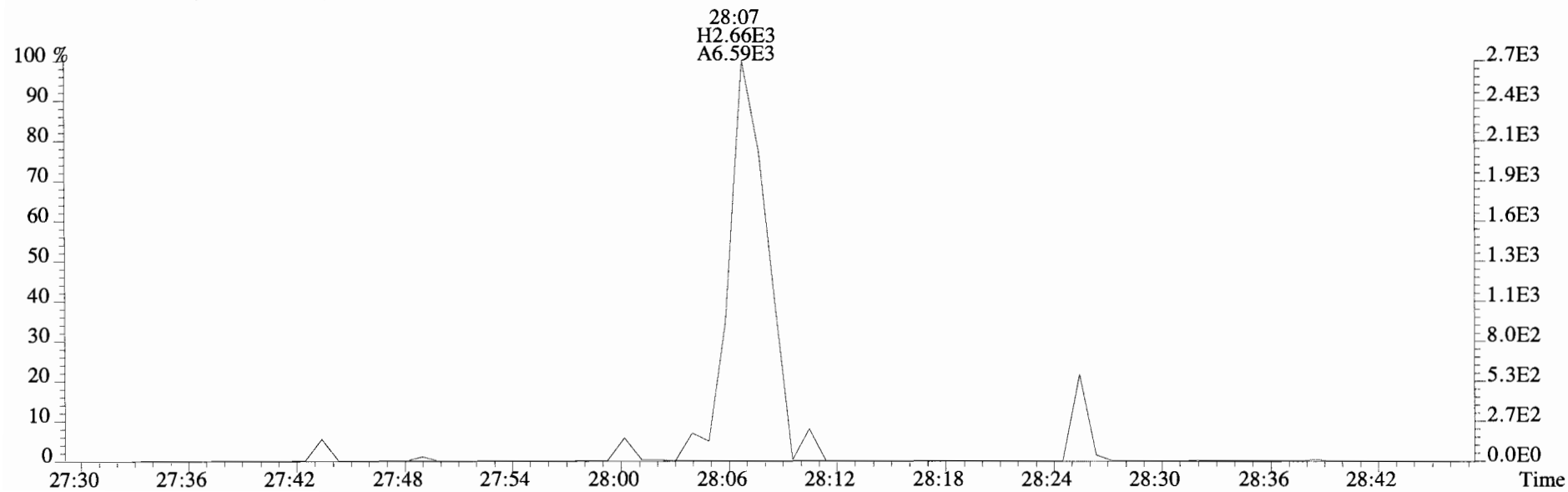
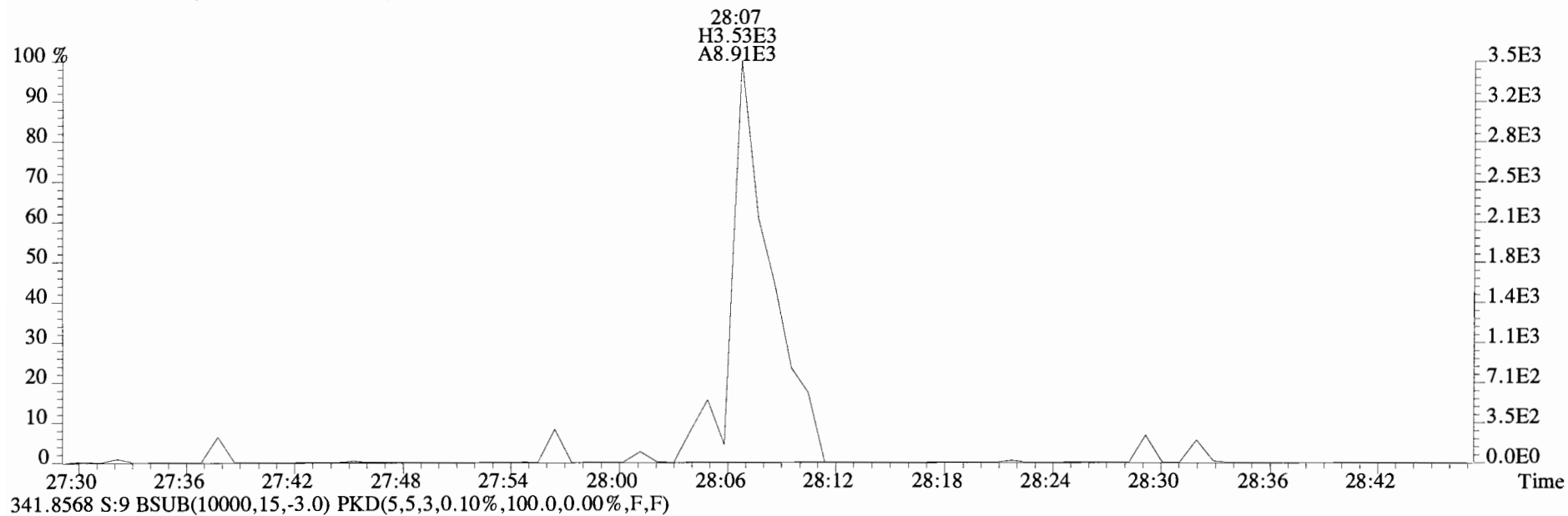
375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



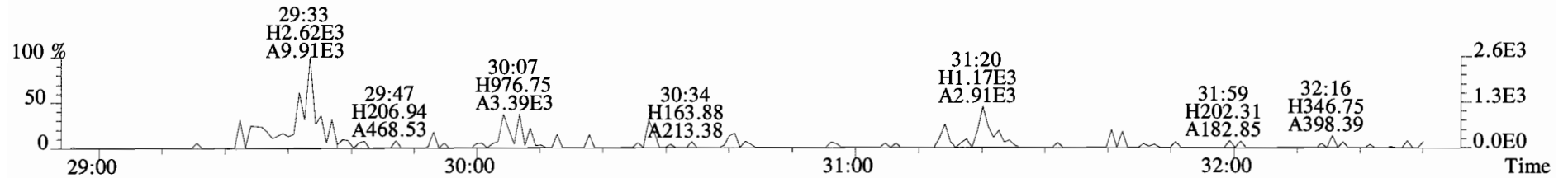
File:140922D1 #1-551 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



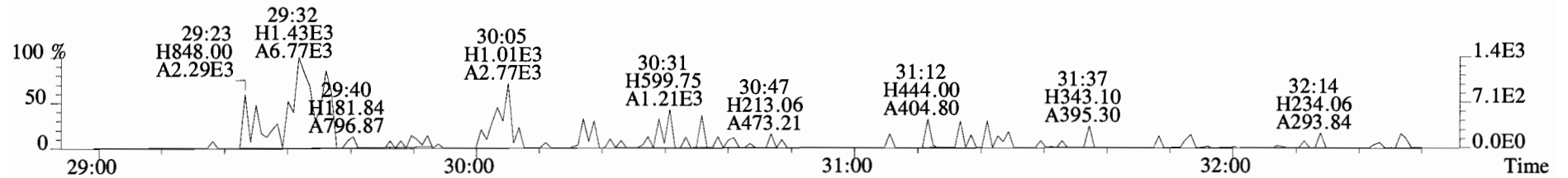
File:140922D1 #1-551 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



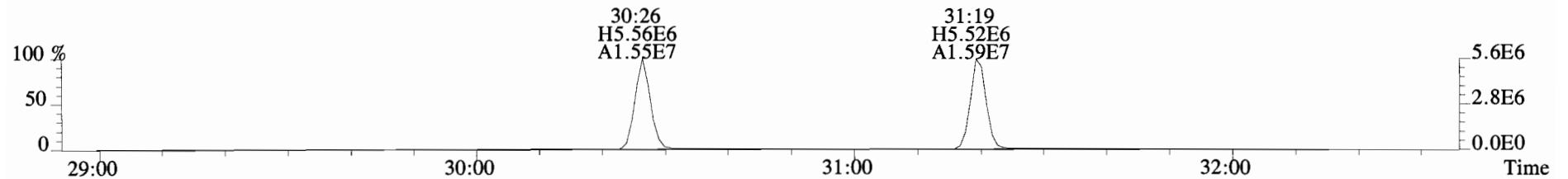
File:140922D1 #1-256 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



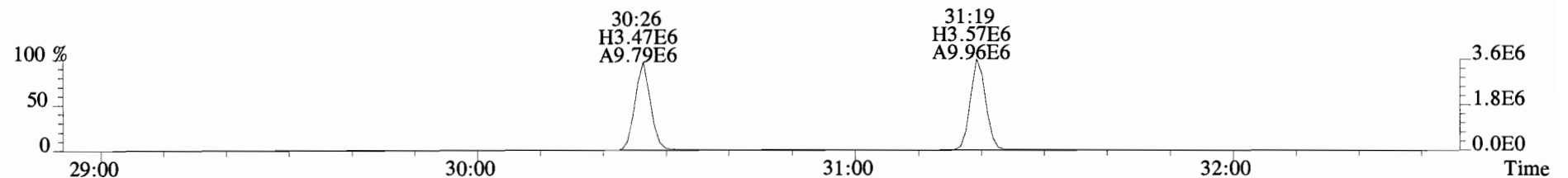
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



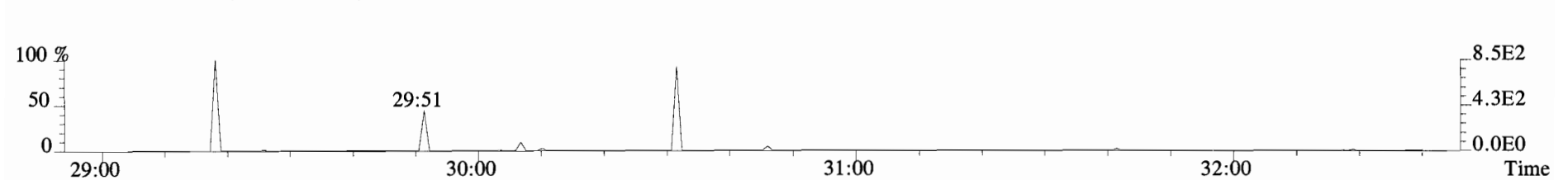
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



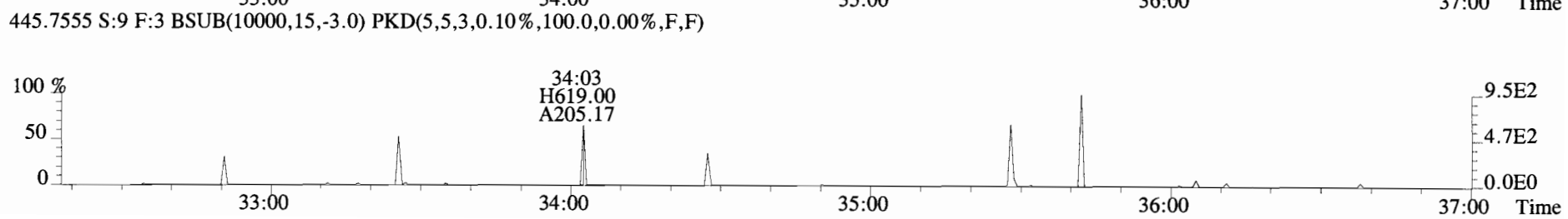
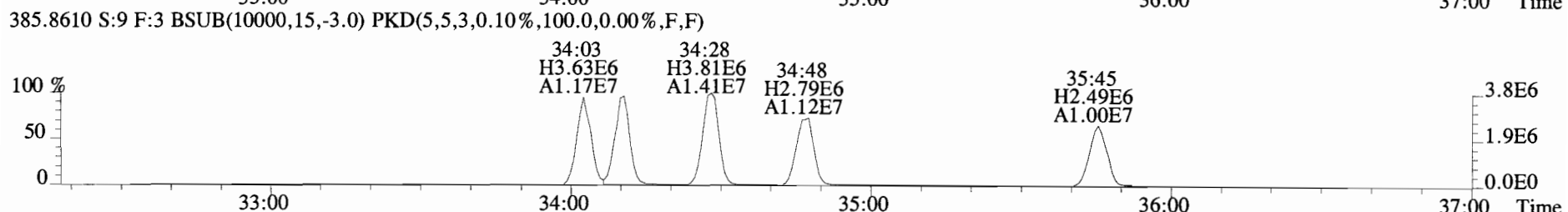
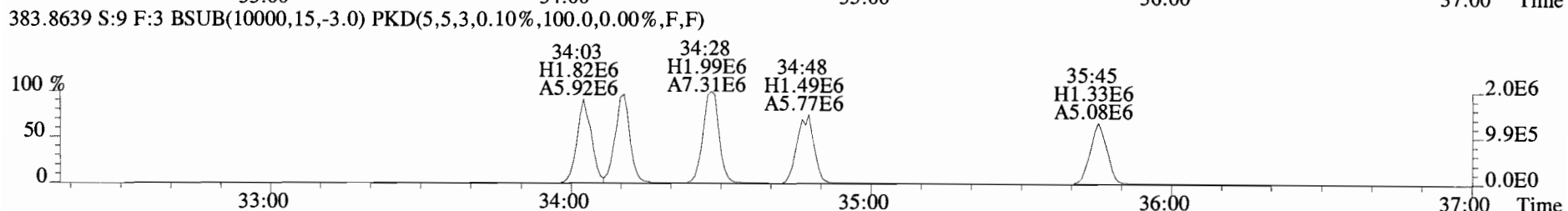
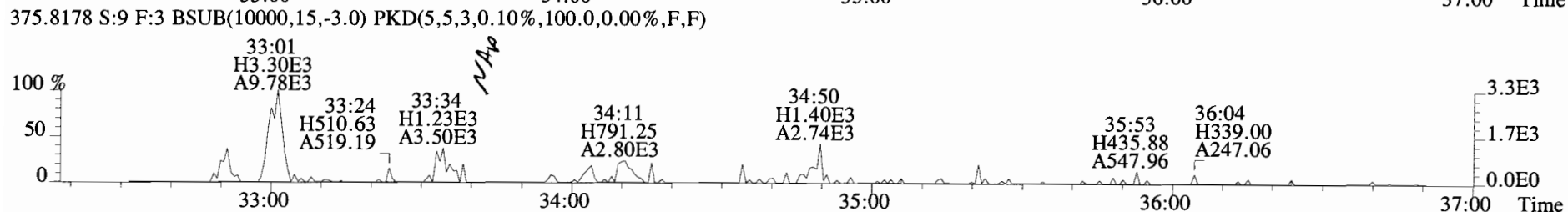
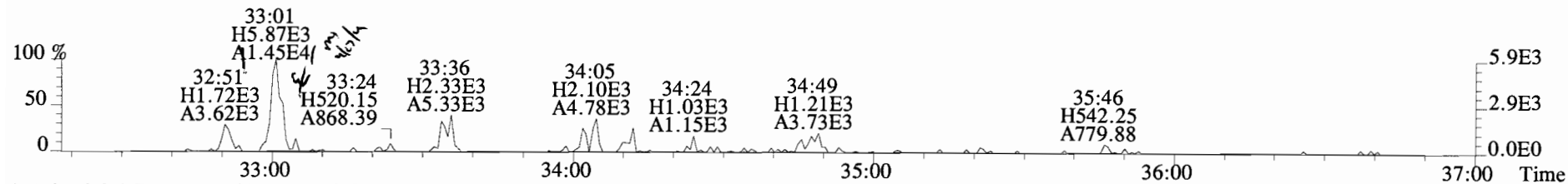
353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

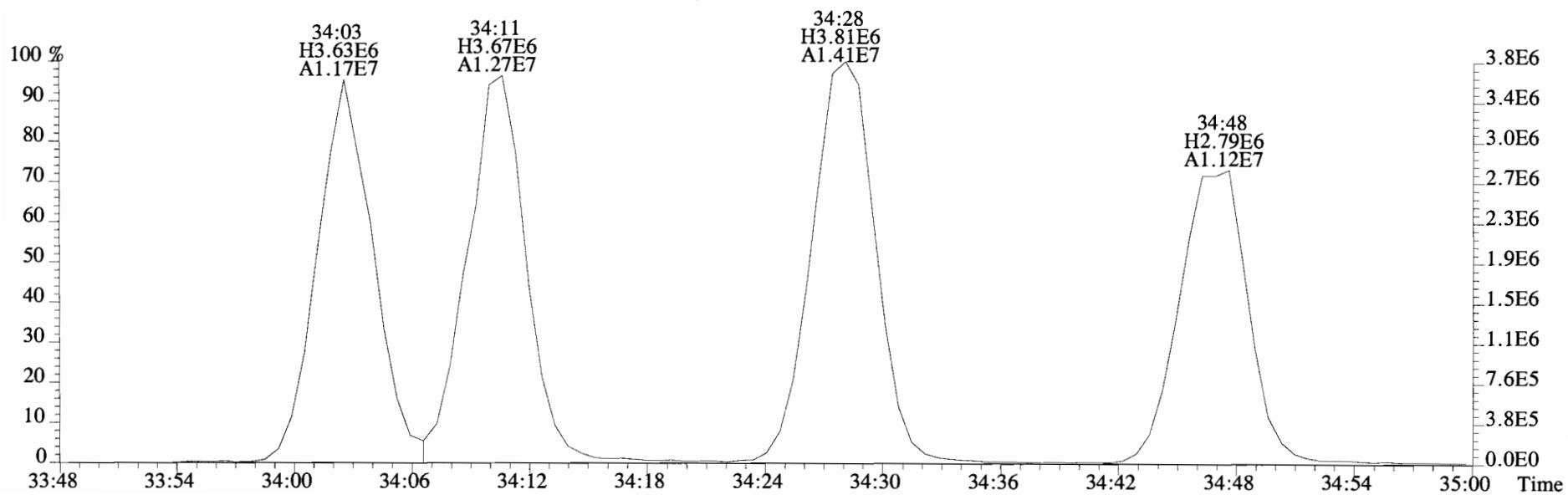
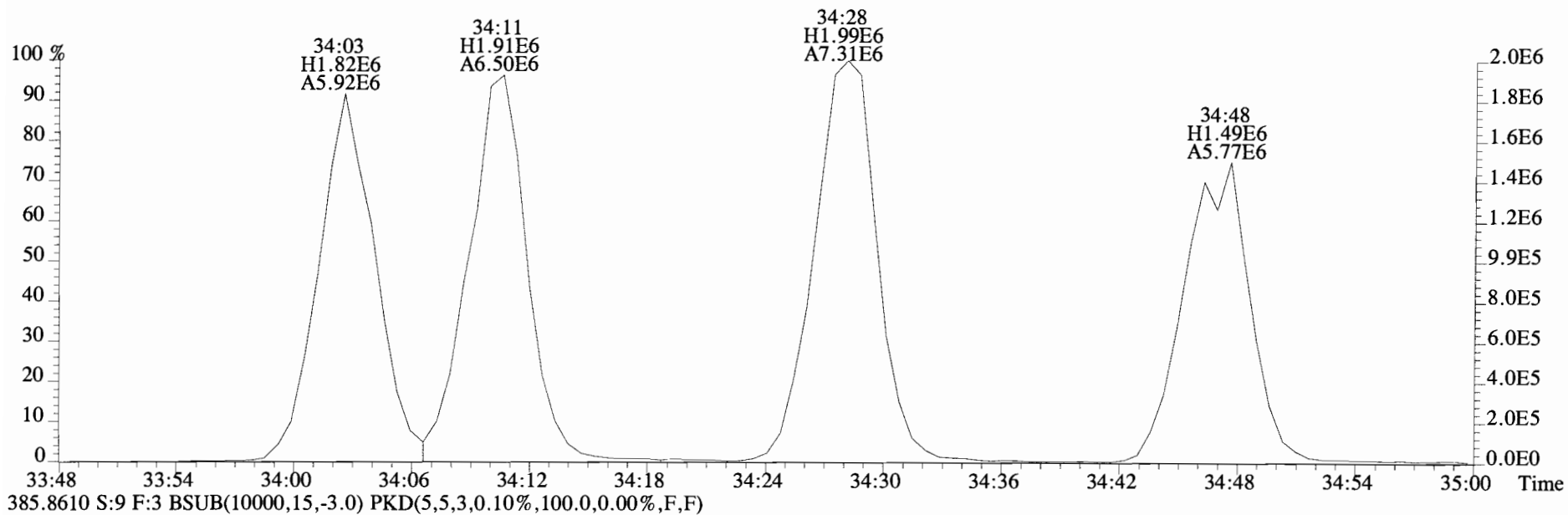


File:140922D1 #1-386 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
 373.8207 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

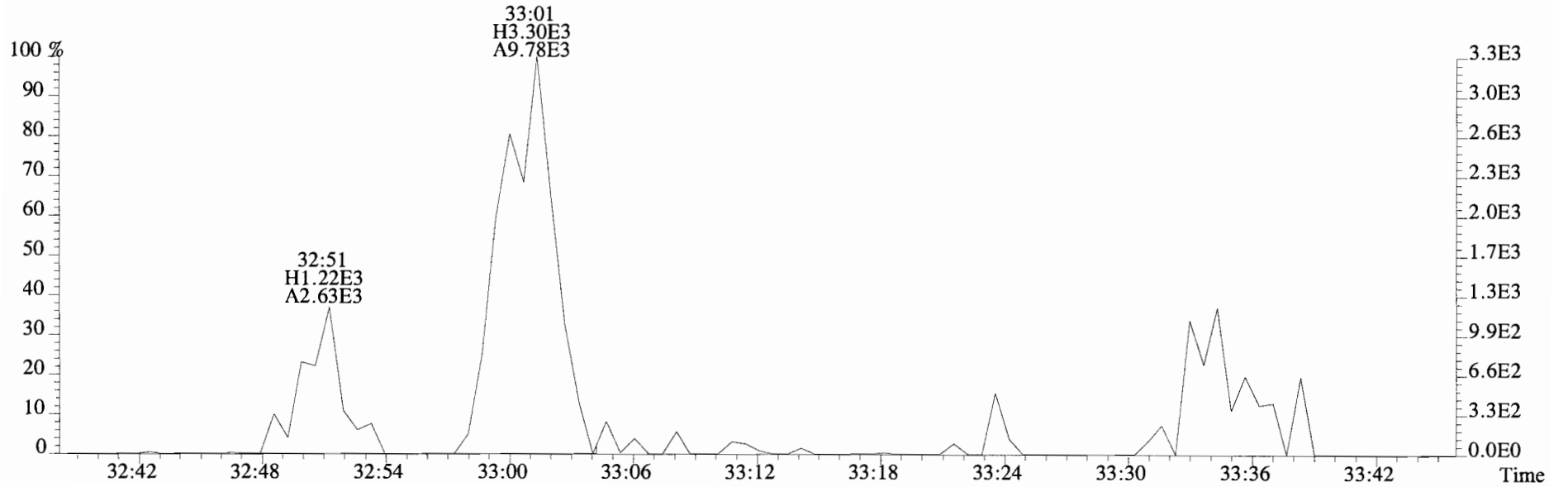
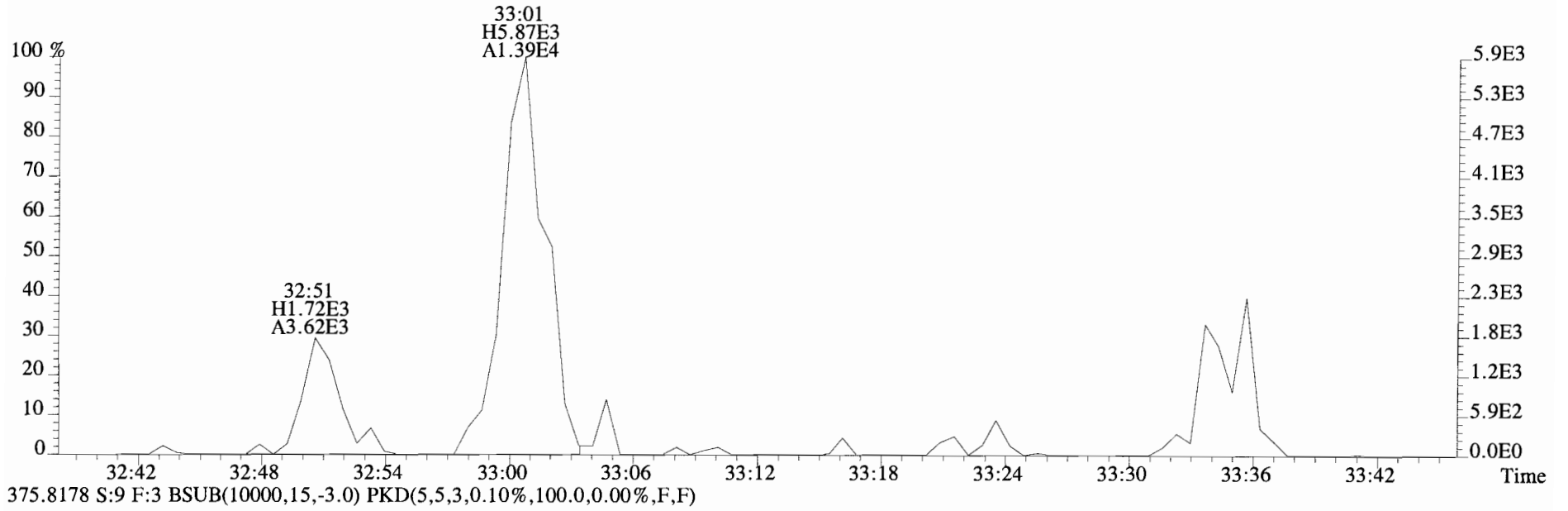




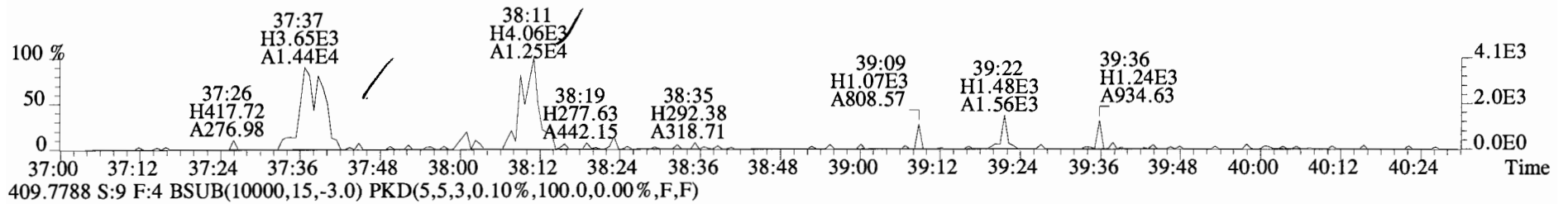
File:140922D1 #1-386 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



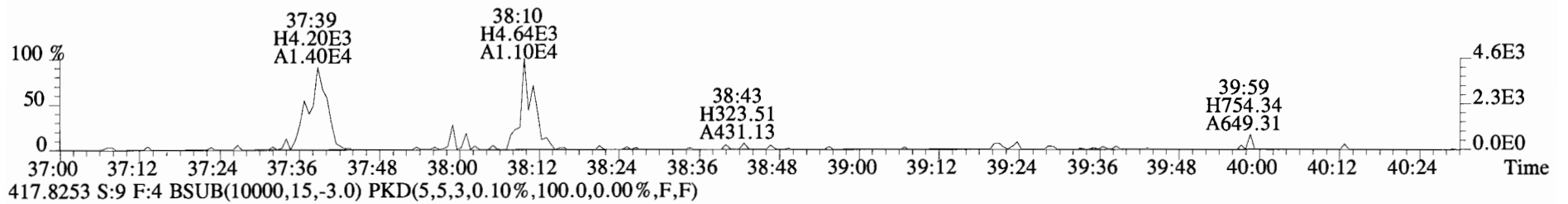
File:140922D1 #1-386 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



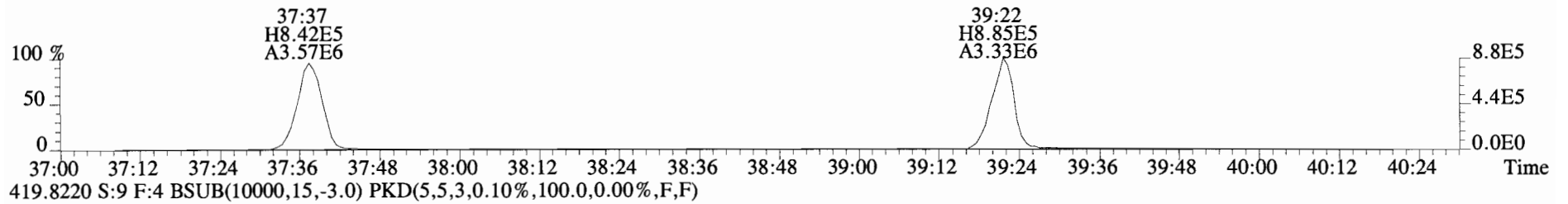
File:140922D1 #1-325 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



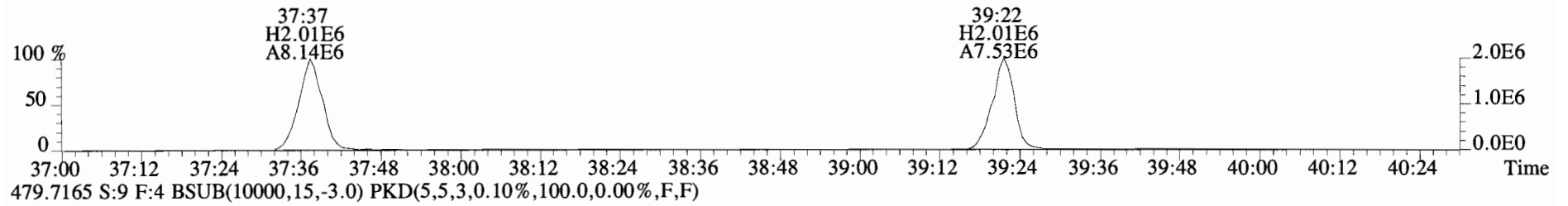
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



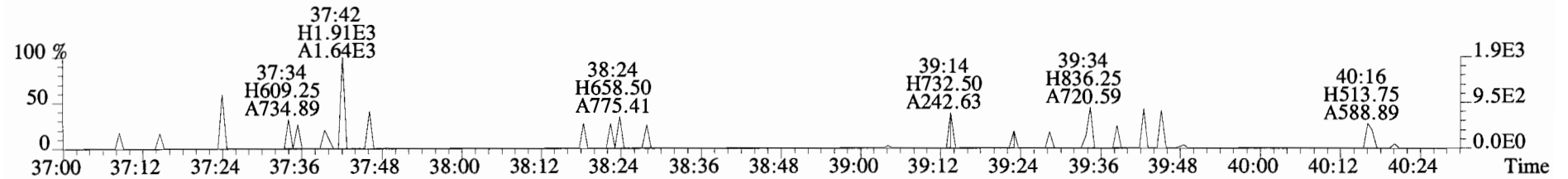
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



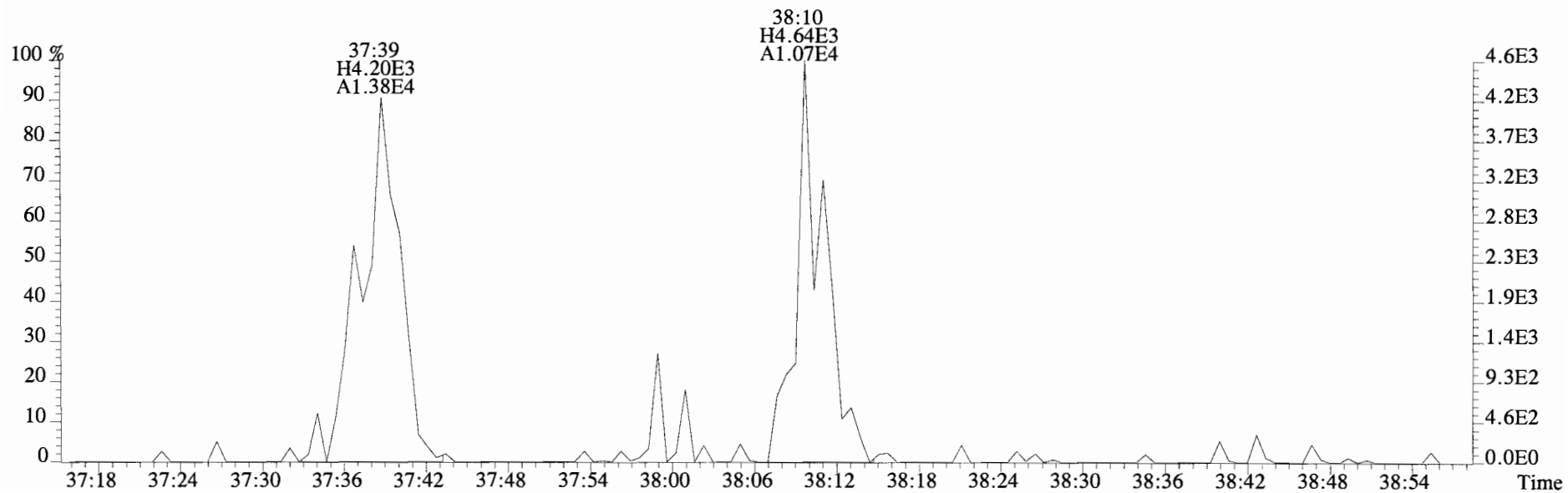
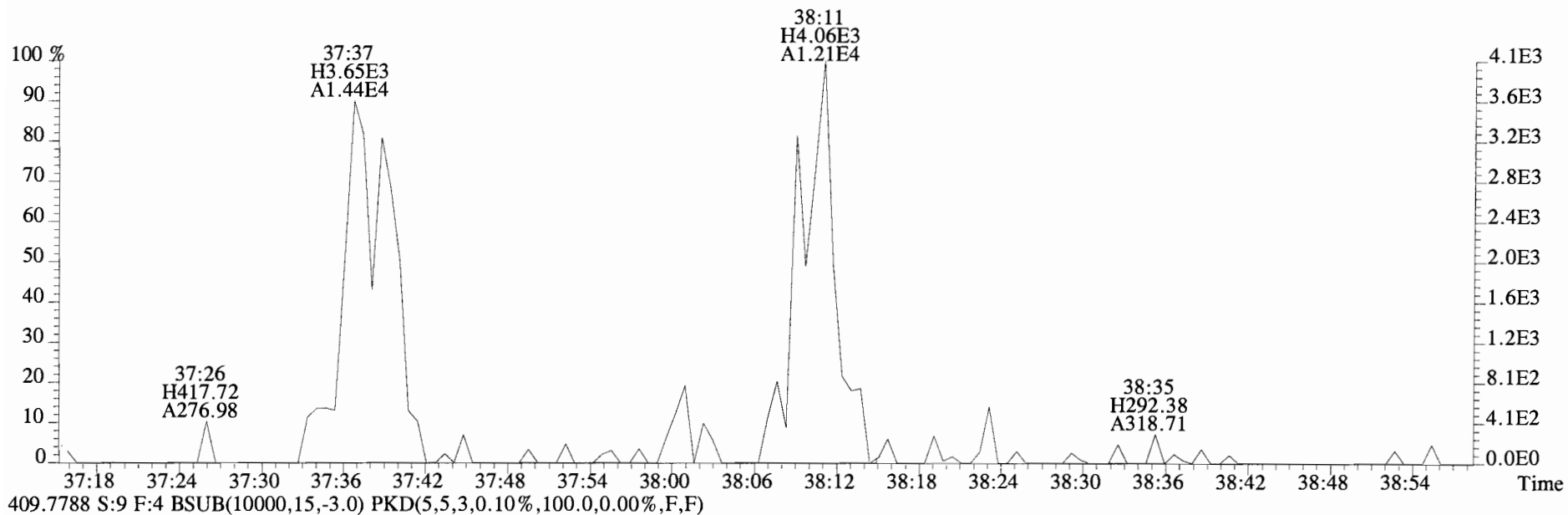
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



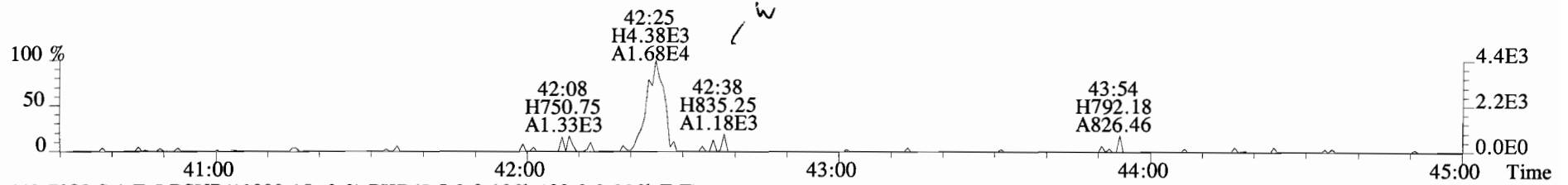
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



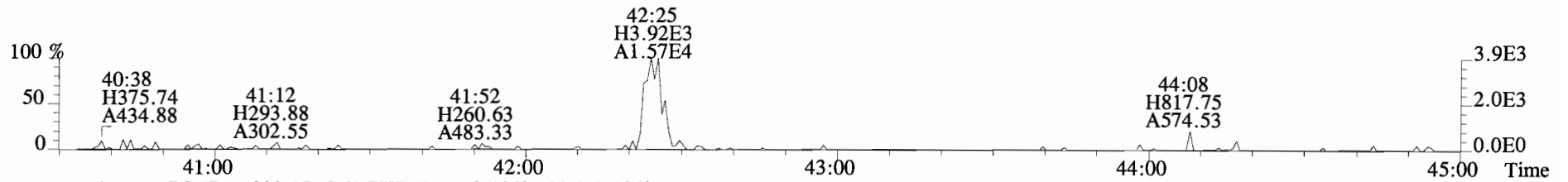
File:140922D1 #1-325 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



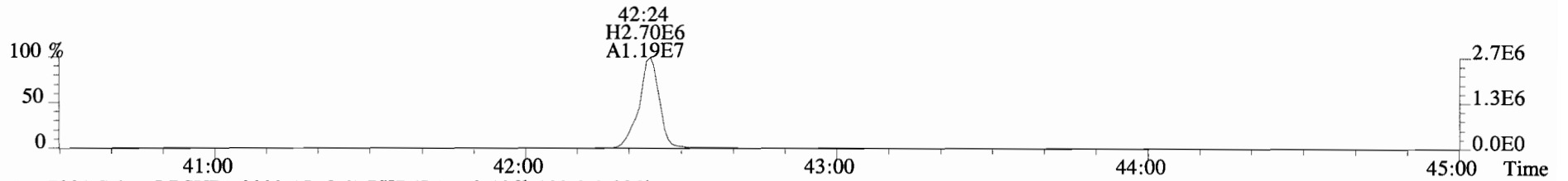
File:140922D1 #1-389 Acq:22-SEP-2014 20:00:03 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1400668-02 CS-SP-01-20140903-W 0.99717 Exp:OCDD\_DB5  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



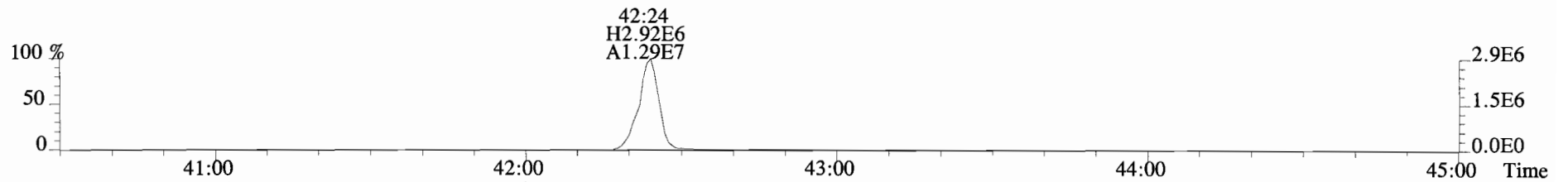
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



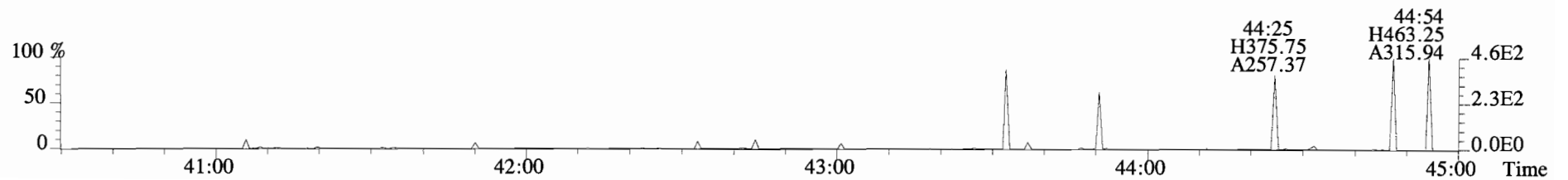
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:9 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

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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 $\eta$	*	*		295	2.5	0.0418	Total Tetra-Dioxins	*	*		295	0.0418
1,2,3,7,8-PeCDD	*	* n	0.84	NotF $\eta$	*	*		788	2.5	0.0860	Total Penta-Dioxins	*	*		1370	0.149
1,2,3,4,7,8-HxCDD	*	* n	1.05	NotF $\eta$	*	*		359	2.5	0.0736	Total Hexa-Dioxins	*	*		549	0.116
1,2,3,6,7,8-HxCDD	*	* n	1.04	NotF $\eta$	*	*		359	2.5	0.0750	Total Hepta-Dioxins	0.0942	0.0942		*	*
1,2,3,7,8,9-HxCDD	*	* n	0.90	NotF $\eta$	*	*		359	2.5	0.0796	Total Tetra-Furans	*	*		651	0.0820
1,2,3,4,6,7,8-HpCDD	*	* n	1.01	NotF $\eta$	*	*		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 $\eta$	*	*		651	2.5	0.0820						
1,2,3,7,8-PeCDF	*	* n	0.97	NotF $\eta$	*	*		323	2.5	0.0379						
2,3,4,7,8-PeCDF	*	* n	0.94	NotF $\eta$	*	*		323	2.5	0.0344						
1,2,3,4,7,8-HxCDF	*	* n	1.32	NotF $\eta$	*	*		424	2.5	0.0285						
1,2,3,6,7,8-HxCDF	*	* n	1.18	NotF $\eta$	*	*		424	2.5	0.0345						
2,3,4,6,7,8-HxCDF	*	* n	1.23	NotF $\eta$	*	*		289	2.5	0.0252						
1,2,3,7,8,9-HxCDF	*	* n	1.13	NotF $\eta$	*	*		289	2.5	0.0337						
1,2,3,4,6,7,8-HpCDF	*	* n	1.57	NotF $\eta$	*	*		654	2.5	0.0672						
1,2,3,4,7,8,9-HpCDF	*	* n	1.50	NotF $\eta$	*	*		345	2.5	0.0339						
OCDF	*	* n	1.05	NotF $\eta$	*	*		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

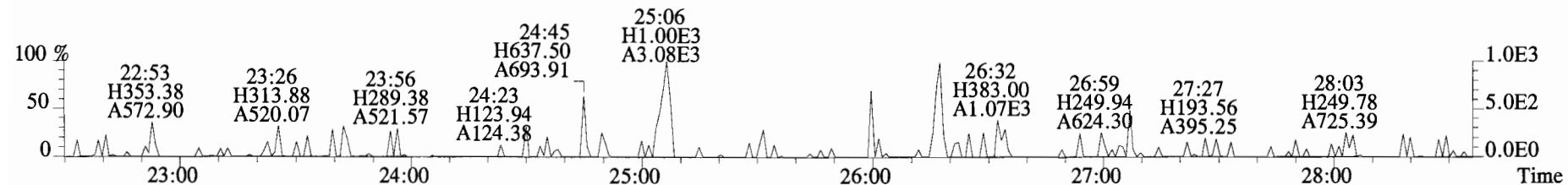
Acquired: 17-SEP-14 18:50:05 Processed: 18-SEP-14 09:39:42

Total Concentration: 0.094243

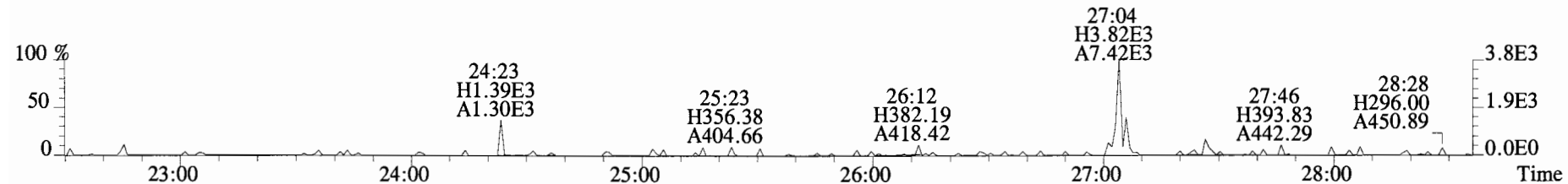
Unnamed Concentration: 0.094

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

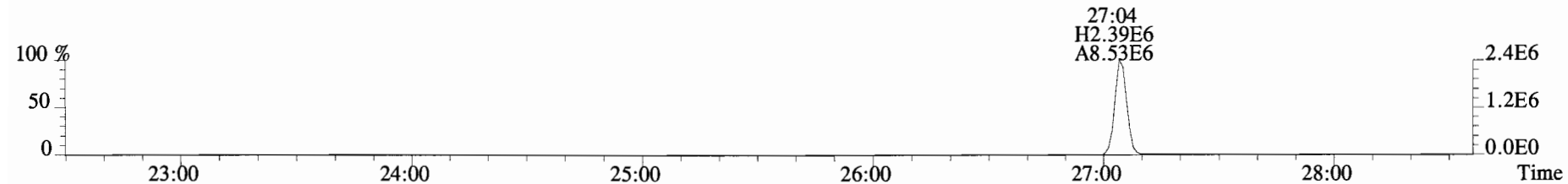
File:140917D1 #1-551 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



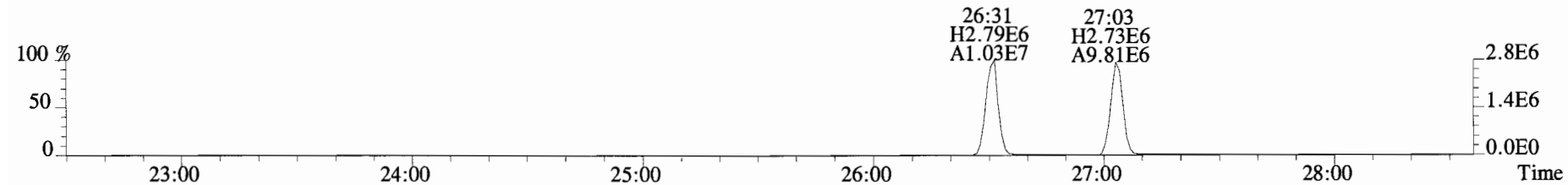
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



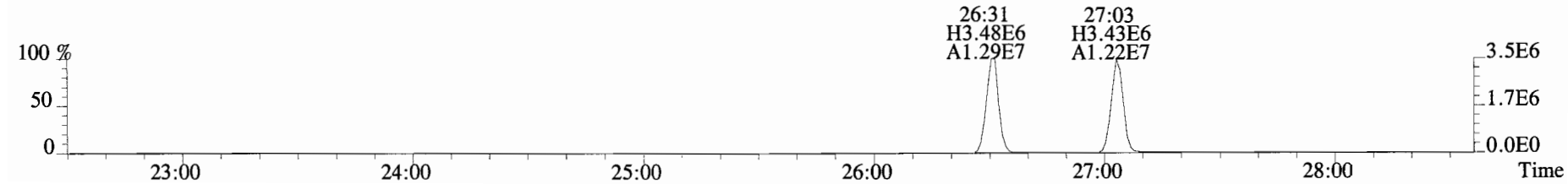
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

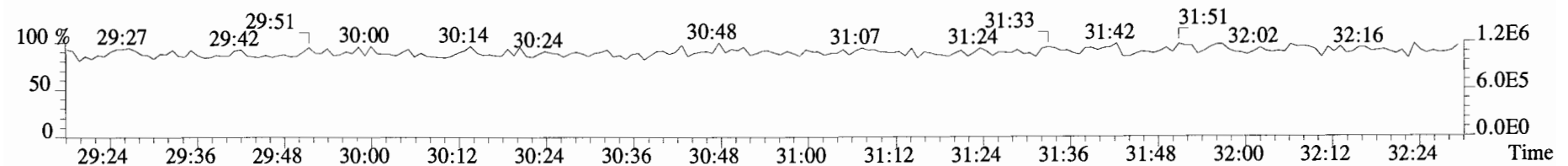
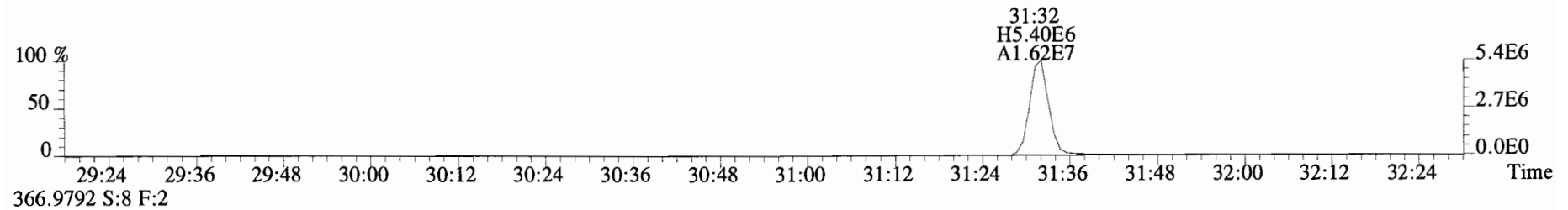
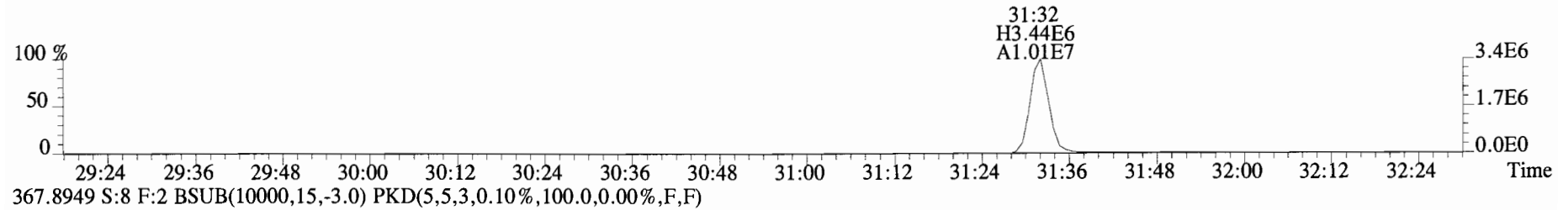
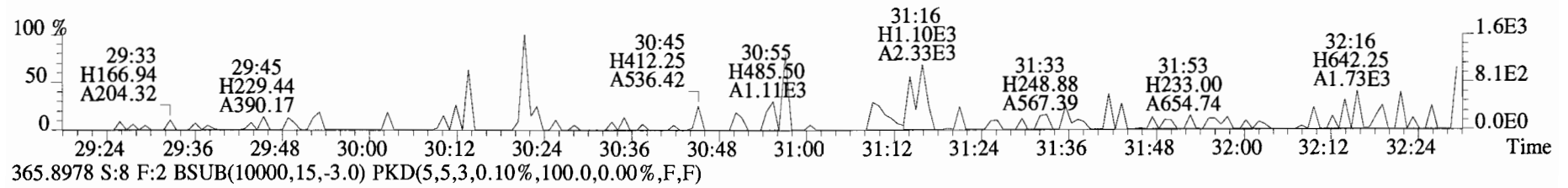
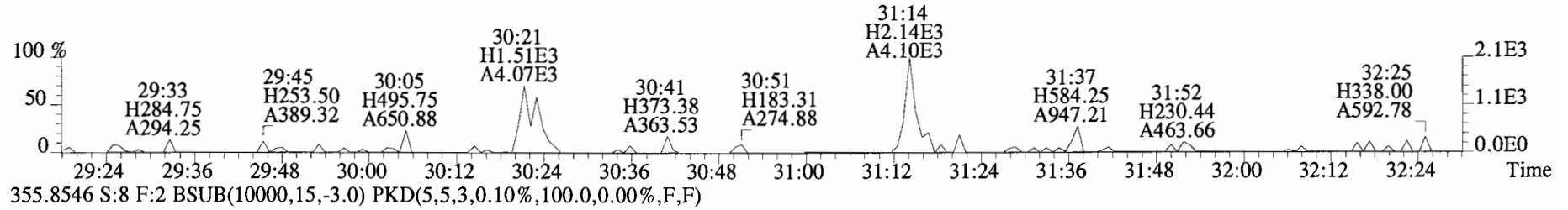


333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

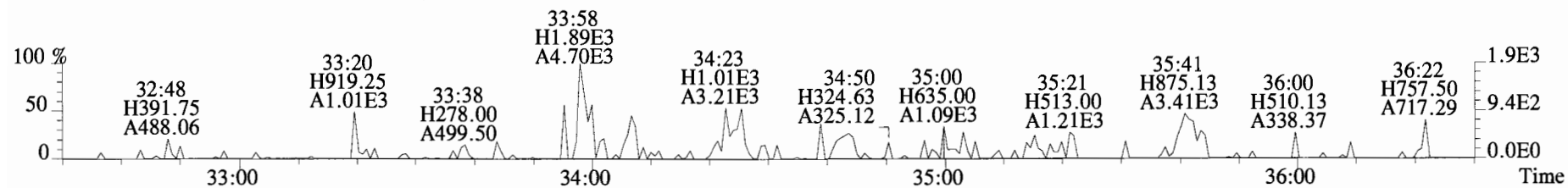




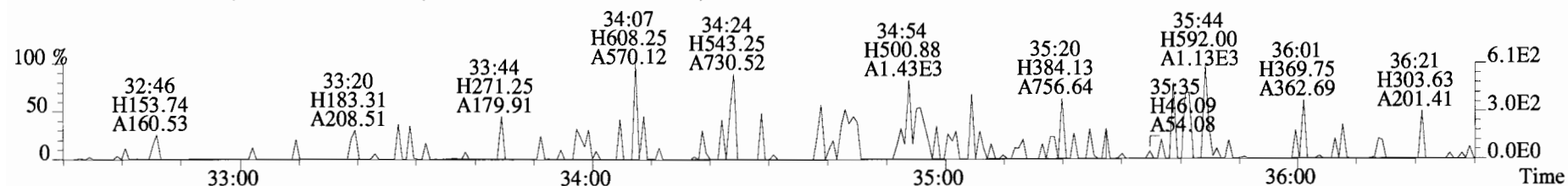
File:140917D1 #1-256 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



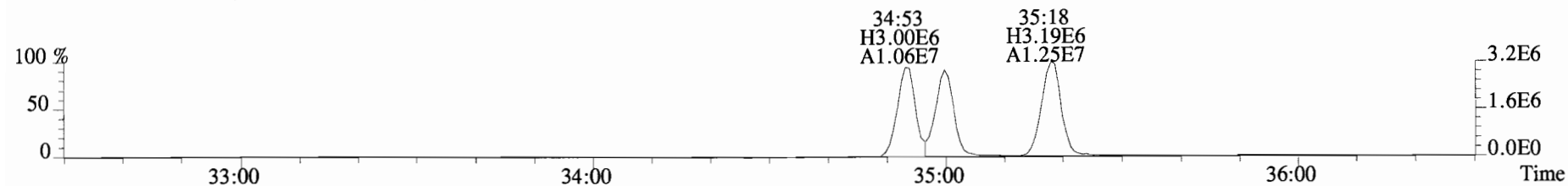
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



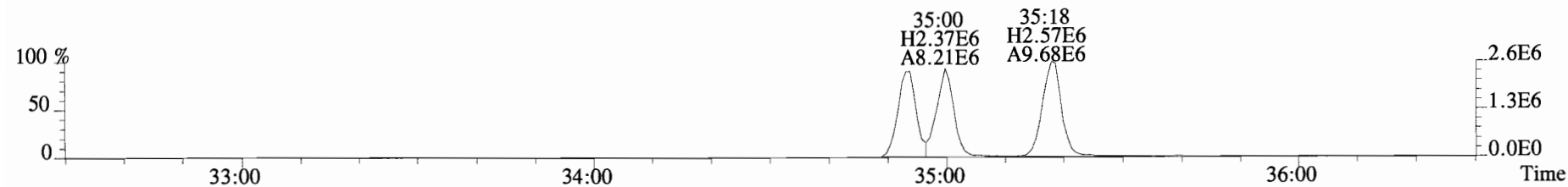
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



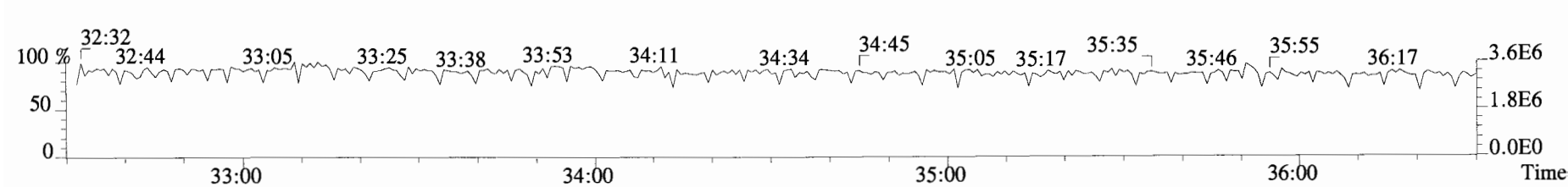
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



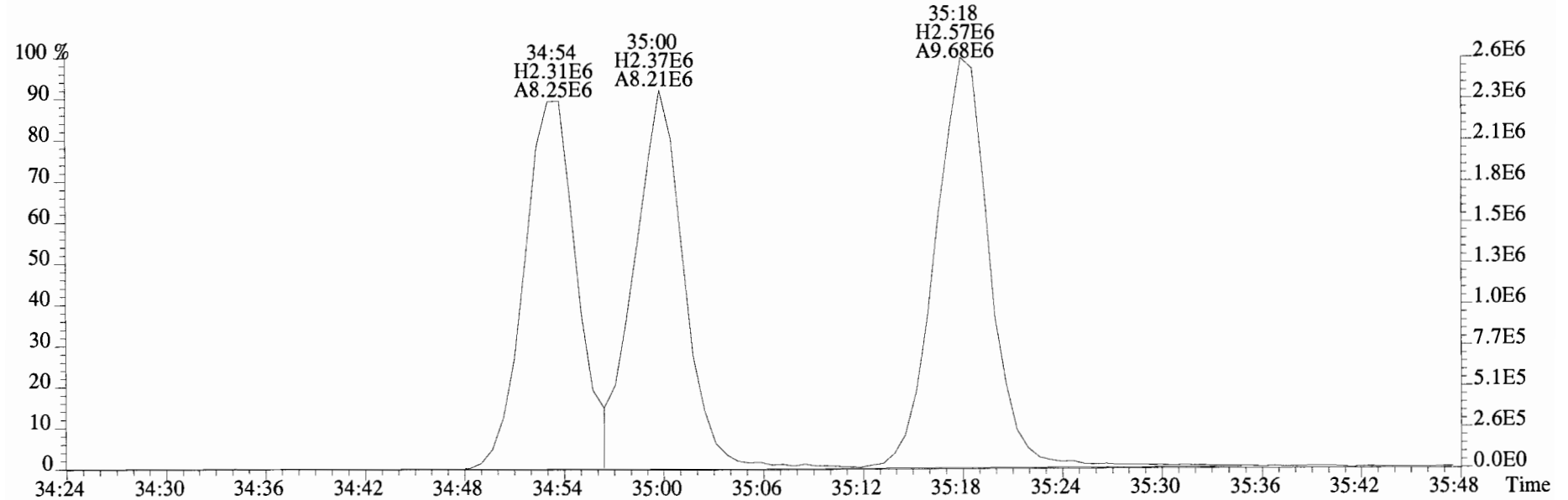
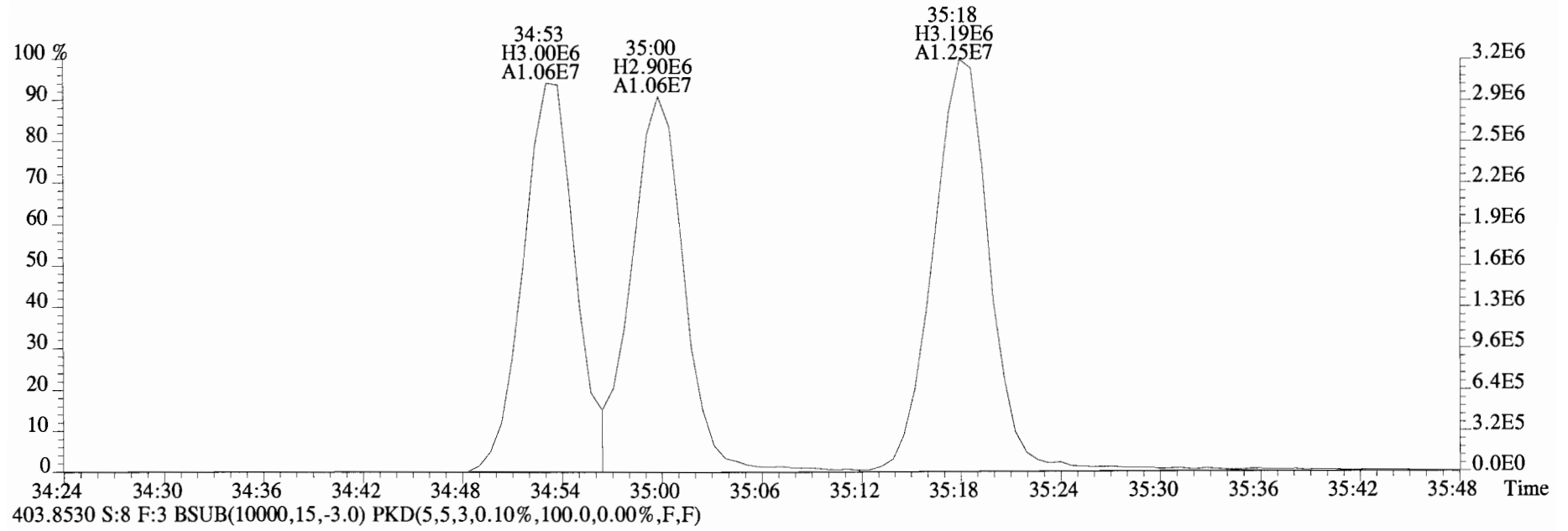
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



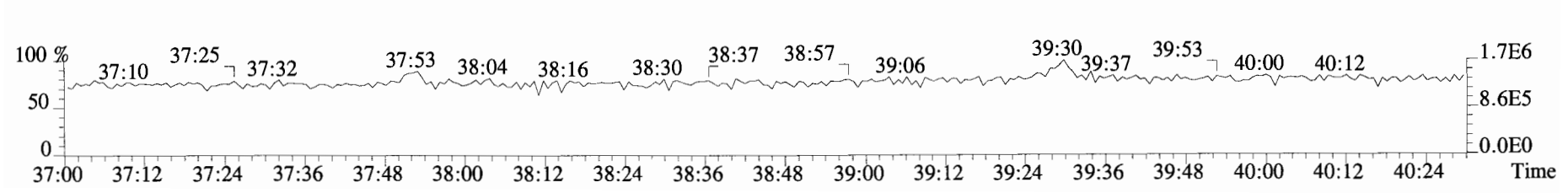
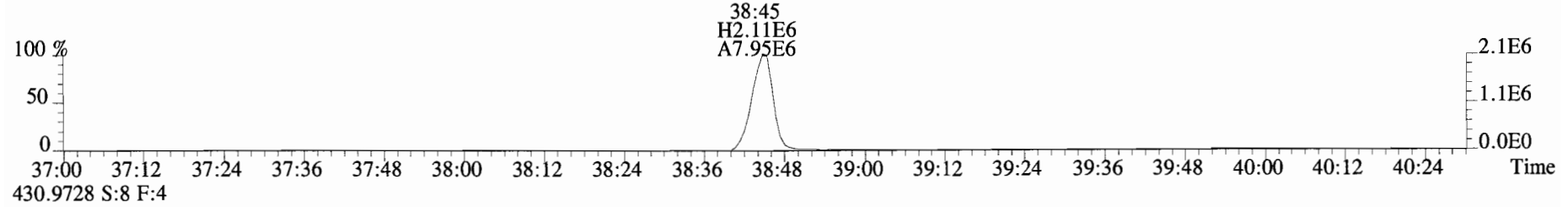
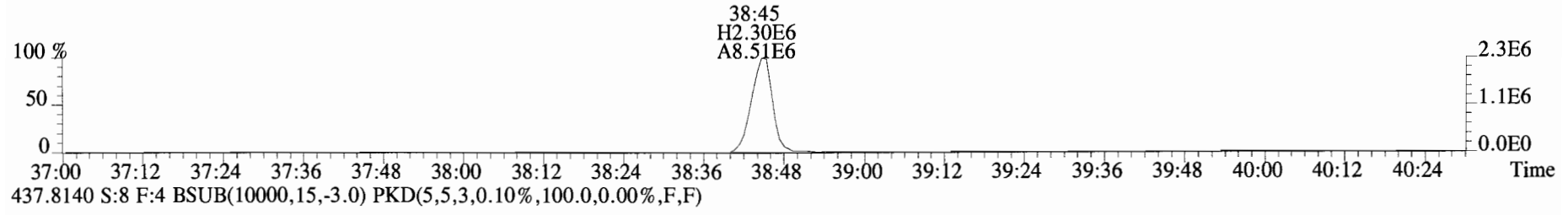
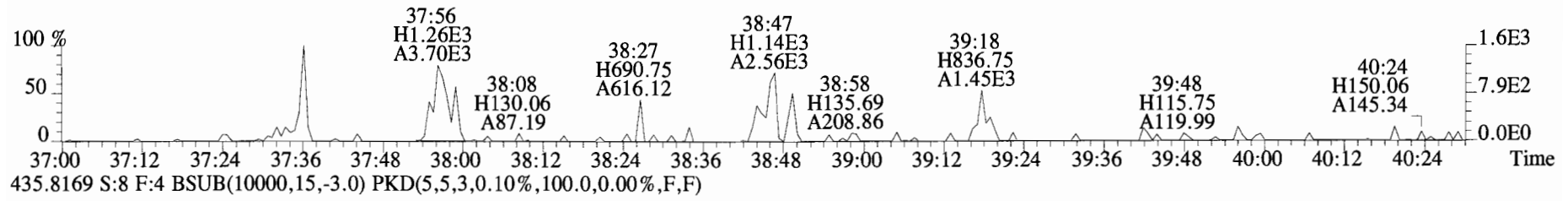
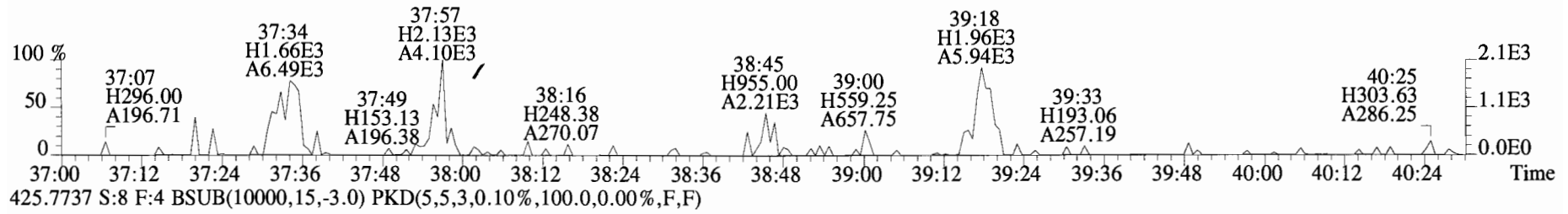
380.9760 S:8 F:3



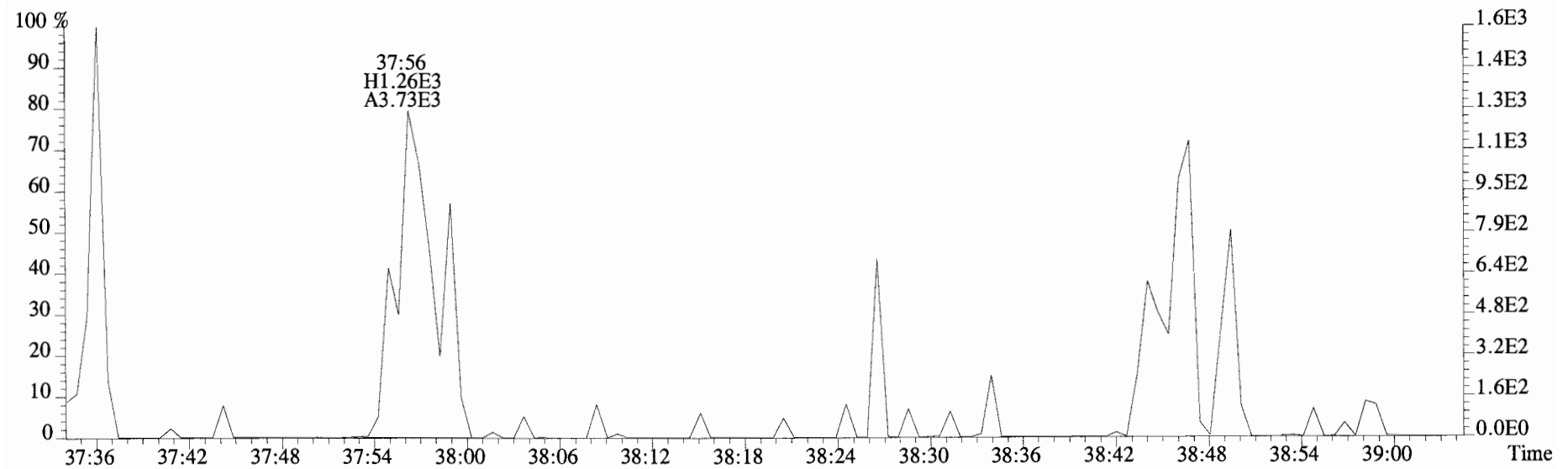
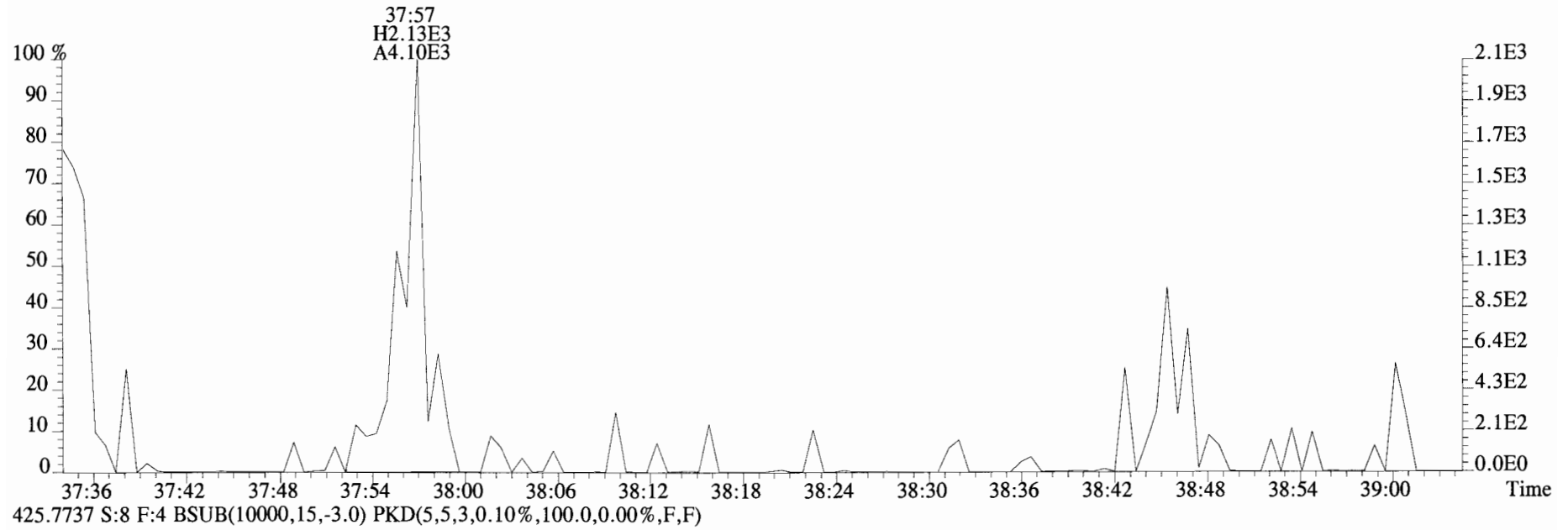
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



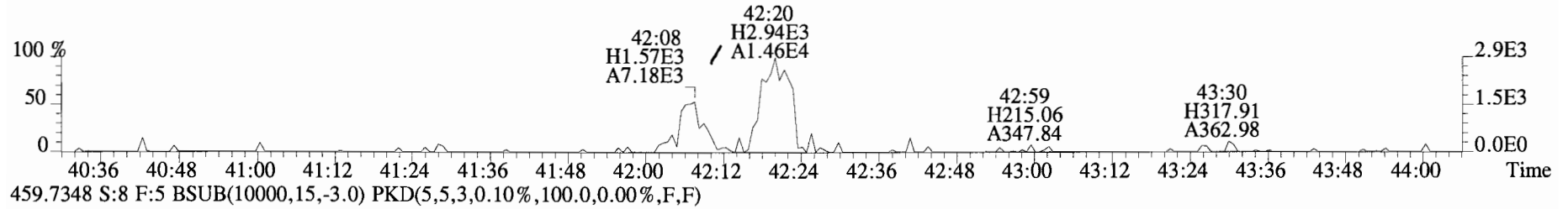
File:140917D1 #1-326 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



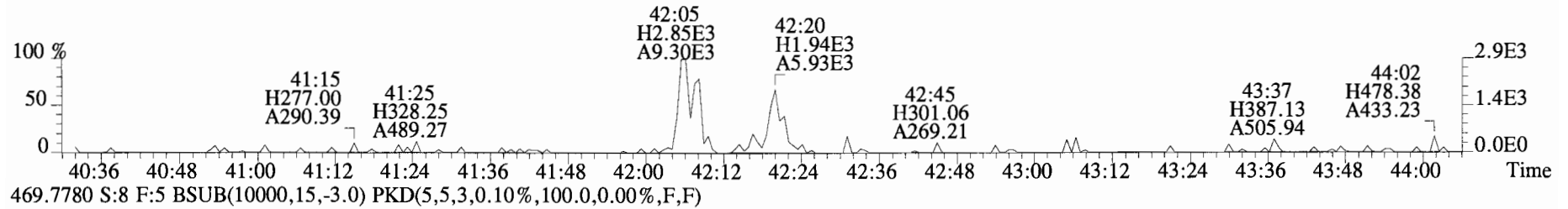
File:140917D1 #1-326 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



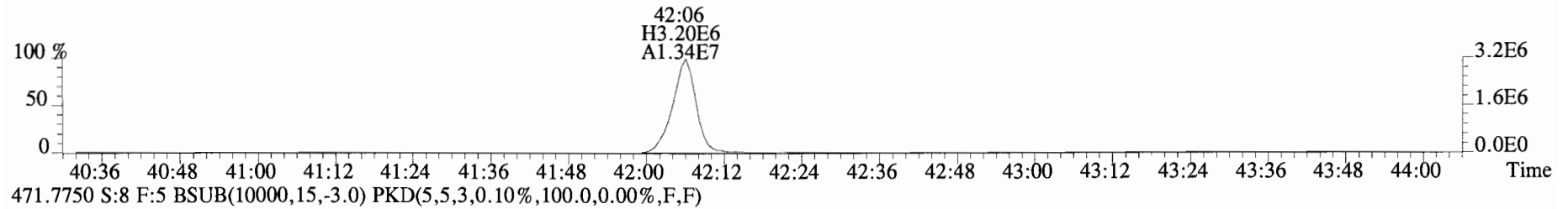
File:140917D1 #1-389 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



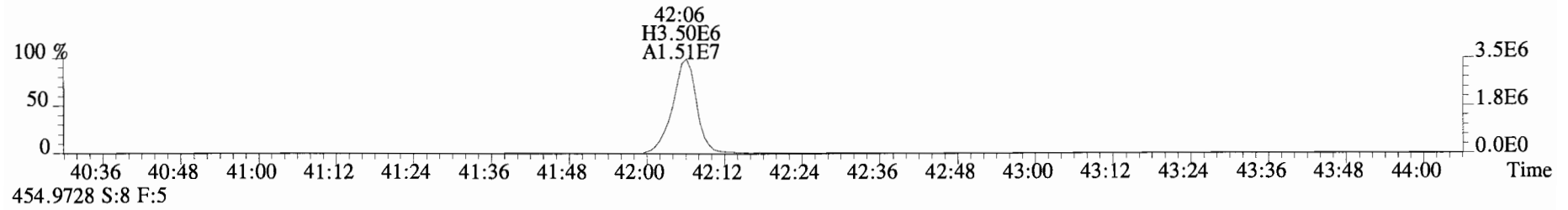
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



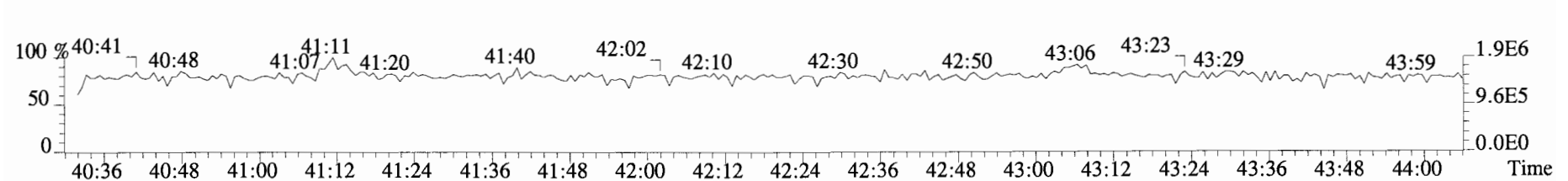
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



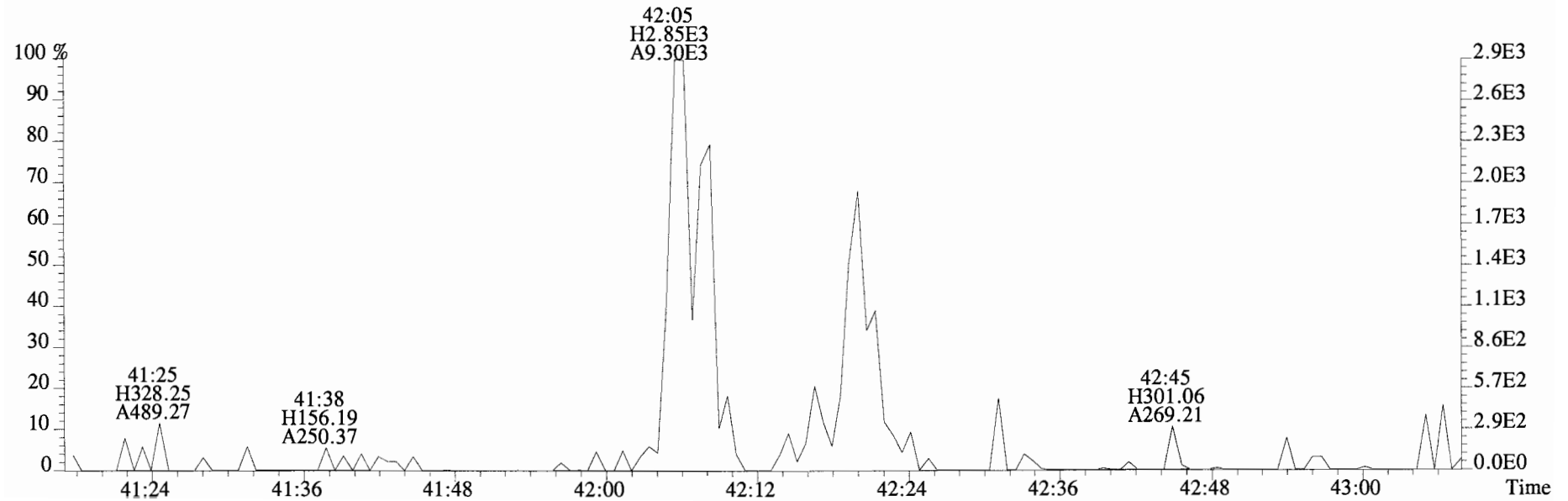
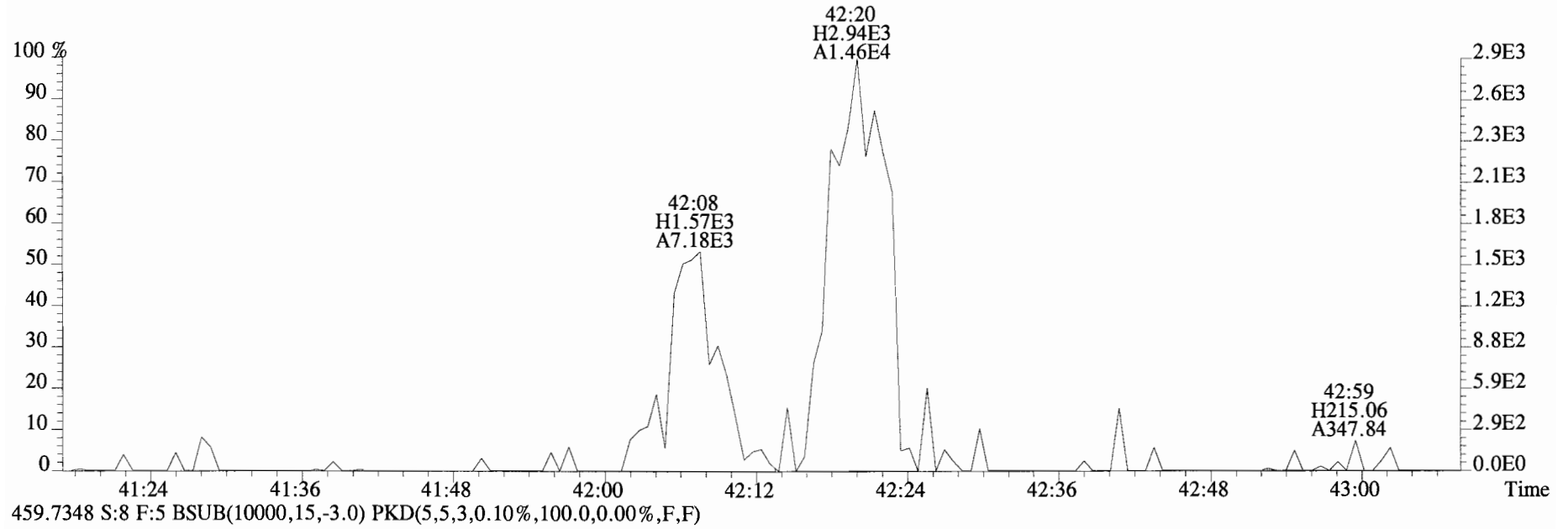
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



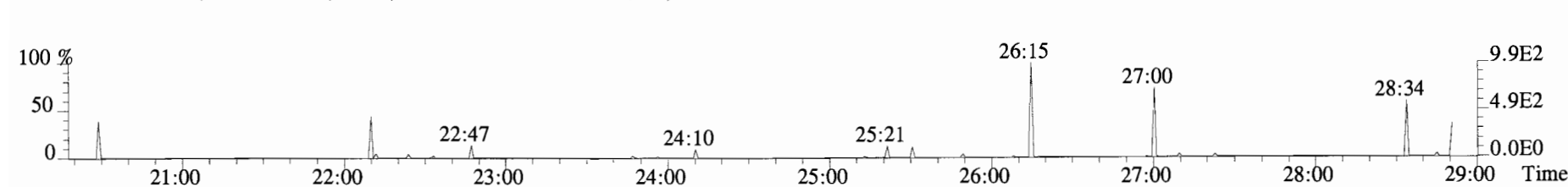
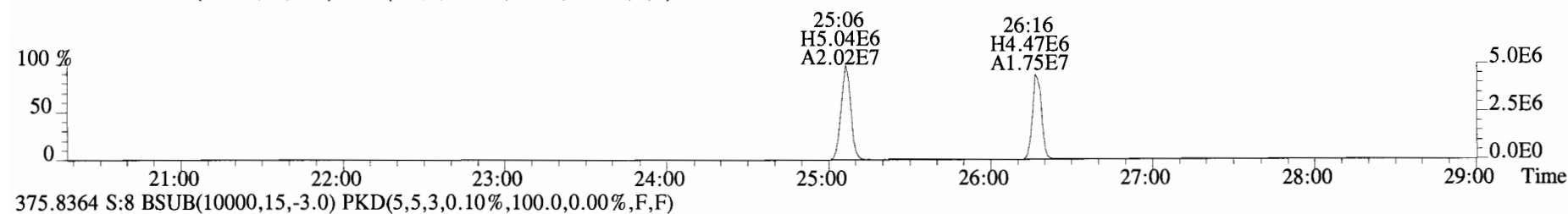
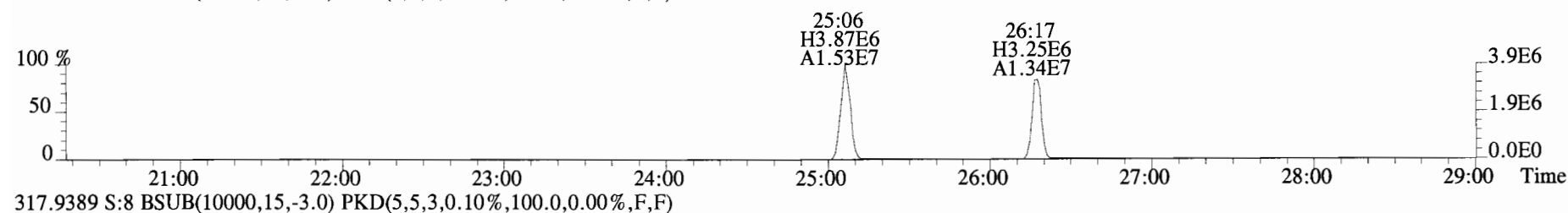
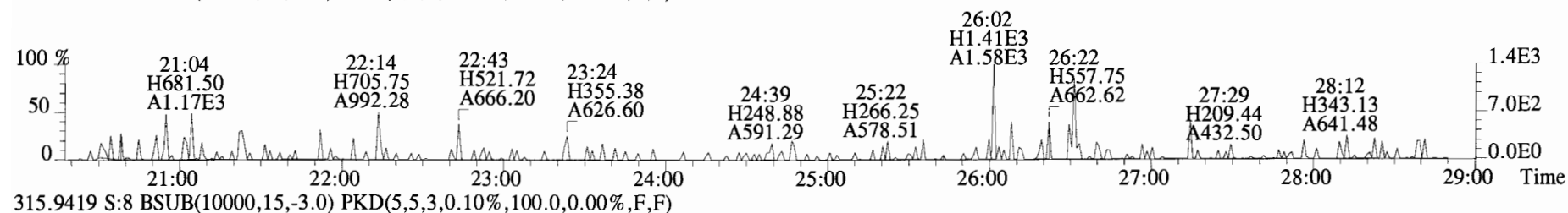
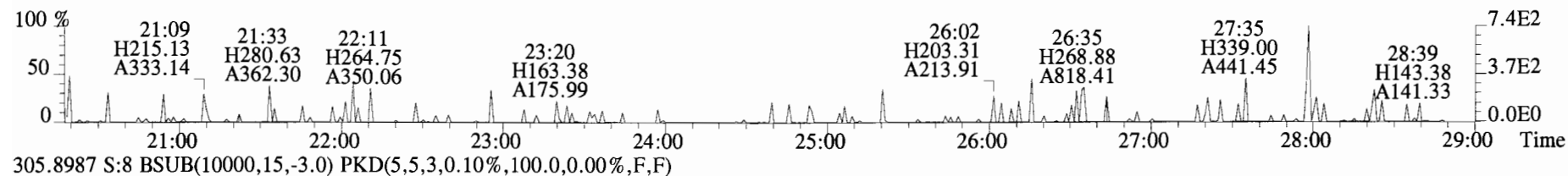
454.9728 S:8 F:5



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)

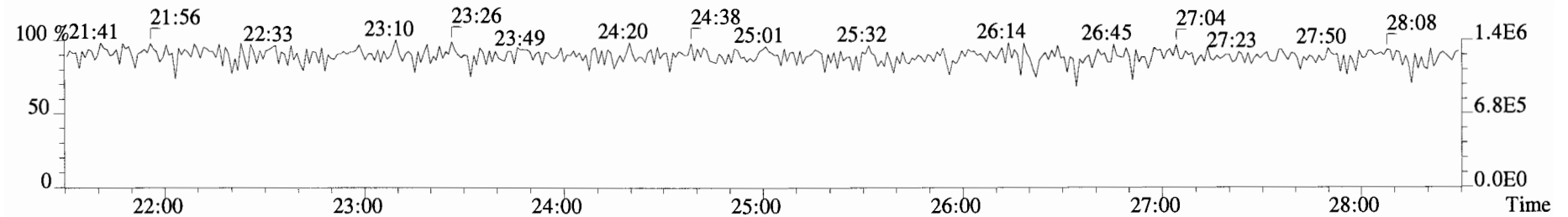
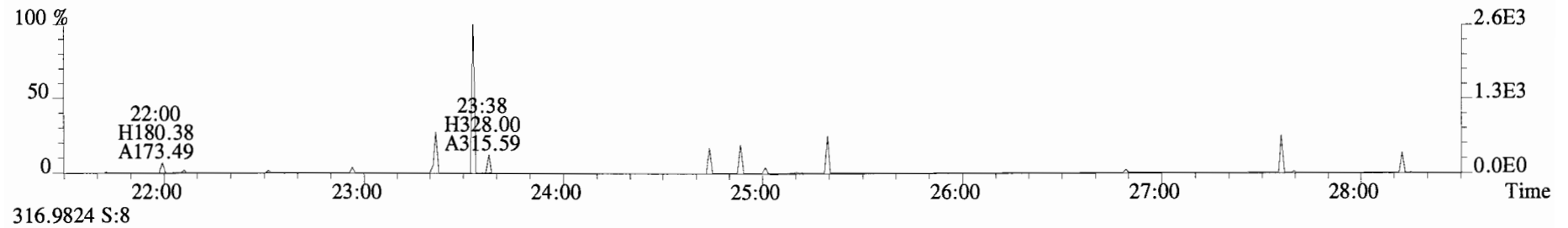
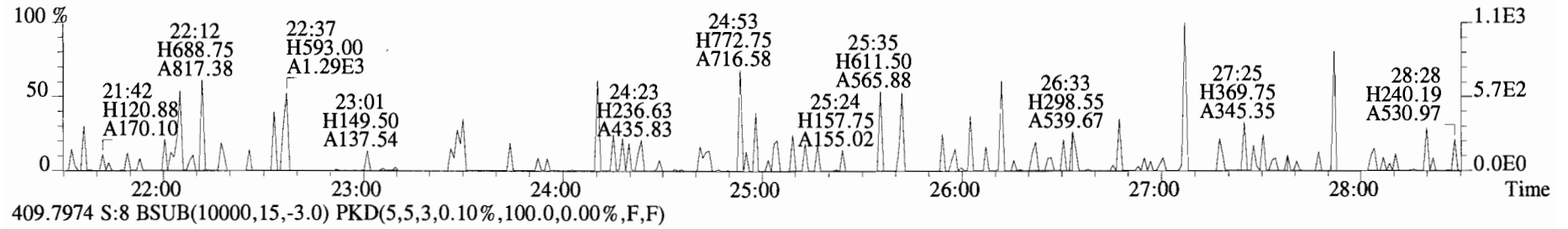
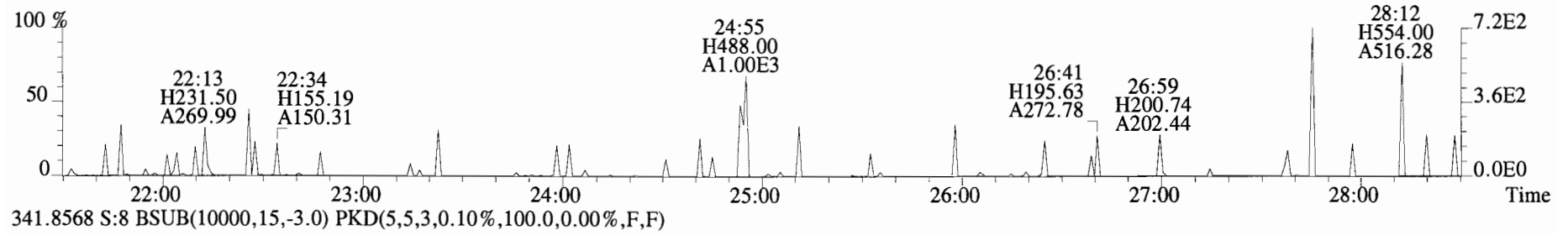


File:140917D1 #1-551 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

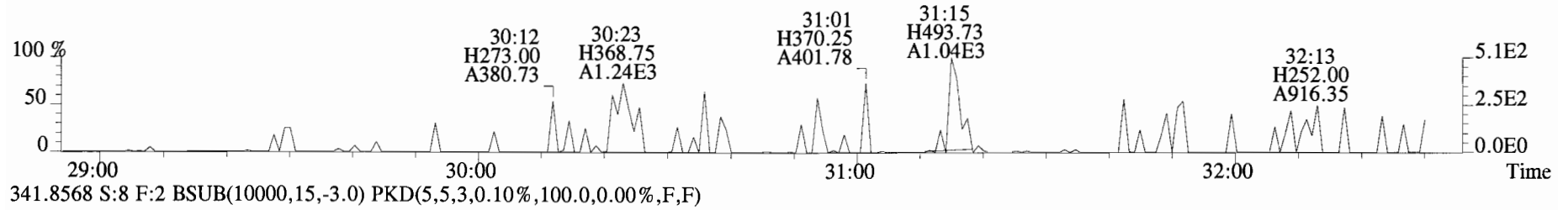




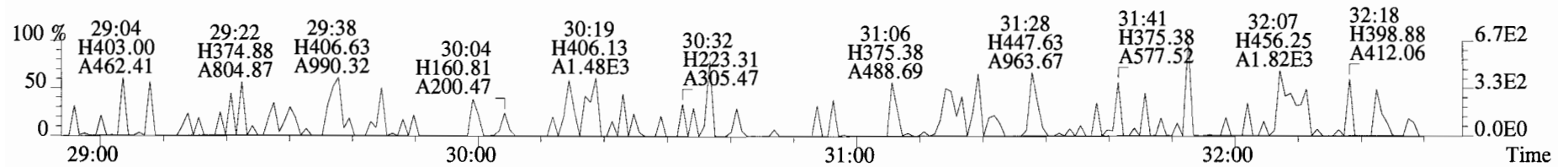
File:140917D1 #1-551 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



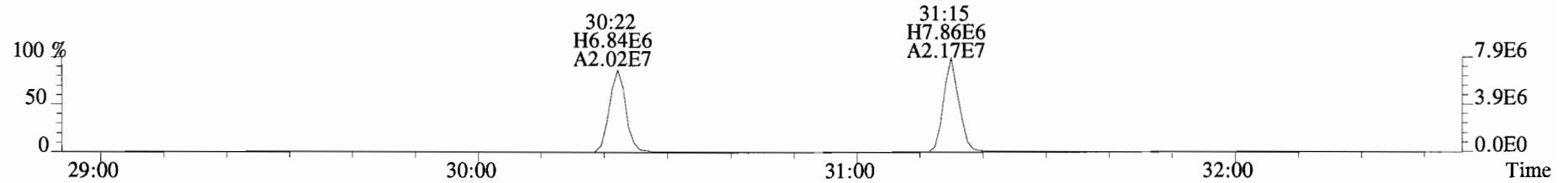
File:140917D1 #1-256 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



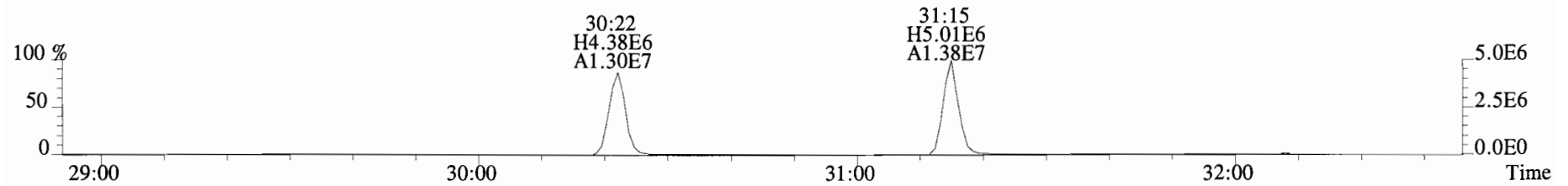
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



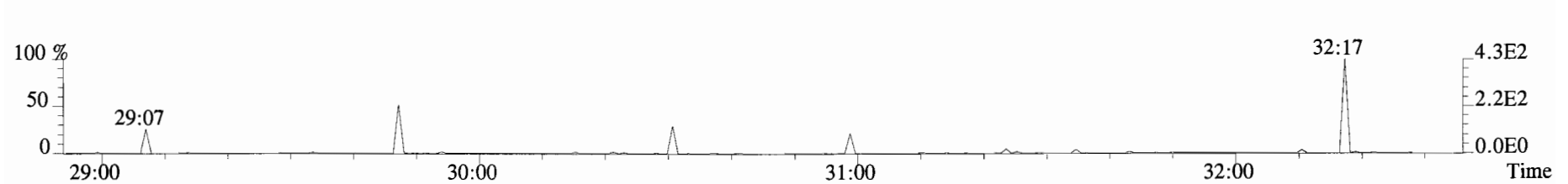
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



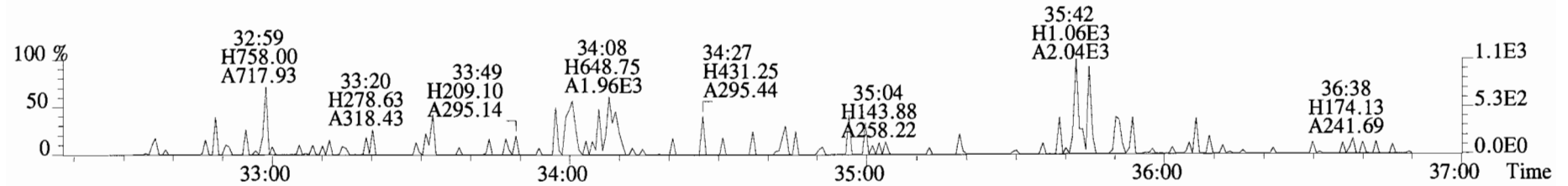
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



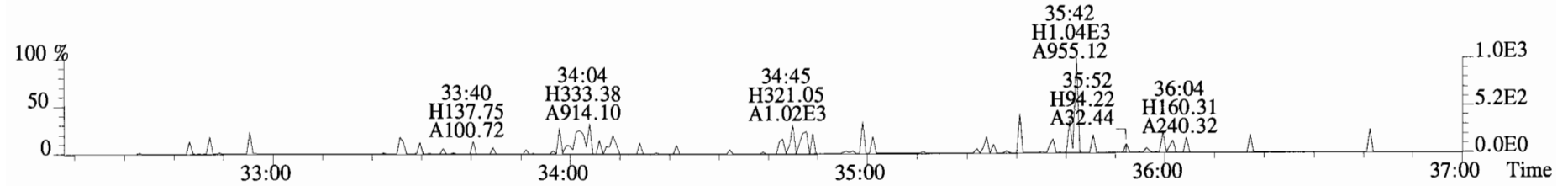
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



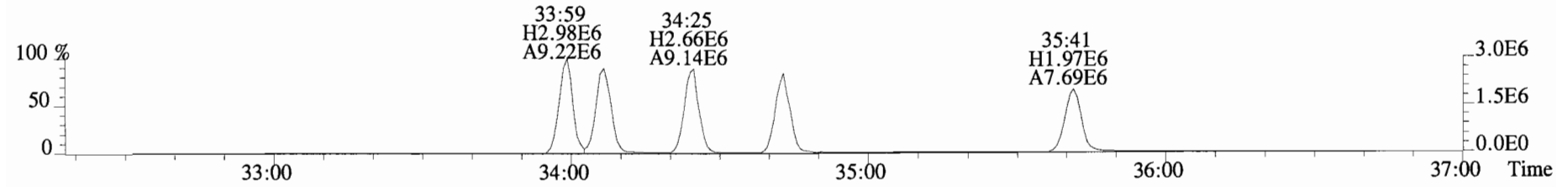
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B410053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



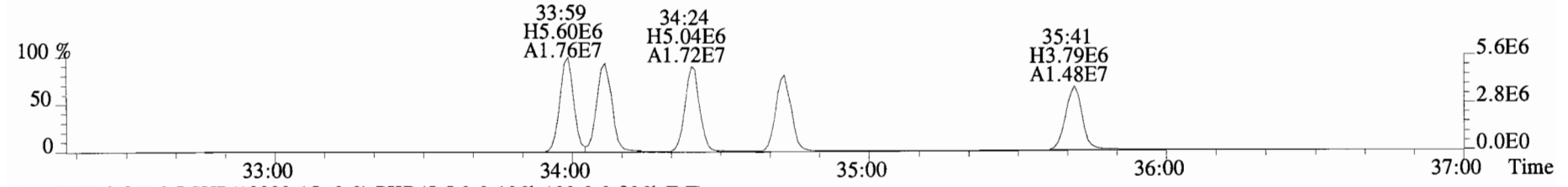
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



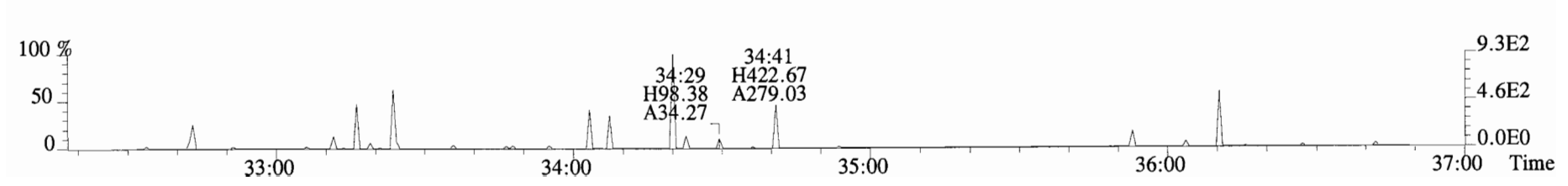
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



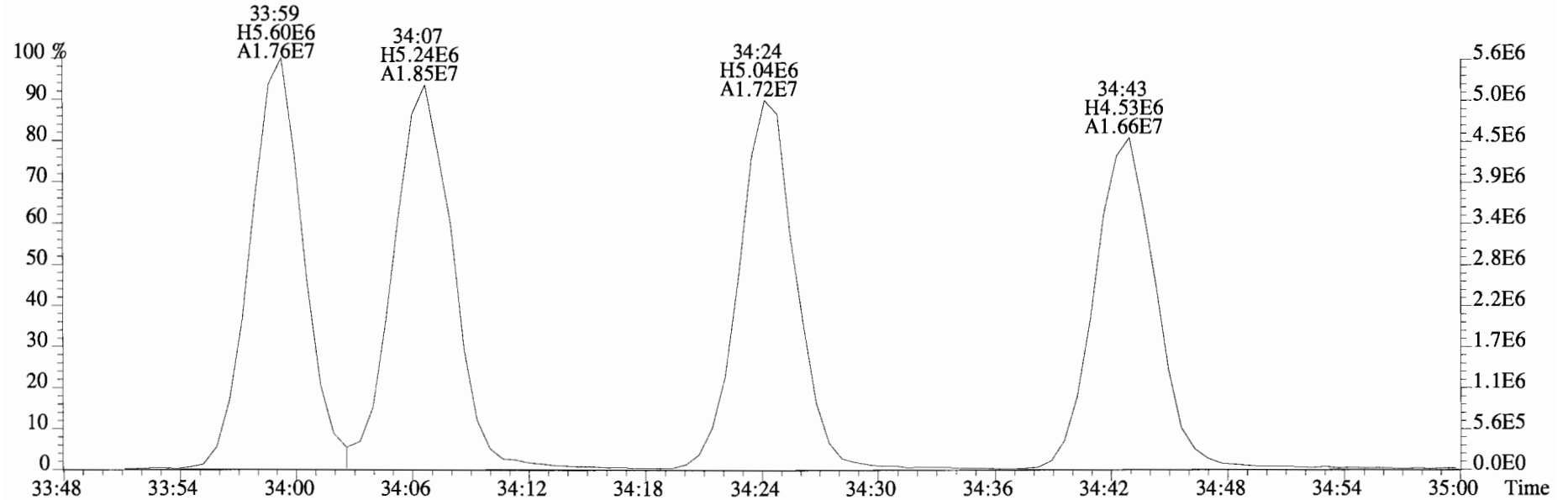
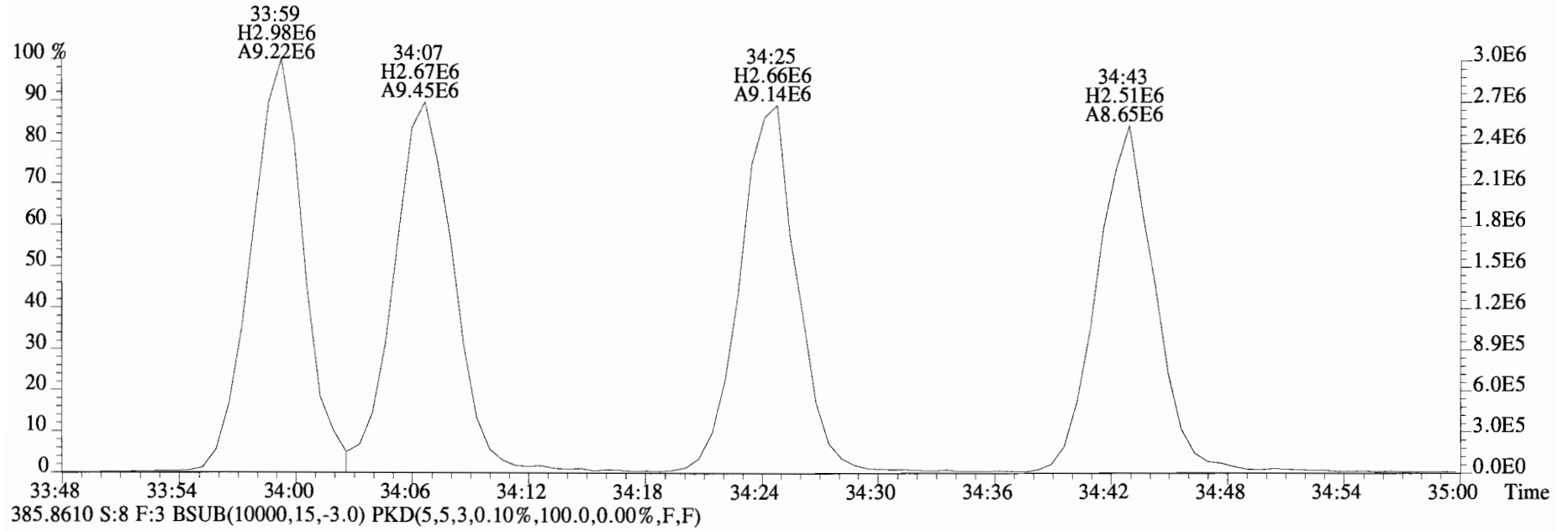
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



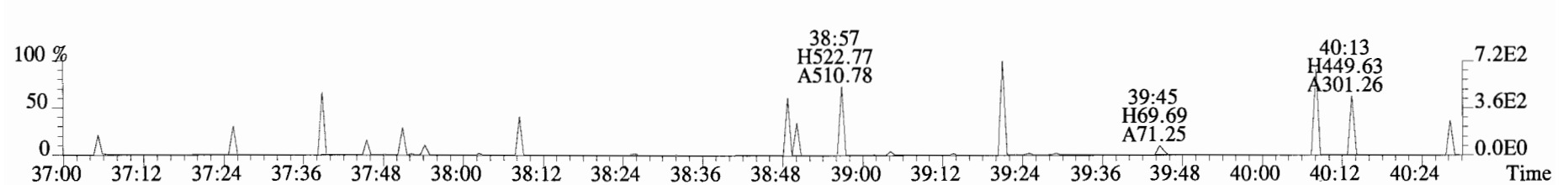
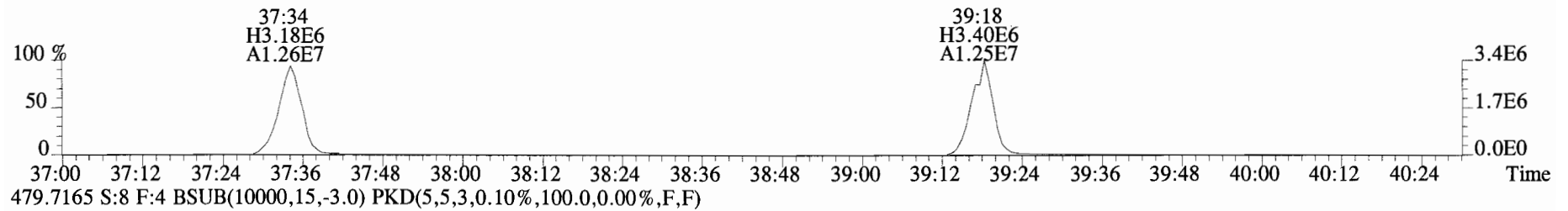
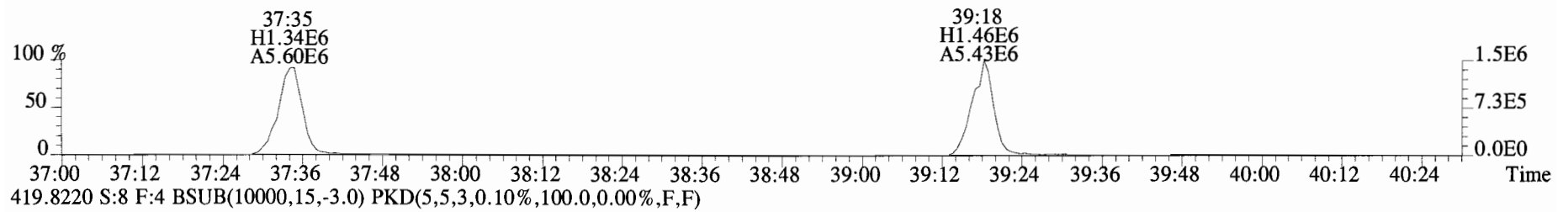
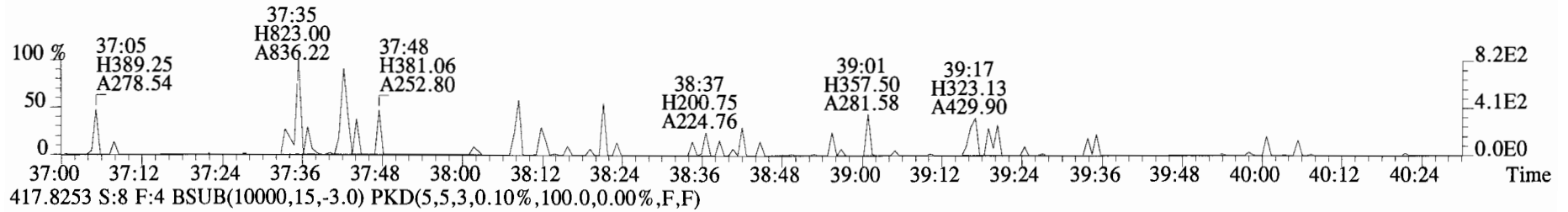
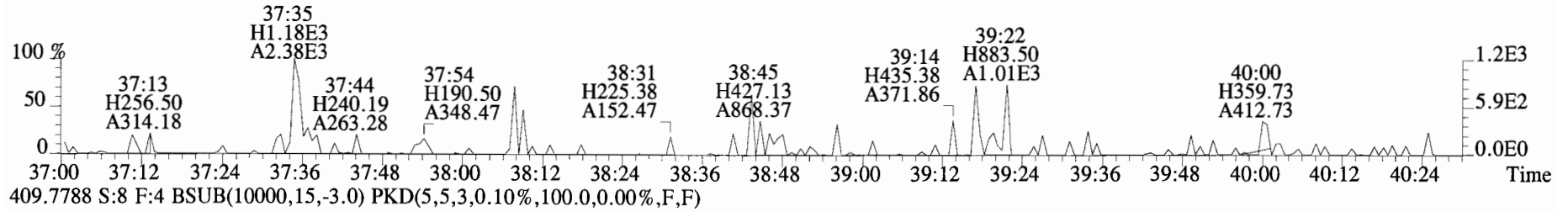
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



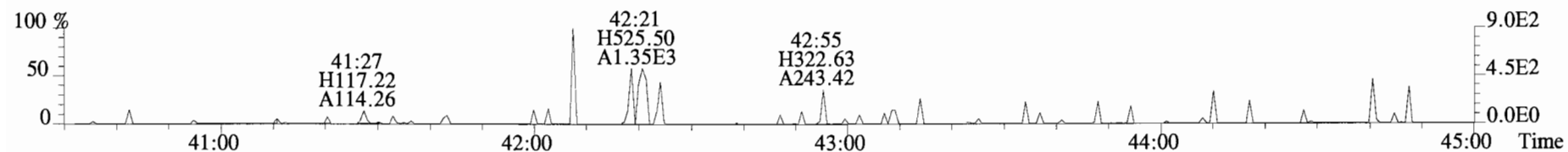
File:140917D1 #1-385 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



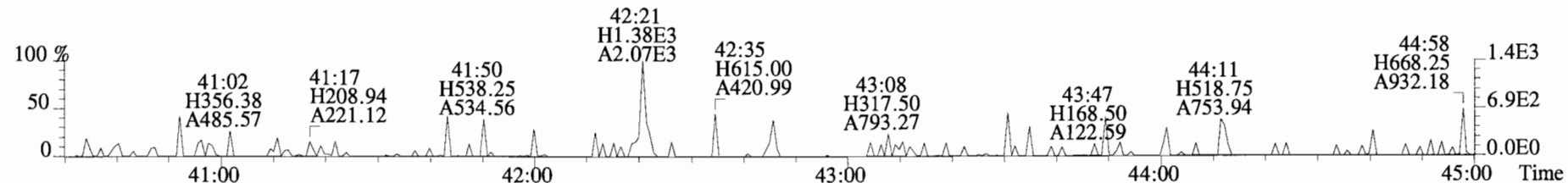
File:140917D1 #1-326 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



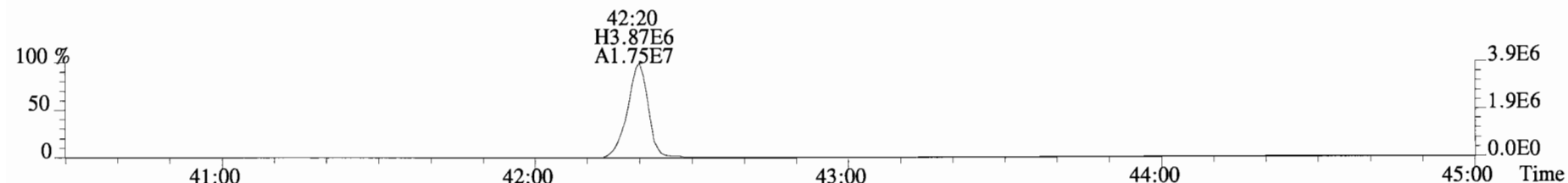
File:140917D1 #1-389 Acq:17-SEP-2014 18:50:05 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BLK1 Method Blank 10 Exp:OCDD\_DB5  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



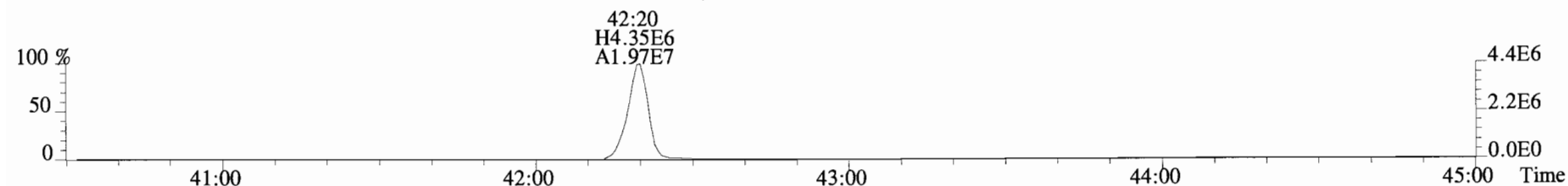
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



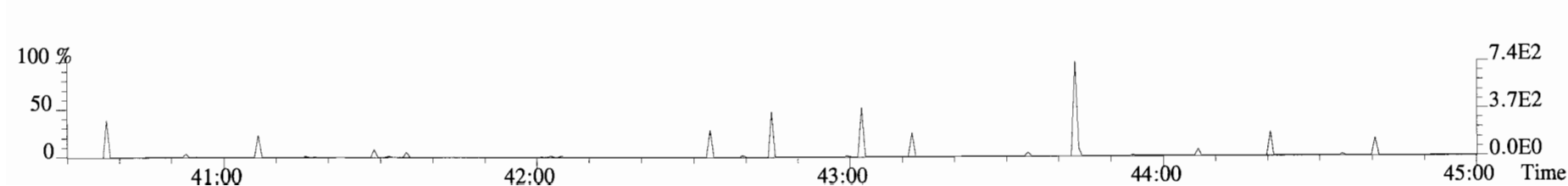
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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>					

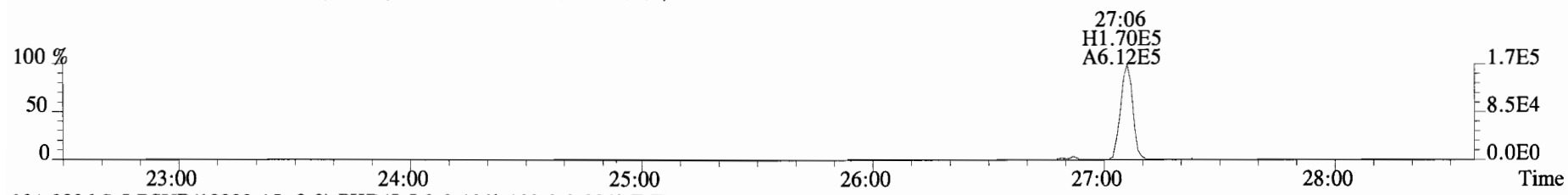
Client ID: OPR  
Lab ID: B4I0053-BS1

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

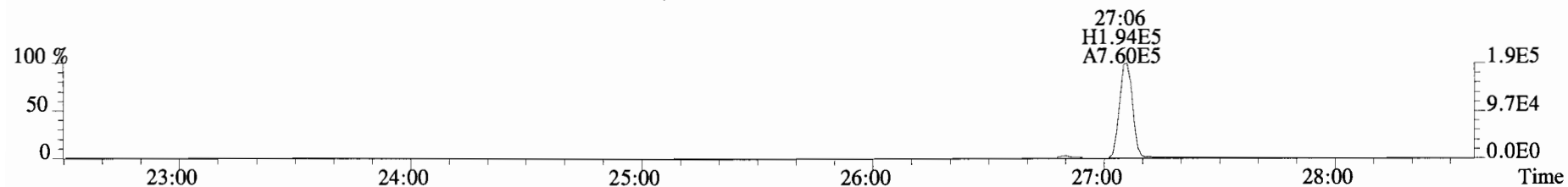
ConCal: ST140917D1-1  
EndCAL: NA

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>					

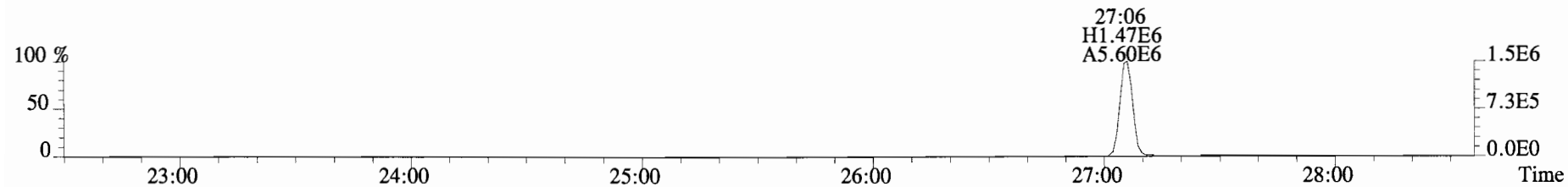
File:140917D1 #1-551 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



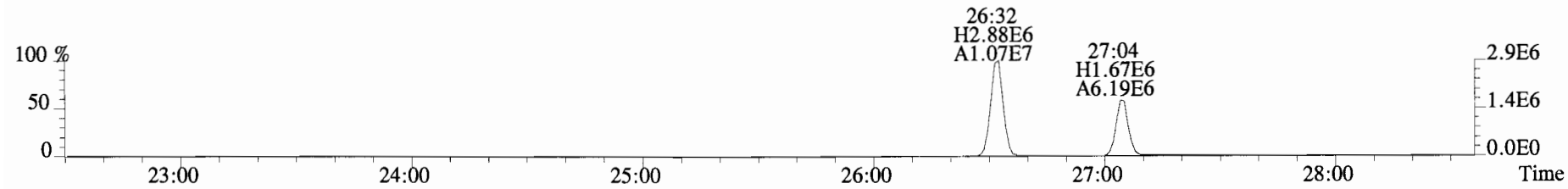
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



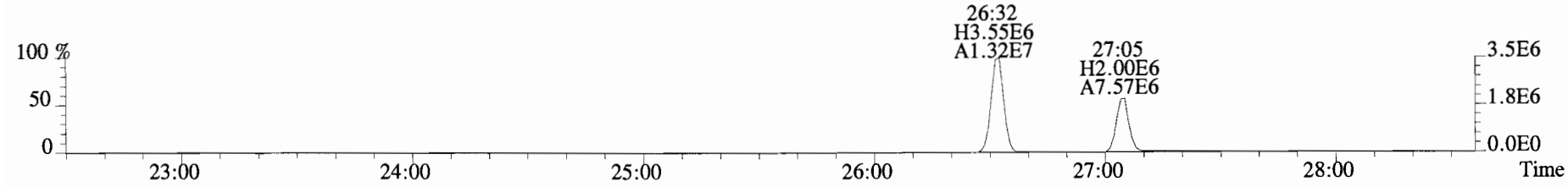
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



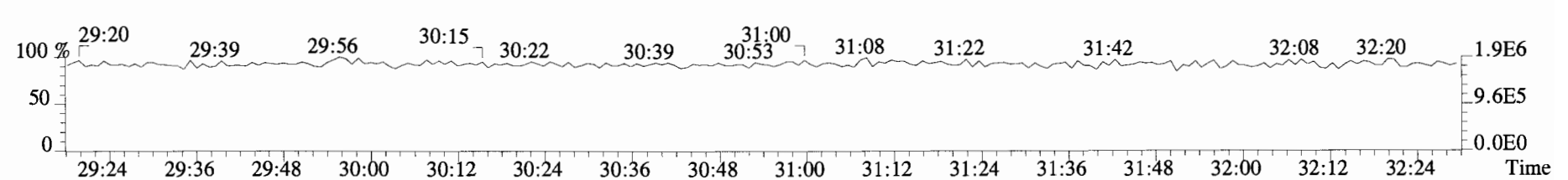
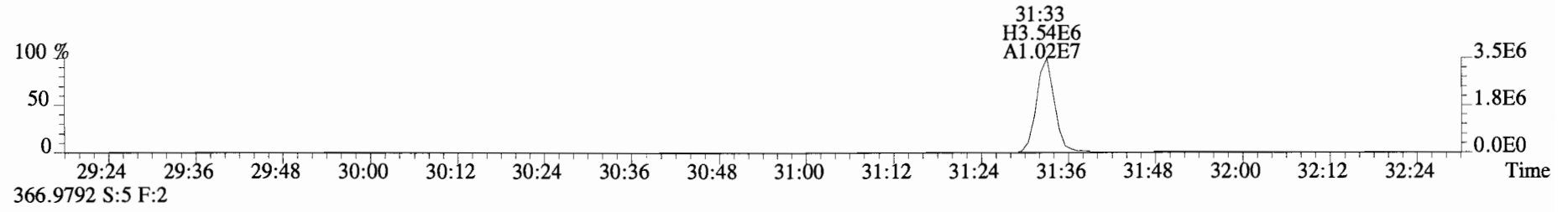
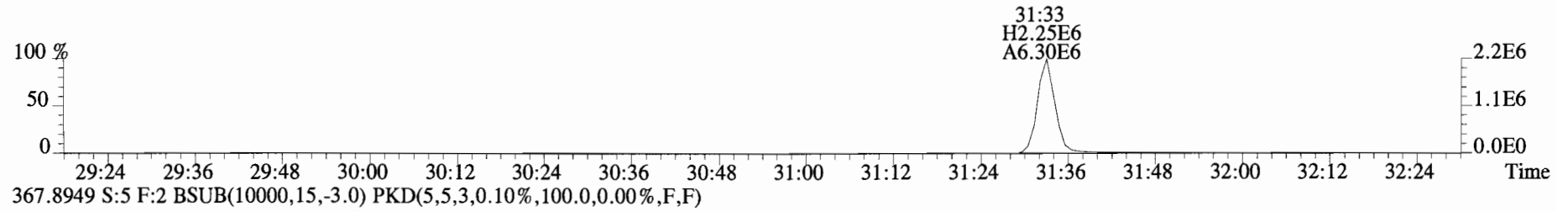
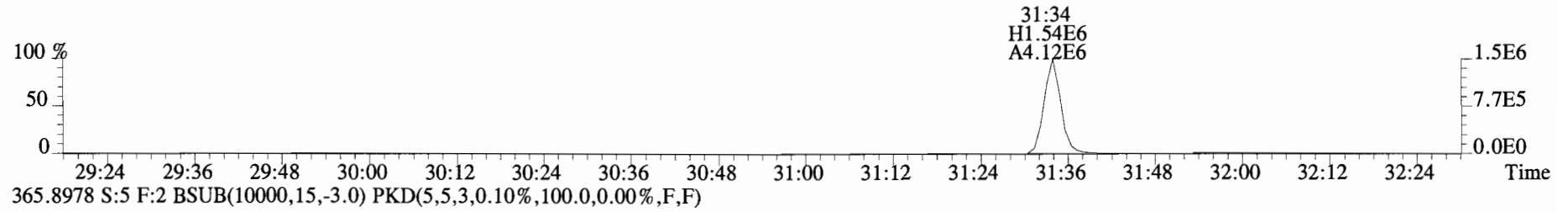
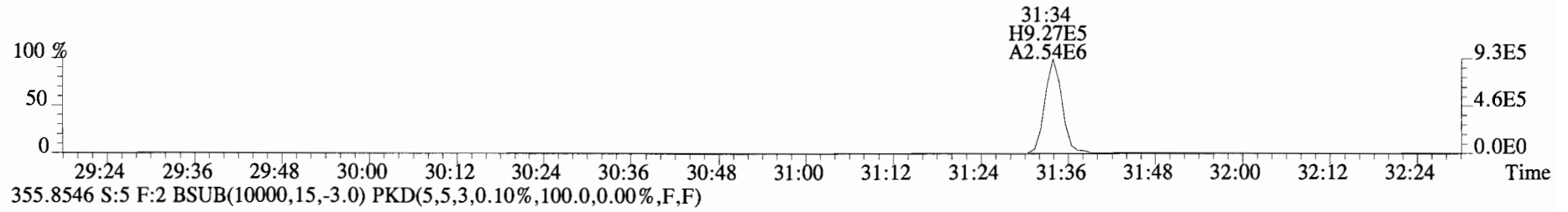
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



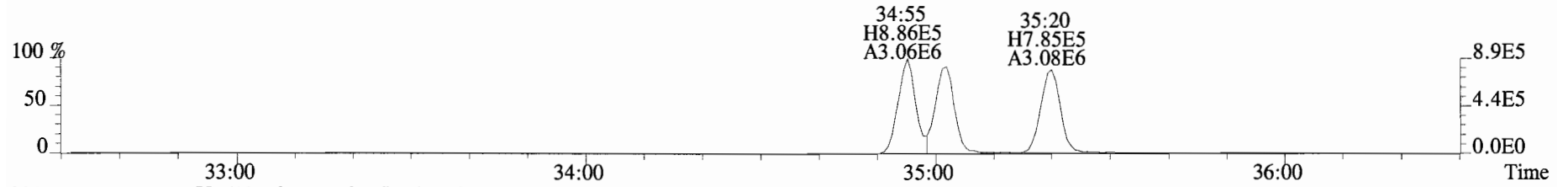
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



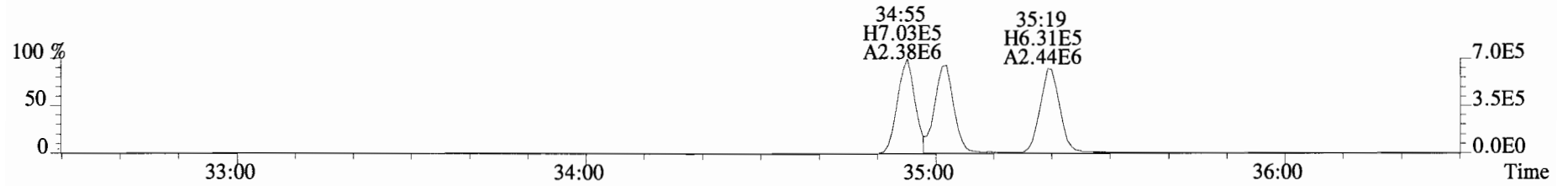
File:140917D1 #1-256 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



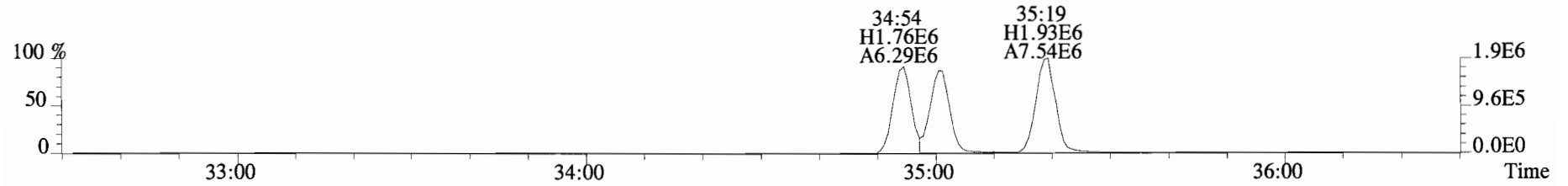
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



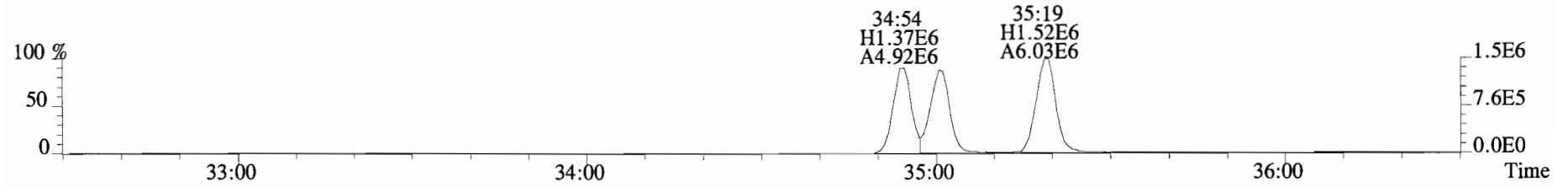
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



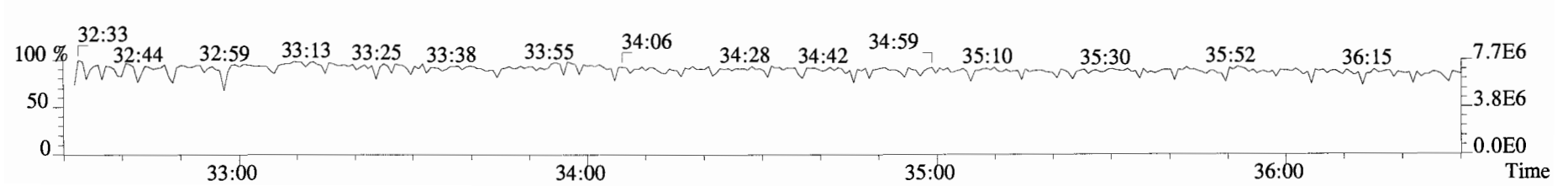
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



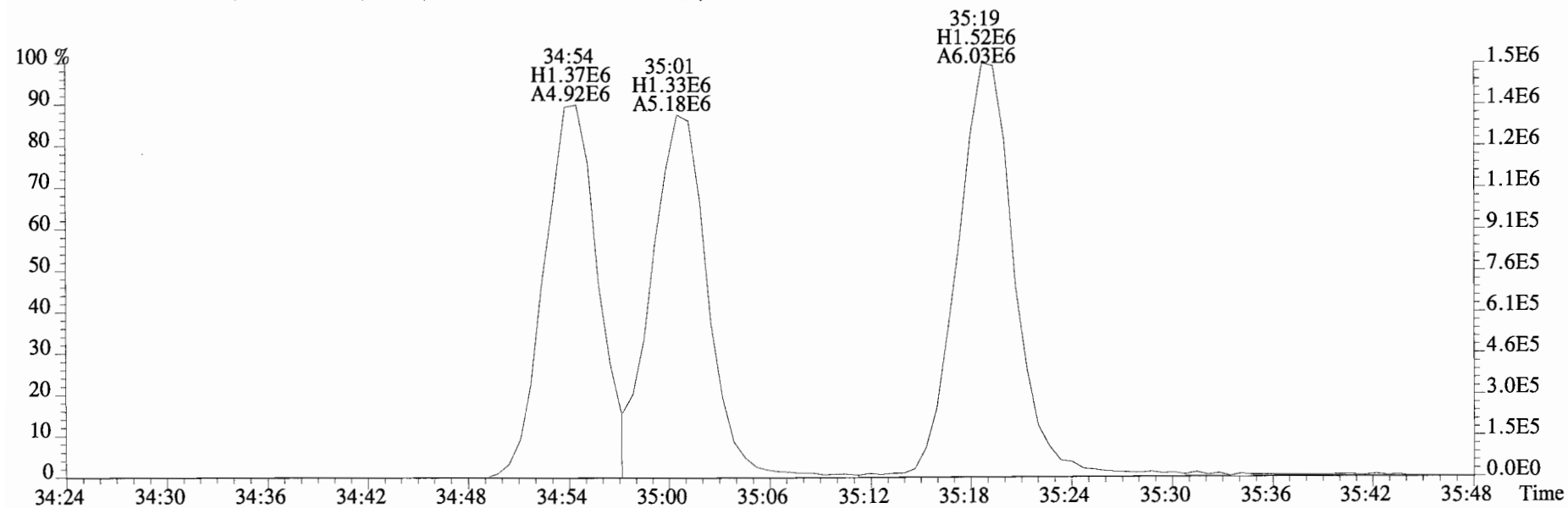
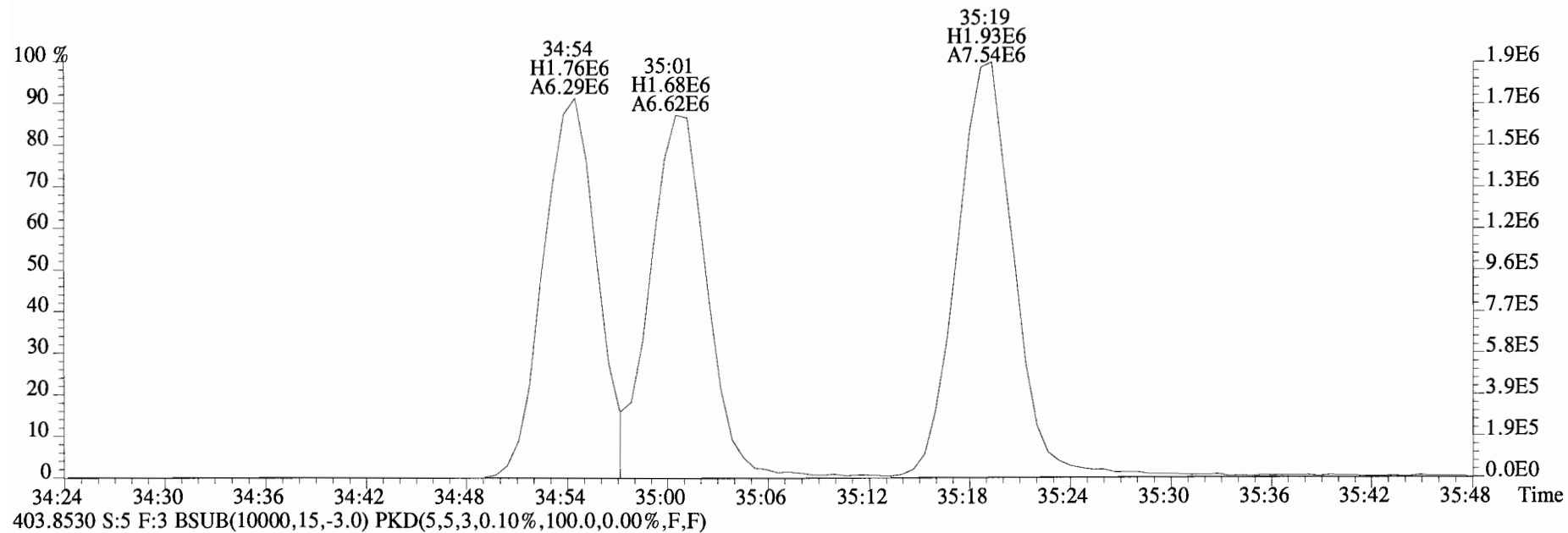
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



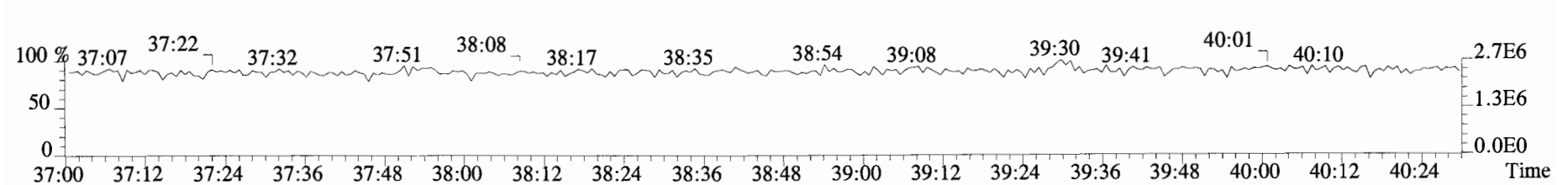
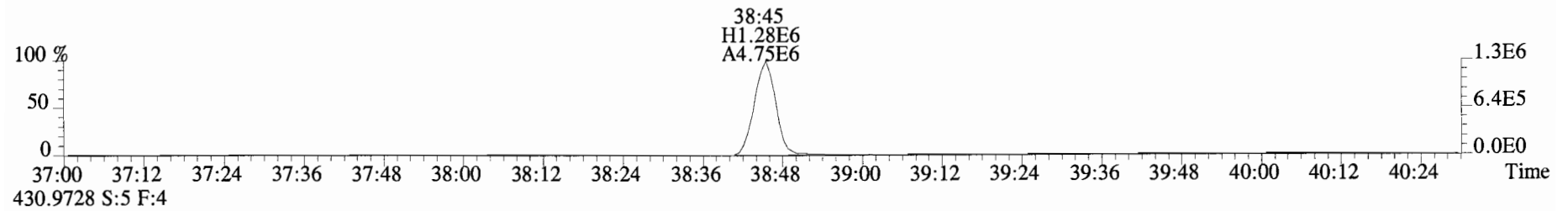
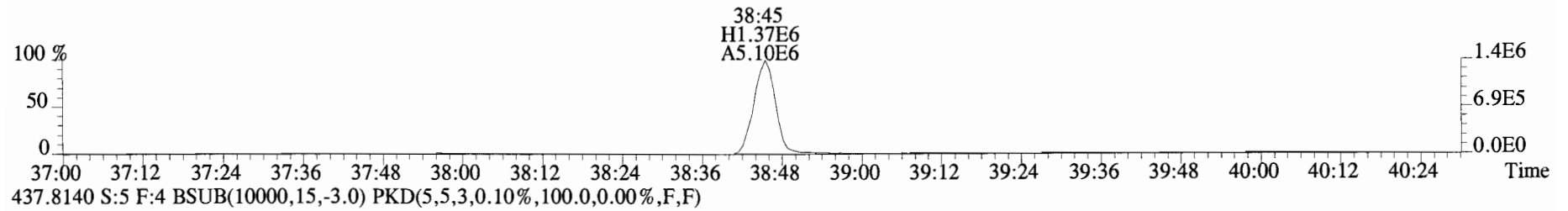
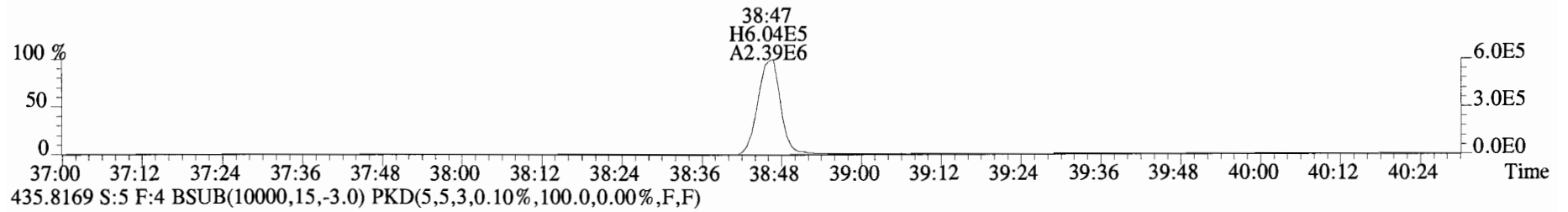
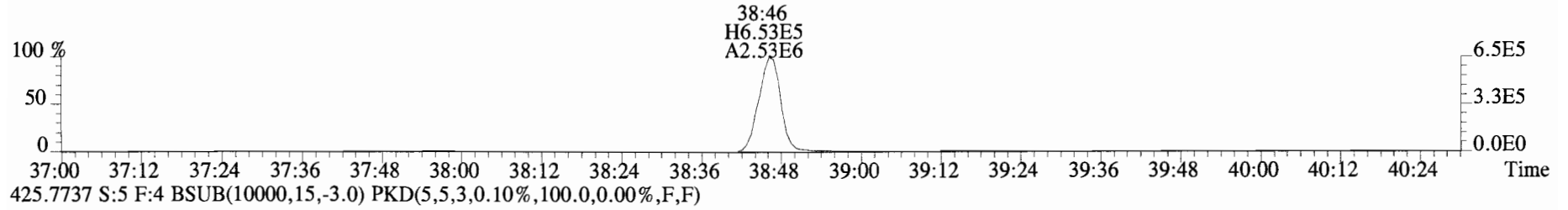
380.9760 S:5 F:3



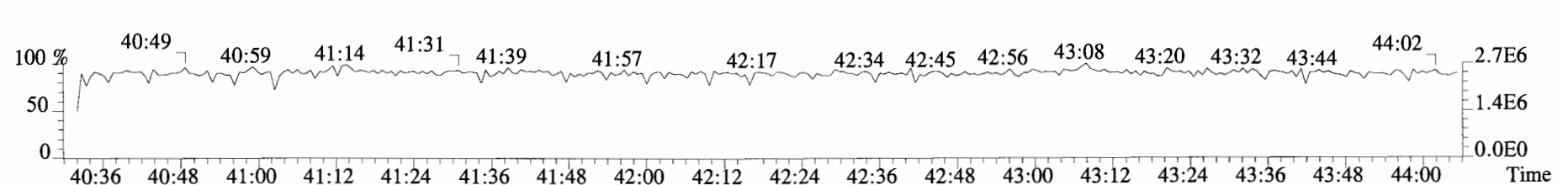
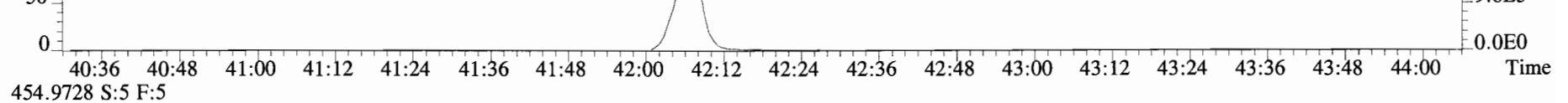
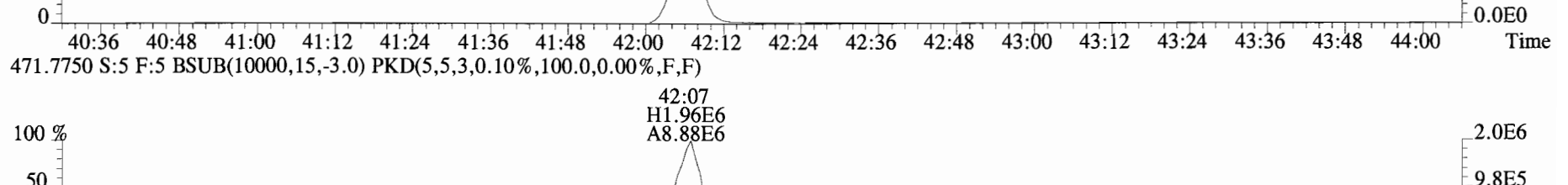
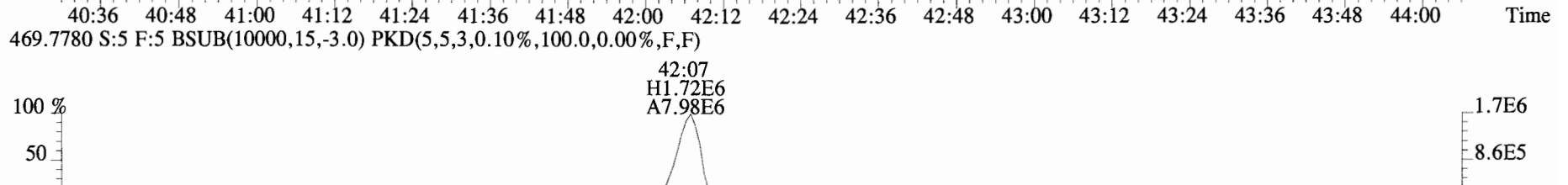
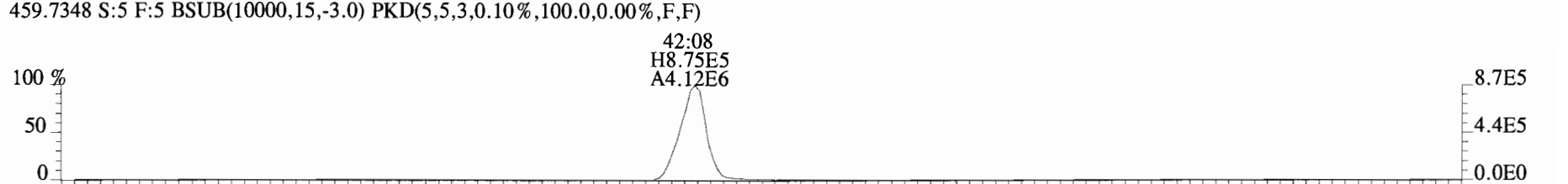
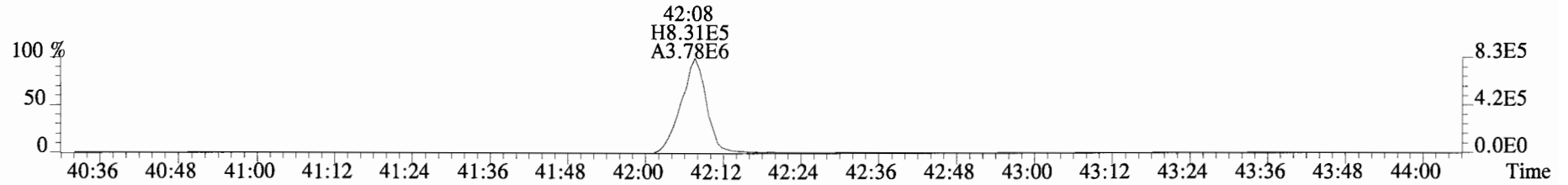
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

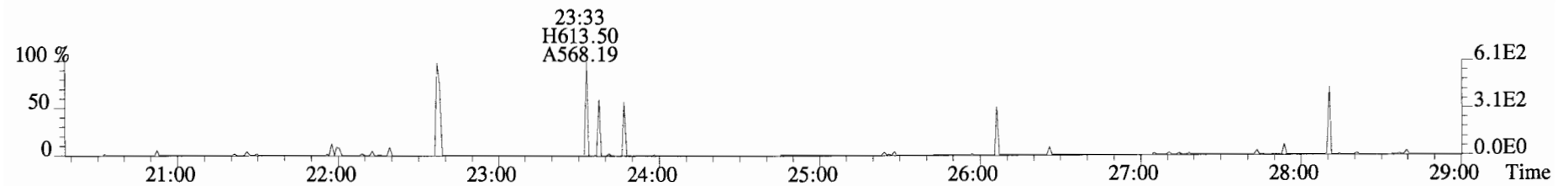
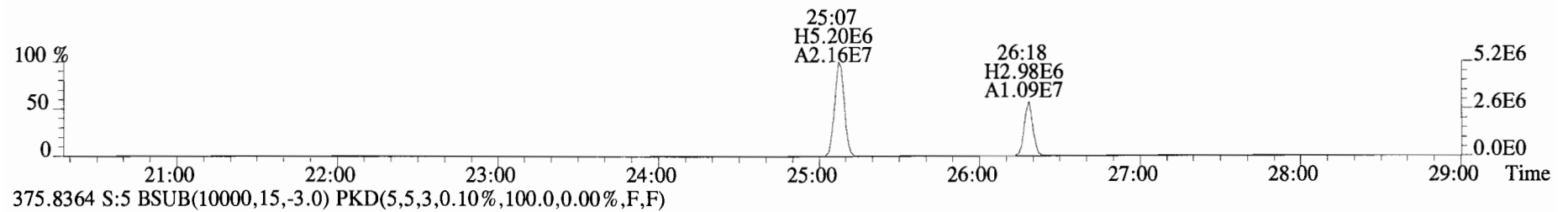
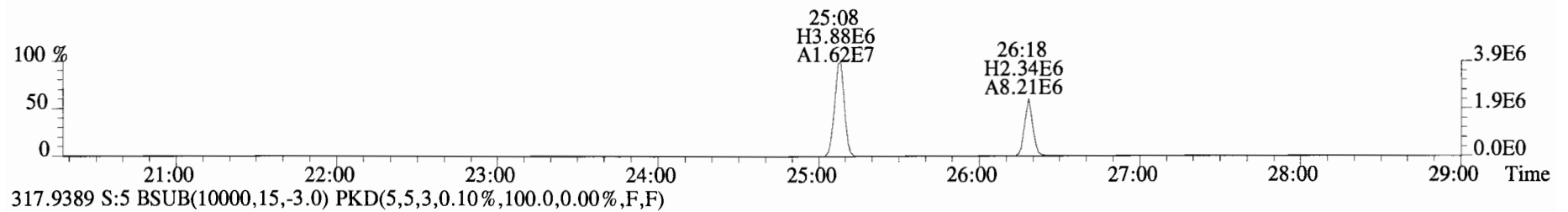
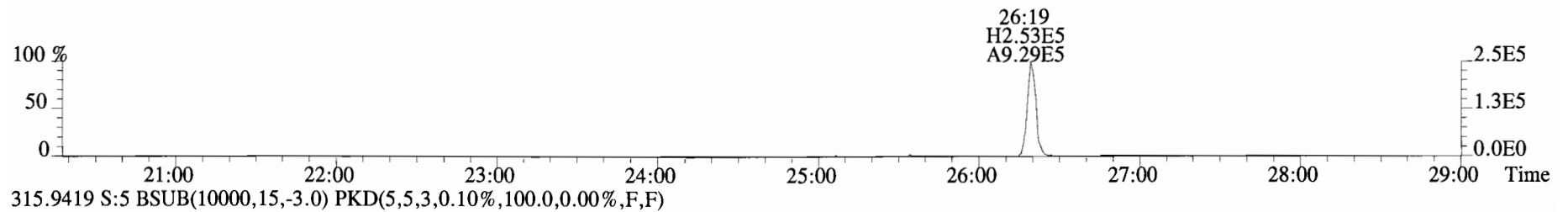
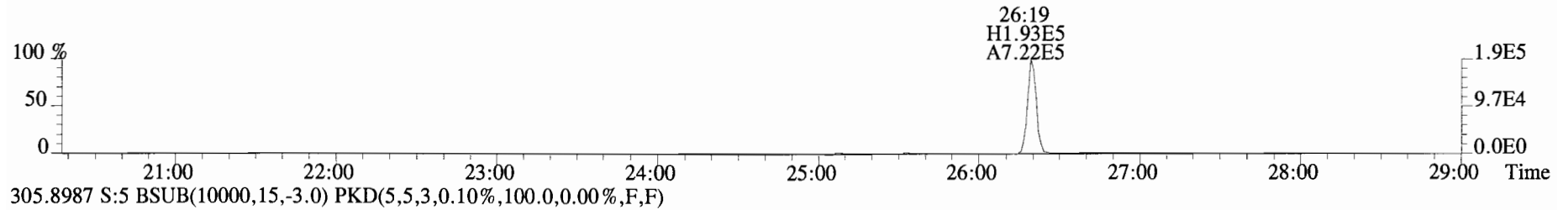


File:140917D1 #1-388 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

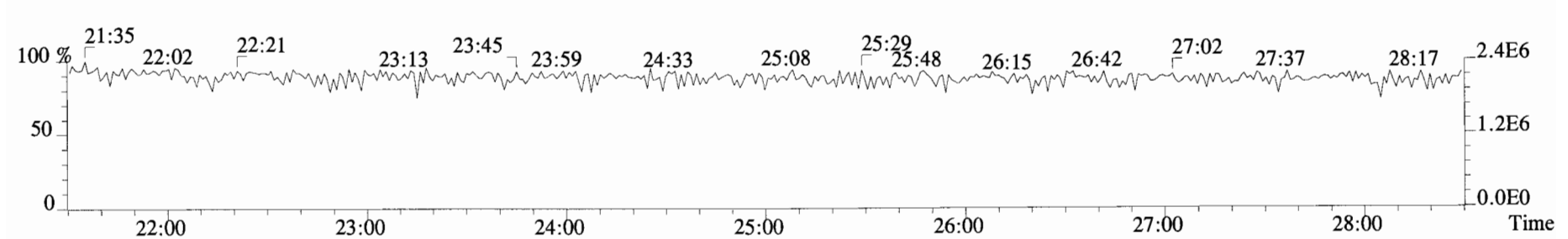
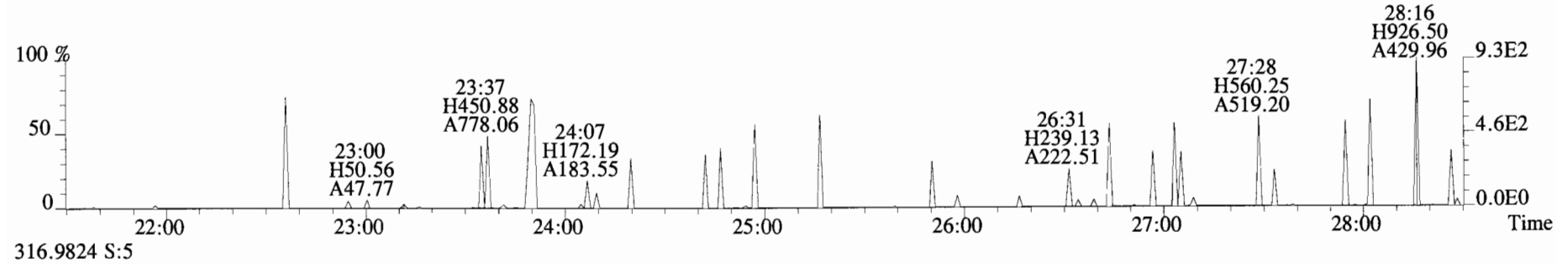
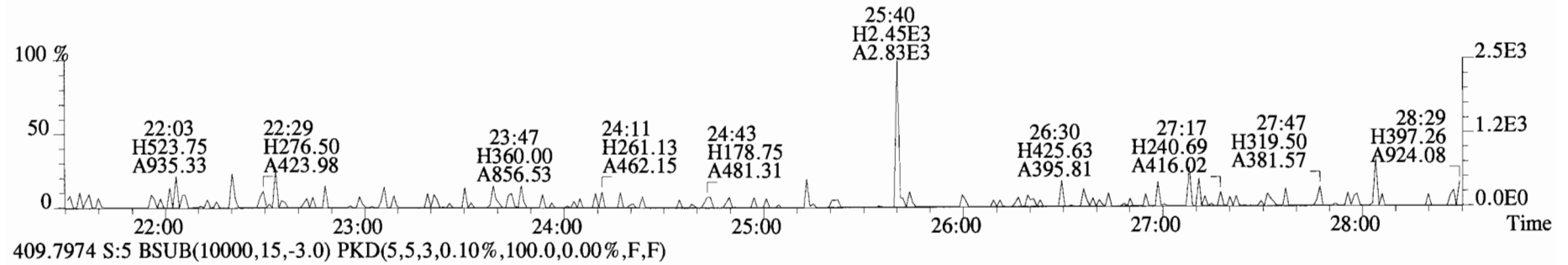
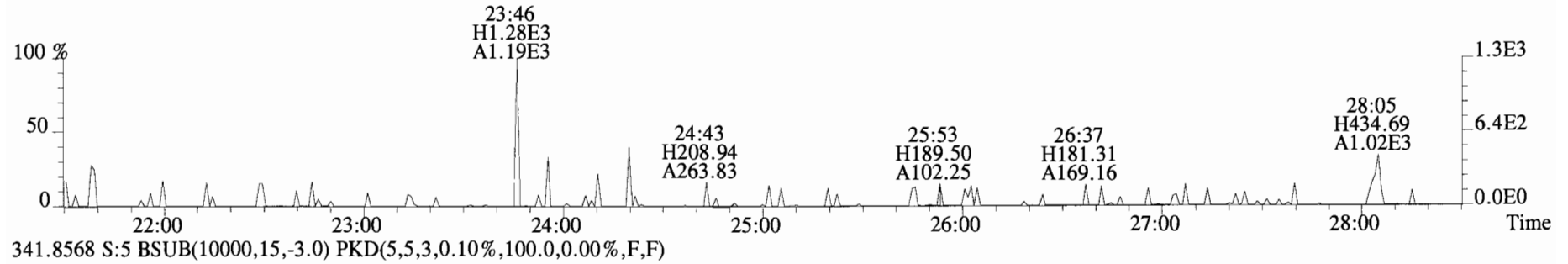




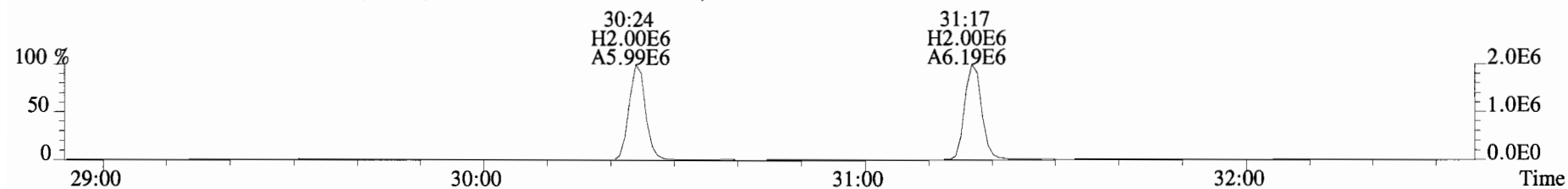
File:140917D1 #1-551 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



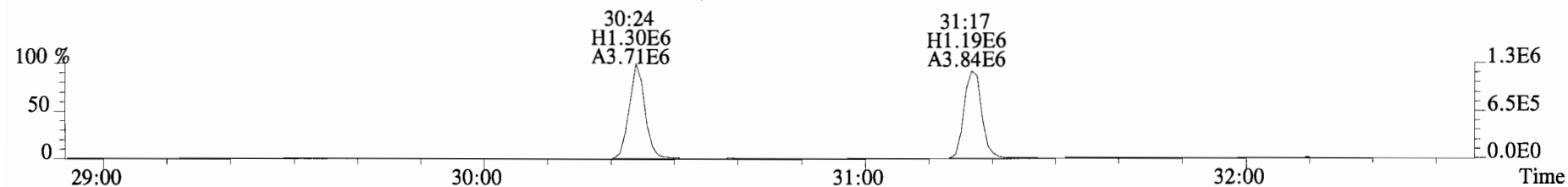
File:140917D1 #1-551 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



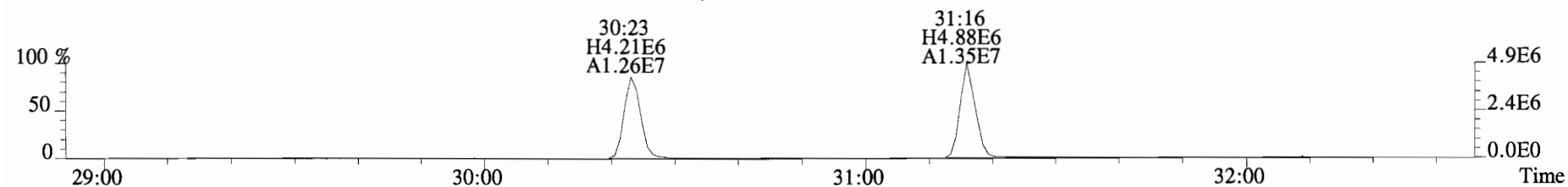
File:140917D1 #1-256 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



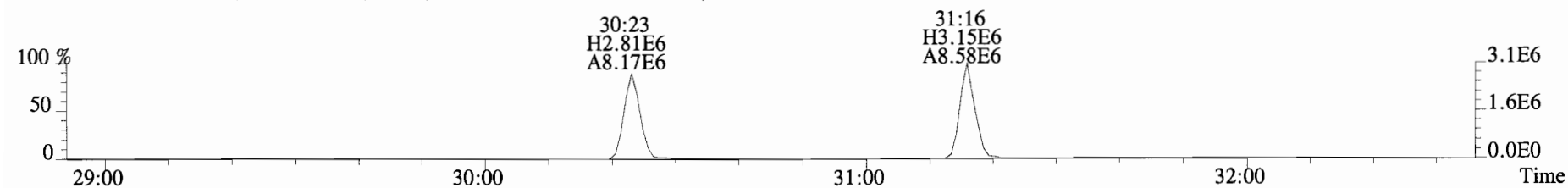
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



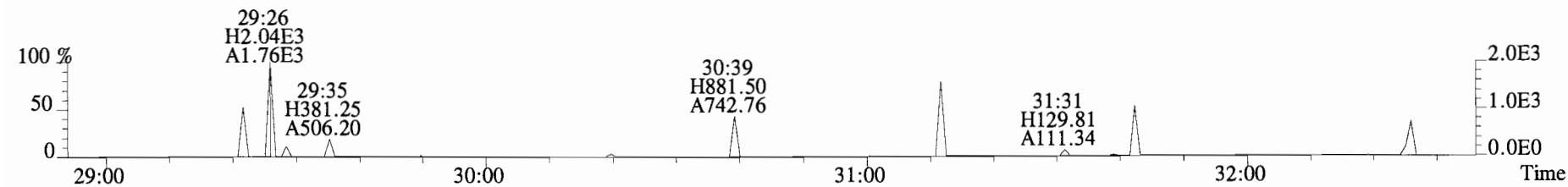
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



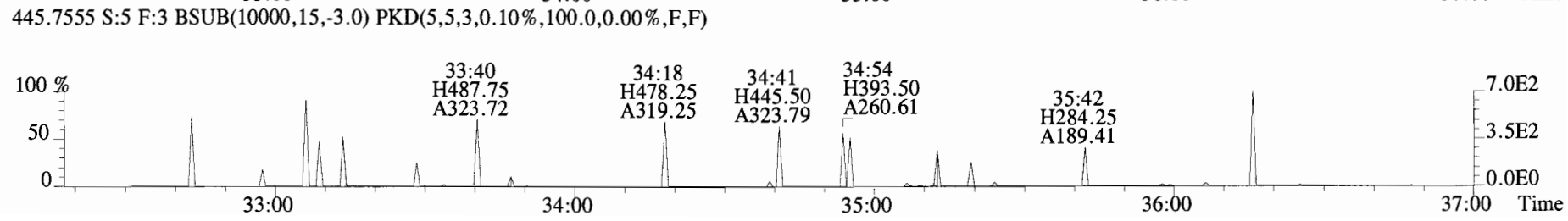
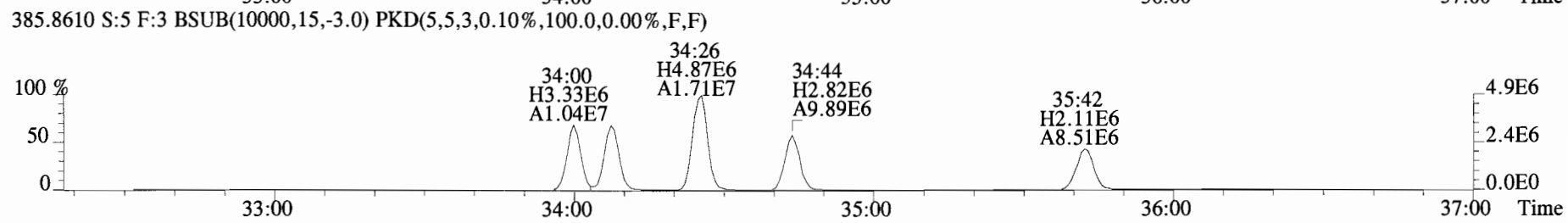
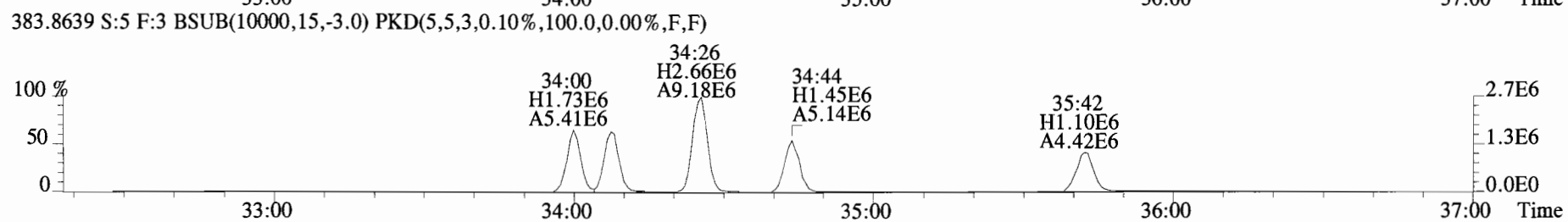
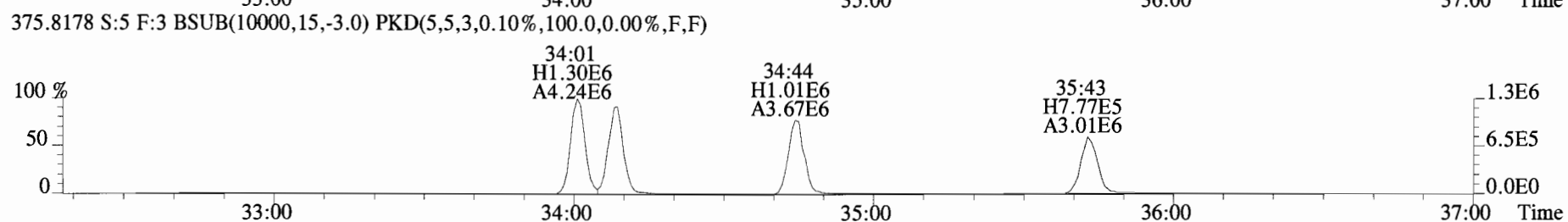
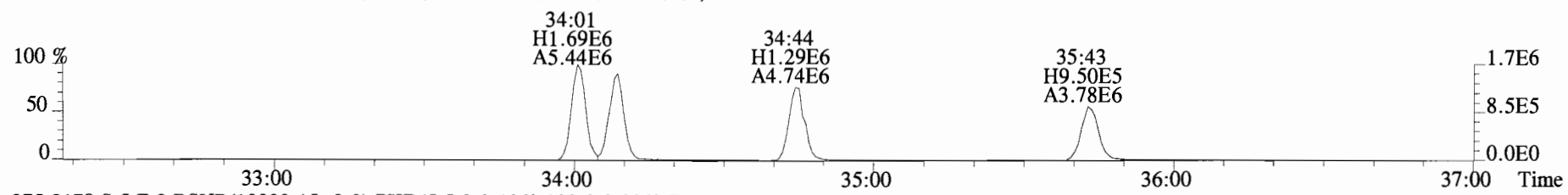
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



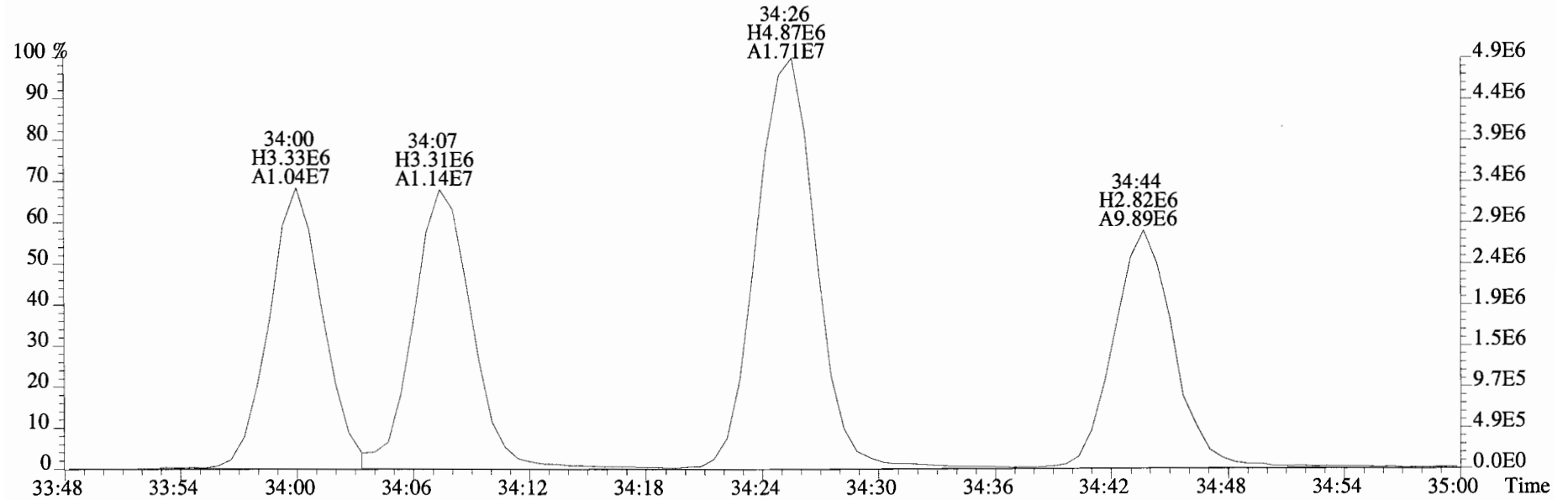
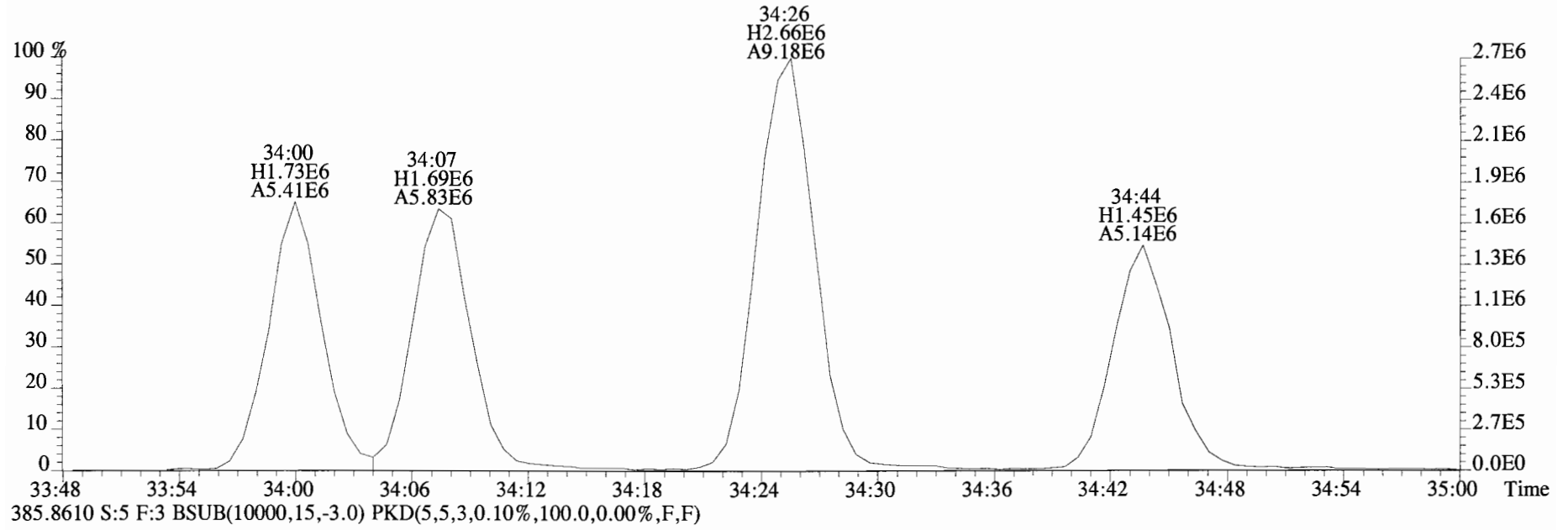
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



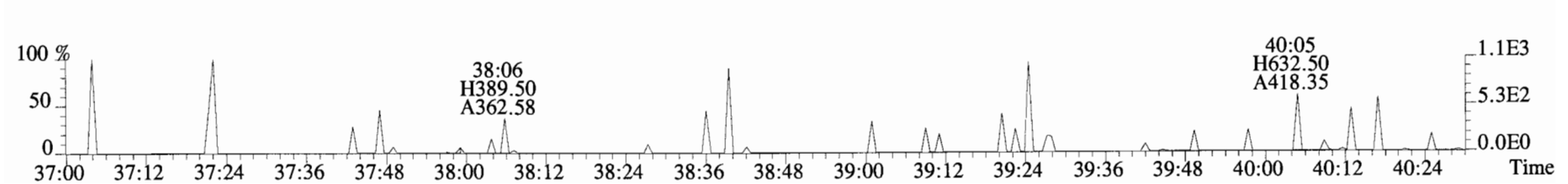
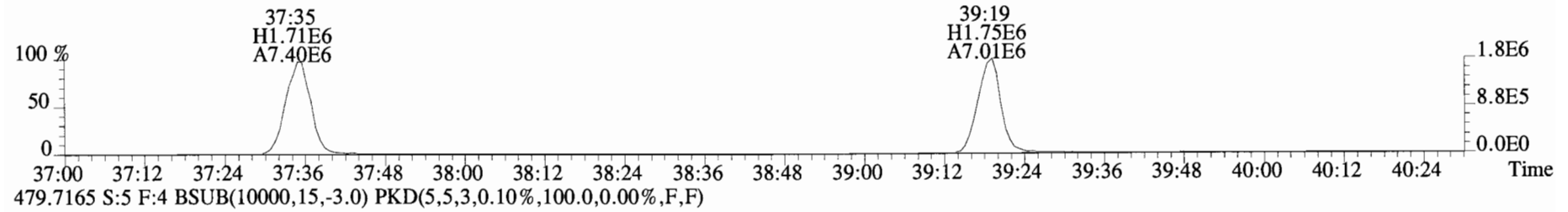
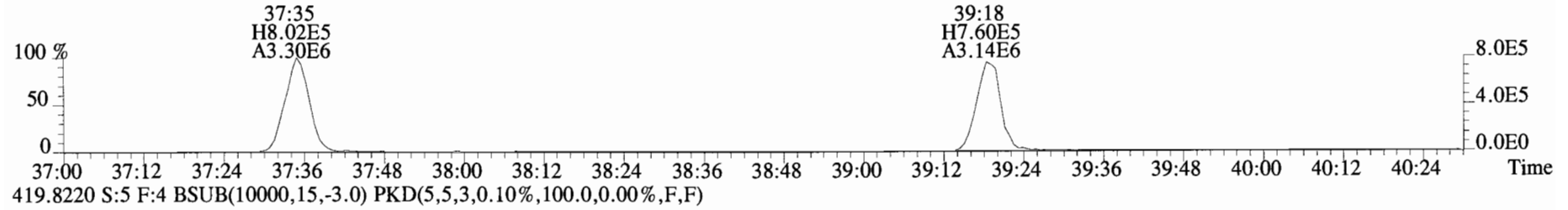
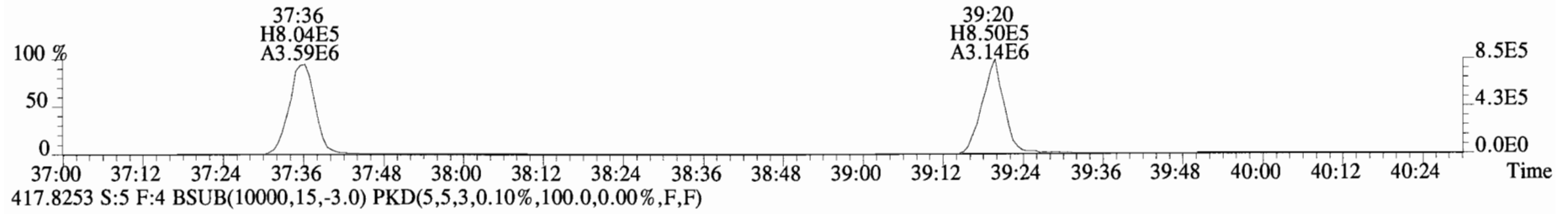
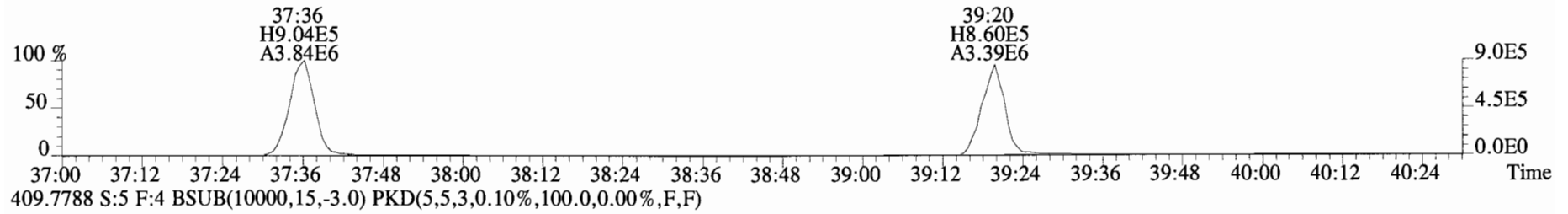
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



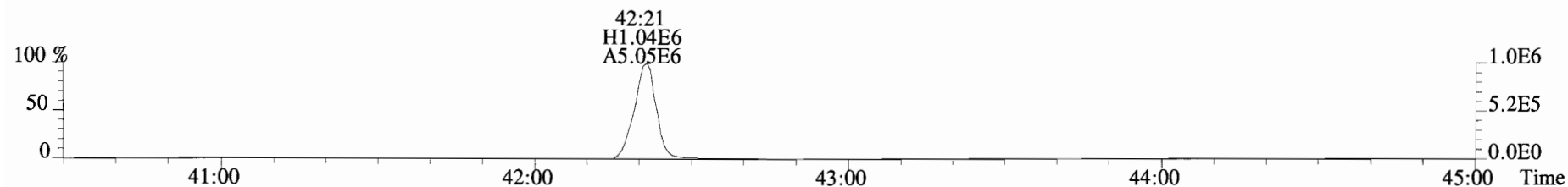
File:140917D1 #1-385 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



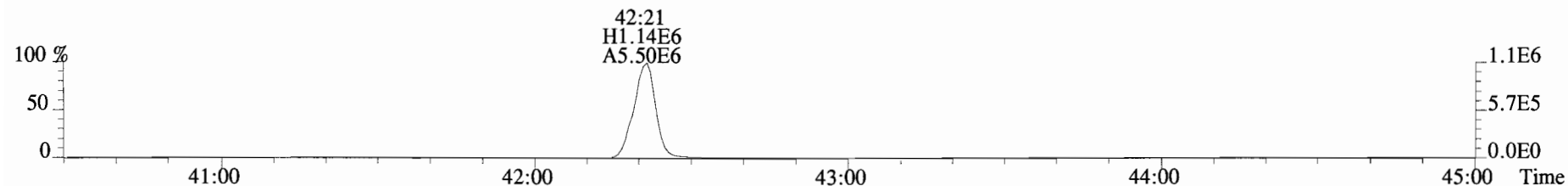
File:140917D1 #1-326 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



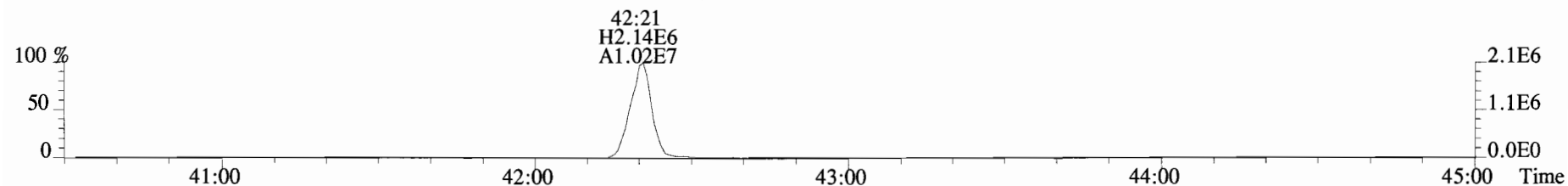
File:140917D1 #1-388 Acq:17-SEP-2014 16:25:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B4I0053-BS1 OPR 10 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



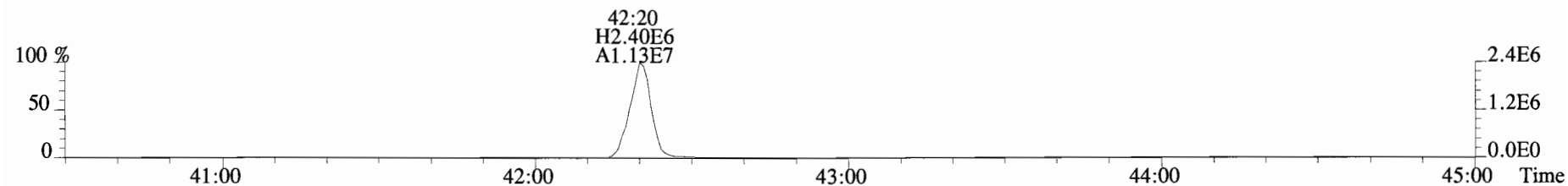
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



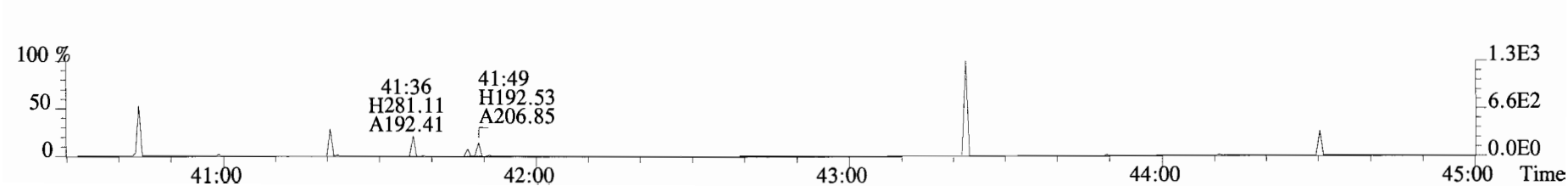
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	4.35e+04	0.61 n	1.03	27:03	1.001	0.48607	*	2.5	*	*	Total Tetra-Dioxins	15.9	17.4	*	*	
1,2,3,7,8-PeCDD	2.67e+05	0.60 y	0.84	31:32	1.001	2.9812	*	2.5	*	*	Total Penta-Dioxins	31.3	31.3	*	*	
1,2,3,4,7,8-HxCDD	4.14e+05	1.21 y	1.05	34:53	1.000	4.4480	*	2.5	*	*	Total Hexa-Dioxins	117	117	*	*	
1,2,3,6,7,8-HxCDD	1.46e+06	1.24 y	1.04	34:59	1.000	13.933	*	2.5	*	*	Total Hepta-Dioxins	653	653	*	*	
1,2,3,7,8,9-HxCDD	9.22e+05	1.29 y	0.90	35:18	1.001	9.6842	*	2.5	*	*	Total Tetra-Furans	70.4	70.4	*	*	
1,2,3,4,6,7,8-HpCDD	2.67e+07	1.03 y	1.01	38:44	1.000	318.74	*	2.5	*	*	Total Penta-Furans	74.329	74.585	*	*	
OCDD	1.79e+08	0.89 y	1.04	42:06	1.000	2381.5	*	2.5	*	*	Total Hexa-Furans	90.4	90.4	*	*	
											Total Hepta-Furans	143	143	*	*	

2,3,7,8-TCDF	4.15e+05	0.79 y	0.91	26:17	1.001	3.4988	(3.06) *	2.5	*	*
1,2,3,7,8-PeCDF	3.46e+05	1.62 y	0.97	30:22	1.001	2.2896	*	2.5	*	*
2,3,4,7,8-PeCDF	5.11e+05	1.46 y	0.94	31:14	1.000	3.6025	*	2.5	*	*
1,2,3,4,7,8-HxCDF	9.38e+05	1.29 y	1.32	33:58	1.000	5.7061	*	2.5	*	*
1,2,3,6,7,8-HxCDF	7.41e+05	1.29 y	1.18	34:06	1.000	5.0096	*	2.5	*	*
2,3,4,6,7,8-HxCDF	8.88e+05	1.30 y	1.23	34:43	1.001	6.2300	*	2.5	*	*
1,2,3,7,8,9-HxCDF	5.63e+04	1.17 y	1.13	35:40	1.000	0.45110	*	2.5	*	*
1,2,3,4,6,7,8-HpCDF	9.51e+06	1.08 y	1.57	37:34	1.001	68.220	*	2.5	*	*
1,2,3,4,7,8,9-HpCDF	6.24e+05	1.16 y	1.50	39:17	1.000	4.9737	*	2.5	*	*
OCDF	1.00e+07	0.89 y	1.05	42:19	1.000	112.23	*	2.5	*	*

IS	13C-2,3,7,8-TCDD	1.72e+07	0.82 y	1.06	27:02	1.021	146.69	73.8
IS	13C-1,2,3,7,8-PeCDD	2.12e+07	0.62 y	1.08	31:31	1.190	177.08	89.1
IS	13C-1,2,3,4,7,8-HxCDD	1.76e+07	1.29 y	0.74	34:52	1.014	166.11	83.5
IS	13C-1,2,3,6,7,8-HxCDD	2.01e+07	1.25 y	0.75	34:59	1.017	187.50	94.3
IS	13C-1,2,3,7,8,9-HxCDD	2.11e+07	1.27 y	0.89	35:17	1.026	165.77	83.4
IS	13C-1,2,3,4,6,7,8-HpCDD	1.65e+07	1.06 y	0.70	38:44	1.126	163.97	82.5
IS	13C-OCDD	2.86e+07	0.90 y	0.59	42:05	1.224	339.72	85.4
IS	13C-2,3,7,8-TCDF	2.59e+07	0.75 y	0.97	26:16	0.992	161.05	81.0
IS	13C-1,2,3,7,8-PeCDF	3.09e+07	1.56 y	0.99	30:21	1.146	188.03	94.6
IS	13C-2,3,4,7,8-PeCDF	3.00e+07	1.62 y	1.01	31:14	1.179	179.60	90.3
IS	13C-1,2,3,4,7,8-HxCDF	2.48e+07	0.51 y	0.94	33:58	0.988	184.18	92.6
IS	13C-1,2,3,6,7,8-HxCDF	2.50e+07	0.52 y	1.23	34:05	0.991	142.41	71.6
IS	13C-2,3,4,6,7,8-HxCDF	2.31e+07	0.51 y	1.03	34:42	1.009	155.95	78.4
IS	13C-1,2,3,7,8,9-HxCDF	2.20e+07	0.51 y	0.89	35:40	1.037	173.37	87.2
IS	13C-1,2,3,4,6,7,8-HpCDF	1.76e+07	0.45 y	0.71	37:33	1.092	174.27	87.6
IS	13C-1,2,3,4,7,8,9-HpCDF	1.66e+07	0.44 y	0.64	39:17	1.142	180.73	90.9
IS	13C-OCDF	3.37e+07	0.90 y	0.76	42:19	1.230	310.32	78.0

C/Up	37C1-2,3,7,8-TCDD	6.92e+06		1.04	27:03	1.022	60.028	75.5
RS/RT	13C-1,2,3,4-TCDD	2.19e+07	0.81 y	1.00	26:29	*	198.83	
RS	13C-1,2,3,4-TCDF	3.30e+07	0.75 y	1.00	25:05	*	198.83	
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.84e+07	0.52 y	1.00	34:23	*	198.83	

Rec Qual

Integrations Reviewed  
 by Analyst: m by Analyst: JK

Date: 9/18/14 Date: 9/20/14



Totals class: TCDD EMPC

Entry #: 19

Run: 14 File: 140917D1 S: 11 I: 1 F: 1  
 Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 17.422

Unnamed Concentration: 16.936

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
23:44	1.959e+05	2.465e+05	0.79	y	4.424e+05	4.9457	
24:04	1.138e+05	1.494e+05	0.76	y	2.632e+05	2.9425	
24:29	3.379e+04	3.551e+04	0.95	n	6.286e+04	0.70276	
25:12	9.239e+03	1.280e+04	0.72	y	2.204e+04	0.24639	
25:26	6.661e+04	8.026e+04	0.83	y	1.469e+05	1.6420	
25:35	5.041e+04	7.293e+04	0.69	y	1.233e+05	1.3789	
25:46	2.700e+04	3.222e+04	0.84	y	5.921e+04	0.66203	
26:09	3.206e+04	4.093e+04	0.78	y	7.299e+04	0.81601	
26:30	4.185e+04	5.164e+04	0.81	y	9.349e+04	1.0452	
26:48	4.530e+04	6.920e+04	0.65	y	1.145e+05	1.2801	
26:56	7.797e+03	1.261e+04	0.62	n	1.792e+04	0.20039	
27:03	1.891e+04	3.075e+04	0.61	n	4.348e+04	0.48607	2,3,7,8-TCDD
27:20	2.451e+04	3.649e+04	0.67	y	6.100e+04	0.68202	
27:27	9.714e+03	7.331e+03	1.33	n	1.298e+04	0.14508	
27:54	9.443e+03	1.262e+04	0.75	y	2.207e+04	0.24672	

Totals class: PeCDD EMPC

Entry #: 21

Run: 14 File: 140917D1 S: 11 I: 1 F: 2  
 Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 31.335

Unnamed Concentration: 28.354

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:30	3.188e+05	5.066e+05	0.63	y	8.254e+05	9.2051
29:56	5.980e+04	9.334e+04	0.64	y	1.531e+05	1.7079
30:22	1.395e+05	2.148e+05	0.65	y	3.543e+05	3.9515
30:32	1.004e+05	1.517e+05	0.66	y	2.522e+05	2.8122
30:37	1.051e+05	1.699e+05	0.62	y	2.751e+05	3.0676
30:50	1.310e+05	2.175e+05	0.60	y	3.485e+05	3.8866
31:08	5.457e+04	9.197e+04	0.59	y	1.465e+05	1.6342
31:32	1.007e+05	1.666e+05	0.60	y	2.673e+05	2.9812
31:36	3.283e+04	4.696e+04	0.70	y	7.980e+04	0.88991
31:53	4.132e+04	6.615e+04	0.62	y	1.075e+05	1.1986

1,2,3,7,8-PeCDD

Totals class: HxCDD EMPC

Entry #: 23

Run: 14 File: 140917D1 S: 11 I: 1 F: 3  
 Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 117.18

Unnamed Concentration: 89.114

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
33:19	1.505e+06	1.197e+06	1.26	y	2.702e+06	27.695
33:54	5.685e+05	4.763e+05	1.19	y	1.045e+06	10.709
34:10	2.421e+06	1.914e+06	1.26	y	4.335e+06	44.440
34:17	1.582e+05	1.400e+05	1.13	y	2.982e+05	3.0568
34:53	2.267e+05	1.875e+05	1.21	y	4.143e+05	4.4480
34:59	8.105e+05	6.524e+05	1.24	y	1.463e+06	13.933
35:12	1.752e+05	1.383e+05	1.27	y	3.136e+05	3.2142
35:18	5.191e+05	4.025e+05	1.29	y	9.216e+05	9.6842
						1,2,3,4,7,8-HxCDD
						1,2,3,6,7,8-HxCDD
						1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 14 File: 140917D1 S: 11 I: 1 F: 4  
Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 653.22

Unnamed Concentration: 334.478

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:55	1.426e+07	1.374e+07	1.04 y		2.800e+07	334.48
38:44	1.354e+07	1.313e+07	1.03 y		2.668e+07	318.74

Totals class: TCDF EMPC

Entry #: 27

Run: 14 File: 140917D1 S: 11 I: 1 F: 1  
 Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 70.432 Unnamed Concentration: 66.933

RT	ml Resp	m2 Resp RA		Resp Concentration	Name
21:37	5.534e+04	6.305e+04	0.88 y	1.184e+05	0.99829
22:12	1.087e+05	1.426e+05	0.76 y	2.513e+05	2.1193
22:49	3.286e+05	4.284e+05	0.77 y	7.570e+05	6.3828
23:19	4.056e+05	5.113e+05	0.79 y	9.169e+05	7.7310
23:42	2.996e+05	3.804e+05	0.79 y	6.800e+05	5.7337
24:06	2.024e+05	2.454e+05	0.82 y	4.478e+05	3.7759
24:14	1.222e+05	1.555e+05	0.79 y	2.777e+05	2.3417
24:23	1.359e+05	1.692e+05	0.80 y	3.051e+05	2.5728
24:43	6.962e+04	8.121e+04	0.86 y	1.508e+05	1.2718
24:51	1.423e+05	1.844e+05	0.77 y	3.267e+05	2.7546
24:58	2.686e+05	3.411e+05	0.79 y	6.097e+05	5.1405
25:06	3.430e+05	4.457e+05	0.77 y	7.888e+05	6.6509
25:30	1.964e+05	2.364e+05	0.83 y	4.328e+05	3.6496
25:44	1.024e+05	1.345e+05	0.76 y	2.369e+05	1.9971
25:54	1.349e+05	1.667e+05	0.81 y	3.016e+05	2.5434
26:06	9.415e+04	1.266e+05	0.74 y	2.208e+05	1.8615
26:11	8.508e+04	1.089e+05	0.78 y	1.940e+05	1.6356
26:17	1.830e+05	2.319e+05	0.79 y	4.150e+05	3.4988
26:37	3.384e+05	4.434e+05	0.76 y	7.817e+05	6.5913
26:50	1.782e+04	2.033e+04	0.88 y	3.815e+04	0.32170
27:04	1.264e+04	1.687e+04	0.75 y	2.951e+04	0.24882
28:02	3.378e+04	3.863e+04	0.87 y	7.241e+04	0.61051

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC            Entry #: 29

Run: 14            File: 140917D1            S: 11 I: 1 F: 1  
Acquired: 17-SEP-14 21:15:00    Processed: 18-SEP-14 09:39:53

Total Concentration: 24.165            Unnamed Concentration: 24.165

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:02	2.142e+06	1.395e+06	1.54 y	3.537e+06	24.165

Totals class: PeCDF EMPC

Entry #: 31

Run: 14 File: 140917D1 S: 11 I: 1 F: 2  
 Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 50.420

Unnamed Concentration: 44.528

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:19	4.652e+05	3.018e+05	1.54	y	7.670e+05	5.2401
29:27	1.717e+06	1.095e+06	1.57	y	2.812e+06	19.212
29:47	6.902e+04	4.343e+04	1.59	y	1.124e+05	0.76825
29:59	7.278e+05	4.445e+05	1.64	y	1.172e+06	8.0087
30:11	1.143e+05	7.800e+04	1.47	y	1.923e+05	1.3137
30:22	2.136e+05	1.321e+05	1.62	y	3.458e+05	2.2896
30:35	3.575e+05	2.155e+05	1.66	y	5.731e+05	3.9152
30:43	2.264e+04	1.577e+04	1.44	y	3.841e+04	0.26242
31:03	2.763e+04	1.722e+04	1.60	y	4.485e+04	0.30641
31:09	2.809e+05	1.794e+05	1.57	y	4.603e+05	3.1447
31:14	3.036e+05	2.074e+05	1.46	y	5.110e+05	3.6025
31:17	1.637e+05	1.004e+05	1.63	y	2.641e+05	1.8041
31:32	2.276e+04	1.793e+04	1.27	n	3.744e+04	0.25576
32:07	2.519e+04	1.819e+04	1.38	y	4.338e+04	0.29639

Totals class: HxCDF EMPC

Entry #: 33

Run: 14 File: 140917D1 S: 11 I: 1 F: 3  
Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 90.428 Unnamed Concentration: 73.031

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
32:46	8.640e+05	6.658e+05	1.30	y	1.530e+06	10.588
32:56	3.004e+06	2.358e+06	1.27	y	5.362e+06	37.112
33:08	5.421e+04	4.686e+04	1.16	y	1.011e+05	0.69947
33:18	9.551e+04	8.126e+04	1.18	y	1.768e+05	1.2234
33:29	1.480e+06	1.150e+06	1.29	y	2.629e+06	18.197
33:52	2.627e+05	2.041e+05	1.29	y	4.668e+05	3.2307
33:58	5.278e+05	4.101e+05	1.29	y	9.380e+05	5.7061 1,2,3,4,7,8-HxCDF
34:06	4.175e+05	3.234e+05	1.29	y	7.409e+05	5.0096 1,2,3,6,7,8-HxCDF
34:24	4.119e+04	3.462e+04	1.19	y	7.581e+04	0.52469
34:31	4.669e+04	3.338e+04	1.40	y	8.008e+04	0.55421
34:43	5.024e+05	3.854e+05	1.30	y	8.878e+05	6.2300 2,3,4,6,7,8-HxCDF
35:40	3.038e+04	2.590e+04	1.17	y	5.628e+04	0.45110 1,2,3,7,8,9-HxCDF
35:44	7.308e+04	5.724e+04	1.28	y	1.303e+05	0.90195



Totals class: HpCDF EMPC

Entry #: 35

Run: 14 File: 140917D1 S: 11 I: 1 F: 4

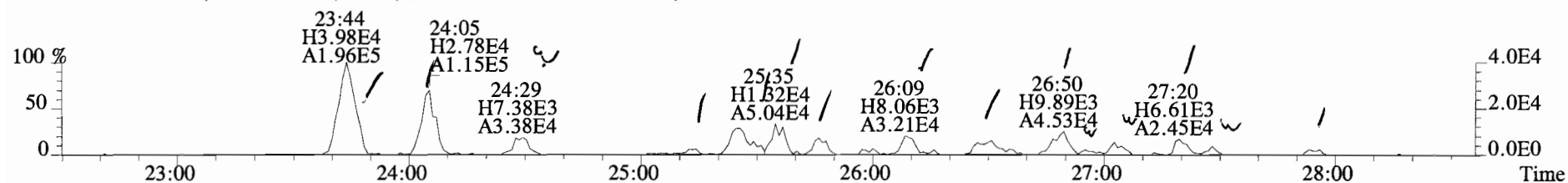
Acquired: 17-SEP-14 21:15:00 Processed: 18-SEP-14 09:39:53

Total Concentration: 142.99

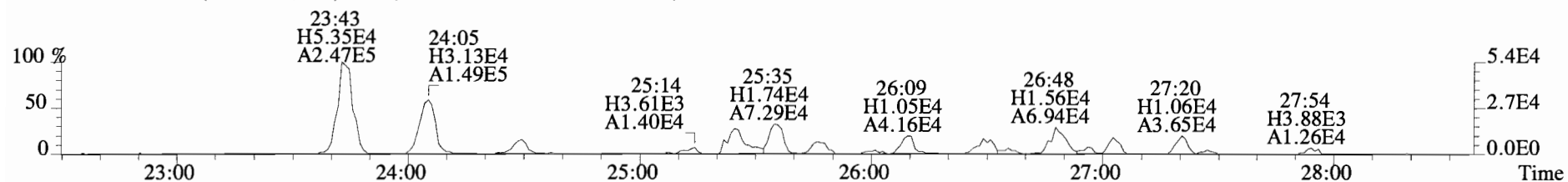
Unnamed Concentration: 69.797

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:34	4.931e+06	4.575e+06	1.08 y	9.505e+06	68.220	1,2,3,4,6,7,8-HpCDF
37:55	1.892e+05	1.722e+05	1.10 y	3.614e+05	2.7274	
38:06	4.562e+06	4.325e+06	1.05 y	8.887e+06	67.070	
39:17	3.359e+05	2.886e+05	1.16 y	6.245e+05	4.9737	1,2,3,4,7,8,9-HpCDF

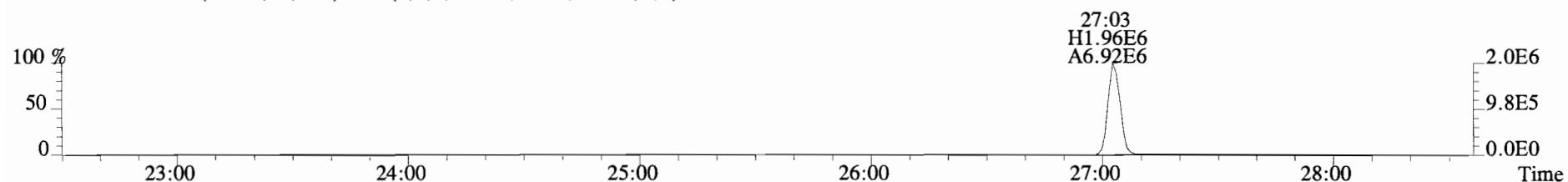
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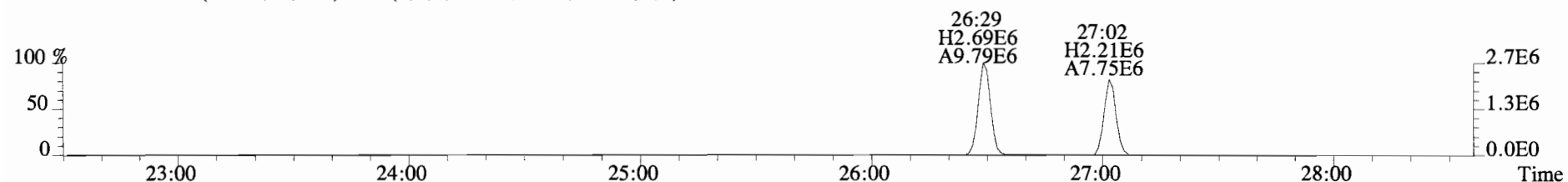
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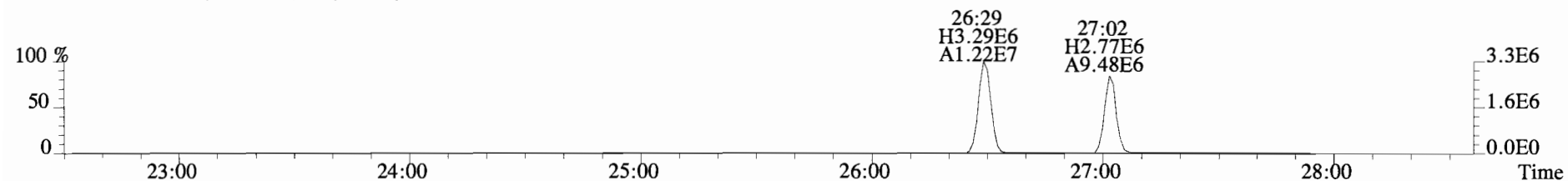
327.8847 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



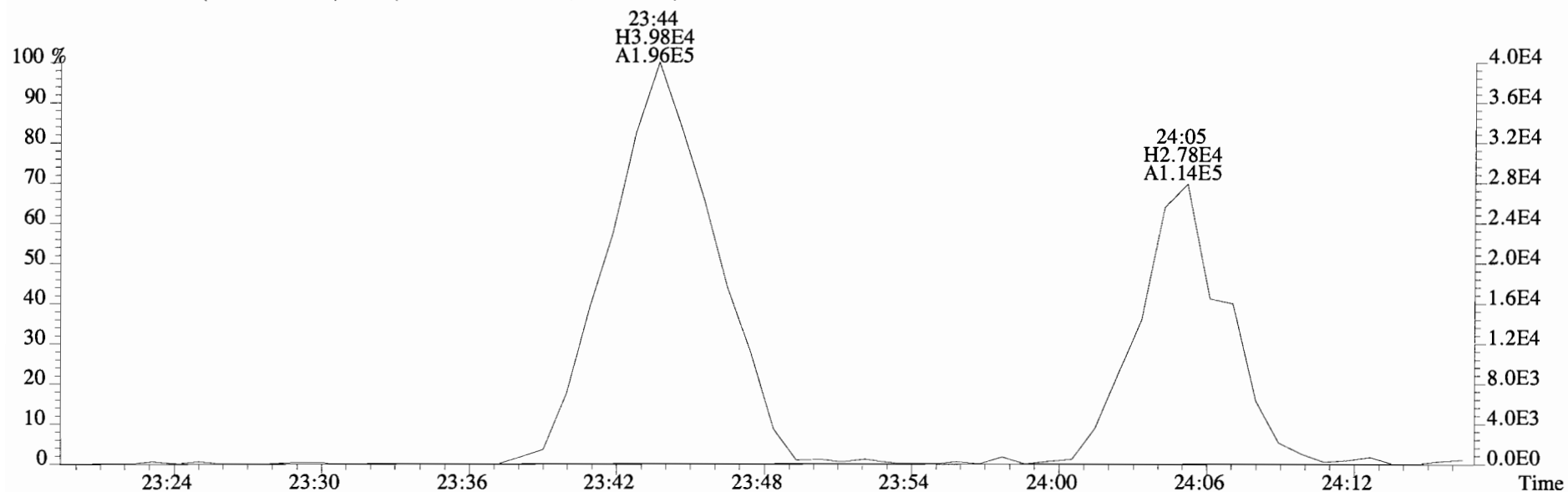
331.9368 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



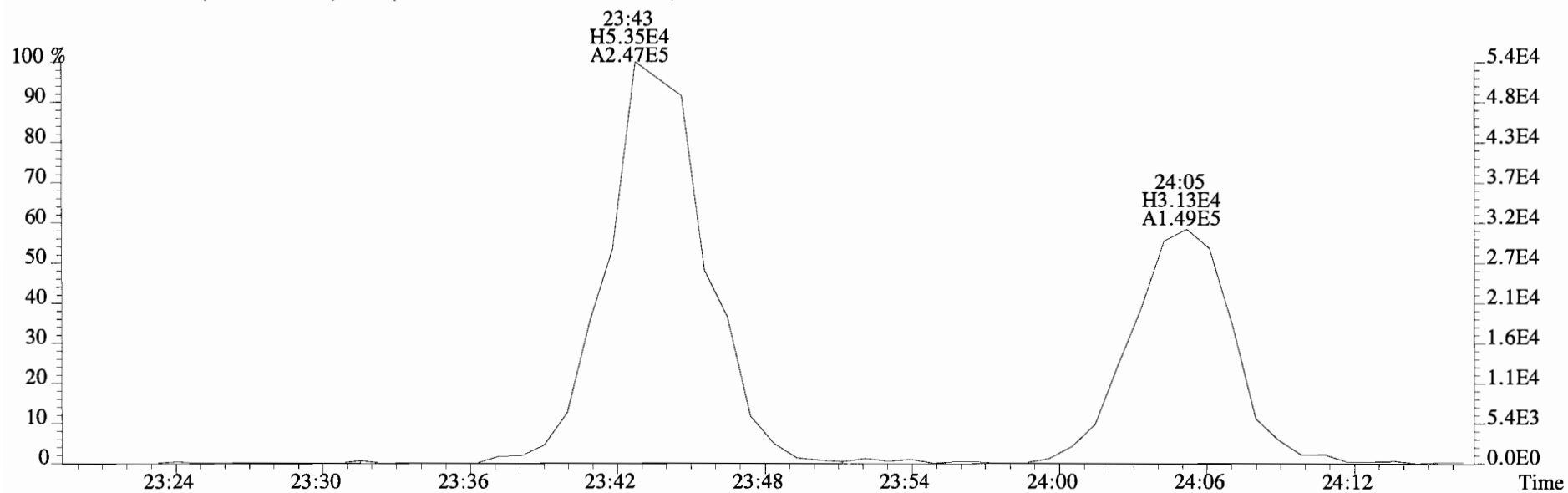
333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



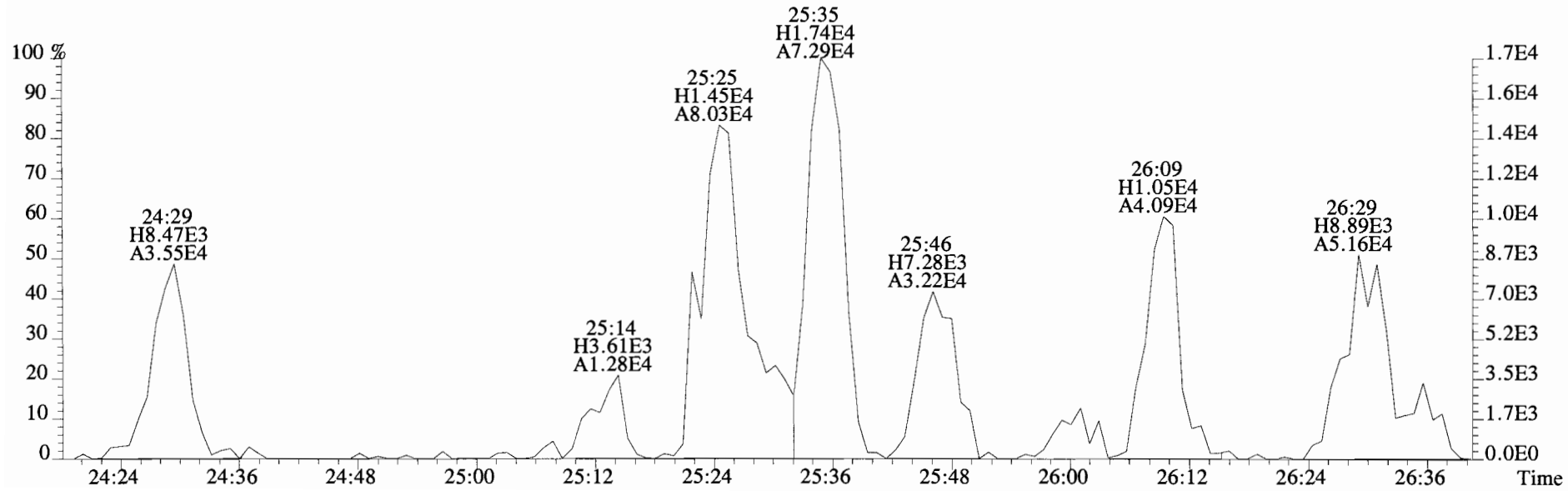
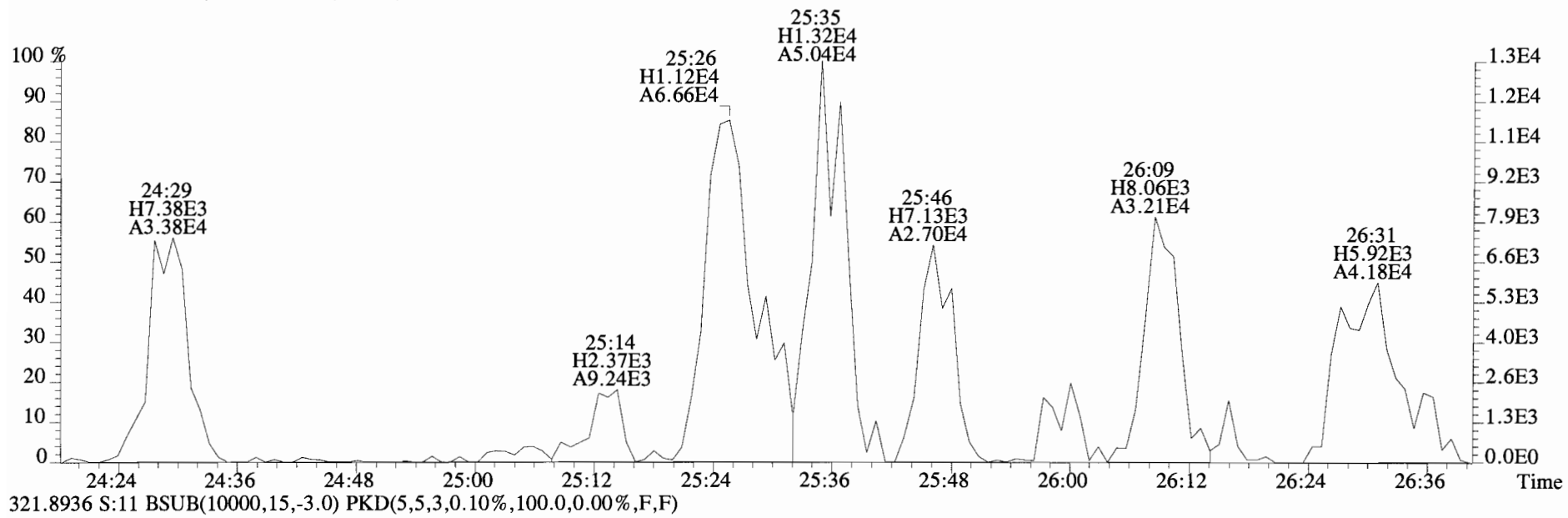
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Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



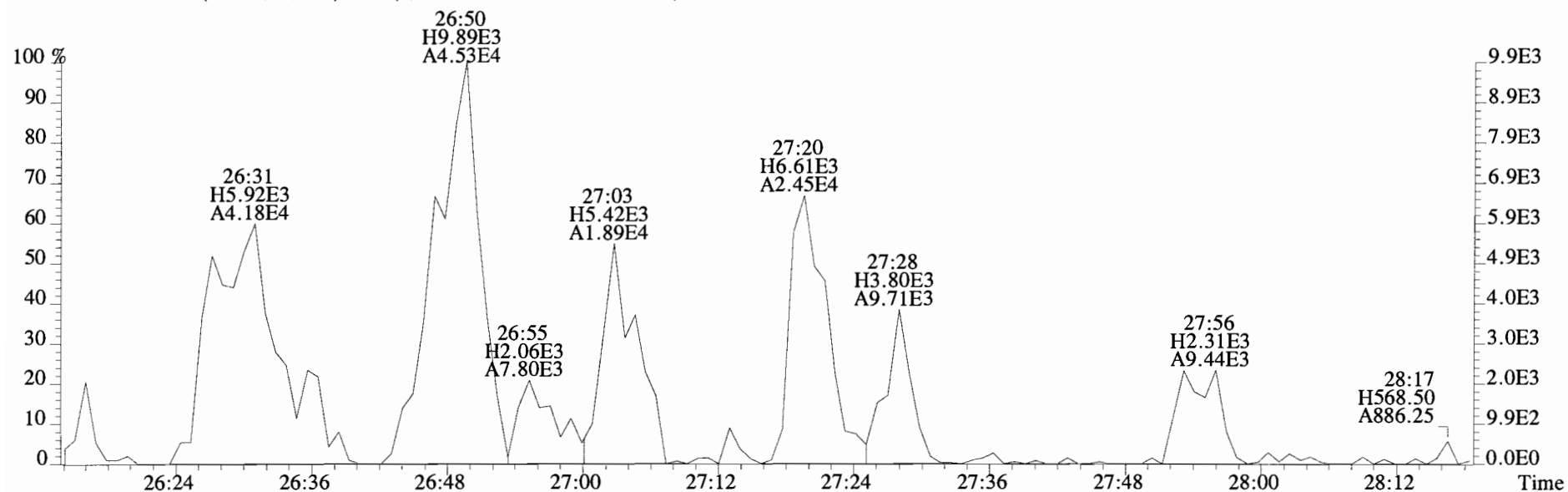
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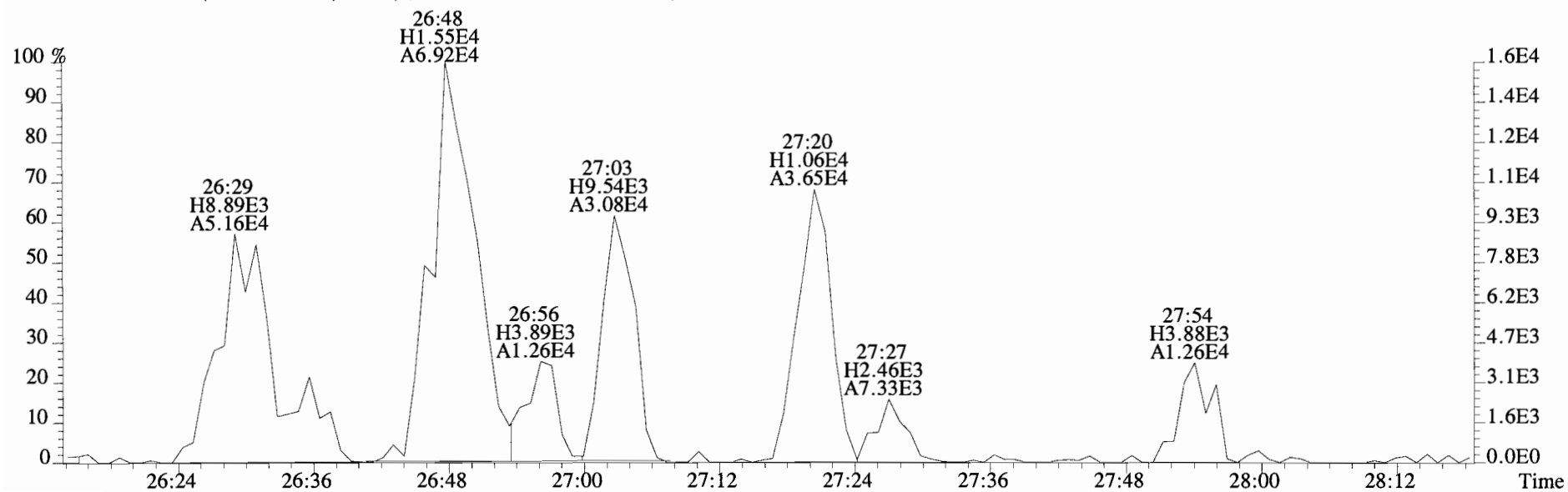
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Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
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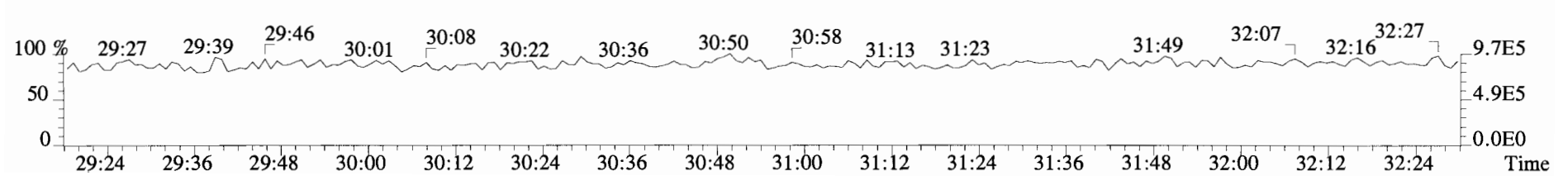
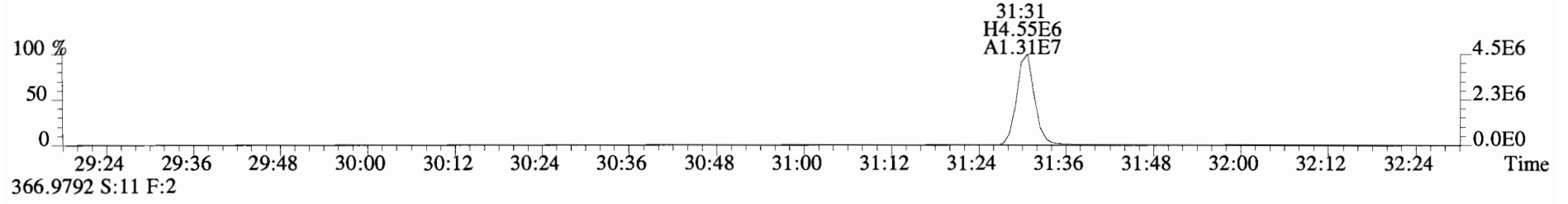
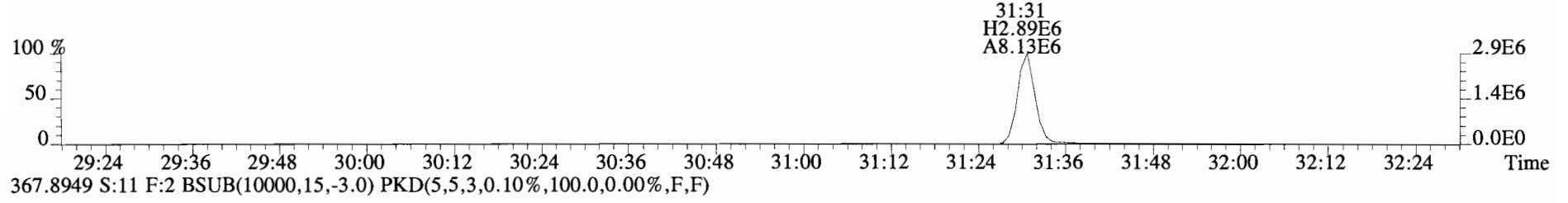
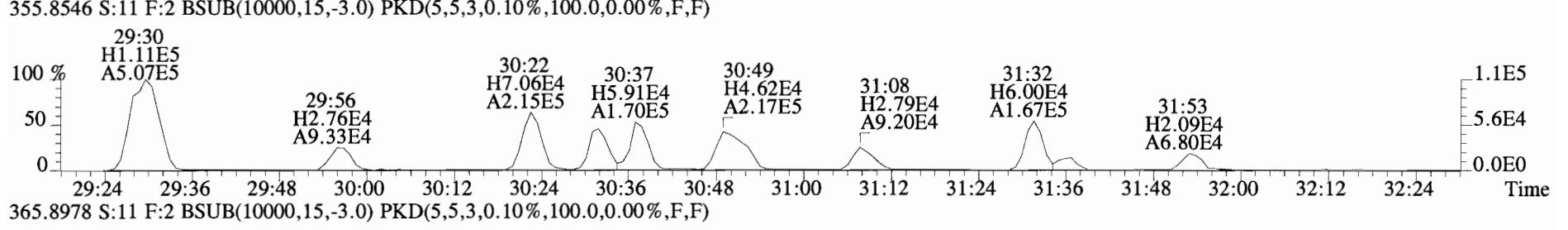
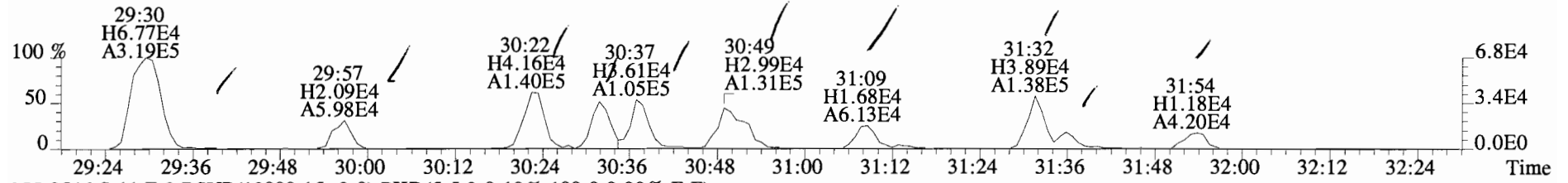
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 Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
 319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



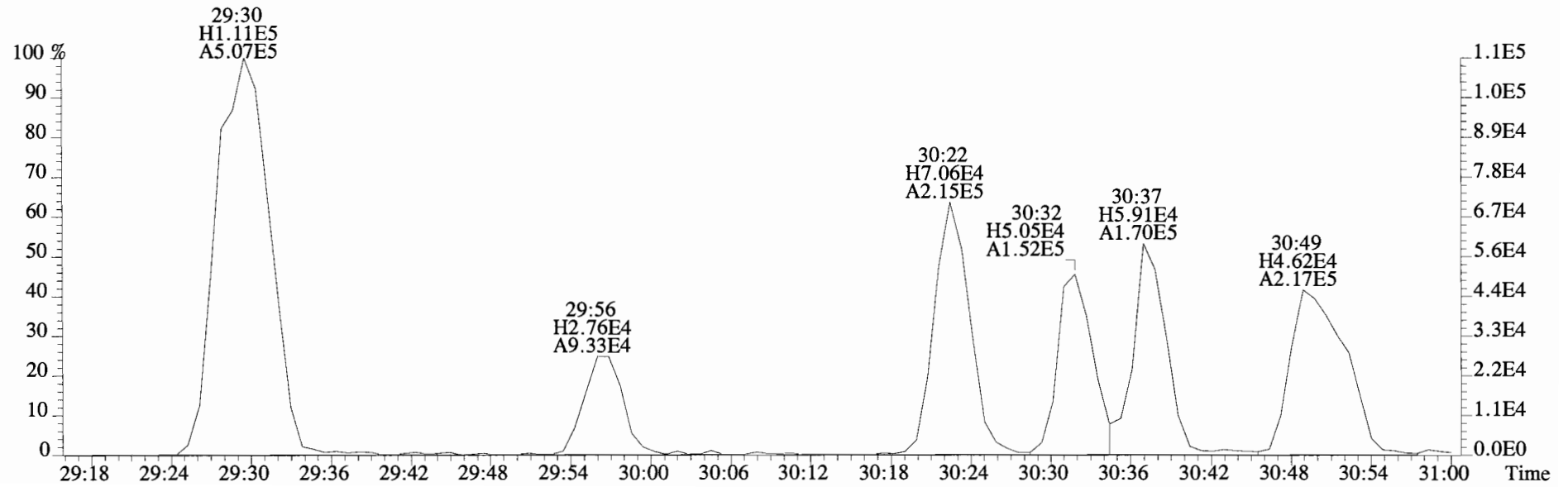
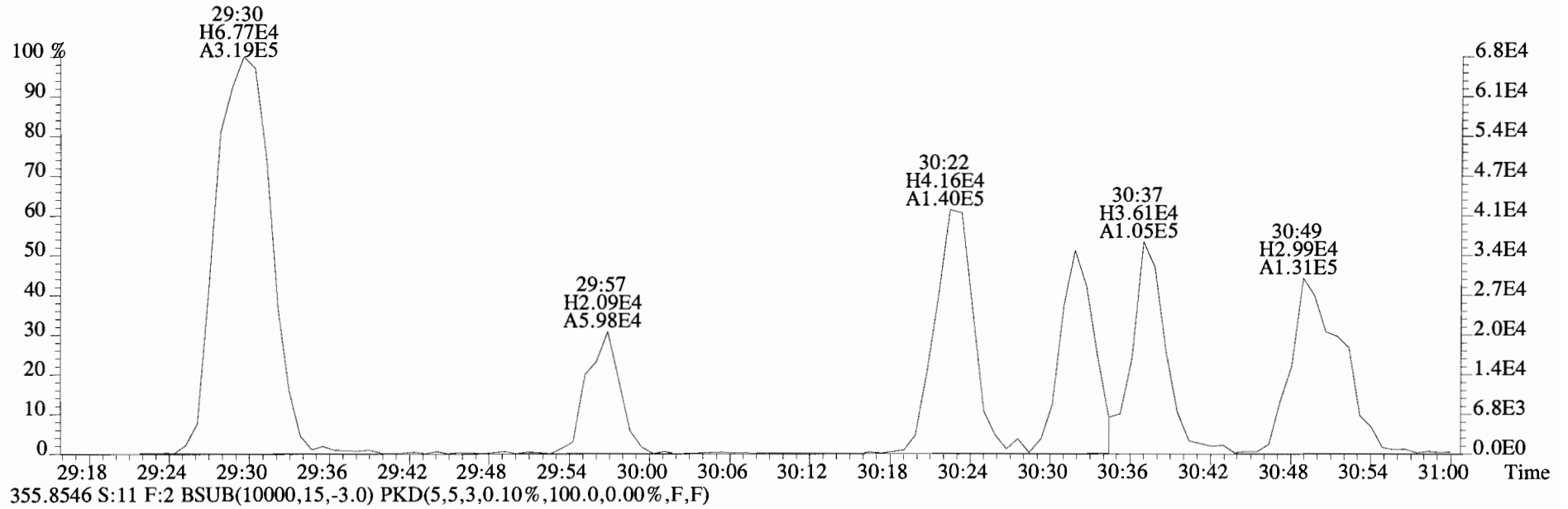
321.8936 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



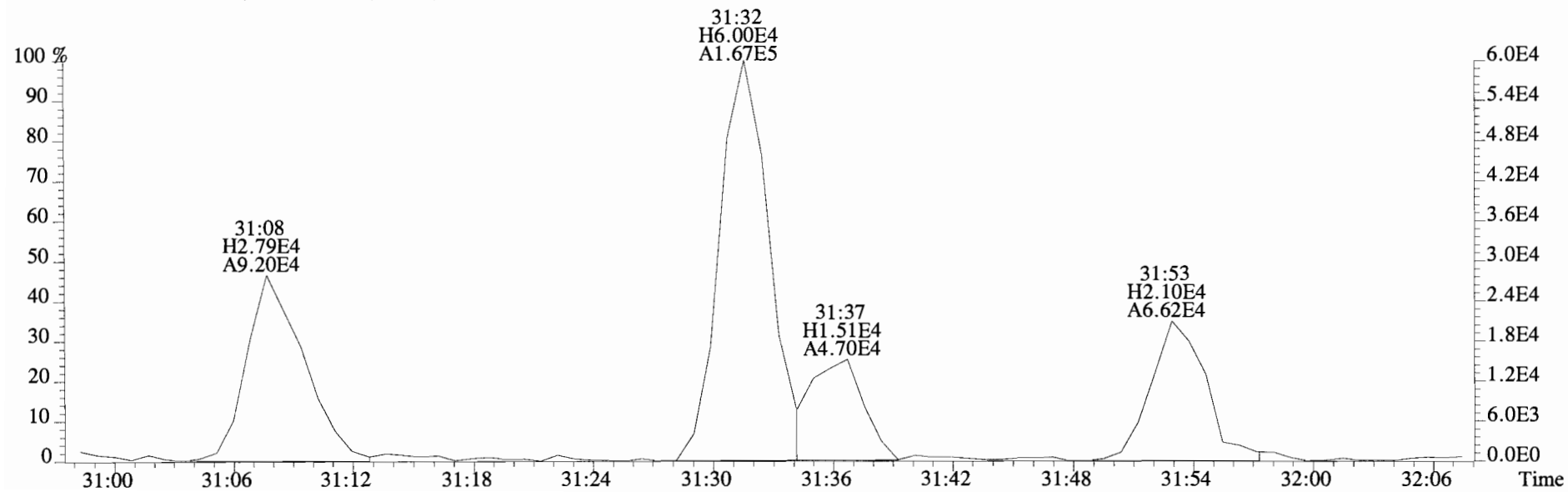
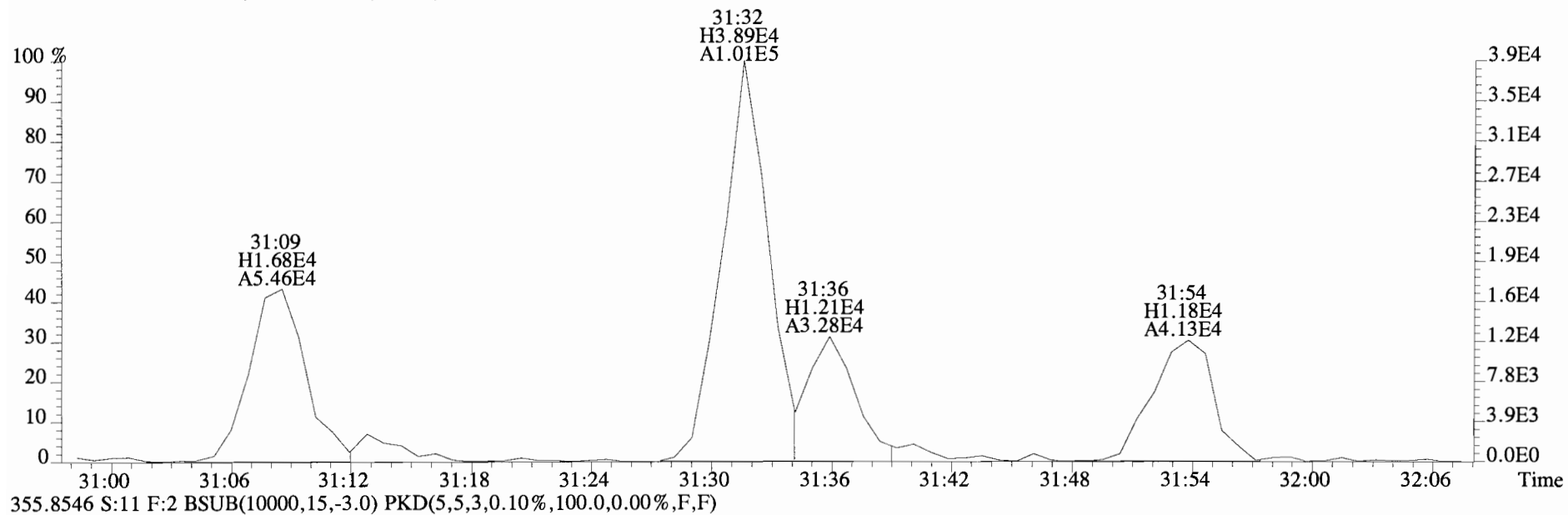
File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
353.8576 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 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)

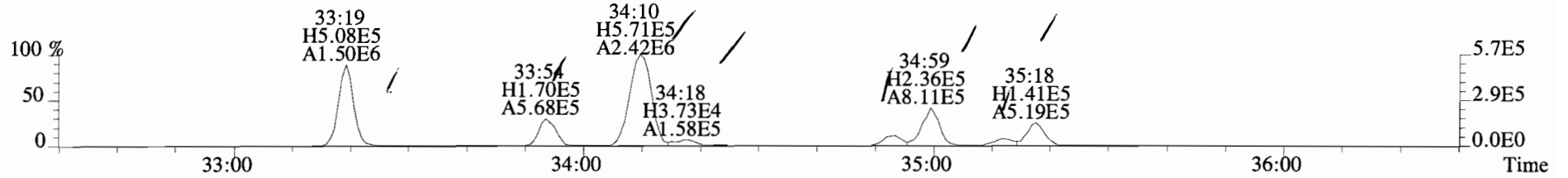


File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
353.8576 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

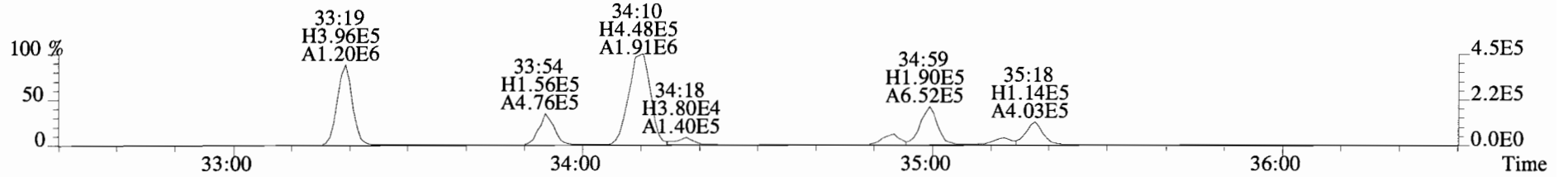




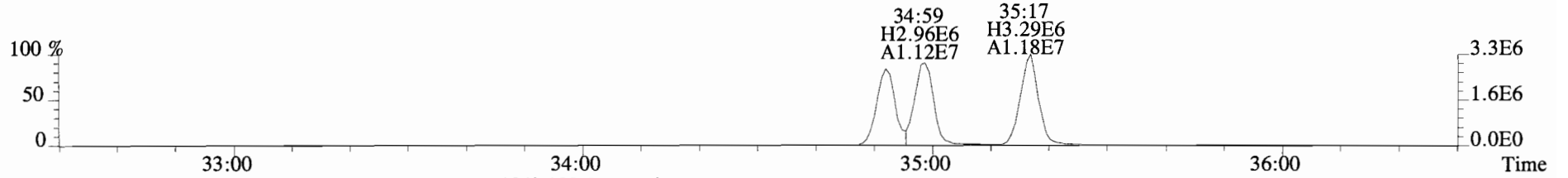
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



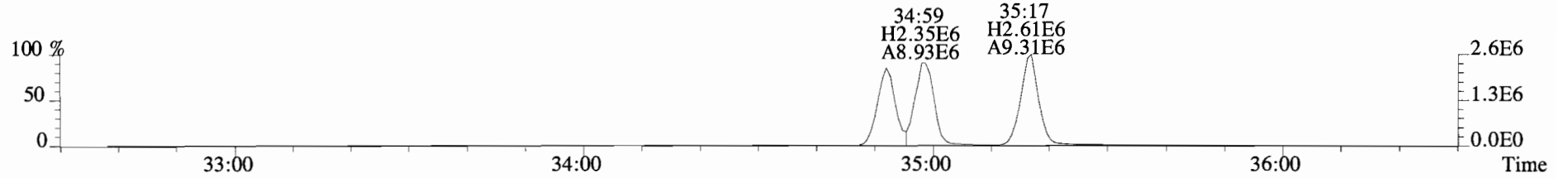
391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



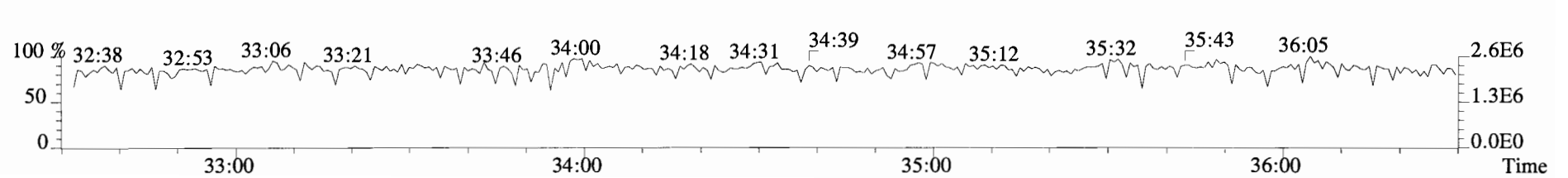
401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



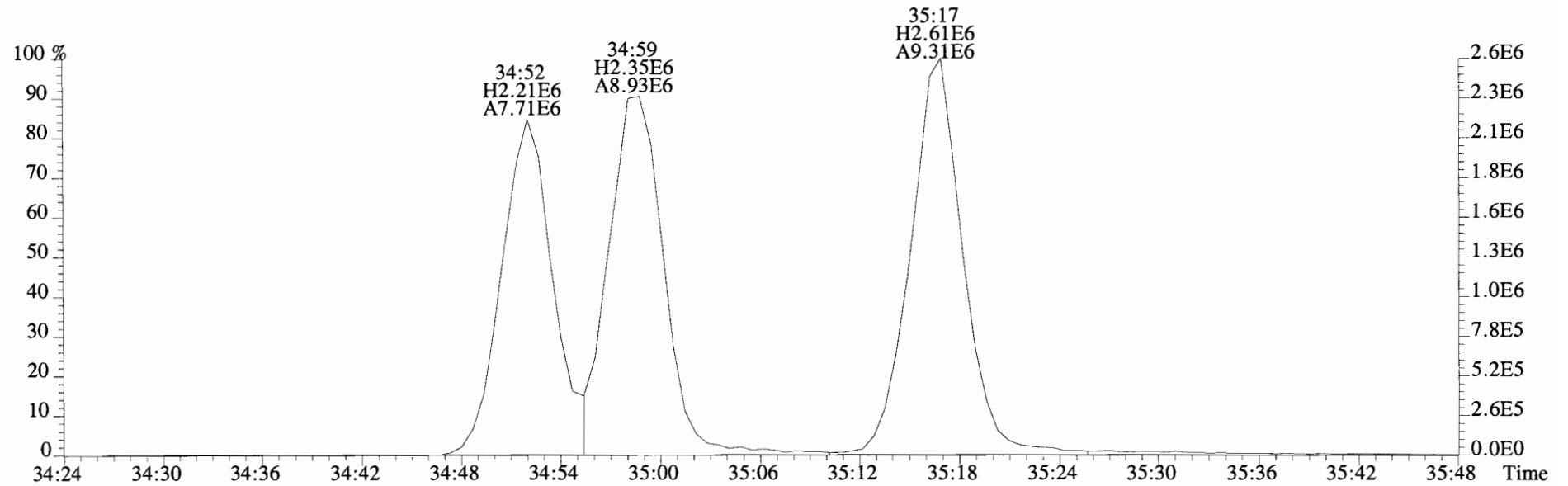
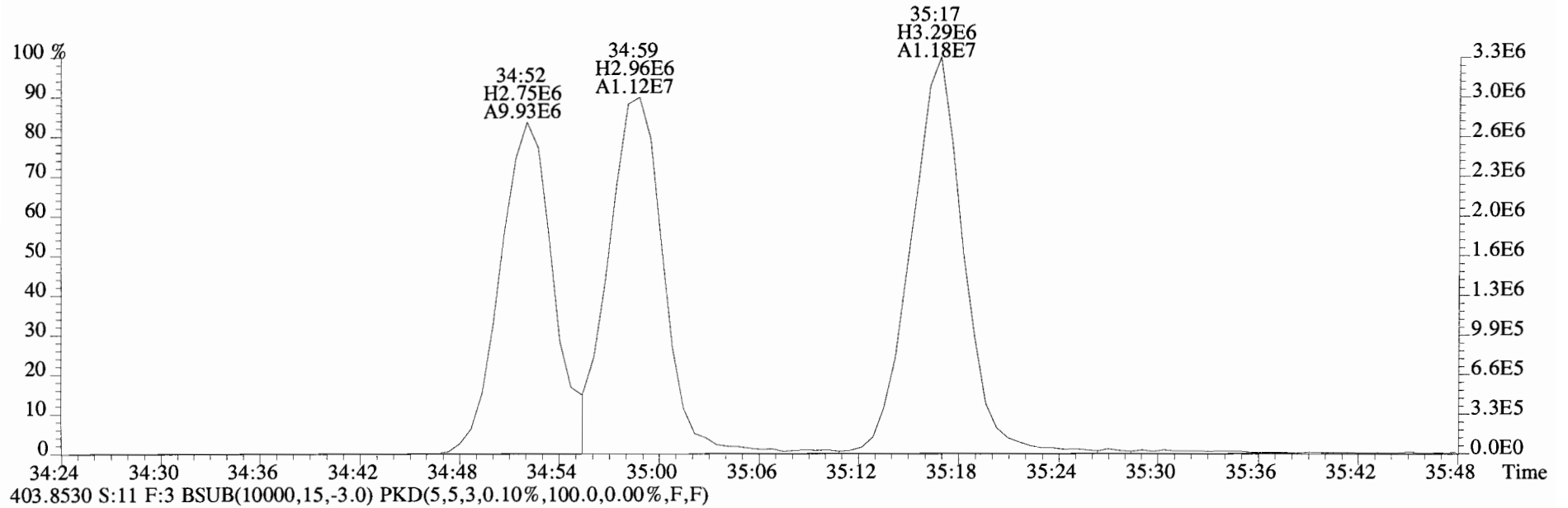
403.8530 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



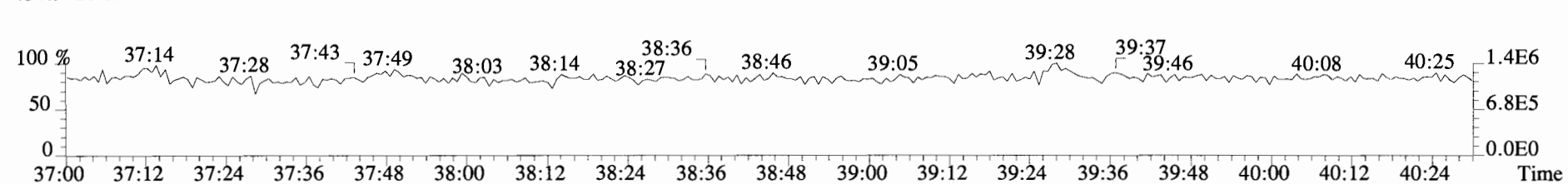
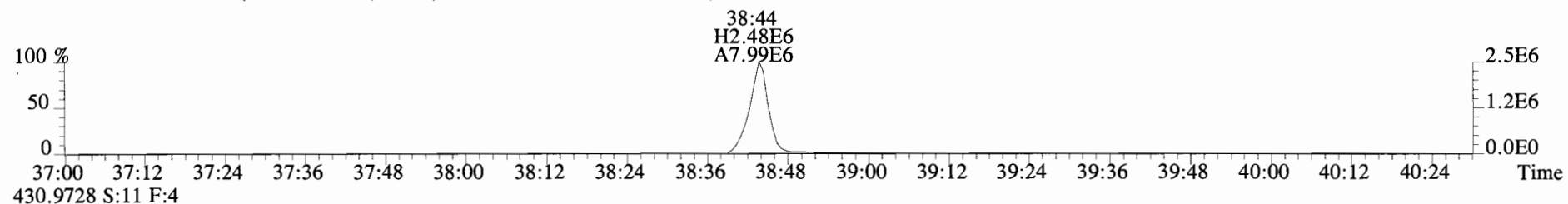
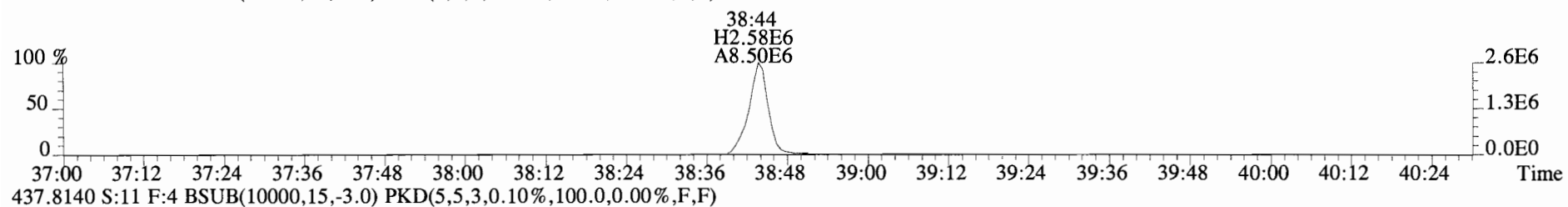
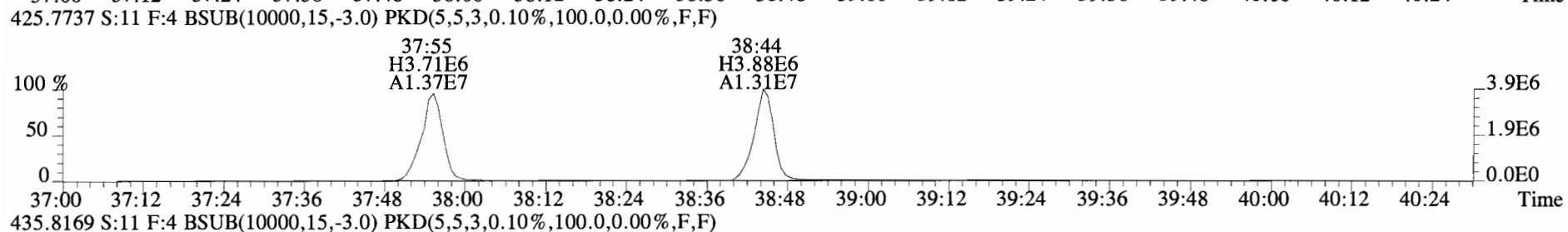
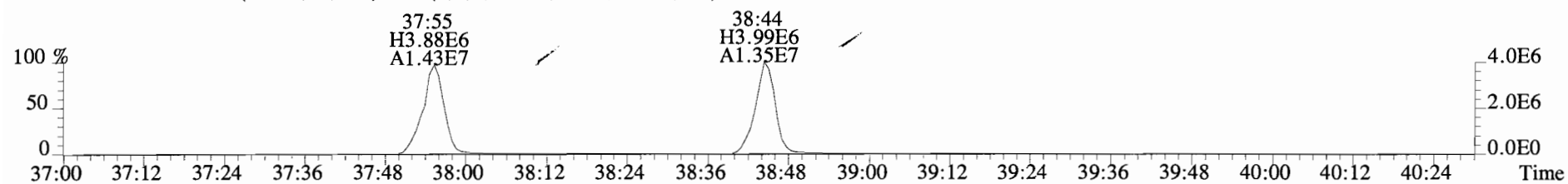
380.9760 S:11 F:3



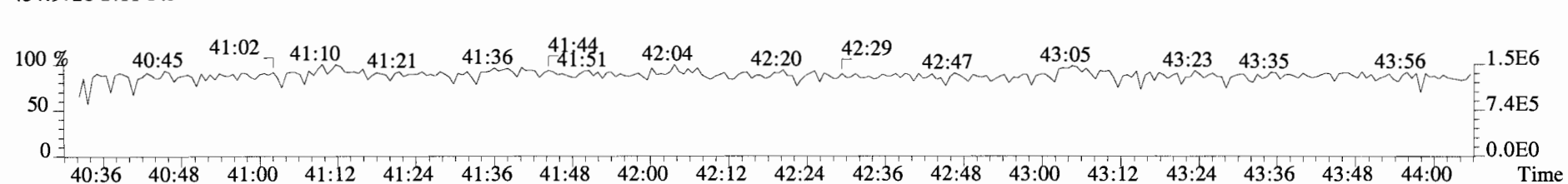
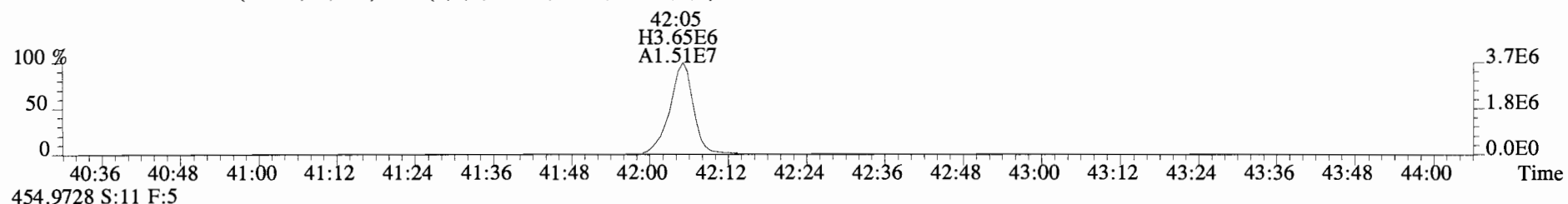
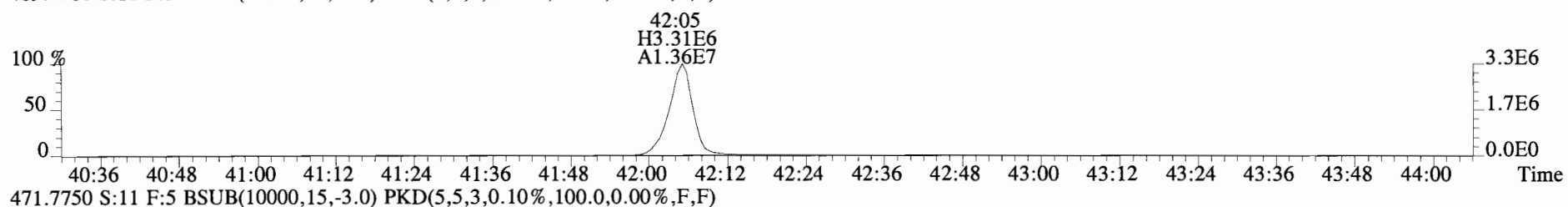
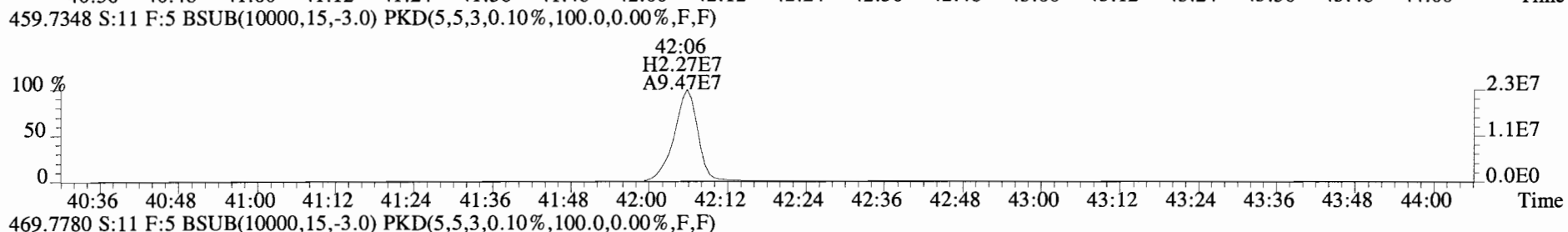
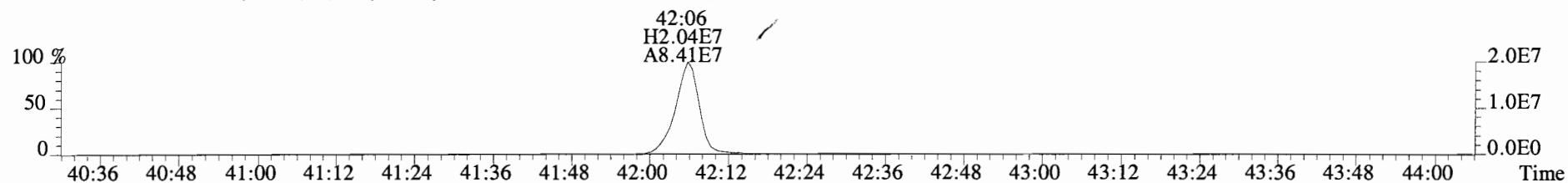
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



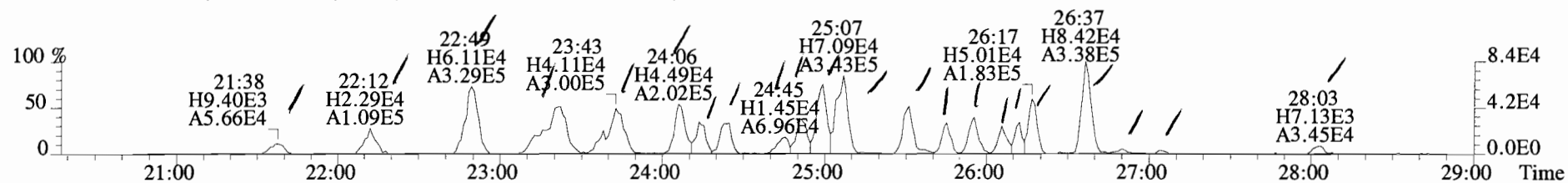
File:140917D1 #1-326 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



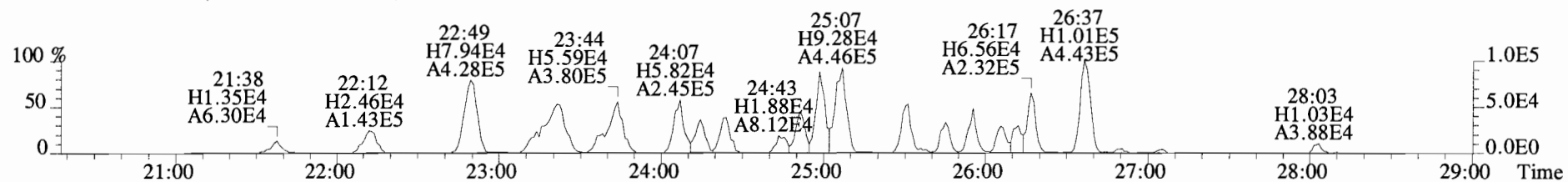
File:140917D1 #1-388 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



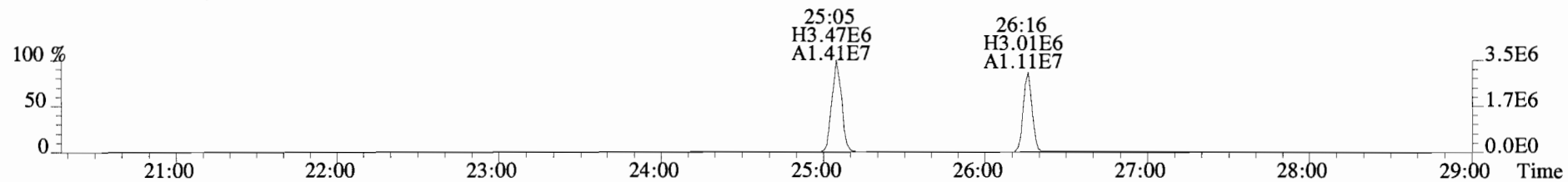
File:140917D1 #1-551 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
303.9016 S:11 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



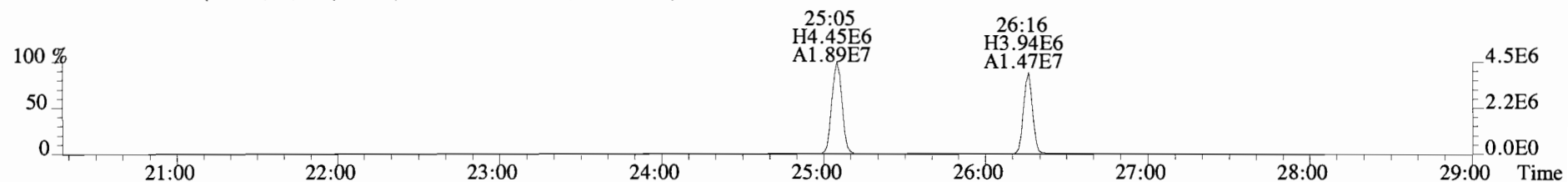
305.8987 S:11 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



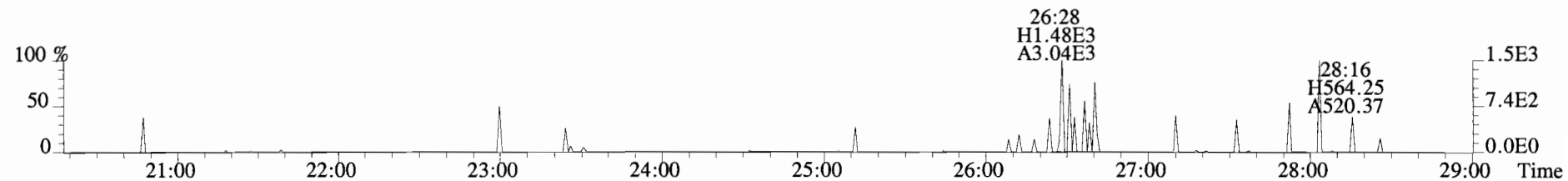
315.9419 S:11 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



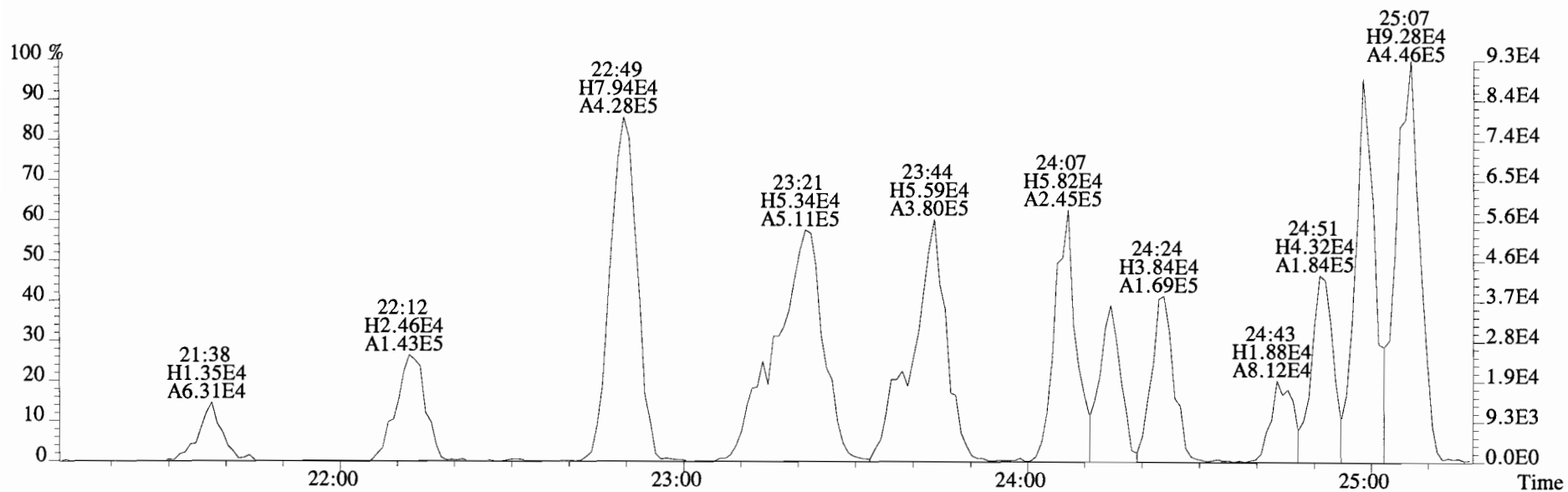
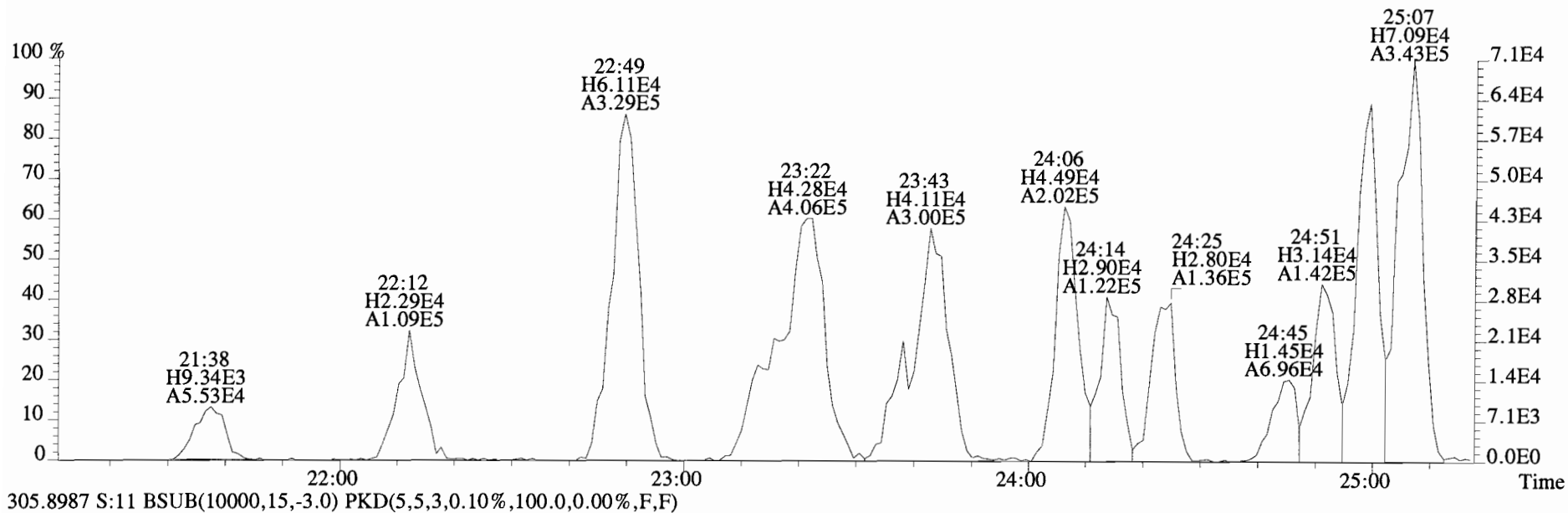
317.9389 S:11 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



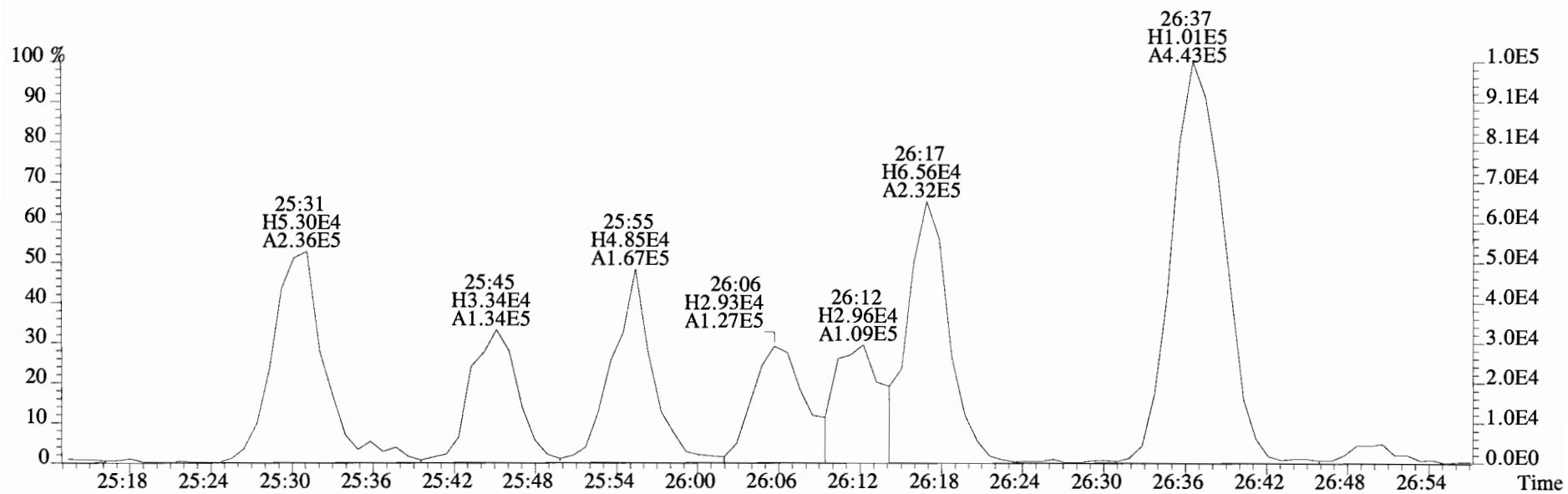
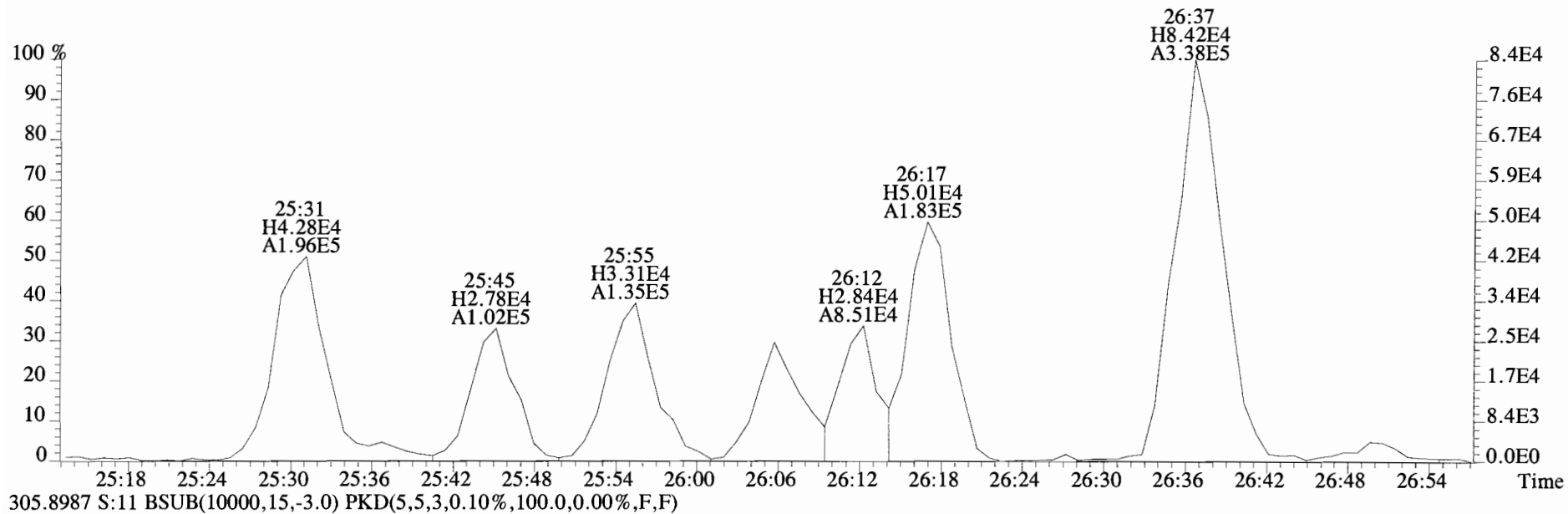
375.8364 S:11 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



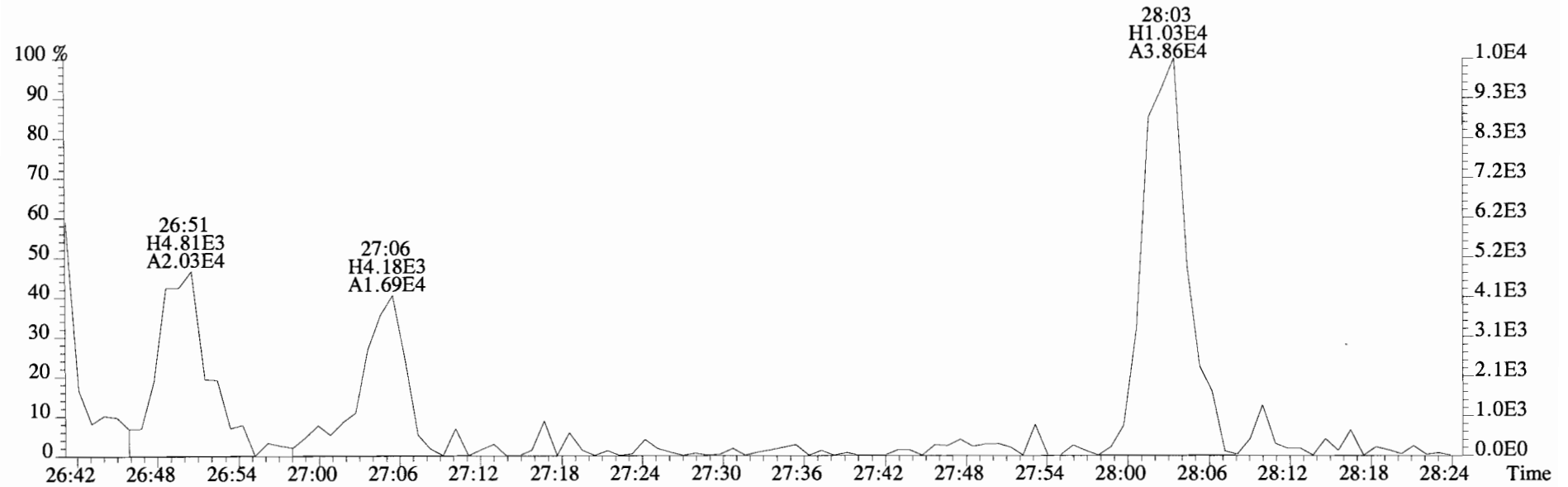
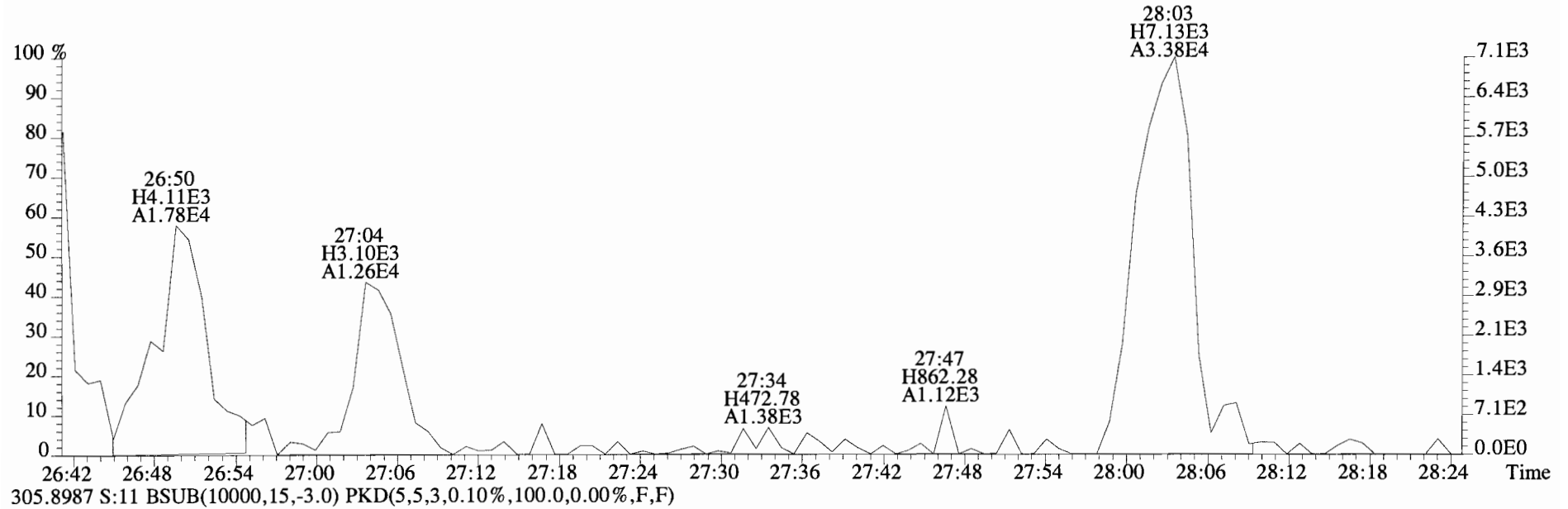
File:140917D1 #1-551 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
303.9016 S:11 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140917D1 #1-551 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
 303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

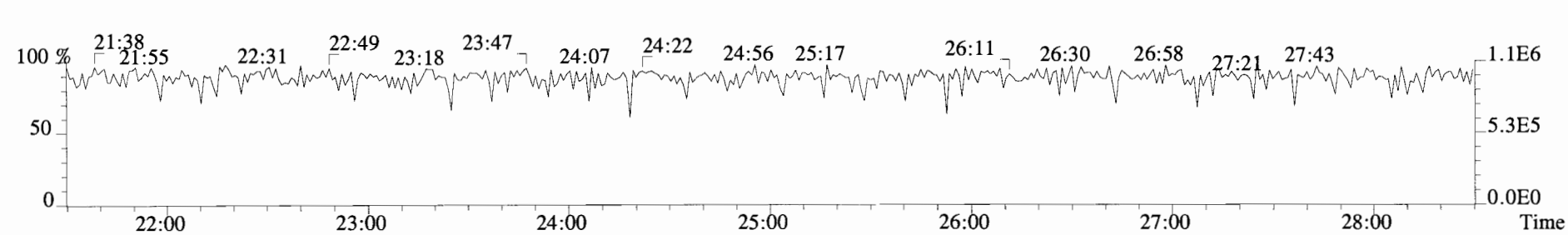
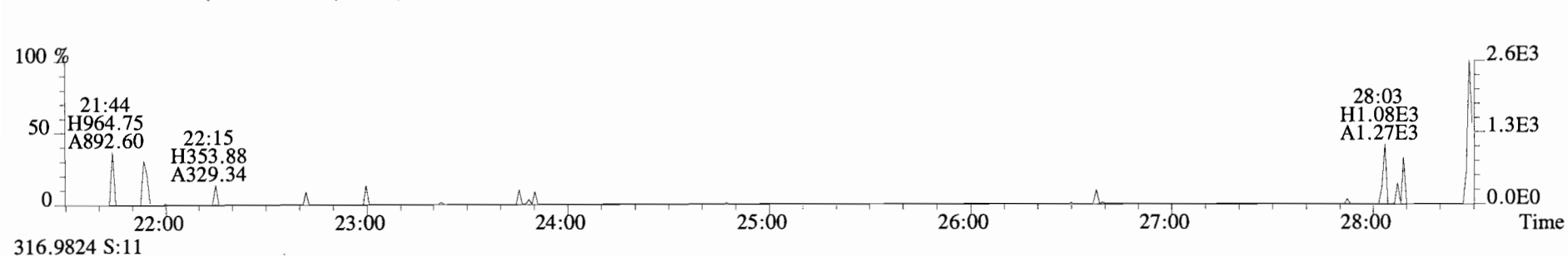
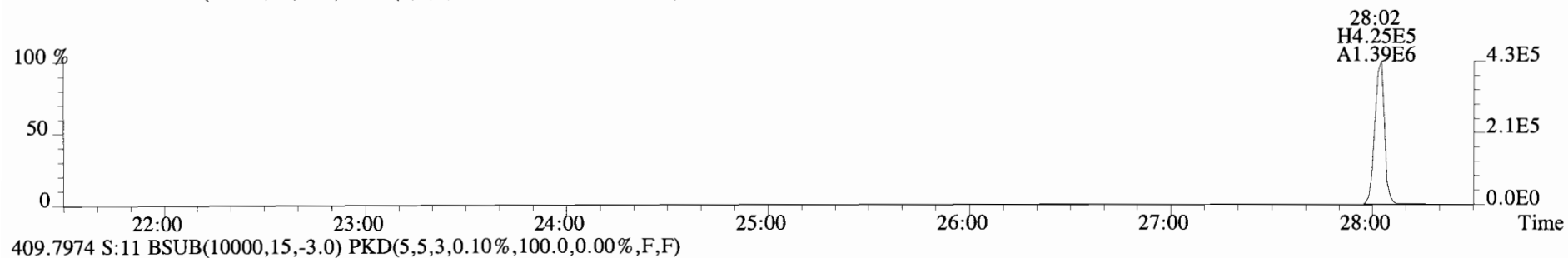
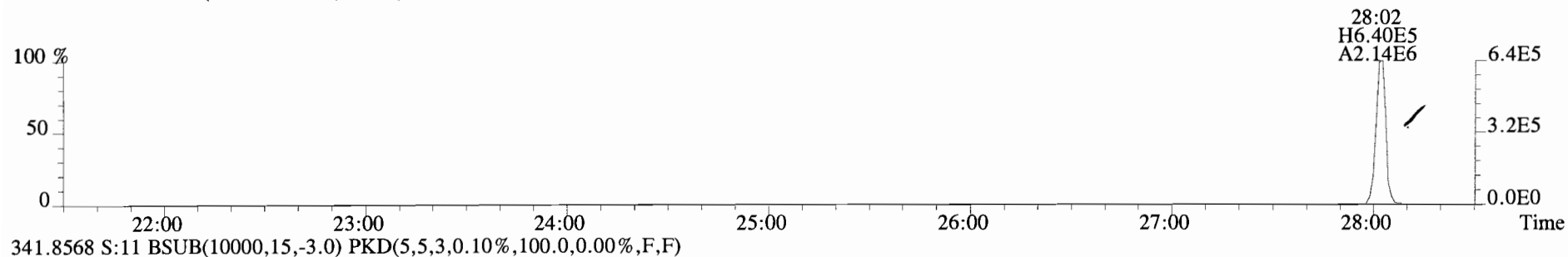


File:140917D1 #1-551 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

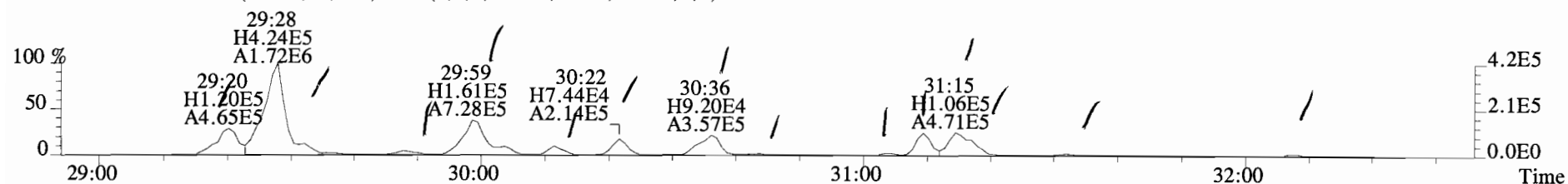




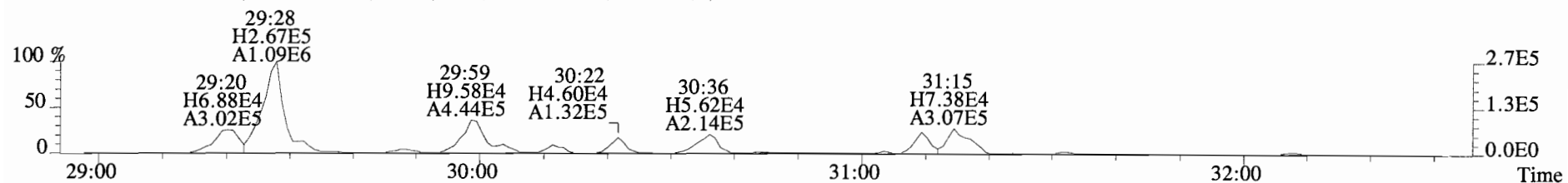
File:140917D1 #1-551 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



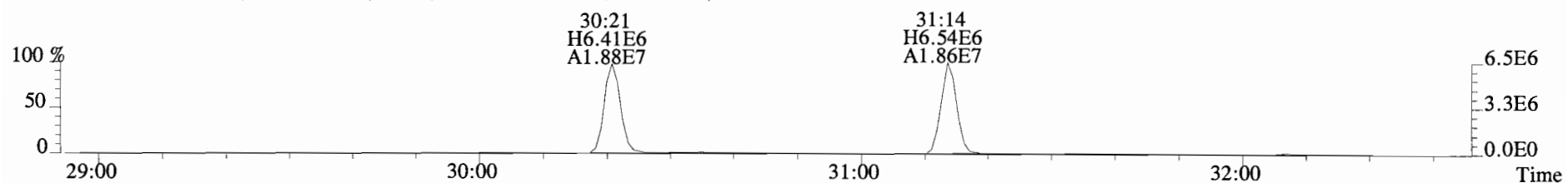
File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



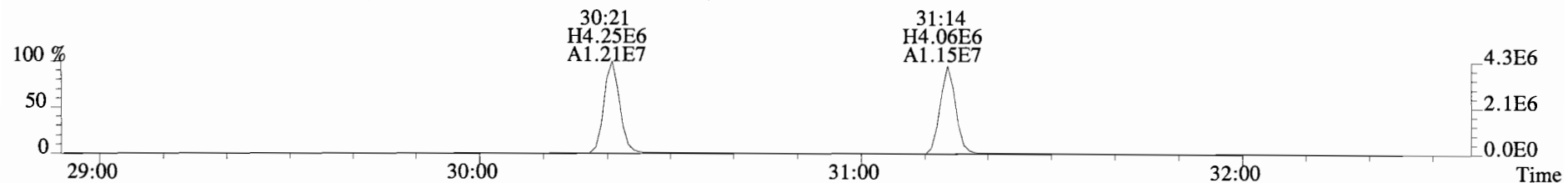
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



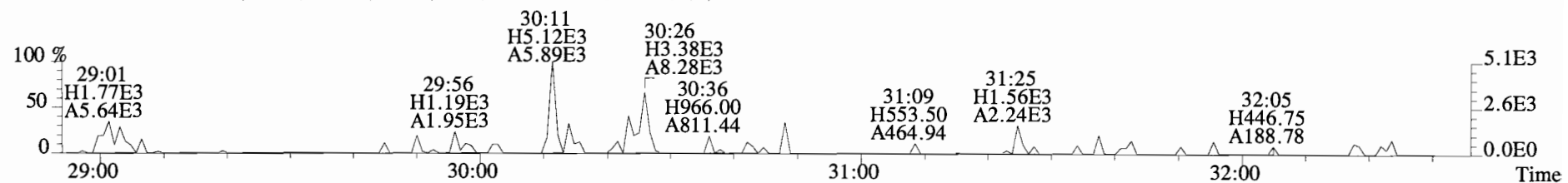
351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



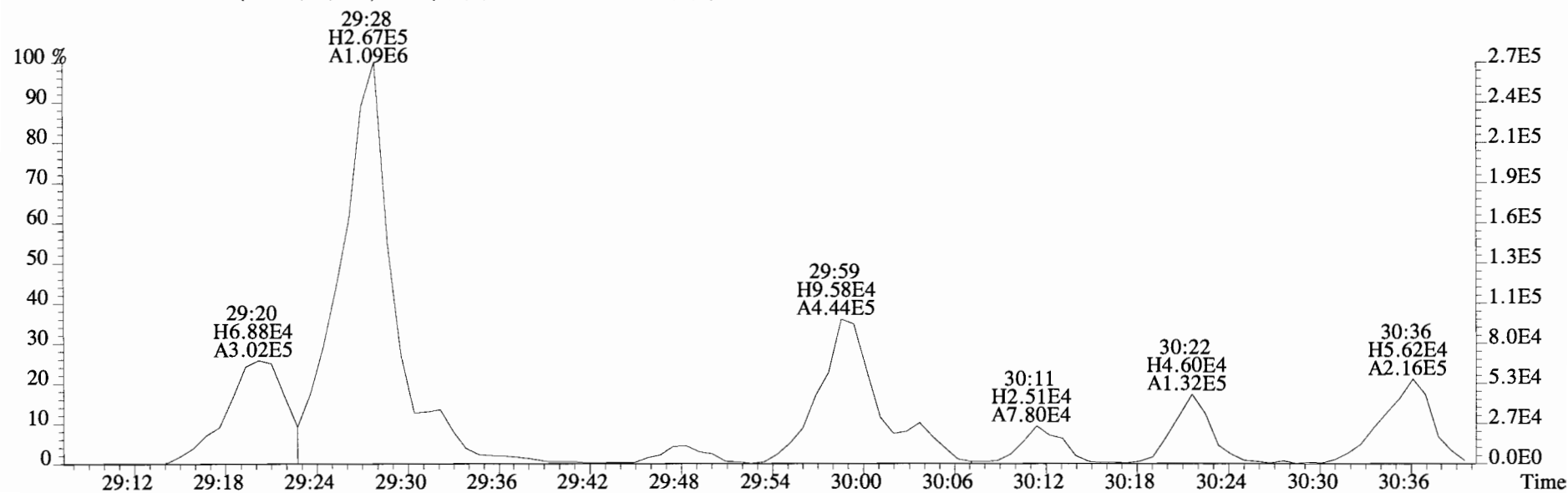
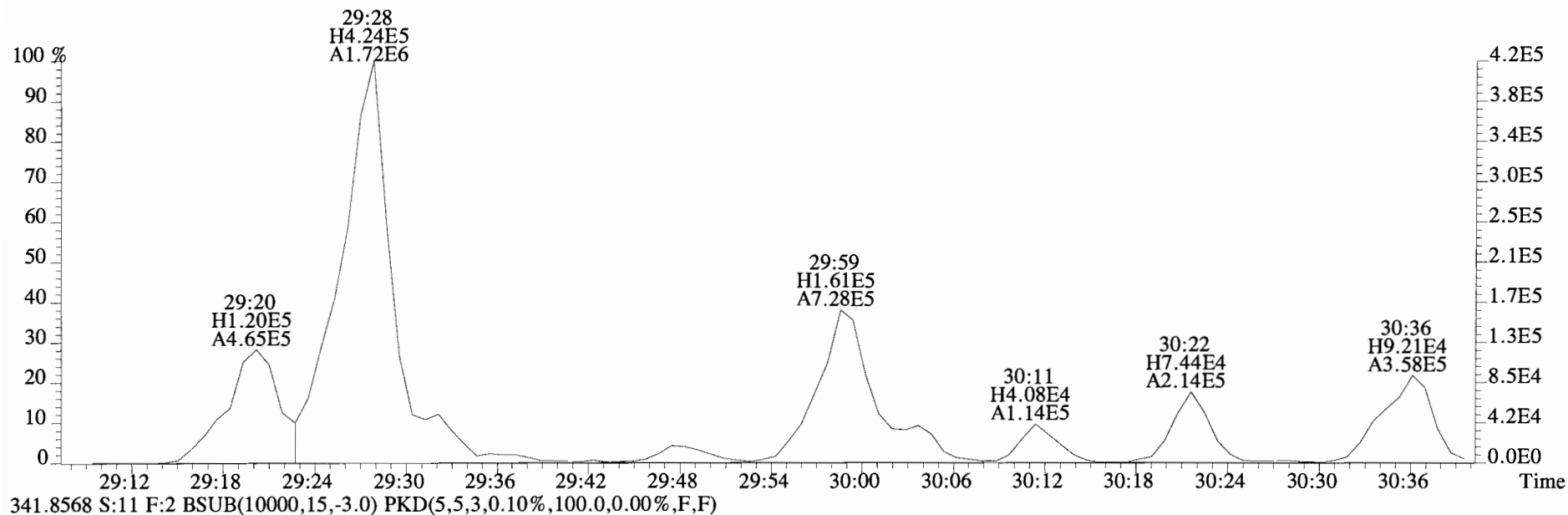
353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



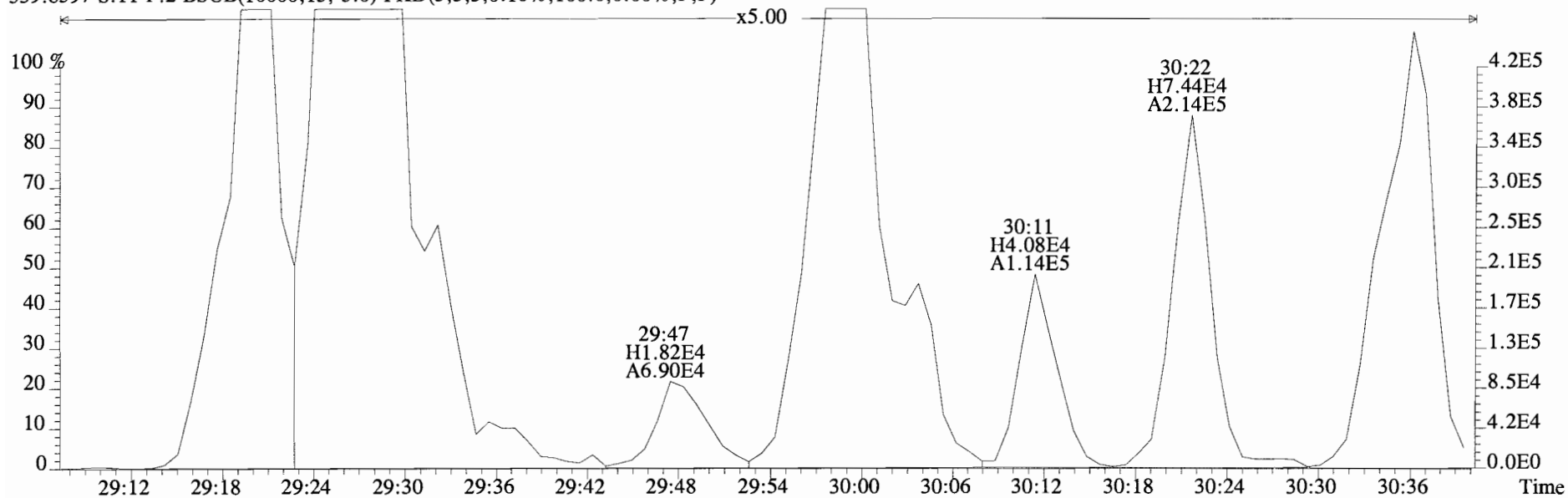
409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



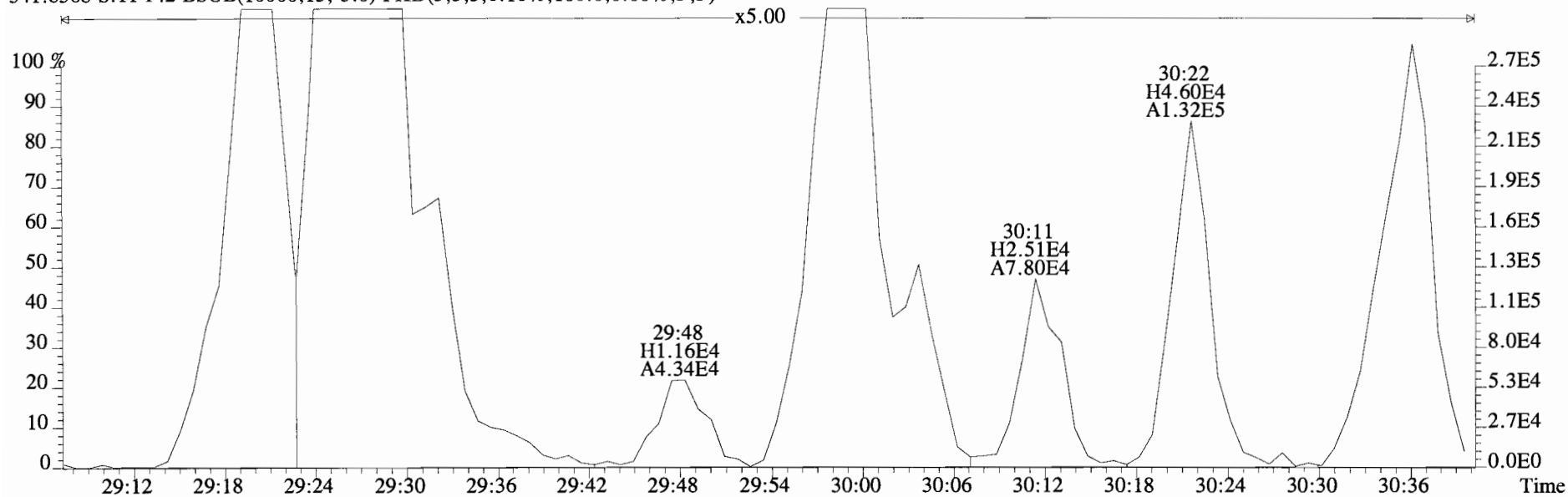
File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



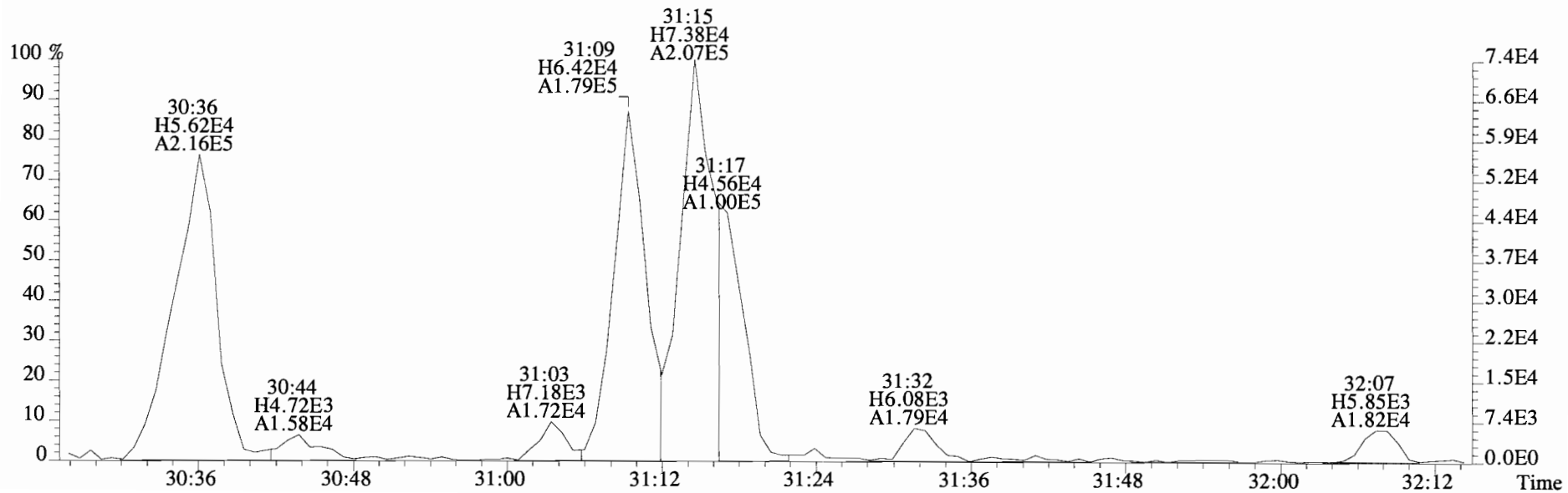
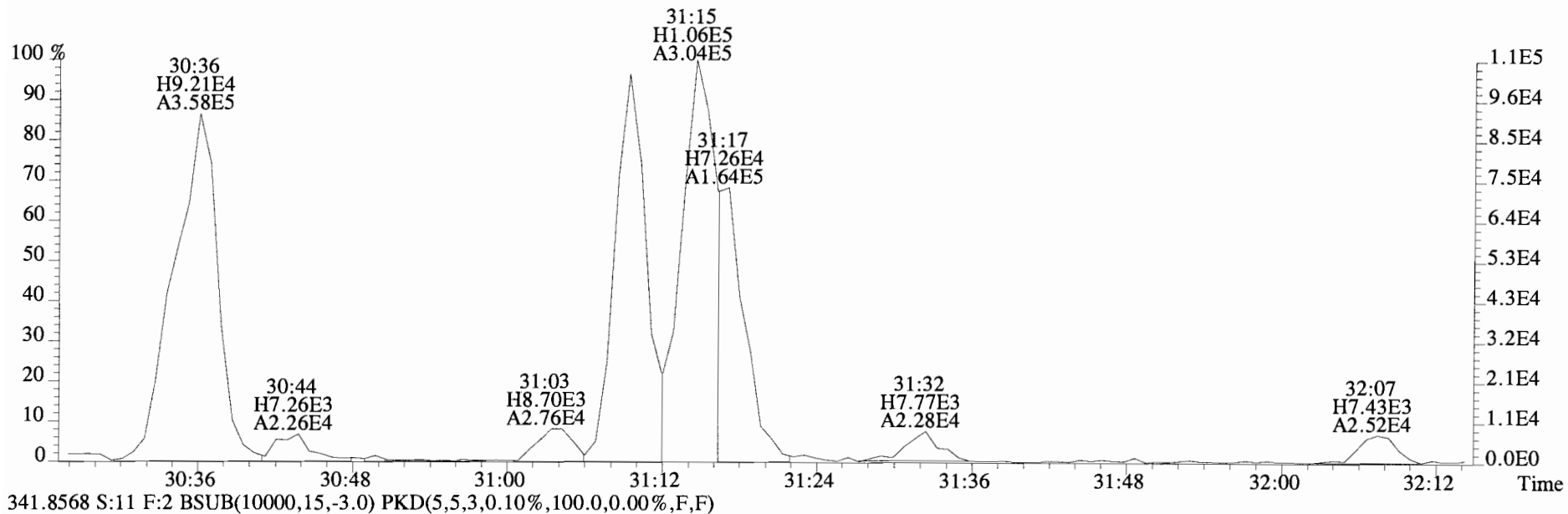
File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



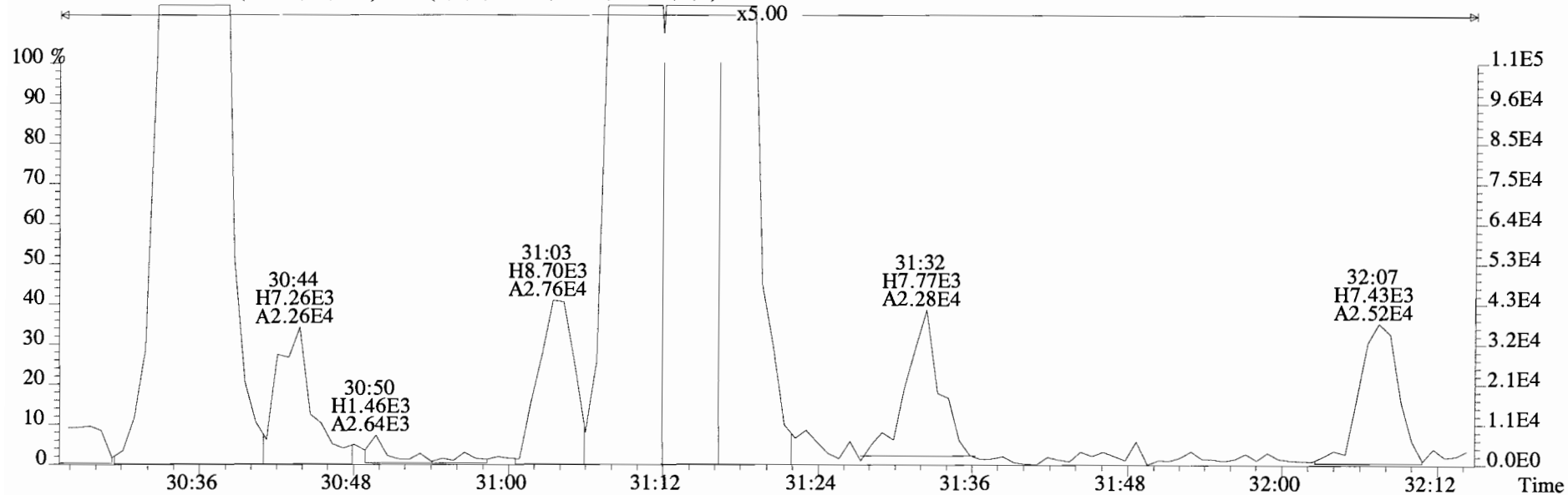
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



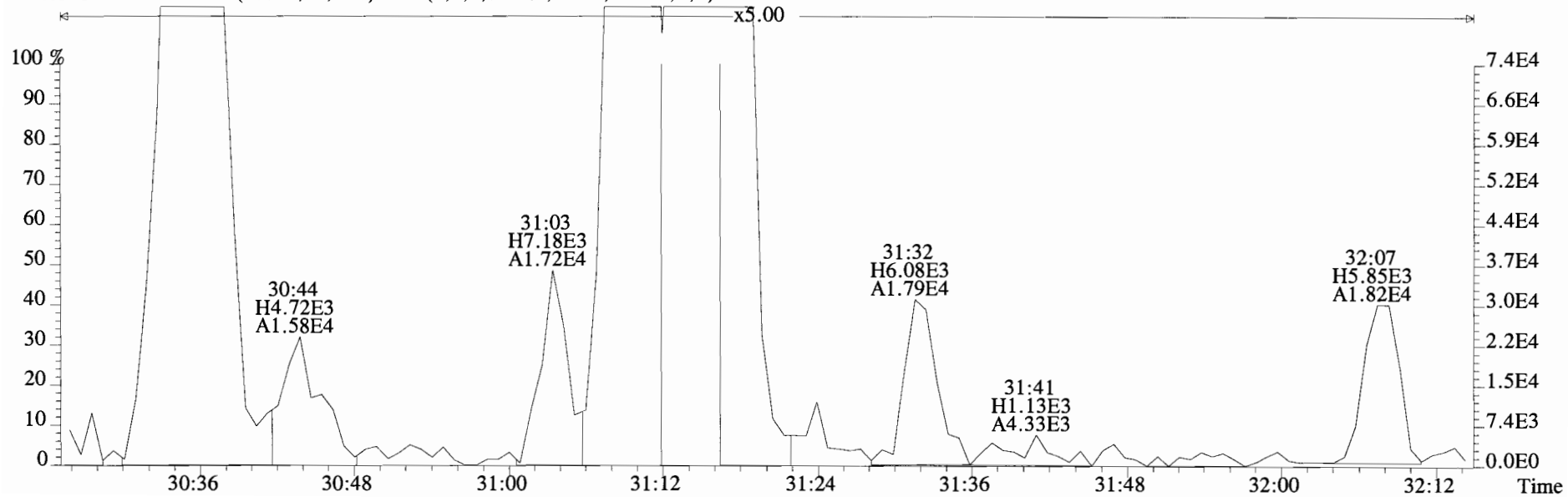
File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



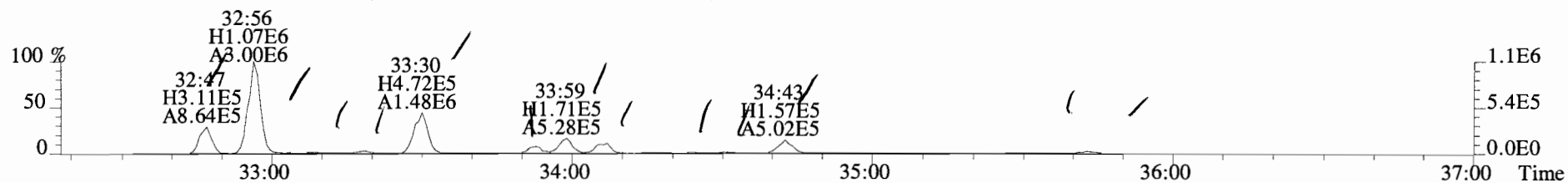
File:140917D1 #1-257 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



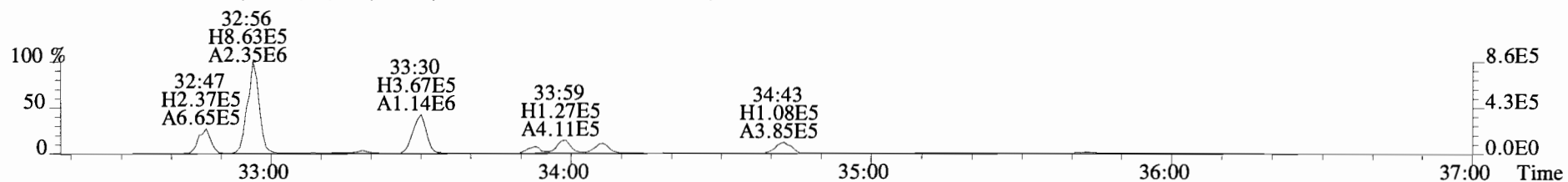
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



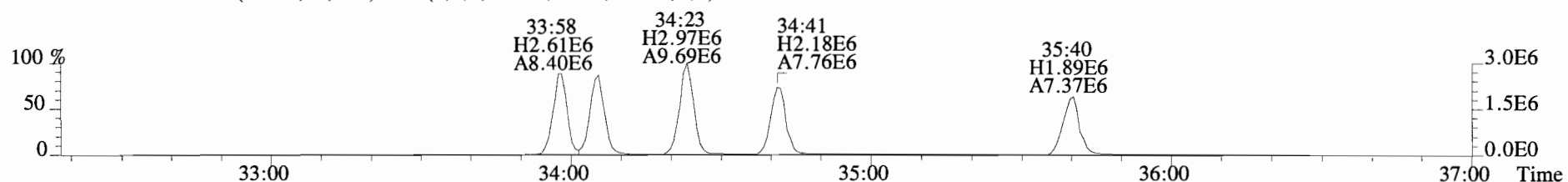
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



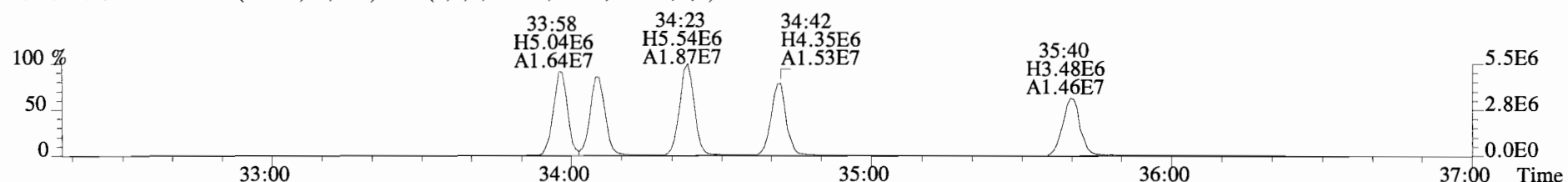
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



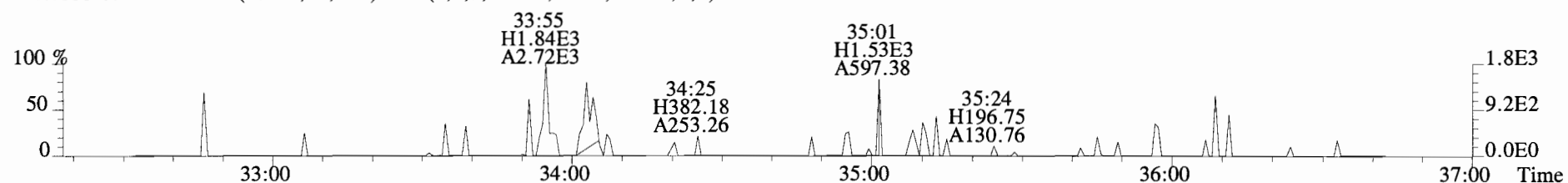
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



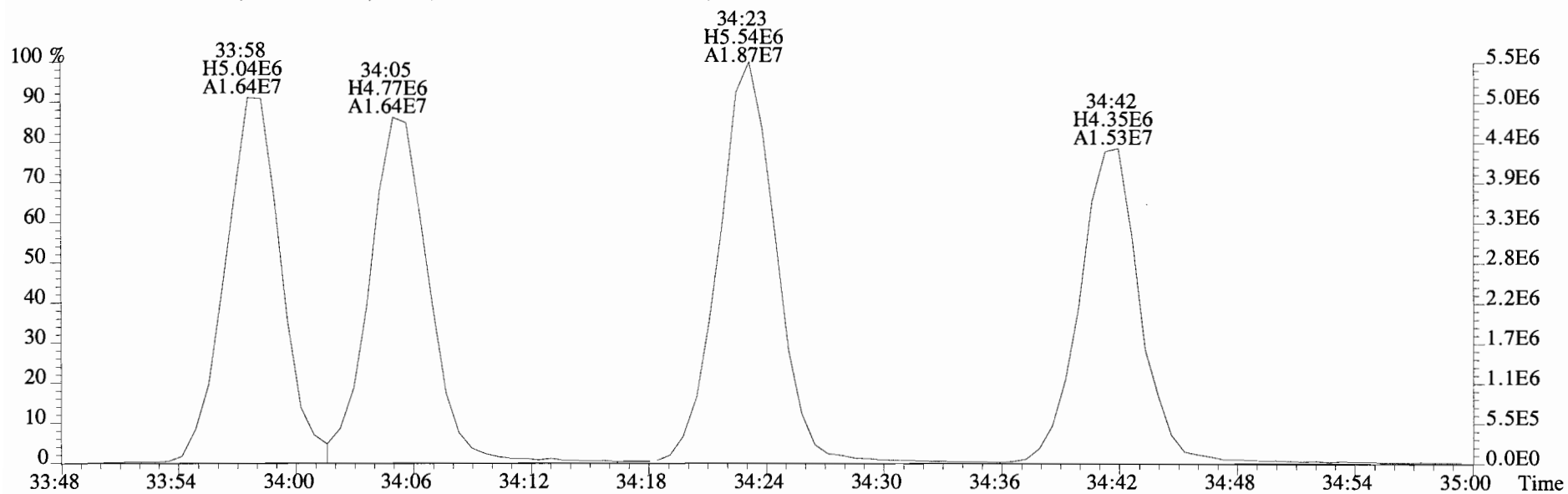
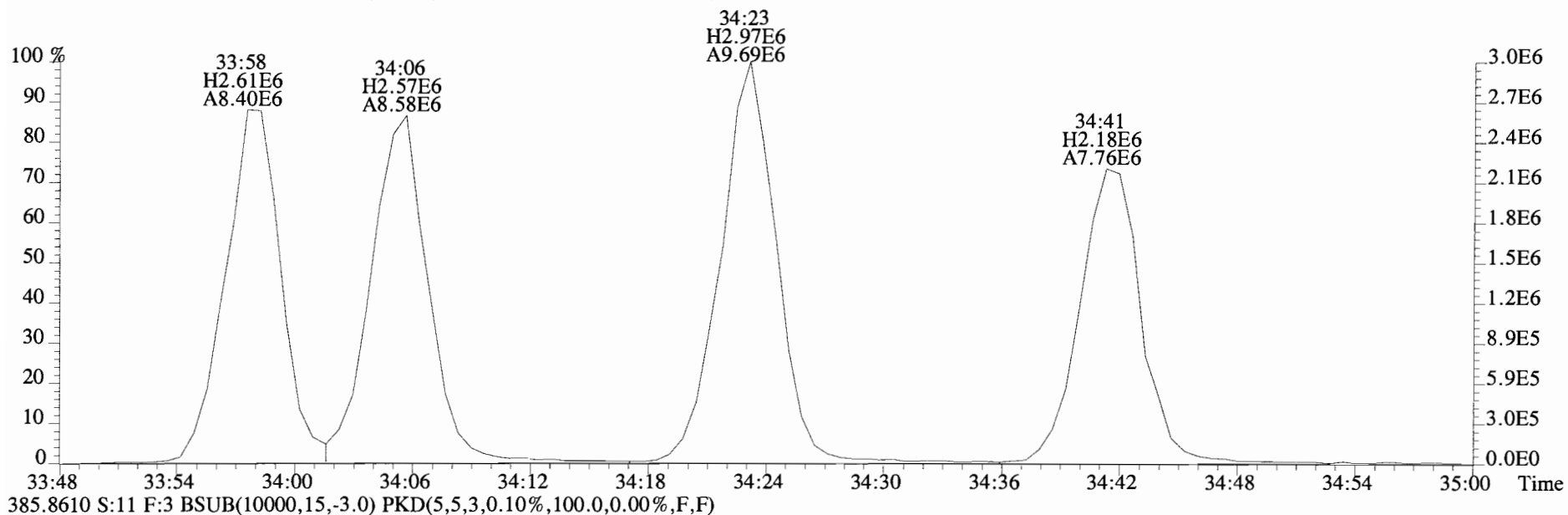
385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

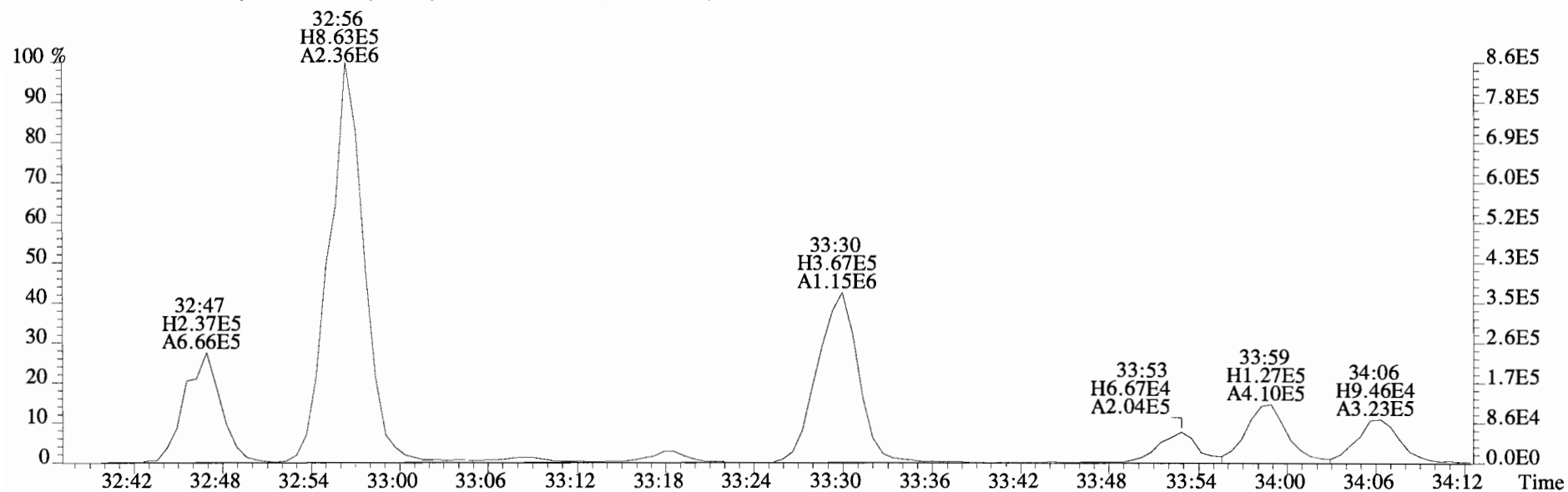
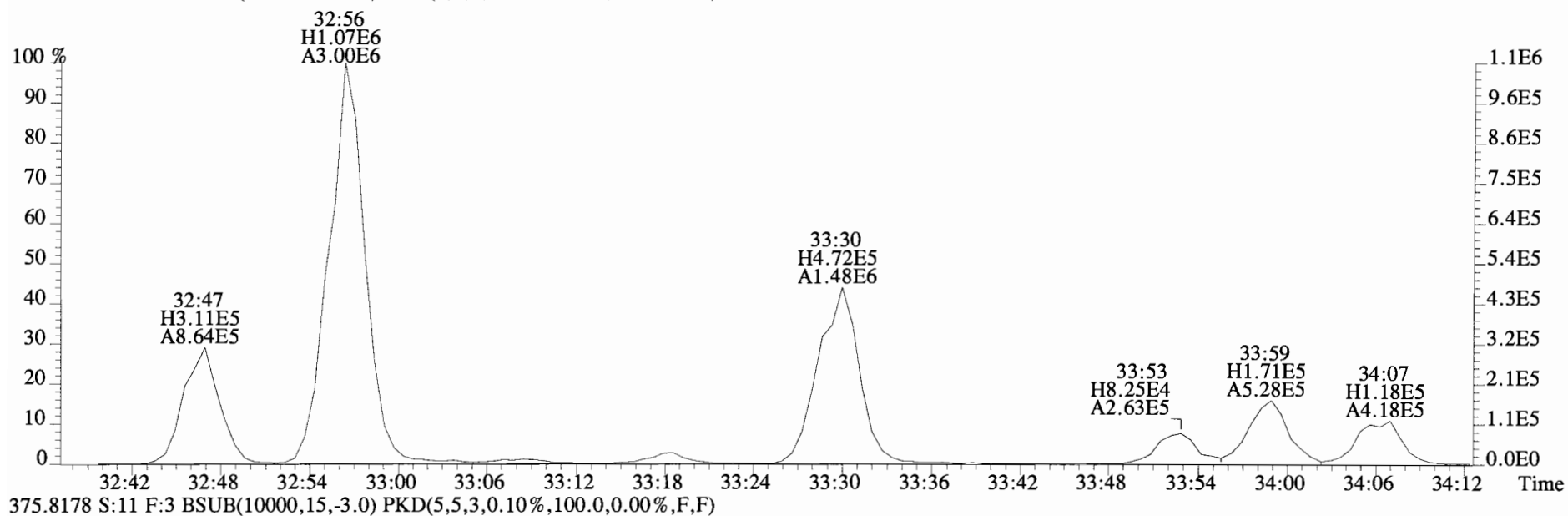


File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

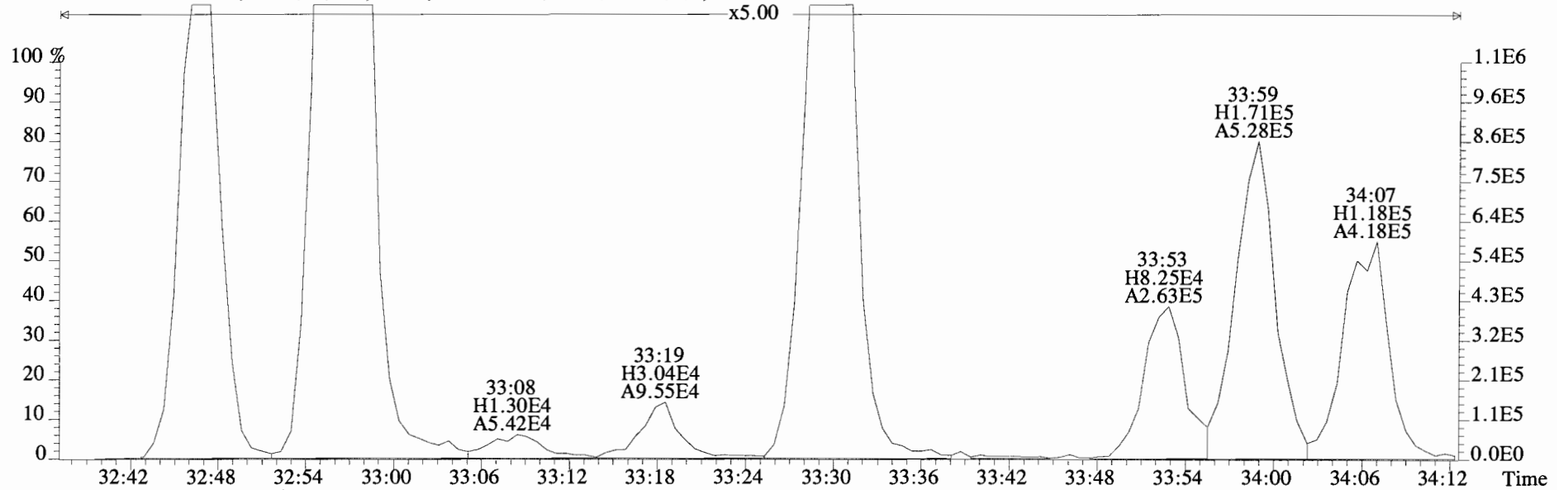




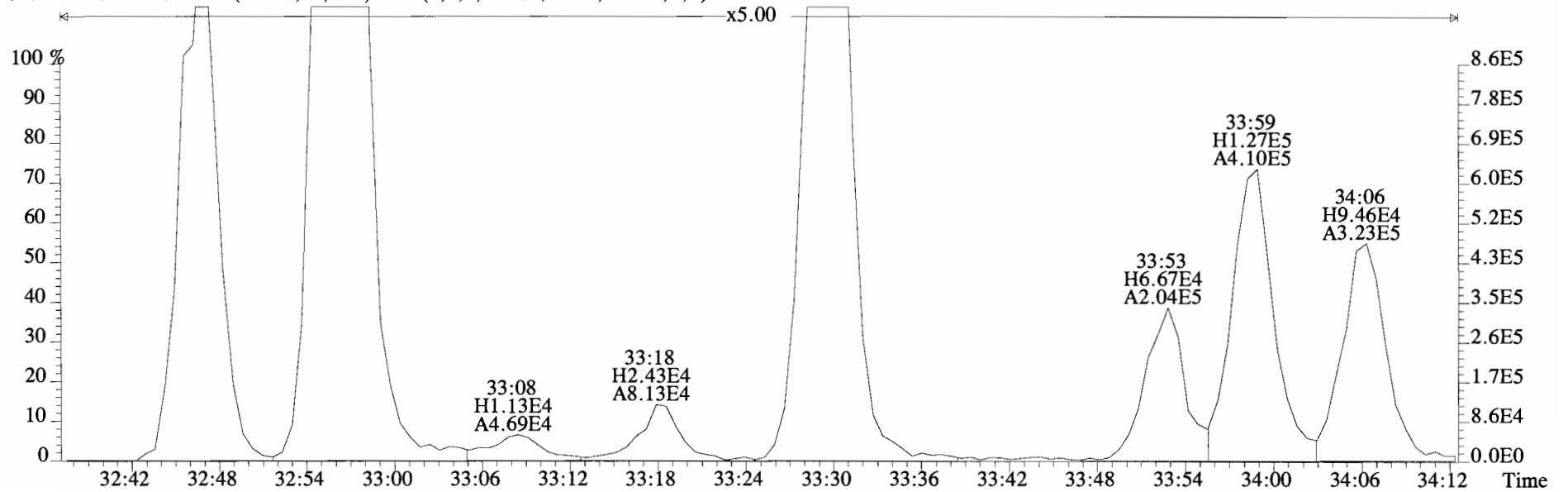
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



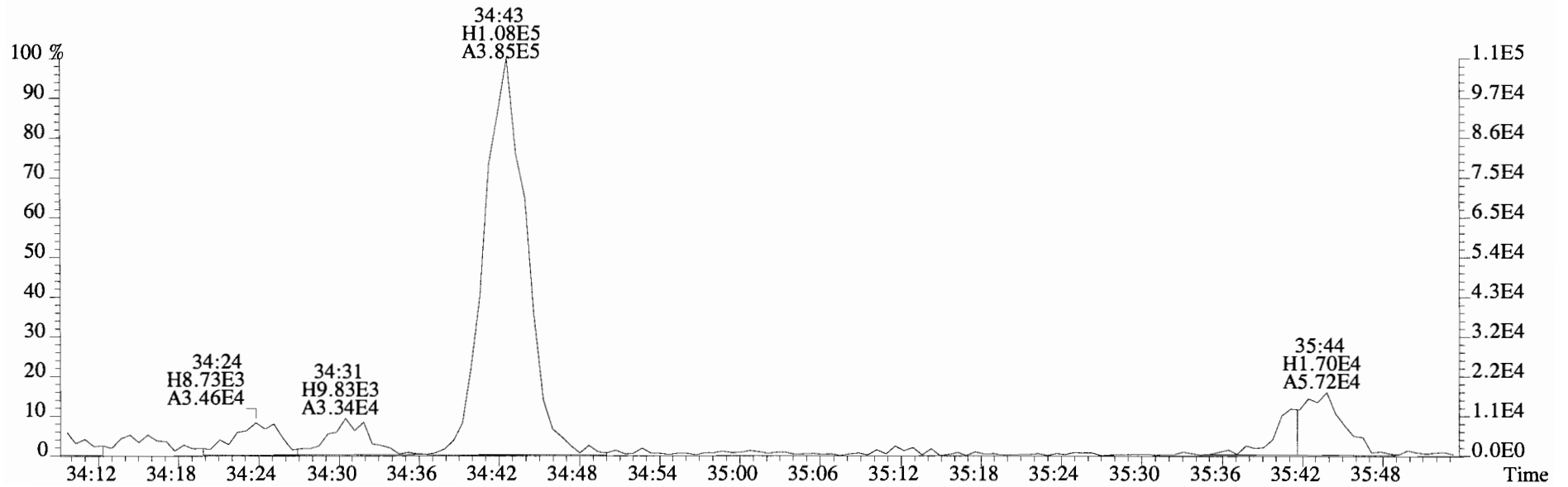
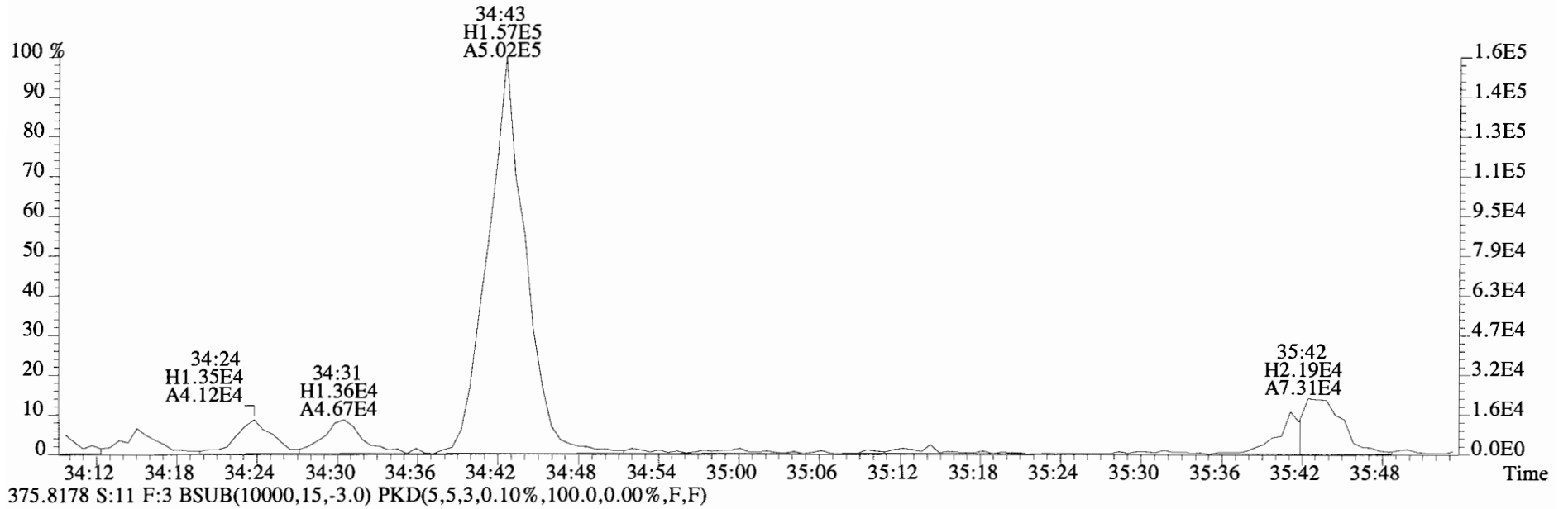
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



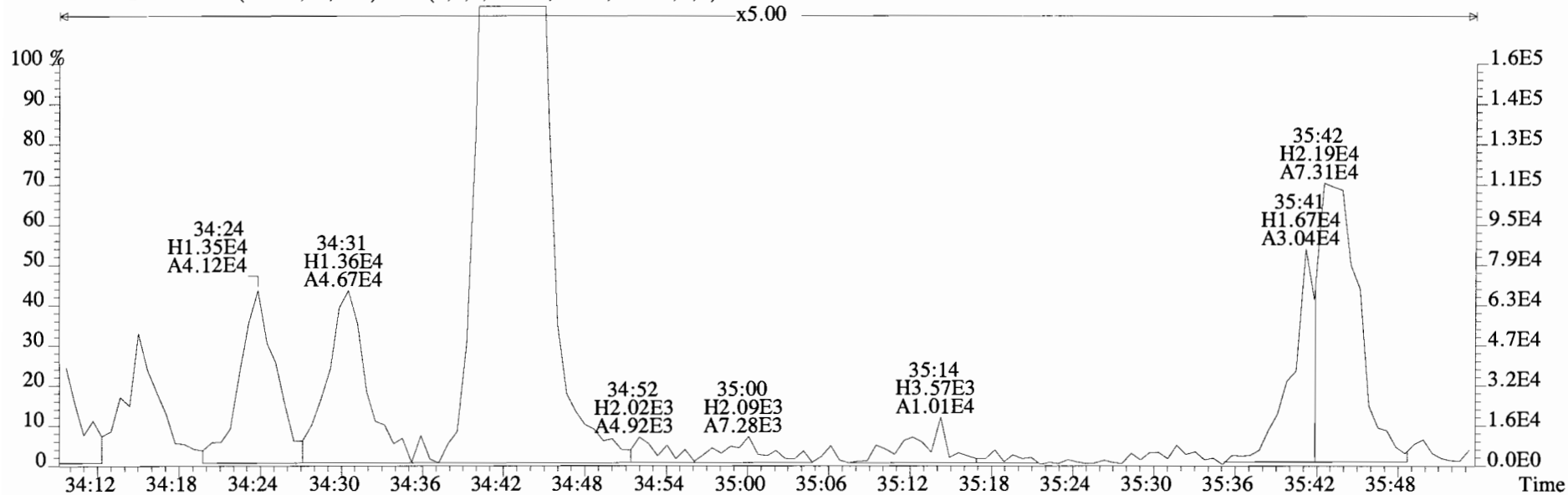
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



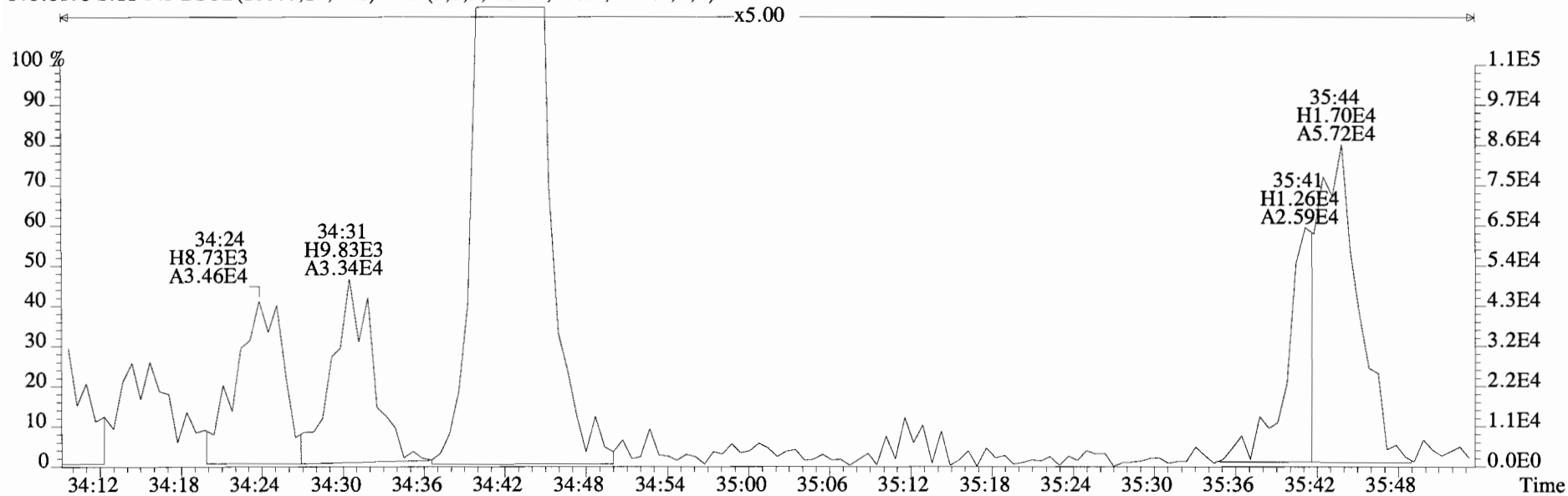
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



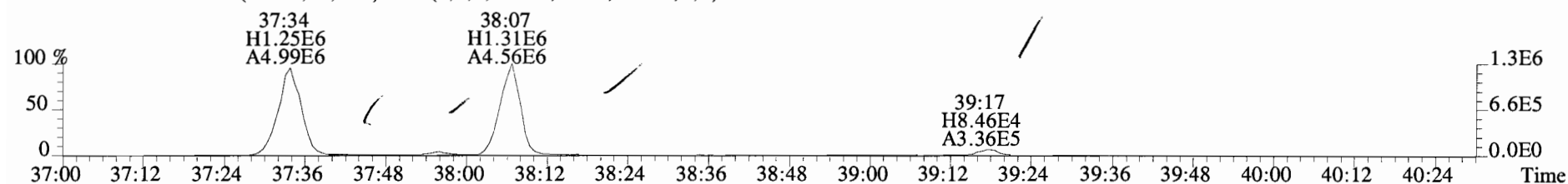
File:140917D1 #1-385 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



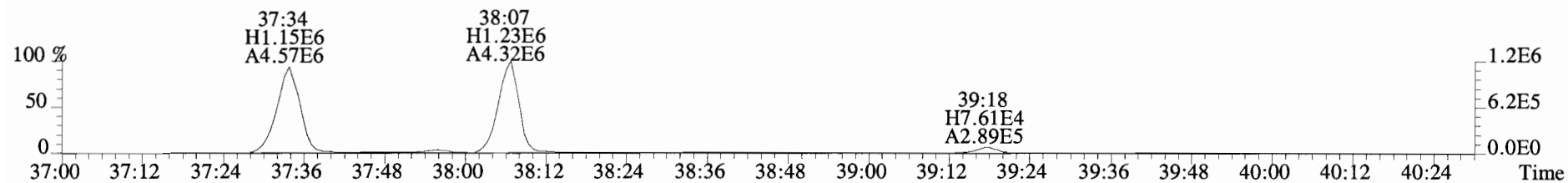
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



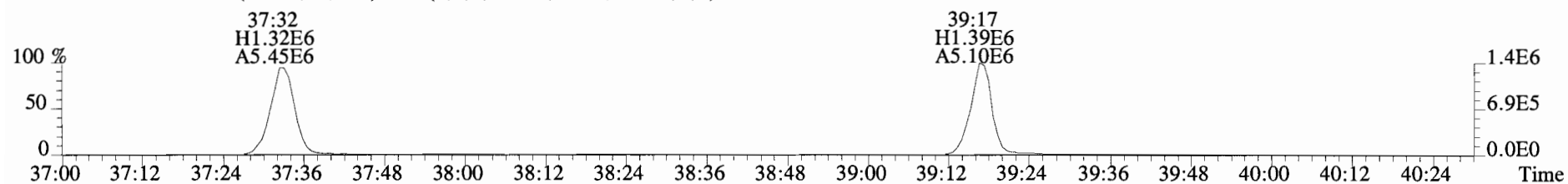
File:140917D1 #1-326 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



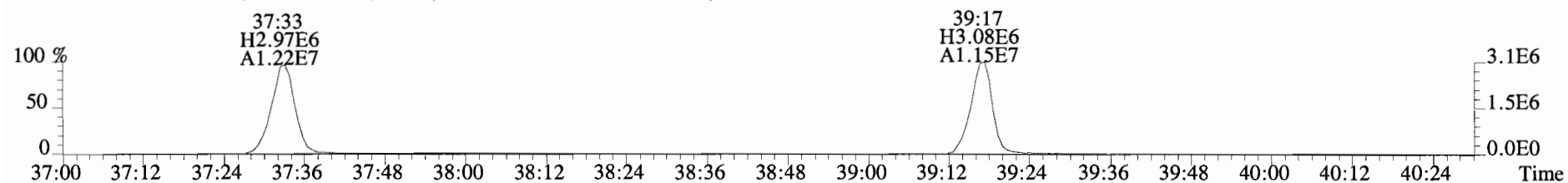
409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



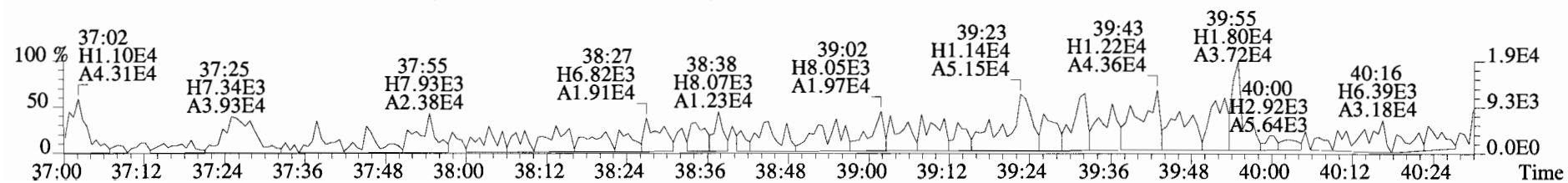
417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



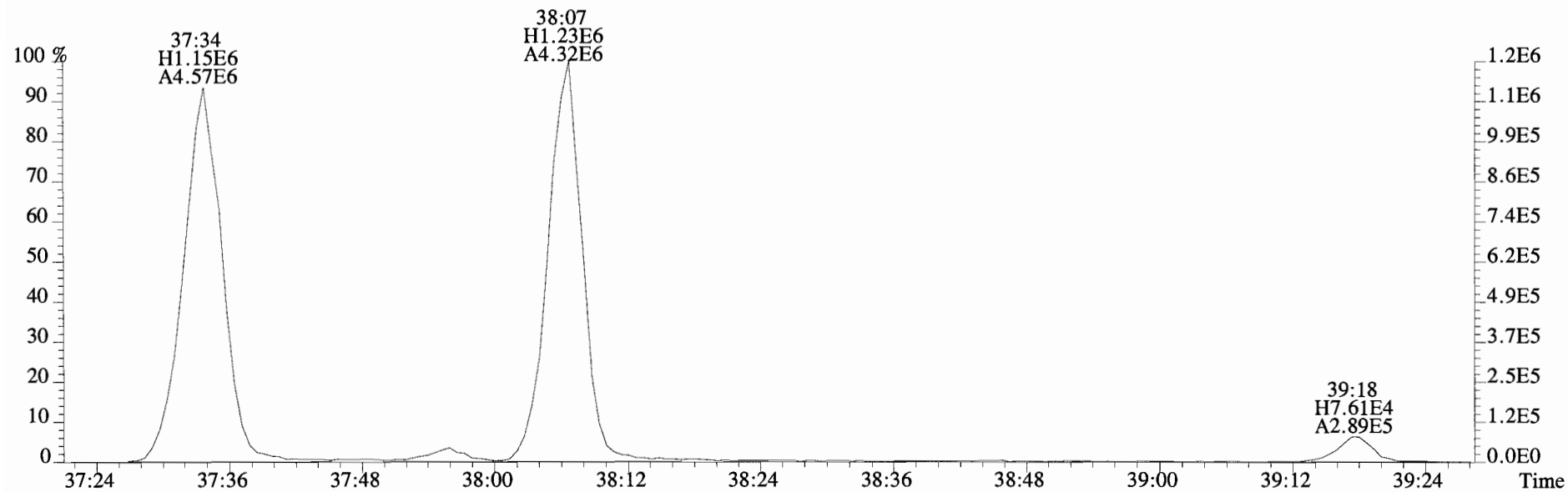
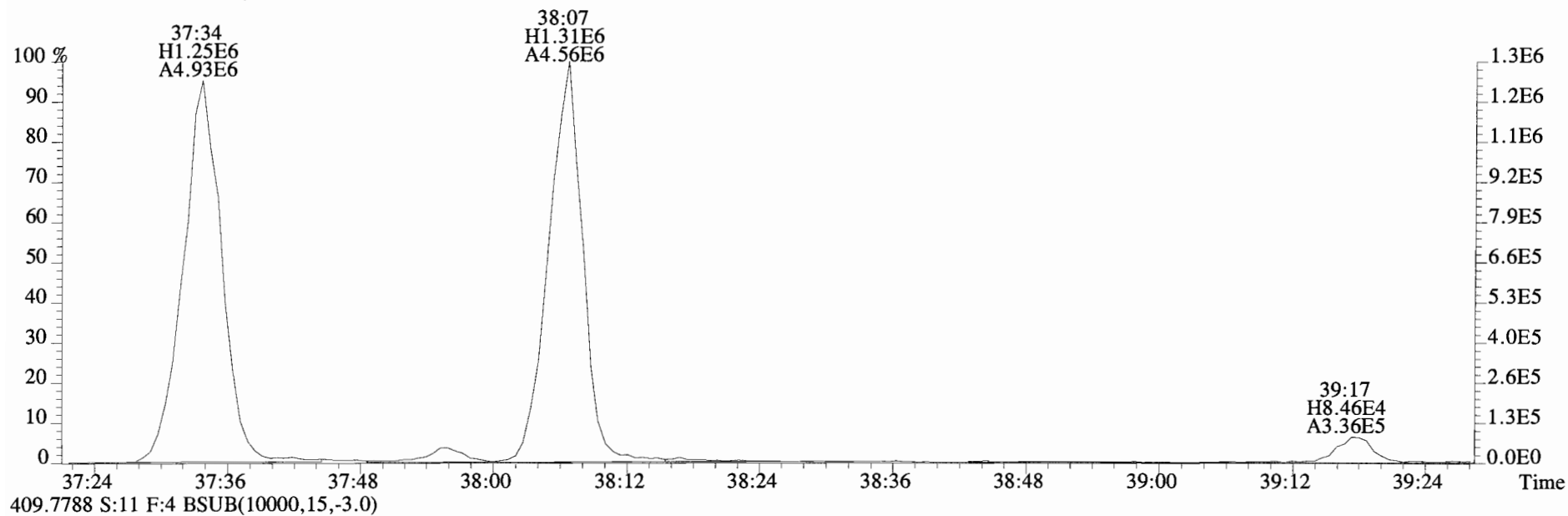
419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



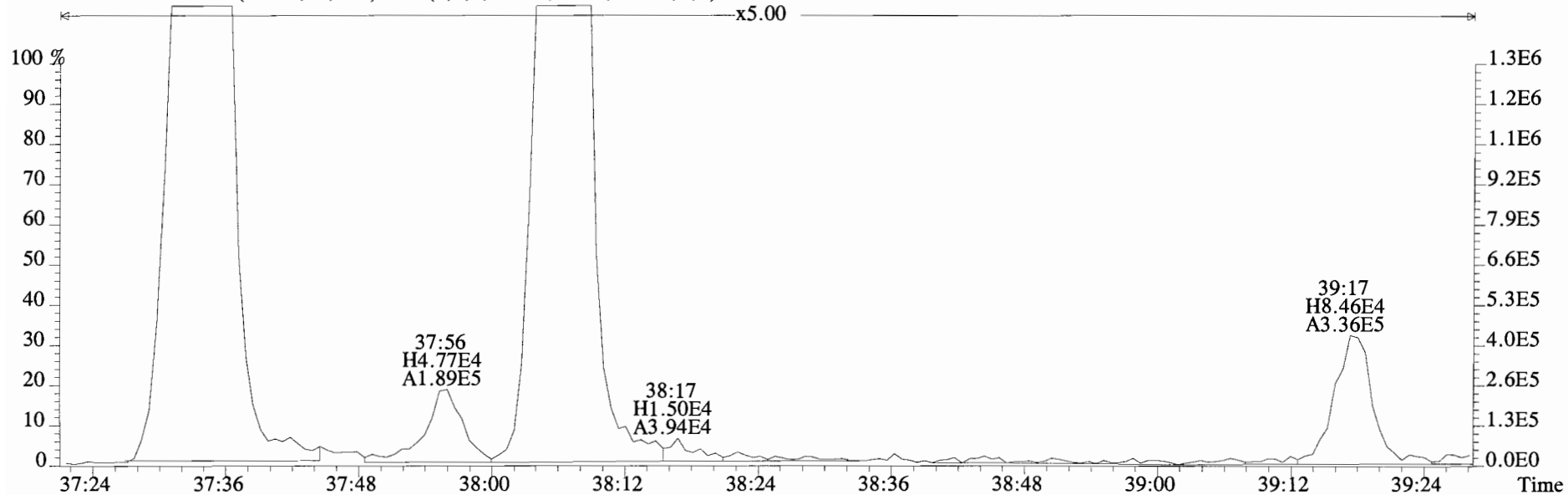
479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



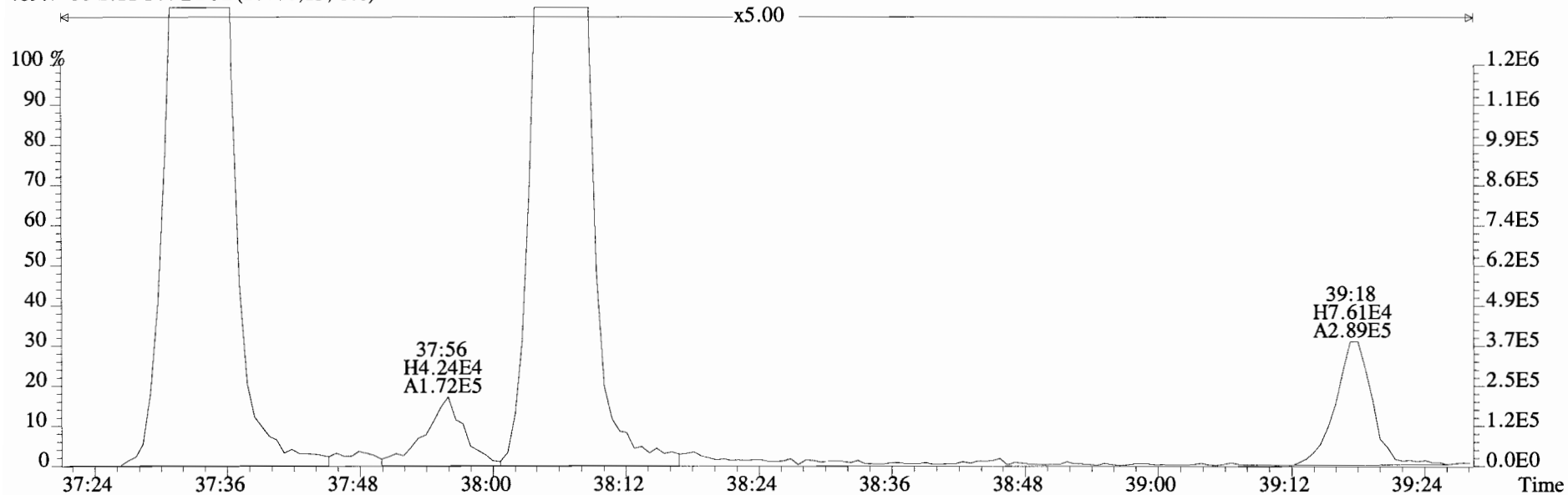
File:140917D1 #1-326 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
407.7818 S:11 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



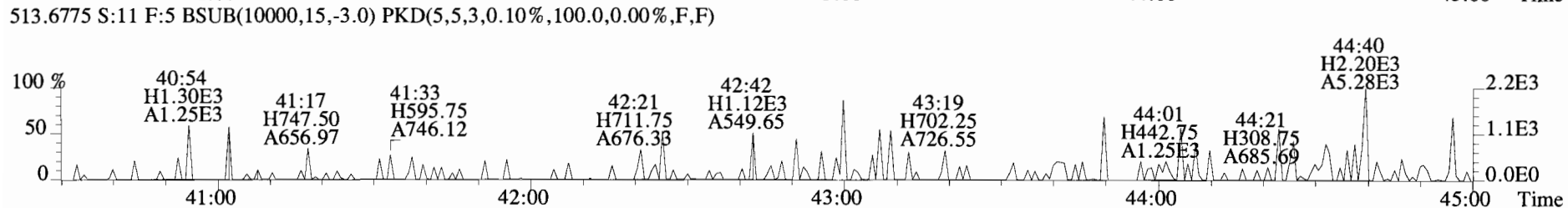
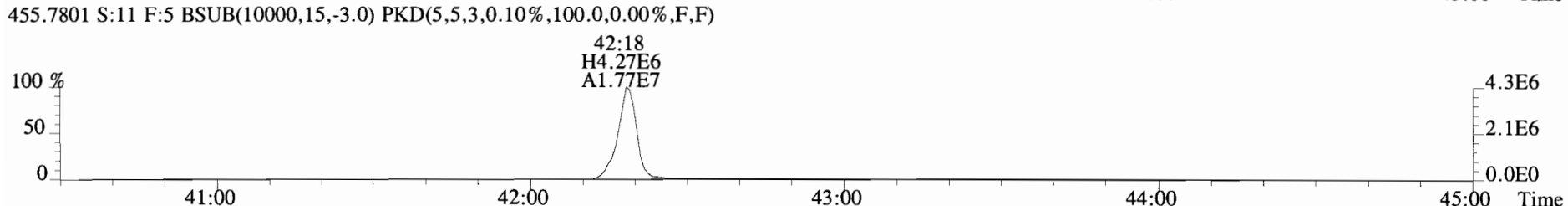
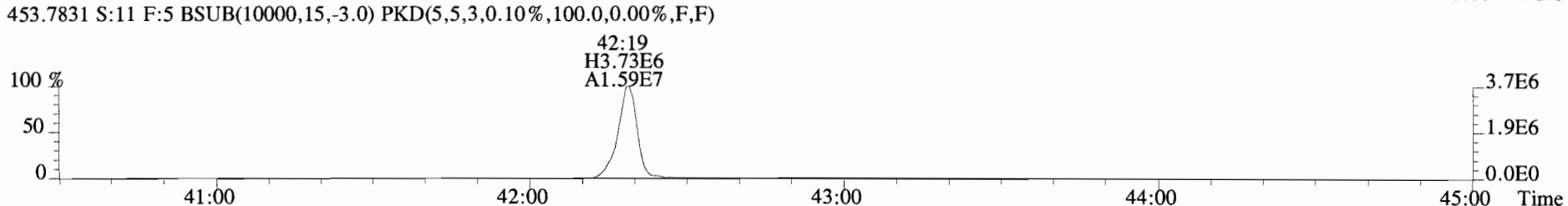
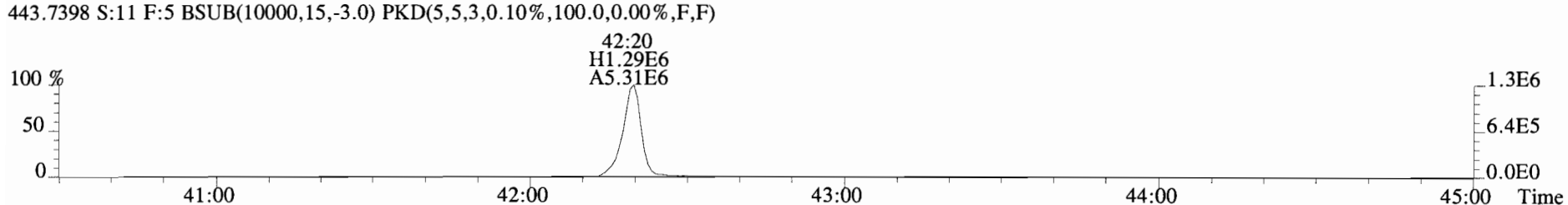
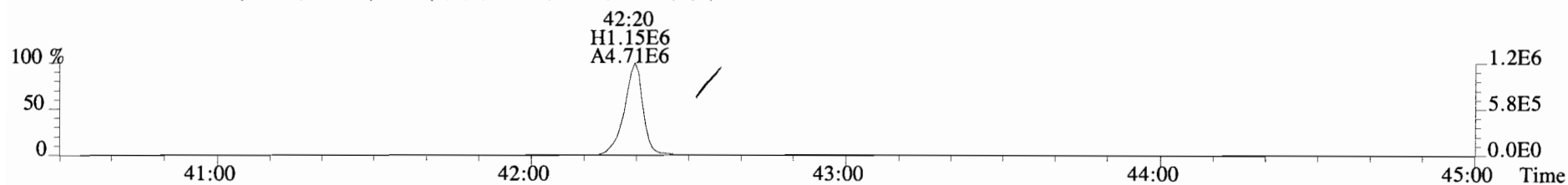
File:140917D1 #1-326 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 Exp:OCDD\_DB5  
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7788 S:11 F:4 BSUB(10000,15,-3.0)



File:140917D1 #1-388 Acq:17-SEP-2014 21:15:00 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03 CS-CB-01-20140903-S 23.69 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)





**SAMPLE DATA**  
**EPA Method 1668C**

Client ID: Method Blank  
Lab ID: B4I0067-BLK1

Filename: 140925E1 S:6 Acq:25-SEP-14 13:27:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n NotFη	1.25	*		4320	2.5	1.85	*	0.996-1.006	
Mono	PCB-2	*	*	n NotFη	1.18	*		4320	2.5	1.98	*	0.983-0.993	
Mono	PCB-3	*	*	n NotFη	1.22	*		4320	2.5	1.92	*	0.996-1.006	
Di	PCB-4/10	*	*	n NotFη	1.55	*		19200	2.5	9.05	*	0.998-1.008	
Di	PCB-7/9	*	*	n NotFη	1.27	*		19200	2.5	7.34	*	0.865-0.873	
Di	PCB-6	*	*	n NotFη	1.26	*		19200	2.5	7.39	*	0.890-0.899	
Di	PCB-5/8	*	*	n NotFη	1.23	*		19200	2.5	7.54	*	0.906-0.916	
Di	PCB-14	*	*	n NotFη	1.23	*		19200	2.5	6.93	*	0.949-0.959	
Di	PCB-11	8.44e+05	1.58	y 25:20	1.16	12.8		*	2.5	*	1.000	0.996-1.006	
Di	PCB-12/13	*	*	n NotFη	1.10	*		19200	2.5	7.77	*	1.010-1.020	
Di	PCB-15	*	*	n NotFη	1.21	*		19200	2.5	7.06	*	1.024-1.034	
Tri	PCB-19	*	*	n NotFη	1.30	*		1660	2.5	0.833	*	0.996-1.006	
Tri	PCB-30	*	*	n NotFη	1.83	*		1660	2.5	0.590	*	1.032-1.042	
Tri	PCB-18	5.60e+04	1.45	n 25:59	0.86	1.30		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	*	*	n NotFη	0.90	*		1660	2.5	0.766	*	0.955-0.965	
Tri	PCB-24/27	*	*	n NotFη	1.18	*		1660	2.5	0.586	*	0.976-0.986	
Tri	PCB-16/32	9.79e+04	1.58	n 27:14	1.03	1.90		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotFη	1.26	*		1620	2.5	0.914	*	0.956-0.966	
Tri	PCB-23	*	*	n NotFη	1.31	*		1620	2.5	0.879	*	0.959-0.969	
Tri	PCB-29	*	*	n NotFη	1.33	*		1620	2.5	0.867	*	0.967-0.977	
Tri	PCB-26	*	*	n NotFη	1.29	*		1620	2.5	0.892	*	0.974-0.984	
Tri	PCB-25	*	*	n NotFη	1.34	*		1620	2.5	0.858	*	0.980-0.990	
Tri	PCB-31	3.95e+04	1.54	n 29:06	1.42	0.892	R	*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	6.31e+04	1.12	y 29:13	1.38	1.47		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-20/21/33	4.26e+04	1.87	n 29:50	1.31	1.04	R	*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	*	*	n NotFη	1.32	*		1620	2.5	0.872	*	1.032-1.042	
Tri	PCB-36	*	*	n NotFη	1.38	*		1620	2.5	0.688	*	0.929-0.939	
Tri	PCB-39	*	*	n NotFη	1.42	*		1620	2.5	0.861	*	0.943-0.953	
Tri	PCB-38	*	*	n NotFη	1.35	*		1620	2.5	0.903	*	0.967-0.976	
Tri	PCB-35	*	*	n NotFη	1.38	*		1620	2.5	0.888	*	0.982-0.992	
Tri	PCB-37	*	*	n NotFη	1.39	*		1620	2.5	0.879	*	0.996-1.006	
Tetra	PCB-54	*	*	n NotFη	1.20	*		1860	2.5	0.933	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotFη	0.97	*		1860	2.5	1.16	*	1.037-1.047	
Tetra	PCB-53	*	*	n NotFη	1.19	*		1860	2.5	1.09	*	0.941-0.951	
Tetra	PCB-51	*	*	n NotFη	1.15	*		1860	2.5	1.12	*	0.952-0.962	
Tetra	PCB-45	*	*	n NotFη	0.97	*		1860	2.5	1.34	*	0.966-0.976	
Tetra	PCB-46	*	*	n NotFη	0.95	*		1860	2.5	1.36	*	0.982-0.992	

Integrations by:

Analyst: DMS

Date: 9/29/14

Reviewed by: dlz

Date: 9/30/14

Client ID: Method Blank  
Lab ID: B4I0067-BLK1

Filename: 140925E1 S:6 Acq:25-SEP-14 13:27:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	7.36e+04	0.79	y 31:36	1.28	1.93		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-73	*	*	n NotFη	1.37	*		1860	2.5	0.942	*	1.000-1.010	
Tetra	PCB-43/49	*	*	n NotFη	1.11	*		1860	2.5	1.16	*	1.005-1.015	
Tetra	PCB-47	5.55e+04	1.05	n 32:07	1.13	1.61	R	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	*	*	n NotFη	1.30	*		1860	2.5	0.993	*	0.999-1.009	
Tetra	PCB-65	*	*	n NotFη	1.33	*		1860	2.5	0.971	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotFη	1.29	*		1860	2.5	1.00	*	1.011-1.021	
Tetra	PCB-44	*	*	n NotFη	0.94	*		1860	2.5	1.38	*	1.020-1.030	
Tetra	PCB-42/59	*	*	n NotFη	1.22	*		1860	2.5	1.06	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	*	n NotFη	1.31	*		1860	2.5	0.987	*	1.046-1.056	
Tetra	PCB-68	*	*	n NotFη	1.49	*		1860	2.5	0.872	*	1.054-1.064	
Tetra	PCB-40	*	*	n NotFη	0.82	*		1860	2.5	1.58	*	1.061-1.071	
Tetra	PCB-57	*	*	n NotFη	1.11	*		1860	2.5	0.904	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotFη	1.07	*		1860	2.5	0.938	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotFη	1.10	*		1860	2.5	0.914	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotFη	1.12	*		1860	2.5	0.901	*	0.982-0.992	
Tetra	PCB-74	*	*	n NotFη	1.20	*		1860	2.5	0.836	*	0.990-1.000	
Tetra	PCB-61/70	*	*	n NotFη	1.08	*		1860	2.5	0.932	*	0.994-1.004	
Tetra	PCB-76/66	*	*	n NotFη	1.14	*		1860	2.5	0.886	*	1.001-1.011	
Tetra	PCB-80	*	*	n NotFη	1.28	*		1860	2.5	0.802	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotFη	1.11	*		1860	2.5	0.923	*	1.005-1.015	
Tetra	PCB-56/60	*	*	n NotFη	1.09	*		1860	2.5	0.943	*	1.018-1.028	
Tetra	PCB-79	*	*	n NotFη	1.12	*		1860	2.5	0.912	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotFη	1.24	*		1860	2.5	0.938	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotFη	1.38	*		1860	2.5	0.840	*	0.995-1.005	
Tetra	PCB-77	*	*	n NotFη	1.21	*		1860	2.5	0.863	*	0.995-1.005	
Penta	PCB-104	*	*	n NotFη	1.26	*		1880	2.5	1.81	*	0.996-1.006	
Penta	PCB-96	*	*	n NotFη	1.09	*		1880	2.5	2.08	*	1.034-1.044	
Penta	PCB-103	*	*	n NotFη	0.93	*		1880	2.5	2.44	*	1.050-1.060	
Penta	PCB-100	*	*	n NotFη	1.00	*		1880	2.5	2.27	*	1.061-1.071	
Penta	PCB-94	*	*	n NotFη	1.11	*		1880	2.5	3.08	*	0.981-0.991	
Penta	PCB-95/98/102	*	*	n NotFη	1.21	*		1880	2.5	2.81	*	0.994-1.004	
Penta	PCB-93	*	*	n NotFη	1.13	*		1880	2.5	3.02	*	0.998-1.008	
Penta	PCB-88/91	*	*	n NotFη	1.02	*		1880	2.5	3.35	*	1.006-1.016	
Penta	PCB-121	*	*	n NotFη	1.90	*		1880	2.5	1.79	*	1.009-1.019	
Penta	PCB-84/92	*	*	n NotFη	1.05	*		1880	2.5	2.86	*	0.986-0.996	
Penta	PCB-89	*	*	n NotFη	1.02	*		1880	2.5	2.96	*	0.991-1.001	

Analyst: *Dms*

Date: *9/29/14*

Client ID: Method Blank  
Lab ID: B4I0067-BLK1

Filename: 140925E1 S:6 Acq:25-SEP-14 13:27:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	* n	NotF	1.19	*		1880	2.5	2.53	*	0.996-1.006	
Penta	PCB-113	*	* n	NotF	1.35	*		1880	2.5	2.23	*	1.002-1.012	
Penta	PCB-99	*	* n	NotF	1.29	*		1880	2.5	2.33	*	1.005-1.015	
Penta	PCB-119	*	* n	NotF	1.72	*		1880	2.5	1.99	*	0.982-0.992	
Penta	PCB-108/112	*	* n	NotF	1.29	*		1880	2.5	2.66	*	0.986-0.996	
Penta	PCB-83	*	* n	NotF	1.52	*		1880	2.5	2.25	*	0.991-1.001	
Penta	PCB-97	*	* n	NotF	1.25	*		1880	2.5	2.75	*	0.996-1.006	
Penta	PCB-86	*	* n	NotF	1.02	*		1880	2.5	3.35	*	1.000-1.010	
Penta	PCB-87/117/125	*	* n	NotF	1.56	*		1880	2.5	2.20	*	1.002-1.012	
Penta	PCB-111/115	*	* n	NotF	1.75	*		1880	2.5	1.96	*	1.007-1.017	
Penta	PCB-85/116	*	* n	NotF	1.30	*		1880	2.5	2.63	*	1.010-1.020	
Penta	PCB-120	*	* n	NotF	1.78	*		1880	2.5	1.92	*	1.016-1.026	
Penta	PCB-110	*	* n	NotF	1.68	*		1880	2.5	2.04	*	1.020-1.030	
Penta	PCB-82	*	* n	NotF	0.74	*		1880	2.5	3.65	*	0.972-0.982	
Penta	PCB-124	*	* n	NotF	1.32	*		1880	2.5	2.04	*	0.988-0.998	
Penta	PCB-107/109	*	* n	NotF	1.22	*		1880	2.5	2.20	*	0.991-1.001	
Penta	PCB-123	*	* n	NotF	1.22	*		1880	2.5	2.21	*	0.995-1.005	
Penta	PCB-106/118	*	* n	NotF	1.22	*		1880	2.5	2.09	*	0.996-1.006	
Penta	PCB-114	*	* n	NotF	1.36	*		1900	2.5	1.56	*	0.995-1.005	
Penta	PCB-122	*	* n	NotF	1.24	*		1900	2.5	1.71	*	0.999-1.009	
Penta	PCB-105	*	* n	NotF	1.28	*		1900	2.5	1.58	*	0.995-1.005	
Penta	PCB-127	*	* n	NotF	1.14	*		1900	2.5	1.67	*	0.995-1.005	
Penta	PCB-126	*	* n	NotF	1.28	*		1900	2.5	1.89	*	0.995-1.005	
Hexa	PCB-155	*	* n	NotF	1.14	*		1380	2.5	2.51	*	0.966-1.006	
Hexa	PCB-150	*	* n	NotF	1.06	*		1380	2.5	2.67	*	1.030-1.040	
Hexa	PCB-152	*	* n	NotF	1.10	*		1380	2.5	2.59	*	1.043-1.053	
Hexa	PCB-145	*	* n	NotF	1.09	*		1380	2.5	2.60	*	1.055-1.065	
Hexa	PCB-136	*	* n	NotF	1.08	*		1380	2.5	2.62	*	1.064-1.074	
Hexa	PCB-148	*	* n	NotF	0.74	*		1380	2.5	3.84	*	1.066-1.076	
Hexa	PCB-154	*	* n	NotF	0.88	*		1380	2.5	3.22	*	1.079-1.089	
Hexa	PCB-151	*	* n	NotF	0.81	*		1380	2.5	3.52	*	1.097-1.107	
Hexa	PCB-135	*	* n	NotF	0.78	*		1380	2.5	3.65	*	1.101-1.113	
Hexa	PCB-144	*	* n	NotF	0.82	*		1380	2.5	3.47	*	1.105-1.116	
Hexa	PCB-147	*	* n	NotF	0.83	*		1380	2.5	3.43	*	1.011-1.120	
Hexa	PCB-139/149	*	* n	NotF	0.84	*		1380	2.5	3.37	*	1.115-1.127	
Hexa	PCB-140	*	* n	NotF	0.79	*		1380	2.5	3.63	*	1.120-1.132	
Hexa	PCB-134/143	*	* n	NotF	0.93	*		1430	2.5	1.50	*	0.970-0.980	

Analyst: *DMS*

Date: *9/29/14*

Client ID: Method Blank  
Lab ID: B4I0067-BLK1

Filename: 140925E1 S:6 Acq:25-SEP-14 13:27:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n	NotF $\eta$	0.95	*	1430	2.5	1.47	*	0.977-0.987	
Hexa	PCB-131	*	*	n	NotF $\eta$	0.91	*	1430	2.5	1.52	*	0.981-0.991	
Hexa	PCB-146/165	*	*	n	NotF $\eta$	1.16	*	1430	2.5	1.20	*	0.986-0.996	
Hexa	PCB-132/161	*	*	n	NotF $\eta$	1.11	*	1430	2.5	1.25	*	0.992-1.002	
Hexa	PCB-153	*	*	n	NotF $\eta$	1.18	*	1430	2.5	1.18	*	0.995-1.005	
Hexa	PCB-168	*	*	n	NotF $\eta$	1.37	*	1430	2.5	1.01	*	1.000-1.010	
Hexa	PCB-141	*	*	n	NotF $\eta$	0.97	*	1430	2.5	1.68	*	0.996-1.005	
Hexa	PCB-137	*	*	n	NotF $\eta$	1.07	*	1430	2.5	1.53	*	1.004-1.014	
Hexa	PCB-130	*	*	n	NotF $\eta$	0.85	*	1430	2.5	1.93	*	1.007-1.017	
Hexa	PCB-138/163/164	*	*	n	NotF $\eta$	1.23	*	1430	2.5	1.30	*	0.996-1.006	
Hexa	PCB-158/160	*	*	n	NotF $\eta$	1.29	*	1430	2.5	1.23	*	1.001-1.011	
Hexa	PCB-129	*	*	n	NotF $\eta$	0.92	*	1430	2.5	1.72	*	1.007-1.017	
Hexa	PCB-166	*	*	n	NotF $\eta$	1.12	*	1430	2.5	1.26	*	0.988-0.998	
Hexa	PCB-159	*	*	n	NotF $\eta$	1.16	*	1430	2.5	1.21	*	0.995-1.005	
Hexa	PCB-128/162	*	*	n	NotF $\eta$	1.02	*	1430	2.5	1.38	*	1.002-1.012	
Hexa	PCB-167	*	*	n	NotF $\eta$	1.06	*	1430	2.5	1.27	*	0.995-1.005	
Hexa	PCB-156	*	*	n	NotF $\eta$	1.18	*	1430	2.5	1.20	*	0.995-1.005	
Hexa	PCB-157	*	*	n	NotF $\eta$	1.08	*	1430	2.5	1.28	*	0.995-1.005	
Hexa	PCB-169	*	*	n	NotF $\eta$	1.11	*	1430	2.5	1.42	*	0.995-1.005	
Hepta	PCB-188	*	*	n	NotF $\eta$	1.40	*	1390	2.5	0.849	*	0.995-1.005	
Hepta	PCB-184	*	*	n	NotF $\eta$	1.24	*	1390	2.5	0.963	*	1.006-1.016	
Hepta	PCB-179	*	*	n	NotF $\eta$	1.30	*	1390	2.5	0.914	*	1.024-1.034	
Hepta	PCB-176	*	*	n	NotF $\eta$	1.36	*	1390	2.5	0.875	*	1.035-1.045	
Hepta	PCB-186	*	*	n	NotF $\eta$	1.28	*	1390	2.5	0.934	*	1.049-1.059	
Hepta	PCB-178	*	*	n	NotF $\eta$	0.94	*	1390	2.5	1.27	*	1.061-1.071	
Hepta	PCB-175	*	*	n	NotF $\eta$	0.97	*	1390	2.5	1.23	*	1.069-1.079	
Hepta	PCB-182/187	*	*	n	NotF $\eta$	1.01	*	1390	2.5	1.17	*	1.073-1.083	
Hepta	PCB-183	*	*	n	NotF $\eta$	1.08	*	1390	2.5	1.10	*	1.080-1.090	
Hepta	PCB-185	*	*	n	NotF $\eta$	1.34	*	1390	2.5	1.32	*	0.951-0.961	
Hepta	PCB-174	*	*	n	NotF $\eta$	1.34	*	1390	2.5	1.33	*	0.958-0.968	
Hepta	PCB-181	*	*	n	NotF $\eta$	1.36	*	1390	2.5	1.30	*	0.961-0.971	
Hepta	PCB-177	*	*	n	NotF $\eta$	1.24	*	1390	2.5	1.43	*	0.964-0.974	
Hepta	PCB-171	*	*	n	NotF $\eta$	1.31	*	1390	2.5	1.35	*	0.970-0.980	
Hepta	PCB-173	*	*	n	NotF $\eta$	1.16	*	1390	2.5	1.53	*	0.979-0.989	
Hepta	PCB-172	*	*	n	NotF $\eta$	1.22	*	1390	2.5	1.45	*	0.988-0.998	
Hepta	PCB-192	*	*	n	NotF $\eta$	1.53	*	1390	2.5	1.16	*	0.991-1.001	
Hepta	PCB-180	*	*	n	NotF $\eta$	1.43	*	1390	2.5	1.24	*	0.995-1.005	

Analyst: Dms

Date: 9/29/14

Client ID: Method Blank  
Lab ID: B4I0067-BLK1

Filename: 140925E1 S:6 Acq:25-SEP-14 13:27:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	* n	NotFη	1.65	*		1390	2.5	1.07	*	0.999-1.009	
Hepta	PCB-191	*	* n	NotFη	1.67	*		1390	2.5	1.06	*	1.004-1.014	
Hepta	PCB-170	*	* n	NotFη	1.50	*		1390	2.5	1.51	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotFη	2.02	*		1390	2.5	1.12	*	0.998-1.008	
Hepta	PCB-189	*	* n	NotFη	1.54	*		1390	2.5	1.15	*	0.995-1.005	
Octa	PCB-202	*	* n	NotFη	1.04	*		1360	2.5	2.33	*	0.995-1.005	
Octa	PCB-201	*	* n	NotFη	1.10	*		1360	2.5	2.20	*	1.006-1.016	
Octa	PCB-204	*	* n	NotFη	0.99	*		1360	2.5	2.44	*	1.009-1.019	
Octa	PCB-197	*	* n	NotFη	1.07	*		1360	2.5	2.26	*	1.015-1.025	
Octa	PCB-200	*	* n	NotFη	1.02	*		1360	2.5	2.38	*	1.032-1.044	
Octa	PCB-198	*	* n	NotFη	0.74	*		1360	2.5	3.26	*	1.058-1.068	
Octa	PCB-199	*	* n	NotFη	0.73	*		1360	2.5	3.33	*	1.060-1.070	
Octa	PCB-196/203	*	* n	NotFη	0.77	*		1360	2.5	3.14	*	1.066-1.076	
Octa	PCB-195	*	* n	NotFη	1.20	*		1530	2.5	2.18	*	0.979-0.989	
Octa	PCB-194	*	* n	NotFη	1.25	*		1530	2.5	2.10	*	0.995-1.005	
Octa	PCB-205	*	* n	NotFη	1.41	*		1530	2.5	1.85	*	1.001-1.011	
Nona	PCB-208	*	* n	NotFη	0.96	*		1520	2.5	1.20	*	0.995-1.005	
Nona	PCB-207	*	* n	NotFη	0.92	*		1520	2.5	1.26	*	1.001-1.011	
Nona	PCB-206	*	* n	NotFη	1.03	*		1520	2.5	2.92	*	0.995-1.005	
Deca	PCB-209	*	* n	NotFη	1.18	*		1030	2.5	2.65	*	0.995-1.005	

Analyst: Dms

Date: 10/1/14

Client ID: Method Blank  
Lab ID: B4I0067-BLK1

Filename: 140925E1 S:6 Acq:25-SEP-14 13:27:30  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000  
ConCal: ST140925E1-1 EndCAL: NA

Page 6 of

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.22	*	
Total Di-PCB	8.44e+05	1.58 y	25:20	1.21	12.8094	
Total Tri-PCB	*	* n	NotFnd	1.16	*	
Total Tri-PCB	6.31e+04	1.12 y	29:13	1.35	1.46564	Sum:1.46564
Total Tetra-PCB	7.36e+04	0.79 y	31:36	1.17	1.92854	
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: ~~22.342~~ 25190000

16.2

Integrations

by

Analyst: DMS

Date: 9/29/14

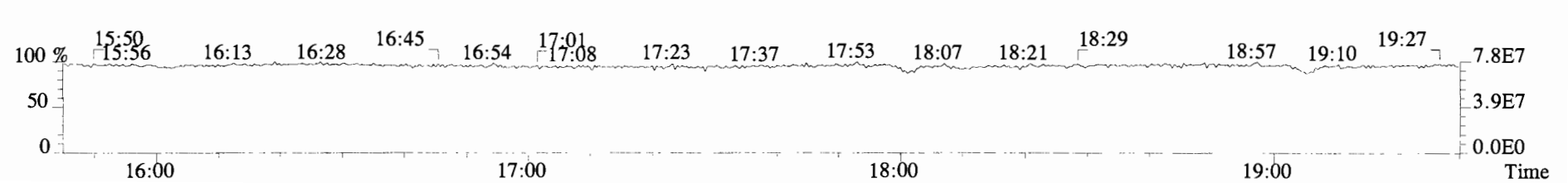
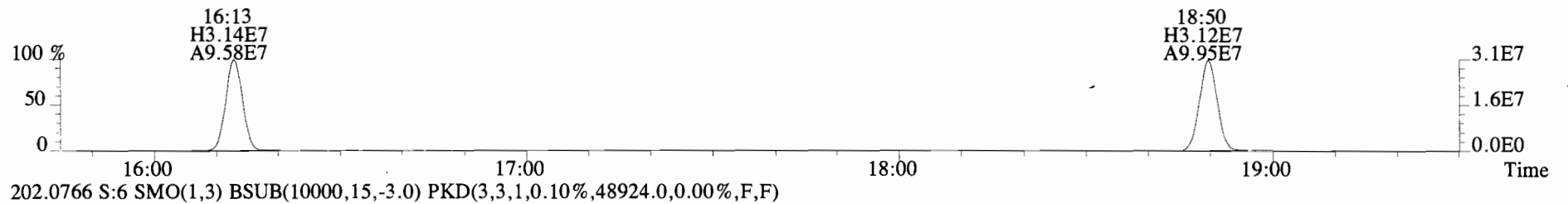
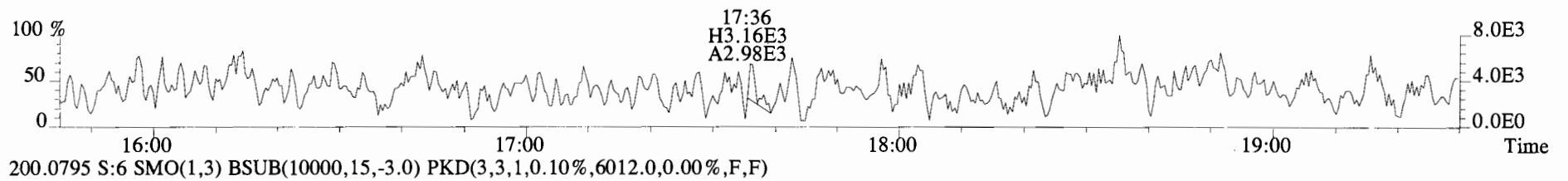
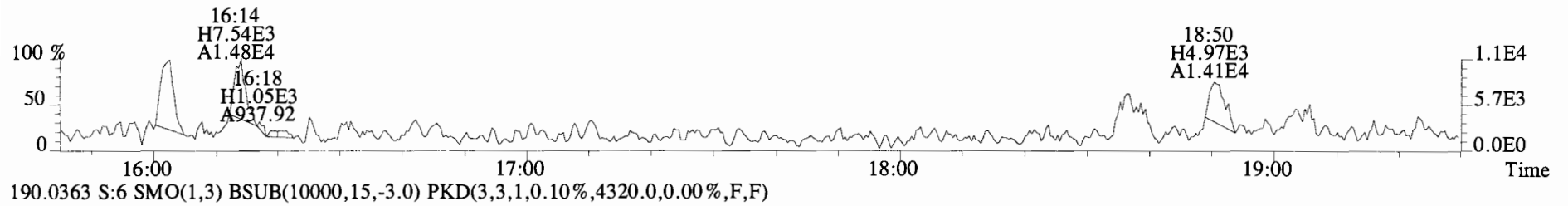
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13C-PCB-1	1.24e+08	3.39	y	0.89	16:13	0.623	0.622-0.628	1700	84.8											
13C-PCB-3	1.29e+08	3.38	y	0.93	18:50	0.723	0.721-0.729	1690	84.7		13C-PCB-79	1.08e+08	0.77	y	1.01	37:55	1.028	1.023-1.033	2050	102
13C-PCB-4	6.24e+07	1.59	y	0.55	20:10	0.775	0.772-0.780	1390	69.4		13C-PCB-178	3.21e+07	0.46	y	0.63	45:45	0.985	0.979-0.989	1910	95.5
13C-PCB-9	9.66e+07	1.58	y	0.83	21:57	0.843	0.840-0.848	1420	71.2											
13C-PCB-11	1.14e+08	1.56	y	0.94	25:20	0.973	0.968-0.978	1480	73.8											
13C-PCB-19	6.25e+07	1.11	y	0.53	24:19	0.934	0.929-0.939	1430	71.4											
13C-PCB-28	6.25e+07	1.00	y	0.89	29:11	1.003	0.999-1.009	1350	67.3											
13C-PCB-32	1.00e+08	1.12	y	0.81	27:14	1.046	1.041-1.051	1500	74.9		13C-PCB-79	1.08e+08	0.77	y	1.20	37:55	0.969	0.963-0.973	2460	123
13C-PCB-37	6.44e+07	1.01	y	0.83	33:03	1.136	1.131-1.143	1480	74.0		13C-PCB-178	3.21e+07	0.46	y	0.94	45:45	0.925	0.920-0.930	2360	118
13C-PCB-47	6.10e+07	0.76	y	0.74	32:05	0.870	0.867-0.875	1570	78.3											
13C-PCB-52	5.97e+07	0.76	y	0.71	31:36	0.857	0.853-0.861	1610	80.4											
13C-PCB-54	6.87e+07	0.78	y	0.85	28:03	0.761	0.758-0.766	1540	77.1											
13C-PCB-70	8.07e+07	0.78	y	0.94	35:37	0.966	0.961-0.971	1630	81.6											
13C-PCB-77	8.21e+07	0.78	y	0.89	39:44	1.078	1.073-1.083	1750	87.6											
13C-PCB-80	8.12e+07	0.78	y	0.96	36:02	0.977	0.972-0.982	1610	80.4											
13C-PCB-81	7.32e+07	0.78	y	0.84	39:08	1.061	1.057-1.067	1670	83.3											
13C-PCB-95	3.47e+07	1.63	y	0.74	35:55	0.913	0.908-0.918	1520	76.2											
13C-PCB-97	3.58e+07	1.62	y	0.69	38:54	0.989	0.984-0.994	1700	84.8											
13C-PCB-101	3.94e+07	1.62	y	0.79	37:36	0.956	0.951-0.961	1640	82.0											
13C-PCB-104	5.05e+07	1.61	y	1.00	32:45	0.833	0.829-0.837	1660	82.9											
13C-PCB-105	5.94e+07	1.55	y	1.24	43:10	0.929	0.924-0.934	1800	90.2											
13C-PCB-114	5.87e+07	1.57	y	1.21	42:18	0.910	0.905-0.915	1830	91.3											
13C-PCB-118	4.80e+07	1.62	y	0.98	41:39	1.059	1.054-1.064	1590	79.6											
13C-PCB-123	4.56e+07	1.64	y	0.95	41:28	1.054	1.049-1.059	1570	78.5											
13C-PCB-126	5.24e+07	1.58	y	1.16	45:24	0.977	0.972-0.982	1690	84.6											
13C-PCB-127	6.53e+07	1.54	y	1.34	43:30	0.936	0.931-0.941	1830	91.4											
13C-PCB-138	5.04e+07	1.26	y	1.04	44:54	0.966	0.961-0.971	1810	90.7											
13C-PCB-141	5.01e+07	1.26	y	1.07	44:03	0.948	0.943-0.953	1760	87.8											
13C-PCB-153	5.76e+07	1.26	y	1.11	43:19	0.932	0.927-0.937	1940	97.1											
13C-PCB-155	2.73e+07	1.29	y	0.83	37:08	0.944	0.939-0.949	1070	53.7											
13C-PCB-156	5.76e+07	1.27	y	1.24	48:11	1.037	1.032-1.042	1740	87.0											
13C-PCB-157	6.24e+07	1.32	y	1.31	48:27	1.043	1.037-1.047	1790	89.4											
13C-PCB-159	5.76e+07	1.30	y	1.20	46:12	0.994	0.989-0.999	1800	90.2											
13C-PCB-167	6.27e+07	1.27	y	1.32	46:52	1.009	1.004-1.014	1780	89.1											
13C-PCB-169	5.11e+07	1.27	y	1.22	50:35	1.089	1.082-1.092	1580	79.0											
13C-PCB-170	2.06e+07	0.47	y	0.54	50:57	1.096	1.089-1.101	1450	72.3											
13C-PCB-180	2.90e+07	0.46	y	0.67	49:28	1.065	1.059-1.069	1620	80.9											
13C-PCB-188	4.16e+07	0.47	y	0.94	42:57	0.924	0.919-0.929	1670	83.6											
13C-PCB-189	2.85e+07	0.46	y	0.72	52:27	1.129	1.120-1.132	1490	74.7											
13C-PCB-194	2.59e+07	0.91	y	0.81	53:57	0.995	0.990-1.000	1710	85.4											
13C-PCB-202	2.75e+07	0.91	y	0.83	48:23	1.041	1.036-1.046	1240	62.1											
13C-PCB-206	2.63e+07	0.78	y	0.66	55:36	1.025	1.021-1.031	2130	107											
13C-PCB-208	4.53e+07	0.77	y	1.12	53:13	0.981	0.976-0.986	2160	108											
13C-PCB-209	2.31e+07	1.20	y	0.61	56:57	1.050	1.044-1.054	2020	101											

Analyst: DMS

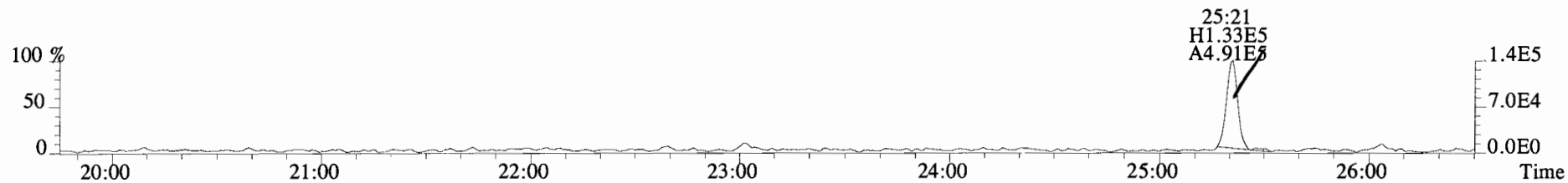
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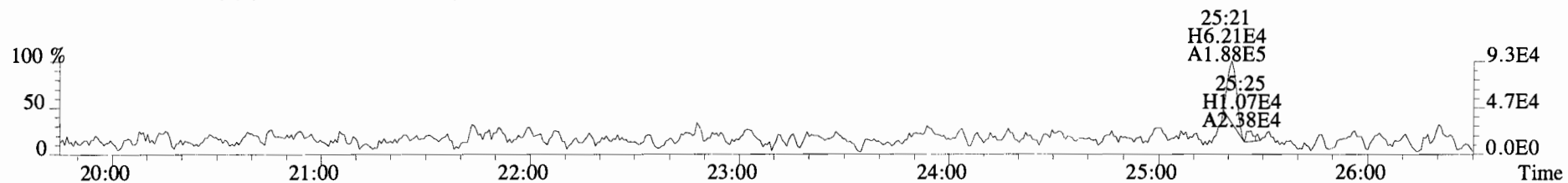
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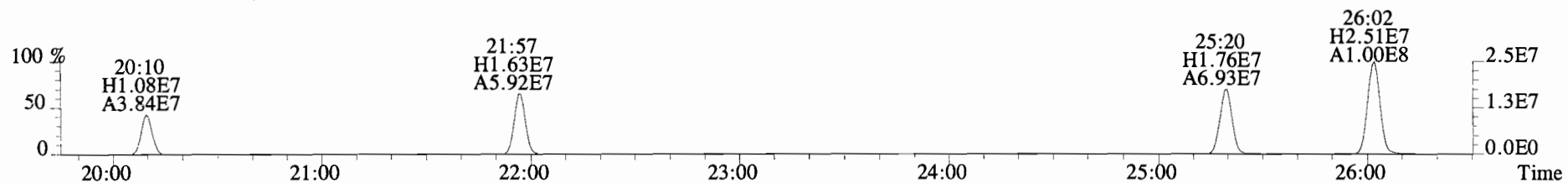
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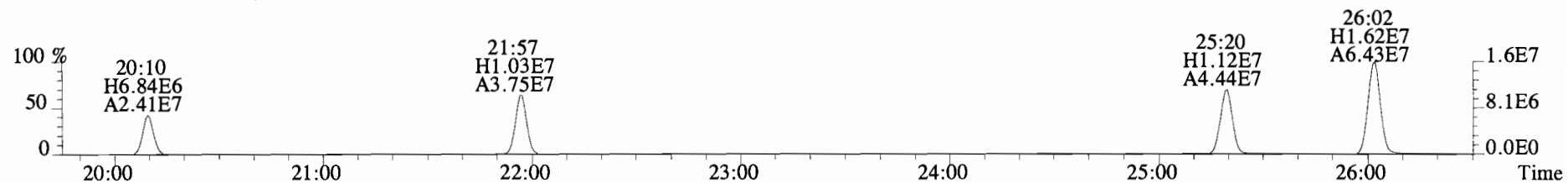
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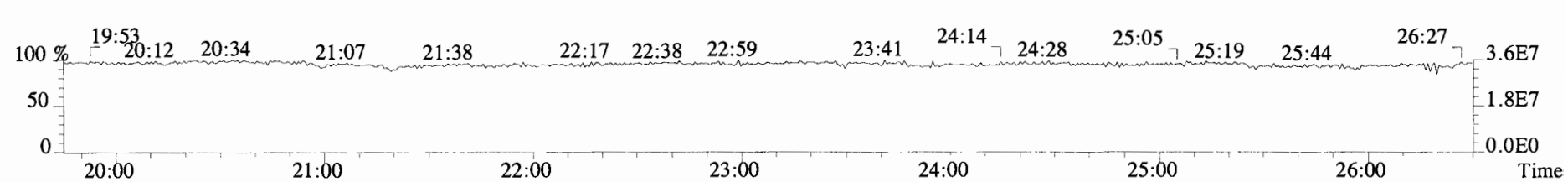
234.0406 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5792.0,0.00%,F,F)



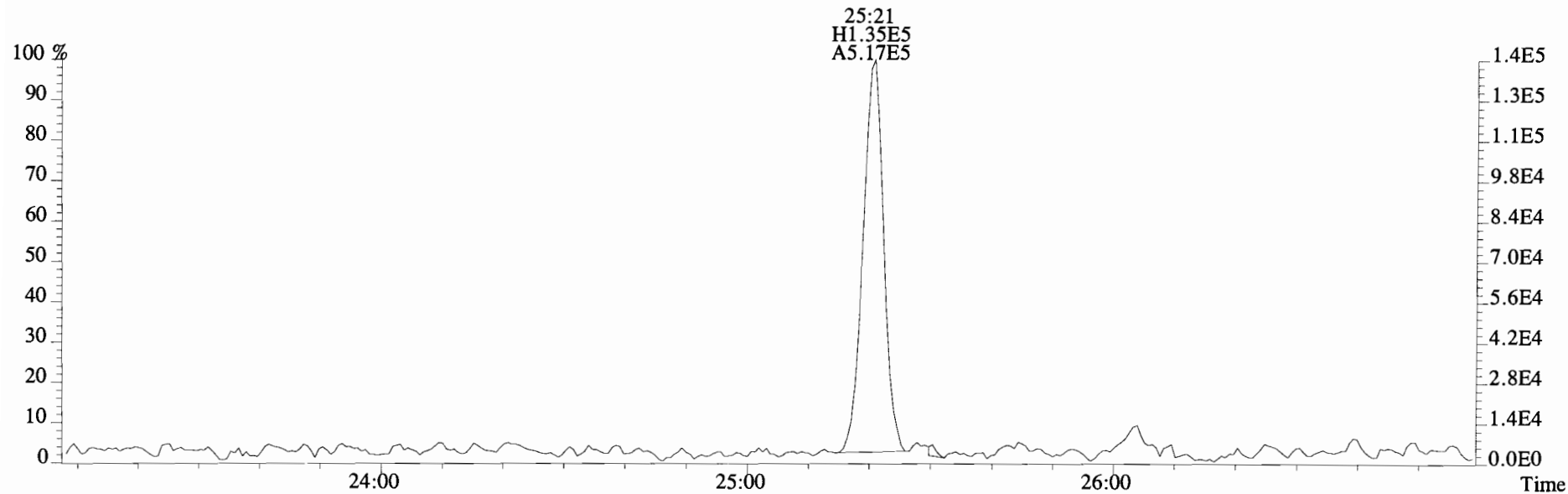
236.0376 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4608.0,0.00%,F,F)



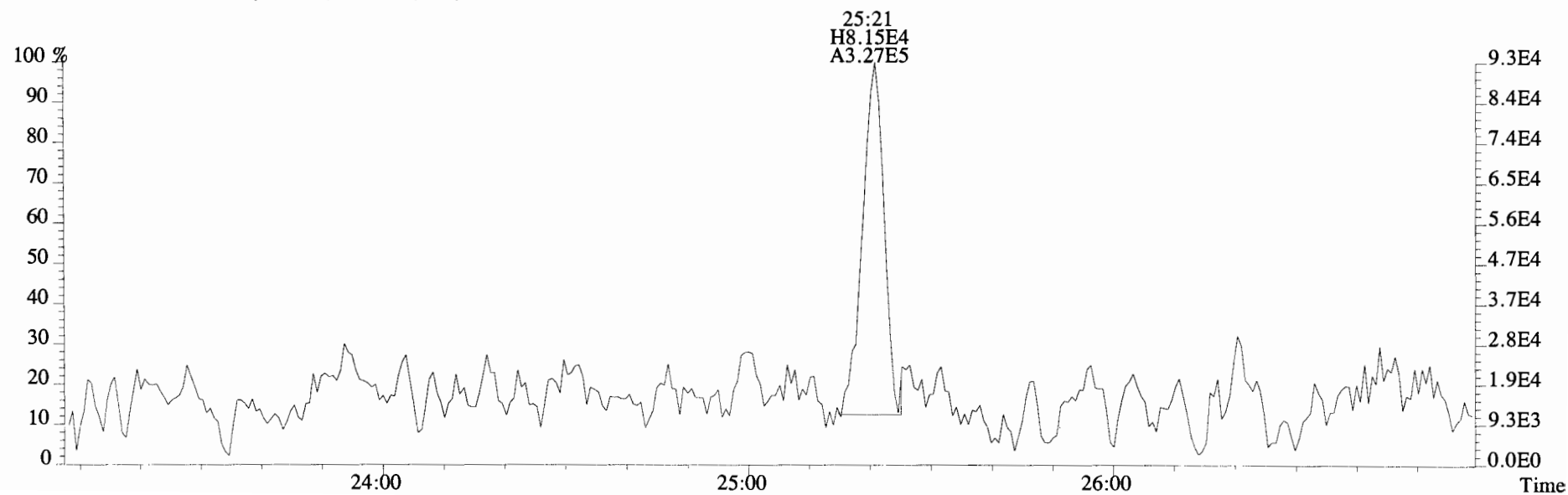
230.9856 S:6 F:2



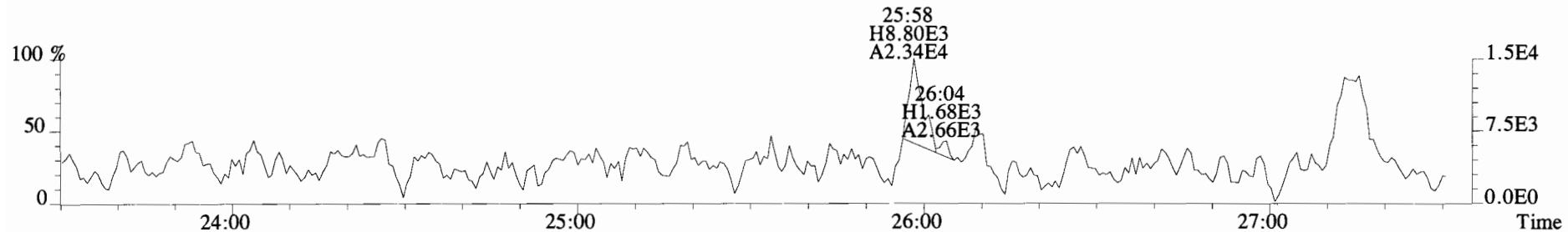
File:140925E1 #1-758 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0)



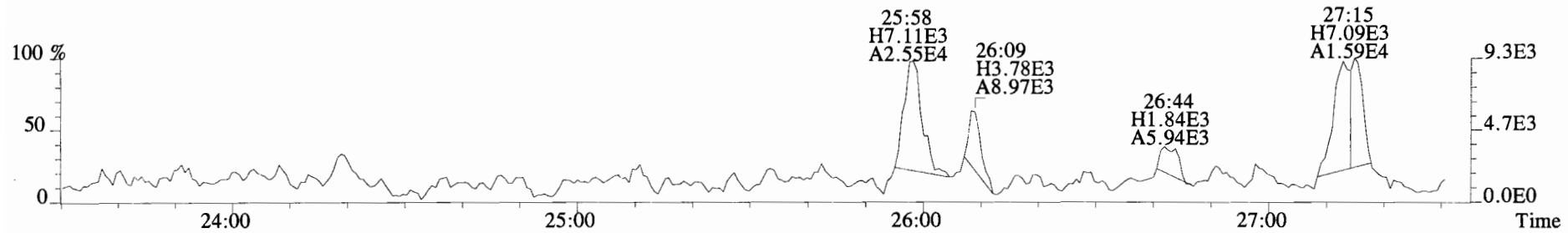
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0)



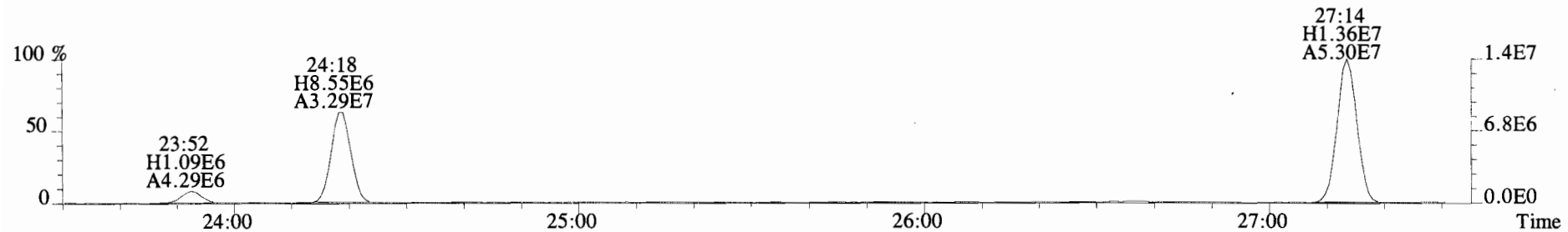
File:140925E1 #1-758 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5048.0,0.00%,F,F)



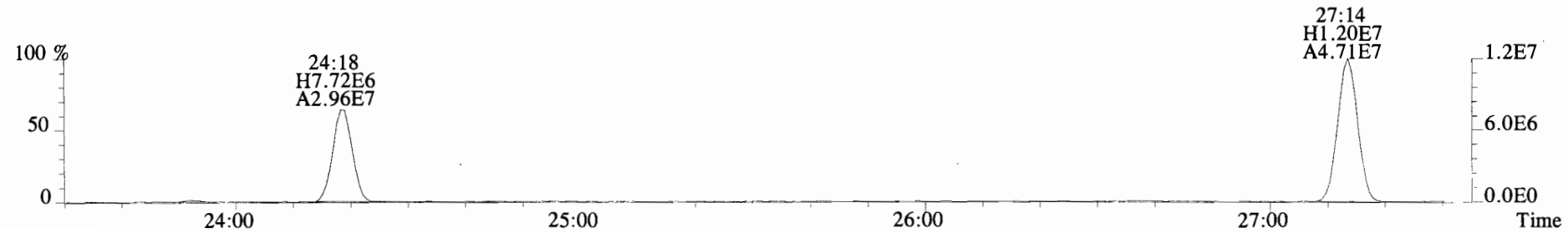
257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)



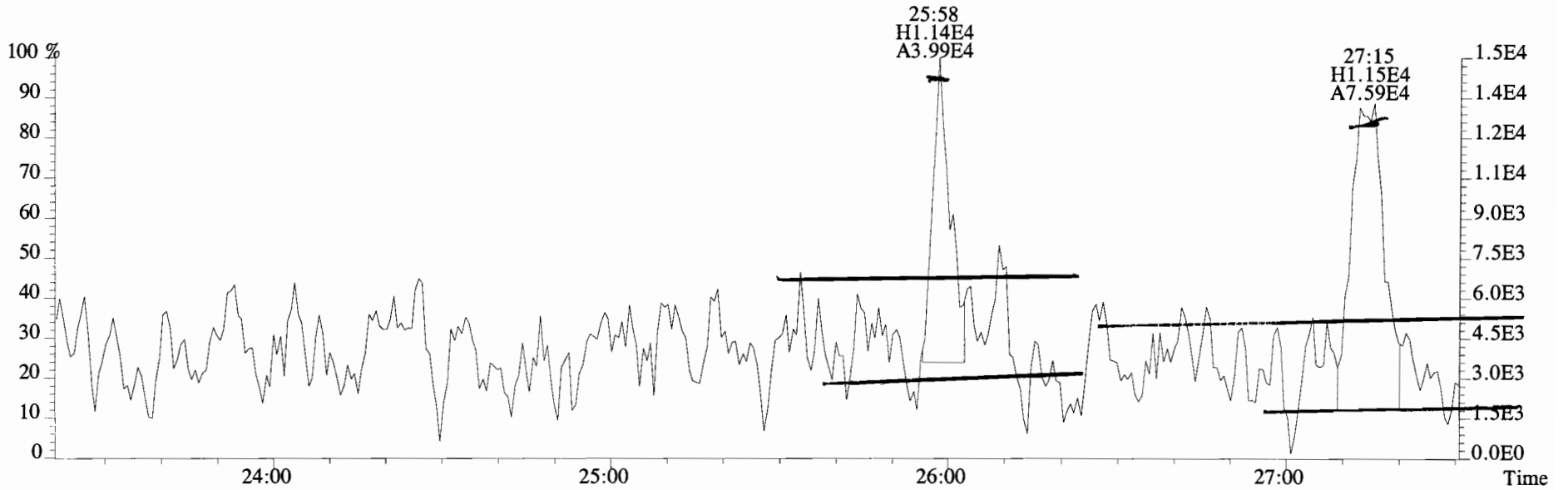
268.0016 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50308.0,0.00%,F,F)



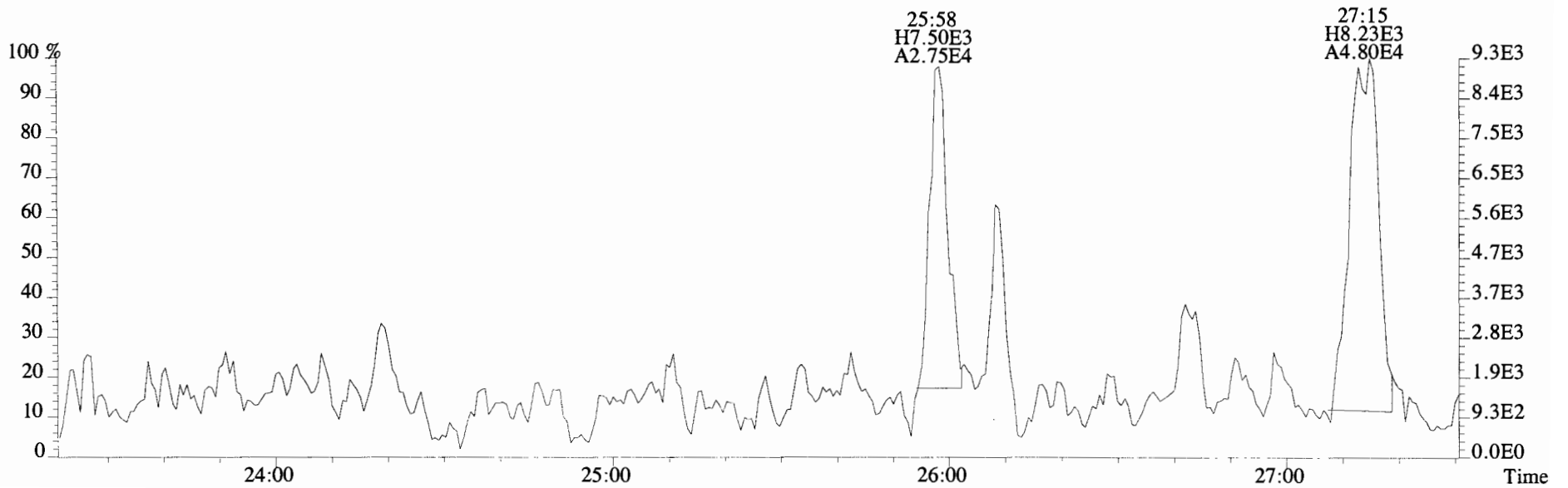
269.9986 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32564.0,0.00%,F,F)



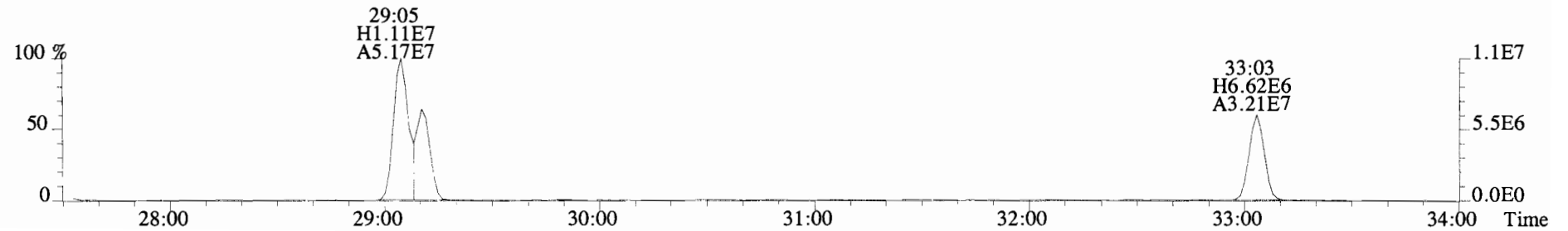
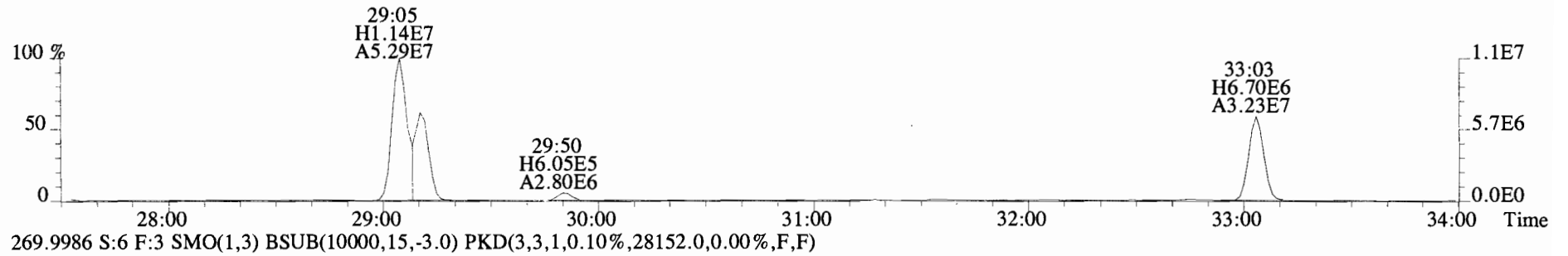
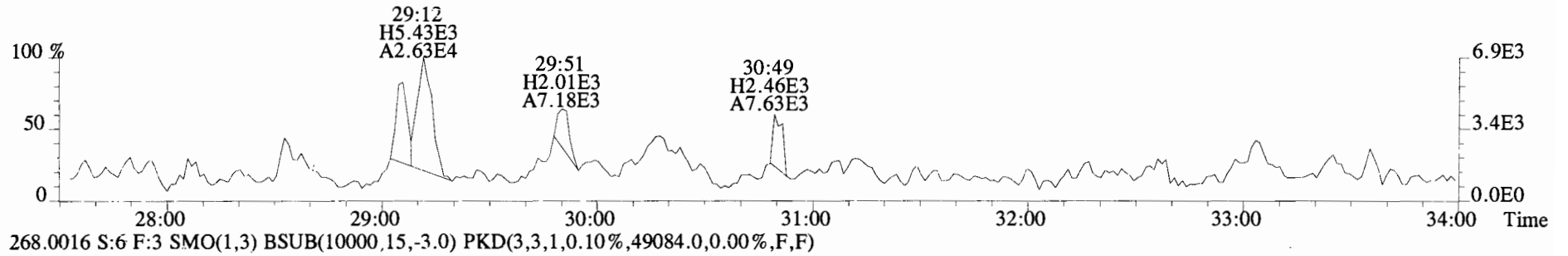
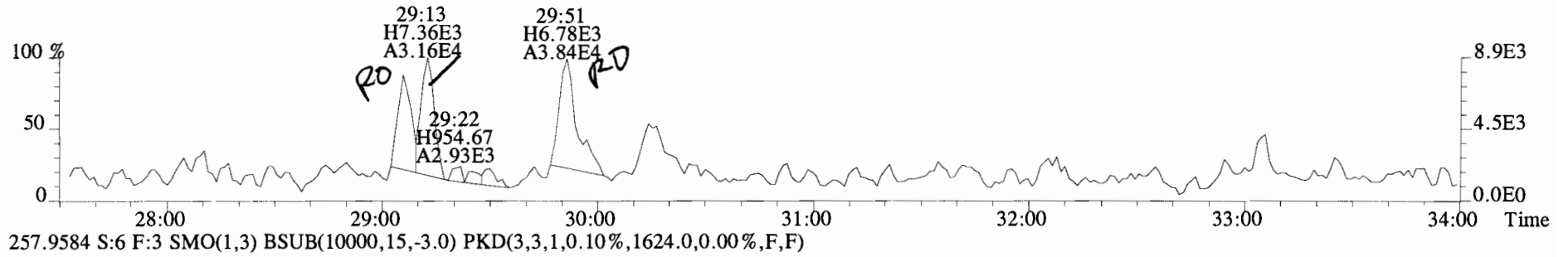
File:140925E1 #1-758 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5048.0,0.00%,F,F)



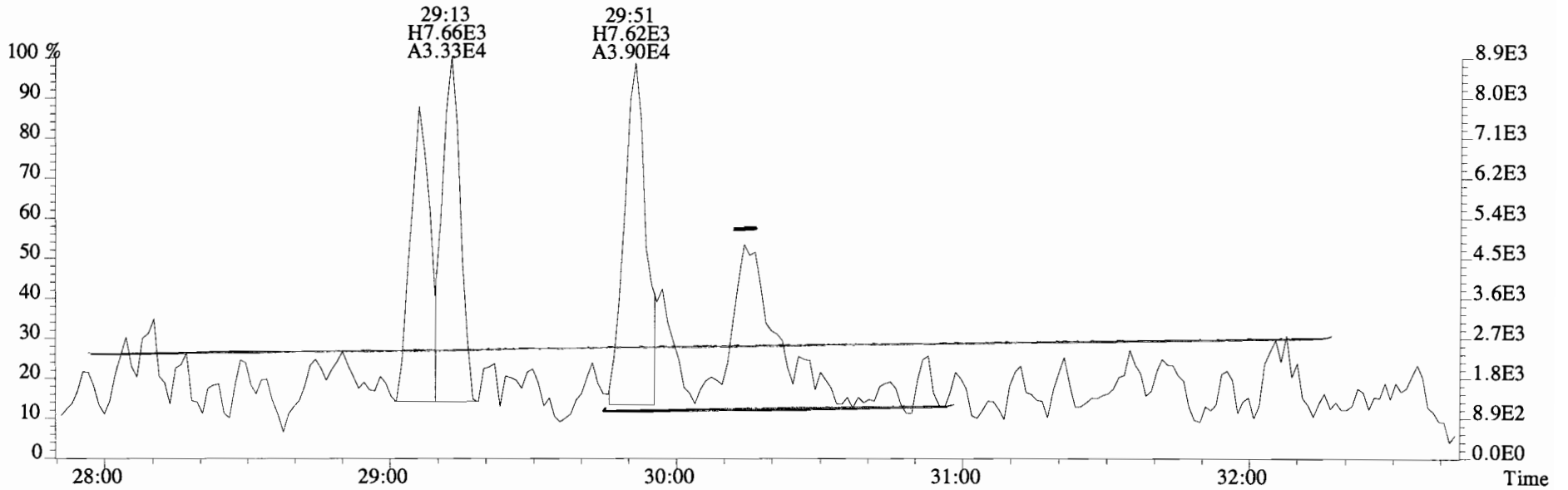
257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)



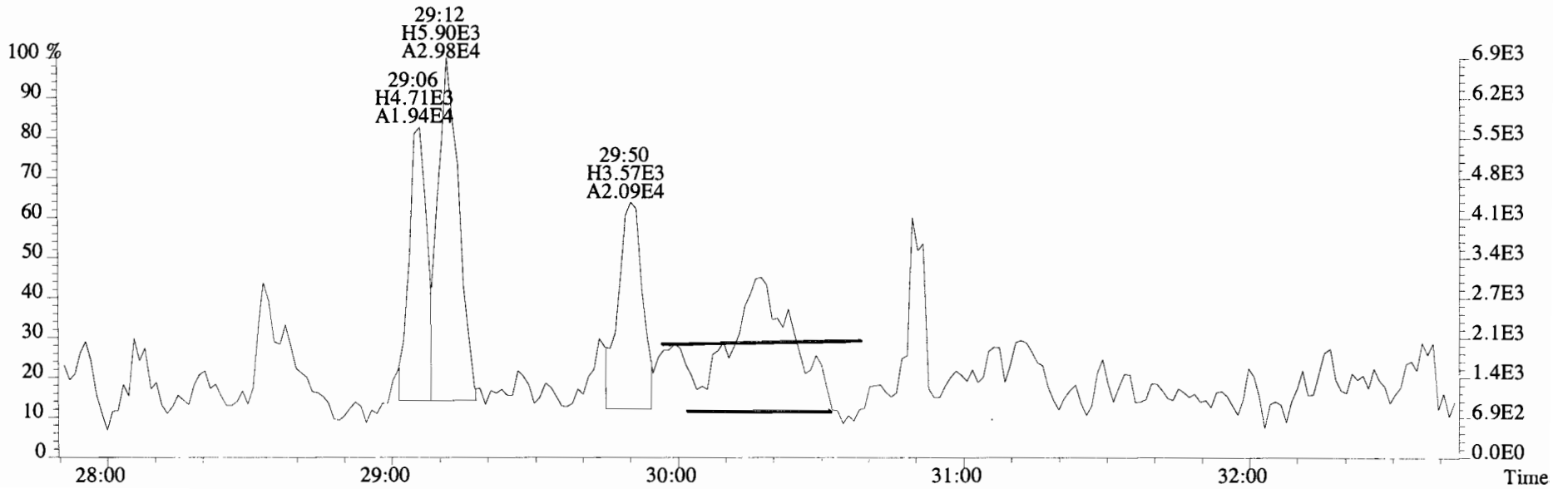
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2028.0,0.00%,F,F)



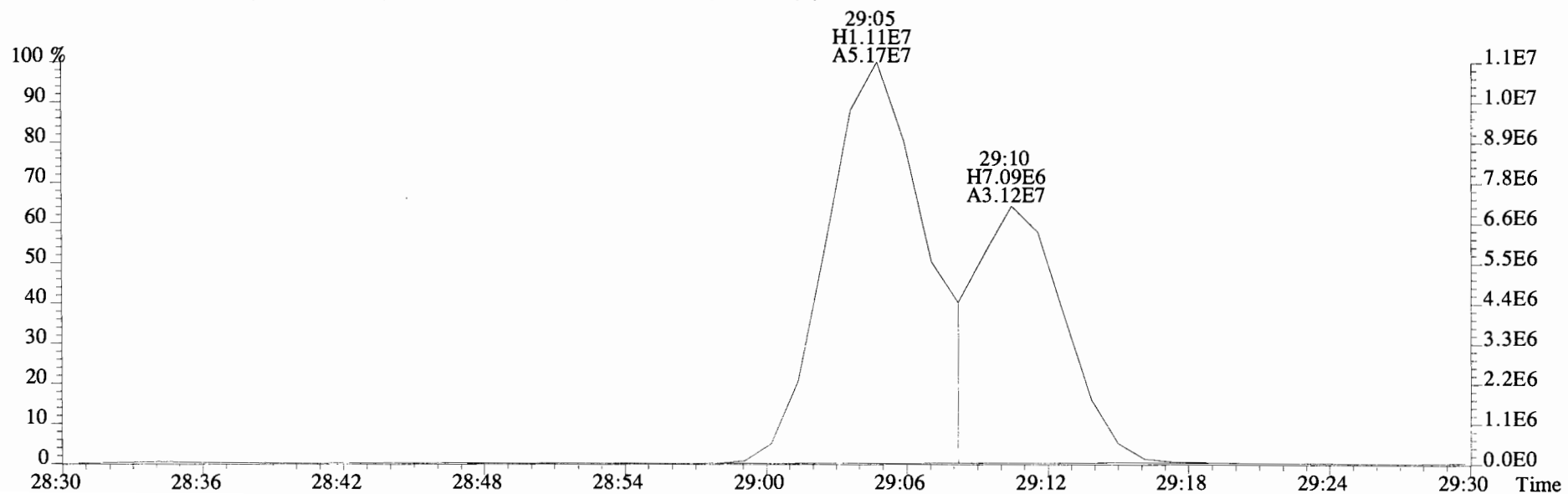
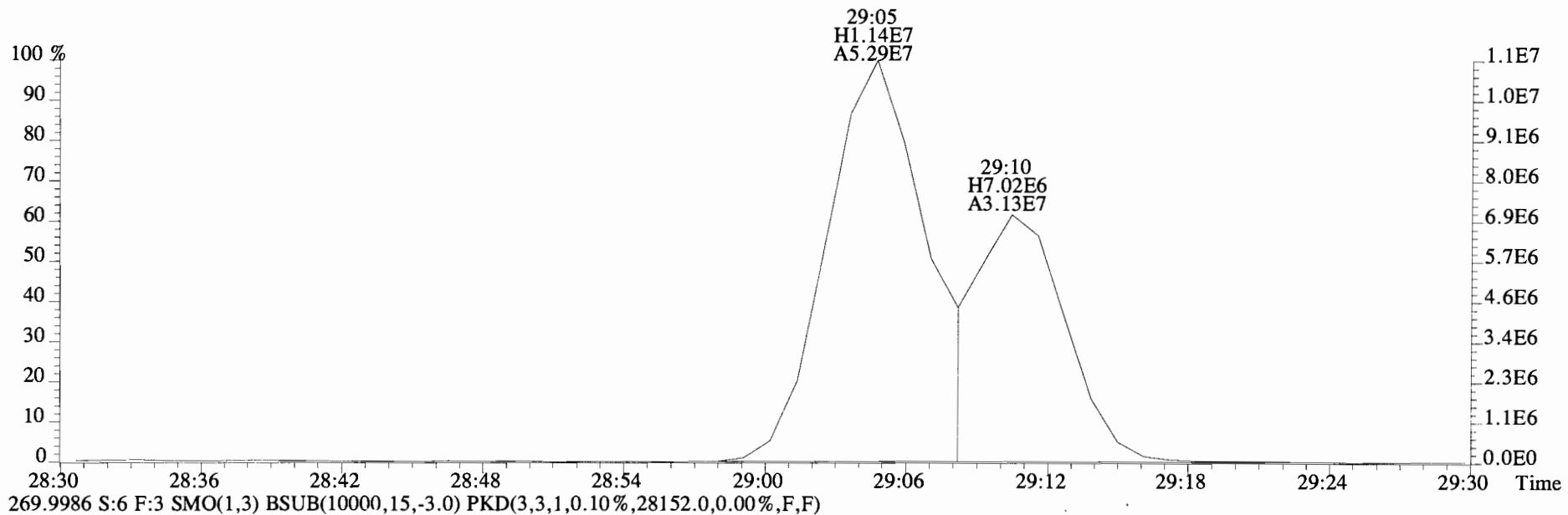
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
 255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2028.0,0.00%,F,F)



257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)

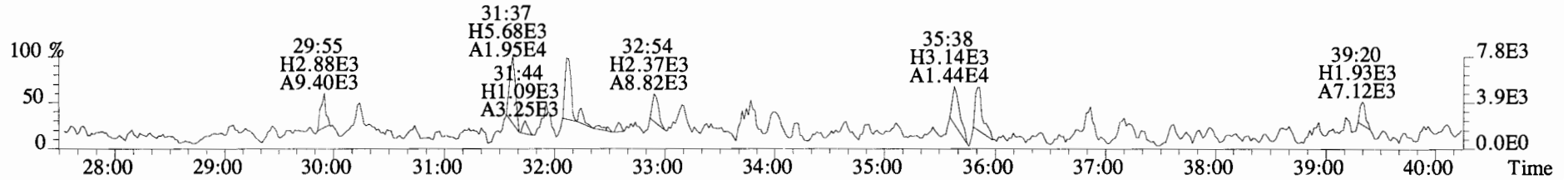


File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,49084.0,0.00%,F,F)

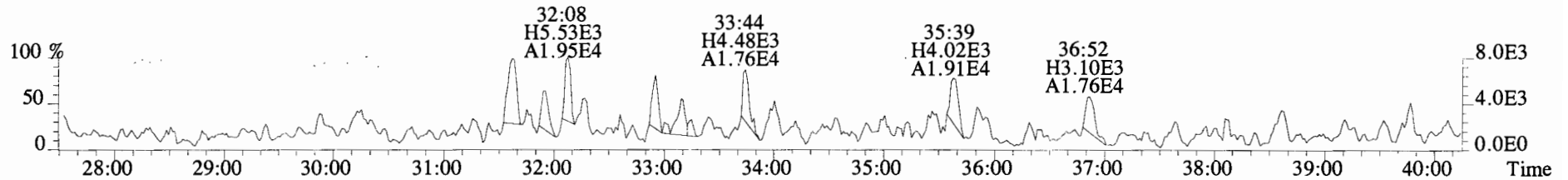




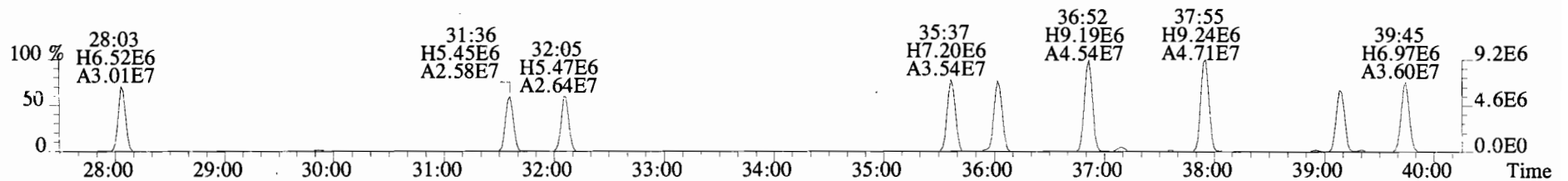
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



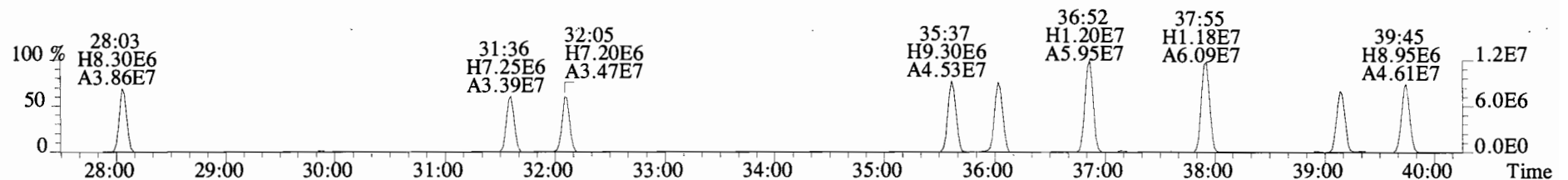
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



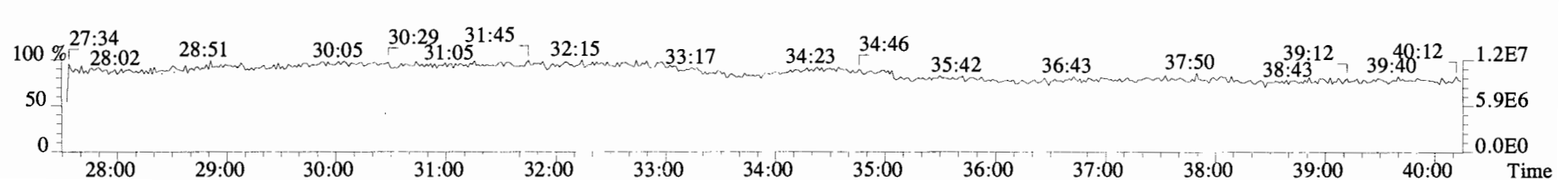
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8272.0,0.00%,F,F)



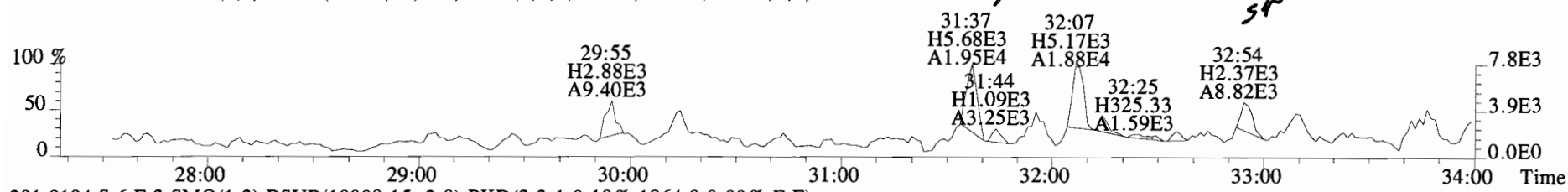
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6476.0,0.00%,F,F)



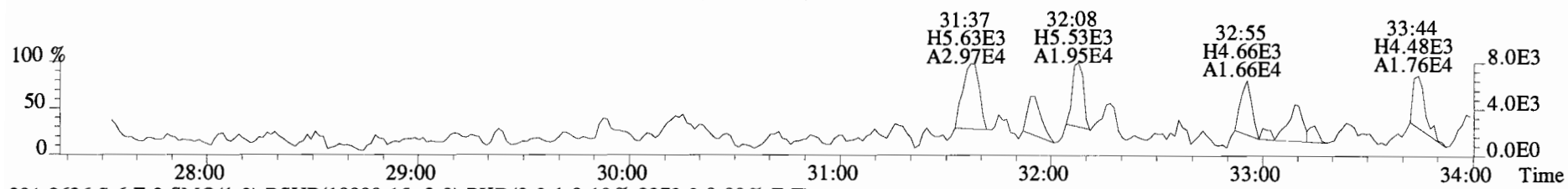
330.9792 S:6 F:3



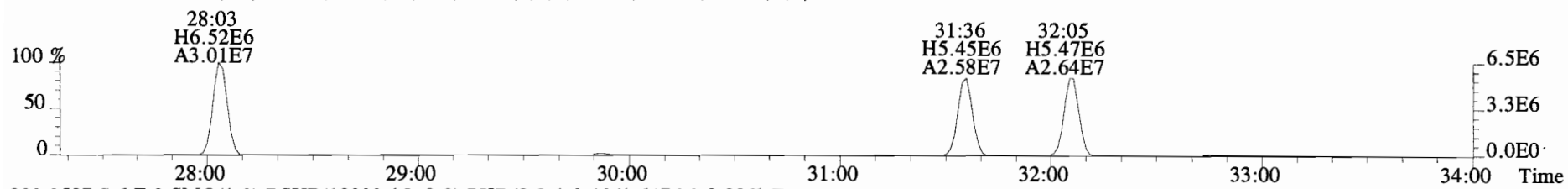
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B410067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



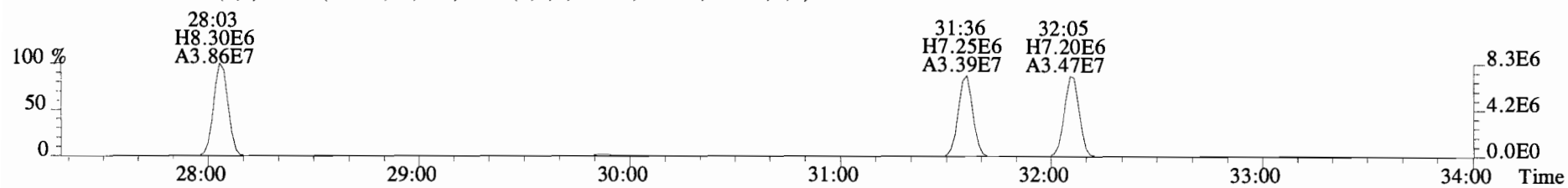
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



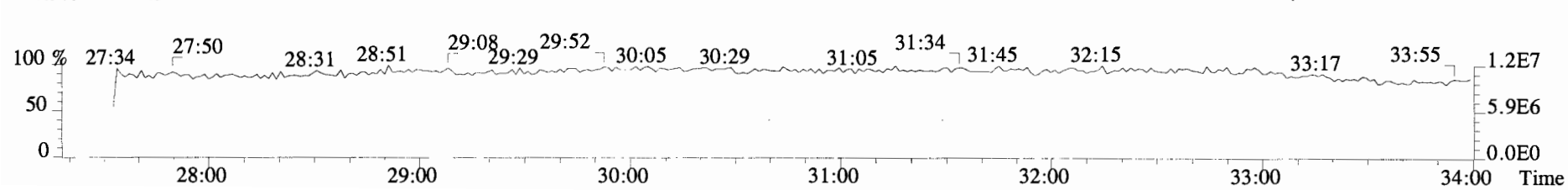
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8272.0,0.00%,F,F)



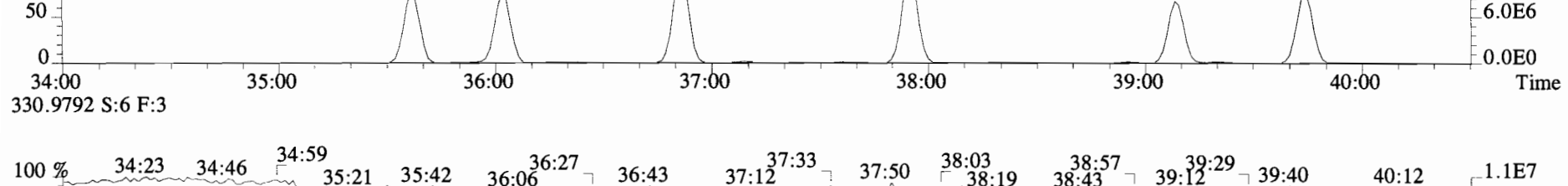
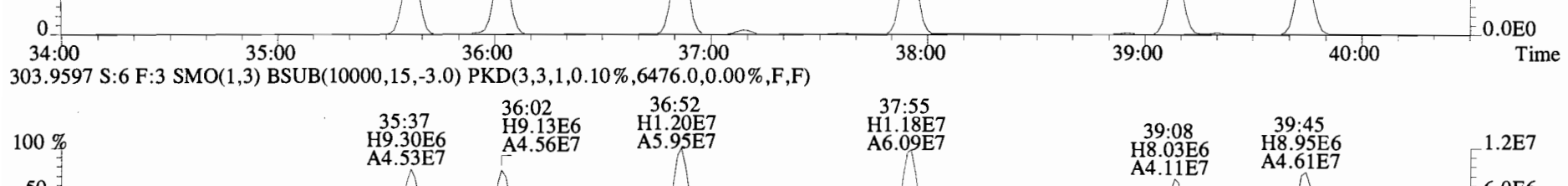
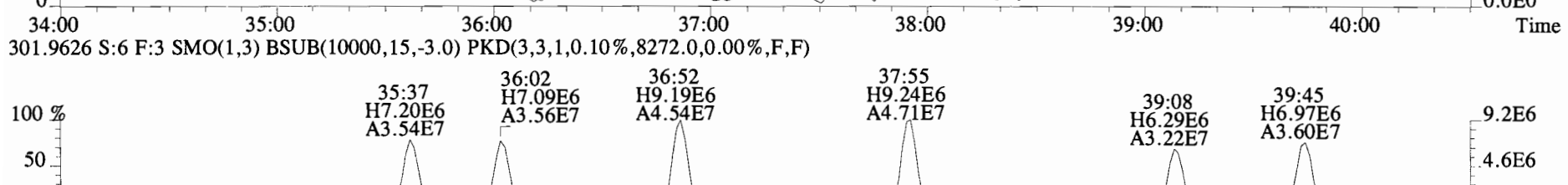
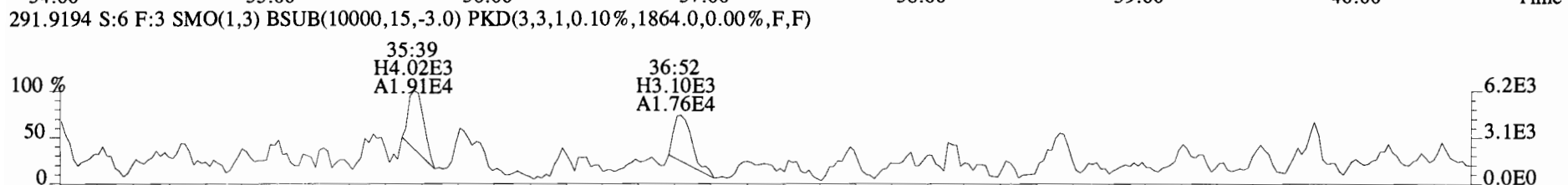
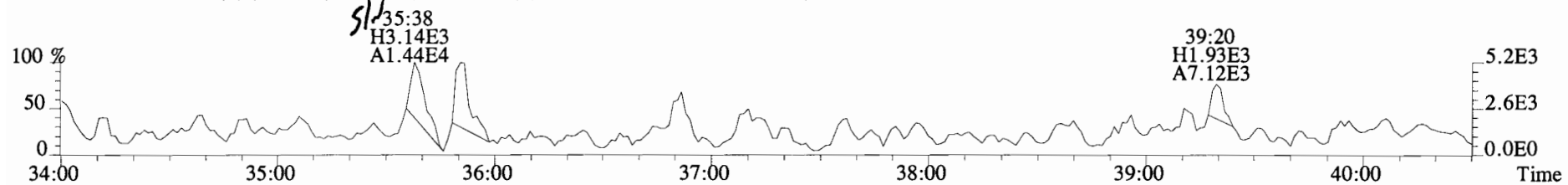
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6476.0,0.00%,F,F)



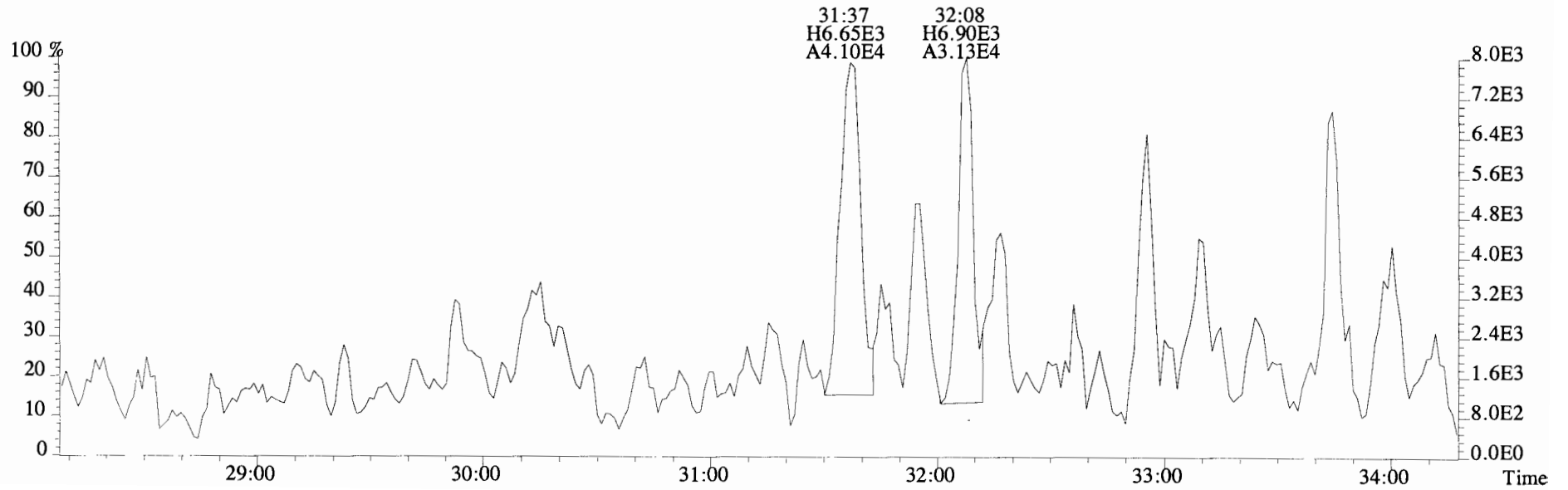
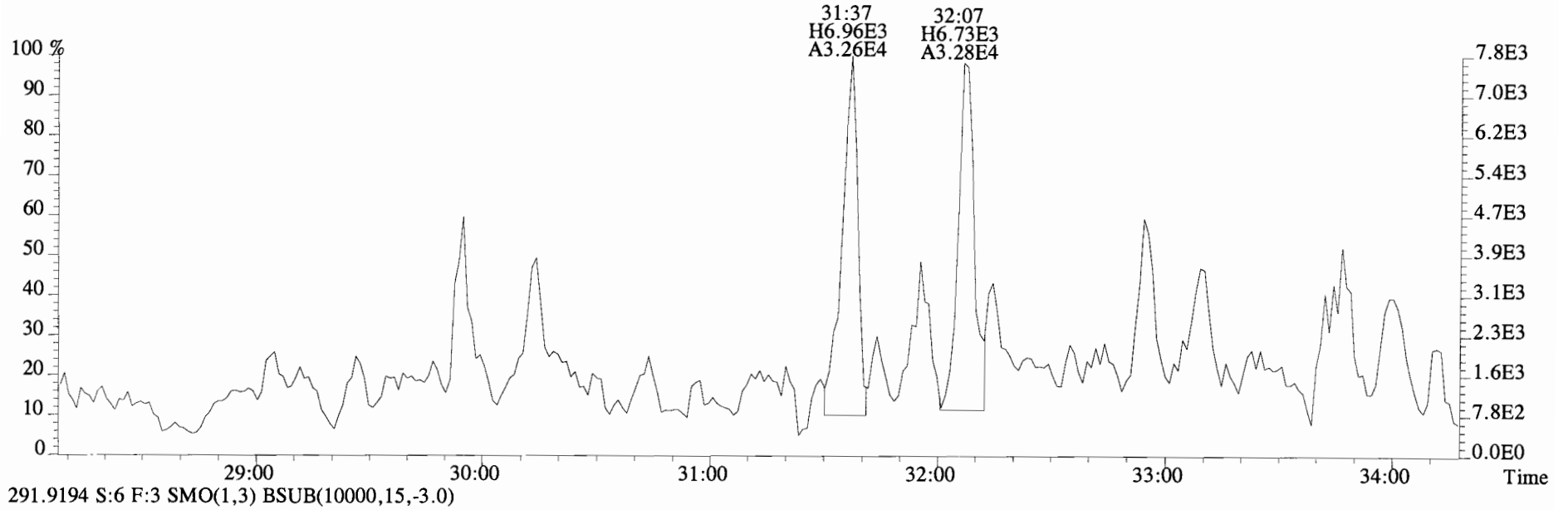
330.9792 S:6 F:3



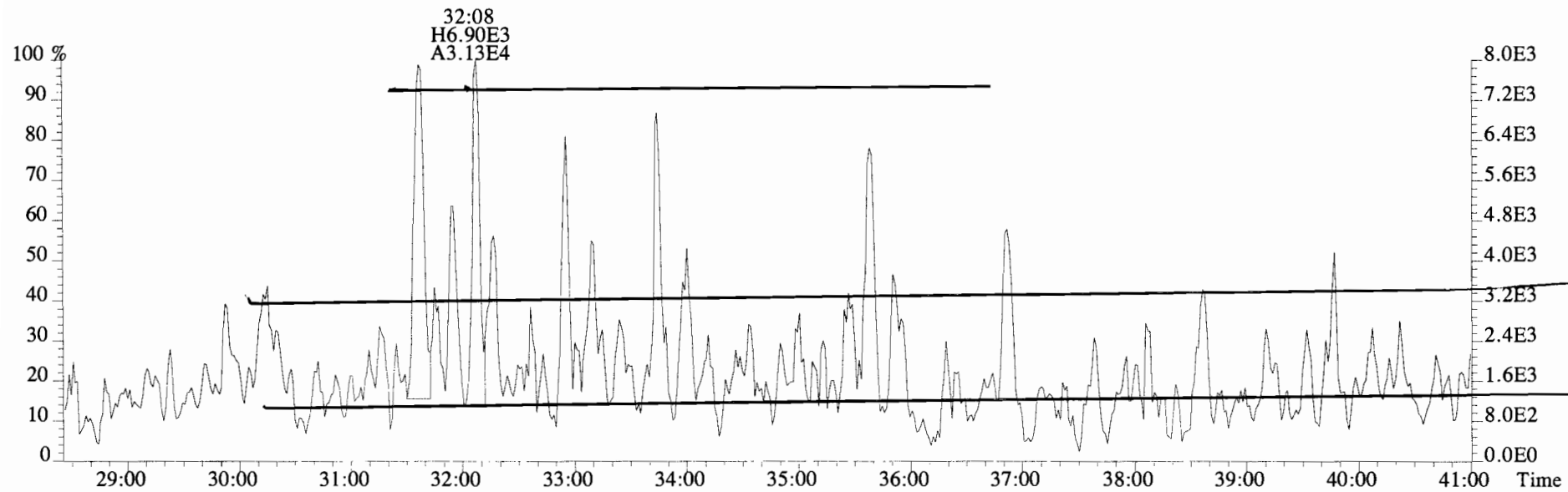
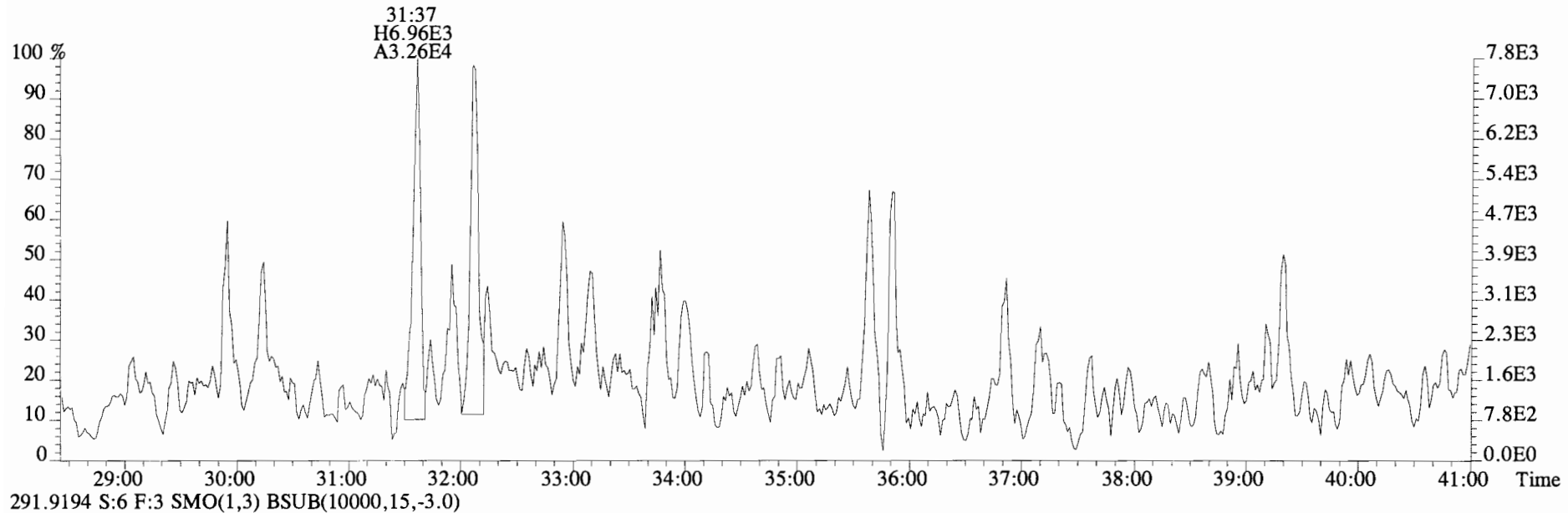
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



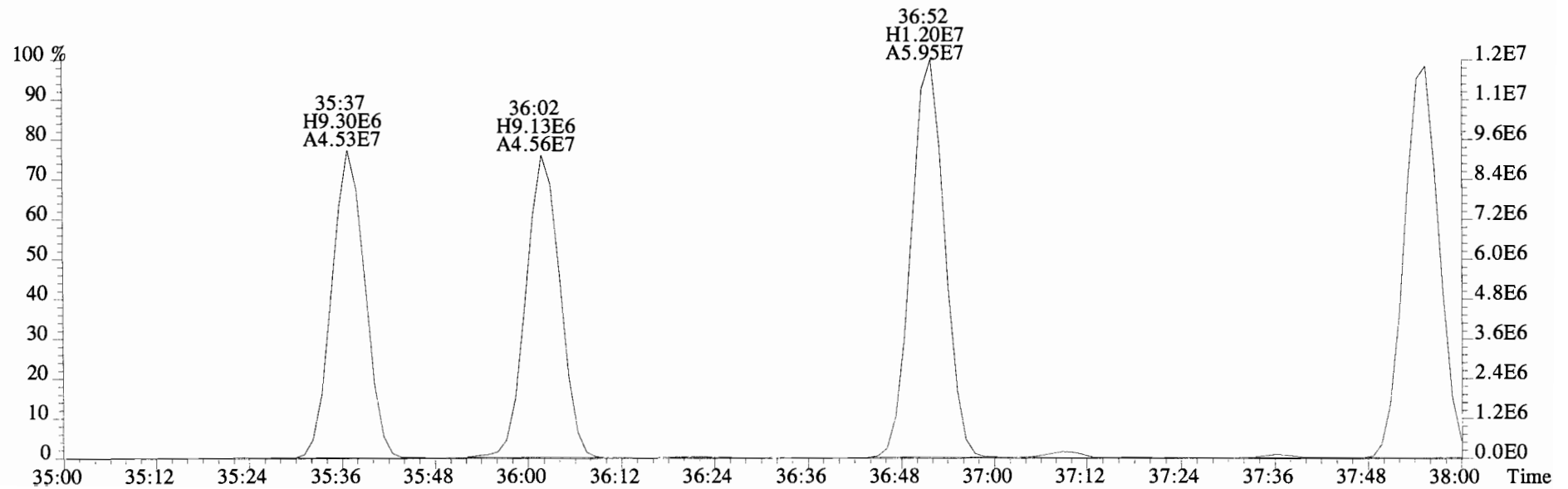
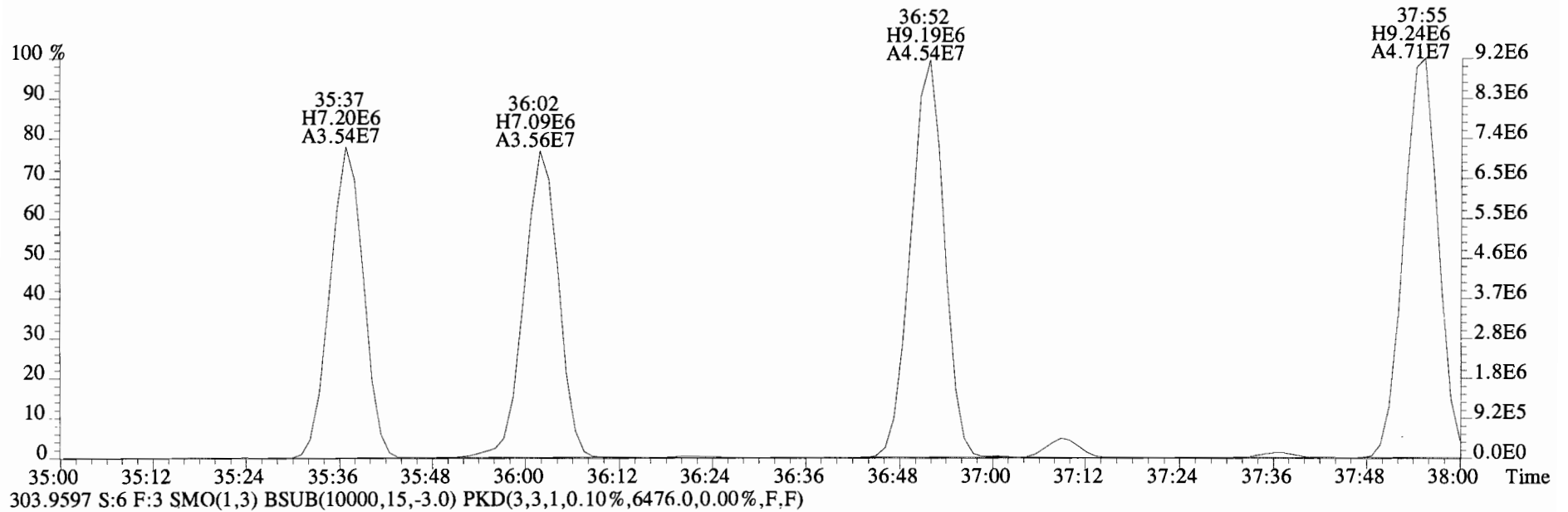
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



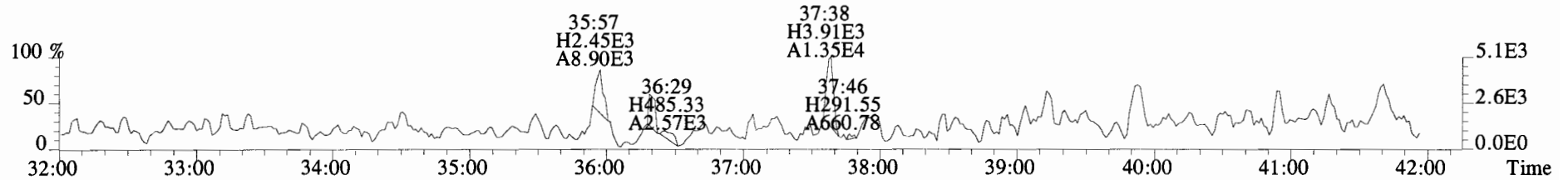
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0)



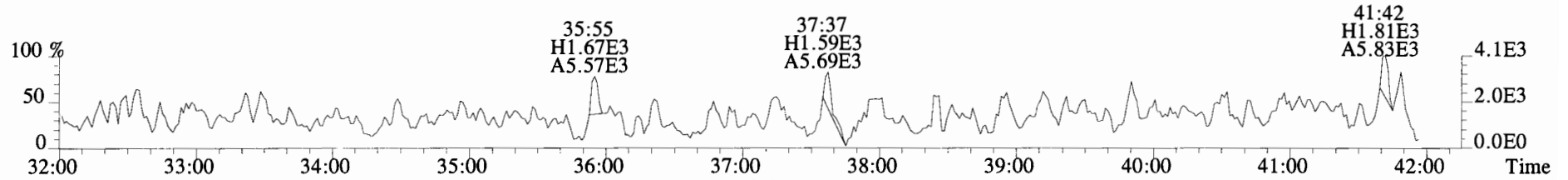
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8272.0,0.00%,F,F)



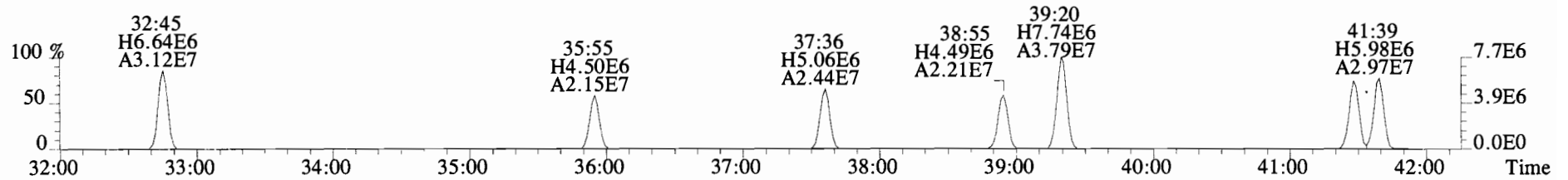
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)



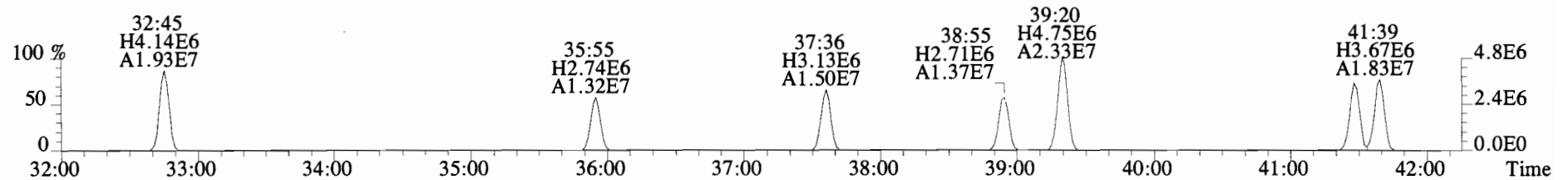
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



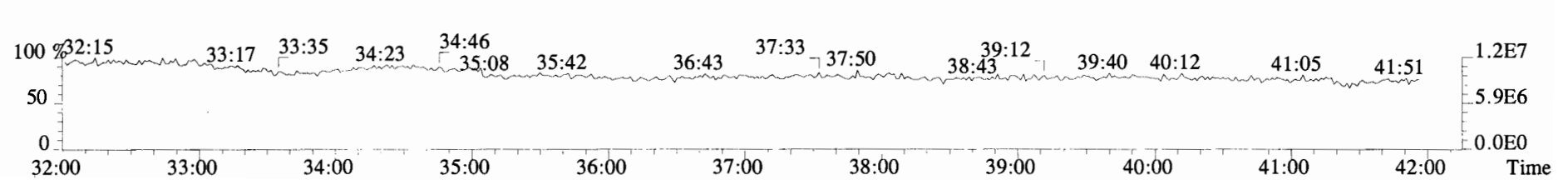
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2164.0,0.00%,F,F)



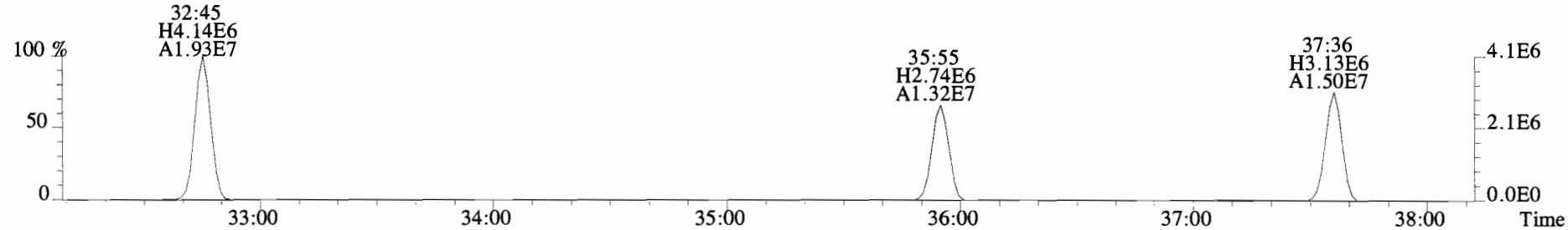
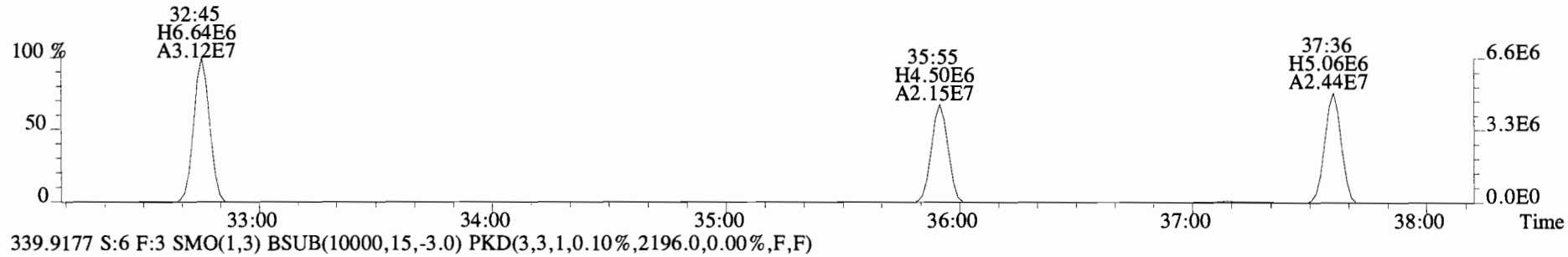
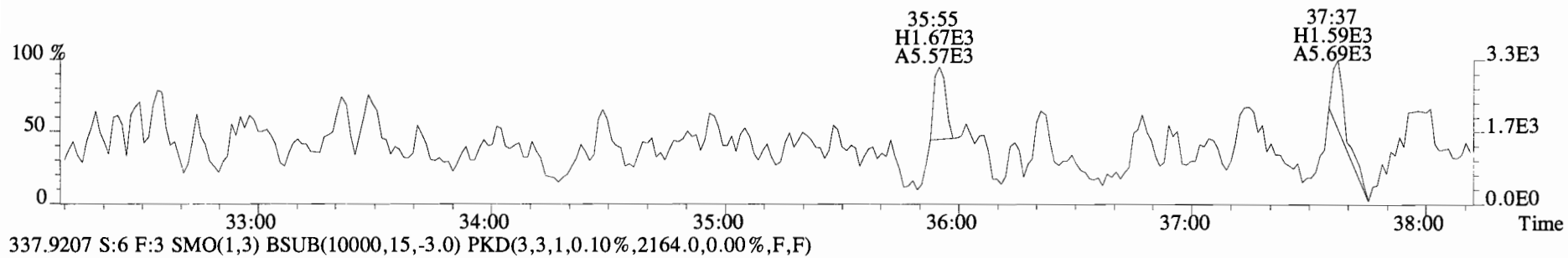
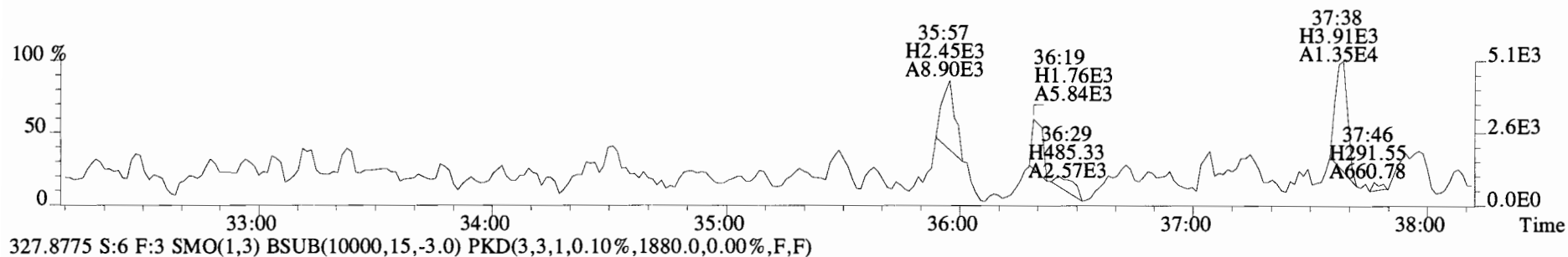
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2196.0,0.00%,F,F)



330.9792 S:6 F:3

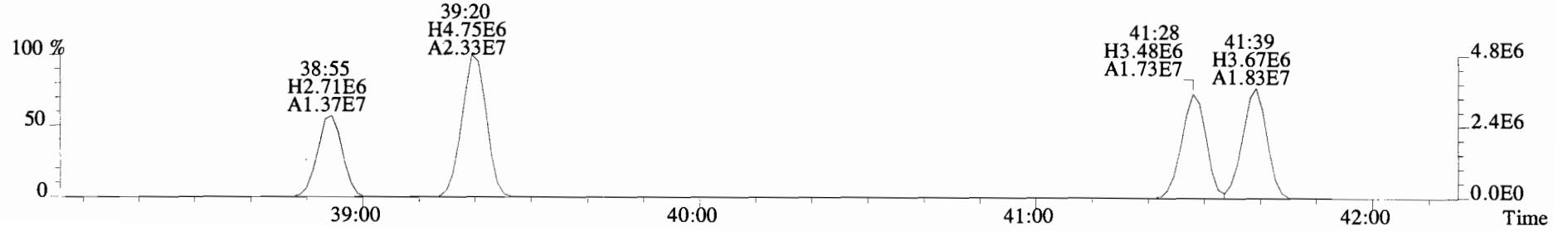
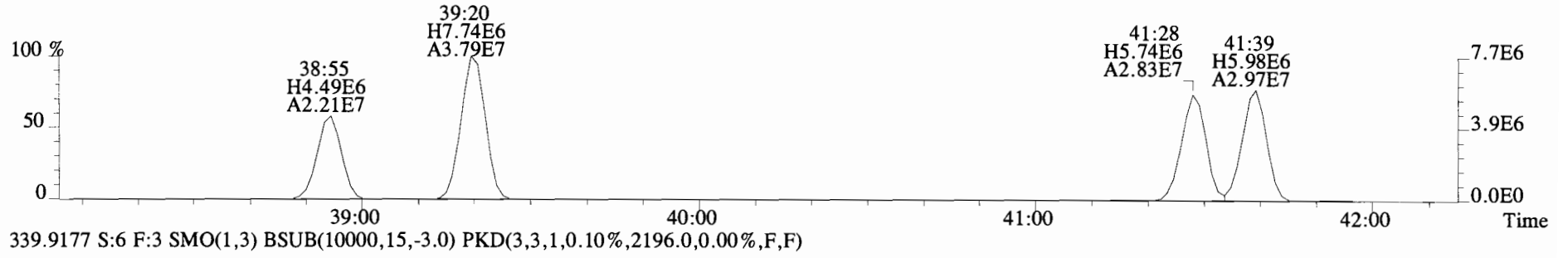
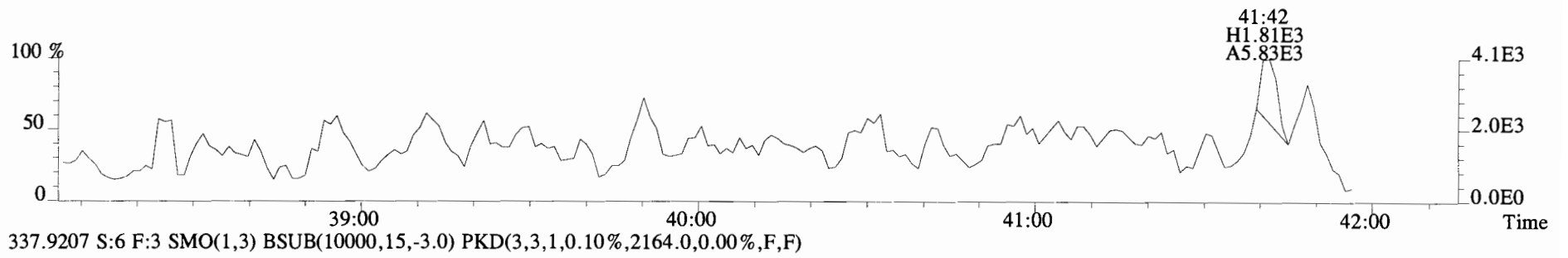
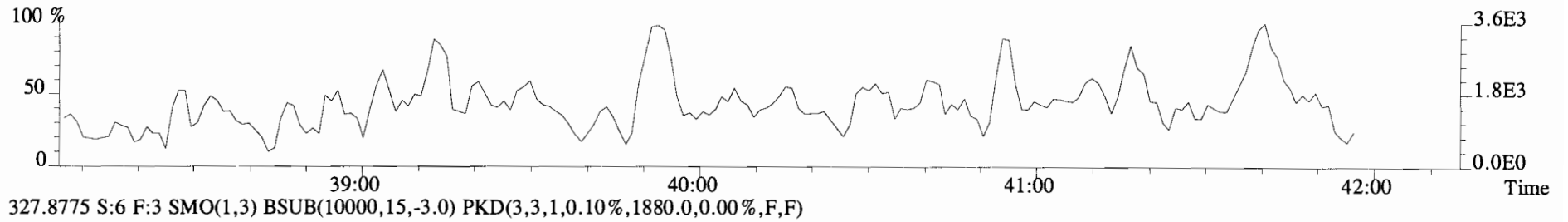


File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)

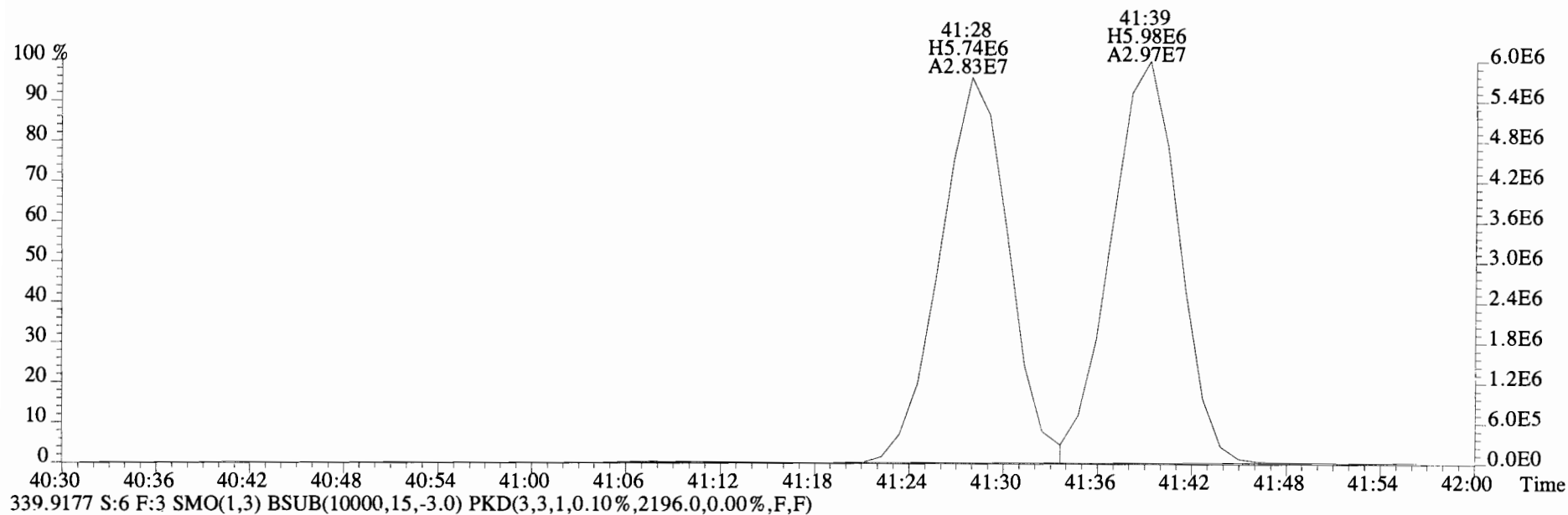




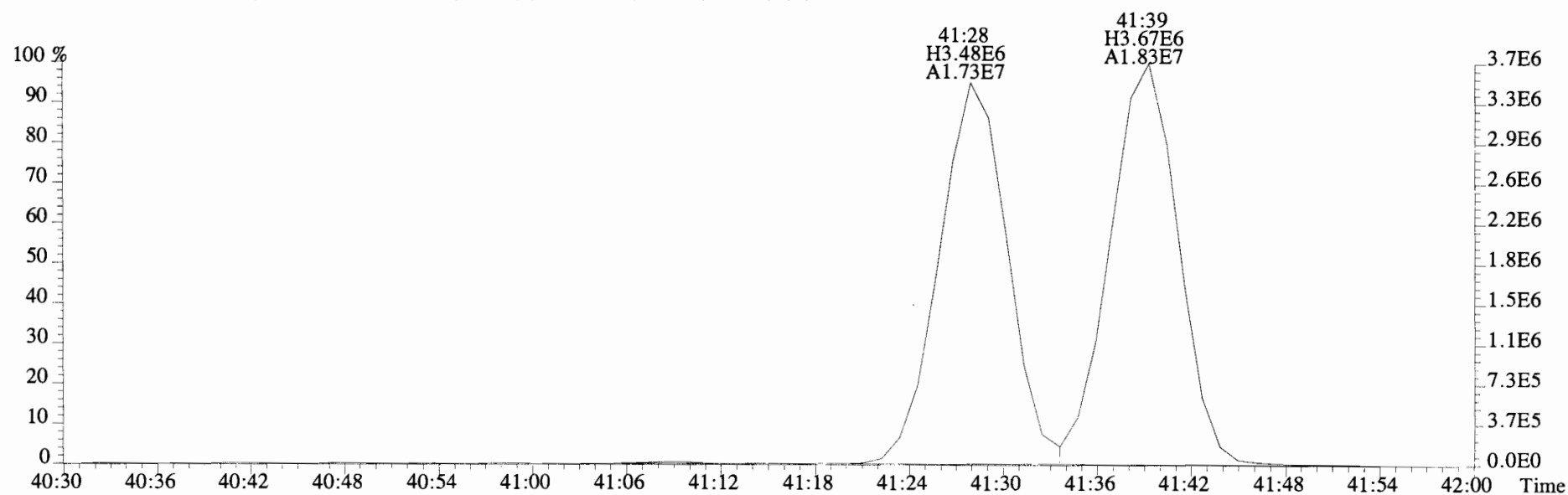
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)



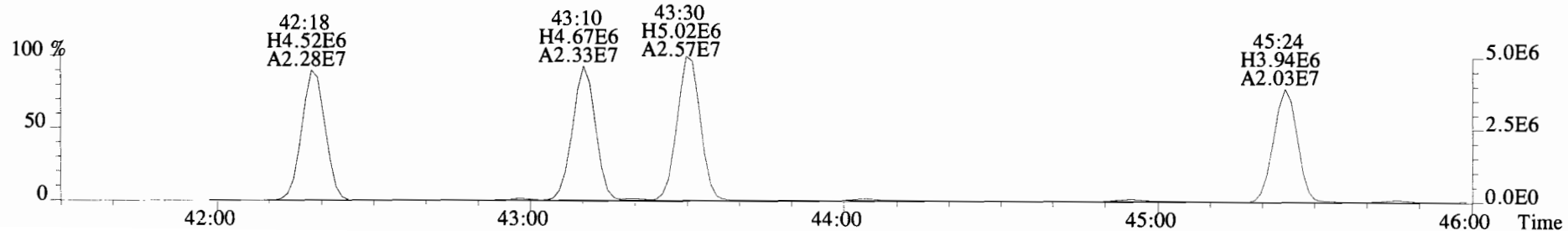
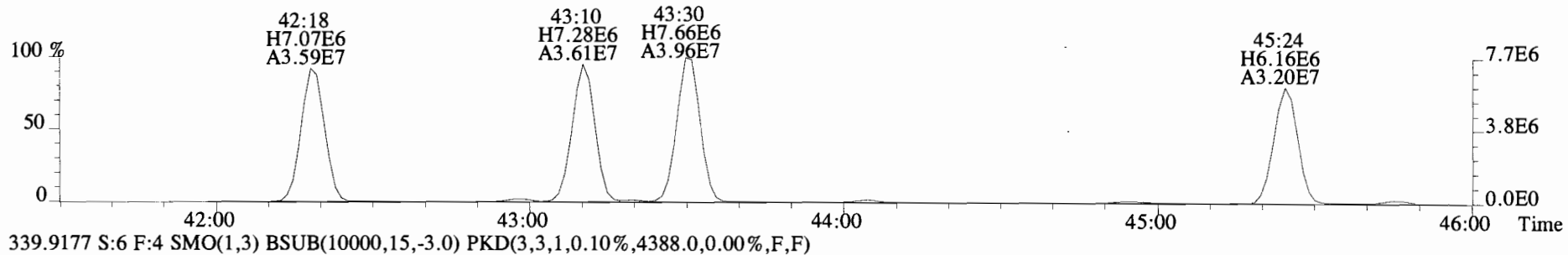
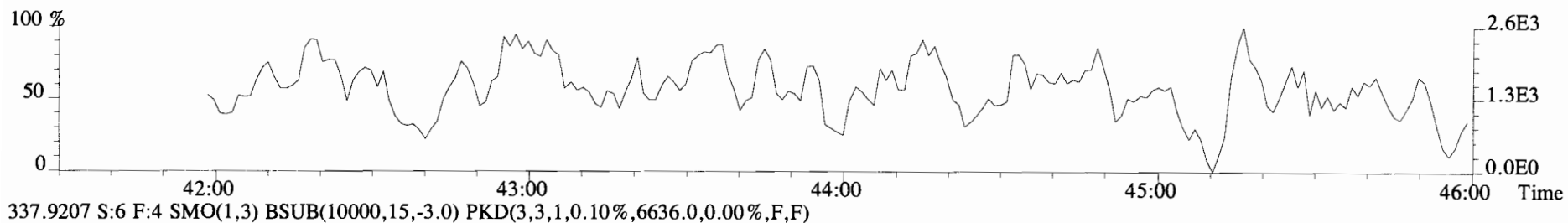
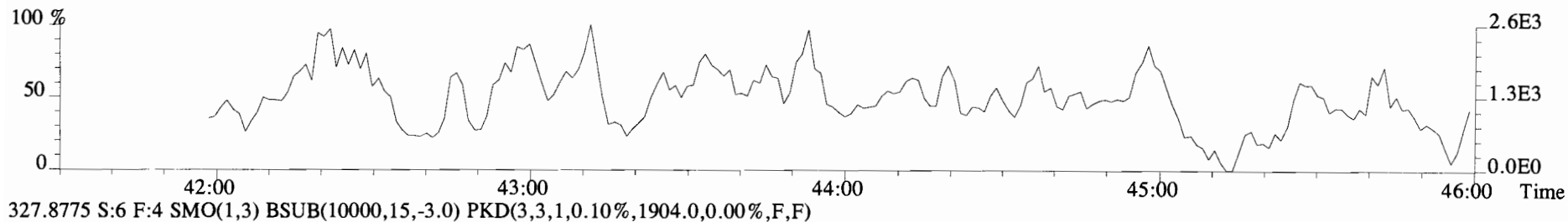
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2164.0,0.00%,F,F)



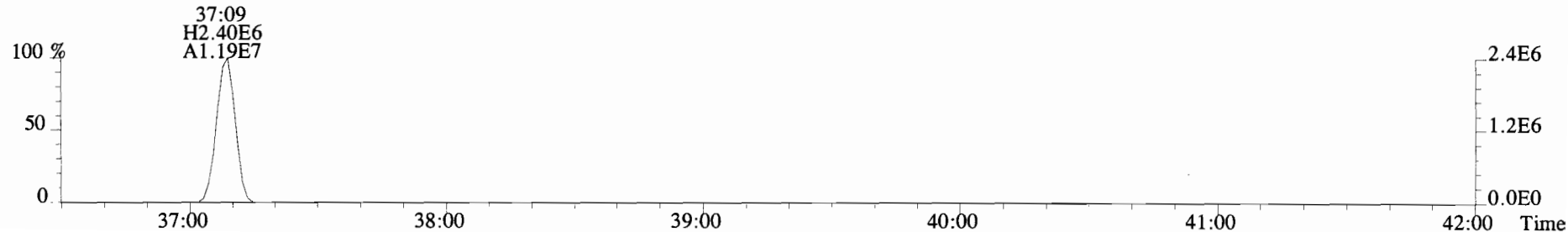
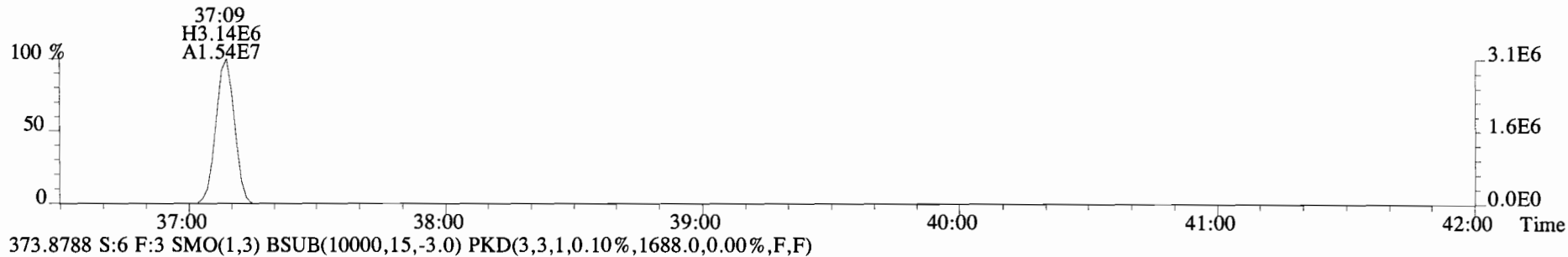
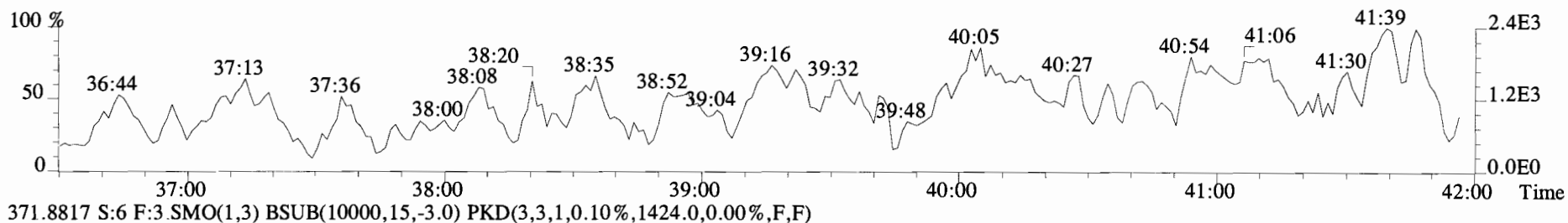
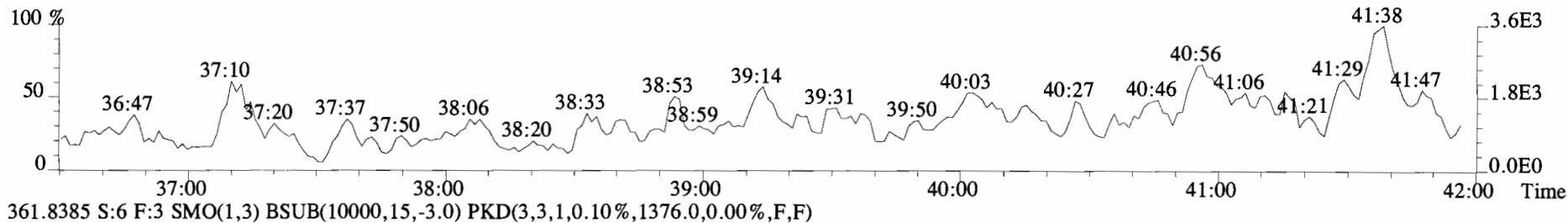
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2196.0,0.00%,F,F)



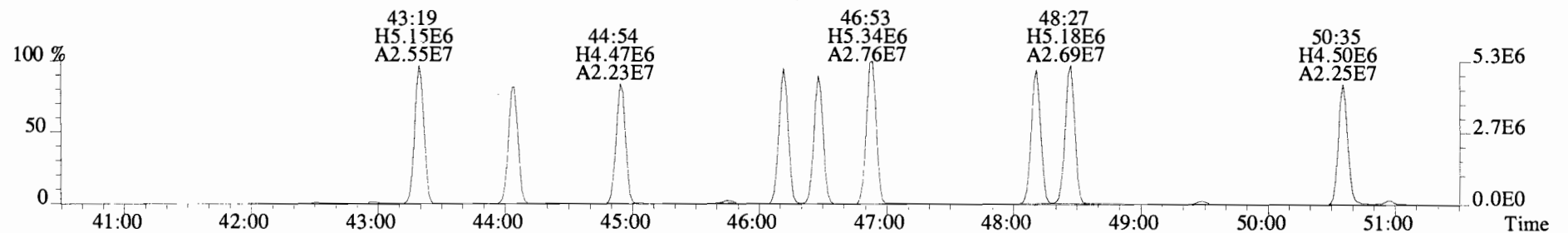
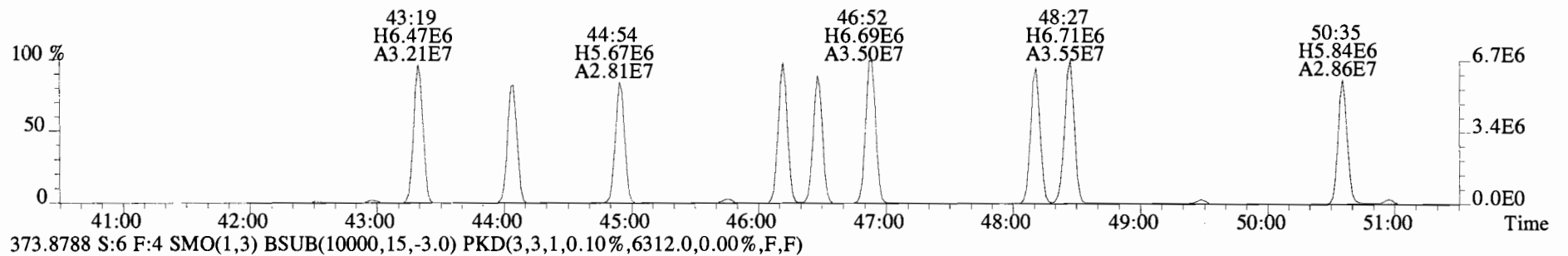
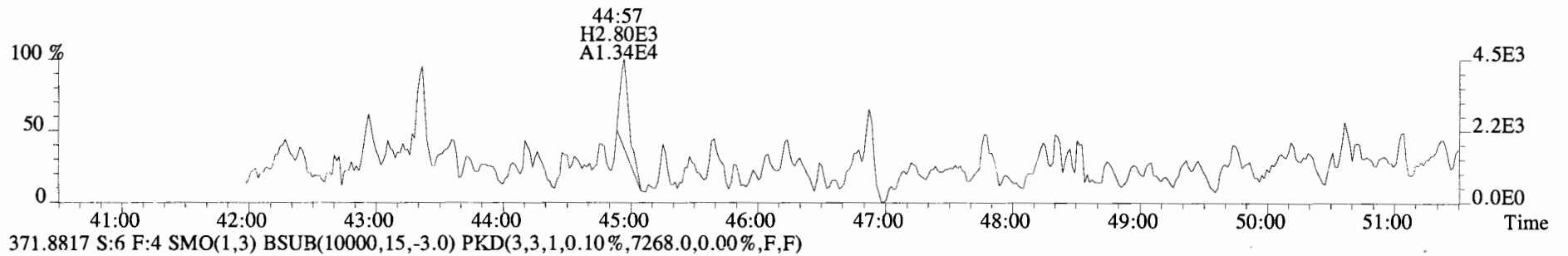
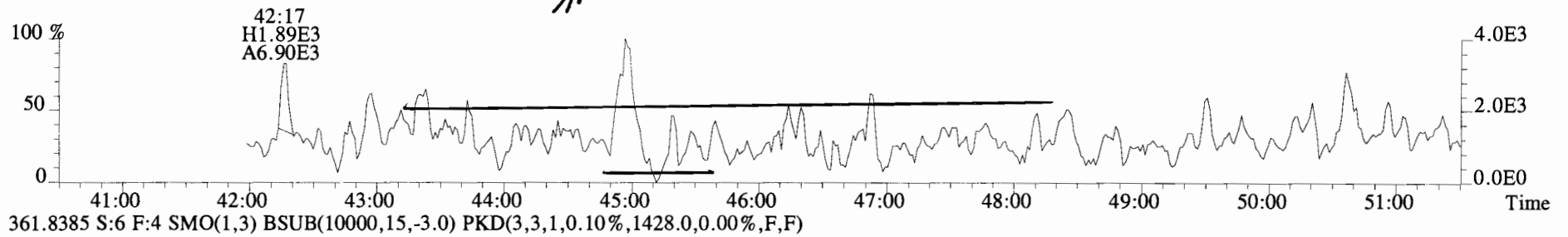
File:140925E1 #1-561 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1724.0,0.00%,F,F)



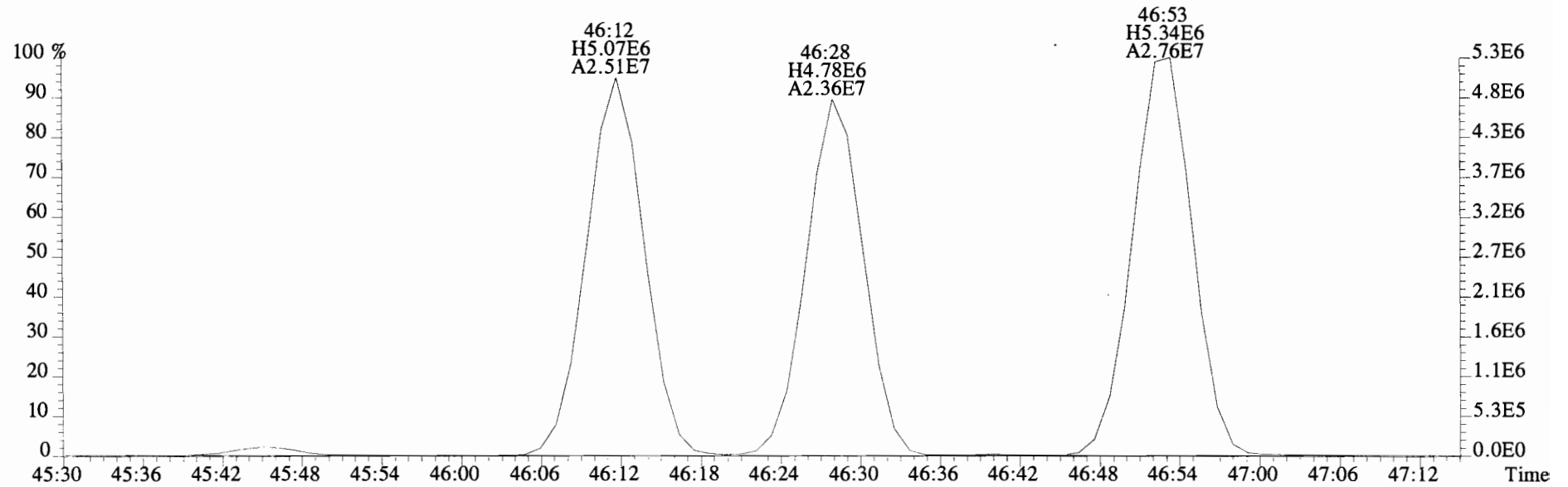
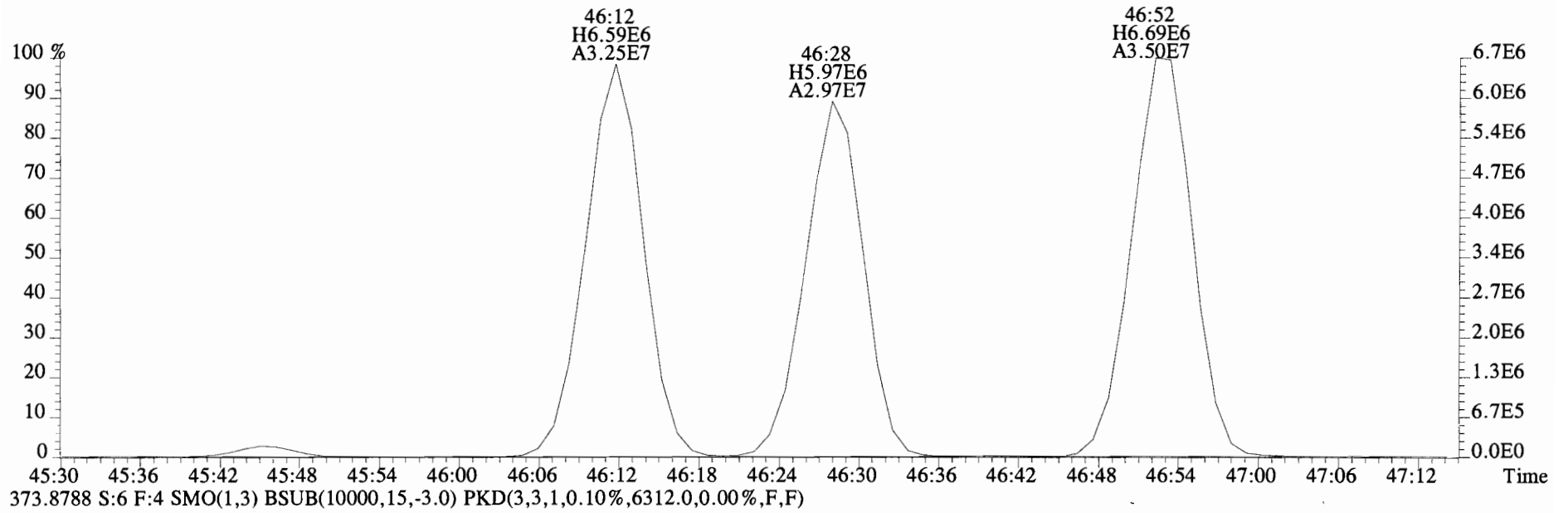
File:140925E1 #1-761 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1428.0,0.00%,F,F)



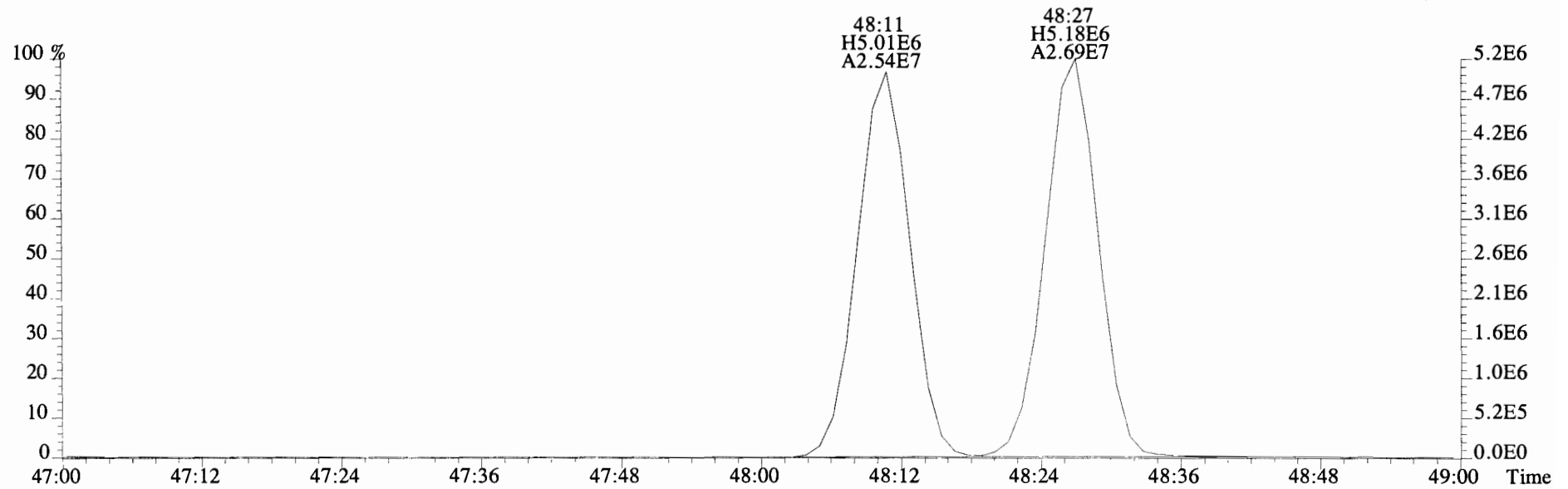
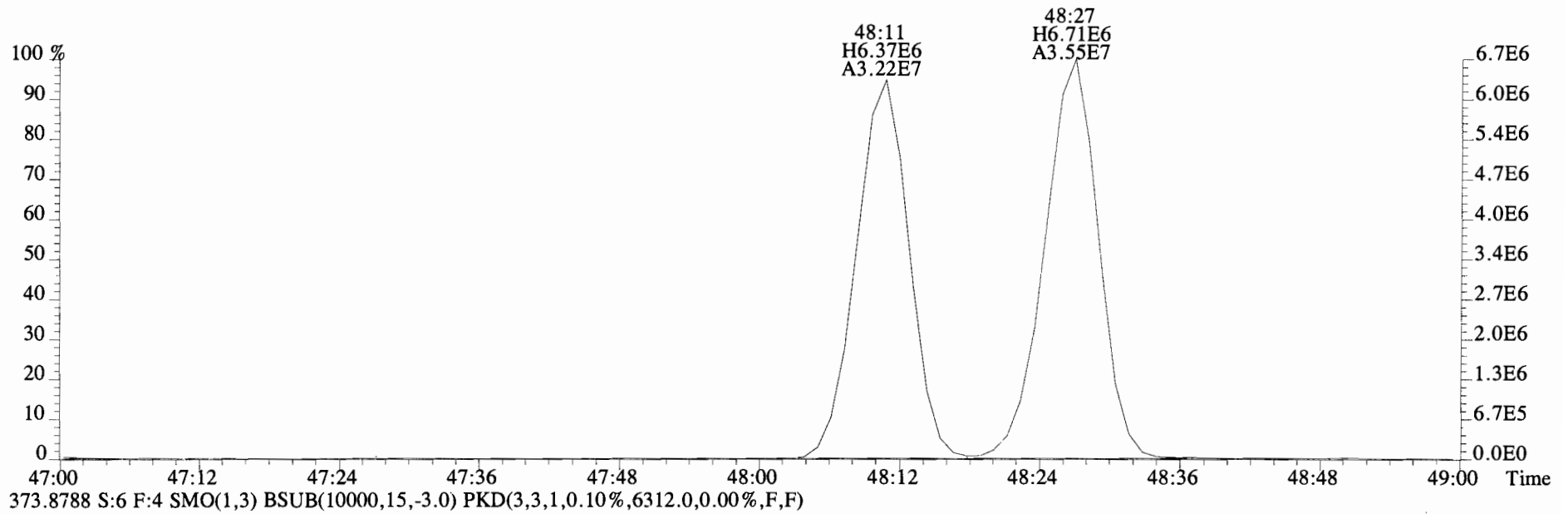
File:140925E1 #1-561 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



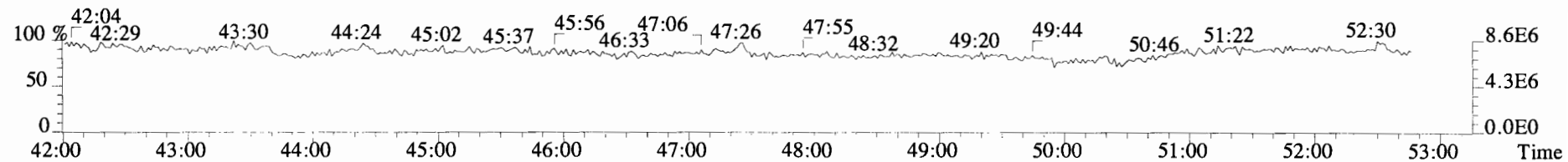
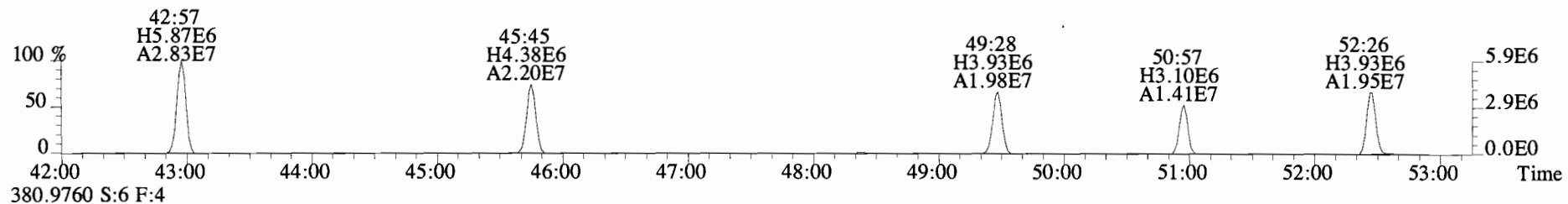
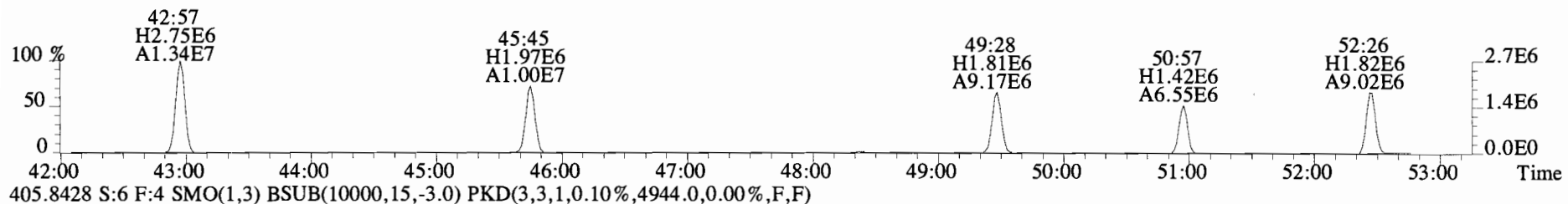
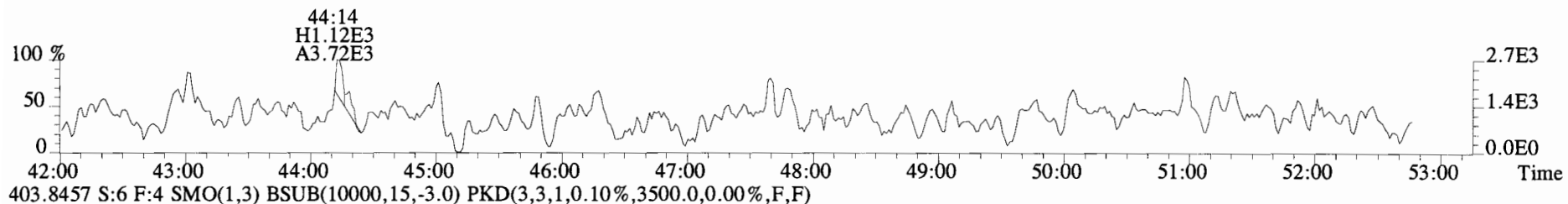
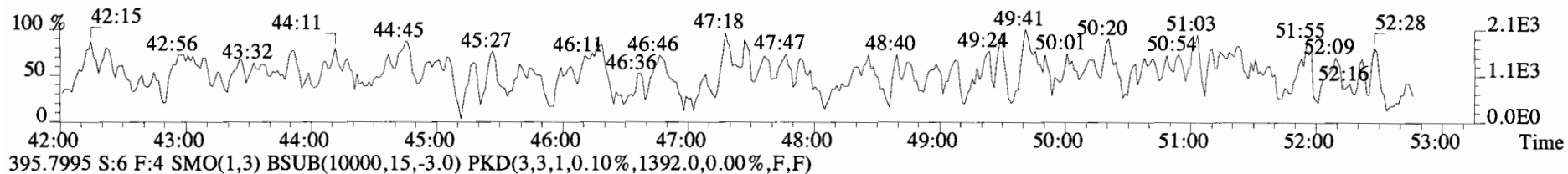
File:140925E1 #1-561 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text: B4I0067-BLK1 Method Blank 1 Exp: PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7268.0,0.00%,F,F)



File:140925E1 #1-561 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7268.0,0.00%,F,F)

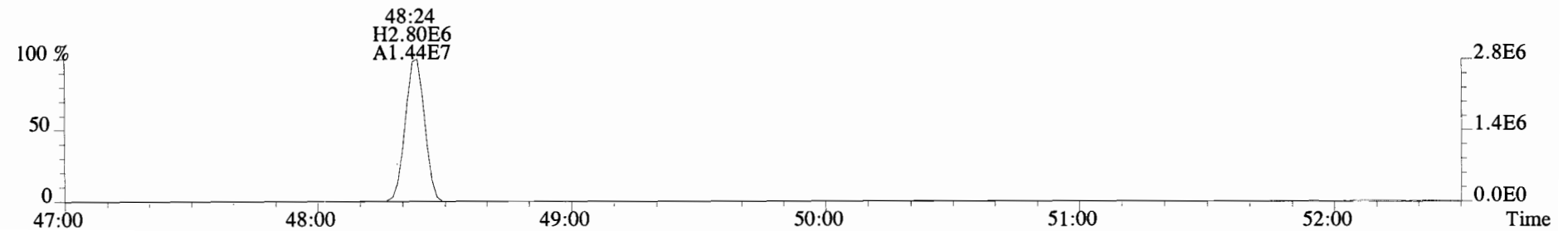
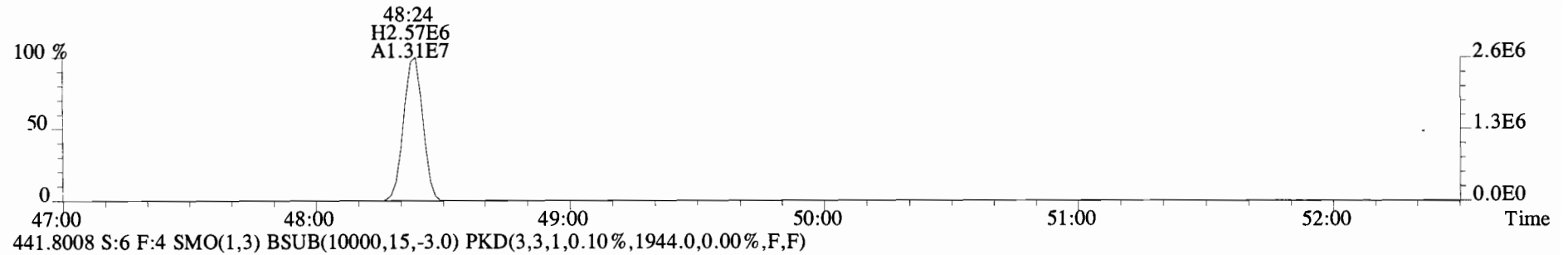
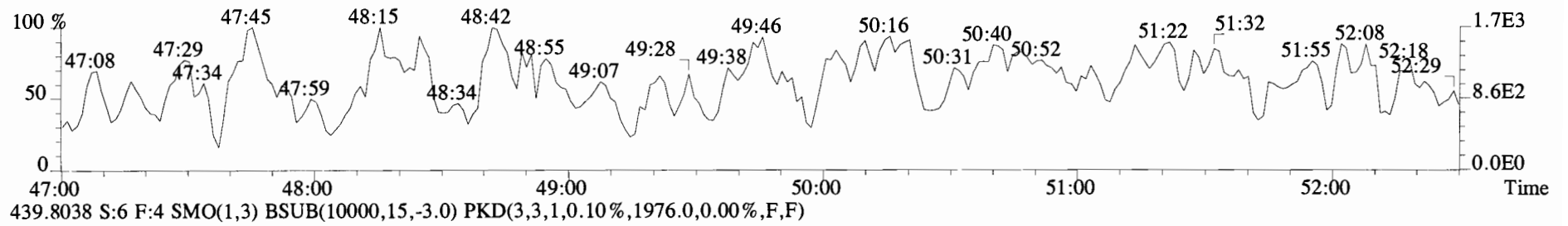
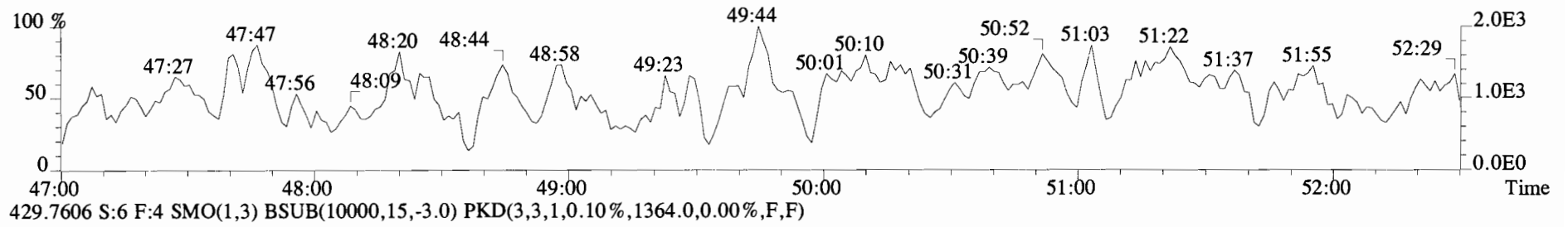


File:140925E1 #1-561 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)

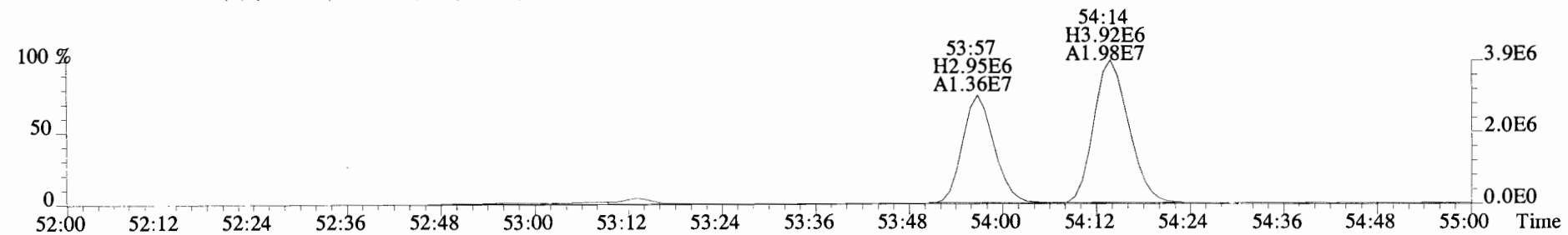
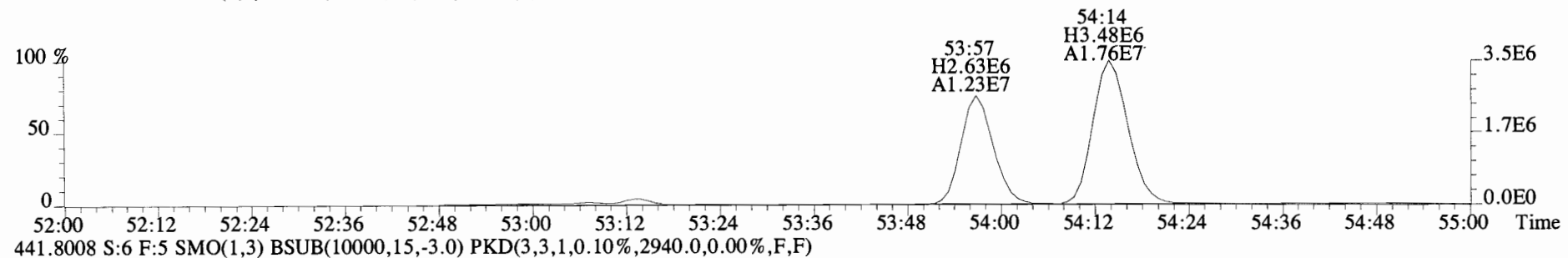
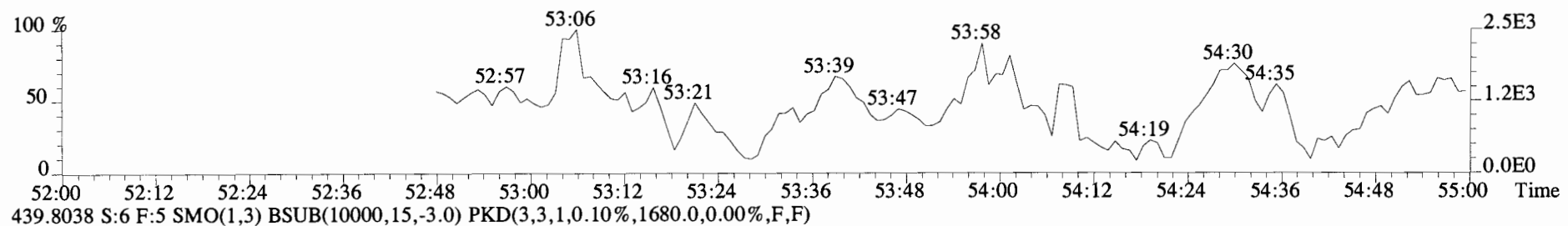
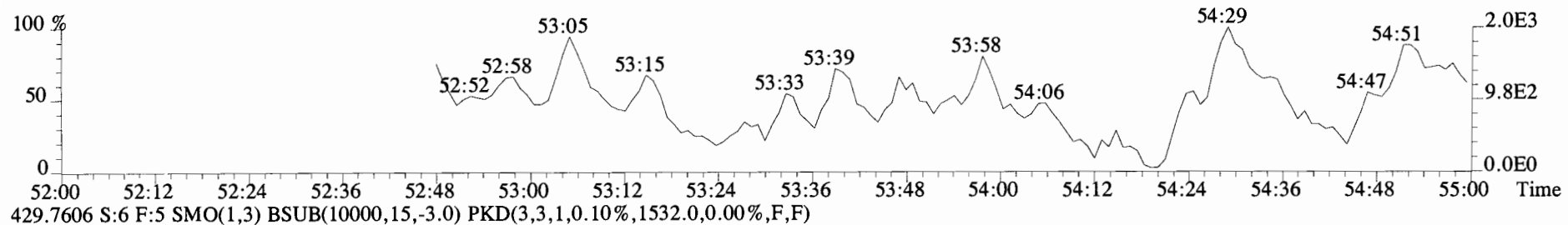




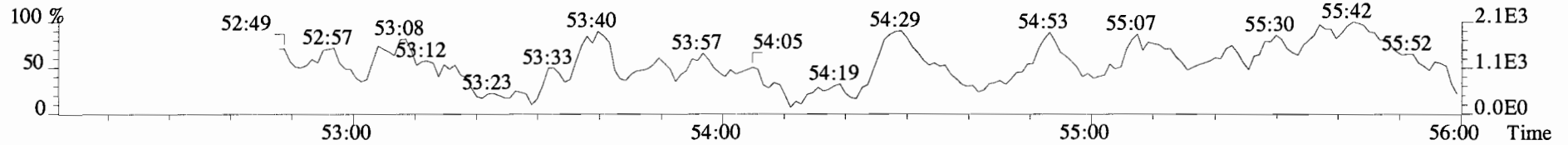
File:140925E1 #1-561 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



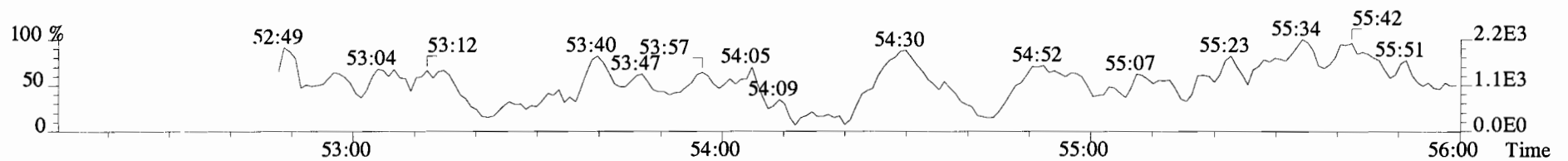
File:140925E1 #1-418 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1312.0,0.00%,F,F)



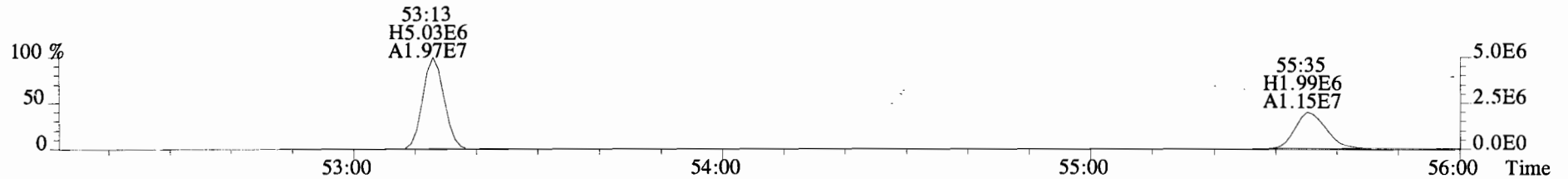
File:140925E1 #1-418 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BLK1 Method Blank 1 Exp:PCB\_ZB1  
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1368.0,0.00%,F,F)



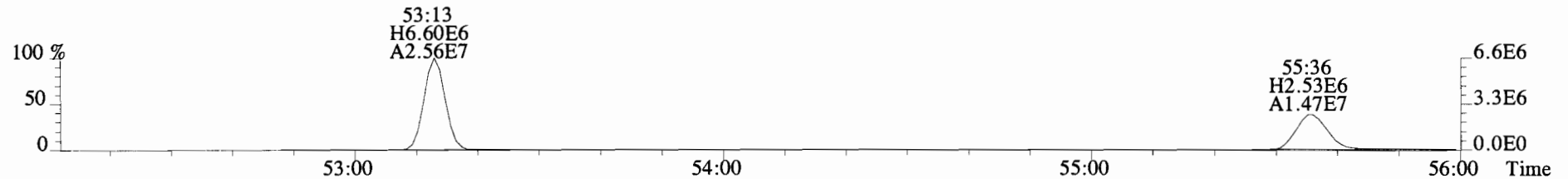
465.7186 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



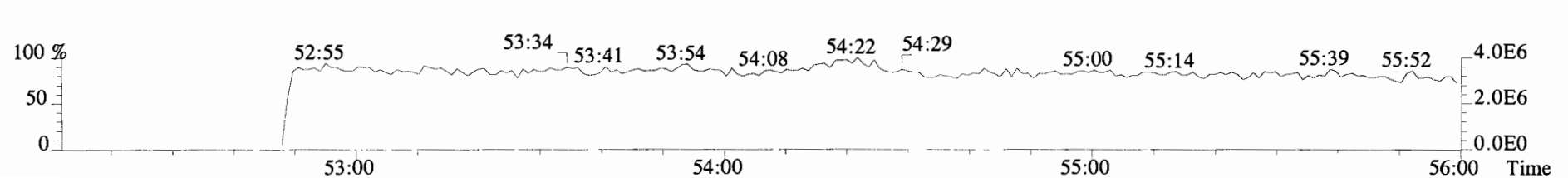
473.7648 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8592.0,0.00%,F,F)



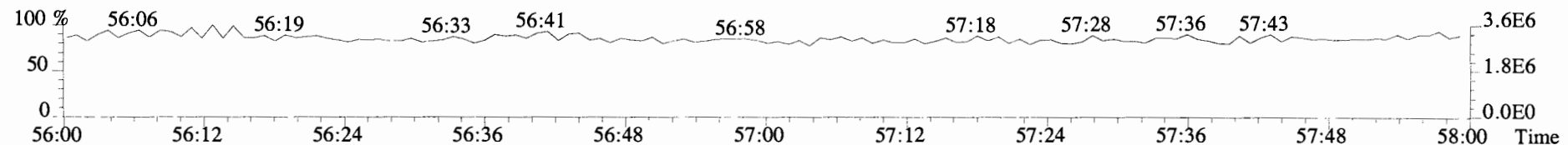
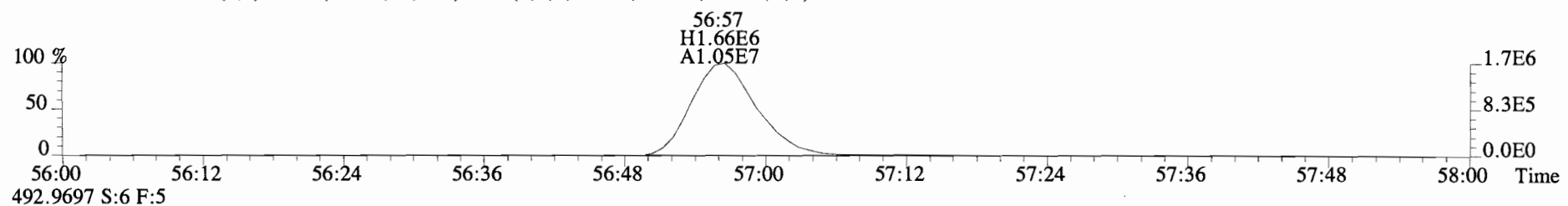
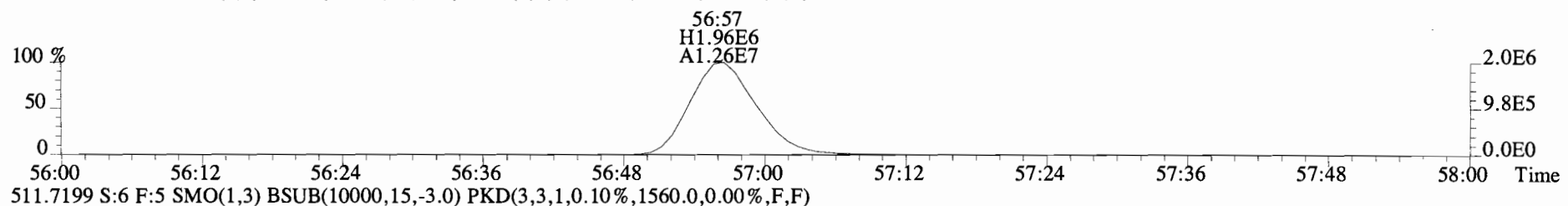
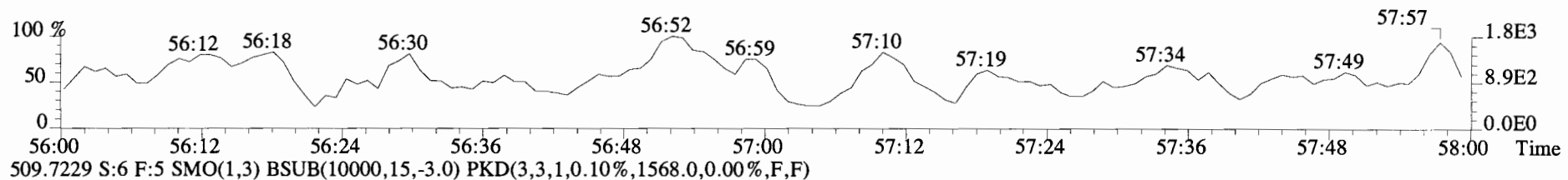
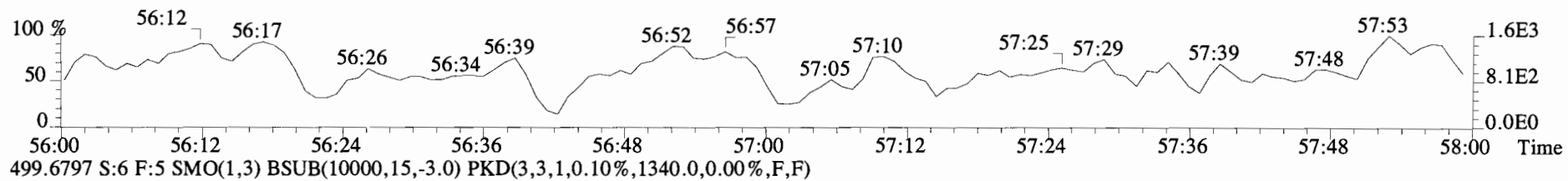
475.7619 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12408.0,0.00%,F,F)



492.9697 S:6 F:5



File:140925E1 #1-418 Acq:25-SEP-2014 13:27:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text: B4I0067-BLK1 Method Blank 1 Exp: PCB\_ZB1  
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1320.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory      OPR Data Filename: B4I0067-BS1

Matrix : AQUEOUS      Ext. Date: 9-23-14      Analysis Date: 25-SEP-14 Time: 10:14:19

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	53.8	30.0-67.5	13C-PCB-1	100	85.9	15-145	13C-PCB-79	100	105.4	40-145
PCB-3	50	54.4	30.0-67.5	13C-PCB-3	100	87.0	15-145	13C-PCB-178	100	98.9	40-145
PCB-4/10	200	199.3	120-270	13C-PCB-4	100	70.9	15-145				
PCB-15	100	96.3	60.0-135	13C-PCB-11	100	77.8	15-145				
PCB-19	50	53.9	30.0-67.5	13C-PCB-19	100	74.3	15-145				
PCB-37	50	41.1	30.0-67.5	13C-PCB-37	100	74.9	15-145				
PCB-54	50	51.0	30.0-67.5	13C-PCB-54	100	81.1	15-145				
PCB-81	50	54.3	30.0-67.5	13C-PCB-81	100	86.5	40-145				
PCB-77	50	54.9	30.0-67.5	13C-PCB-77	100	88.2	40-145				
PCB-104	50	52.9	30.0-67.5	13C-PCB-104	100	83.7	40-145				
PCB-123	50	56.2	30.0-67.5	13C-PCB-123	100	85.7	40-145				
PCB-106/118	100	111.2	60.0-135	13C-PCB-118	100	87.9	40-145				
PCB-114	50	50.0	30.0-67.5	13C-PCB-114	100	82.4	40-145				
PCB-105	50	50.9	30.0-67.5	13C-PCB-105	100	83.6	40-145				
PCB-126	50	50.5	30.0-67.5	13C-PCB-126	100	80.9	40-145				
PCB-155	50	60.4	30.0-67.5	13C-PCB-155	100	61.6	40-145				
PCB-167	50	56.3	30.0-67.5	13C-PCB-167	100	90.3	40-145				
PCB-156	50	56.3	30.0-67.5	13C-PCB-156	100	90.9	40-145				
PCB-157	50	55.3	30.0-67.5	13C-PCB-157	100	92.0	40-145				
PCB-169	50	55.5	30.0-67.5	13C-PCB-169	100	84.5	40-145				
PCB-188	50	57.4	30.0-67.5	13C-PCB-188	100	78.7	40-145				
PCB-189	50	61.9	30.0-67.5	13C-PCB-189	100	73.1	40-145				
PCB-202	50	56.6	30.0-67.5	13C-PCB-202	100	69.2	40-145				
PCB-205	50	48.8	30.0-67.5	13C-PCB-194	100	92.0	40-145				
PCB-208	50	45.7	30.0-67.5	13C-PCB-208	100	105.7	40-145				
PCB-206	50	46.3	30.0-67.5	13C-PCB-206	100	114.1	40-145				
PCB-209	50	56.5	30.0-67.5	13C-PCB-209	100	115.8	40-145				

Analyst: PMSDate: 9/26/14

Client ID: OPR  
Lab ID: B4I0067-BS1

Filename: 140925E1 S:3 Acq:25-SEP-14 10:14:19  
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	9.78e+07	2.99	y	1.25	16:14	1.001	0.996-1.006	53.7951	PCB-52/69	1.03e+08	0.76	y	1.28	31:38	1.001	0.996-1.006	103.577
PCB-2	9.97e+07	3.01	y	1.18	18:37	0.988	0.983-0.993	55.1525	PCB-73	5.93e+07	0.78	y	1.37	31:45	1.005	1.000-1.010	55.4069
PCB-3	1.01e+08	2.96	y	1.22	18:51	1.001	0.996-1.006	54.3809	PCB-43/49	8.99e+07	0.76	y	1.11	31:55	1.010	1.005-1.015	103.476
									PCB-47	4.76e+07	0.74	y	1.13	32:07	1.001	0.996-1.006	51.9739
PCB-4/10	2.28e+08	1.60	y	1.55	20:13	1.002	0.998-1.008	199.323	PCB-48/75	1.09e+08	0.77	y	1.30	32:14	1.004	0.999-1.009	103.518
PCB-7/9	2.80e+08	1.59	y	1.27	22:00	0.868	0.865-0.873	192.635	PCB-65	5.10e+07	0.76	y	1.33	32:30	1.012	1.007-1.017	47.2904
PCB-6	1.42e+08	1.60	y	1.26	22:39	0.894	0.890-0.899	97.9876	PCB-62	5.61e+07	0.77	y	1.29	32:37	1.016	1.011-1.021	53.6500
PCB-5/8	2.85e+08	1.60	y	1.23	23:04	0.911	0.906-0.916	201.384	PCB-44	4.01e+07	0.77	y	0.94	32:55	1.025	1.020-1.030	52.7860
PCB-14	1.59e+08	1.61	y	1.23	24:09	0.953	0.949-0.959	93.6085	PCB-42/59	1.00e+08	0.76	y	1.22	33:09	1.033	1.028-1.038	101.865
PCB-11	1.54e+08	1.61	y	1.16	25:21	1.001	0.996-1.006	96.3181	PCB-41/64/71/72	2.19e+08	0.76	y	1.31	33:44	1.051	1.046-1.056	206.503
PCB-12/13	2.98e+08	1.60	y	1.10	25:44	1.016	1.010-1.020	196.222	PCB-68	6.34e+07	0.76	y	1.49	34:00	1.059	1.054-1.064	52.7318
PCB-15	1.61e+08	1.60	y	1.21	26:03	1.028	1.024-1.034	96.2985	PCB-40	3.58e+07	0.75	y	0.82	34:12	1.065	1.061-1.071	54.0611
									PCB-57	6.26e+07	0.75	y	1.11	34:34	0.971	0.965-0.975	52.2222
PCB-19	5.24e+07	1.06	y	1.30	24:20	1.001	0.996-1.006	53.9300	PCB-67	6.02e+07	0.85	y	1.07	34:53	0.979	0.974-0.984	52.1016
PCB-30	7.68e+07	1.07	y	1.83	25:14	1.038	1.032-1.042	55.9315	PCB-58	6.03e+07	0.69	y	1.10	35:00	0.983	0.977-0.987	50.8039
PCB-18	5.63e+07	1.05	y	0.86	25:59	0.954	0.949-0.959	53.5938	PCB-63	6.33e+07	0.76	y	1.12	35:09	0.987	0.982-0.992	52.6430
PCB-17	5.86e+07	1.06	y	0.90	26:09	0.960	0.955-0.965	53.2246	PCB-74	6.96e+07	0.75	y	1.20	35:26	0.995	0.990-1.000	53.7091
PCB-24/27	1.61e+08	1.06	y	1.18	26:44	0.982	0.976-0.986	111.527	PCB-61/70	1.19e+08	0.77	y	1.08	35:36	1.000	0.994-1.004	102.202
PCB-16/32	1.37e+08	1.06	y	1.03	27:14	1.000	0.995-1.005	108.562	PCB-76/66	1.28e+08	0.76	y	1.14	35:50	1.006	1.001-1.011	104.965
PCB-34	4.45e+07	0.97	y	1.26	28:02	0.961	0.956-0.966	42.2638	PCB-80	7.31e+07	0.76	y	1.28	36:03	1.000	0.996-1.006	51.7435
PCB-23	4.26e+07	0.99	y	1.31	28:07	0.963	0.959-0.969	38.9650	PCB-55	6.81e+07	0.76	y	1.11	36:23	1.010	1.005-1.015	55.5092
PCB-29	4.47e+07	0.96	y	1.33	28:22	0.972	0.967-0.977	40.2595	PCB-56/60	1.22e+08	0.76	y	1.09	36:52	1.023	1.018-1.028	101.144
PCB-26	4.65e+07	0.98	y	1.29	28:35	0.979	0.974-0.984	43.1654	PCB-79	6.57e+07	0.77	y	1.12	37:56	1.053	1.048-1.058	52.8796
PCB-25	4.56e+07	0.99	y	1.34	28:45	0.985	0.980-0.990	40.6420	PCB-78	6.36e+07	0.76	y	1.24	38:38	0.987	0.982-0.992	54.7572
PCB-31	5.11e+07	0.97	y	1.42	29:06	0.997	0.992-1.002	43.1149	PCB-81	7.04e+07	0.78	y	1.38	39:10	1.000	0.995-1.005	54.2992
PCB-28	5.07e+07	0.99	y	1.38	29:12	1.001	0.996-1.006	44.0831	PCB-77	6.77e+07	0.80	y	1.21	39:46	1.000	0.995-1.005	54.8986
PCB-20/21/33	1.39e+08	0.97	y	1.31	29:50	1.022	1.017-1.027	127.005									
PCB-22	4.80e+07	0.96	y	1.32	30:16	1.037	1.032-1.042	43.5228	PCB-104	4.25e+07	1.56	y	1.26	32:47	1.001	0.996-1.006	52.8783
PCB-36	4.61e+07	0.99	y	1.38	30:52	0.933	0.929-0.939	43.3241	PCB-96	3.80e+07	1.57	y	1.09	34:02	1.039	1.034-1.044	54.4760
PCB-39	4.85e+07	0.99	y	1.42	31:21	0.948	0.943-0.953	44.1819	PCB-103	3.26e+07	1.62	y	0.93	34:34	1.055	1.050-1.060	54.6140
PCB-38	5.09e+07	1.01	y	1.35	32:07	0.971	0.967-0.976	48.5941	PCB-100	3.47e+07	1.57	y	1.00	34:55	1.066	1.061-1.071	54.1213
PCB-35	4.50e+07	0.99	y	1.38	32:38	0.987	0.982-0.992	42.2684	PCB-94	2.95e+07	1.57	y	1.11	35:24	0.986	0.981-0.991	54.4793
PCB-37	4.42e+07	0.96	y	1.39	33:05	1.001	0.996-1.006	41.0917	PCB-95/98/102	1.02e+08	1.58	y	1.21	35:53	0.999	0.994-1.004	171.663
									PCB-93	2.26e+07	1.60	y	1.13	36:01	1.003	0.998-1.008	40.9637
PCB-54	5.45e+07	0.76	y	1.20	28:05	1.001	0.996-1.006	51.0300	PCB-88/91	6.00e+07	1.56	y	1.02	36:18	1.011	1.006-1.016	120.499
PCB-50	4.37e+07	0.76	y	0.97	29:15	1.042	1.037-1.047	50.7565	PCB-121	4.21e+07	1.59	y	1.90	36:25	1.014	1.009-1.019	45.2589
PCB-53	4.64e+07	0.76	y	1.19	29:54	0.946	0.941-0.951	50.0437	PCB-84/92	5.98e+07	1.56	y	1.05	37:14	0.990	0.986-0.996	107.522
PCB-51	4.72e+07	0.74	y	1.15	30:15	0.957	0.952-0.962	52.4543	PCB-89	2.93e+07	1.62	y	1.02	37:25	0.995	0.991-1.001	54.4333
PCB-45	3.82e+07	0.75	y	0.97	30:41	0.971	0.966-0.976	50.5922									
PCB-46	3.59e+07	0.76	y	0.95	31:10	0.986	0.982-0.992	48.3311									

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by  
Analyst: Dms

Date: 9/26/14

Reviewed

by  
Analyst: [Signature]

Date: 9/30/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	6.60e+07	1.55	y	1.19	37:37	1.000	0.996-1.006	104.755	PCB-133/142	7.78e+07	1.24	y	0.95	42:33	0.982	0.977-0.987	108.396
PCB-113	4.11e+07	1.57	y	1.35	37:51	1.007	1.002-1.012	57.5234	PCB-131	3.71e+07	1.22	y	0.91	42:43	0.986	0.981-0.991	53.3809
PCB-99	3.37e+07	1.60	y	1.29	37:57	1.009	1.005-1.015	49.4147	PCB-146/165	9.55e+07	1.23	y	1.16	42:56	0.991	0.986-0.996	108.769
PCB-119	4.12e+07	1.59	y	1.72	38:24	0.987	0.982-0.992	51.7539	PCB-132/161	9.16e+07	1.21	y	1.11	43:11	0.997	0.992-1.002	108.325
PCB-108/112	6.32e+07	1.58	y	1.29	38:34	0.991	0.986-0.996	106.220	PCB-153	5.15e+07	1.22	y	1.18	43:20	1.000	0.995-1.005	57.5176
PCB-83	3.84e+07	1.55	y	1.52	38:44	0.995	0.991-1.001	54.6475	PCB-168	5.77e+07	1.23	y	1.37	43:34	1.005	1.000-1.010	55.4383
PCB-97	3.16e+07	1.58	y	1.25	38:55	1.000	0.996-1.006	54.7209	PCB-141	4.03e+07	1.22	y	0.97	44:05	1.000	0.996-1.005	55.0757
PCB-86	2.24e+07	1.52	y	1.02	39:04	1.004	1.000-1.010	47.4123	PCB-137	5.10e+07	1.20	y	1.07	44:28	1.009	1.004-1.014	63.5098
B-87/117/125	1.20e+08	1.63	y	1.56	39:11	1.007	1.002-1.012	166.258	PCB-130	3.75e+07	1.26	y	0.85	44:34	1.011	1.007-1.017	58.9826
PCB-111/115	8.71e+07	1.50	y	1.75	39:21	1.011	1.007-1.017	107.571	PCB-138/163/164	1.47e+08	1.23	y	1.23	44:57	1.001	0.996-1.006	171.302
PCB-85/116	6.60e+07	1.58	y	1.30	39:29	1.015	1.010-1.020	109.742	PCB-158/160	1.05e+08	1.23	y	1.29	45:11	1.006	1.001-1.011	116.090
PCB-120	4.62e+07	1.58	y	1.78	39:43	1.021	1.016-1.026	56.0868	PCB-129	3.57e+07	1.23	y	0.92	45:26	1.012	1.007-1.017	55.0945
PCB-110	4.30e+07	1.60	y	1.68	39:52	1.024	1.020-1.030	55.4121	PCB-166	5.26e+07	1.24	y	1.12	45:53	0.993	0.988-0.998	55.8939
PCB-82	2.65e+07	1.60	y	0.74	40:29	0.976	0.972-0.982	57.3940	PCB-159	5.49e+07	1.22	y	1.16	46:12	1.000	0.995-1.005	55.8408
PCB-124	4.48e+07	1.56	y	1.32	41:10	0.993	0.988-0.998	54.2155	PCB-128/162	9.57e+07	1.22	y	1.02	46:30	1.006	1.002-1.012	111.347
PCB-107/109	1.00e+08	1.58	y	1.22	41:18	0.996	0.991-1.001	131.372	PCB-167	5.45e+07	1.21	y	1.06	46:54	1.000	0.995-1.005	56.2595
PCB-123	4.27e+07	1.57	y	1.22	41:30	1.001	0.995-1.005	56.1992	PCB-156	5.76e+07	1.23	y	1.18	48:11	1.000	0.995-1.005	56.3065
PCB-106/118	9.05e+07	1.58	y	1.22	41:41	1.001	0.996-1.006	111.244	PCB-157	5.53e+07	1.25	y	1.08	48:28	1.001	0.995-1.005	55.3138
PCB-114	5.16e+07	1.57	y	1.36	42:20	1.000	0.995-1.005	50.0302	PCB-169	4.83e+07	1.25	y	1.11	50:36	1.000	0.995-1.005	55.4649
PCB-122	4.67e+07	1.61	y	1.24	42:28	1.004	0.999-1.009	49.5954									
PCB-105	5.17e+07	1.58	y	1.28	43:11	1.000	0.995-1.005	50.8937	PCB-188	4.54e+07	1.07	y	1.40	42:59	1.000	0.995-1.005	57.3688
PCB-127	5.03e+07	1.59	y	1.14	43:32	1.001	0.995-1.005	50.2569	PCB-184	4.23e+07	1.06	y	1.24	43:26	1.011	1.006-1.016	60.6920
PCB-126	4.67e+07	1.58	y	1.28	45:25	1.000	0.995-1.005	50.5192	PCB-179	4.50e+07	1.07	y	1.30	44:13	1.029	1.024-1.034	61.2615
									PCB-176	4.58e+07	1.05	y	1.36	44:40	1.040	1.035-1.045	59.6321
PCB-155	2.69e+07	1.25	y	1.14	37:10	1.000	0.966-1.006	60.3520	PCB-186	4.23e+07	1.07	y	1.28	45:17	1.054	1.049-1.059	58.8218
PCB-150	2.36e+07	1.29	y	1.06	38:26	1.035	1.030-1.040	56.3997	PCB-178	3.20e+07	1.07	y	0.94	45:47	1.066	1.061-1.071	60.5906
PCB-152	2.45e+07	1.27	y	1.10	38:55	1.048	1.043-1.053	56.7306	PCB-175	3.45e+07	1.06	y	0.97	46:07	1.073	1.069-1.079	63.1059
PCB-145	2.51e+07	1.29	y	1.09	39:21	1.059	1.055-1.065	58.3940	PCB-182/187	7.20e+07	1.07	y	1.01	46:18	1.078	1.073-1.083	125.969
PCB-136	2.54e+07	1.29	y	1.08	39:41	1.068	1.064-1.074	59.4723	PCB-183	3.69e+07	1.07	y	1.08	46:37	1.085	1.080-1.090	60.5458
PCB-148	1.87e+07	1.32	y	0.74	39:47	1.071	1.066-1.076	64.0716	PCB-185	3.26e+07	1.09	y	1.34	47:17	0.956	0.951-0.961	56.7965
PCB-154	2.18e+07	1.28	y	0.88	40:16	1.084	1.079-1.089	62.6281	PCB-174	3.37e+07	1.05	y	1.34	47:38	0.963	0.958-0.968	58.8818
PCB-151	1.92e+07	1.28	y	0.81	40:54	1.101	1.097-1.107	60.1940	PCB-181	3.44e+07	1.06	y	1.36	47:45	0.965	0.961-0.971	58.9873
PCB-135	1.91e+07	1.28	y	0.78	41:08	1.107	1.101-1.113	62.2243	PCB-177	3.20e+07	1.10	y	1.24	47:55	0.969	0.964-0.974	60.2749
PCB-144	1.89e+07	1.27	y	0.82	41:15	1.110	1.105-1.116	58.5994	PCB-171	3.25e+07	1.08	y	1.31	48:13	0.975	0.970-0.980	57.8696
PCB-147	2.04e+07	1.32	y	0.83	41:22	1.114	1.011-1.120	62.6039	PCB-173	2.92e+07	1.06	y	1.16	48:38	0.983	0.979-0.989	58.8502
PCB-139/149	3.98e+07	1.27	y	0.84	41:38	1.121	1.115-1.127	119.863	PCB-172	3.12e+07	1.07	y	1.22	49:05	0.992	0.988-0.998	59.7038
PCB-140	1.91e+07	1.32	y	0.79	41:49	1.126	1.120-1.132	61.9392	PCB-192	3.94e+07	1.07	y	1.53	49:17	0.996	0.991-1.001	60.3446
PCB-134/143	7.70e+07	1.23	y	0.93	42:15	0.975	0.970-0.980	109.363	PCB-180	3.54e+07	1.08	y	1.43	49:29	1.000	0.995-1.005	57.8352

Integrations

by  
Analyst: DMJ  
Date: 9/26/14  
RL: MONO, TRI - DECA: \_\_\_\_\_

Client ID: OPR  
Lab ID: B4I0067-BS1

Filename: 140925E1 S:3 Acq:25-SEP-14 10:14:19  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000

ConCal: ST140925E1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	4.21e+07	1.07 y	1.65	49:41	1.004	0.999-1.009	59.5290	
PCB-191	4.17e+07	1.07 y	1.67	49:56	1.009	1.004-1.014	58.2797	
PCB-170	2.94e+07	1.08 y	1.50	50:58	1.000	0.995-1.005	58.8871	
PCB-190	3.99e+07	1.06 y	2.02	51:08	1.004	0.998-1.008	59.4996	
PCB-189	3.82e+07	1.06 y	1.54	52:28	1.000	0.995-1.005	61.9014	
PCB-202	2.60e+07	0.94 y	1.04	48:25	1.001	0.995-1.005	56.6013	
PCB-201	2.86e+07	0.92 y	1.10	48:54	1.011	1.006-1.016	58.7806	
PCB-204	2.53e+07	0.92 y	0.99	49:03	1.014	1.009-1.019	57.7695	
PCB-197	2.77e+07	0.92 y	1.07	49:21	1.020	1.015-1.025	58.5465	
PCB-200	2.73e+07	0.92 y	1.02	50:14	1.038	1.032-1.044	60.8635	
PCB-198	1.72e+07	0.91 y	0.74	51:33	1.065	1.058-1.068	52.4974	
PCB-199	2.09e+07	0.92 y	0.73	51:40	1.068	1.060-1.070	64.8675	
PCB-196/203	3.94e+07	0.92 y	0.77	51:56	1.073	1.066-1.076	115.629	
PCB-195	2.03e+07	0.92 y	1.20	53:05	0.984	0.979-0.989	46.3088	
PCB-194	2.12e+07	0.89 y	1.25	53:58	1.000	0.995-1.005	46.5534	
PCB-205	2.52e+07	0.89 y	1.41	54:15	1.006	1.001-1.011	48.8188	
PCB-208	2.56e+07	1.29 y	0.96	53:14	1.000	0.995-1.005	45.6525	
PCB-207	2.65e+07	1.31 y	0.92	53:33	1.006	1.001-1.011	49.5927	
PCB-206	1.76e+07	1.31 y	1.03	55:36	1.000	0.995-1.005	46.3457	
PCB-209	2.32e+07	1.17 y	1.18	56:57	1.000	0.995-1.005	56.4842	

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	2.99e+08	2.99 y	16:14	1.22	163.328	
Total Di-PCB	1.71e+09	1.60 y	20:13	1.21	1175.60	
Total Tri-PCB	5.41e+08	1.06 y	24:20	1.16	436.769	
Total Tri-PCB	7.86e+08	0.97 y	28:02	1.35	717.250	Sum:1154.02
Total Tetra-PCB	2.36e+09	0.76 y	28:05	1.17	2207.02	
Total Penta-PCB	1.50e+09	1.56 y	32:47	1.21	2249.40	
Total Penta-PCB	2.78e+08	1.57 y	42:20	1.26	283.172	Sum:2532.57
Total Hexa-PCB	3.02e+08	1.25 y	37:10	0.92	843.472	
Total Hexa-PCB	1.34e+09	1.23 y	42:15	1.08	1592.47	Sum:2435.94
Total Hepta-PCB	9.03e+08	1.07 y	42:59	1.27	1458.66	
Total Octa-PCB	2.12e+08	0.94 y	48:25	0.92	525.555	
Total Octa-PCB	6.92e+07	0.92 y	53:05	1.29	146.952	Sum:672.507
Total Nona-PCB	7.08e+07	1.29 y	53:14	0.96	143.806	
Total Deca-PCB	2.32e+07	1.17 y	56:57	1.18	56.4842	

Total PCB Conc:11846.5074040

RL: MONO, TRI - DECA: \_\_\_\_\_

Integrations  
by  
Analyst: DMS  
Date: 9/26/14



Client ID: OPR  
Lab ID: B4I0067-BS1

Filename: 140925E1 S:3 Acq:25-SEP-14 10:14:19  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

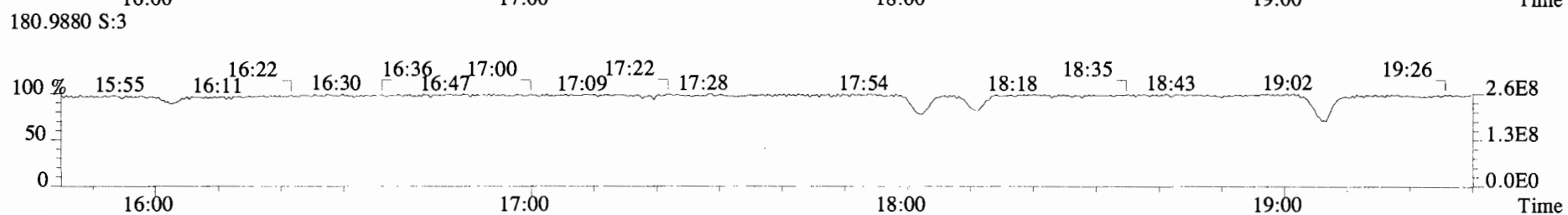
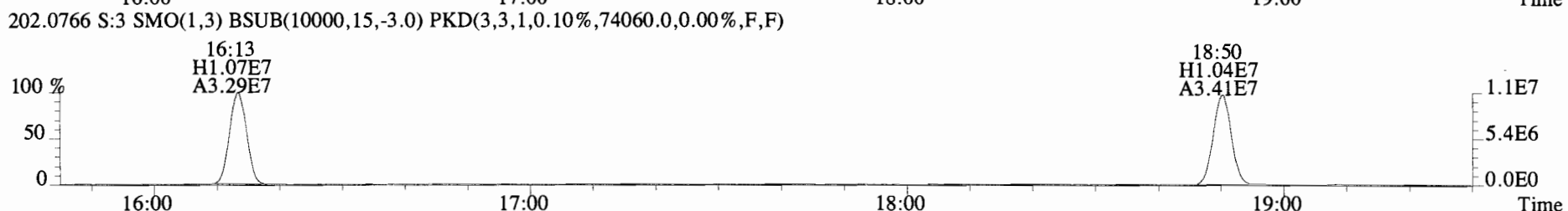
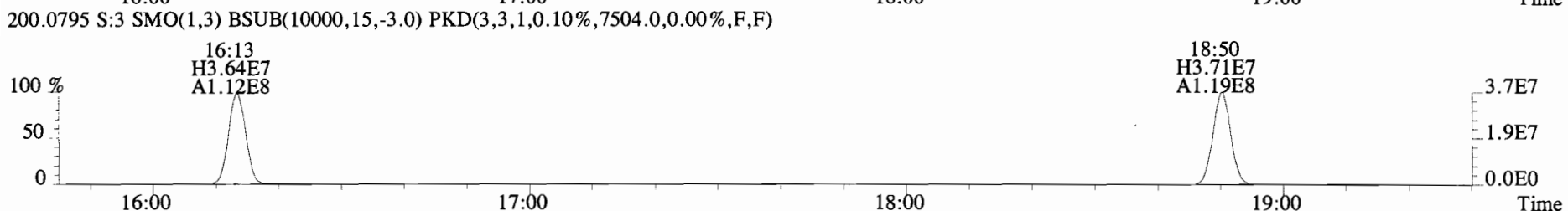
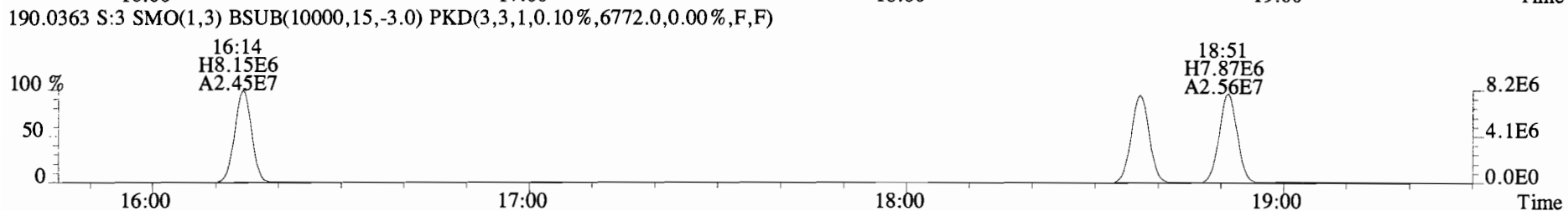
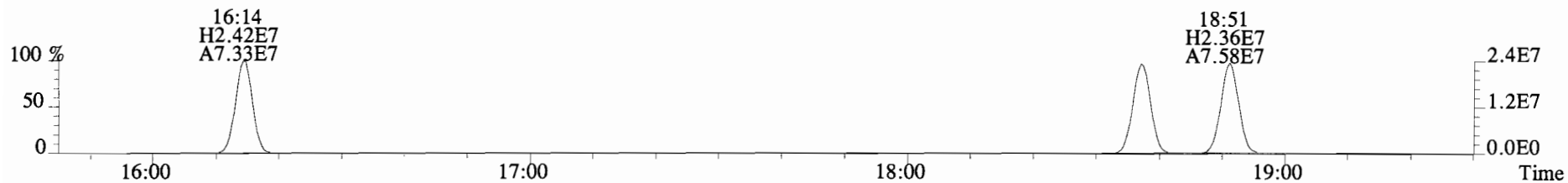
ConCal: ST140925E1-1  
EndCAL: NA

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	1.45e+08	3.40	y	0.89	16:13	0.623	0.622-0.628	85.9	85.9											
13C-PCB-3	1.53e+08	3.49	y	0.93	18:50	0.723	0.721-0.729	87.0	87.0		13C-PCB-79	1.37e+08	0.76	y	1.01	37:55	1.028	1.023-1.033	105	105
13C-PCB-4	7.36e+07	1.57	y	0.55	20:10	0.774	0.772-0.780	70.9	70.9		13C-PCB-178	4.77e+07	0.47	y	0.63	45:45	0.985	0.979-0.989	98.9	98.9
13C-PCB-9	1.15e+08	1.57	y	0.83	21:57	0.843	0.840-0.848	73.3	73.3											
13C-PCB-11	1.38e+08	1.56	y	0.94	25:20	0.972	0.968-0.978	77.8	77.8											
13C-PCB-19	7.50e+07	1.11	y	0.53	24:19	0.933	0.929-0.939	74.3	74.3											
13C-PCB-28	8.35e+07	1.00	y	0.89	29:11	1.003	0.999-1.009	75.6	75.6											
13C-PCB-32	1.22e+08	1.10	y	0.81	27:14	1.045	1.041-1.051	79.3	79.3		13C-PCB-79	1.37e+08	0.76	y	1.20	37:55	0.968	0.963-0.973	122	122
13C-PCB-37	7.74e+07	1.00	y	0.83	33:04	1.137	1.131-1.143	74.9	74.9		13C-PCB-178	4.77e+07	0.47	y	0.94	45:45	0.925	0.920-0.930	119	119
13C-PCB-47	8.09e+07	0.77	y	0.74	32:06	0.871	0.867-0.875	84.0	84.0											
13C-PCB-52	7.81e+07	0.78	y	0.71	31:36	0.857	0.853-0.861	85.2	85.2											
13C-PCB-54	8.91e+07	0.78	y	0.85	28:04	0.761	0.758-0.766	81.1	81.1											
13C-PCB-70	1.08e+08	0.78	y	0.94	35:37	0.966	0.961-0.971	88.1	88.1											
13C-PCB-77	1.02e+08	0.76	y	0.89	39:45	1.078	1.073-1.083	88.2	88.2											
13C-PCB-80	1.11e+08	0.76	y	0.96	36:02	0.977	0.972-0.982	88.9	88.9											
13C-PCB-81	9.38e+07	0.77	y	0.84	39:09	1.062	1.057-1.067	86.5	86.5											
13C-PCB-95	4.89e+07	1.62	y	0.74	35:55	0.913	0.908-0.918	85.7	85.7											
13C-PCB-97	4.62e+07	1.69	y	0.69	38:55	0.989	0.984-0.994	87.4	87.4											
13C-PCB-101	5.29e+07	1.64	y	0.79	37:36	0.956	0.951-0.961	87.8	87.8											
13C-PCB-104	6.39e+07	1.61	y	1.00	32:46	0.833	0.829-0.837	83.7	83.7											
13C-PCB-105	7.92e+07	1.57	y	1.24	43:11	0.929	0.924-0.934	83.6	83.6											
13C-PCB-114	7.61e+07	1.56	y	1.21	42:19	0.911	0.905-0.915	82.4	82.4											
13C-PCB-118	6.64e+07	1.65	y	0.98	41:39	1.059	1.054-1.064	87.9	87.9											
13C-PCB-123	6.24e+07	1.65	y	0.95	41:28	1.054	1.049-1.059	85.7	85.7											
13C-PCB-126	7.20e+07	1.57	y	1.16	45:25	0.977	0.972-0.982	80.9	80.9											
13C-PCB-127	8.78e+07	1.56	y	1.34	43:30	0.936	0.931-0.941	85.5	85.5											
13C-PCB-138	7.02e+07	1.26	y	1.04	44:55	0.967	0.961-0.971	87.9	87.9											
13C-PCB-141	7.50e+07	1.28	y	1.07	44:04	0.948	0.943-0.953	91.5	91.5											
13C-PCB-153	7.60e+07	1.28	y	1.11	43:20	0.933	0.927-0.937	89.2	89.2											
13C-PCB-155	3.93e+07	1.28	y	0.83	37:09	0.944	0.939-0.949	61.6	61.6											
13C-PCB-156	8.65e+07	1.27	y	1.24	48:11	1.037	1.032-1.042	90.9	90.9											
13C-PCB-157	9.23e+07	1.30	y	1.31	48:26	1.042	1.037-1.047	92.0	92.0											
13C-PCB-159	8.43e+07	1.29	y	1.20	46:12	0.994	0.989-0.999	91.9	91.9											
13C-PCB-167	9.12e+07	1.27	y	1.32	46:53	1.009	1.004-1.014	90.3	90.3											
13C-PCB-169	7.86e+07	1.28	y	1.22	50:35	1.089	1.082-1.092	84.5	84.5											
13C-PCB-170	3.33e+07	0.47	y	0.54	50:57	1.096	1.089-1.101	81.2	81.2											
13C-PCB-180	4.28e+07	0.48	y	0.67	49:28	1.065	1.059-1.069	83.0	83.0											
13C-PCB-188	5.64e+07	0.46	y	0.94	42:58	0.925	0.919-0.929	78.7	78.7											
13C-PCB-189	4.00e+07	0.46	y	0.72	52:27	1.129	1.120-1.132	73.1	73.1											
13C-PCB-194	3.66e+07	0.91	y	0.81	53:57	0.995	0.990-1.000	92.0	92.0											
13C-PCB-202	4.41e+07	0.95	y	0.83	48:23	1.041	1.036-1.046	69.2	69.2											
13C-PCB-206	3.69e+07	0.79	y	0.66	55:36	1.025	1.021-1.031	114	114											
13C-PCB-208	5.83e+07	0.78	y	1.12	53:13	0.981	0.976-0.986	106	106											
13C-PCB-209	3.49e+07	1.22	y	0.61	56:56	1.050	1.044-1.054	116	116											

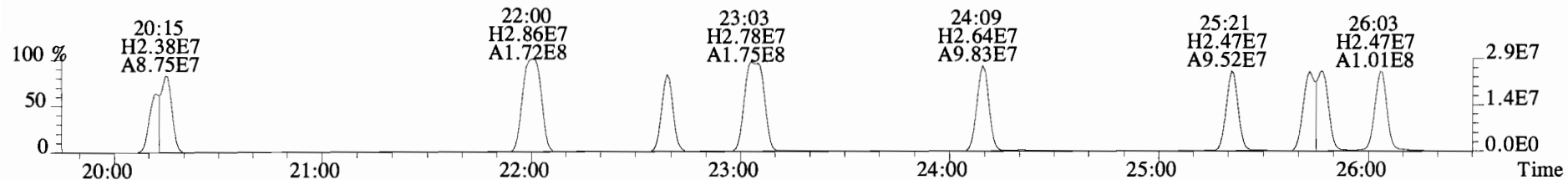
Analyst: *DMS*

Date: *9/26/14*

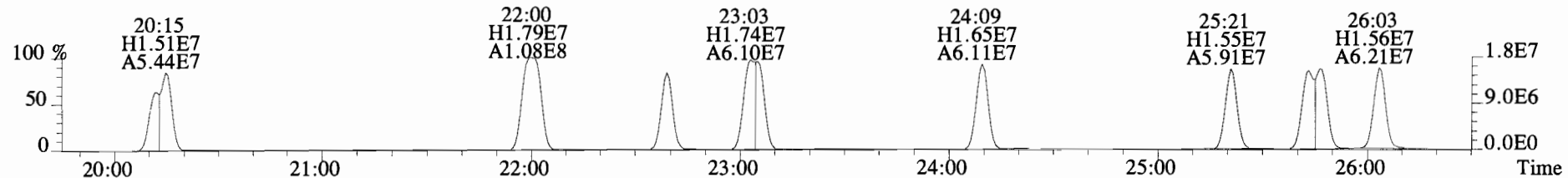
File:140925E1 #1-728 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
188.0393 S:3 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,7864.0,0.00%,F,F)



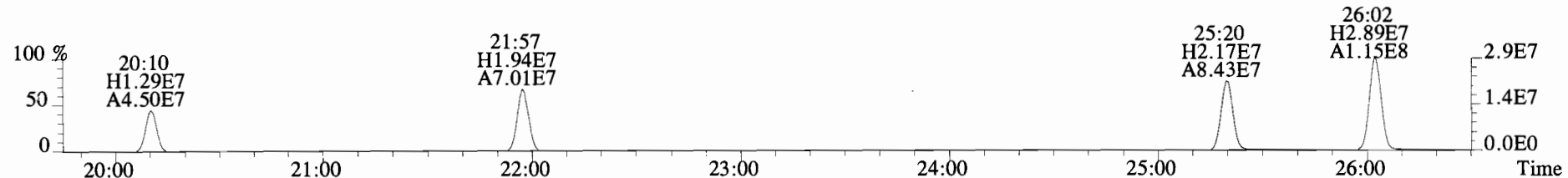
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 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9300.0,0.00%,F,F)



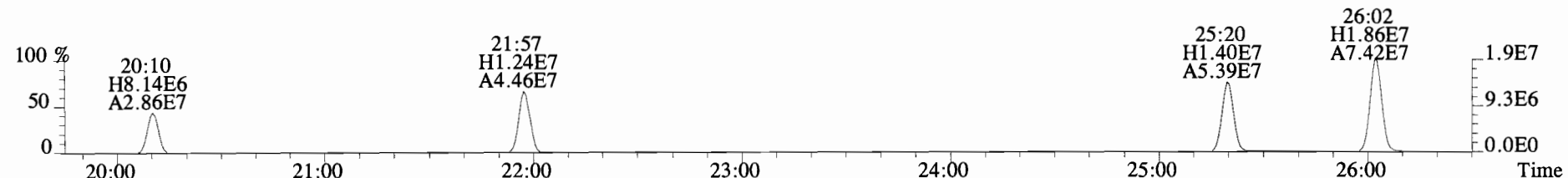
223.9974 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38696.0,0.00%,F,F)



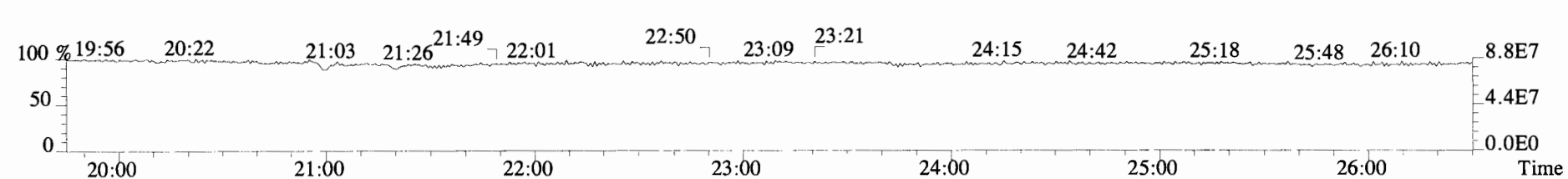
234.0406 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6616.0,0.00%,F,F)



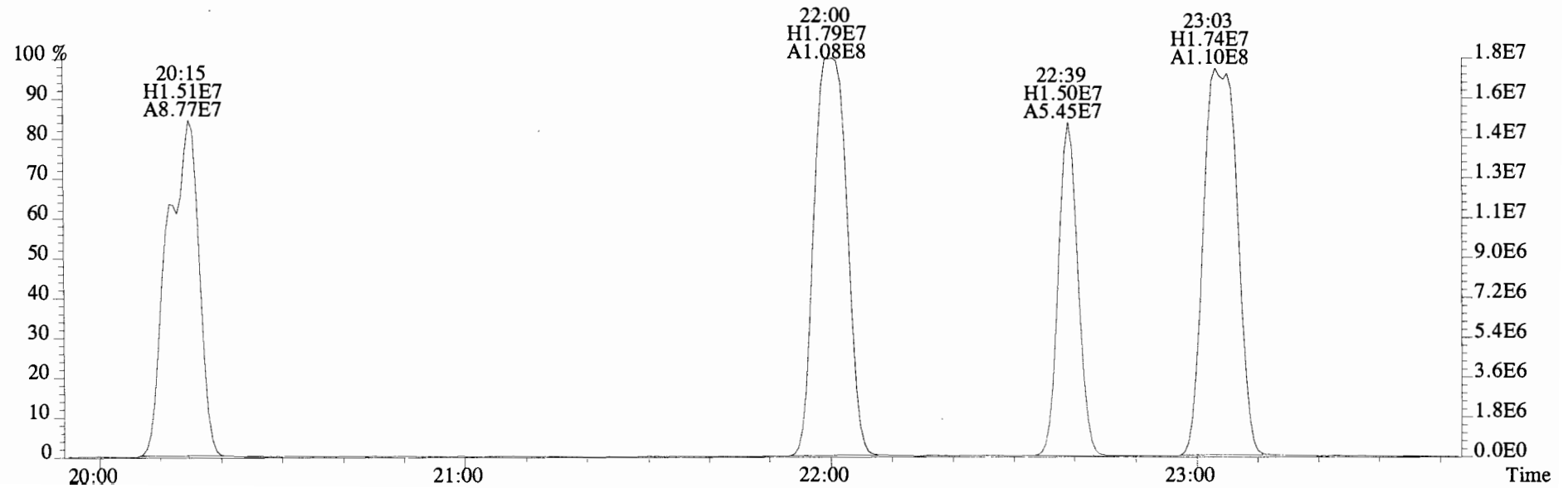
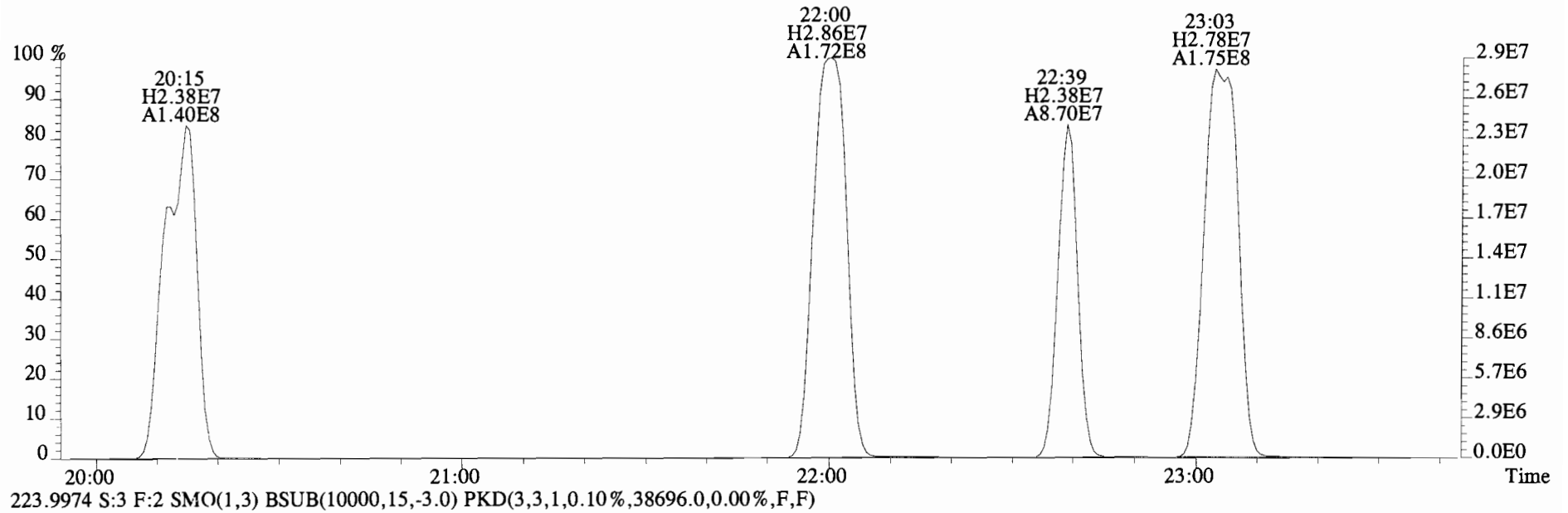
236.0376 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7080.0,0.00%,F,F)



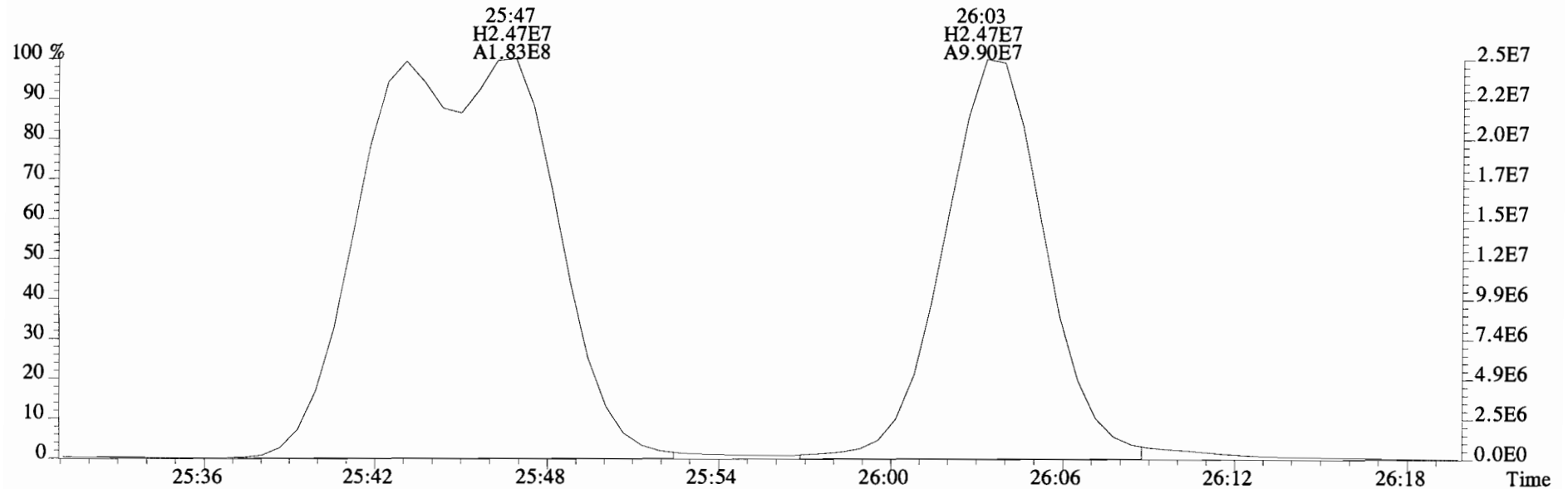
230.9856 S:3 F:2



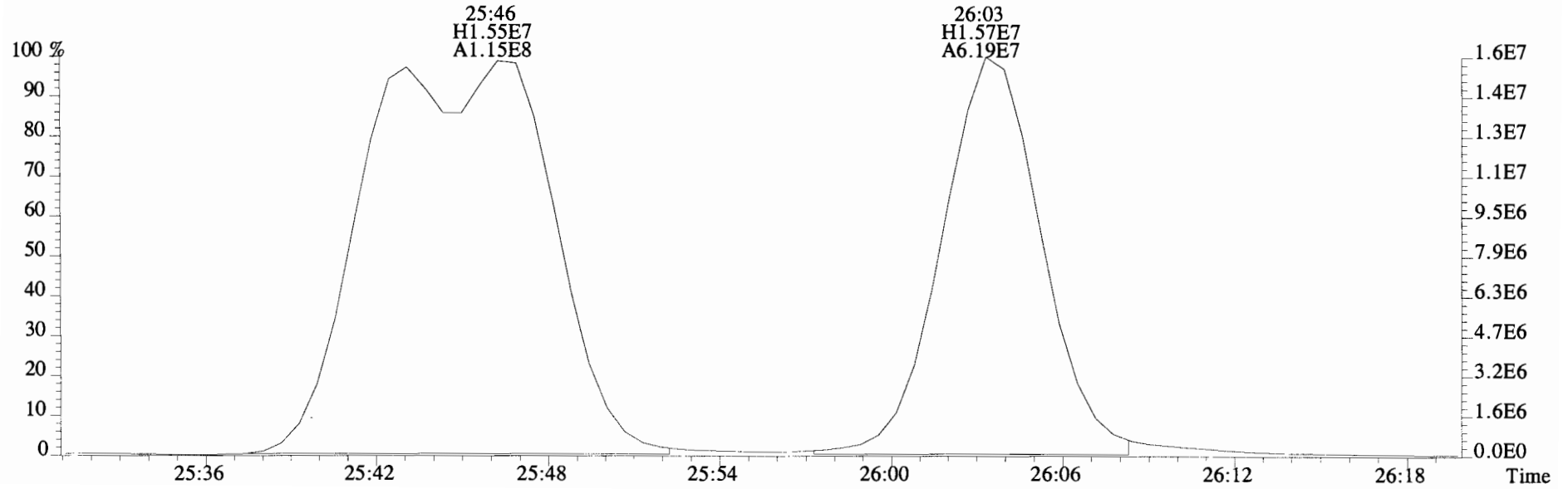
File:140925E1 #1-757 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9300.0,0.00%,F,F)



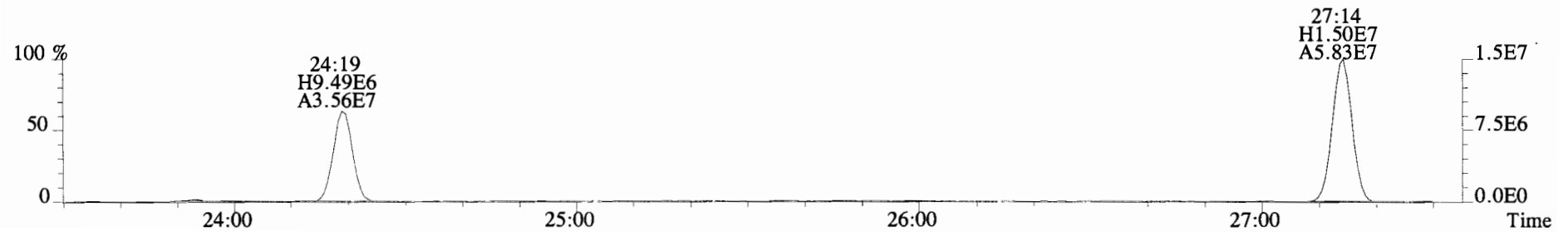
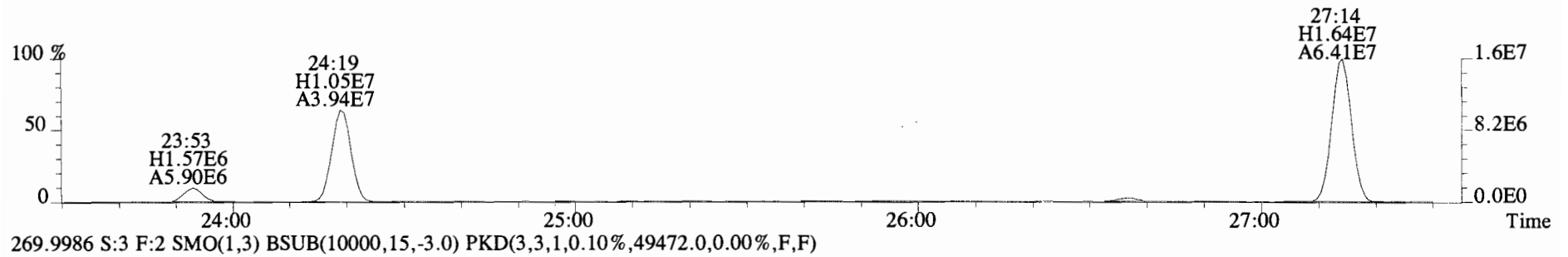
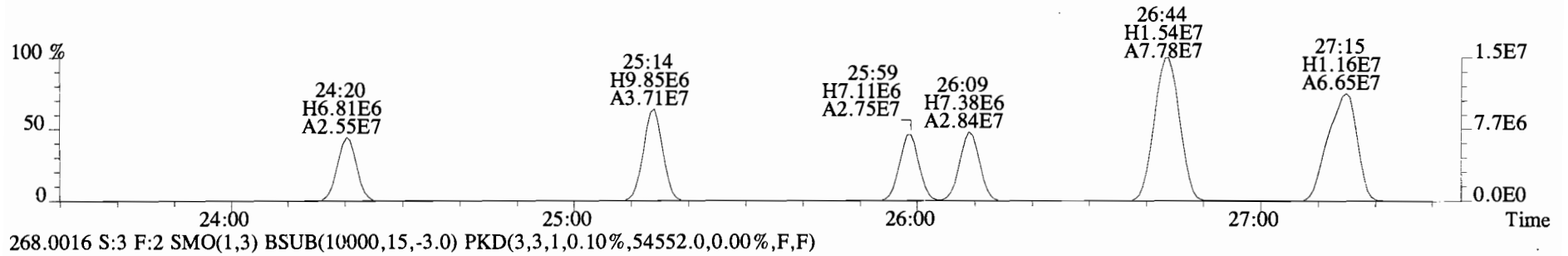
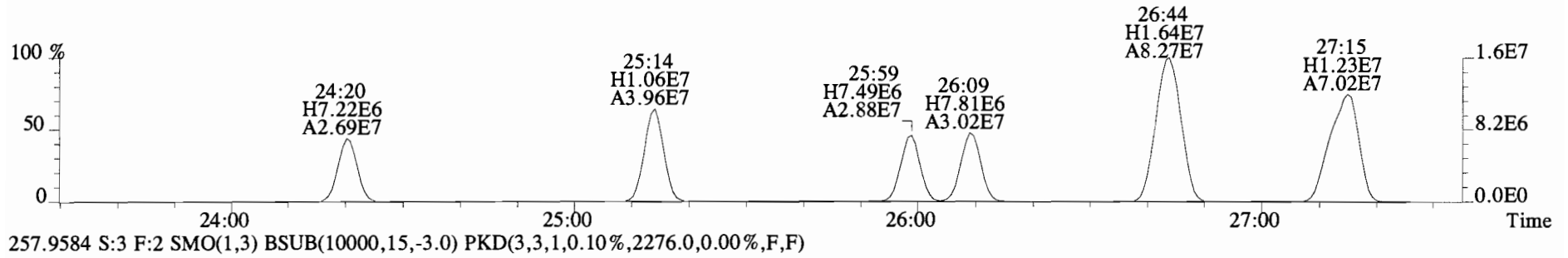
File:140925E1 #1-757 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9300.0,0.00%,F,F)



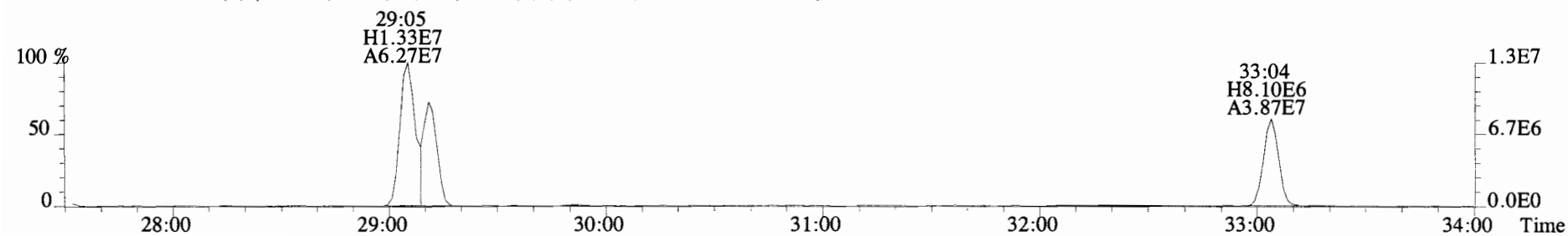
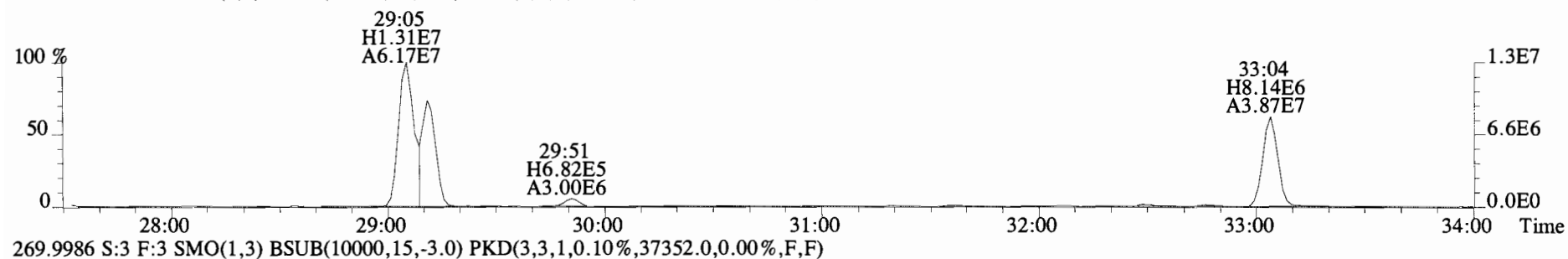
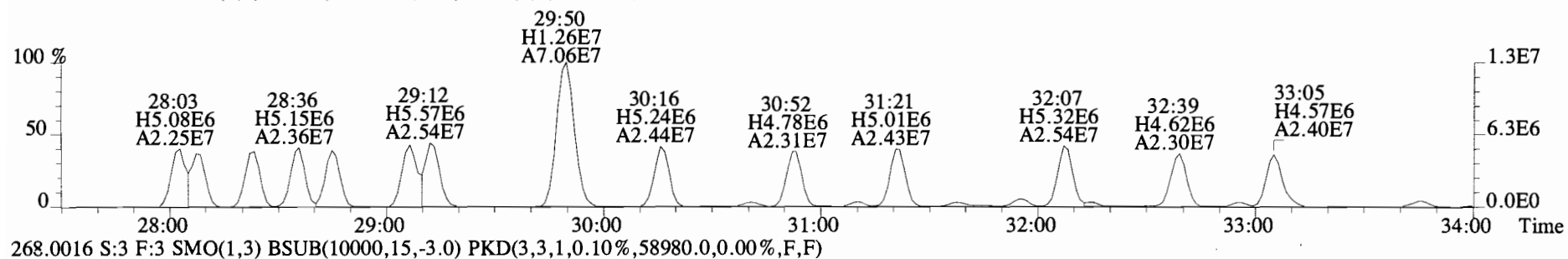
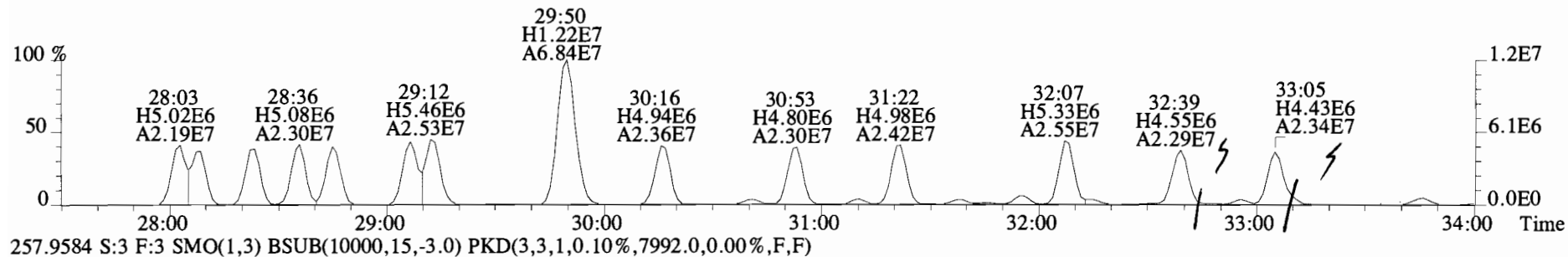
223.9974 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38696.0,0.00%,F,F)



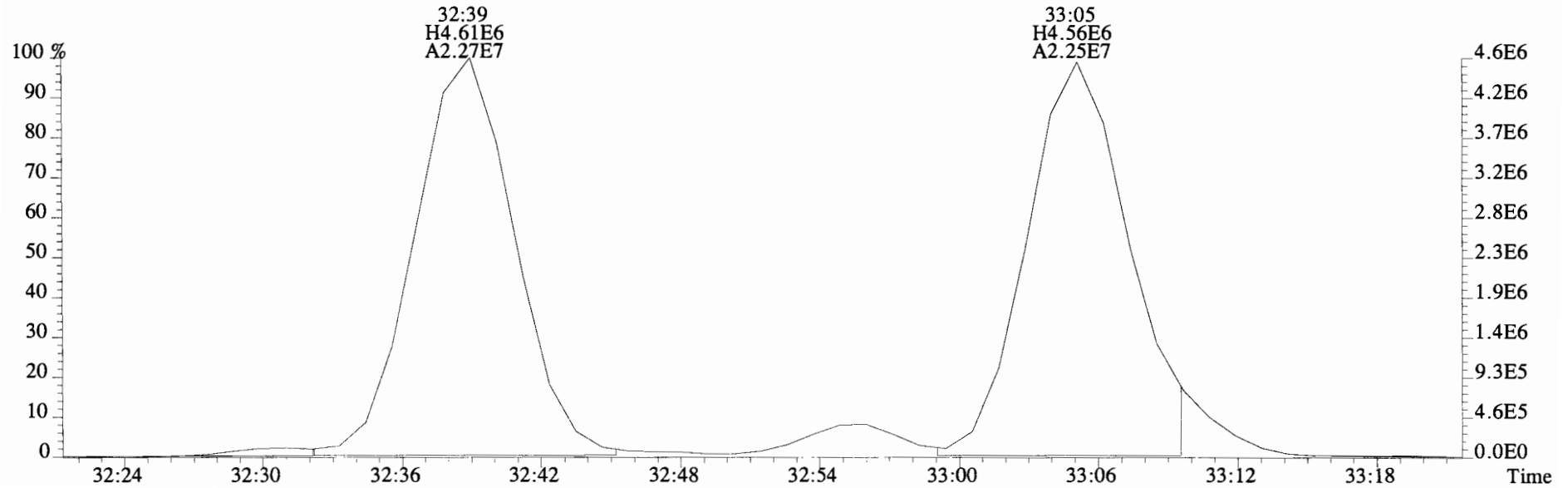
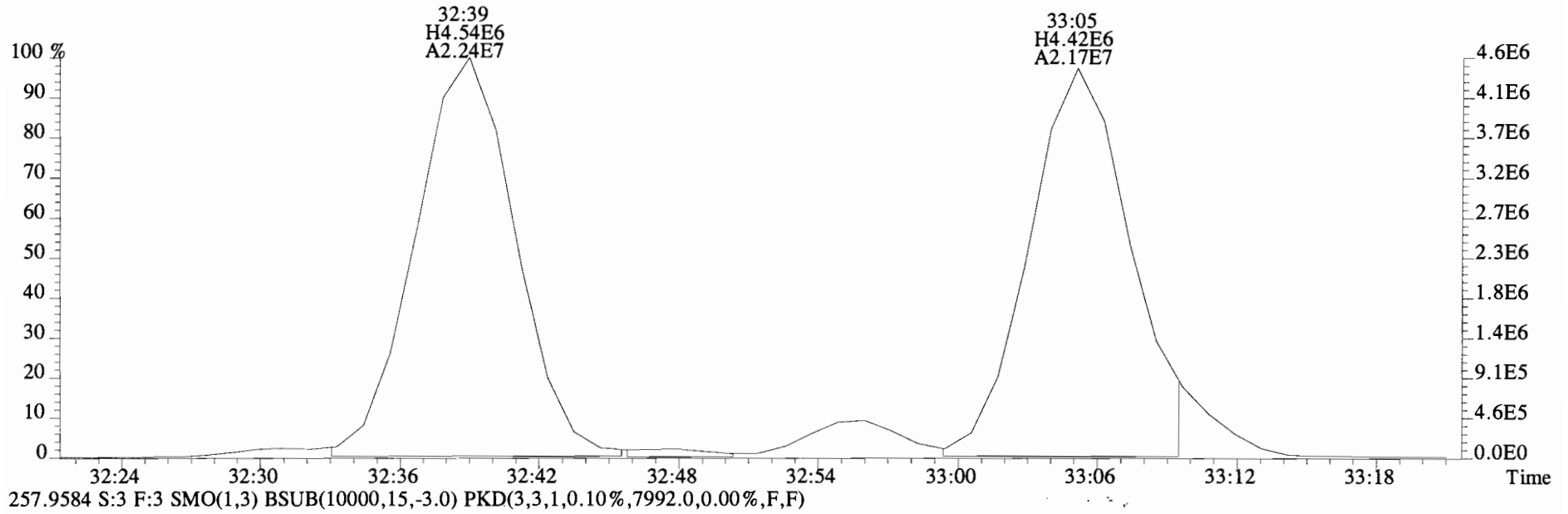
File:140925E1 #1-757 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5712.0,0.00%,F,F)



File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7244.0,0.00%,F,F)

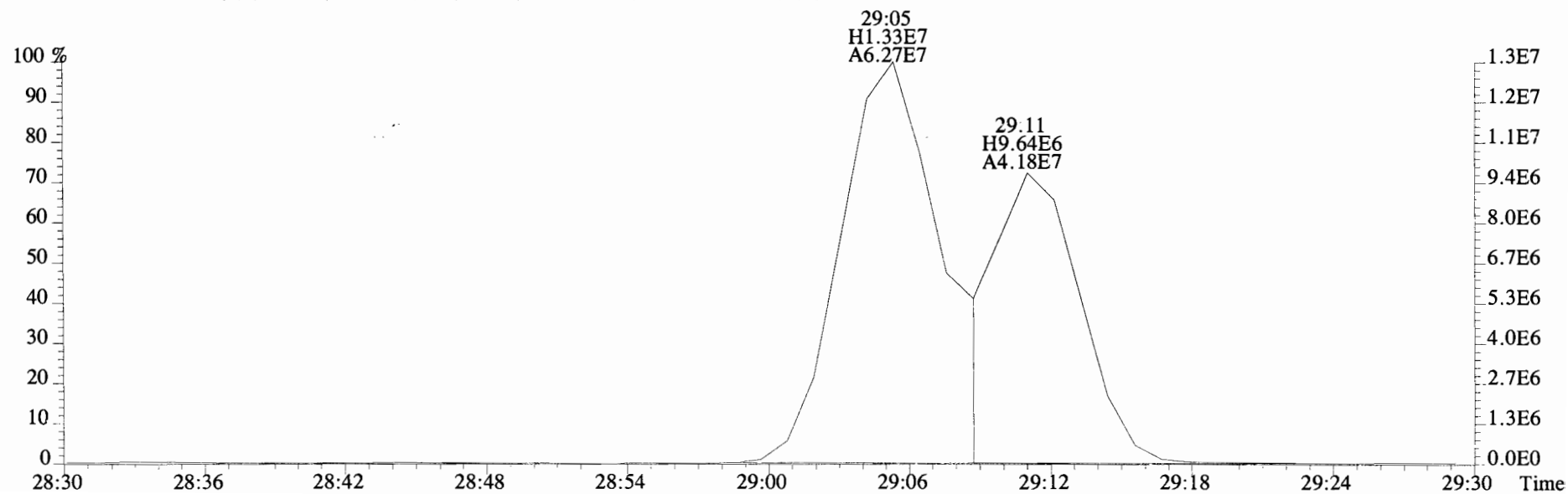
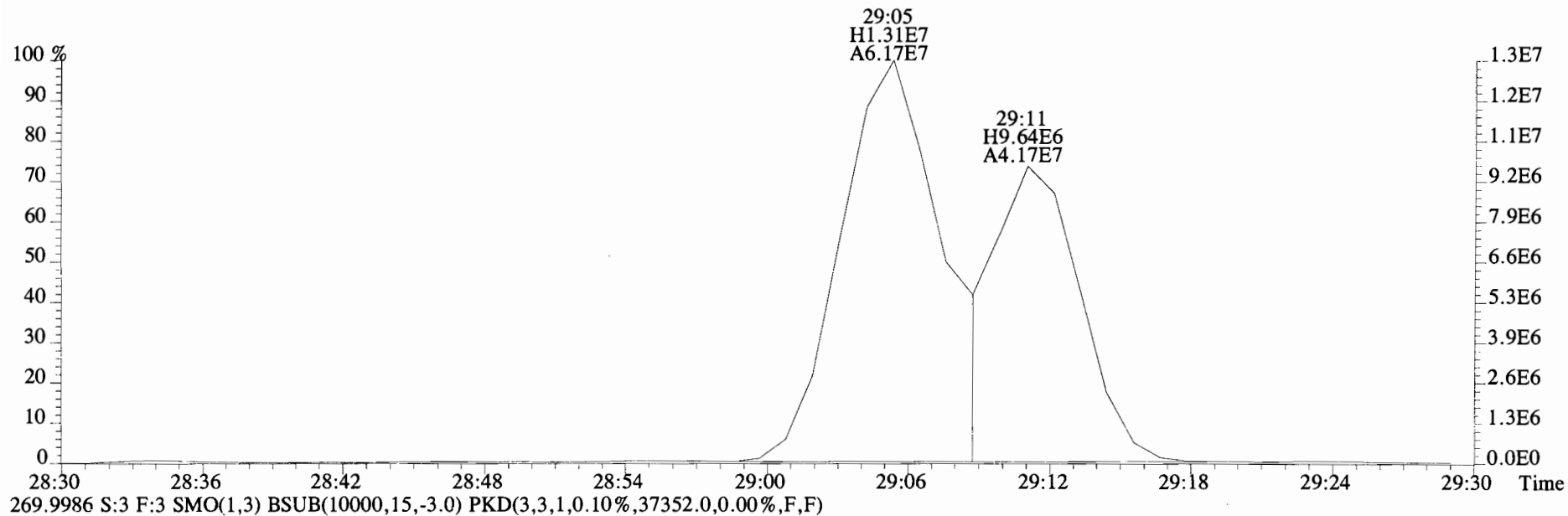


File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
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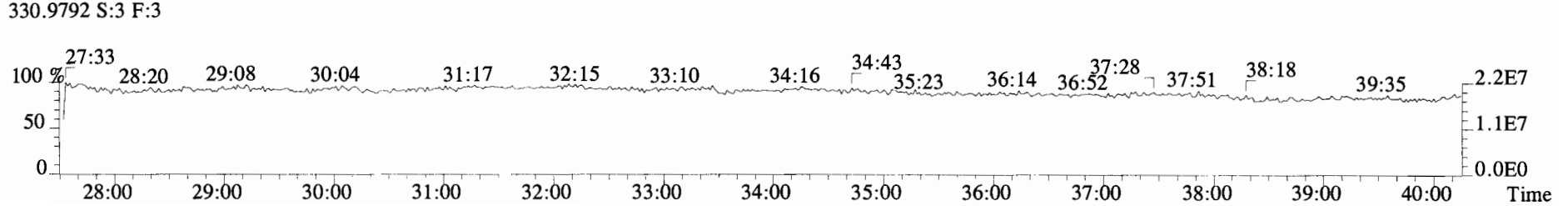
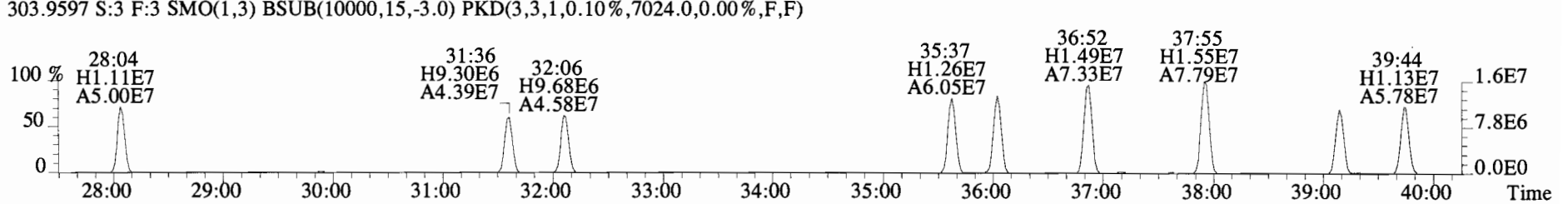
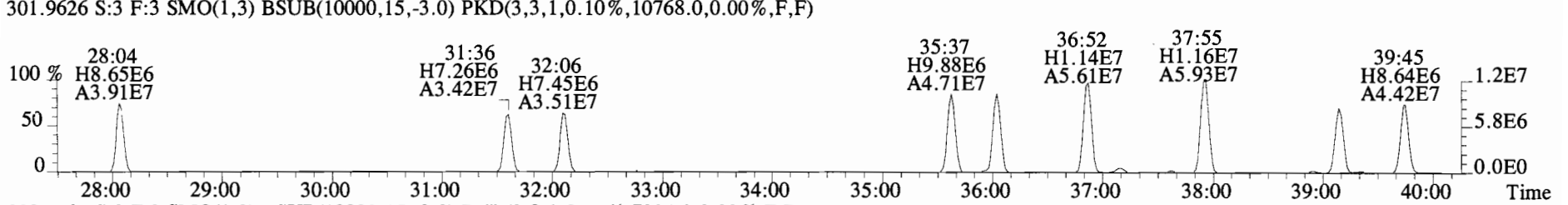
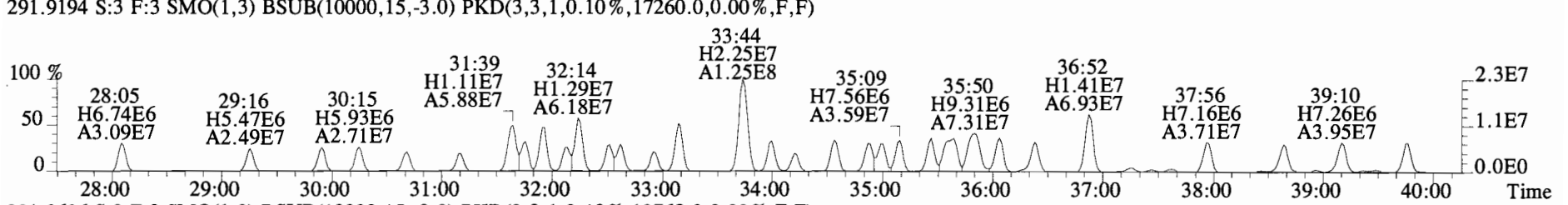
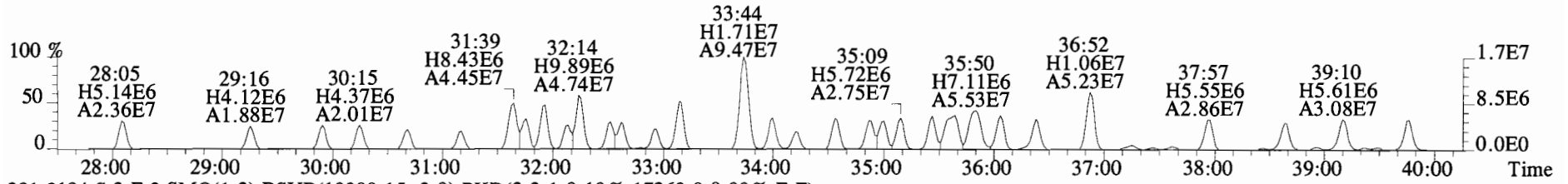




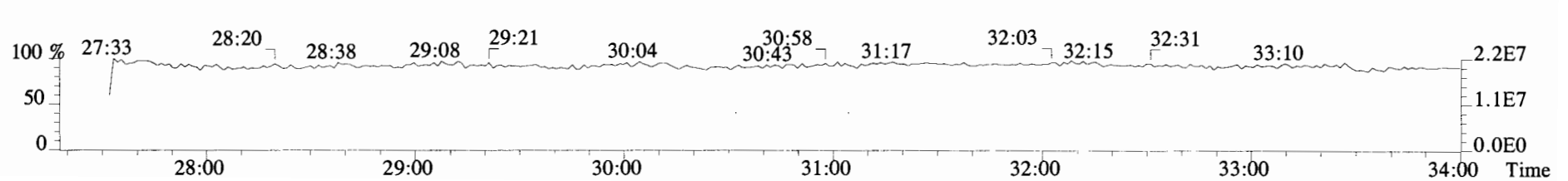
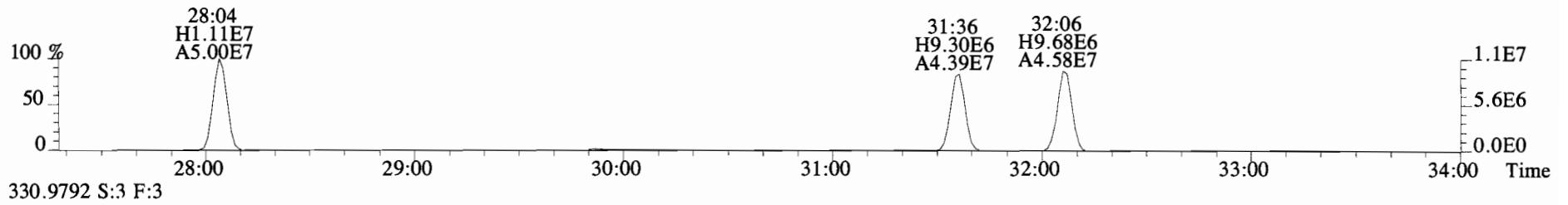
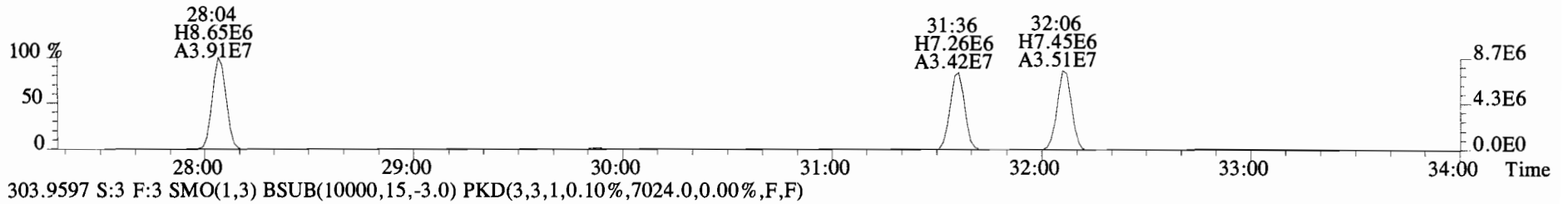
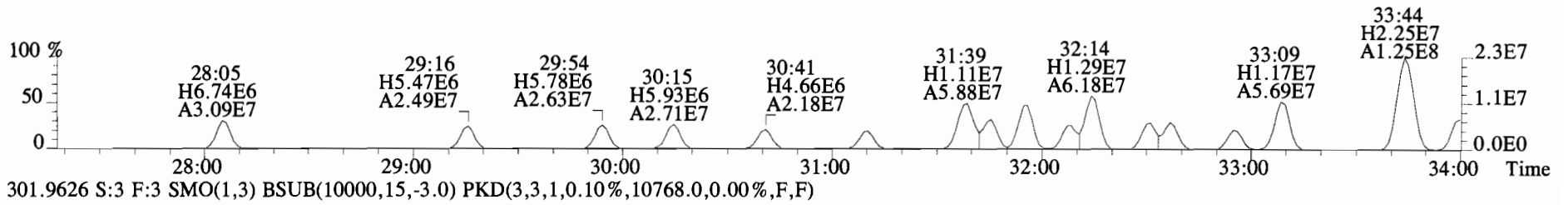
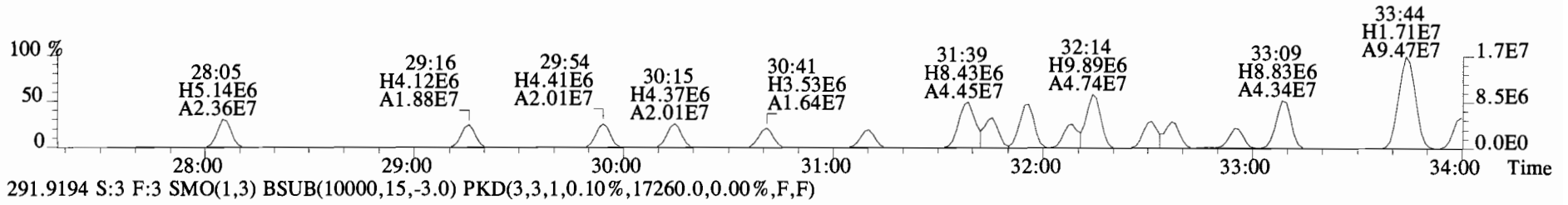
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
268.0016 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,58980.0,0.00%,F,F)



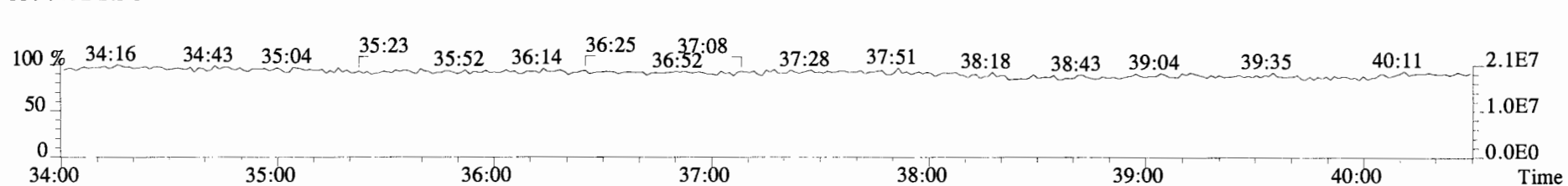
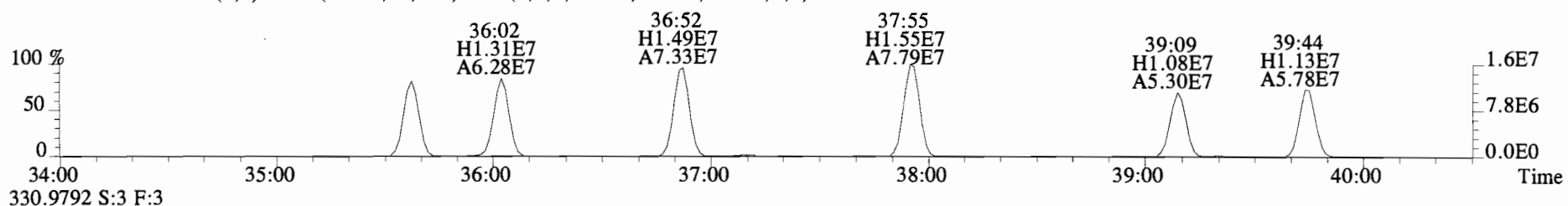
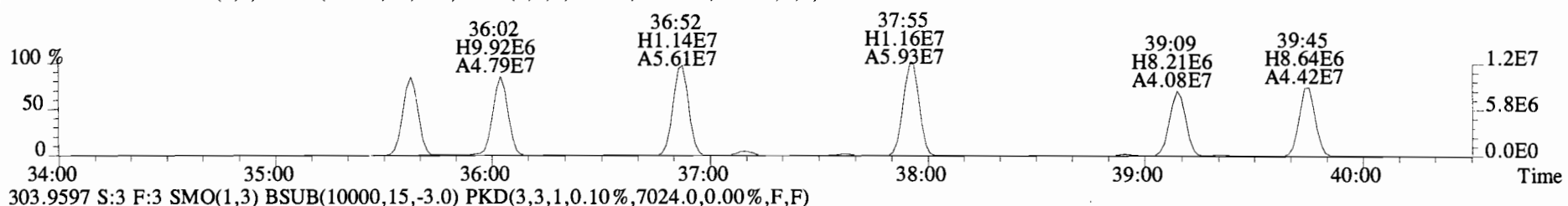
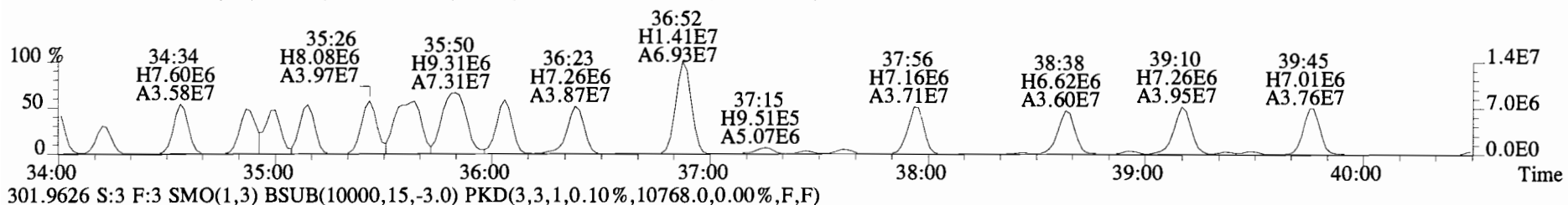
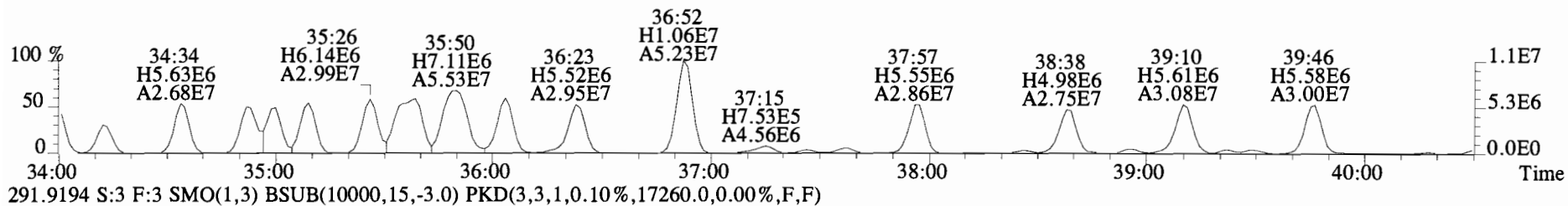
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6112.0,0.00%,F,F)



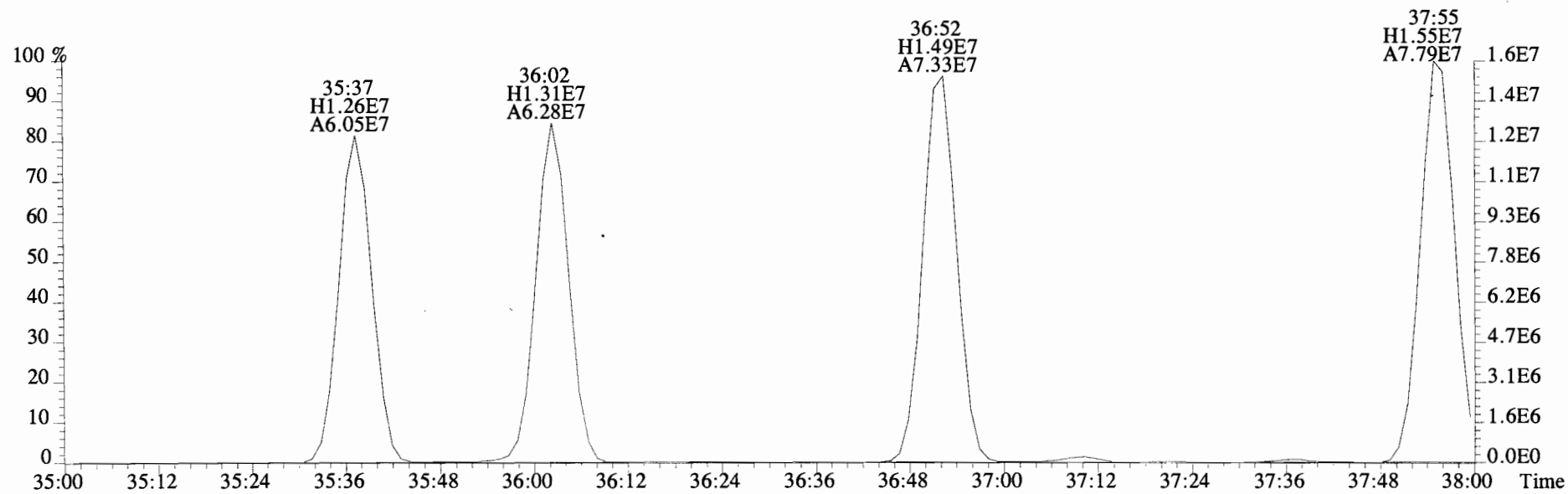
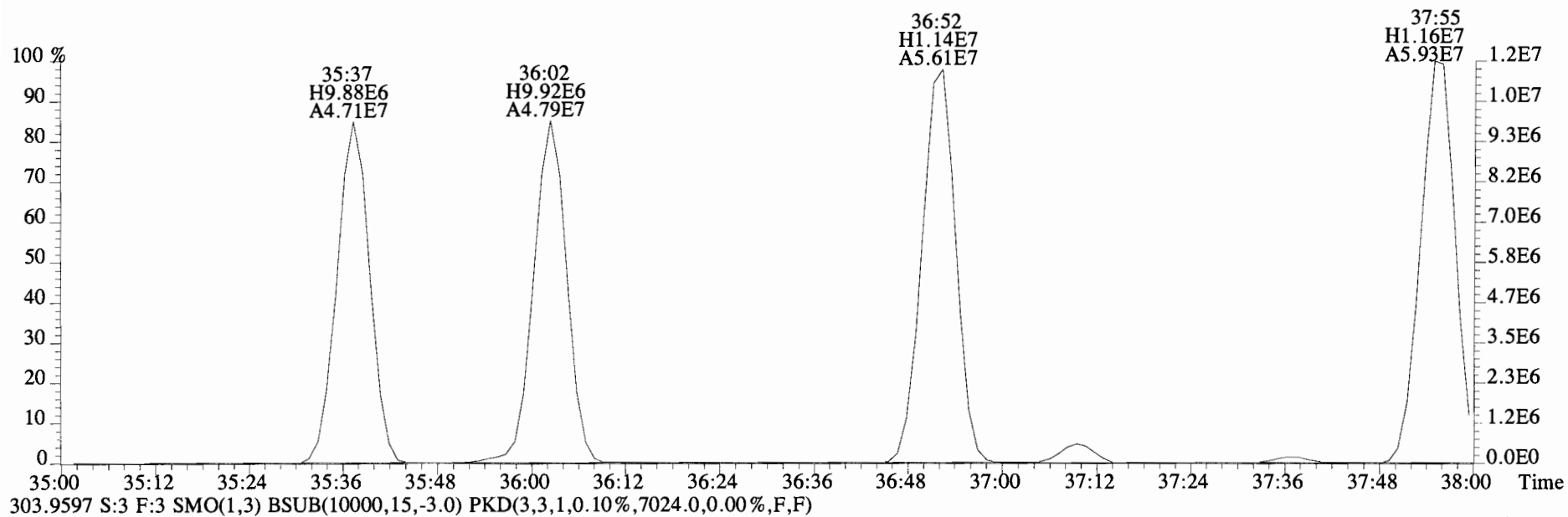
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6112.0,0.00%,F,F)



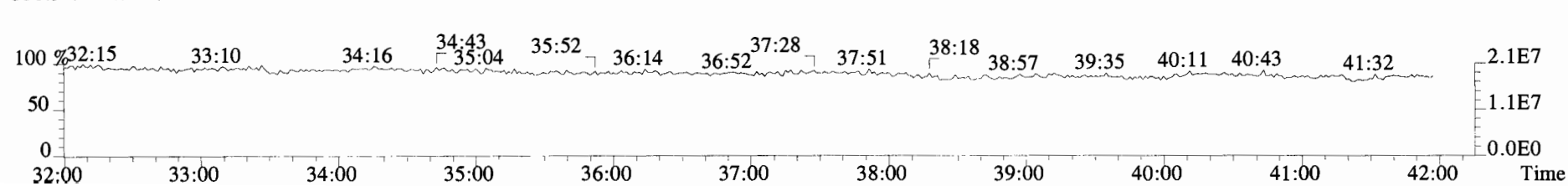
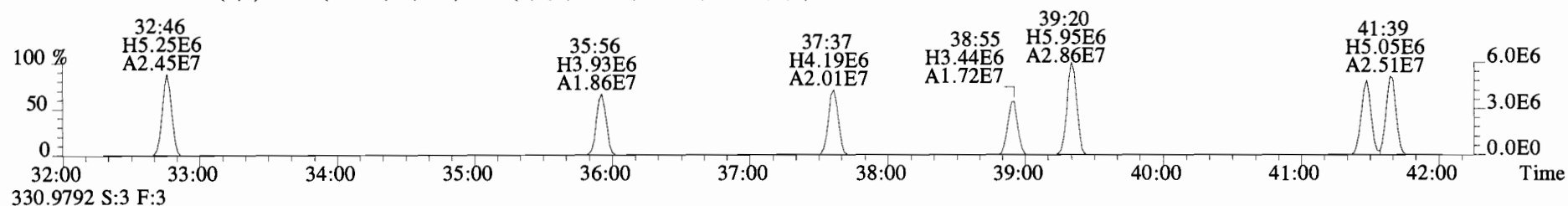
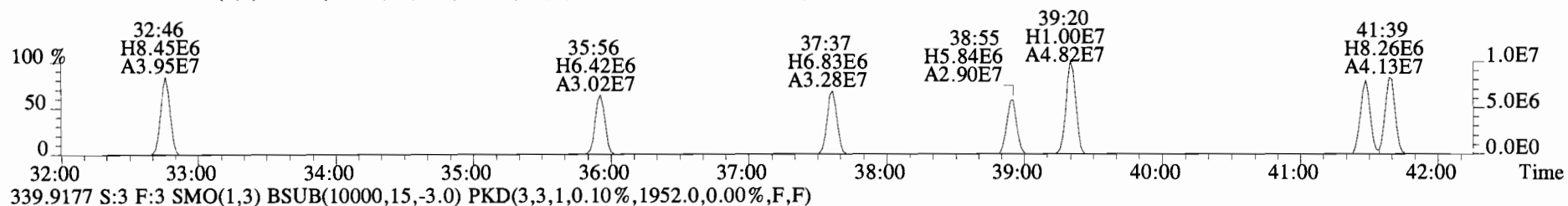
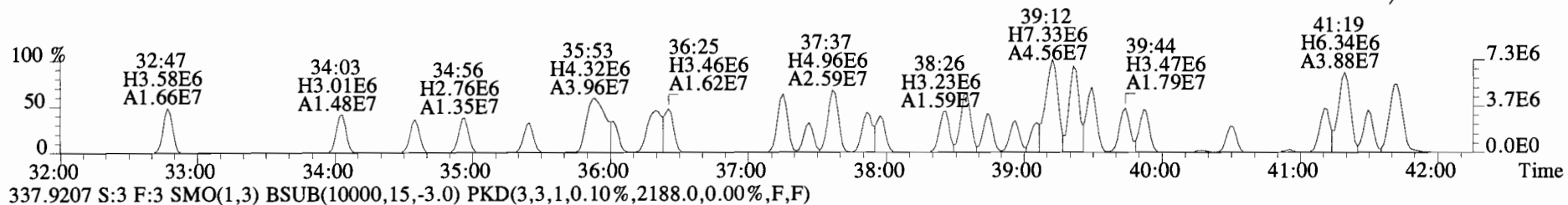
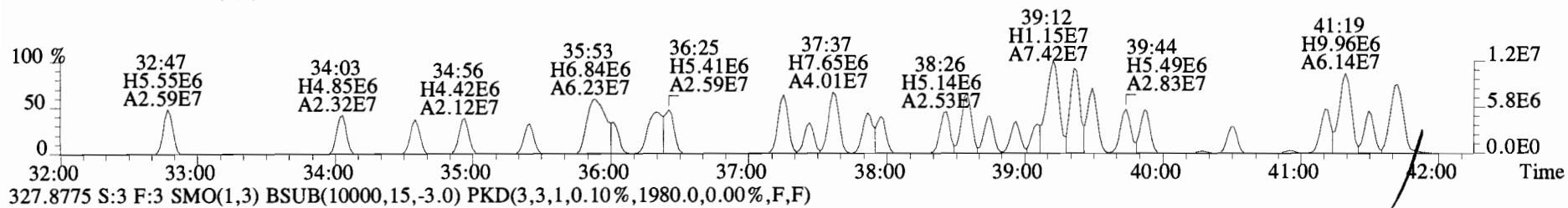
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6112.0,0.00%,F,F)



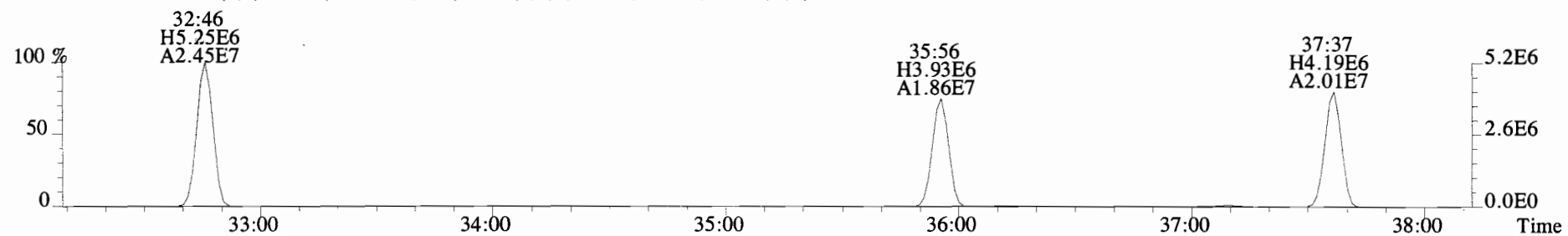
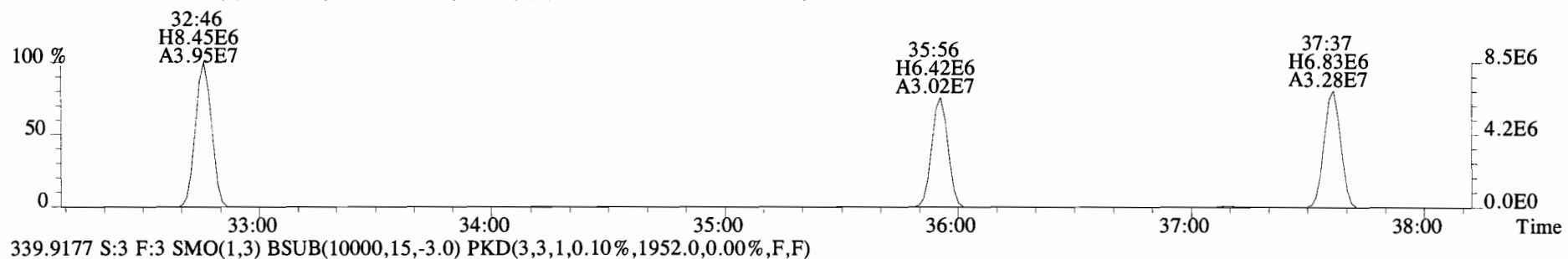
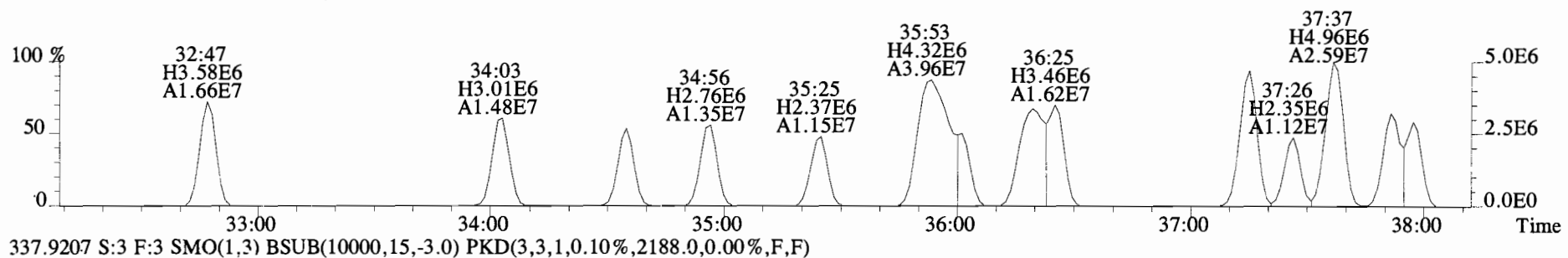
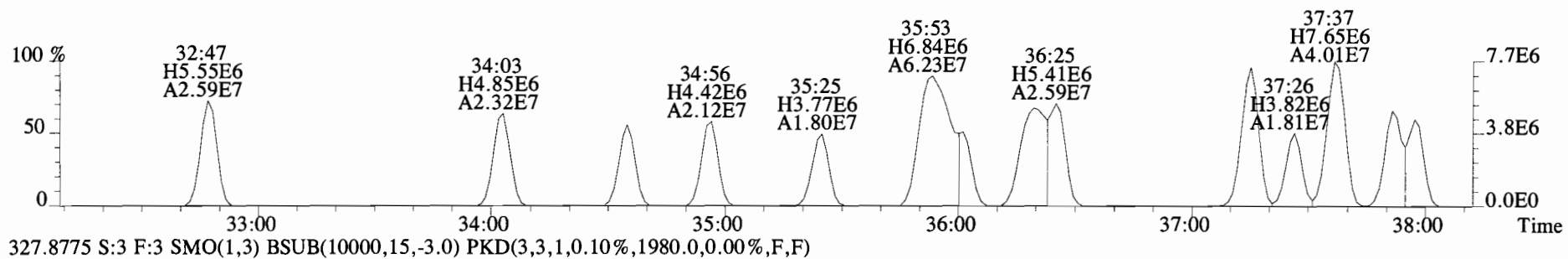
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10768.0,0.00%,F,F)



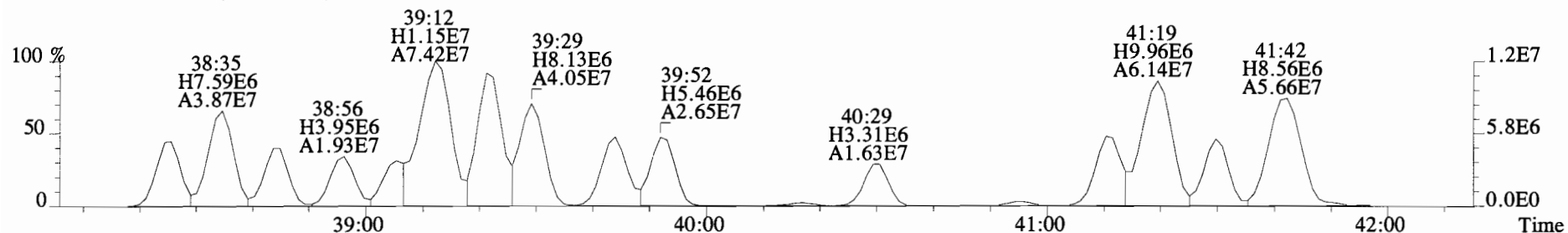
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



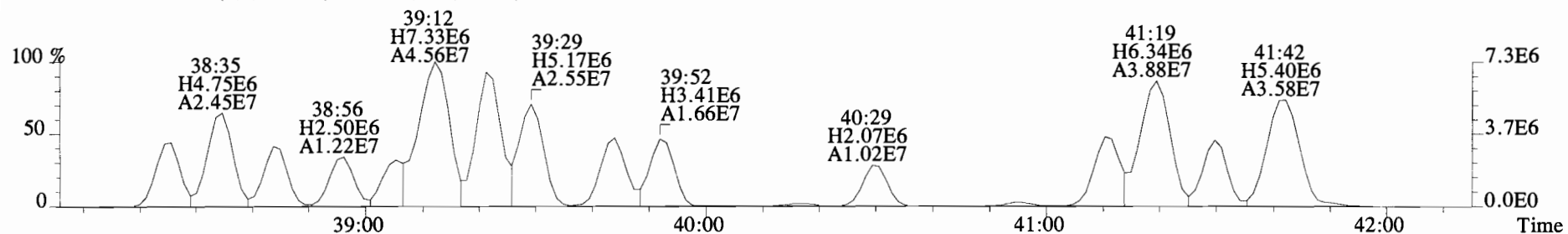
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



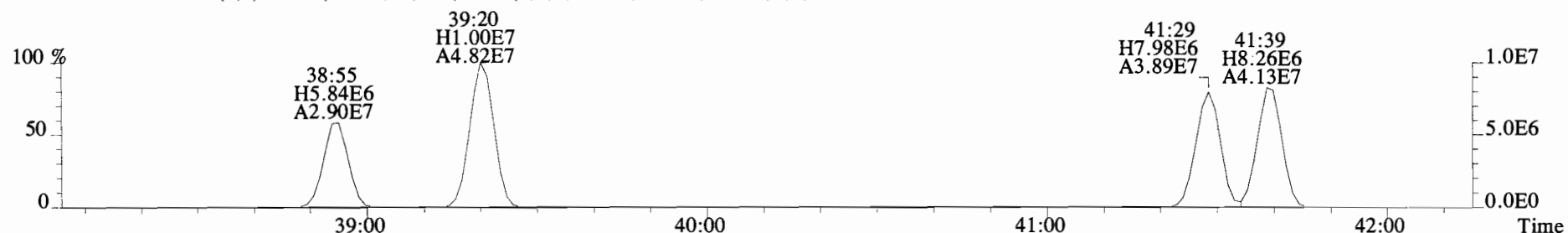
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



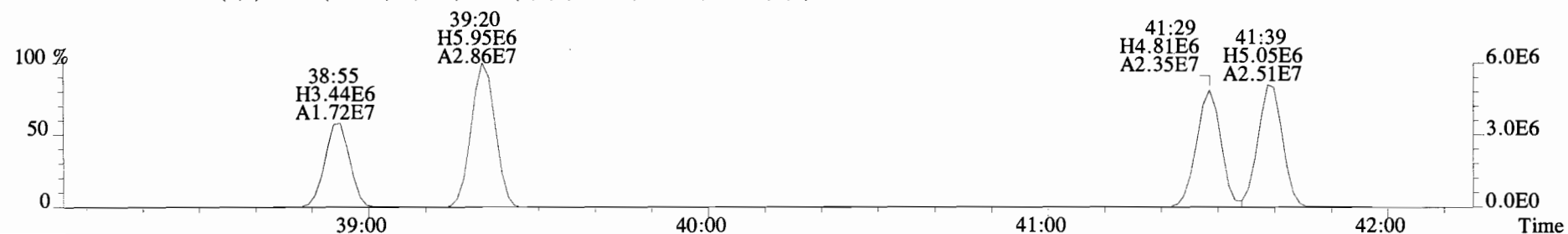
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2188.0,0.00%,F,F)

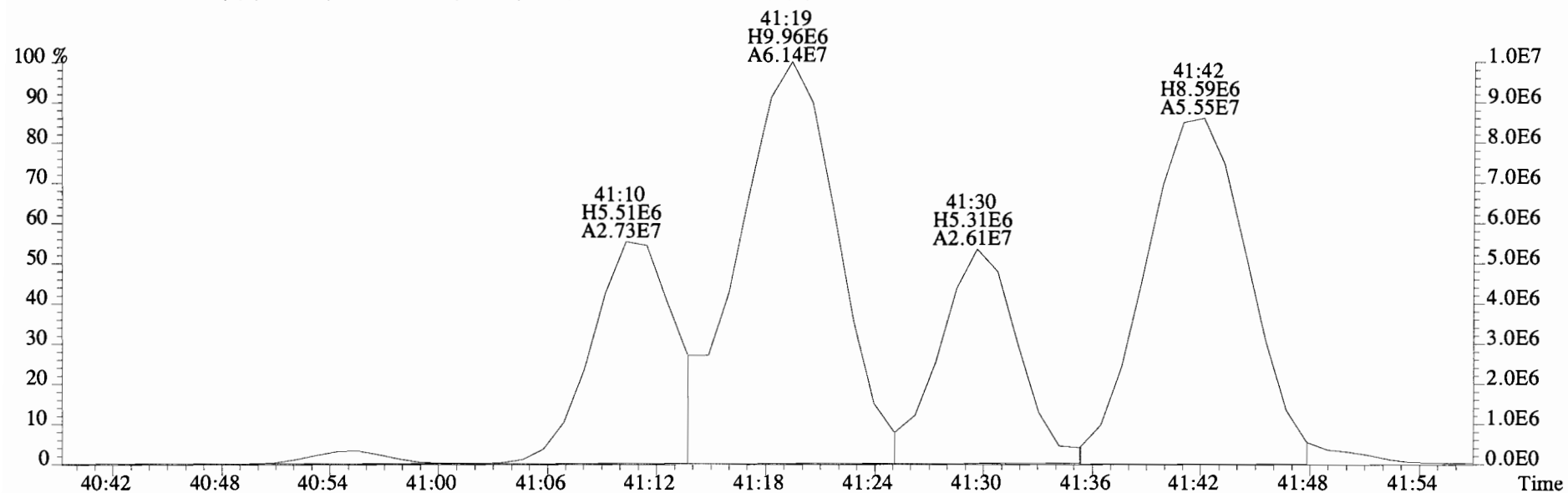


339.9177 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)

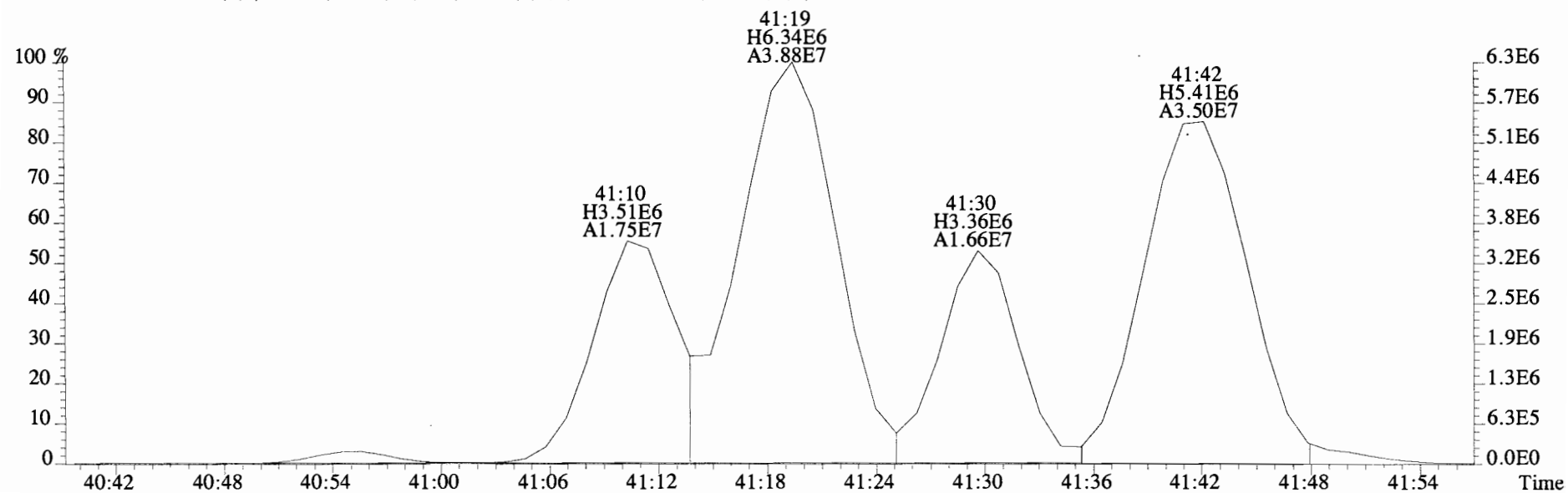




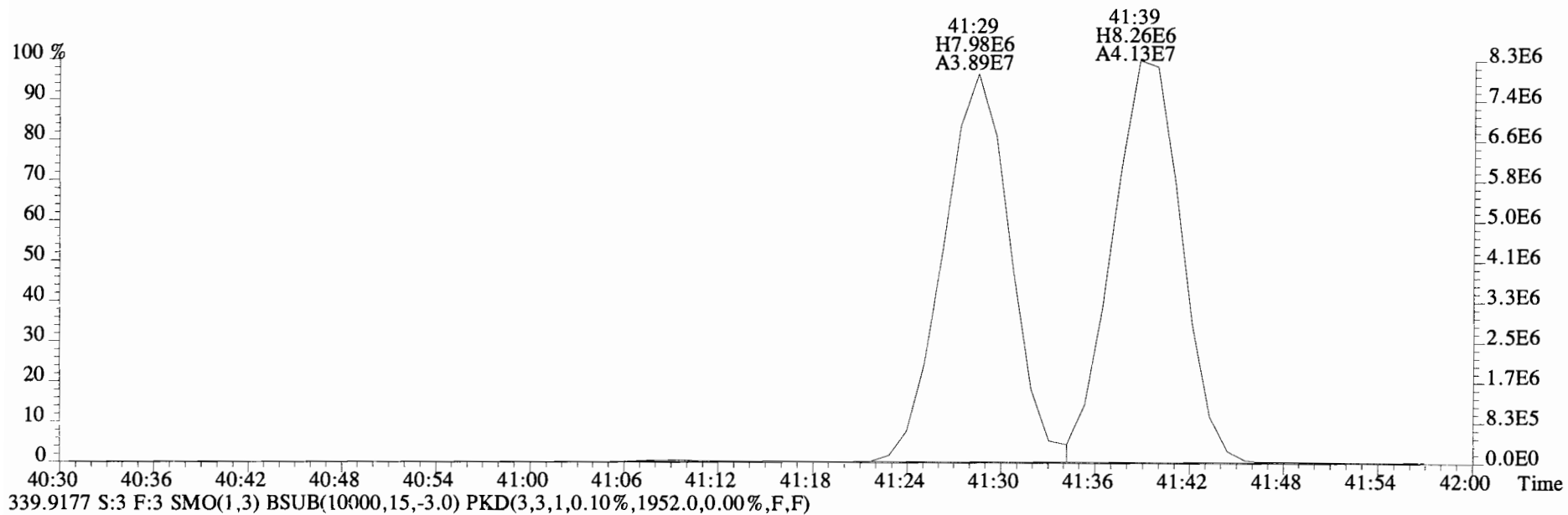
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



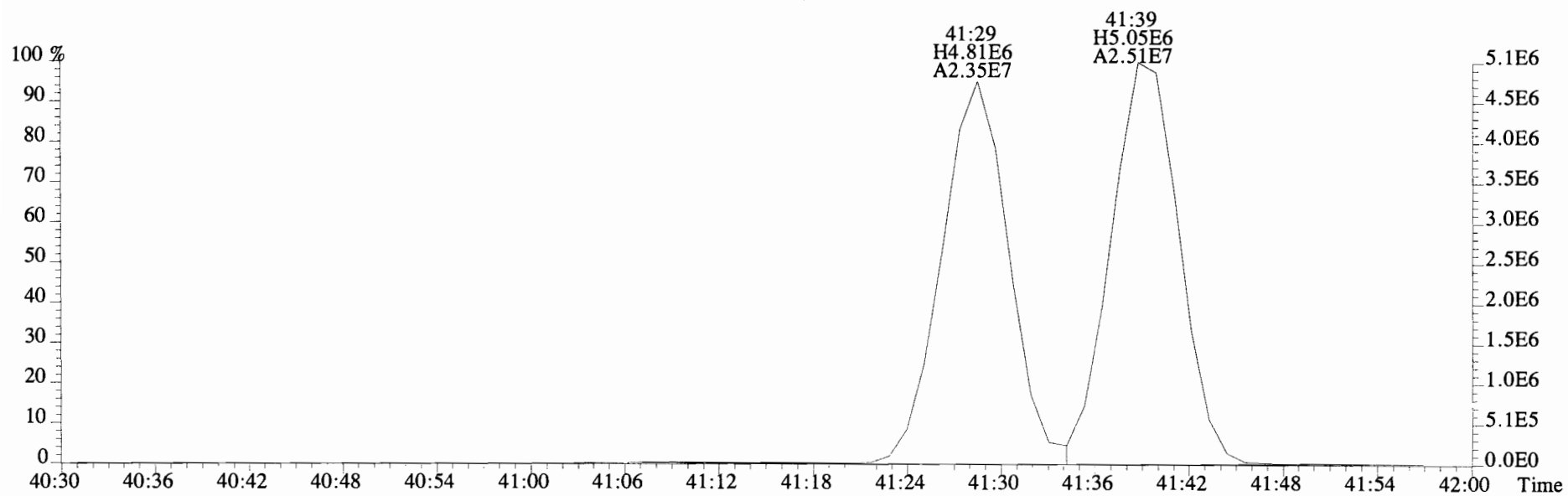
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



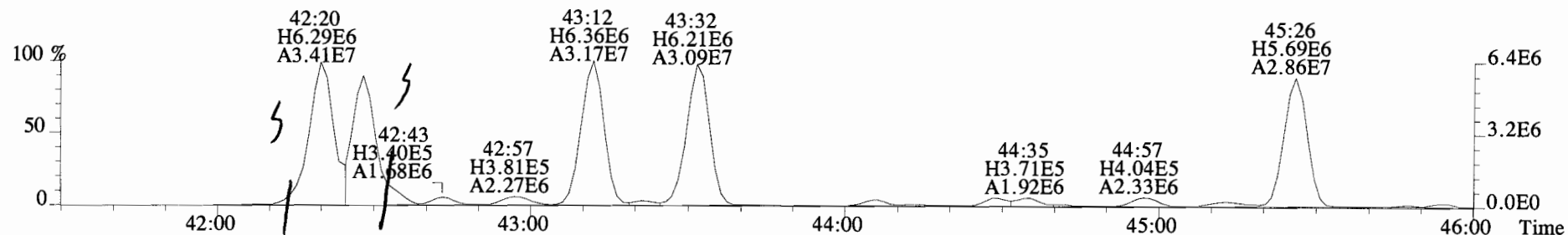
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2188.0,0.00%,F,F)



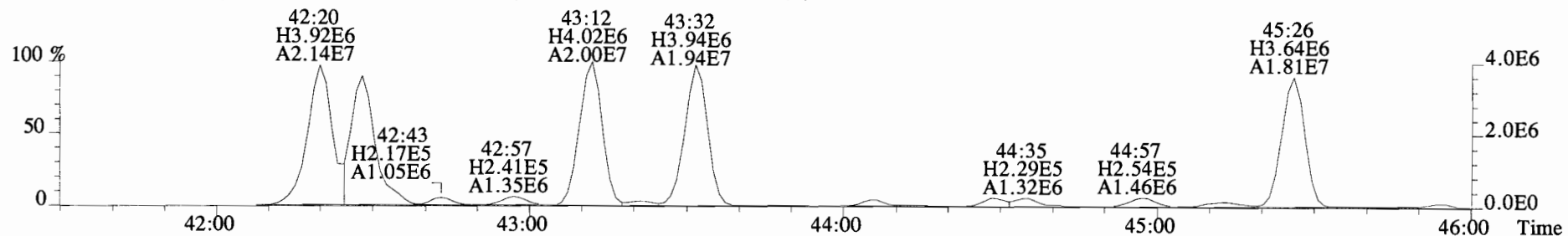
339.9177 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



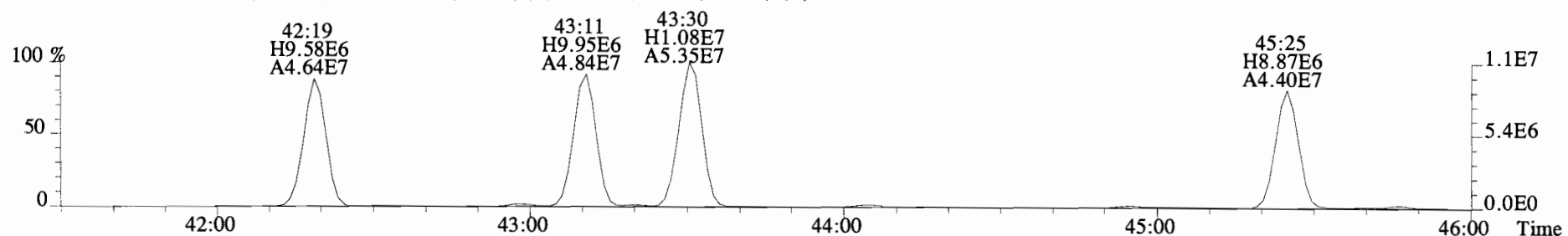
File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8040.0,0.00%,F,F)



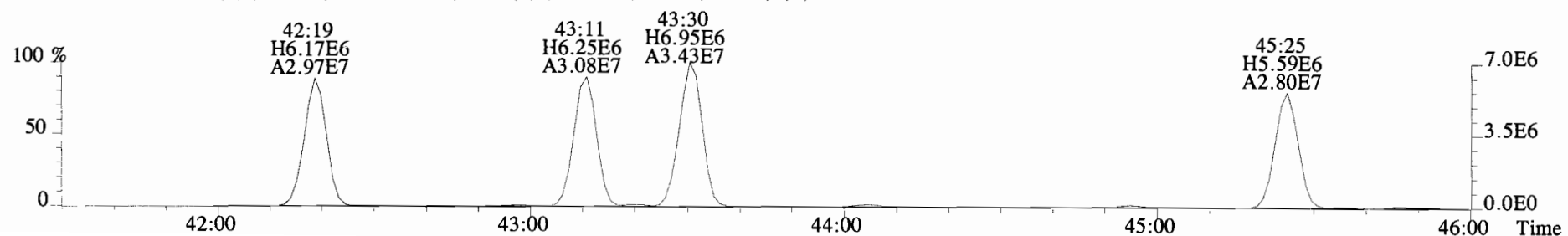
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6772.0,0.00%,F,F)



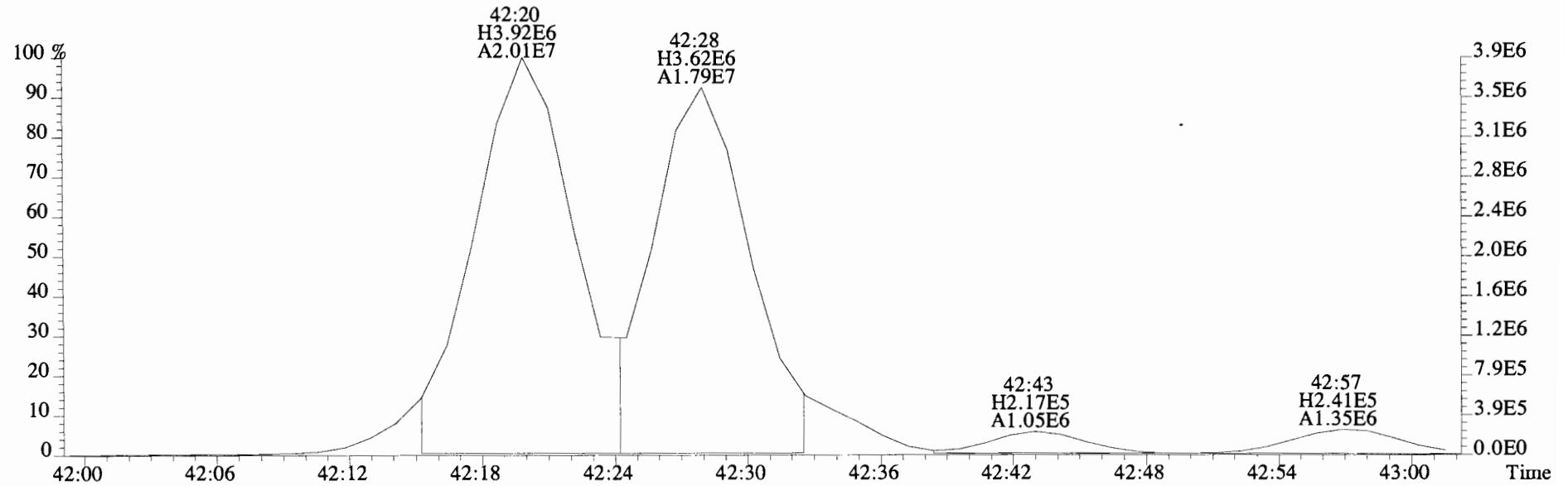
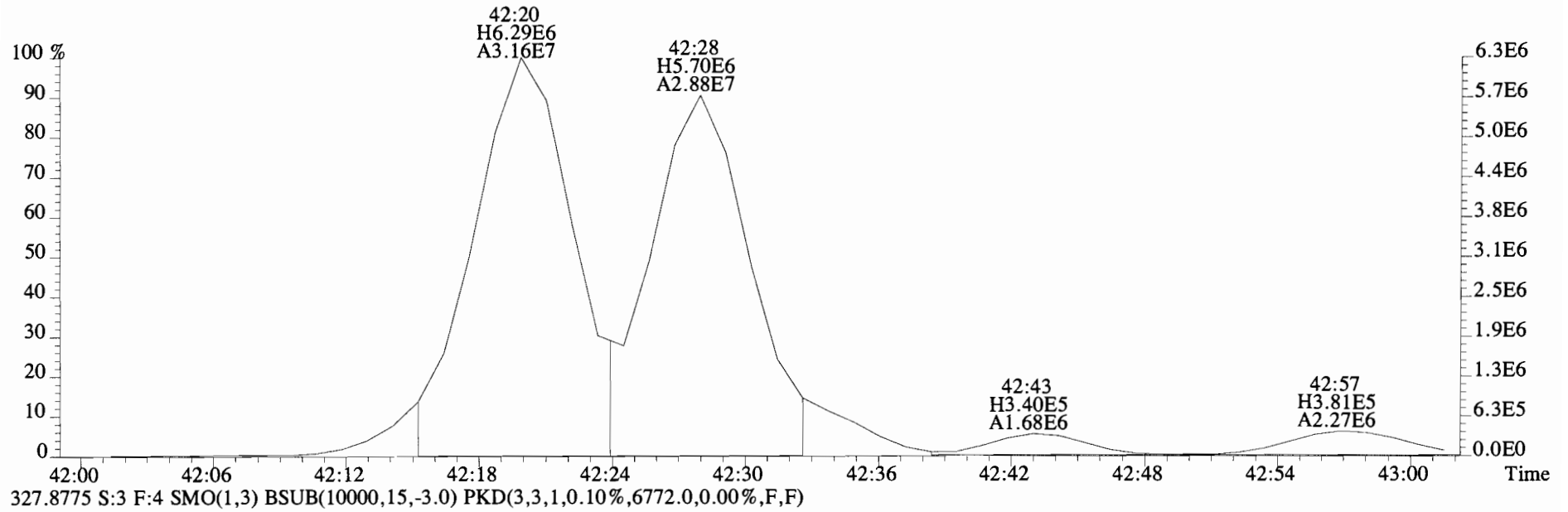
337.9207 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7108.0,0.00%,F,F)



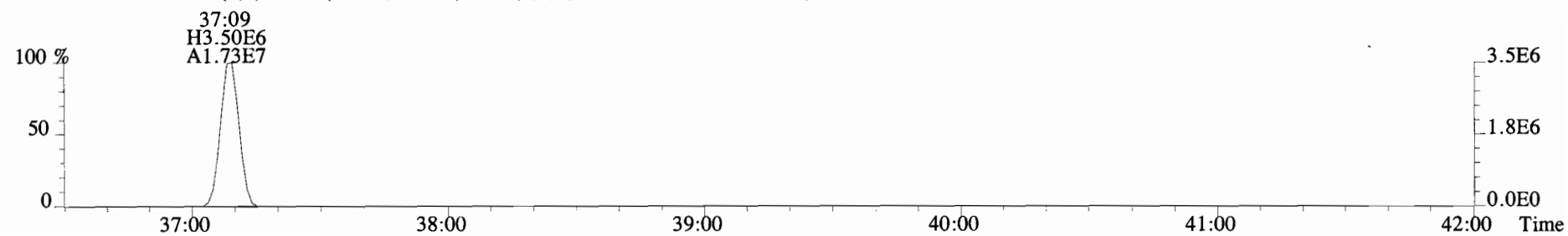
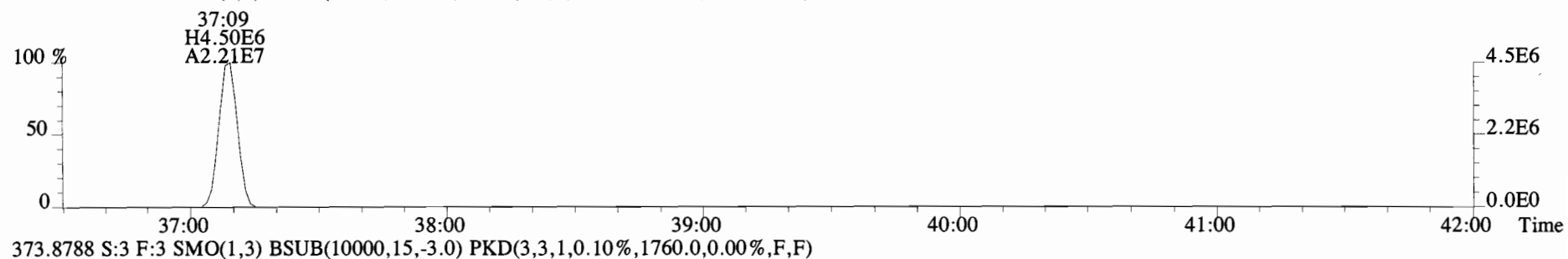
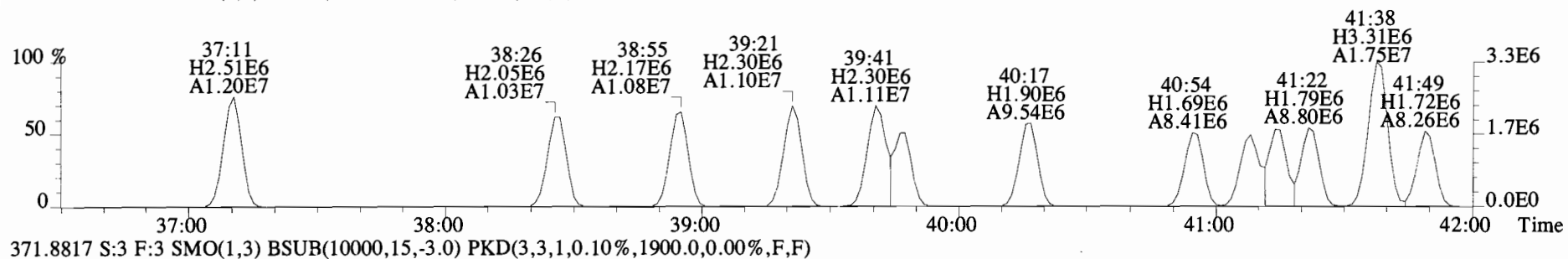
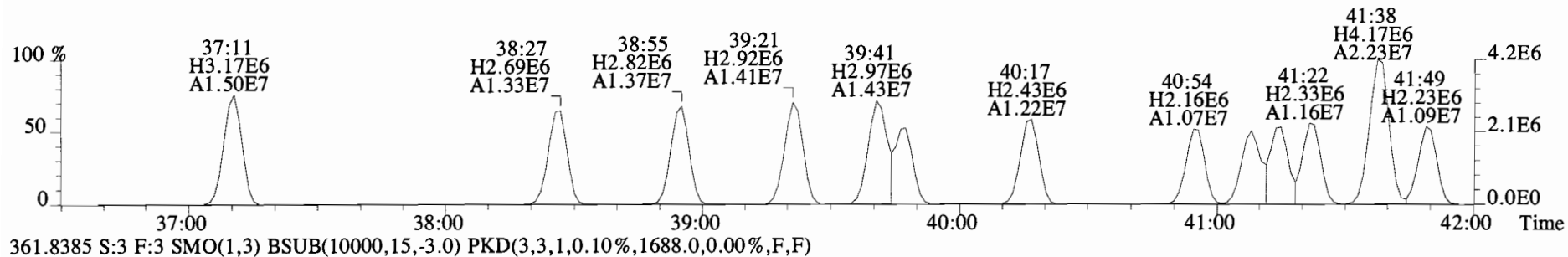
339.9177 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6736.0,0.00%,F,F)



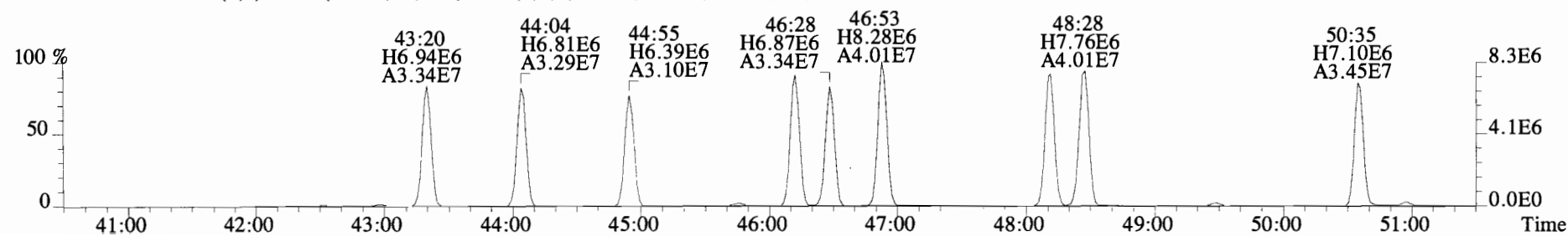
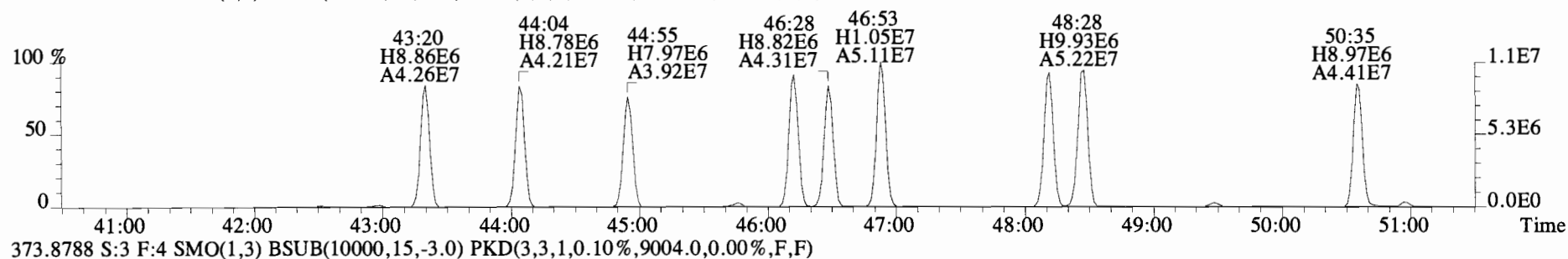
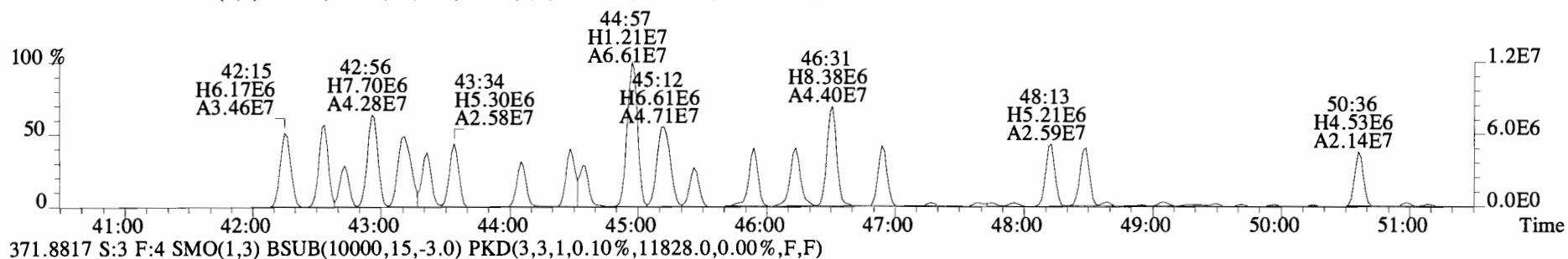
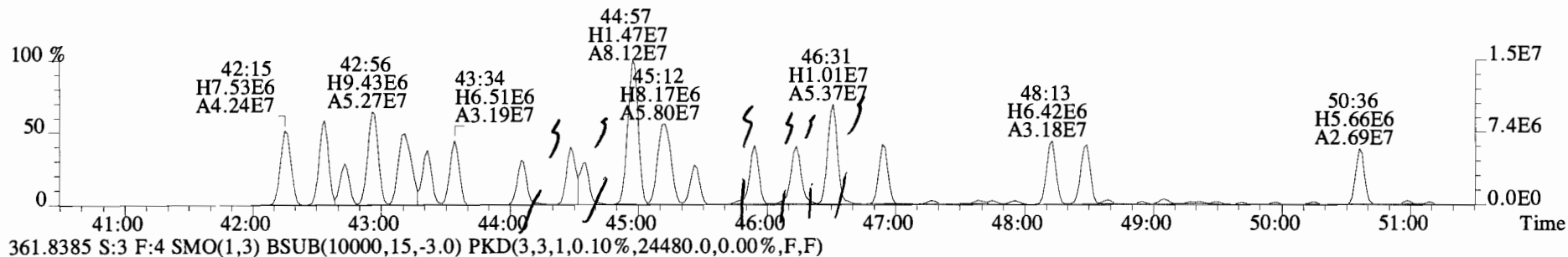
File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8040.0,0.00%,F,F)



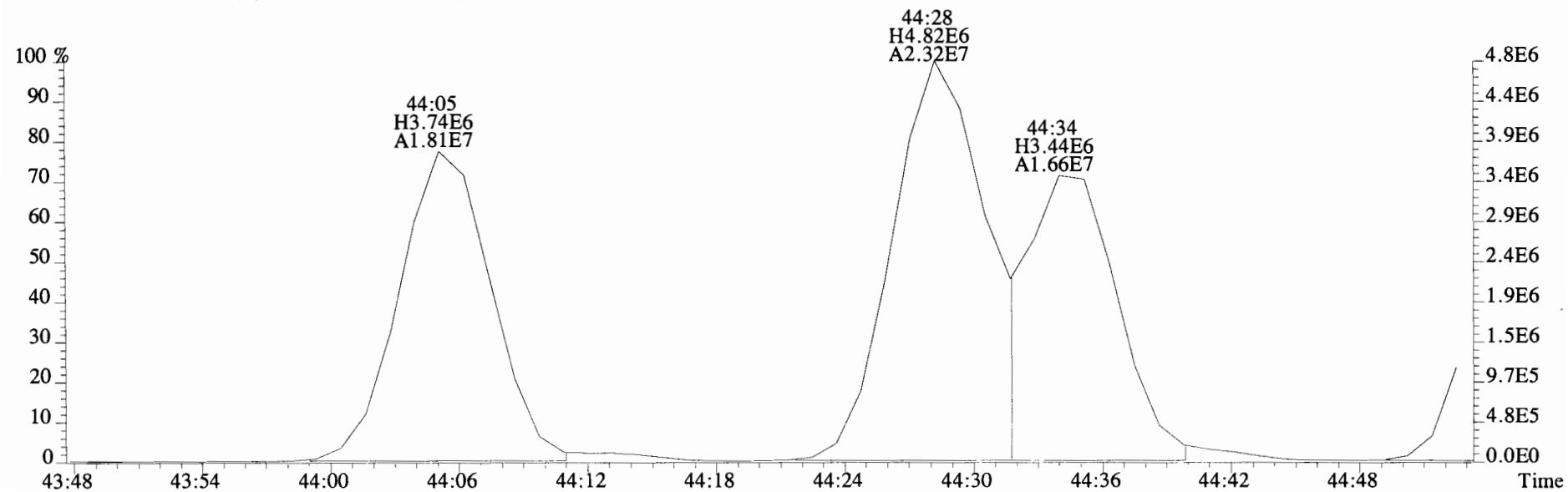
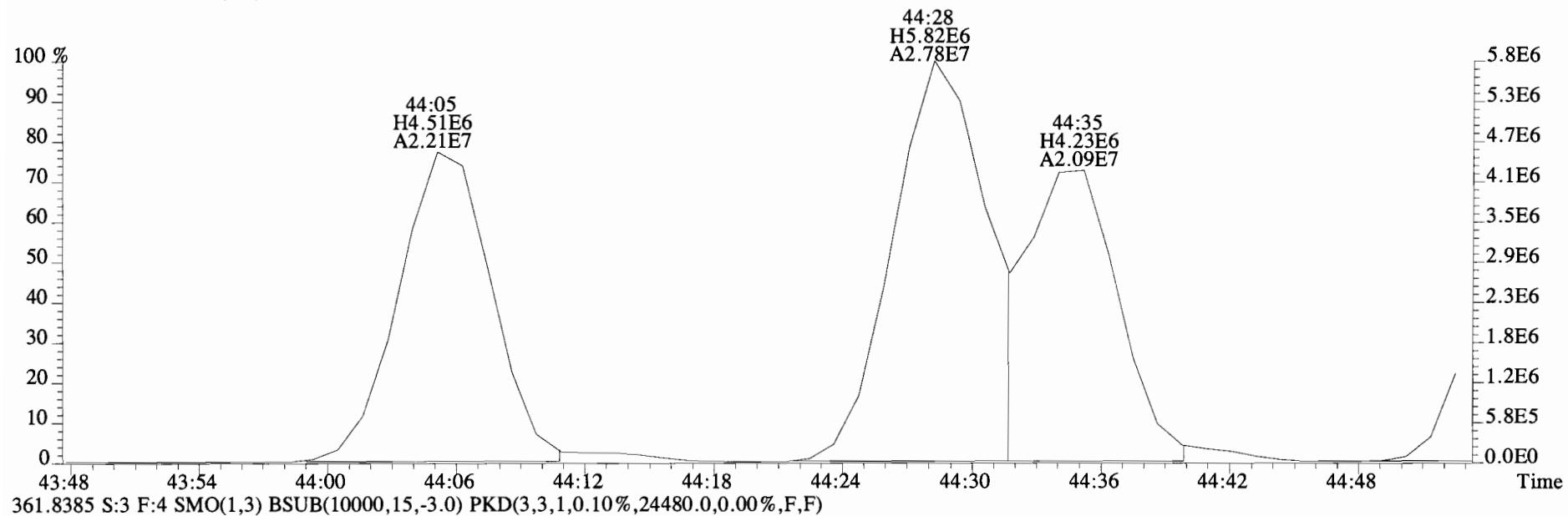
File:140925E1 #1-762 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



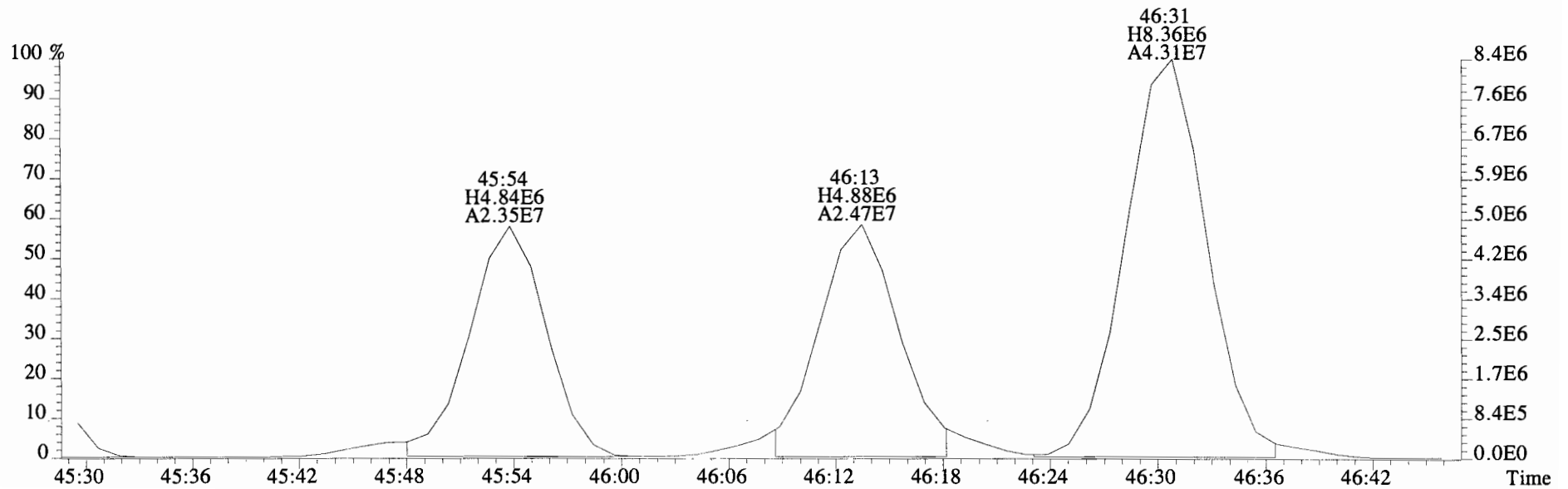
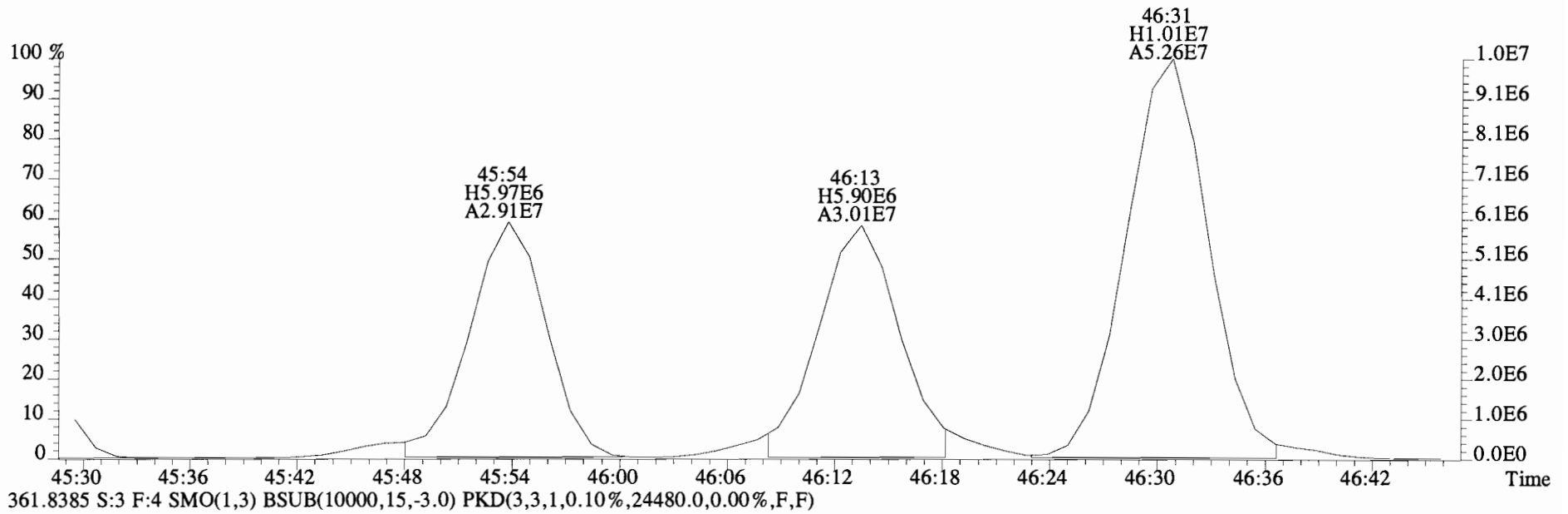
File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27444.0,0.00%,F,F)



File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27444.0,0.00%,F,F)

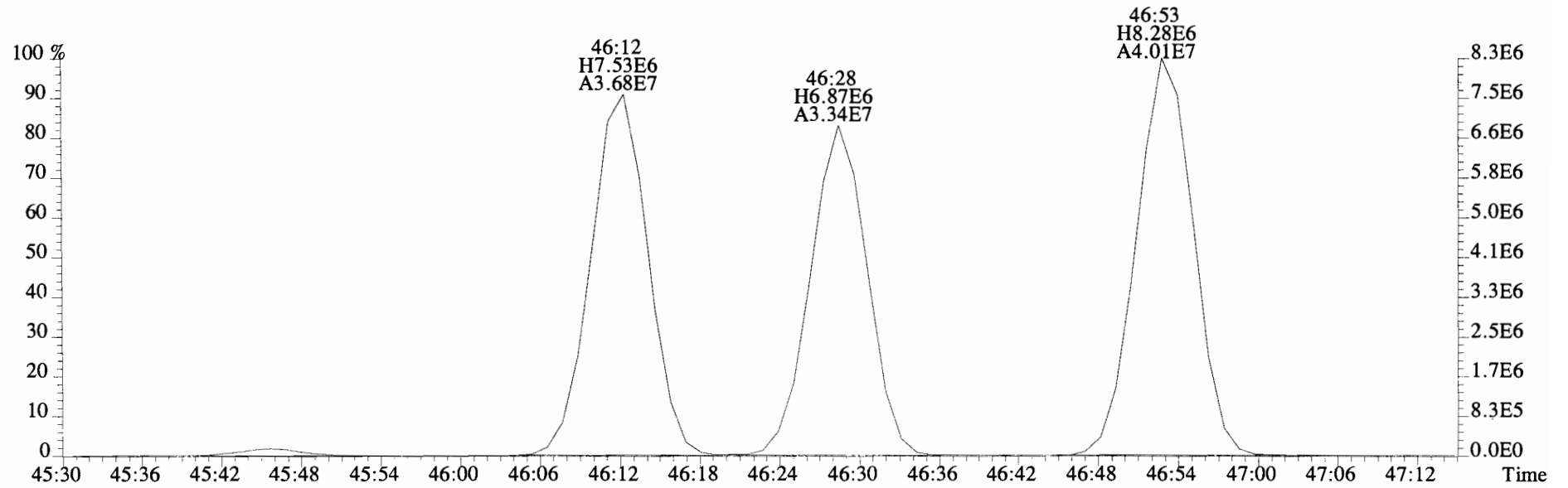
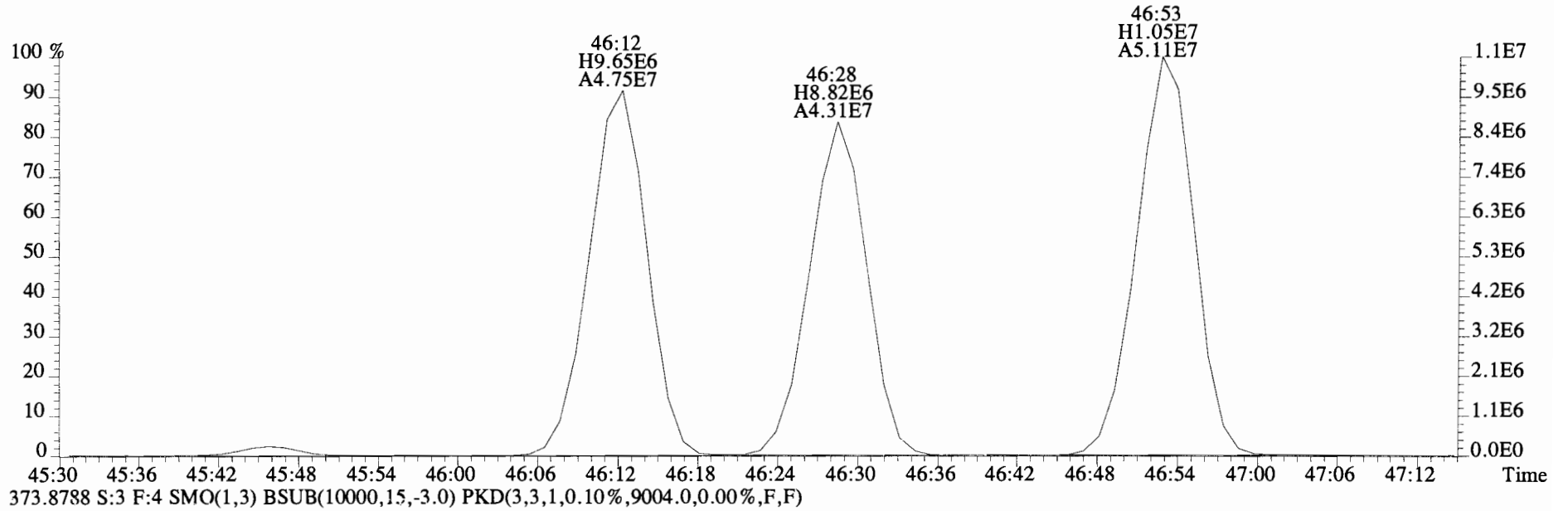


File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27444.0,0.00%,F,F)

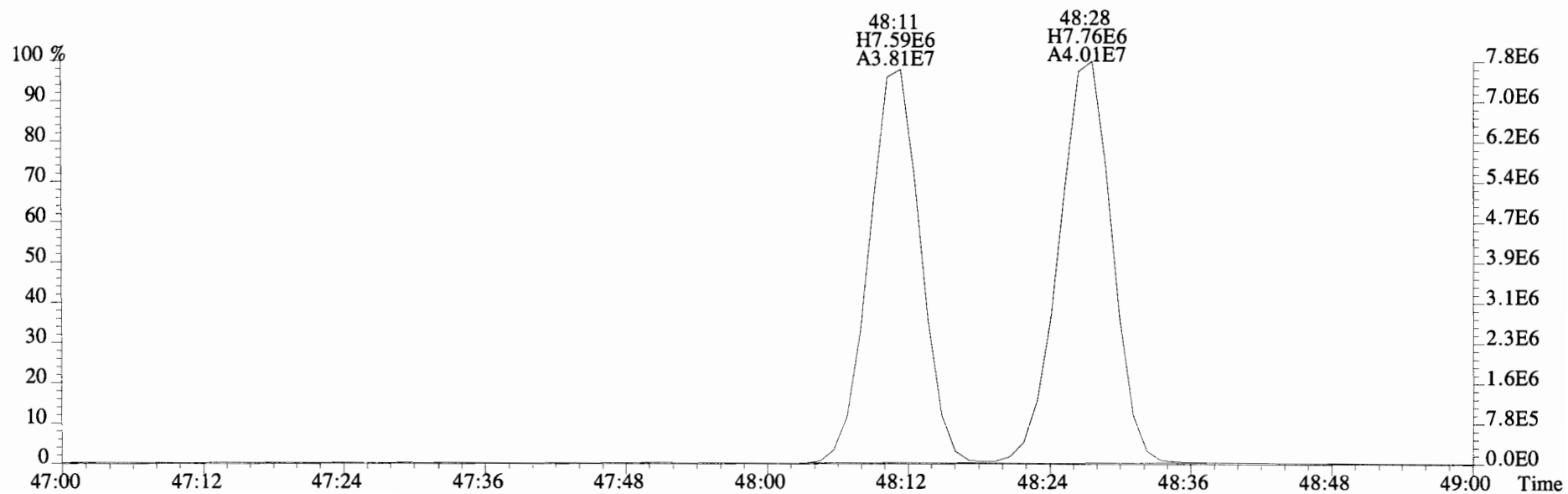
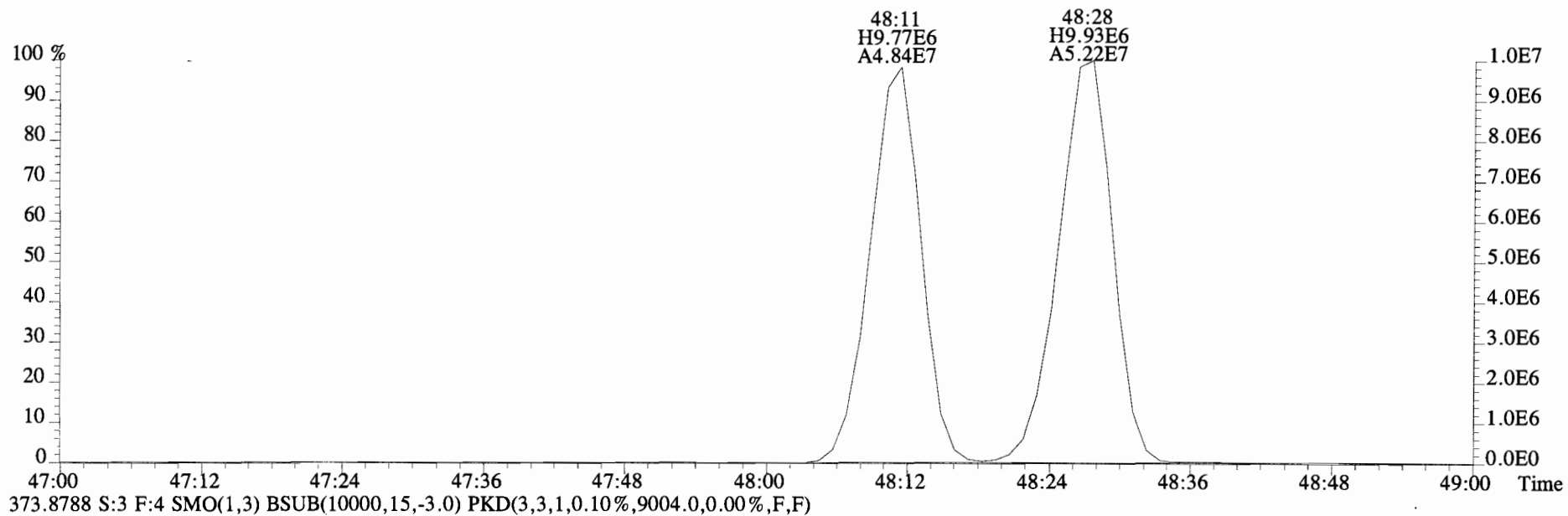




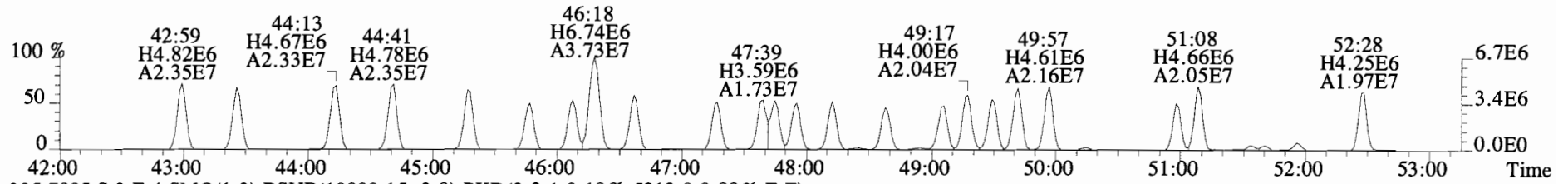
File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11828.0,0.00%,F,F)



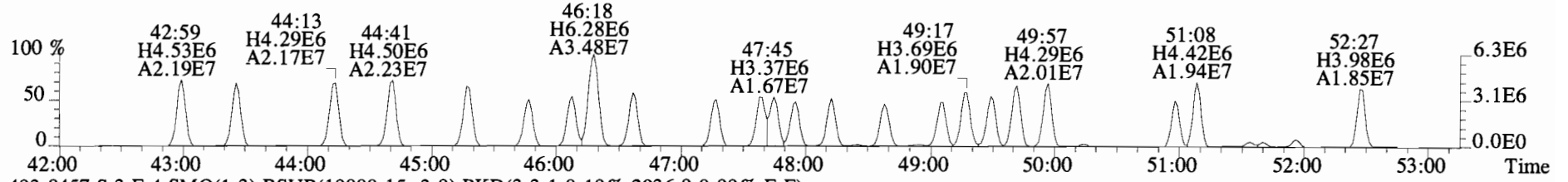
File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11828.0,0.00%,F,F)



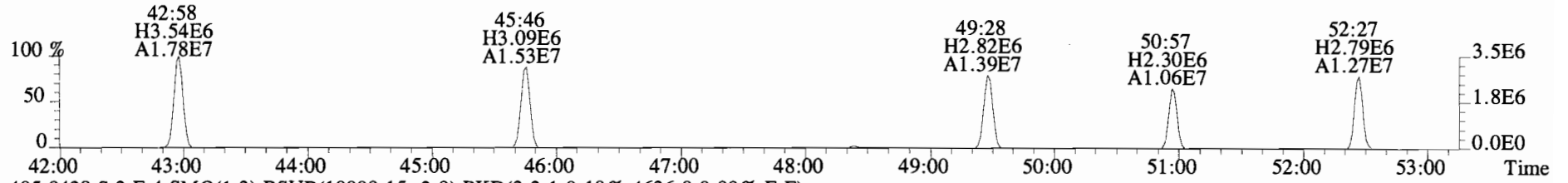
File:140925E1 #1-560 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4456.0,0.00%,F,F)



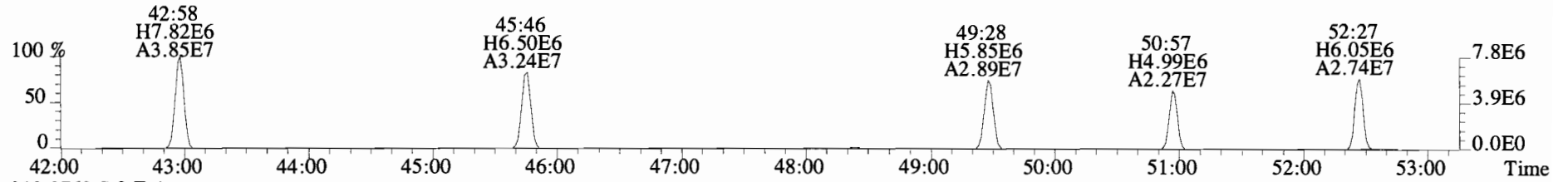
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5212.0,0.00%,F,F)



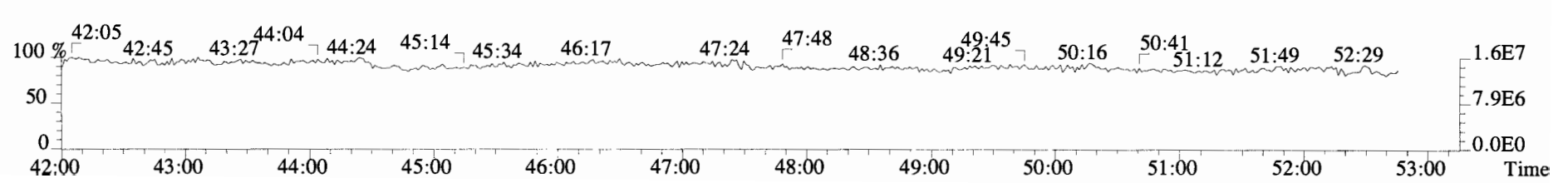
403.8457 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



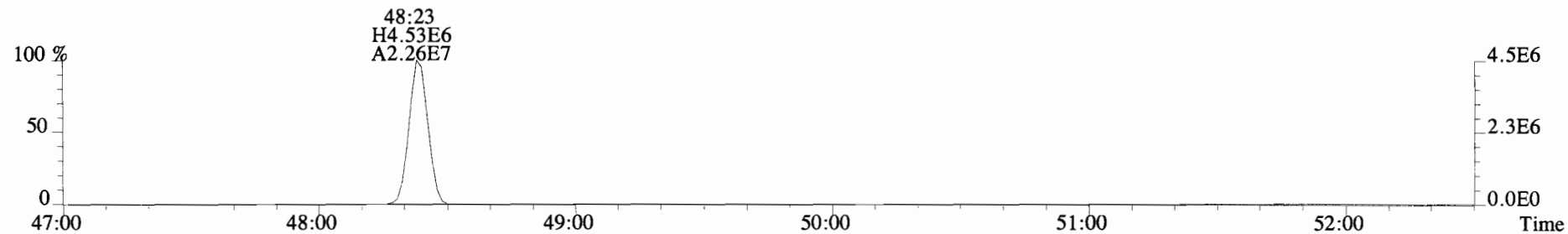
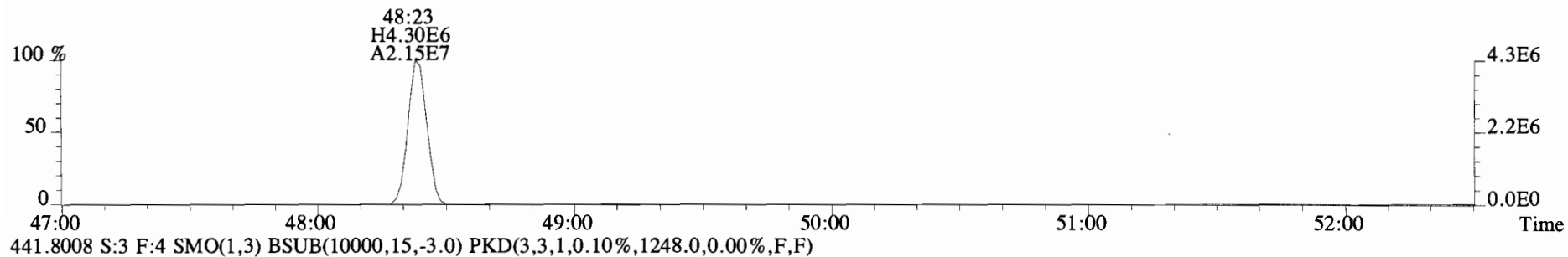
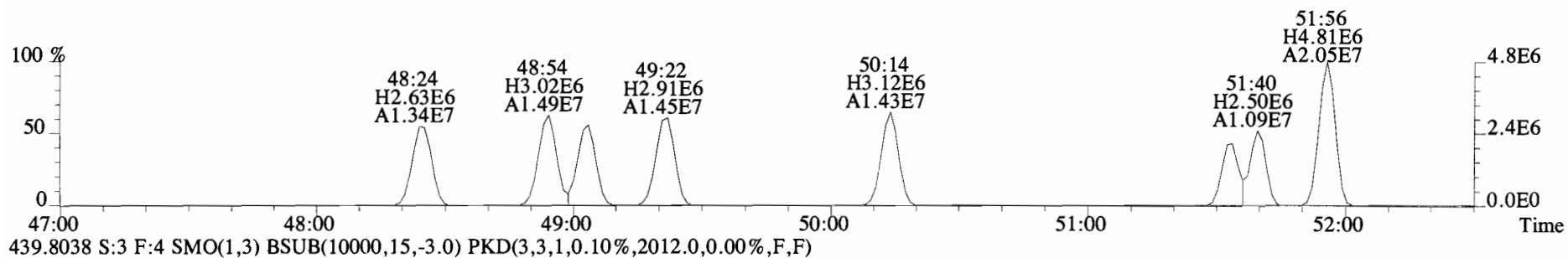
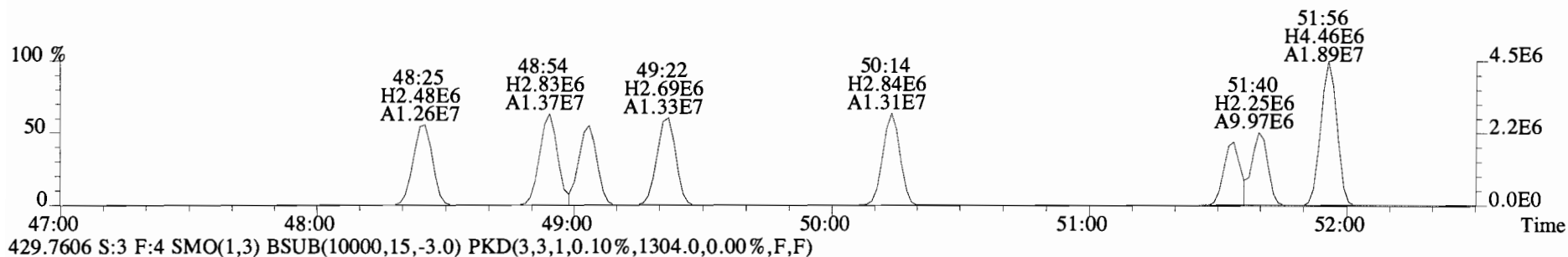
405.8428 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4636.0,0.00%,F,F)



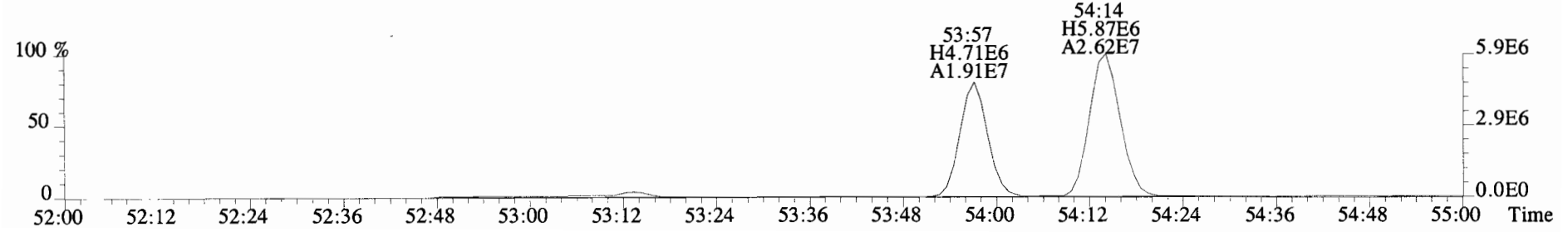
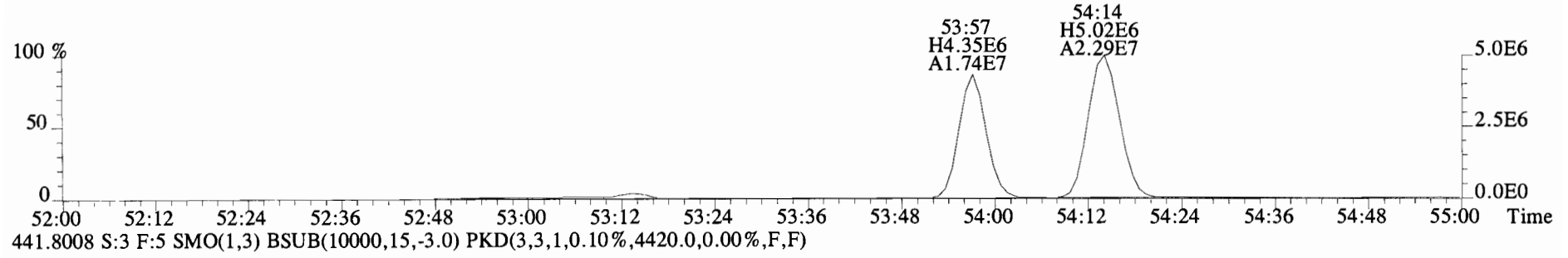
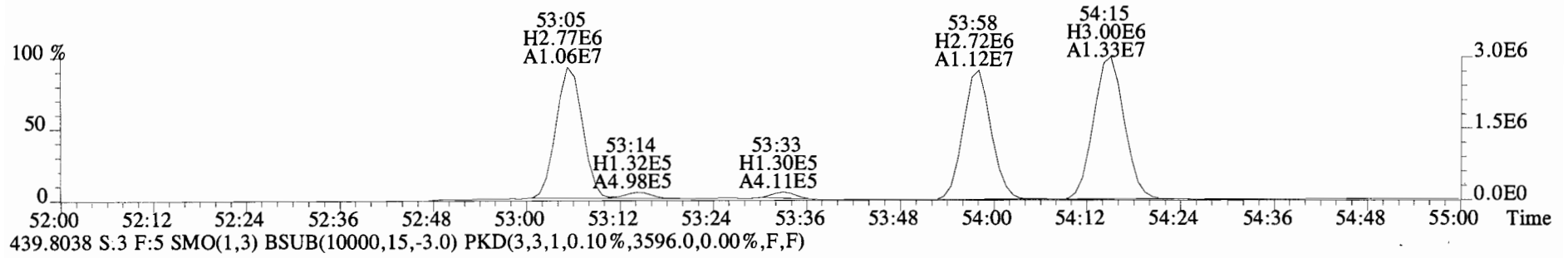
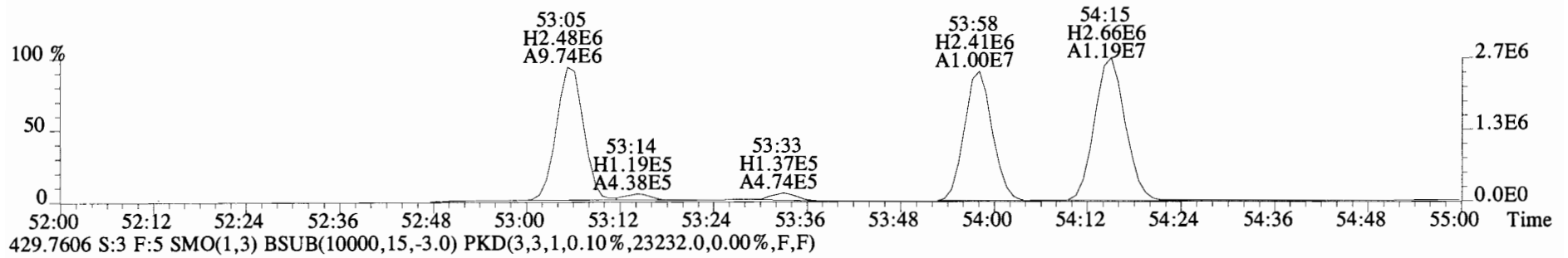
380.9760 S:3 F:4



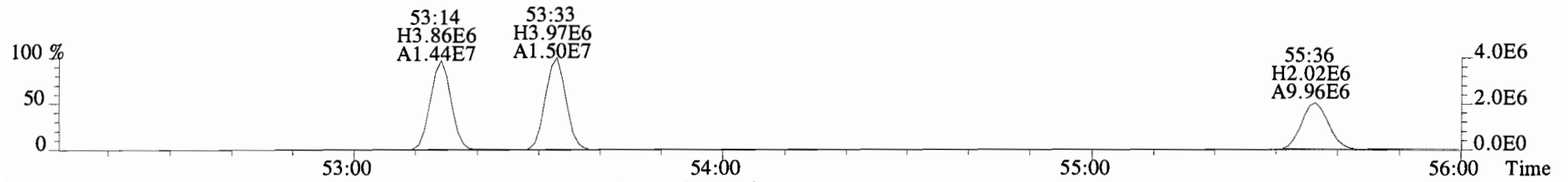
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1112.0,0.00%,F,F)



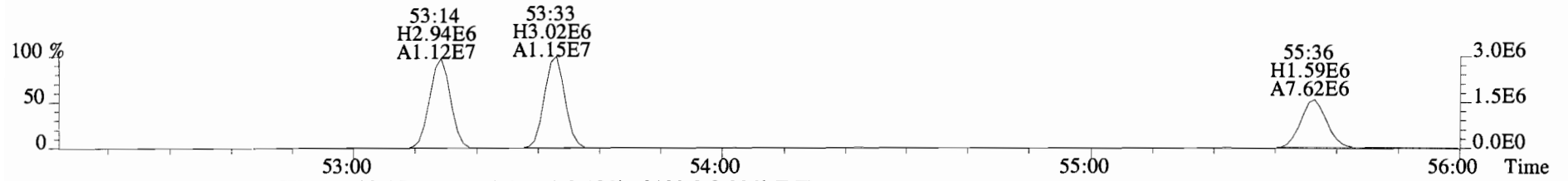
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11920.0,0.00%,F,F)



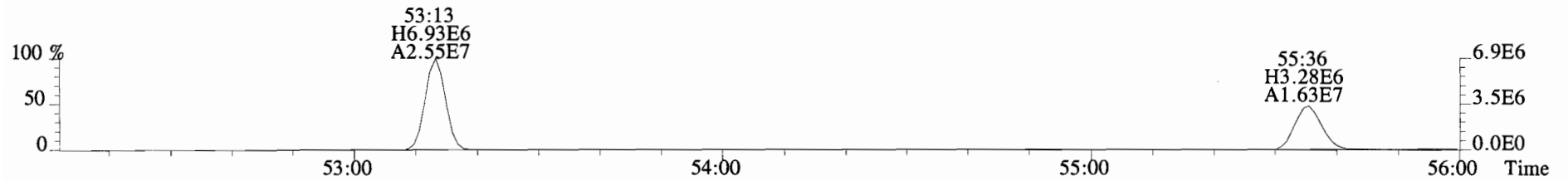
File:140925E1 #1-418 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9312.0,0.00%,F,F)



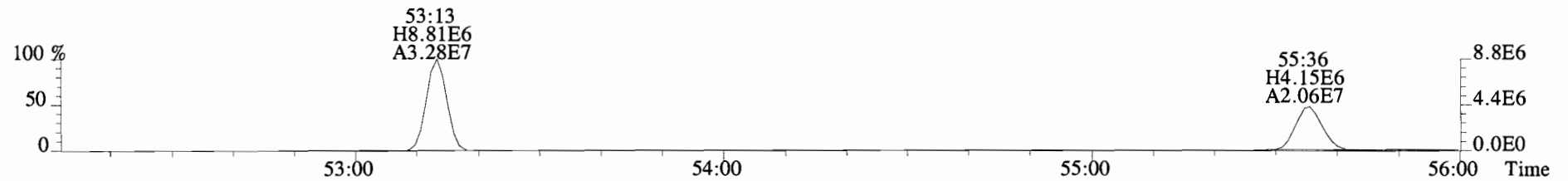
465.7186 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7500.0,0.00%,F,F)



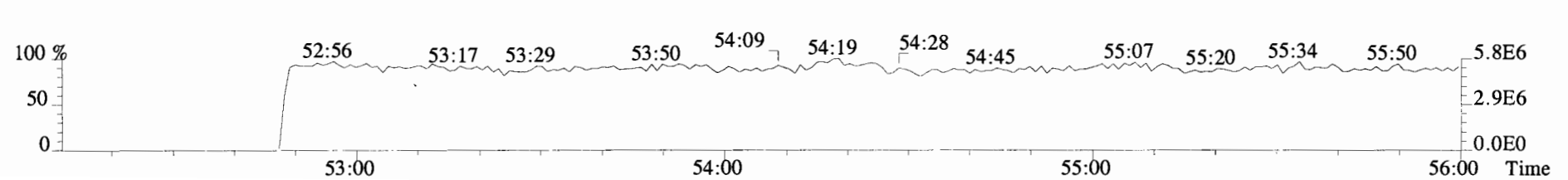
473.7648 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13192.0,0.00%,F,F)



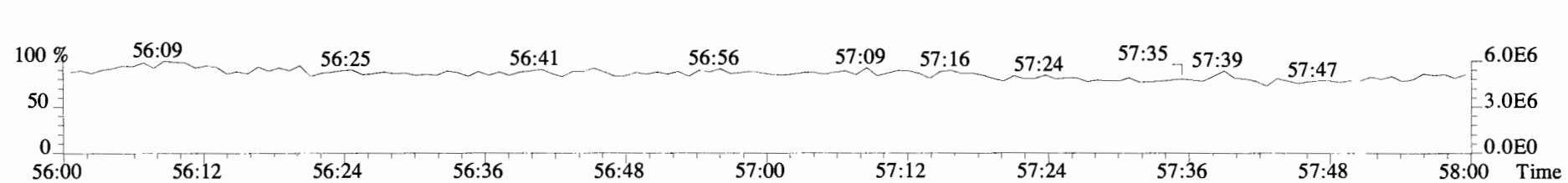
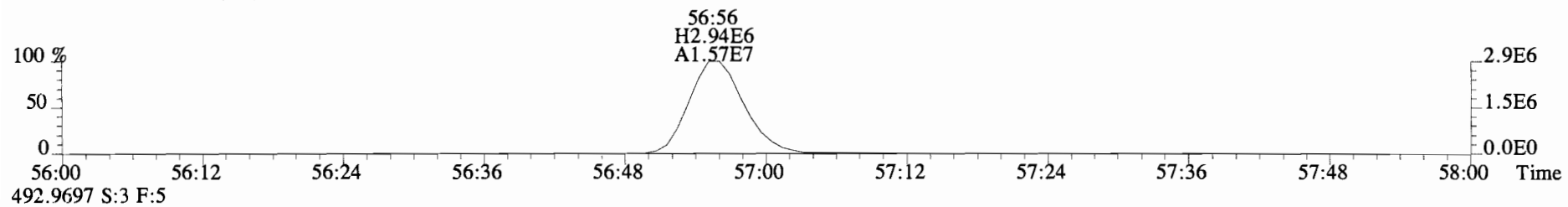
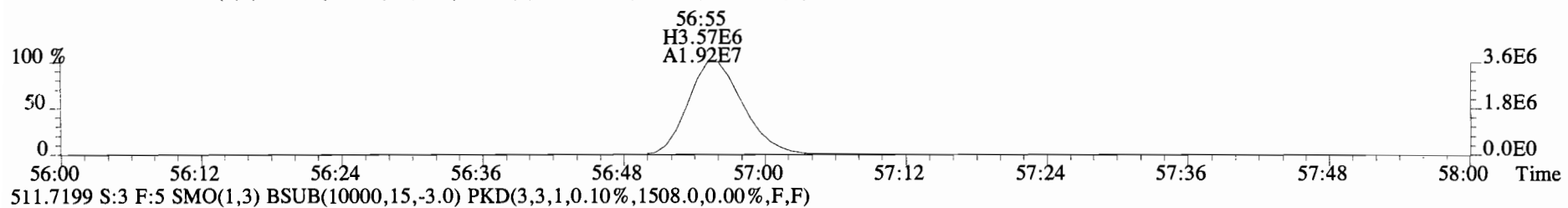
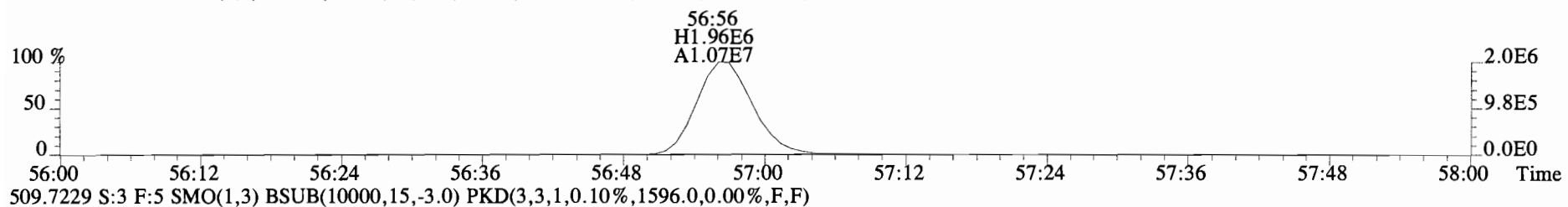
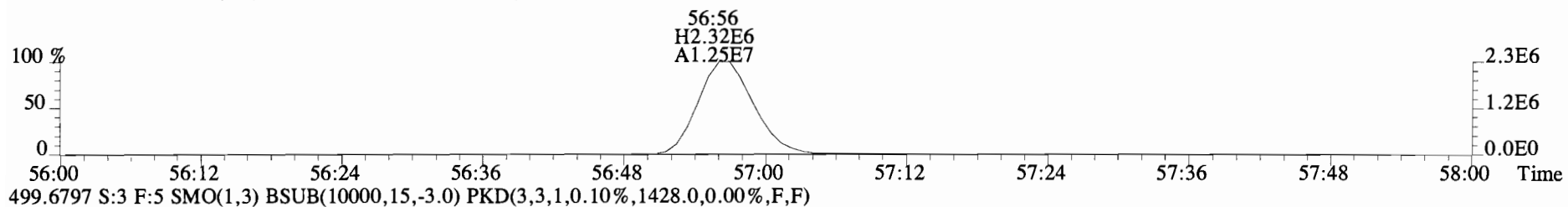
475.7619 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17192.0,0.00%,F,F)



492.9697 S:3 F:5



File:140925E1 #1-418 Acq:25-SEP-2014 10:14:19 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B4I0067-BS1 OPR 1 Exp:PCB\_ZB1  
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



Client ID: CS-TS-01-20140903-W  
Lab ID: 1400668-01

Filename: 140925E1  
GC Column ID: ZB-1

S:10 Acq:25-SEP-14 17:45:06  
ICal: PCBVG8-6-20-14 wt/vol: 0.954

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	1.16e+06	2.93	y 16:14	1.25	13.3		*	2.5	*	1.000	0.996-1.006	
Mono	PCB-2	1.96e+05	3.02	y 18:37	1.18	2.40		*	2.5	*	0.988	0.983-0.993	
Mono	PCB-3	4.08e+05	2.73	y 18:51	1.22	4.84		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	1.74e+06	1.48	y 20:12	1.55	31.9		*	2.5	*	1.002	0.998-1.008	
Di	PCB-7/9	*	*	n NotF $\eta$	1.27	*	19600	2.5		6.48	*	0.865-0.873	
Di	PCB-6	9.18e+05	1.44	y 22:39	1.26	13.1		*	2.5	*	0.893	0.890-0.899	
Di	PCB-5/8	4.55e+06	1.58	y 23:02	1.23	66.2		*	2.5	*	0.909	0.906-0.916	
Di	PCB-14	*	*	n NotF $\eta$	1.23	*	19600	2.5		5.98	*	0.949-0.959	
Di	PCB-11	5.07e+06	1.57	y 25:22	1.16	65.4		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	3.87e+05	1.71	y 25:44	1.10	5.27		*	2.5	*	1.015	1.010-1.020	
Di	PCB-15	2.38e+06	1.71	y 26:04	1.21	29.4		*	2.5	*	1.028	1.024-1.034	
Tri	PCB-19	3.79e+05	1.09	y 24:21	1.30	8.97		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.83	*	2030	2.5		0.702	*	1.032-1.042	
Tri	PCB-18	3.41e+06	1.05	y 25:59	0.86	74.6		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	1.24e+06	1.06	y 26:10	0.90	26.0		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	4.45e+05	1.14	y 26:44	1.18	7.12		*	2.5	*	0.981	0.976-0.986	
Tri	PCB-16/32	2.86e+06	1.05	y 27:14	1.03	52.2		*	2.5	*	0.999	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.26	*	2440	2.5		1.41	*	0.956-0.966	
Tri	PCB-23	*	*	n NotF $\eta$	1.31	*	2440	2.5		1.36	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF $\eta$	1.33	*	2440	2.5		1.34	*	0.967-0.977	
Tri	PCB-26	4.21e+05	0.92	y 28:36	1.29	9.72		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	2.24e+05	1.20	y 28:45	1.34	4.99		*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	2.05e+06	0.93	y 29:07	1.42	43.1		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	2.36e+06	1.03	y 29:13	1.38	51.1		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-20/21/33	2.08e+06	1.06	y 29:51	1.31	47.4		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	1.28e+06	1.07	y 30:17	1.32	28.8		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.38	*	2440	2.5		1.70	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF $\eta$	1.42	*	2440	2.5		1.65	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF $\eta$	1.35	*	2440	2.5		1.73	*	0.967-0.976	
Tri	PCB-35	9.89e+04	1.00	y 32:44	1.38	2.24		*	2.5	*	0.985	0.982-0.992	
Tri	PCB-37	1.20e+06	0.96	y 33:13	1.39	26.9		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-54	*	*	n NotF $\eta$	1.20	*	2060	2.5		1.06	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.97	*	2060	2.5		1.31	*	1.037-1.047	
Tetra	PCB-53	2.69e+05	0.74	y 29:54	1.19	7.29		*	2.5	*	0.945	0.941-0.951	
Tetra	PCB-51	1.32e+05	0.74	y 30:15	1.15	3.68		*	2.5	*	0.956	0.952-0.962	
Tetra	PCB-45	3.24e+05	0.82	y 30:41	0.97	10.8		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	1.55e+05	0.73	y 31:10	0.95	5.26		*	2.5	*	0.985	0.982-0.992	

Integrations by:

Analyst: DMS

Date: 9/29/14

Reviewed by: [Signature]

Date: 9/30/14



Client ID: CS-TS-01-20140903-W  
Lab ID: 1400668-01

Filename: 140925E1  
GC Column ID: ZB-1

S:10 Acq:25-SEP-14 17:45:06  
ICal: PCBVG8-6-20-14 wt/vol: 0.954

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	2.16e+06	0.80	y 31:39	1.28	54.5	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.37	*		2060	2.5	1.17	*	1.000-1.010	
Tetra	PCB-43/49	1.25e+06	0.68	y 31:58	1.11	36.3	*	2.5	*	*	1.011	1.005-1.015	
Tetra	PCB-47	6.63e+05	0.70	y 32:11	1.13	17.9	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-48/75	4.67e+05	0.81	y 32:19	1.30	11.0	*	2.5	*	*	1.005	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.33	*		2060	2.5	1.15	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF $\eta$	1.29	*		2060	2.5	1.19	*	1.011-1.021	
Tetra	PCB-44	1.86e+06	0.71	y 33:02	0.94	60.7	*	2.5	*	*	1.027	1.020-1.030	
Tetra	PCB-42/59	8.47e+05	0.68	y 33:18	1.22	21.3	*	2.5	*	*	1.036	1.028-1.038	
Tetra	PCB-41/64/71/72	2.58e+06	0.75	y 33:54	1.31	60.2	*	2.5	*	*	1.054	1.046-1.056	
Tetra	PCB-68	8.10e+04	0.79	y 34:06	1.49	1.67	*	2.5	*	*	1.061	1.054-1.064	
Tetra	PCB-40	2.93e+05	0.70	y 34:17	0.82	10.9	*	2.5	*	*	1.066	1.061-1.071	
Tetra	PCB-57	3.54e+04	0.82	y 34:36	1.11	0.747	*	2.5	*	*	0.971	0.965-0.975	
Tetra	PCB-67	1.26e+05	0.82	y 34:54	1.07	2.76	*	2.5	*	*	0.979	0.974-0.984	
Tetra	PCB-58	1.88e+04	0.66	y 35:02	1.10	0.402	*	2.5	*	*	0.983	0.977-0.987	
Tetra	PCB-63	1.05e+05	0.85	y 35:10	1.12	2.22	*	2.5	*	*	0.986	0.982-0.992	
Tetra	PCB-74	1.18e+06	0.77	y 35:27	1.20	23.2	*	2.5	*	*	0.994	0.990-1.000	
Tetra	PCB-61/70	3.11e+06	0.73	y 35:40	1.08	67.7	*	2.5	*	*	1.000	0.994-1.004	
Tetra	PCB-76/66	2.21e+06	0.75	y 35:52	1.14	45.7	*	2.5	*	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.28	*		2060	2.5	0.830	*	0.996-1.006	
Tetra	PCB-55	7.18e+04	0.80	y 36:23	1.11	1.49	*	2.5	*	*	1.009	1.005-1.015	
Tetra	PCB-56/60	1.87e+06	0.77	y 36:54	1.09	39.8	*	2.5	*	*	1.023	1.018-1.028	
Tetra	PCB-79	9.91e+04	0.73	y 37:58	1.12	2.04	*	2.5	*	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.24	*		2060	2.5	0.955	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotF $\eta$	1.38	*		2060	2.5	0.856	*	0.995-1.005	
Tetra	PCB-77	5.88e+05	0.71	y 39:46	1.21	12.3	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.26	*		1940	2.5	2.12	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF $\eta$	1.09	*		1940	2.5	2.44	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF $\eta$	0.93	*		1940	2.5	2.85	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	1.00	*		1940	2.5	2.66	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.11	*		1940	2.5	2.97	*	0.981-0.991	
Penta	PCB-95/98/102	1.85e+06	1.56	y 35:58	1.21	80.5	*	2.5	*	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF $\eta$	1.13	*		1940	2.5	2.91	*	0.998-1.008	
Penta	PCB-88/91	2.66e+05	1.49	y 36:22	1.02	13.8	*	2.5	*	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF $\eta$	1.90	*		1940	2.5	1.73	*	1.009-1.019	
Penta	PCB-84/92	9.35e+05	1.76	y 37:16	1.05	44.9	*	2.5	*	*	0.990	0.986-0.996	
Penta	PCB-89	*	*	n NotF $\eta$	1.02	*		1940	2.5	3.17	*	0.991-1.001	

Analyst Dms

Date: 9/29/14

Client ID: CS-TS-01-20140903-W  
Lab ID: 1400668-01

Filename: 140925E1  
GC Column ID: ZB-1

S:10 Acq:25-SEP-14 17:45:06  
ICal: PCBVG8-6-20-14 wt/vol: 0.954

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	2.94e+06	1.59	y 37:39	1.19	125	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-113	8.28e+04	1.34	y 37:50	1.35	3.09	*	2.5	*	*	1.005	1.002-1.012	
Penta	PCB-99	1.05e+06	1.56	y 37:58	1.29	41.0	*	2.5	*	*	1.009	1.005-1.015	
Penta	PCB-119	8.25e+04	1.35	y 38:27	1.72	2.65	*	2.5	*	*	0.988	0.982-0.992	
Penta	PCB-108/112	1.10e+05	1.78	y 38:37	1.29	4.72	*	2.5	*	*	0.992	0.986-0.996	
Penta	PCB-83	*	*	n NotF $\eta$	1.52	*		1940	2.5	2.35	*	0.991-1.001	
Penta	PCB-97	6.96e+05	1.58	y 38:57	1.25	30.9	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-86	*	*	n NotF $\eta$	1.02	*		1940	2.5	3.50	*	1.000-1.010	
Penta	PCB-87/117/125	1.18e+06	1.66	y 39:13	1.56	41.8	*	2.5	*	*	1.007	1.002-1.012	
Penta	PCB-111/115	5.69e+04	1.63	y 39:22	1.75	1.80	*	2.5	*	*	1.011	1.007-1.017	
Penta	PCB-85/116	4.53e+05	1.57	y 39:29	1.30	19.3	*	2.5	*	*	1.014	1.010-1.020	
Penta	PCB-120	*	*	n NotF $\eta$	1.78	*		1940	2.5	2.00	*	1.016-1.026	
Penta	PCB-110	3.85e+06	1.51	y 39:53	1.68	127	*	2.5	1.68	*	1.024	1.020-1.030	
Penta	PCB-82	2.73e+05	1.45	y 40:31	0.74	17.1	*	2.5	*	*	0.976	0.972-0.982	
Penta	PCB-124	1.55e+05	1.22	n 41:11	1.32	5.43	R	*	2.5	*	0.992	0.988-0.998	
Penta	PCB-107/109	2.38e+05	1.67	y 41:22	1.22	9.02	*	2.5	*	*	0.997	0.991-1.001	
Penta	PCB-123	*	*	n NotF $\eta$	1.22	*		1940	2.5	2.46	*	0.995-1.005	
Penta	PCB-106/118	3.02e+06	1.55	y 41:42	1.22	105	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	1.03e+05	1.59	y 42:21	1.36	2.71	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-122	6.01e+04	1.71	y 42:30	1.24	1.72	*	2.5	1.24	*	1.004	0.999-1.009	
Penta	PCB-105	1.76e+06	1.51	y 43:13	1.28	45.8	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF $\eta$	1.14	*		2130	2.5	1.95	*	0.995-1.005	
Penta	PCB-126	9.75e+04	1.62	y 45:28	1.28	2.81	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF $\eta$	1.14	*		1570	2.5	2.64	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF $\eta$	1.06	*		1570	2.5	2.81	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF $\eta$	1.10	*		1570	2.5	2.73	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF $\eta$	1.09	*		1570	2.5	2.74	*	1.055-1.065	
Hexa	PCB-136	3.99e+05	1.34	y 39:42	1.08	24.5	*	2.5	*	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF $\eta$	0.74	*		1570	2.5	4.04	*	1.066-1.076	
Hexa	PCB-154	7.54e+04	1.30	y 40:17	0.88	5.68	*	2.5	0.88	*	1.083	1.079-1.089	
Hexa	PCB-151	5.69e+05	1.28	y 40:56	0.81	46.8	*	2.5	*	*	1.101	1.097-1.107	
Hexa	PCB-135	3.08e+05	1.26	y 41:09	0.78	26.3	*	2.5	0.78	*	1.107	1.101-1.113	
Hexa	PCB-144	9.24e+04	1.11	y 41:16	0.82	7.50	*	2.5	0.82	*	1.110	1.105-1.116	
Hexa	PCB-147	*	*	n NotF $\eta$	0.83	*		1570	2.5	3.61	*	1.011-1.120	
Hexa	PCB-139/149	2.01e+06	1.32	y 41:39	0.84	159	*	2.5	0.84	*	1.120	1.115-1.127	
Hexa	PCB-140	*	*	n NotF $\eta$	0.79	*		1570	2.5	3.82	*	1.120-1.132	
Hexa	PCB-134/143	2.71e+05	1.34	y 42:18	0.93	10.2	*	2.5	0.93	*	0.975	0.970-0.980	

Analyst: *Dms*

Date: *9/29/14*

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	1.88e+05	1.12	y 42:35	0.95	6.97	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF $\eta$	0.91	*		2470	2.5	2.81	*	0.981-0.991	
Hexa	PCB-146/165	1.24e+06	1.21	y 42:58	1.16	37.6	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	1.87e+06	1.19	y 43:14	1.11	59.0	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	7.19e+06	1.19	y 43:22	1.18	214	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF $\eta$	1.37	*		2470	2.5	1.87	*	1.000-1.010	
Hexa	PCB-141	1.27e+06	1.29	y 44:07	0.97	48.9	*	2.5	*	*	1.000	0.996-1.005	
Hexa	PCB-137	1.95e+05	1.06	y 44:29	1.07	6.81	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	3.13e+05	1.28	y 44:36	0.85	13.8	*	2.5	*	*	1.011	1.007-1.017	
Hexa	PCB-138/163/164	7.44e+06	1.25	y 44:58	1.23	238	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-158/160	8.31e+05	1.15	y 45:12	1.29	25.3	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	2.53e+05	1.16	y 45:28	0.92	10.8	*	2.5	*	*	1.011	1.007-1.017	
Hexa	PCB-166	*	*	n NotF $\eta$	1.12	*		2470	2.5	2.25	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotF $\eta$	1.16	*		2470	2.5	2.16	*	0.995-1.005	
Hexa	PCB-128/162	9.26e+05	1.09	y 46:32	1.02	31.5	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	3.13e+05	1.16	y 46:56	1.06	9.48	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	7.30e+05	1.11	y 48:15	1.18	21.5	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-157	1.63e+05	1.22	y 48:30	1.08	4.99	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF $\eta$	1.11	*		2470	2.5	2.89	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF $\eta$	1.40	*		1600	2.5	1.03	*	0.995-1.005	
Hepta	PCB-184	*	*	n NotF $\eta$	1.24	*		1600	2.5	1.17	*	1.006-1.016	
Hepta	PCB-179	9.02e+05	1.05	y 44:14	1.30	33.3	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	2.86e+05	1.20	y 44:42	1.36	10.1	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF $\eta$	1.28	*		1600	2.5	1.13	*	1.049-1.059	
Hepta	PCB-178	2.88e+05	1.29	n 45:48	0.94	14.8	R	*	2.5	*	1.066	1.061-1.071	
Hepta	PCB-175	8.24e+04	1.01	y 46:09	0.97	4.10	*	2.5	*	*	1.074	1.069-1.079	
Hepta	PCB-182/187	2.13e+06	1.14	y 46:18	1.01	101	*	2.5	*	*	1.077	1.073-1.083	
Hepta	PCB-183	1.06e+06	1.09	y 46:39	1.08	47.2	*	2.5	*	*	1.085	1.080-1.090	
Hepta	PCB-185	1.87e+05	1.04	y 47:18	1.34	10.5	*	2.5	*	*	0.955	0.951-0.961	
Hepta	PCB-174	1.69e+06	1.20	y 47:40	1.34	94.5	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF $\eta$	1.36	*		1600	2.5	1.66	*	0.961-0.971	
Hepta	PCB-177	9.34e+05	1.02	y 47:56	1.24	56.4	*	2.5	*	*	0.968	0.964-0.974	
Hepta	PCB-171	4.35e+05	1.06	y 48:15	1.31	24.8	*	2.5	*	*	0.974	0.970-0.980	
Hepta	PCB-173	3.11e+04	1.34	n 48:41	1.16	2.01	R	*	2.5	*	0.983	0.979-0.989	
Hepta	PCB-172	2.64e+05	0.99	y 49:08	1.22	16.2	*	2.5	*	*	0.992	0.988-0.998	
Hepta	PCB-192	*	*	n NotF $\eta$	1.53	*		1600	2.5	1.48	*	0.991-1.001	
Hepta	PCB-180	3.61e+06	1.04	y 49:31	1.43	189	*	2.5	*	*	1.000	0.995-1.005	

Analyst: *Dms*

Date: *9/29/14*

Client ID: CS-TS-01-20140903-W  
Lab ID: 1400668-01

Filename: 140925E1 S:10 Acq:25-SEP-14 17:45:06  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 0.954

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	2.43e+05	0.90	y 49:44	1.65	11.0		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	9.92e+04	1.00	y 49:59	1.67	4.45		*	2.5	*	1.009	1.004-1.014	
Hepta	PCB-170	1.32e+06	1.03	y 51:00	1.50	87.2		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	3.06e+05	1.16	y 51:11	2.02	15.0		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	6.95e+04	1.06	y 52:30	1.54	3.86		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	1.30e+05	0.76	y 48:26	1.04	9.22		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	7.23e+04	0.60	n 48:55	1.10	4.82	R	*	2.5	*	1.010	1.006-1.016	
Octa	PCB-204	*	*	n NotF $\eta$	0.99	*		1470	2.5	2.81	*	1.009-1.019	
Octa	PCB-197	5.95e+04	0.87	y 49:24	1.07	4.08		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	7.35e+04	0.84	y 50:16	1.02	5.31		*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	*	*	n NotF $\eta$	0.74	*		1470	2.5	3.76	*	1.058-1.068	
Octa	PCB-199	4.35e+05	0.92	y 51:42	0.73	43.9		*	2.5	*	1.068	1.060-1.070	
Octa	PCB-196/203	5.06e+05	0.95	y 51:57	0.77	48.2		*	2.5	*	1.073	1.066-1.076	
Octa	PCB-195	1.81e+05	0.95	y 53:07	1.20	15.6		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	3.83e+05	0.91	y 54:00	1.25	31.8		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	*	*	n NotF $\eta$	1.41	*		1970	2.5	3.18	*	1.001-1.011	
Nona	PCB-208	7.54e+04	1.50	y 53:16	0.96	4.16		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	3.69e+04	1.20	y 53:34	0.92	2.13		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	1.32e+05	1.46	y 55:39	1.03	12.5		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	8.22e+04	1.00	y 57:01	1.18	6.28		*	2.5	*	1.000	0.995-1.005	

Analyst: *Dms*

Date: *9/29/14*

Client ID: CS-TS-01-20140903-W  
Lab ID: 1400668-01

Filename: 140925E1 S:10 Acq:25-SEP-14 17:45:06  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 0.9536  
ConCal: ST140925E1-1 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.76e+06	2.93 y	16:14	1.22	20.5156	
Total Di-PCB	1.50e+07	1.48 y	20:12	1.21	211.237	
Total Tri-PCB	8.33e+06	1.09 y	24:21	1.16	168.919	
Total Tri-PCB	9.72e+06	0.92 y	28:36	1.35	214.288	Sum:383.207
Total Tetra-PCB	2.05e+07	0.74 y	29:54	1.17	499.903	
Total Penta-PCB	1.71e+07	1.56 y	35:58	1.21	666.939	
Total Penta-PCB	2.02e+06	1.59 y	42:21	1.26	53.0011	Sum:719.940
Total Hexa-PCB	3.46e+06	1.34 y	39:42	0.92	269.701	
Total Hexa-PCB	2.32e+07	1.34 y	42:18	1.08	738.993	Sum:1008.69
Total Hepta-PCB	1.36e+07	1.05 y	44:14	1.27	709.201	
Total Octa-PCB	1.20e+06	0.76 y	48:26	0.92	110.678	
Total Octa-PCB	5.64e+05	0.95 y	53:07	1.29	47.4494	Sum:158.127
Total Nona-PCB	2.45e+05	1.50 y	53:16	0.96	18.7551	
Total Deca-PCB	8.22e+04	1.00 y	57:01	1.18	6.28458	

Total PCB Conc: ~~3262~~.93171700

3240

Integrations

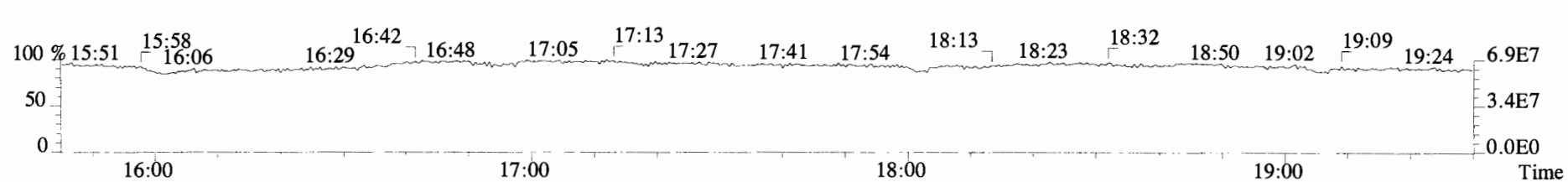
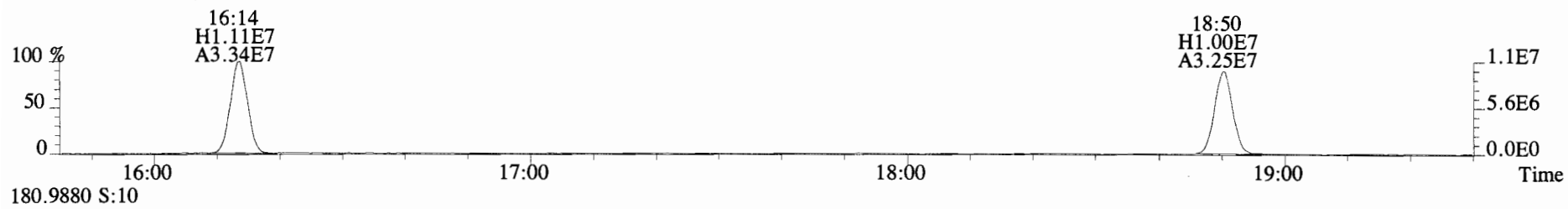
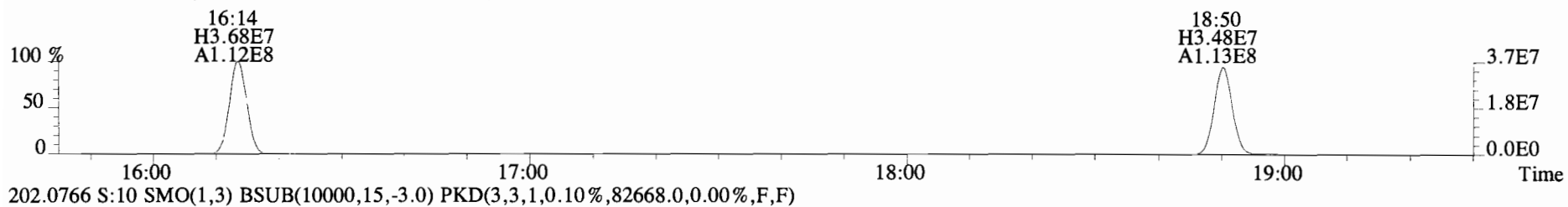
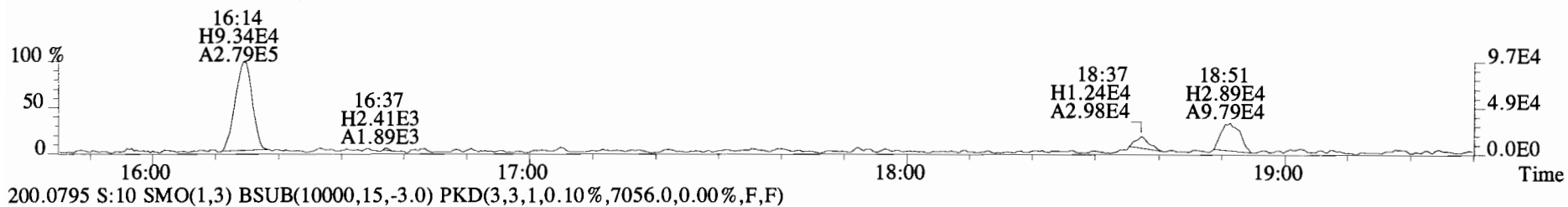
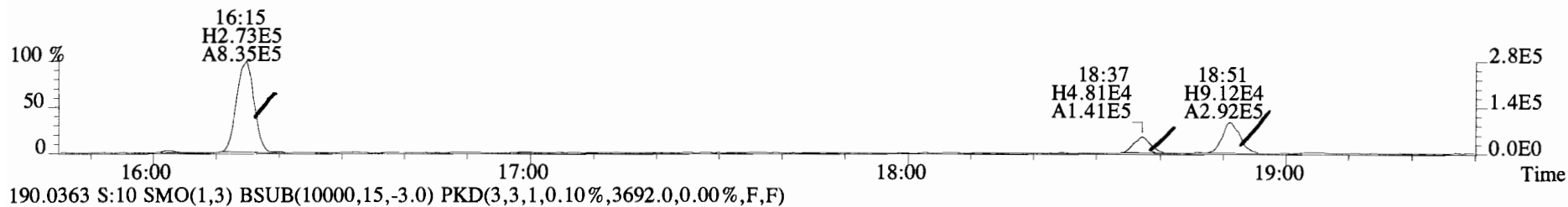
by

Analyst: DMS

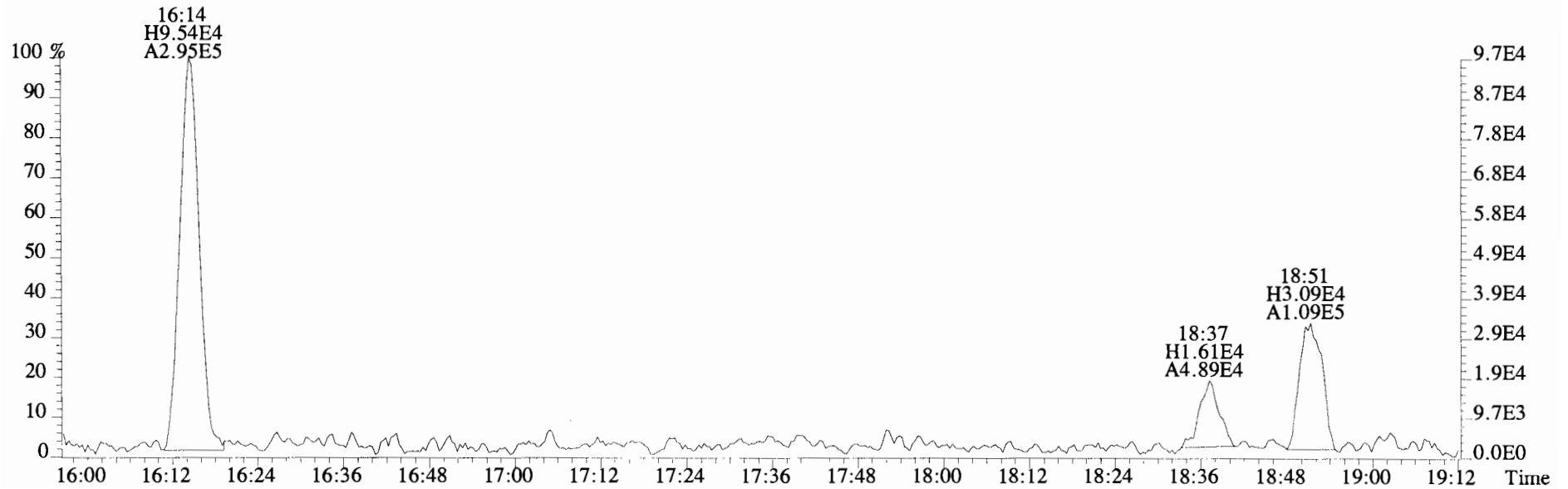
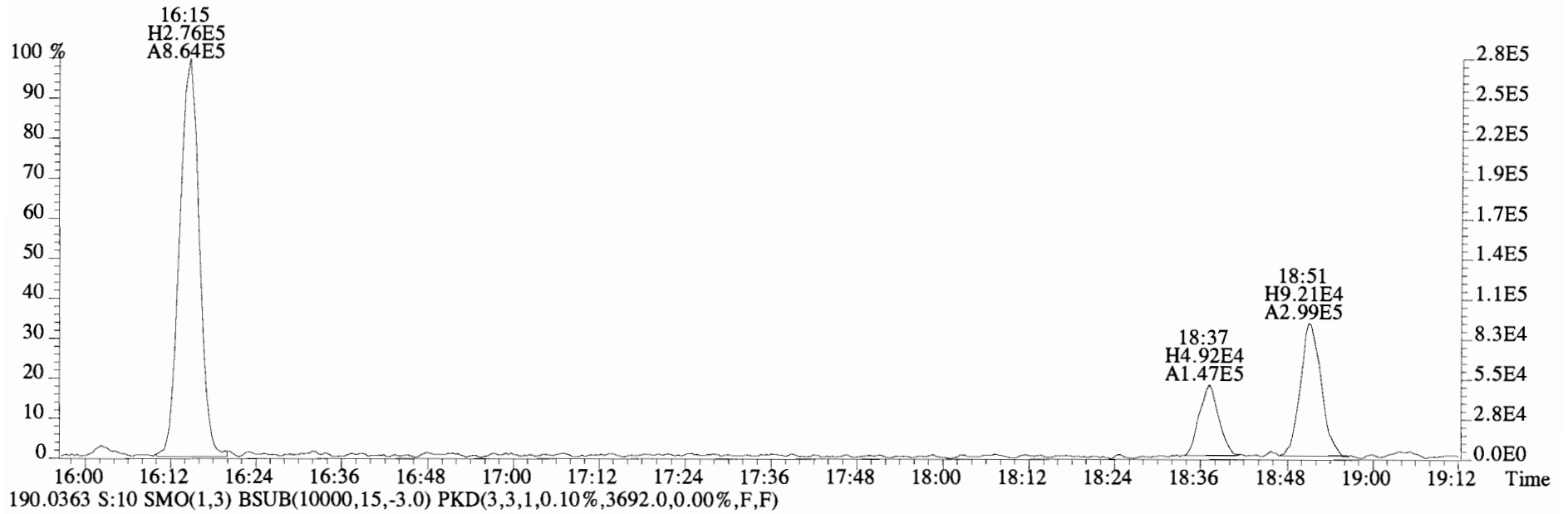
Date: 9/29/14

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	1.46e+08	3.37	y	0.89	16:14	0.623	0.622-0.628	2060	98.3		13C-PCB-79	1.10e+08	0.76	y	1.01	37:57	1.028	1.023-1.033	2200	105
13C-PCB-3	1.45e+08	3.46	y	0.93	18:50	0.723	0.721-0.729	1970	93.9		13C-PCB-178	3.37e+07	0.46	y	0.63	45:47	0.984	0.979-0.989	2030	96.7
13C-PCB-4	7.35e+07	1.58	y	0.55	20:10	0.774	0.772-0.780	1690	80.5											
13C-PCB-9	1.17e+08	1.56	y	0.83	21:58	0.843	0.840-0.848	1780	85.0											
13C-PCB-11	1.40e+08	1.57	y	0.94	25:21	0.973	0.968-0.978	1880	89.8	PS vs. IS										
13C-PCB-19	6.84e+07	1.12	y	0.53	24:20	0.934	0.929-0.939	1620	77.1		13C-PCB-79	1.10e+08	0.76	y	1.20	37:57	0.969	0.963-0.973	2330	111
13C-PCB-28	7.03e+07	0.99	y	0.89	29:12	1.004	0.999-1.009	2220	106		13C-PCB-178	3.37e+07	0.46	y	0.94	45:47	0.925	0.920-0.930	2700	129
13C-PCB-32	1.11e+08	1.13	y	0.81	27:15	1.046	1.041-1.051	1720	82.1											
13C-PCB-37	6.72e+07	0.98	y	0.83	33:13	1.142	1.131-1.143	2260	108											
13C-PCB-47	6.85e+07	0.77	y	0.74	32:09	0.871	0.867-0.875	1850	88.2											
13C-PCB-52	6.51e+07	0.78	y	0.71	31:38	0.857	0.853-0.861	1850	88.2											
13C-PCB-54	7.10e+07	0.78	y	0.85	28:05	0.761	0.758-0.766	1680	80.1											
13C-PCB-70	8.91e+07	0.77	y	0.94	35:39	0.966	0.961-0.971	1900	90.4											
13C-PCB-77	8.28e+07	0.80	y	0.89	39:46	1.078	1.073-1.083	1860	88.8											
13C-PCB-80	9.09e+07	0.78	y	0.96	36:04	0.977	0.972-0.982	1900	90.5											
13C-PCB-81	8.24e+07	0.78	y	0.84	39:11	1.062	1.057-1.067	1980	94.2											
13C-PCB-95	3.97e+07	1.62	y	0.74	35:57	0.913	0.908-0.918	1810	86.2	RS										
13C-PCB-97	3.79e+07	1.68	y	0.69	38:56	0.989	0.984-0.994	1860	88.8		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	4.16e+07	1.64	y	0.79	37:38	0.956	0.951-0.961	1790	85.5		13C-PCB-15	1.67e+08	1.56	y	1.00	26:03	2100			
13C-PCB-104	5.72e+07	1.63	y	1.00	32:51	0.834	0.829-0.837	1950	92.9		13C-PCB-31	7.49e+07	0.98	y	1.00	29:05	2100			
13C-PCB-105	6.27e+07	1.54	y	1.24	43:12	0.929	0.924-0.934	1920	91.6		13C-PCB-60	1.04e+08	0.77	y	1.00	36:54	2100			
13C-PCB-114	5.91e+07	1.53	y	1.21	42:21	0.910	0.905-0.915	1860	88.5		13C-PCB-111	6.19e+07	1.64	y	1.00	39:22	2100			
13C-PCB-118	4.93e+07	1.67	y	0.98	41:41	1.059	1.054-1.064	1700	80.9		13C-PCB-128	5.53e+07	1.28	y	1.00	46:31	2100			
13C-PCB-123	4.53e+07	1.59	y	0.95	41:30	1.054	1.049-1.059	1620	77.2		13C-PCB-205	2.90e+07	0.92	y	1.00	54:17	2100			
13C-PCB-126	5.67e+07	1.54	y	1.16	45:27	0.977	0.972-0.982	1850	88.2											
13C-PCB-127	6.89e+07	1.56	y	1.34	43:33	0.936	0.931-0.941	1950	92.8											
13C-PCB-138	5.35e+07	1.24	y	1.04	44:57	0.966	0.961-0.971	1940	92.7											
13C-PCB-141	5.60e+07	1.30	y	1.07	44:06	0.948	0.943-0.953	1980	94.5											
13C-PCB-153	5.98e+07	1.28	y	1.11	43:22	0.932	0.927-0.937	2040	97.2											
13C-PCB-155	3.15e+07	1.34	y	0.83	37:11	0.945	0.939-0.949	1280	61.2											
13C-PCB-156	6.02e+07	1.28	y	1.24	48:14	1.037	1.032-1.042	1830	87.4											
13C-PCB-157	6.32e+07	1.31	y	1.31	48:30	1.043	1.037-1.047	1830	87.1											
13C-PCB-159	6.04e+07	1.26	y	1.20	46:15	0.994	0.989-0.999	1910	91.1											
13C-PCB-167	6.53e+07	1.27	y	1.32	46:56	1.009	1.004-1.014	1870	89.4											
13C-PCB-169	4.63e+07	1.27	y	1.22	50:38	1.088	1.082-1.092	1440	68.8											
13C-PCB-170	2.12e+07	0.47	y	0.54	50:59	1.096	1.089-1.101	1500	71.6											
13C-PCB-180	2.80e+07	0.46	y	0.67	49:31	1.064	1.059-1.069	1570	75.1											
13C-PCB-188	4.35e+07	0.47	y	0.94	42:59	0.924	0.919-0.929	1760	84.1											
13C-PCB-189	2.45e+07	0.47	y	0.72	52:29	1.128	1.120-1.132	1300	61.9											
13C-PCB-194	2.03e+07	0.91	y	0.81	54:00	0.995	0.990-1.000	1810	86.4											
13C-PCB-202	2.85e+07	0.95	y	0.83	48:25	1.041	1.036-1.046	1300	61.9	Analyst: <u>Dms</u>										
13C-PCB-206	2.16e+07	0.81	y	0.66	55:39	1.025	1.021-1.031	2380	113	Date: <u>9/29/14</u>										
13C-PCB-208	3.96e+07	0.76	y	1.12	53:15	0.981	0.976-0.986	2550	122											
13C-PCB-209	2.33e+07	1.22	y	0.61	57:00	1.050	1.044-1.054	2750	131											

File:140925E1 #1-728 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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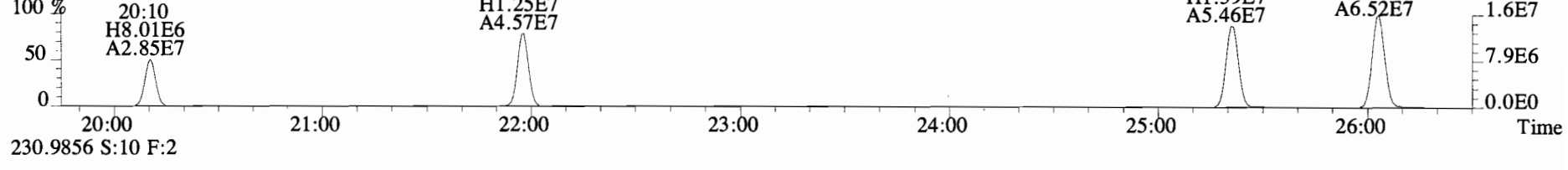
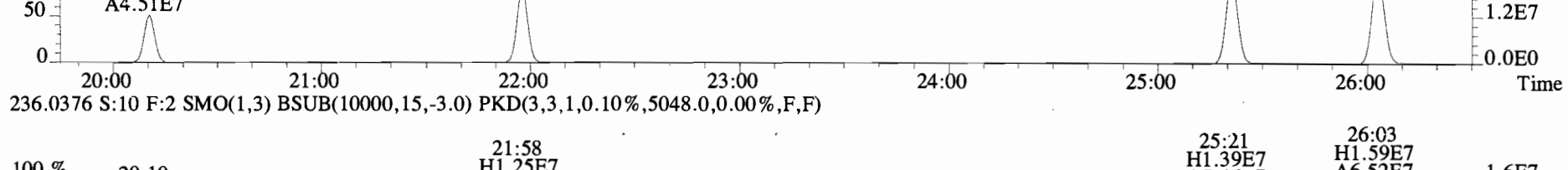
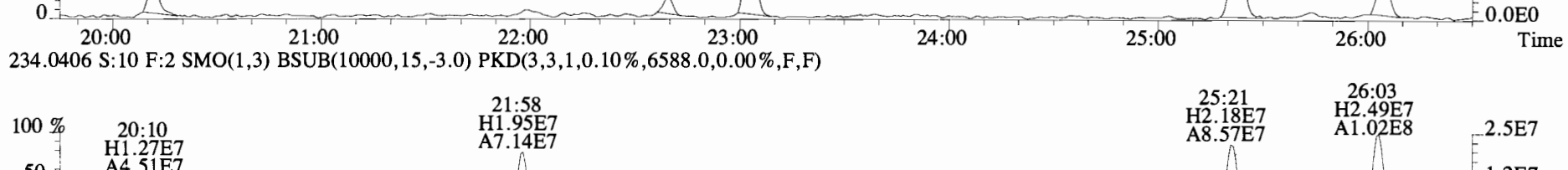
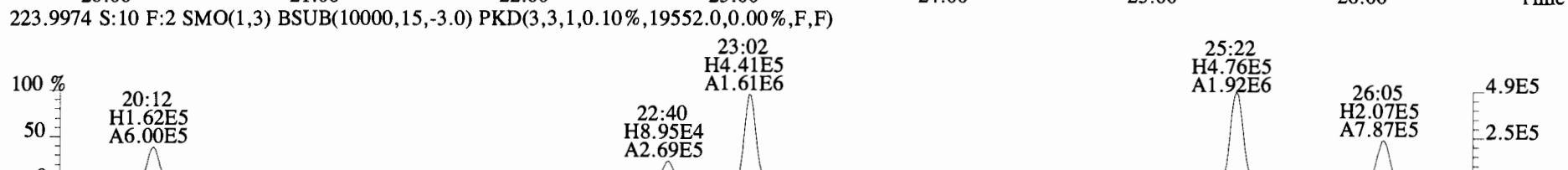
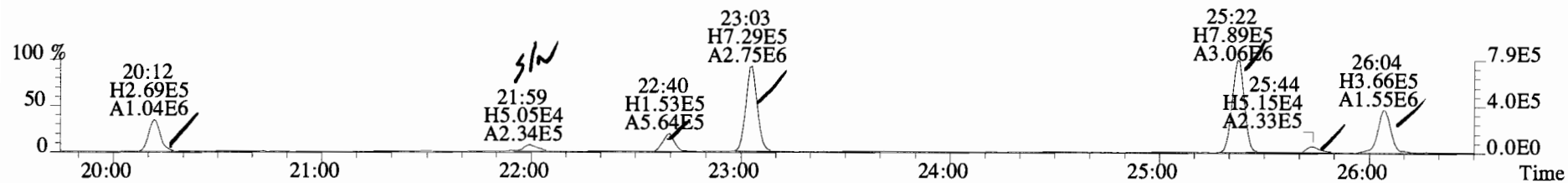


File:140925E1 #1-728 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
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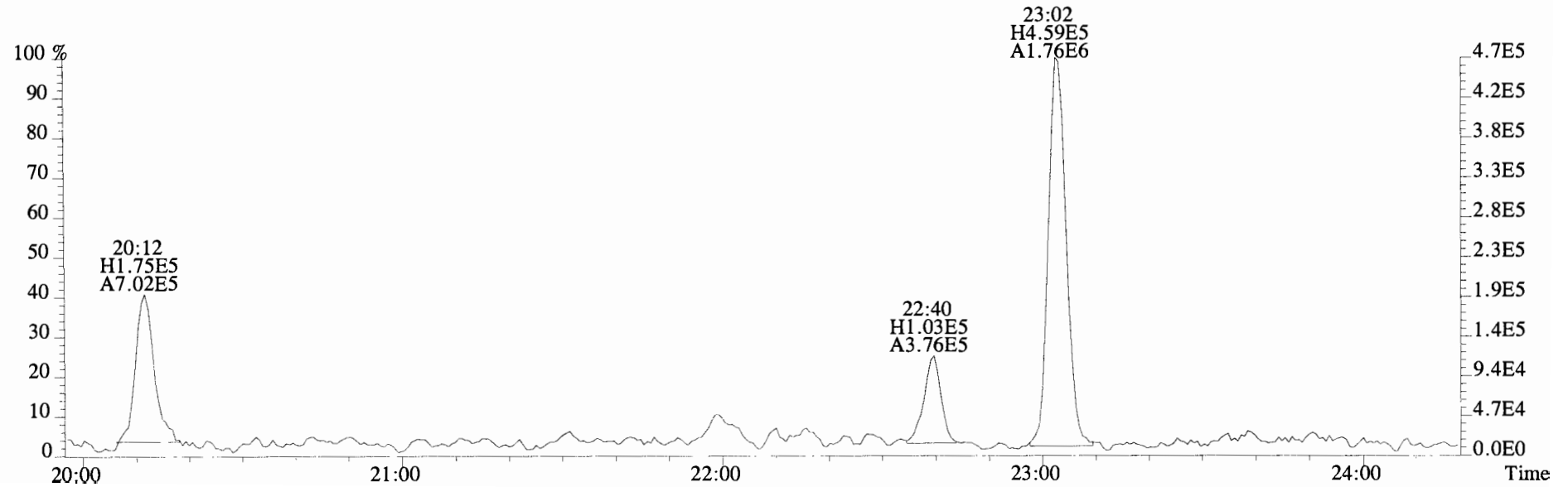
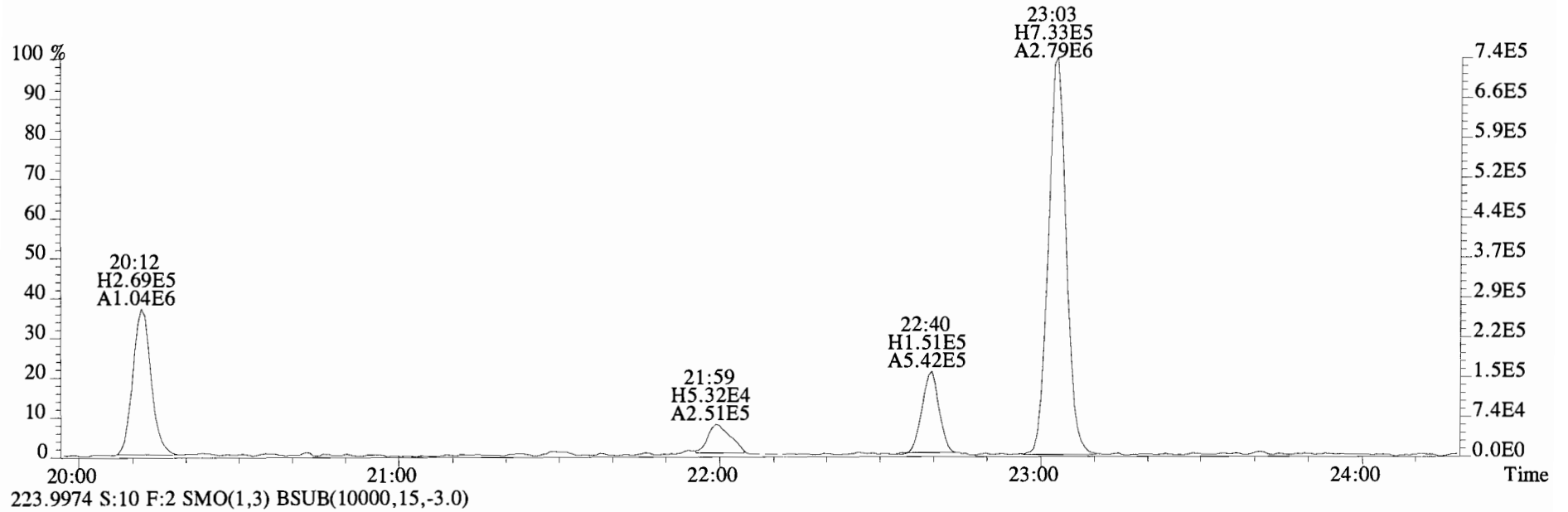




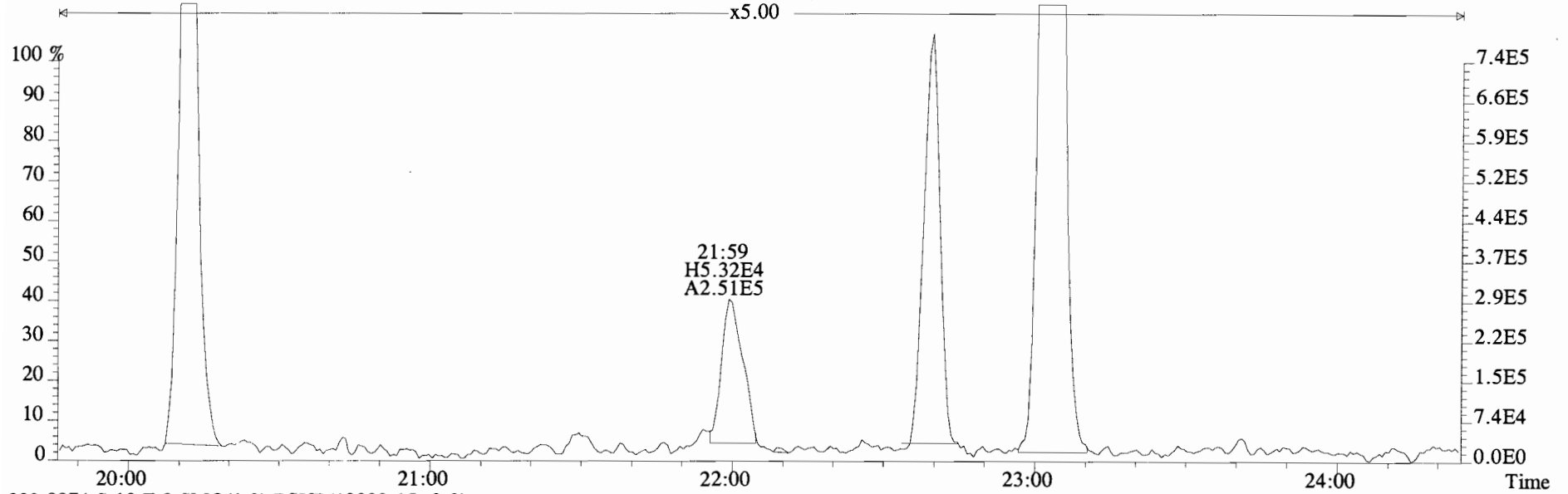
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
 222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5256.0,0.00%,F,F)



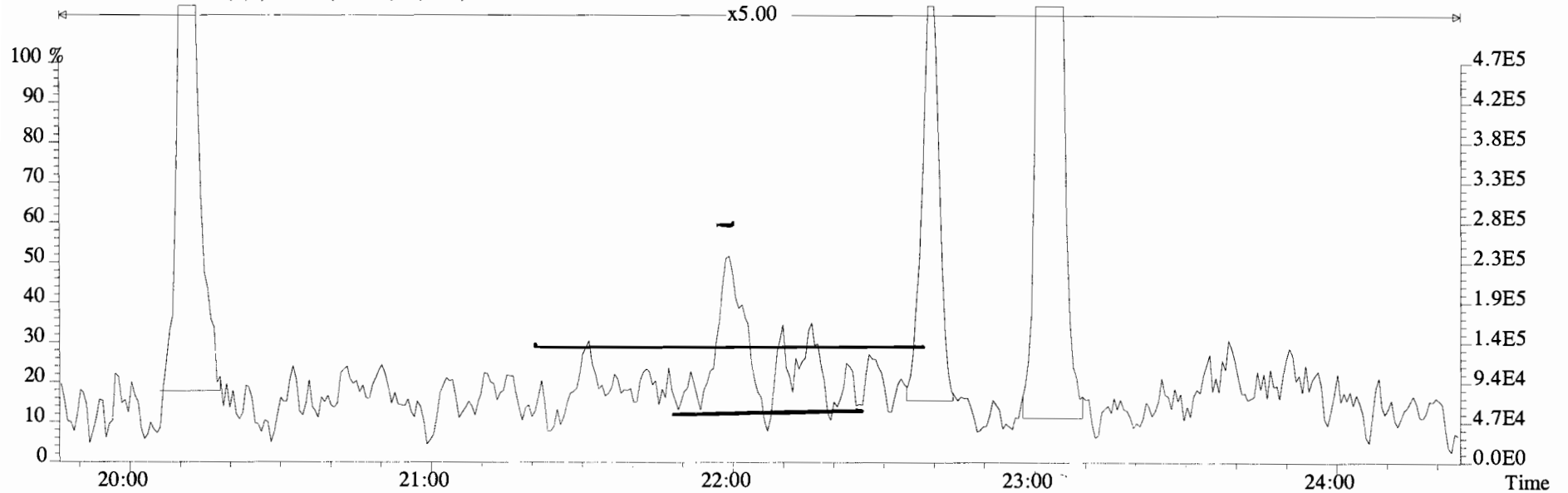
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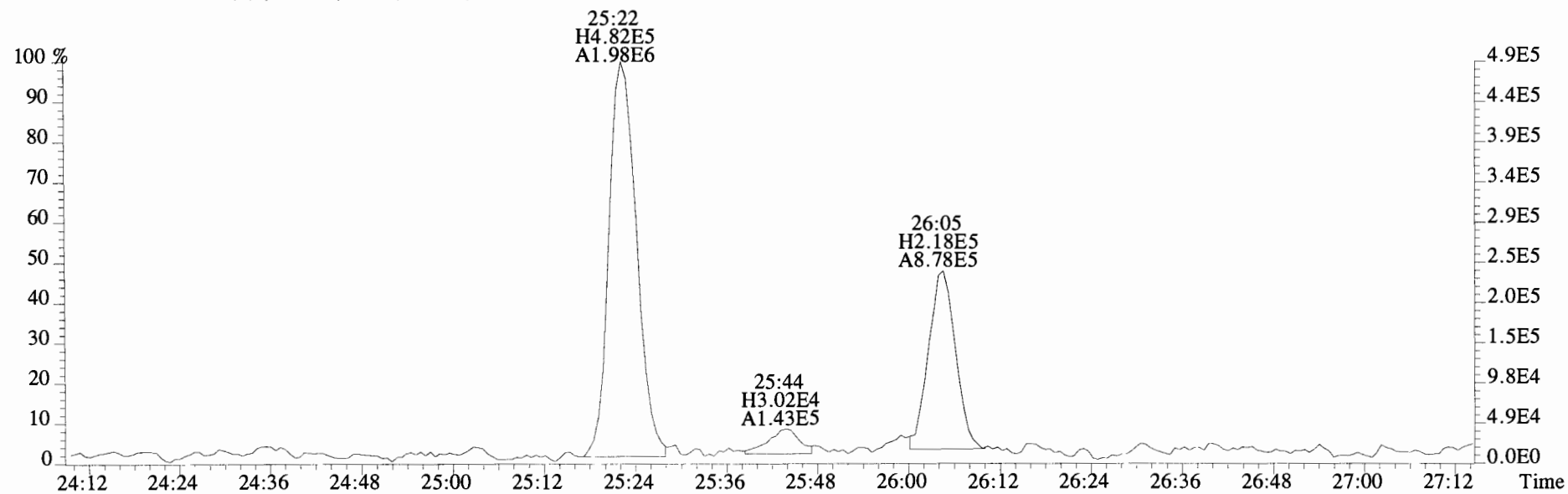
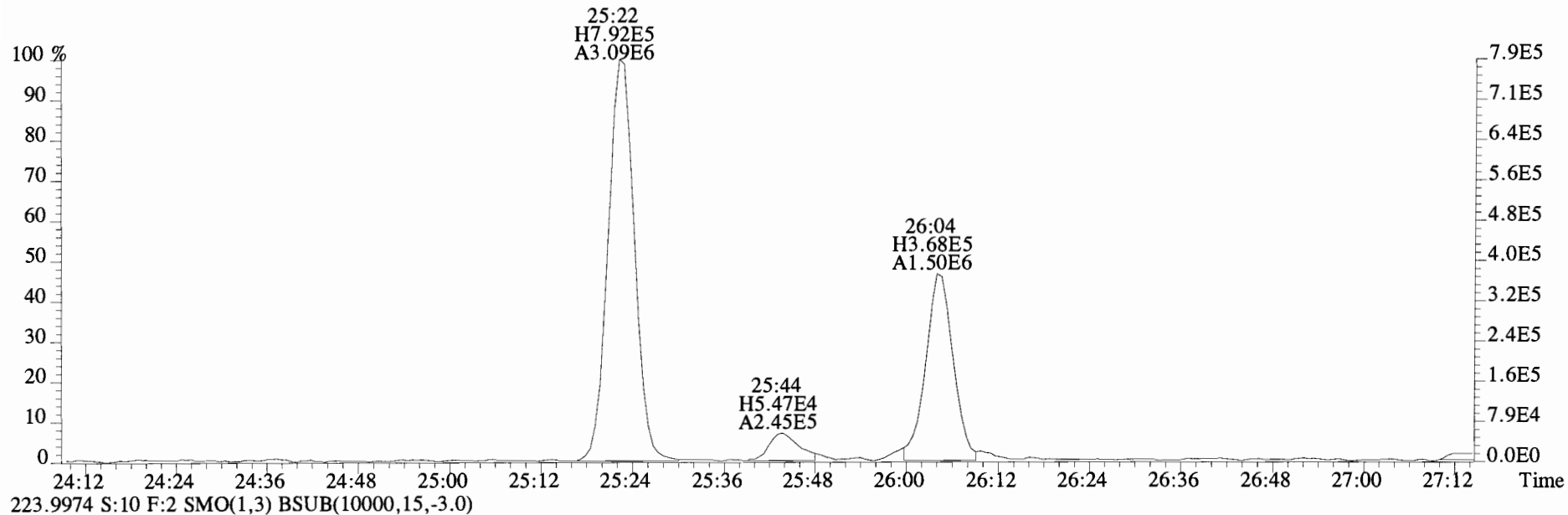
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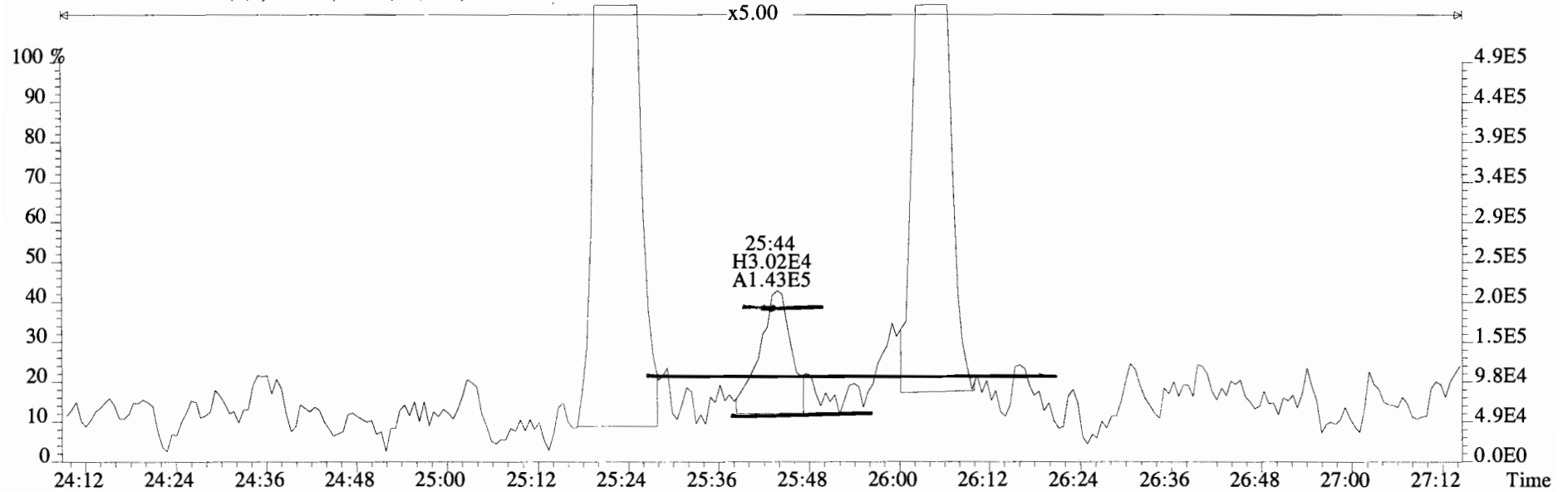
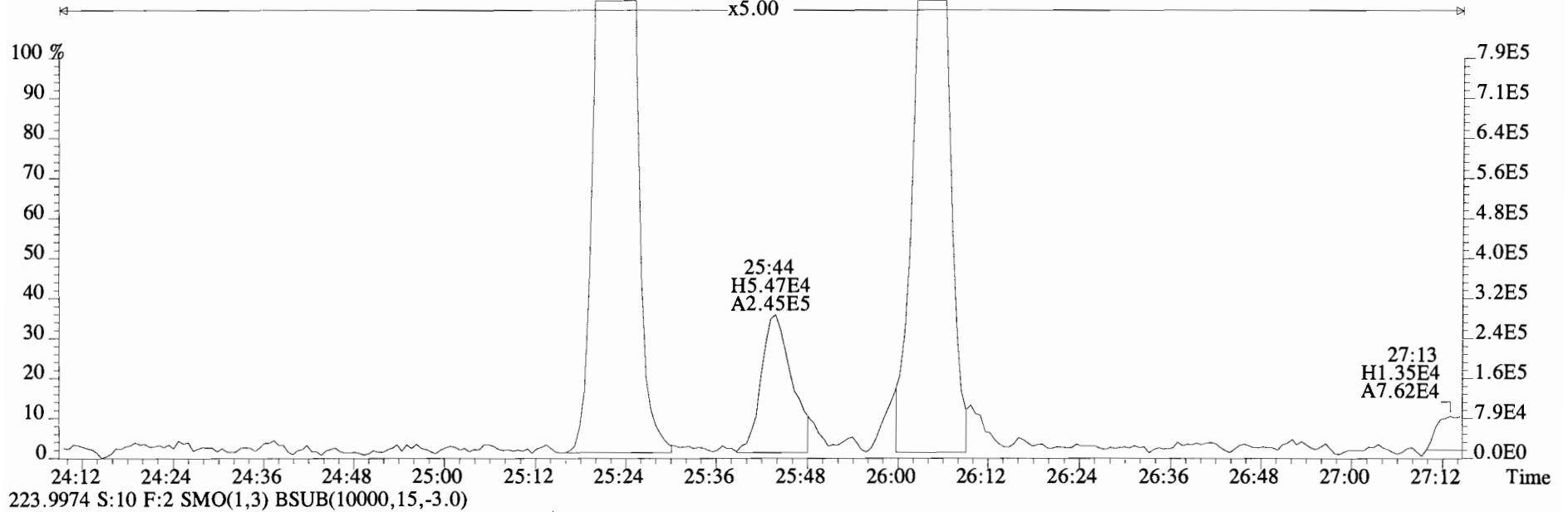
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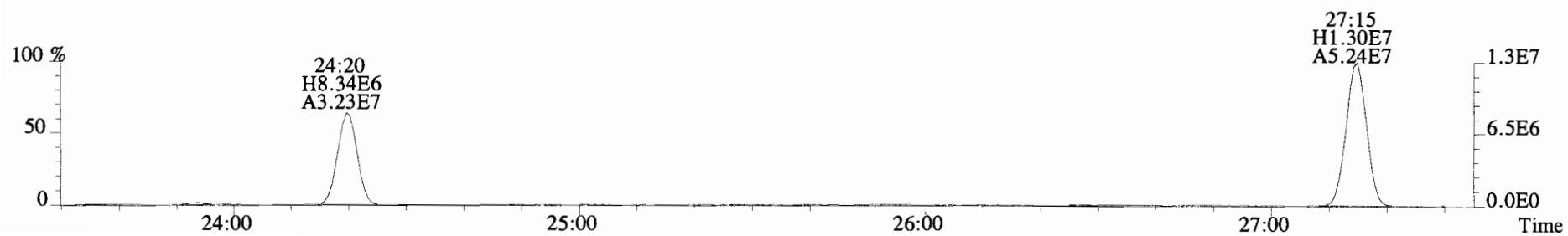
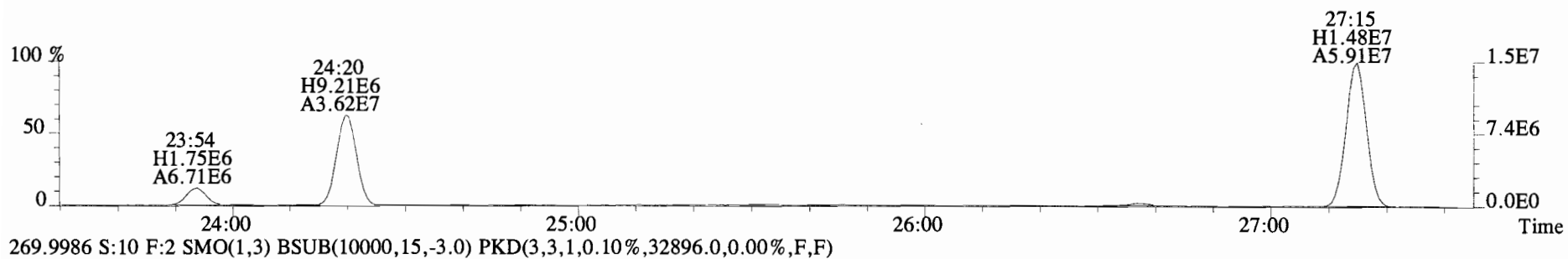
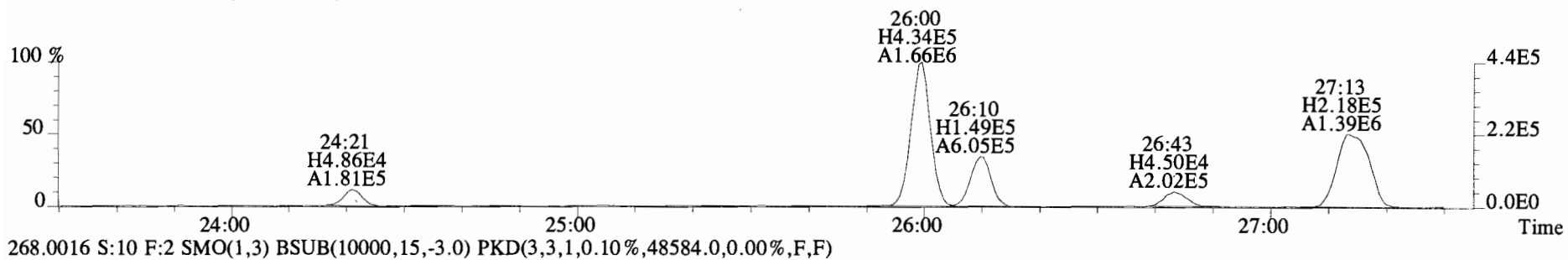
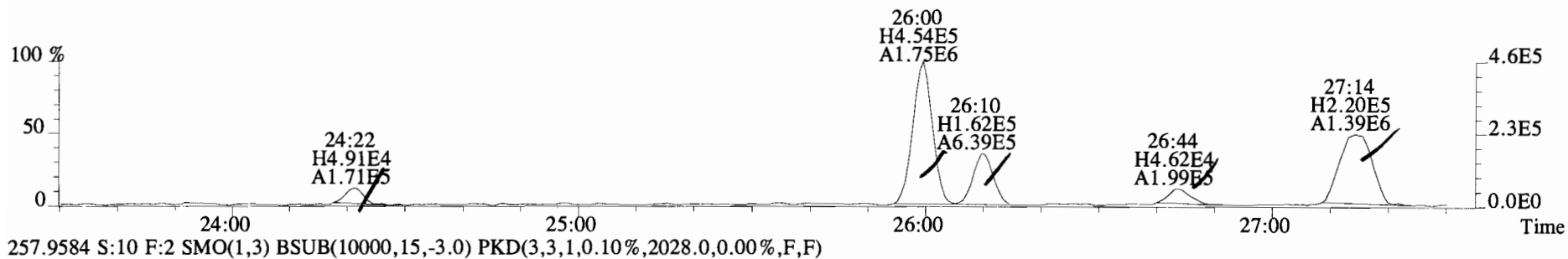
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5256.0,0.00%,F,F)



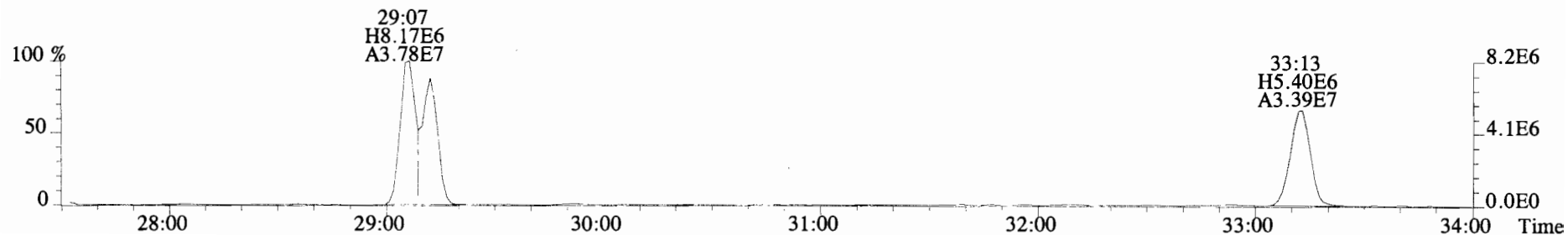
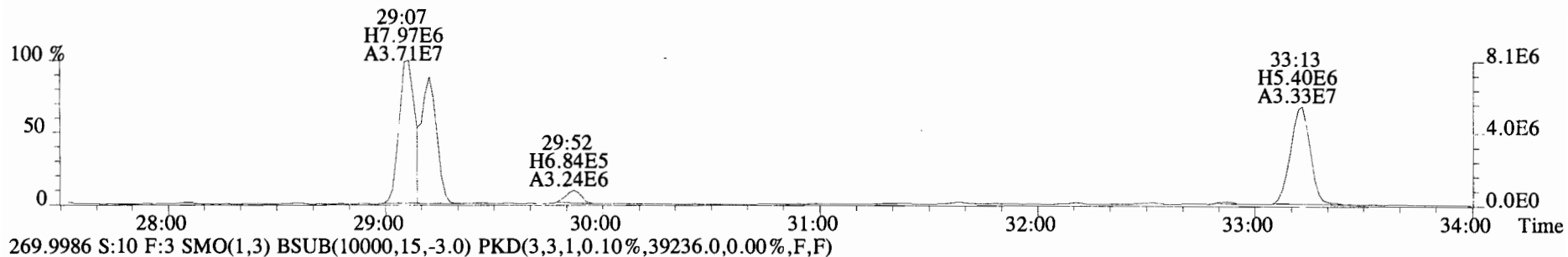
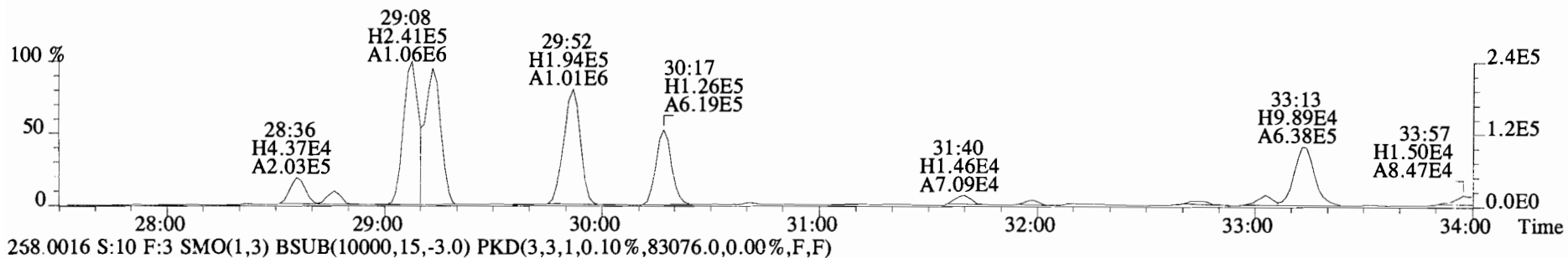
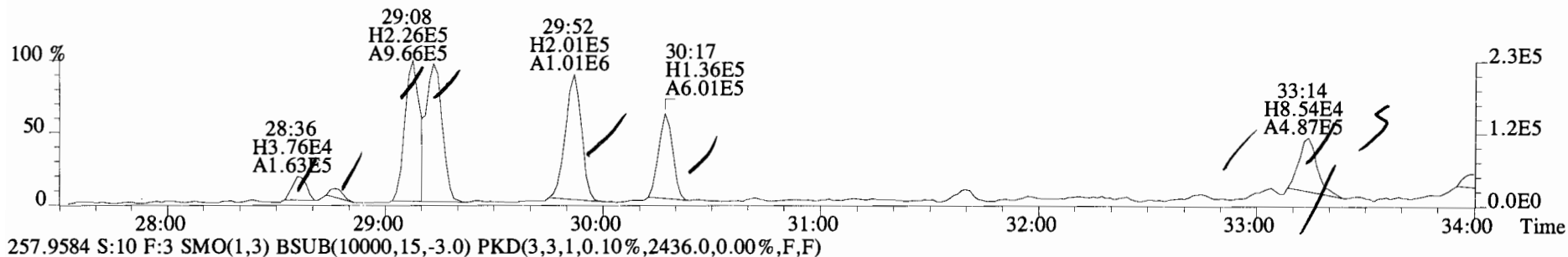
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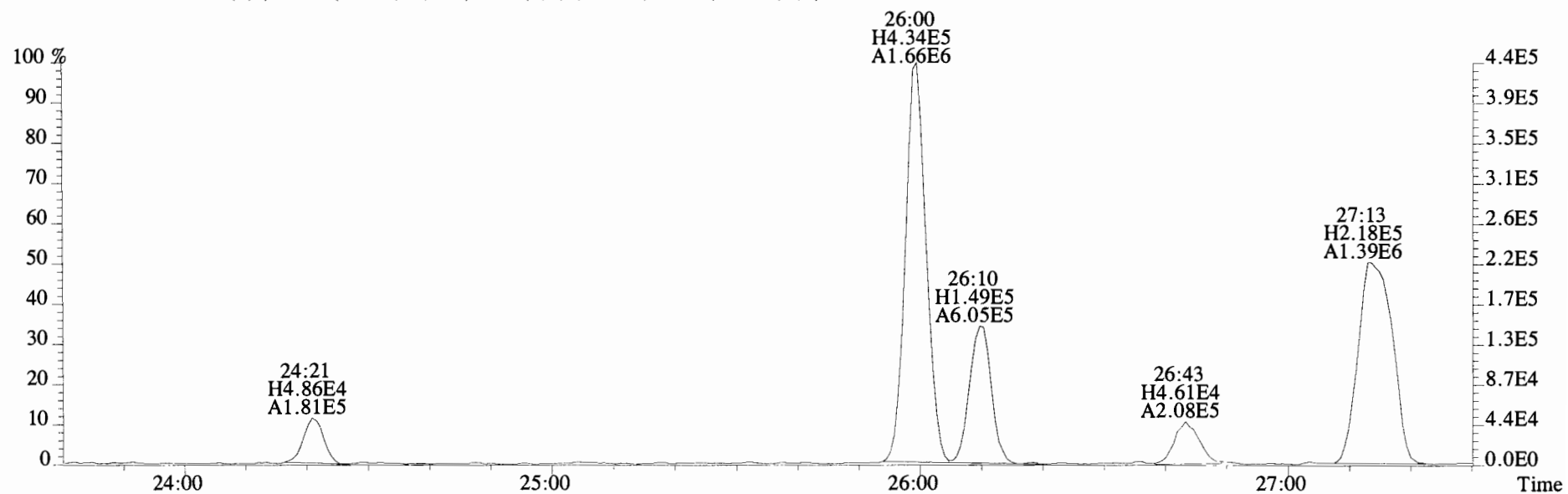
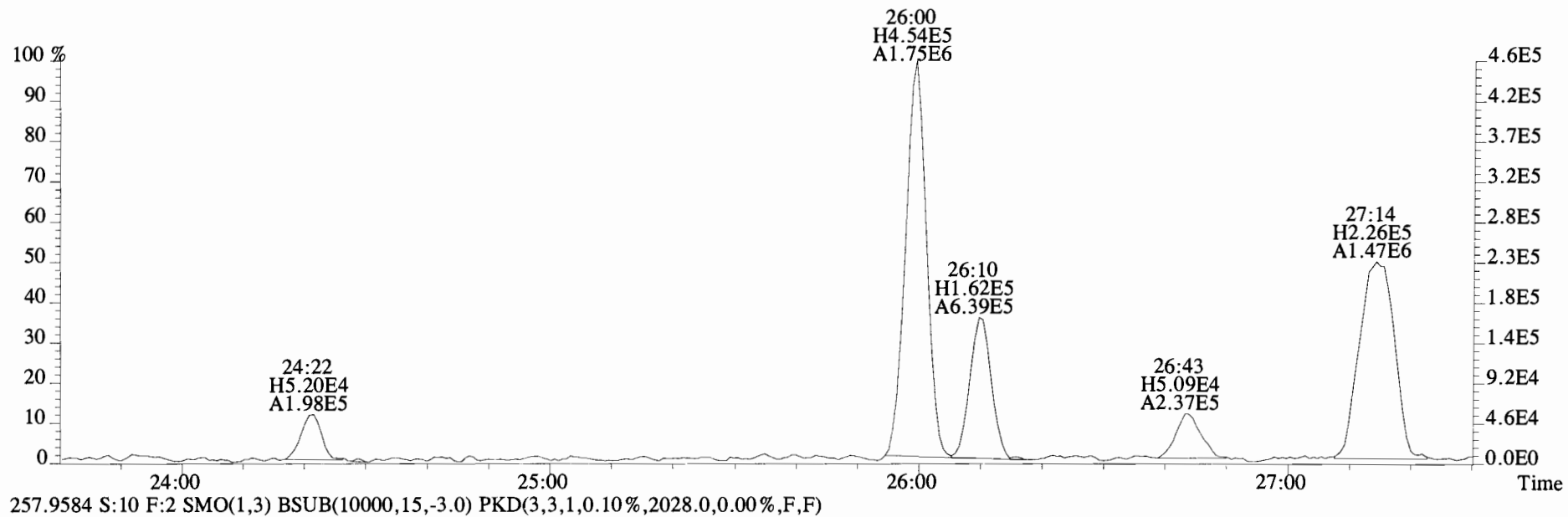
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7668.0,0.00%,F,F)



File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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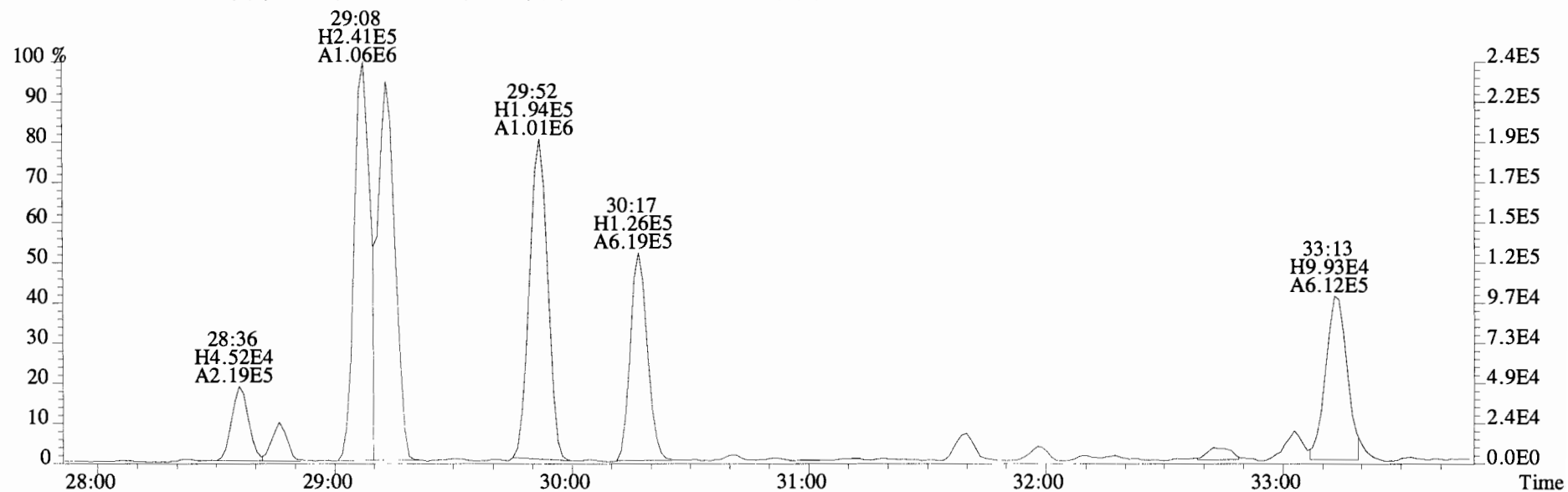
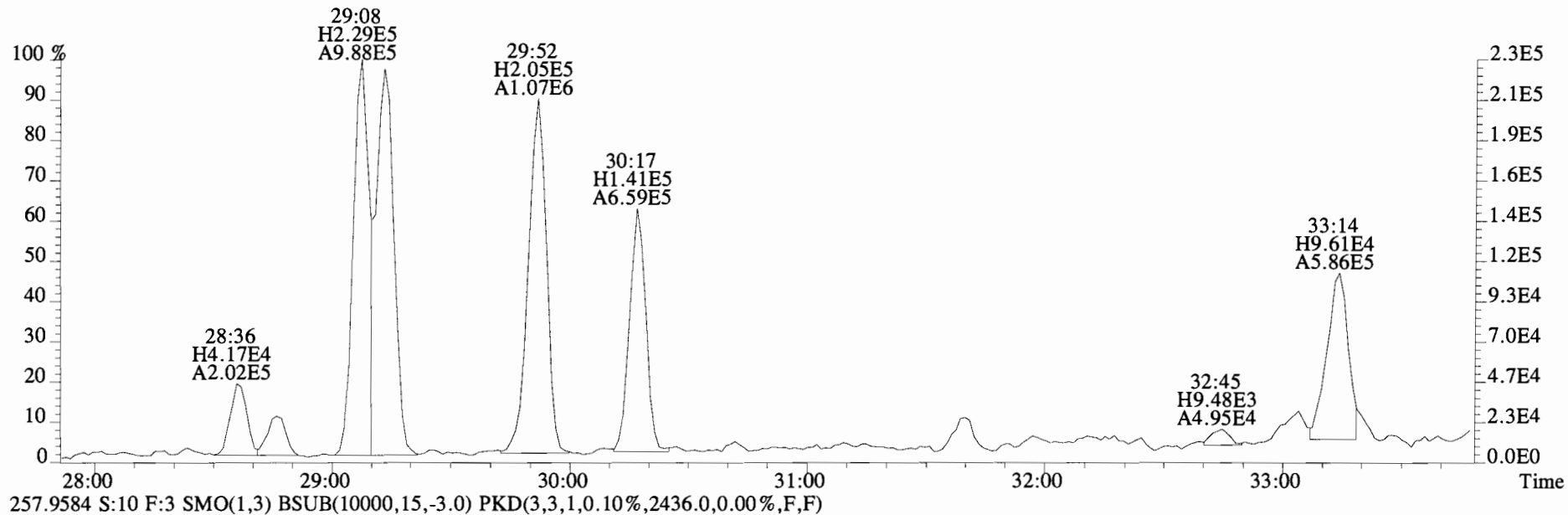


File:140925E1 #1-757 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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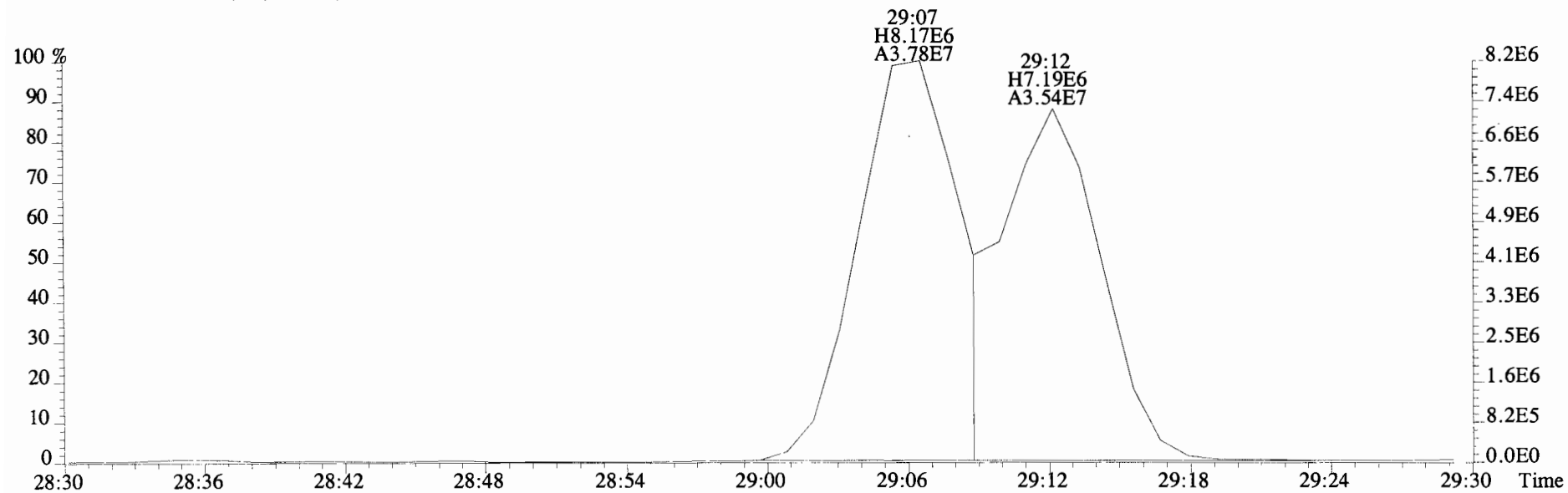
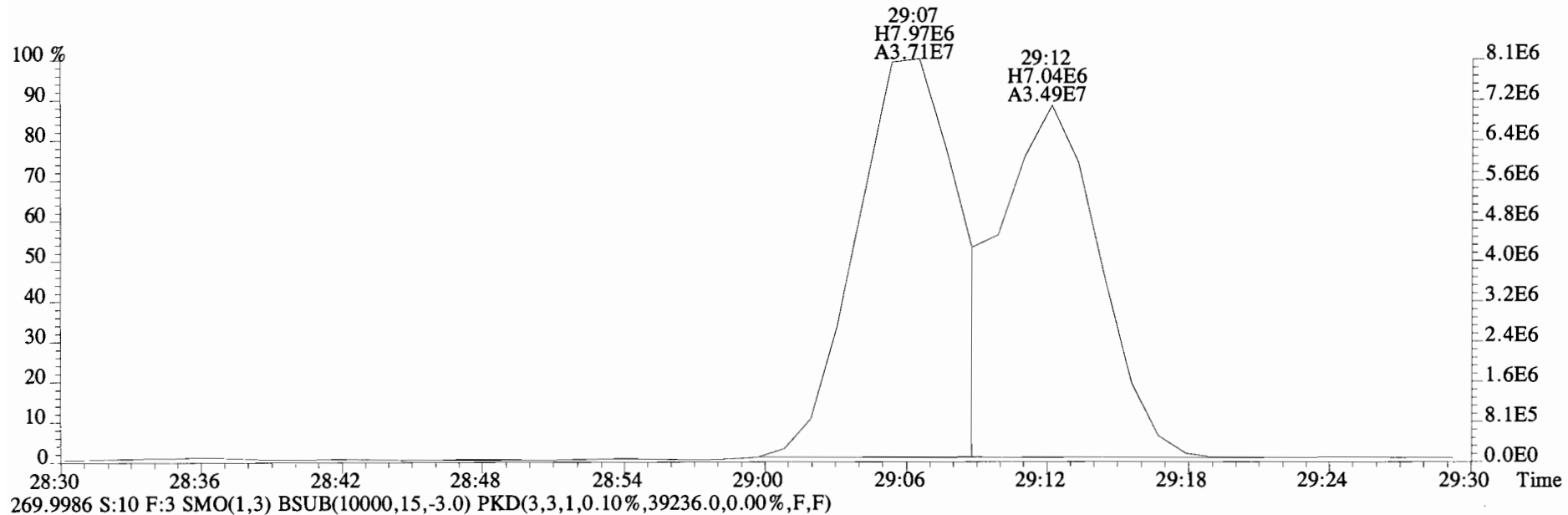




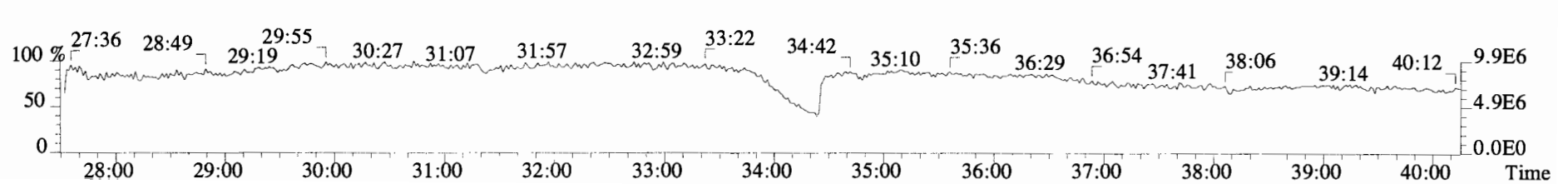
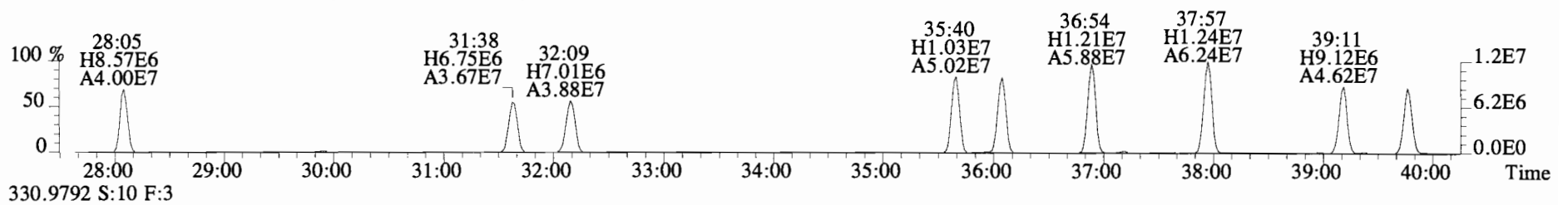
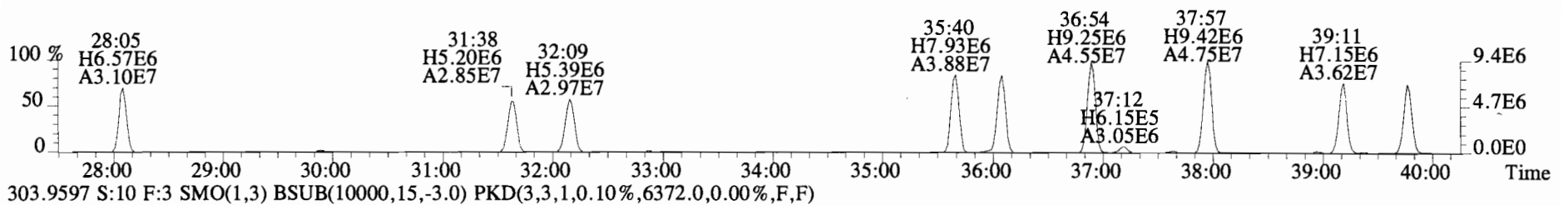
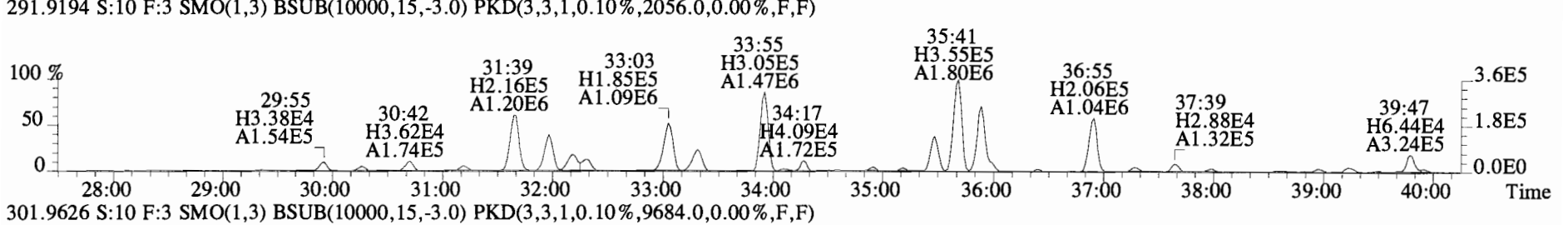
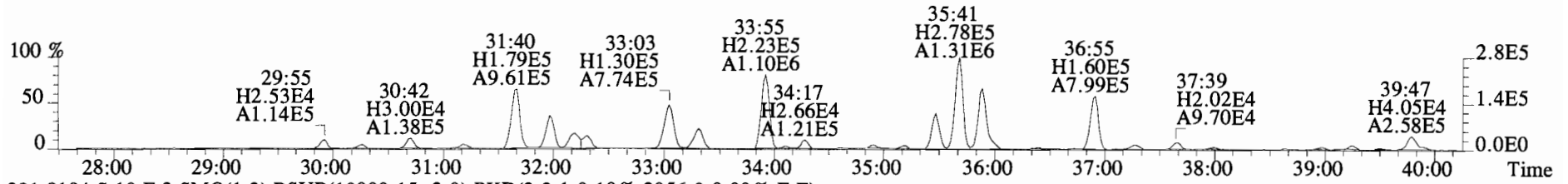
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10268.0,0.00%,F,F)



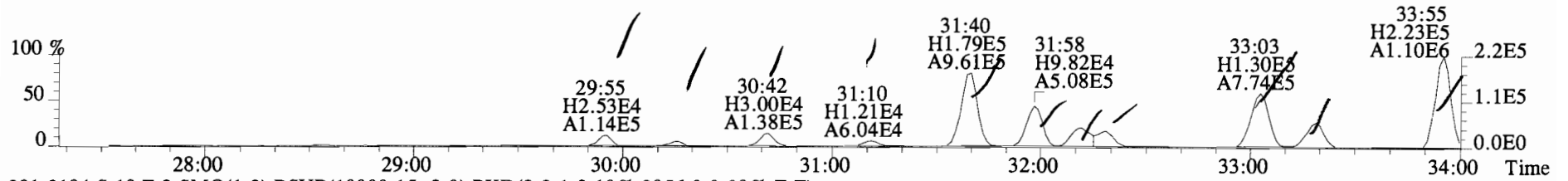
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,83076.0,0.00%,F,F)



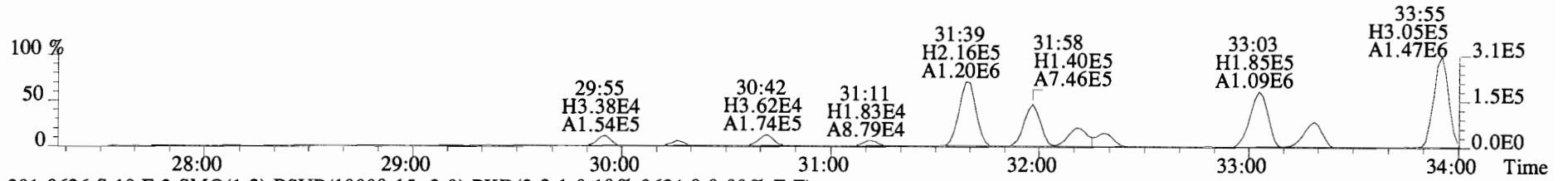
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



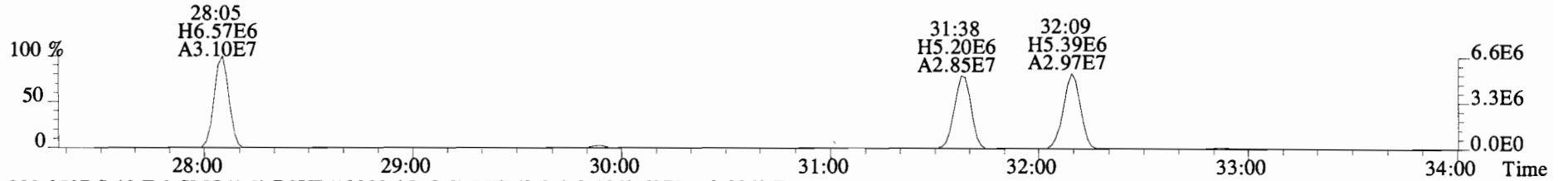
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



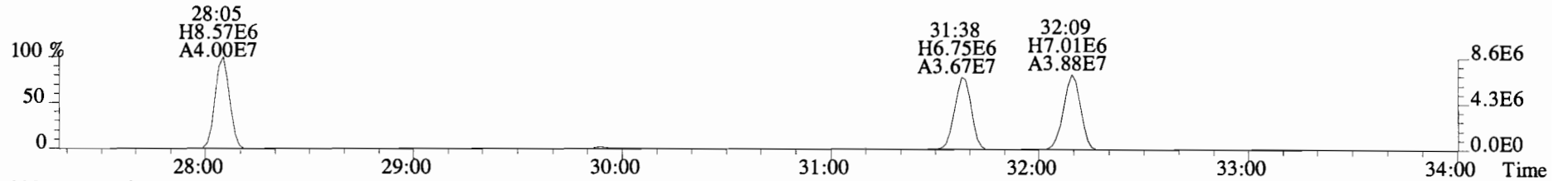
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



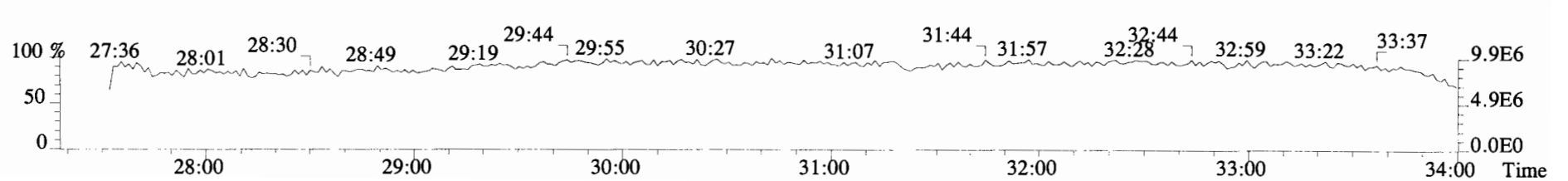
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9684.0,0.00%,F,F)



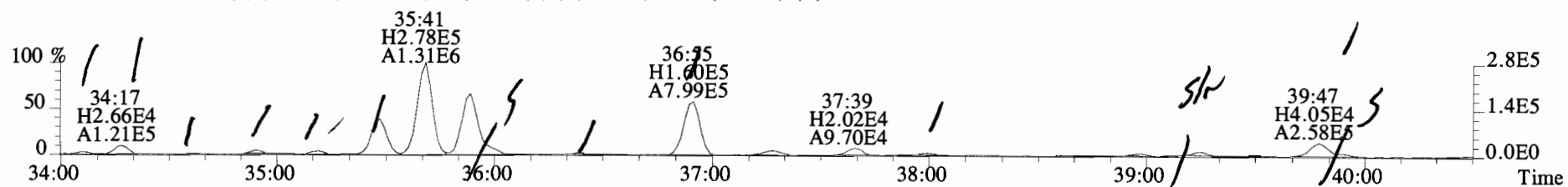
303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6372.0,0.00%,F,F)



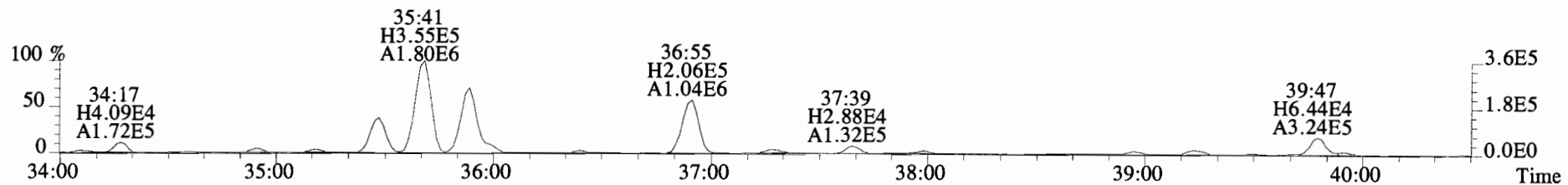
330.9792 S:10 F:3



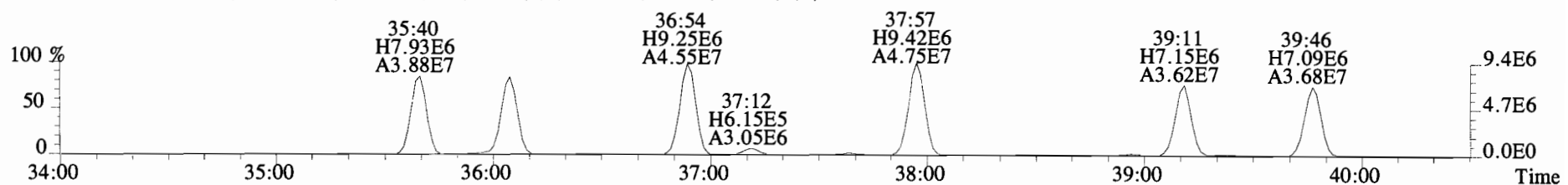
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



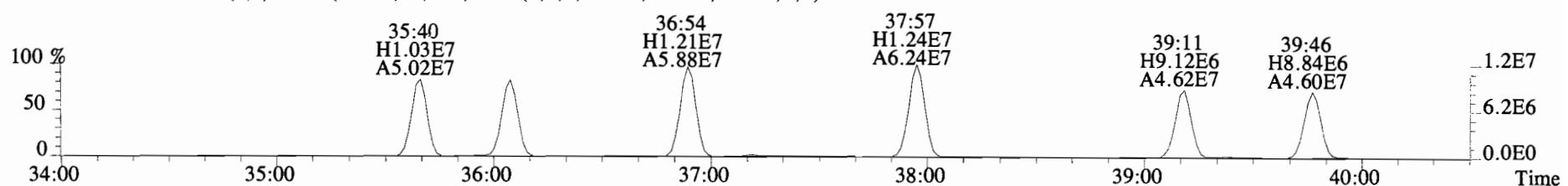
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



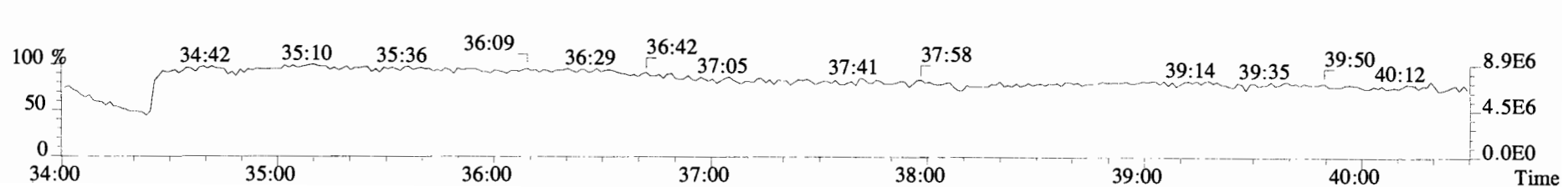
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9684.0,0.00%,F,F)



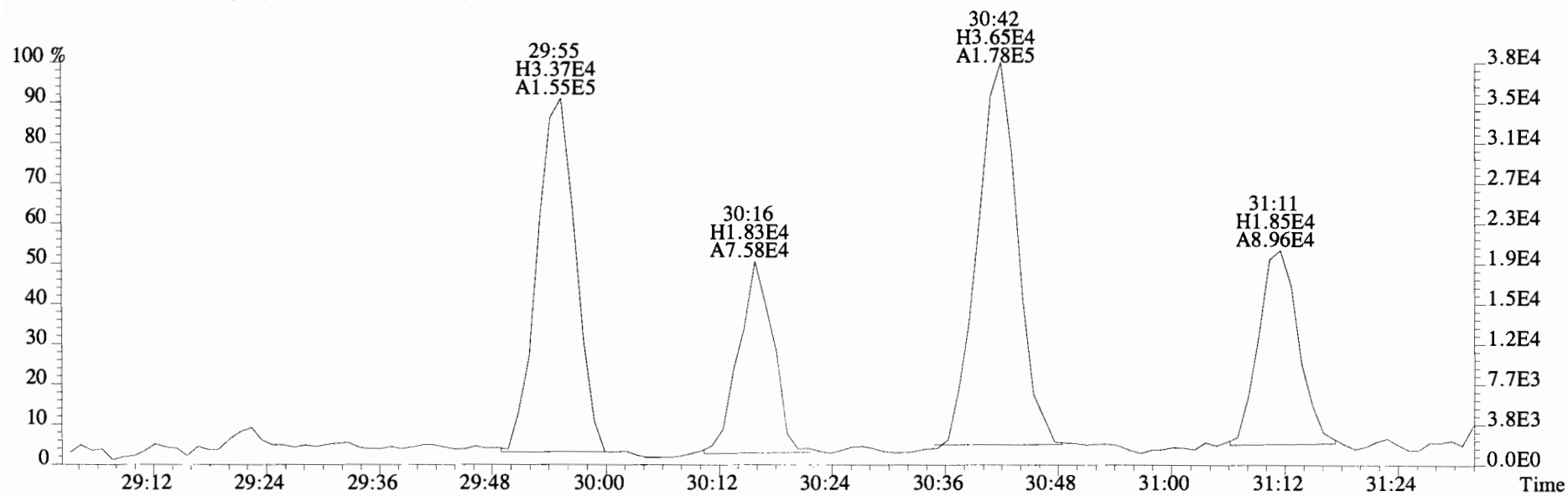
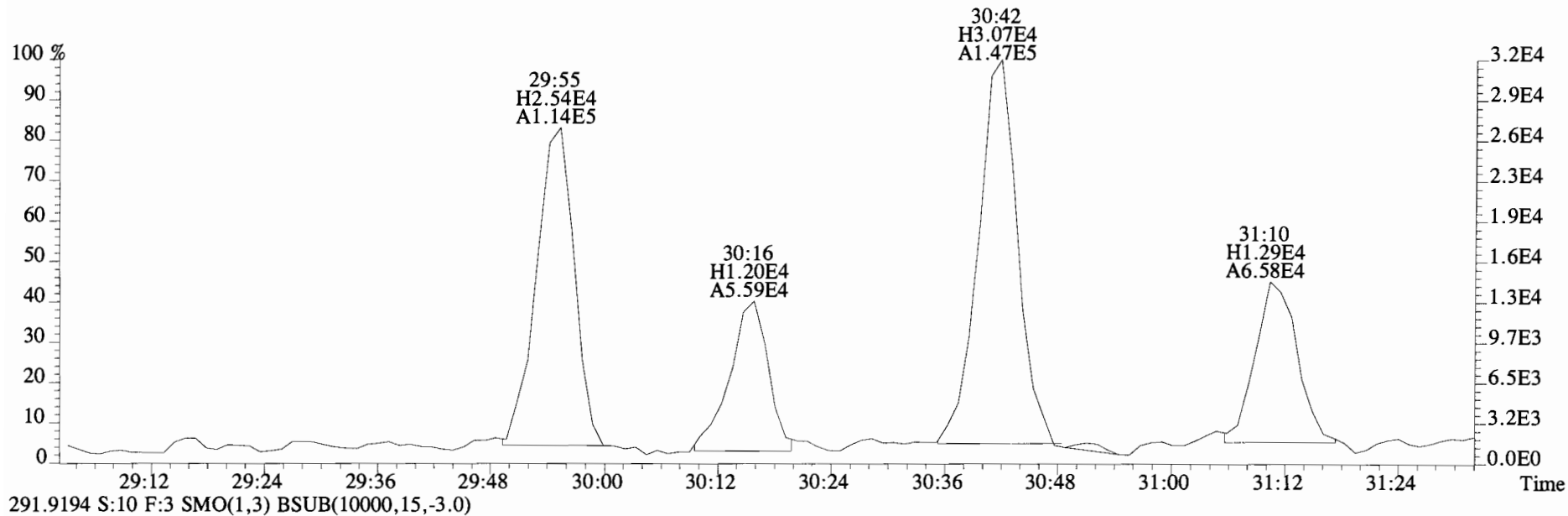
303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6372.0,0.00%,F,F)



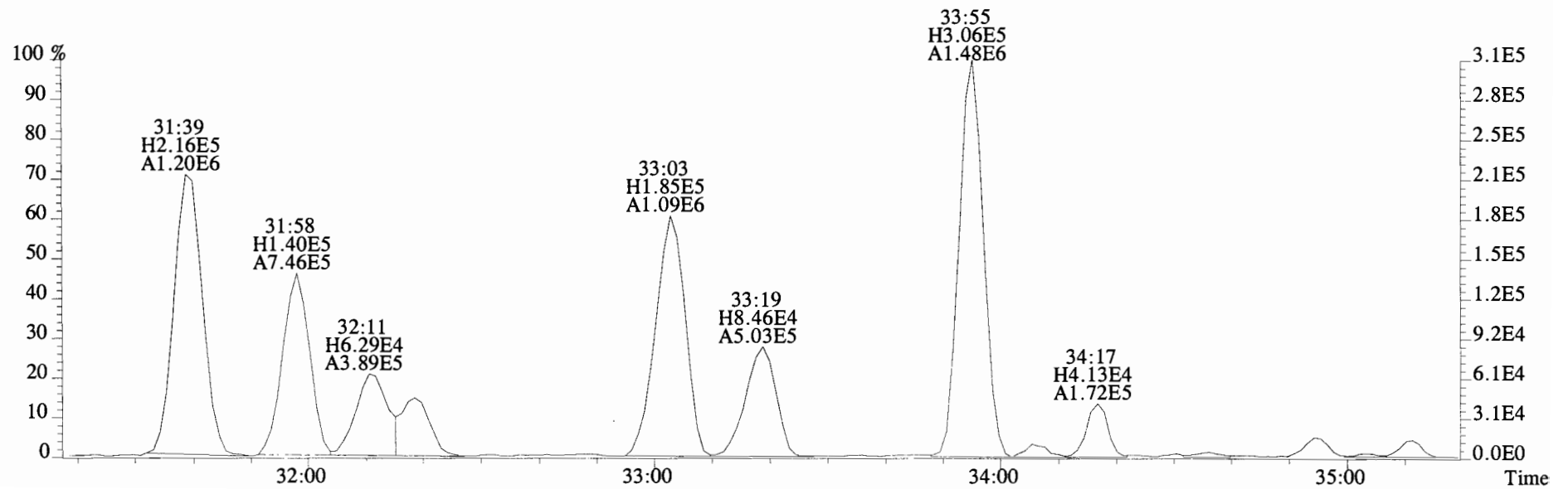
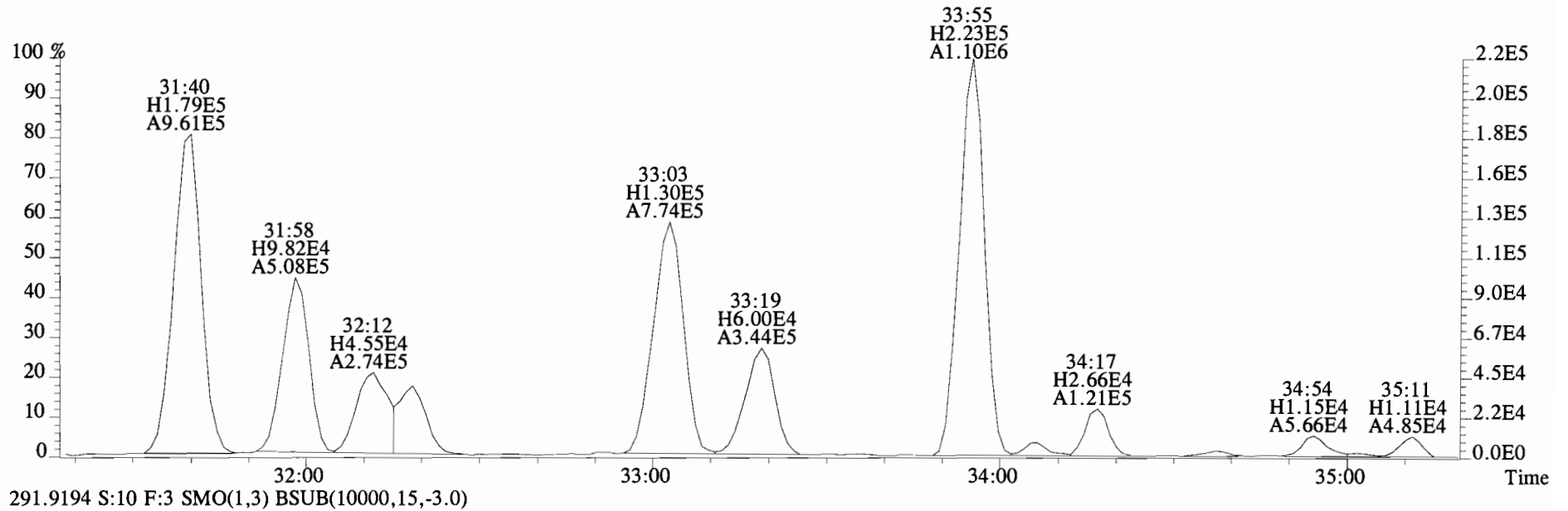
330.9792 S:10 F:3



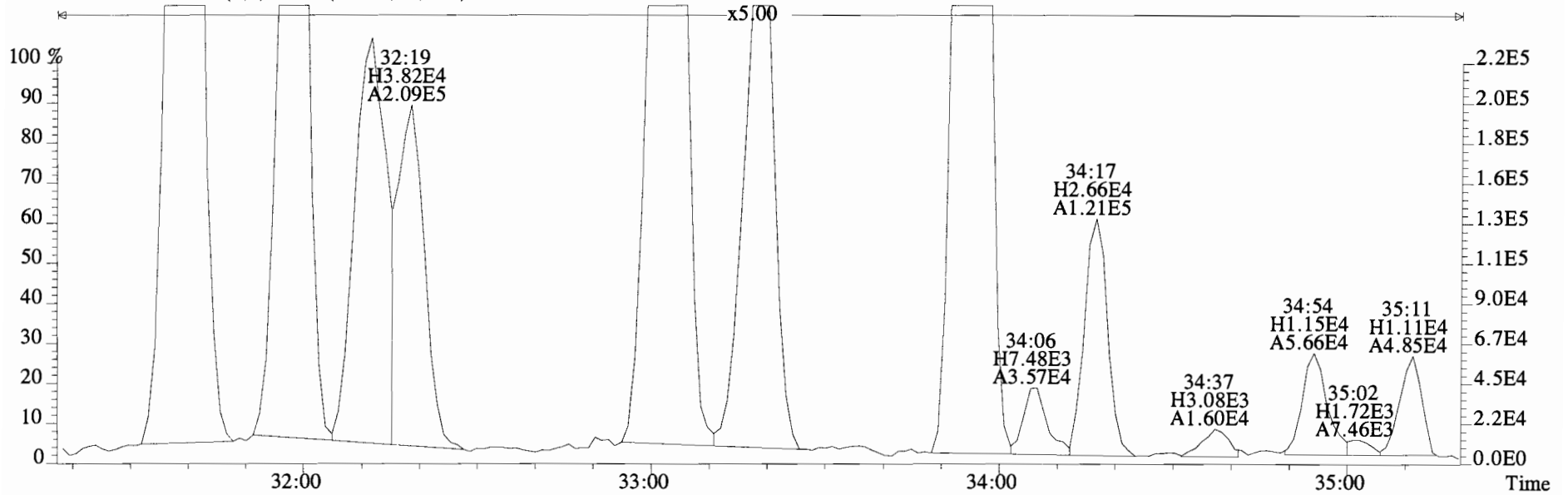
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



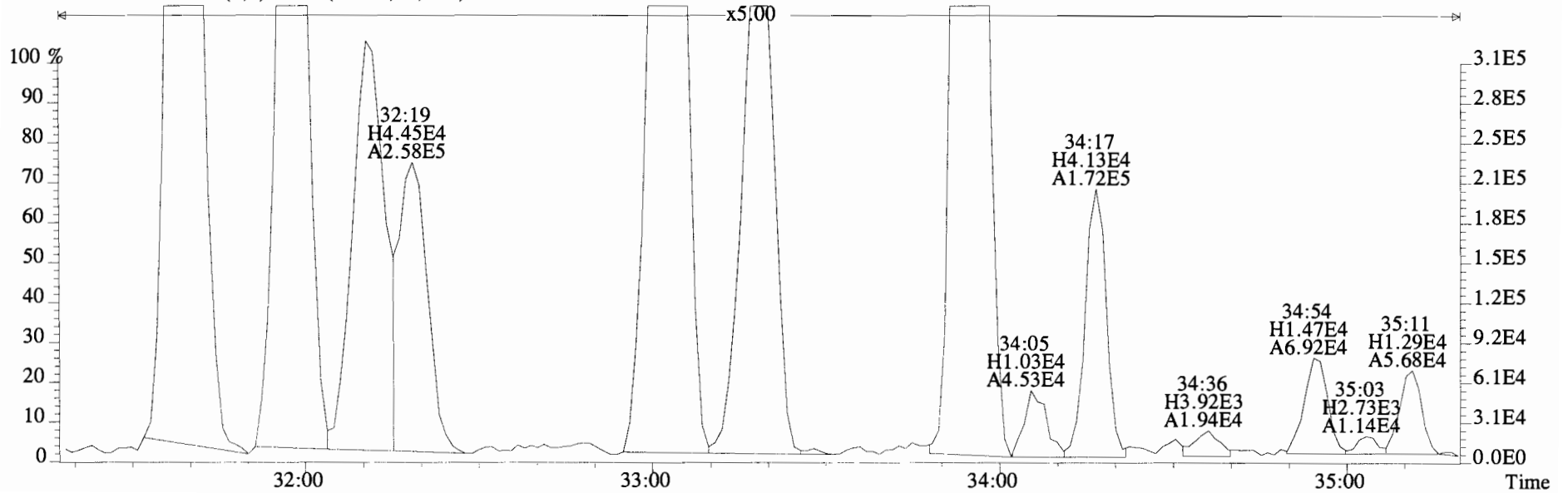
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
 289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
 289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)

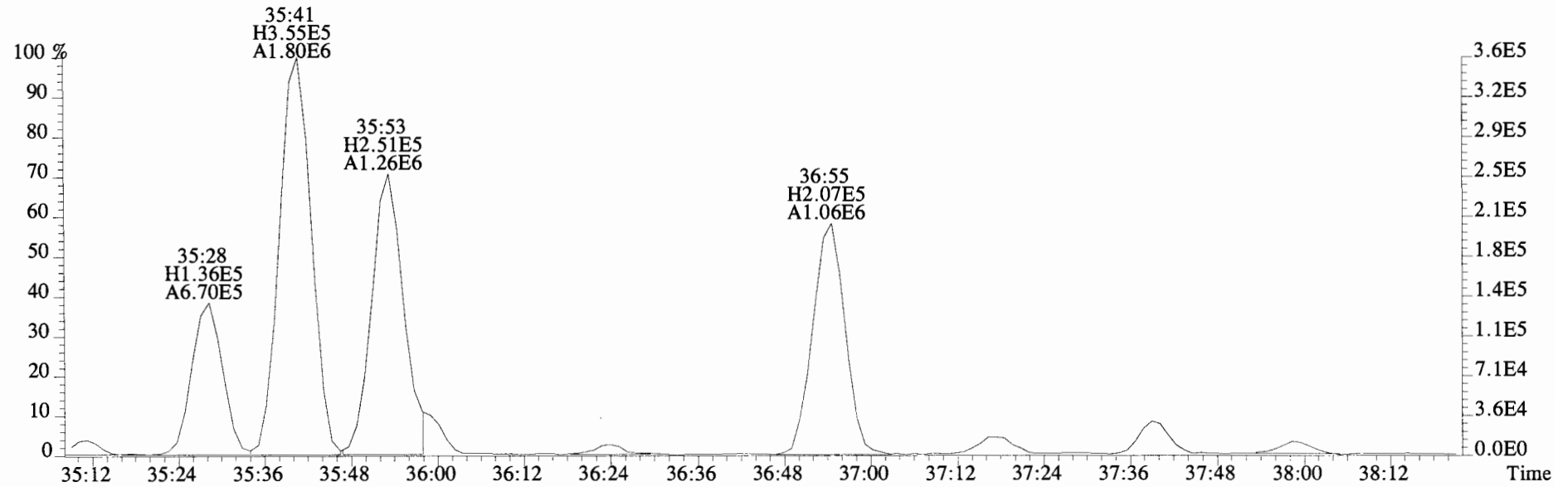
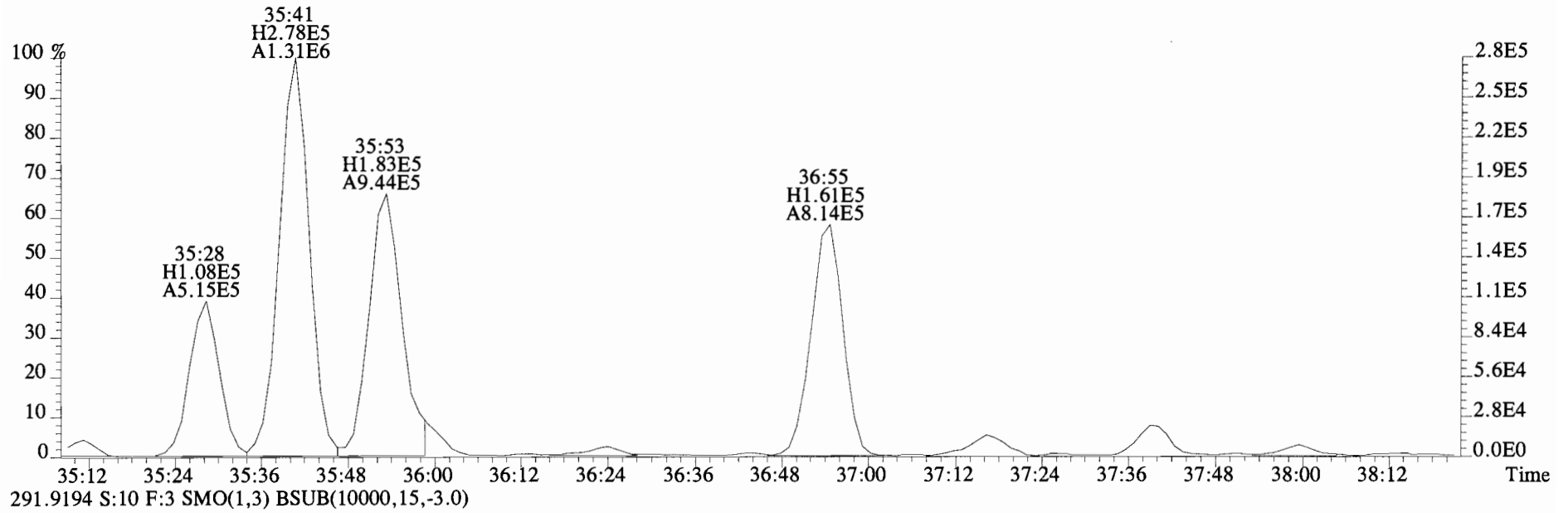


291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)

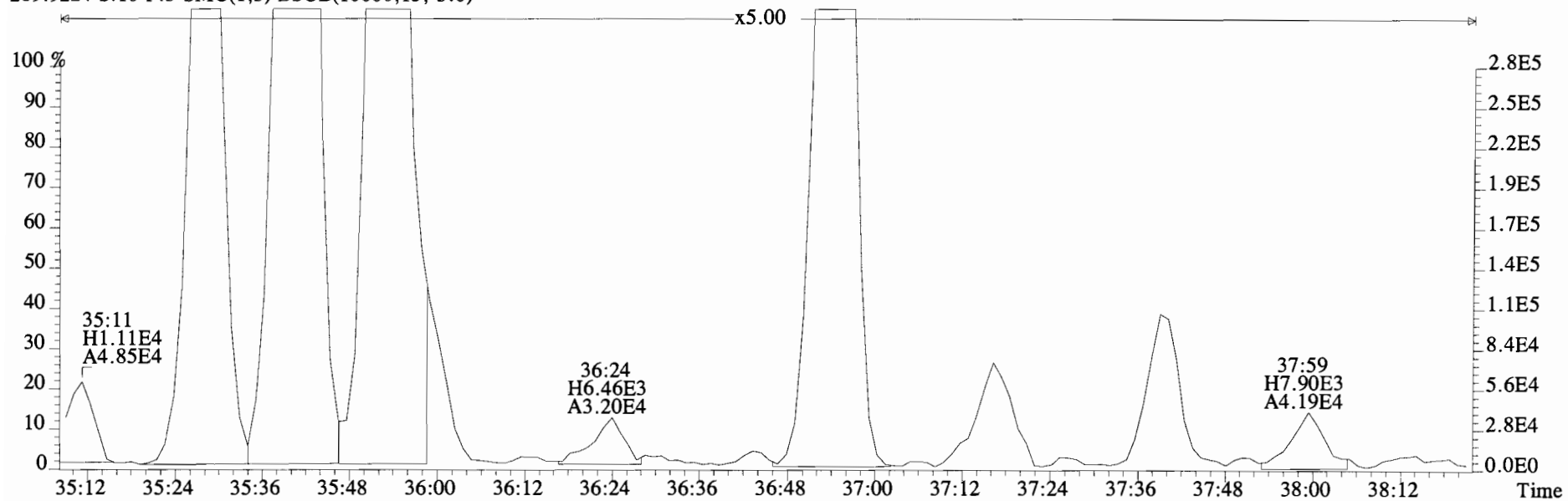




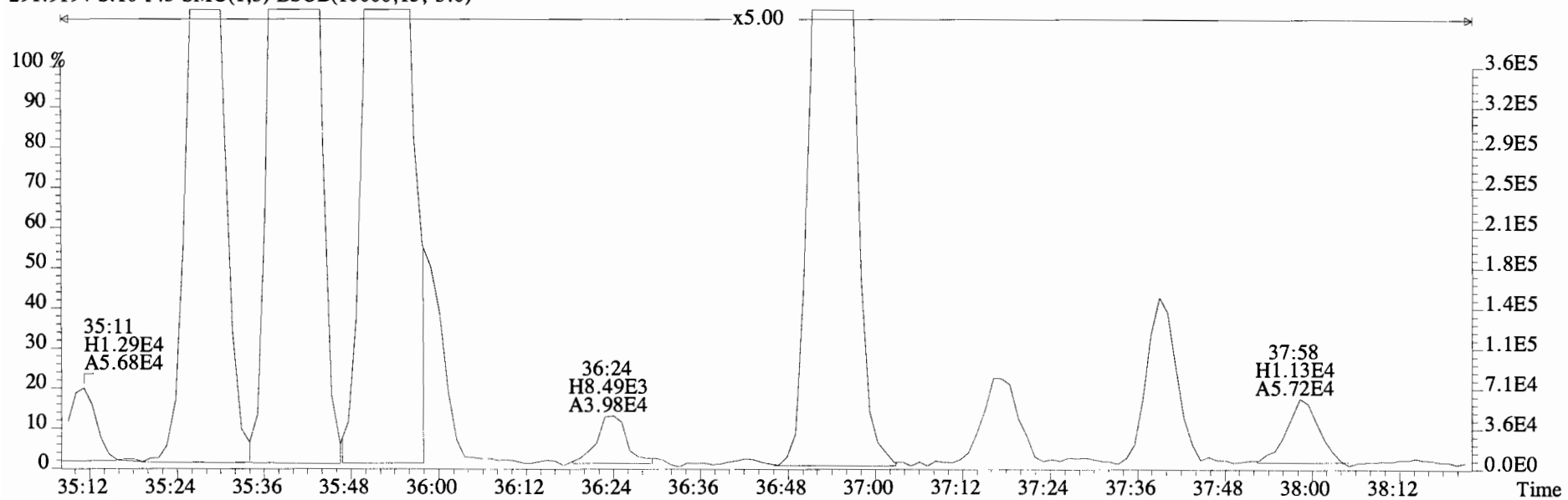
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



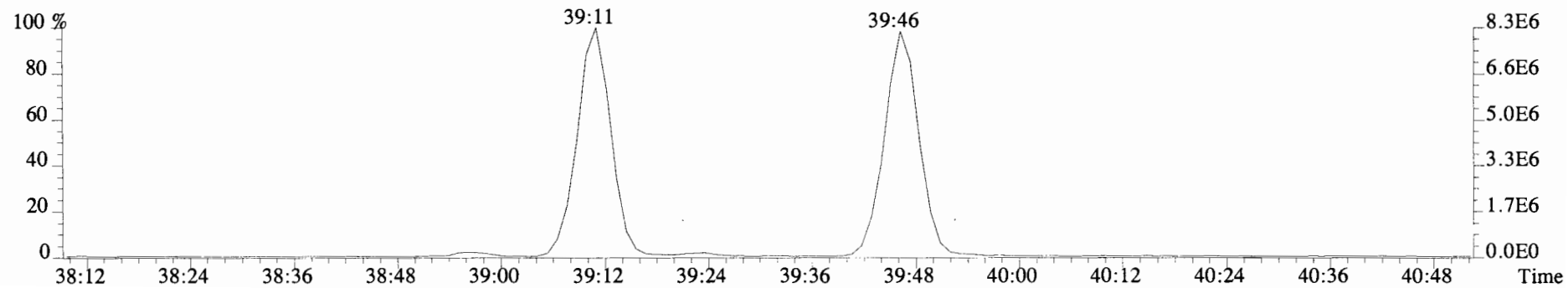
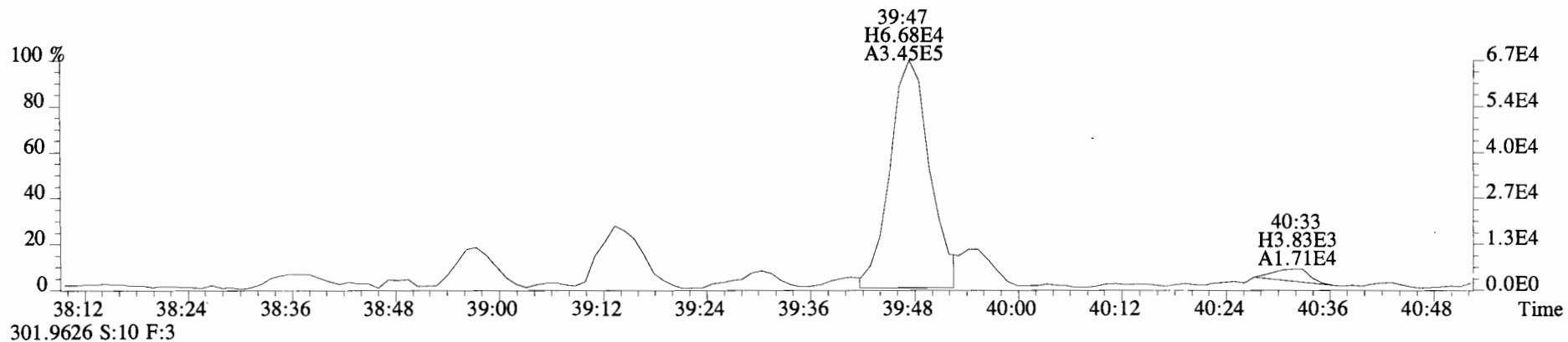
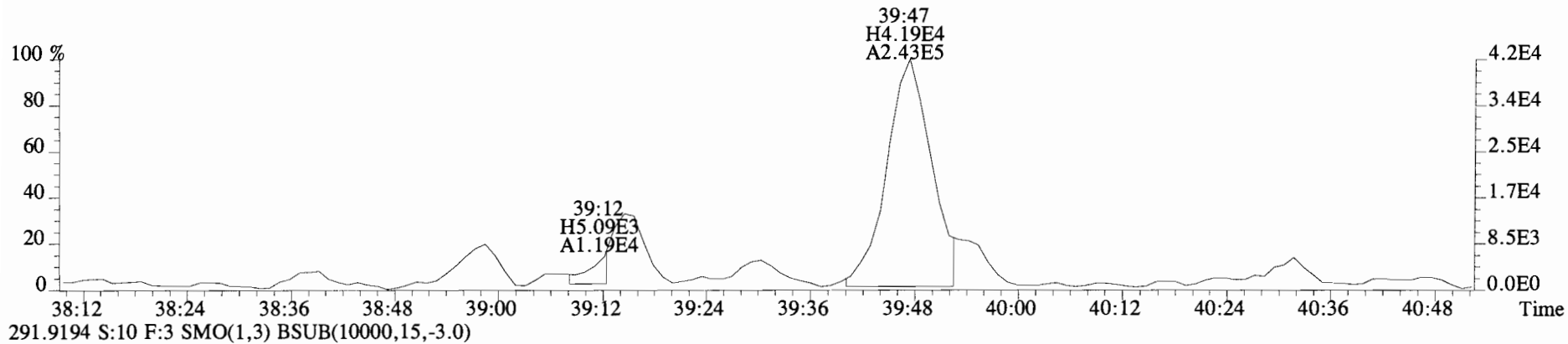
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



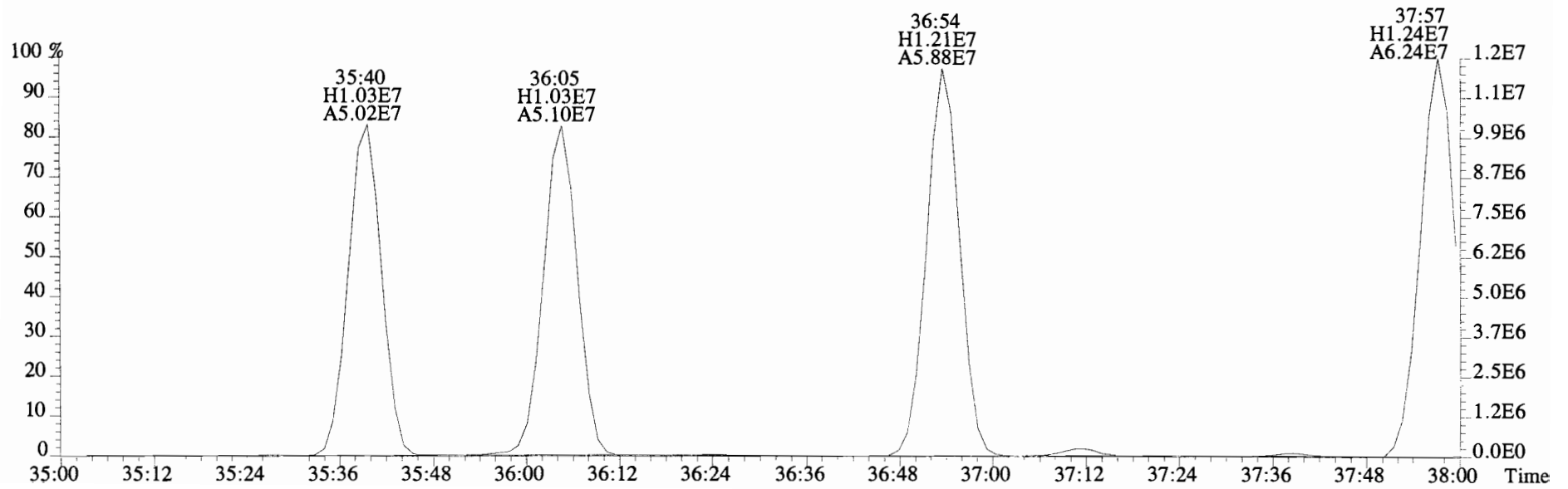
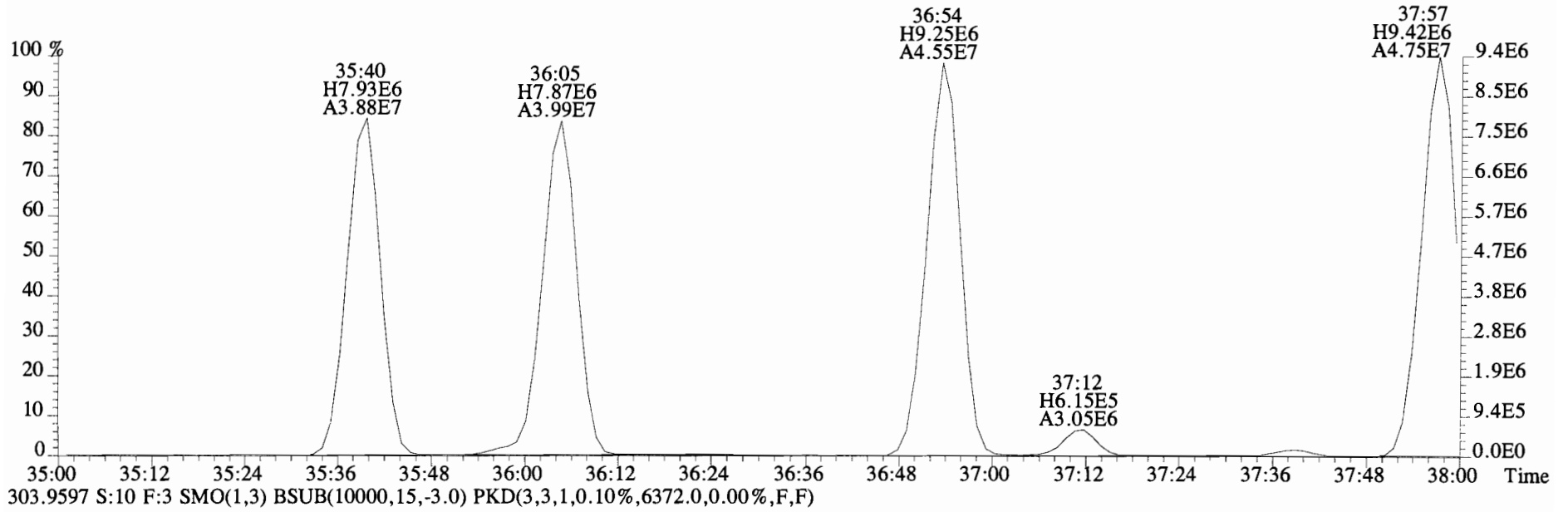
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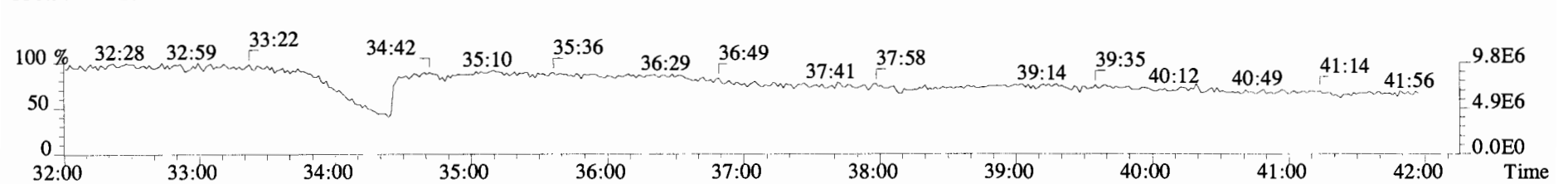
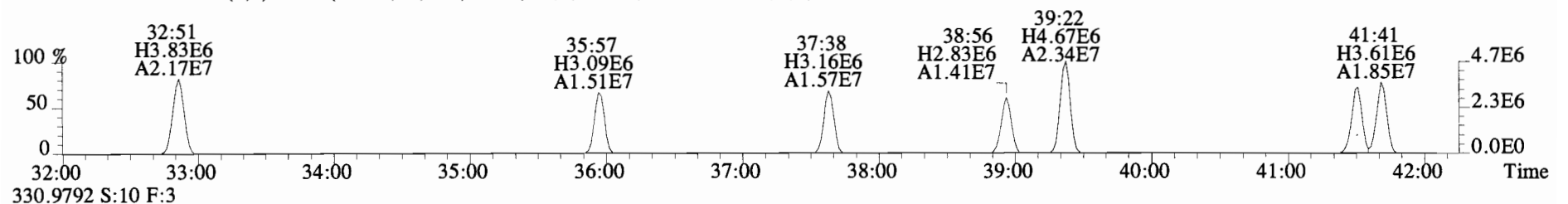
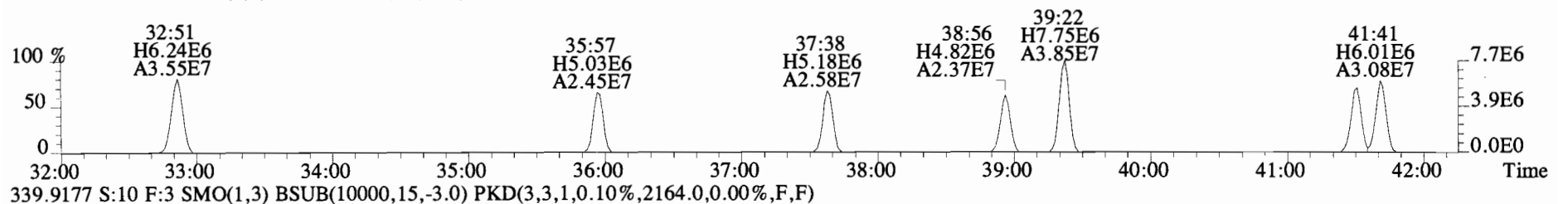
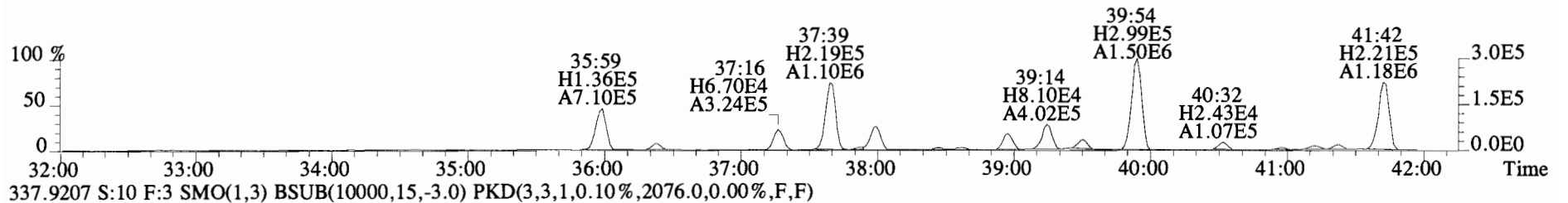
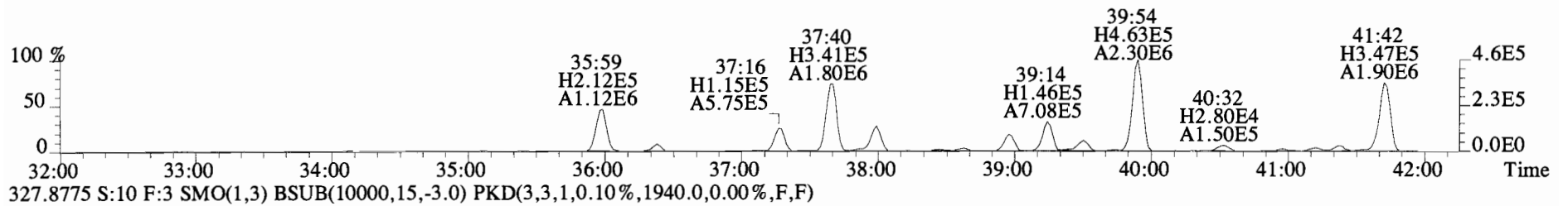
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



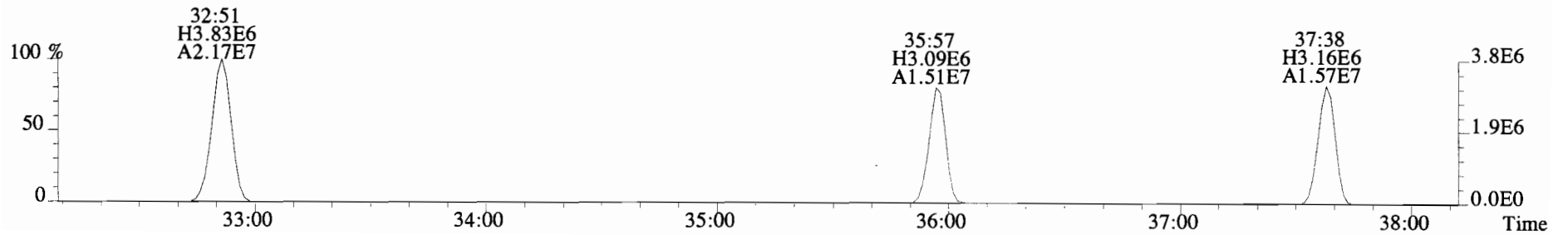
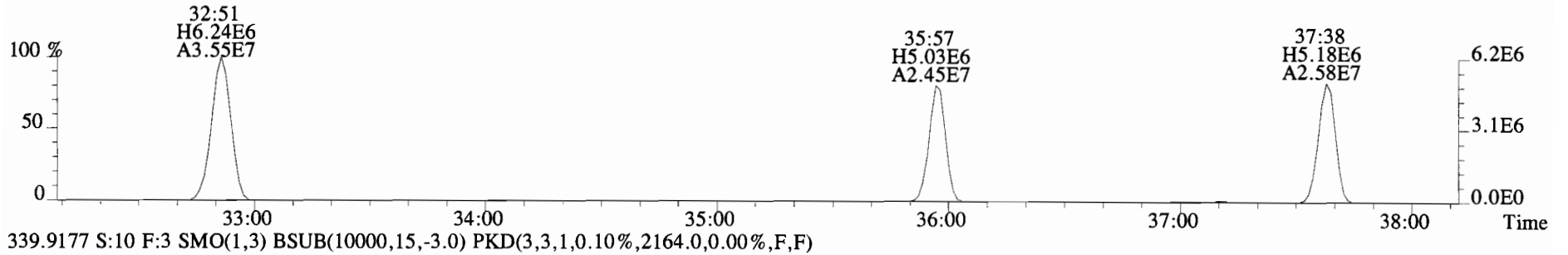
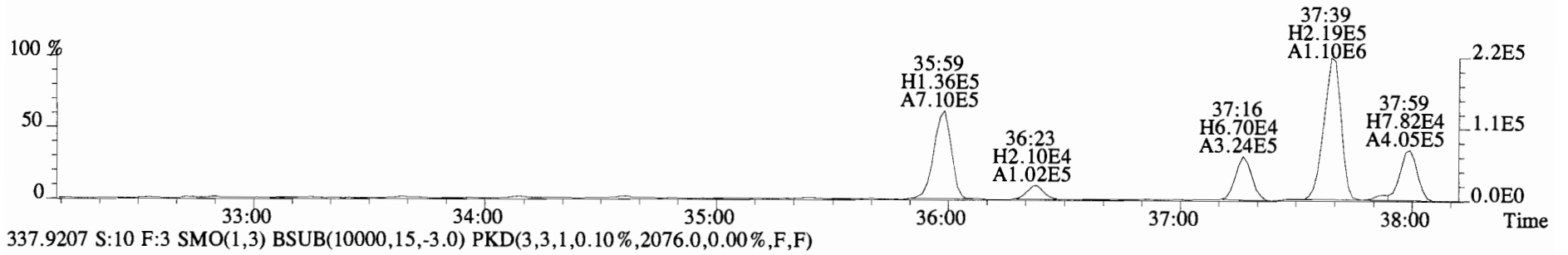
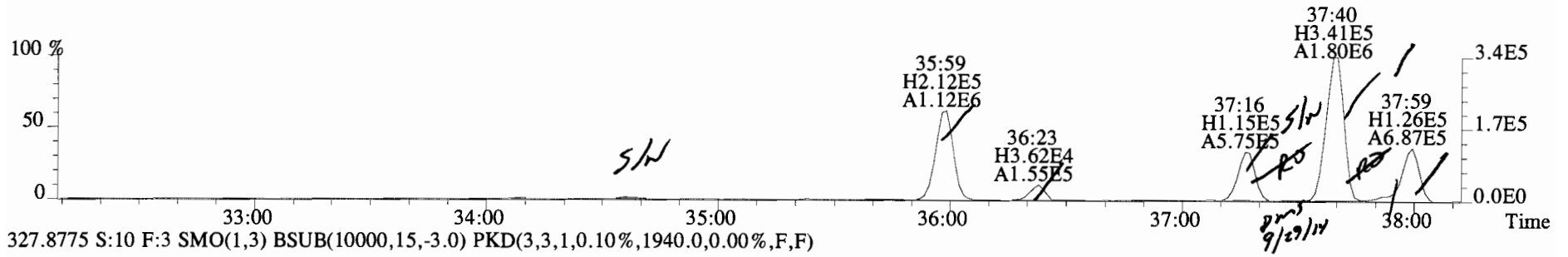
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9684.0,0.00%,F,F)



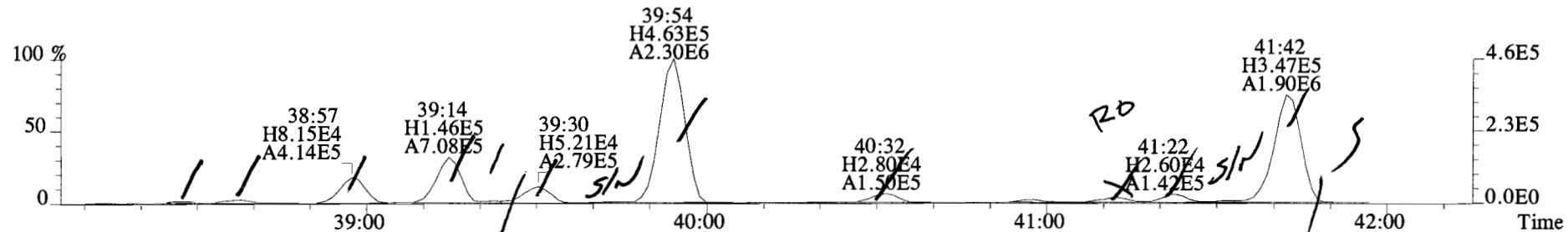
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
 325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



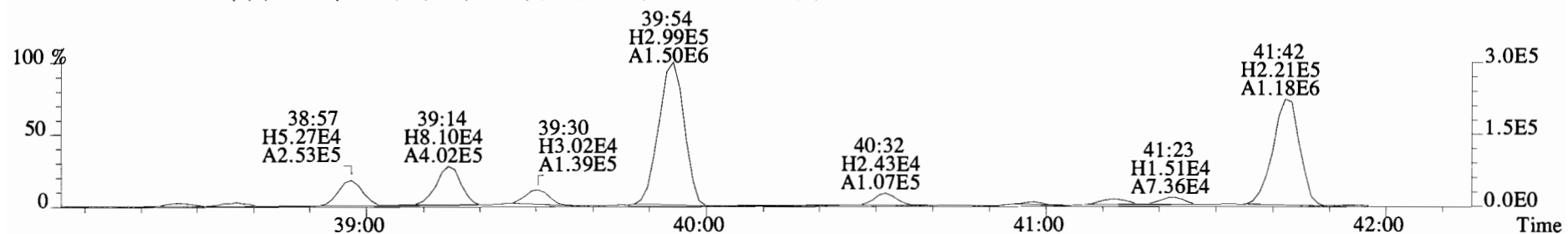
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



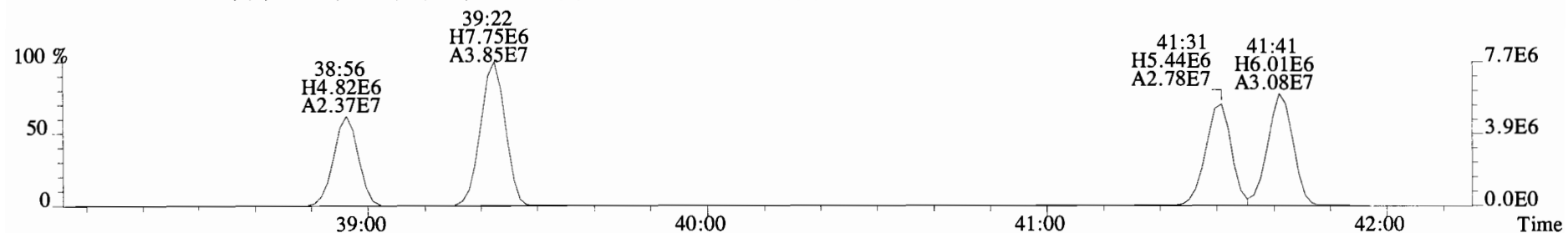
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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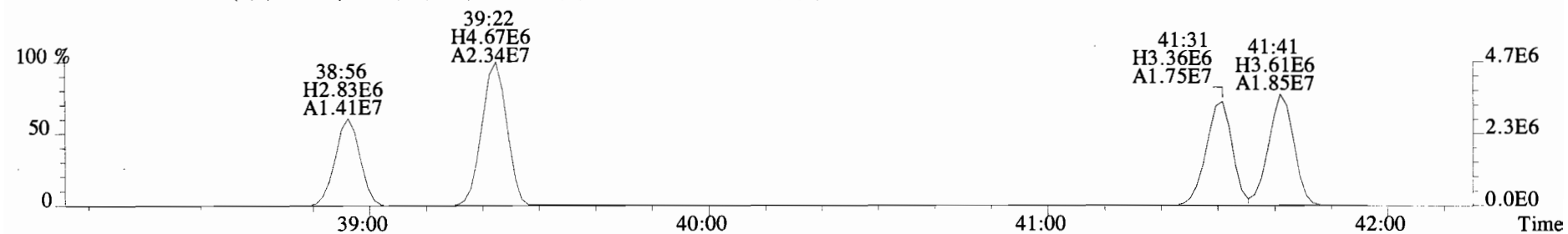
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1940.0,0.00%,F,F)



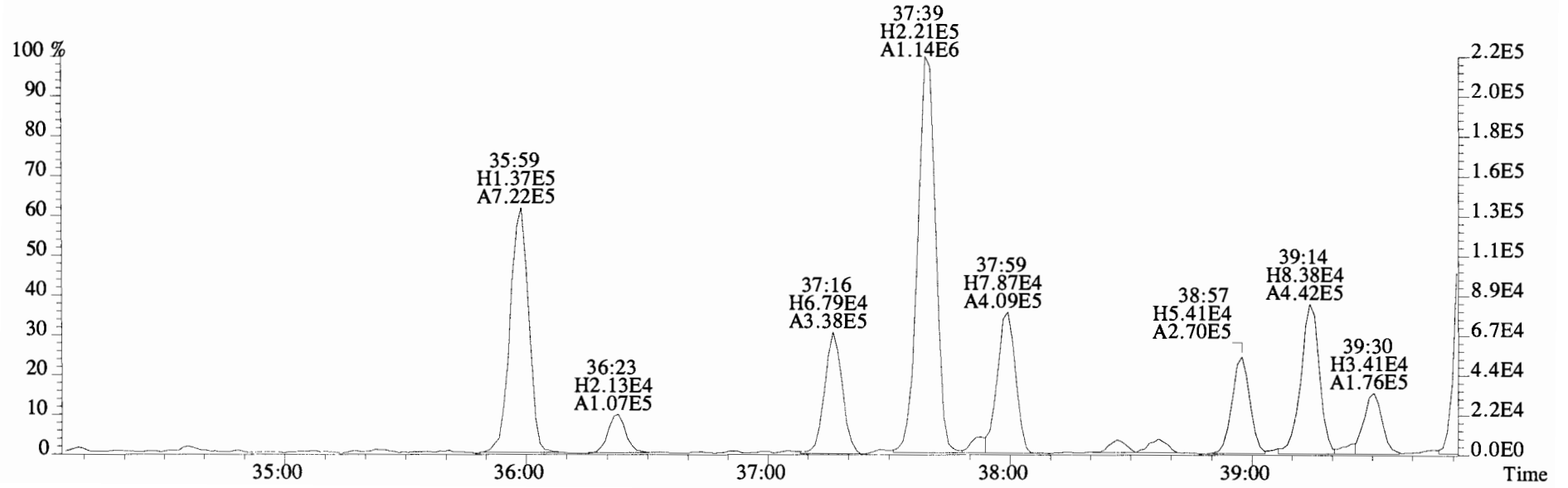
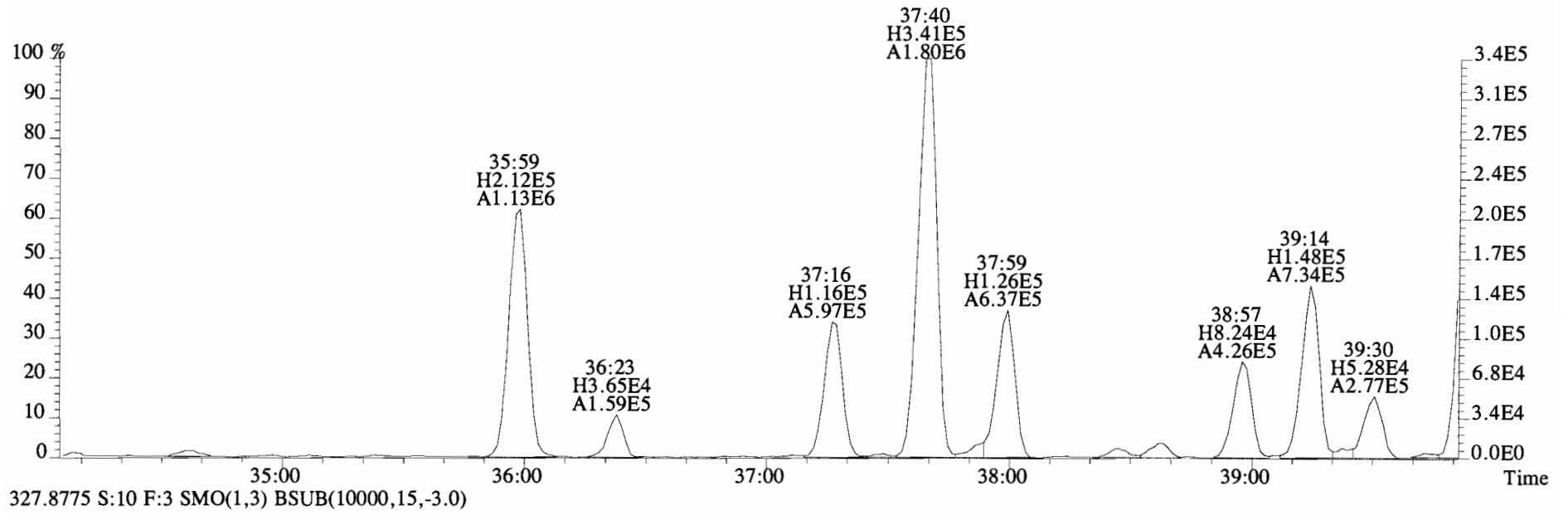
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2164.0,0.00%,F,F)

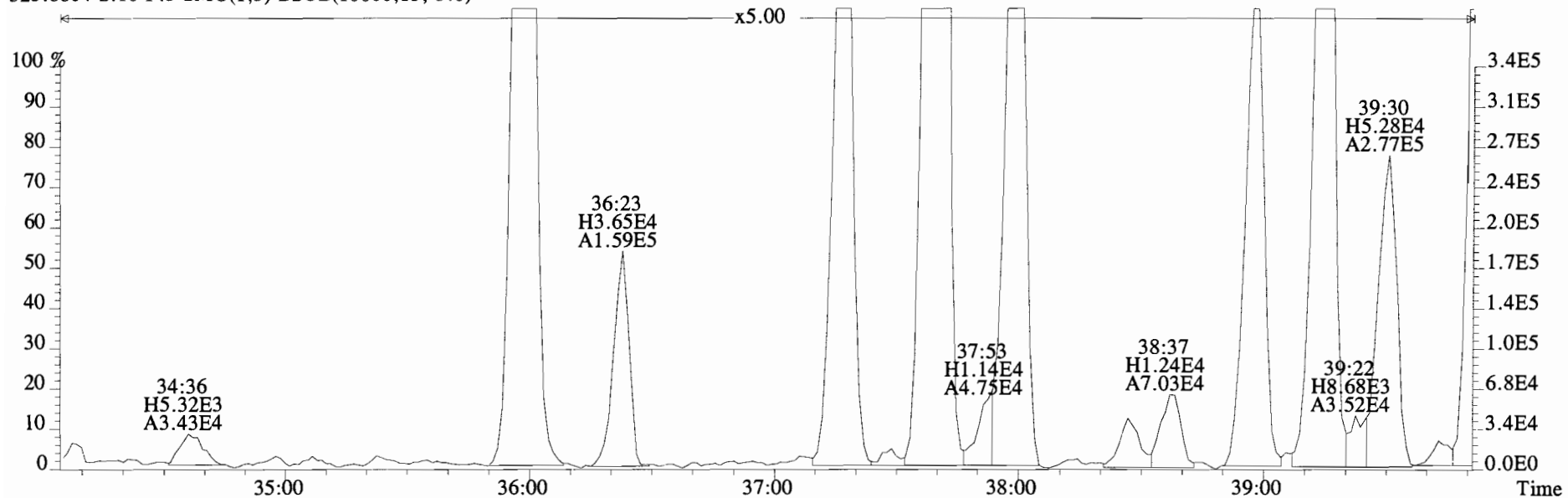


File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
 325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)

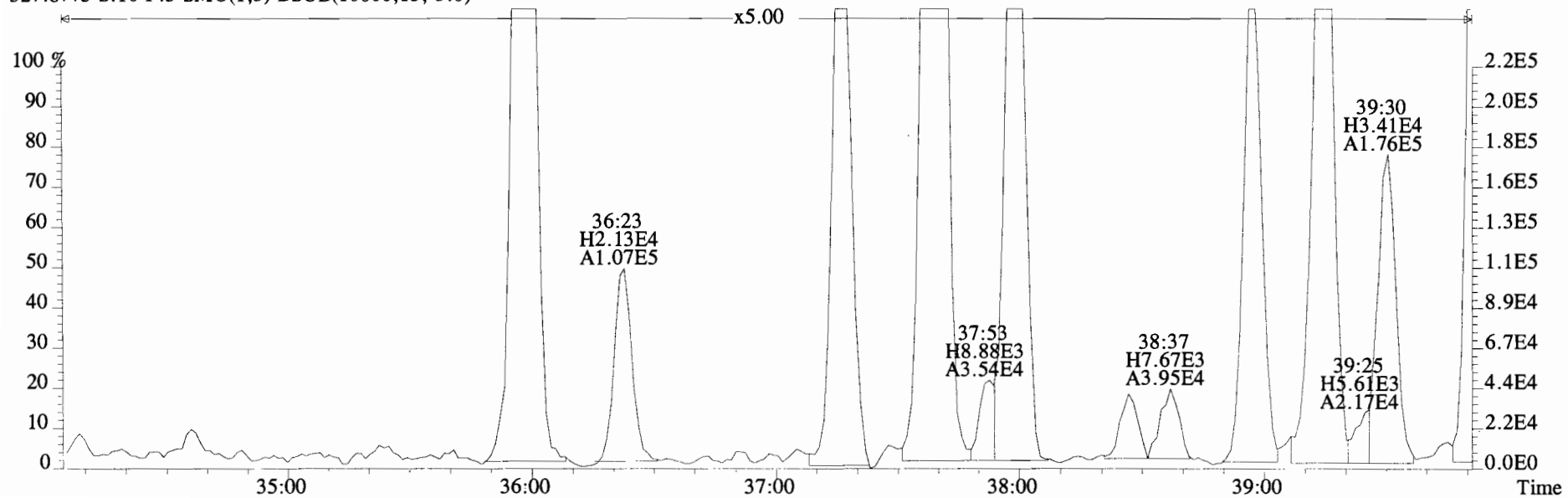




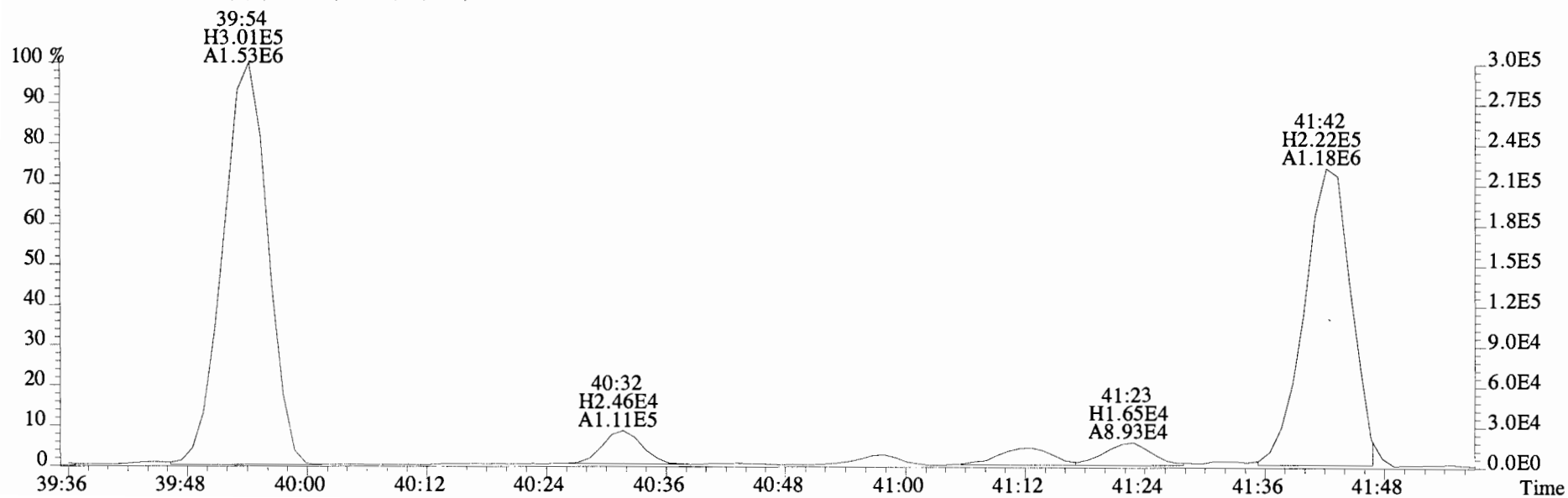
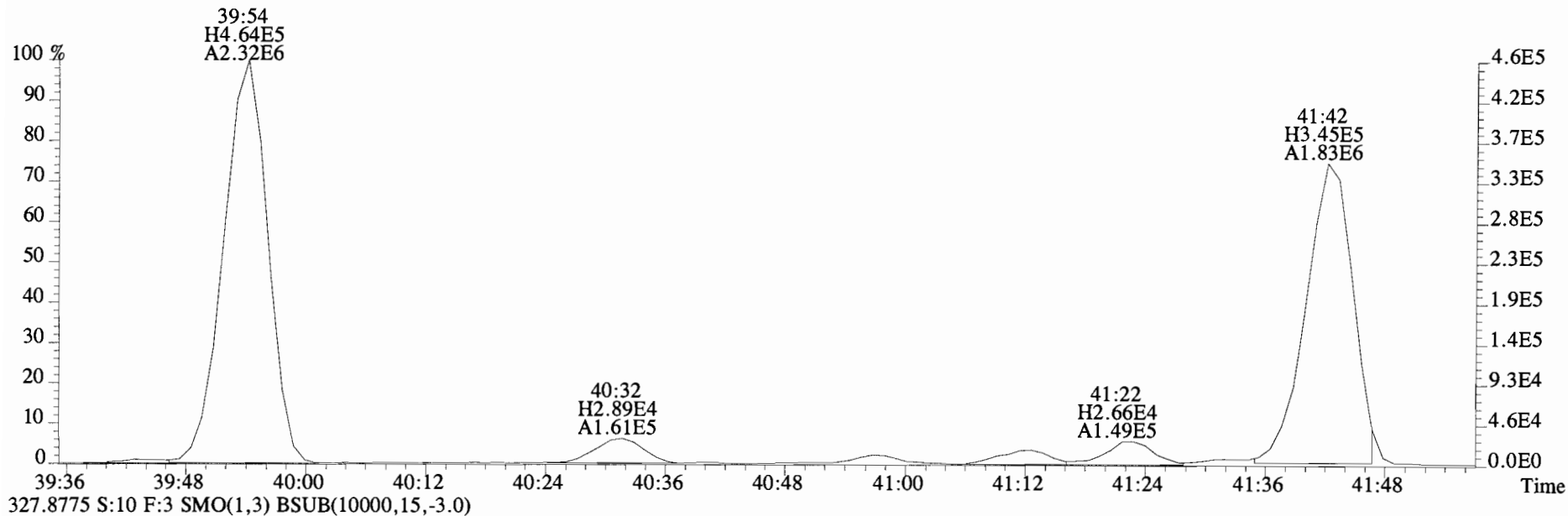
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



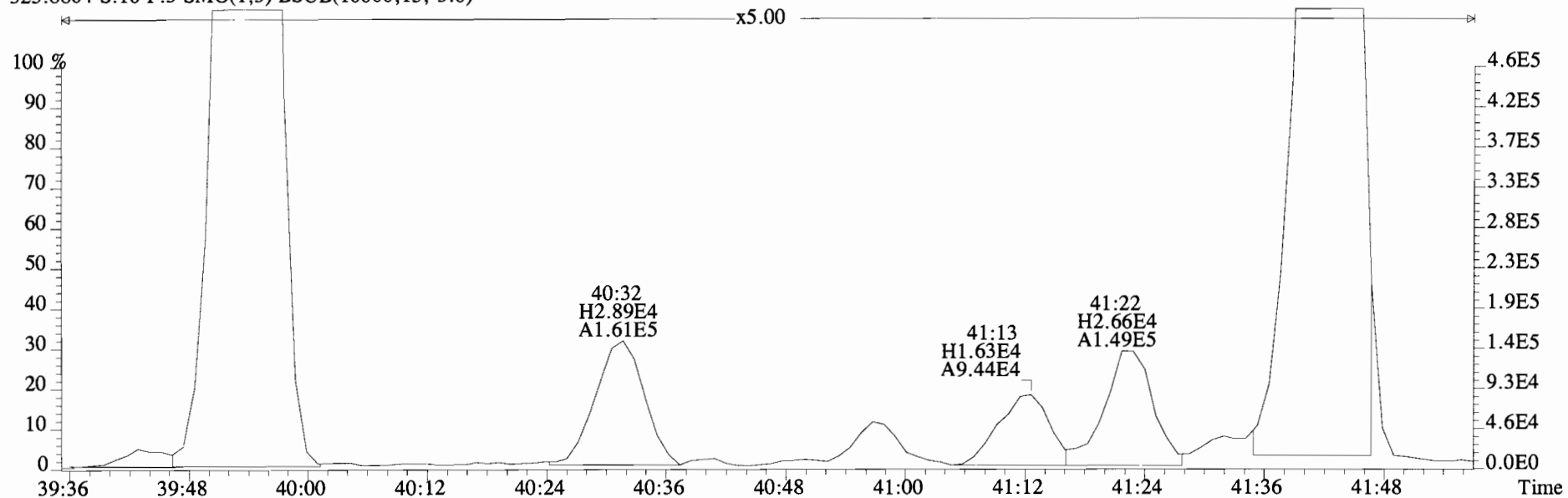
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



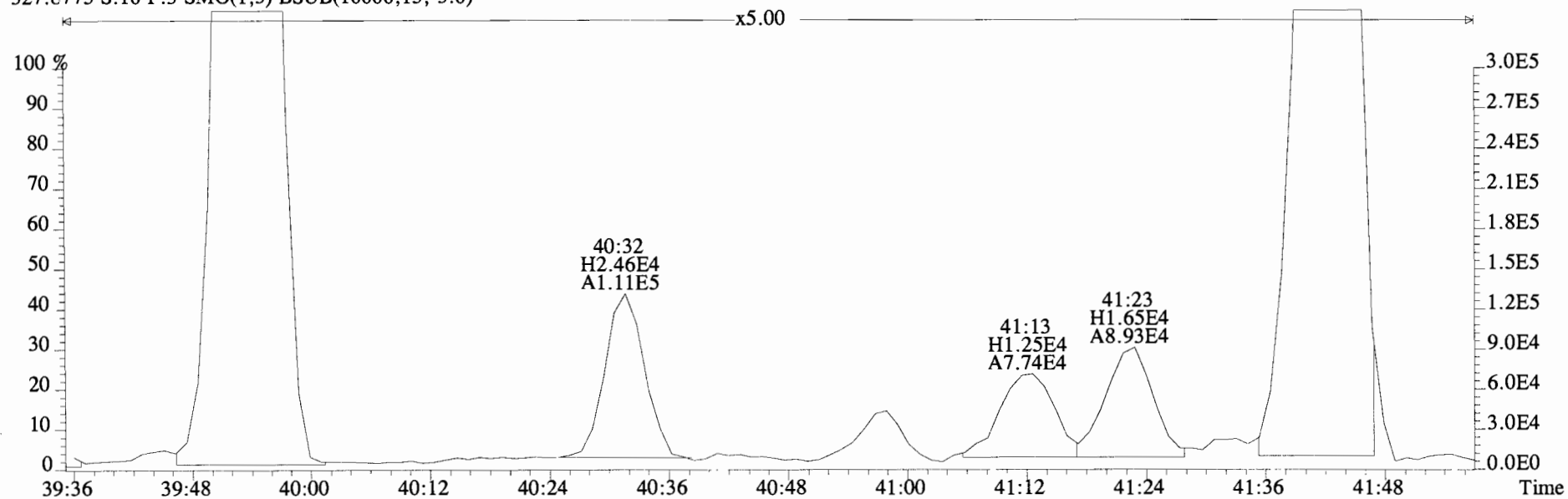
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



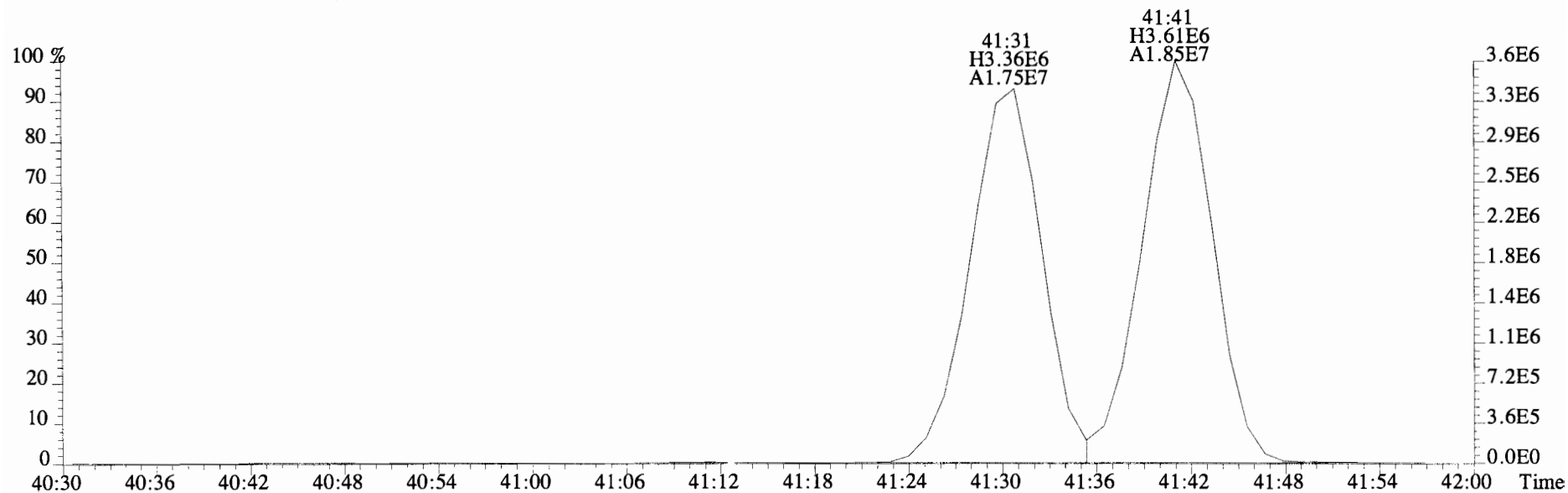
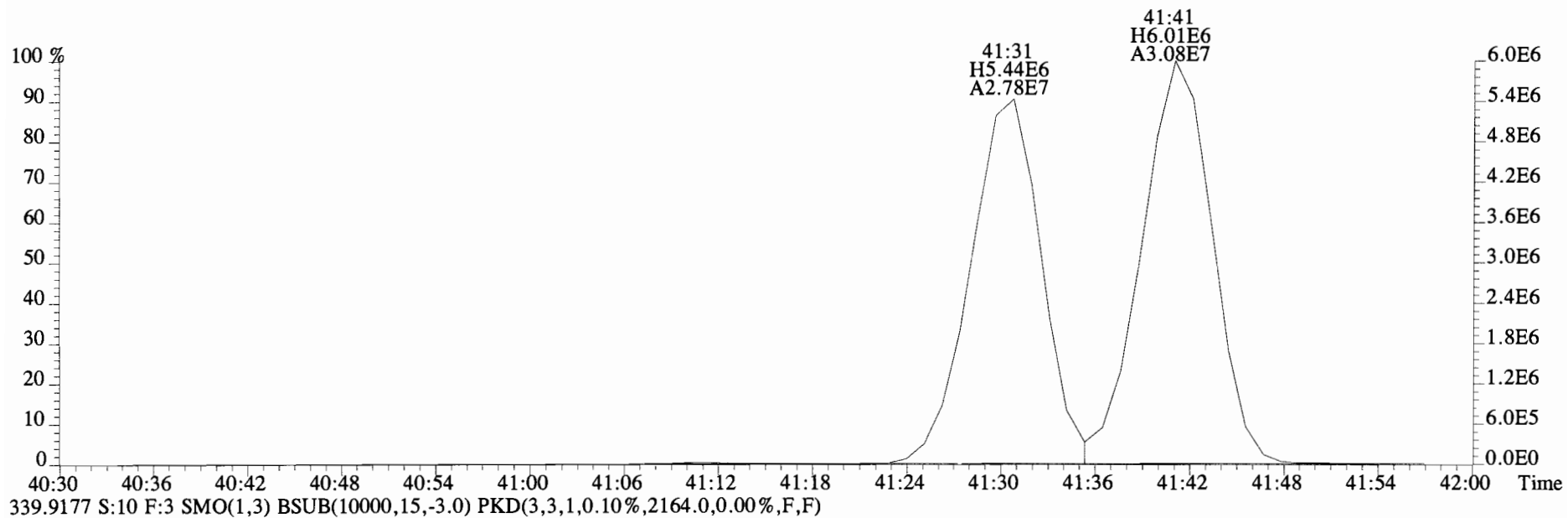
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



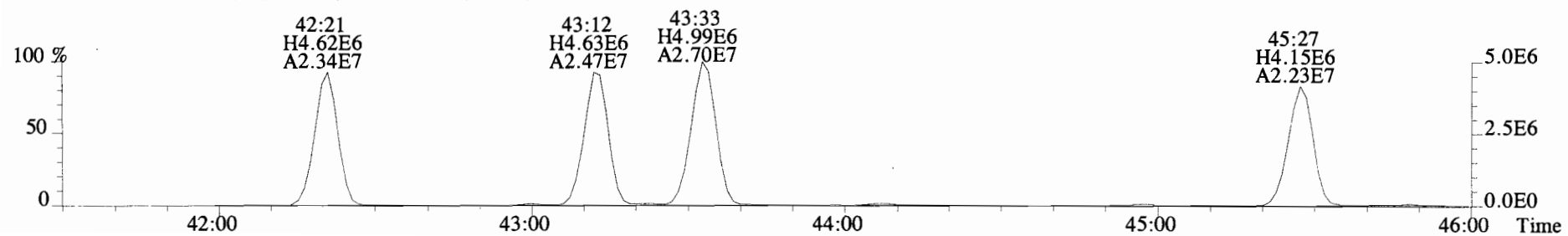
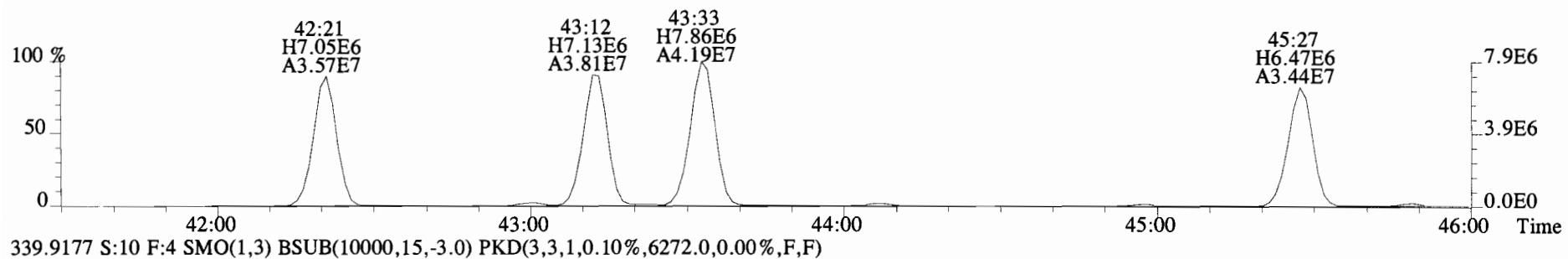
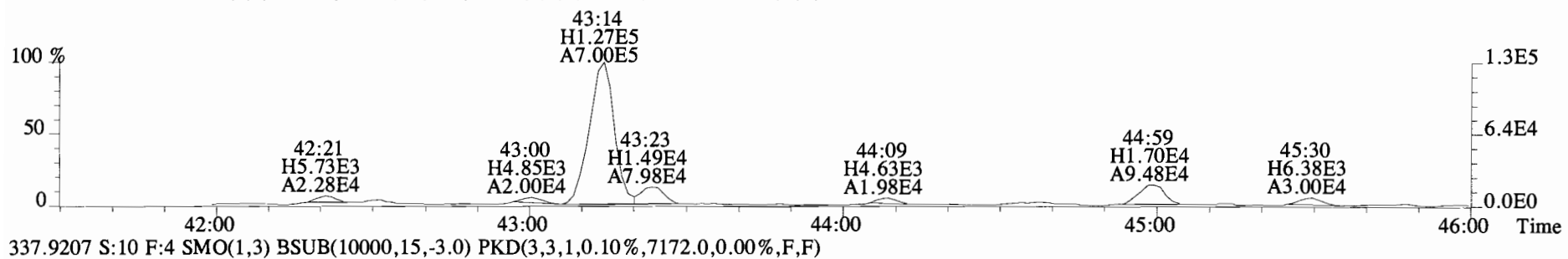
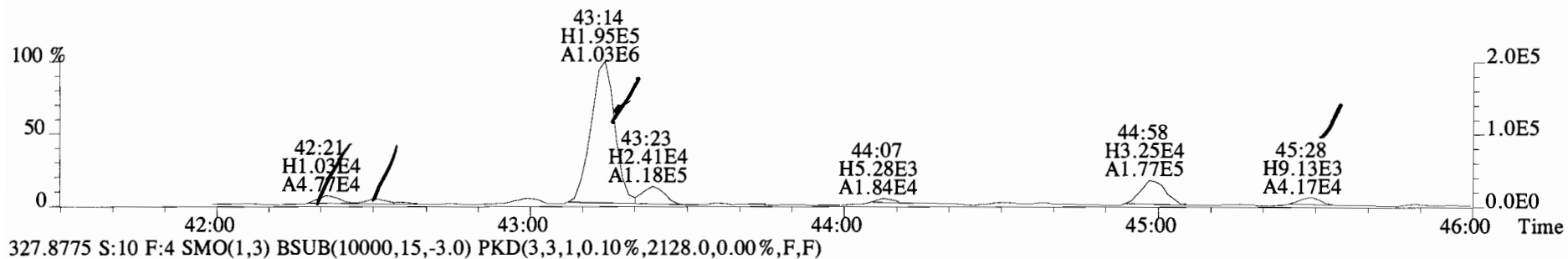
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



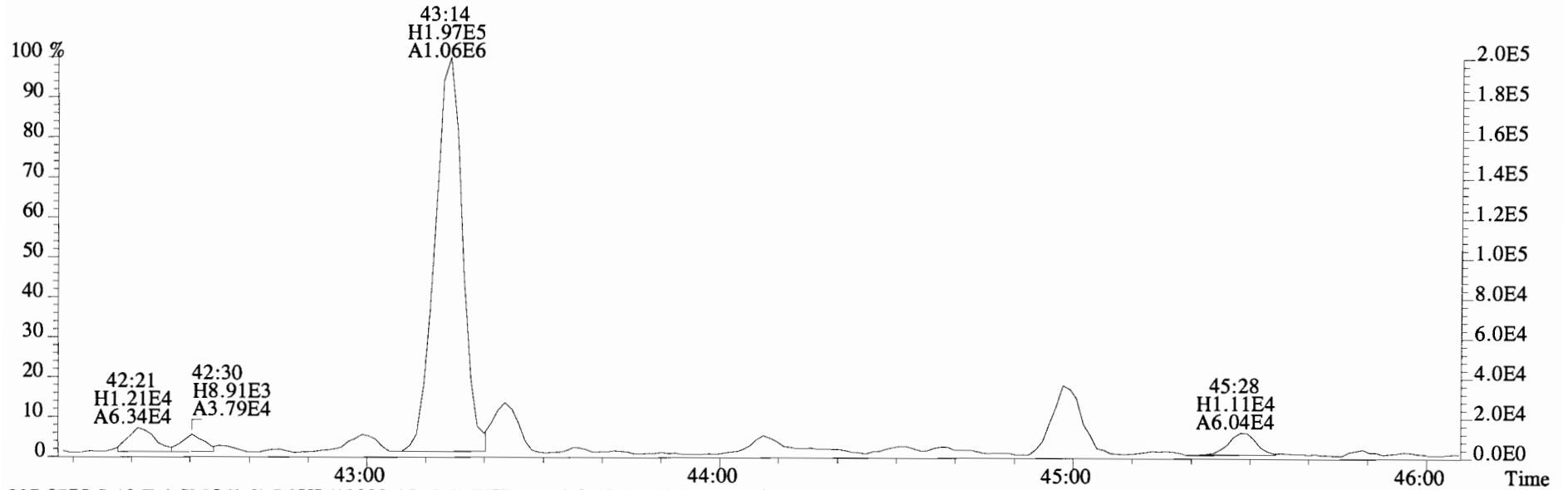
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



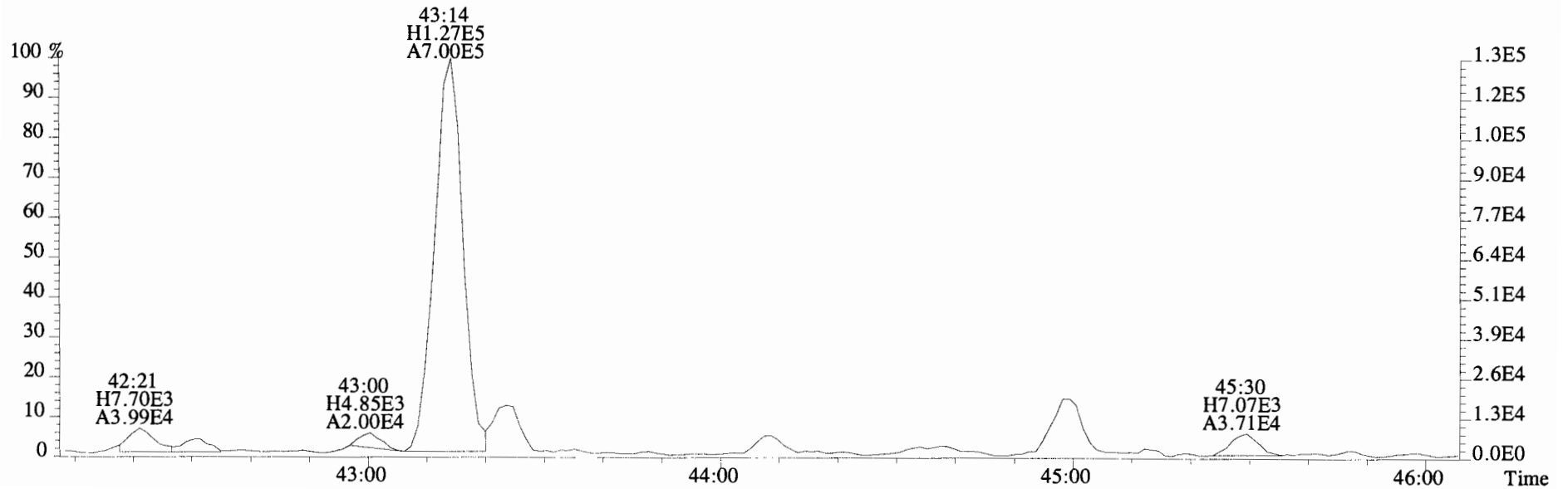
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3792.0,0.00%,F,F)



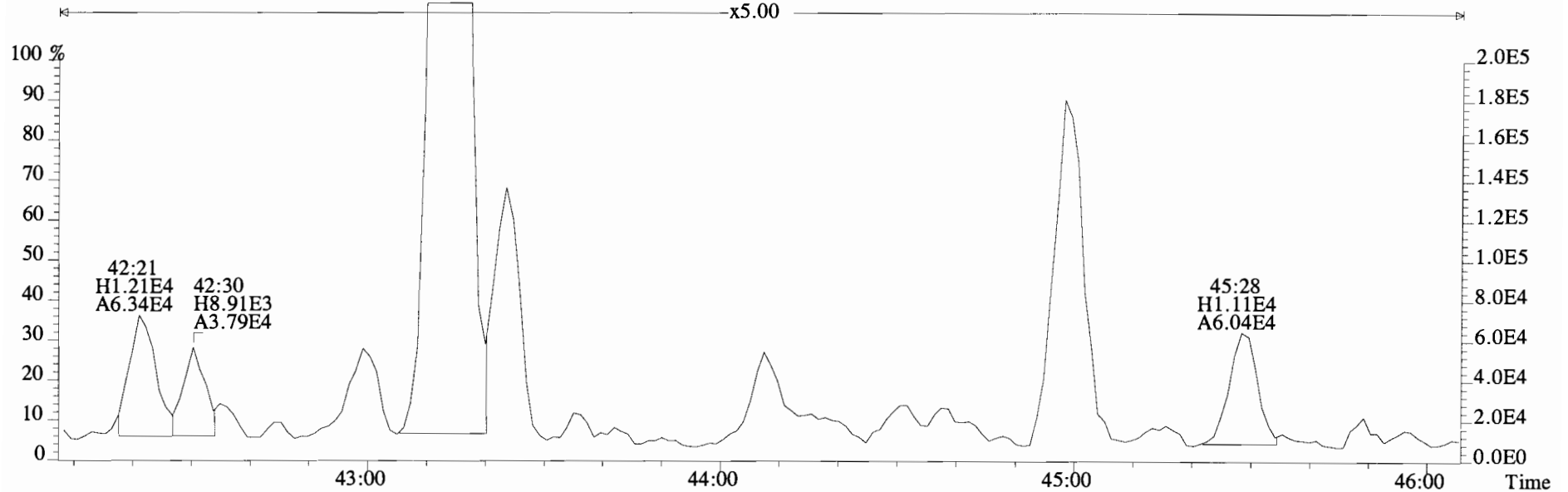
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3792.0,0.00%,F,F)



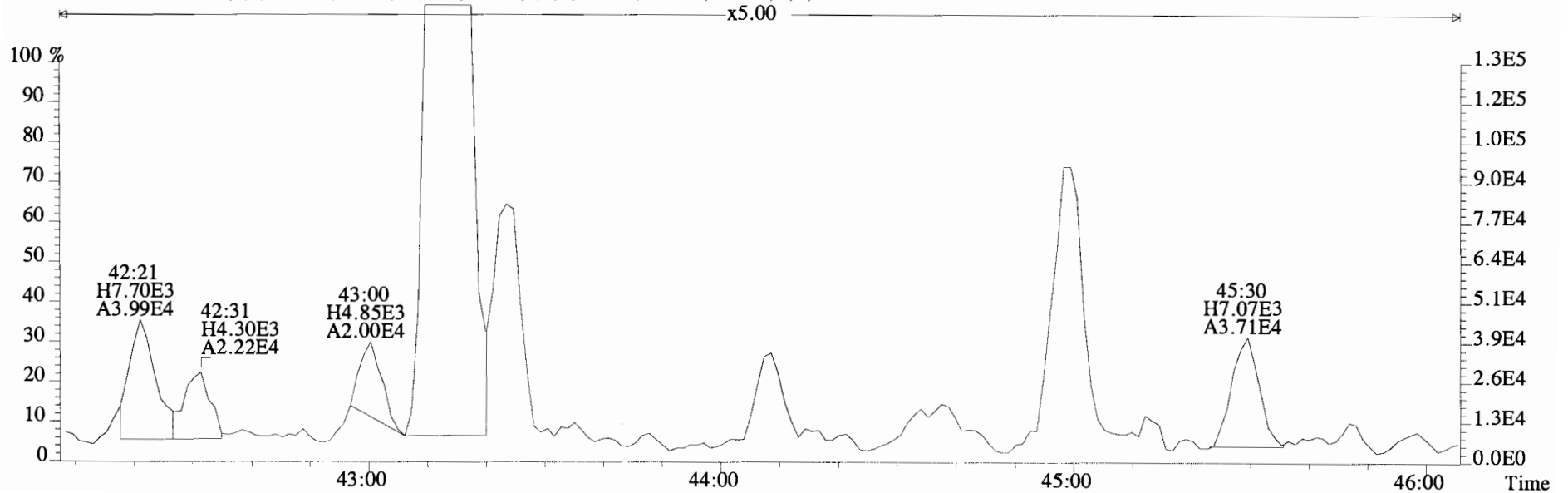
327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



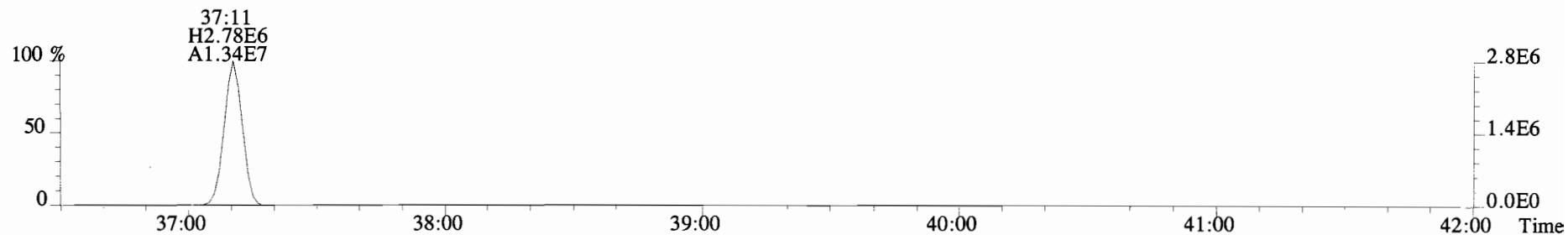
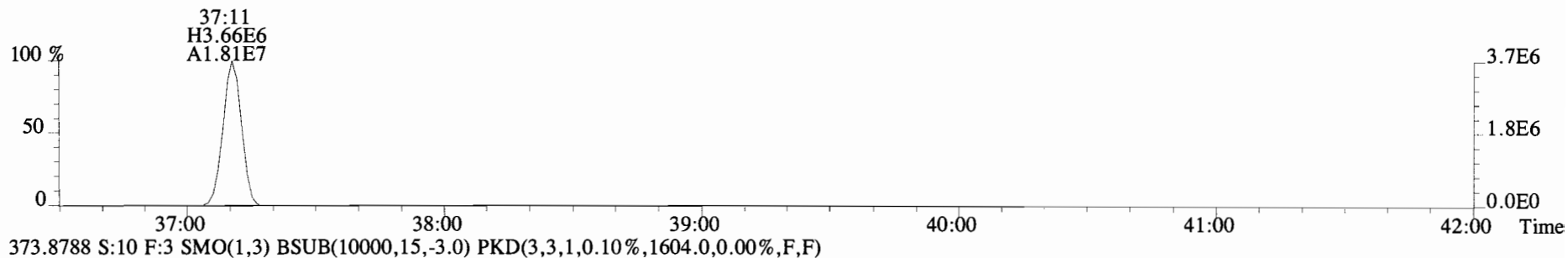
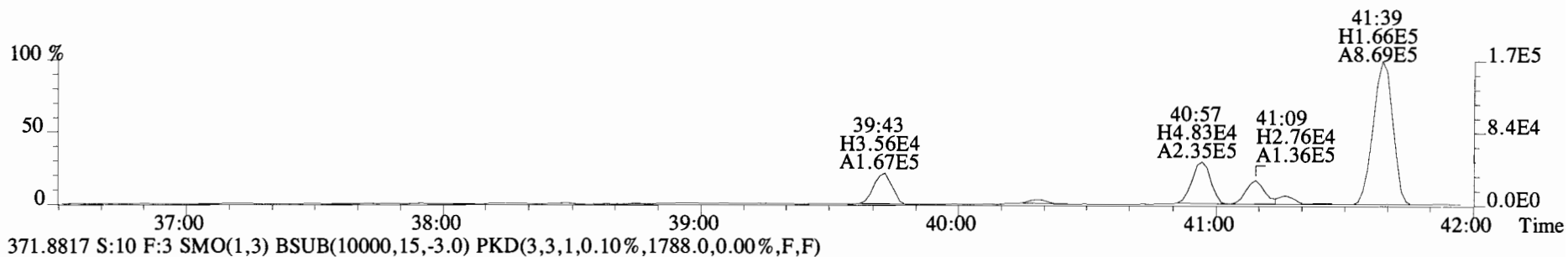
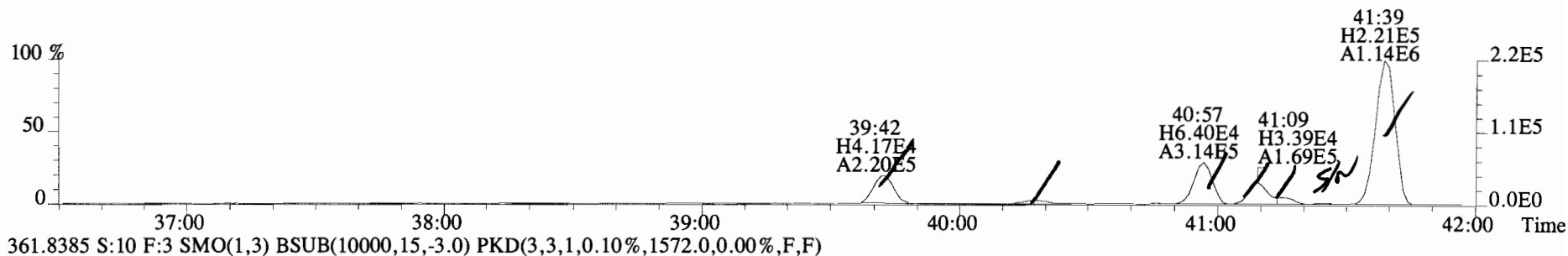
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3792.0,0.00%,F,F)



327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)

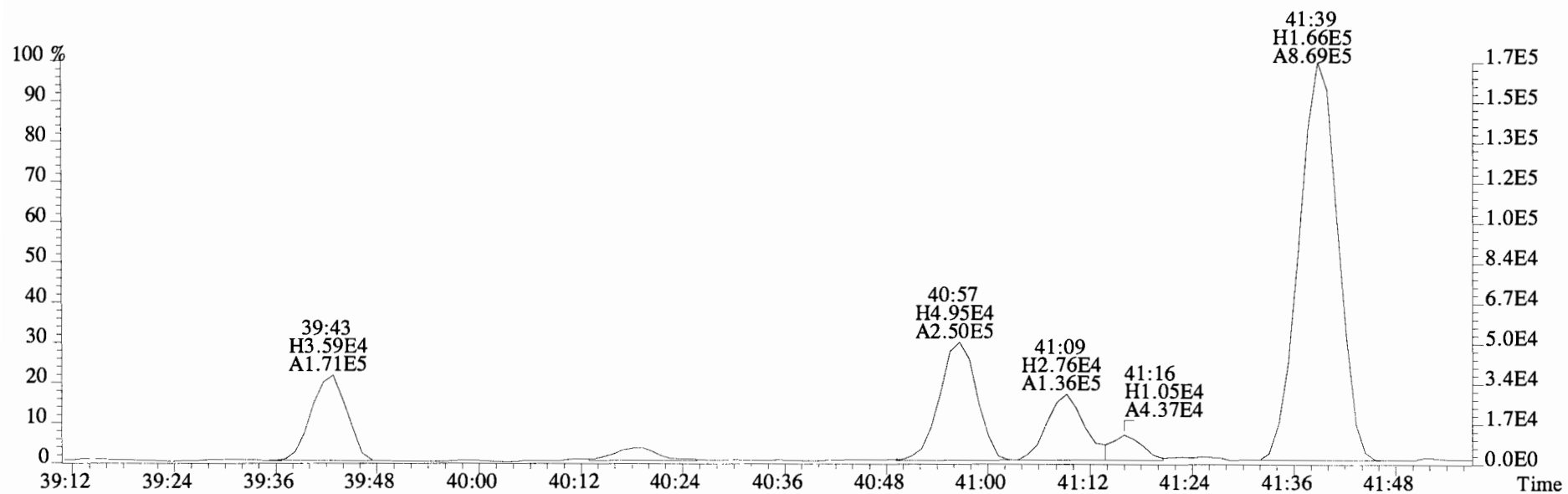
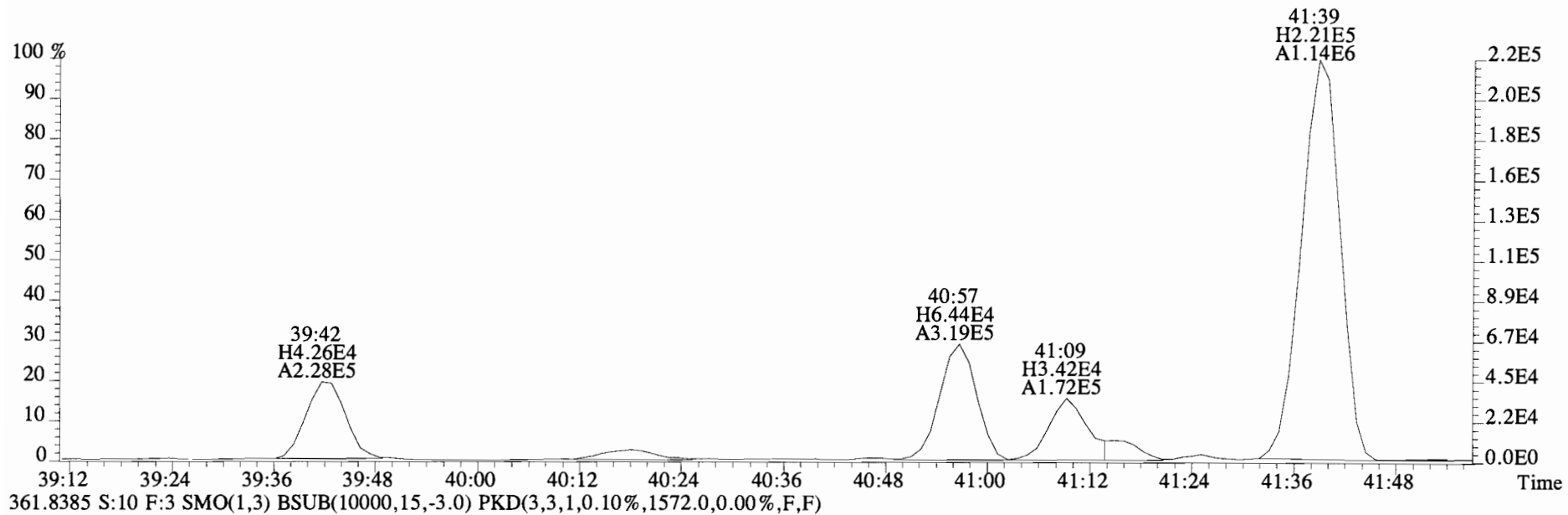


File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)

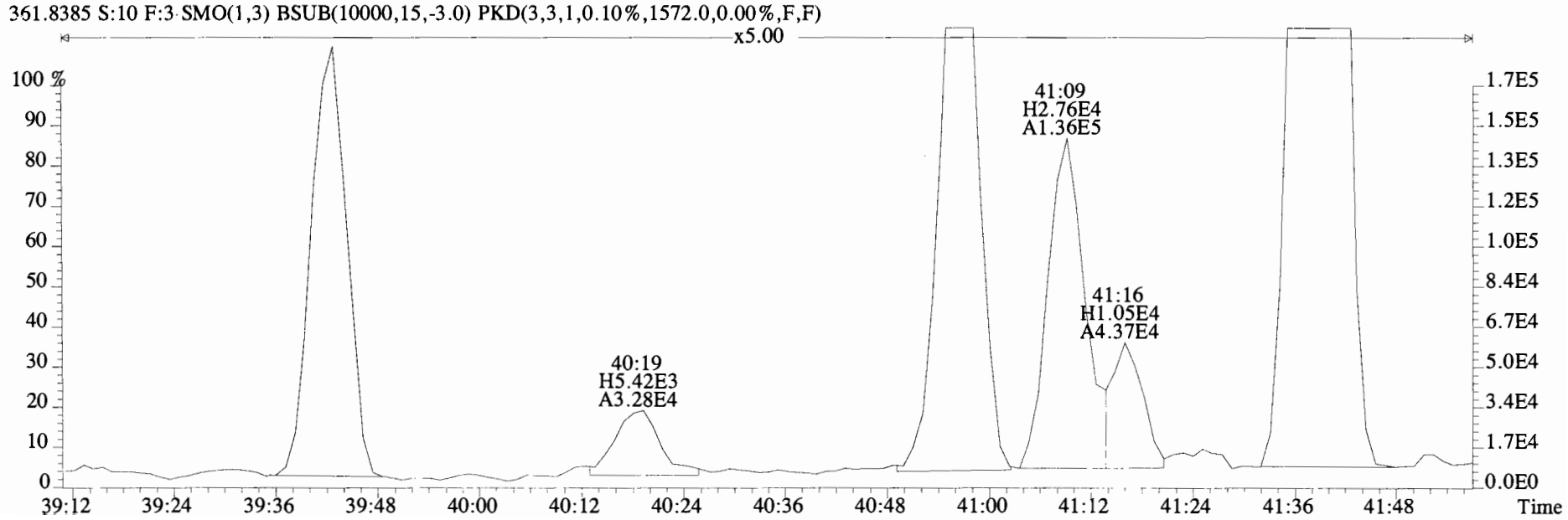
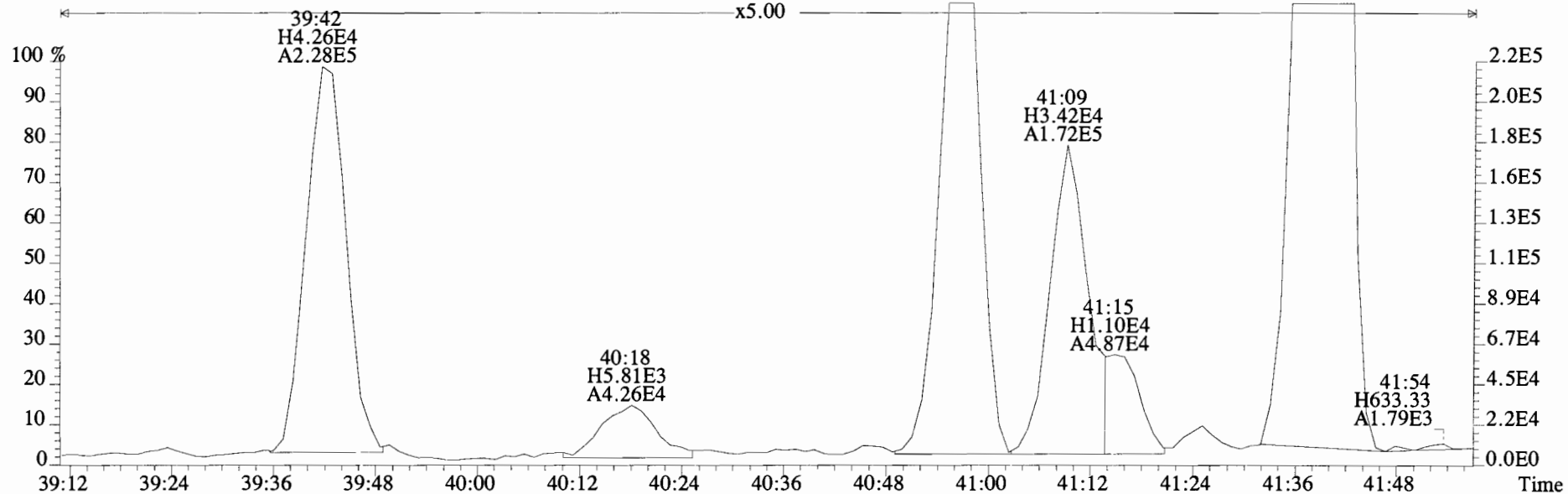




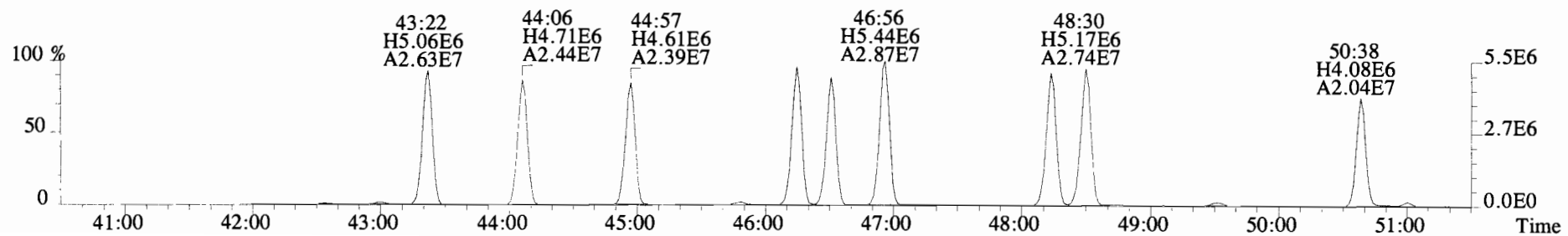
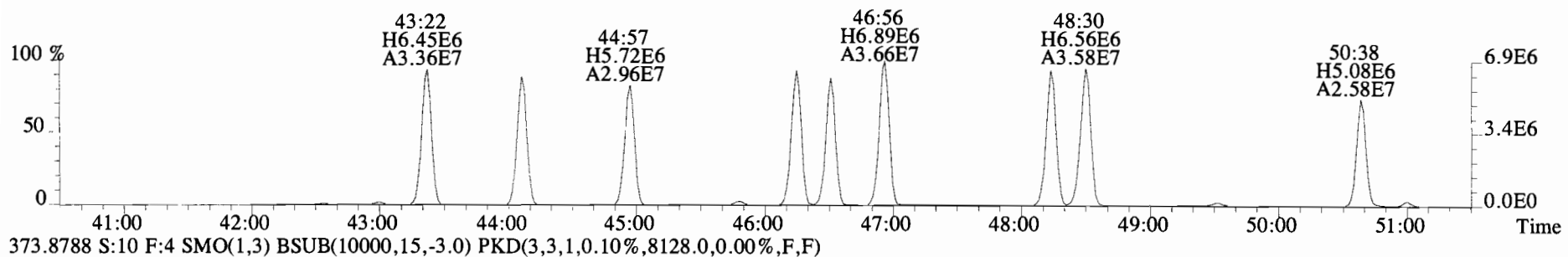
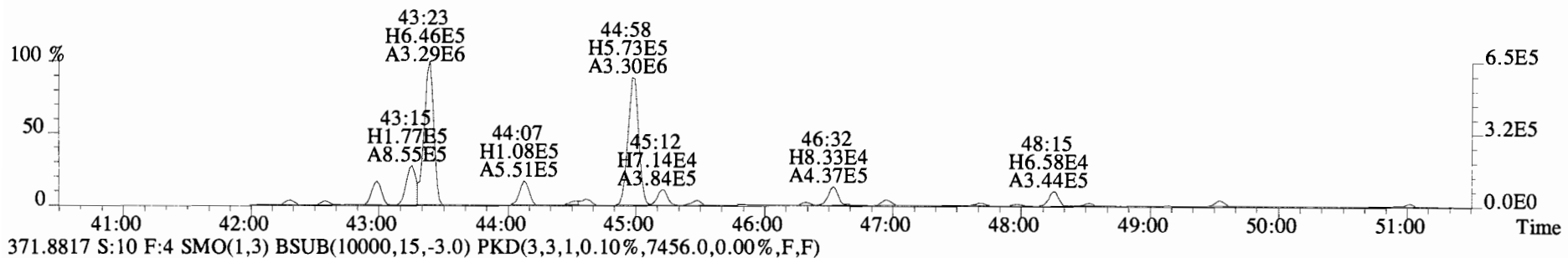
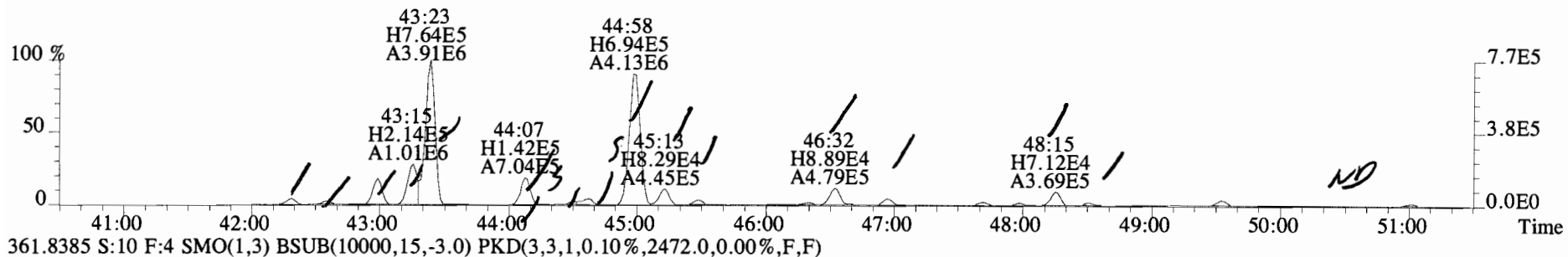
File:140925E1 #1-762 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)



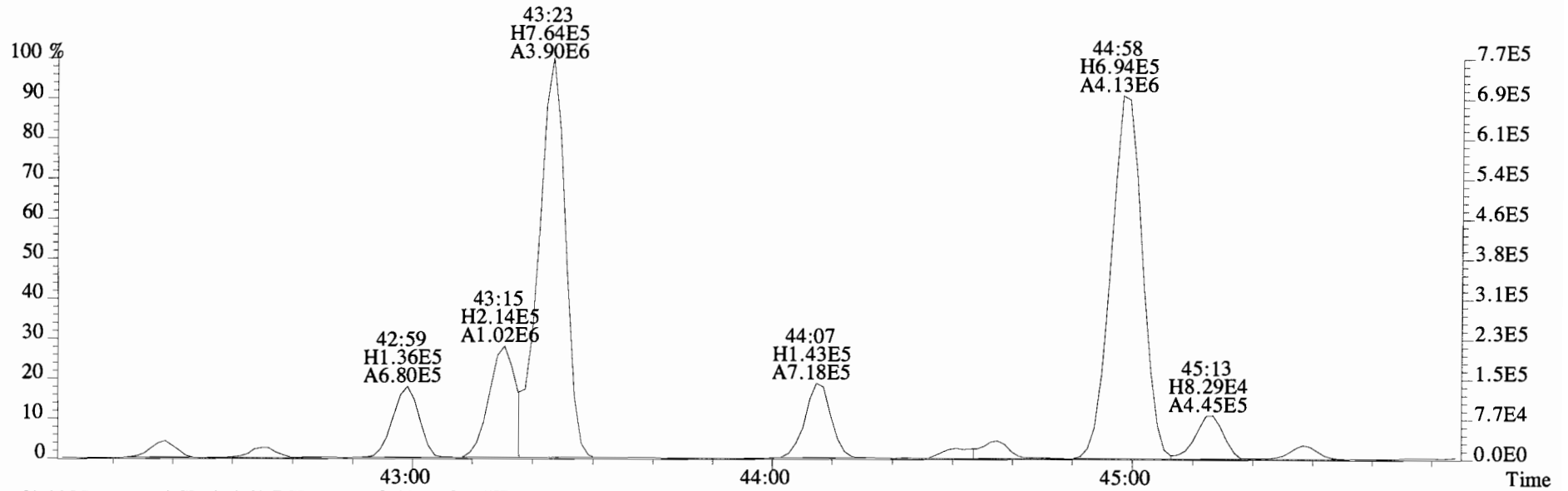
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 359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1476.0,0.00%,F,F)



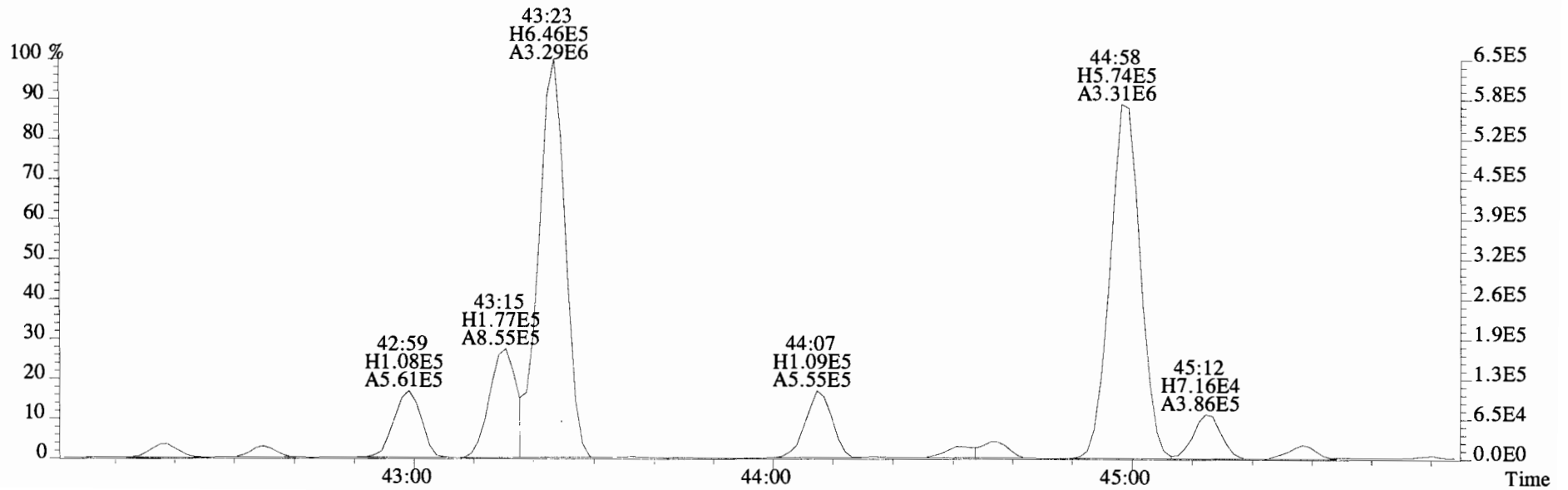
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2688.0,0.00%,F,F)



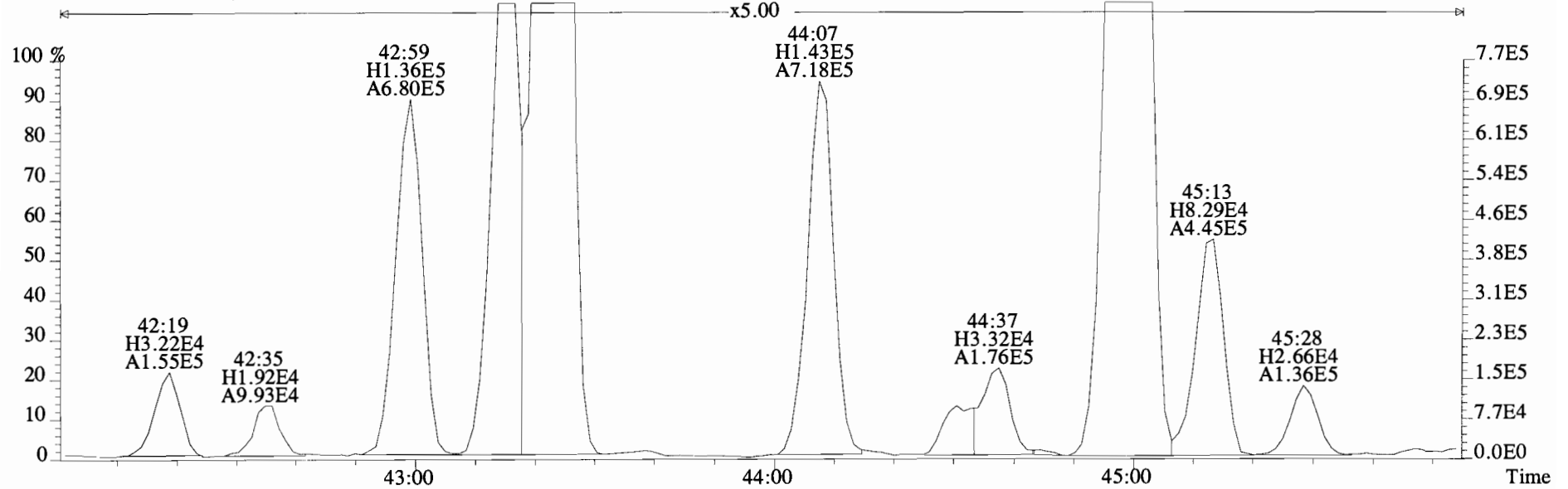
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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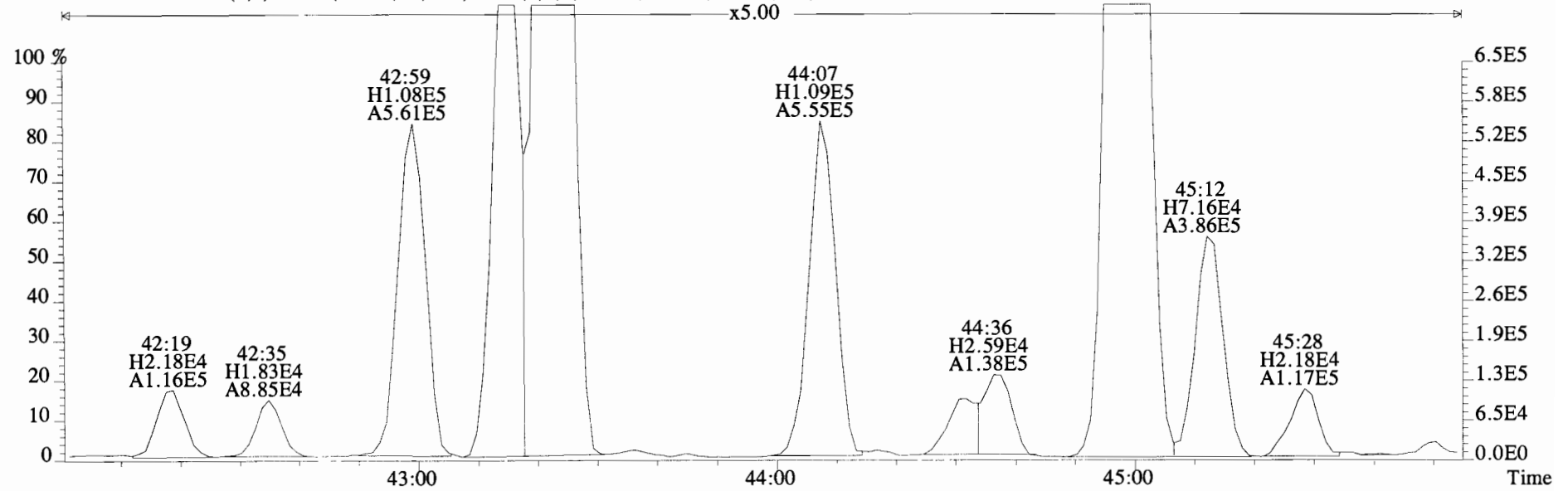
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2472.0,0.00%,F,F)



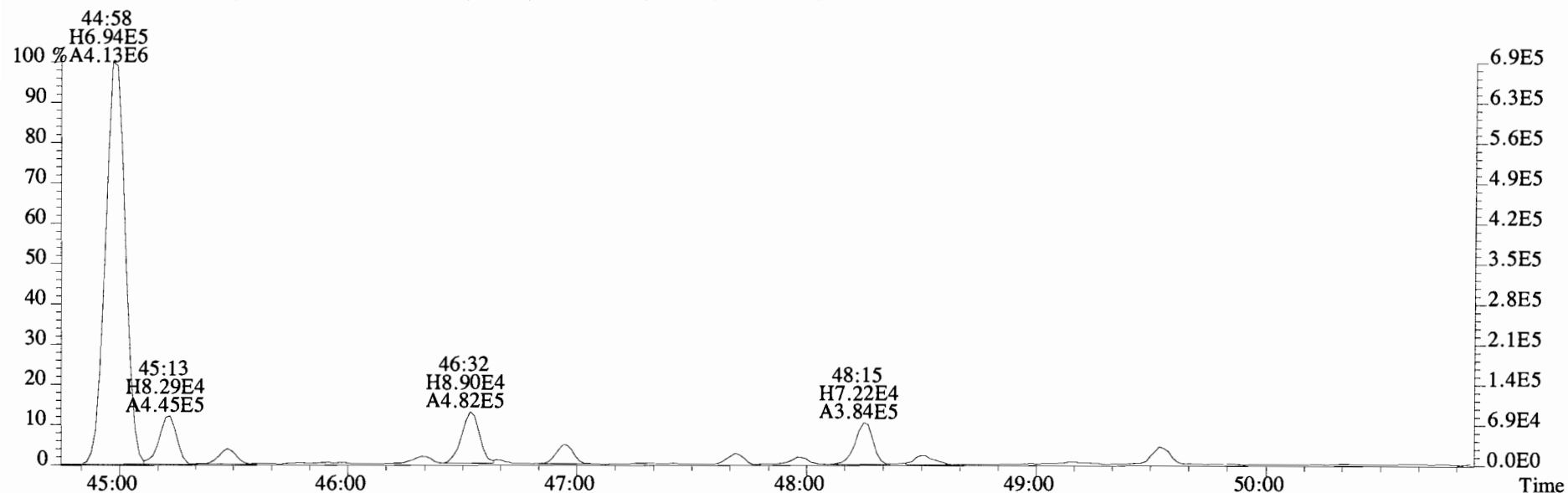
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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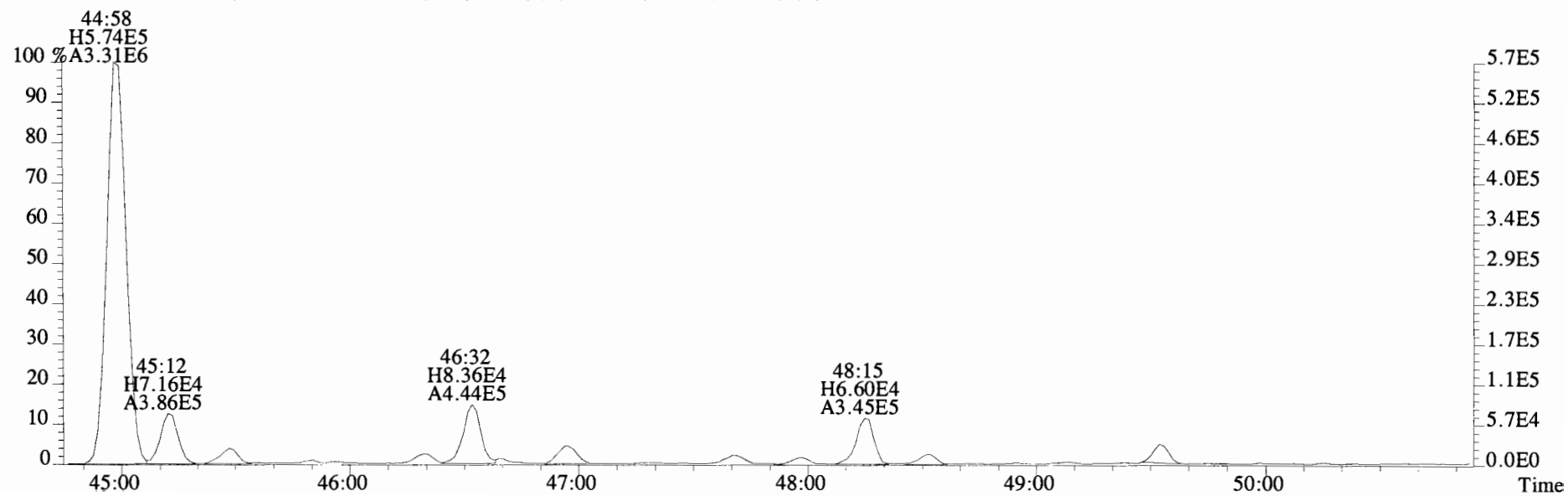
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2472.0,0.00%,F,F)



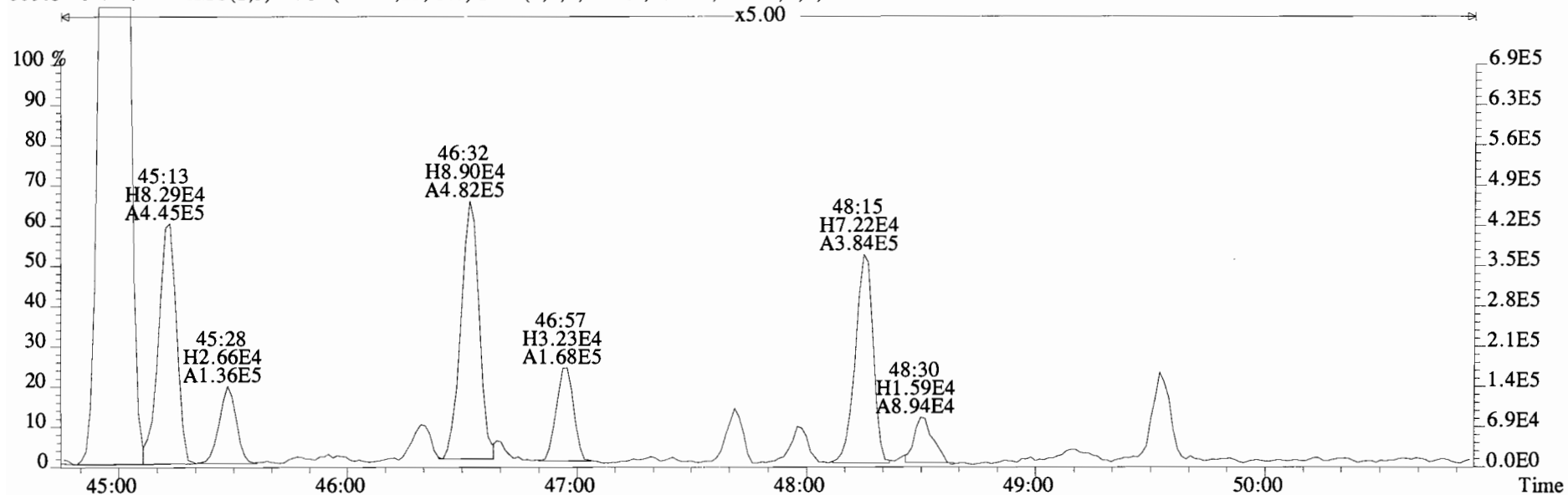
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Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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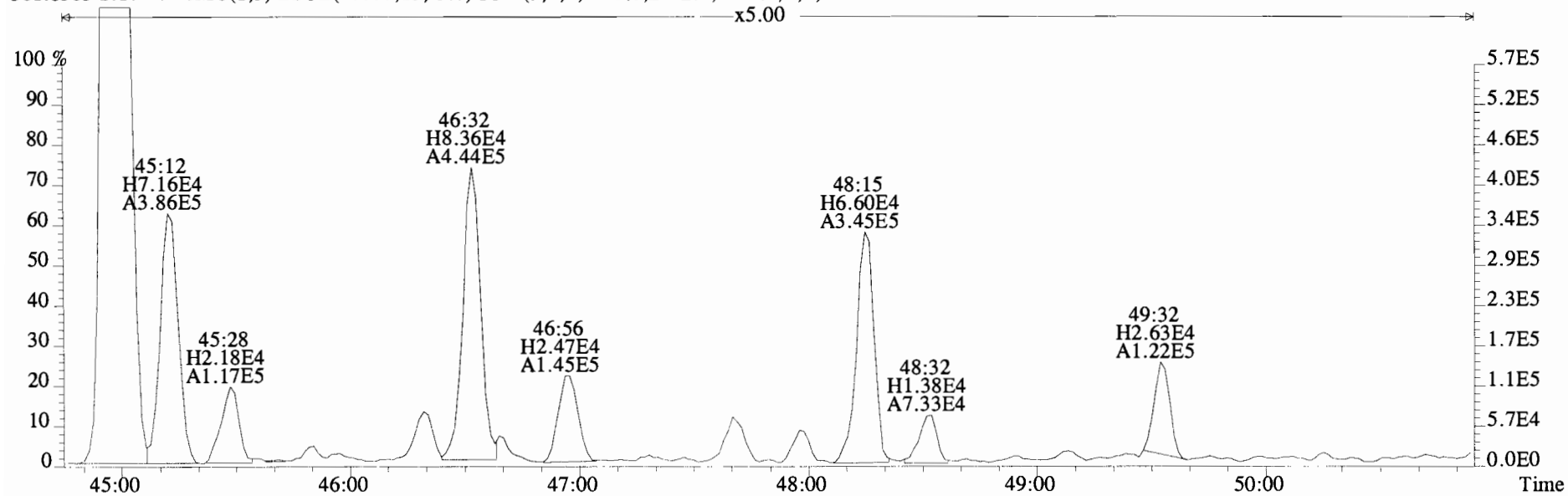
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2472.0,0.00%,F,F)



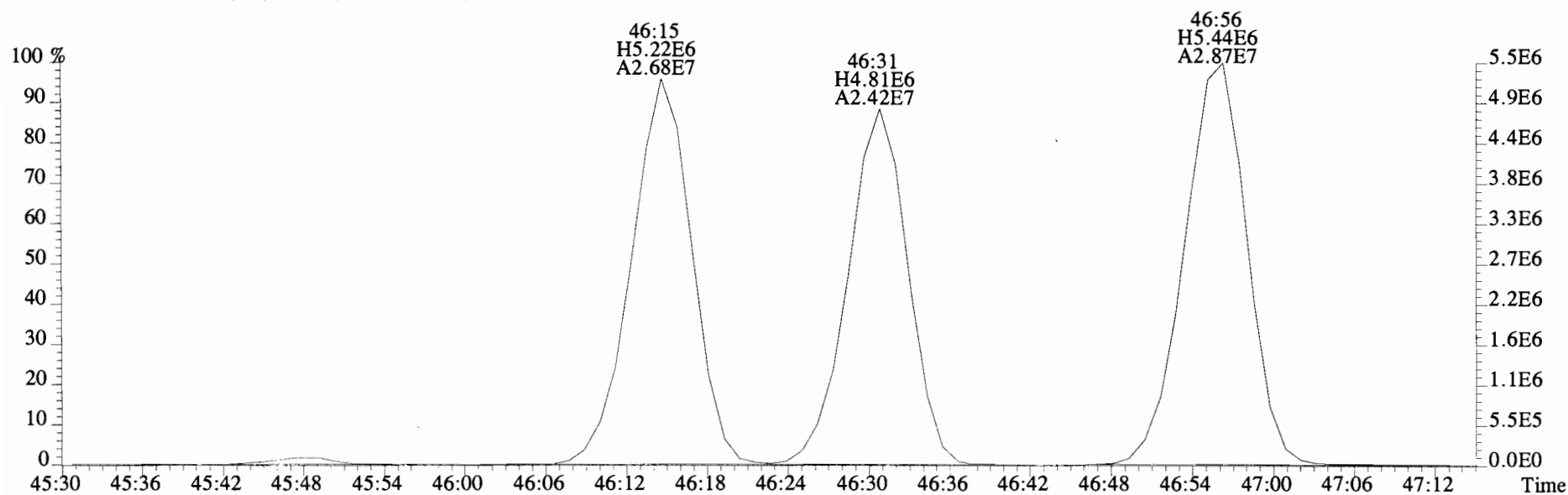
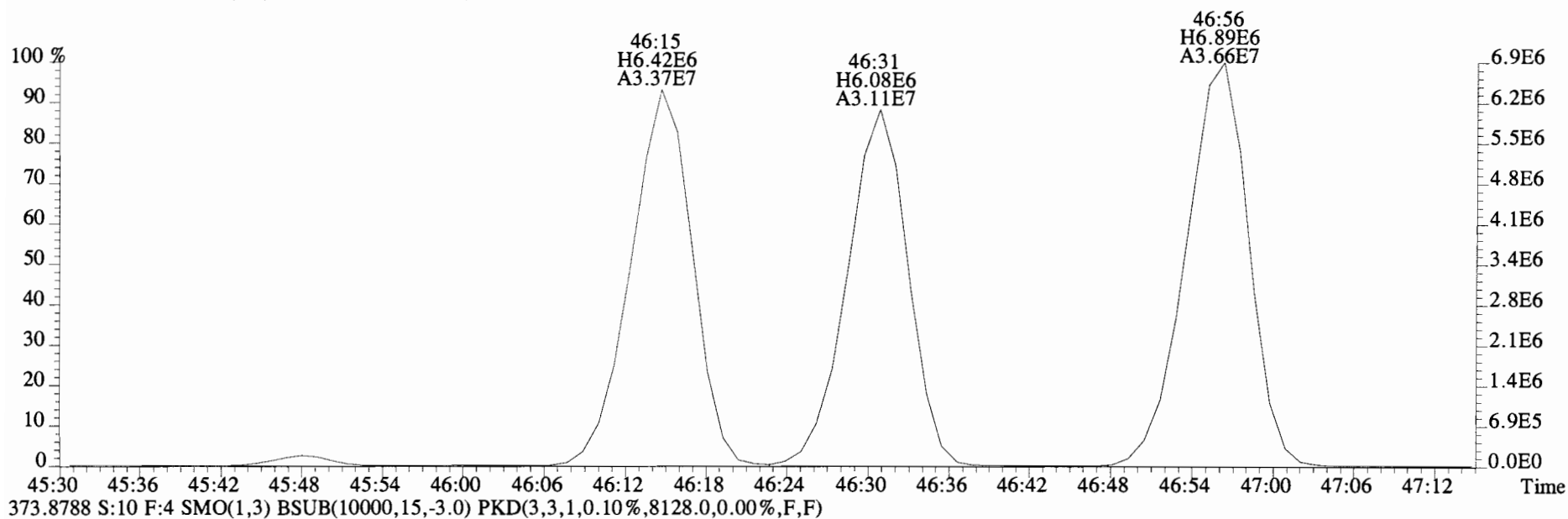
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2688.0,0.00%,F,F)



361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2472.0,0.00%,F,F)

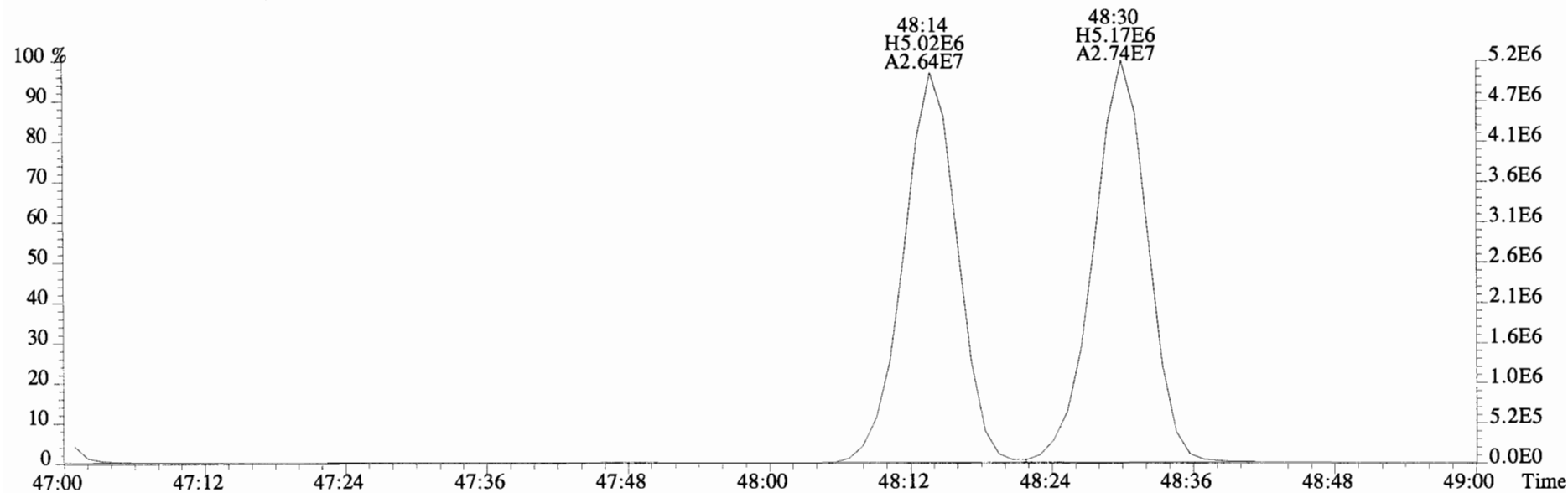
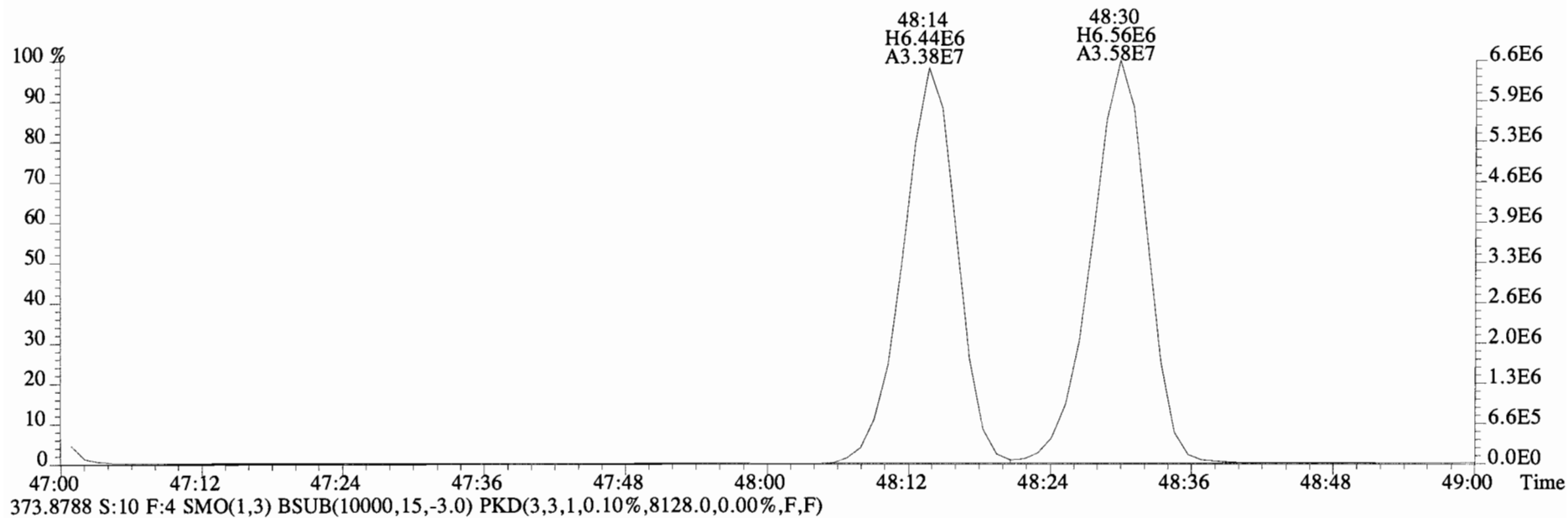


File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7456.0,0.00%,F,F)

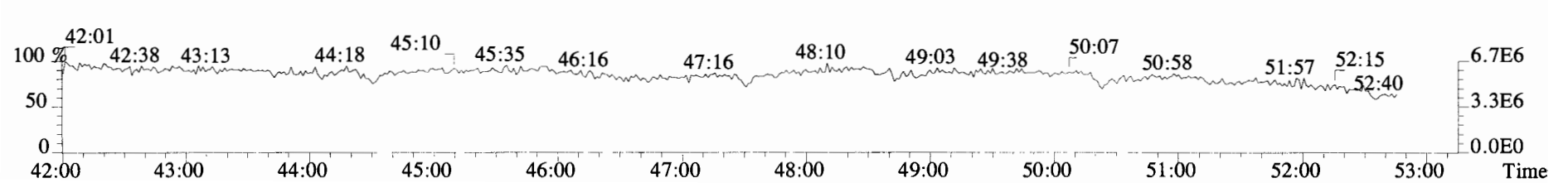
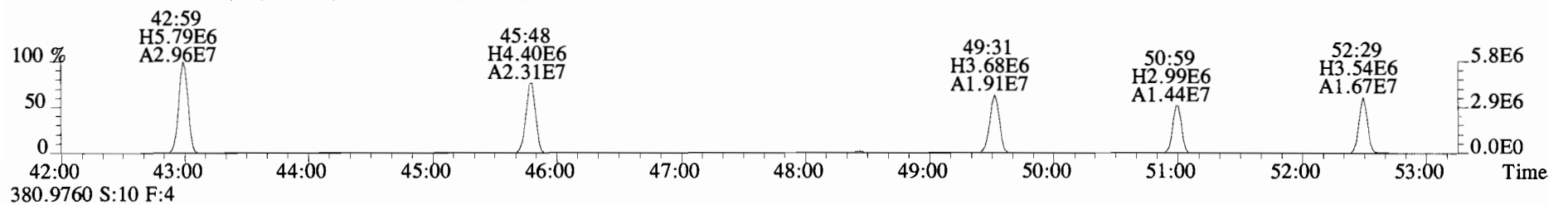
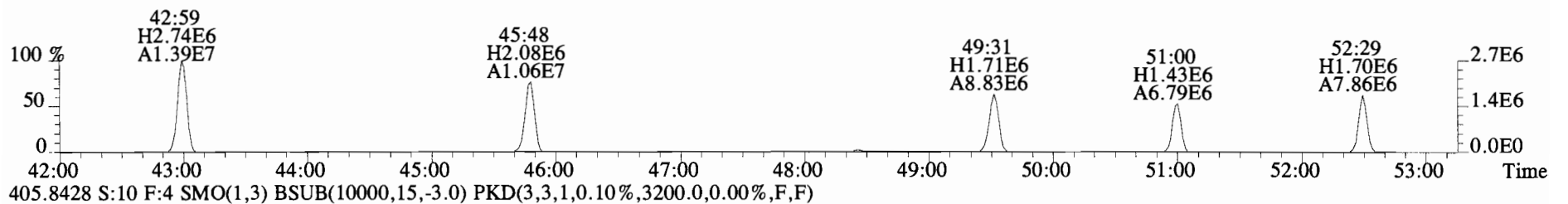
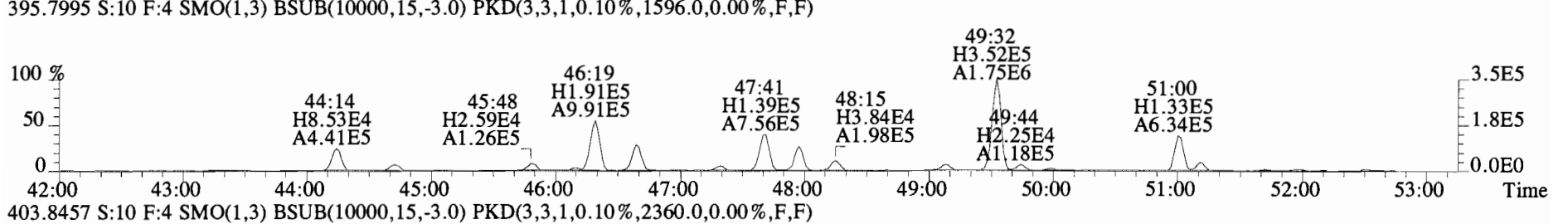
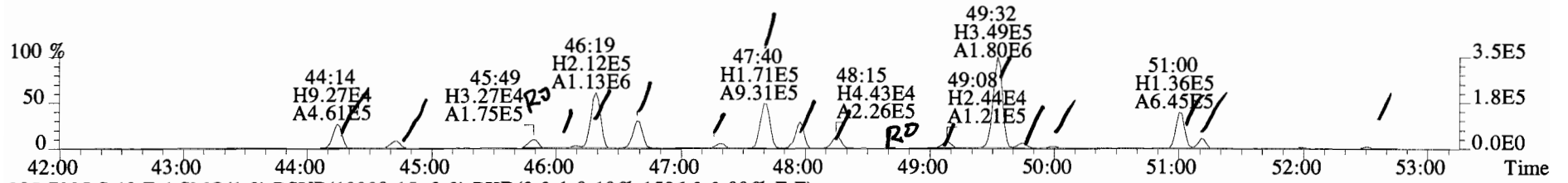




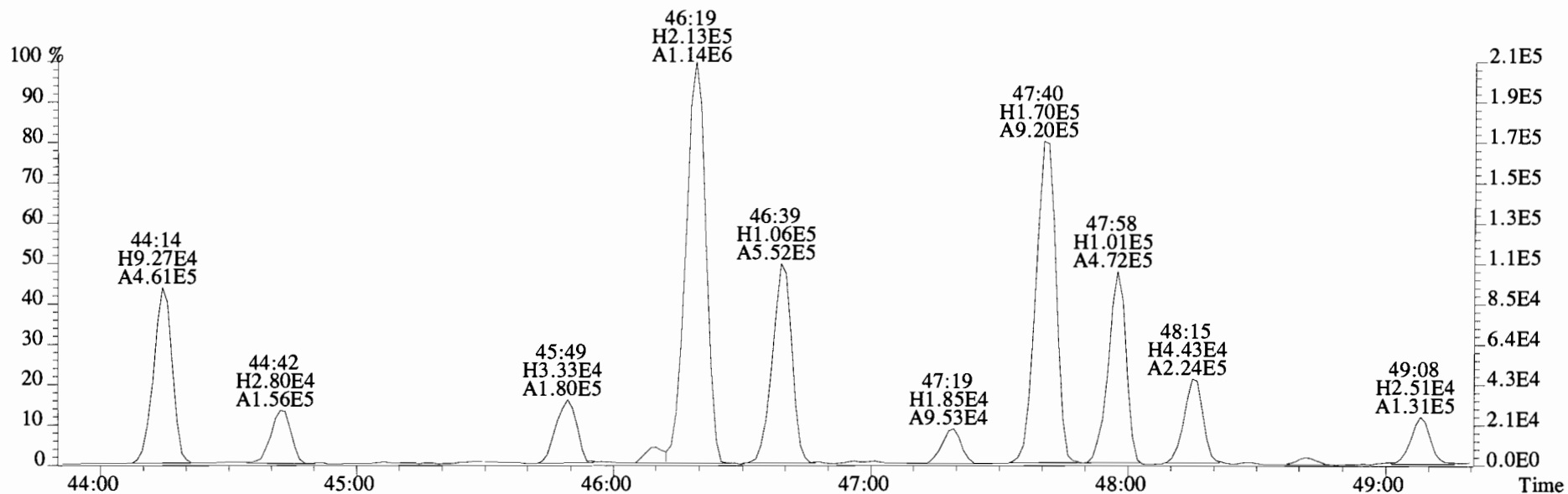
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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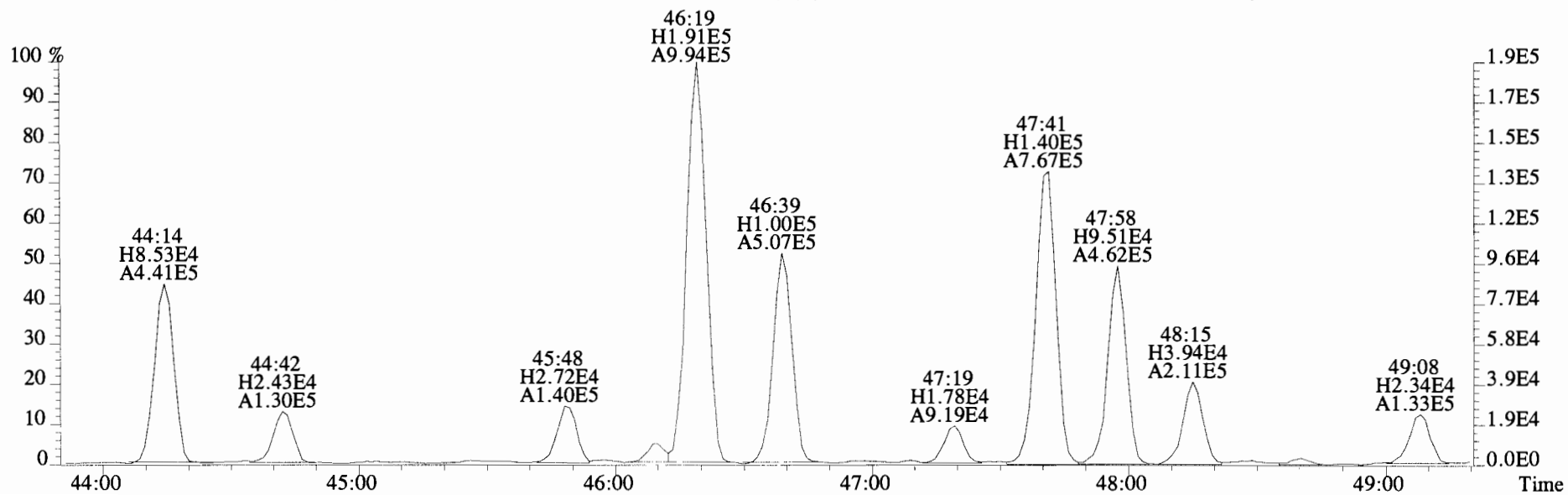
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



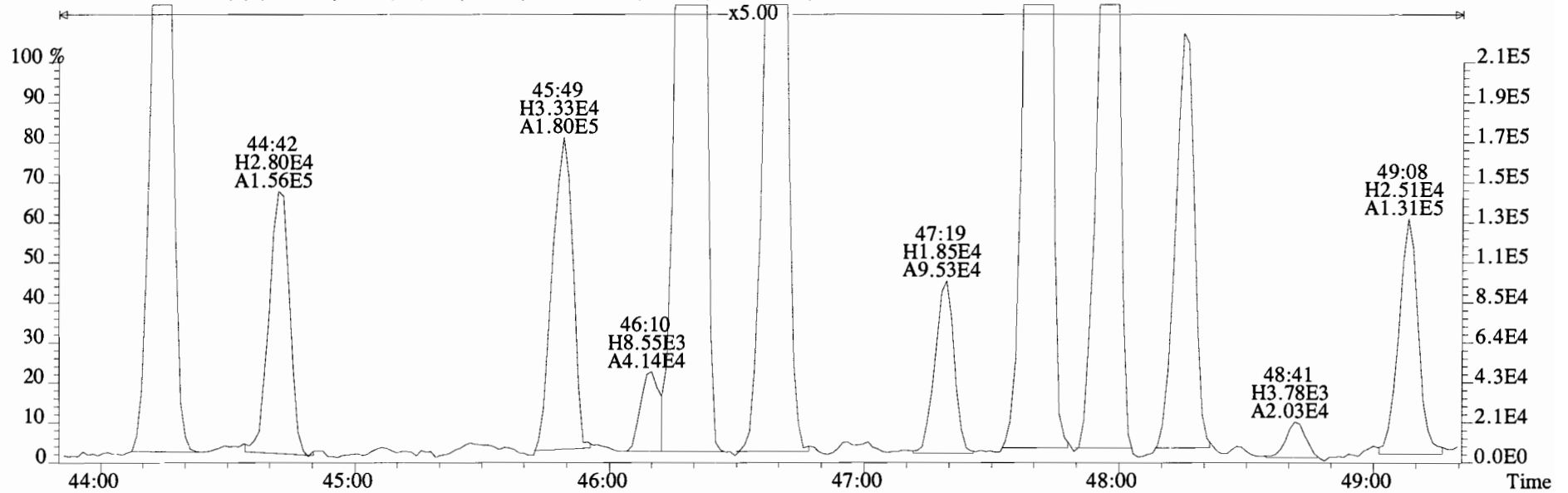
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Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



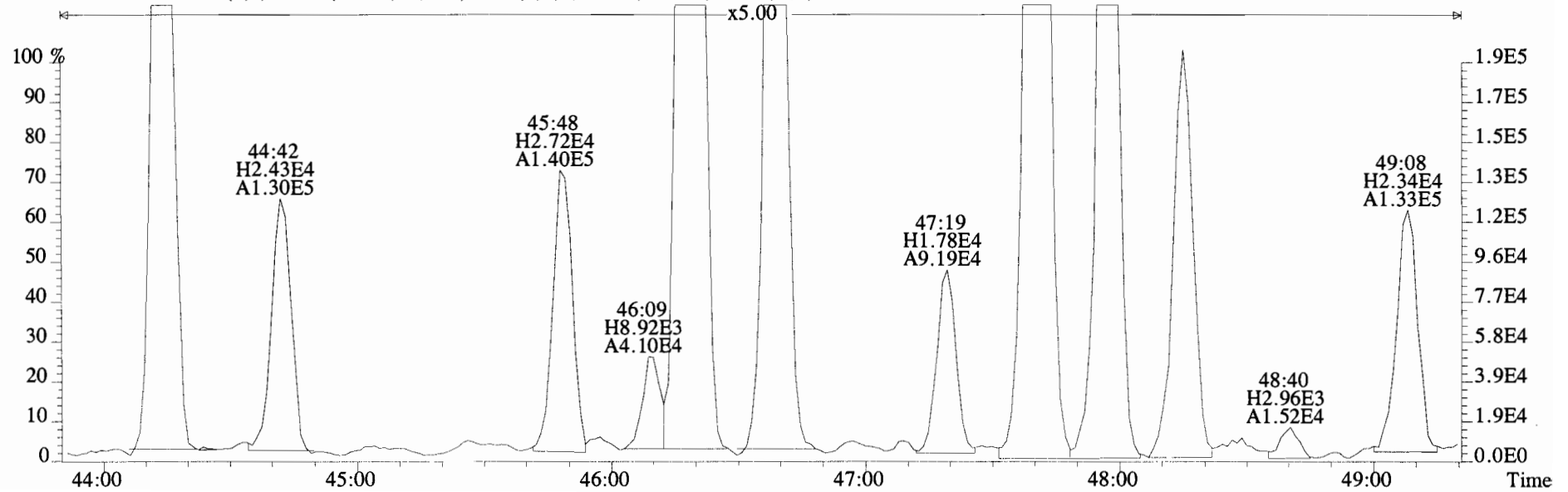
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1596.0,0.00%,F,F)



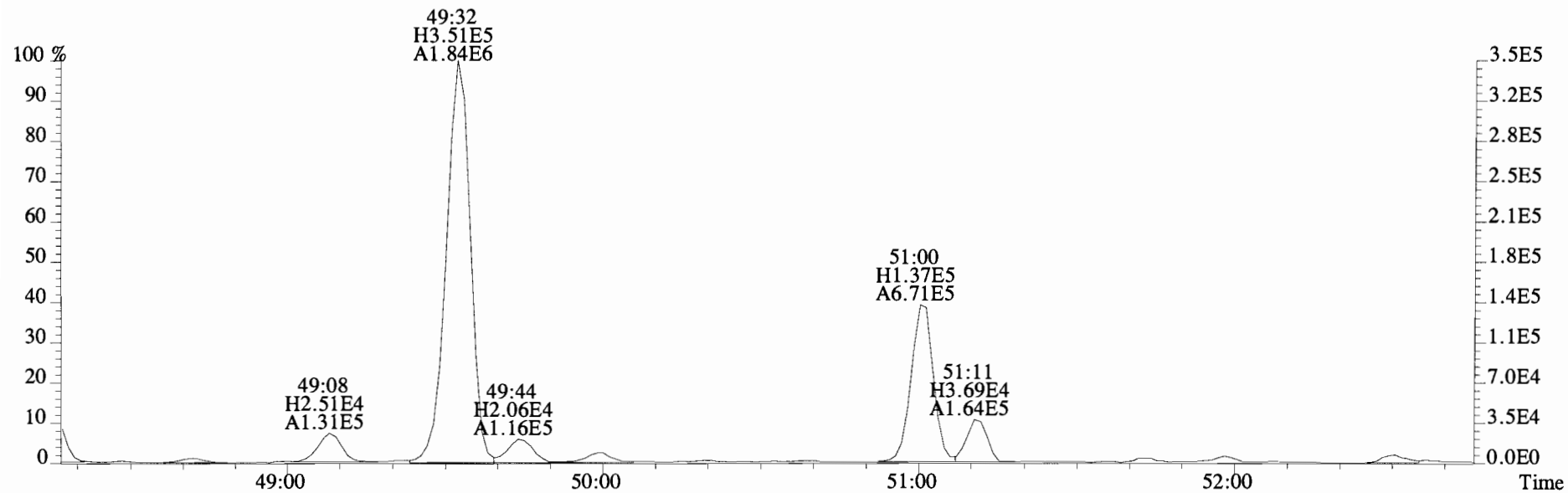
File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



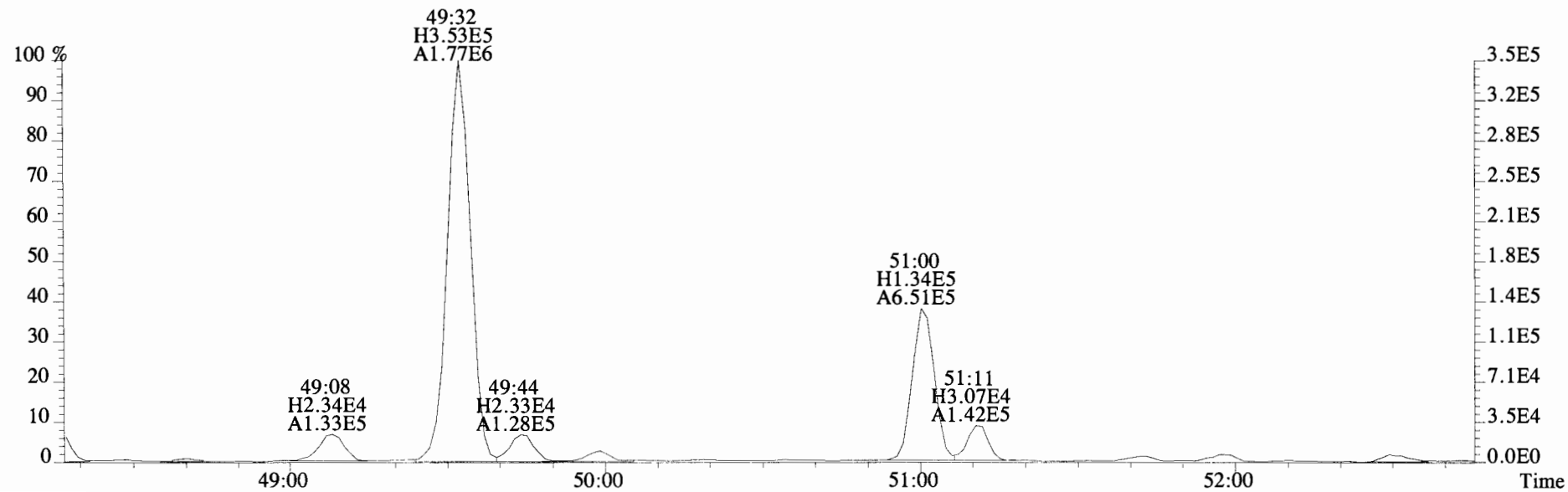
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1596.0,0.00%,F,F)



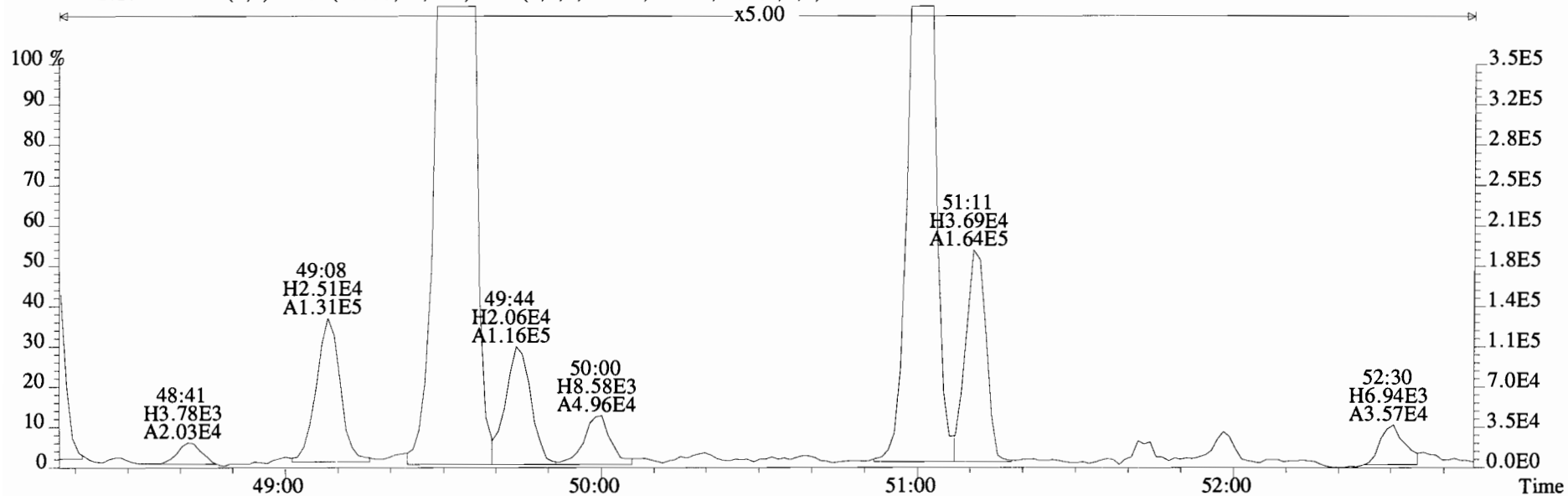
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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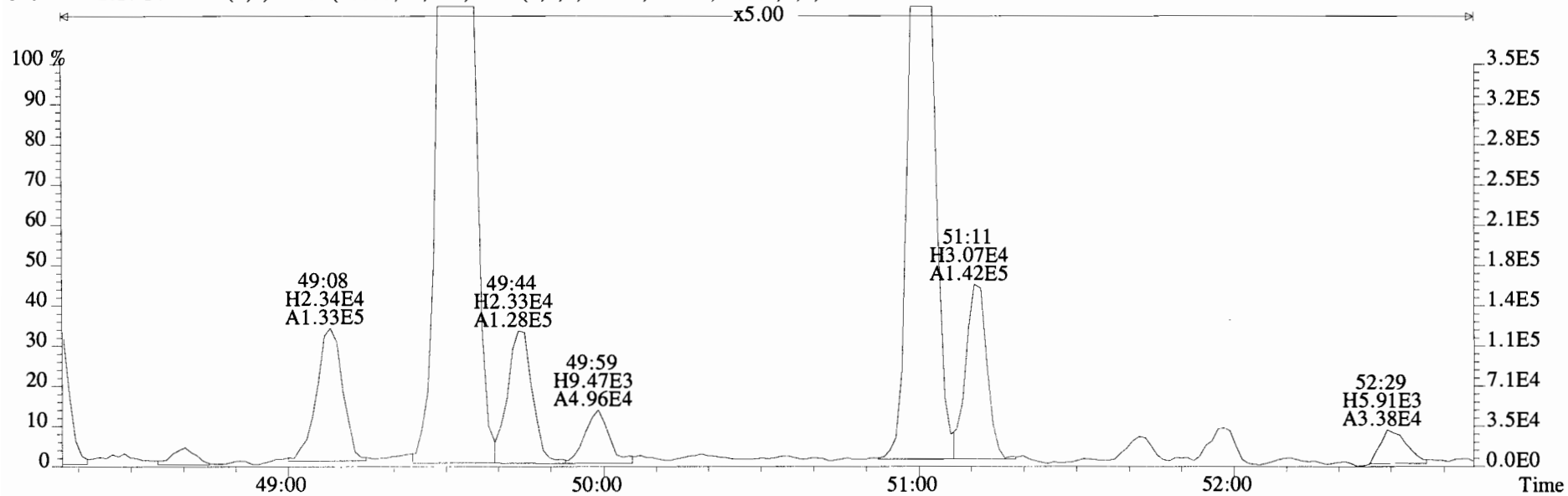
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1596.0,0.00%,F,F)



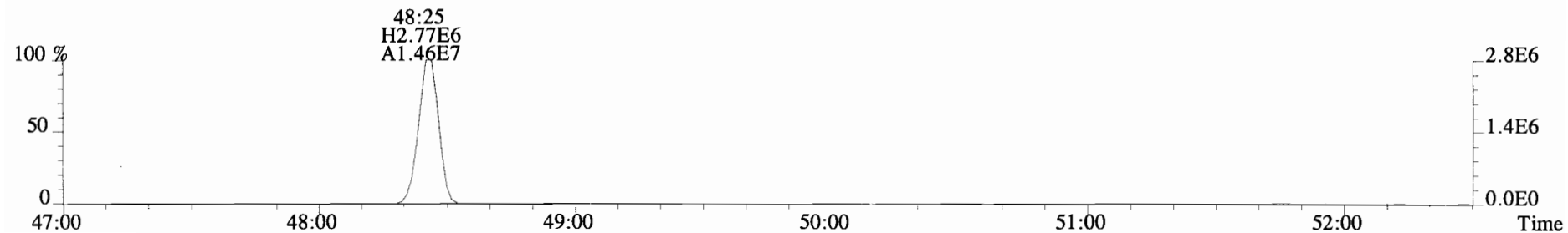
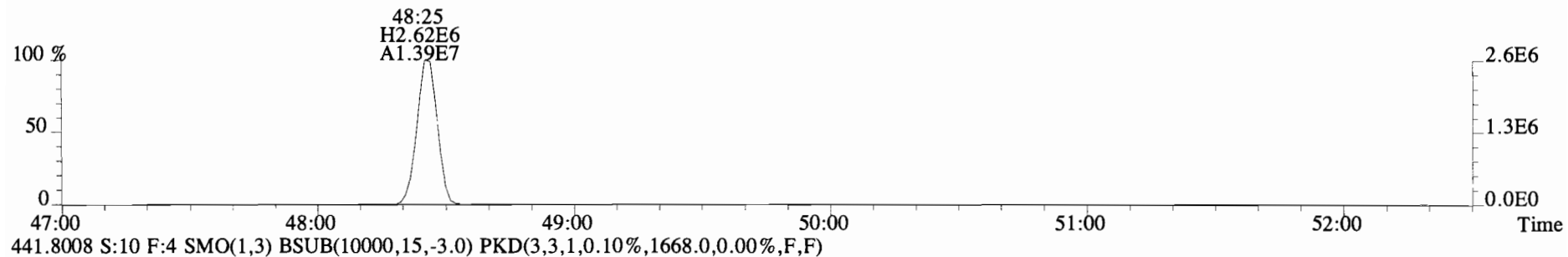
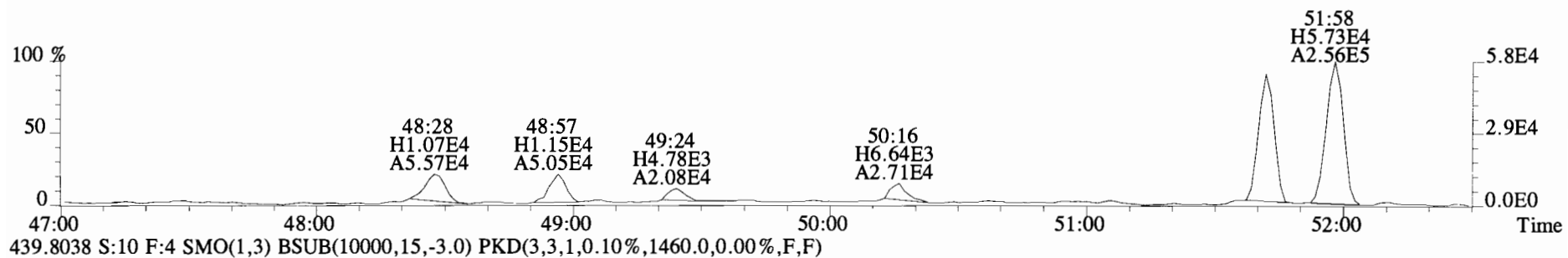
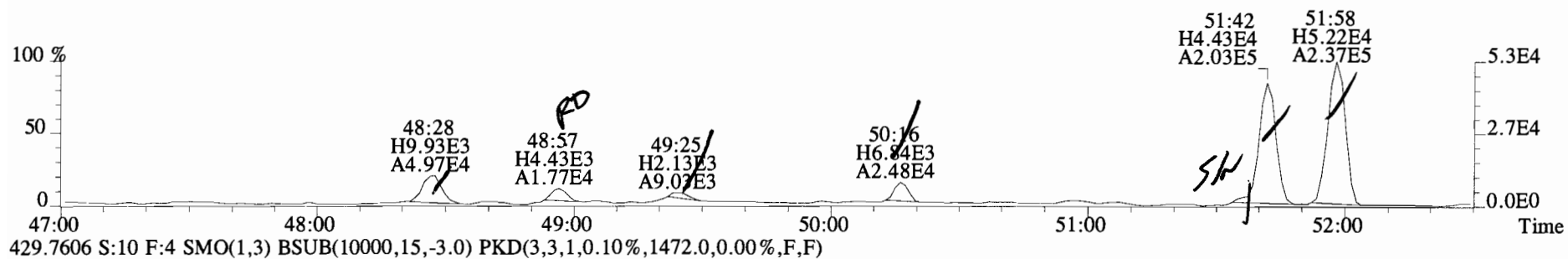
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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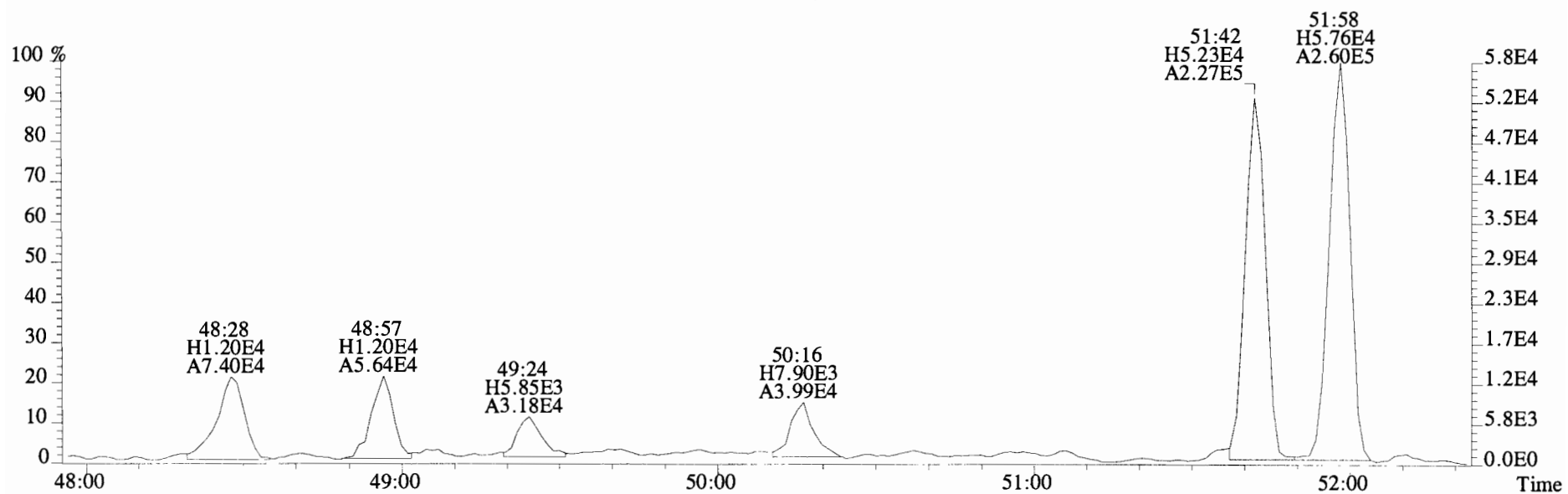
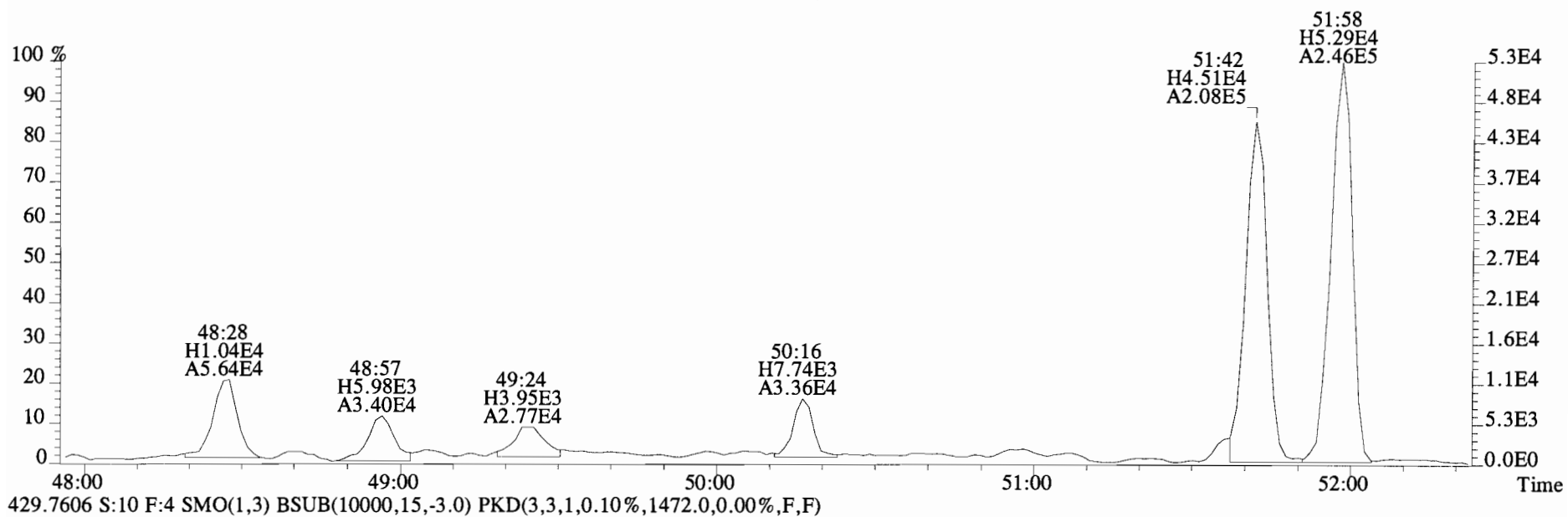
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1596.0,0.00%,F,F)



File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1416.0,0.00%,F,F)

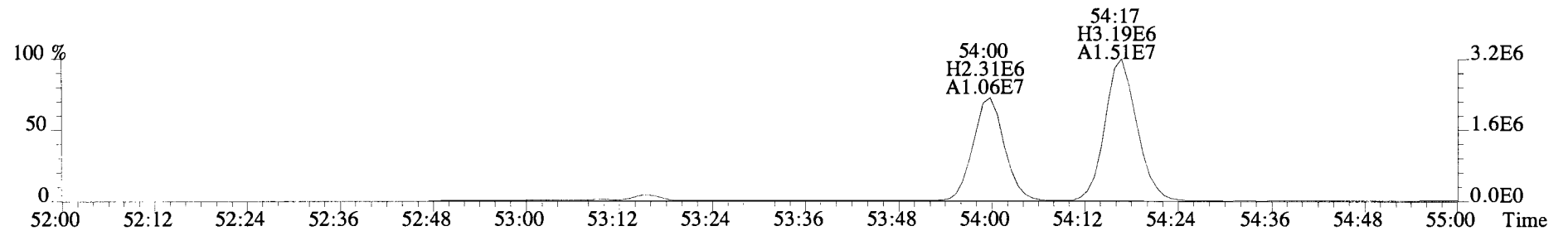
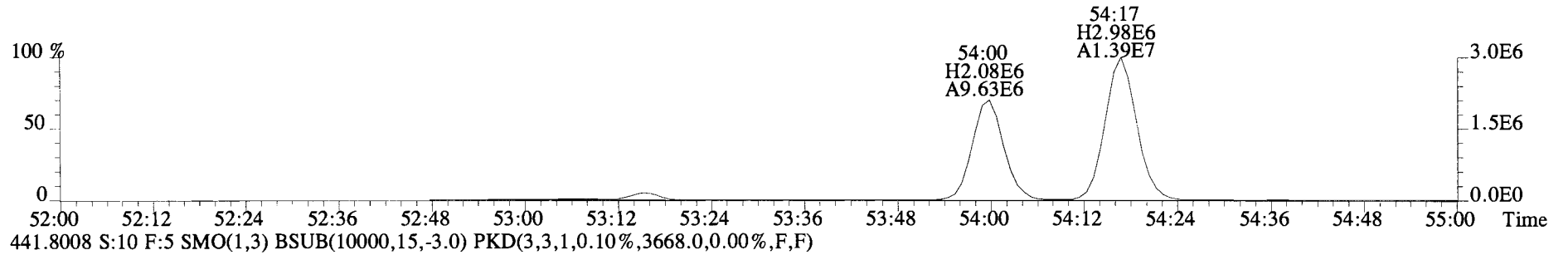
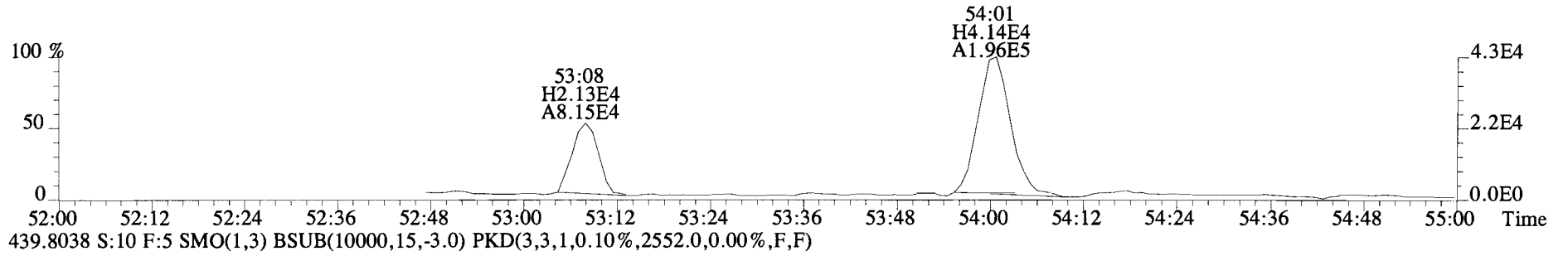
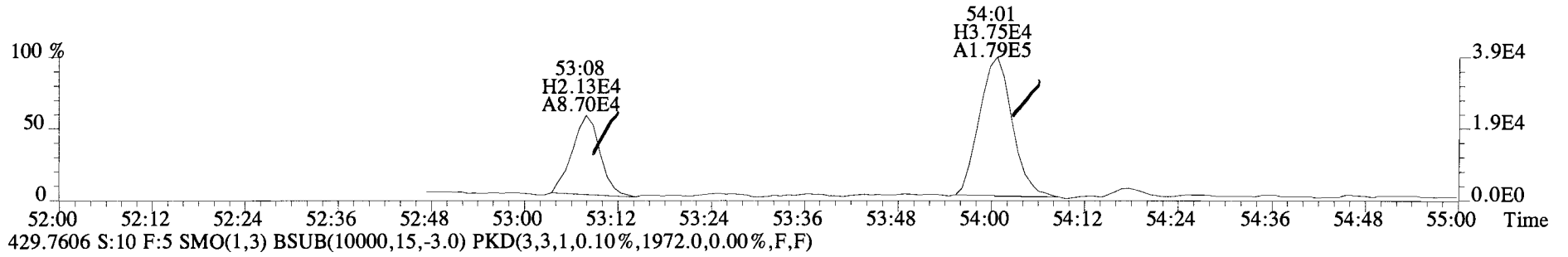


File:140925E1 #1-560 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
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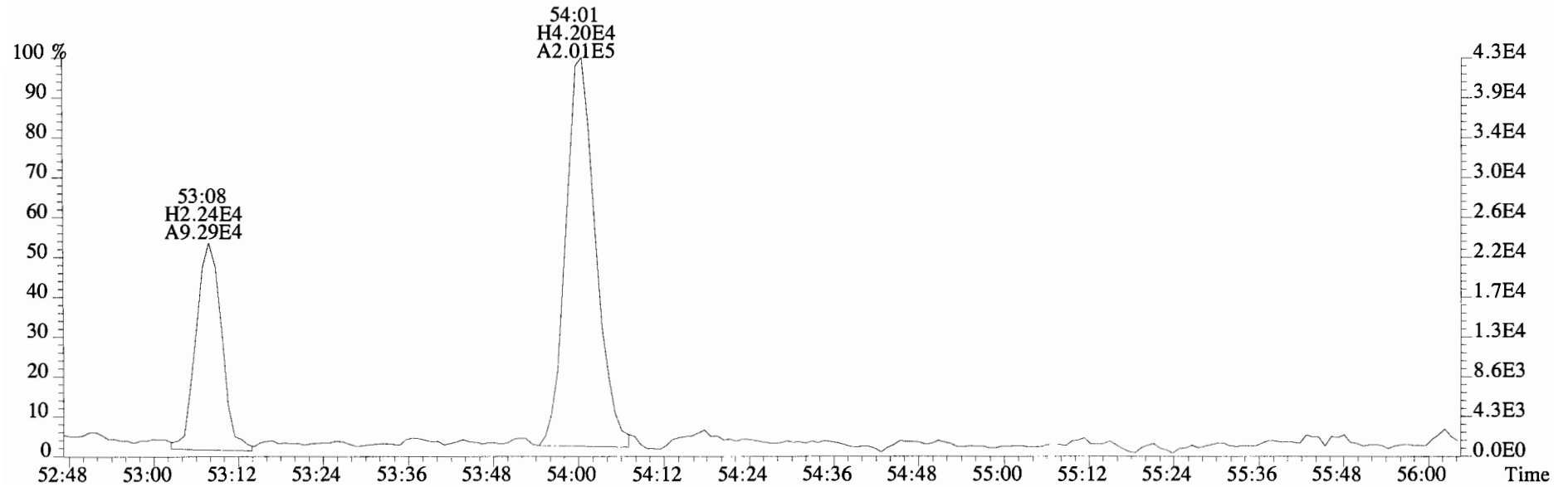
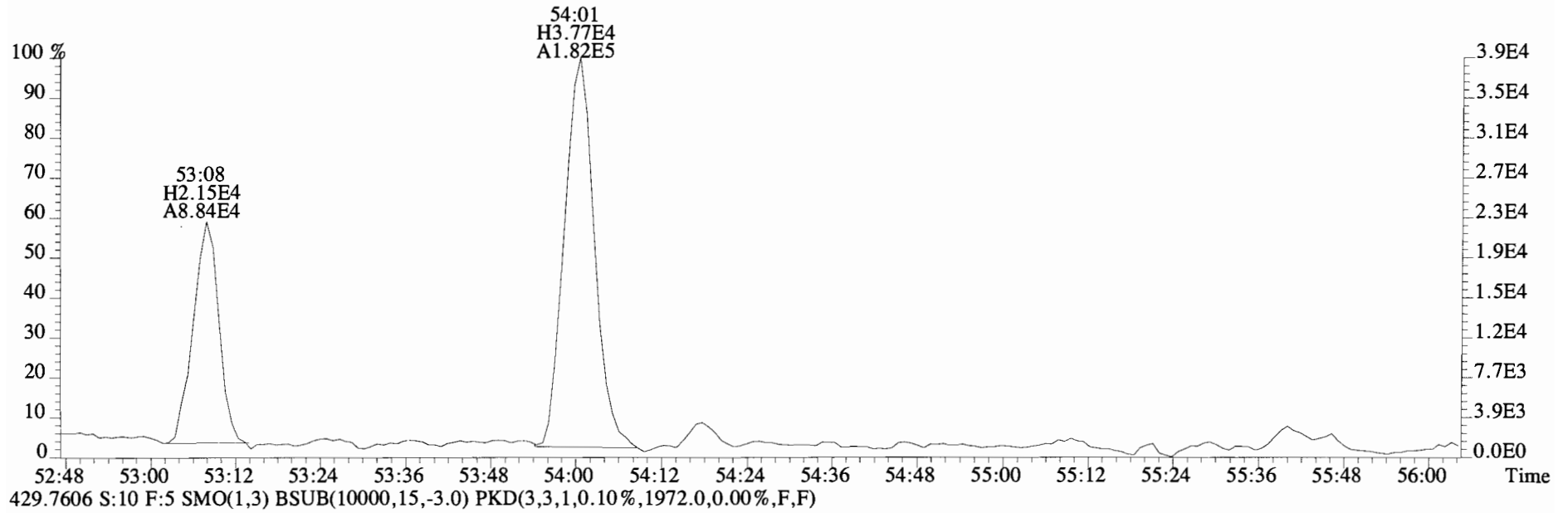




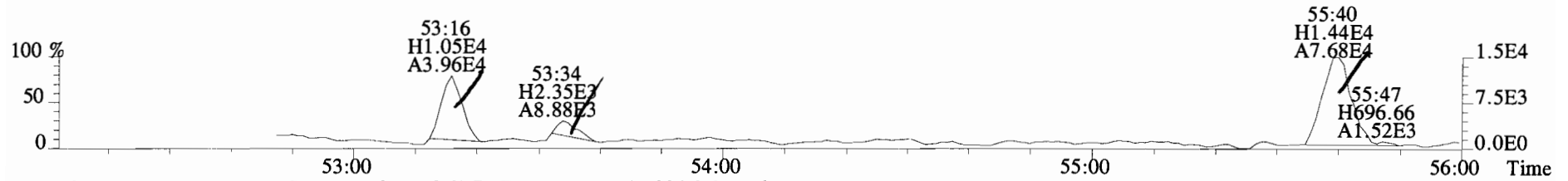
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1700.0,0.00%,F,F)



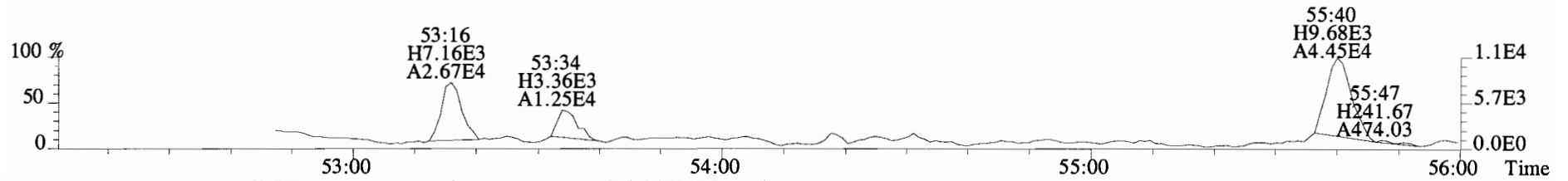
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1700.0,0.00%,F,F)



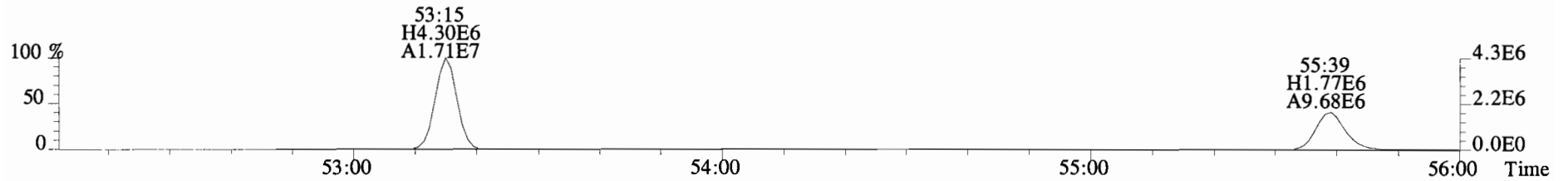
File:140925E1 #1-418 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
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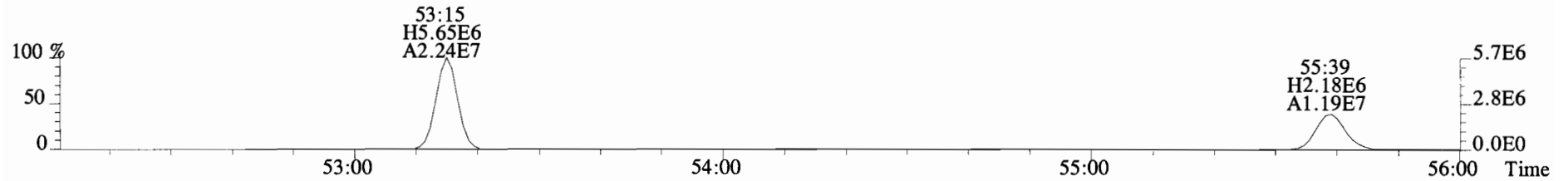
465.7186 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1284.0,0.00%,F,F)



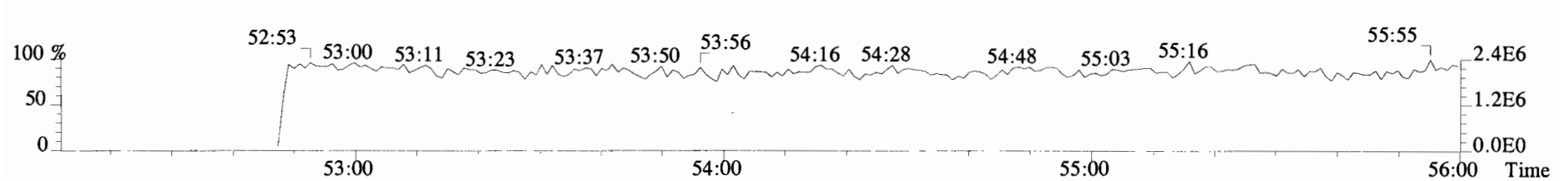
473.7648 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3460.0,0.00%,F,F)



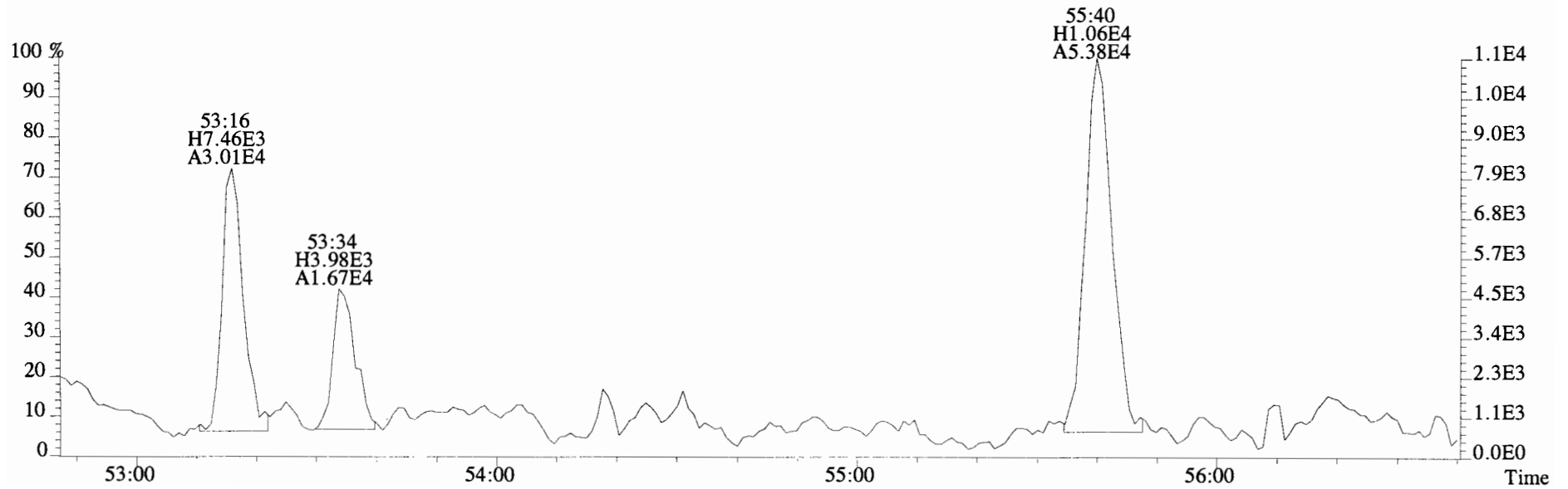
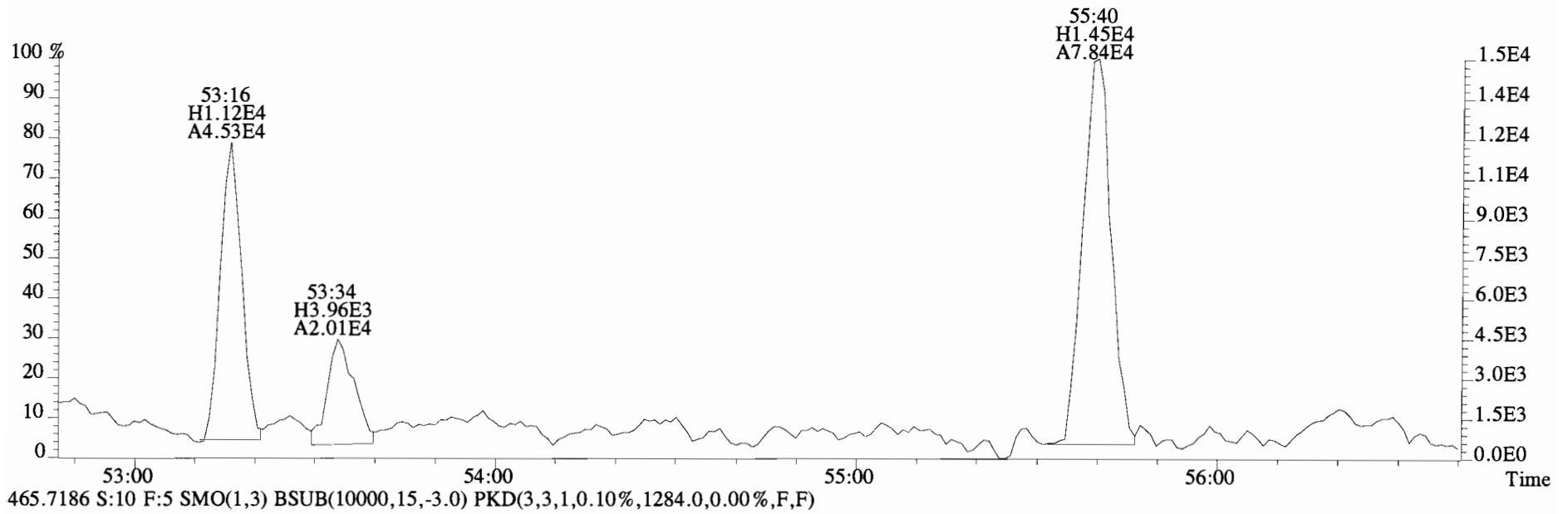
475.7619 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5300.0,0.00%,F,F)



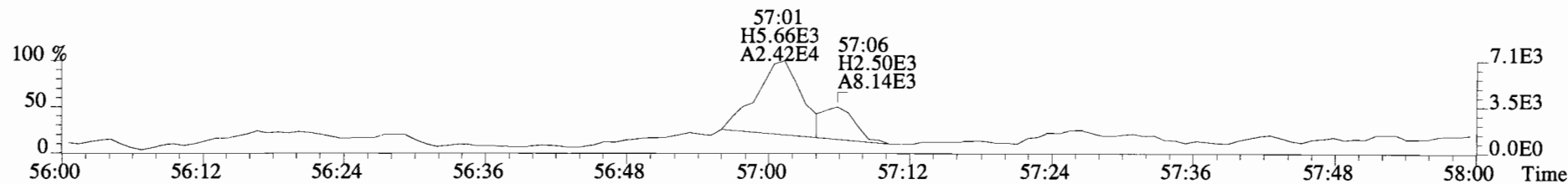
492.9697 S:10 F:5



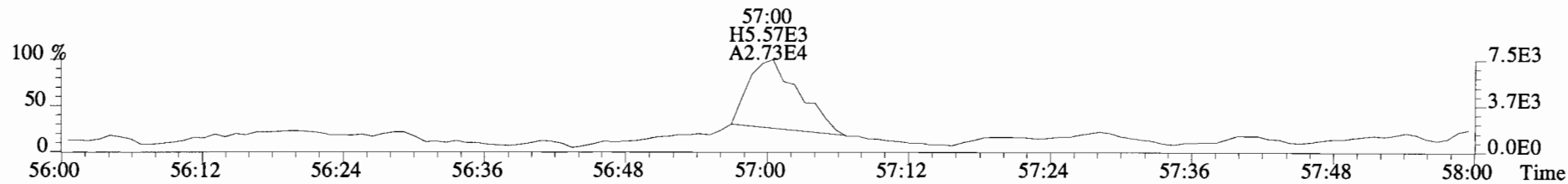
File:140925E1 #1-418 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1412.0,0.00%,F,F)



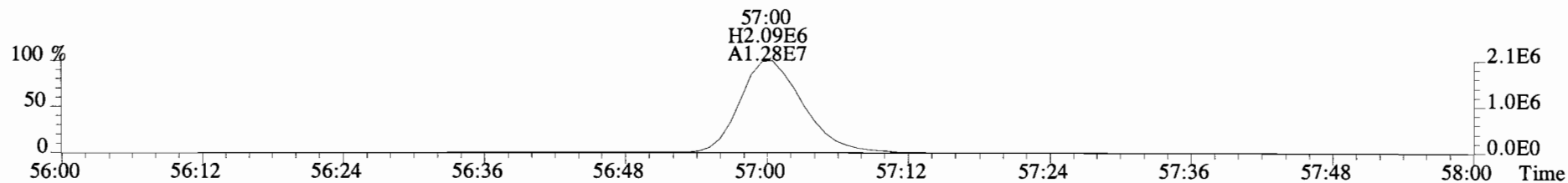
File:140925E1 #1-418 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1364.0,0.00%,F,F)



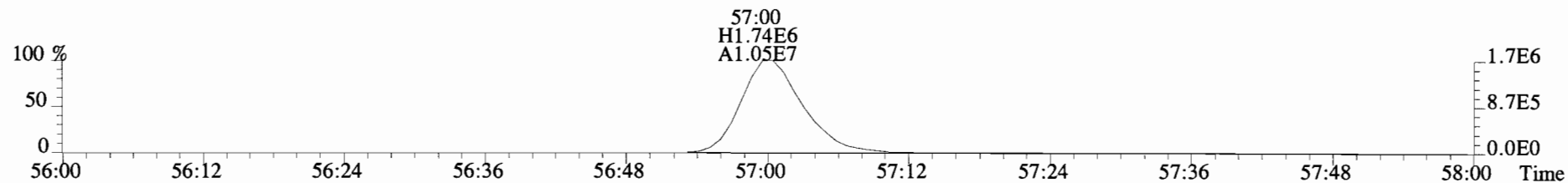
499.6797 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1460.0,0.00%,F,F)



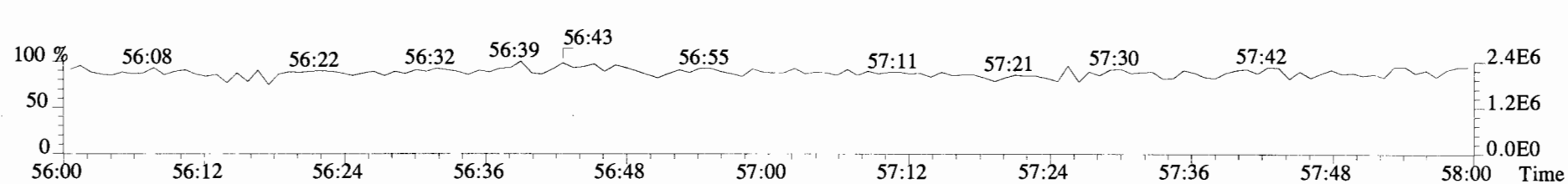
509.7229 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



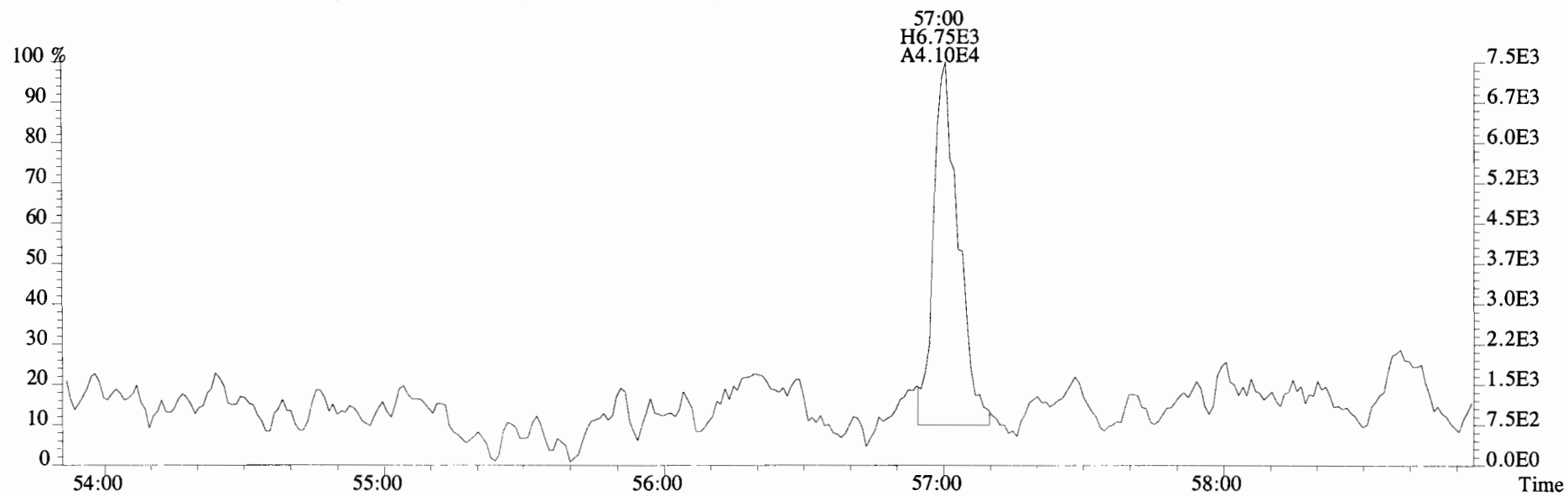
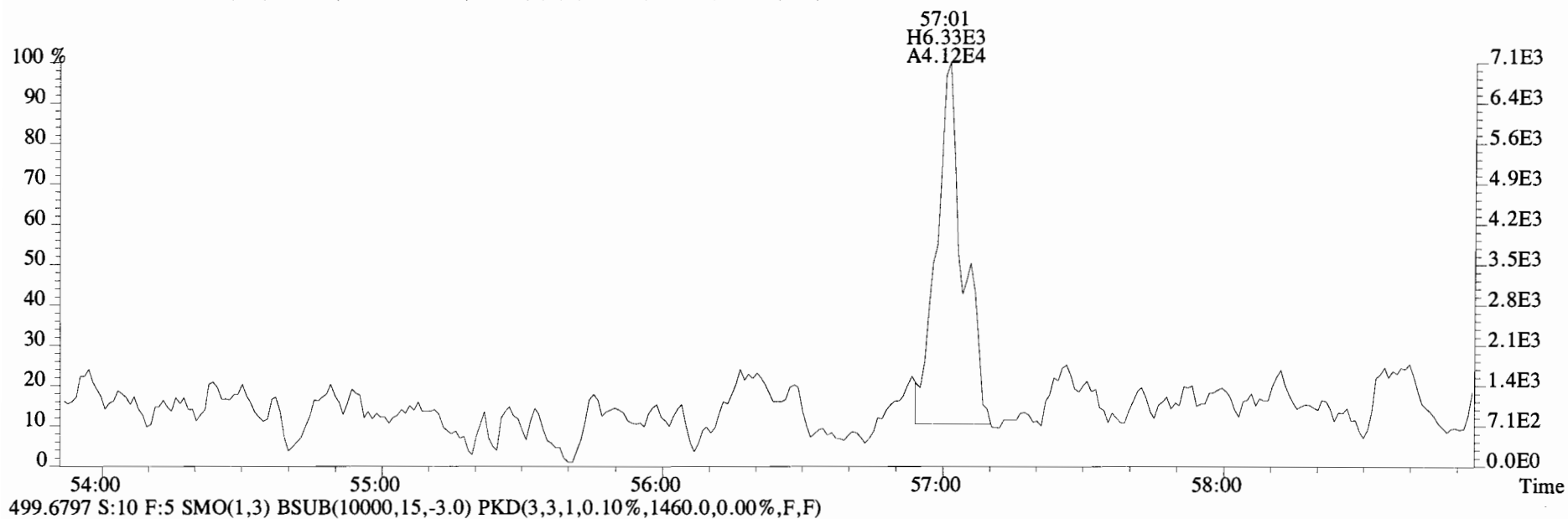
511.7199 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1392.0,0.00%,F,F)



492.9697 S:10 F:5



File:140925E1 #1-418 Acq:25-SEP-2014 17:45:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400668-01 CS-TS-01-20140903-W 1 Exp:PCB\_ZB1  
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1364.0,0.00%,F,F)



Client ID: CS-SP-01-20140903-W  
Lab ID: 1400668-02

Filename: 140925E1  
GC Column ID: ZB-1

S:11 Acq:25-SEP-14 18:49:29  
ICal: PCBVG8-6-20-14 wt/vol: 0.959

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	6.27e+05	2.77	y 16:14	1.25	5.82		*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	2.49e+05	2.79	y 18:37	1.18	2.32		*	2.5	*	0.988	0.983-0.993	
Mono	PCB-3	6.70e+05	3.09	y 18:51	1.22	6.07		*	2.5	*	1.000	0.996-1.006	
Di	PCB-4/10	1.83e+06	1.60	y 20:12	1.55	25.3		*	2.5	*	1.001	0.998-1.008	
Di	PCB-7/9	6.88e+05	1.56	y 22:01	1.27	7.57		*	2.5	*	0.868	0.865-0.873	
Di	PCB-6	1.54e+06	1.74	y 22:40	1.26	17.1		*	2.5	*	0.894	0.890-0.899	
Di	PCB-5/8	7.34e+06	1.64	y 23:04	1.23	82.9		*	2.5	*	0.909	0.906-0.916	
Di	PCB-14	*	*	n NotF $\eta$	1.23	*		25000	2.5	6.56	*	0.949-0.959	
Di	PCB-11	9.28e+06	1.58	y 25:23	1.16	96.9		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	6.69e+05	1.62	y 25:44	1.10	7.36		*	2.5	*	1.014	1.010-1.020	
Di	PCB-15	6.63e+06	1.61	y 26:05	1.21	66.3		*	2.5	*	1.028	1.024-1.034	
Tri	PCB-19	7.78e+05	1.11	y 24:22	1.30	14.6		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF $\eta$	1.83	*		1940	2.5	0.562	*	1.032-1.042	
Tri	PCB-18	7.52e+06	1.02	y 26:00	0.86	140		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	2.85e+06	1.07	y 26:10	0.90	50.7		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	9.50e+05	1.02	y 26:45	1.18	12.9		*	2.5	*	0.981	0.976-0.986	
Tri	PCB-16/32	6.30e+06	1.08	y 27:15	1.03	97.8		*	2.5	*	0.999	0.995-1.005	
Tri	PCB-34	*	*	n NotF $\eta$	1.26	*		3720	2.5	2.36	*	0.956-0.966	
Tri	PCB-23	*	*	n NotF $\eta$	1.31	*		3720	2.5	2.27	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF $\eta$	1.33	*		3720	2.5	2.24	*	0.967-0.977	
Tri	PCB-26	1.14e+06	0.97	y 28:37	1.29	29.7		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	5.11e+05	1.05	y 28:47	1.34	12.8		*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	6.07e+06	0.93	y 29:08	1.42	144		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	5.13e+06	0.98	y 29:15	1.38	125		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-20/21/33	4.67e+06	0.95	y 29:53	1.31	120		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	2.76e+06	0.99	y 30:18	1.32	70.3		*	2.5	*	1.036	1.032-1.042	
Tri	PCB-36	*	*	n NotF $\eta$	1.38	*		3720	2.5	1.98	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF $\eta$	1.42	*		3720	2.5	1.92	*	0.943-0.953	
Tri	PCB-38	1.15e+05	0.94	y 32:12	1.35	2.56		*	2.5	*	0.971	0.967-0.976	
Tri	PCB-35	2.70e+05	0.98	y 32:45	1.38	5.90		*	2.5	*	0.988	0.982-0.992	
Tri	PCB-37	4.09e+06	0.99	y 33:10	1.39	88.6		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-54	*	*	n NotF $\eta$	1.20	*		3050	2.5	1.38	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF $\eta$	0.97	*		3050	2.5	1.71	*	1.037-1.047	
Tetra	PCB-53	8.21e+05	0.80	y 29:55	1.19	20.9		*	2.5	*	0.945	0.941-0.951	
Tetra	PCB-51	3.62e+05	0.68	y 30:16	1.15	9.49		*	2.5	*	0.956	0.952-0.962	
Tetra	PCB-45	9.34e+05	0.76	y 30:42	0.97	29.2		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	4.65e+05	0.74	y 31:12	0.95	14.8		*	2.5	*	0.986	0.982-0.992	

Integrations by:

Analyst: DMS

Date: 9/29/14

Reviewed by: [Signature] Date: 9/30/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	8.16e+06	0.76	y 31:40	1.28	193	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.37	*	3050	2.5	1.64	*	*	1.000-1.010	
Tetra	PCB-43/49	4.74e+06	0.78	y 31:58	1.11	129	*	2.5	*	*	1.010	1.005-1.015	
Tetra	PCB-47	2.32e+06	0.71	y 32:12	1.13	58.3	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-48/75	1.45e+06	0.72	y 32:19	1.30	31.6	*	2.5	*	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.33	*	3050	2.5	1.71	*	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF $\eta$	1.29	*	3050	2.5	1.76	*	*	1.011-1.021	
Tetra	PCB-44	6.18e+06	0.78	y 32:59	0.94	187	*	2.5	*	*	1.025	1.020-1.030	
Tetra	PCB-42/59	2.81e+06	0.75	y 33:13	1.22	65.7	*	2.5	*	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	8.41e+06	0.79	y 33:47	1.31	182	*	2.5	*	*	1.050	1.046-1.056	
Tetra	PCB-68	2.25e+05	0.66	y 34:03	1.49	4.31	*	2.5	*	*	1.058	1.054-1.064	
Tetra	PCB-40	1.24e+06	0.71	y 34:14	0.82	43.1	*	2.5	*	*	1.064	1.061-1.071	
Tetra	PCB-57	8.42e+04	0.92	n 34:38	1.11	1.77	*	2.5	*	*	0.971	0.965-0.975	
Tetra	PCB-67	3.59e+05	0.84	y 34:55	1.07	7.83	*	2.5	*	*	0.979	0.974-0.984	
Tetra	PCB-58	4.21e+04	0.73	y 35:03	1.10	0.896	*	2.5	*	*	0.982	0.977-0.987	
Tetra	PCB-63	3.40e+05	0.87	y 35:12	1.12	7.13	*	2.5	*	*	0.986	0.982-0.992	
Tetra	PCB-74	4.10e+06	0.78	y 35:29	1.20	79.8	*	2.5	*	*	0.994	0.990-1.000	
Tetra	PCB-61/70	1.20e+07	0.78	y 35:42	1.08	260	*	2.5	*	*	1.000	0.994-1.004	
Tetra	PCB-76/66	8.04e+06	0.78	y 35:54	1.14	166	*	2.5	*	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.28	*	3050	2.5	1.43	*	*	0.996-1.006	
Tetra	PCB-55	2.90e+05	0.80	y 36:25	1.11	6.05	*	2.5	*	*	1.008	1.005-1.015	
Tetra	PCB-56/60	6.58e+06	0.75	y 36:56	1.09	140	*	2.5	*	*	1.023	1.018-1.028	
Tetra	PCB-79	3.87e+05	0.69	y 38:02	1.12	7.97	*	2.5	*	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.24	*	3050	2.5	2.02	*	*	0.982-0.992	
Tetra	PCB-81	1.38e+05	0.66	y 39:14	1.38	3.18	*	2.5	*	*	1.000	0.995-1.005	
Tetra	PCB-77	1.71e+06	0.80	y 39:51	1.21	45.0	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.26	*	2220	2.5	2.21	*	*	0.996-1.006	
Penta	PCB-96	6.75e+04	1.58	y 34:05	1.09	2.30	*	2.5	*	*	1.038	1.034-1.044	
Penta	PCB-103	1.40e+05	1.45	y 34:38	0.93	5.58	*	2.5	*	*	1.055	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	1.00	*	2220	2.5	2.78	*	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.11	*	2220	2.5	3.53	*	*	0.981-0.991	
Penta	PCB-95/98/102	7.55e+06	1.61	y 35:59	1.21	323	*	2.5	*	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF $\eta$	1.13	*	2220	2.5	3.46	*	*	0.998-1.008	
Penta	PCB-88/91	1.04e+06	1.59	y 36:24	1.02	52.8	*	2.5	*	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF $\eta$	1.90	*	2220	2.5	2.06	*	*	1.009-1.019	
Penta	PCB-84/92	3.78e+06	1.59	y 37:19	1.05	191	*	2.5	*	*	0.990	0.986-0.996	
Penta	PCB-89	8.67e+04	1.50	y 37:29	1.02	4.53	*	2.5	*	*	0.995	0.991-1.001	

Analyst: *Dms*

Date: *9/29/14*



Client ID: CS-SP-01-20140903-W  
Lab ID: 1400668-02

Filename: 140925E1 S:11 Acq:25-SEP-14 18:49:29  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 0.959

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.11e+07	1.58	y 37:41	1.19	497	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-113	1.69e+05	1.55	y 37:54	1.35	6.67	*	*	2.5	*	1.006	1.002-1.012	
Penta	PCB-99	4.08e+06	1.60	y 38:02	1.29	169	*	*	2.5	*	1.009	1.005-1.015	
Penta	PCB-119	3.51e+05	1.39	y 38:29	1.72	12.3	*	*	2.5	*	0.987	0.982-0.992	
Penta	PCB-108/112	4.04e+05	1.47	y 38:39	1.29	18.9	*	*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n Not F $\eta$	1.52	*		2220	2.5	3.07	*	0.991-1.001	
Penta	PCB-97	2.67e+06	1.65	y 39:00	1.25	128	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-86	4.56e+04	1.57	y 39:10	1.02	2.69	*	*	2.5	*	1.005	1.000-1.010	
Penta	PCB-87/117/125	4.38e+06	1.59	y 39:18	1.56	169	*	*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	1.71e+05	1.72	y 39:27	1.75	5.86	*	*	2.5	*	1.012	1.007-1.017	
Penta	PCB-85/116	1.41e+06	1.66	y 39:33	1.30	65.1	*	*	2.5	*	1.015	1.010-1.020	
Penta	PCB-120	4.68e+04	1.57	y 39:44	1.78	1.58	*	*	2.5	*	1.019	1.016-1.026	
Penta	PCB-110	1.42e+07	1.60	y 39:57	1.68	509	*	*	2.5	*	1.025	1.020-1.030	
Penta	PCB-82	9.58e+05	1.61	y 40:34	0.74	73.1	*	*	2.5	*	0.976	0.972-0.982	
Penta	PCB-124	6.42e+05	1.75	y 41:16	1.32	27.4	*	*	2.5	*	0.992	0.988-0.998	
Penta	PCB-107/109	8.19e+05	1.69	y 41:27	1.22	37.8	*	*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	1.54e+05	1.45	y 41:37	1.22	7.12	*	*	2.5	*	1.001	0.995-1.005	
Penta	PCB-106/118	1.02e+07	1.58	y 41:48	1.22	470	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	2.63e+05	1.41	y 42:28	1.36	8.75	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	1.26e+05	1.76	y 42:35	1.24	4.58	*	*	2.5	*	1.003	0.999-1.009	
Penta	PCB-105	5.35e+06	1.69	y 43:20	1.28	198	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n Not F $\eta$	1.14	*		2190	2.5	3.51	*	0.995-1.005	
Penta	PCB-126	1.81e+05	1.54	y 45:38	1.28	8.25	*	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n Not F $\eta$	1.14	*		*	2.5	*	*	0.966-1.006	
Hexa	PCB-150	*	*	n Not F $\eta$	1.06	*		*	2.5	*	*	1.030-1.040	
Hexa	PCB-152	*	*	n Not F $\eta$	1.10	*		*	2.5	*	*	1.043-1.053	
Hexa	PCB-145	*	*	n Not F $\eta$	1.09	*		*	2.5	*	*	1.055-1.065	
Hexa	PCB-136	*	*	n Not F $\eta$	1.08	*		*	2.5	*	*	1.064-1.074	
Hexa	PCB-148	*	*	n Not F $\eta$	0.74	*		*	2.5	*	*	1.066-1.076	
Hexa	PCB-154	*	*	n Not F $\eta$	0.88	*		*	2.5	*	*	1.079-1.089	
Hexa	PCB-151	*	*	n Not F $\eta$	0.81	*		*	2.5	*	*	1.097-1.107	
Hexa	PCB-135	*	*	n Not F $\eta$	0.78	*		*	2.5	*	*	1.101-1.113	
Hexa	PCB-144	*	*	n Not F $\eta$	0.82	*		*	2.5	*	*	1.105-1.116	
Hexa	PCB-147	*	*	n Not F $\eta$	0.83	*		*	2.5	*	*	1.011-1.120	
Hexa	PCB-139/149	*	*	n Not F $\eta$	0.84	*		*	2.5	*	*	1.115-1.127	
Hexa	PCB-140	*	*	n Not F $\eta$	0.79	*		*	2.5	*	*	1.120-1.132	
Hexa	PCB-134/143	8.81e+05	1.22	y 42:22	0.93	45.2	*	*	2.5	*	0.974	0.970-0.980	

\* = See 1:5 dilution

Analyst: Dms

Date: 9/29/14

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400668-02

Filename: 140925E1 S:11 Acq:25-SEP-14 18:49:29  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 0.959

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	5.67e+05	1.22	y 42:41	0.95	28.5	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotFη	0.91	*		2220	2.5	3.74	*	0.981-0.991	
Hexa	PCB-146/165	3.71e+06	1.19	y 43:05	1.16	153	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	6.65e+06	1.28	y 43:20	1.11	284	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	2.02e+07	1.25	y 43:30	1.18	814	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotFη	1.37	*		2220	2.5	2.50	*	1.000-1.010	
Hexa	PCB-141	3.78e+06	1.21	y 44:14	0.97	198	*	2.5	*	*	1.000	0.996-1.005	
Hexa	PCB-137	6.60e+05	1.17	y 44:38	1.07	31.4	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	1.06e+06	1.23	y 44:43	0.85	63.7	*	2.5	*	*	1.011	1.007-1.017	
Hexa	PCB-138/163/164	2.10e+07	1.23	y 45:06	1.23	974	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	2.24e+06	1.24	y 45:20	1.29	98.6	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	6.70e+05	1.07	y 45:35	0.92	41.1	*	2.5	*	*	1.011	1.007-1.017	
Hexa	PCB-166	*	*	n NotFη	1.12	*		2220	2.5	3.75	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotFη	1.16	*		2220	2.5	3.59	*	0.995-1.005	
Hexa	PCB-128/162	2.69e+06	1.28	y 46:40	1.02	141	*	2.5	*	*	1.005	1.002-1.012	
Hexa	PCB-167	7.97e+05	1.20	y 47:08	1.06	39.7	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	1.70e+06	1.19	y 48:26	1.18	85.2	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-157	3.90e+05	1.36	y 48:42	1.08	19.8	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotFη	1.11	*		5050	2.5	16.0	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotFη	1.40	*		1540	2.5	1.41	*	0.995-1.005	
Hepta	PCB-184	*	*	n NotFη	1.24	*		1540	2.5	1.60	*	1.006-1.016	
Hepta	PCB-179	2.61e+06	1.00	y 44:20	1.30	126	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	8.50e+05	1.06	y 44:48	1.36	39.5	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotFη	1.28	*		1540	2.5	1.55	*	1.049-1.059	
Hepta	PCB-178	9.05e+05	1.03	y 45:56	0.94	61.1	*	2.5	*	*	1.066	1.061-1.071	
Hepta	PCB-175	1.99e+05	1.01	y 46:18	0.97	13.0	*	2.5	*	*	1.075	1.069-1.079	
Hepta	PCB-182/187	5.81e+06	1.09	y 46:27	1.01	362	*	2.5	*	*	1.078	1.073-1.083	
Hepta	PCB-183	2.77e+06	1.04	y 46:48	1.08	162	*	2.5	*	*	1.086	1.080-1.090	
Hepta	PCB-185	4.33e+05	1.10	y 47:28	1.34	38.6	*	2.5	*	*	0.955	0.951-0.961	
Hepta	PCB-174	4.25e+06	1.05	y 47:49	1.34	379	*	2.5	*	*	0.962	0.958-0.968	
Hepta	PCB-181	*	*	n NotFη	1.36	*		1540	2.5	3.09	*	0.961-0.971	
Hepta	PCB-177	2.34e+06	1.13	y 48:06	1.24	225	*	2.5	*	*	0.967	0.964-0.974	
Hepta	PCB-171	1.21e+06	1.07	y 48:24	1.31	110	*	2.5	*	*	0.974	0.970-0.980	
Hepta	PCB-173	6.73e+04	0.82	n 48:50	1.16	6.93	R	*	2.5	*	0.982	0.979-0.989	
Hepta	PCB-172	6.20e+05	1.10	y 49:20	1.22	60.6	*	2.5	*	*	0.992	0.988-0.998	
Hepta	PCB-192	2.58e+05	0.81	n 49:36	1.53	20.2	R	*	2.5	*	0.998	0.991-1.001	
Hepta	PCB-180	8.61e+06	1.10	y 49:45	1.43	720	*	2.5	*	*	1.001	0.995-1.005	

Analyst: *Dms*

Date: *9/29/14*

Client ID: CS-SP-01-20140903-W  
Lab ID: 1400668-02

Filename: 140925E1 S:11 Acq:25-SEP-14 18:49:29  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 0.959

ConCal: ST140925E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	5.02e+05	0.97	y 49:57	1.65	36.2		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	1.48e+05	0.79	n 50:11	1.67	10.6	R	*	2.5	*	1.009	1.004-1.014	
Hepta	PCB-170	2.90e+06	1.13	y 51:11	1.50	354		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	6.26e+05	1.00	y 51:22	2.02	56.7		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	*	*	n NotFη	1.54	*	X	*	2.5	*	*	0.995-1.005	
Octa	PCB-202	3.76e+05	0.85	y 48:36	1.04	37.5		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	2.24e+05	0.94	y 49:06	1.10	21.1		*	2.5	*	1.011	1.006-1.016	
Octa	PCB-204	*	*	n NotFη	0.99	*		1710	2.5	4.90	*	1.009-1.019	
Octa	PCB-197	8.93e+04	0.92	y 49:35	1.07	8.62		*	2.5	*	1.021	1.015-1.025	
Octa	PCB-200	2.03e+05	0.96	y 50:24	1.02	20.7		*	2.5	*	1.037	1.032-1.044	
Octa	PCB-198	7.01e+04	0.89	y 51:45	0.74	9.78		*	2.5	*	1.065	1.058-1.068	
Octa	PCB-199	9.76e+05	1.02	y 51:52	0.73	139		*	2.5	*	1.068	1.060-1.070	
Octa	PCB-196/203	1.02e+06	0.88	y 52:08	0.77	137		*	2.5	*	1.073	1.066-1.076	
Octa	PCB-195	3.14e+05	0.95	y 53:18	1.20	65.6		*	2.5	*	0.982	0.979-0.989	
Octa	PCB-194	6.76e+05	0.85	y 54:16	1.25	136		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	*	*	n NotFη	1.41	*		2930	2.5	18.6	*	1.001-1.011	
Nona	PCB-208	*	*	n NotFη	0.96	*	X	*	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	

X = See 1:5 dilution

Analyst: Dms

Date: 9/29/14

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.55e+06	2.77 y	16:14	1.22	14.2165	
Total Di-PCB	2.80e+07	1.60 y	20:12	1.21	303.429	
Total Tri-PCB	1.84e+07	1.11 y	24:22	1.16	315.925	
Total Tri-PCB	2.48e+07	0.97 y	28:37	1.35	598.754	Sum:914.679
Total Tetra-PCB	7.21e+07	0.80 y	29:55	1.17	1692.07	
Total Penta-PCB	6.45e+07	1.58 y	34:05	1.21	2778.58	
Total Penta-PCB	5.92e+06	1.41 y	42:28	1.26	219.557	Sum:2998.13
Total Hexa-PCB	*	* n	NotFnd	0.92	* 1005.65	
Total Hexa-PCB	6.70e+07	1.22 y	42:22	1.08	3015.91	Sum:3015.91 + 1005.65 = 4021.56
Total Hepta-PCB	3.46e+07	1.00 y	44:20	1.27	2744.38	+ 12.796 = 2757.2
Total Octa-PCB	2.96e+06	0.85 y	48:36	0.92	373.752	
Total Octa-PCB	9.90e+05	0.95 y	53:18	1.29	201.437	Sum:575.189
Total Nona-PCB	*	* n	NotFnd	0.96	* 124.618	
Total Deca-PCB	*	* n	NotFnd	1.18	* 30.9147	

Total PCB Conc: 12297.4393440 + 1185.54 = 13482.98  
13400

A = see 1:5 dilution

Integrations  
by  
Analyst: DMS  
Date: 9/29/14

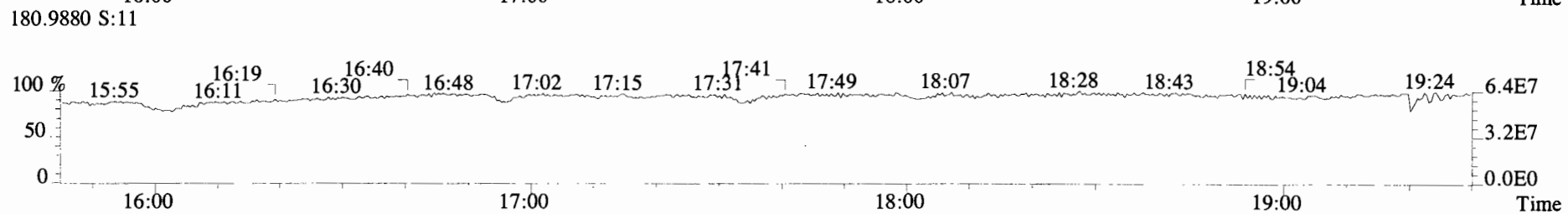
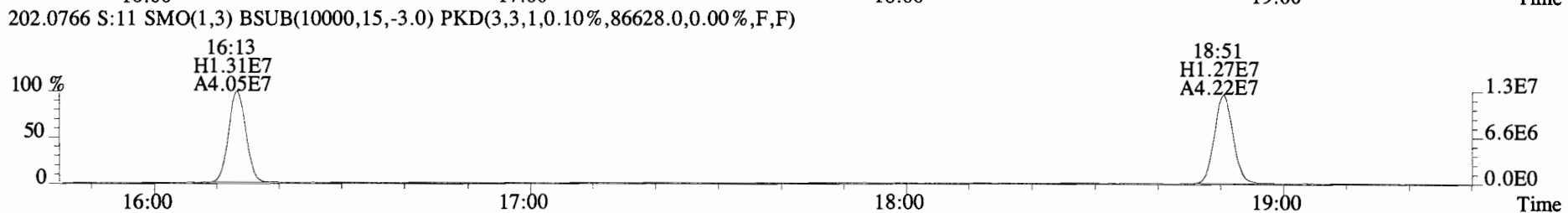
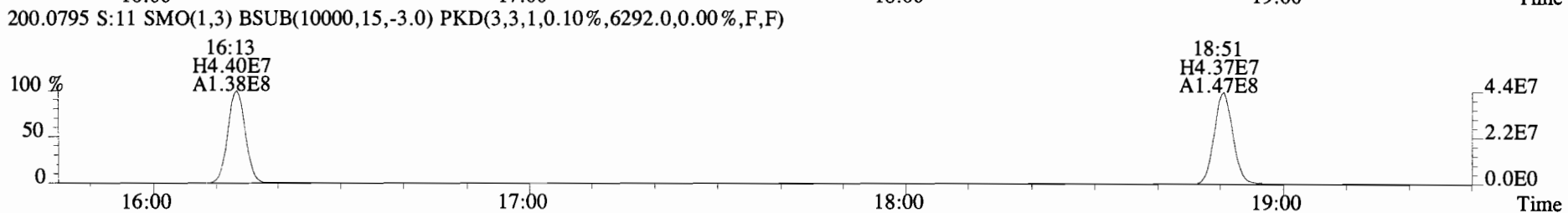
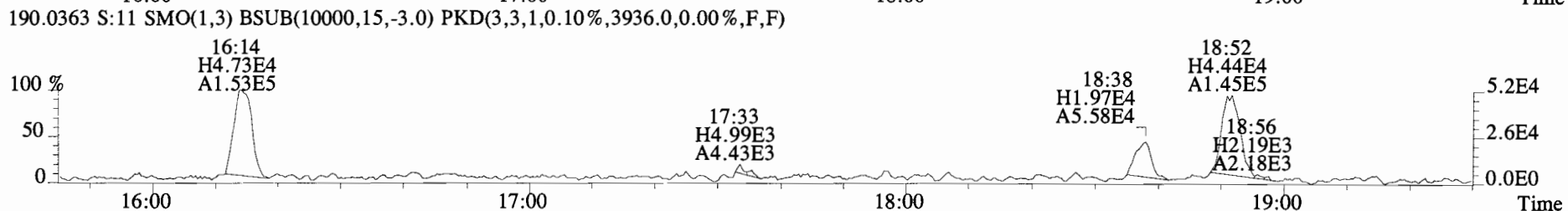
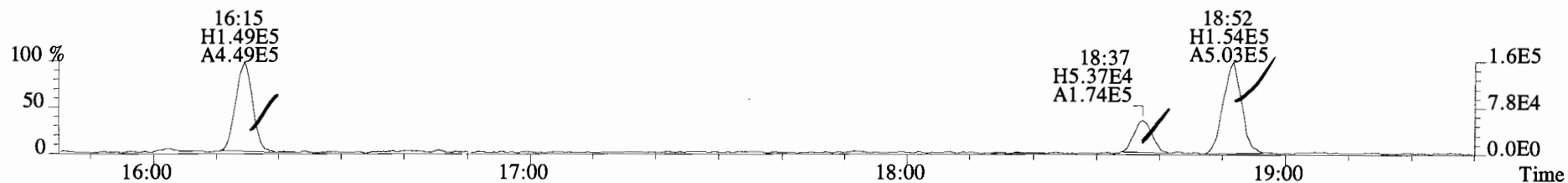
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.79e+08	3.42 y	0.89	16:13	0.622	0.622-0.628		2170	104											
13C-PCB-3	1.89e+08	3.47 y	0.93	18:51	0.723	0.721-0.729		2190	105		13C-PCB-79	1.00e+08	0.76 y	1.01	38:01	1.029	1.023-1.033	2070	99.1	
13C-PCB-4	9.68e+07	1.57 y	0.55	20:11	0.774	0.772-0.780		1900	91.3		13C-PCB-178	2.43e+07	0.48 y	0.63	45:55	0.984	0.979-0.989	2130	102	
13C-PCB-9	1.50e+08	1.57 y	0.83	21:59	0.843	0.840-0.848		1950	93.6											
13C-PCB-11	1.72e+08	1.57 y	0.94	25:22	0.973	0.968-0.978		1980	95.0	PS vs. IS										
13C-PCB-19	8.56e+07	1.13 y	0.53	24:21	0.934	0.929-0.939		1730	83.0		Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-28	6.20e+07	0.99 y	0.89	29:14	1.003	0.999-1.009		1560	74.8		13C-PCB-79	1.00e+08	0.76 y	1.20	38:01	0.969	0.963-0.973	2660	127	
13C-PCB-32	1.30e+08	1.11 y	0.81	27:16	1.046	1.041-1.051		1730	82.8		13C-PCB-178	2.43e+07	0.48 y	0.94	45:55	0.924	0.920-0.930	3100	149	
13C-PCB-37	6.92e+07	1.01 y	0.83	33:09	1.138	1.131-1.143		1860	89.2											
13C-PCB-47	7.34e+07	0.77 y	0.74	32:11	0.871	0.867-0.875		2040	97.9											
13C-PCB-52	6.89e+07	0.77 y	0.71	31:39	0.857	0.853-0.861		2020	96.7											
13C-PCB-54	8.26e+07	0.77 y	0.85	28:06	0.761	0.758-0.766		2010	96.5											
13C-PCB-70	8.89e+07	0.78 y	0.94	35:41	0.966	0.961-0.971		1950	93.5											
13C-PCB-77	6.57e+07	0.79 y	0.89	39:51	1.079	1.073-1.083		1520	73.0											
13C-PCB-80	9.02e+07	0.78 y	0.96	36:07	0.978	0.972-0.982		1940	93.0											
13C-PCB-81	6.56e+07	0.78 y	0.84	39:14	1.062	1.057-1.067		1620	77.7											
13C-PCB-95	4.01e+07	1.68 y	0.74	35:59	0.912	0.908-0.918		2240	108	RS										
13C-PCB-97	3.47e+07	1.65 y	0.69	38:59	0.988	0.984-0.994		2090	100		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	3.92e+07	1.66 y	0.79	37:41	0.955	0.951-0.961		2080	99.6		13C-PCB-15	1.94e+08	1.55 y	1.00	26:04	2080				
13C-PCB-104	5.60e+07	1.63 y	1.00	32:50	0.832	0.829-0.837		2340	112		13C-PCB-31	9.33e+07	1.00 y	1.00	29:08	2080				
13C-PCB-105	4.39e+07	1.52 y	1.24	43:19	0.929	0.924-0.934		1960	94.3		13C-PCB-60	1.01e+08	0.77 y	1.00	36:56	2080				
13C-PCB-114	4.62e+07	1.56 y	1.21	42:27	0.910	0.905-0.915		2120	102		13C-PCB-111	5.01e+07	1.58 y	1.00	39:27	2080				
13C-PCB-118	3.71e+07	1.65 y	0.98	41:47	1.059	1.054-1.064		1570	75.2		13C-PCB-128	3.76e+07	1.23 y	1.00	46:39	2080				
13C-PCB-123	3.70e+07	1.64 y	0.95	41:35	1.054	1.049-1.059		1620	77.7		13C-PCB-205	1.10e+07	0.88 y	1.00	54:34	2080				
13C-PCB-126	3.57e+07	1.53 y	1.16	45:37	0.978	0.972-0.982		1700	81.7											
13C-PCB-127	4.53e+07	1.54 y	1.34	43:42	0.937	0.931-0.941		1870	89.6											
13C-PCB-138	3.68e+07	1.25 y	1.04	45:04	0.966	0.961-0.971		1950	93.6											
13C-PCB-141	4.09e+07	1.26 y	1.07	44:13	0.948	0.943-0.953		2110	101											
13C-PCB-153	4.39e+07	1.26 y	1.11	43:29	0.932	0.927-0.937		2180	105	* 96.6										
13C-PCB-155	2.84e+07	1.31 y	0.83	37:13	0.943	0.939-0.949		1420	68.2	* 96.6										
13C-PCB-156	3.52e+07	1.29 y	1.24	48:25	1.038	1.032-1.042		1570	75.2											
13C-PCB-157	3.80e+07	1.34 y	1.31	48:41	1.044	1.037-1.047		1600	77.0											
13C-PCB-159	3.89e+07	1.25 y	1.20	46:25	0.995	0.989-0.999		1800	86.2											
13C-PCB-167	3.94e+07	1.28 y	1.32	47:07	1.010	1.004-1.014		1650	79.3											
13C-PCB-169	2.21e+07	1.27 y	1.22	50:52	1.090	1.082-1.092		1010	48.4											
13C-PCB-170	1.14e+07	0.47 y	0.54	51:10	1.097	1.089-1.101		1180	56.6											
13C-PCB-180	1.75e+07	0.47 y	0.67	49:43	1.066	1.059-1.069		1440	68.8											
13C-PCB-188	3.29e+07	0.45 y	0.94	43:05	0.924	0.919-0.929		1950	93.6											
13C-PCB-189	*	* n	0.72	NotFnd	*	1.120-1.132		*		* 54.4 *										
13C-PCB-194	8.32e+06	0.89 y	0.81	54:16	0.995	0.990-1.000		1940	93.2											
13C-PCB-202	2.01e+07	0.93 y	0.83	48:35	1.041	1.036-1.046		1340	(64.2) 36 *											
13C-PCB-206	1.11e+07	0.78 y	0.66	56:04	1.027	1.021-1.031		3180	(152) 96.6 *											
13C-PCB-208	1.78e+07	0.79 y	1.12	53:26	0.979	0.976-0.986		3000	(144) 100 *											
13C-PCB-209	1.24e+07	1.22 y	0.61	57:34	1.055	1.044-1.054		3810	(183) 98.7 *											

Analyst: DMS

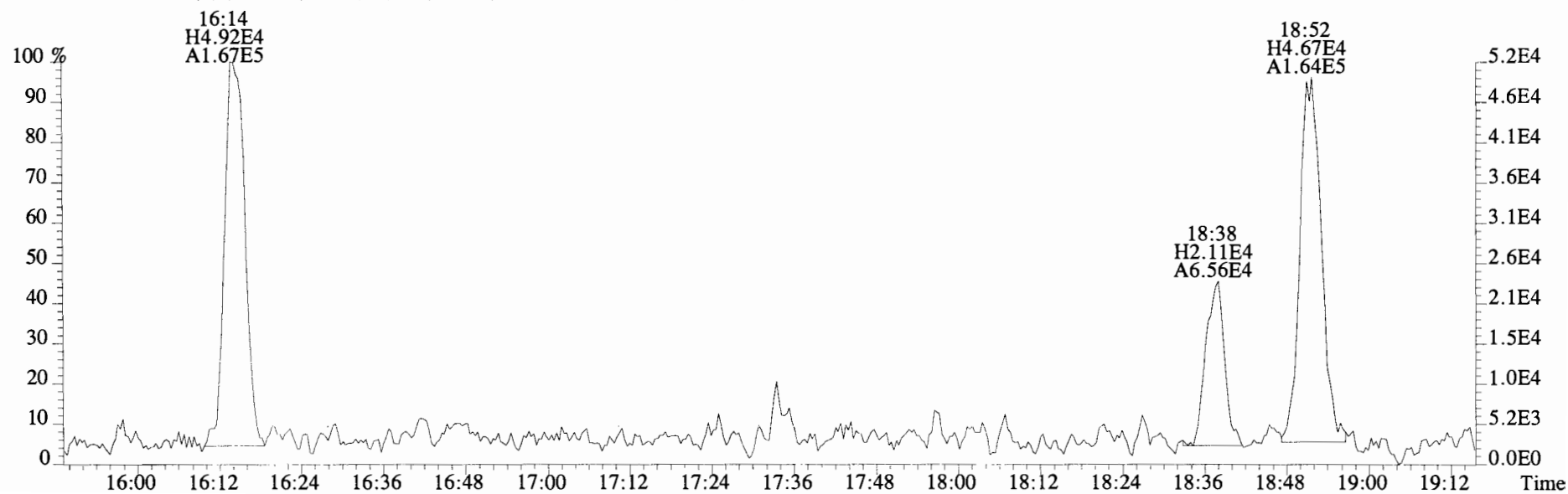
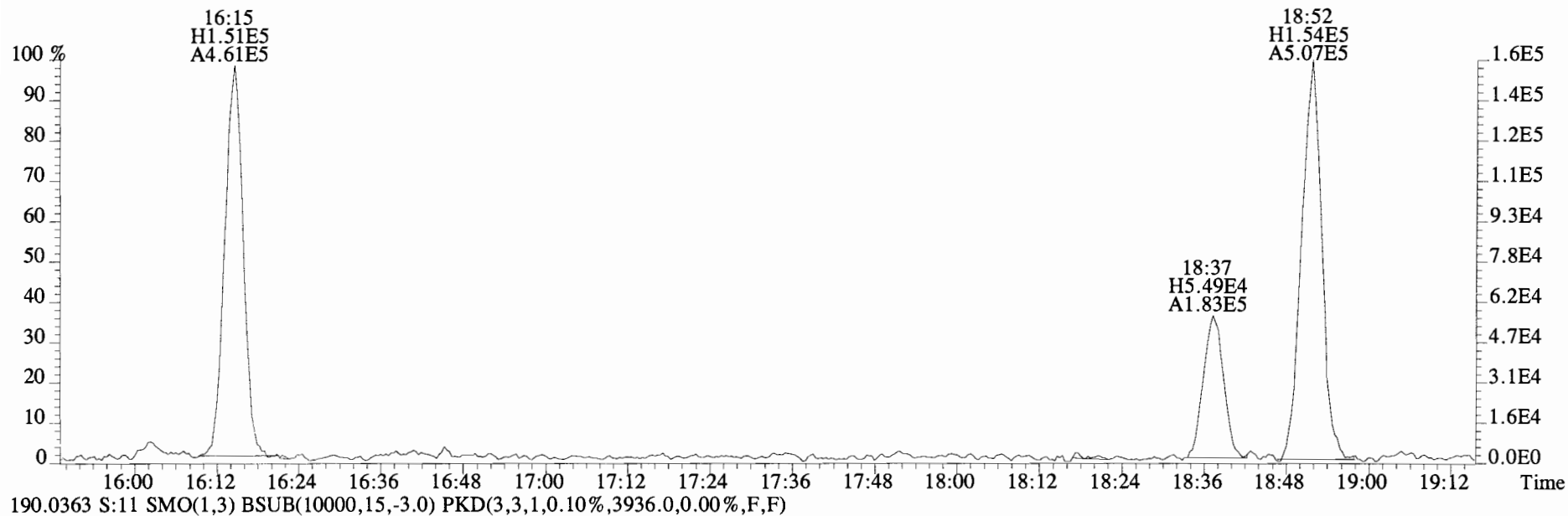
Date: 9/26/14

\* = See 1:5 Dilution

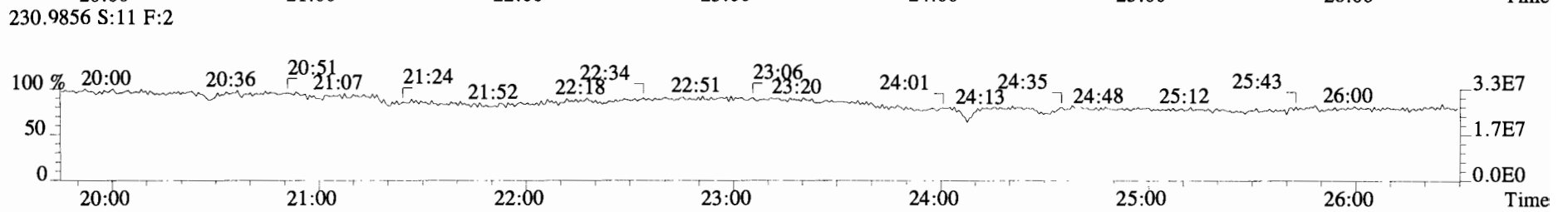
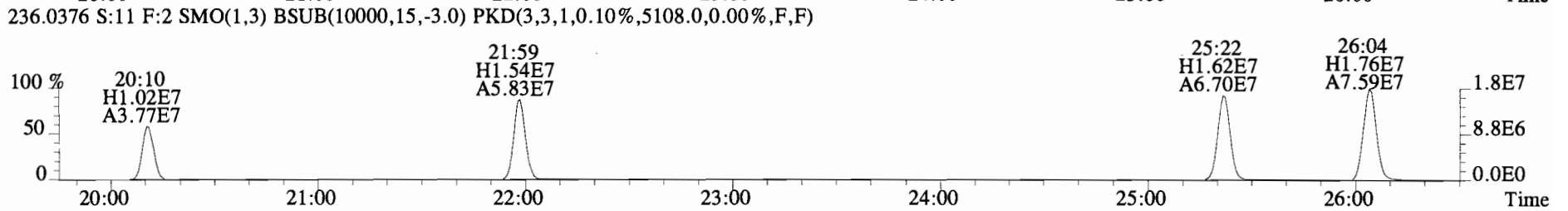
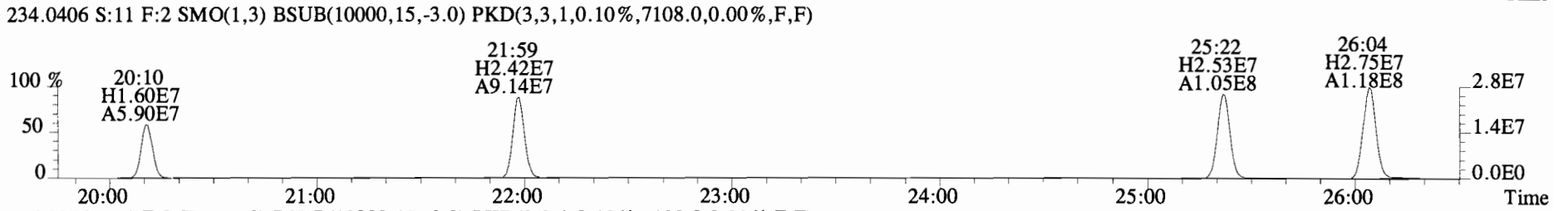
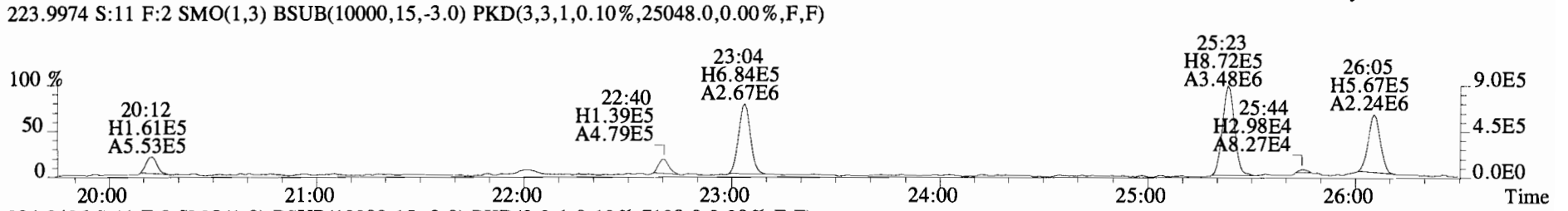
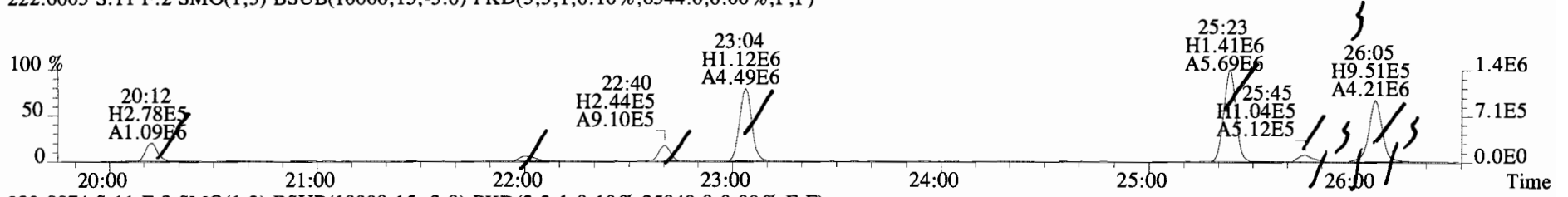
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188.0393 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3044.0,0.00%,F,F)



File:140925E1 #1-729 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
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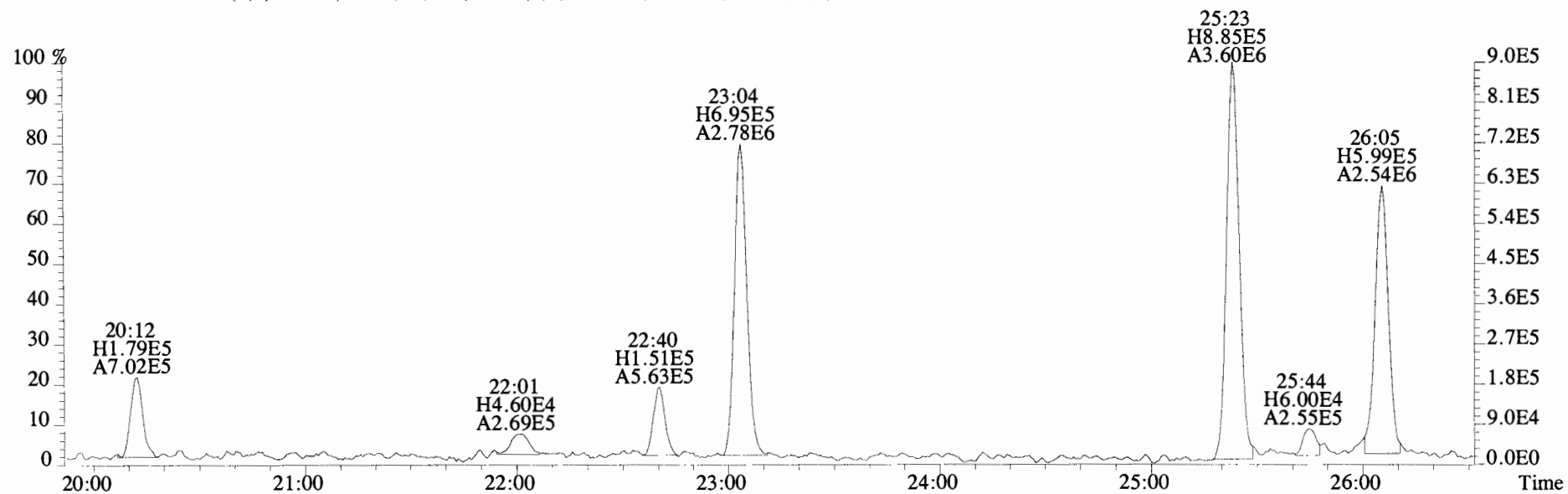
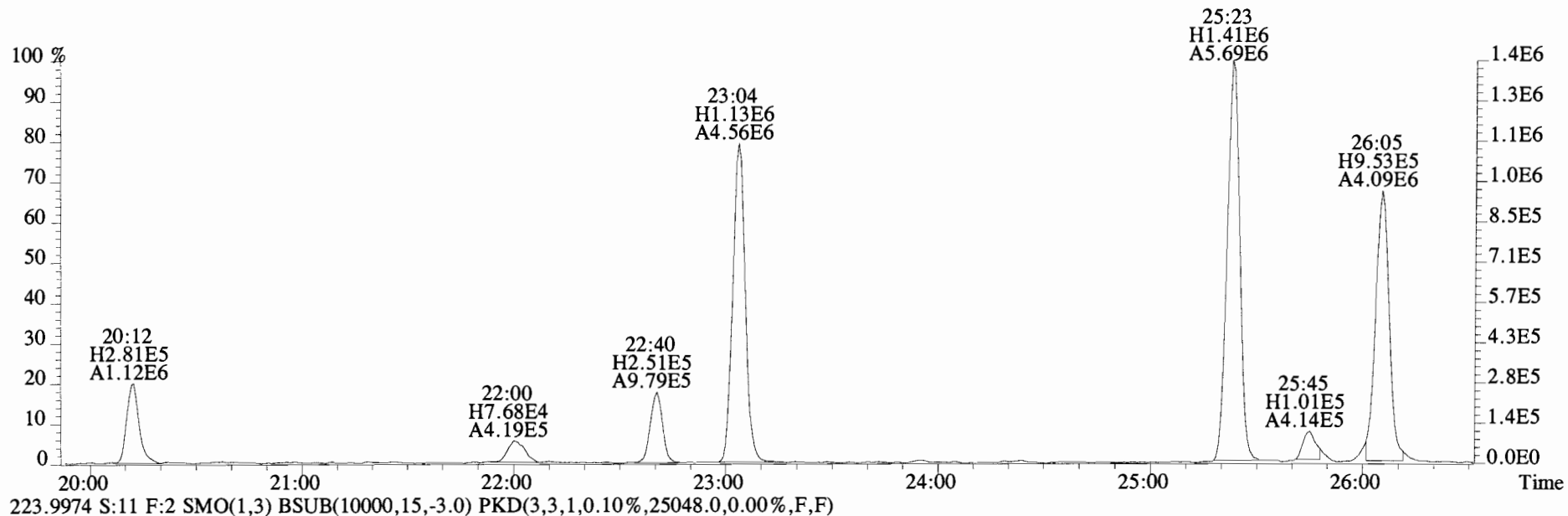


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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
222.0003 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6344.0,0.00%,F,F)

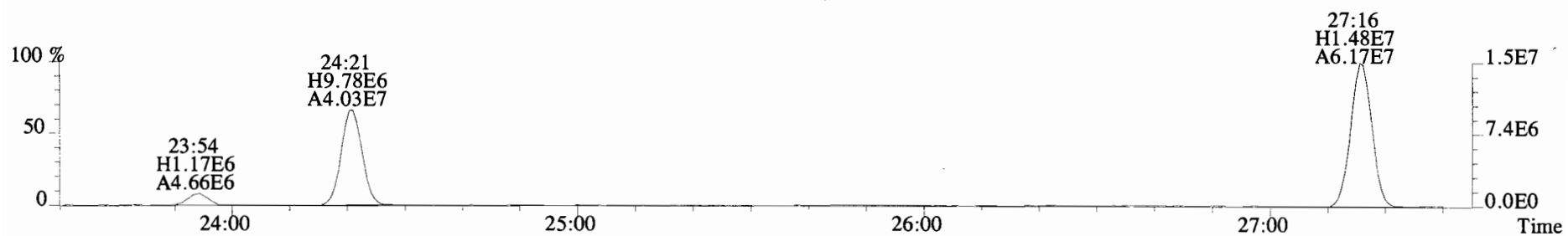
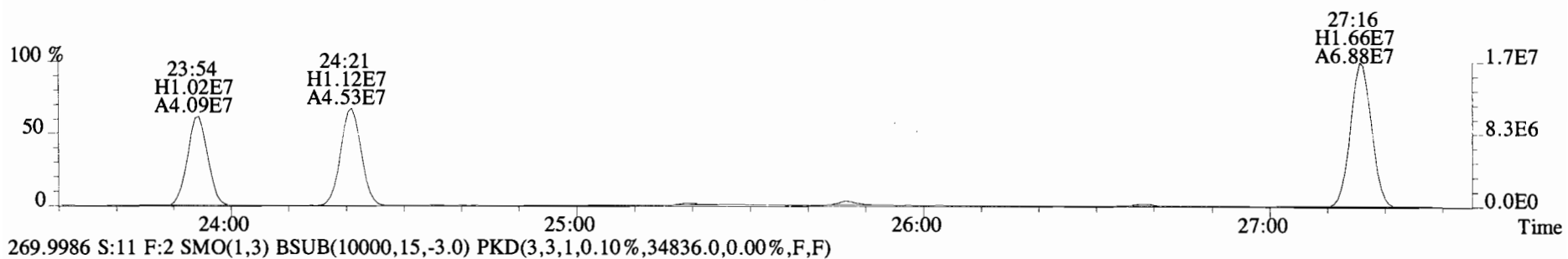
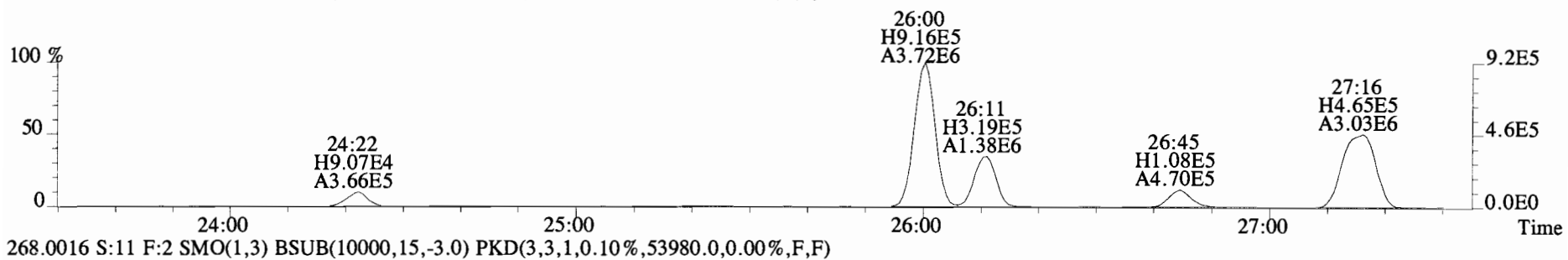
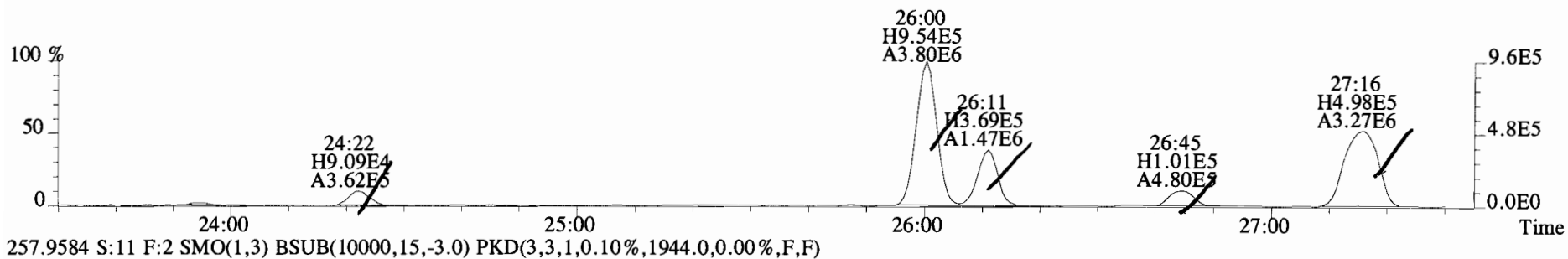




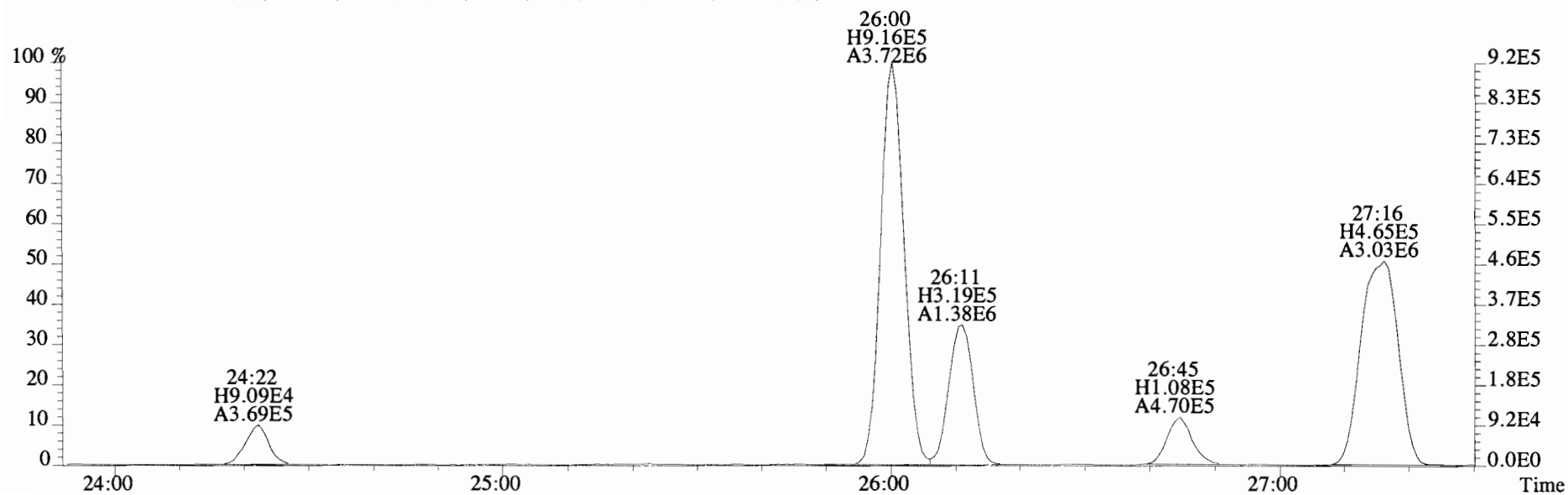
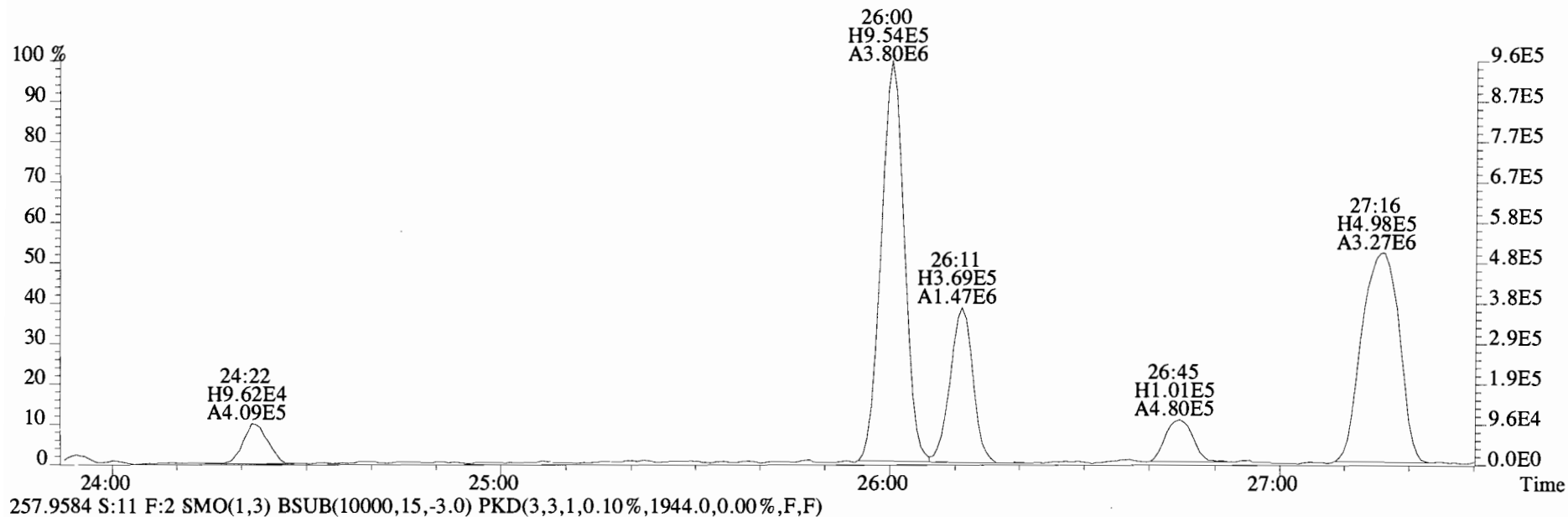
File:140925E1 #1-757 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
222.0003 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6344.0,0.00%,F,F)



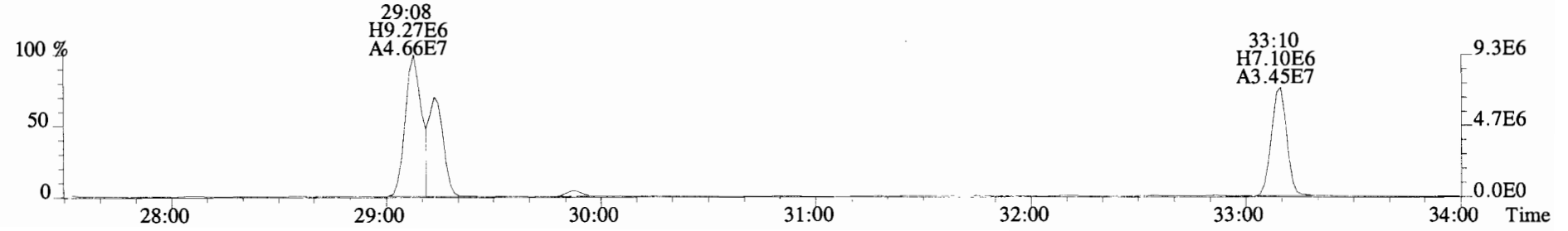
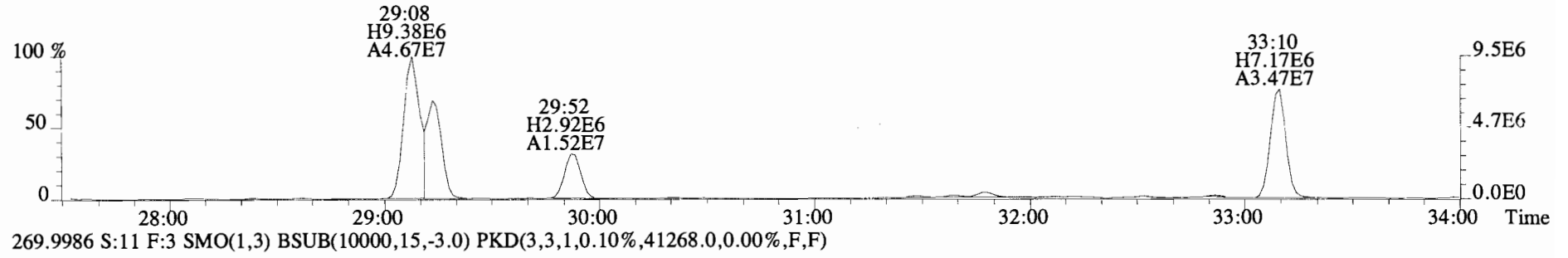
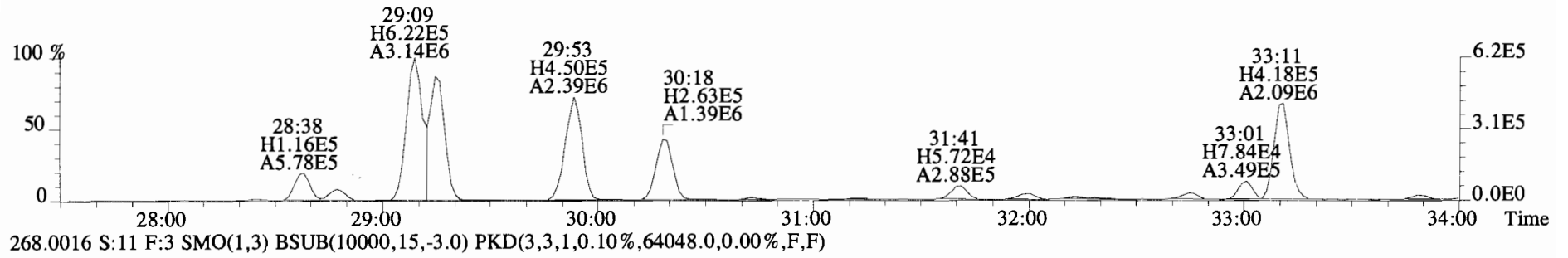
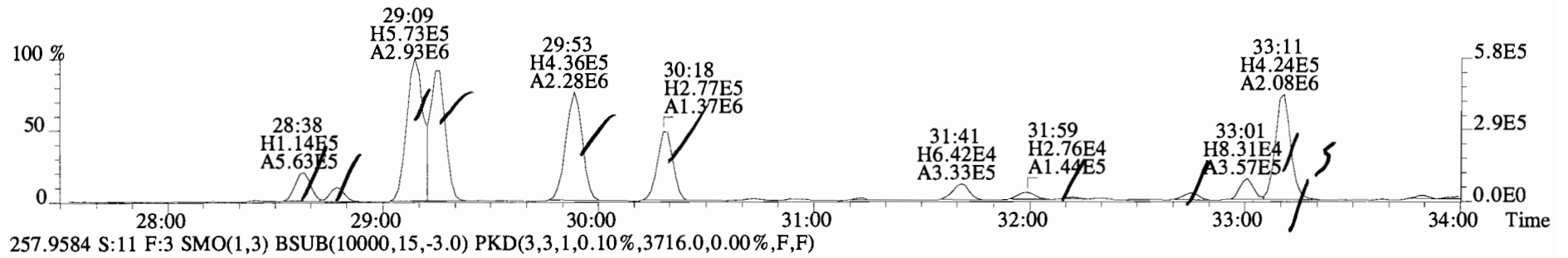
File:140925E1 #1-757 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7288.0,0.00%,F,F)



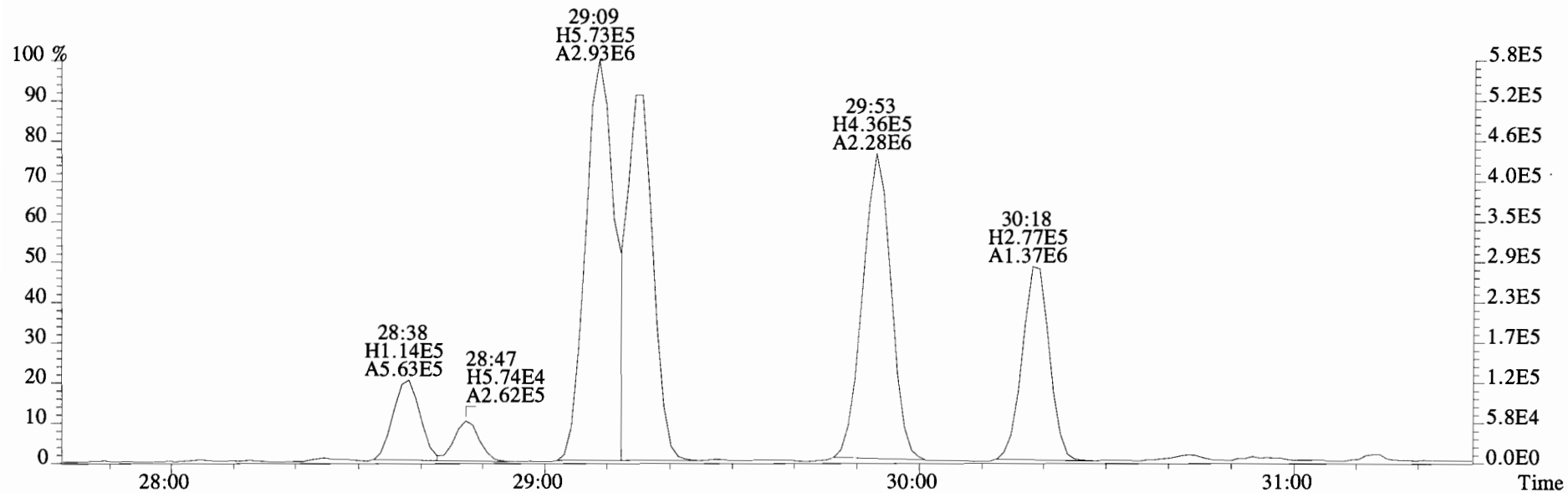
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7288.0,0.00%,F,F)



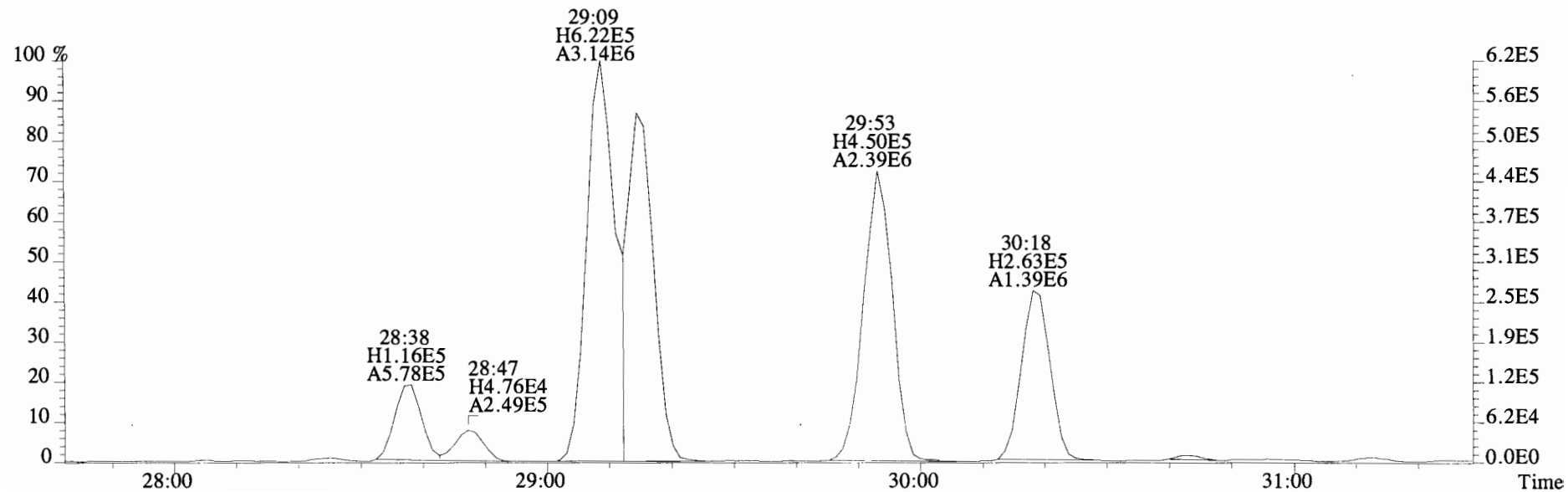
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



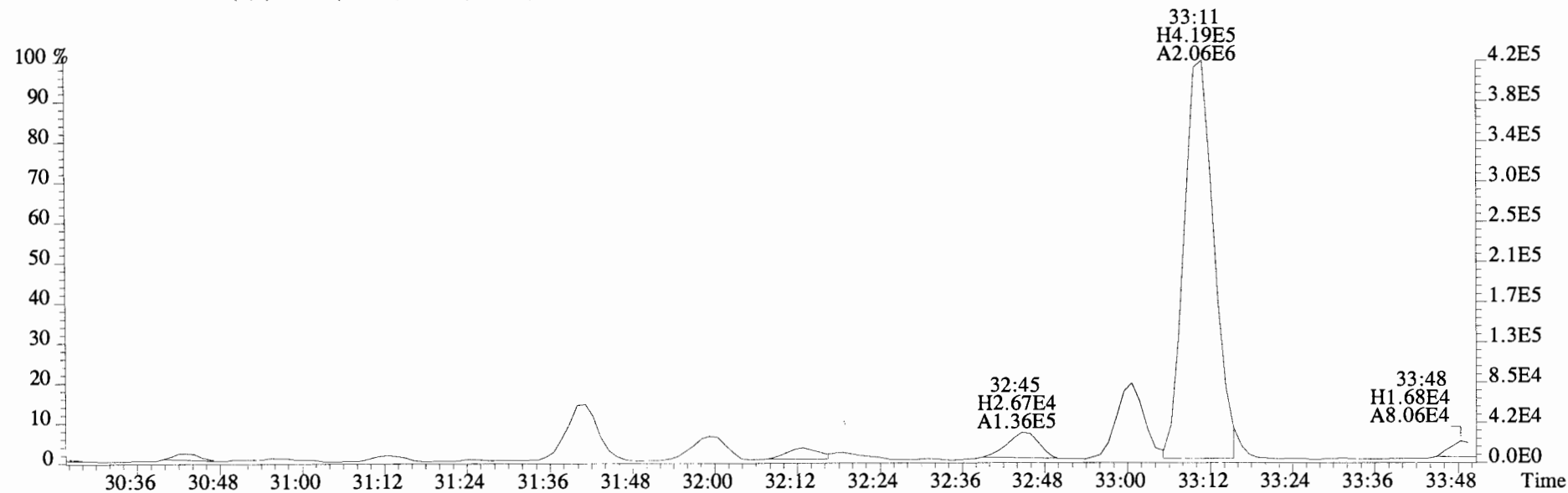
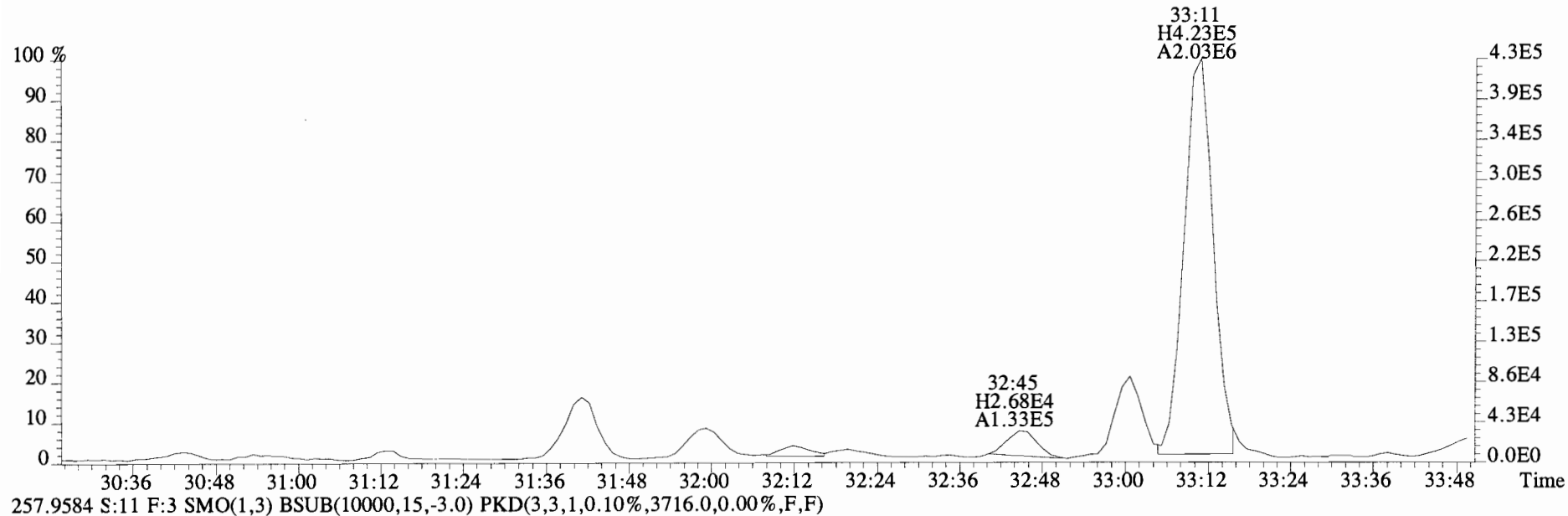
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



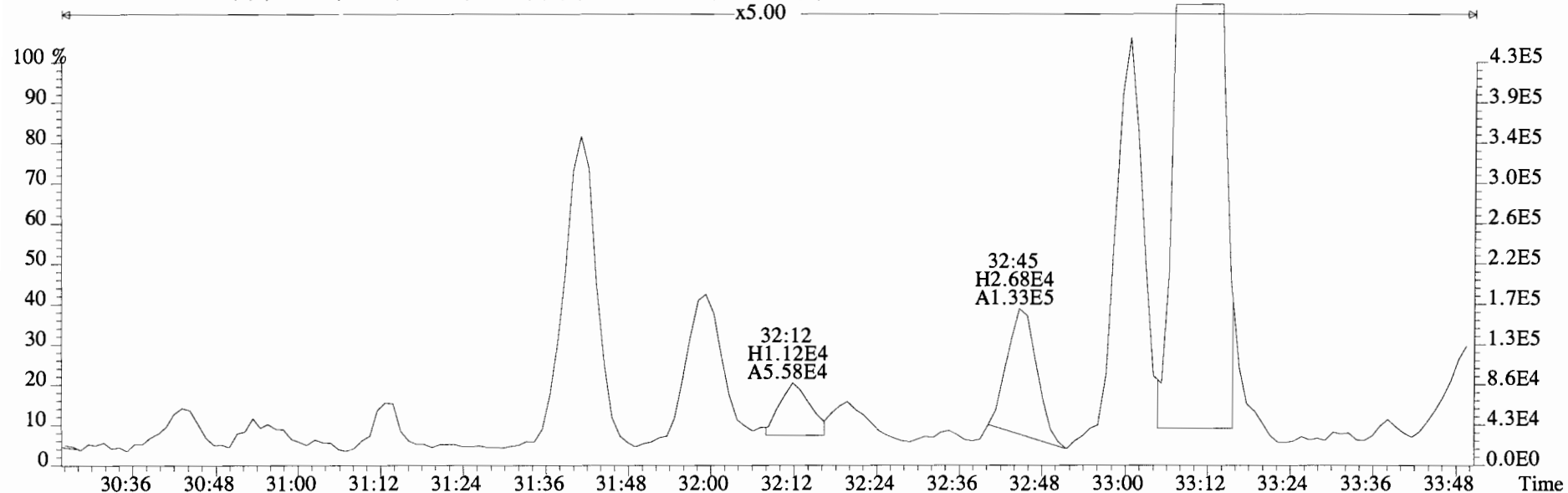
257.9584 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)



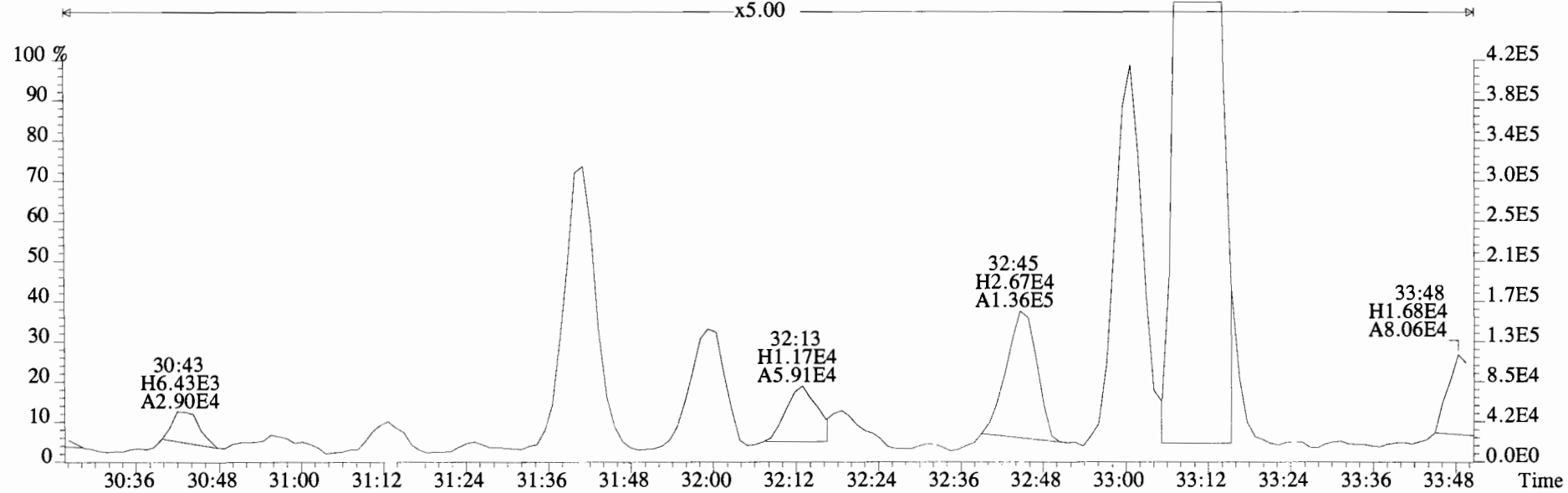
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



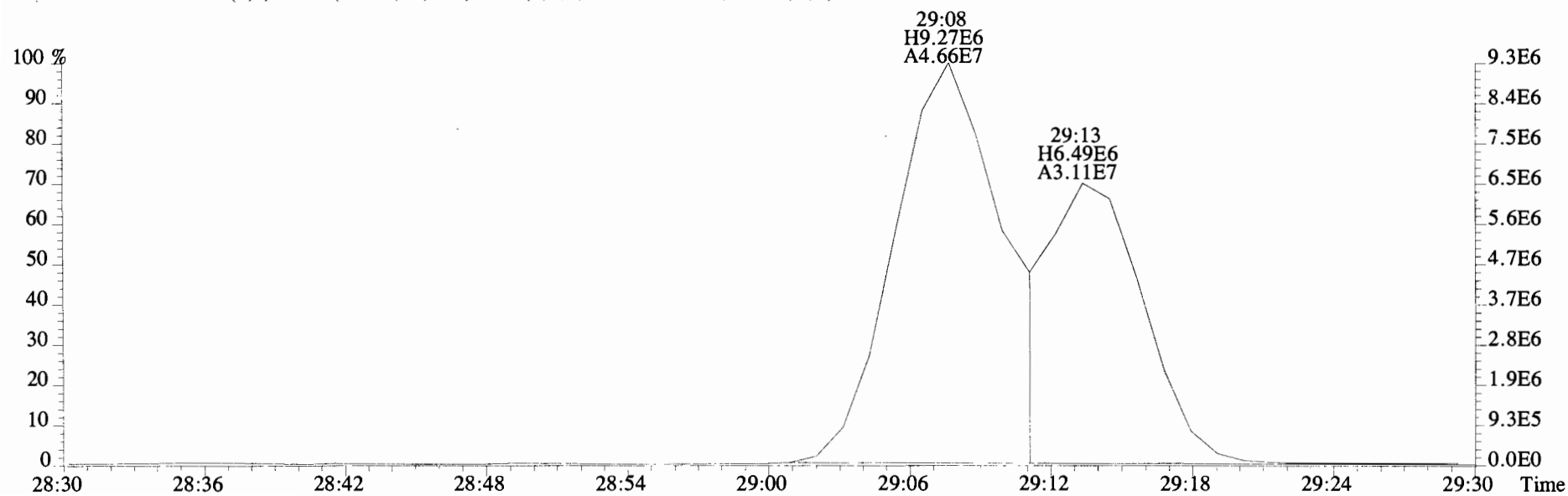
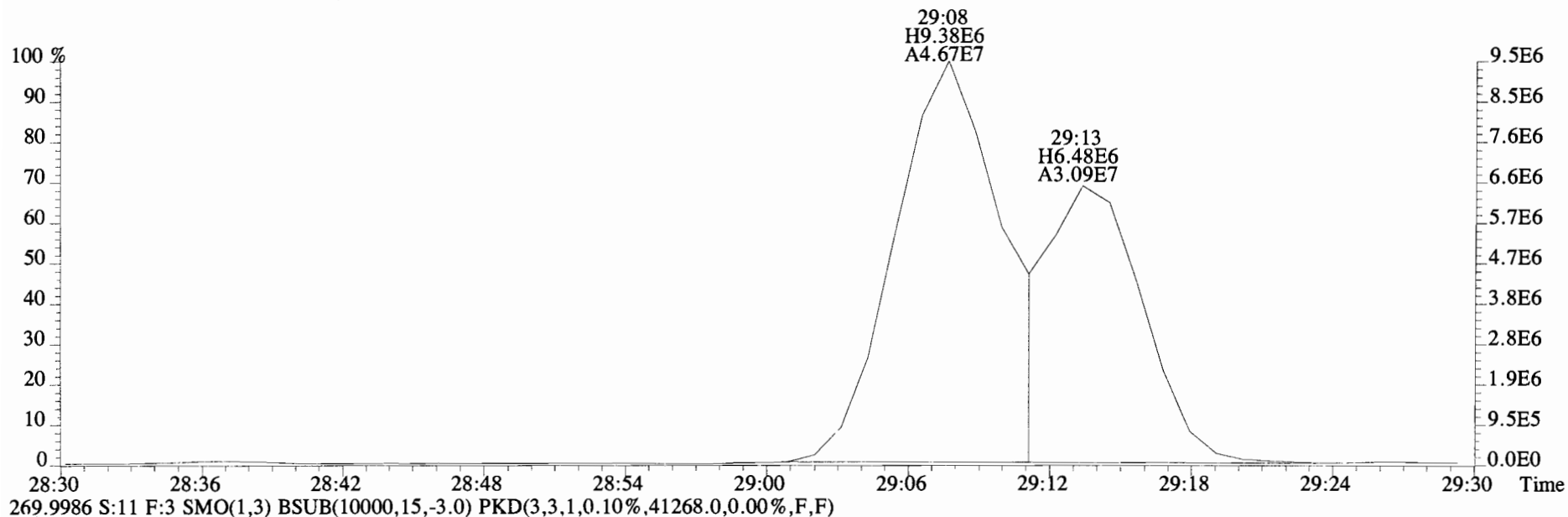
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
255.9613 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



257.9584 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3716.0,0.00%,F,F)

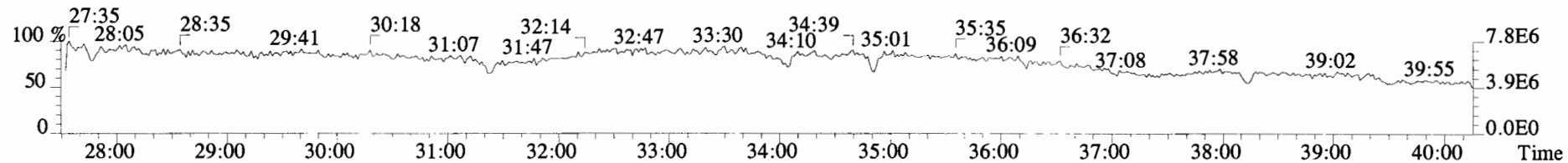
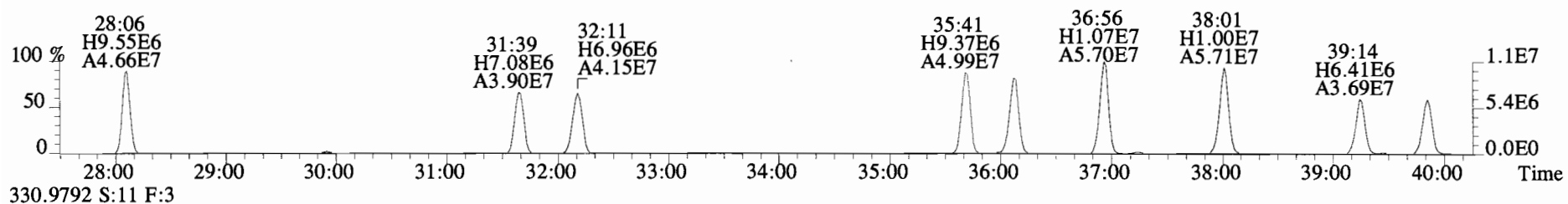
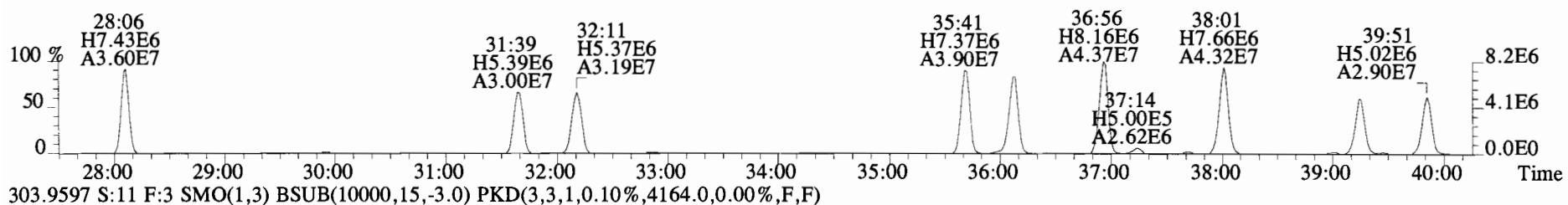
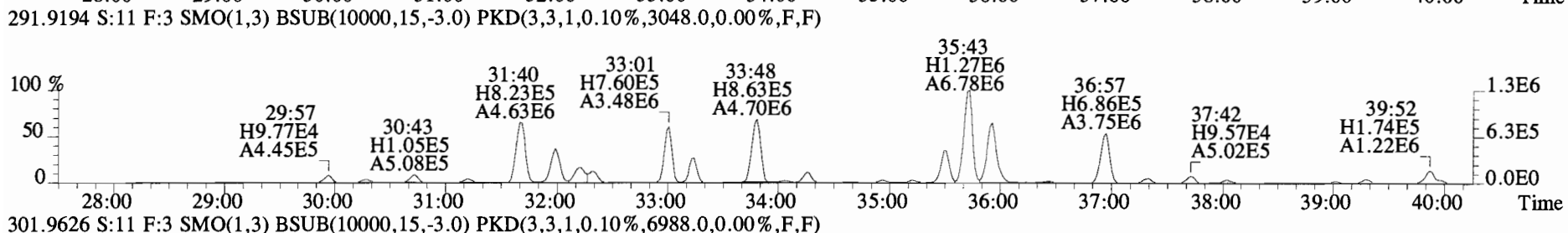
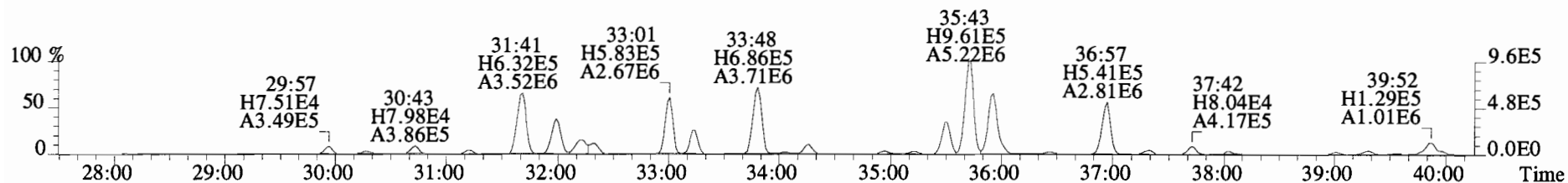


File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
268.0016 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64048.0,0.00%,F,F)

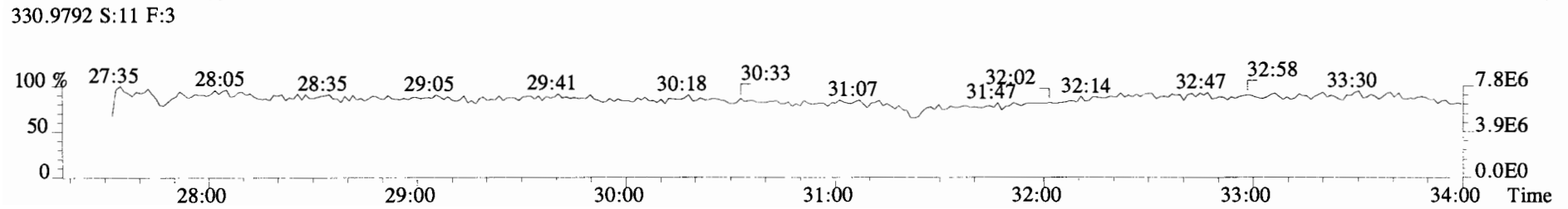
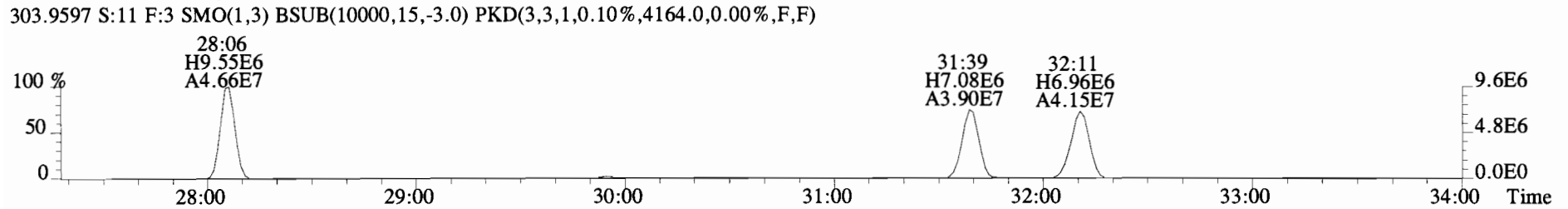
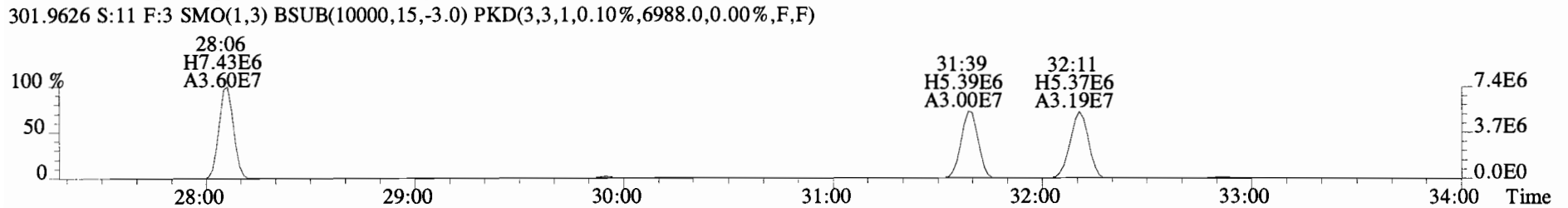
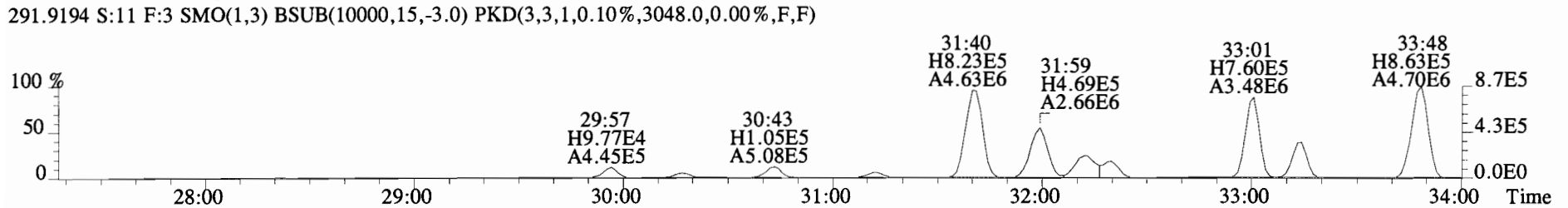
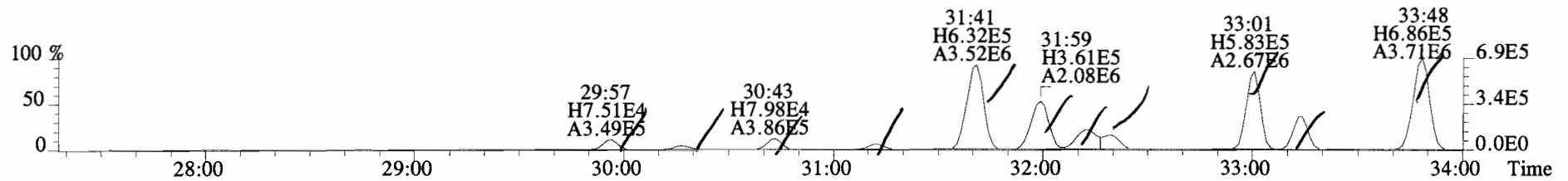




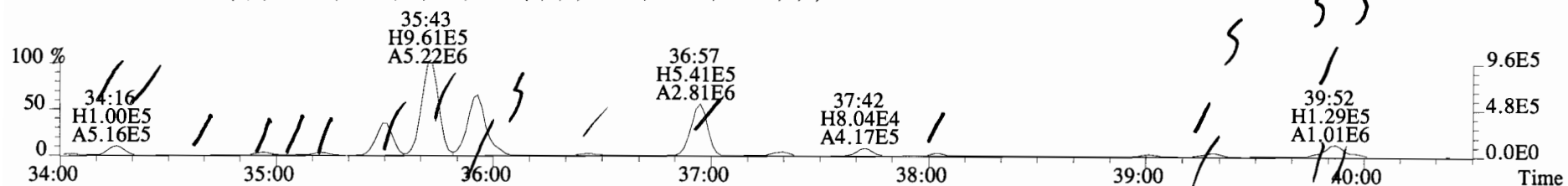
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



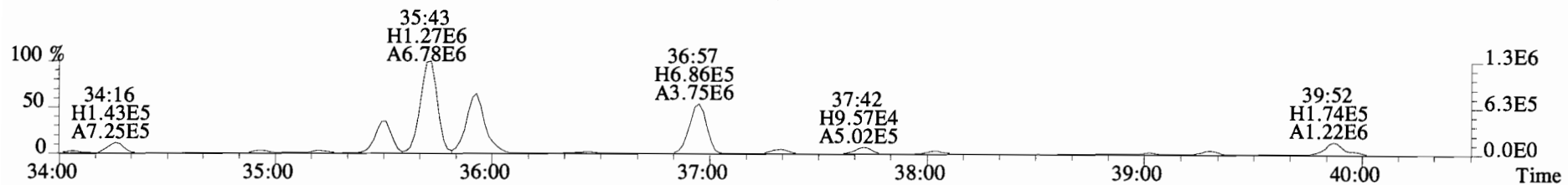
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



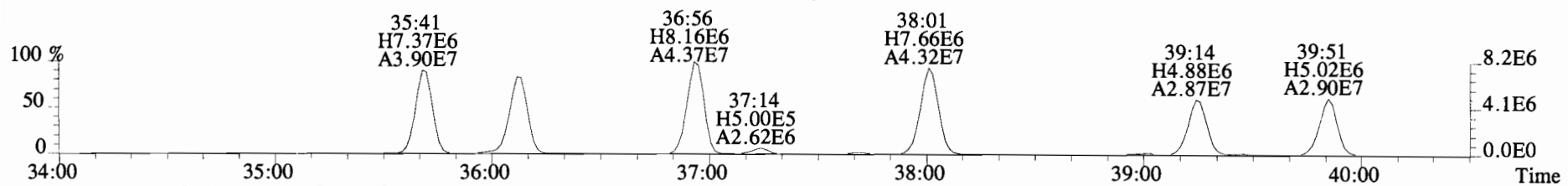
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



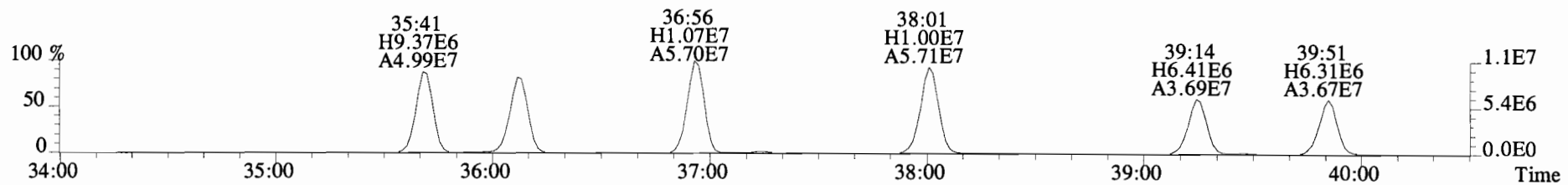
291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3048.0,0.00%,F,F)



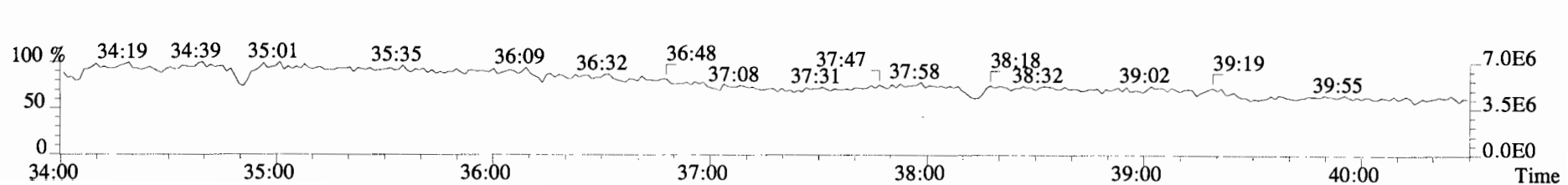
301.9626 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6988.0,0.00%,F,F)



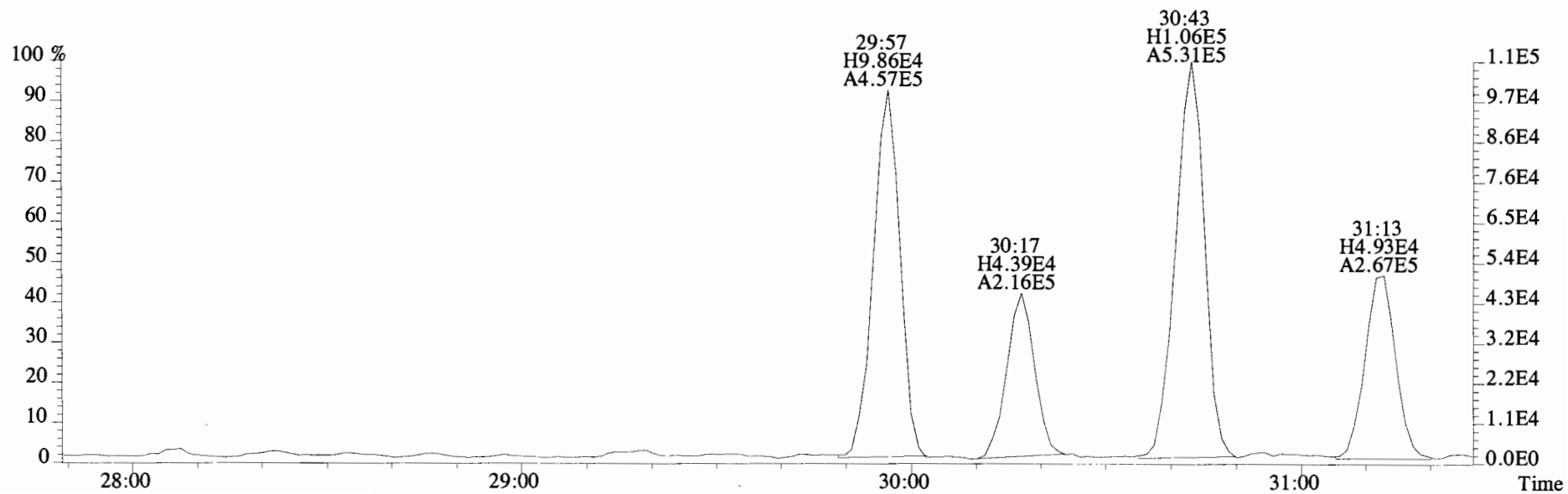
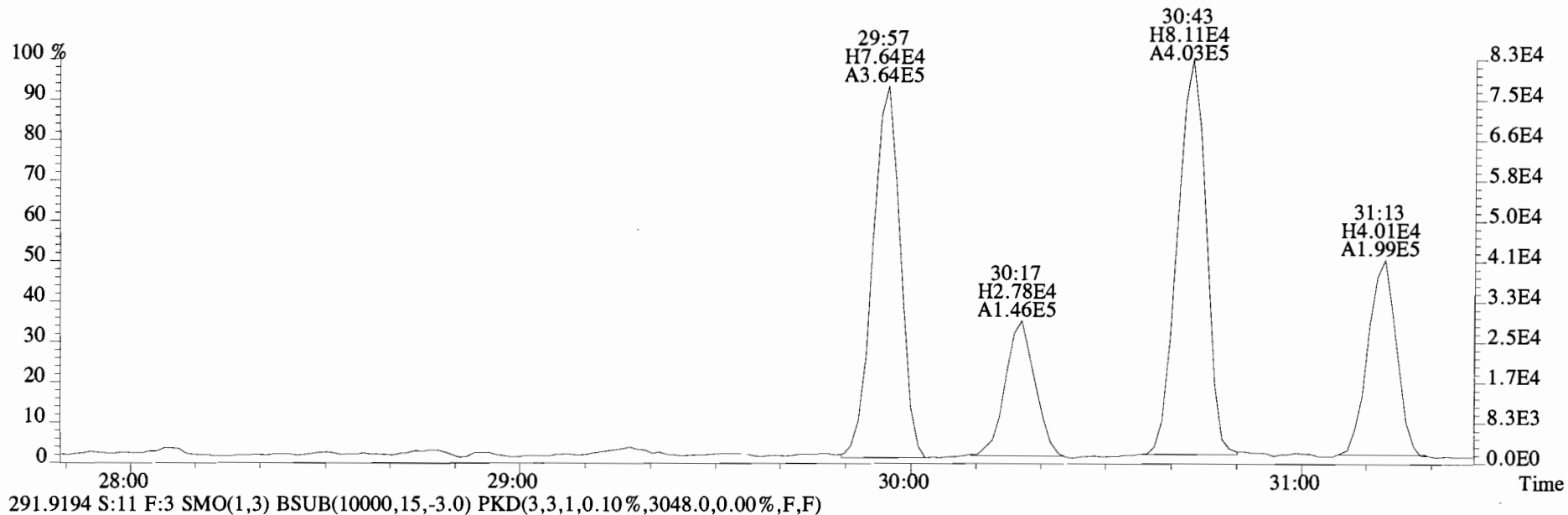
303.9597 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4164.0,0.00%,F,F)



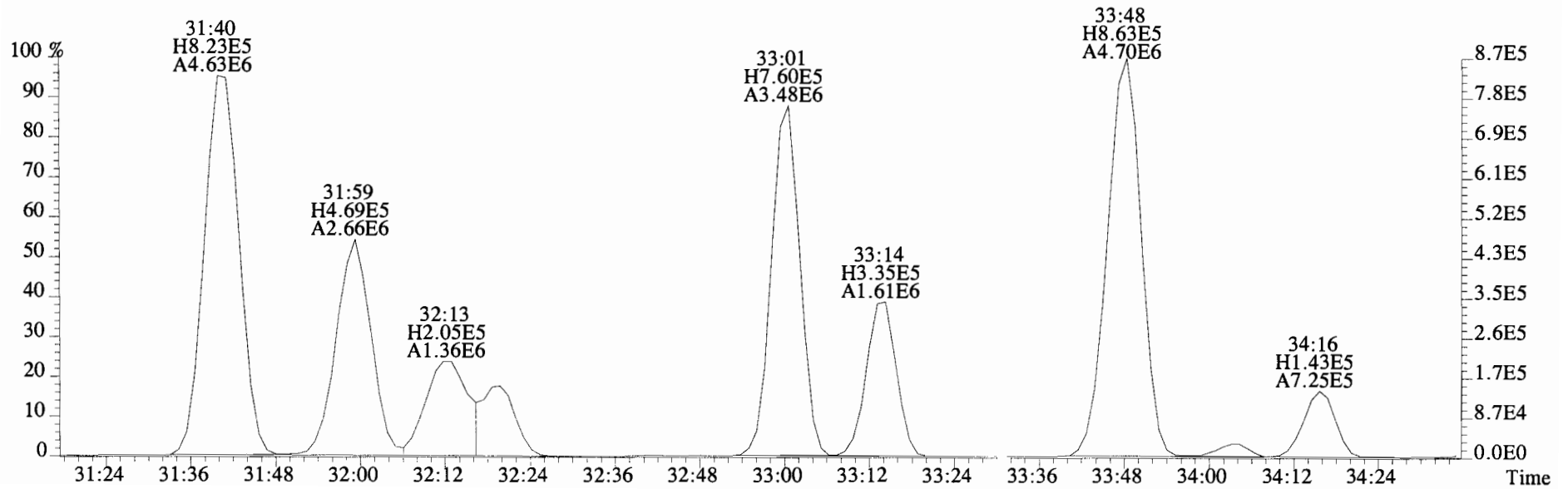
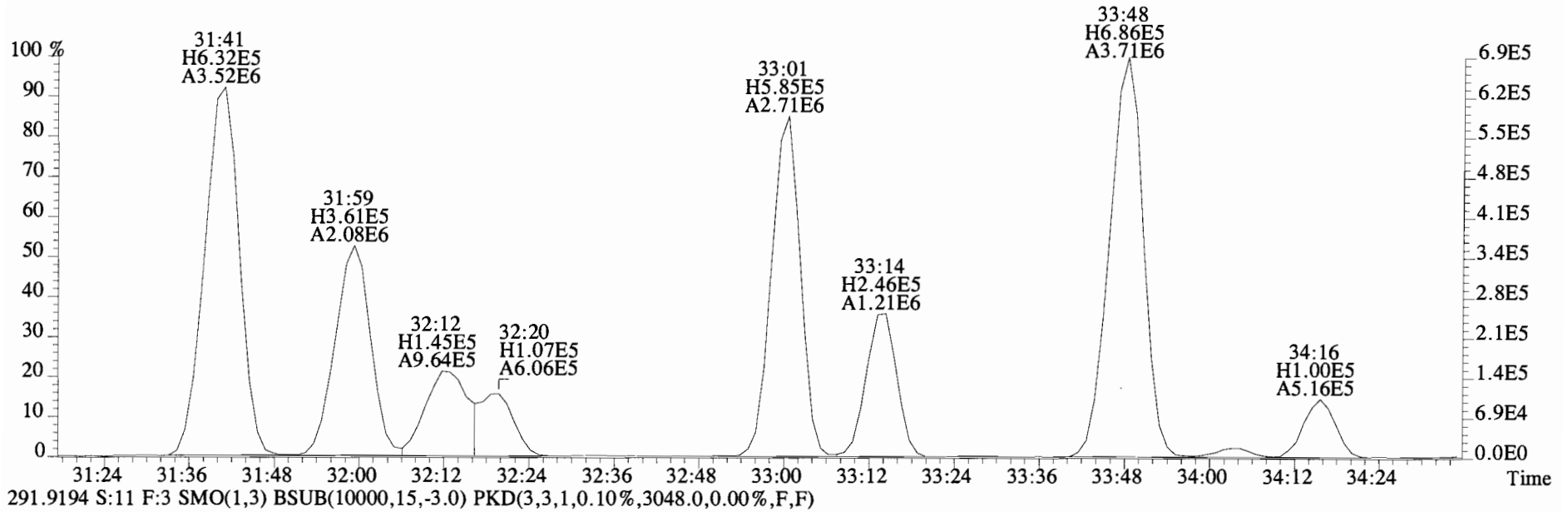
330.9792 S:11 F:3



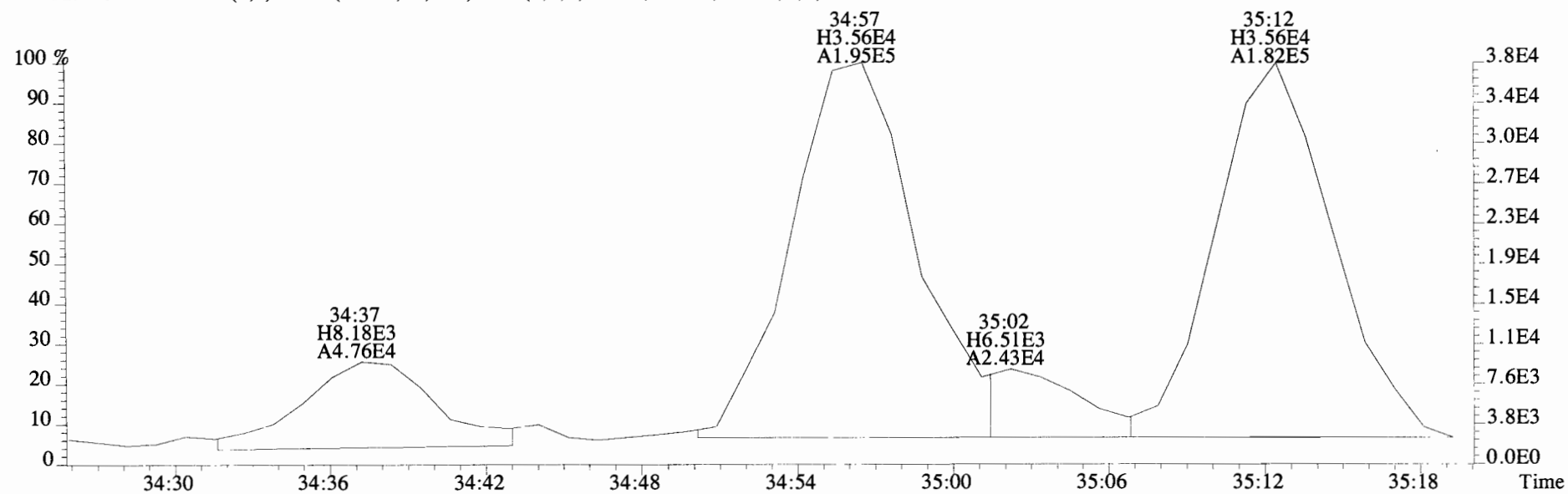
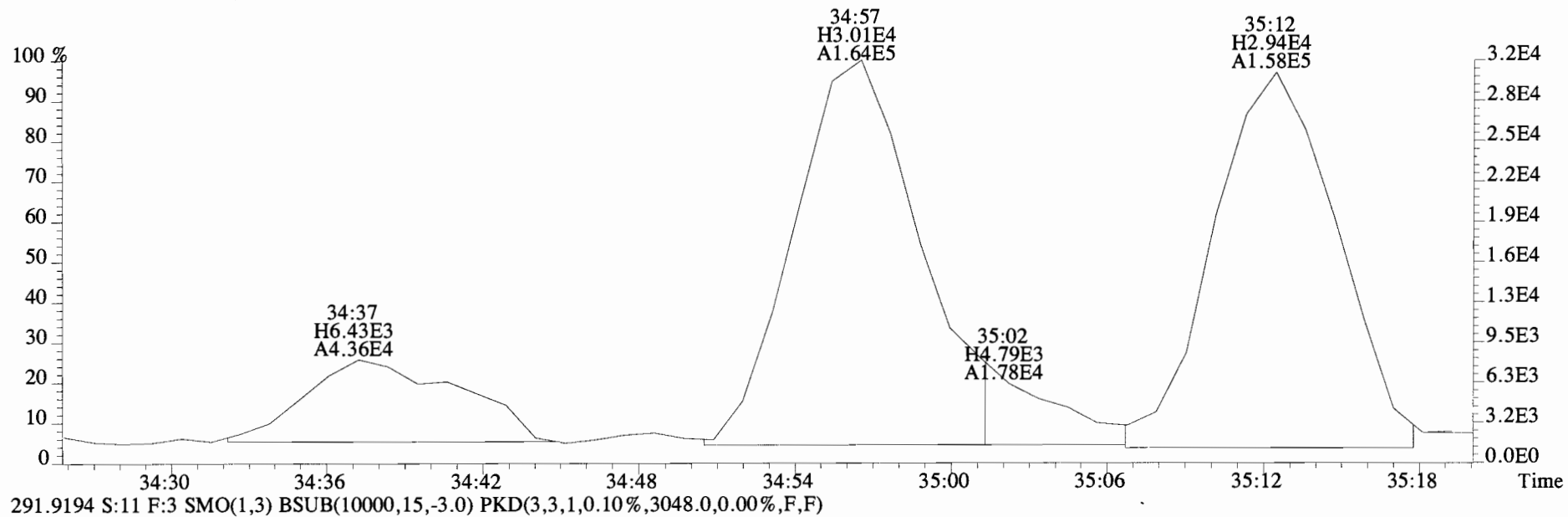
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



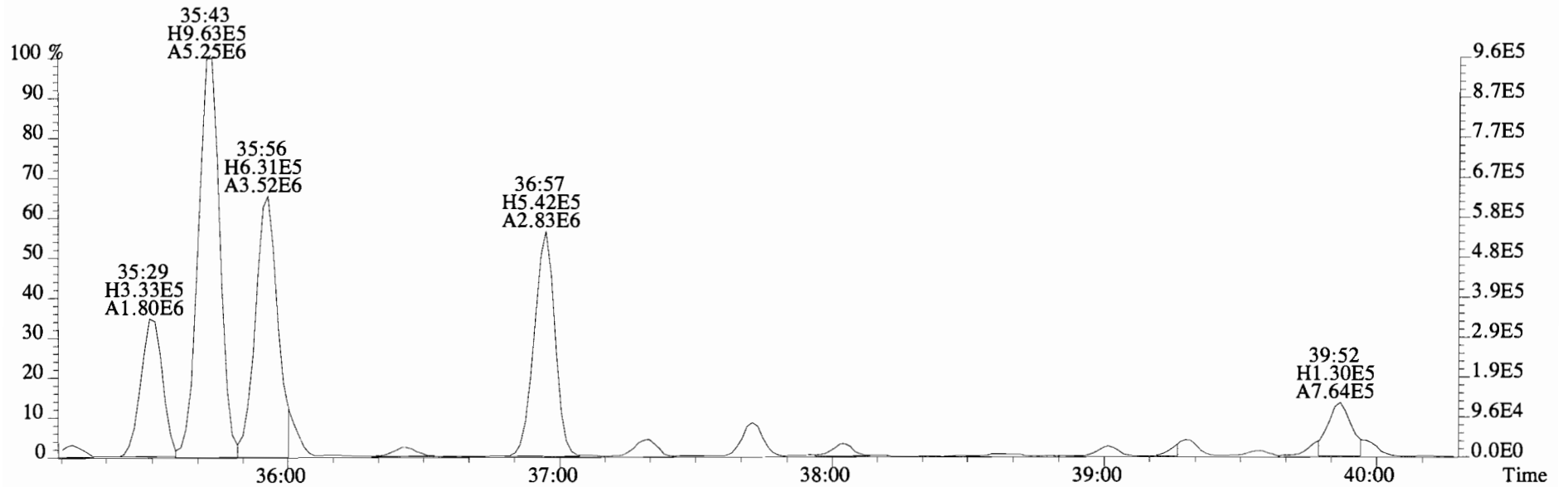
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



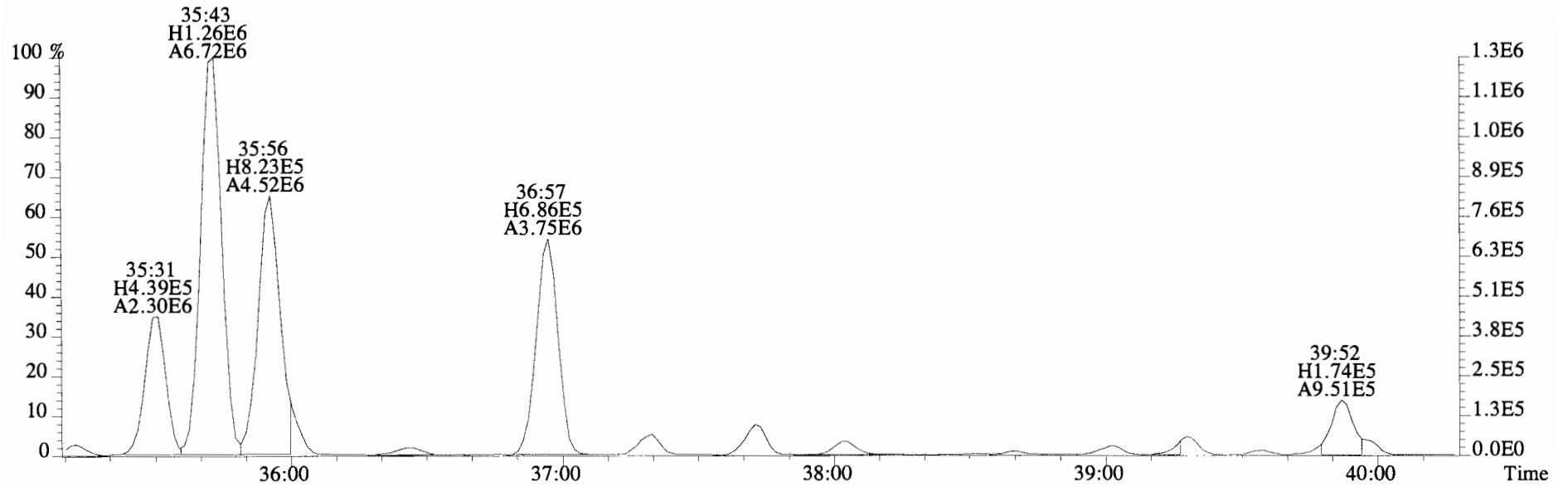
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



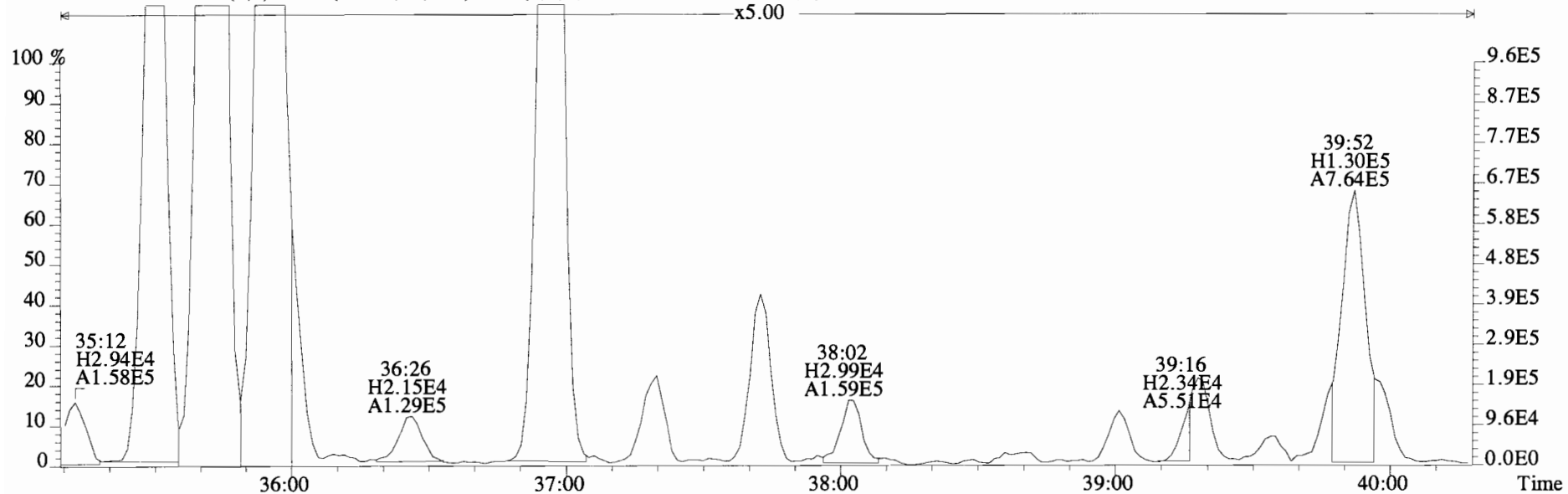
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



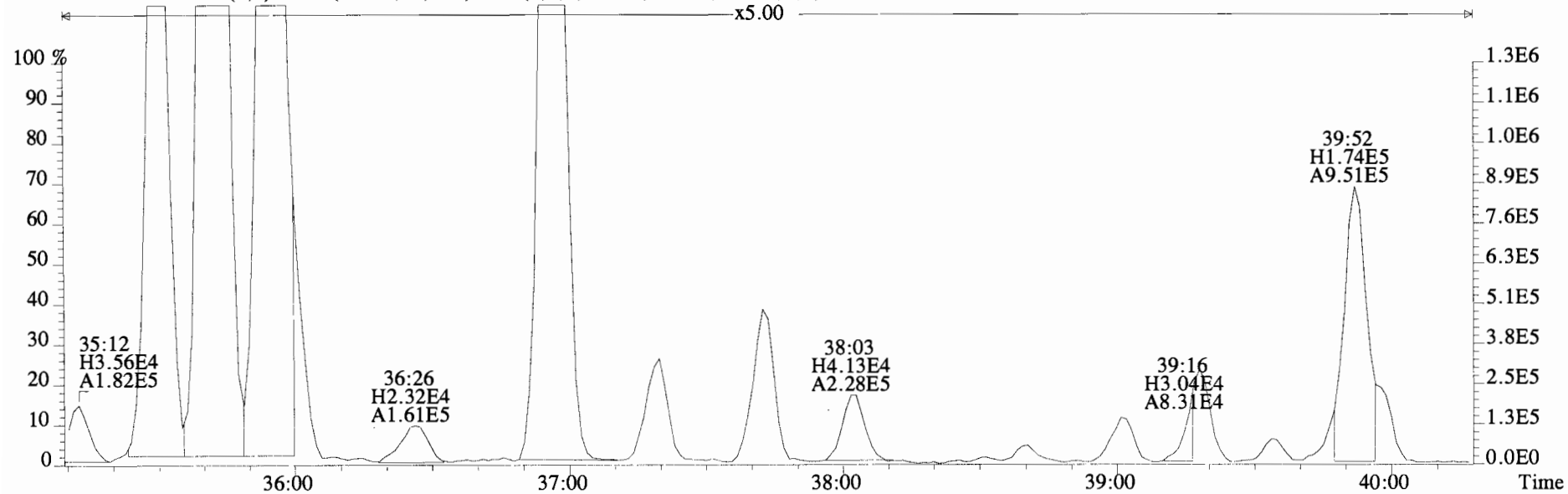
291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3048.0,0.00%,F,F)



File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)

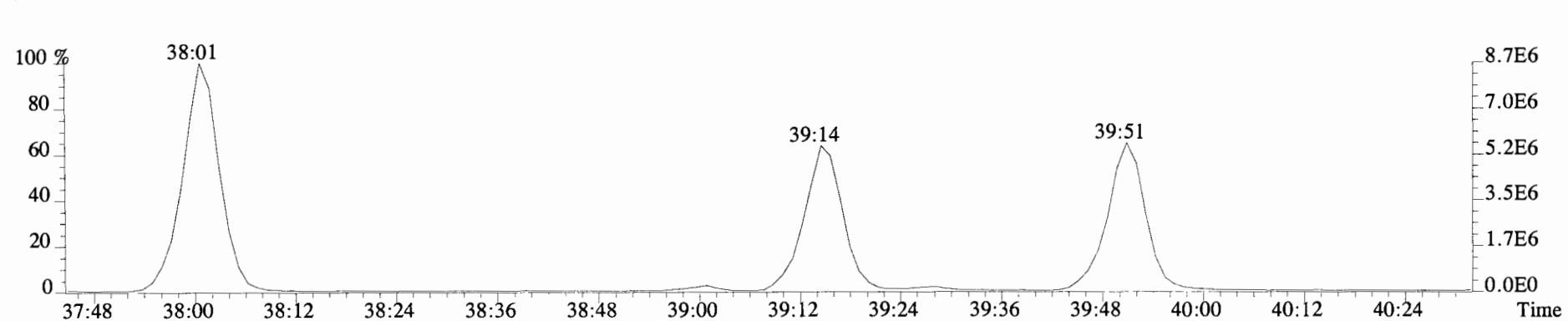
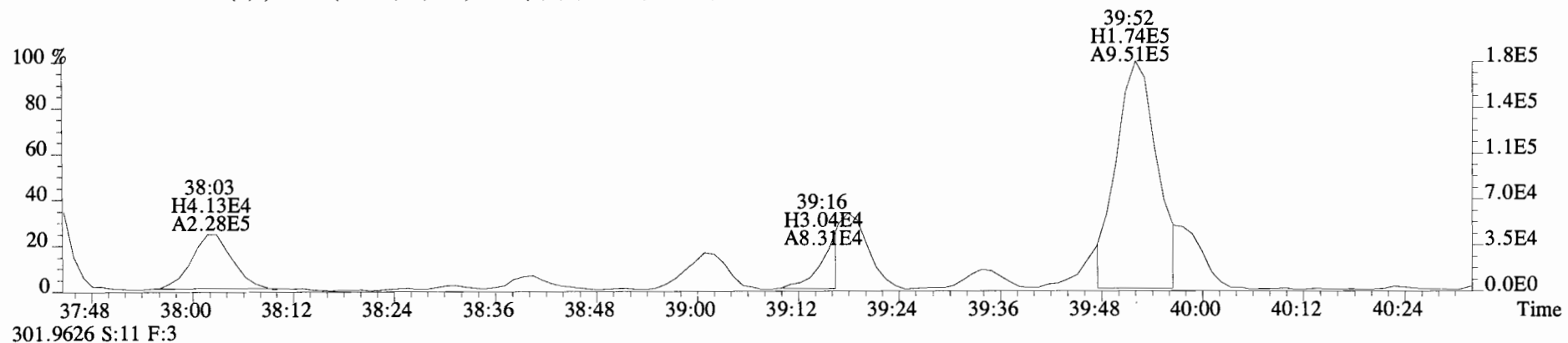
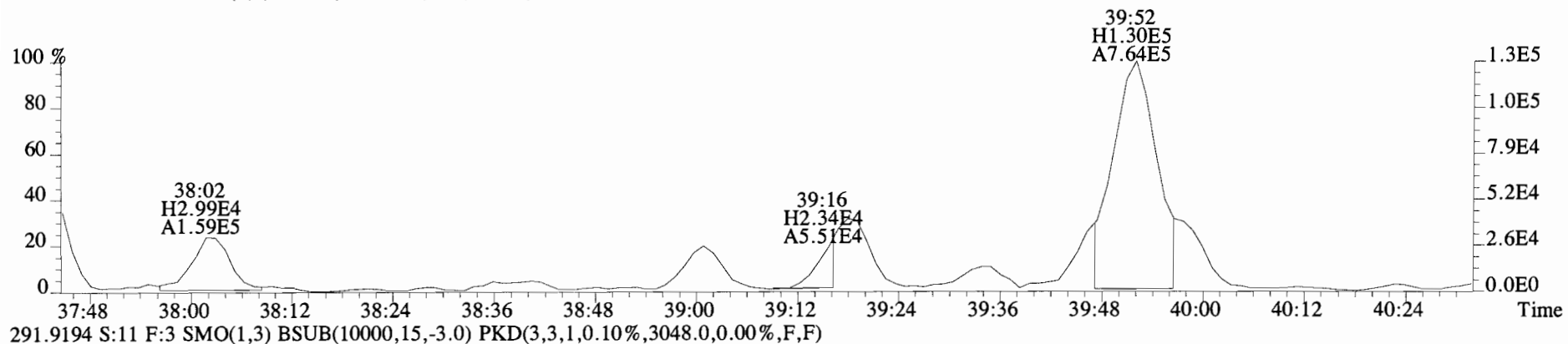


291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3048.0,0.00%,F,F)

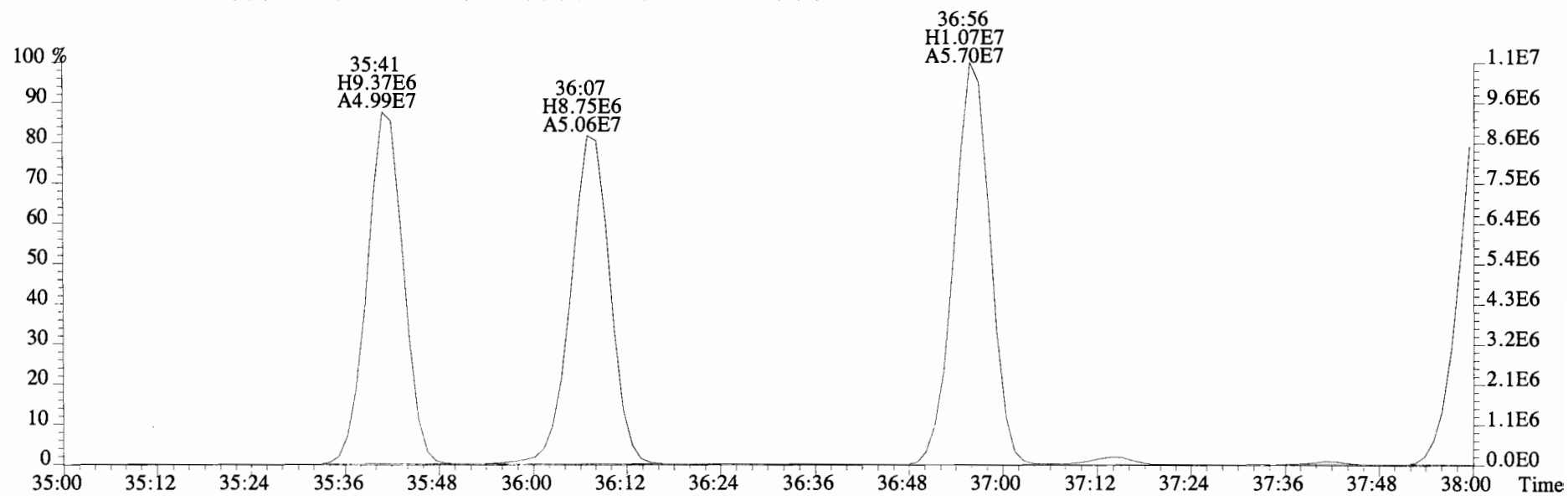
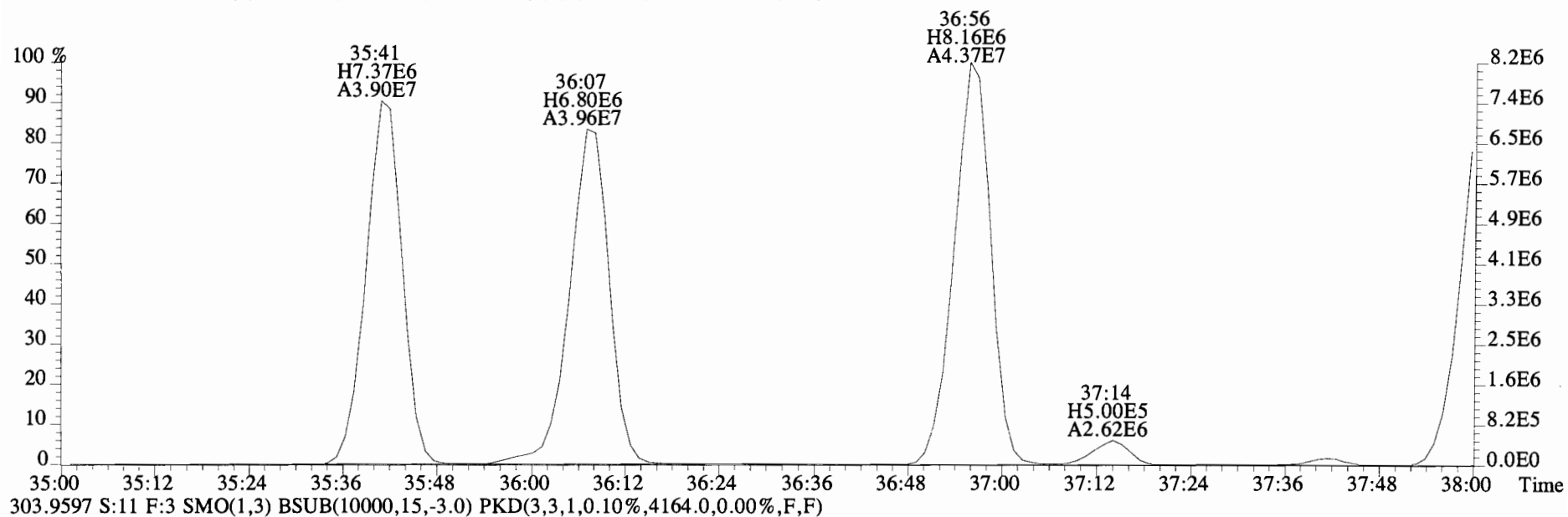




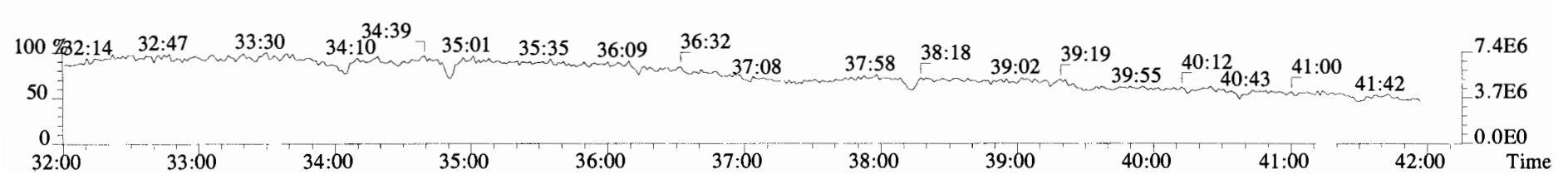
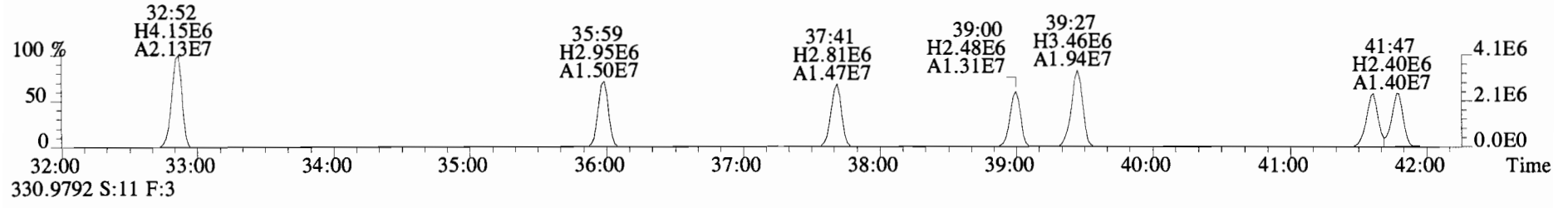
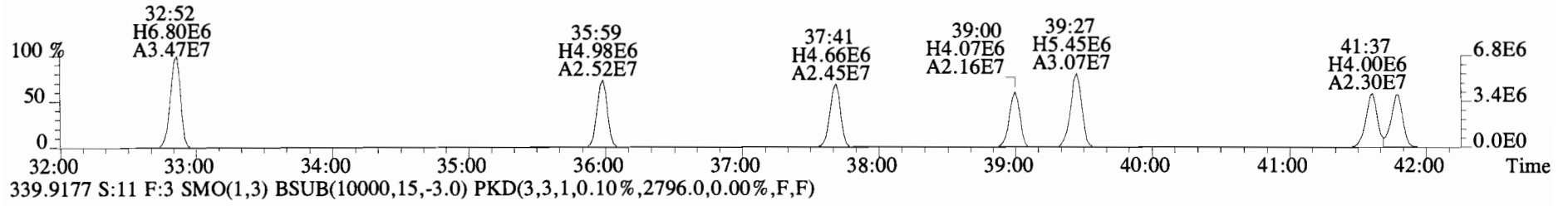
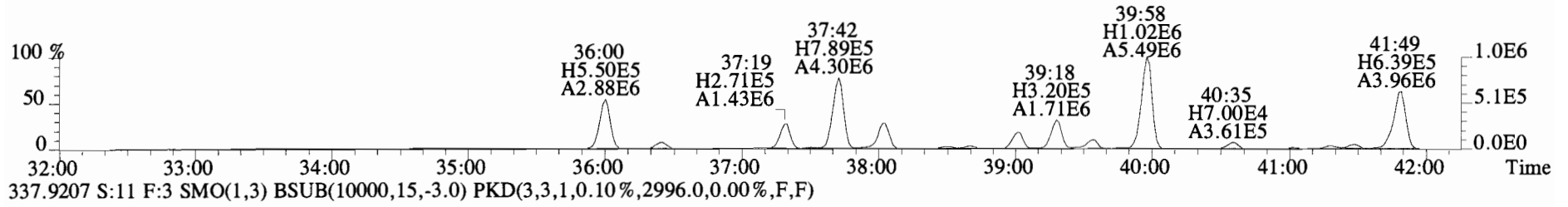
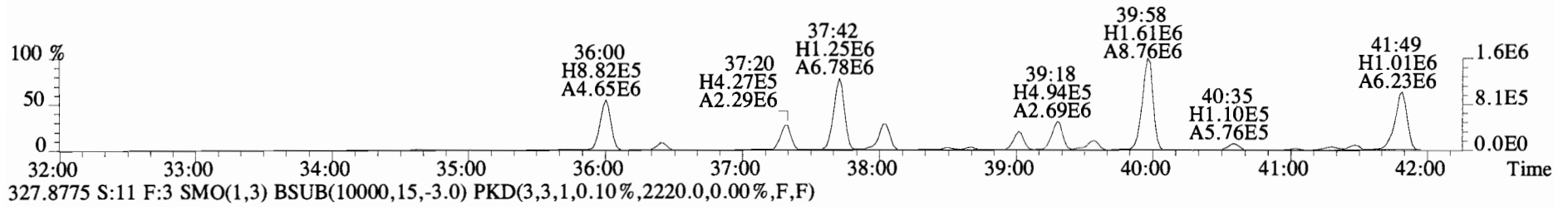
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



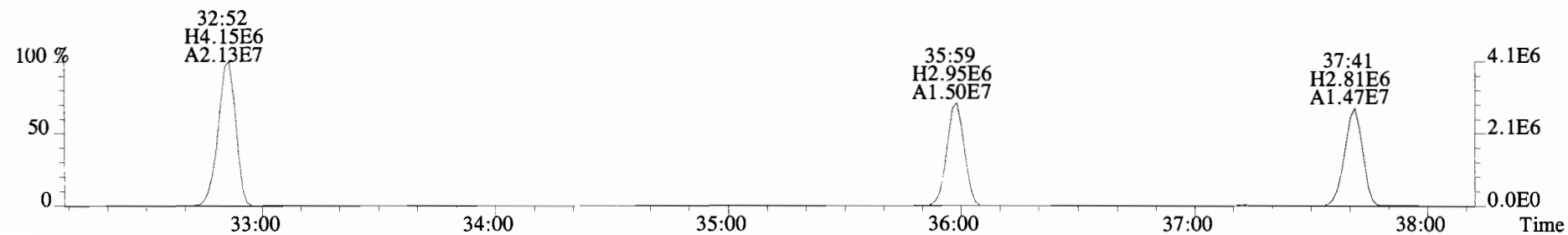
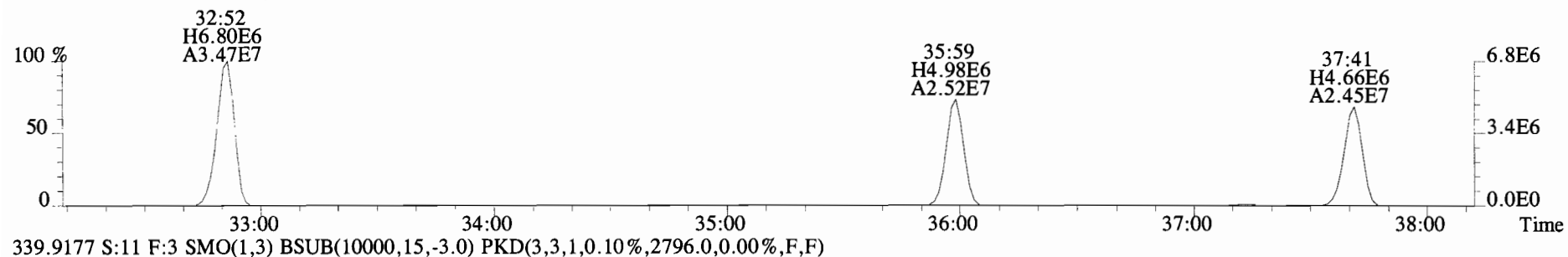
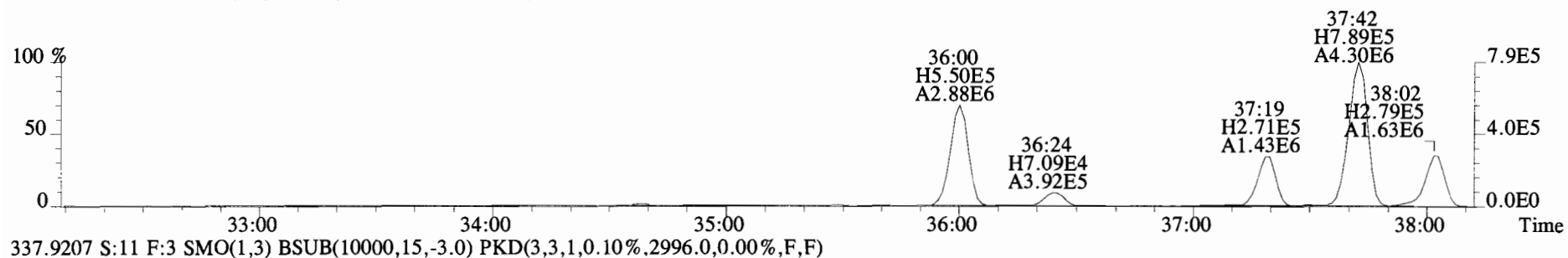
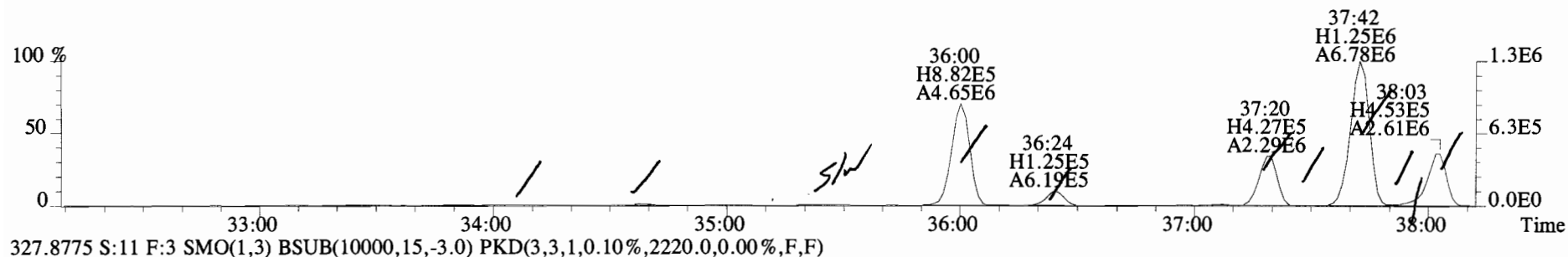
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
301.9626 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6988.0,0.00%,F,F)



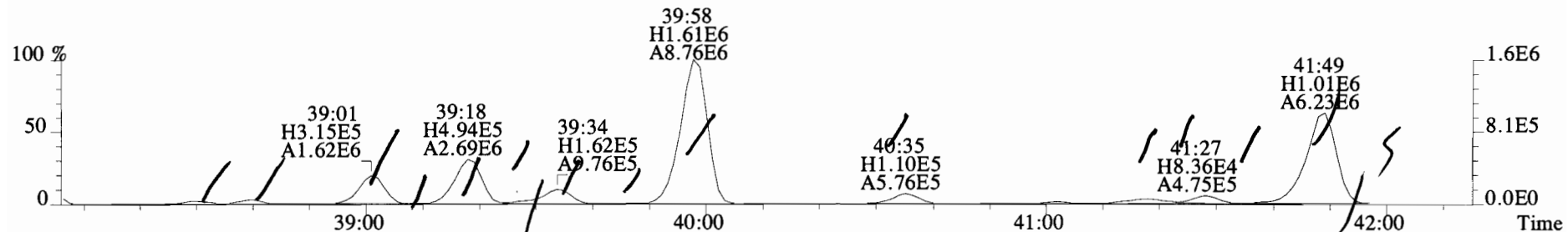
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2732.0,0.00%,F,F)



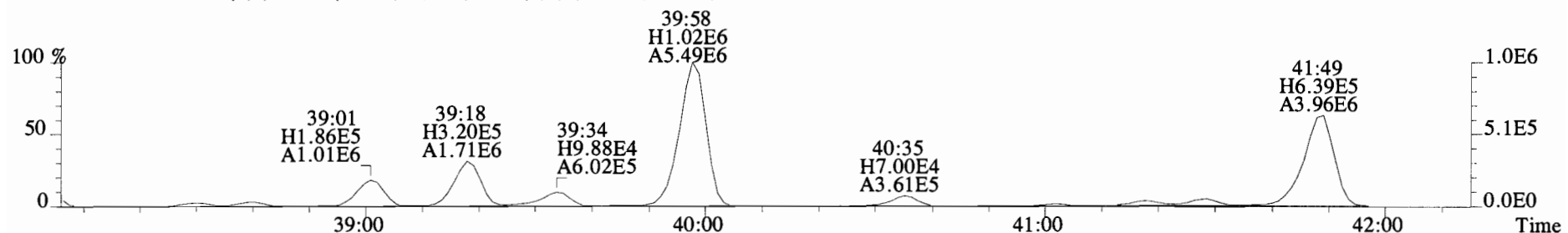
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2732.0,0.00%,F,F)



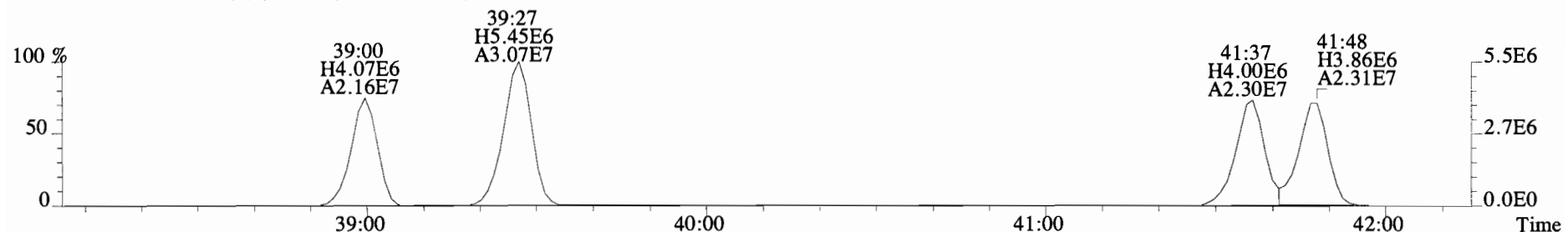
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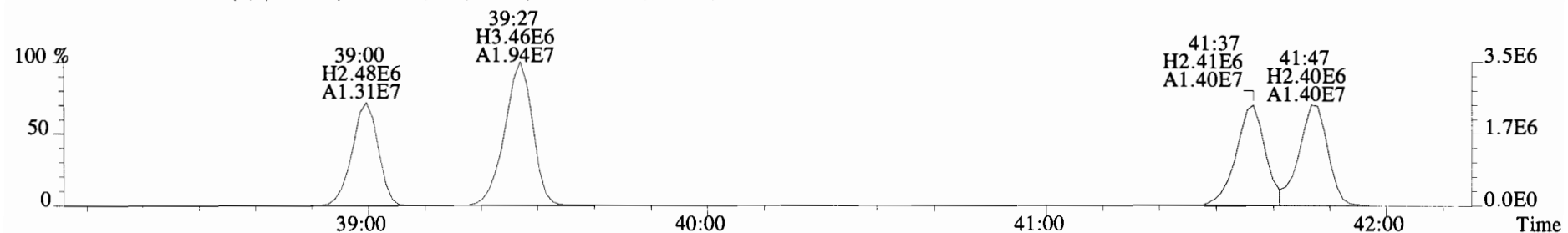
327.8775 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



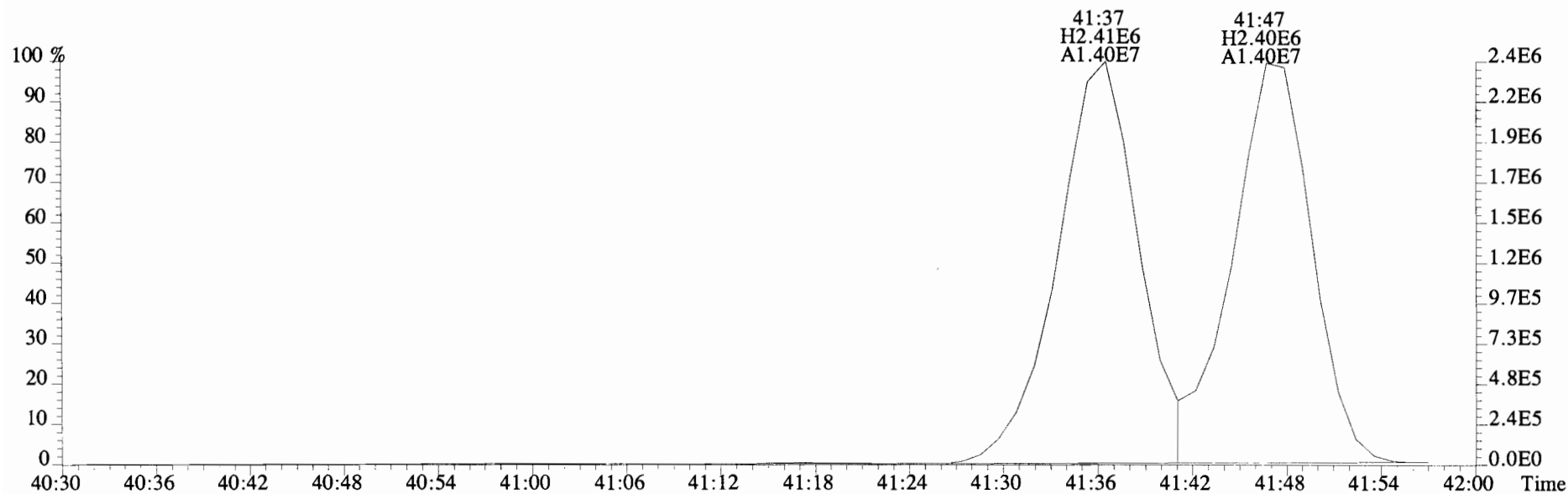
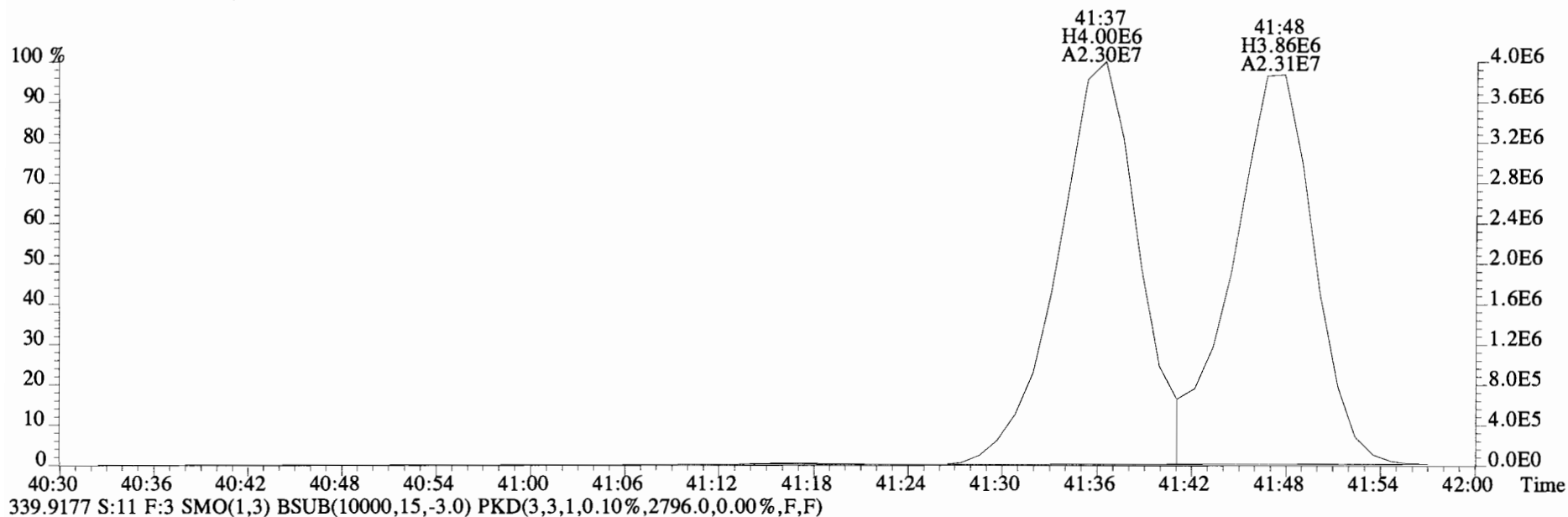
337.9207 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



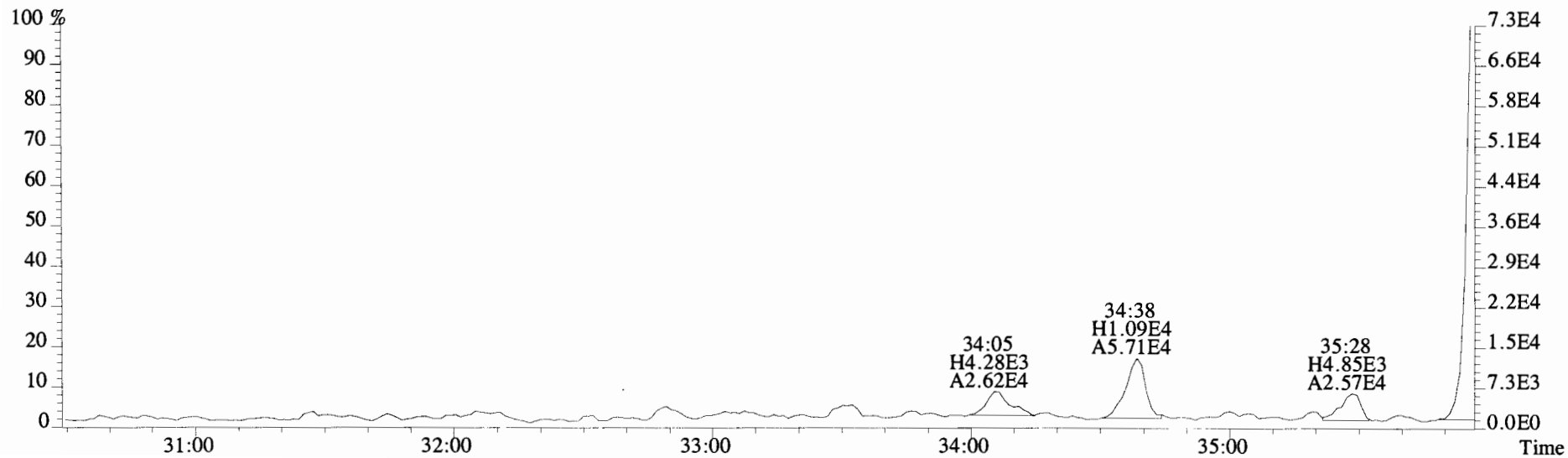
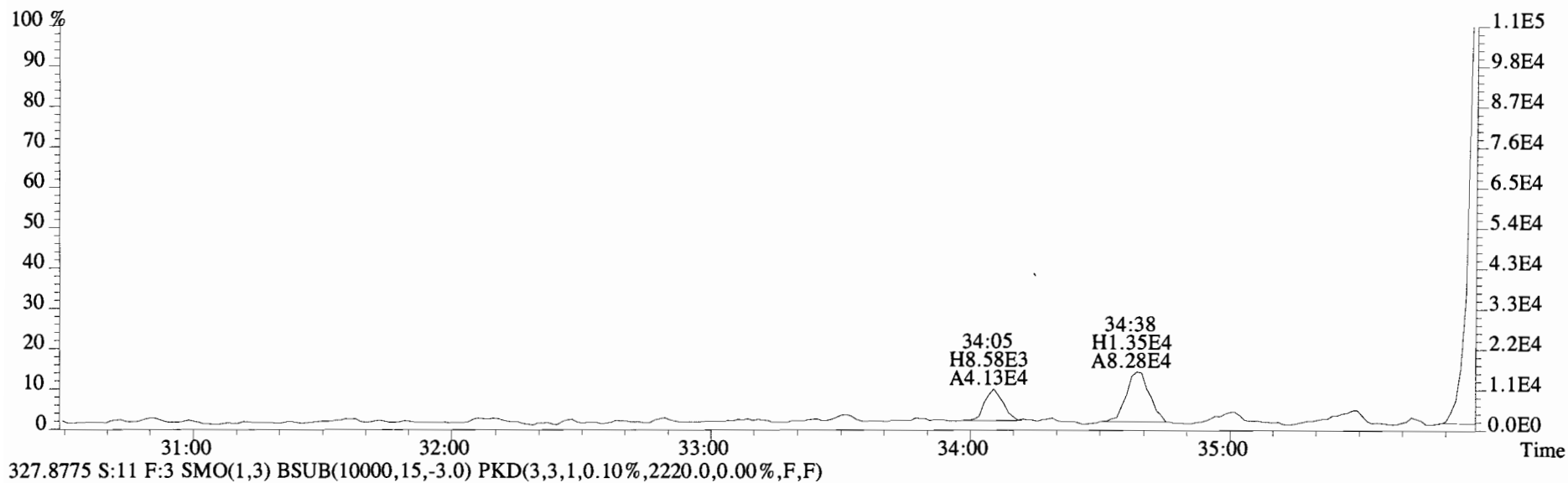
339.9177 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2796.0,0.00%,F,F)



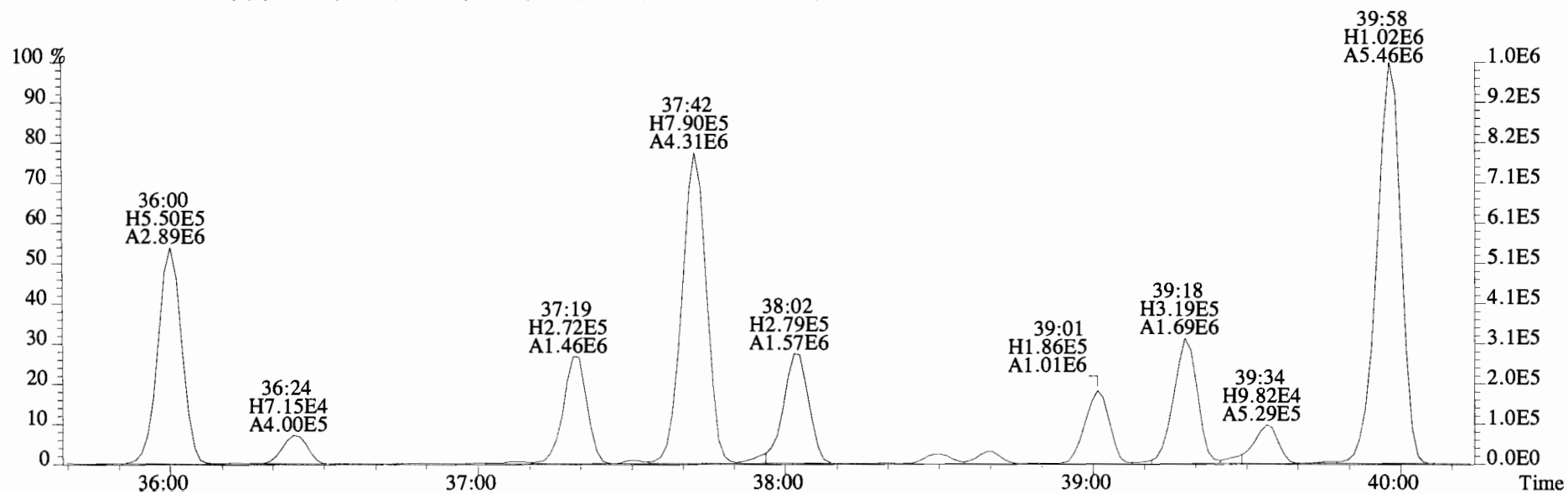
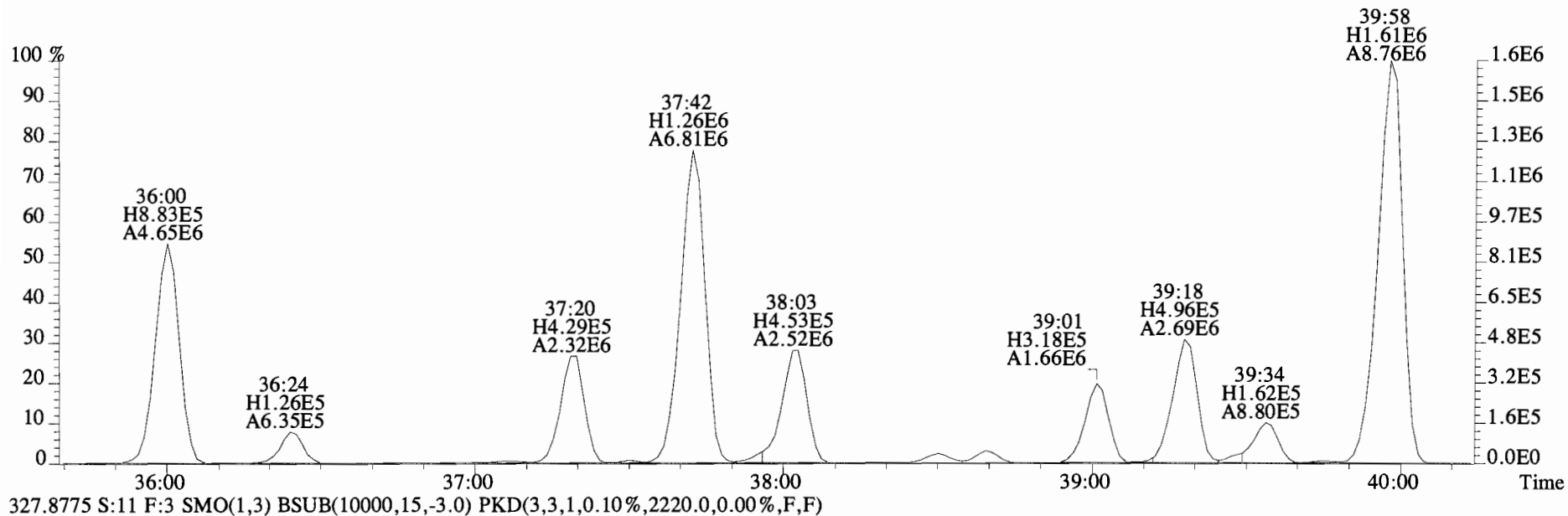
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
337.9207 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2996.0,0.00%,F,F)



File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
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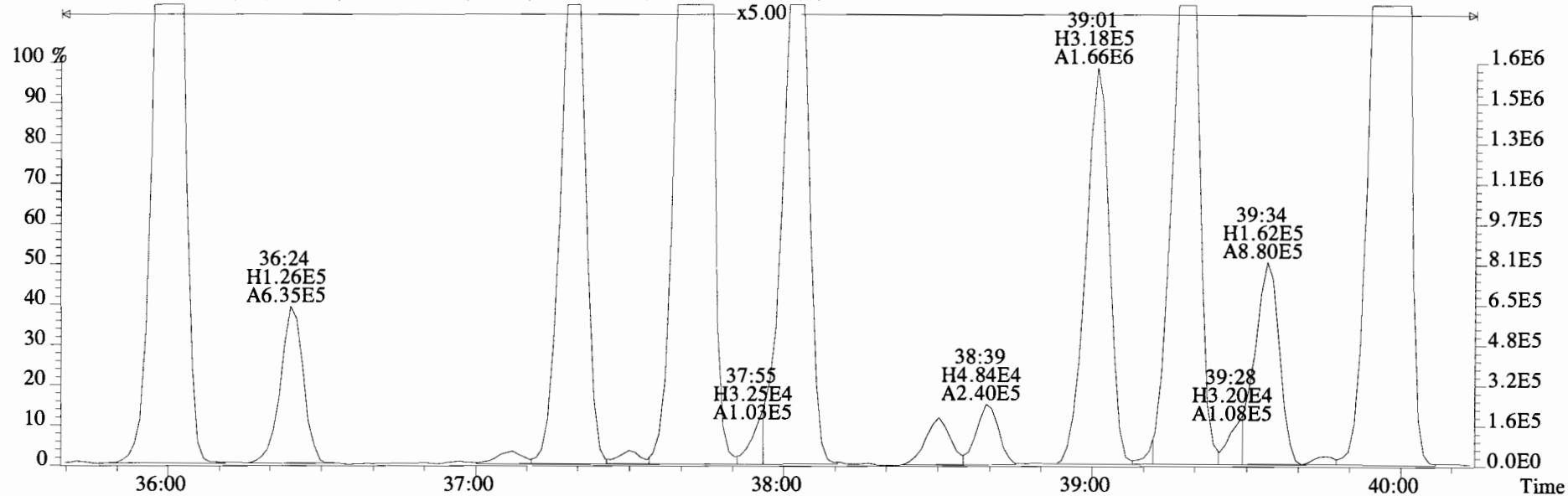


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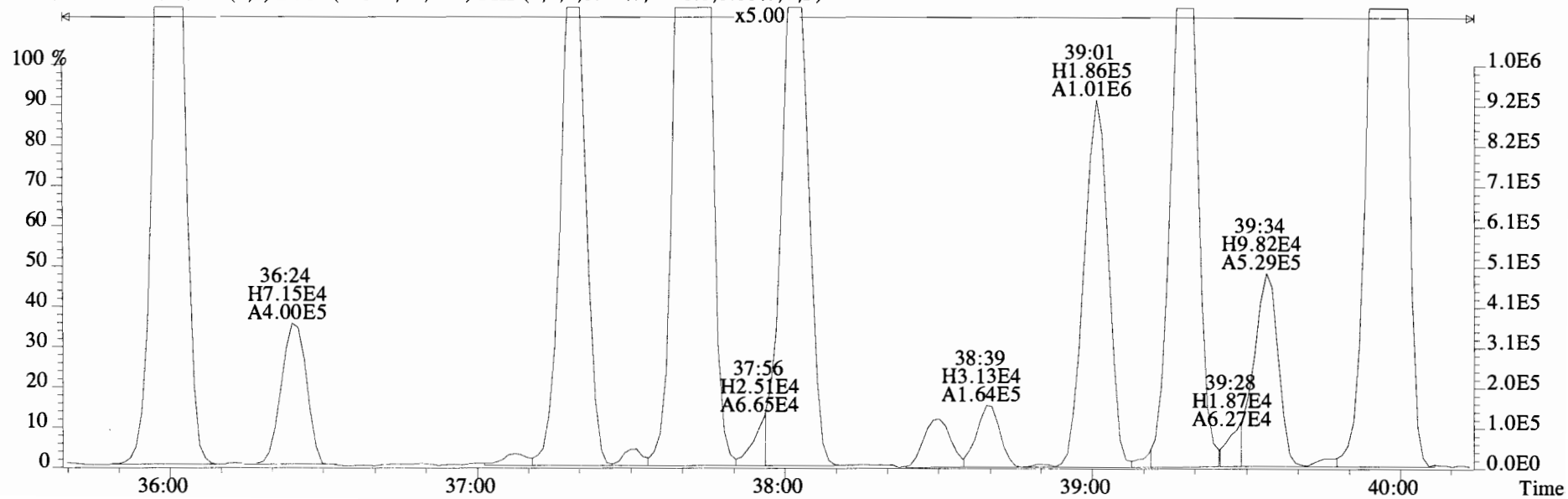




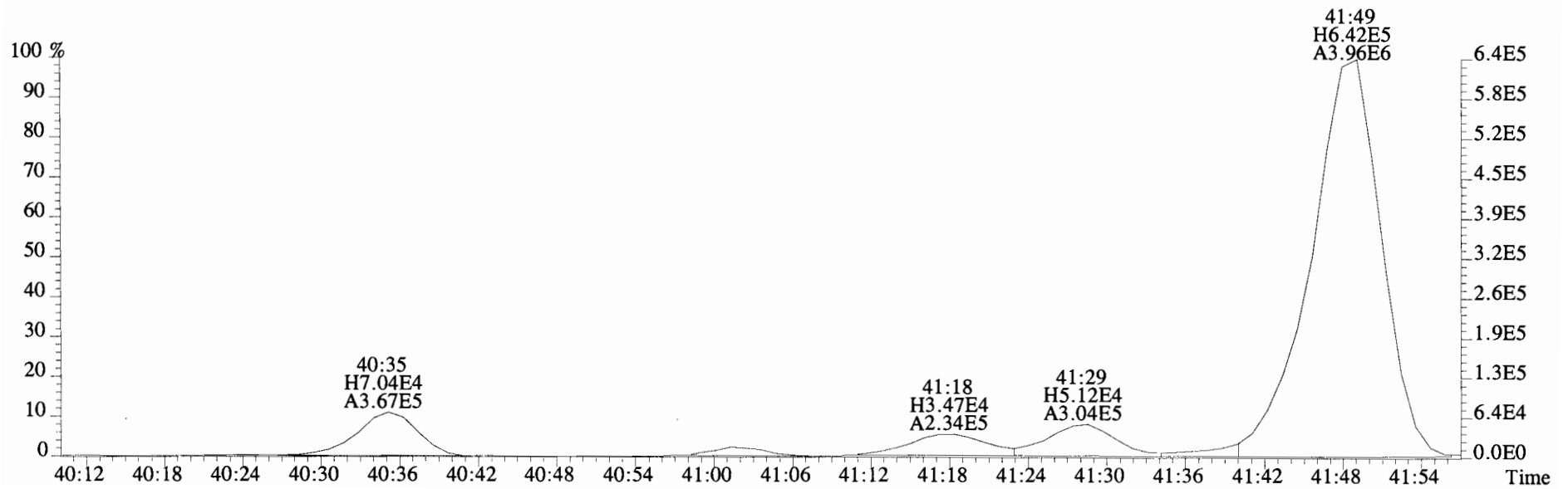
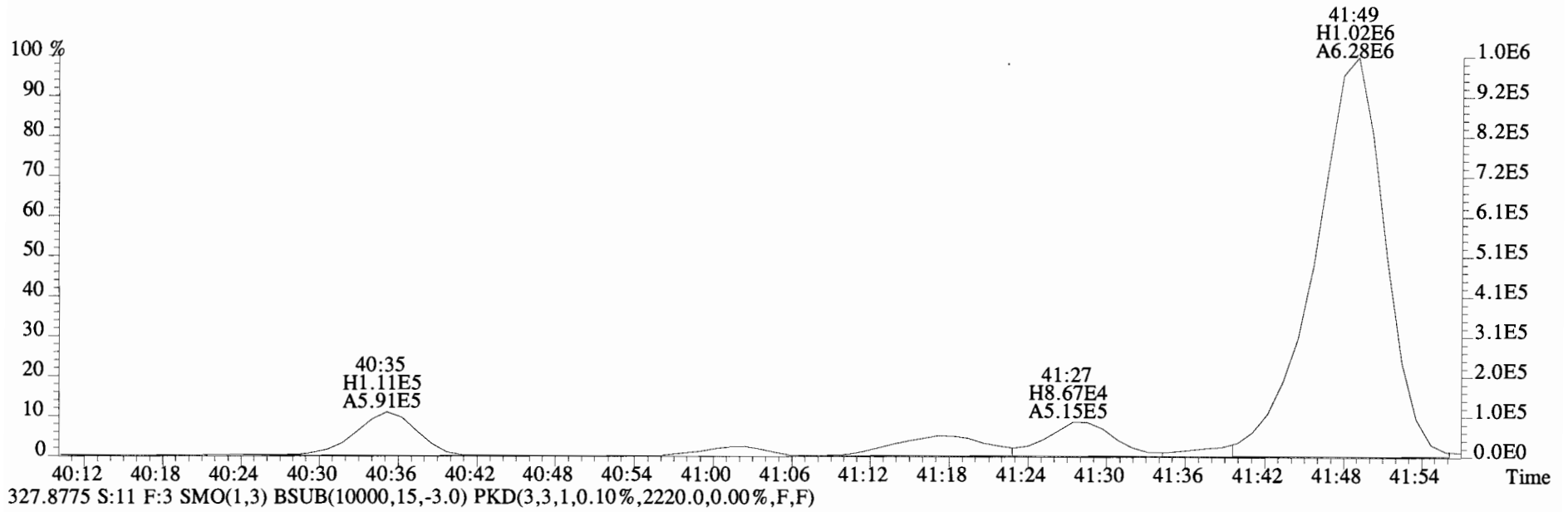
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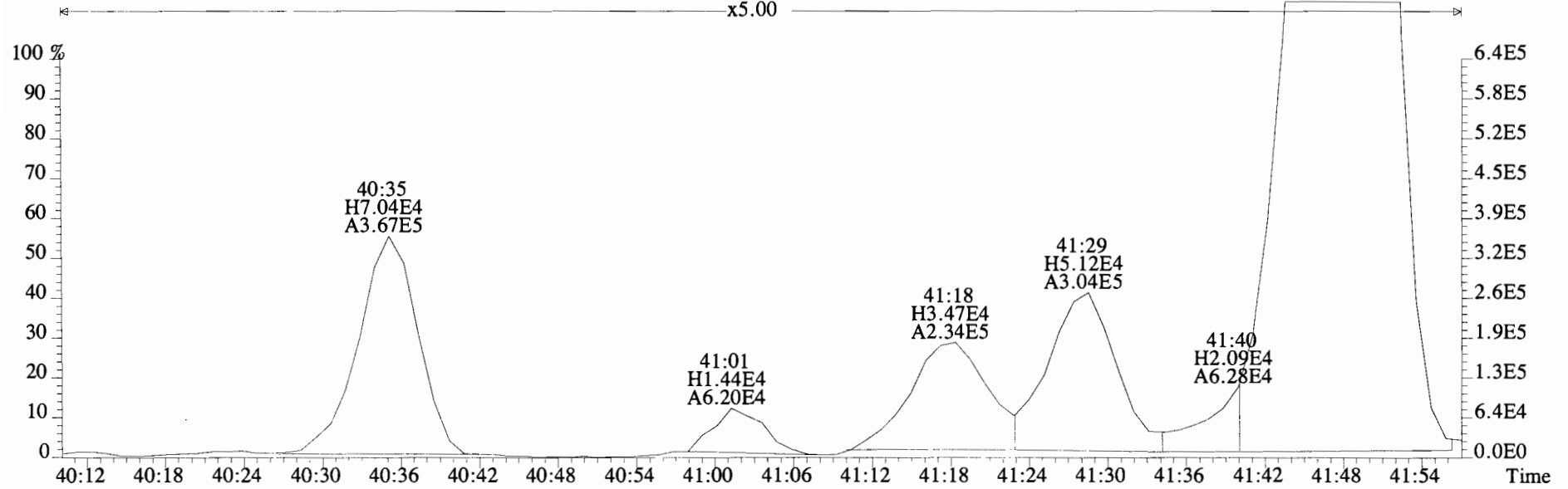
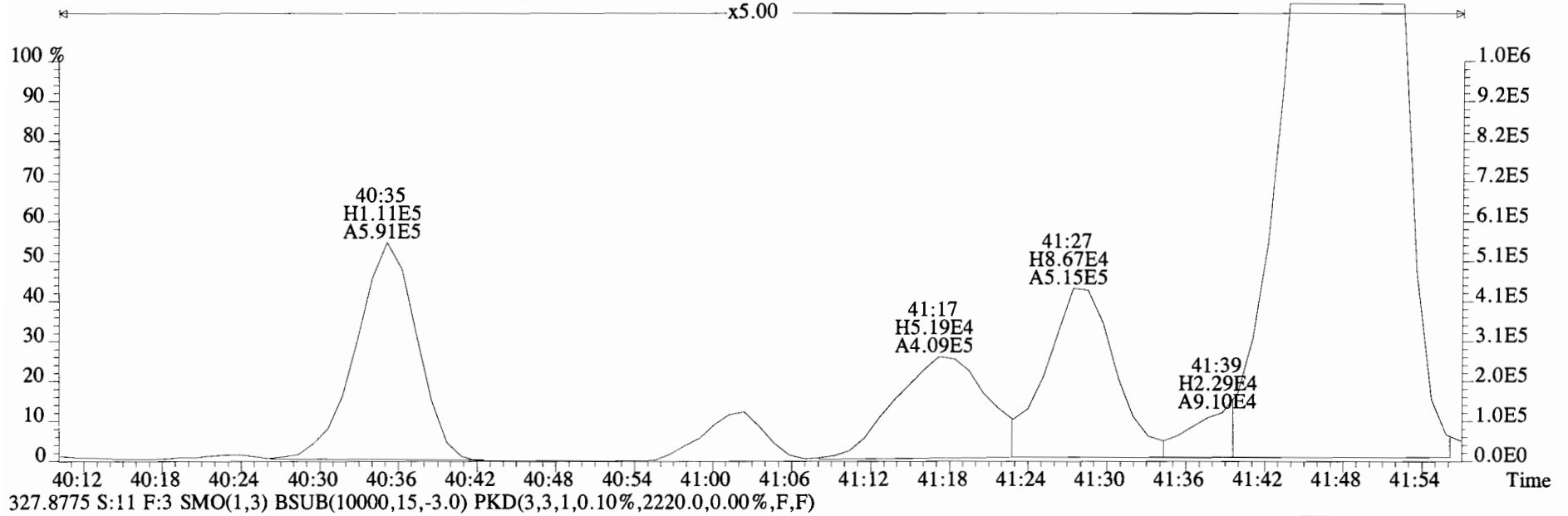
327.8775 S:11 F:3 SMO(1,3) BSub(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



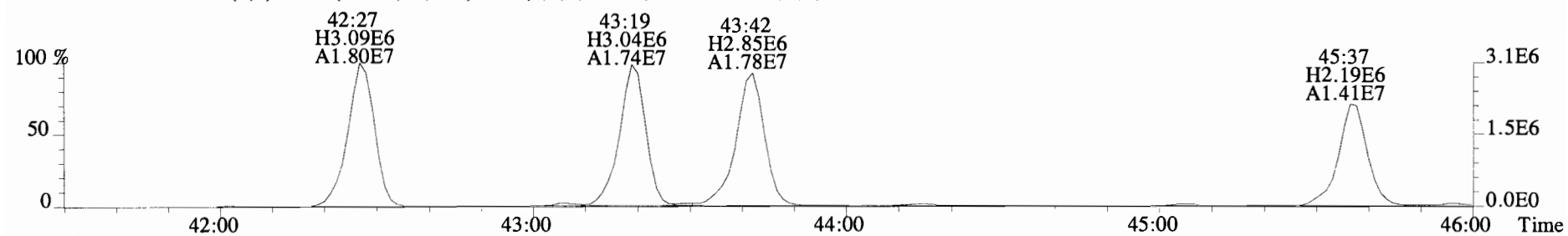
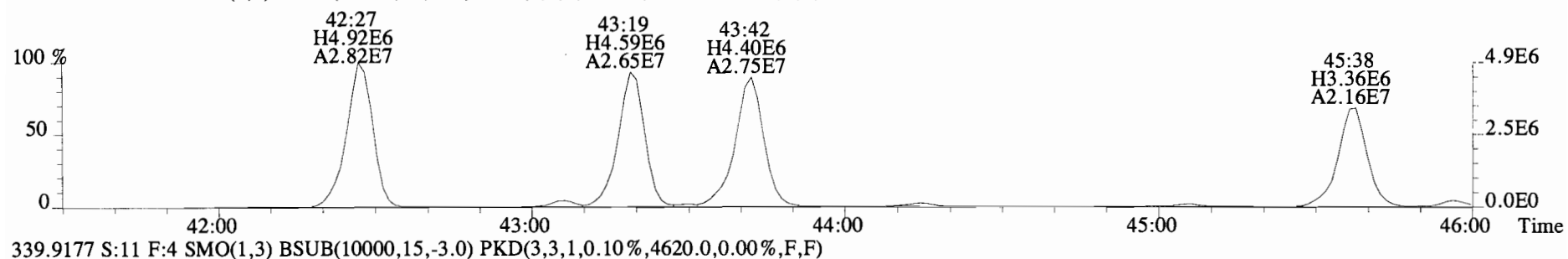
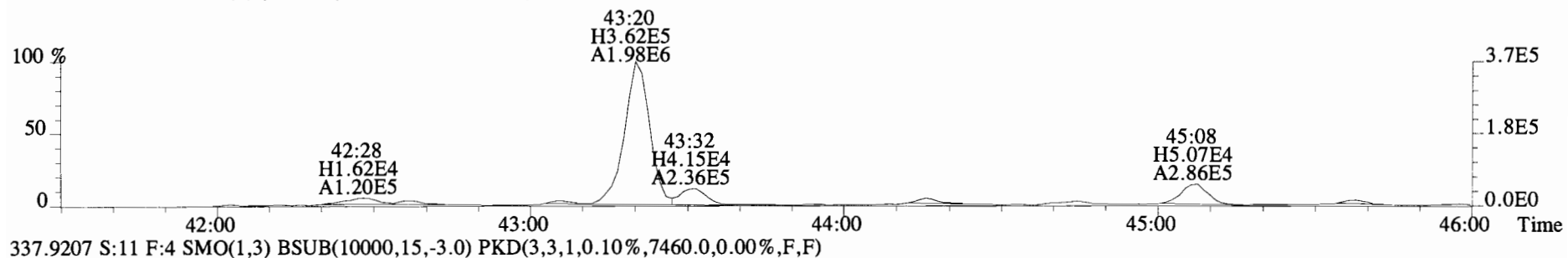
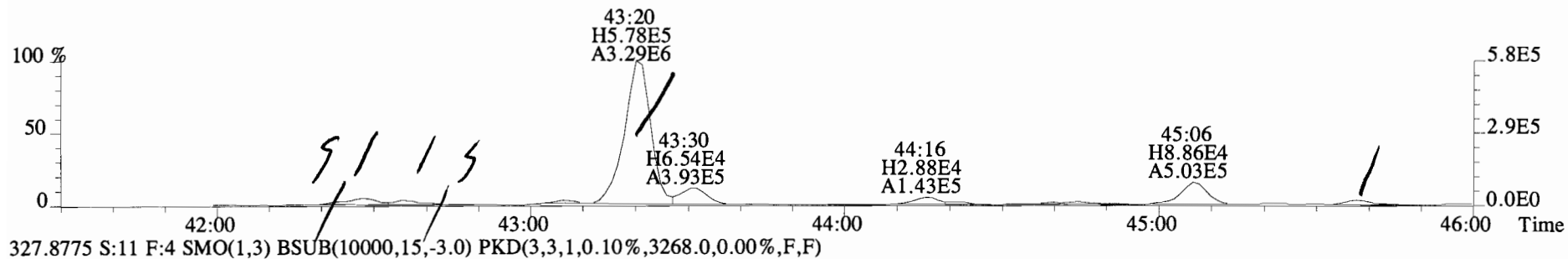
File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
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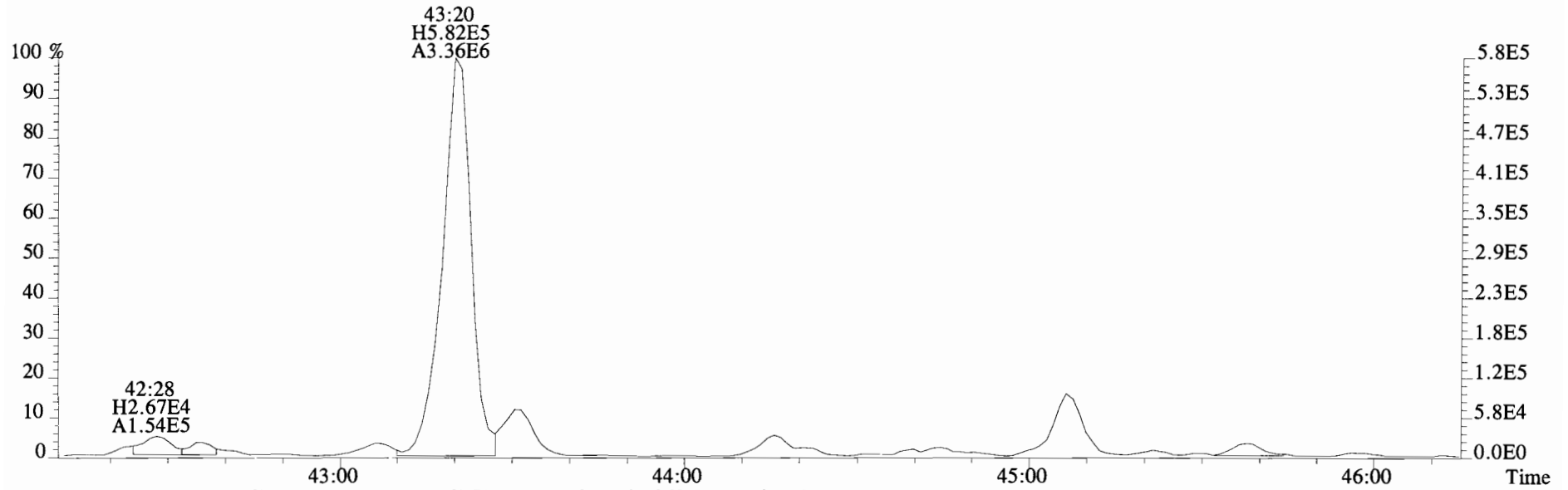
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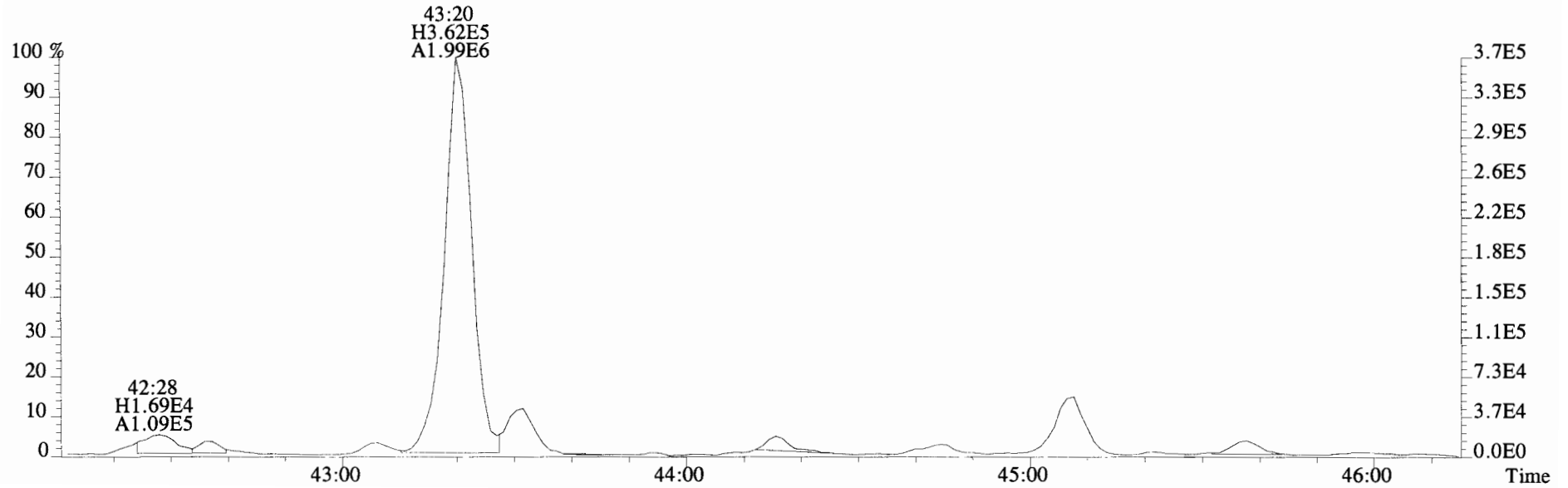
File:140925E1 #1-560 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
325.8804 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4556.0,0.00%,F,F)



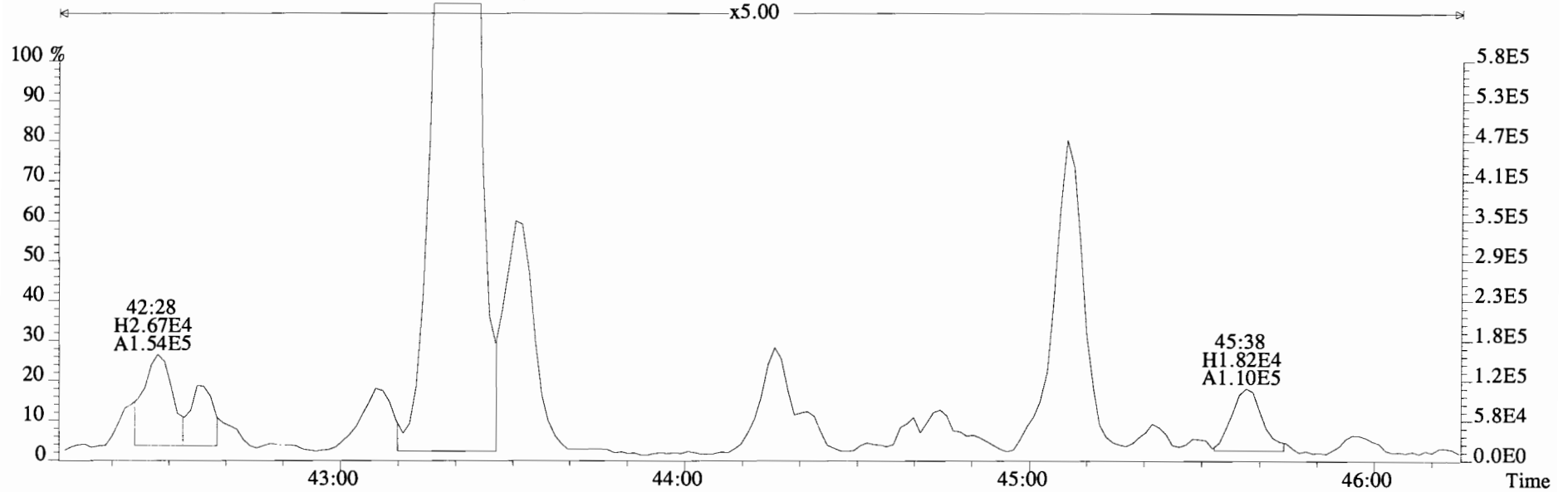
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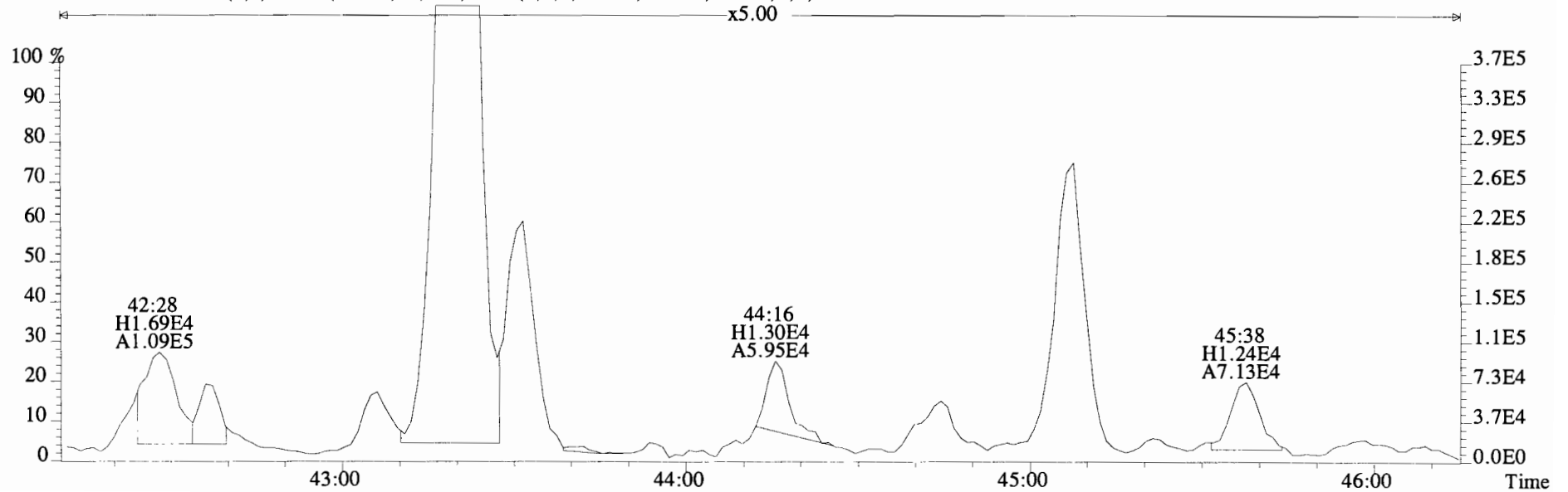
327.8775 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3268.0,0.00%,F,F)



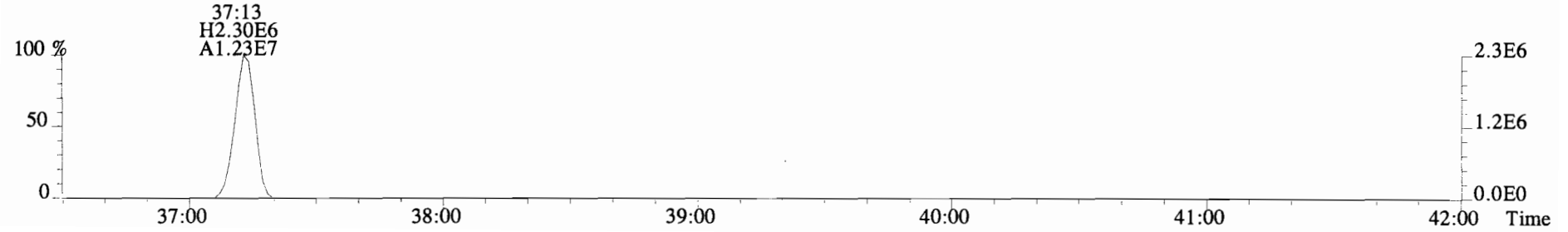
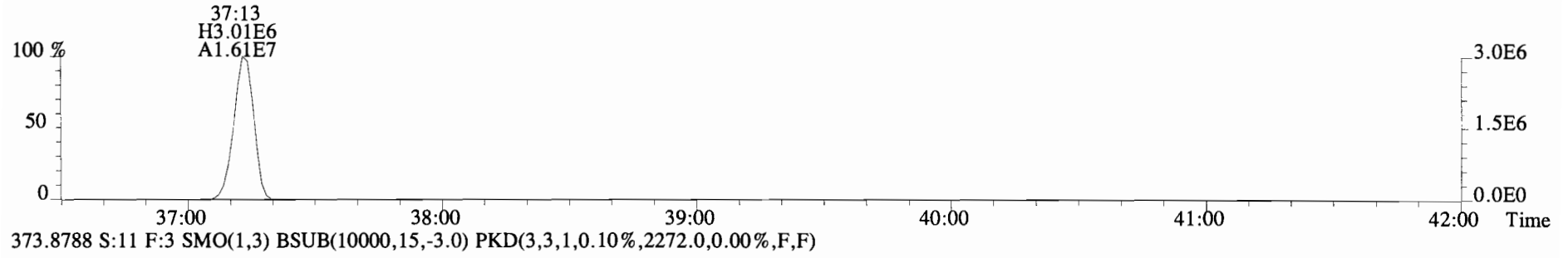
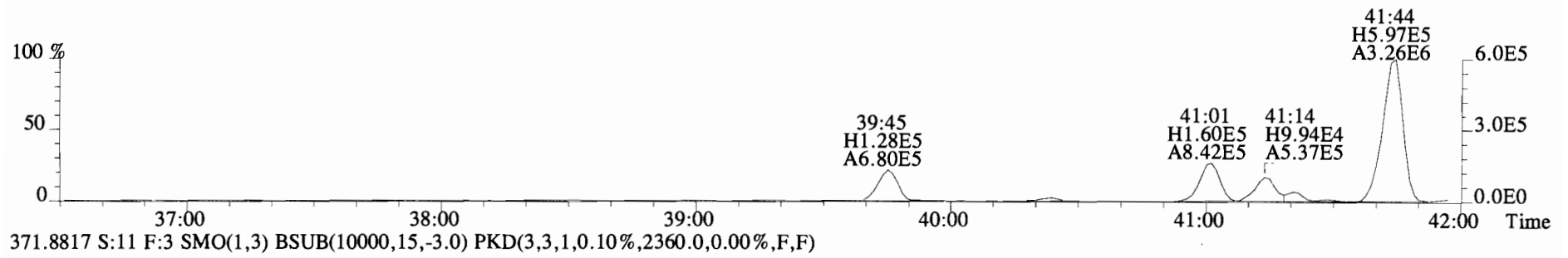
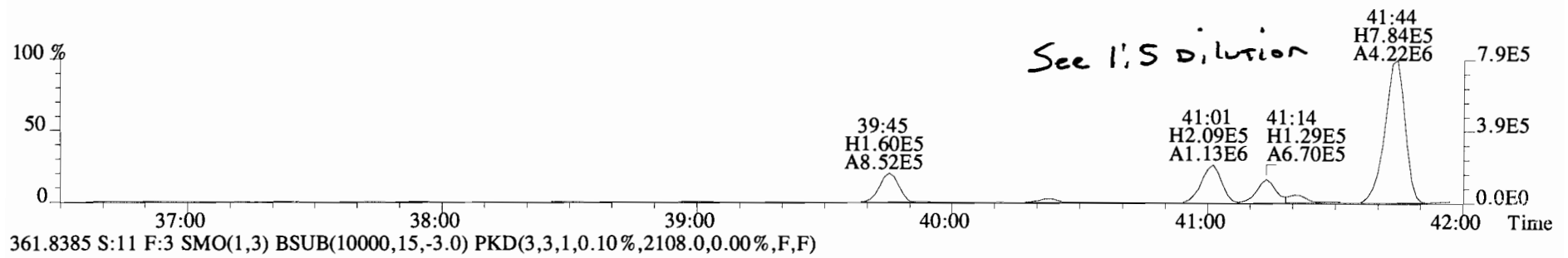
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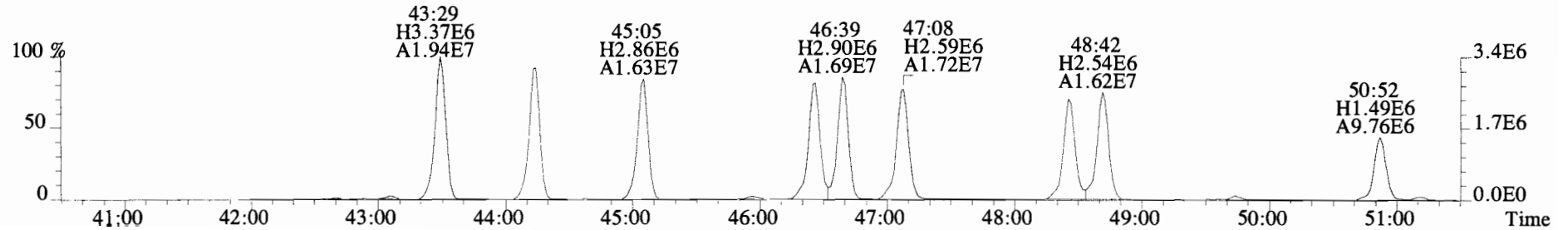
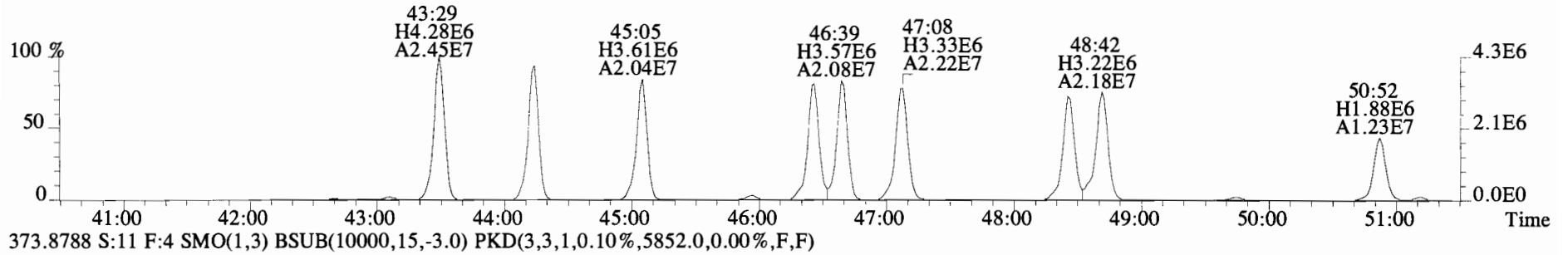
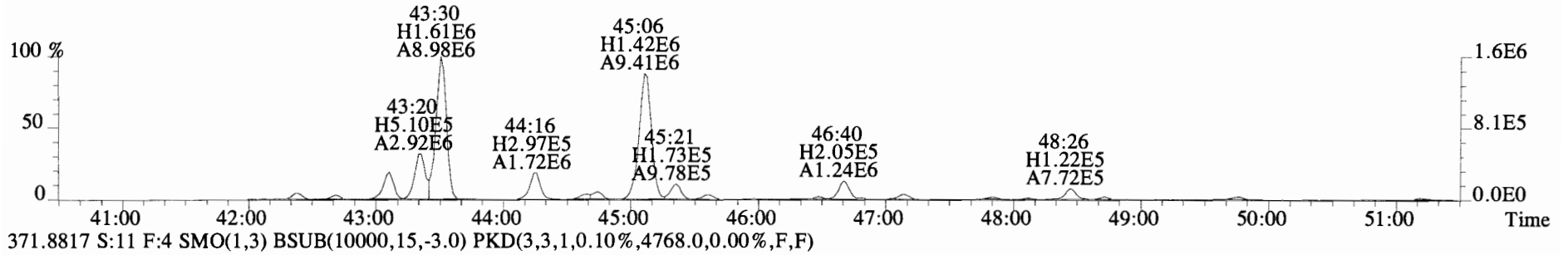
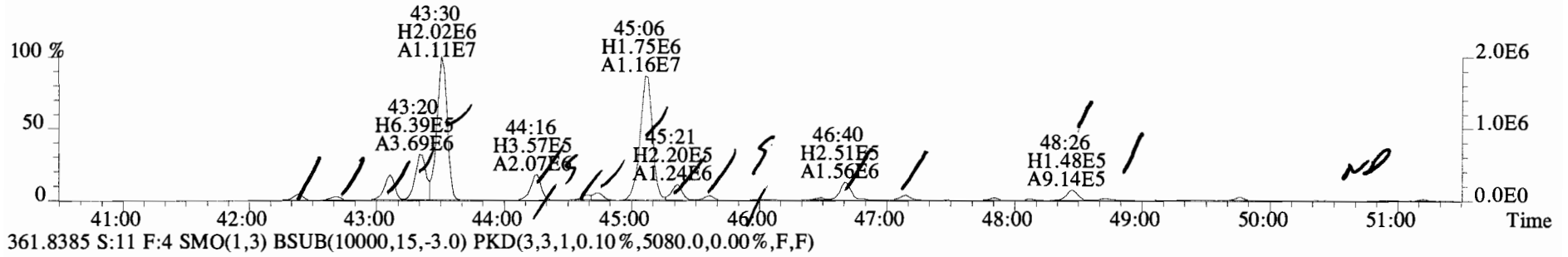
327.8775 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3268.0,0.00%,F,F)



File:140925E1 #1-762 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
359.8415 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)

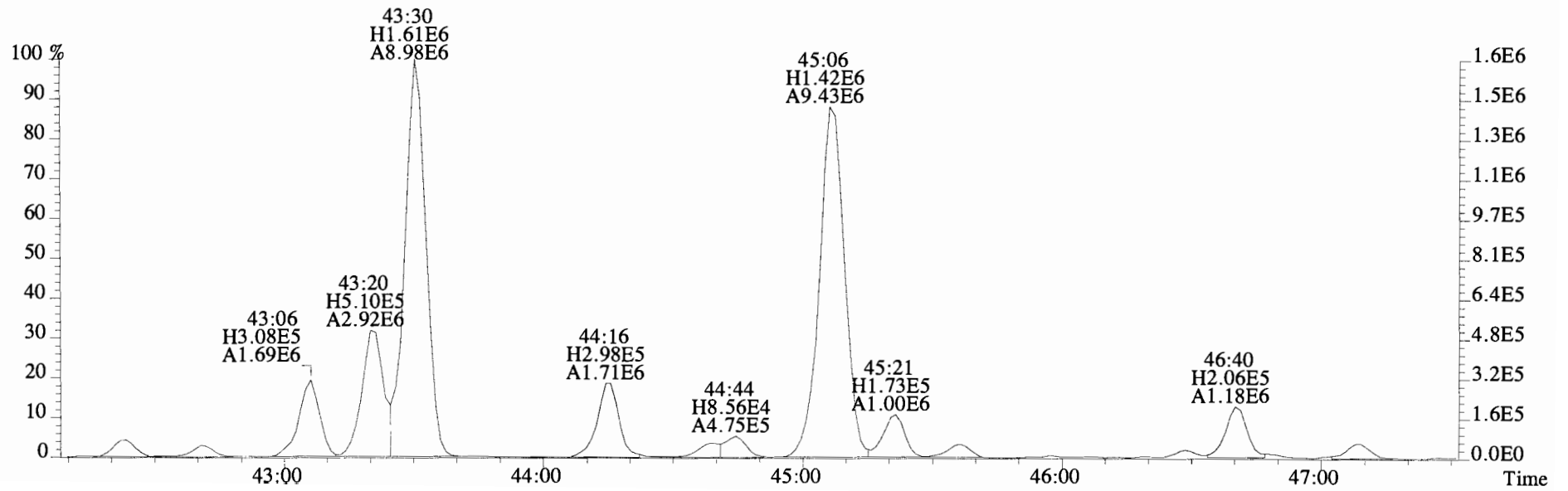
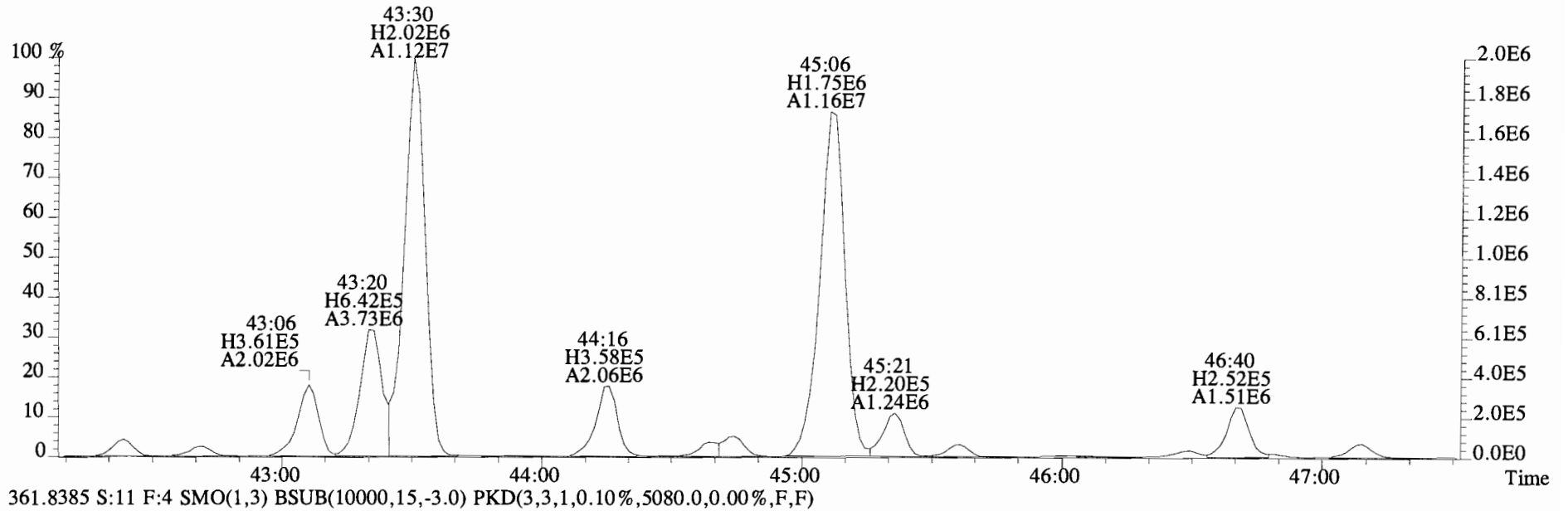


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359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4156.0,0.00%,F,F)

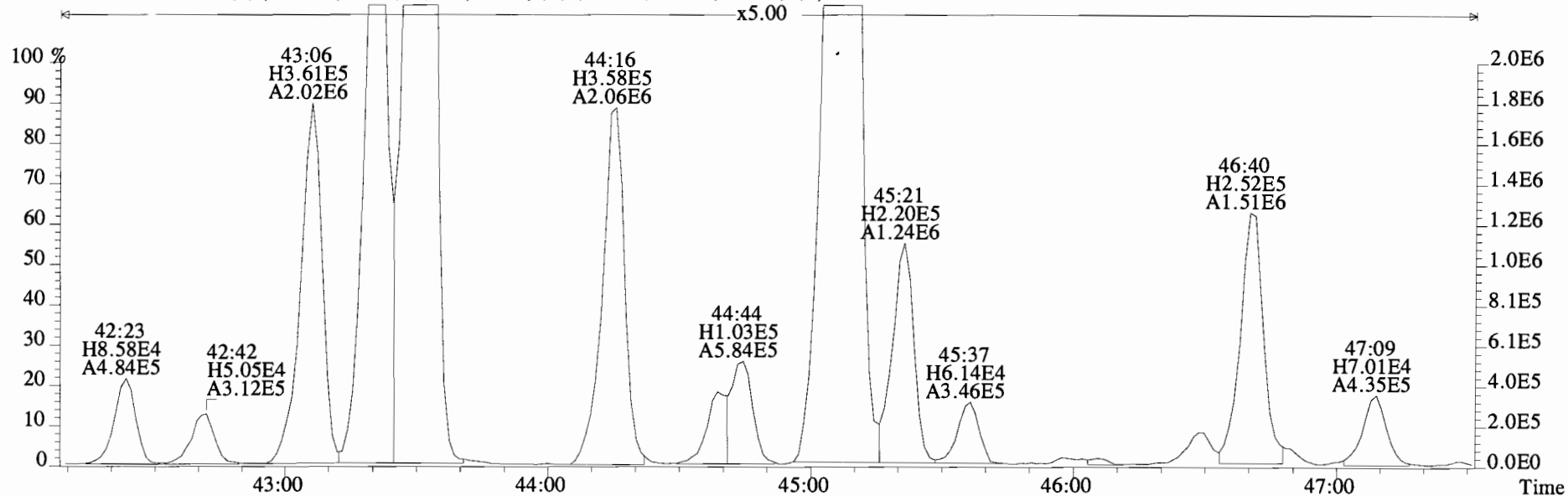




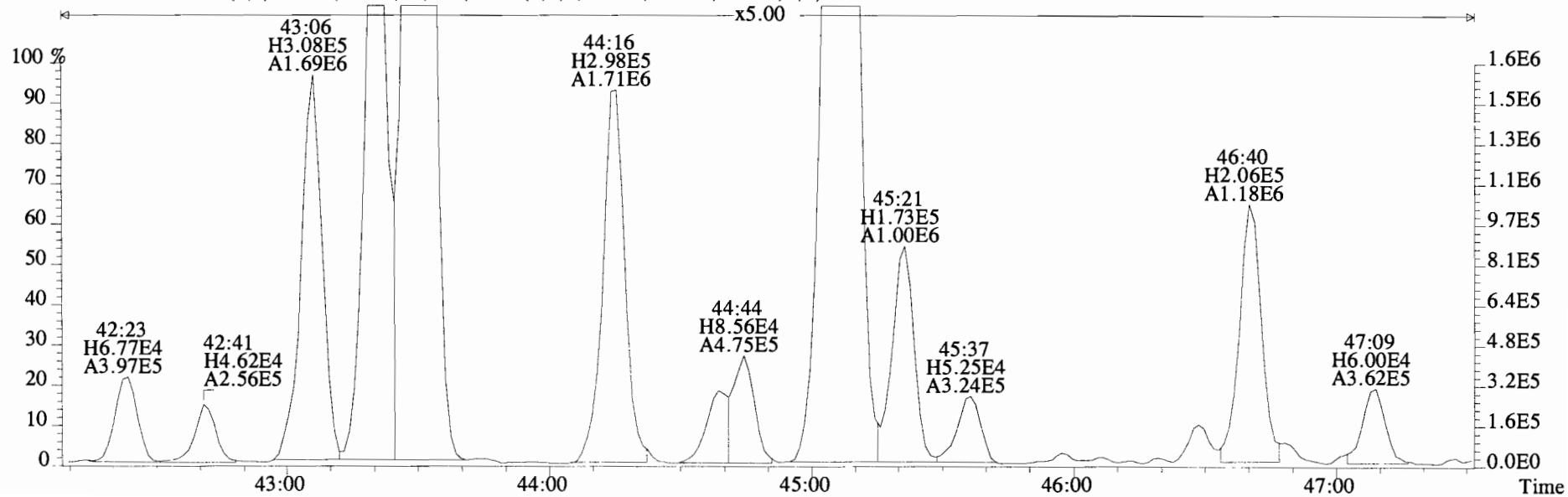
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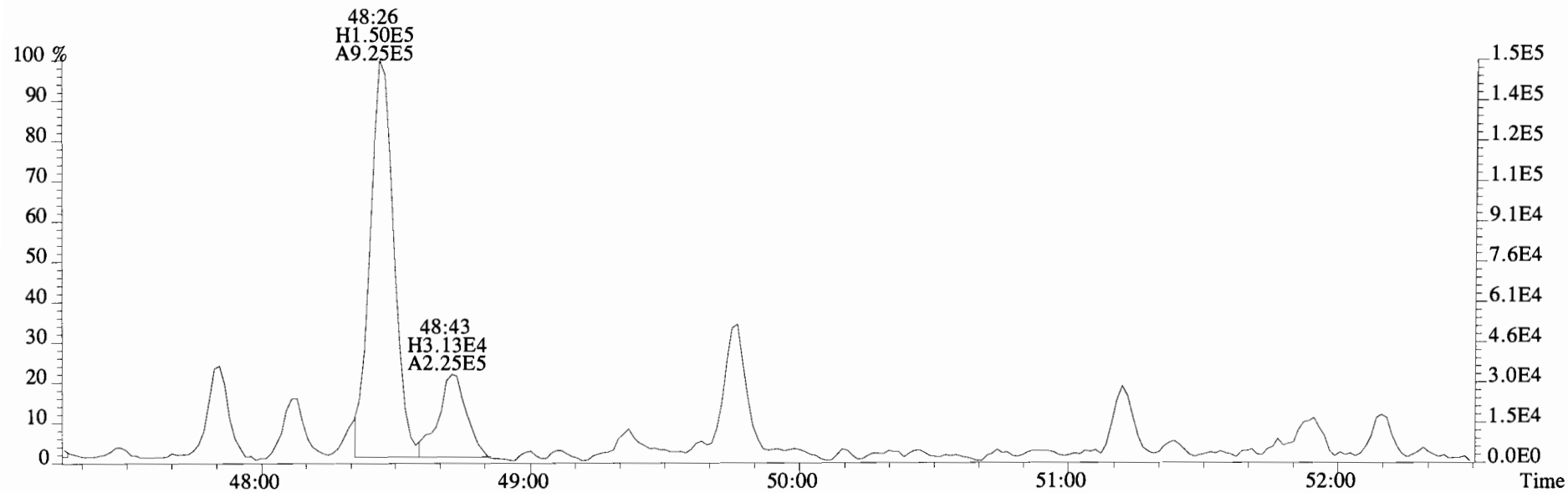
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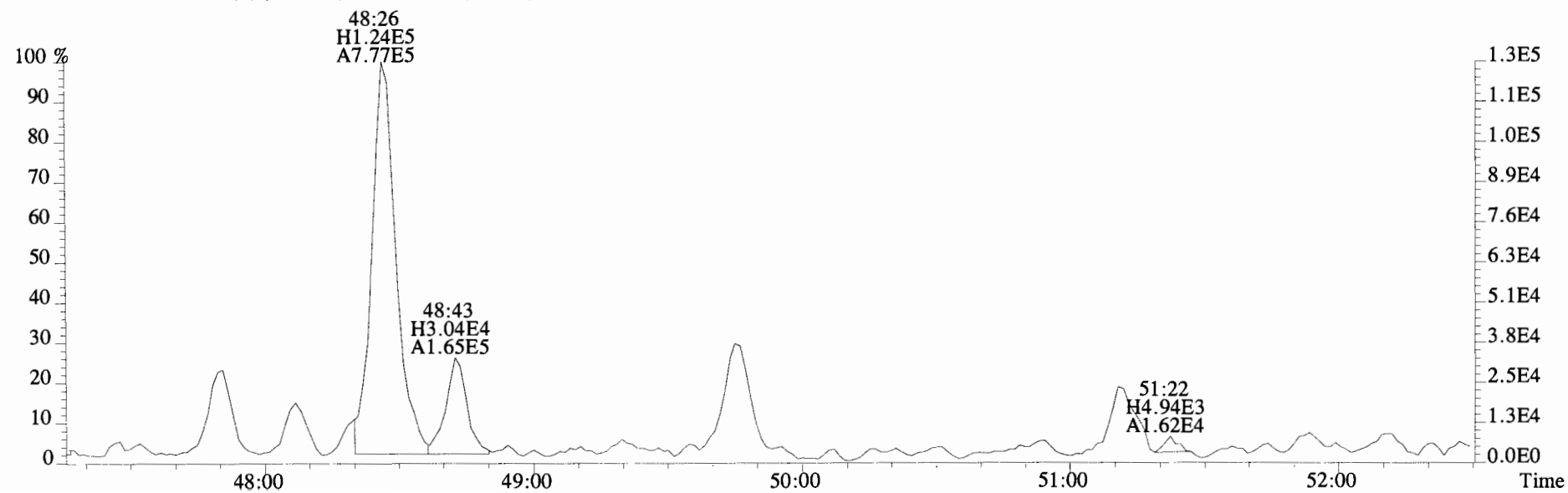
361.8385 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5080.0,0.00%,F,F)



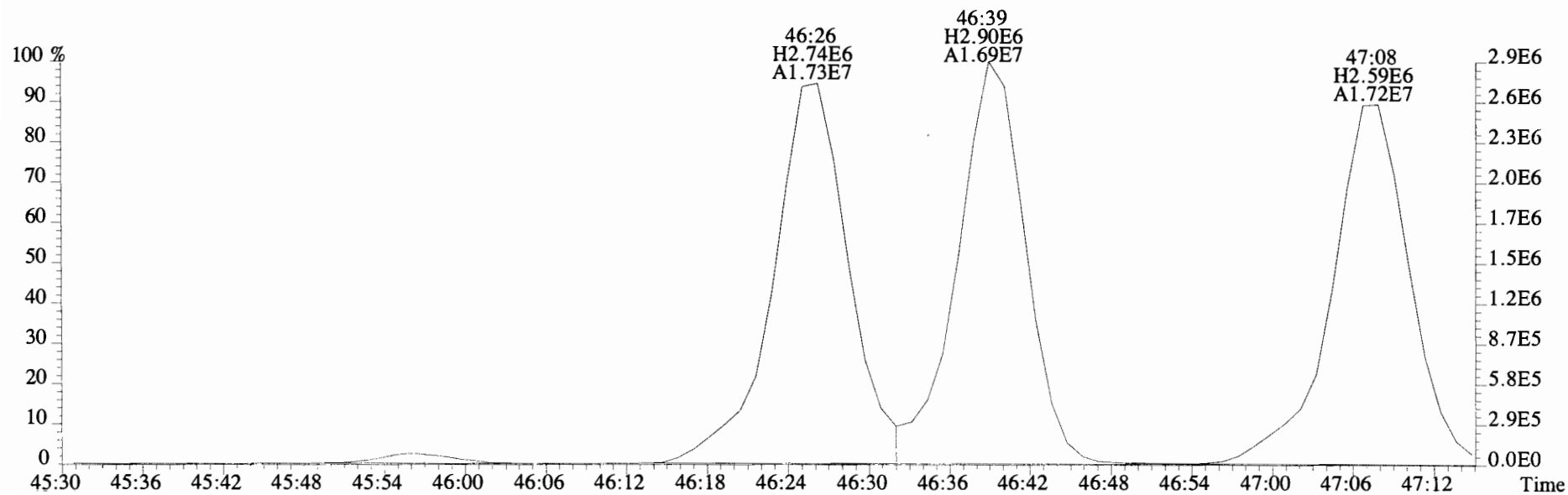
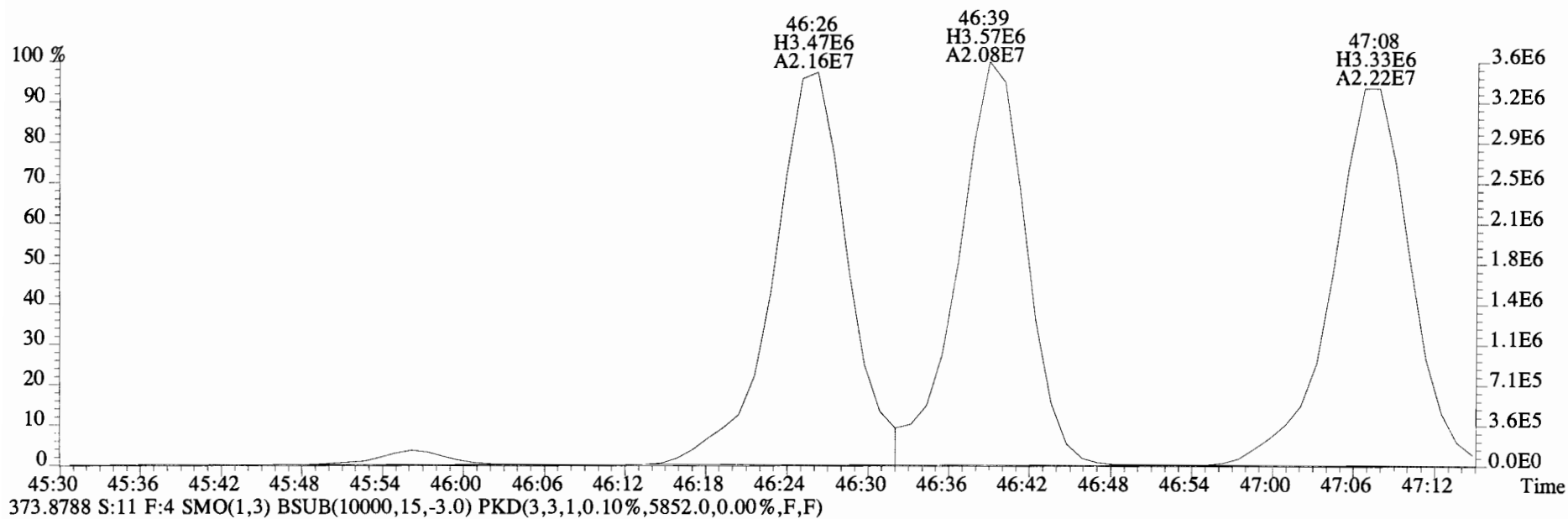
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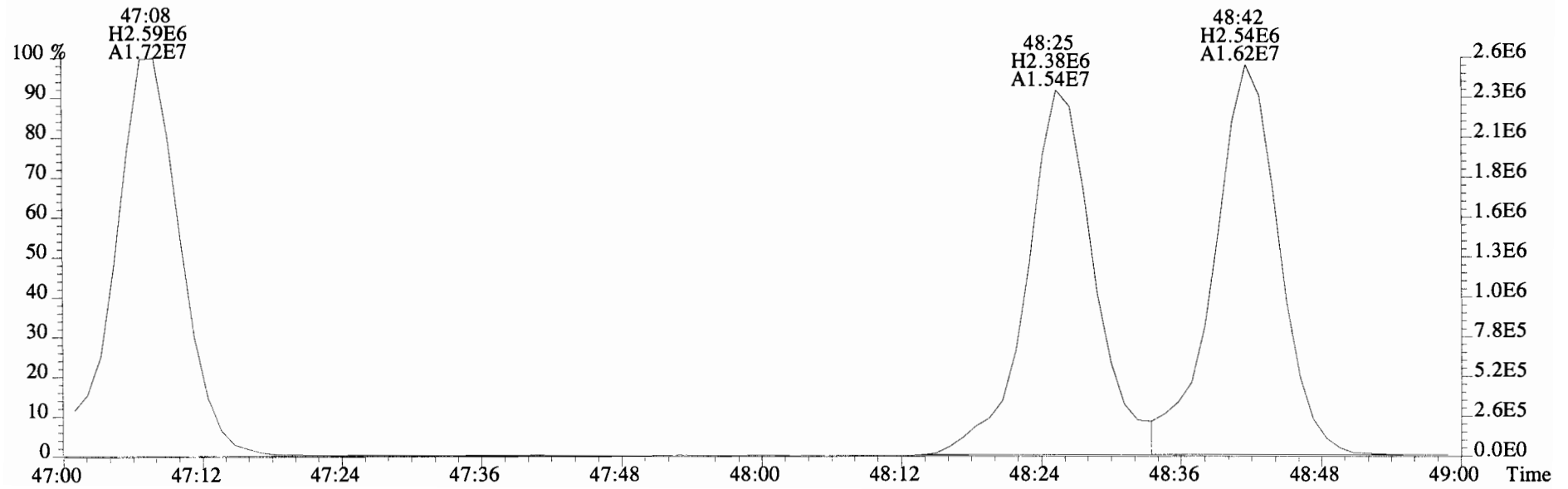
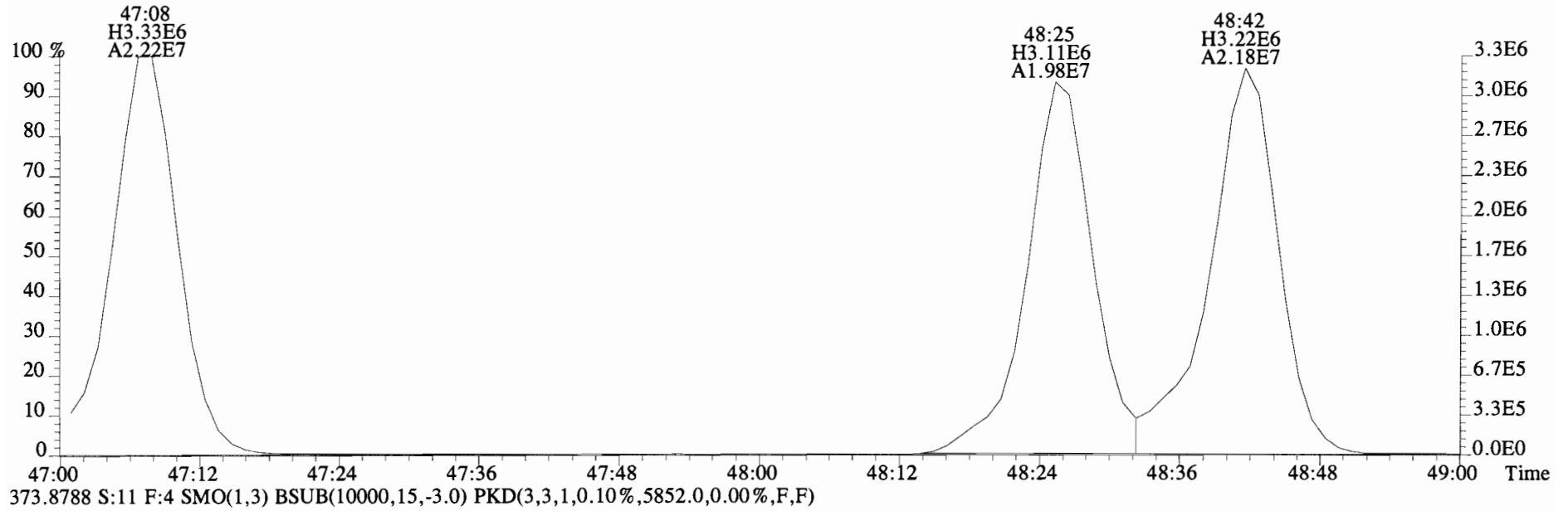
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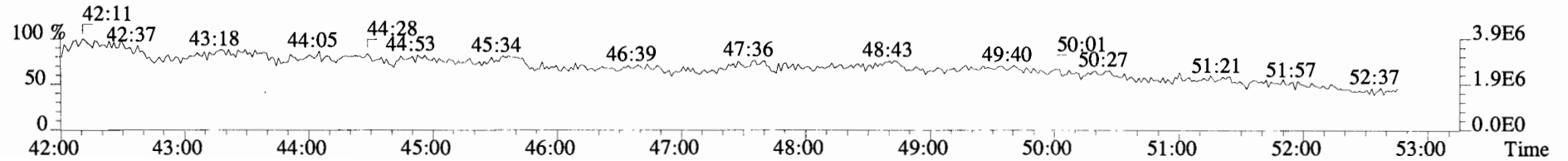
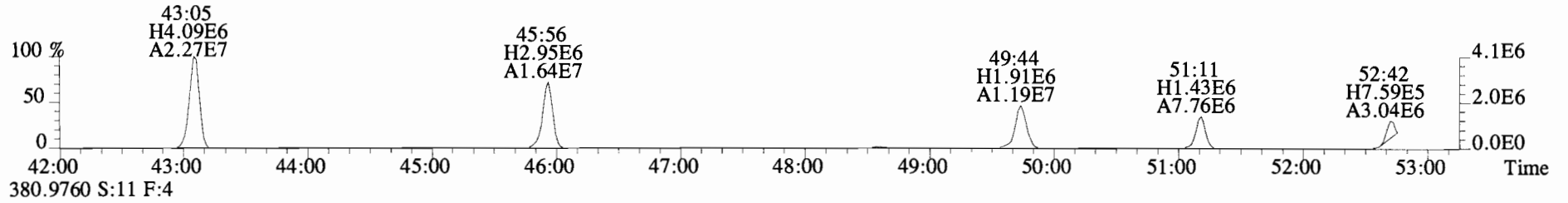
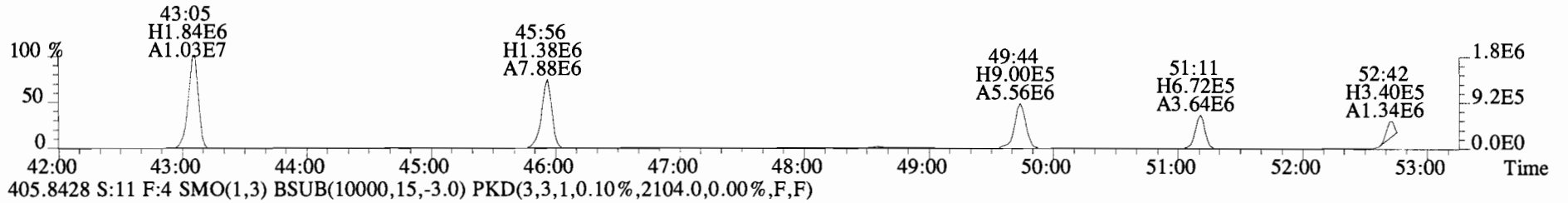
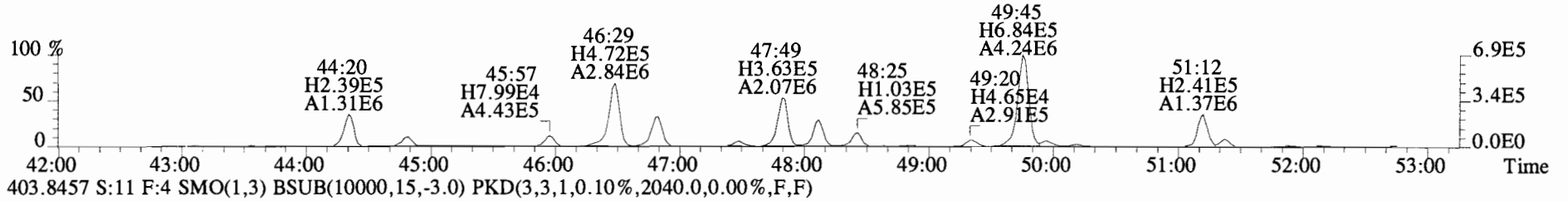
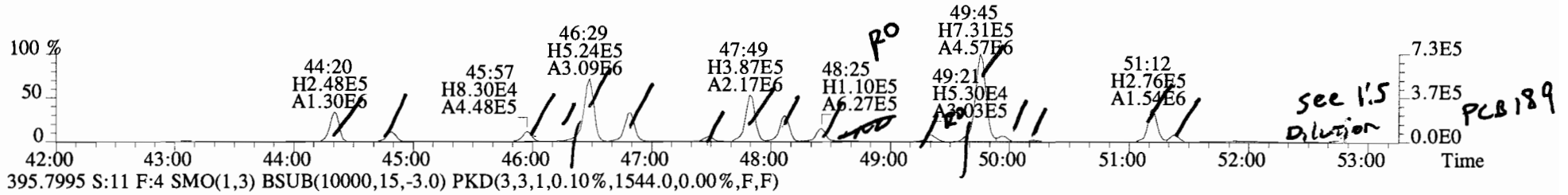
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
371.8817 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4768.0,0.00%,F,F)



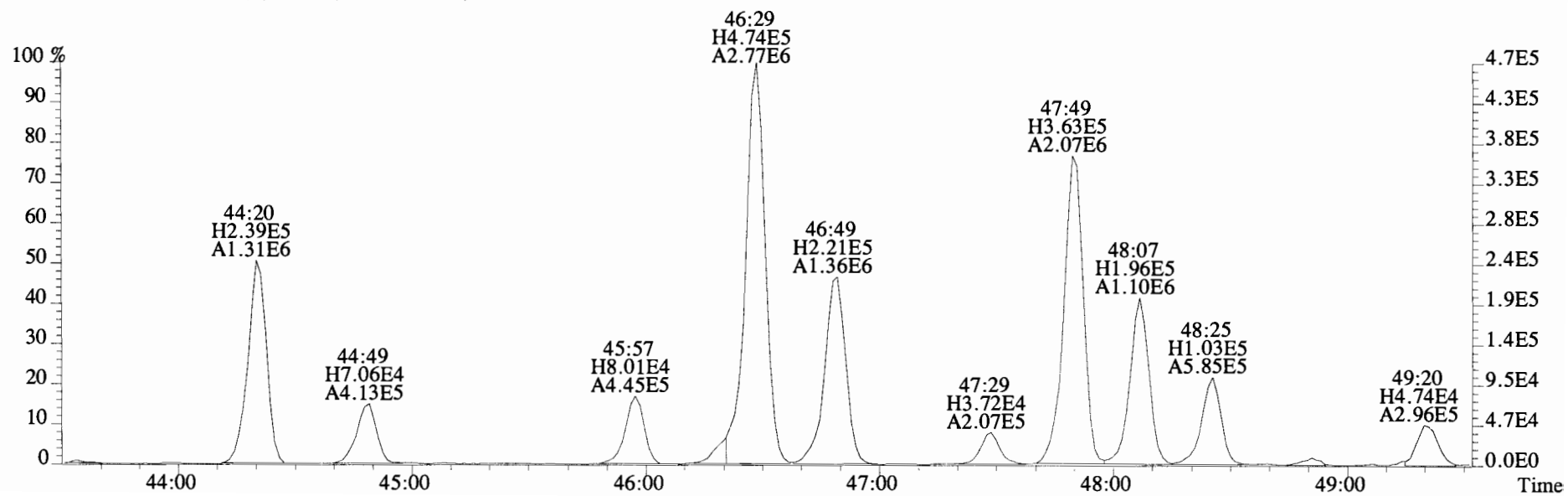
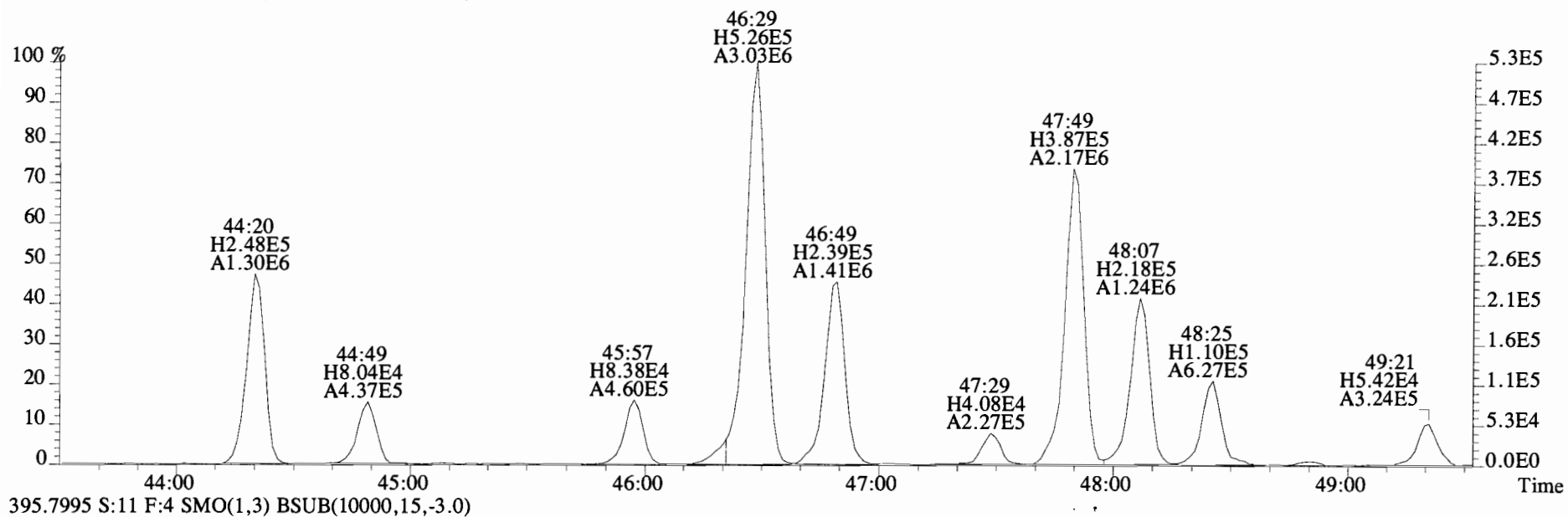
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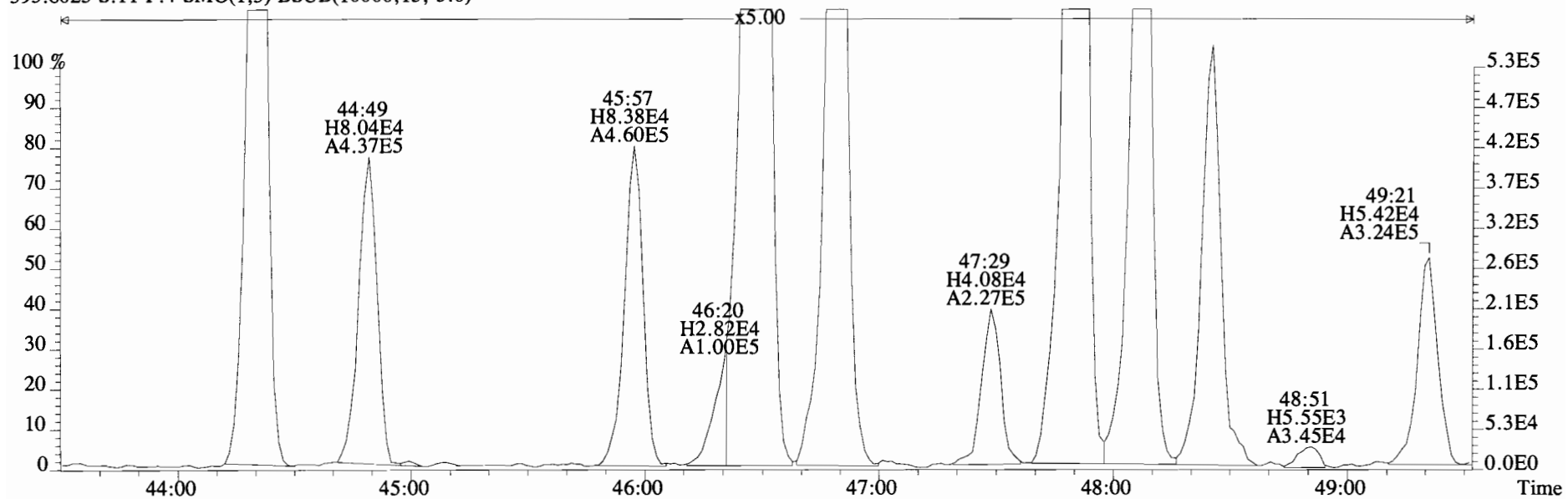
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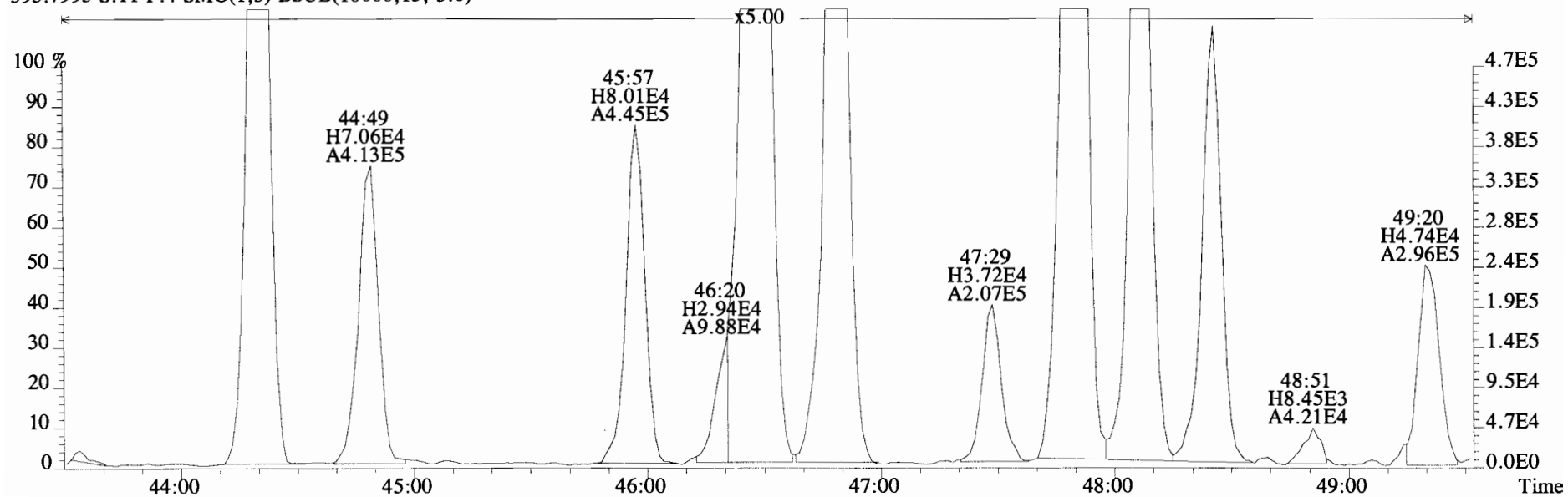
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 393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



File:140925E1 #1-560 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)

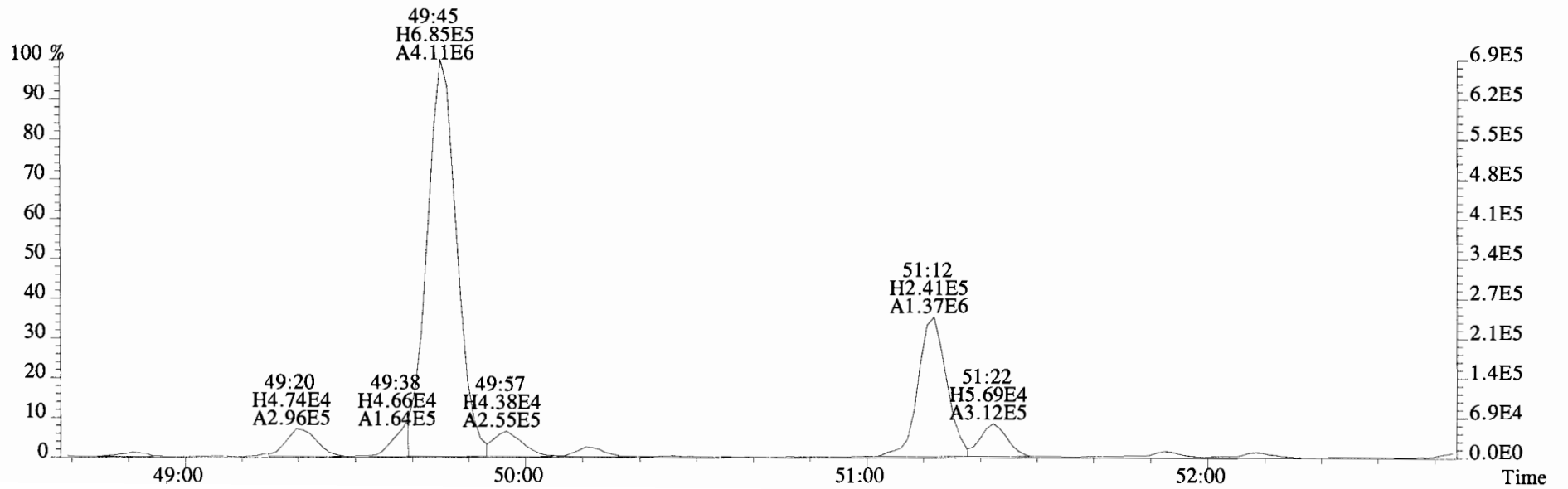
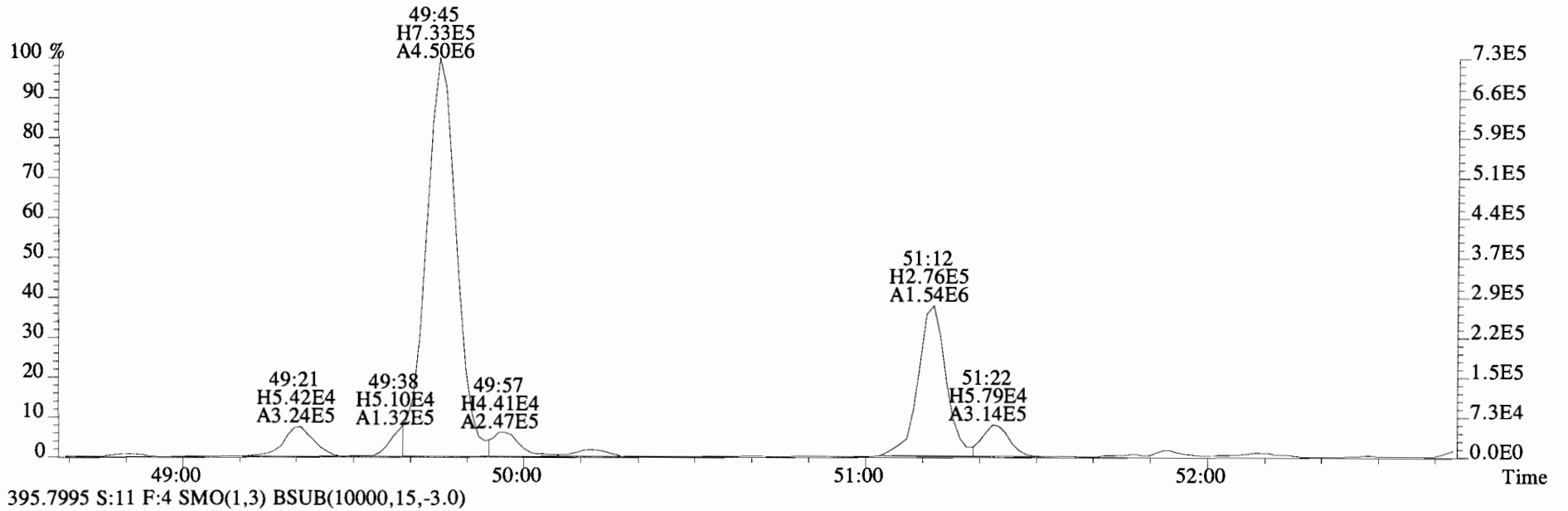


395.7995 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)

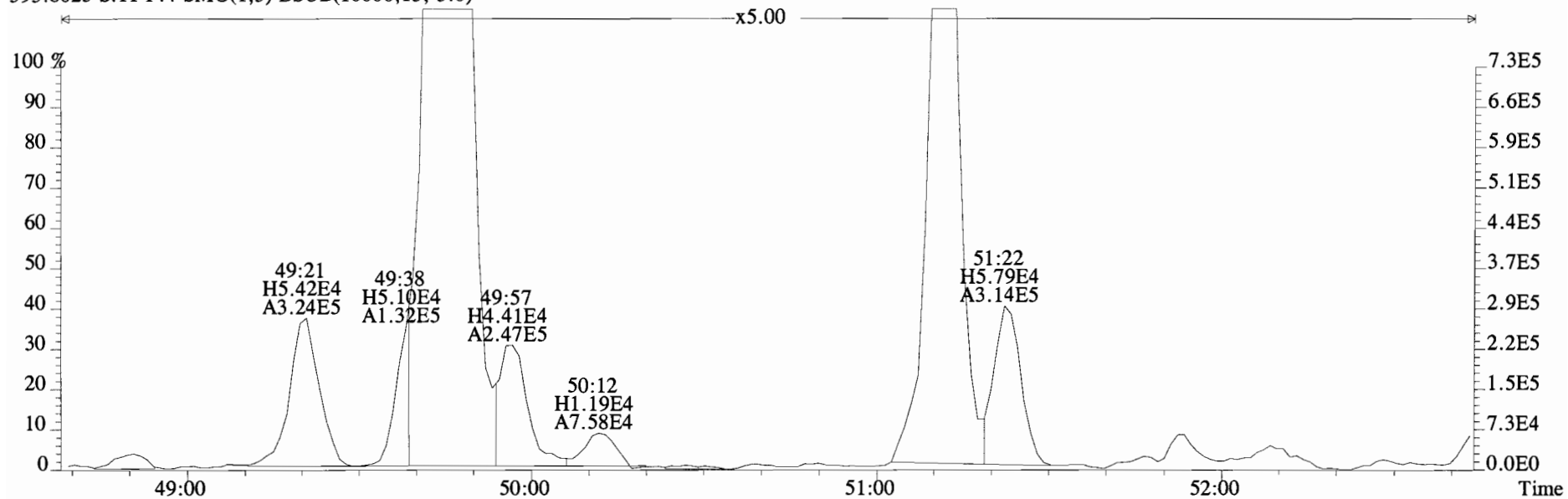




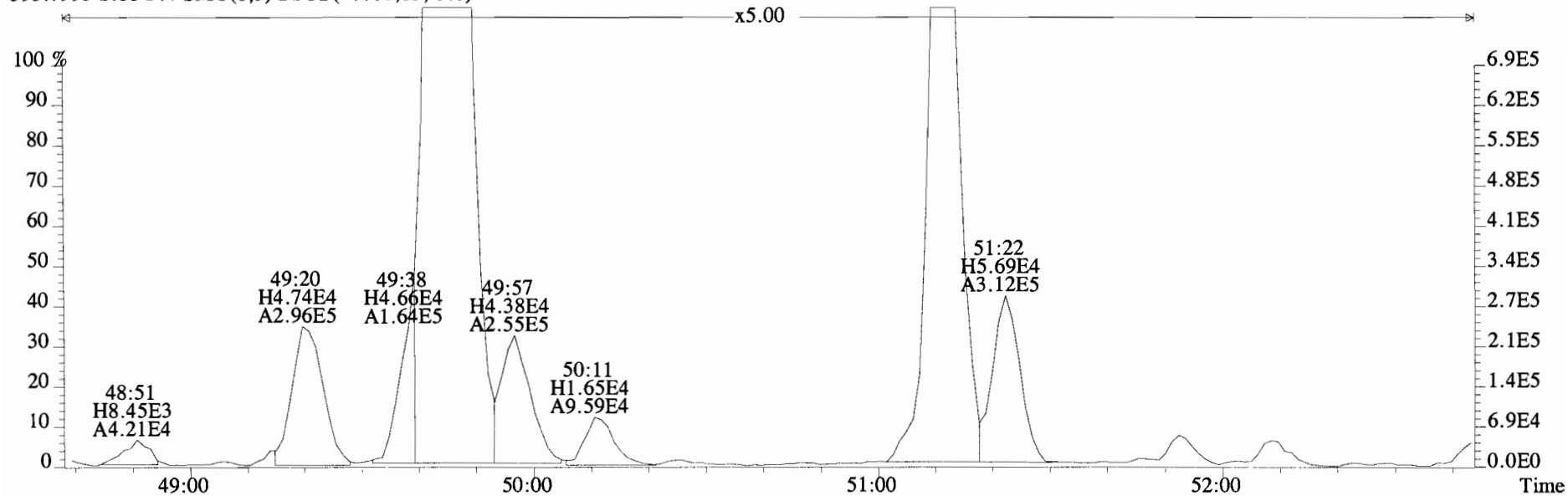
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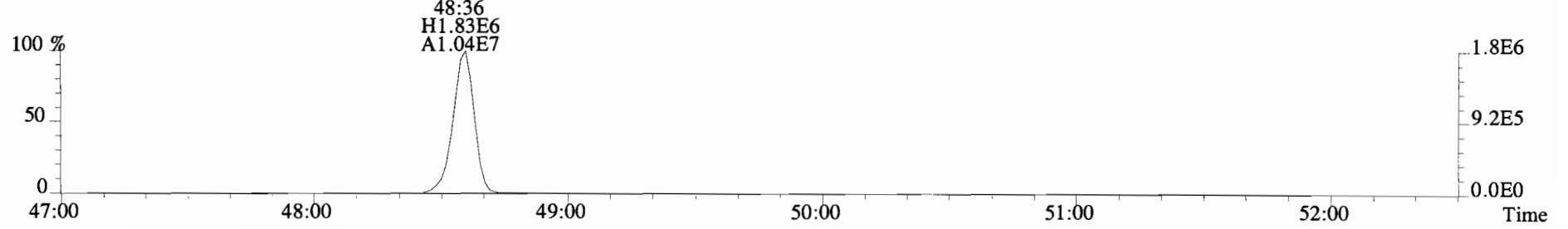
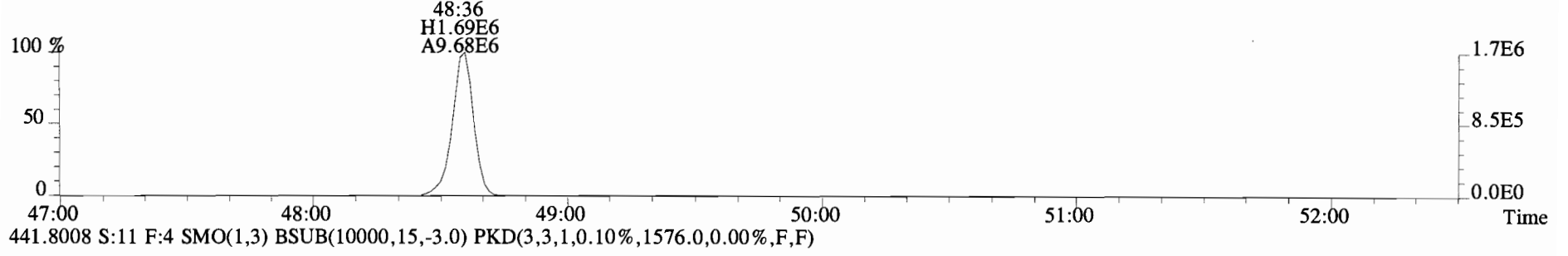
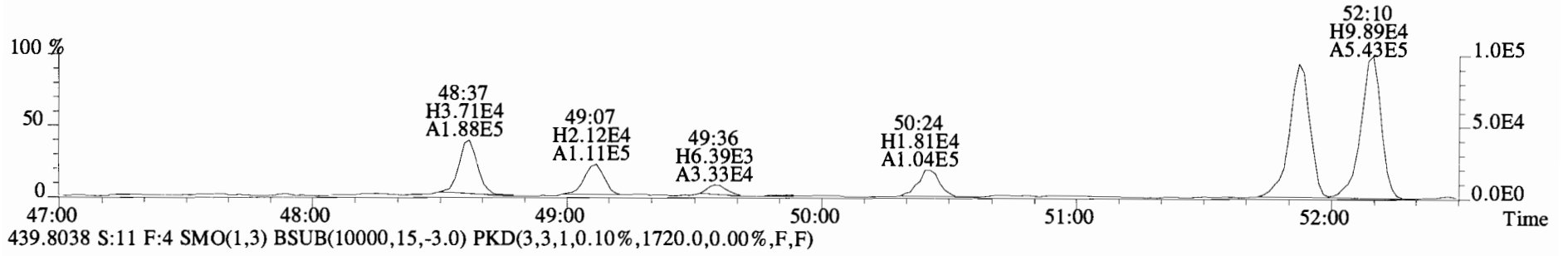
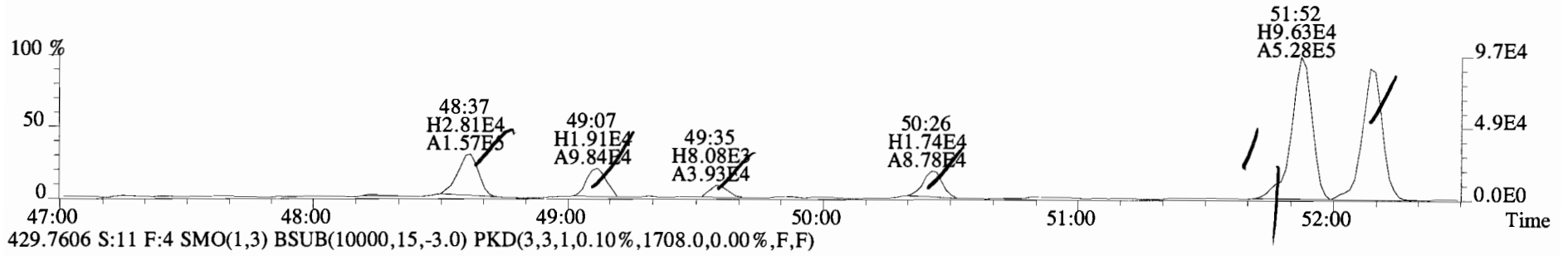
File:140925E1 #1-560 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



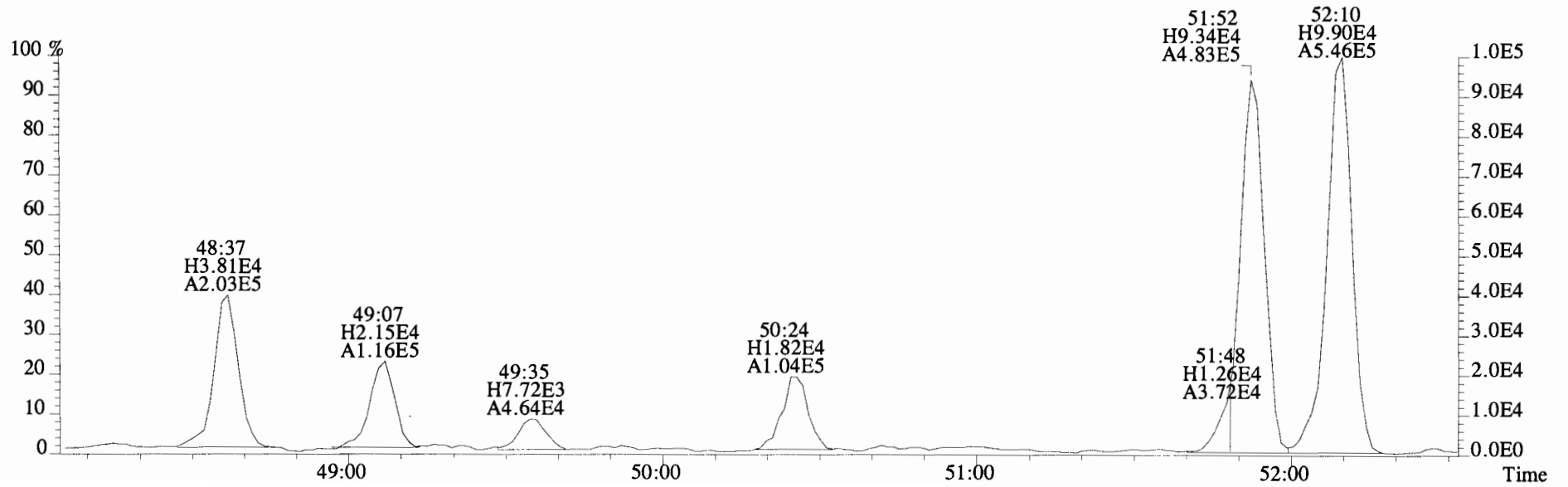
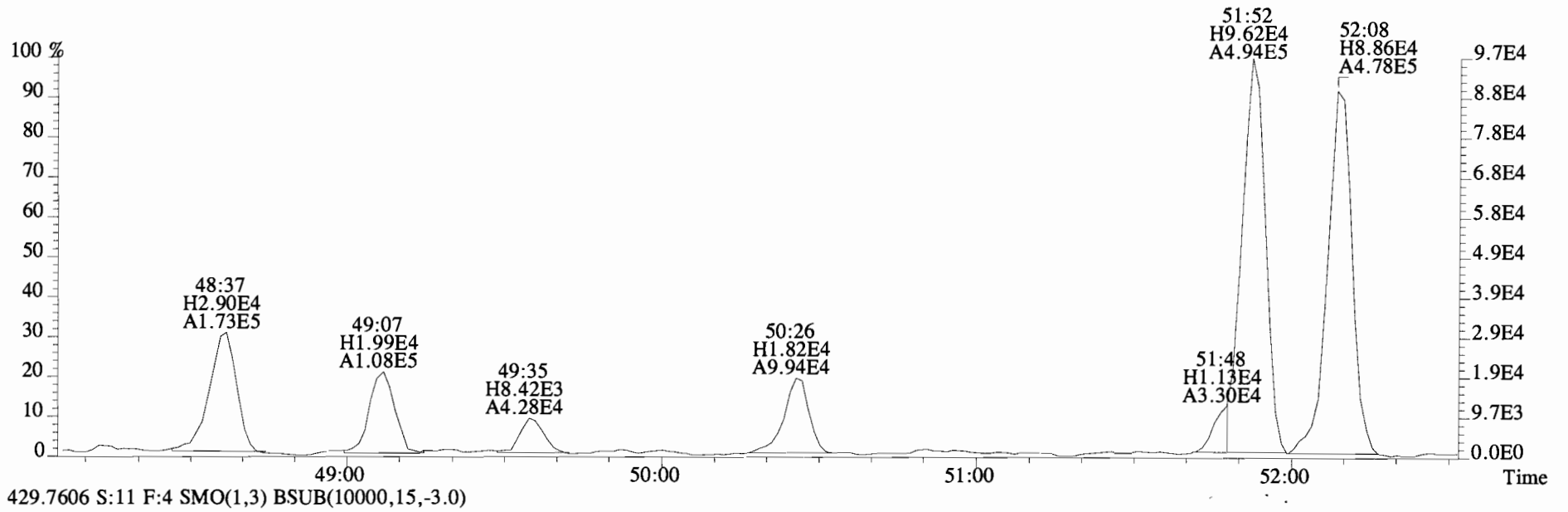
395.7995 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



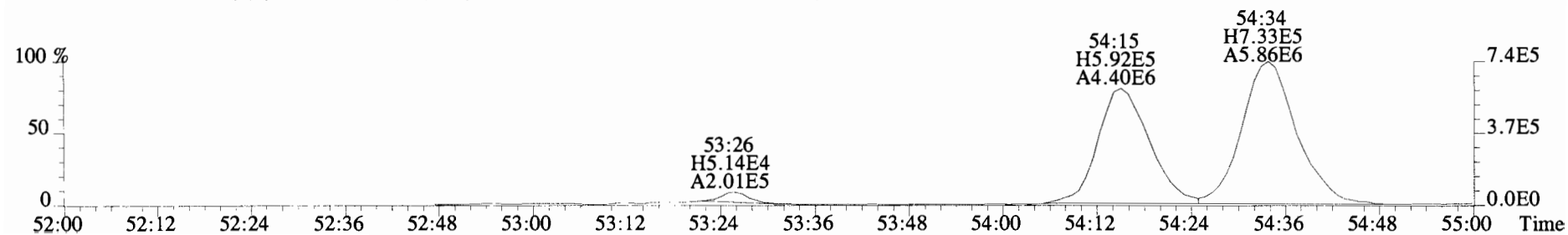
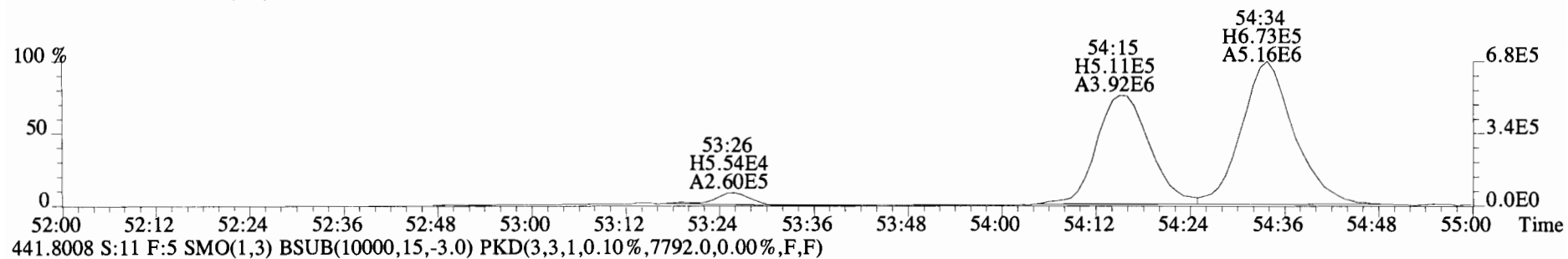
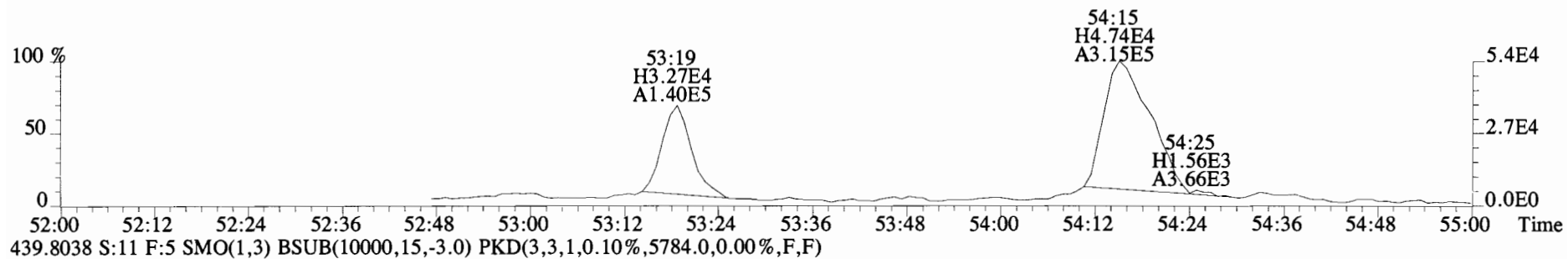
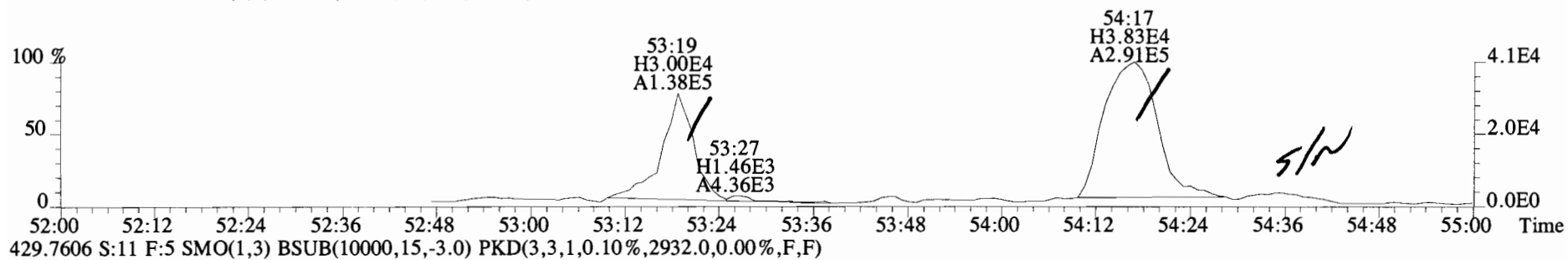
File:140925E1 #1-560 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
427.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1456.0,0.00%,F,F)



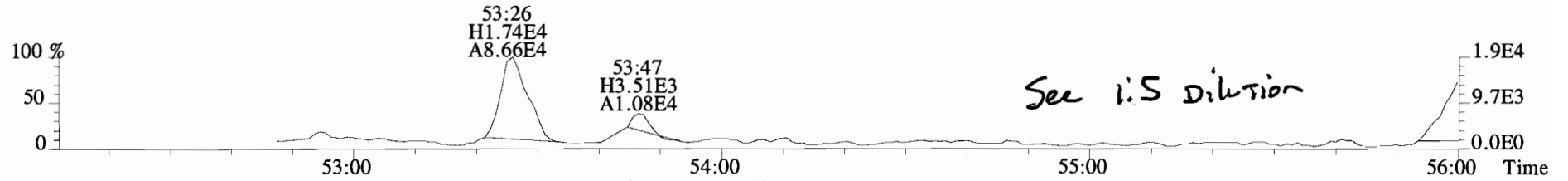
File:140925E1 #1-560 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
427.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



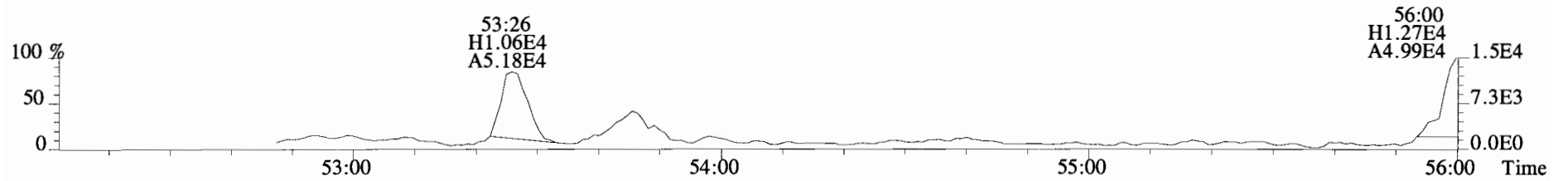
File:140925E1 #1-418 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
427.7635 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



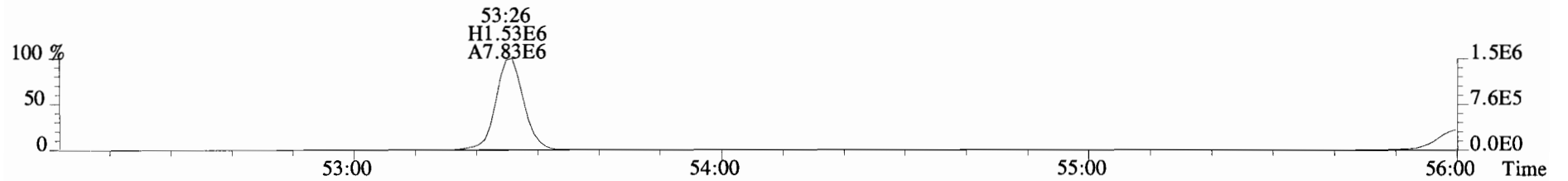
File:140925E1 #1-418 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
463.7216 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



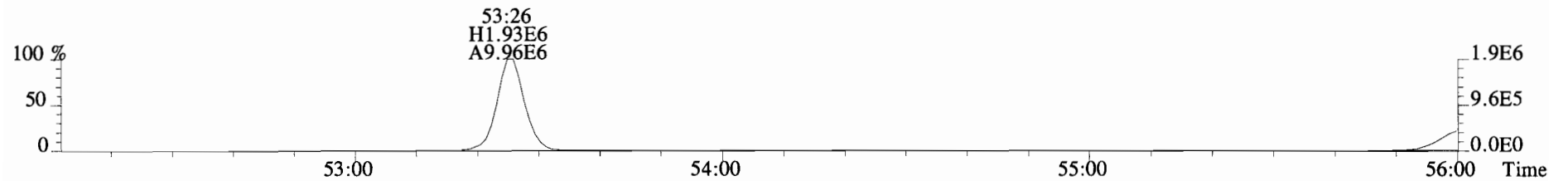
465.7186 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



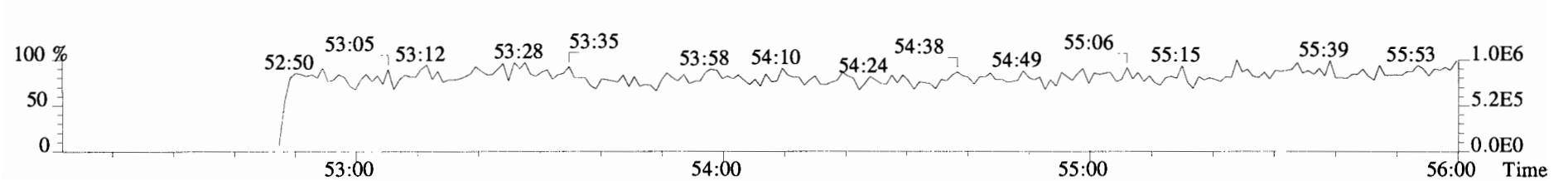
473.7648 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



475.7619 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)

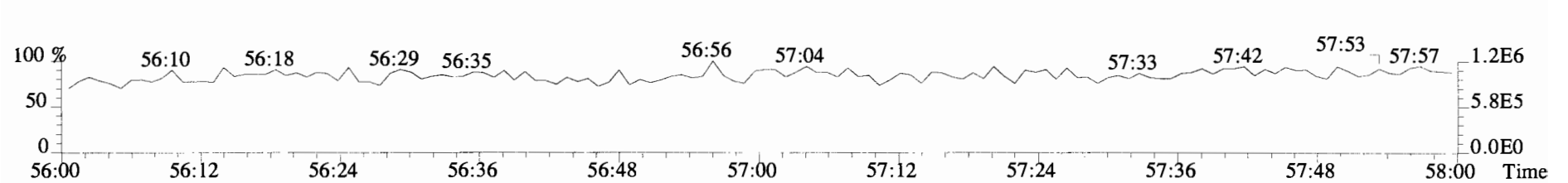
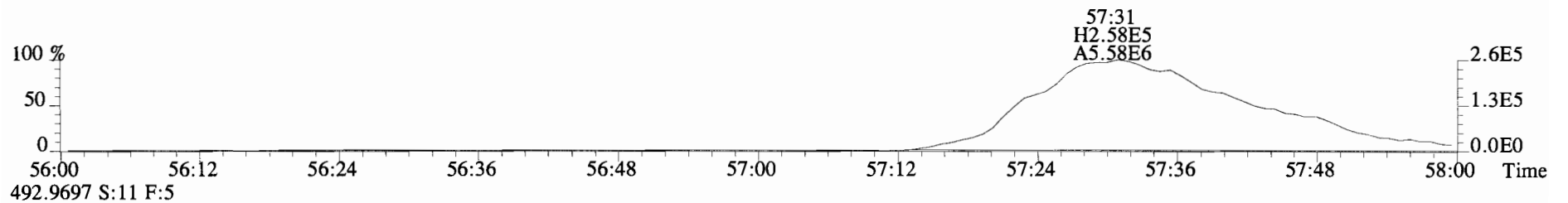
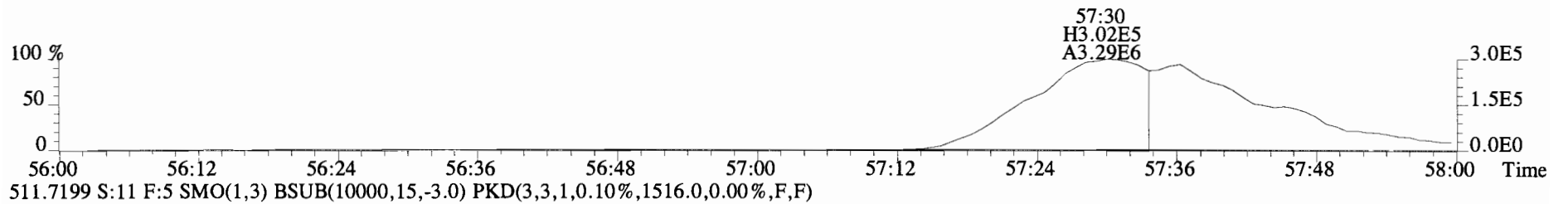
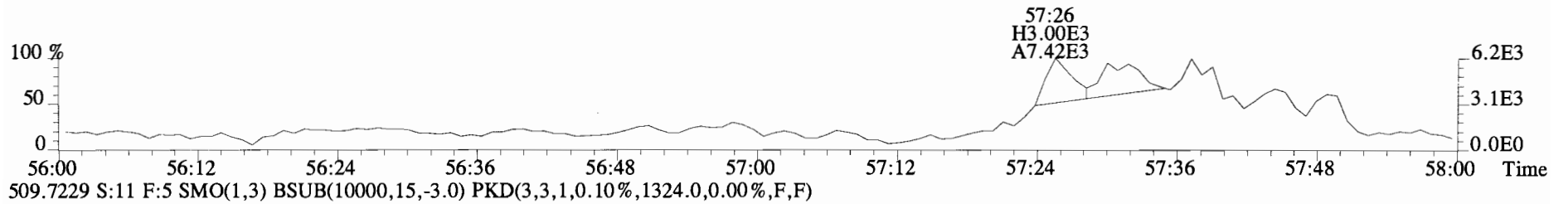
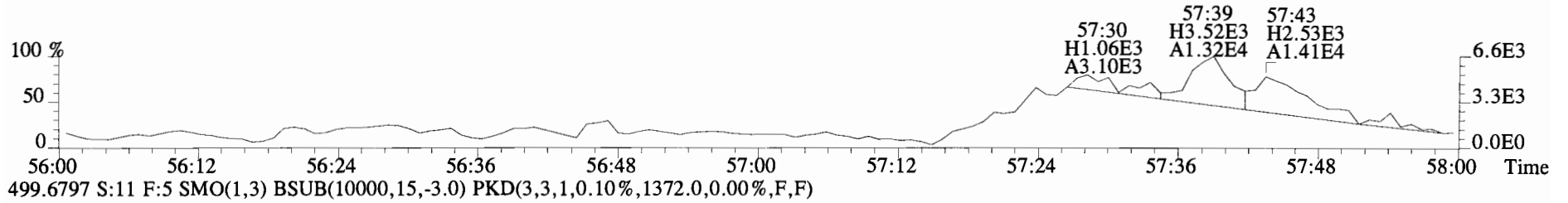


492.9697 S:11 F:5



File:140925E1 #1-418 Acq:25-SEP-2014 18:49:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400668-02 CS-SP-01-20140903-W 1 Exp:PCB\_ZB1  
497.6826 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1240.0,0.00%,F,F)

See 1:5 dilution



Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICAL: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST141002E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n NotFη	1.19	*		1620	2.5	1.82	*	0.996-1.006	
Mono	PCB-2	*	*	n NotFη	1.18	*		1620	2.5	1.81	*	0.984-0.994	
Mono	PCB-3	*	*	n NotFη	1.43	*		1620	2.5	1.51	*	0.996-1.006	
Di	PCB-4/10	*	*	n NotFη	1.57	*		8700	2.5	7.76	*	0.997-1.007	
Di	PCB-7/9	*	*	n NotFη	1.21	*		8700	2.5	6.85	*	0.866-0.874	
Di	PCB-6	*	*	n NotFη	1.30	*		8700	2.5	6.35	*	0.890-0.899	
Di	PCB-5/8	*	*	n NotFη	1.15	*		8700	2.5	7.21	*	0.907-0.917	
Di	PCB-14	*	*	n NotFη	1.11	*		8700	2.5	7.38	*	0.949-0.959	
Di	PCB-11	3.65e+05	1.19	n 25:21	1.09	12.5	R	*	2.5	*	1.001	0.995-1.005	
Di	PCB-12/13	*	*	n NotFη	1.19	*		8700	2.5	6.87	*	1.011-1.021	
Di	PCB-15	1.88e+05	1.04	n 26:03	1.28	5.46	R	*	2.5	*	1.029	1.023-1.033	
Tri	PCB-19	8.84e+04	1.11	y 24:20	1.04	6.30		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotFη	1.71	*		2030	2.5	1.78	*	1.032-1.042	
Tri	PCB-18	*	*	n NotFη	0.78	*		2030	2.5	2.56	*	0.949-0.959	
Tri	PCB-17	*	*	n NotFη	0.92	*		2030	2.5	2.17	*	0.956-0.966	
Tri	PCB-24/27	*	*	n NotFη	1.19	*		2030	2.5	1.68	*	0.977-0.987	
Tri	PCB-16/32	1.71e+05	1.40	n 27:15	0.94	8.71	R	*	2.5	*	1.001	0.995-1.005	
Tri	PCB-34	*	*	n NotFη	1.14	*		1600	2.5	2.15	*	0.955-0.965	
Tri	PCB-23	*	*	n NotFη	1.28	*		1600	2.5	1.91	*	0.959-0.969	
Tri	PCB-29	*	*	n NotFη	1.08	*		1600	2.5	2.27	*	0.967-0.977	
Tri	PCB-26	*	*	n NotFη	1.21	*		1600	2.5	2.03	*	0.974-0.984	
Tri	PCB-25	*	*	n NotFη	1.26	*		1600	2.5	1.94	*	0.979-0.989	
Tri	PCB-31	*	*	n NotFη	1.28	*		1600	2.5	1.91	*	0.992-1.002	
Tri	PCB-28	*	*	n NotFη	1.71	*		1600	2.5	1.43	*	0.995-1.005	
Tri	PCB-20/21/33	*	*	n NotFη	1.08	*		1600	2.5	2.26	*	1.017-1.027	
Tri	PCB-22	*	*	n NotFη	1.21	*		1600	2.5	2.03	*	1.032-1.042	
Tri	PCB-36	*	*	n NotFη	1.14	*		1600	2.5	2.63	*	0.928-0.938	
Tri	PCB-39	*	*	n NotFη	1.12	*		1600	2.5	2.69	*	0.943-0.953	
Tri	PCB-38	*	*	n NotFη	1.20	*		1600	2.5	2.50	*	0.966-0.976	
Tri	PCB-35	*	*	n NotFη	1.23	*		1600	2.5	2.44	*	0.982-0.992	
Tri	PCB-37	*	*	n NotFη	1.23	*		1600	2.5	2.44	*	0.995-1.005	
Tetra	PCB-54	*	*	n NotFη	1.10	*		1920	2.5	2.04	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotFη	0.88	*		1920	2.5	2.56	*	1.037-1.047	
Tetra	PCB-53	*	*	n NotFη	1.06	*		1920	2.5	2.62	*	0.942-0.952	
Tetra	PCB-51	*	*	n NotFη	0.99	*		1920	2.5	2.81	*	0.952-0.962	
Tetra	PCB-45	*	*	n NotFη	0.86	*		1920	2.5	3.22	*	0.966-0.976	
Tetra	PCB-46	*	*	n NotFη	0.85	*		1920	2.5	3.29	*	0.981-0.991	

Integrations by:

Analyst Dms

Date: 10/3/14

Reviewed by: [Signature]

Date: 10/3/14



Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST141002E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	*	n NotFη	1.28	*		1920	2.5	2.17	*	0.996-1.006	
Tetra	PCB-73	*	*	n NotFη	1.35	*		1920	2.5	2.06	*	1.000-1.010	
Tetra	PCB-43/49	*	*	n NotFη	0.99	*		1920	2.5	2.80	*	1.005-1.015	
Tetra	PCB-47	*	*	n NotFη	1.06	*		1920	2.5	2.50	*	0.996-1.006	
Tetra	PCB-48/75	*	*	n NotFη	1.23	*		1920	2.5	2.15	*	0.999-1.009	
Tetra	PCB-65	*	*	n NotFη	1.22	*		1920	2.5	2.16	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotFη	1.22	*		1920	2.5	2.16	*	1.011-1.021	
Tetra	PCB-44	*	*	n NotFη	0.86	*		1920	2.5	3.07	*	1.021-1.031	
Tetra	PCB-42/59	*	*	n NotFη	1.14	*		1920	2.5	2.32	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	*	n NotFη	1.21	*		1920	2.5	2.19	*	1.046-1.056	
Tetra	PCB-68	*	*	n NotFη	1.35	*		1920	2.5	1.96	*	1.054-1.064	
Tetra	PCB-40	*	*	n NotFη	0.70	*		1920	2.5	3.77	*	1.061-1.071	
Tetra	PCB-57	*	*	n NotFη	0.98	*		1920	2.5	2.25	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotFη	1.11	*		1920	2.5	1.99	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotFη	0.93	*		1920	2.5	2.38	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotFη	0.95	*		1920	2.5	2.31	*	0.982-0.992	
Tetra	PCB-74	*	*	n NotFη	1.24	*		1920	2.5	1.77	*	0.990-1.000	
Tetra	PCB-61/70	*	*	n NotFη	0.95	*		1920	2.5	2.31	*	0.995-1.005	
Tetra	PCB-76/66	*	*	n NotFη	1.04	*		1920	2.5	2.11	*	1.001-1.011	
Tetra	PCB-80	*	*	n NotFη	1.19	*		1920	2.5	1.83	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotFη	1.04	*		1920	2.5	2.10	*	1.005-1.015	
Tetra	PCB-56/60	9.68e+04	0.89	n 36:52	1.01	4.91	R	*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	*	*	n NotFη	1.08	*		1920	2.5	2.02	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotFη	1.27	*		1920	2.5	1.99	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotFη	1.33	*		1920	2.5	1.90	*	0.995-1.005	
Tetra	PCB-77	1.22e+05	0.69	y 39:45	1.10	6.70		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotFη	1.18	*		1760	2.5	4.02	*	0.996-1.006	
Penta	PCB-96	*	*	n NotFη	1.14	*		1760	2.5	4.18	*	1.034-1.044	
Penta	PCB-103	*	*	n NotFη	0.96	*		1760	2.5	4.97	*	1.050-1.060	
Penta	PCB-100	*	*	n NotFη	0.94	*		1760	2.5	5.08	*	1.061-1.071	
Penta	PCB-94	*	*	n NotFη	1.06	*		1760	2.5	6.16	*	0.980-0.990	
Penta	PCB-95/98/102	*	*	n NotFη	1.22	*		1760	2.5	5.31	*	0.995-1.005	
Penta	PCB-93	*	*	n NotFη	0.84	*		1760	2.5	7.72	*	0.997-1.007	
Penta	PCB-88/91	*	*	n NotFη	1.12	*		1760	2.5	5.83	*	1.005-1.015	
Penta	PCB-121	*	*	n NotFη	1.62	*		1760	2.5	4.03	*	1.009-1.019	
Penta	PCB-84/92	*	*	n NotFη	1.05	*		1760	2.5	5.70	*	0.985-0.995	
Penta	PCB-89	*	*	n NotFη	1.13	*		1760	2.5	5.27	*	0.991-1.001	

Analyst: Dms

Date: 10/3/14

Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST141002E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	* n	NotFη	1.10	*		1760	2.5	5.41	*	0.995-1.005	
Penta	PCB-113	*	* n	NotFη	1.41	*		1760	2.5	4.23	*	1.002-1.012	
Penta	PCB-99	*	* n	NotFη	1.34	*		1760	2.5	4.46	*	1.004-1.014	
Penta	PCB-119	*	* n	NotFη	1.53	*		1760	2.5	4.30	*	0.982-0.992	
Penta	PCB-108/112	*	* n	NotFη	1.28	*		1760	2.5	5.15	*	0.986-0.996	
Penta	PCB-83	*	* n	NotFη	1.52	*		1760	2.5	4.34	*	0.990-1.000	
Penta	PCB-97	*	* n	NotFη	1.18	*		1760	2.5	5.57	*	0.995-1.005	
Penta	PCB-86	*	* n	NotFη	0.84	*		1760	2.5	7.82	*	0.999-1.009	
Penta	PCB-87/117/125	*	* n	NotFη	1.55	*		1760	2.5	4.25	*	1.002-1.012	
Penta	PCB-111/115	*	* n	NotFη	1.63	*		1760	2.5	4.03	*	1.006-1.016	
Penta	PCB-85/116	*	* n	NotFη	1.30	*		1760	2.5	5.06	*	1.010-1.020	
Penta	PCB-120	*	* n	NotFη	1.68	*		1760	2.5	3.93	*	1.016-1.026	
Penta	PCB-110	*	* n	NotFη	1.56	*		1760	2.5	4.23	*	1.020-1.030	
Penta	PCB-82	*	* n	NotFη	0.76	*		1760	2.5	6.74	*	0.971-0.981	
Penta	PCB-124	*	* n	NotFη	1.47	*		1760	2.5	3.48	*	0.988-0.998	
Penta	PCB-107/109	*	* n	NotFη	1.32	*		1760	2.5	3.87	*	0.991-1.001	
Penta	PCB-123	*	* n	NotFη	1.17	*		1760	2.5	4.38	*	0.996-1.006	
Penta	PCB-106/118	*	* n	NotFη	1.17	*		1760	2.5	4.24	*	0.996-1.006	
Penta	PCB-114	*	* n	NotFη	1.30	*		2390	2.5	4.16	*	0.995-1.005	
Penta	PCB-122	*	* n	NotFη	1.12	*		2390	2.5	4.82	*	0.999-1.009	
Penta	PCB-105	6.51e+04	1.48	y 43:11	1.30	3.89		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	* n	NotFη	1.33	*		2390	2.5	4.25	*	0.996-1.006	
Penta	PCB-126	8.05e+04	1.67	y 45:25	1.18	5.94		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	* n	NotFη	1.11	*		1360	2.5	4.01	*	0.966-1.006	
Hexa	PCB-150	*	* n	NotFη	1.00	*		1360	2.5	4.47	*	1.030-1.040	
Hexa	PCB-152	*	* n	NotFη	1.12	*		1360	2.5	4.00	*	1.043-1.053	
Hexa	PCB-145	*	* n	NotFη	1.20	*		1360	2.5	3.72	*	1.055-1.065	
Hexa	PCB-136	*	* n	NotFη	1.18	*		1360	2.5	3.79	*	1.064-1.074	
Hexa	PCB-148	*	* n	NotFη	0.74	*		1360	2.5	6.00	*	1.066-1.076	
Hexa	PCB-154	*	* n	NotFη	0.86	*		1360	2.5	5.21	*	1.080-1.090	
Hexa	PCB-151	*	* n	NotFη	0.75	*		1360	2.5	5.98	*	1.097-1.107	
Hexa	PCB-135	*	* n	NotFη	0.79	*		1360	2.5	5.64	*	1.103-1.113	
Hexa	PCB-144	*	* n	NotFη	0.76	*		1360	2.5	5.86	*	1.105-1.117	
Hexa	PCB-147	*	* n	NotFη	0.82	*		1360	2.5	5.45	*	1.109-1.121	
Hexa	PCB-139/149	8.32e+04	1.19	y 41:36	0.76	13.0		*	2.5	*	1.120	1.116-1.128	
Hexa	PCB-140	*	* n	NotFη	0.72	*		1360	2.5	6.19	*	1.121-1.133	
Hexa	PCB-134/143	*	* n	NotFη	0.92	*		1840	2.5	4.06	*	0.970-0.980	

Analyst: *Dms*

Date: *10/3/14*

Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST141002E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n NotFη	0.82	*		1840	2.5	4.54	*	0.977-0.987	
Hexa	PCB-131	*	*	n NotFη	0.91	*		1840	2.5	4.10	*	0.981-0.991	
Hexa	PCB-146/165	*	*	n NotFη	1.25	*		1840	2.5	2.98	*	0.986-0.996	
Hexa	PCB-132/161	*	*	n NotFη	1.10	*		1840	2.5	3.37	*	0.992-1.002	
Hexa	PCB-153	1.61e+05	1.07	y 43:20	1.25	9.13		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotFη	1.45	*		1840	2.5	2.57	*	1.001-1.011	
Hexa	PCB-141	*	*	n NotFη	1.09	*		1840	2.5	3.62	*	0.995-1.005	
Hexa	PCB-137	*	*	n NotFη	1.06	*		1840	2.5	3.70	*	1.004-1.014	
Hexa	PCB-130	*	*	n NotFη	0.96	*		1840	2.5	4.07	*	1.006-1.016	
Hexa	PCB-138/163/164	1.70e+05	1.24	y 44:56	1.29	9.98		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	*	*	n NotFη	1.34	*		1840	2.5	2.90	*	1.001-1.011	
Hexa	PCB-129	*	*	n NotFη	0.85	*		1840	2.5	4.56	*	1.007-1.017	
Hexa	PCB-166	*	*	n NotFη	1.19	*		1840	2.5	3.20	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotFη	1.11	*		1840	2.5	3.41	*	0.996-1.006	
Hexa	PCB-128/162	*	*	n NotFη	1.05	*		1840	2.5	3.62	*	1.002-1.012	
Hexa	PCB-167	*	*	n NotFη	1.20	*		1840	2.5	2.84	*	0.995-1.005	
Hexa	PCB-156	6.85e+04	0.85	n 48:11	1.14	4.36		*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-157	1.03e+05	1.37	y 48:26	1.16	5.85		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	9.58e+04	1.08	y 50:36	1.12	7.08		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-188	*	*	n NotFη	1.58	*		1940	2.5	2.13	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotFη	1.63	*		1940	2.5	2.06	*	1.006-1.016	
Hepta	PCB-179	*	*	n NotFη	1.30	*		1940	2.5	2.58	*	1.024-1.034	
Hepta	PCB-176	*	*	n NotFη	1.48	*		1940	2.5	2.28	*	1.035-1.045	
Hepta	PCB-186	*	*	n NotFη	1.45	*		1940	2.5	2.31	*	1.050-1.060	
Hepta	PCB-178	*	*	n NotFη	1.03	*		1940	2.5	3.25	*	1.061-1.071	
Hepta	PCB-175	*	*	n NotFη	1.01	*		1940	2.5	3.32	*	1.069-1.079	
Hepta	PCB-182/187	6.00e+04	1.12	y 46:16	1.25	4.49		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	*	*	n NotFη	1.21	*		1940	2.5	2.78	*	1.081-1.091	
Hepta	PCB-185	*	*	n NotFη	1.80	*		1940	2.5	2.63	*	0.951-0.961	
Hepta	PCB-174	*	*	n NotFη	1.38	*		1940	2.5	3.44	*	0.958-0.968	
Hepta	PCB-181	*	*	n NotFη	1.38	*		1940	2.5	3.43	*	0.960-0.970	
Hepta	PCB-177	*	*	n NotFη	1.26	*		1940	2.5	3.77	*	0.963-0.973	
Hepta	PCB-171	*	*	n NotFη	1.58	*		1940	2.5	2.99	*	0.970-0.980	
Hepta	PCB-173	*	*	n NotFη	1.11	*		1940	2.5	4.27	*	0.978-0.988	
Hepta	PCB-172	*	*	n NotFη	1.63	*		1940	2.5	2.90	*	0.987-0.997	
Hepta	PCB-192	*	*	n NotFη	1.74	*		1940	2.5	2.72	*	0.991-1.001	
Hepta	PCB-180	*	*	n NotFη	1.34	*		1940	2.5	3.52	*	0.995-1.005	

Analyst: *DMS*

Date: *10/31/14*

Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST141002E1-1  
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	* n	NotFη	1.72	*		1940	2.5	2.76	*	0.999-1.009	
Hepta	PCB-191	*	* n	NotFη	1.69	*		1940	2.5	2.80	*	1.004-1.014	
Hepta	PCB-170	*	* n	NotFη	1.60	*		1940	2.5	3.43	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotFη	2.21	*		1940	2.5	2.48	*	0.998-1.008	
Hepta	PCB-189	4.63e+04	0.81 n	52:26	1.55	4.50	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	*	* n	NotFη	1.08	*		1620	2.5	3.83	*	0.995-1.005	
Octa	PCB-201	*	* n	NotFη	1.15	*		1620	2.5	3.61	*	1.005-1.015	
Octa	PCB-204	*	* n	NotFη	1.14	*		1620	2.5	3.64	*	1.008-1.018	
Octa	PCB-197	*	* n	NotFη	1.07	*		1620	2.5	3.86	*	1.015-1.025	
Octa	PCB-200	*	* n	NotFη	1.06	*		1620	2.5	3.90	*	1.032-1.044	
Octa	PCB-198	*	* n	NotFη	0.76	*		1620	2.5	5.49	*	1.059-1.069	
Octa	PCB-199	*	* n	NotFη	0.80	*		1620	2.5	5.20	*	1.061-1.071	
Octa	PCB-196/203	*	* n	NotFη	0.80	*		1620	2.5	5.17	*	1.066-1.076	
Octa	PCB-195	*	* n	NotFη	1.23	*		1400	2.5	2.95	*	0.979-0.989	
Octa	PCB-194	1.97e+04	0.50 n	53:57	1.21	2.27	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	*	* n	NotFη	1.54	*		1400	2.5	2.35	*	1.001-1.011	
Nona	PCB-208	*	* n	NotFη	0.93	*		1380	2.5	1.96	*	0.995-1.005	
Nona	PCB-207	*	* n	NotFη	1.08	*		1380	2.5	1.68	*	1.001-1.011	
Nona	PCB-206	2.57e+04	1.22 y	55:37	1.02	3.78		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	*	* n	NotFη	1.17	*		*	2.5	*	*	0.995-1.005	

Analyst: *Dms*

Date: *10/3/14*

Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.0000 EndCAL: NA

ConCal: ST141002E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.27	*	
Total Di-PCB	*	* n	NotFnd	1.21	*	
Total Tri-PCB	8.84e+04	1.11 y	24:20	1.10	6.30148	
Total Tri-PCB	*	* n	NotFnd	1.21	*	Sum:6.30148
Total Tetra-PCB	1.22e+05	0.69 y	39:45	1.09	6.69730	
Total Penta-PCB	*	* n	NotFnd	1.18	*	
Total Penta-PCB	1.46e+05	1.48 y	43:11	1.25	9.83028	Sum:9.83028
Total Hexa-PCB	8.32e+04	1.19 y	41:36	0.90	12.9665	
Total Hexa-PCB	5.30e+05	1.07 y	43:20	1.11	32.0333	Sum:44.9998
Total Hepta-PCB	6.00e+04	1.12 y	46:16	1.42	4.49215	
Total Octa-PCB	*	* n	NotFnd	0.96	*	
Total Octa-PCB	*	* n	NotFnd	1.33	*	Sum:0.00000
Total Nona-PCB	2.57e+04	1.22 y	55:37	1.01	3.78457	
Total Deca-PCB	*	* n	NotFnd	1.17	*	

Total PCB Conc:118.824414000

Integrations

by  
Analyst: DMS

Date: 10/3/14

Client ID: Method Blank  
Lab ID: B4I0107-BLK1

Filename: 141002E1 S:4 Acq: 2-OCT-14 13:12:48  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:2.0000

ConCal: ST141002E1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	6.35e+08	3.40 y	0.87	16:13	0.623	0.629-0.635	X	20000	80.2
13C-PCB-3	6.86e+08	3.41 y	0.91	18:50	0.723	0.725-0.733		20700	82.9
13C-PCB-4	4.11e+08	1.59 y	0.59	20:10	0.774	0.775-0.783		19300	77.2
13C-PCB-9	6.25e+08	1.58 y	0.90	21:57	0.843	0.842-0.850		19200	76.8
13C-PCB-11	6.72e+08	1.56 y	0.94	25:20	0.973	0.968-0.978		19700	78.9
13C-PCB-19	3.36e+08	1.11 y	0.53	24:19	0.934	0.930-0.940		17400	69.7
13C-PCB-28	3.94e+08	0.99 y	0.93	29:11	1.004	0.999-1.009		23800	95.4
13C-PCB-32	5.24e+08	1.12 y	0.80	27:14	1.046	1.040-1.050		18100	72.5
13C-PCB-37	3.37e+08	1.01 y	0.84	33:04	1.137	1.131-1.143		22700	90.6
13C-PCB-47	3.74e+08	0.77 y	0.81	32:06	0.871	0.866-0.874		20900	83.7
13C-PCB-52	3.59e+08	0.77 y	0.77	31:35	0.857	0.853-0.861		21200	84.7
13C-PCB-54	4.29e+08	0.79 y	0.97	28:04	0.762	0.758-0.766		20100	80.5
13C-PCB-70	4.72e+08	0.78 y	1.00	35:37	0.966	0.961-0.971		21500	86.0
13C-PCB-77	4.13e+08	0.78 y	0.94	39:44	1.078	1.073-1.083		19900	79.7
13C-PCB-80	4.88e+08	0.78 y	1.03	36:02	0.978	0.972-0.982		21500	86.1
13C-PCB-81	4.23e+08	0.78 y	0.92	39:09	1.062	1.057-1.067		20900	83.5
13C-PCB-95	2.19e+08	1.61 y	0.74	35:54	0.913	0.908-0.918		22400	89.6
13C-PCB-97	2.13e+08	1.62 y	0.70	38:54	0.989	0.984-0.994		22900	91.5
13C-PCB-101	2.38e+08	1.62 y	0.78	37:36	0.956	0.951-0.961		23000	91.9
13C-PCB-104	2.90e+08	1.60 y	1.00	32:45	0.833	0.828-0.836		21900	87.6
13C-PCB-105	3.22e+08	1.54 y	1.37	43:10	0.929	0.924-0.934		18200	72.6
13C-PCB-114	3.48e+08	1.57 y	1.36	42:19	0.910	0.905-0.915		19700	78.6
13C-PCB-118	2.90e+08	1.62 y	0.96	41:39	1.059	1.054-1.064		22900	91.5
13C-PCB-123	2.77e+08	1.61 y	0.89	41:28	1.054	1.050-1.060		23400	93.8
13C-PCB-126	2.87e+08	1.57 y	1.31	45:25	0.977	0.972-0.982		16900	67.7
13C-PCB-127	3.32e+08	1.52 y	1.47	43:30	0.936	0.931-0.941		17400	69.5
13C-PCB-138	3.30e+08	1.27 y	1.10	44:55	0.966	0.961-0.971		23100	92.6
13C-PCB-141	3.27e+08	1.29 y	1.07	44:04	0.948	0.943-0.953		23400	93.8
13C-PCB-153	3.53e+08	1.28 y	1.15	43:19	0.932	0.927-0.937		23700	94.8
13C-PCB-155	2.11e+08	1.31 y	0.84	37:08	0.944	0.939-0.949		19000	76.0
13C-PCB-156	3.46e+08	1.28 y	1.30	48:10	1.037	1.032-1.042		20600	82.3
13C-PCB-157	3.78e+08	1.28 y	1.36	48:26	1.042	1.038-1.048		21500	85.9
13C-PCB-159	3.50e+08	1.27 y	1.25	46:11	0.994	0.989-0.999		21600	86.6
13C-PCB-167	3.77e+08	1.27 y	1.35	46:53	1.009	1.004-1.014		21500	86.0
13C-PCB-169	3.02e+08	1.26 y	1.29	50:36	1.089	1.083-1.093		18100	72.6
13C-PCB-170	1.45e+08	0.47 y	0.54	50:57	1.096	1.089-1.101		20600	82.3
13C-PCB-180	1.83e+08	0.47 y	0.68	49:28	1.064	1.060-1.070		20600	82.4
13C-PCB-188	2.67e+08	0.47 y	0.92	42:57	0.924	0.919-0.929		22400	89.7
13C-PCB-189	1.66e+08	0.46 y	0.72	52:27	1.129	1.120-1.132		17900	71.6
13C-PCB-194	1.79e+08	0.89 y	0.80	53:57	0.995	0.990-1.000		23500	94.0
13C-PCB-202	2.29e+08	0.91 y	0.84	48:23	1.041	1.036-1.046		21000	84.2
13C-PCB-206	1.66e+08	0.80 y	0.65	55:36	1.025	1.021-1.031		26700	107
13C-PCB-208	3.10e+08	0.77 y	1.08	53:13	0.981	0.976-0.986		30000	120
13C-PCB-209	1.56e+08	1.20 y	0.61	56:58	1.050	1.045-1.055		26800	107

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.85e+08	0.77 y	1.02	37:55	1.029	1.023-1.034		21700	86.9
13C-PCB-178	1.83e+08	0.46 y	0.61	45:45	0.984	0.979-0.990		23000	92.1

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.85e+08	0.77 y	1.10	37:55	0.969	0.964-0.974		26000	104
13C-PCB-178	1.83e+08	0.46 y	0.90	45:45	0.925	0.920-0.930		27900	112

RS

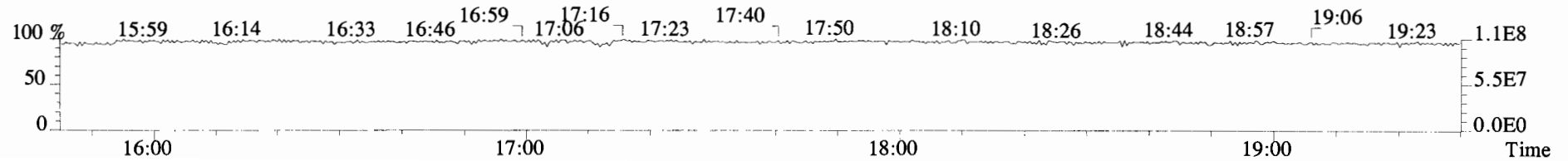
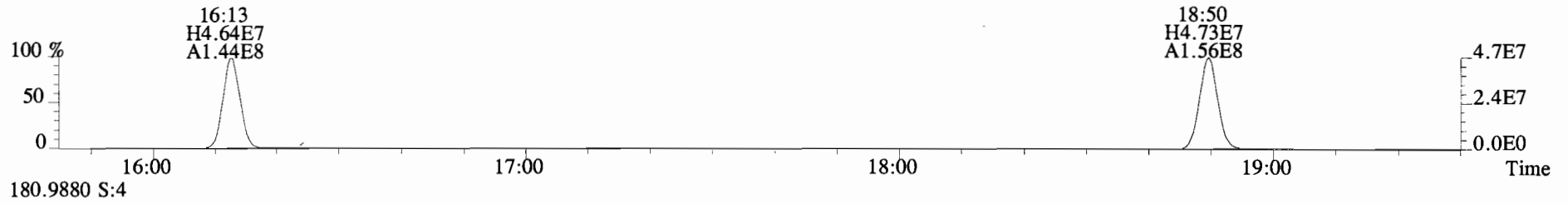
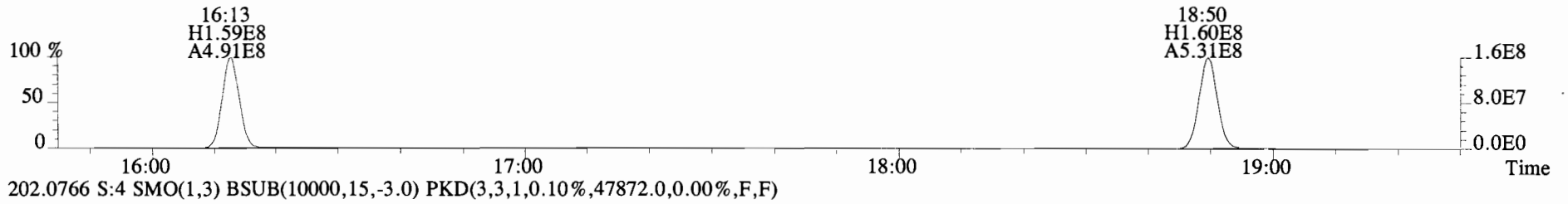
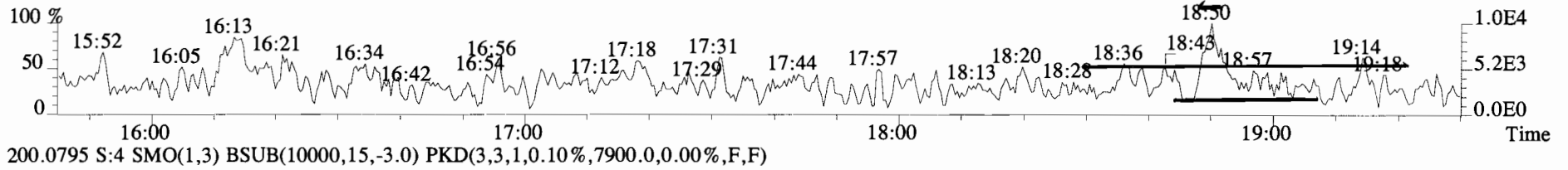
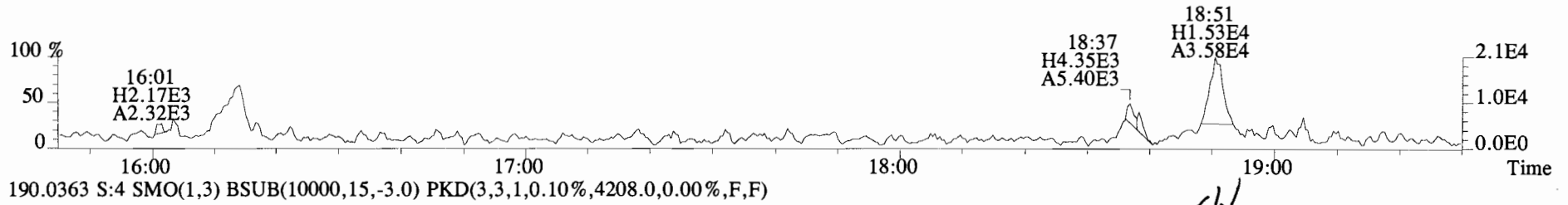
Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	9.07e+08	1.57 y	1.00	26:02	25000
13C-PCB-31	4.43e+08	0.98 y	1.00	29:04	25000
13C-PCB-60	5.49e+08	0.78 y	1.00	36:51	25000
13C-PCB-111	3.30e+08	1.61 y	1.00	39:20	25000
13C-PCB-128	3.24e+08	1.27 y	1.00	46:28	25000
13C-PCB-205	2.39e+08	0.87 y	1.00	54:14	25000

X within 1668c method limits

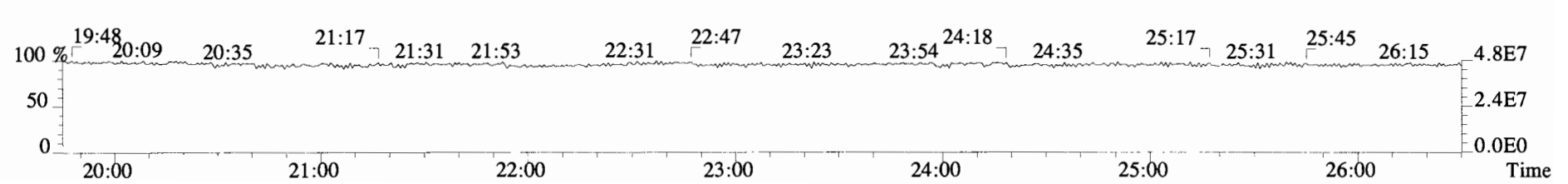
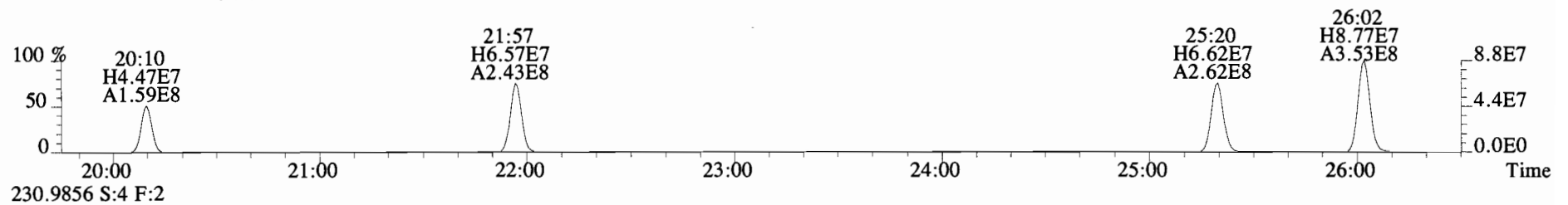
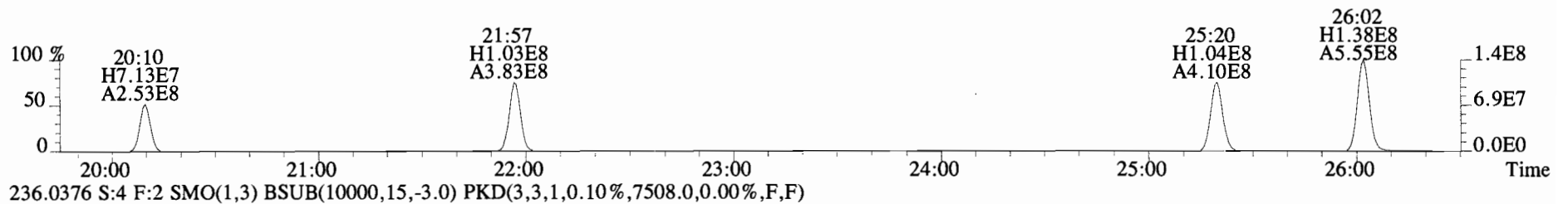
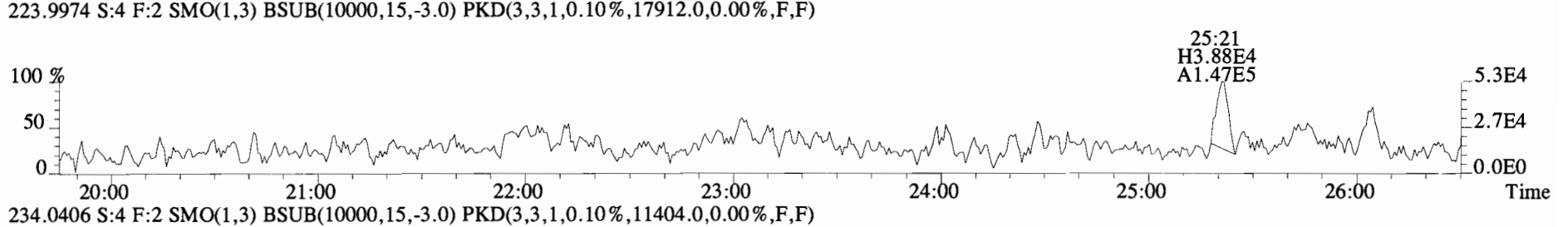
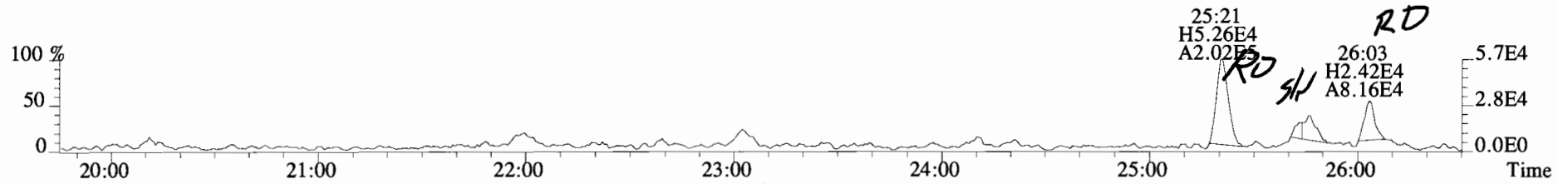
Analyst: DMS

Date: 10/3/14

File:141002E1 #1-728 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2968.0,0.00%,F,F)

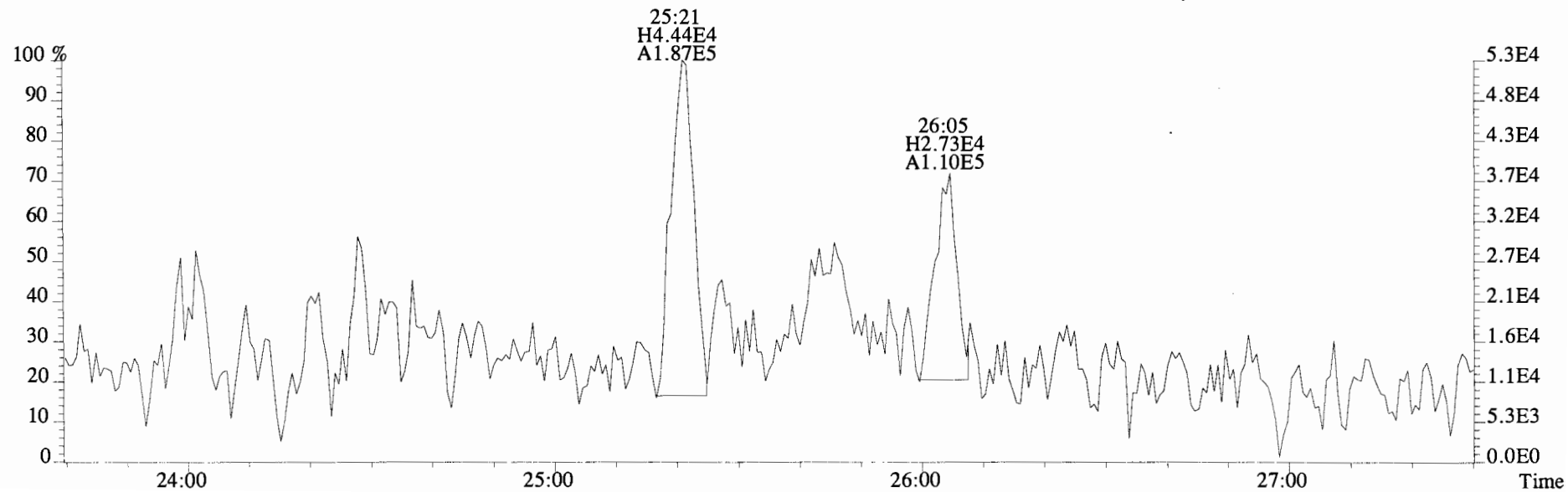
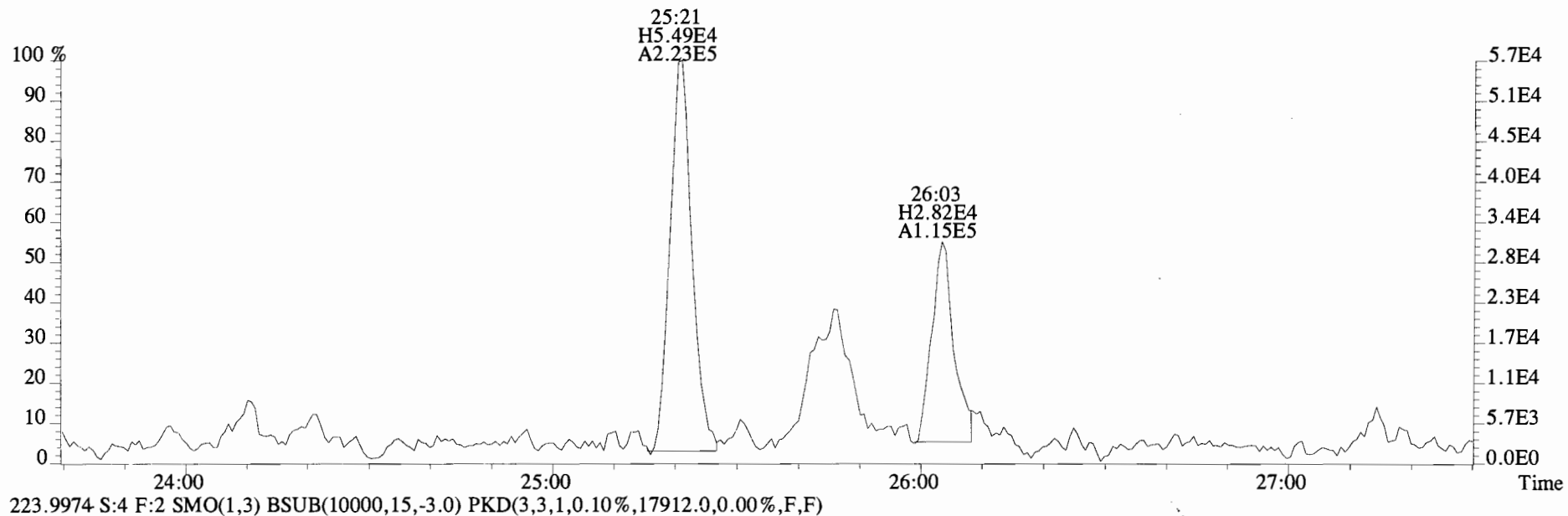


File:141002E1 #1-757 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
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222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3940.0,0.00%,F,F)

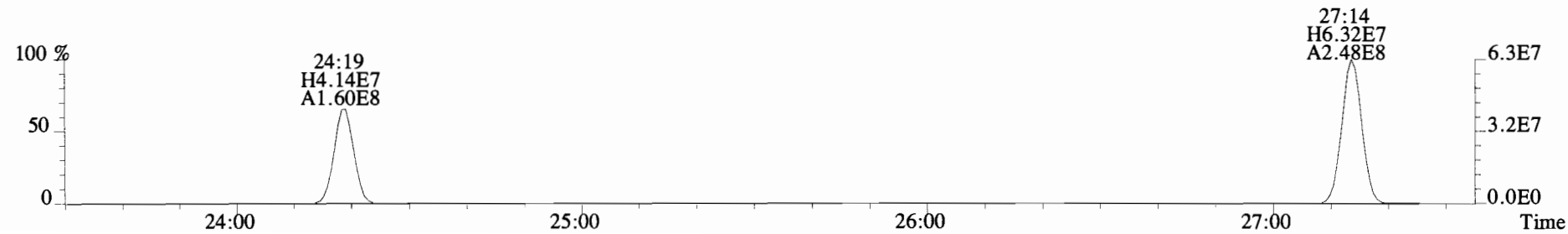
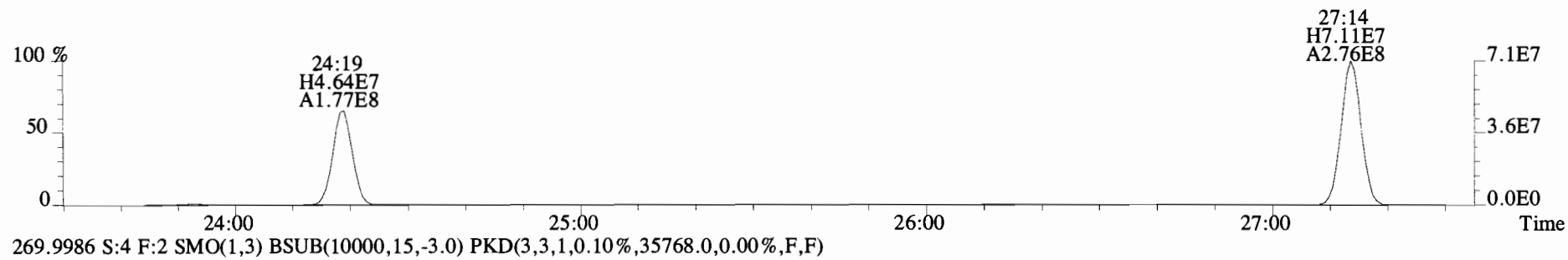
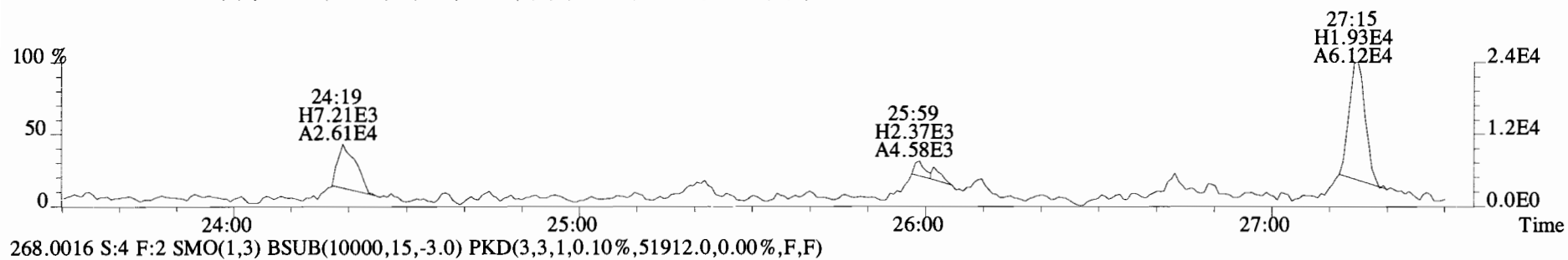
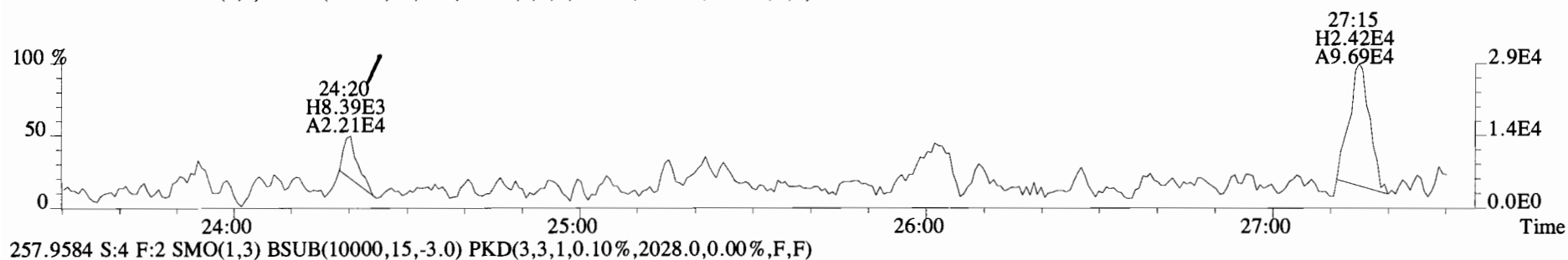




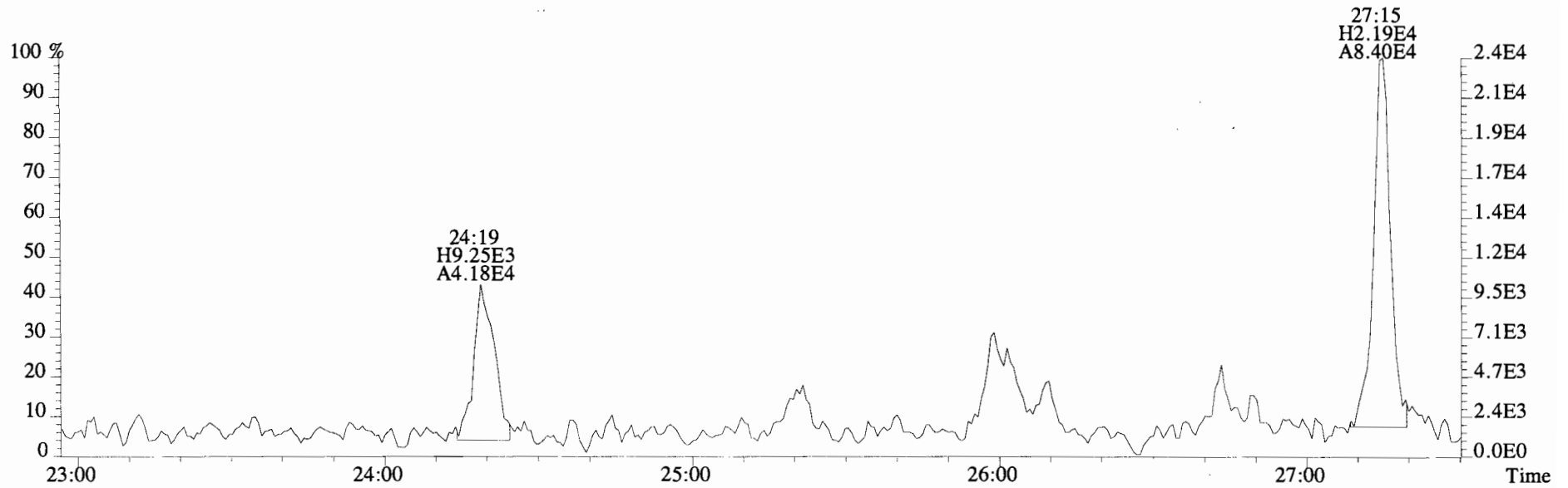
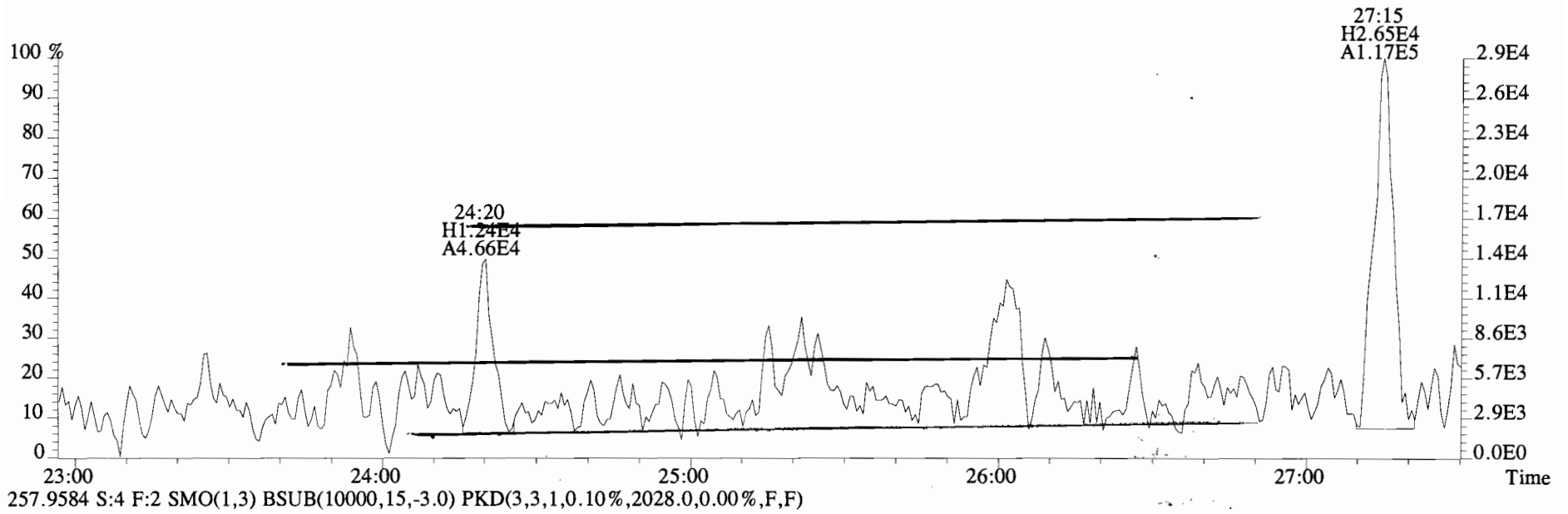
File:141002E1 #1-757 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3940.0,0.00%,F,F)



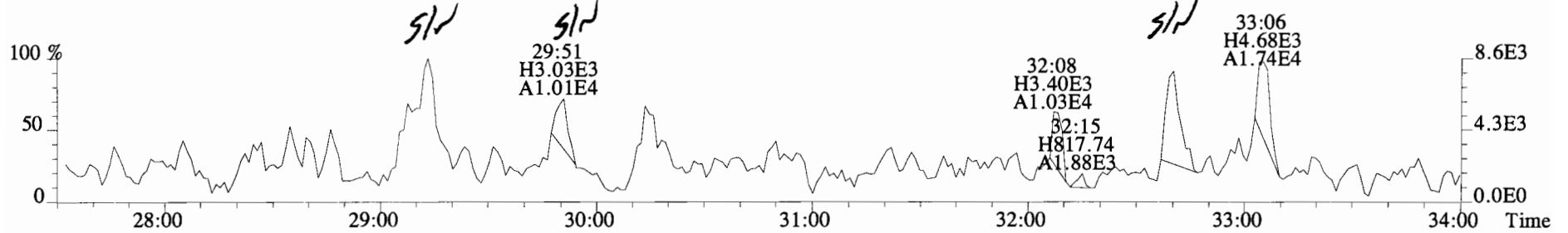
File:141002E1 #1-757 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5472.0,0.00%,F,F)



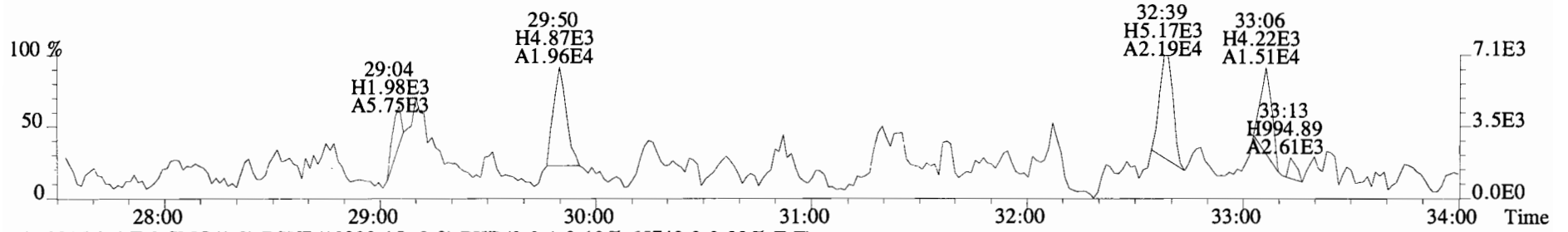
File:141002E1 #1-757 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5472.0,0.00%,F,F)



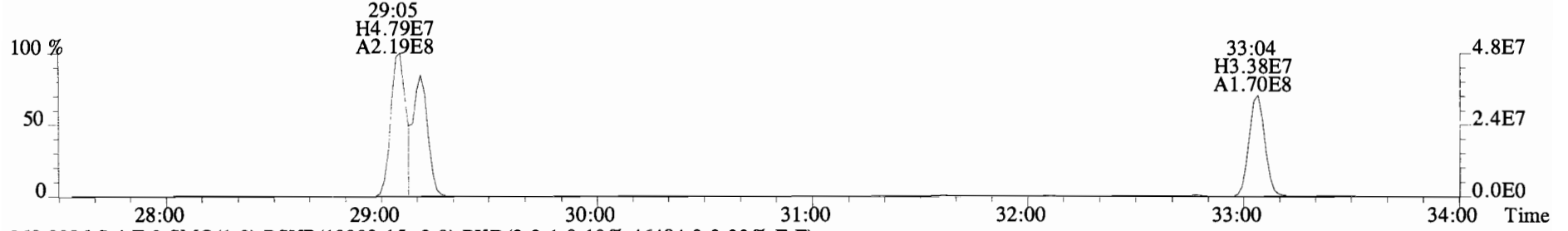
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



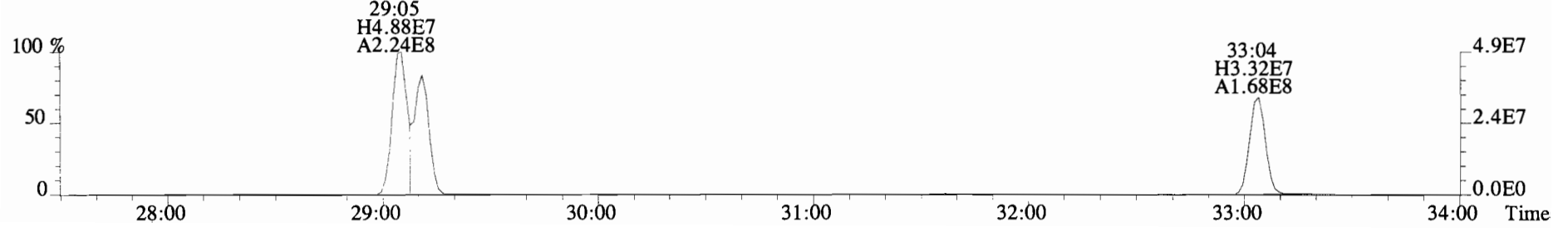
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



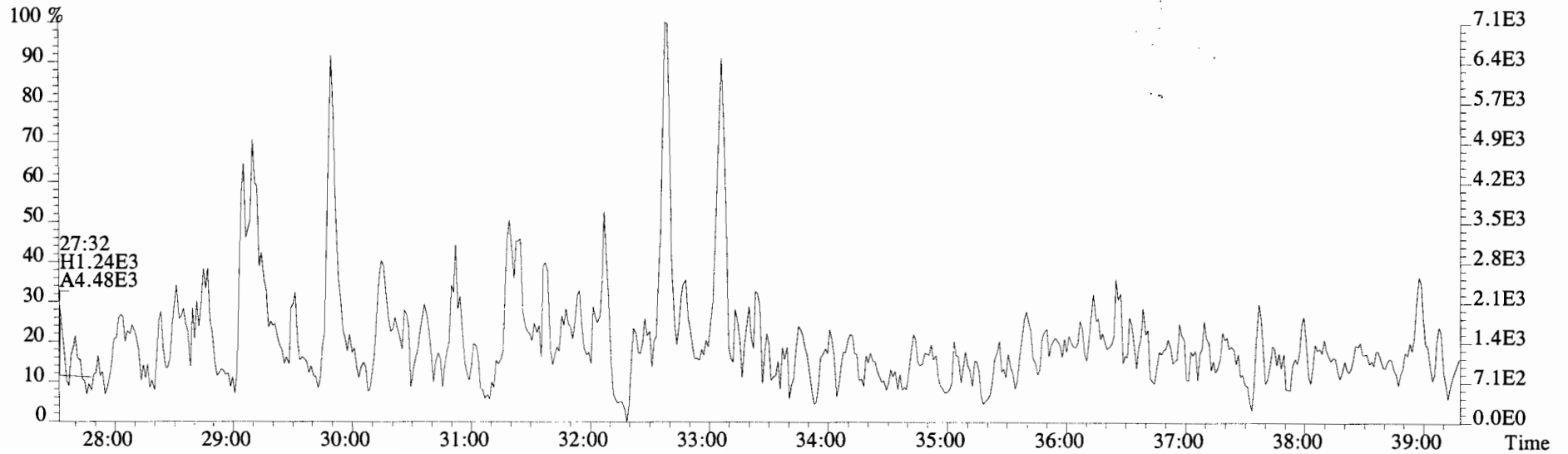
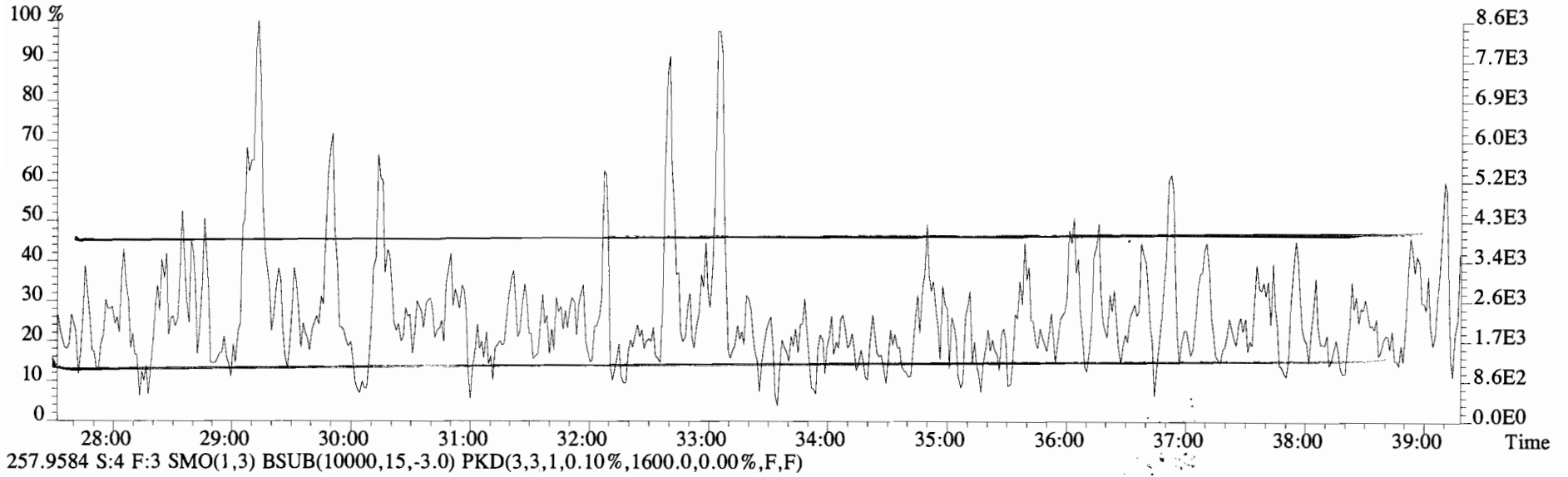
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,65740.0,0.00%,F,F)



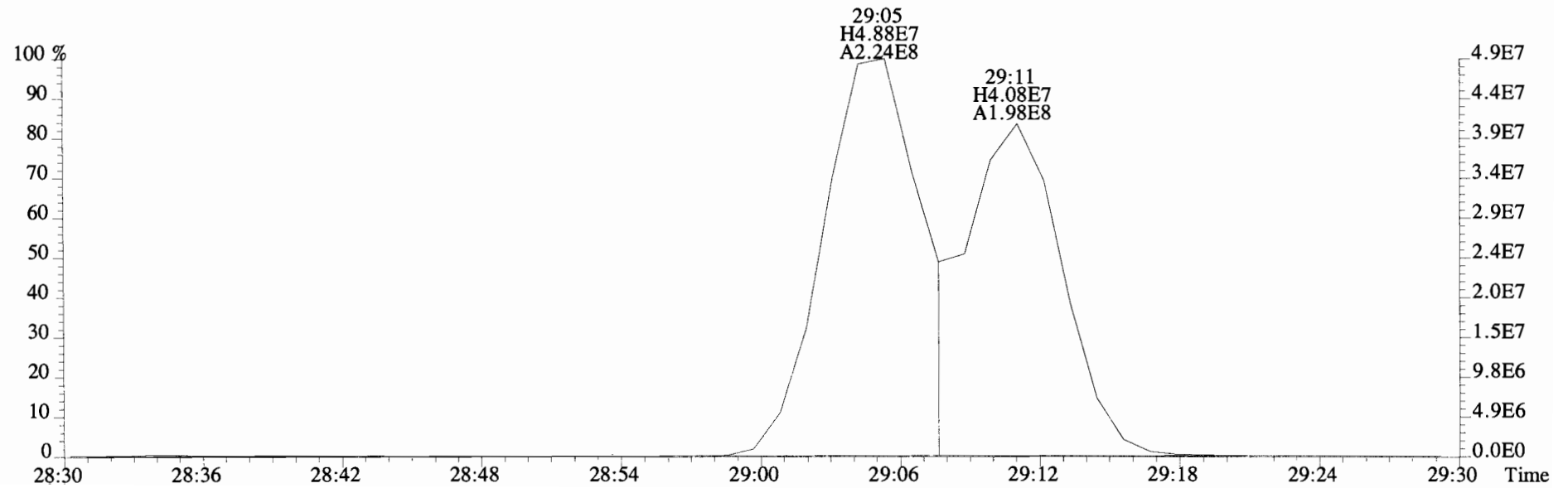
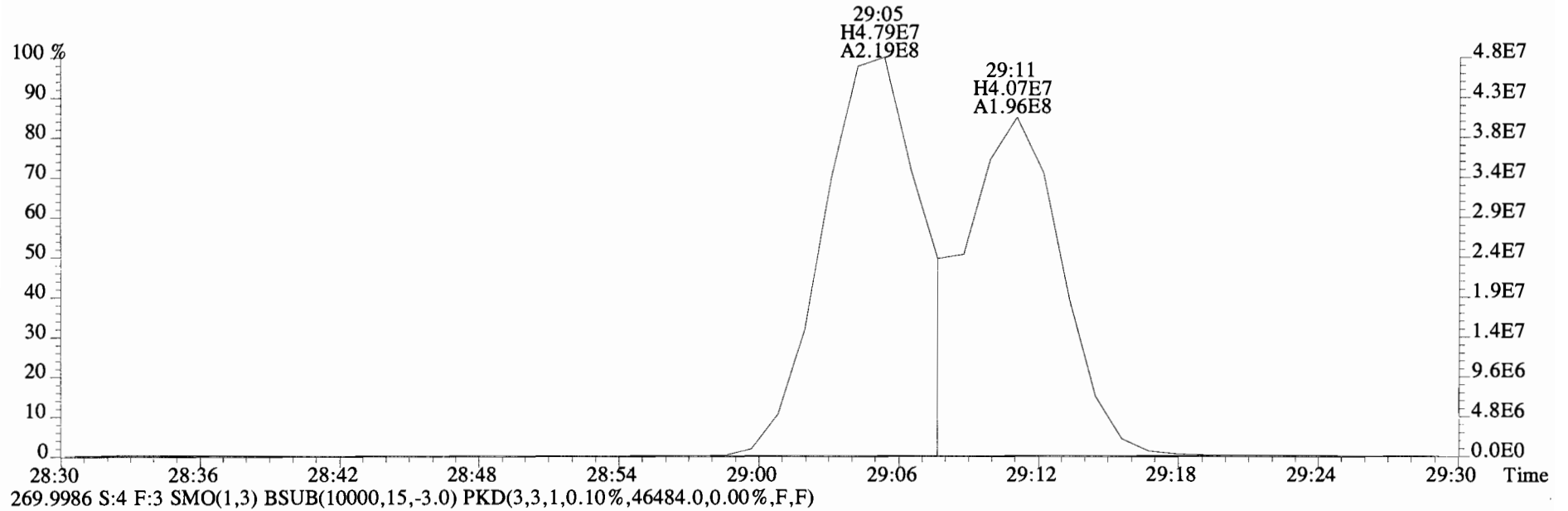
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46484.0,0.00%,F,F)



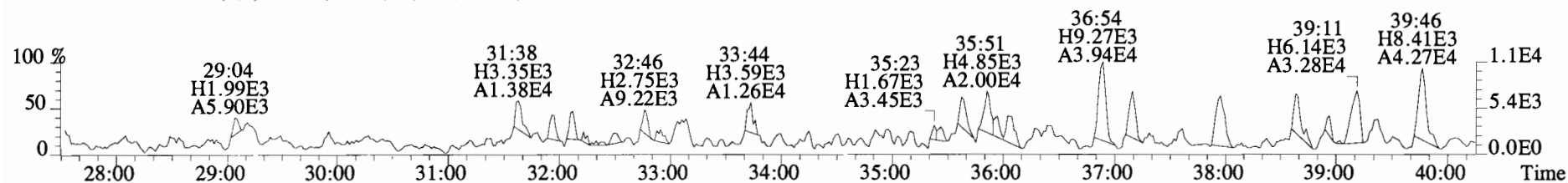
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



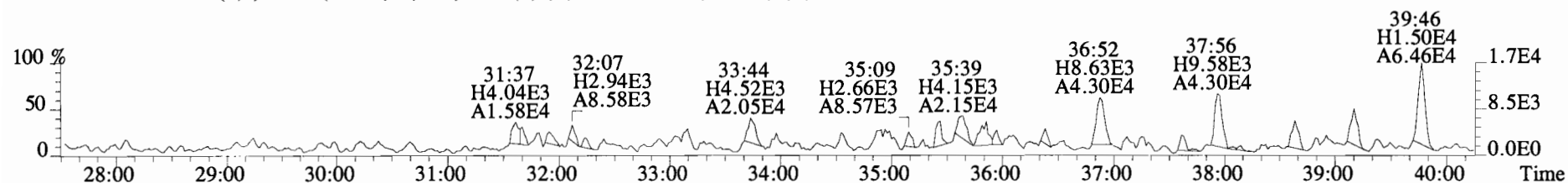
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,65740.0,0.00%,F,F)



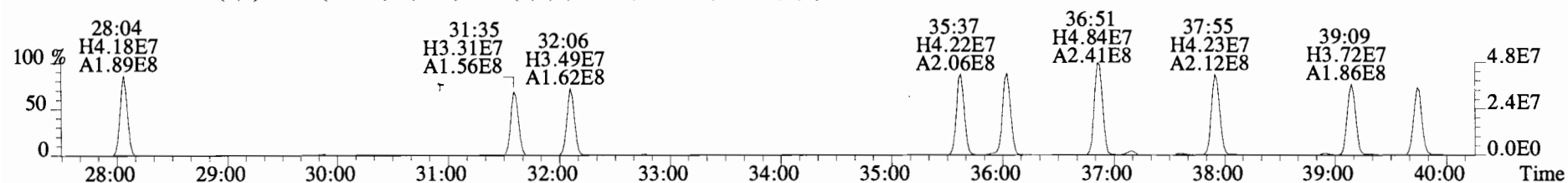
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



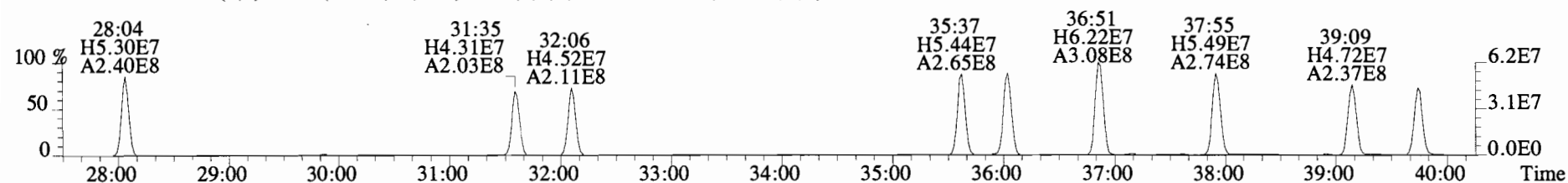
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1916.0,0.00%,F,F)



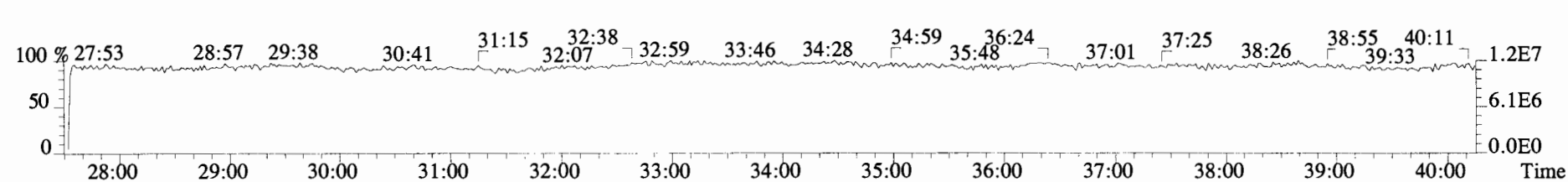
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17888.0,0.00%,F,F)



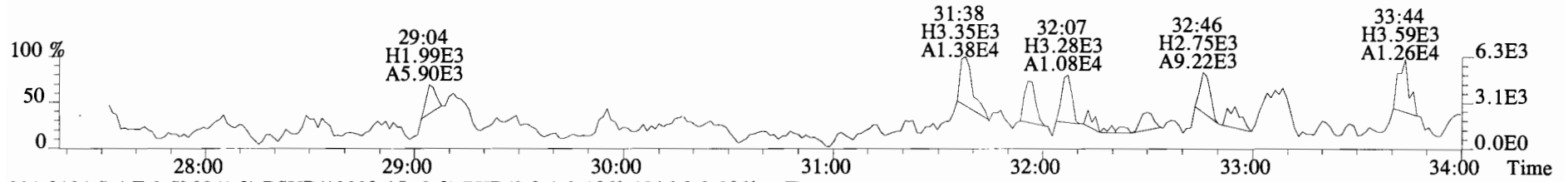
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20224.0,0.00%,F,F)



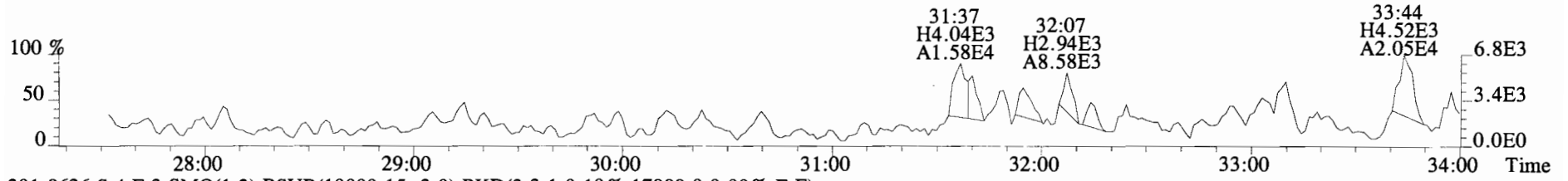
330.9792 S:4 F:3



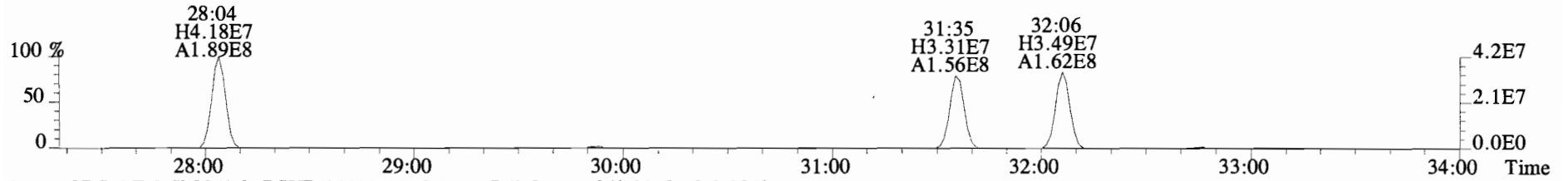
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



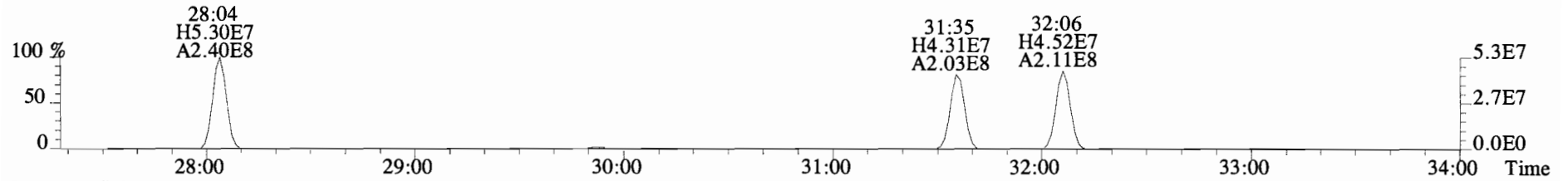
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1916.0,0.00%,F,F)



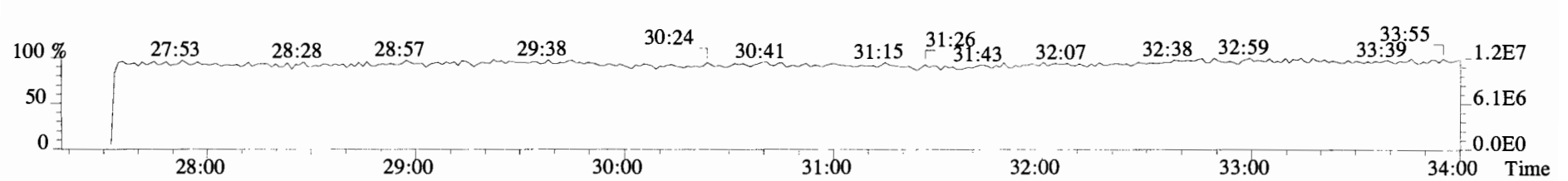
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17888.0,0.00%,F,F)



303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20224.0,0.00%,F,F)

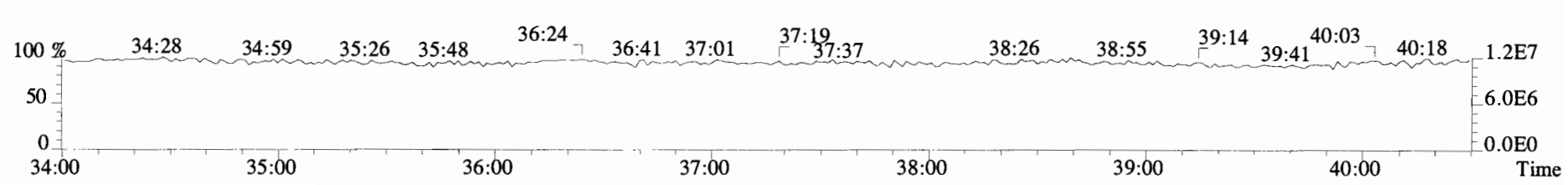
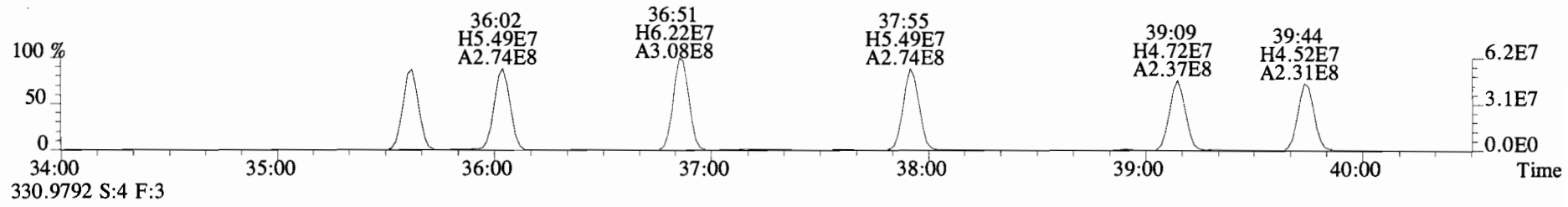
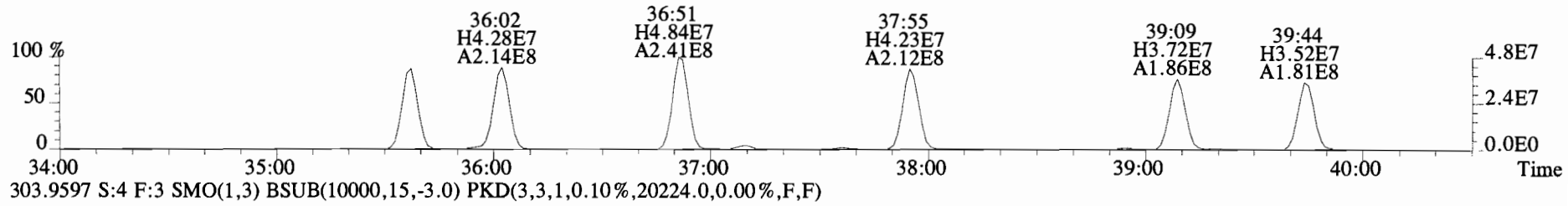
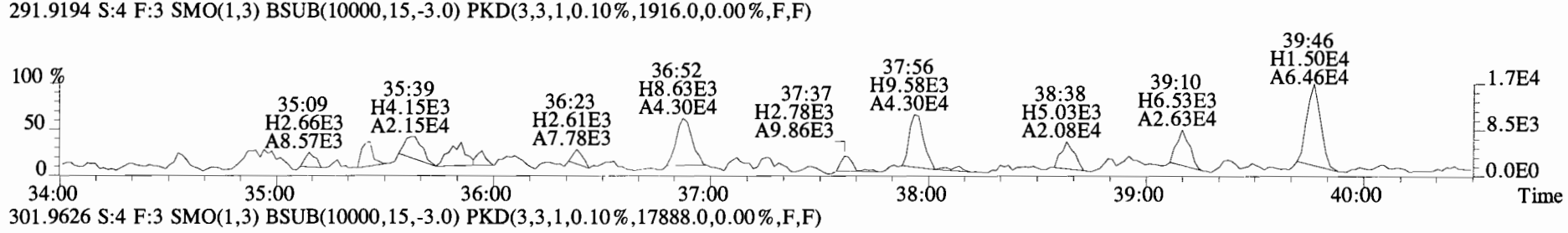
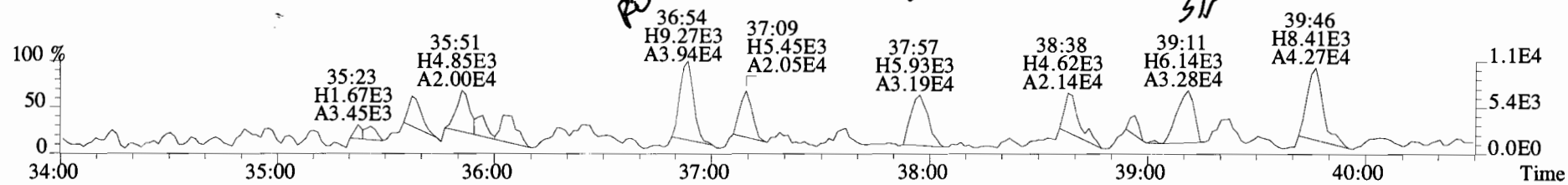


330.9792 S:4 F:3

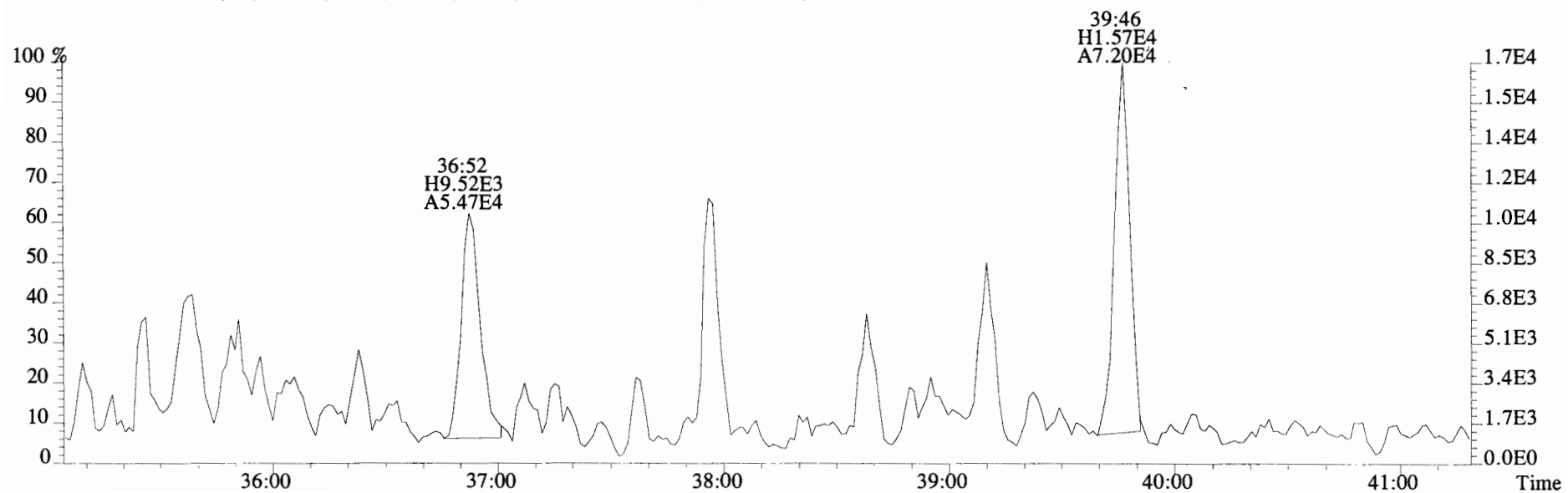
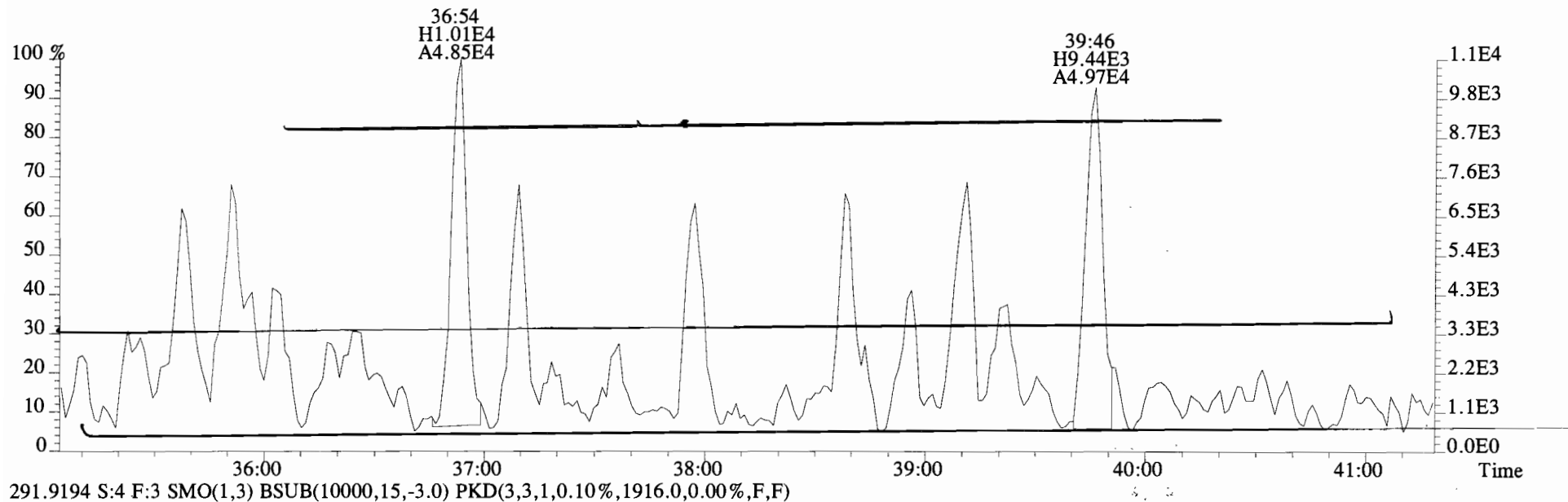




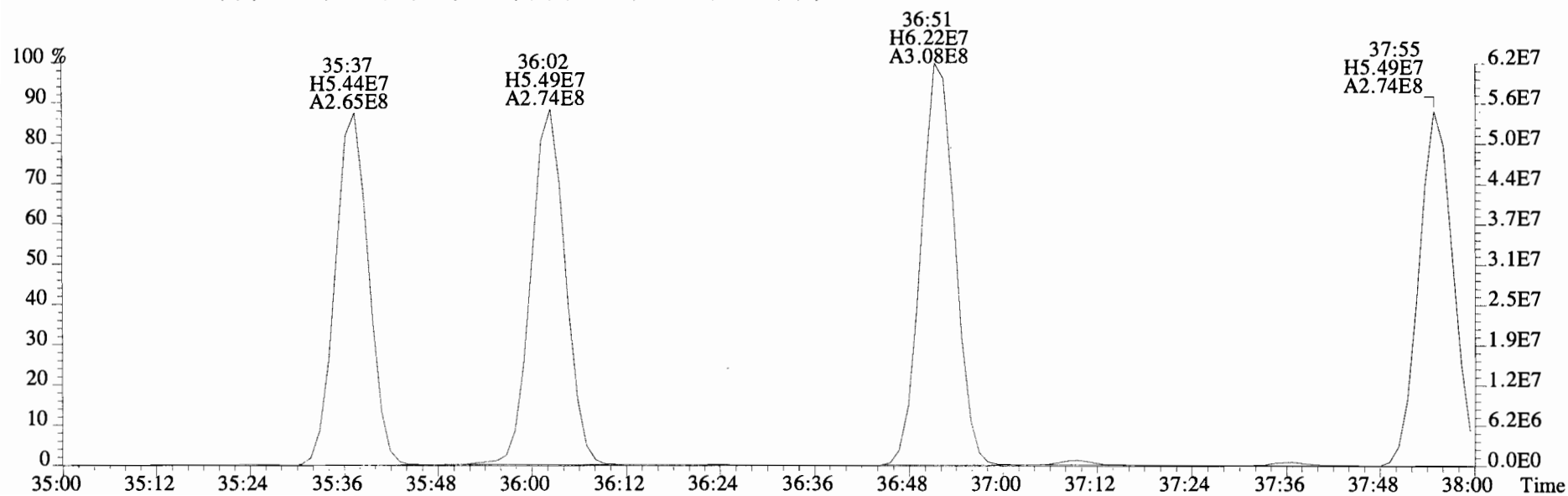
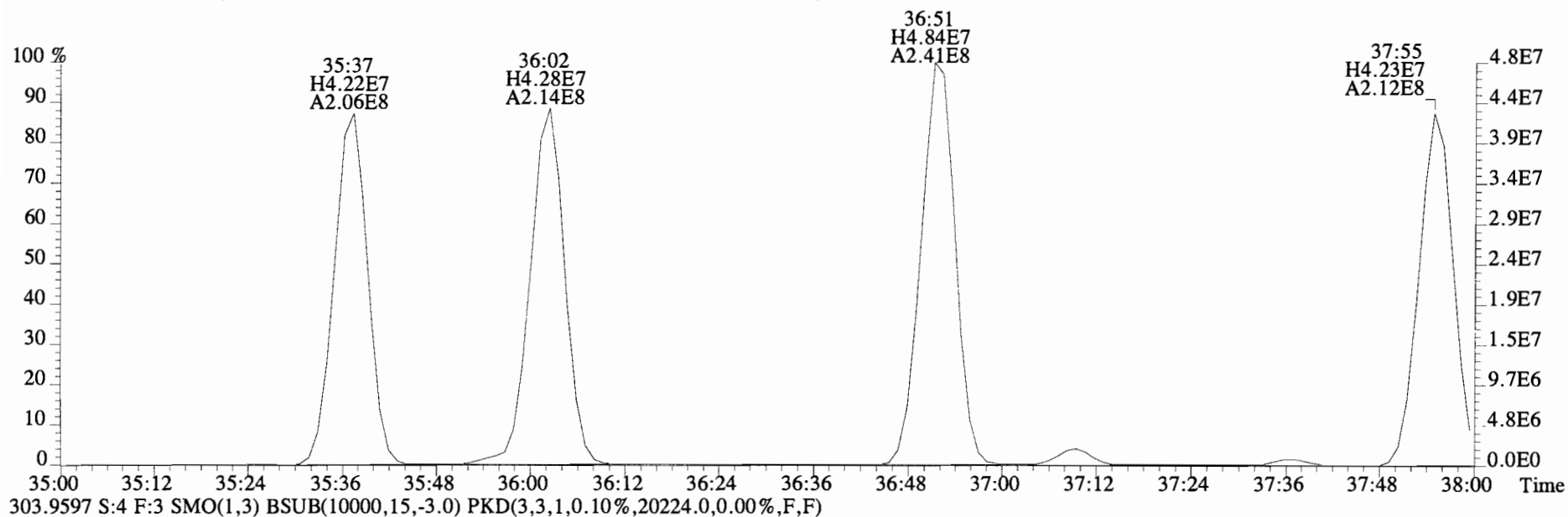
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BLK1 Method Blank 2 Exp: PCB ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10% 1736.0,0.00%,F,F)



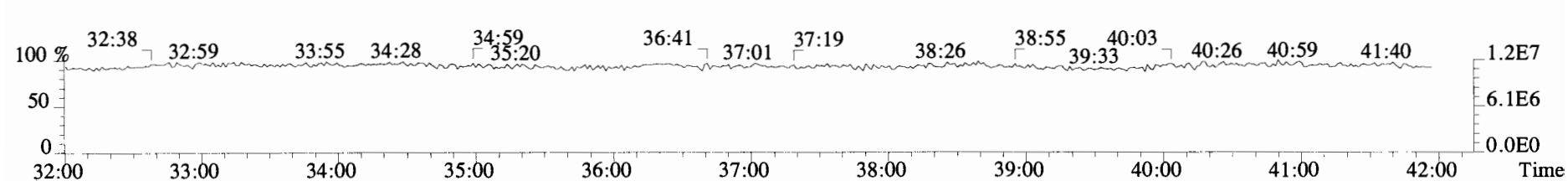
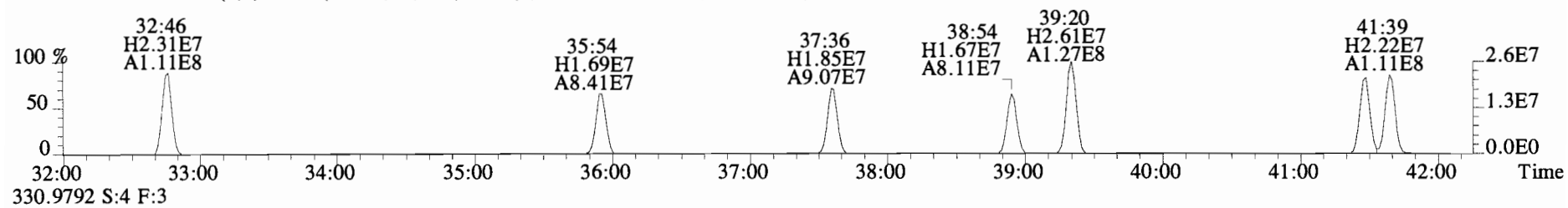
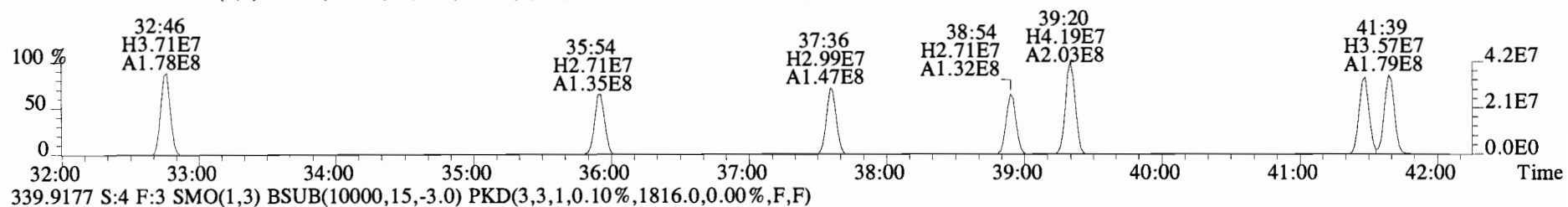
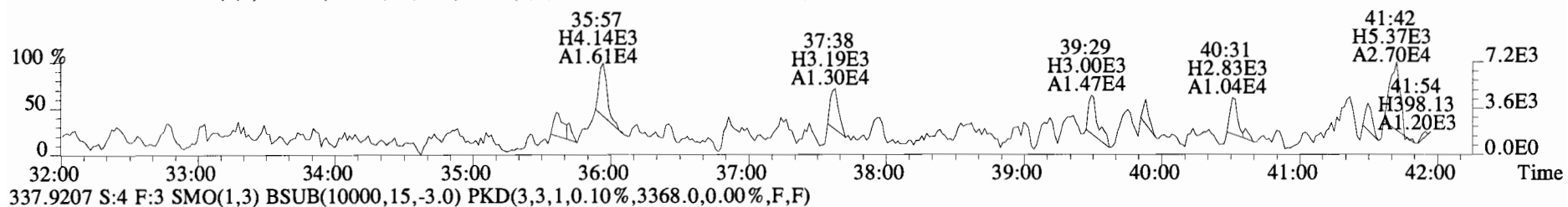
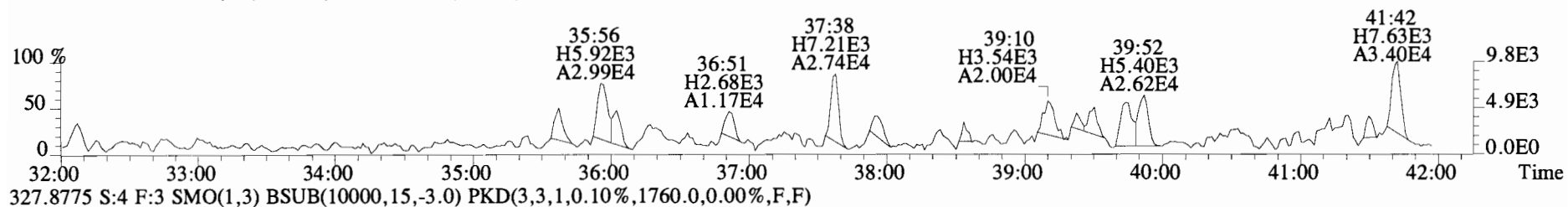
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



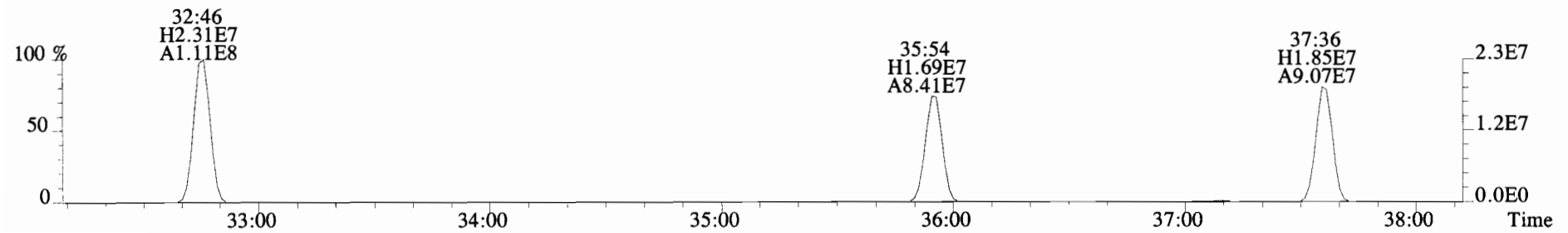
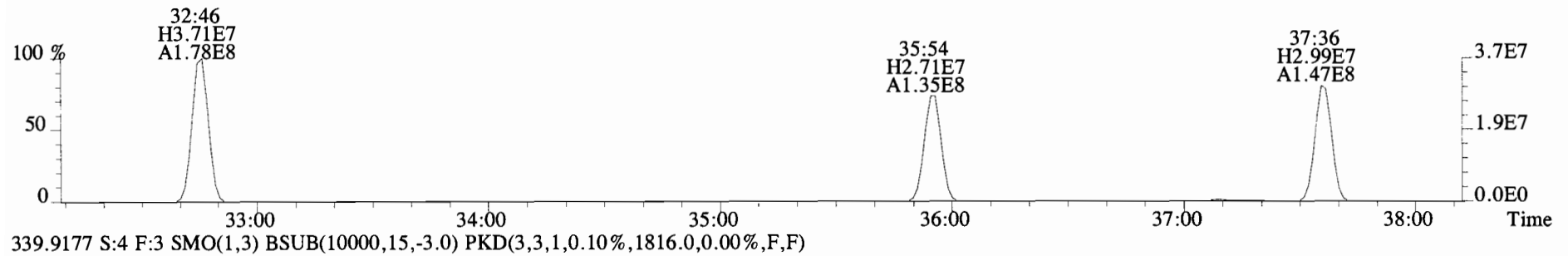
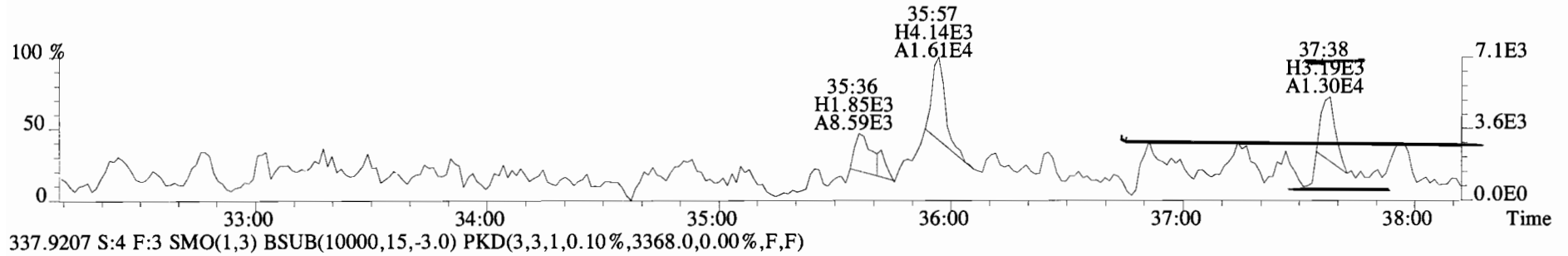
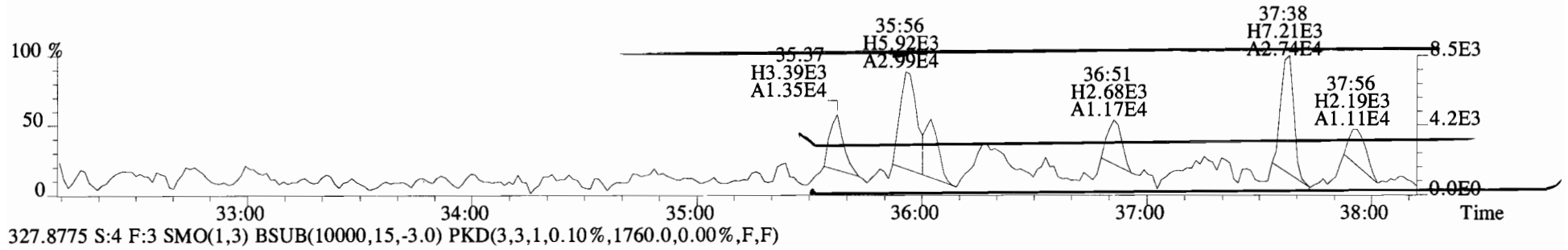
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17888.0,0.00%,F,F)



File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)

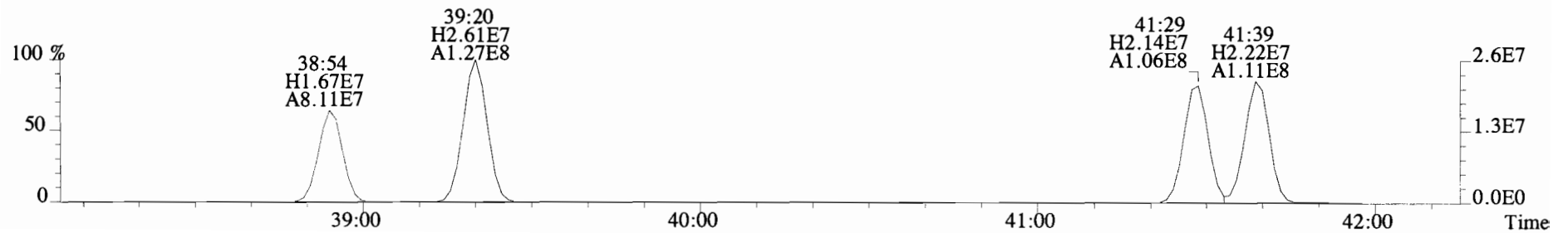
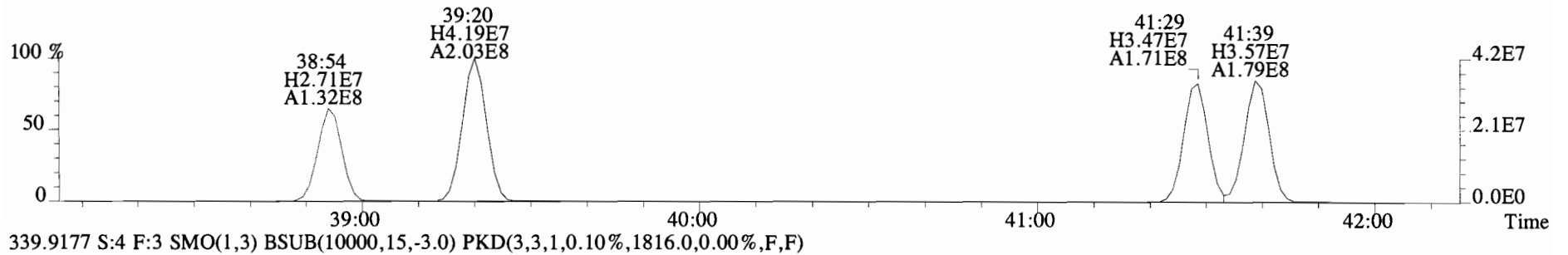
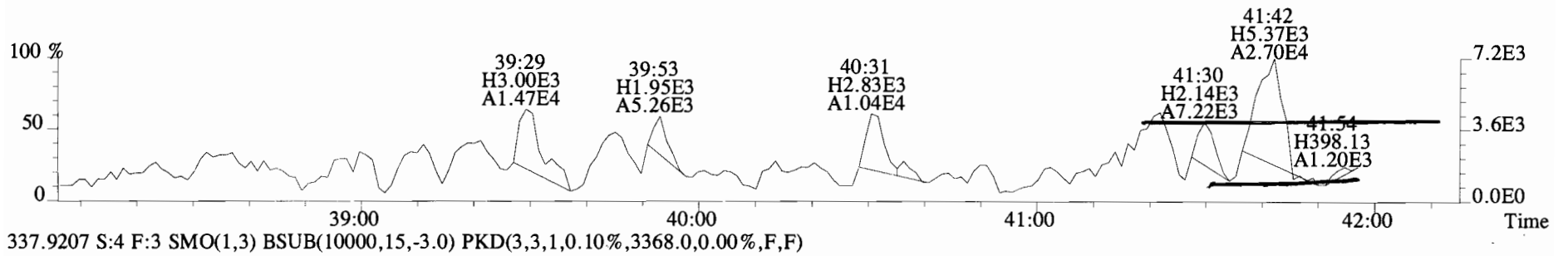
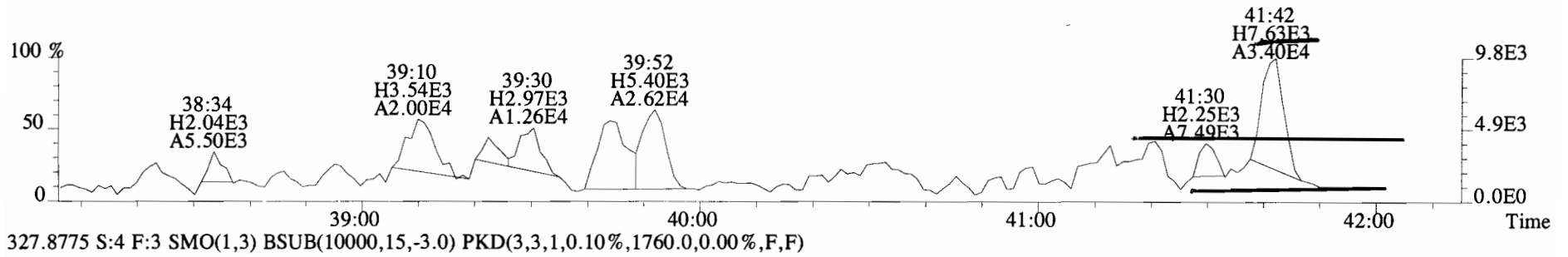


File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)

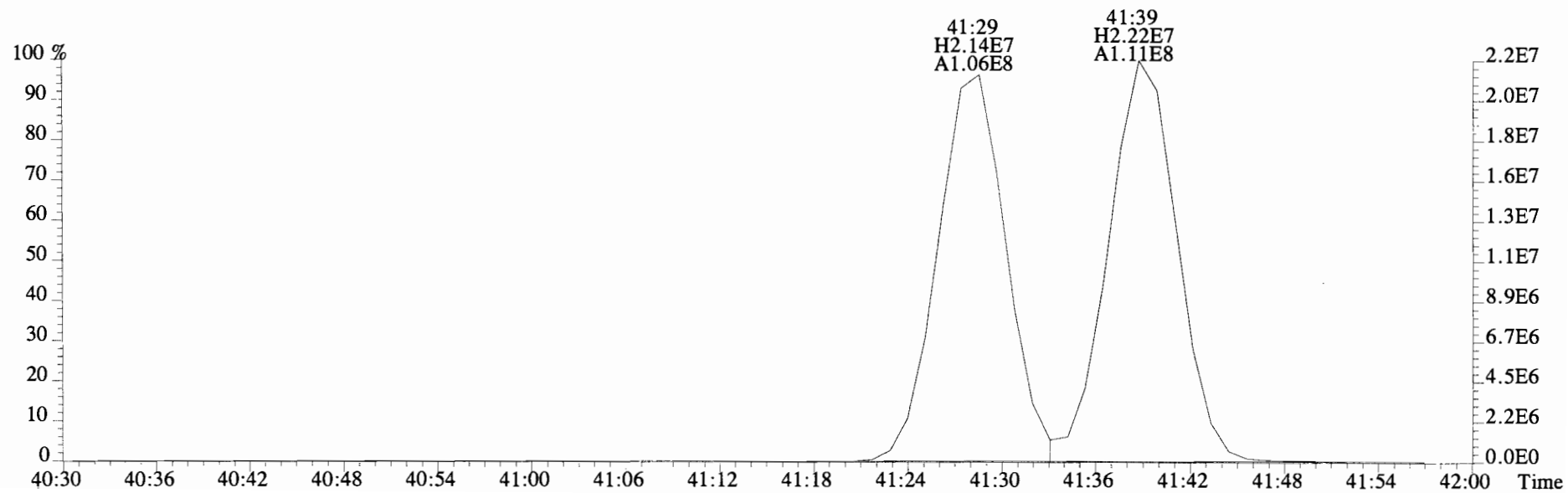
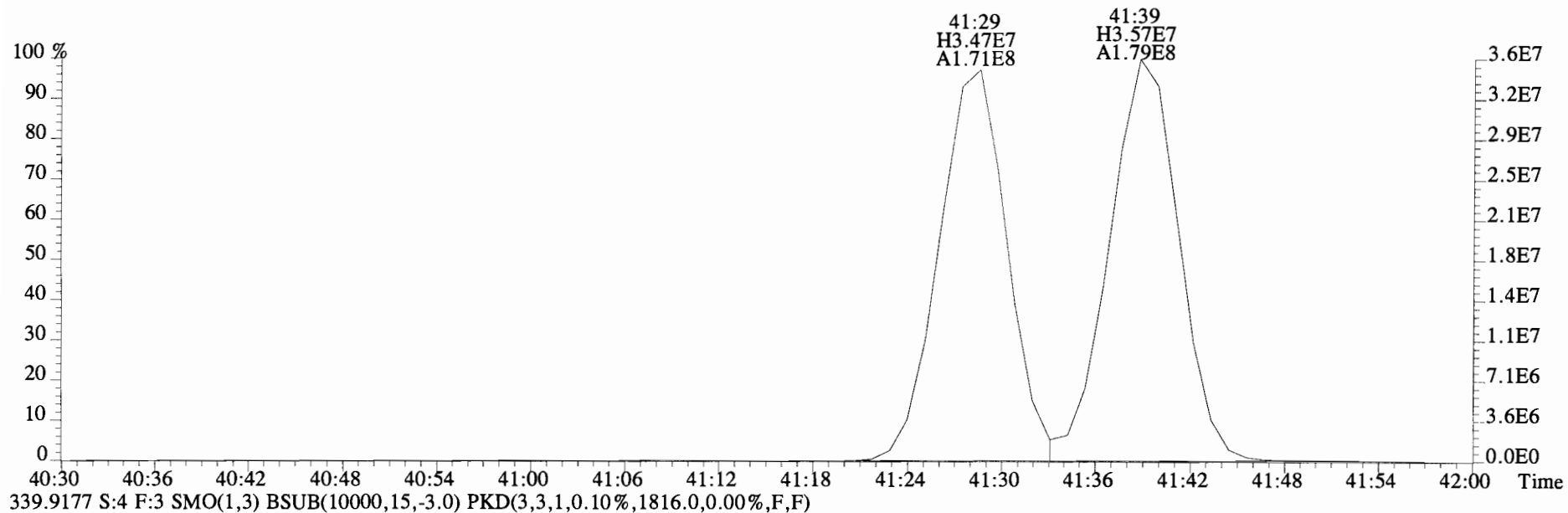


File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)

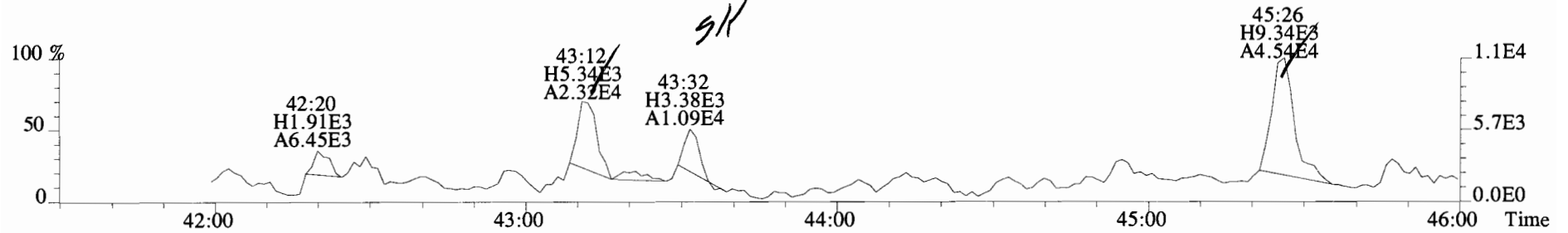
S/N



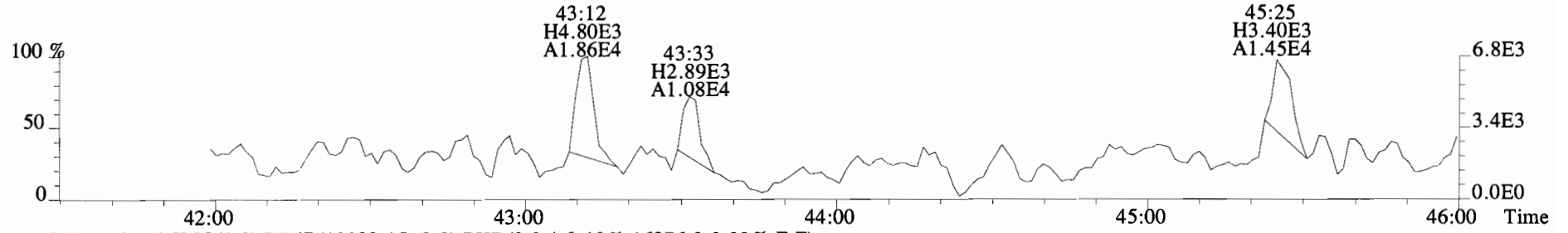
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3368.0,0.00%,F,F)



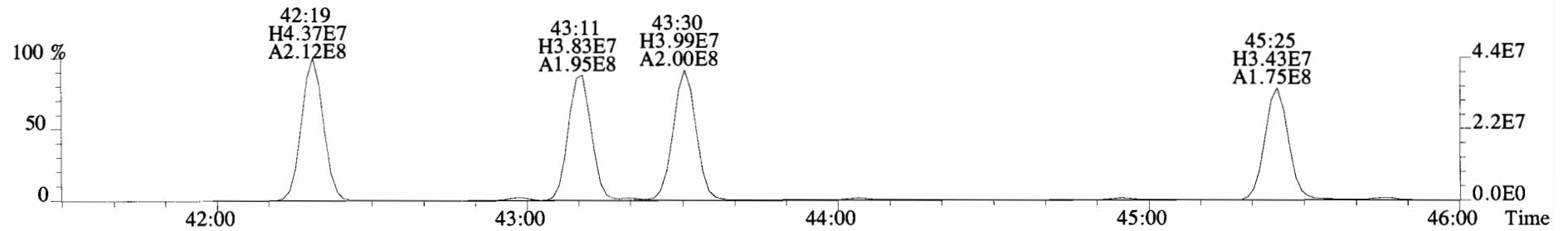
File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1972.0,0.00%,F,F)



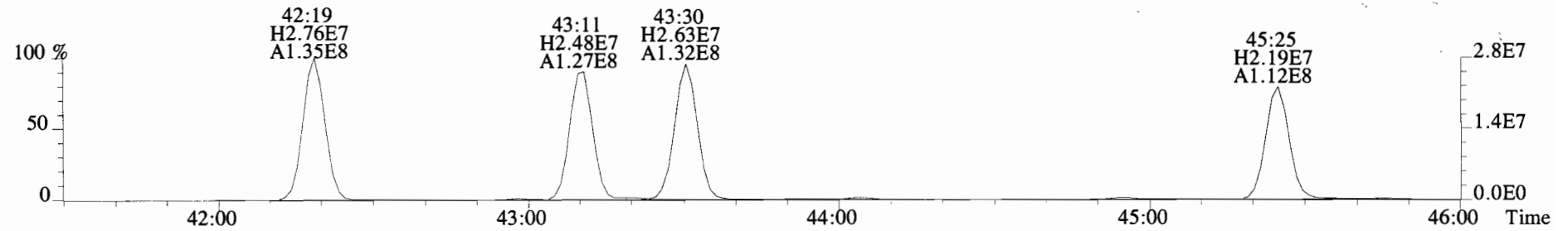
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2388.0,0.00%,F,F)



337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16376.0,0.00%,F,F)

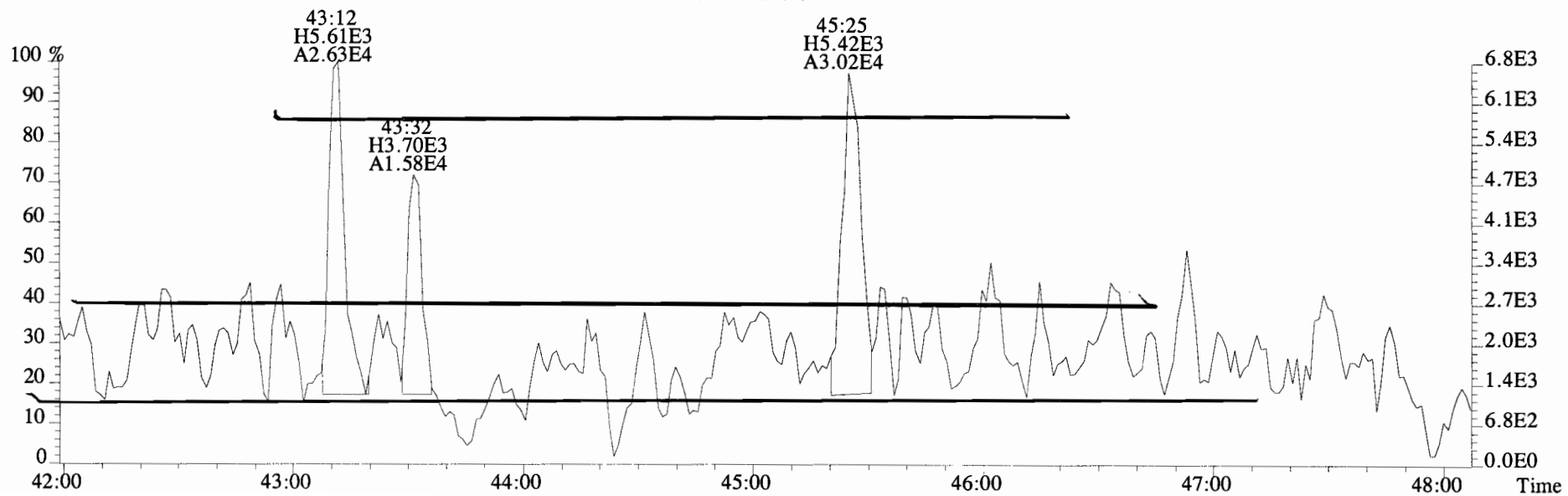
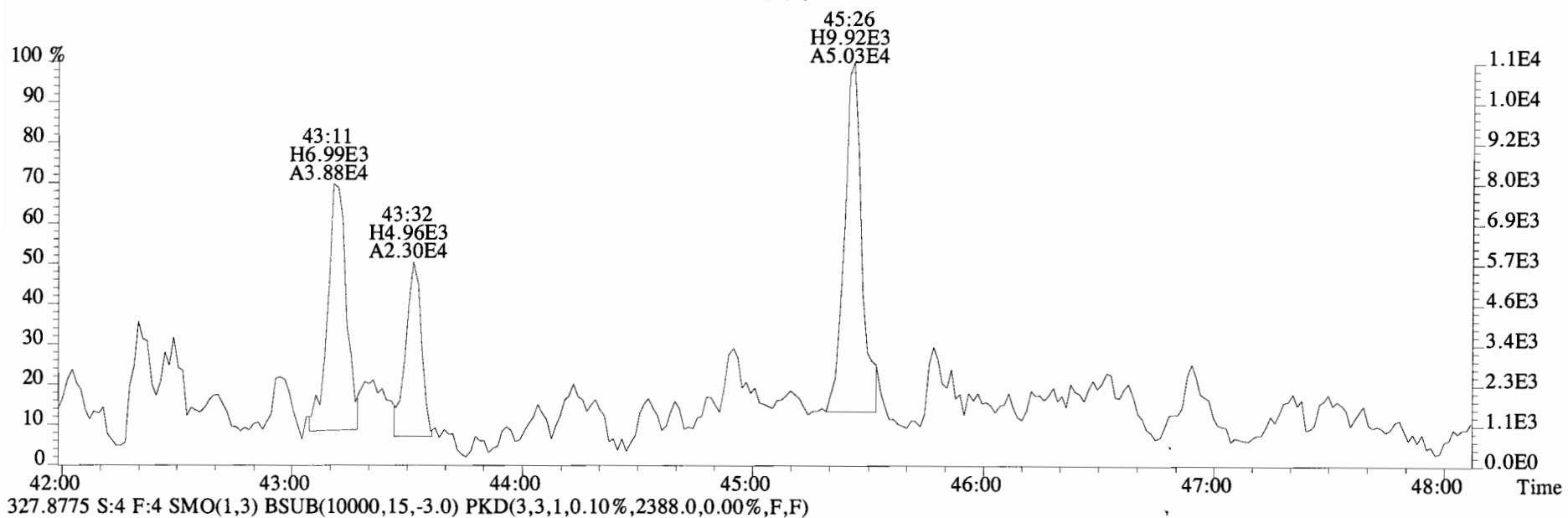


339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12256.0,0.00%,F,F)

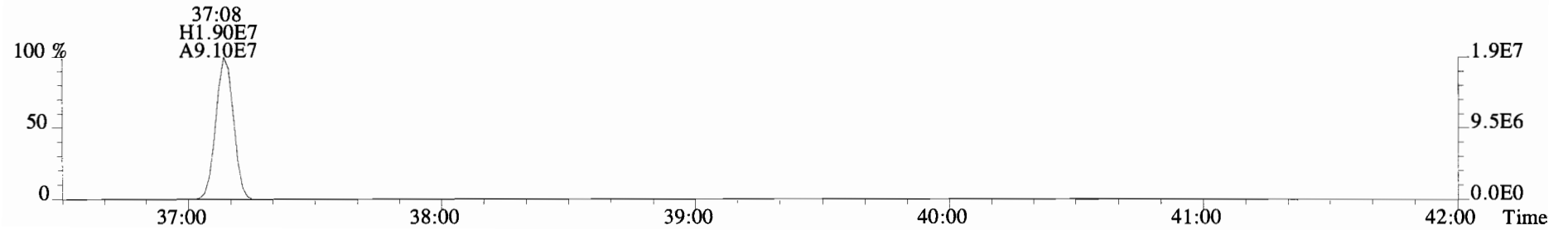
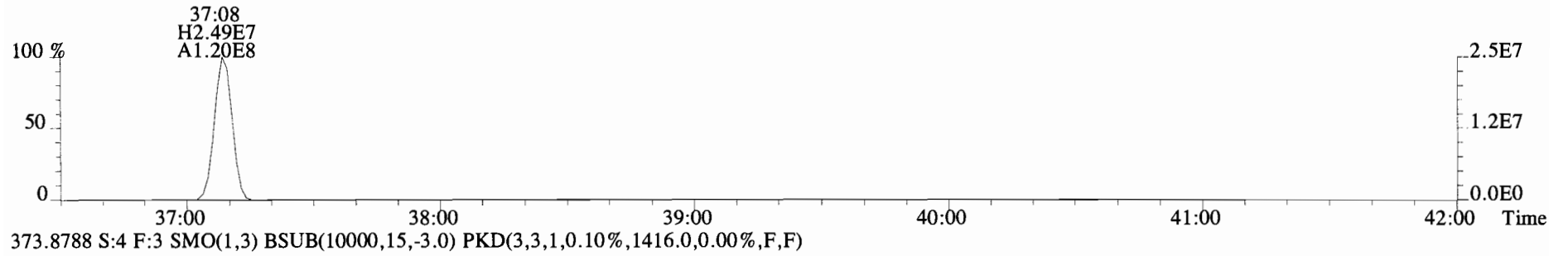
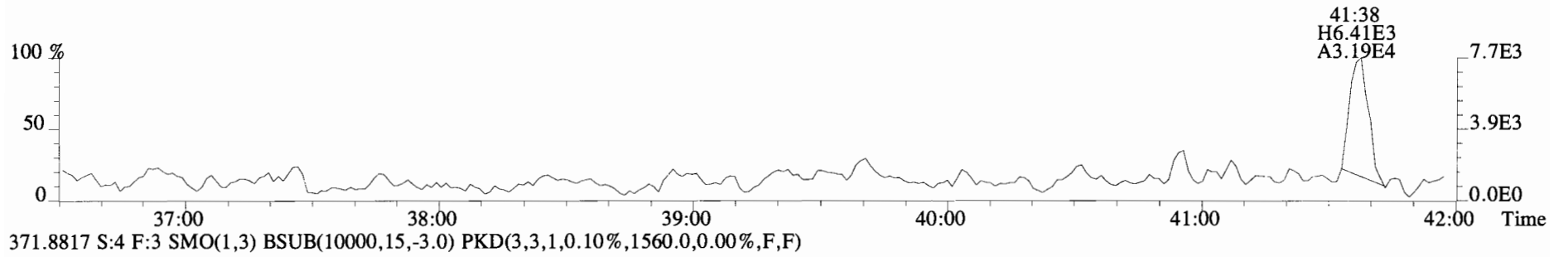
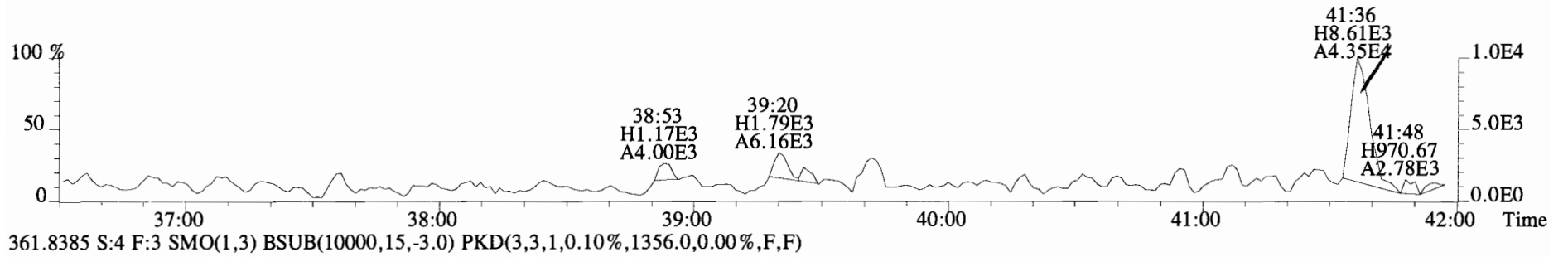




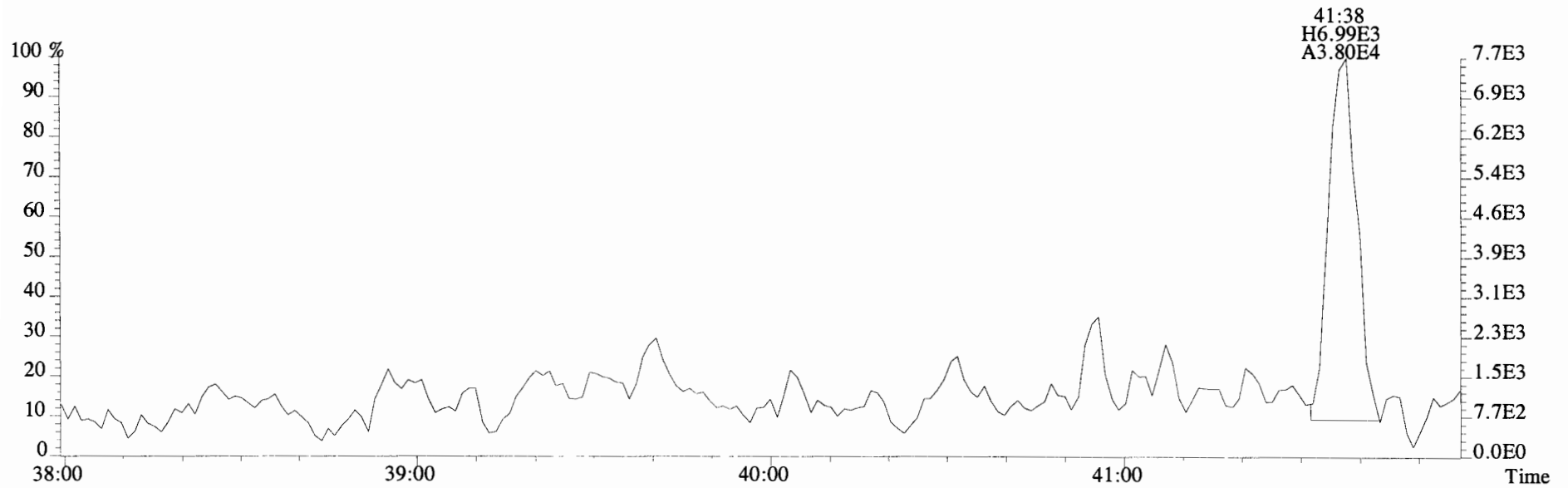
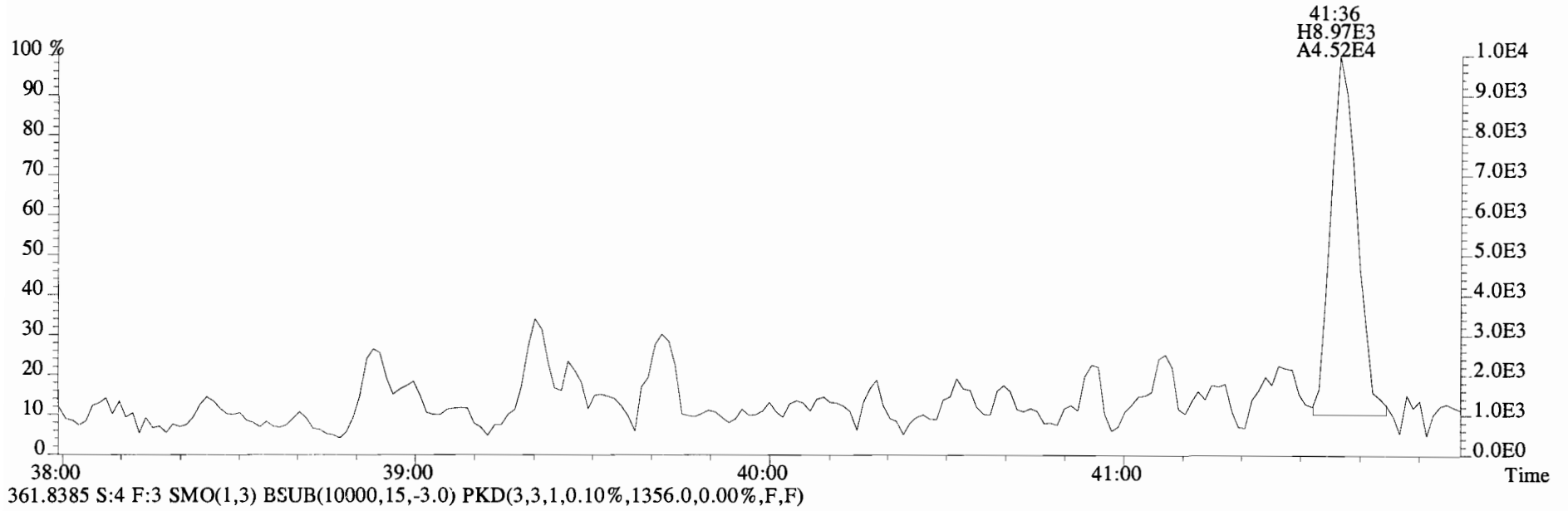
File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1972.0,0.00%,F,F)



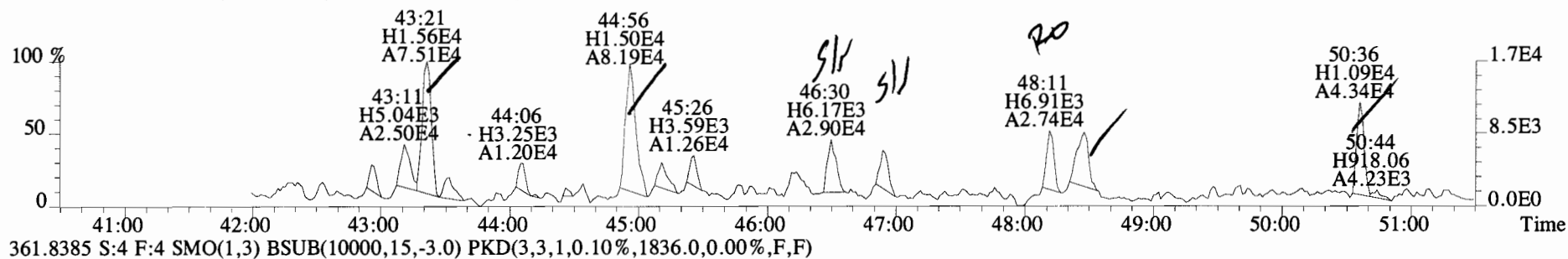
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1464.0,0.00%,F,F)



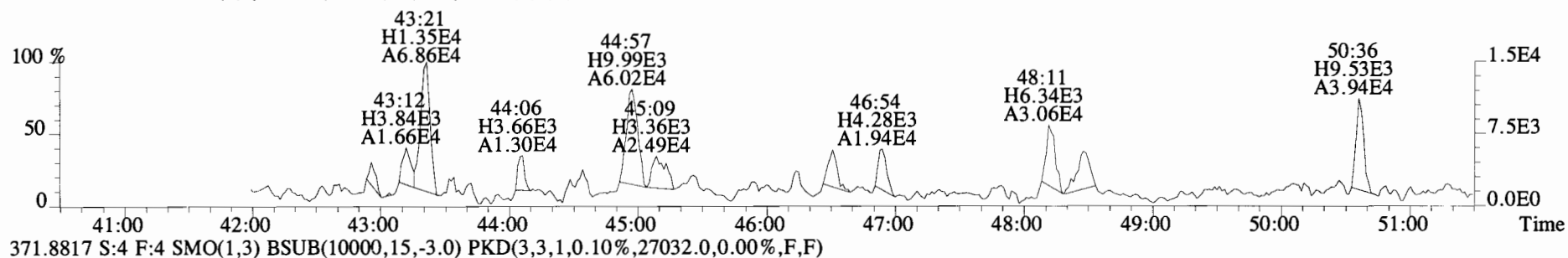
File:141002E1 #1-762 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1464.0,0.00%,F,F)



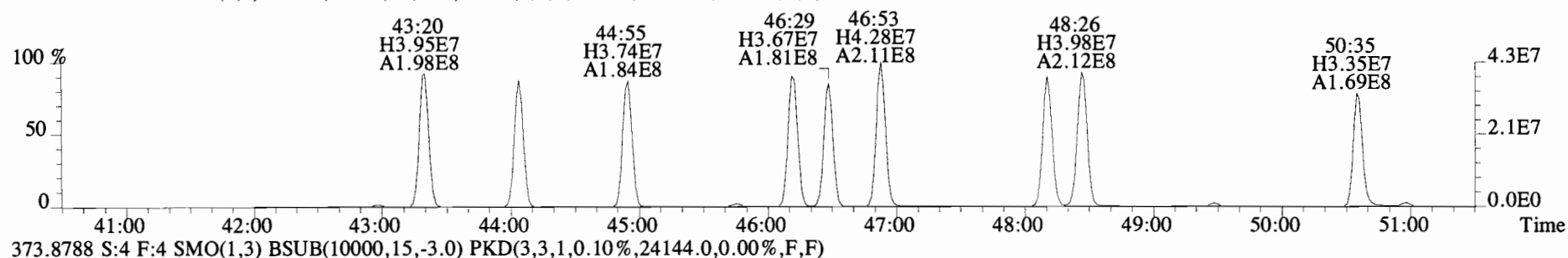
File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



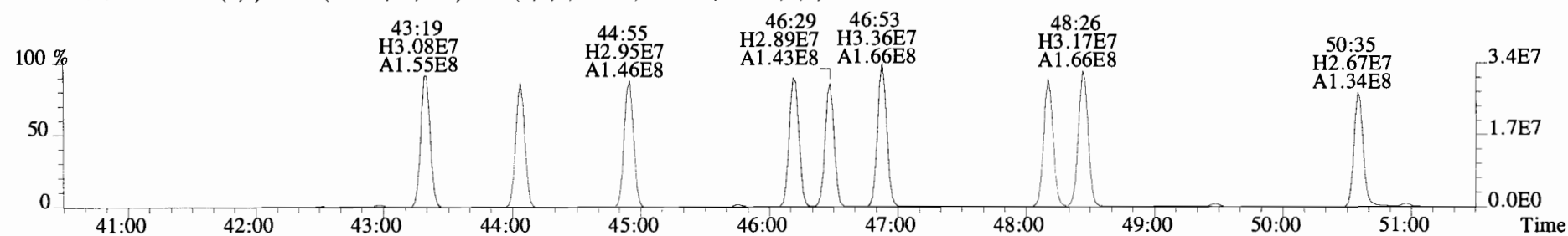
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1836.0,0.00%,F,F)



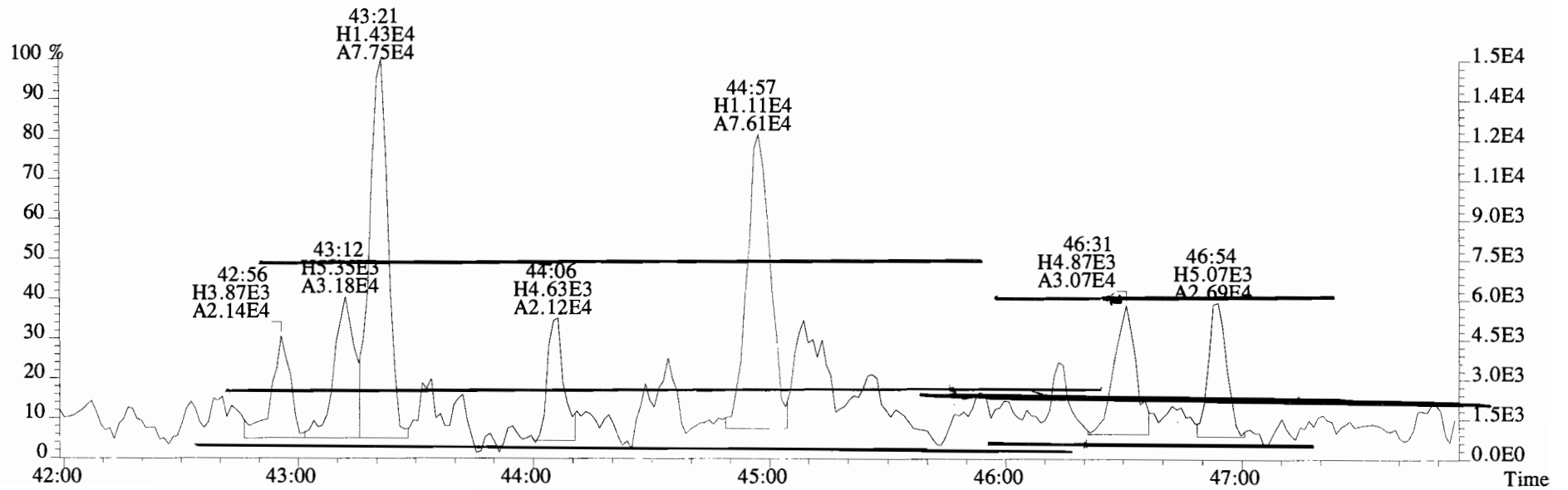
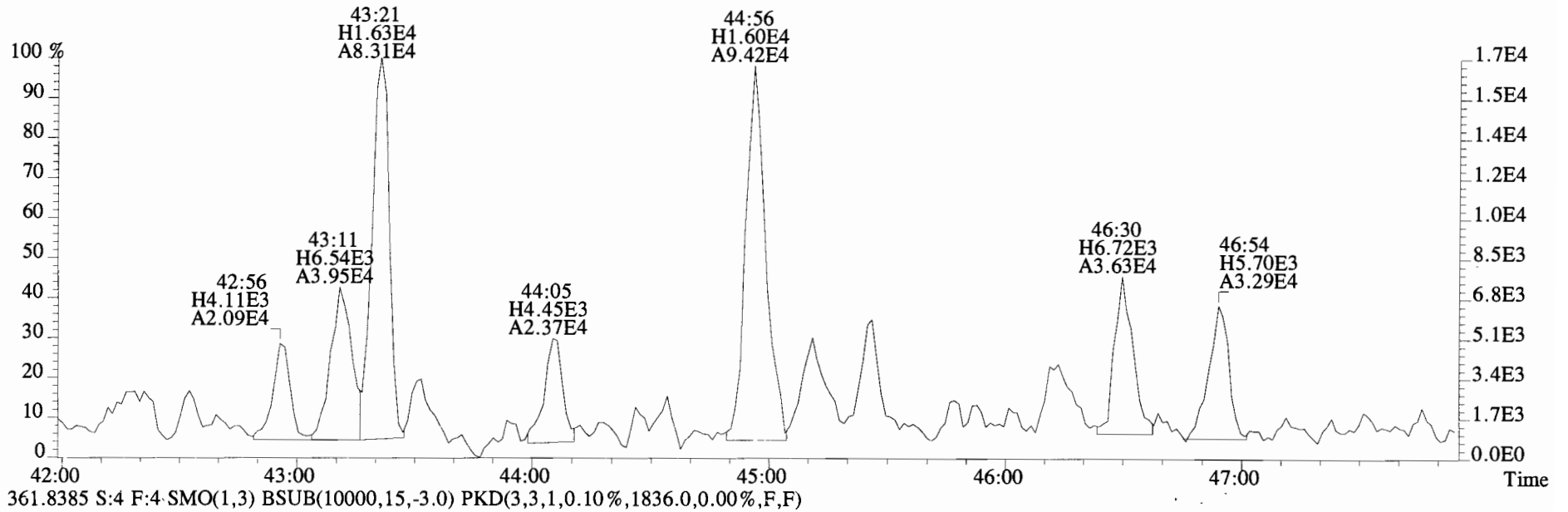
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27032.0,0.00%,F,F)



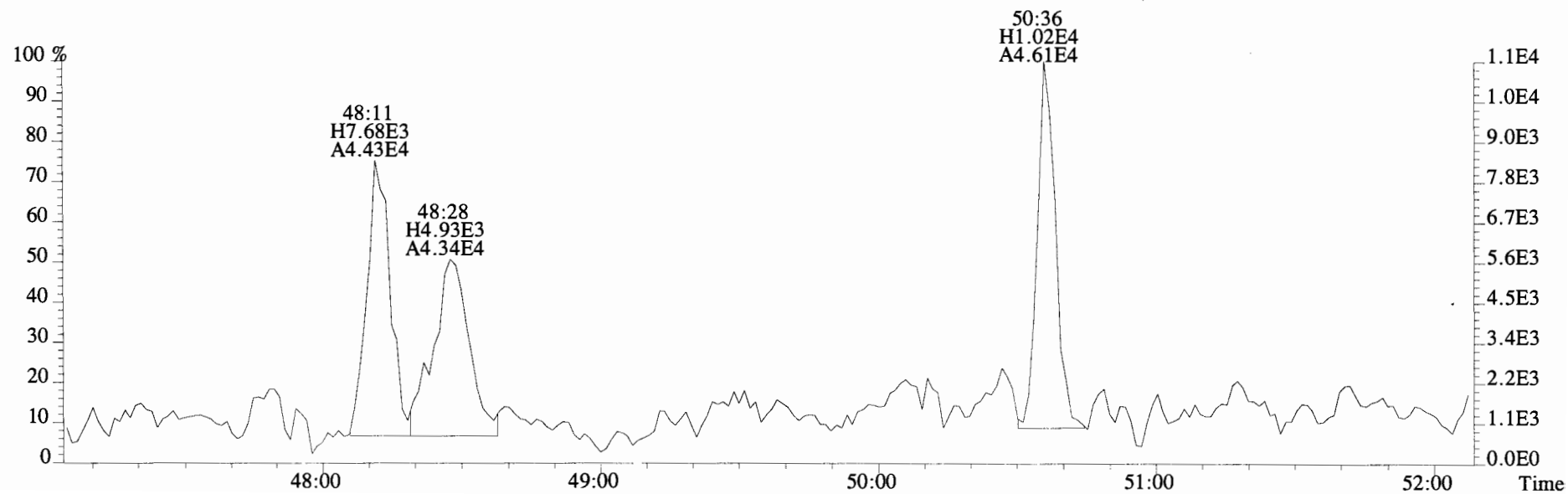
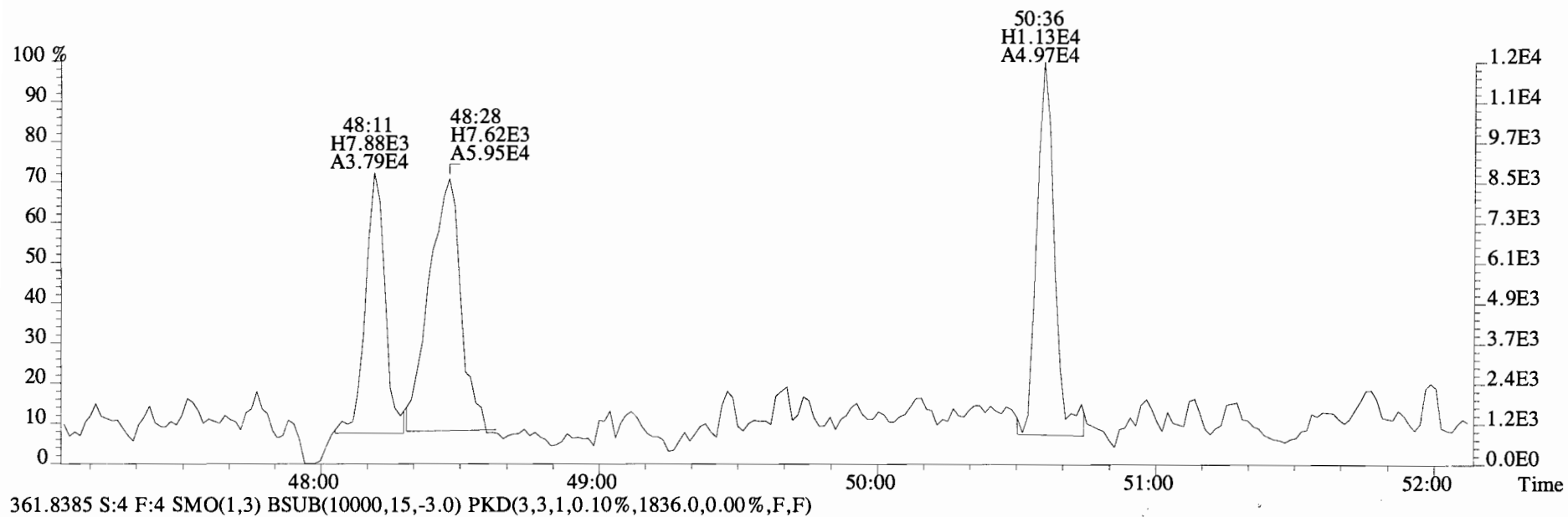
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24144.0,0.00%,F,F)



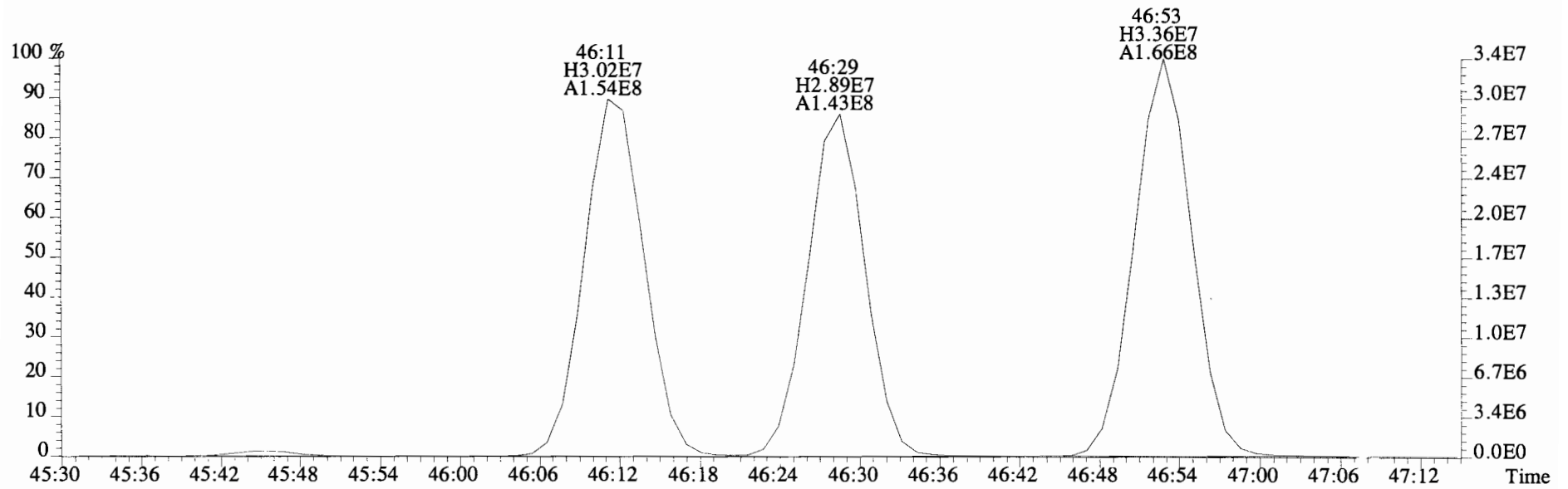
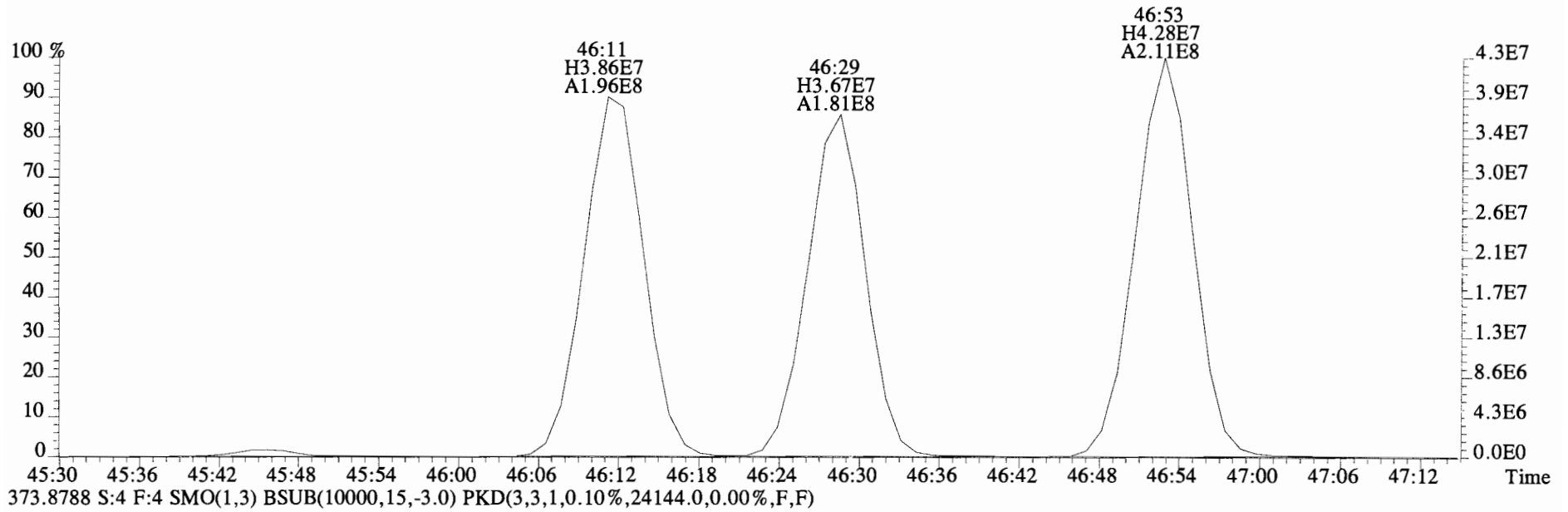
File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



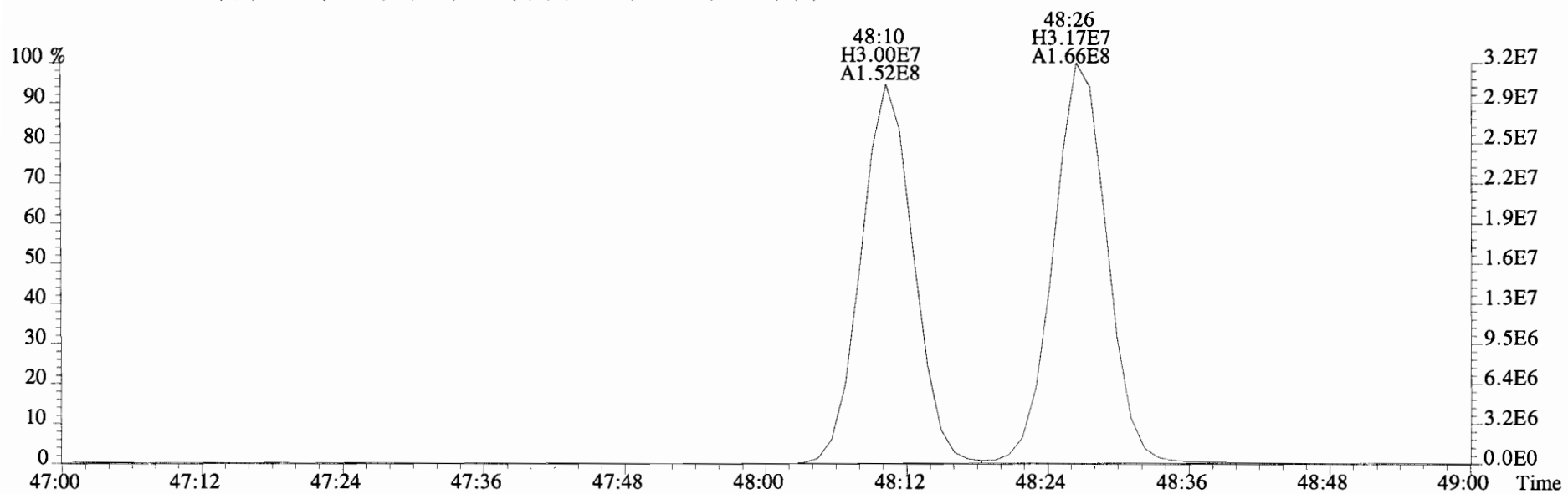
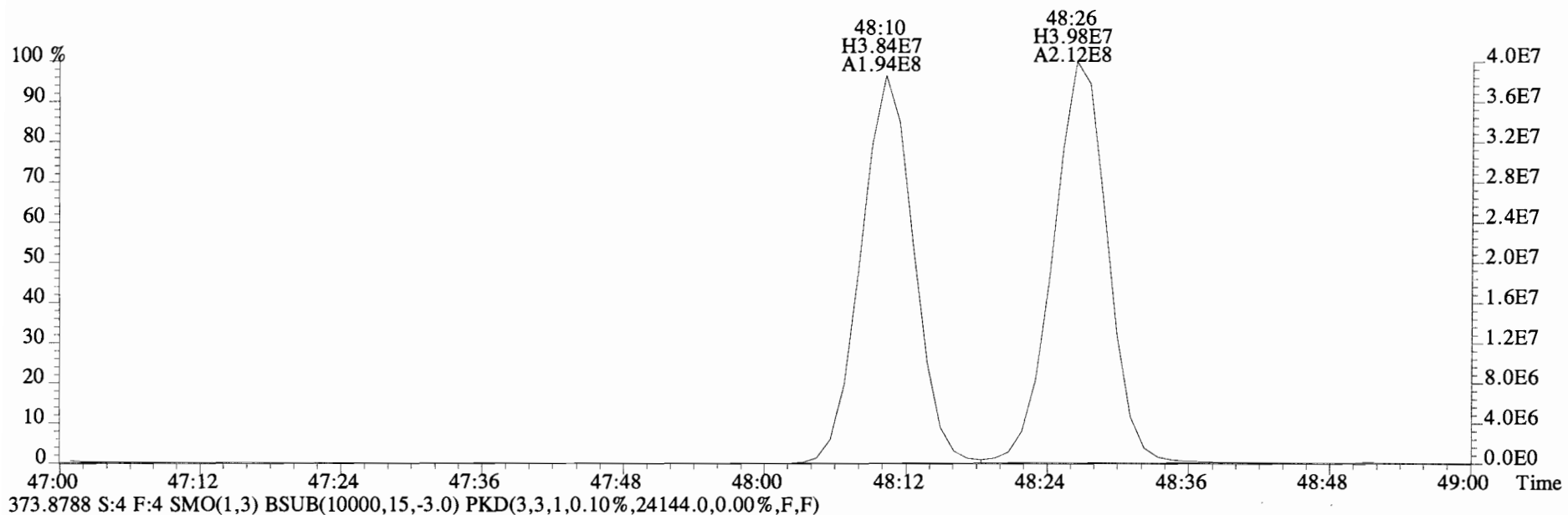
File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27032.0,0.00%,F,F)

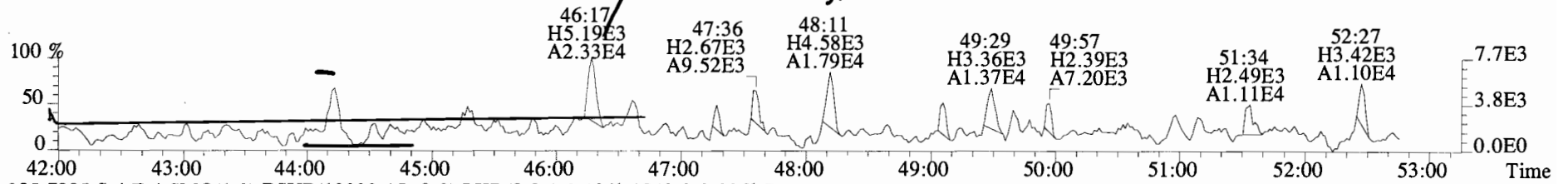


File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27032.0,0.00%,F,F)

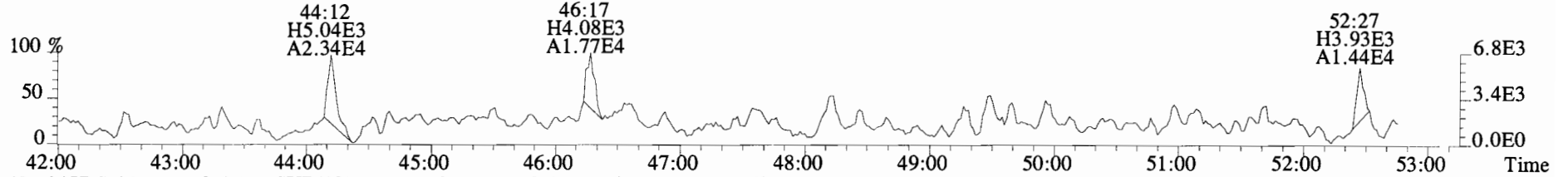




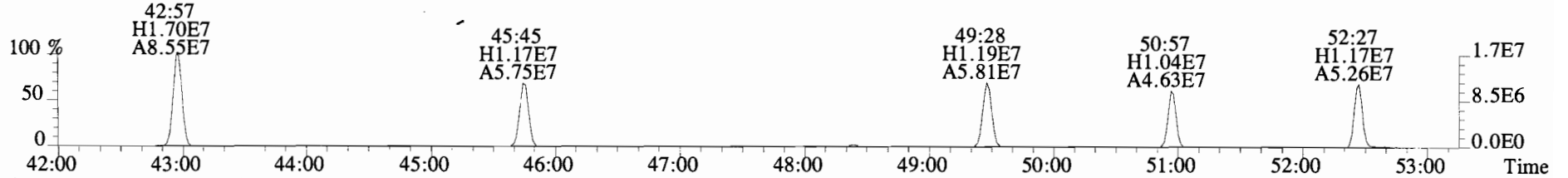
File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%/1980.0,0.00%,F,F)



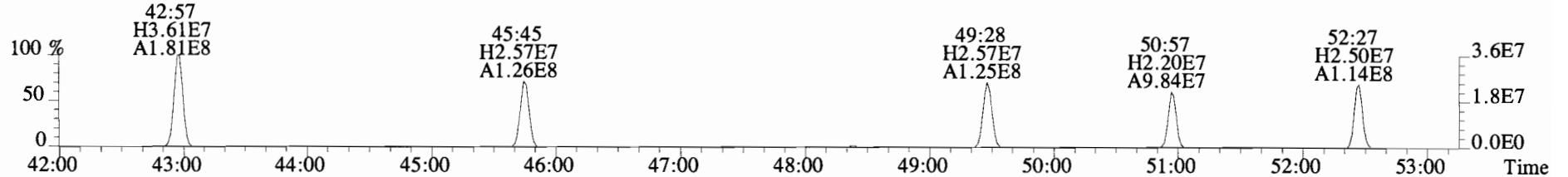
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1940.0,0.00%,F,F)



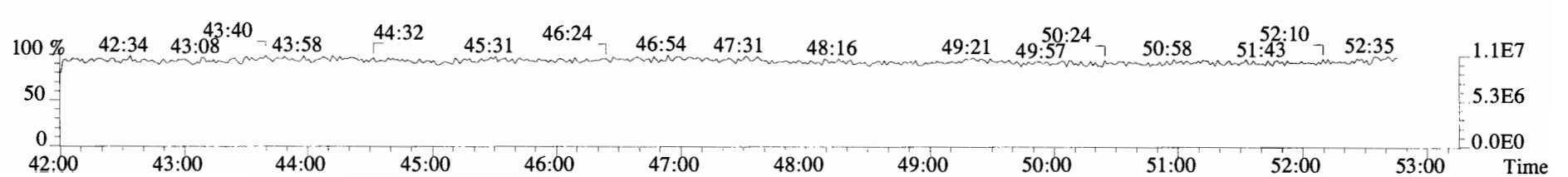
403.8457 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10168.0,0.00%,F,F)



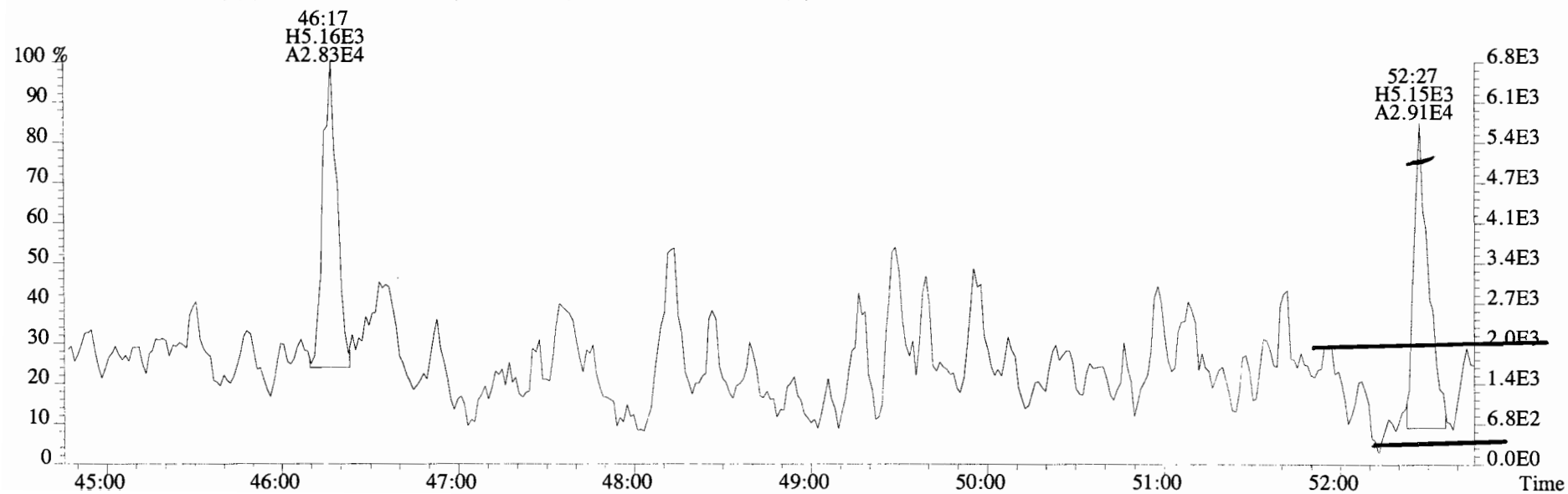
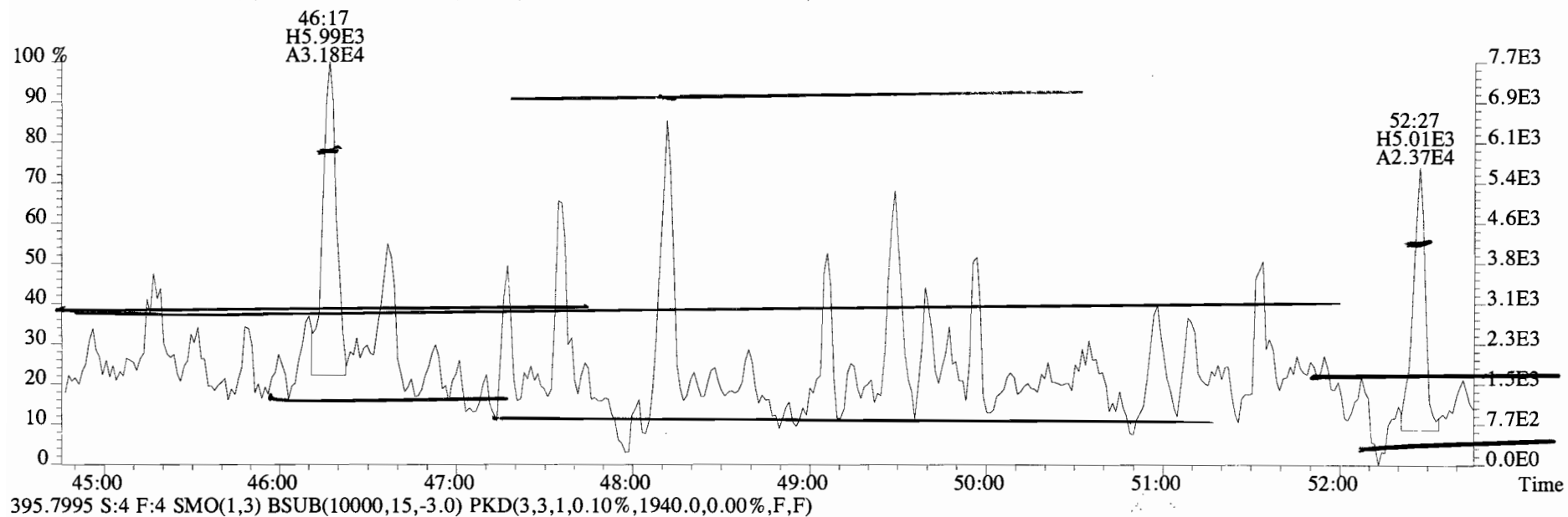
405.8428 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19620.0,0.00%,F,F)



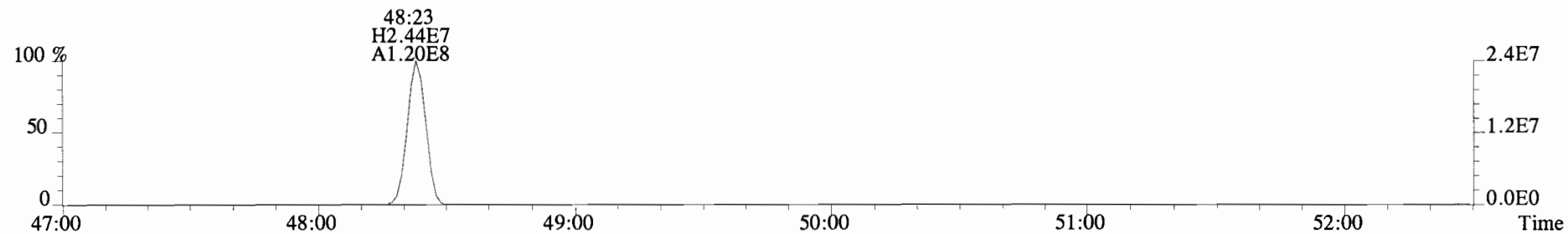
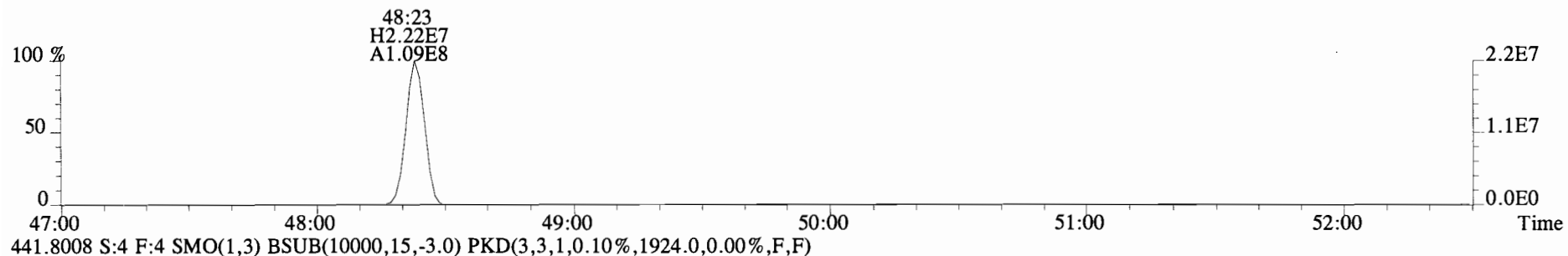
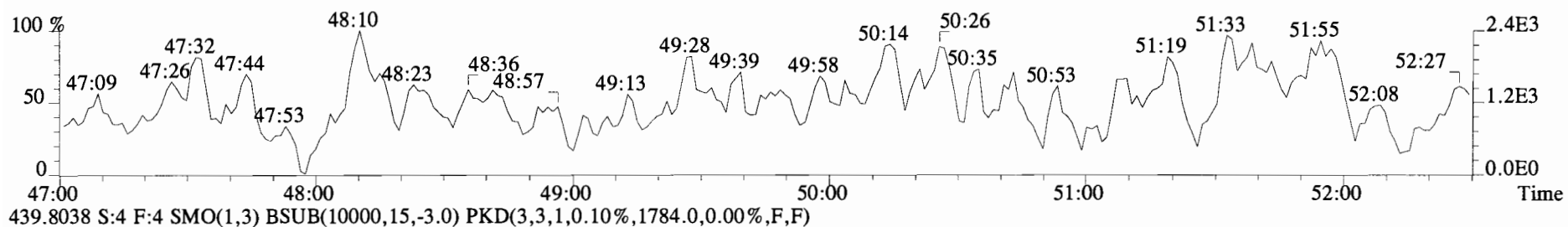
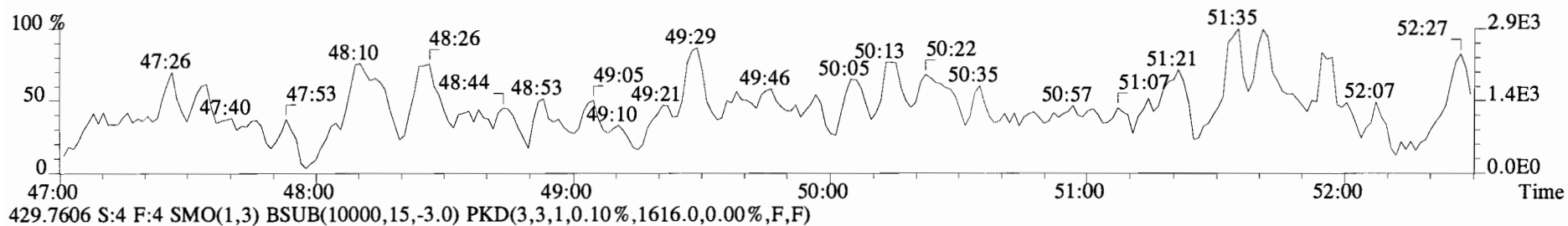
380.9760 S:4 F:4



File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)

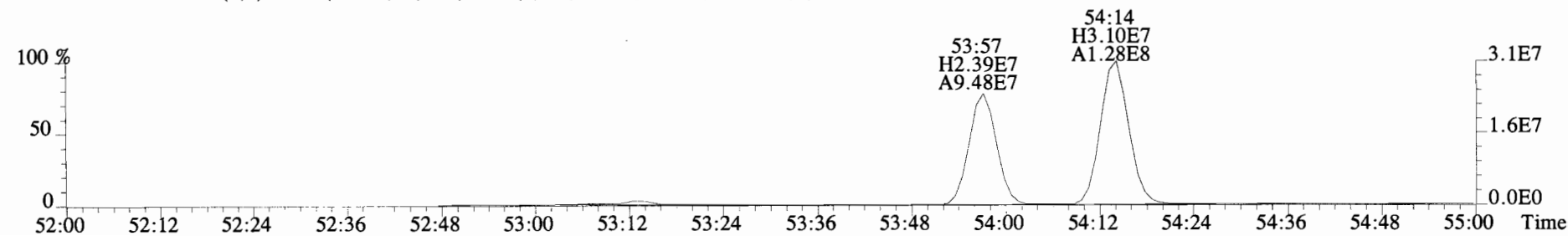
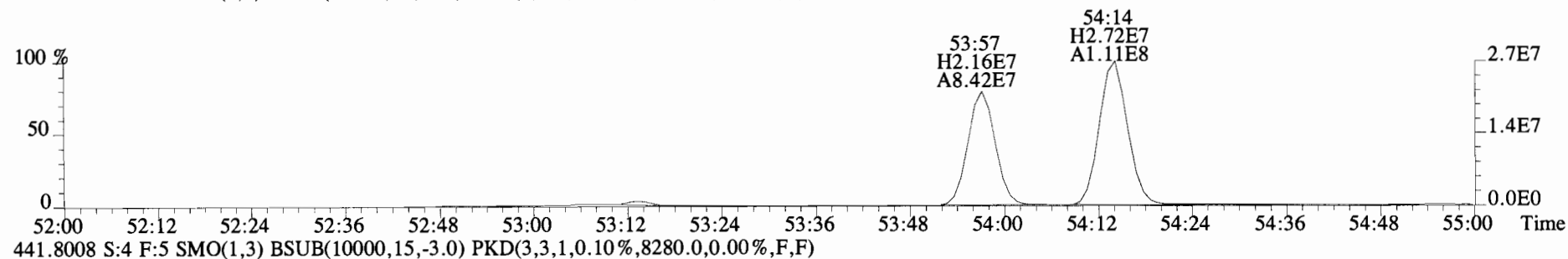
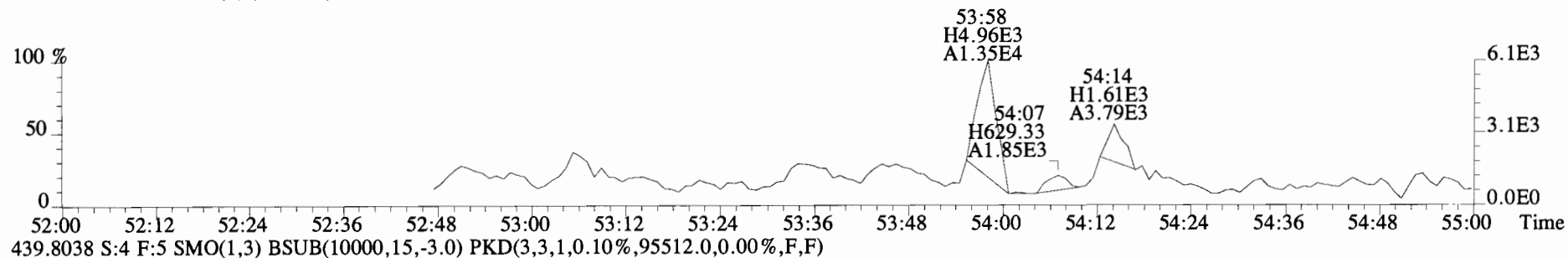
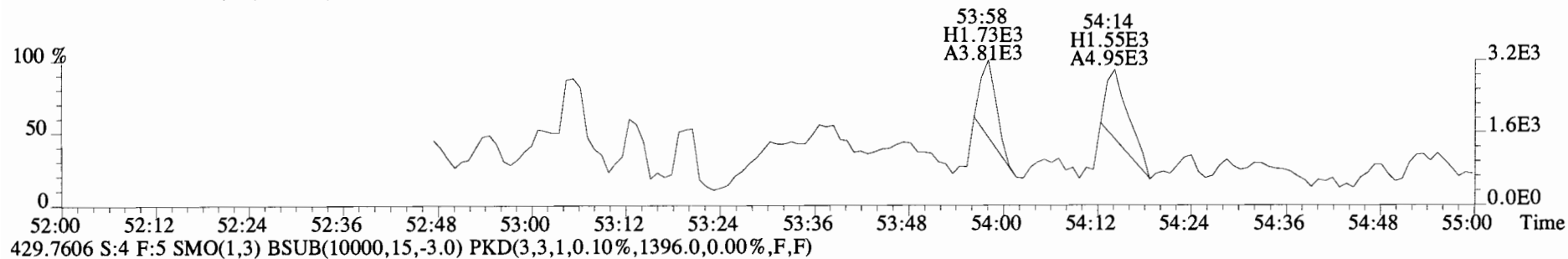


File:141002E1 #1-560 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)

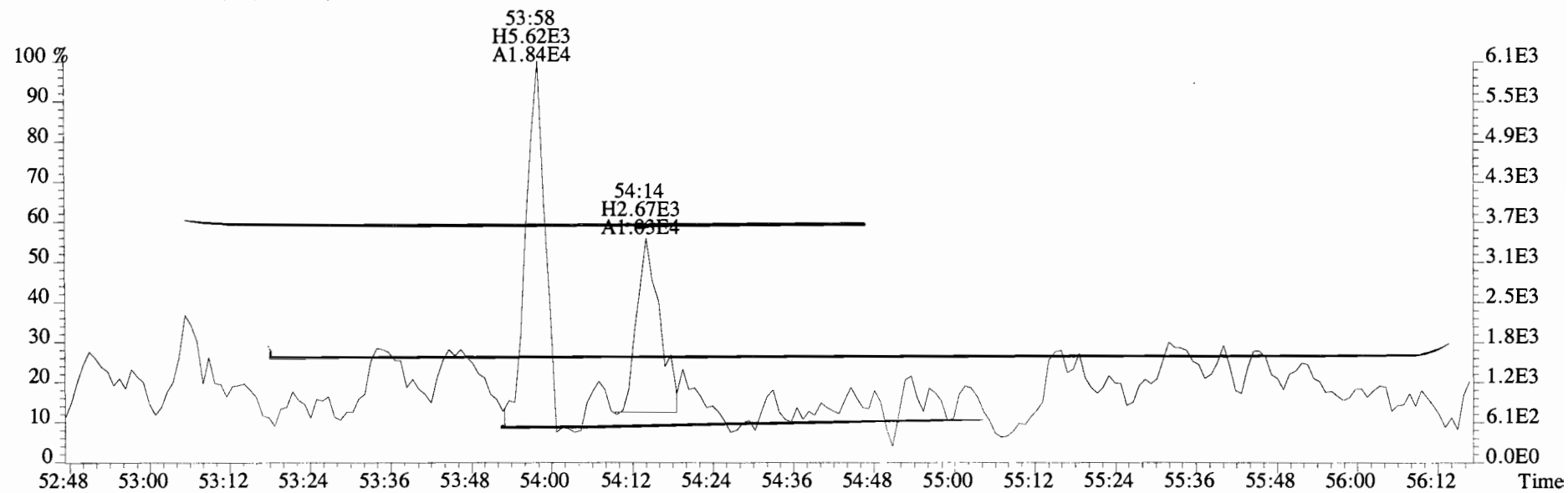
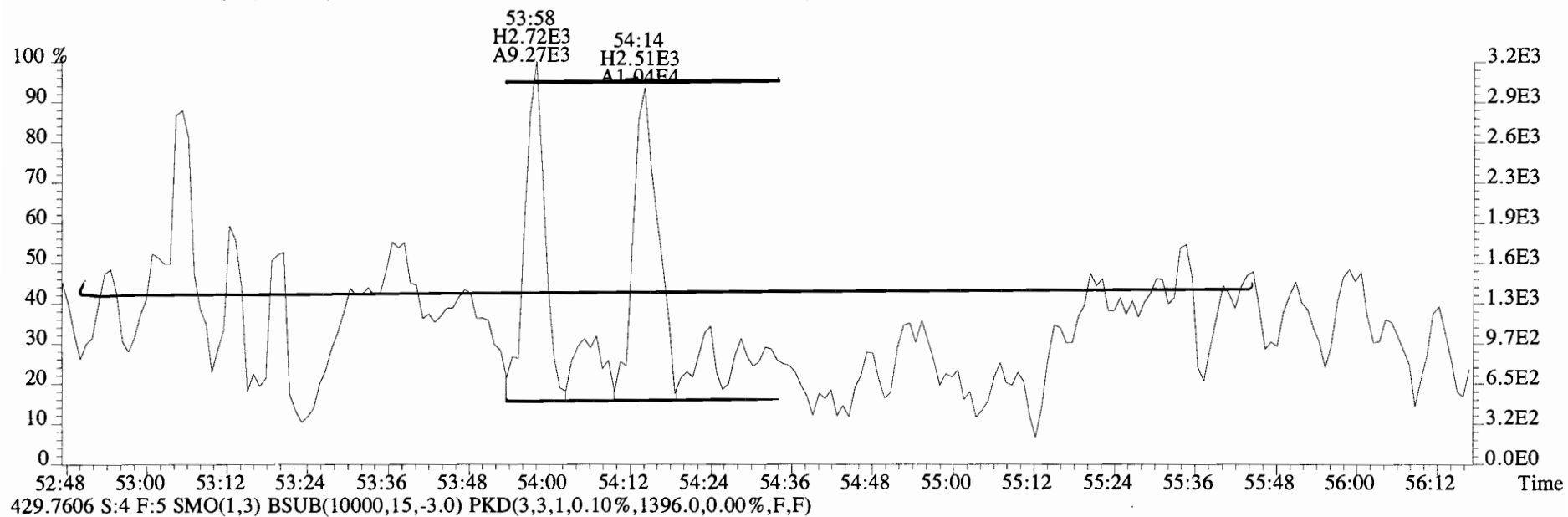


File:141002E1 #1-418 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BLK1 Method Blank 2 Exp:PCB\_ZB1

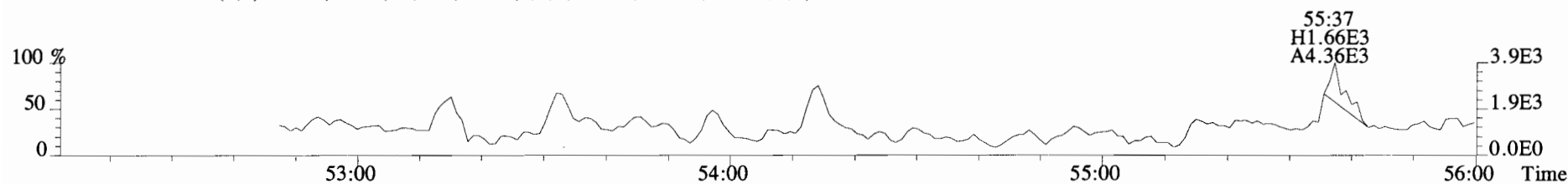
*PO*  
*SLW*



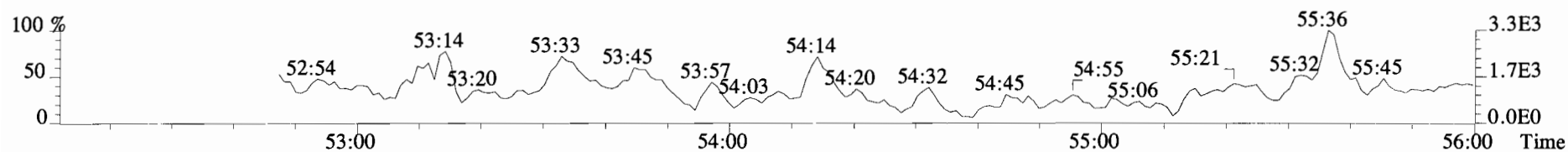
File:141002E1 #1-418 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BLK1 Method Blank 2 Exp: PCB\_ZB1  
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1260.0,0.00%,F,F)



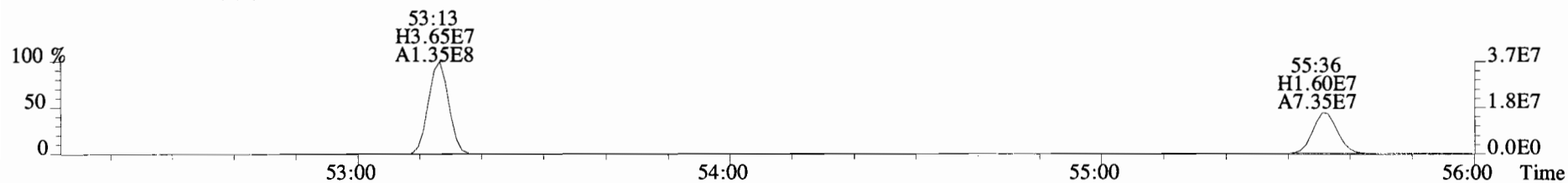
File:141002E1 #1-418 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1336.0,0.00%,F,F)



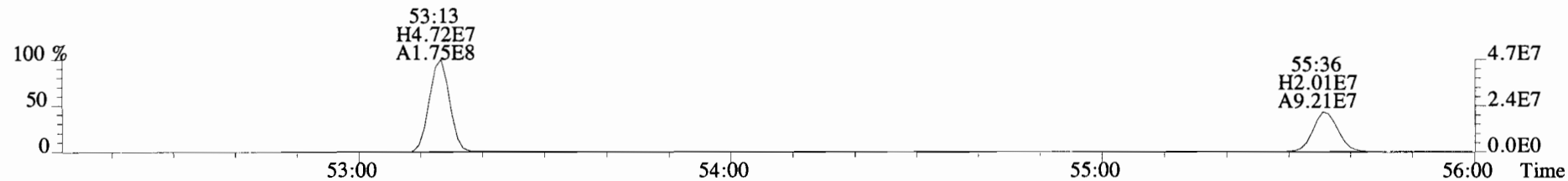
465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



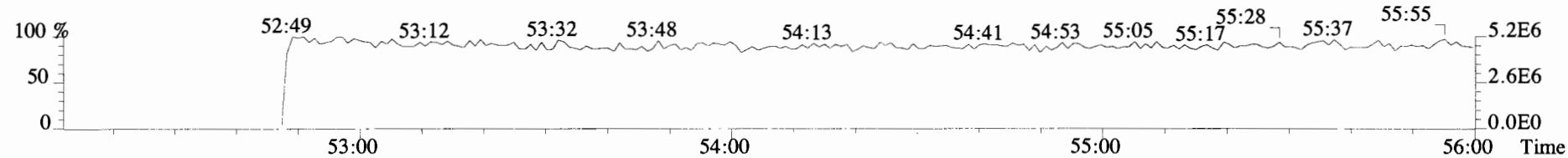
473.7648 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,50924.0,0.00%,F,F)



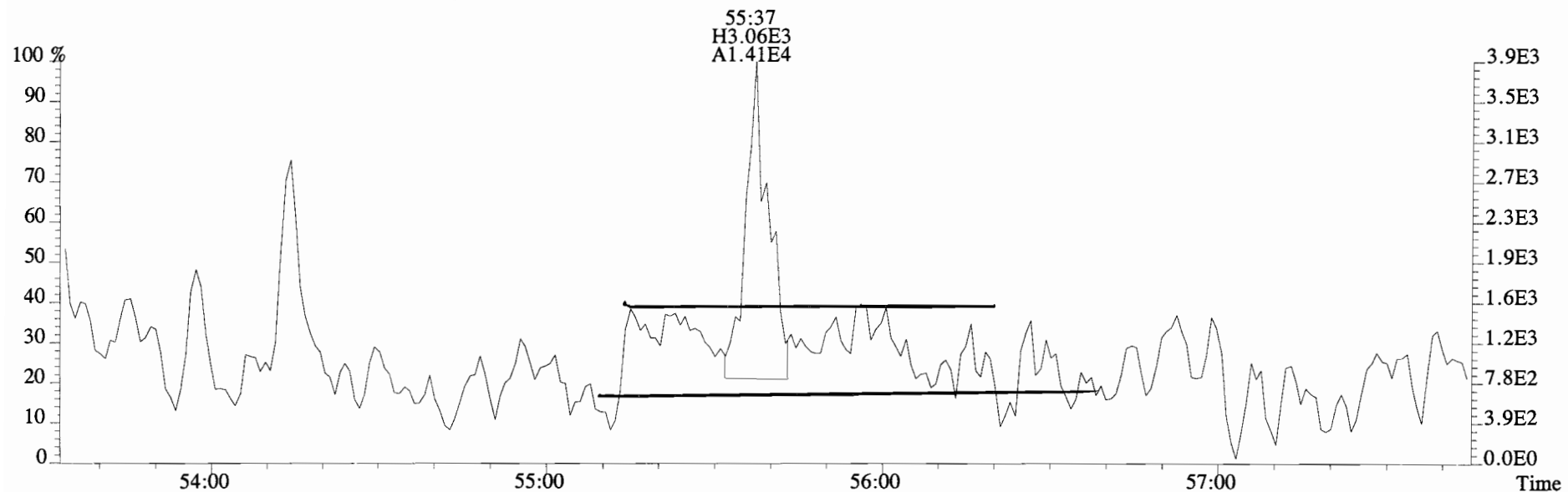
475.7619 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,61984.0,0.00%,F,F)



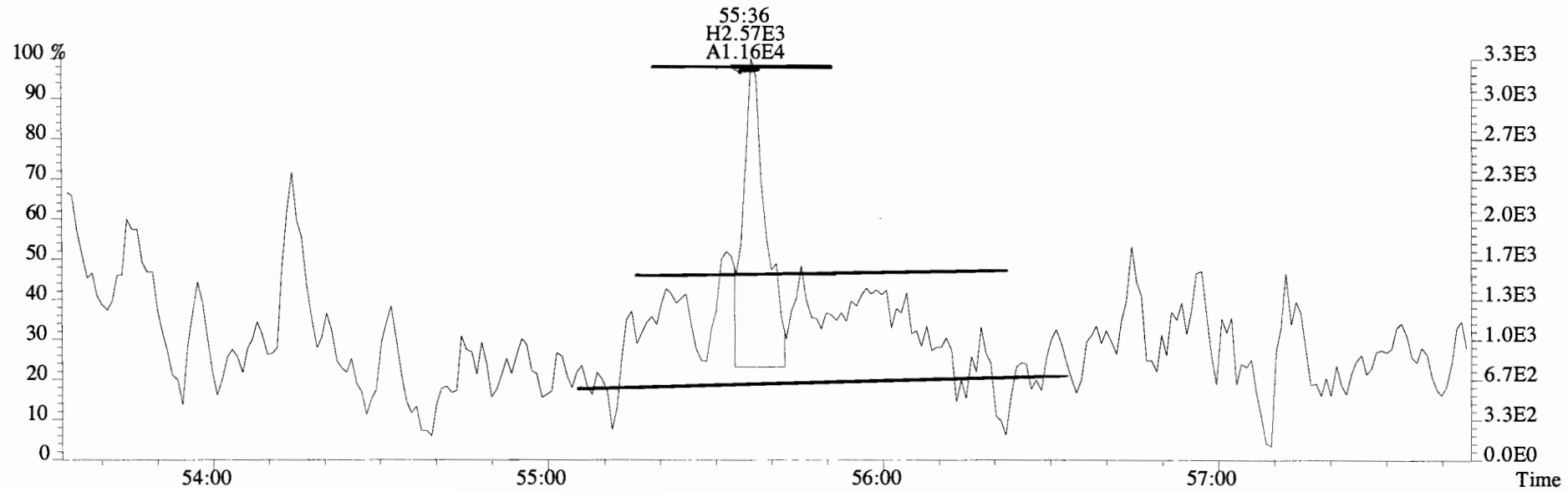
492.9697 S:4 F:5



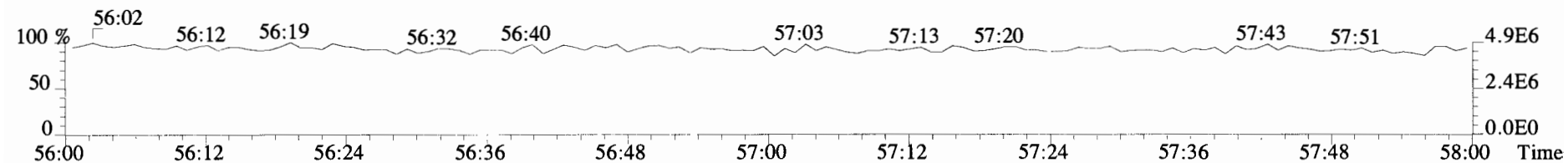
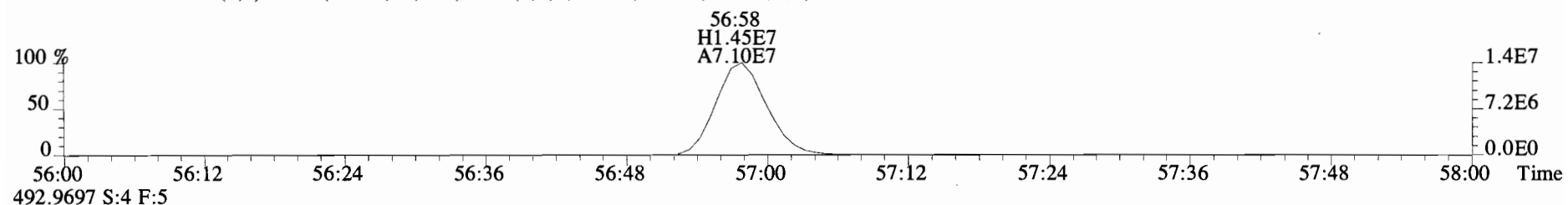
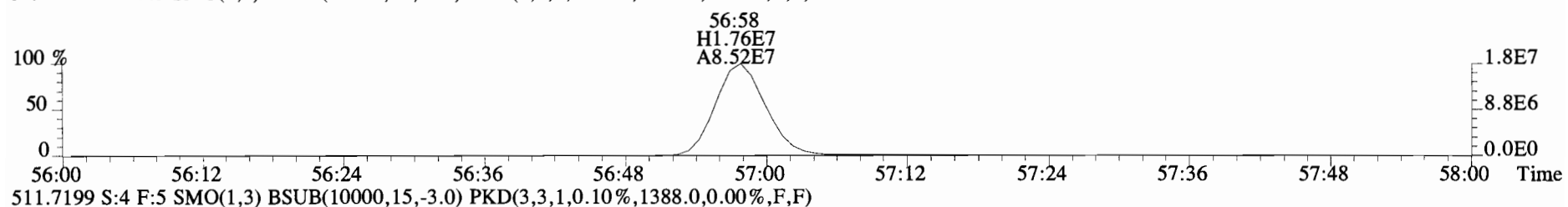
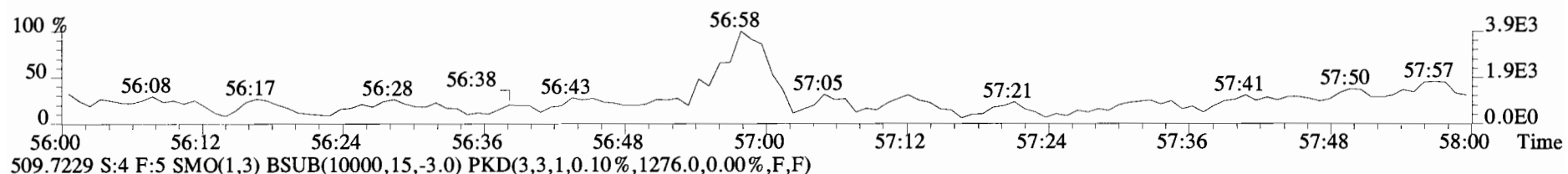
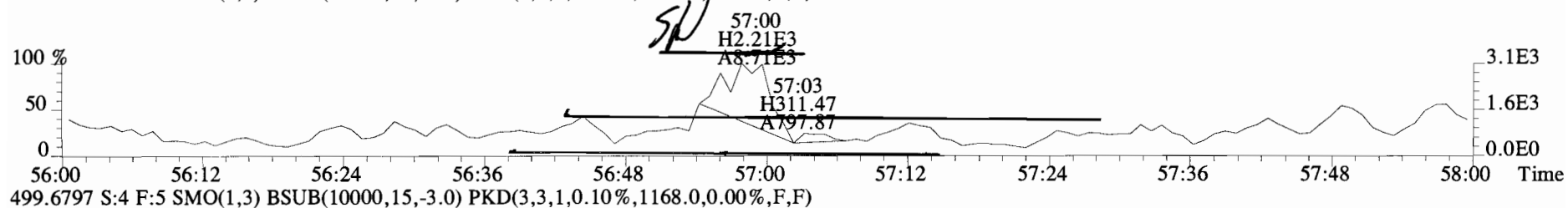
File:141002E1 #1-418 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1336.0,0.00%,F,F)



465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



File:141002E1 #1-418 Acq: 2-OCT-2014 13:12:48 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BLK1 Method Blank 2 Exp:PCB\_ZB1  
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1160.0,0.00%,F,F)





Lab Name: Vista Analytical Laboratory OPR Data Filename: B4I0107-BS1

Matrix : SOLID Ext. Date: 9-29-14 Analysis Date: 2-OCT-14 Time: 11:03:55

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	LABELLED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	CLEAN UP STANDARD	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
PCB-1	50	51.4	30.0-67.5	13C-PCB-1	100	84.6	15-145	13C-PCB-79	100	93.3	40-145
PCB-3	50	51.1	30.0-67.5	13C-PCB-3	100	86.1	15-145	13C-PCB-178	100	92.8	40-145
PCB-4/10	200	186.8	120-270	13C-PCB-4	100	80.1	15-145				
PCB-15	100	90.4	60.0-135	13C-PCB-11	100	84.3	15-145				
PCB-19	50	56.8	30.0-67.5	13C-PCB-19	100	70.3	15-145				
PCB-37	50	38.6	30.0-67.5	13C-PCB-37	100	78.6	15-145				
PCB-54	50	47.2	30.0-67.5	13C-PCB-54	100	84.6	15-145				
PCB-81	50	49.4	30.0-67.5	13C-PCB-81	100	90.6	40-145				
PCB-77	50	49.1	30.0-67.5	13C-PCB-77	100	88.6	40-145				
PCB-104	50	53.5	30.0-67.5	13C-PCB-104	100	87.7	40-145				
PCB-123	50	53.4	30.0-67.5	13C-PCB-123	100	97.2	40-145				
PCB-106/118	100	106.2	60.0-135	13C-PCB-118	100	96.1	40-145				
PCB-114	50	49.2	30.0-67.5	13C-PCB-114	100	81.1	40-145				
PCB-105	50	48.4	30.0-67.5	13C-PCB-105	100	78.1	40-145				
PCB-126	50	50.7	30.0-67.5	13C-PCB-126	100	71.9	40-145				
PCB-155	50	54.0	30.0-67.5	13C-PCB-155	100	72.7	40-145				
PCB-167	50	51.0	30.0-67.5	13C-PCB-167	100	91.2	40-145				
PCB-156	50	52.6	30.0-67.5	13C-PCB-156	100	91.0	40-145				
PCB-157	50	49.2	30.0-67.5	13C-PCB-157	100	92.6	40-145				
PCB-169	50	48.8	30.0-67.5	13C-PCB-169	100	83.0	40-145				
PCB-188	50	52.2	30.0-67.5	13C-PCB-188	100	93.8	40-145				
PCB-189	50	52.5	30.0-67.5	13C-PCB-189	100	80.6	40-145				
PCB-202	50	52.5	30.0-67.5	13C-PCB-202	100	83.8	40-145				
PCB-205	50	44.9	30.0-67.5	13C-PCB-194	100	98.3	40-145				
PCB-208	50	49.6	30.0-67.5	13C-PCB-208	100	119.5	40-145				
PCB-206	50	49.8	30.0-67.5	13C-PCB-206	100	109.9	40-145				
PCB-209	50	50.3	30.0-67.5	13C-PCB-209	100	110.5	40-145				

Analyst: *DMS*

Date: *10/3/14*

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	5.15e+08	3.05	y	1.19	16:14	1.001	0.996-1.006	51.4107	PCB-52/69	5.61e+08	0.75	y	1.28	31:38	1.001	0.996-1.006	92.7342
PCB-2	5.41e+08	3.05	y	1.18	18:37	0.988	0.984-0.994	51.2066	PCB-73	3.01e+08	0.77	y	1.35	31:45	1.005	1.000-1.010	47.1478
PCB-3	6.50e+08	3.04	y	1.43	18:51	1.001	0.996-1.006	51.0834	PCB-43/49	4.27e+08	0.75	y	0.99	31:55	1.010	1.005-1.015	91.0058
									PCB-47	2.51e+08	0.76	y	1.06	32:07	1.001	0.996-1.006	47.9193
PCB-4/10	1.57e+09	1.60	y	1.57	20:13	1.002	0.997-1.007	186.832	PCB-48/75	5.68e+08	0.76	y	1.23	32:14	1.004	0.999-1.009	93.4071
PCB-7/9	1.84e+09	1.60	y	1.21	22:00	0.869	0.866-0.874	184.158	PCB-65	2.78e+08	0.85	y	1.22	32:31	1.013	1.008-1.018	45.8697
PCB-6	9.56e+08	1.60	y	1.30	22:38	0.894	0.890-0.899	88.5464	PCB-62	2.82e+08	0.66	y	1.22	32:37	1.016	1.011-1.021	46.6374
PCB-5/8	1.76e+09	1.59	y	1.15	23:04	0.911	0.907-0.917	184.888	PCB-44	1.94e+08	0.75	y	0.86	32:55	1.025	1.021-1.031	45.5974
PCB-14	9.32e+08	1.59	y	1.11	24:09	0.953	0.949-0.959	93.4885	PCB-42/59	5.26e+08	0.75	y	1.14	33:09	1.032	1.028-1.038	93.3406
PCB-11	9.14e+08	1.60	y	1.09	25:21	1.001	0.995-1.005	93.6809	PCB-41/64/71/72	1.11e+09	0.75	y	1.21	33:44	1.051	1.046-1.056	186.416
PCB-12/13	1.94e+09	1.59	y	1.19	25:44	1.016	1.011-1.021	180.634	PCB-68	3.08e+08	0.75	y	1.35	33:60	1.059	1.054-1.064	46.2126
PCB-15	1.04e+09	1.59	y	1.28	26:03	1.028	1.023-1.033	90.3851	PCB-40	1.63e+08	0.75	y	0.70	34:12	1.065	1.061-1.071	46.8442
									PCB-57	2.88e+08	0.76	y	0.98	34:34	0.970	0.965-0.975	46.6008
PCB-19	2.52e+08	1.07	y	1.04	24:20	1.001	0.996-1.006	56.8354	PCB-67	3.45e+08	0.75	y	1.11	34:53	0.979	0.974-0.984	49.3276
PCB-30	4.11e+08	1.07	y	1.71	25:14	1.038	1.032-1.042	56.4931	PCB-58	2.83e+08	0.76	y	0.93	34:60	0.982	0.977-0.987	48.2457
PCB-18	2.92e+08	1.07	y	0.78	25:59	0.954	0.949-0.959	54.8478	PCB-63	2.76e+08	0.76	y	0.95	35:09	0.987	0.982-0.992	45.8826
PCB-17	3.39e+08	1.07	y	0.92	26:09	0.960	0.956-0.966	53.9081	PCB-74	3.72e+08	0.76	y	1.24	35:26	0.995	0.990-1.000	47.3343
PCB-24/27	8.96e+08	1.08	y	1.19	26:44	0.981	0.977-0.987	110.579	PCB-61/70	5.84e+08	0.75	y	0.95	35:36	0.999	0.995-1.005	96.9558
PCB-16/32	7.08e+08	1.07	y	0.94	27:14	1.000	0.995-1.005	110.485	PCB-76/66	6.45e+08	0.75	y	1.04	35:50	1.006	1.001-1.011	97.6886
PCB-34	2.13e+08	0.94	y	1.14	28:02	0.960	0.955-0.965	41.8417	PCB-80	3.97e+08	0.76	y	1.19	36:04	1.001	0.996-1.006	49.9428
PCB-23	2.16e+08	0.94	y	1.28	28:07	0.963	0.959-0.969	37.8315	PCB-55	3.50e+08	0.76	y	1.04	36:23	1.009	1.005-1.015	50.3782
PCB-29	1.81e+08	0.94	y	1.08	28:22	0.972	0.967-0.977	37.3831	PCB-56/60	6.50e+08	0.75	y	1.01	36:52	1.023	1.019-1.029	96.6546
PCB-26	2.01e+08	0.96	y	1.21	28:35	0.979	0.974-0.984	37.2966	PCB-79	3.43e+08	0.76	y	1.08	37:57	1.053	1.048-1.058	47.6704
PCB-25	2.32e+08	0.95	y	1.26	28:45	0.985	0.979-0.989	41.0879	PCB-78	3.51e+08	0.75	y	1.27	38:38	0.987	0.982-0.992	47.8228
PCB-31	2.57e+08	0.96	y	1.28	29:05	0.996	0.992-1.002	44.6969	PCB-81	3.80e+08	0.75	y	1.33	39:10	1.000	0.995-1.005	49.4026
PCB-28	2.96e+08	0.97	y	1.71	29:12	1.000	0.995-1.005	38.6454	PCB-77	3.12e+08	0.78	y	1.10	39:46	1.000	0.995-1.005	49.0782
PCB-20/21/33	5.47e+08	0.96	y	1.08	29:50	1.022	1.017-1.027	112.980									
PCB-22	2.14e+08	0.95	y	1.21	30:16	1.037	1.032-1.042	39.6527	PCB-104	2.34e+08	1.60	y	1.18	32:47	1.001	0.996-1.006	53.5455
PCB-36	1.86e+08	0.95	y	1.14	30:52	0.933	0.928-0.938	37.5154	PCB-96	2.21e+08	1.61	y	1.14	34:02	1.039	1.034-1.044	52.5922
PCB-39	1.81e+08	0.95	y	1.12	31:21	0.948	0.943-0.953	37.4659	PCB-103	1.85e+08	1.60	y	0.96	34:35	1.056	1.050-1.060	52.4681
PCB-38	2.09e+08	0.97	y	1.20	32:07	0.971	0.966-0.976	40.1317	PCB-100	1.90e+08	1.58	y	0.94	34:55	1.066	1.061-1.071	54.8041
PCB-35	2.12e+08	0.97	y	1.23	32:38	0.987	0.982-0.992	39.6092	PCB-94	1.51e+08	1.59	y	1.06	35:24	0.985	0.980-0.990	49.2023
PCB-37	2.06e+08	0.95	y	1.23	33:05	1.001	0.995-1.005	38.5961	PCB-95/98/102	5.74e+08	1.58	y	1.22	35:53	0.999	0.995-1.005	161.459
									PCB-93	1.21e+08	1.72	y	0.84	36:01	1.003	0.997-1.007	49.4339
PCB-54	2.96e+08	0.75	y	1.10	28:05	1.001	0.996-1.006	47.2036	PCB-88/91	3.41e+08	1.58	y	1.12	36:18	1.010	1.005-1.015	105.221
PCB-50	2.31e+08	0.74	y	0.88	29:15	1.042	1.037-1.047	46.0216	PCB-121	2.44e+08	1.61	y	1.62	36:25	1.014	1.009-1.019	52.0386
PCB-53	2.23e+08	0.75	y	1.06	29:54	0.946	0.942-0.952	44.4209	PCB-84/92	3.35e+08	1.60	y	1.05	37:14	0.990	0.985-0.995	105.336
PCB-51	2.08e+08	0.74	y	0.99	30:15	0.957	0.952-0.962	44.5238	PCB-89	1.77e+08	1.59	y	1.13	37:25	0.995	0.991-1.001	51.4623
PCB-45	1.79e+08	0.75	y	0.86	30:41	0.971	0.966-0.976	43.9604									
PCB-46	1.79e+08	0.75	y	0.85	31:10	0.986	0.981-0.991	44.9427									

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by  
Analyst: Dms

Date: 10/3/14

Reviewed

by  
Analyst: LP

Date: 10/3/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	3.55e+08	1.60	y	1.10	37:37	1.000	0.995-1.005	106.150	PCB-133/142	3.80e+08	1.22	y	0.82	42:33	0.982	0.977-0.987	101.771
PCB-113	2.25e+08	1.59	y	1.41	37:51	1.006	1.002-1.012	52.6215	PCB-131	2.04e+08	1.22	y	0.91	42:43	0.986	0.981-0.991	49.2947
PCB-99	2.14e+08	1.62	y	1.34	37:57	1.009	1.004-1.014	52.6733	PCB-146/165	5.65e+08	1.22	y	1.25	42:56	0.991	0.986-0.996	99.6321
PCB-119	2.12e+08	1.59	y	1.53	38:24	0.987	0.982-0.992	50.4736	PCB-132/161	5.08e+08	1.27	y	1.10	43:11	0.997	0.992-1.002	101.048
PCB-108/112	3.73e+08	1.63	y	1.28	38:34	0.991	0.986-0.996	106.396	PCB-153	2.83e+08	1.16	y	1.25	43:21	1.000	0.995-1.005	49.8083
PCB-83	2.09e+08	1.55	y	1.52	38:44	0.995	0.990-1.000	50.3165	PCB-168	3.36e+08	1.23	y	1.45	43:34	1.005	1.001-1.011	50.8862
PCB-97	1.73e+08	1.58	y	1.18	38:55	1.000	0.995-1.005	53.4494	PCB-141	2.27e+08	1.23	y	1.09	44:05	1.000	0.995-1.005	50.4850
PCB-86	1.16e+08	1.55	y	0.84	39:04	1.004	0.999-1.009	50.2910	PCB-137	2.20e+08	1.21	y	1.06	44:28	1.009	1.004-1.014	49.9841
B-87/117/125	7.15e+08	1.59	y	1.55	39:12	1.007	1.002-1.012	168.219	PCB-130	1.95e+08	1.24	y	0.96	44:34	1.011	1.006-1.016	48.7253
PCB-111/115	4.83e+08	1.61	y	1.63	39:21	1.011	1.006-1.016	107.811	PCB-138/163/164	8.45e+08	1.23	y	1.29	44:57	1.001	0.996-1.006	152.343
PCB-85/116	3.79e+08	1.60	y	1.30	39:29	1.015	1.010-1.020	106.111	PCB-158/160	5.74e+08	1.23	y	1.34	45:12	1.006	1.001-1.011	99.6709
PCB-120	2.53e+08	1.60	y	1.68	39:43	1.021	1.016-1.026	55.0149	PCB-129	1.88e+08	1.24	y	0.85	45:26	1.012	1.007-1.017	51.2779
PCB-110	2.22e+08	1.61	y	1.56	39:52	1.025	1.020-1.030	52.0165	PCB-166	2.85e+08	1.23	y	1.19	45:54	0.993	0.988-0.998	50.6400
PCB-82	1.39e+08	1.60	y	0.76	40:29	0.976	0.971-0.981	50.2104	PCB-159	2.68e+08	1.23	y	1.11	46:13	1.000	0.996-1.006	50.8132
PCB-124	2.87e+08	1.59	y	1.47	41:10	0.993	0.988-0.998	53.4066	PCB-128/162	4.97e+08	1.22	y	1.05	46:30	1.006	1.002-1.012	100.016
PCB-107/109	5.04e+08	1.60	y	1.32	41:19	0.996	0.991-1.001	104.320	PCB-167	3.11e+08	1.23	y	1.20	46:54	1.000	0.995-1.005	51.0049
PCB-123	2.28e+08	1.60	y	1.17	41:30	1.001	0.996-1.006	53.3648	PCB-156	2.90e+08	1.22	y	1.14	48:11	1.000	0.996-1.006	52.5692
PCB-106/118	4.82e+08	1.60	y	1.17	41:41	1.001	0.996-1.006	106.179	PCB-157	2.97e+08	1.23	y	1.16	48:28	1.000	0.995-1.005	49.2491
PCB-114	2.90e+08	1.58	y	1.30	42:20	1.000	0.995-1.005	49.1596	PCB-169	2.40e+08	1.24	y	1.12	50:36	1.000	0.995-1.005	48.7538
PCB-122	2.46e+08	1.62	y	1.12	42:28	1.004	0.999-1.009	48.2127									
PCB-105	2.76e+08	1.60	y	1.30	43:12	1.000	0.995-1.005	48.3606	PCB-188	2.92e+08	1.06	y	1.58	42:59	1.001	0.996-1.006	52.1928
PCB-127	2.99e+08	1.62	y	1.33	43:32	1.001	0.996-1.006	47.9290	PCB-184	2.93e+08	1.07	y	1.63	43:26	1.011	1.006-1.016	50.6391
PCB-126	2.32e+08	1.62	y	1.18	45:26	1.000	0.995-1.005	50.7264	PCB-179	2.24e+08	1.05	y	1.30	44:13	1.029	1.024-1.034	48.4480
									PCB-176	2.56e+08	1.06	y	1.48	44:41	1.040	1.035-1.045	48.9138
PCB-155	1.54e+08	1.30	y	1.11	37:10	1.001	0.966-1.006	53.9518	PCB-186	2.63e+08	1.07	y	1.45	45:17	1.054	1.050-1.060	50.9837
PCB-150	1.39e+08	1.28	y	1.00	38:26	1.035	1.030-1.040	54.4769	PCB-178	1.86e+08	1.06	y	1.03	45:47	1.066	1.061-1.071	50.7103
PCB-152	1.57e+08	1.28	y	1.12	38:55	1.047	1.043-1.053	54.9366	PCB-175	1.75e+08	1.06	y	1.01	46:08	1.074	1.069-1.079	48.8422
PCB-145	1.73e+08	1.29	y	1.20	39:21	1.059	1.055-1.065	56.0923	PCB-182/187	4.46e+08	1.07	y	1.25	46:18	1.078	1.073-1.083	100.461
PCB-136	1.60e+08	1.28	y	1.18	39:41	1.068	1.064-1.074	52.8648	PCB-183	2.12e+08	1.07	y	1.21	46:37	1.085	1.081-1.091	49.3750
PCB-148	1.11e+08	1.29	y	0.74	39:47	1.071	1.066-1.076	58.3252	PCB-185	2.29e+08	1.06	y	1.80	47:17	0.956	0.951-0.961	51.1232
PCB-154	1.22e+08	1.28	y	0.86	40:17	1.084	1.080-1.090	55.6377	PCB-174	1.77e+08	1.04	y	1.38	47:38	0.963	0.958-0.968	51.5103
PCB-151	1.02e+08	1.28	y	0.75	40:55	1.101	1.097-1.107	53.3408	PCB-181	1.86e+08	1.06	y	1.38	47:45	0.965	0.960-0.970	54.3373
PCB-135	1.15e+08	1.26	y	0.79	41:08	1.107	1.103-1.113	56.4886	PCB-177	1.64e+08	1.06	y	1.26	47:55	0.969	0.963-0.973	52.4079
PCB-144	1.09e+08	1.30	y	0.76	41:15	1.110	1.105-1.117	55.6564	PCB-171	2.17e+08	1.05	y	1.58	48:13	0.975	0.970-0.980	55.0728
PCB-147	1.27e+08	1.30	y	0.82	41:22	1.114	1.109-1.121	60.2748	PCB-173	1.46e+08	1.06	y	1.11	48:38	0.983	0.978-0.988	52.8956
PCB-139/149	2.29e+08	1.28	y	0.76	41:38	1.121	1.116-1.128	117.324	PCB-172	2.14e+08	1.07	y	1.63	49:05	0.992	0.987-0.997	52.7293
PCB-140	1.04e+08	1.29	y	0.72	41:49	1.126	1.121-1.133	56.0234	PCB-192	2.24e+08	1.05	y	1.74	49:17	0.996	0.991-1.001	51.8294
PCB-134/143	4.39e+08	1.22	y	0.92	42:15	0.975	0.970-0.980	105.234	PCB-180	1.79e+08	1.06	y	1.34	49:30	1.001	0.995-1.005	53.4561

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: *Dmy*

Date: *10/3/14*

Client ID: OPR  
Lab ID: B4I0107-BS1

Filename: 141002E1 S:2 Acq: 2-OCT-14 11:03:55  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST141002E1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	2.11e+08	1.05 y	1.72	49:42	1.005	0.999-1.009	49.5447	
PCB-191	2.01e+08	1.06 y	1.69	49:57	1.010	1.004-1.014	47.6831	
PCB-170	1.66e+08	1.06 y	1.60	50:59	1.000	0.995-1.005	53.5411	
PCB-190	2.13e+08	1.06 y	2.21	51:08	1.004	0.998-1.008	49.5293	
PCB-189	1.93e+08	1.05 y	1.55	52:28	1.000	0.995-1.005	52.5466	
PCB-202	1.64e+08	0.90 y	1.08	48:25	1.001	0.995-1.005	52.5044	
PCB-201	1.64e+08	0.90 y	1.15	48:54	1.011	1.005-1.015	49.2683	
PCB-204	1.62e+08	0.90 y	1.14	49:03	1.014	1.008-1.018	49.2014	
PCB-197	1.53e+08	0.90 y	1.07	49:22	1.020	1.015-1.025	49.2224	
PCB-200	1.48e+08	0.91 y	1.06	50:14	1.038	1.032-1.044	48.3330	
PCB-198	1.07e+08	0.90 y	0.76	51:34	1.066	1.059-1.069	49.0527	
PCB-199	1.06e+08	0.91 y	0.80	51:40	1.068	1.061-1.071	46.0512	
- PCB-196/203	2.29e+08	0.90 y	0.80	51:56	1.073	1.066-1.076	98.7190	
- PCB-195	1.38e+08	0.91 y	1.23	53:06	0.984	0.979-0.989	44.7985	
PCB-194	1.36e+08	0.91 y	1.21	53:58	1.000	0.995-1.005	44.8009	
PCB-205	1.73e+08	0.90 y	1.54	54:15	1.005	1.001-1.011	44.8943	
PCB-208	1.90e+08	1.32 y	0.93	53:14	1.000	0.995-1.005	49.5657	
PCB-207	2.10e+08	1.32 y	1.08	53:33	1.006	1.001-1.011	46.8974	
PCB-206	1.16e+08	1.32 y	1.02	55:37	1.000	0.995-1.005	49.7944	
PCB-209	1.27e+08	1.17 y	1.17	56:59	1.000	0.995-1.005	50.3181	

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.71e+09	3.05 y	16:14	1.27	153.701	
Total Di-PCB	1.10e+10	1.60 y	20:13	1.21	1106.94	
Total Tri-PCB	2.90e+09	1.07 y	24:20	1.10	443.148	
Total Tri-PCB	3.56e+09	0.94 y	28:02	1.21	663.298	Sum:1106.45
Total Tetra-PCB	1.20e+10	0.75 y	28:05	1.09	1997.75	
Total Penta-PCB	8.36e+09	1.60 y	32:47	1.18	2171.76	
Total Penta-PCB	1.48e+09	1.58 y	42:20	1.25	269.782	Sum:2441.54
Total Hexa-PCB	1.80e+09	1.30 y	37:10	0.90	785.393	
Total Hexa-PCB	7.31e+09	1.22 y	42:15	1.11	1444.25	Sum:2229.65
Total Hepta-PCB	5.13e+09	1.06 y	42:59	1.42	1243.54	
Total Octa-PCB	1.23e+09	0.90 y	48:25	0.96	442.352	
Total Octa-PCB	4.65e+08	0.91 y	53:06	1.33	139.867	Sum:582.220
Total Nona-PCB	5.28e+08	1.32 y	53:14	1.01	149.606	
Total Deca-PCB	1.27e+08	1.17 y	56:59	1.17	50.3181	

Total PCB Conc:10913.1556060

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMJ

Date: 10/31/14

Client ID: OPR  
Lab ID: B4I0107-BS1

Filename: 141002E1 S:2 Acq: 2-OCT-14 11:03:55  
GC Column ID: ZB-1 ICAL: PCBVG8-6-23-14 wt/vol:2.0000

ConCal: ST141002E1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	8.39e+08	3.44 y	0.87	16:13	0.623	0.629-0.635		21100	84.6
13C-PCB-3	8.93e+08	3.43 y	0.91	18:50	0.723	0.725-0.733		21500	86.1
13C-PCB-4	5.34e+08	1.59 y	0.59	20:10	0.774	0.775-0.783		20000	80.1
13C-PCB-9	8.28e+08	1.58 y	0.90	21:57	0.843	0.842-0.850		20300	81.2
13C-PCB-11	8.99e+08	1.56 y	0.94	25:20	0.973	0.968-0.978		21100	84.3
13C-PCB-19	4.25e+08	1.11 y	0.53	24:19	0.934	0.930-0.940		17600	70.3
13C-PCB-28	4.48e+08	0.98 y	0.93	29:12	1.004	0.999-1.009		18300	73.0
13C-PCB-32	6.82e+08	1.11 y	0.80	27:14	1.046	1.040-1.050		18800	75.3
13C-PCB-37	4.34e+08	1.00 y	0.84	33:04	1.137	1.131-1.143		19700	78.6
13C-PCB-47	4.95e+08	0.77 y	0.81	32:06	0.871	0.866-0.874		22000	88.0
13C-PCB-52	4.72e+08	0.78 y	0.77	31:36	0.857	0.853-0.861		22100	88.4
13C-PCB-54	5.68e+08	0.78 y	0.97	28:04	0.761	0.758-0.766		21200	84.6
13C-PCB-70	6.32e+08	0.78 y	1.00	35:37	0.966	0.961-0.971		22900	91.5
13C-PCB-77	5.78e+08	0.78 y	0.94	39:45	1.078	1.073-1.083		22100	88.6
13C-PCB-80	6.66e+08	0.78 y	1.03	36:02	0.978	0.972-0.982		23300	93.3
13C-PCB-81	5.78e+08	0.78 y	0.92	39:09	1.062	1.057-1.067		22700	90.6
13C-PCB-95	2.90e+08	1.60 y	0.74	35:55	0.913	0.908-0.918		23300	93.2
13C-PCB-97	2.74e+08	1.62 y	0.70	38:55	0.989	0.984-0.994		23100	92.6
13C-PCB-101	3.04e+08	1.61 y	0.78	37:37	0.956	0.951-0.961		23100	92.3
13C-PCB-104	3.69e+08	1.61 y	1.00	32:46	0.833	0.828-0.836		21900	87.7
13C-PCB-105	4.39e+08	1.53 y	1.37	43:11	0.929	0.924-0.934		19500	78.1
13C-PCB-114	4.55e+08	1.53 y	1.36	42:19	0.910	0.905-0.915		20300	81.1
13C-PCB-118	3.87e+08	1.62 y	0.96	41:40	1.059	1.054-1.064		24000	96.1
13C-PCB-123	3.65e+08	1.61 y	0.89	41:29	1.054	1.050-1.060		24300	97.2
13C-PCB-126	3.87e+08	1.54 y	1.31	45:25	0.977	0.972-0.982		18000	71.9
13C-PCB-127	4.68e+08	1.54 y	1.47	43:30	0.936	0.931-0.941		19300	77.1
13C-PCB-138	4.29e+08	1.27 y	1.10	44:55	0.966	0.961-0.971		23700	94.8
13C-PCB-141	4.14e+08	1.27 y	1.07	44:04	0.948	0.943-0.953		23400	93.7
13C-PCB-153	4.55e+08	1.28 y	1.15	43:20	0.932	0.927-0.937		24100	96.5
13C-PCB-155	2.56e+08	1.29 y	0.84	37:09	0.944	0.939-0.949		18200	72.7
13C-PCB-156	4.86e+08	1.28 y	1.30	48:11	1.037	1.032-1.042		22800	91.0
13C-PCB-157	5.18e+08	1.30 y	1.36	48:27	1.043	1.038-1.048		23200	92.6
13C-PCB-159	4.75e+08	1.26 y	1.25	46:12	0.994	0.989-0.999		23100	92.5
13C-PCB-167	5.07e+08	1.27 y	1.35	46:53	1.009	1.004-1.014		22800	91.2
13C-PCB-169	4.39e+08	1.26 y	1.29	50:36	1.089	1.083-1.093		20800	83.0
13C-PCB-170	1.95e+08	0.47 y	0.54	50:58	1.096	1.089-1.101		21800	87.1
13C-PCB-180	2.49e+08	0.47 y	0.68	49:28	1.064	1.060-1.070		22100	88.3
13C-PCB-188	3.54e+08	0.47 y	0.92	42:58	0.924	0.919-0.929		23500	93.8
13C-PCB-189	2.38e+08	0.46 y	0.72	52:27	1.129	1.120-1.132		20100	80.6
13C-PCB-194	2.51e+08	0.91 y	0.80	53:58	0.995	0.990-1.000		24600	98.3
13C-PCB-202	2.89e+08	0.92 y	0.84	48:23	1.041	1.036-1.046		20900	83.8
13C-PCB-206	2.28e+08	0.78 y	0.65	55:36	1.025	1.021-1.031		27500	110
13C-PCB-208	4.13e+08	0.78 y	1.08	53:13	0.981	0.976-0.986		29900	119
13C-PCB-209	2.16e+08	1.20 y	0.61	56:58	1.050	1.045-1.055		27600	111

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	6.57e+08	0.77 y	1.02	37:56	1.029	1.023-1.034		23300	93.3
13C-PCB-178	2.34e+08	0.47 y	0.61	45:45	0.985	0.979-0.990		23200	92.8

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	6.57e+08	0.77 y	1.10	37:56	0.969	0.964-0.974		25700	103
13C-PCB-178	2.34e+08	0.47 y	0.90	45:45	0.925	0.920-0.930		26200	105

RS

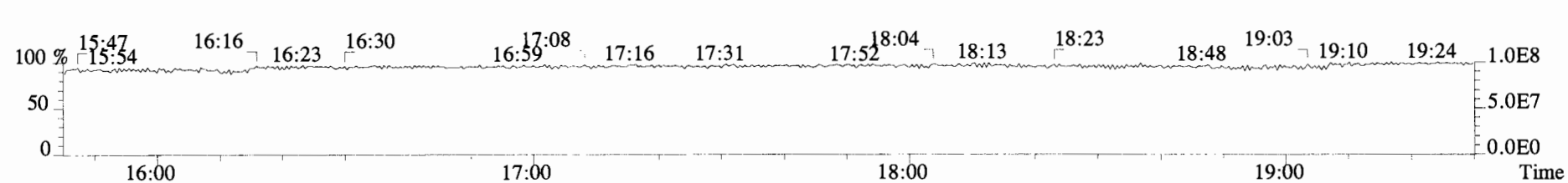
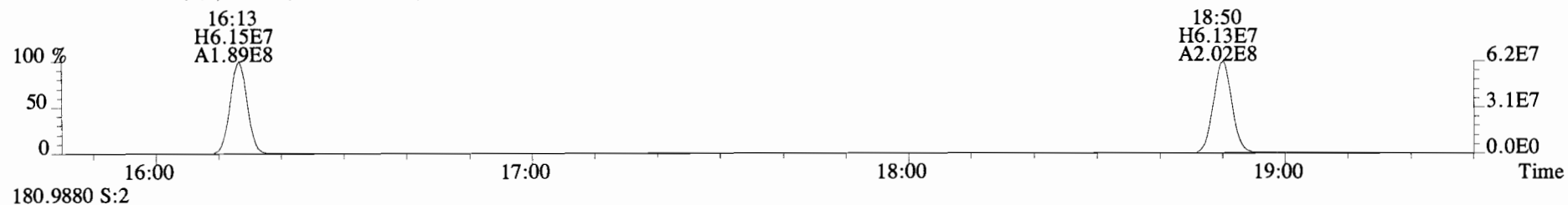
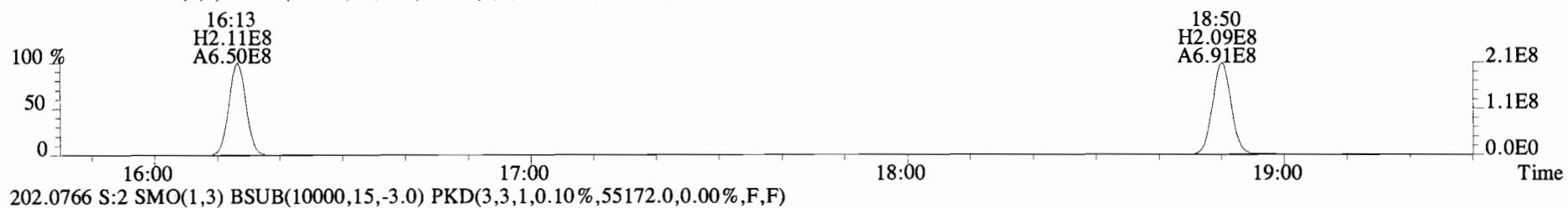
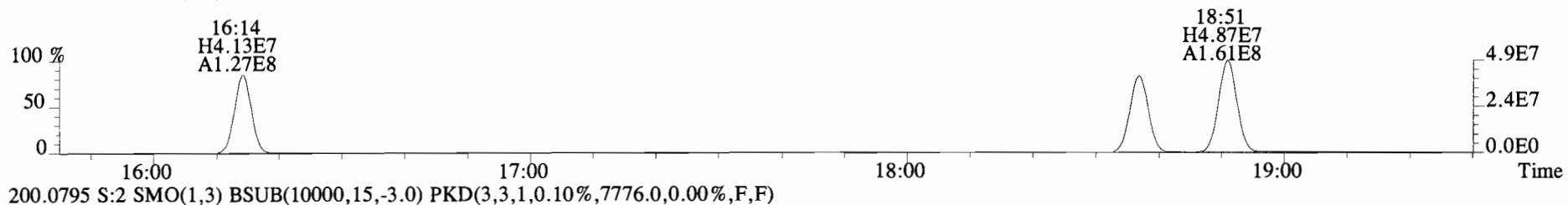
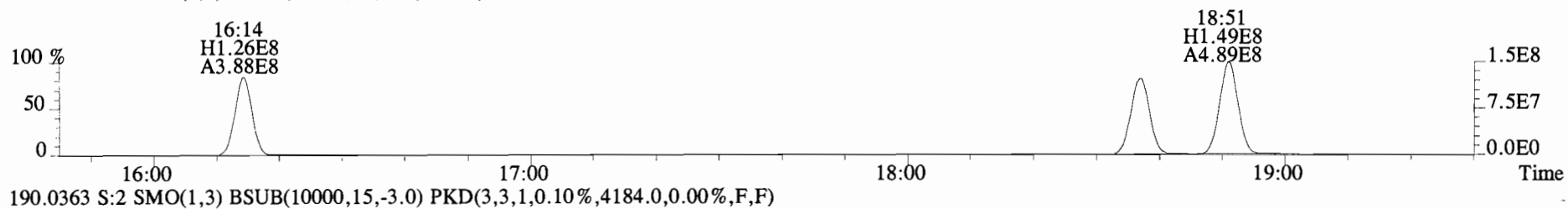
Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.14e+09	1.56 y	1.00	26:02	25000
13C-PCB-31	6.57e+08	0.97 y	1.00	29:05	25000
13C-PCB-60	6.92e+08	0.78 y	1.00	36:52	25000
13C-PCB-111	4.20e+08	1.61 y	1.00	39:20	25000
13C-PCB-128	4.12e+08	1.27 y	1.00	46:29	25000
13C-PCB-205	3.20e+08	0.90 y	1.00	54:14	25000

\* within 168°C method limits

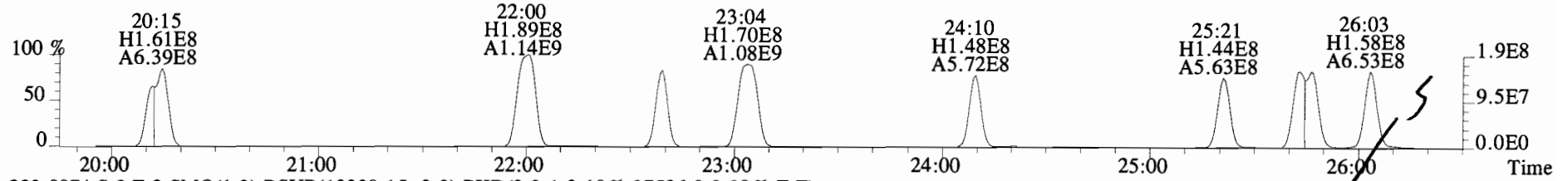
Analyst: DMS

Date: 10/3/14

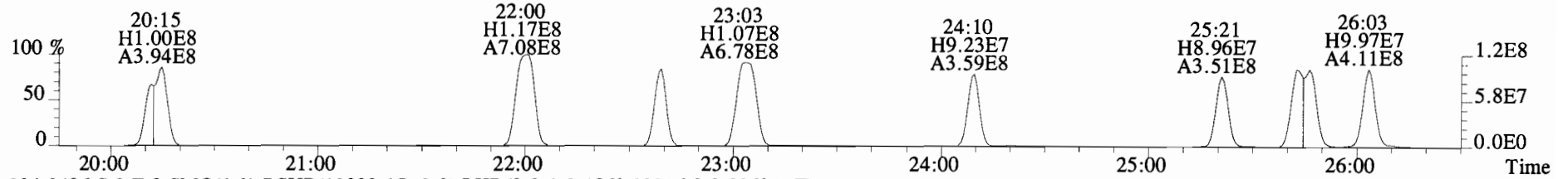
File:141002E1 #1-728 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5276.0,0.00%,F,F)



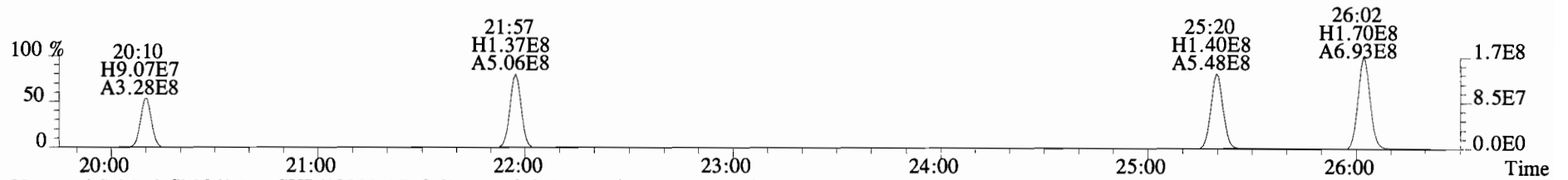
File:141002E1 #1-757 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37280.0,0.00%,F,F)



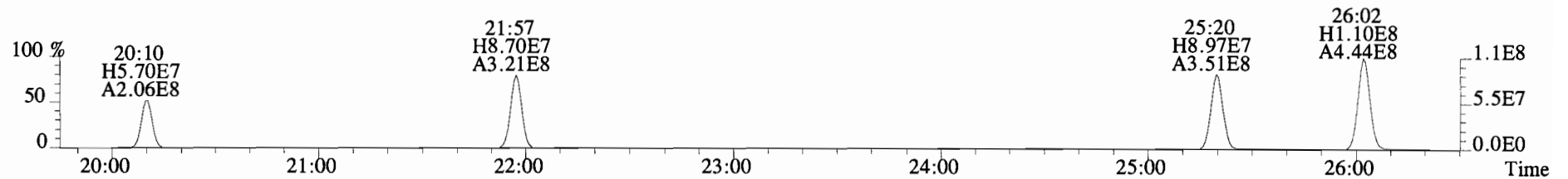
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27596.0,0.00%,F,F)



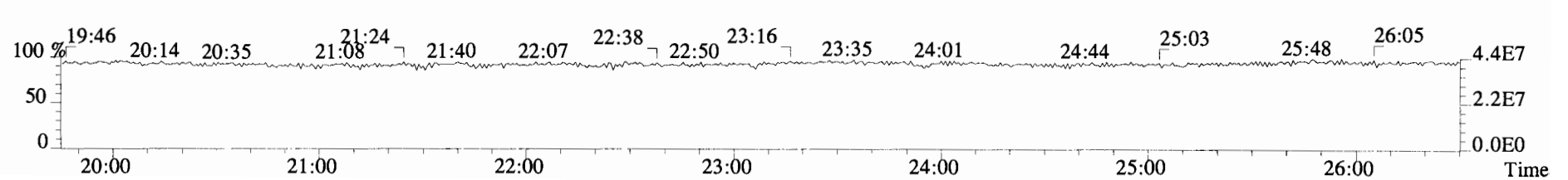
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13016.0,0.00%,F,F)



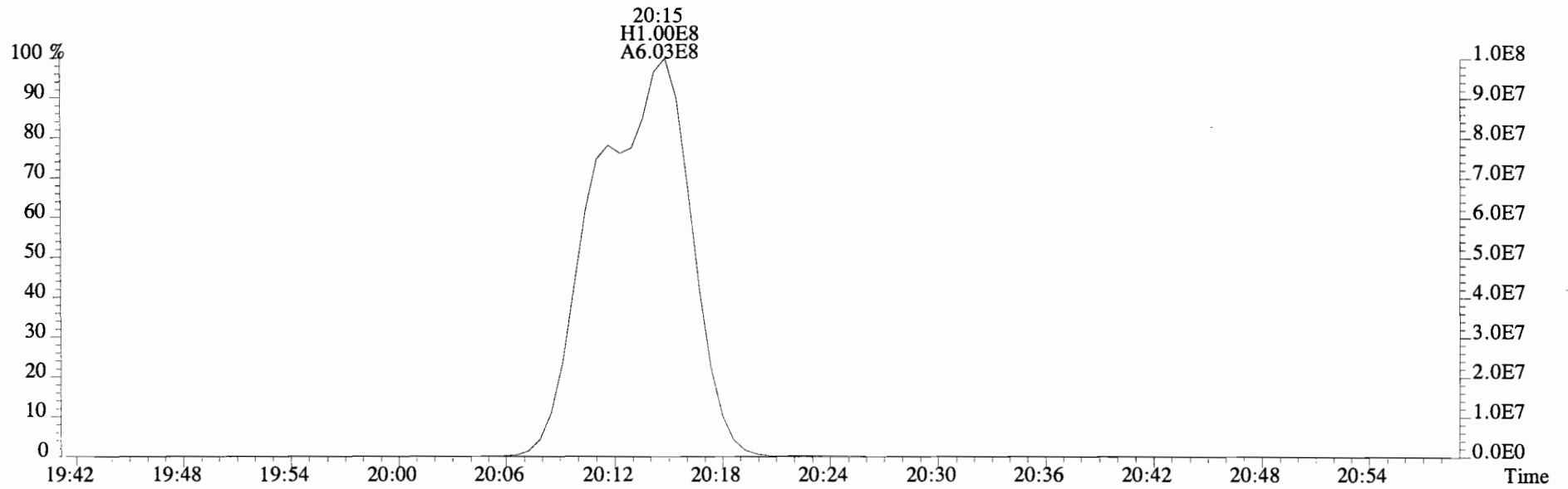
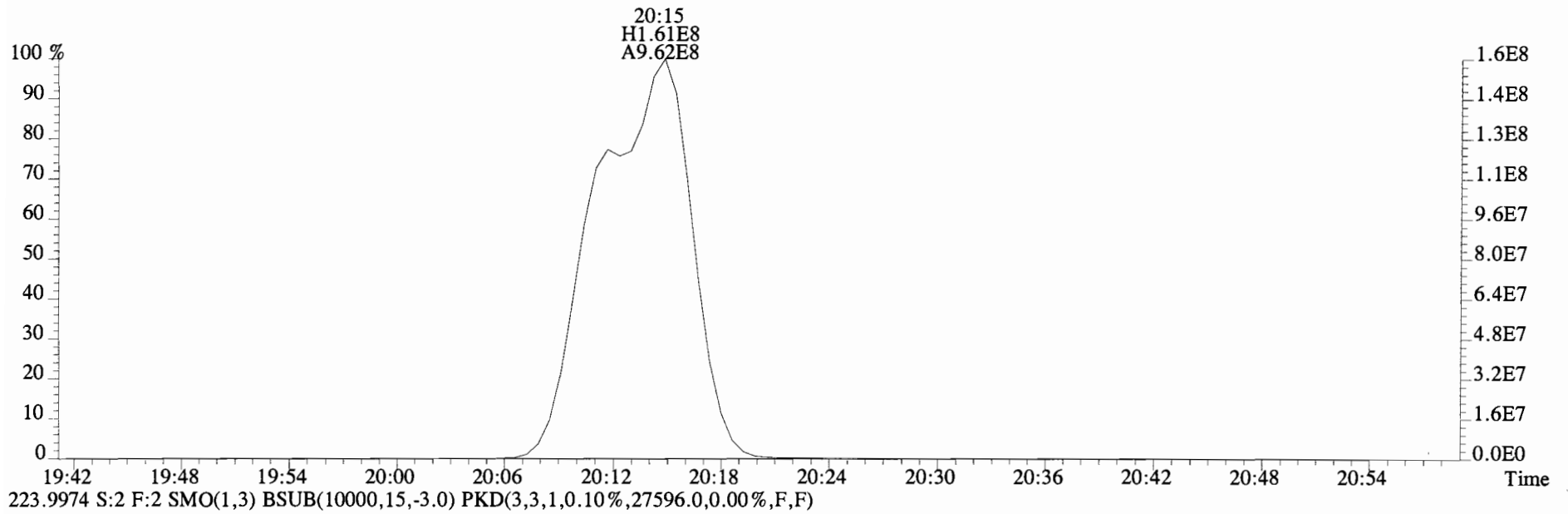
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8012.0,0.00%,F,F)



230.9856 S:2 F:2

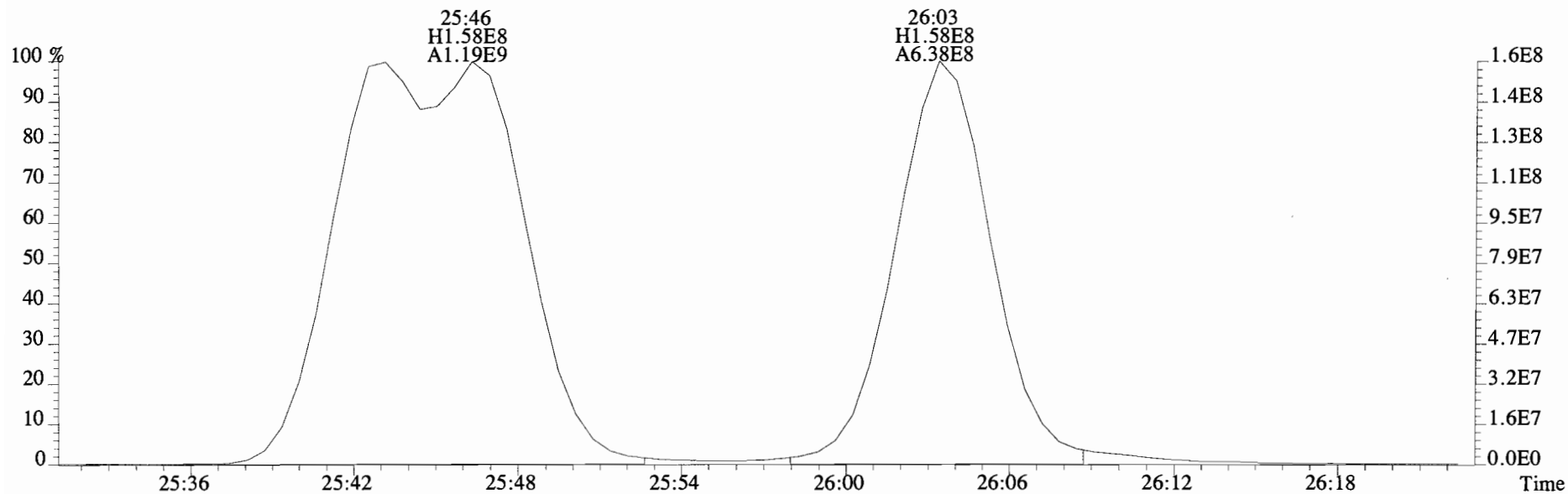


File:141002E1 #1-757 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BS1 OPR 2 Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37280.0,0.00%,F,F)

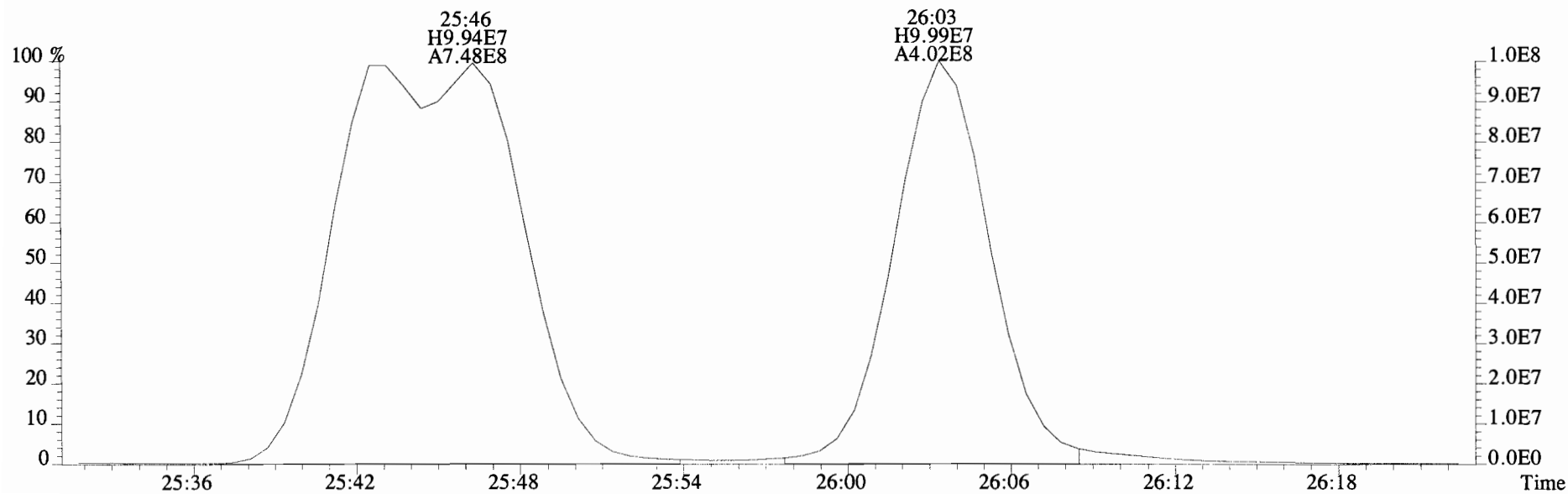




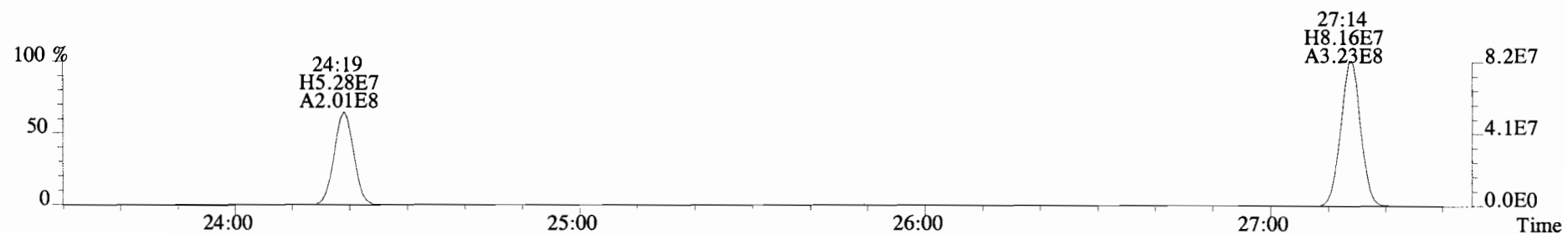
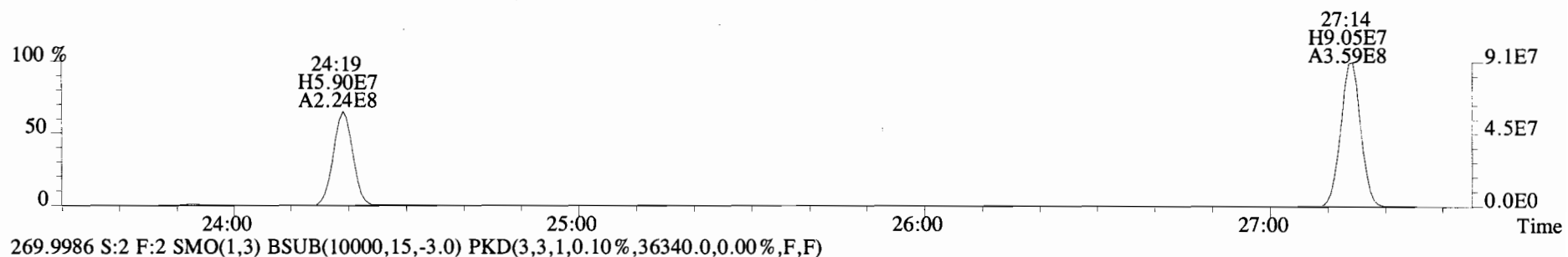
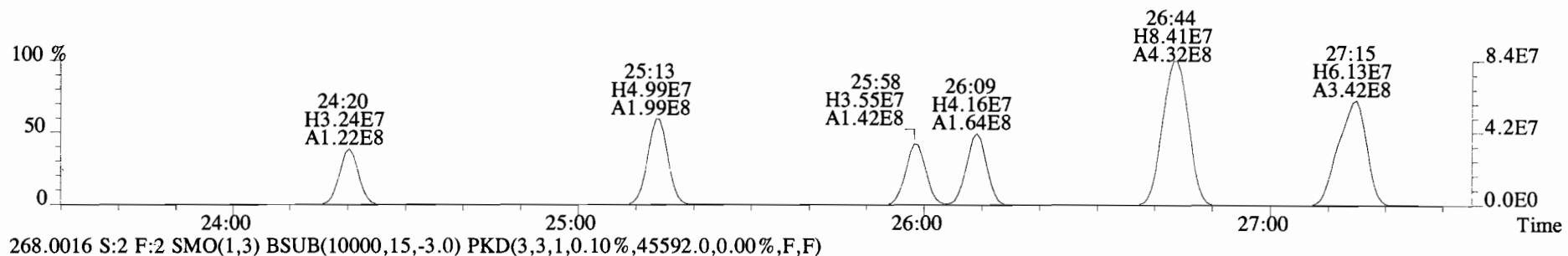
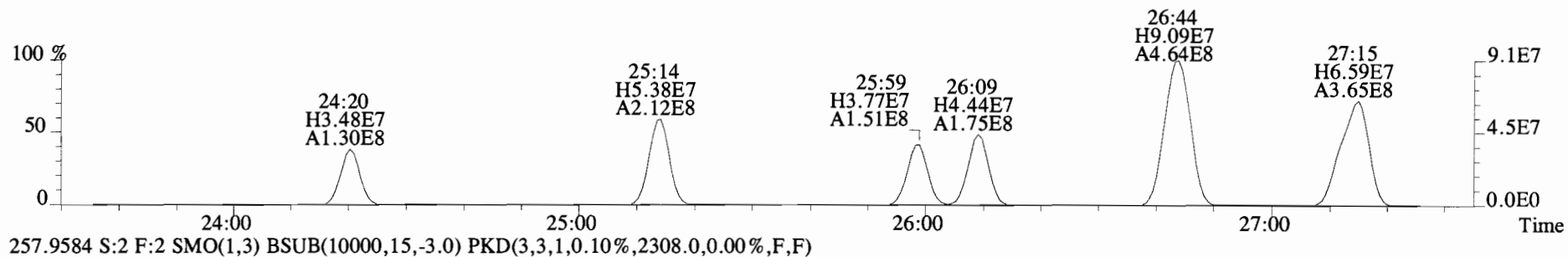
File:141002E1 #1-757 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37280.0,0.00%,F,F)



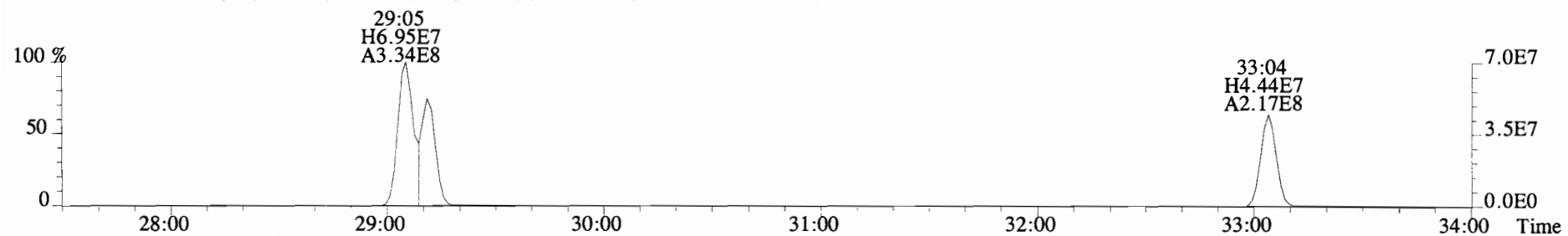
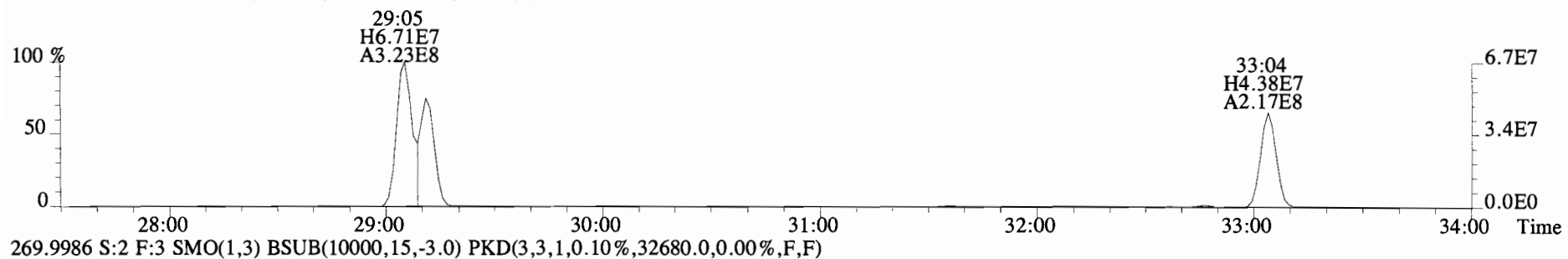
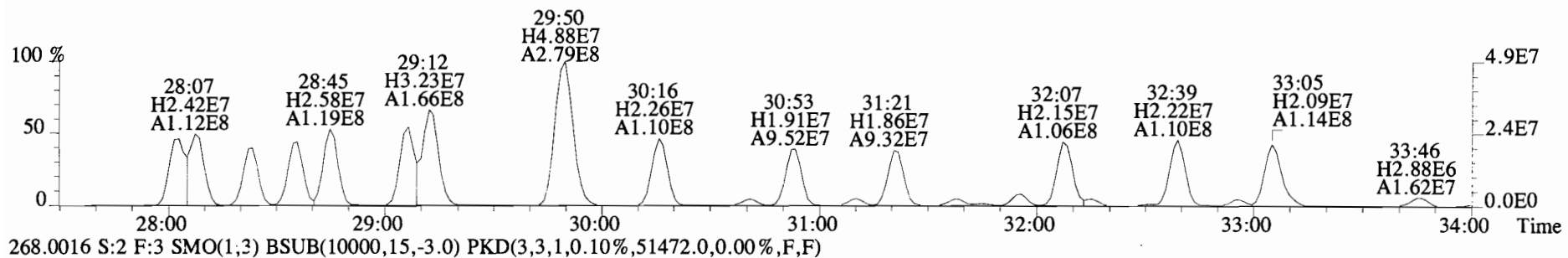
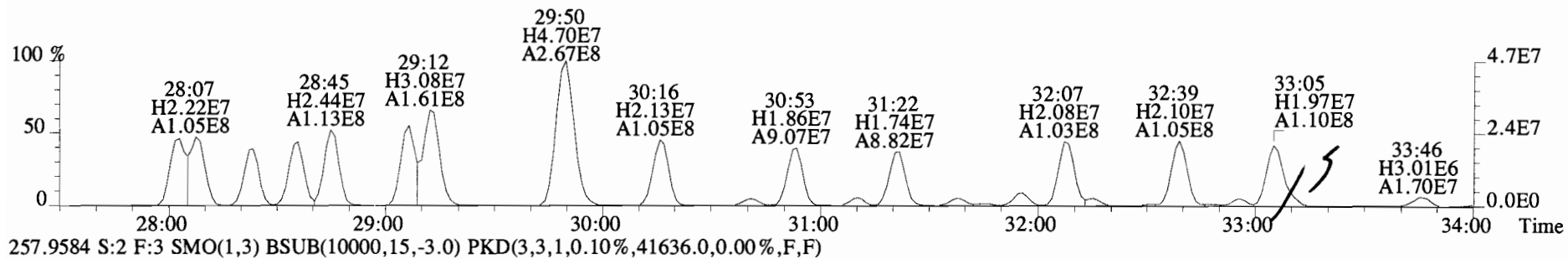
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27596.0,0.00%,F,F)



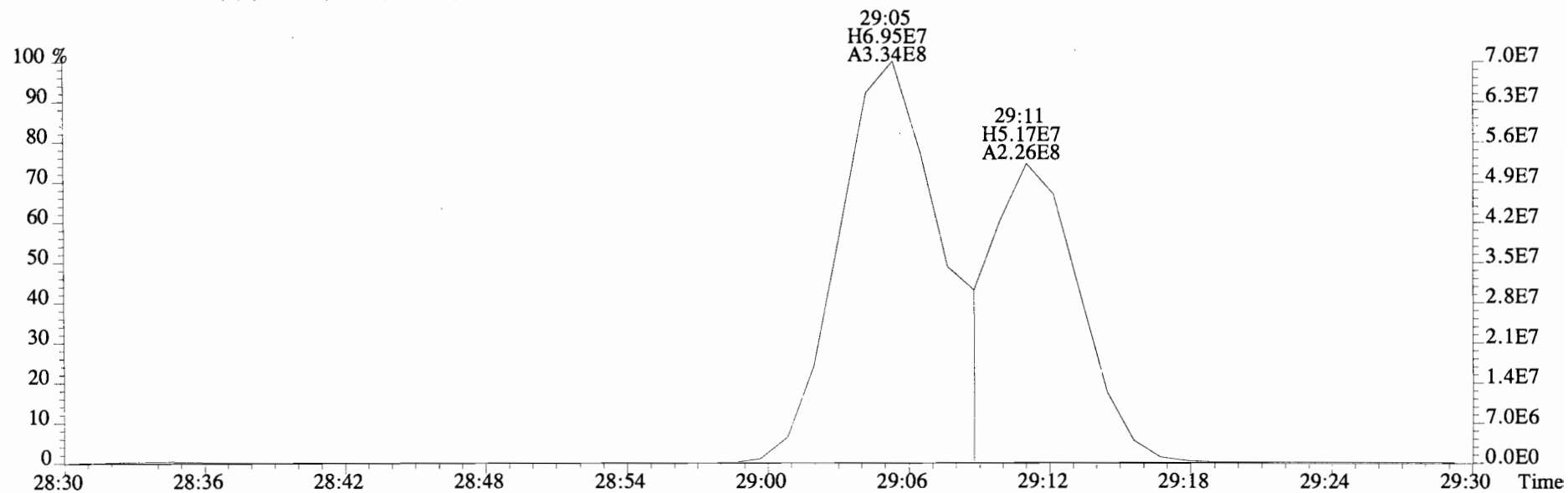
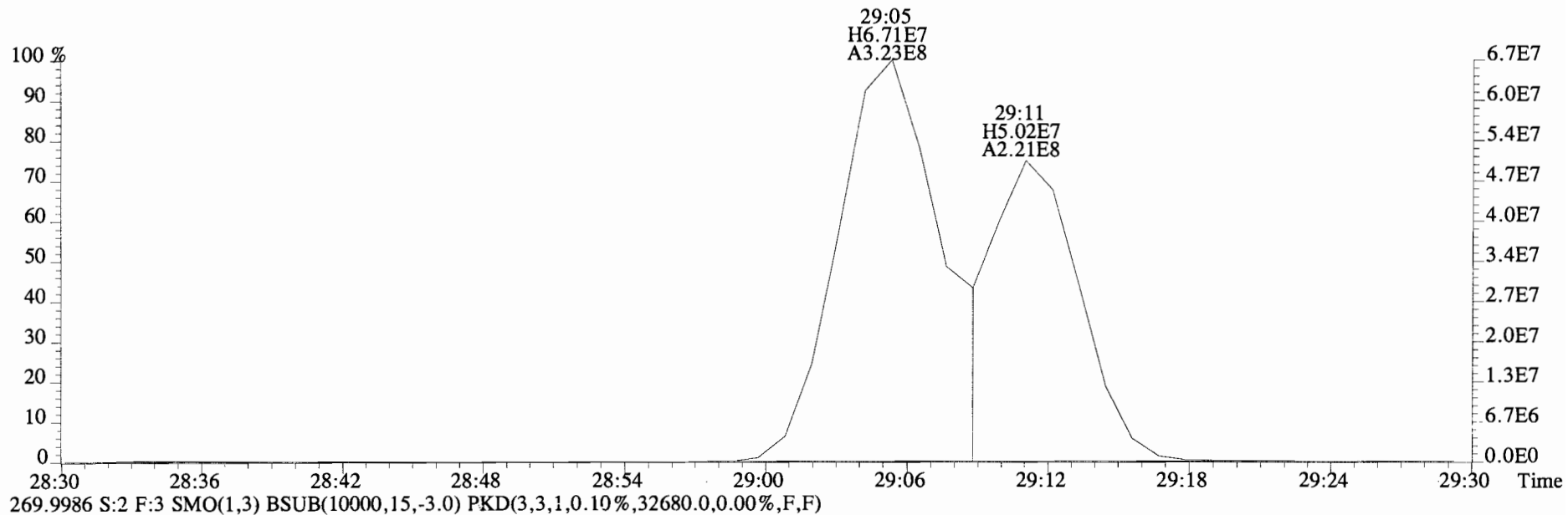
File:141002E1 #1-757 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6488.0,0.00%,F,F)



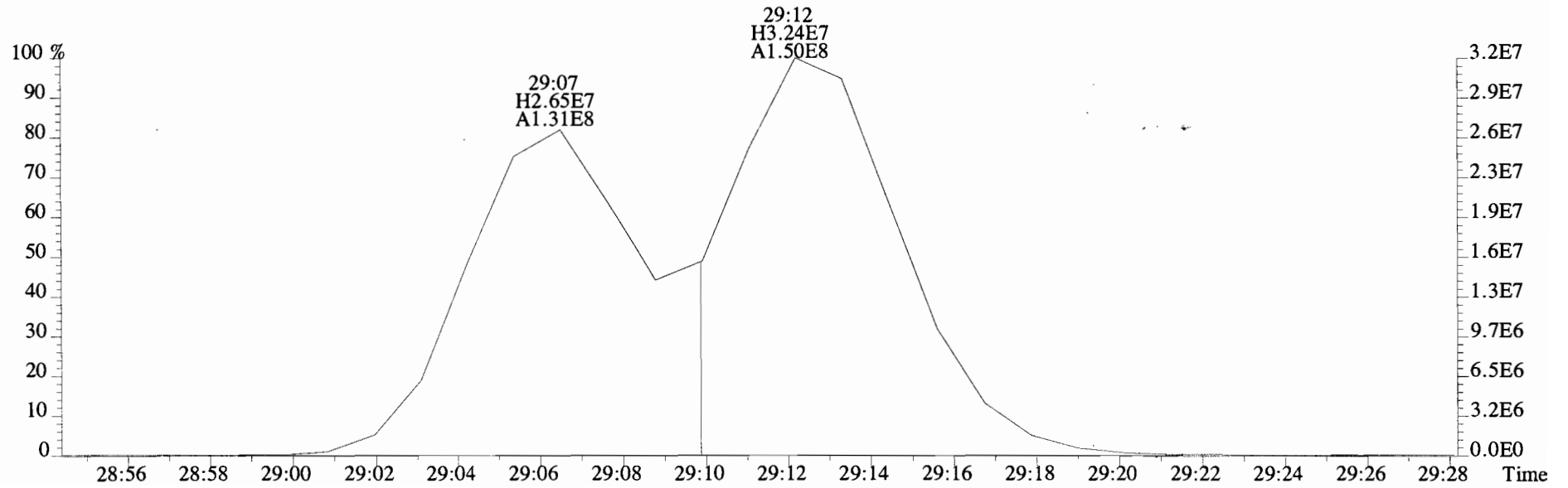
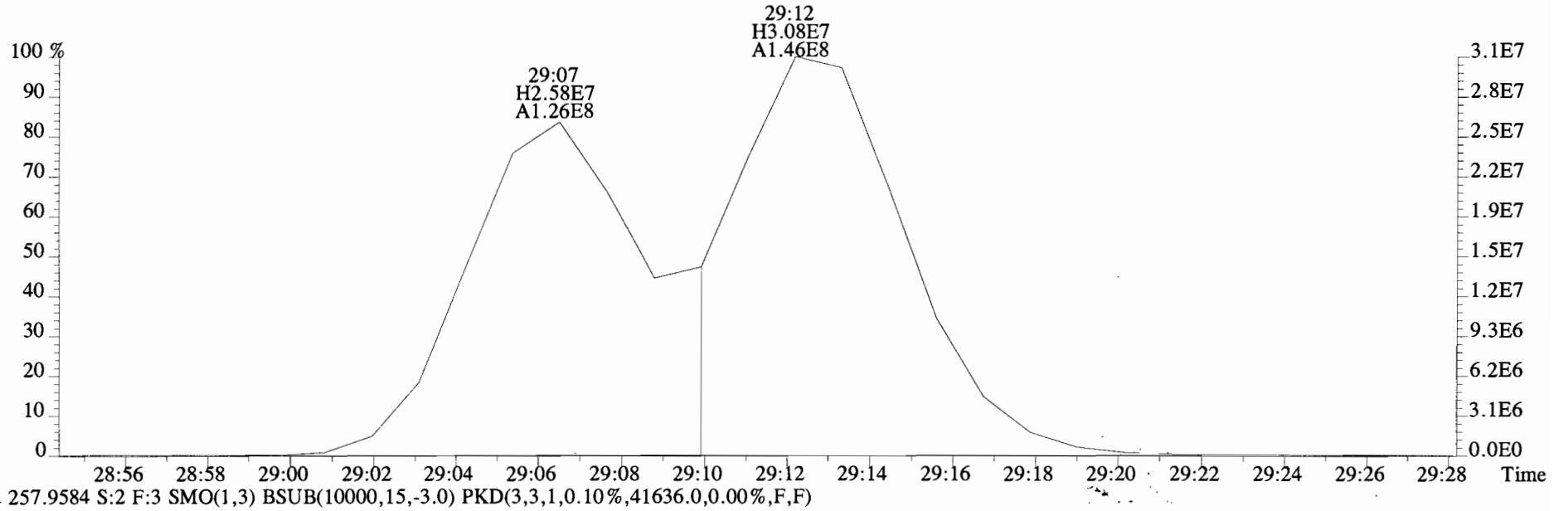
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45800.0,0.00%,F,F)



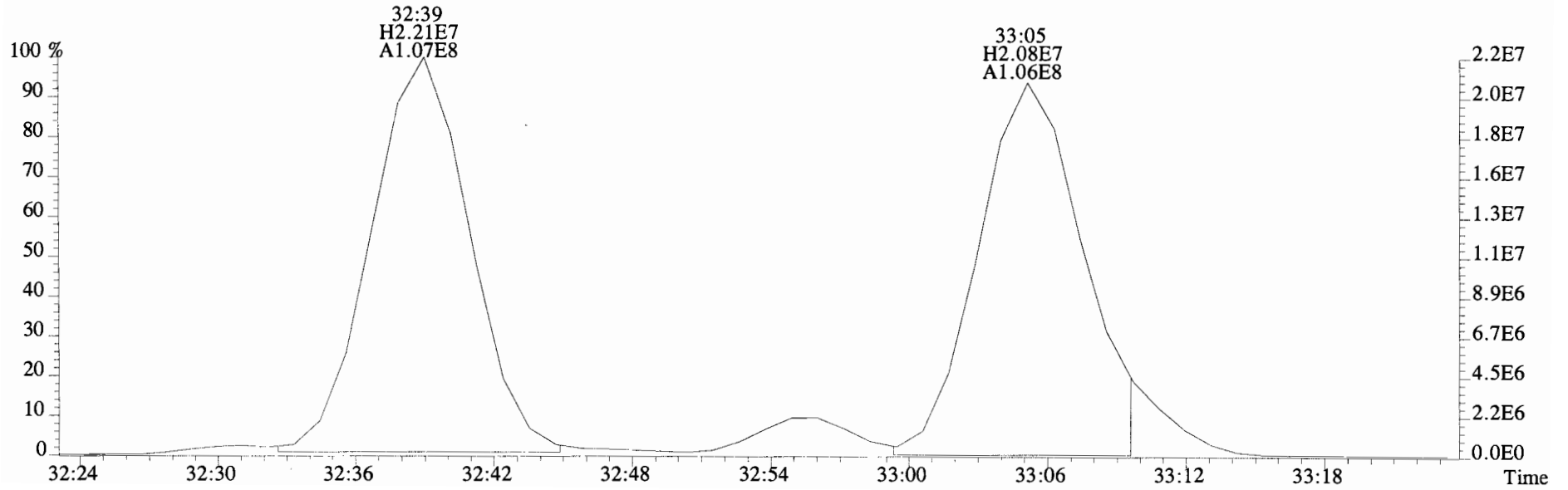
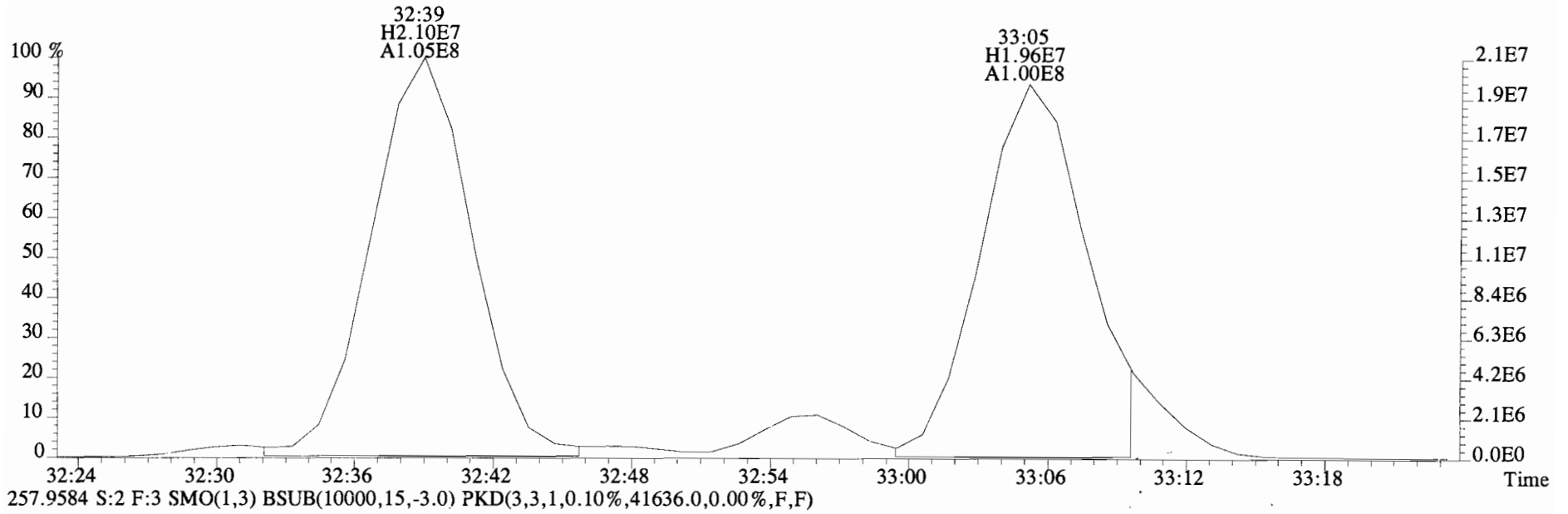
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,51472.0,0.00%,F,F)



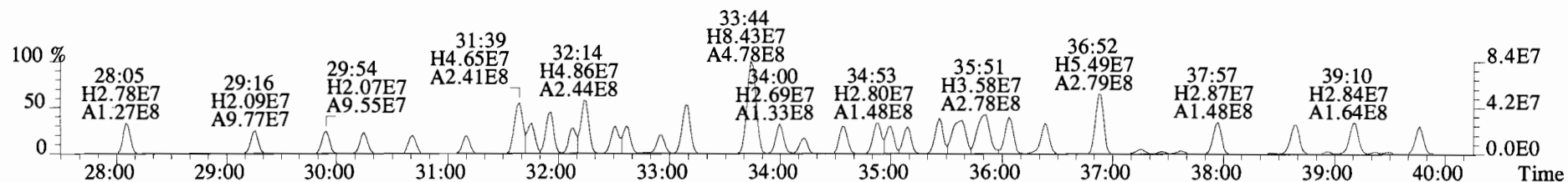
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45800.0,0.00%,F,F)



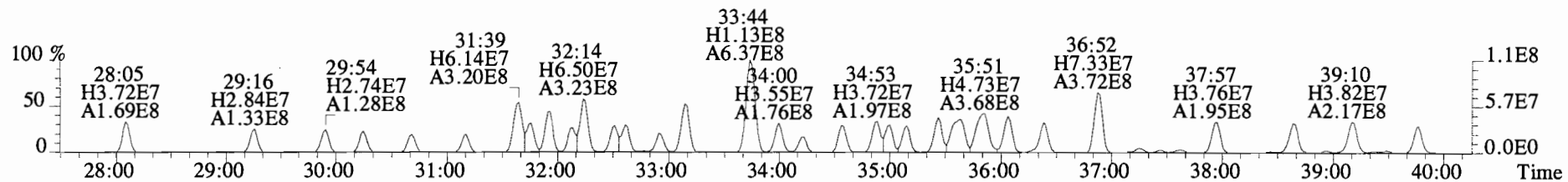
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BS1 OPR 2 Exp: PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45800.0,0.00%,F,F)



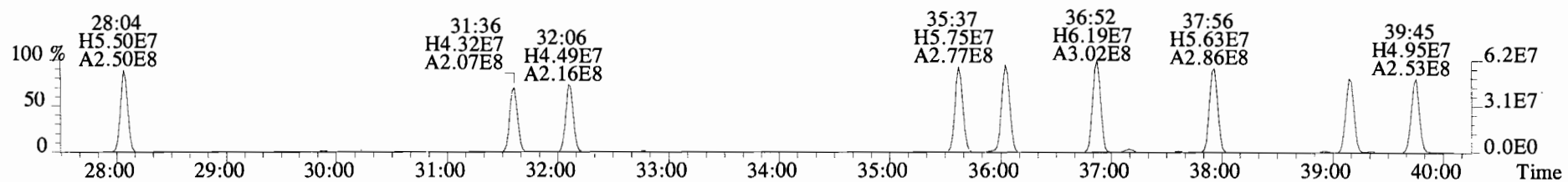
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,59292.0,0.00%,F,F)



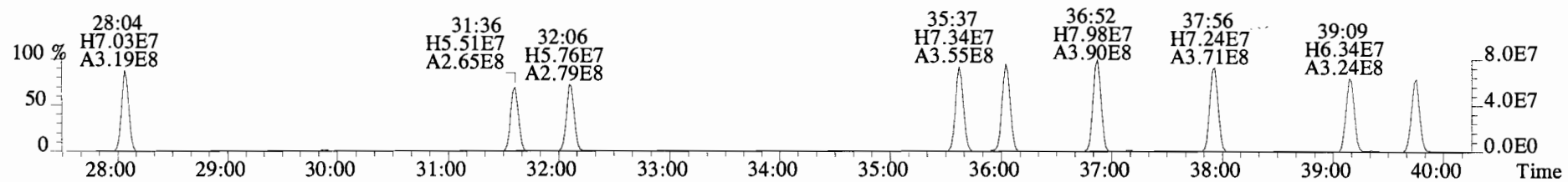
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,97348.0,0.00%,F,F)



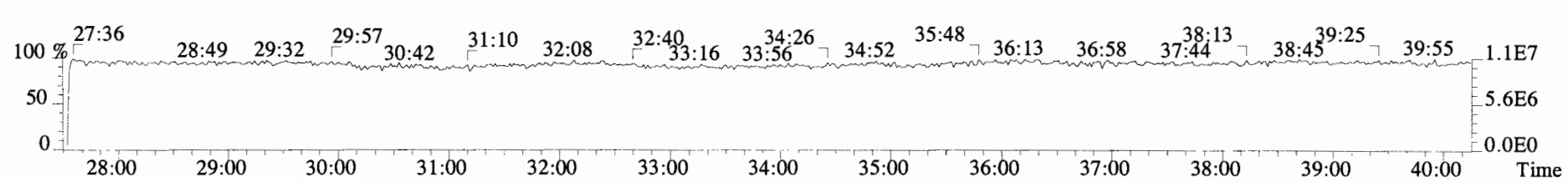
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16084.0,0.00%,F,F)



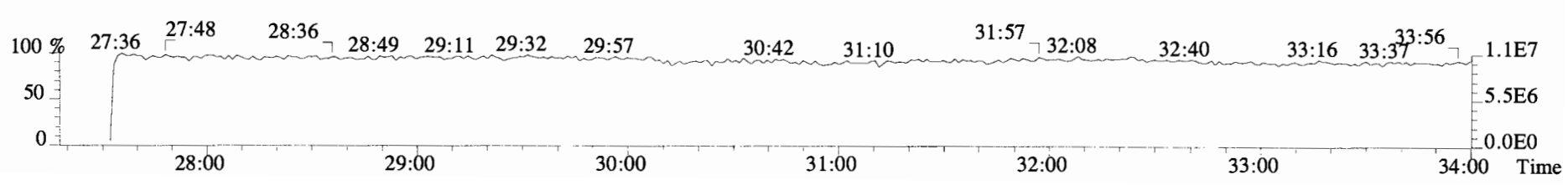
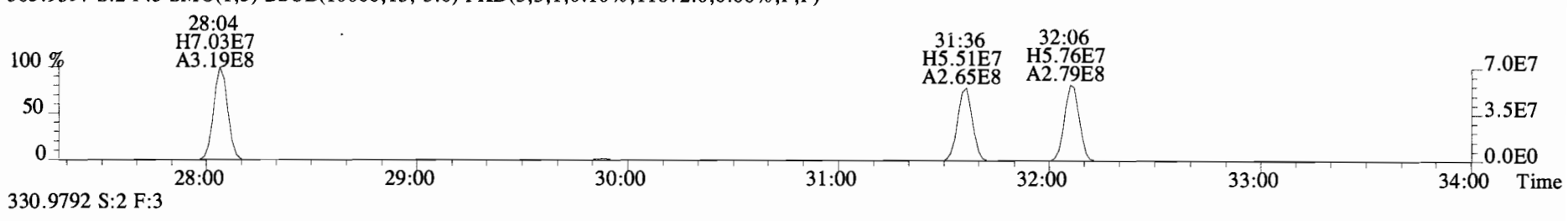
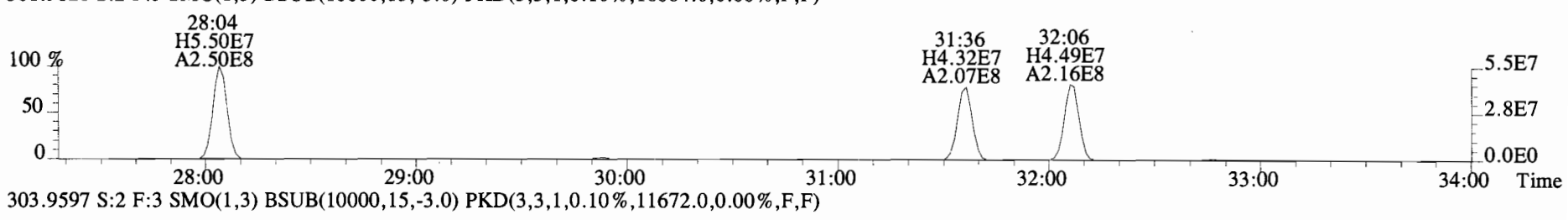
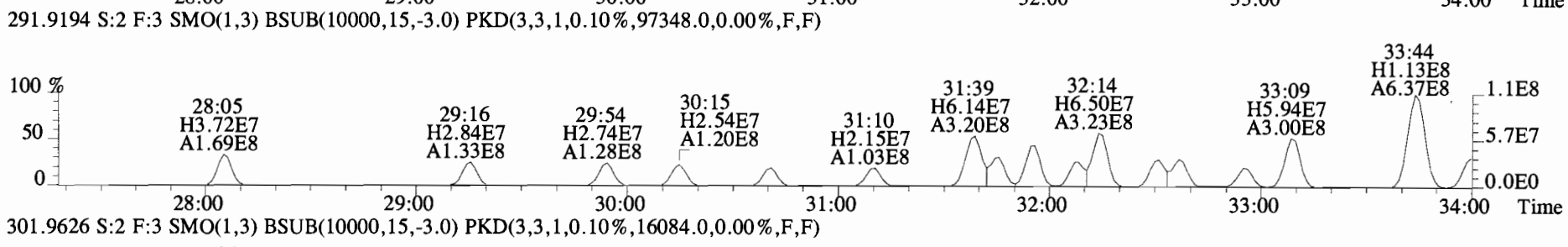
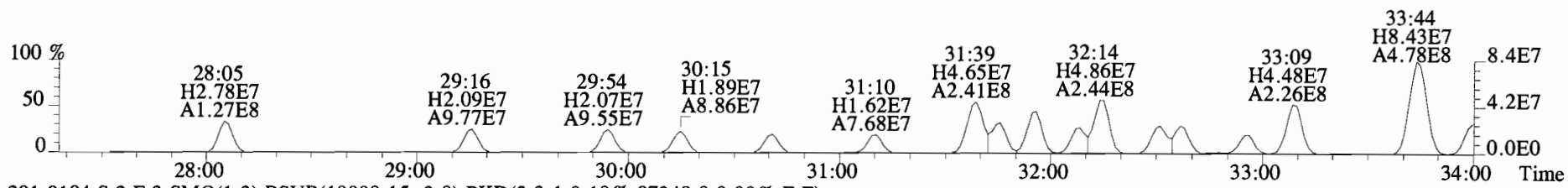
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11672.0,0.00%,F,F)



330.9792 S:2 F:3

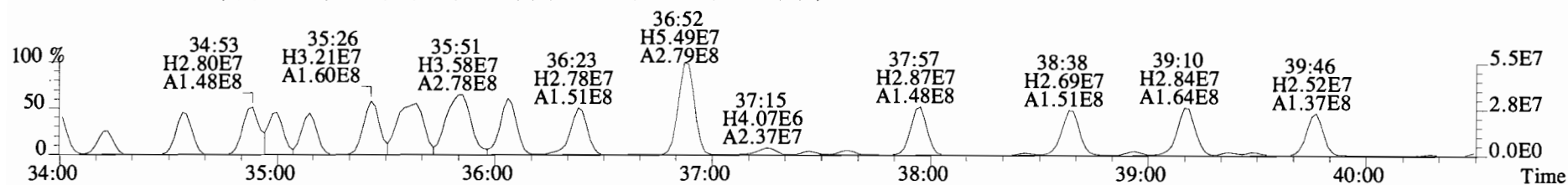


File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,59292.0,0.00%,F,F)

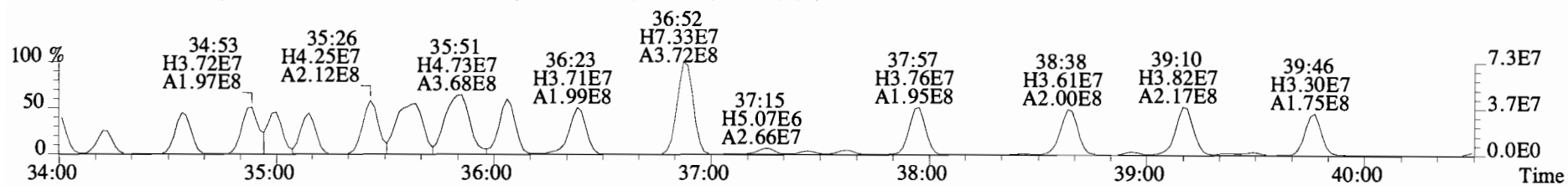




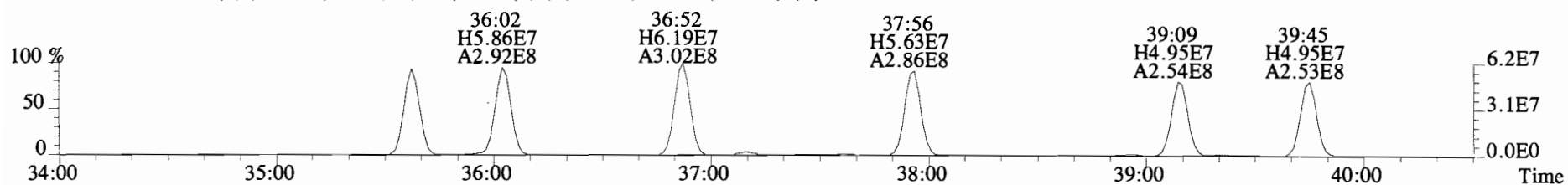
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,59292.0,0.00%,F,F)



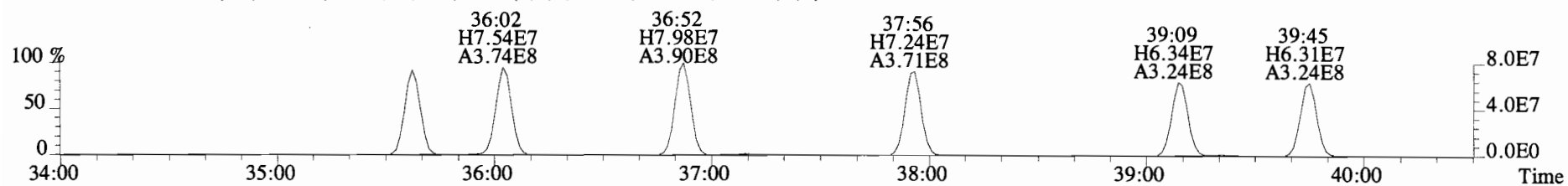
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,97348.0,0.00%,F,F)



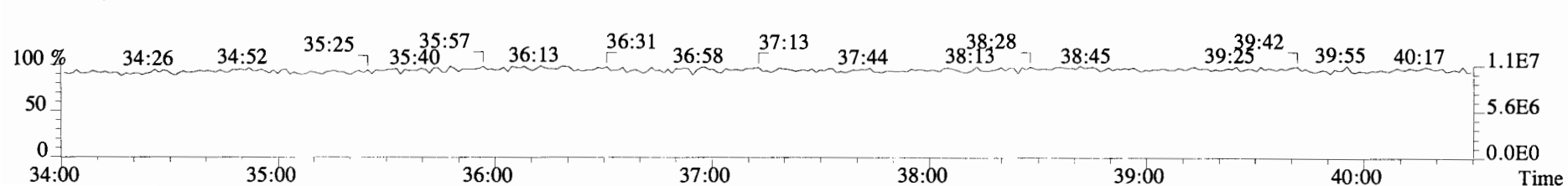
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16084.0,0.00%,F,F)



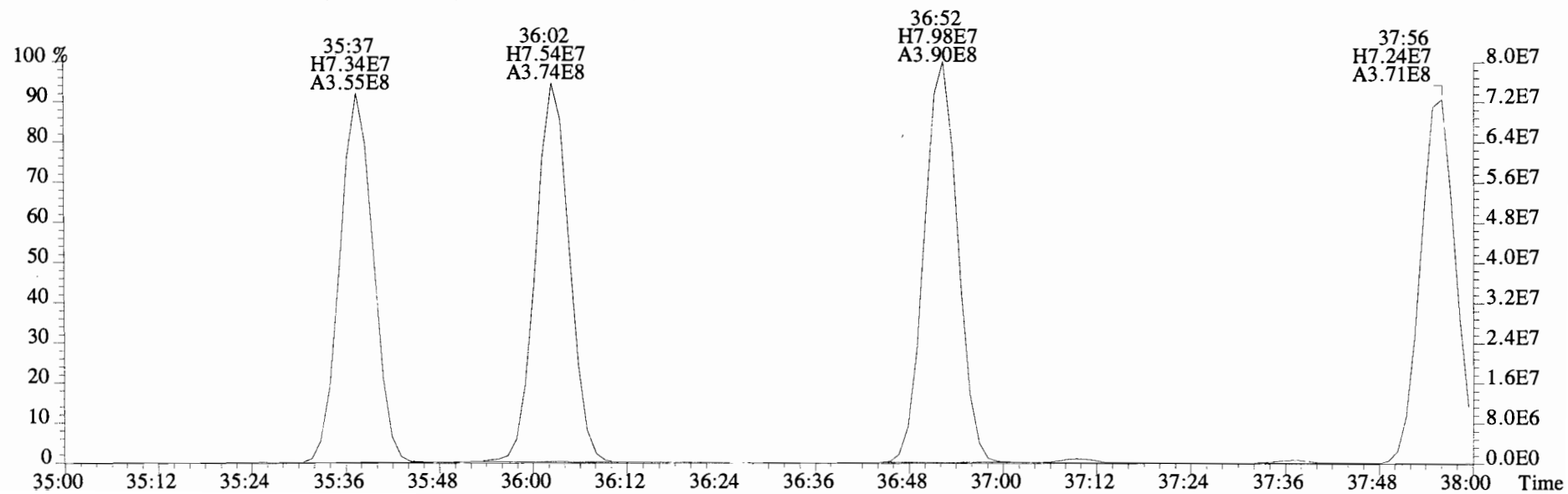
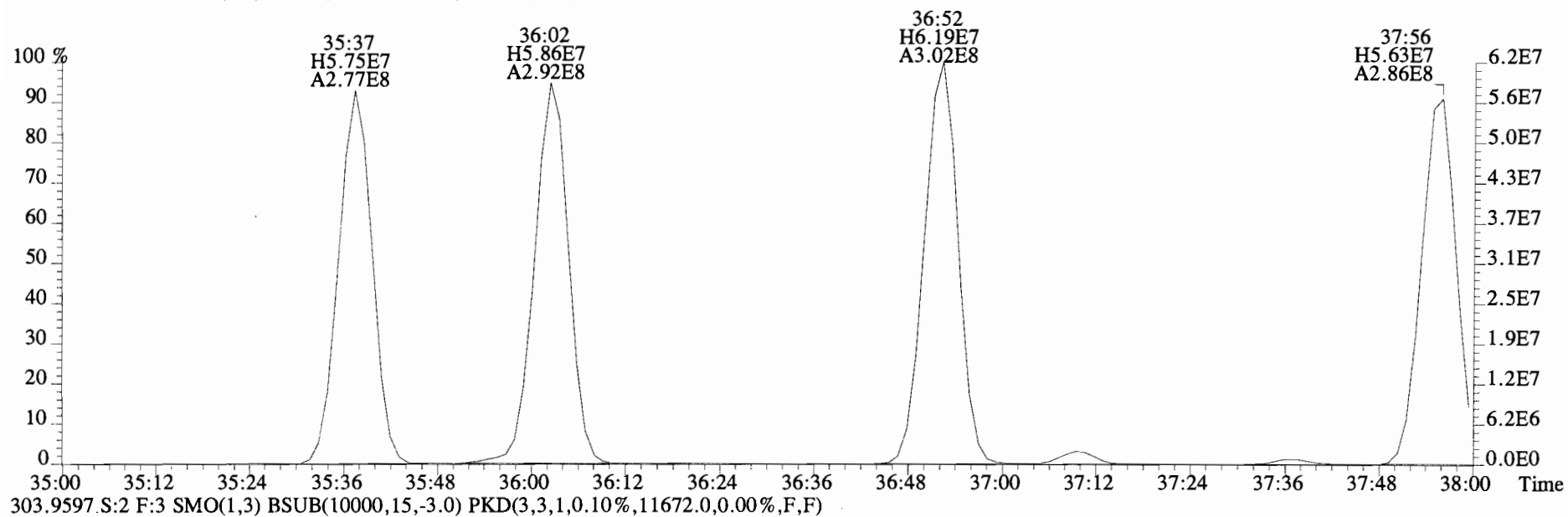
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11672.0,0.00%,F,F)



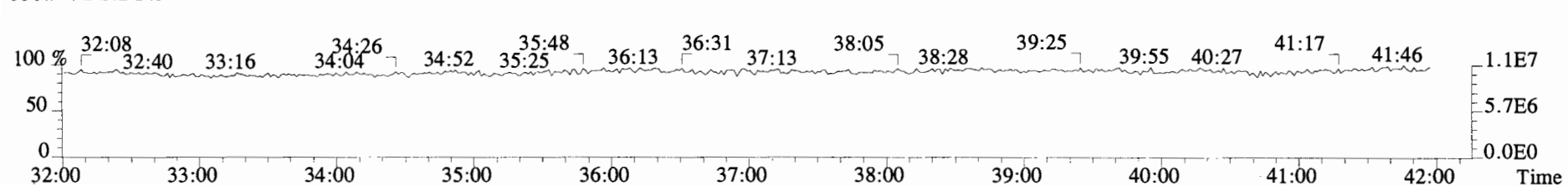
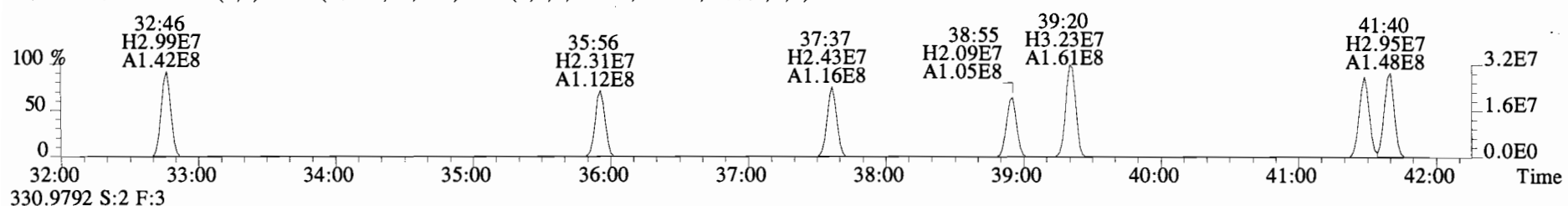
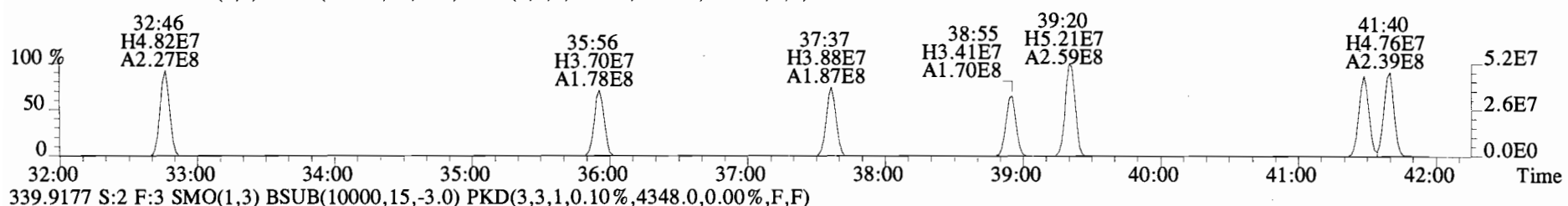
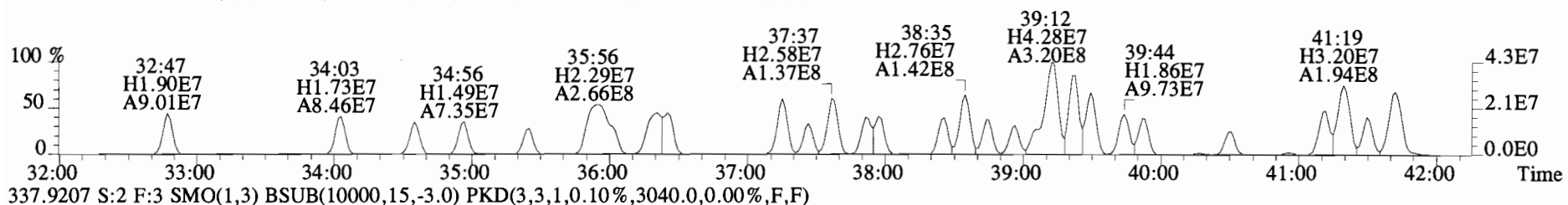
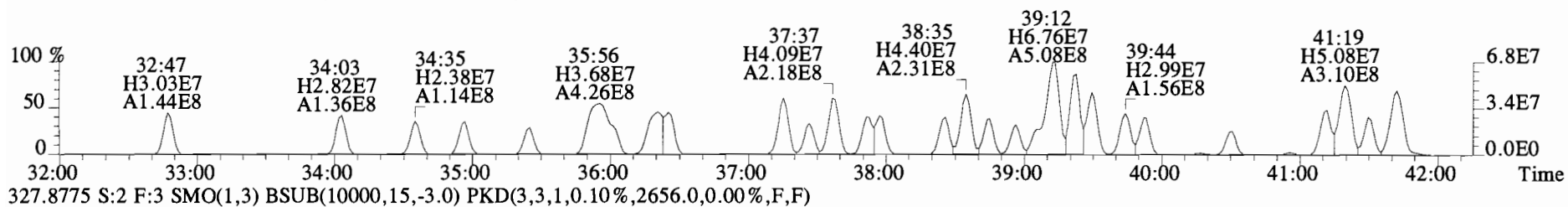
330.9792 S:2 F:3



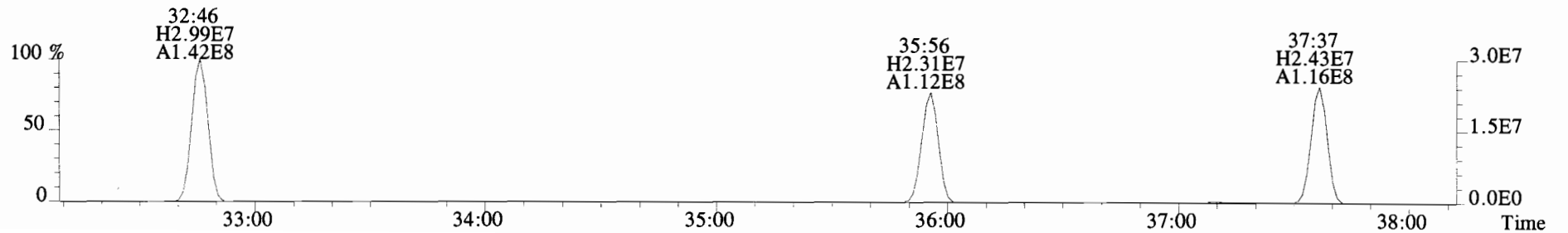
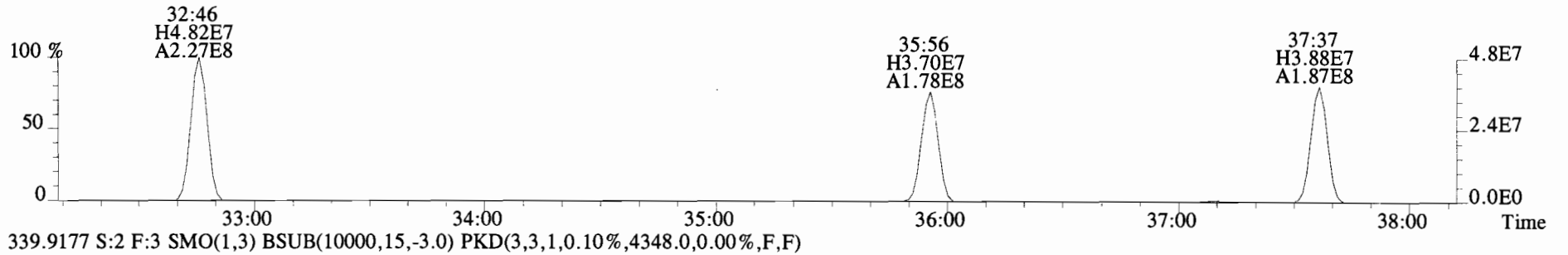
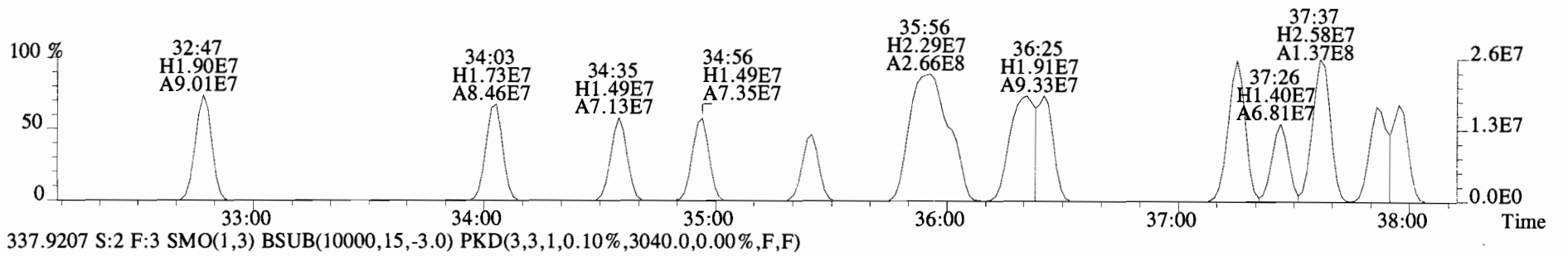
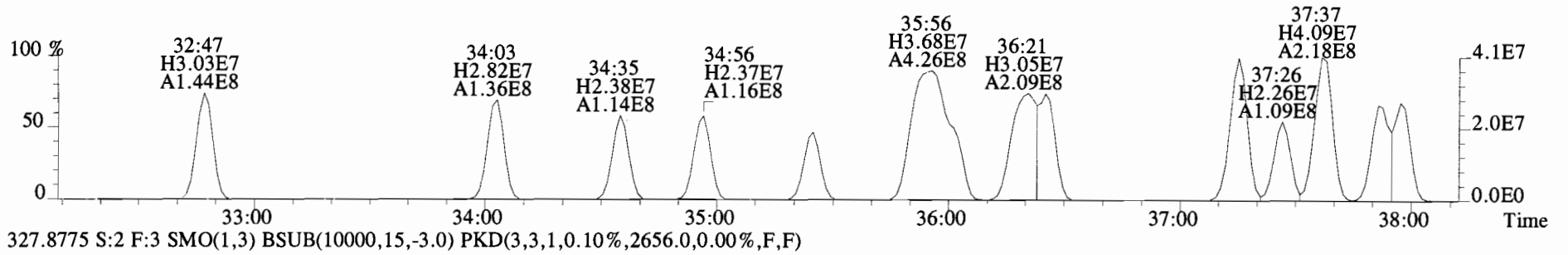
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BS1 OPR 2 Exp: PCB\_ZB1  
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16084.0,0.00%,F,F)



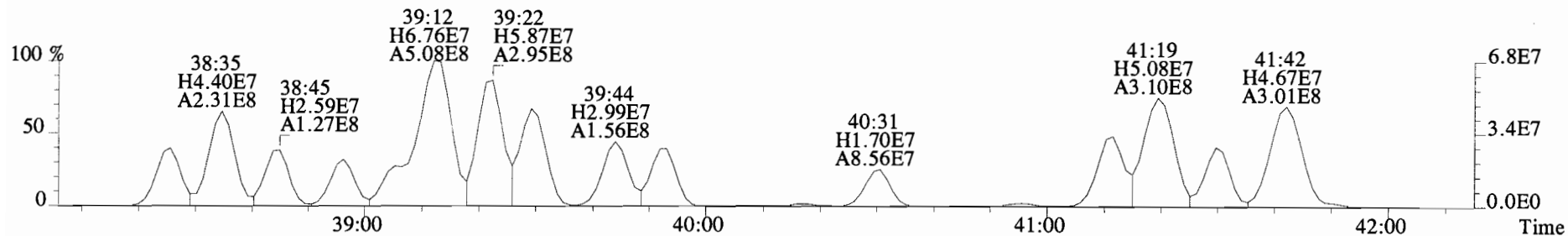
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)



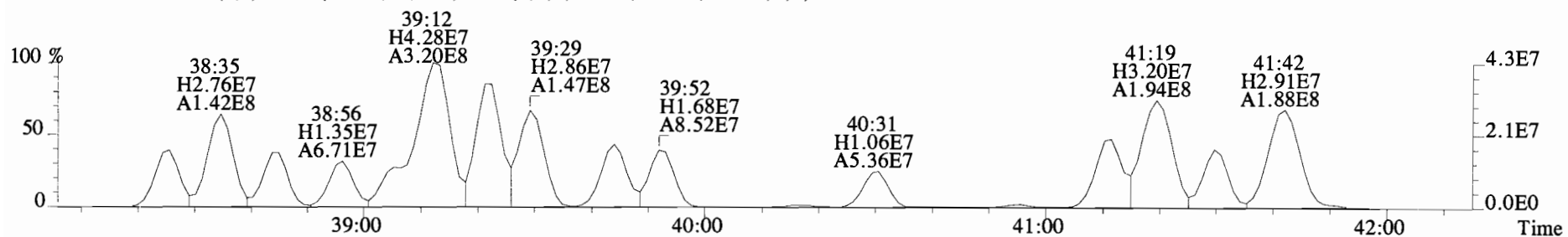
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)



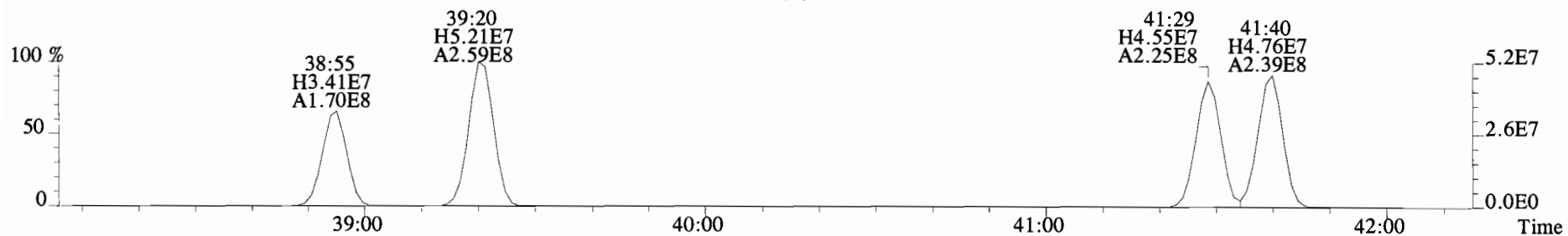
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)



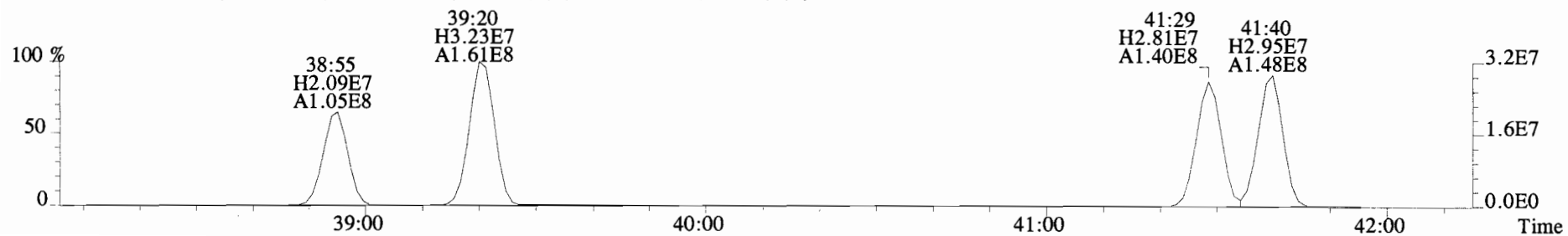
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2656.0,0.00%,F,F)



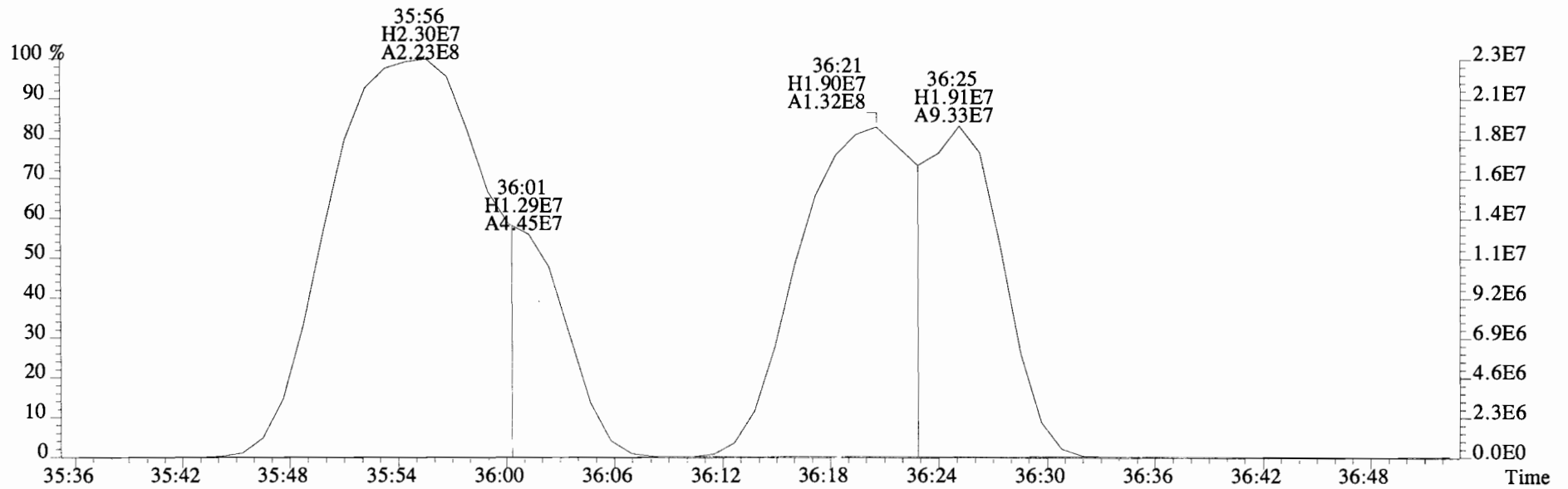
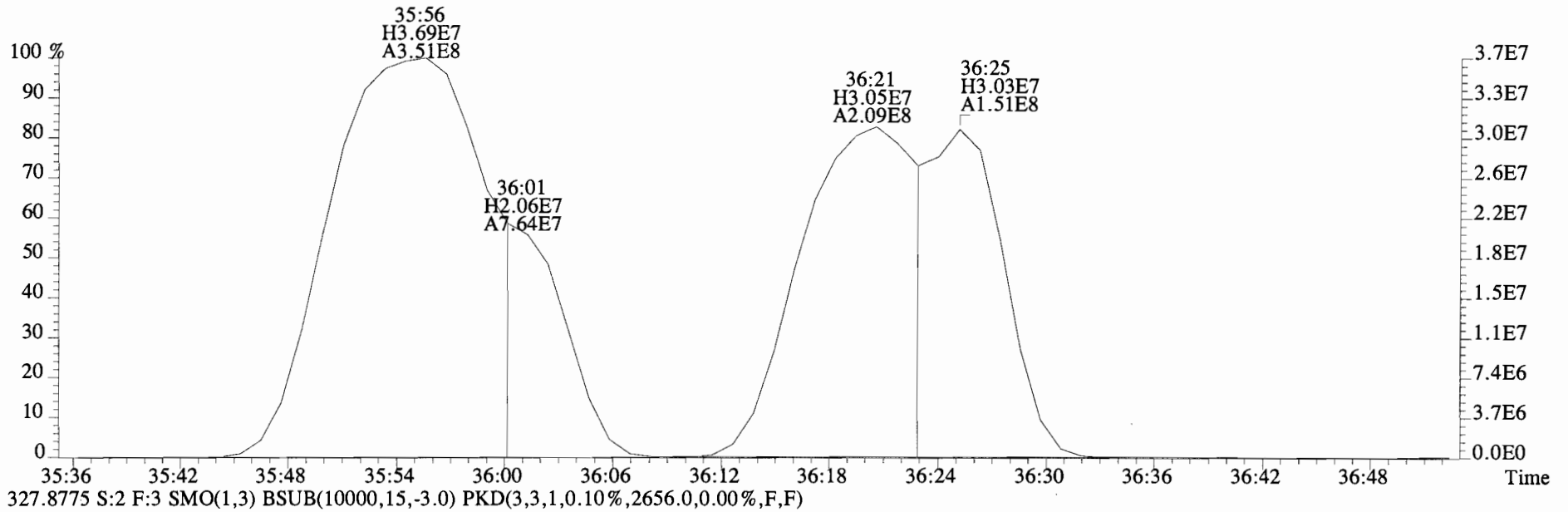
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3040.0,0.00%,F,F)



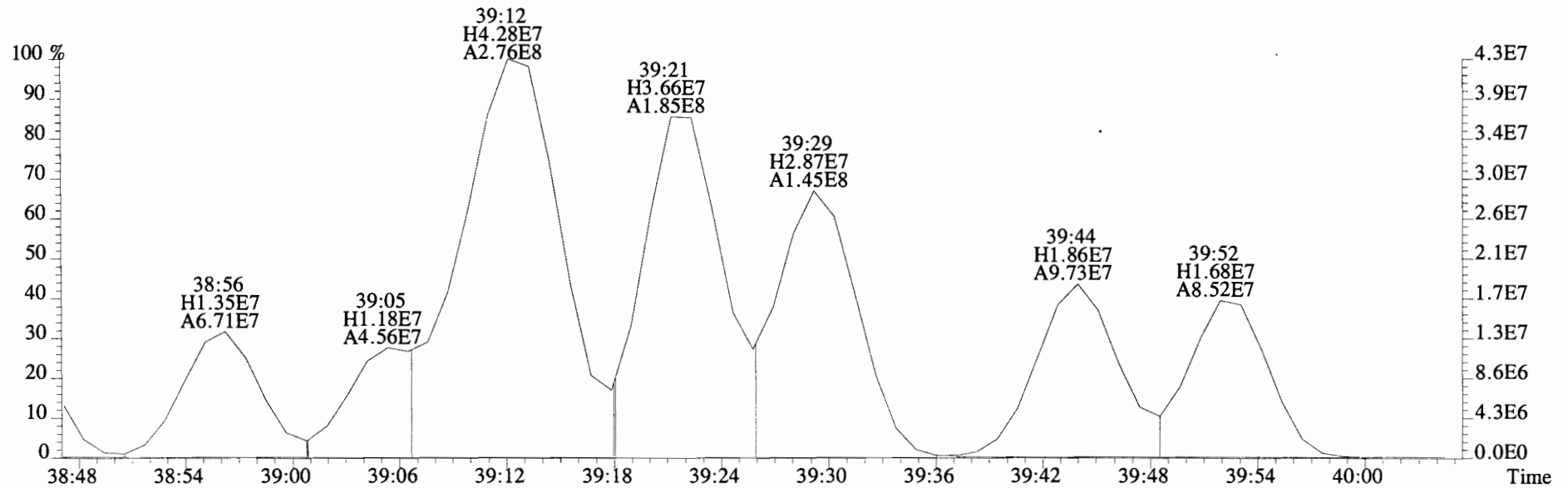
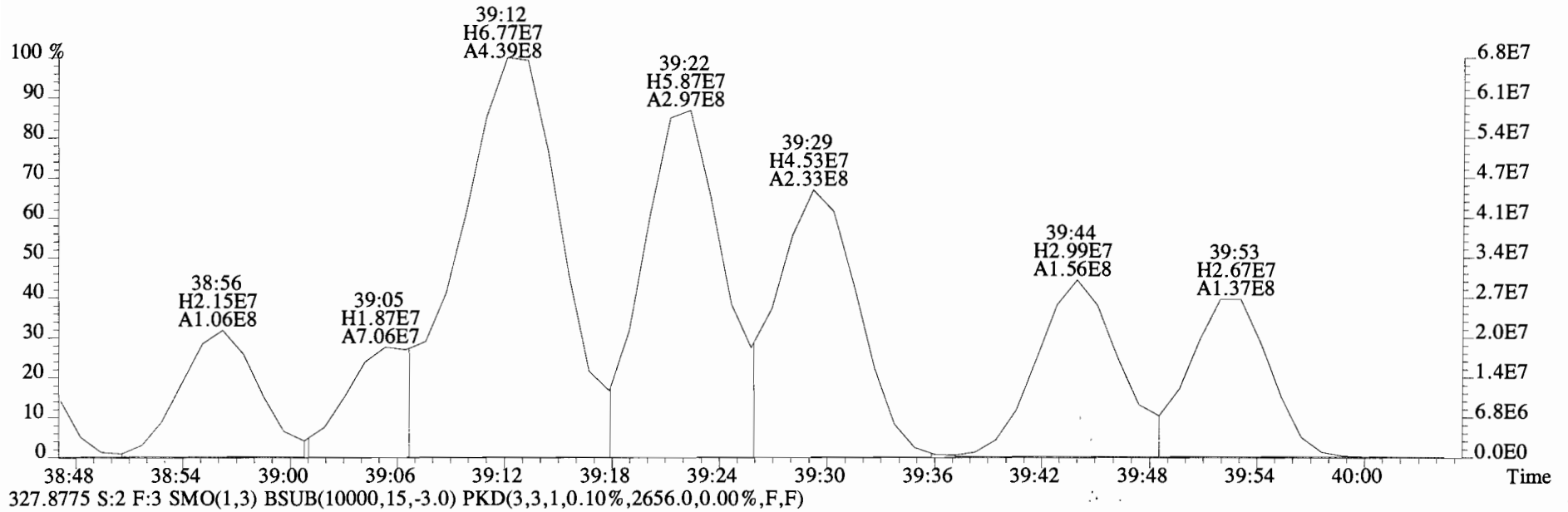
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4348.0,0.00%,F,F)



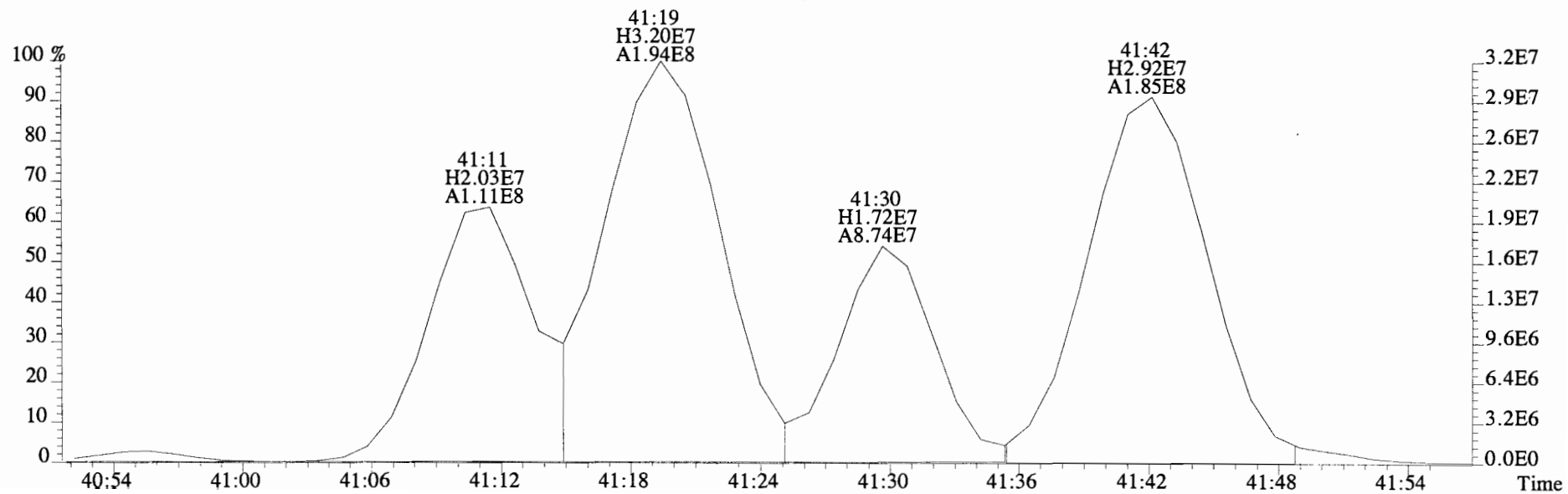
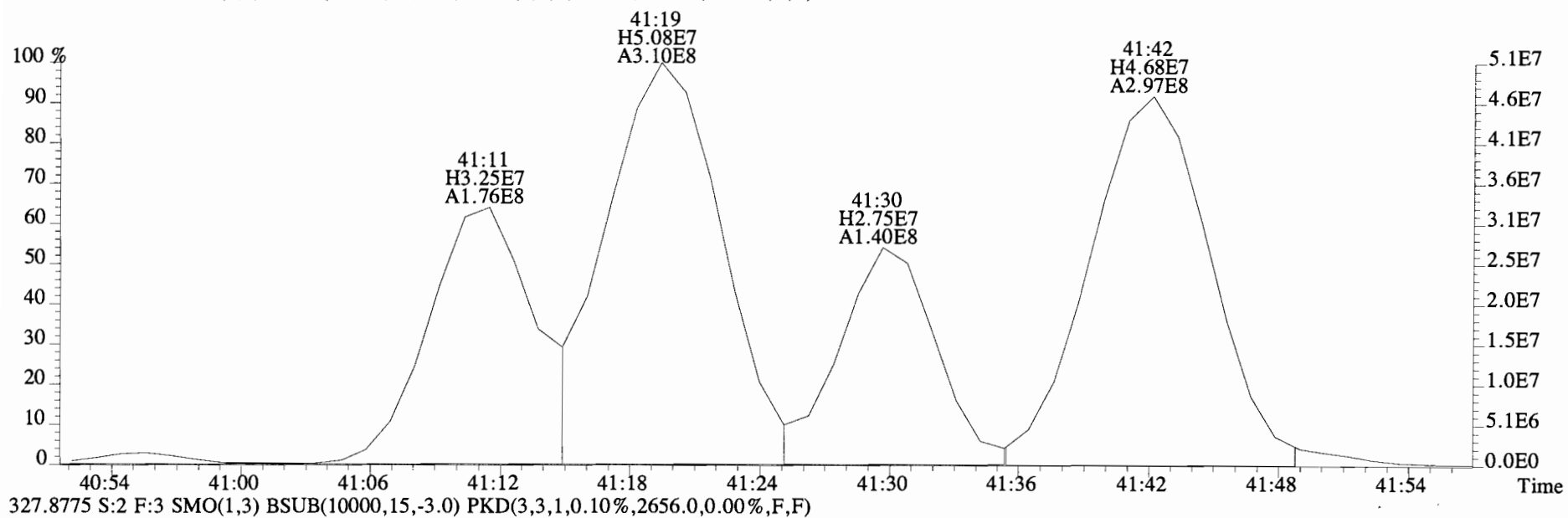
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BS1 OPR 2 Exp: PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)



File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)

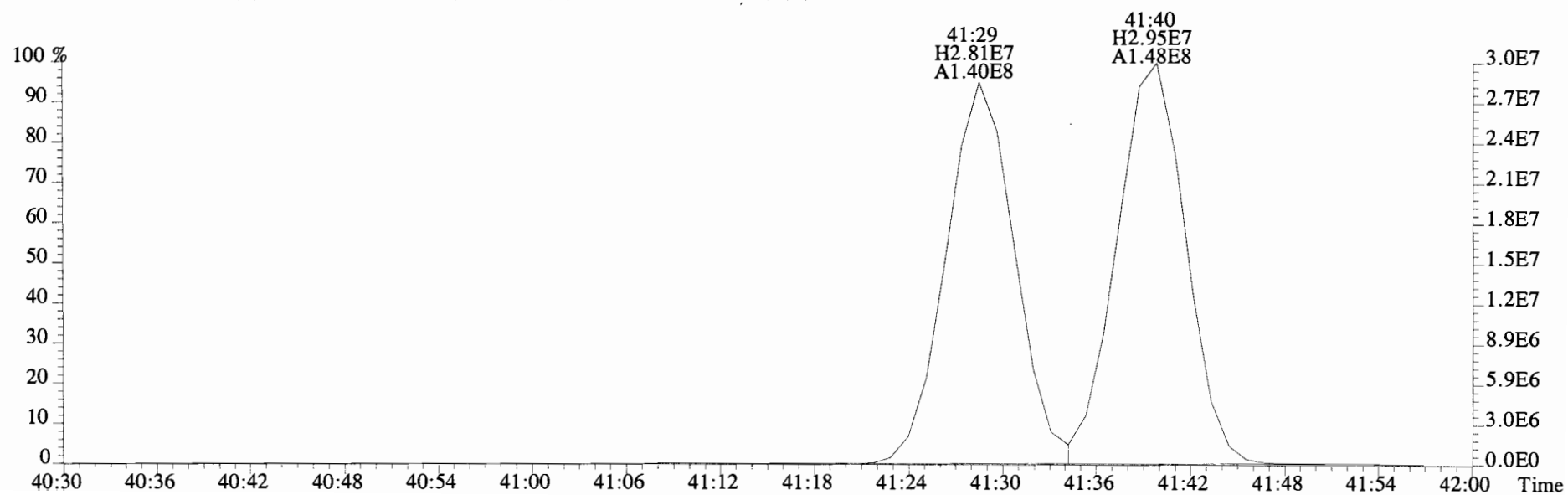
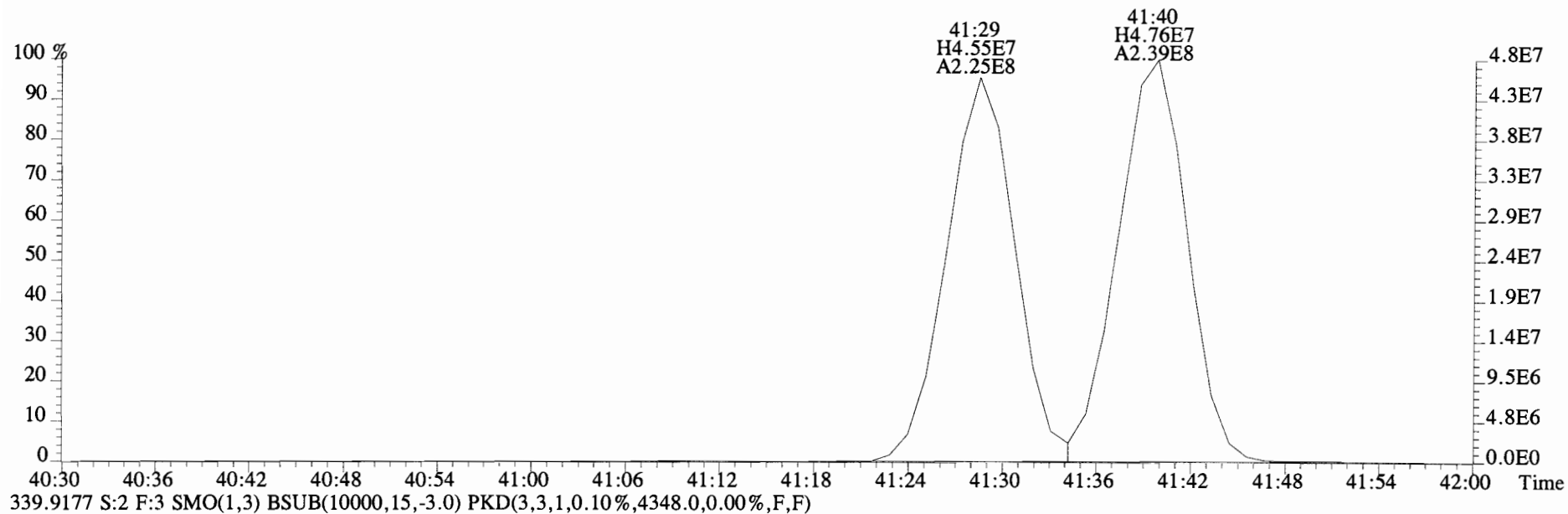


File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BS1 OPR 2 Exp: PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4040.0,0.00%,F,F)

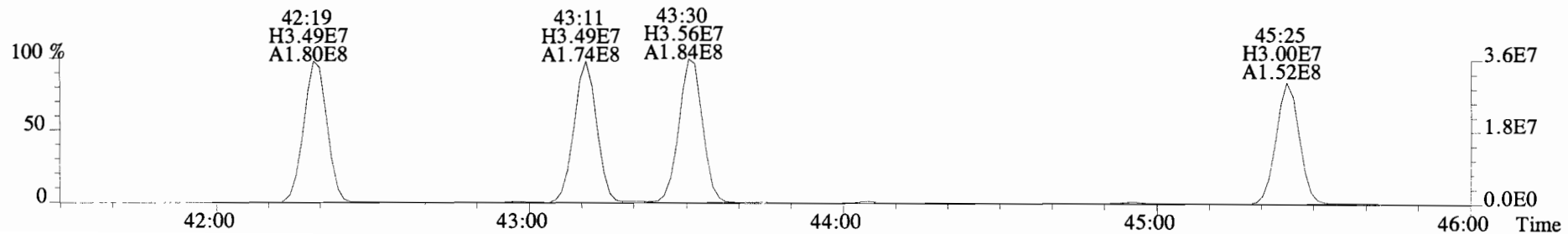
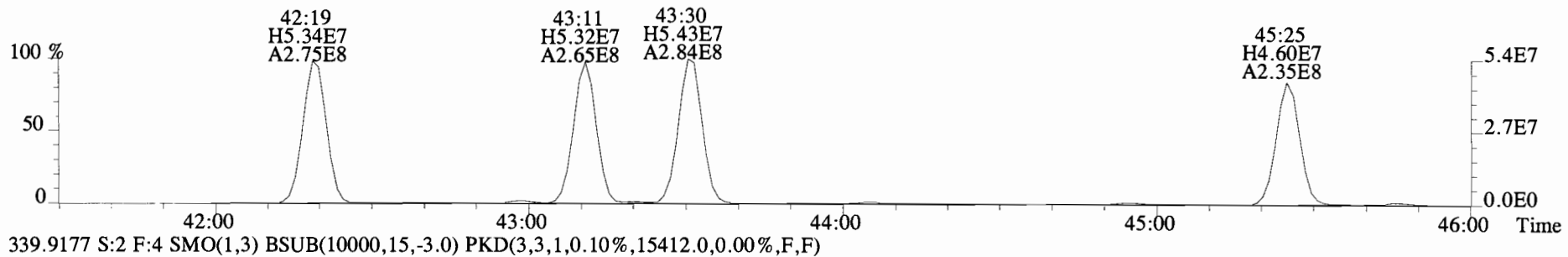
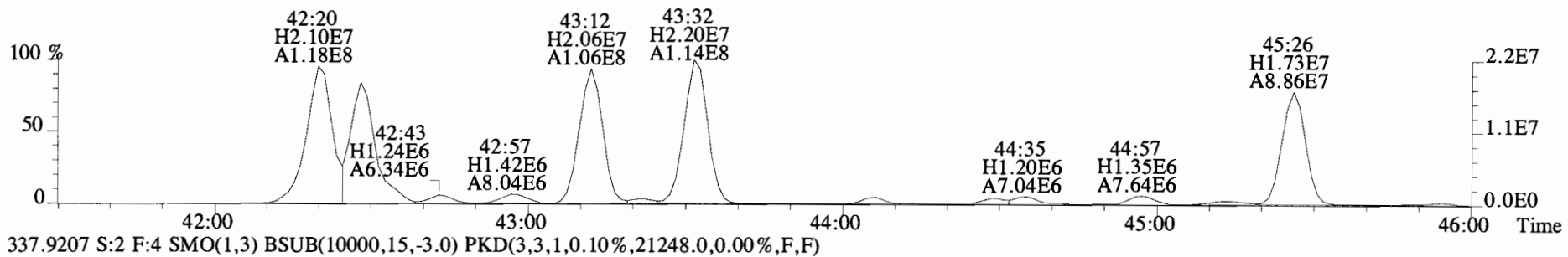
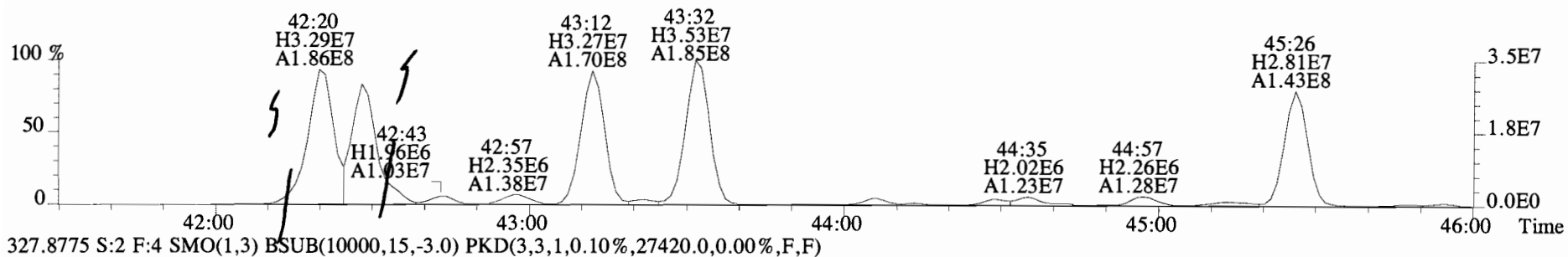




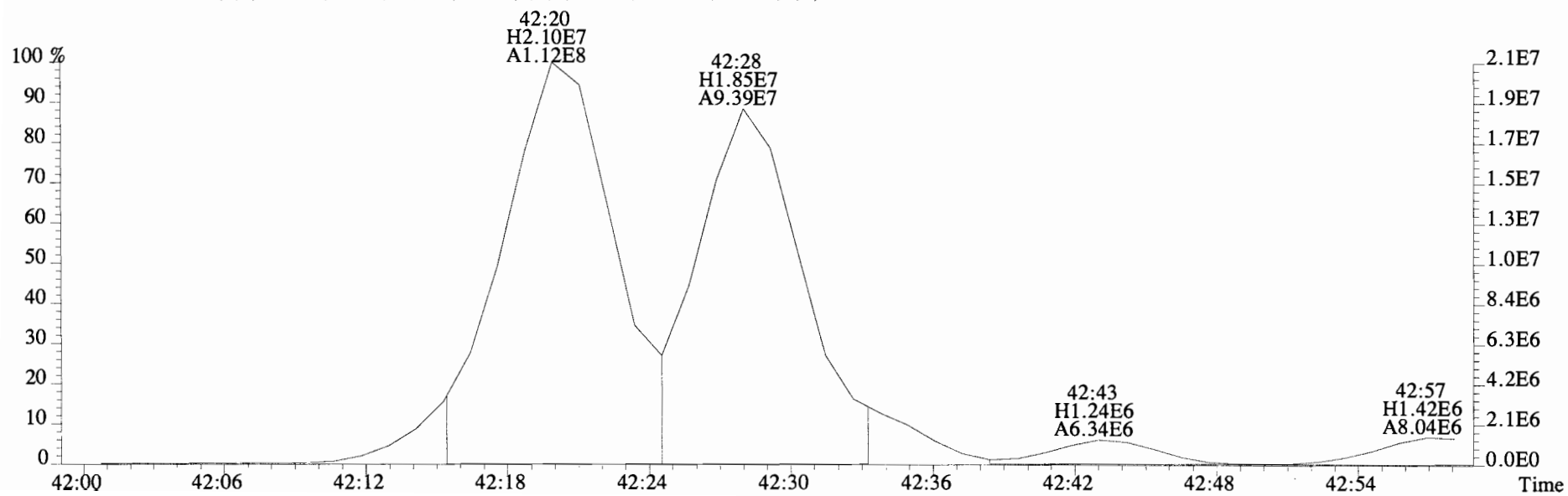
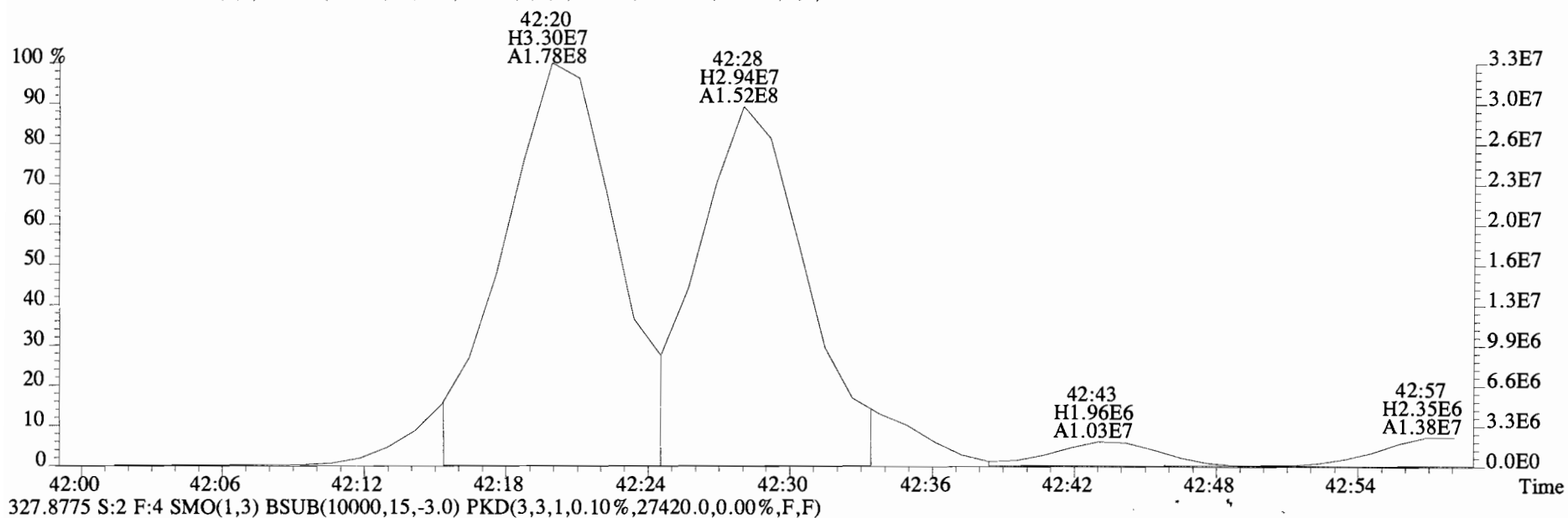
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BS1 OPR 2 Exp: PCB\_ZB1  
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3040.0,0.00%,F,F)



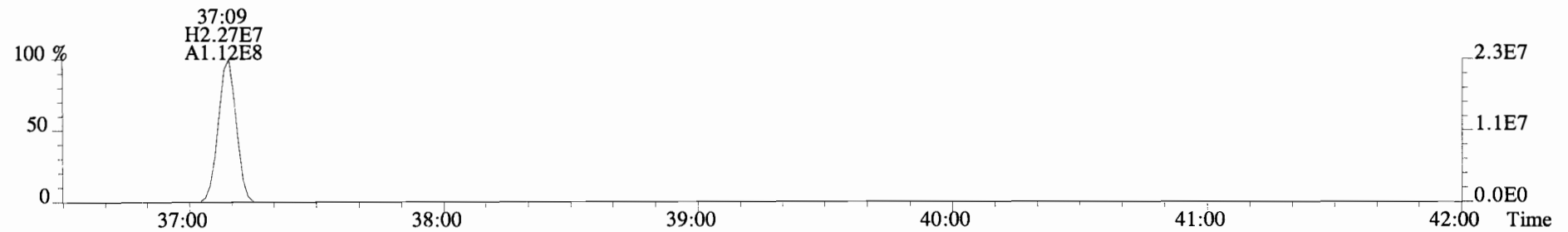
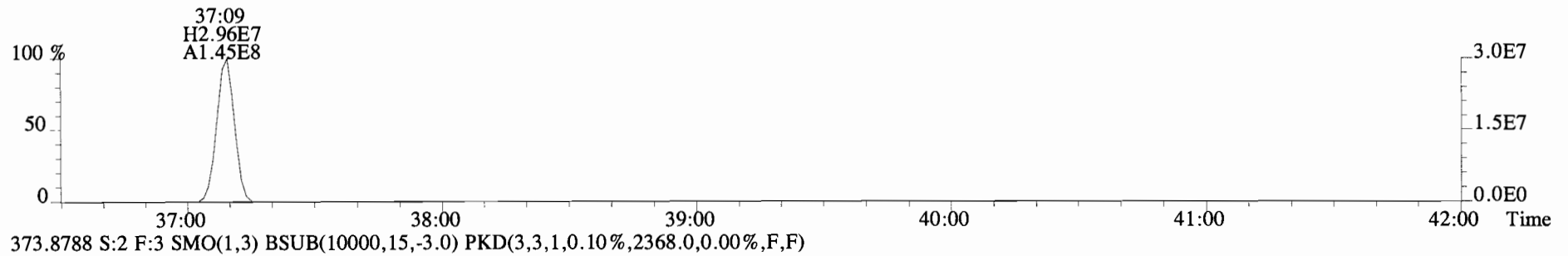
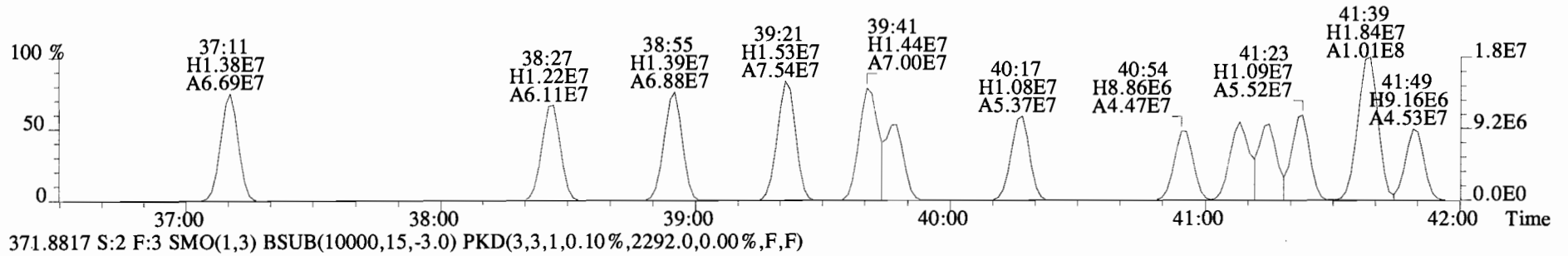
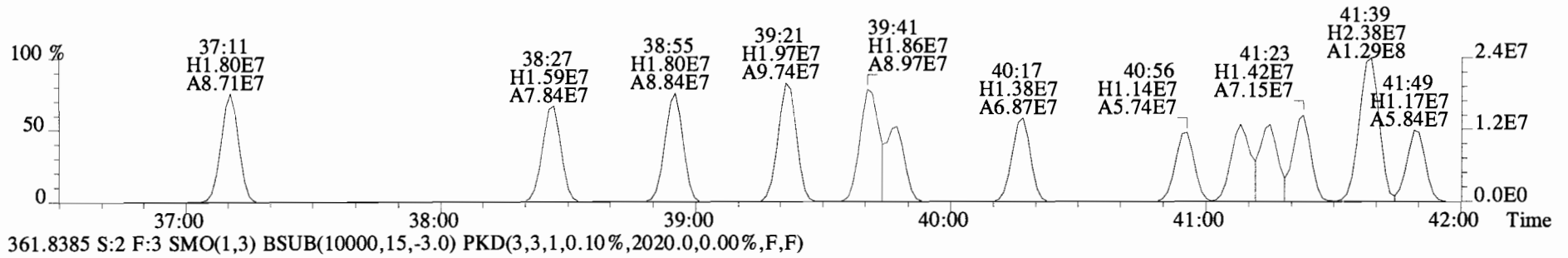
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4I0107-BS1 OPR 2 Exp: PCB\_ZB1  
 325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26452.0,0.00%,F,F)



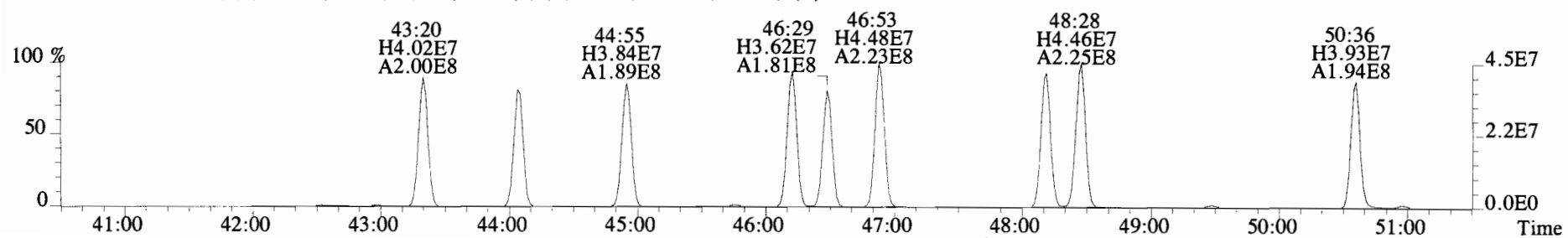
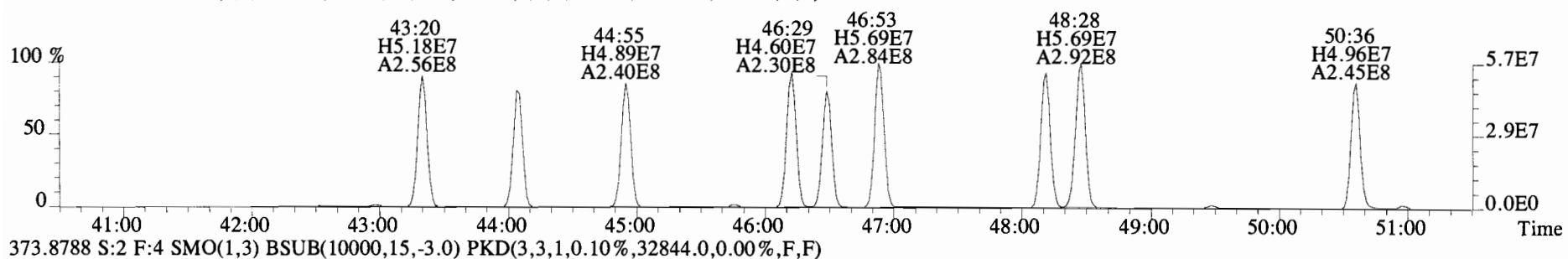
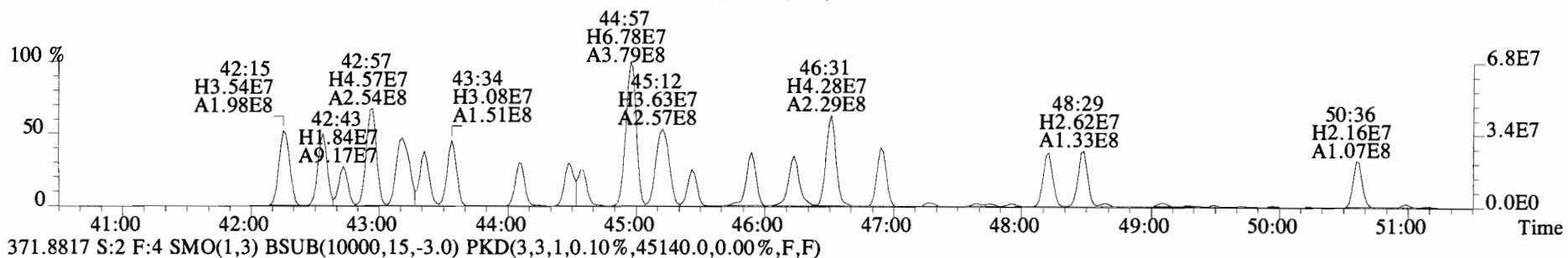
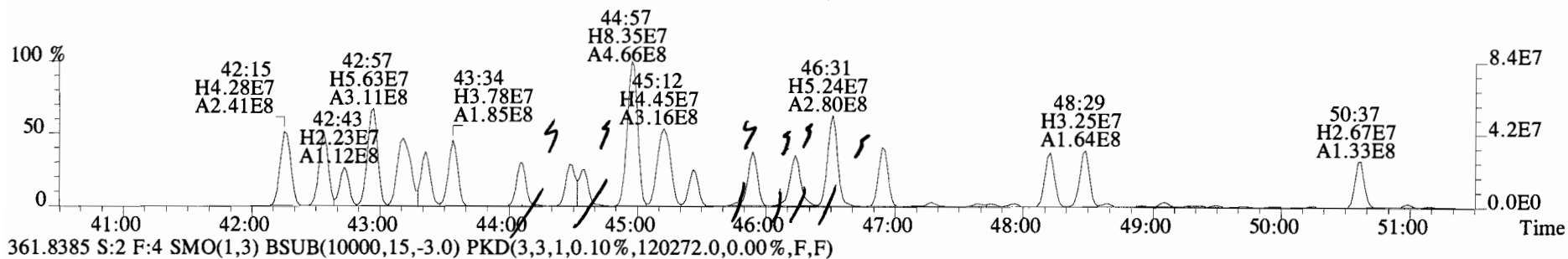
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BS1 OPR 2 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26452.0,0.00%,F,F)



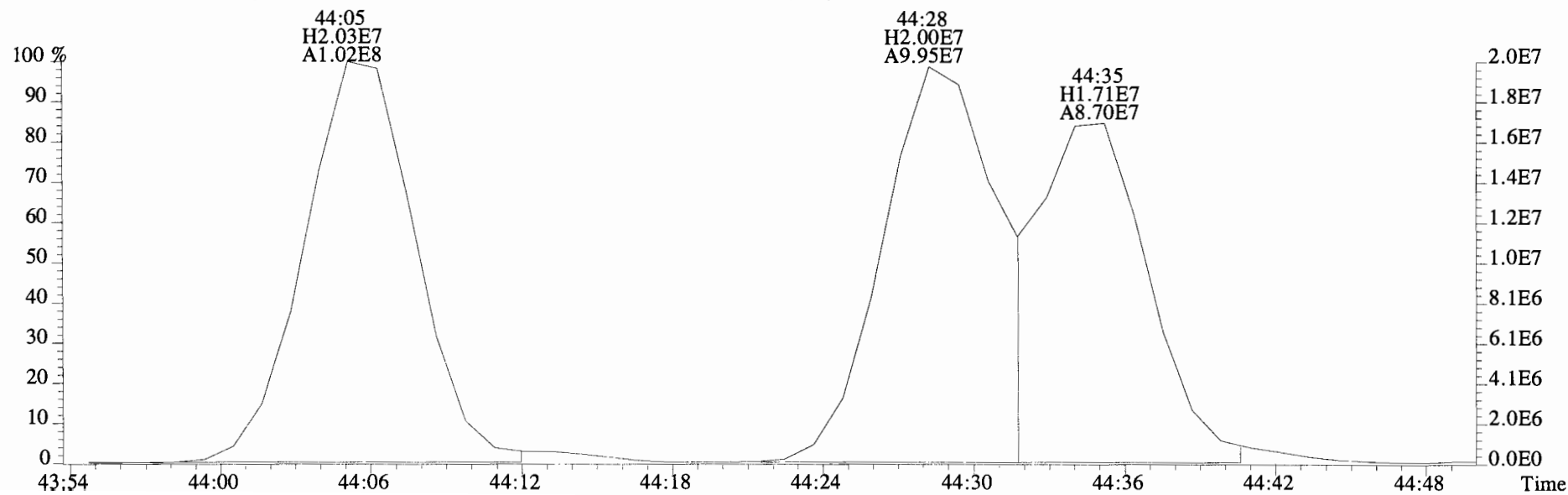
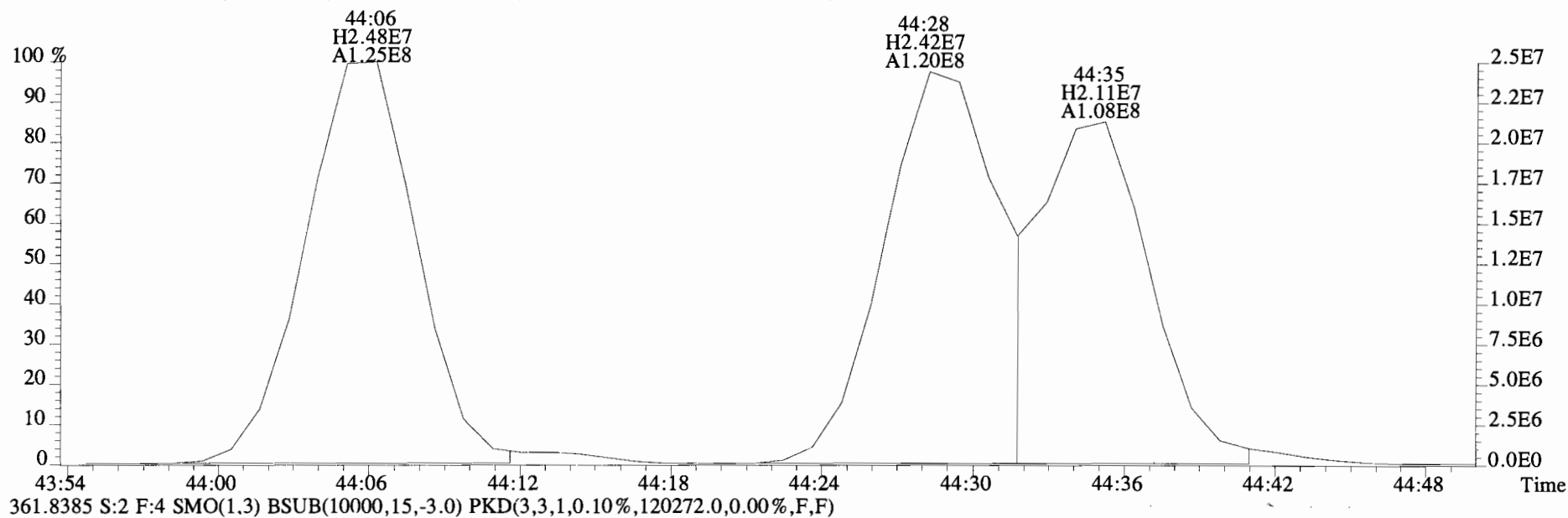
File:141002E1 #1-762 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



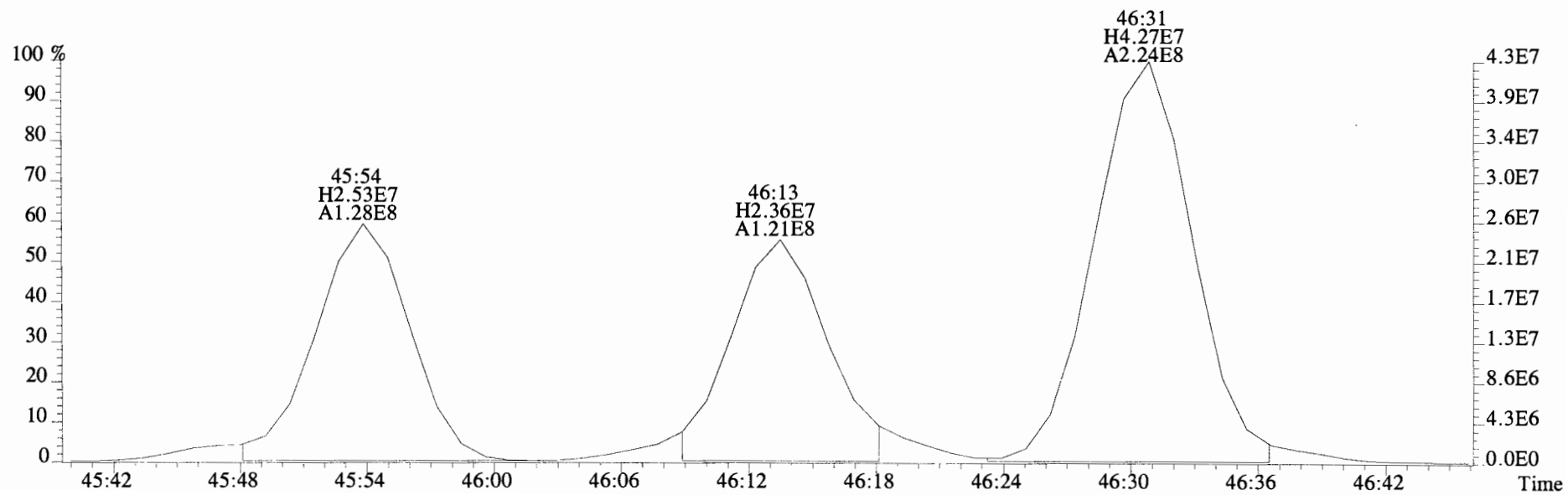
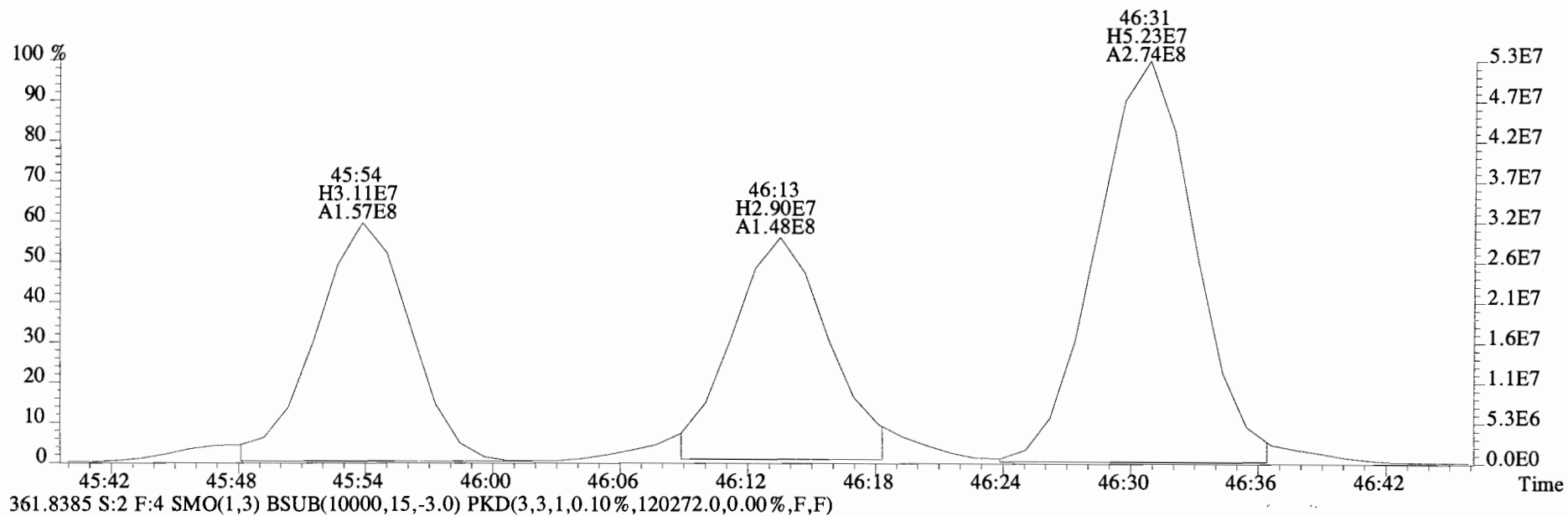
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,144804.0,0.00%,F,F)



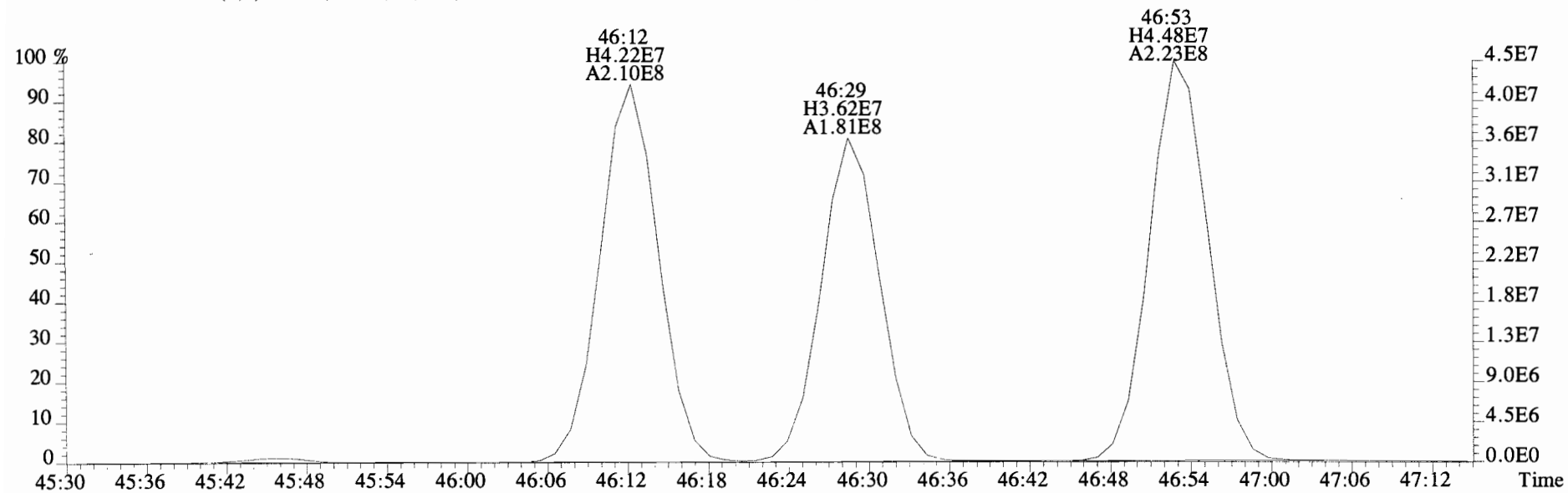
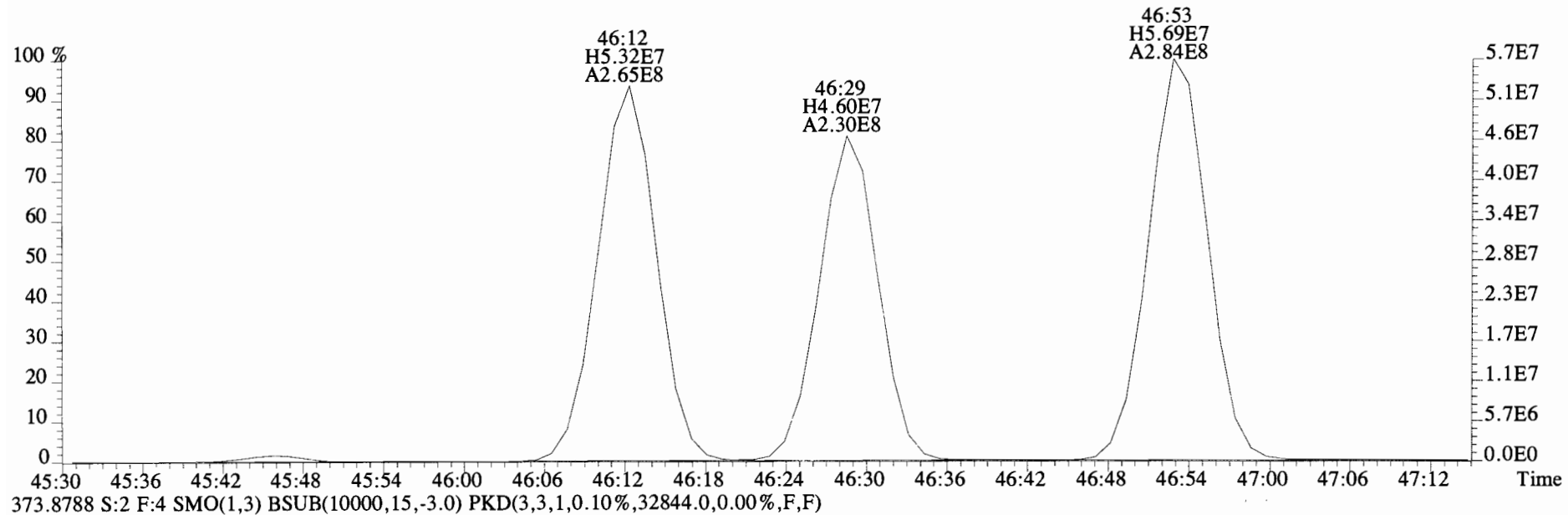
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,144804.0,0.00%,F,F)



File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B410107-BS1 OPR 2 Exp: PCB ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,144804.0,0.00%,F,F)

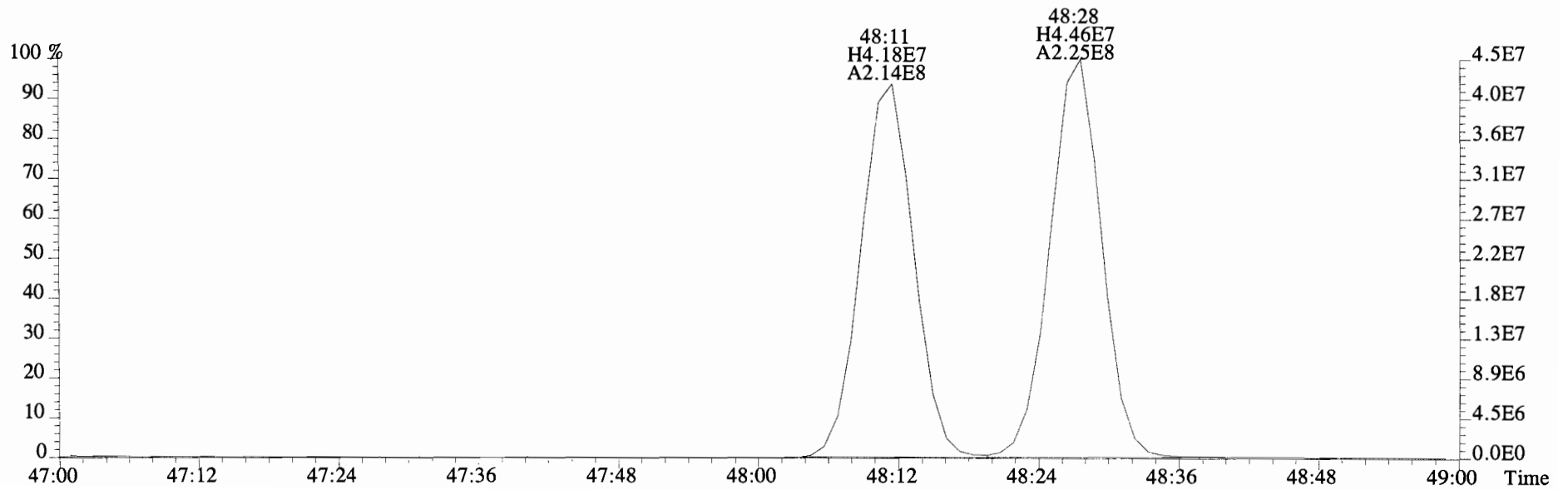
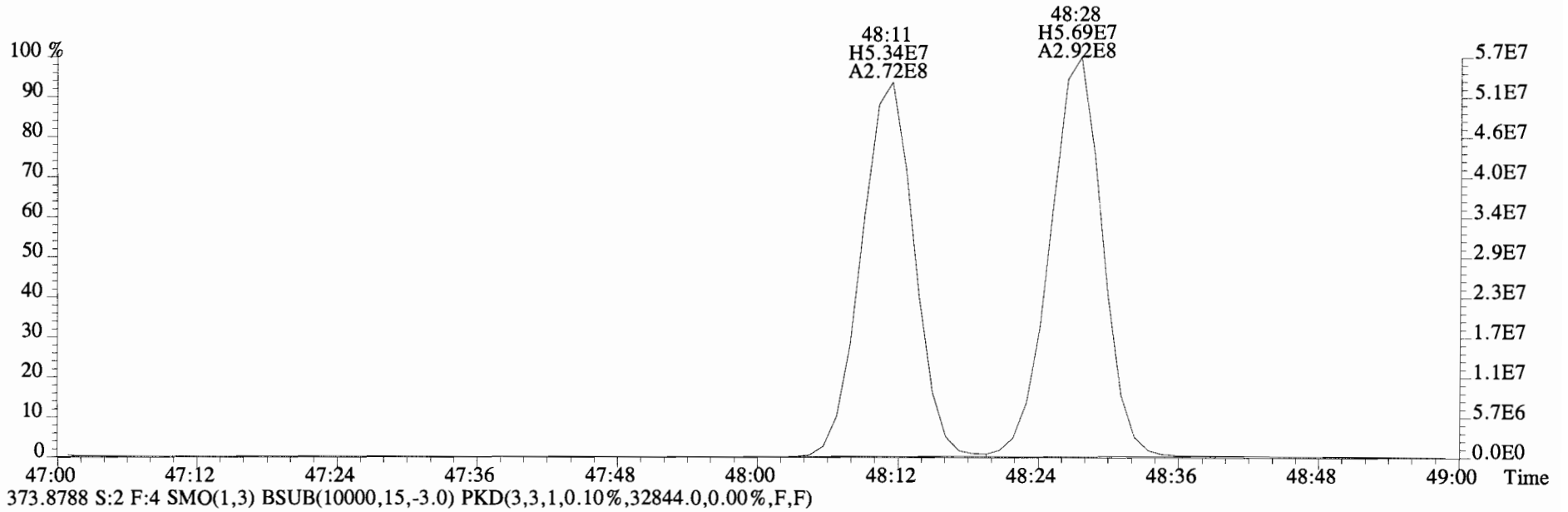


File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45140.0,0.00%,F,F)

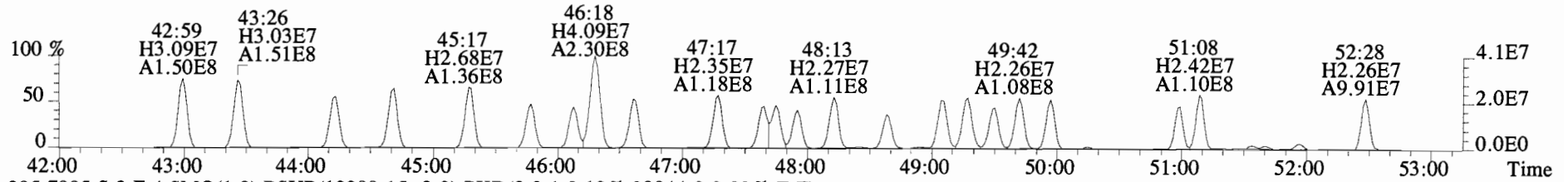




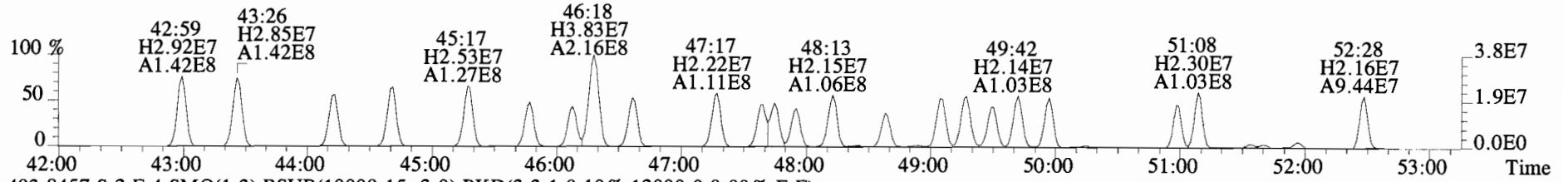
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45140.0,0.00%,F,F)



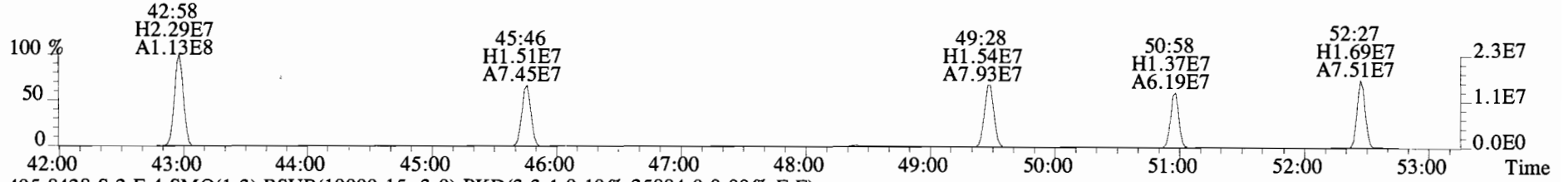
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,39700.0,0.00%,F,F)



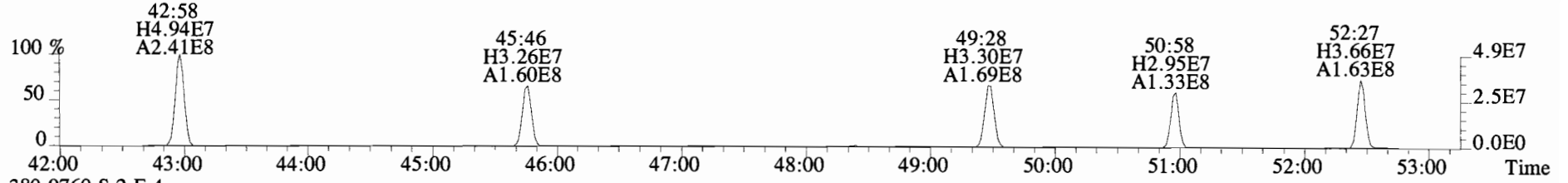
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,39944.0,0.00%,F,F)



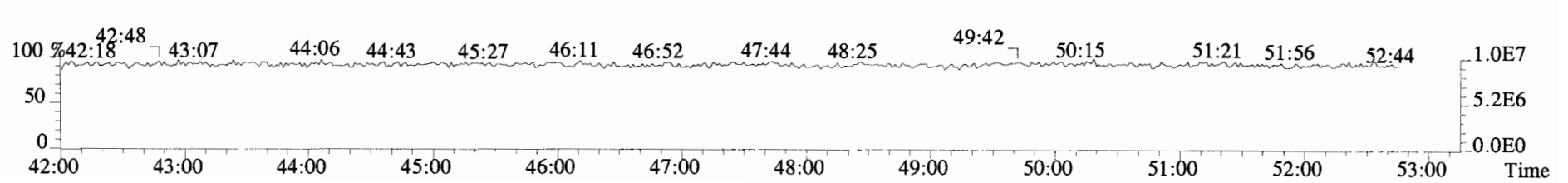
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12000.0,0.00%,F,F)



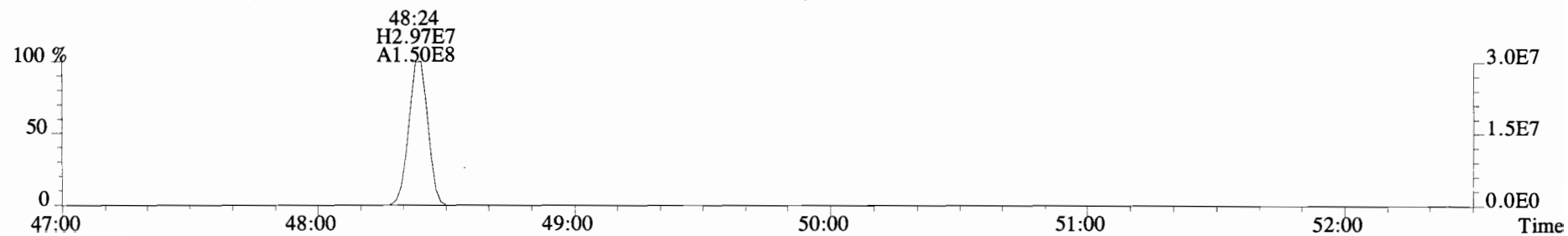
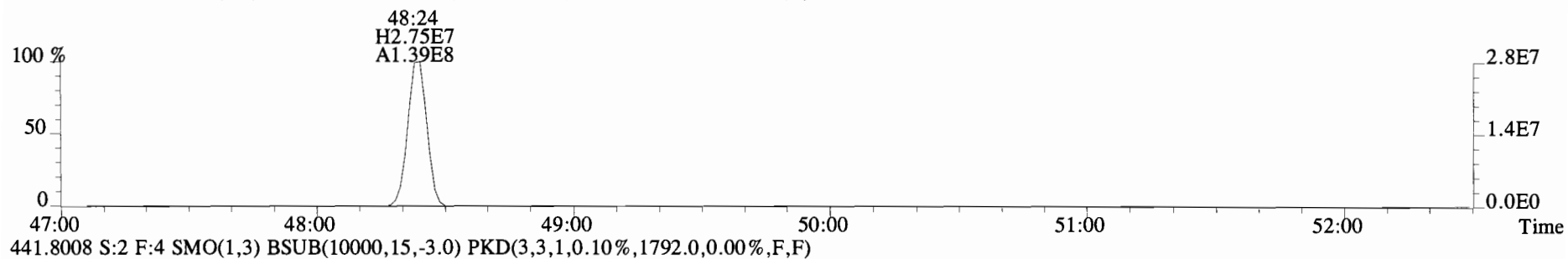
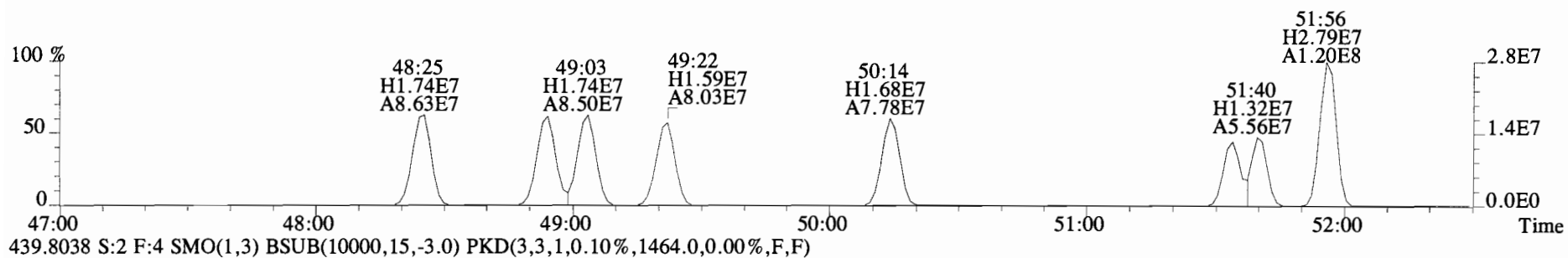
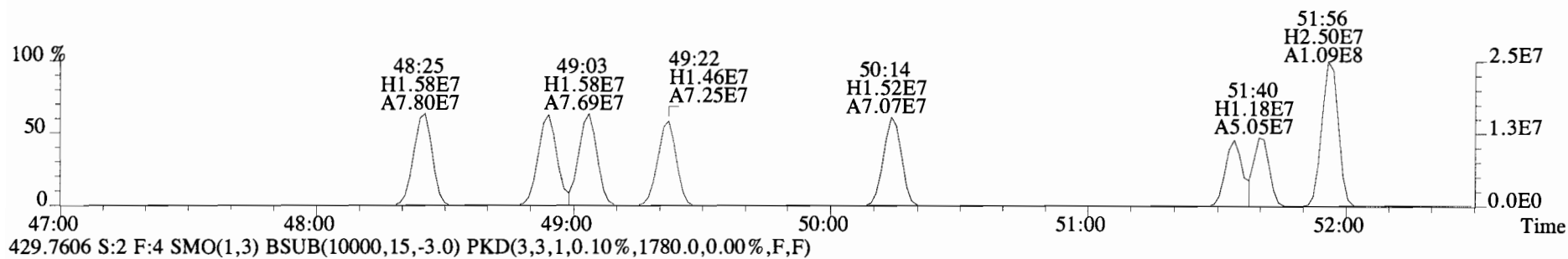
405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25884.0,0.00%,F,F)



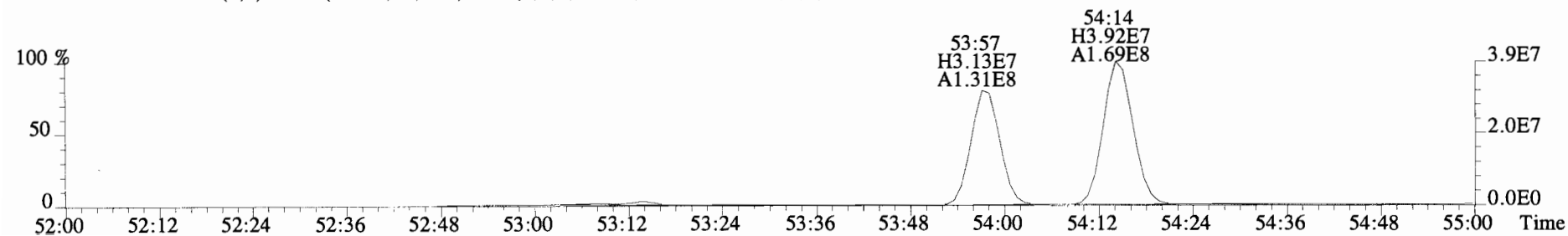
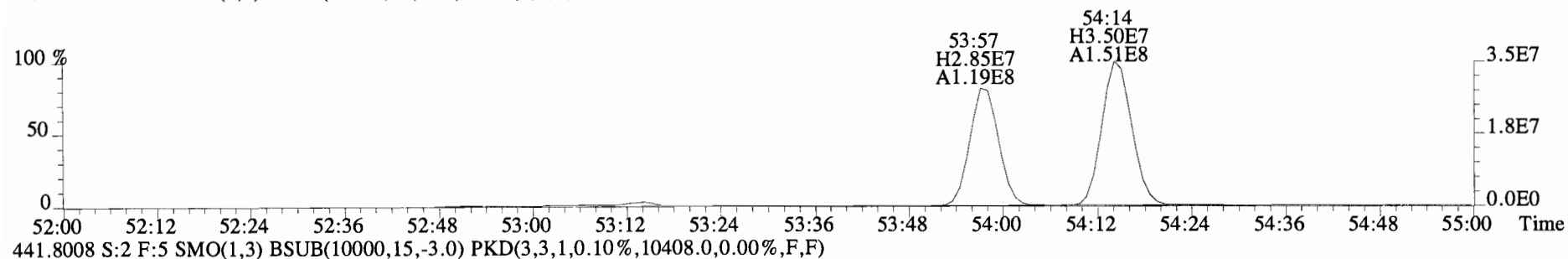
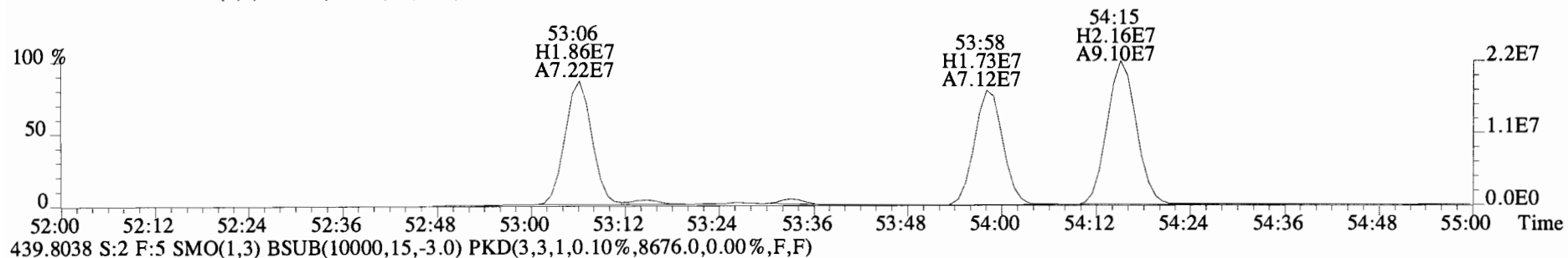
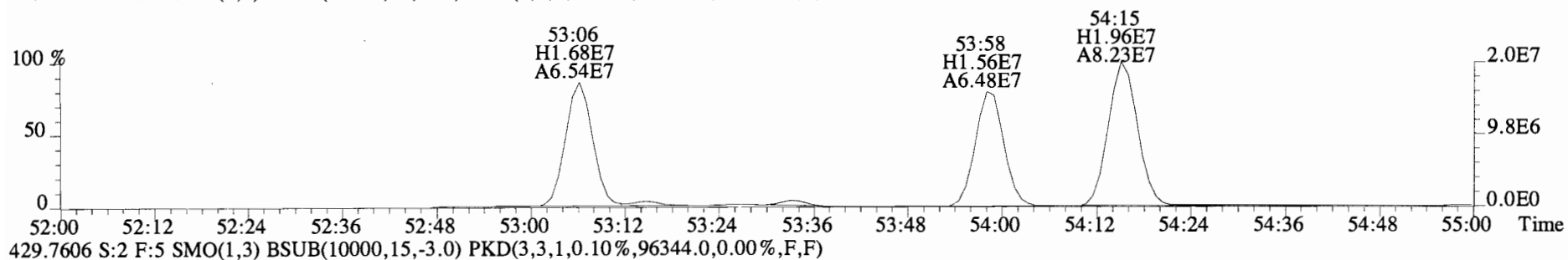
380.9760 S:2 F:4



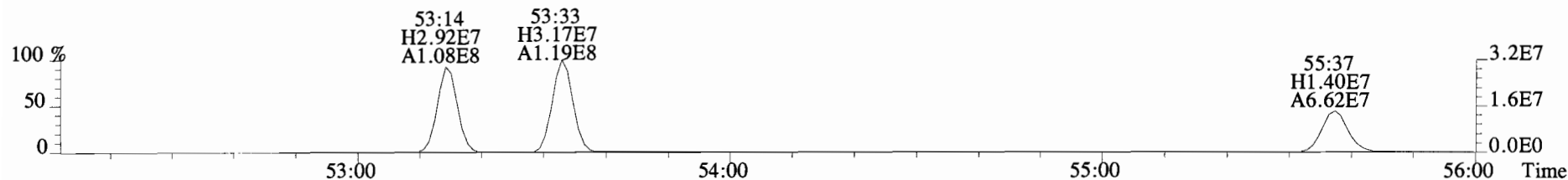
File:141002E1 #1-560 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B410107-BS1 OPR 2 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



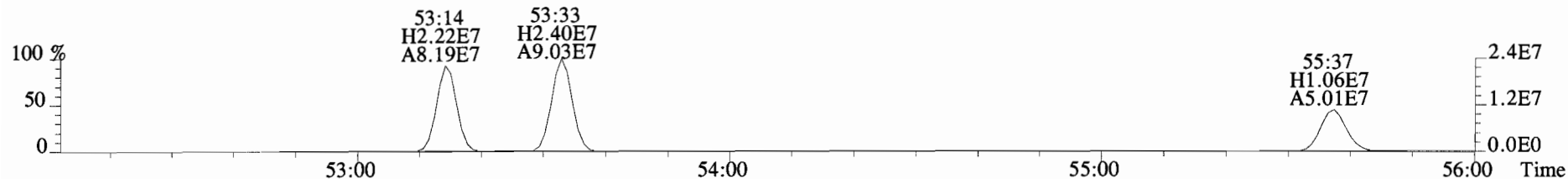
File:141002E1 #1-418 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,91104.0,0.00%,F,F)



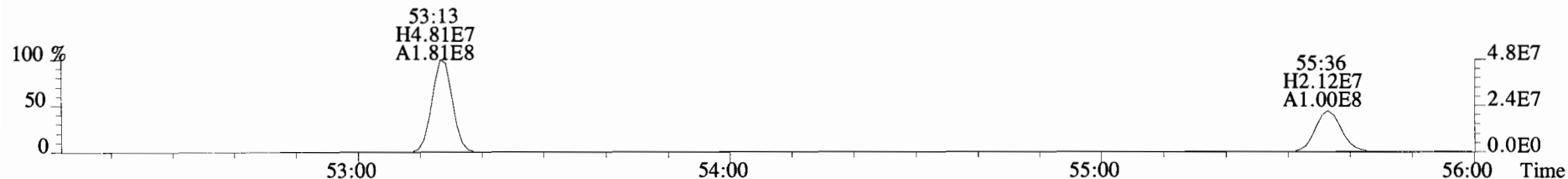
File:141002E1 #1-418 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 Exp:PCB\_ZB1  
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,47692.0,0.00%,F,F)



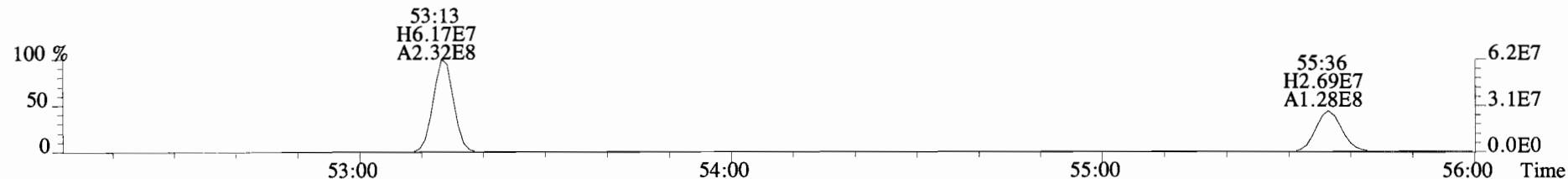
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35604.0,0.00%,F,F)



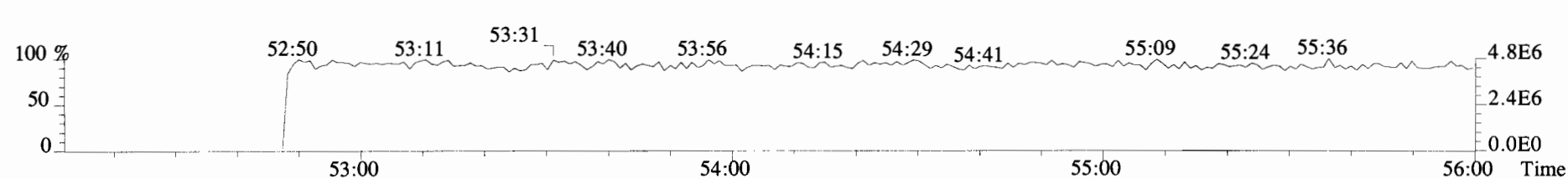
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64052.0,0.00%,F,F)



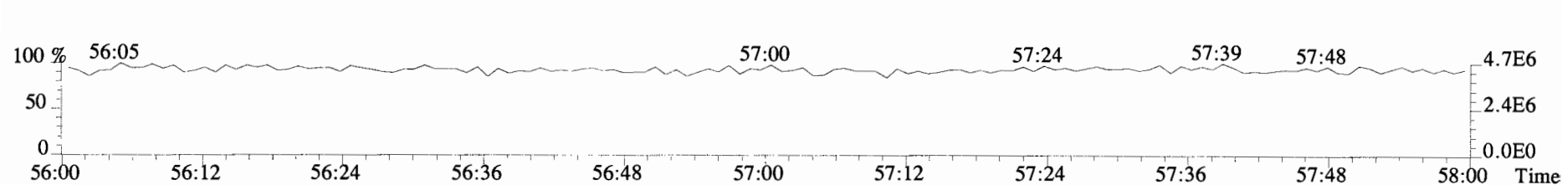
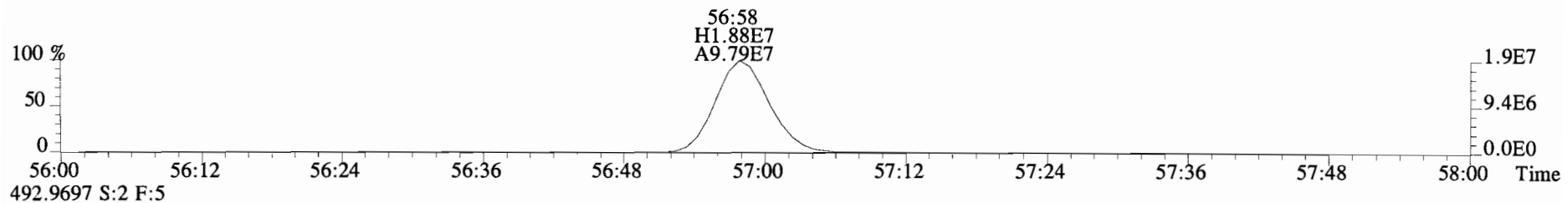
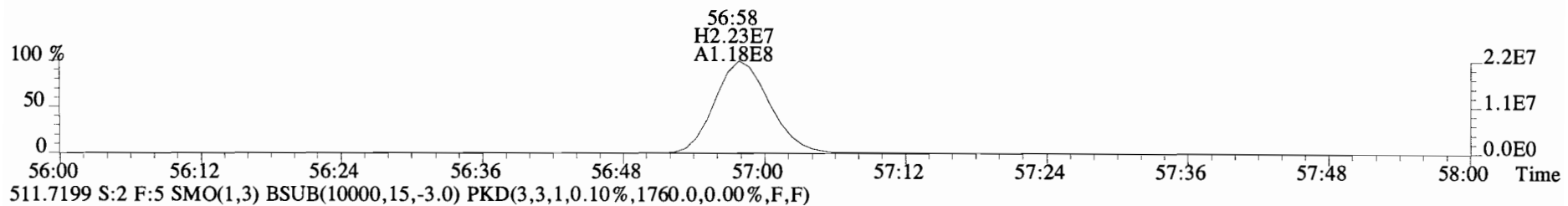
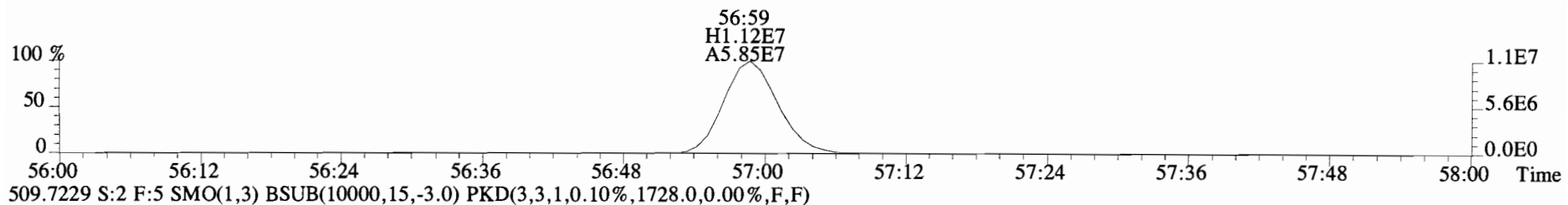
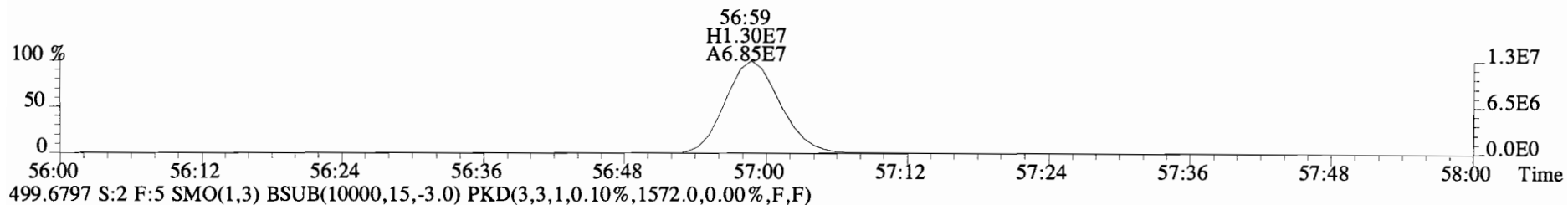
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,80440.0,0.00%,F,F)



492.9697 S:2 F:5



File:141002E1 #1-418 Acq: 2-OCT-2014 11:03:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4I0107-BS1 OPR 2 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)



Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	1.03e+05	2.93	y 16:13	1.19	325		*	2.5	*	1.000	0.996-1.006	
Mono	PCB-2	*	*	n NotFη	1.18	*		4200	2.5	489	*	0.984-0.994	
Mono	PCB-3	1.10e+05	3.39	y 18:51	1.43	284		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	2.79e+05	1.24	n 20:11	1.57	997	R	*	2.5	*	1.001	0.997-1.007	
Di	PCB-7/9	*	*	n NotFη	1.21	*		10300	2.5	769	*	0.866-0.874	
Di	PCB-6	3.00e+05	1.36	y 22:39	1.30	852		*	2.5	*	0.894	0.890-0.899	
Di	PCB-5/8	1.36e+06	1.41	y 23:02	1.15	4400		*	2.5	*	0.909	0.907-0.917	
Di	PCB-14	*	*	n NotFη	1.11	*		10300	2.5	1970	*	0.949-0.959	
Di	PCB-11	9.79e+05	1.36	y 25:21	1.09	3160		*	2.5	*	1.001	0.995-1.005	
Di	PCB-12/13	*	*	n NotFη	1.19	*		10300	2.5	1830	*	1.011-1.021	
Di	PCB-15	9.02e+05	1.72	y 26:04	1.28	2470		*	2.5	*	1.029	1.023-1.033	
Tri	PCB-19	1.22e+05	1.29	n 24:20	1.04	796	R	*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotFη	1.71	*		1900	2.5	164	*	1.032-1.042	
Tri	PCB-18	1.21e+06	1.09	y 25:58	0.78	6890		*	2.5	*	0.953	0.949-0.959	
Tri	PCB-17	4.80e+05	1.16	y 26:09	0.92	2310		*	2.5	*	0.960	0.956-0.966	
Tri	PCB-24/27	1.41e+05	0.95	y 26:42	1.19	528		*	2.5	*	0.980	0.977-0.987	
Tri	PCB-16/32	9.59e+05	1.18	y 27:13	0.94	4530		*	2.5	*	0.999	0.995-1.005	
Tri	PCB-34	*	*	n NotFη	1.14	*		1780	2.5	253	*	0.955-0.965	
Tri	PCB-23	*	*	n NotFη	1.28	*		1780	2.5	225	*	0.959-0.969	
Tri	PCB-29	*	*	n NotFη	1.08	*		1780	2.5	266	*	0.967-0.977	
Tri	PCB-26	1.97e+05	1.05	y 28:36	1.21	1020		*	2.5	*	0.980	0.974-0.984	
Tri	PCB-25	1.05e+05	0.95	y 28:45	1.26	523		*	2.5	*	0.985	0.979-0.989	
Tri	PCB-31	8.09e+05	0.89	y 29:06	1.28	3960	R	*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	9.49e+05	0.88	y 29:12	1.71	3490		*	2.5	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	7.35e+05	1.00	y 29:50	1.08	4270		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	4.07e+05	0.93	y 30:16	1.21	2120		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotFη	1.14	*		1780	2.5	280	*	0.928-0.938	
Tri	PCB-39	*	*	n NotFη	1.12	*		1780	2.5	286	*	0.943-0.953	
Tri	PCB-38	*	*	n NotFη	1.20	*		1780	2.5	266	*	0.966-0.976	
Tri	PCB-35	*	*	n NotFη	1.23	*		1780	2.5	259	*	0.982-0.992	
Tri	PCB-37	4.80e+05	1.18	y 33:05	1.23	2240		*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-54	*	*	n NotFη	1.10	*		2140	2.5	241	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotFη	0.88	*		2140	2.5	301	*	1.037-1.047	
Tetra	PCB-53	1.40e+05	0.78	y 29:53	1.06	928		*	2.5	*	0.946	0.942-0.952	
Tetra	PCB-51	7.81e+04	0.67	y 30:14	0.99	555		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	1.45e+05	0.73	y 30:40	0.86	1180		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	6.59e+04	0.87	y 31:09	0.85	549		*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 10/3/14

Reviewed by: [Signature]

Date: 10/3/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.34e+06	0.72	y 31:37	1.28	7390	*	*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-73	*	*	n NotF $\eta$	1.35	*		2140	2.5	236	*	1.000-1.010	
Tetra	PCB-43/49	6.85e+05	0.70	y 31:55	0.99	4850	*	*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	2.44e+05	0.88	y 32:07	1.06	1560	*	*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-48/75	3.07e+05	0.74	y 32:15	1.23	1690	*	*	2.5	*	1.005	0.999-1.009	
Tetra	PCB-65	*	*	n NotF $\eta$	1.22	*		2140	2.5	247	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF $\eta$	1.22	*		2140	2.5	248	*	1.011-1.021	
Tetra	PCB-44	8.65e+05	0.82	y 32:55	0.86	6790	*	*	2.5	*	1.025	1.021-1.031	
Tetra	PCB-42/59	4.08e+05	0.66	y 33:09	1.14	2420	*	*	2.5	*	1.033	1.028-1.038	
Tetra	PCB-41/64/71/72	1.20e+06	0.74	y 33:44	1.21	6690	*	*	2.5	*	1.051	1.046-1.056	
Tetra	PCB-68	*	*	n NotF $\eta$	1.35	*		2140	2.5	224	*	1.054-1.064	
Tetra	PCB-40	2.02e+05	0.83	y 34:11	0.70	1950	*	*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF $\eta$	0.98	*		2140	2.5	250	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF $\eta$	1.11	*		2140	2.5	222	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF $\eta$	0.93	*		2140	2.5	265	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF $\eta$	0.95	*		2140	2.5	258	*	0.982-0.992	
Tetra	PCB-74	5.91e+05	0.81	y 35:26	1.24	2510	*	*	2.5	*	0.995	0.990-1.000	
Tetra	PCB-61/70	1.63e+06	0.78	y 35:39	0.95	9020	*	*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-76/66	1.01e+06	0.73	y 35:51	1.04	5110	*	*	2.5	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF $\eta$	1.19	*		2140	2.5	198	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotF $\eta$	1.04	*		2140	2.5	226	*	1.005-1.015	
Tetra	PCB-56/60	7.67e+05	0.70	y 36:53	1.01	3780	*	*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	5.99e+04	0.45	n 37:57	1.08	276	R	*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF $\eta$	1.27	*		2140	2.5	225	*	0.982-0.992	
Tetra	PCB-81	3.41e+04	0.69	y 39:09	1.33	146	*	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	2.56e+05	0.86	y 39:45	1.10	1270	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF $\eta$	1.18	*		1700	2.5	409	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF $\eta$	1.14	*		1700	2.5	425	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF $\eta$	0.96	*		1700	2.5	506	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF $\eta$	0.94	*		1700	2.5	517	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF $\eta$	1.06	*		1700	2.5	616	*	0.980-0.990	
Penta	PCB-95/98/102	1.30e+06	1.71	y 35:56	1.22	12200	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-93	*	*	n NotF $\eta$	0.84	*		1700	2.5	773	*	0.997-1.007	
Penta	PCB-88/91	1.67e+05	1.63	y 36:21	1.12	1710	*	*	2.5	*	1.012	1.005-1.015	
Penta	PCB-121	*	*	n NotF $\eta$	1.62	*		1700	2.5	403	*	1.009-1.019	
Penta	PCB-84/92	6.36e+05	1.59	y 37:14	1.05	6900	*	*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	*	*	n NotF $\eta$	1.13	*		1700	2.5	542	*	0.991-1.001	

Analyst: *Dms*

Date: *10/3/14*



Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.94e+06	1.62	y 37:38	1.10	20000	*	2.5	*	*	1.001	0.995-1.005	
Penta	PCB-113	*	*	n NotF $\eta$	1.41	*		1700	2.5	434	*	1.002-1.012	
Penta	PCB-99	6.27e+05	1.55	y 37:57	1.34	5330	*	2.5	*	*	1.009	1.004-1.014	
Penta	PCB-119	5.76e+04	1.77	y 38:25	1.53	460	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	6.82e+04	0.92	n 38:34	1.28	652	R	*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF $\eta$	1.52	*		1700	2.5	451	*	0.990-1.000	
Penta	PCB-97	4.63e+05	1.39	y 38:55	1.18	4790	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-86	*	*	n NotF $\eta$	0.84	*		1700	2.5	812	*	0.999-1.009	
Penta	PCB-87/117/125	7.13e+05	1.61	y 39:12	1.55	5630	*	2.5	*	*	1.007	1.002-1.012	
Penta	PCB-111/115	3.66e+04	2.02	n 39:21	1.63	275	R	*	2.5	*	1.011	1.006-1.016	
Penta	PCB-85/116	2.76e+05	1.73	y 39:28	1.30	2590	*	2.5	*	*	1.014	1.010-1.020	
Penta	PCB-120	2.80e+04	1.44	y 39:42	1.68	205	*	2.5	*	*	1.020	1.016-1.026	
Penta	PCB-110	2.47e+06	1.54	y 39:52	1.56	19400	*	2.5	*	*	1.025	1.020-1.030	
Penta	PCB-82	1.84e+05	1.59	y 40:30	0.76	2160	*	2.5	*	*	0.976	0.971-0.981	
Penta	PCB-124	1.42e+05	1.63	y 41:10	1.47	863	*	2.5	*	*	0.992	0.988-0.998	
Penta	PCB-107/109	1.73e+05	1.58	y 41:21	1.32	1170	*	2.5	*	*	0.997	0.991-1.001	
Penta	PCB-123	*	*	n NotF $\eta$	1.17	*		1700	2.5	441	*	0.996-1.006	
Penta	PCB-106/118	1.99e+06	1.64	y 41:40	1.17	14800	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	*	*	n NotF $\eta$	1.30	*		2270	2.5	427	*	0.995-1.005	
Penta	PCB-122	*	*	n NotF $\eta$	1.12	*		2270	2.5	494	*	0.999-1.009	
Penta	PCB-105	9.40e+05	1.61	y 43:12	1.30	5210	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF $\eta$	1.33	*		2270	2.5	383	*	0.996-1.006	
Penta	PCB-126	7.57e+04	1.74	y 45:27	1.18	510	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF $\eta$	1.11	*		1600	2.5	534	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF $\eta$	1.00	*		1600	2.5	595	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF $\eta$	1.12	*		1600	2.5	533	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF $\eta$	1.20	*		1600	2.5	495	*	1.055-1.065	
Hexa	PCB-136	3.38e+05	1.35	y 39:41	1.18	3860	*	2.5	*	*	1.069	1.064-1.074	
Hexa	PCB-148	*	*	n NotF $\eta$	0.74	*		1600	2.5	799	*	1.066-1.076	
Hexa	PCB-154	4.81e+04	1.41	y 40:16	0.86	753	*	2.5	*	*	1.084	1.080-1.090	
Hexa	PCB-151	4.83e+05	1.30	y 40:55	0.75	8680	*	2.5	*	*	1.102	1.097-1.107	
Hexa	PCB-135	2.63e+05	1.21	y 41:07	0.79	4460	*	2.5	*	*	1.107	1.103-1.113	
Hexa	PCB-144	9.56e+04	1.32	y 41:14	0.76	1680	*	2.5	*	*	1.110	1.105-1.117	
Hexa	PCB-147	*	*	n NotF $\eta$	0.82	*		1600	2.5	725	*	1.109-1.121	
Hexa	PCB-139/149	1.84e+06	1.23	y 41:37	0.76	32400	*	2.5	*	*	1.121	1.116-1.128	
Hexa	PCB-140	*	*	n NotF $\eta$	0.72	*		535	2.5	276	*	1.121-1.133	
Hexa	PCB-134/143	1.89e+05	1.24	y 42:17	0.92	1520	*	2.5	*	*	0.976	0.970-0.980	

Analyst: DMS

Date: 10/3/14

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	9.77e+04	0.90	n 42:33	0.82	880	R	*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotFη	0.91	*		2380	2.5	569	*	0.981-0.991	
Hexa	PCB-146/165	7.19e+05	1.30	y 42:57	1.25	4250		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	1.30e+06	1.22	y 43:13	1.10	8690		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	4.93e+06	1.24	y 43:21	1.25	29100		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotFη	1.45	*		2380	2.5	357	*	1.001-1.011	
Hexa	PCB-141	9.85e+05	1.32	y 44:05	1.09	6890		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-137	1.32e+05	0.94	n 44:28	1.06	941	R	*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	2.25e+05	1.07	y 44:35	0.96	1770		*	2.5	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	5.34e+06	1.21	y 44:57	1.29	30700		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	6.03e+05	1.35	y 45:10	1.34	3340		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	1.62e+05	1.30	y 45:26	0.85	1410		*	2.5	*	1.012	1.007-1.017	
Hexa	PCB-166	*	*	n NotFη	1.19	*		2380	2.5	387	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotFη	1.11	*		2380	2.5	413	*	0.996-1.006	
Hexa	PCB-128/162	5.88e+05	1.10	y 46:30	1.05	3610		*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	2.29e+05	1.07	y 46:54	1.20	1130		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	5.54e+05	1.42	y 48:13	1.14	2920		*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-157	1.38e+05	1.06	y 48:28	1.16	684		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotFη	1.12	*		1650	2.5	279	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotFη	1.58	*		1640	2.5	181	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotFη	1.63	*		1640	2.5	175	*	1.006-1.016	
Hepta	PCB-179	6.79e+05	1.06	y 44:12	1.30	4950		*	2.5	*	1.029	1.024-1.034	
Hepta	PCB-176	2.07e+05	1.19	y 44:40	1.48	1330		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotFη	1.45	*		1640	2.5	197	*	1.050-1.060	
Hepta	PCB-178	2.58e+05	1.18	y 45:47	1.03	2370		*	2.5	*	1.066	1.061-1.071	
Hepta	PCB-175	5.53e+04	1.11	y 46:08	1.01	519		*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	1.57e+06	1.01	y 46:17	1.25	11900		*	2.5	*	1.078	1.073-1.083	
Hepta	PCB-183	7.71e+05	1.20	y 46:37	1.21	6070		*	2.5	*	1.085	1.081-1.091	
Hepta	PCB-185	1.51e+05	1.02	y 47:15	1.80	1040		*	2.5	*	0.956	0.951-0.961	
Hepta	PCB-174	1.28e+06	1.04	y 47:39	1.38	11600		*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotFη	1.38	*		1640	2.5	281	*	0.960-0.970	
Hepta	PCB-177	6.60e+05	1.08	y 47:55	1.26	6540		*	2.5	*	0.968	0.963-0.973	
Hepta	PCB-171	3.39e+05	1.15	y 48:13	1.58	2670		*	2.5	*	0.974	0.970-0.980	
Hepta	PCB-173	*	*	n NotFη	1.11	*		1640	2.5	349	*	0.978-0.988	
Hepta	PCB-172	2.03e+05	0.93	y 49:06	1.63	1540		*	2.5	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotFη	1.74	*		1640	2.5	223	*	0.991-1.001	
Hepta	PCB-180	2.88e+06	1.05	y 49:30	1.34	26600		*	2.5	*	1.000	0.995-1.005	

Analyst: *Dms*

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Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	2.04e+05	1.16	y 49:42	1.72	1480		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	8.16e+04	0.85	n 49:57	1.69	599	R	*	2.5	*	1.009	1.004-1.014	
Hepta	PCB-170	1.05e+06	1.01	y 50:59	1.60	9130		*	2.5	*	1.001	0.995-1.005	
Hepta	PCB-190	3.22e+05	0.92	y 51:08	2.21	2010		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	5.22e+04	1.46	n 52:28	1.55	390	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	1.22e+05	1.16	n 48:24	1.08	1260	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	9.32e+04	0.96	y 48:54	1.15	911		*	2.5	*	1.011	1.005-1.015	
Octa	PCB-204	*	*	n NotFη	1.14	*		1440	2.5	354	*	1.008-1.018	
Octa	PCB-197	3.95e+04	0.97	y 49:23	1.07	413		*	2.5	*	1.021	1.015-1.025	
Octa	PCB-200	6.00e+04	1.15	n 50:14	1.06	634	R	*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	2.80e+04	0.92	y 51:33	0.76	417		*	2.5	*	1.065	1.059-1.069	
Octa	PCB-199	4.59e+05	0.97	y 51:40	0.80	6470		*	2.5	*	1.068	1.061-1.071	
Octa	PCB-196/203	5.53e+05	0.91	y 51:56	0.80	7750		*	2.5	*	1.073	1.066-1.076	
Octa	PCB-195	2.29e+05	0.81	y 53:06	1.23	1990		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	4.97e+05	0.99	y 53:59	1.21	4370		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	3.44e+04	0.83	y 54:16	1.54	237		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-208	1.46e+05	1.45	y 53:14	0.93	1170		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	5.81e+04	1.21	y 53:33	1.08	398		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	2.56e+05	1.30	y 55:38	1.02	2930		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	1.59e+05	1.33	y 57:00	1.17	1600		*	2.5	*	1.000	0.995-1.005	

Analyst: Dms

Date: 10/3/14

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	2.13e+05	2.93 y	16:13	1.27	609.736	
Total Di-PCB	3.55e+06	1.36 y	22:39	1.21	10873.4	
Total Tri-PCB	2.79e+06	1.09 y	25:58	1.10	14249.7	
Total Tri-PCB	3.68e+06	1.05 y	28:36	1.21	17629.2	Sum:31878.9
Total Tetra-PCB	9.97e+06	0.78 y	29:53	1.09	58381.0	
Total Penta-PCB	1.12e+07	1.71 y	35:56	1.18	98223.4	
Total Penta-PCB	1.02e+06	1.61 y	43:12	1.25	5721.57	Sum:103945
Total Hexa-PCB	3.06e+06	1.35 y	39:41	0.90	51786.4	
Total Hexa-PCB	1.60e+07	1.24 y	42:17	1.11	96011.3	Sum:147798
Total Hepta-PCB	1.06e+07	1.06 y	44:12	1.42	89788.5	
Total Octa-PCB	1.17e+06	0.96 y	48:54	0.96	15955.8	
Total Octa-PCB	7.61e+05	0.81 y	53:06	1.33	6596.68	Sum:22552.5
Total Nona-PCB	4.61e+05	1.45 y	53:14	1.01	4498.00	
Total Deca-PCB	1.59e+05	1.33 y	57:00	1.17	1603.81	

Total PCB Conc: ~~479628~~ 732182

472000

Integrations

by

Analyst: *DMS*

Date: *10/3/14*

Client ID: CS-CB-01-20140903-S RX  
Lab ID: 1400668-03RE2 DL 1:100

Filename: 141002E1 S:5  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:2.1060

ConCal: ST141002E1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	6.27e+06	3.36 y	0.87	16:13	0.623	0.629-0.635	↓	22900	96.5
13C-PCB-3	6.45e+06	3.33 y	0.91	18:50	0.723	0.725-0.733	↓	22500	94.8
13C-PCB-4	4.24e+06	1.51 y	0.59	20:10	0.774	0.775-0.783	↓	23000	96.9
13C-PCB-9	6.41e+06	1.60 y	0.90	21:57	0.843	0.842-0.850		22800	95.9
13C-PCB-11	6.78e+06	1.63 y	0.94	25:20	0.973	0.968-0.978		23000	96.9
13C-PCB-19	3.50e+06	1.11 y	0.53	24:19	0.934	0.930-0.940		21000	88.3
13C-PCB-28	3.78e+06	1.00 y	0.93	29:11	1.004	0.999-1.009		27600	116
13C-PCB-32	5.35e+06	1.15 y	0.80	27:14	1.046	1.040-1.050		21400	90.2
13C-PCB-37	4.13e+06	1.11 y	0.84	33:04	1.138	1.131-1.143		33500	141
13C-PCB-47	3.52e+06	0.73 y	0.81	32:06	0.871	0.866-0.874		21200	89.2
13C-PCB-52	3.37e+06	0.74 y	0.77	31:36	0.857	0.853-0.861		21400	90.1
13C-PCB-54	3.96e+06	0.77 y	0.97	28:04	0.761	0.758-0.766		19900	84.0
13C-PCB-70	4.50e+06	0.79 y	1.00	35:38	0.966	0.961-0.971		22000	92.8
13C-PCB-77	4.33e+06	0.82 y	0.94	39:45	1.078	1.073-1.083		22500	94.7
13C-PCB-80	4.77e+06	0.78 y	1.03	36:03	0.977	0.972-0.982		22600	95.3
13C-PCB-81	4.17e+06	0.81 y	0.92	39:10	1.062	1.057-1.067		22100	93.2
13C-PCB-95	2.07e+06	1.66 y	0.74	35:56	0.913	0.908-0.918		23700	99.6
13C-PCB-97	1.94e+06	1.54 y	0.70	38:55	0.989	0.984-0.994		23300	98.0
13C-PCB-101	2.09e+06	1.64 y	0.78	37:37	0.956	0.951-0.961		22600	95.1
13C-PCB-104	2.59e+06	1.68 y	1.00	32:46	0.833	0.828-0.836		21900	92.3
13C-PCB-105	3.30e+06	1.55 y	1.37	43:11	0.929	0.924-0.934		20400	86.1
13C-PCB-114	3.28e+06	1.63 y	1.36	42:19	0.911	0.905-0.915		20400	85.8
13C-PCB-118	2.73e+06	1.63 y	0.96	41:40	1.059	1.054-1.064		24000	101
13C-PCB-123	2.66e+06	1.60 y	0.89	41:29	1.054	1.050-1.060		25200	106
13C-PCB-126	2.98e+06	1.62 y	1.31	45:26	0.977	0.972-0.982		19300	81.3
13C-PCB-127	3.53e+06	1.52 y	1.47	43:31	0.936	0.931-0.941		20200	85.3
13C-PCB-138	3.20e+06	1.30 y	1.10	44:55	0.966	0.961-0.971		24600	104
13C-PCB-141	3.13e+06	1.14 y	1.07	44:05	0.948	0.943-0.953		24600	104
13C-PCB-153	3.22e+06	1.30 y	1.15	43:20	0.932	0.927-0.937		23800	100
13C-PCB-155	1.77e+06	1.49 n	0.84	37:08	0.944	0.939-0.949		17800	75.0
13C-PCB-156	3.97e+06	1.25 y	1.30	48:12	1.037	1.032-1.042		25900	109
13C-PCB-157	4.13e+06	1.21 y	1.36	48:28	1.043	1.038-1.048		25700	108
13C-PCB-159	3.70e+06	1.28 y	1.25	46:12	0.994	0.989-0.999		25100	106
13C-PCB-167	4.01e+06	1.33 y	1.35	46:54	1.009	1.004-1.014		25100	106
13C-PCB-169	3.50e+06	1.19 y	1.29	50:37	1.089	1.083-1.093		23100	97.1
13C-PCB-170	1.72e+06	0.47 y	0.54	50:57	1.096	1.089-1.101		26800	113
13C-PCB-180	1.91e+06	0.51 y	0.68	49:29	1.065	1.060-1.070		23600	99.5
13C-PCB-188	2.50e+06	0.50 y	0.92	42:57	0.924	0.919-0.929		23000	97.0
13C-PCB-189	2.05e+06	0.45 y	0.72	52:27	1.128	1.120-1.132		24200	102
13C-PCB-194	2.23e+06	0.85 y	0.80	53:58	0.995	0.990-1.000		25300	106
13C-PCB-202	2.11e+06	1.02 y	0.84	48:23	1.041	1.036-1.046		21300	89.9
13C-PCB-206	2.03e+06	0.85 y	0.65	55:37	1.025	1.021-1.031		28200	119
13C-PCB-208	3.20e+06	0.71 y	1.08	53:14	0.981	0.976-0.986		26700	113
13C-PCB-209	2.01e+06	1.15 y	0.61	56:59	1.050	1.045-1.055		29700	125

I

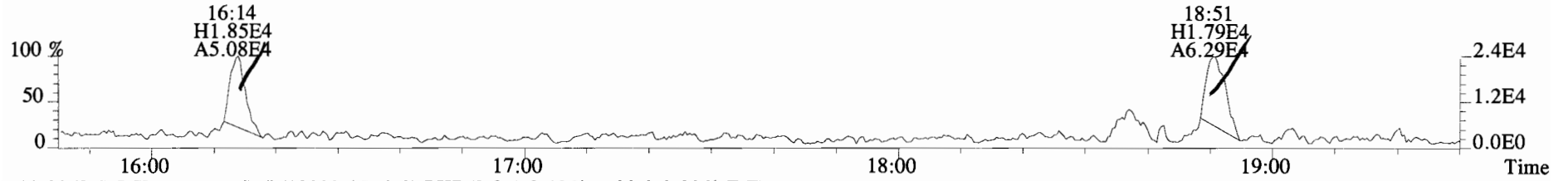
CRS vs. RS											
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec		
13C-PCB-79	4.75e+06	0.83 y	1.02	37:56	1.029	1.023-1.034		22900	96.4		
13C-PCB-178	1.83e+06	0.50 y	0.61	45:46	0.985	0.979-0.990		25200	106		
PS vs. IS											
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec		
13C-PCB-79	4.75e+06	0.83 y	1.10	37:56	0.969	0.964-0.974		24600	103		
13C-PCB-178	1.83e+06	0.50 y	0.90	45:46	0.925	0.920-0.930		25300	107		
RS											
Name	Resp	RA	RRF	RT	Conc						
13C-PCB-15	7.45e+06	1.56 y	1.00	26:03	23700						
13C-PCB-31	3.48e+06	0.96 y	1.00	29:04	23700						
13C-PCB-60	4.85e+06	0.74 y	1.00	36:52	23700						
13C-PCB-111	2.81e+06	1.60 y	1.00	39:20	23700						
13C-PCB-128	2.81e+06	1.32 y	1.00	46:29	23700						
13C-PCB-205	2.63e+06	0.91 y	1.00	54:15	23700						

\* = within 16680 met HOD limits.

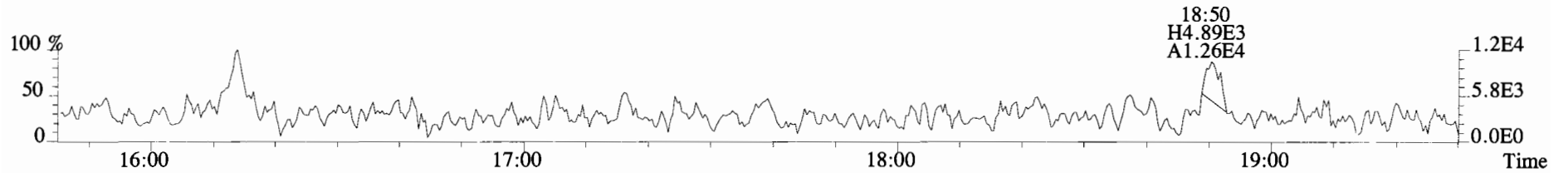
Analyst: DMS

Date: 10/3/14

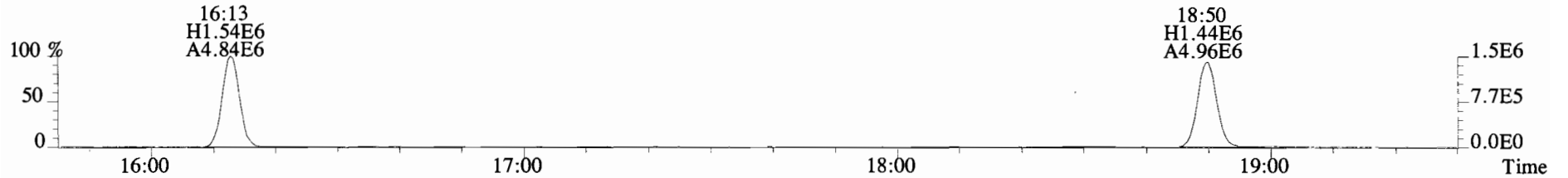
File:141002E1 #1-729 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3304.0,0.00%,F,F)



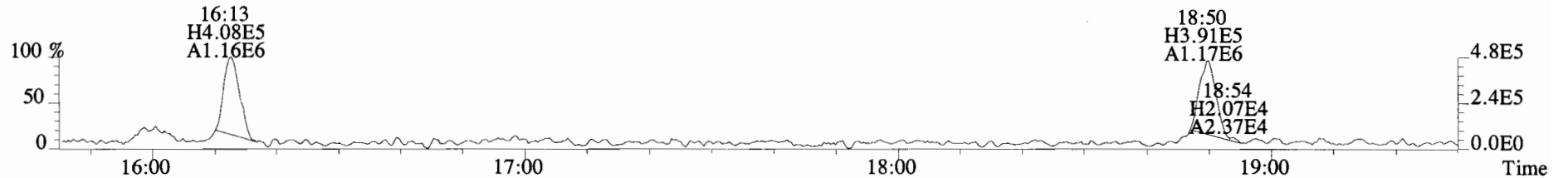
190.0363 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4200.0,0.00%,F,F)



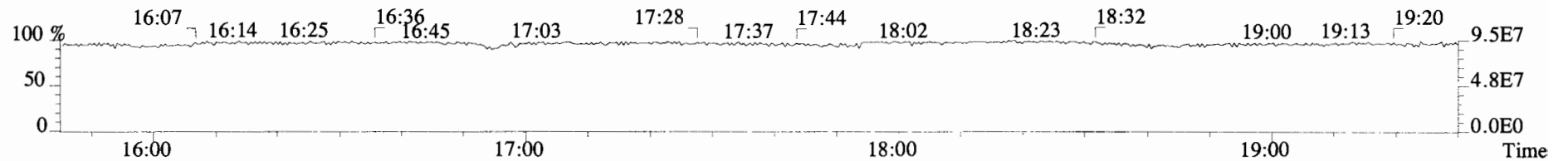
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5584.0,0.00%,F,F)



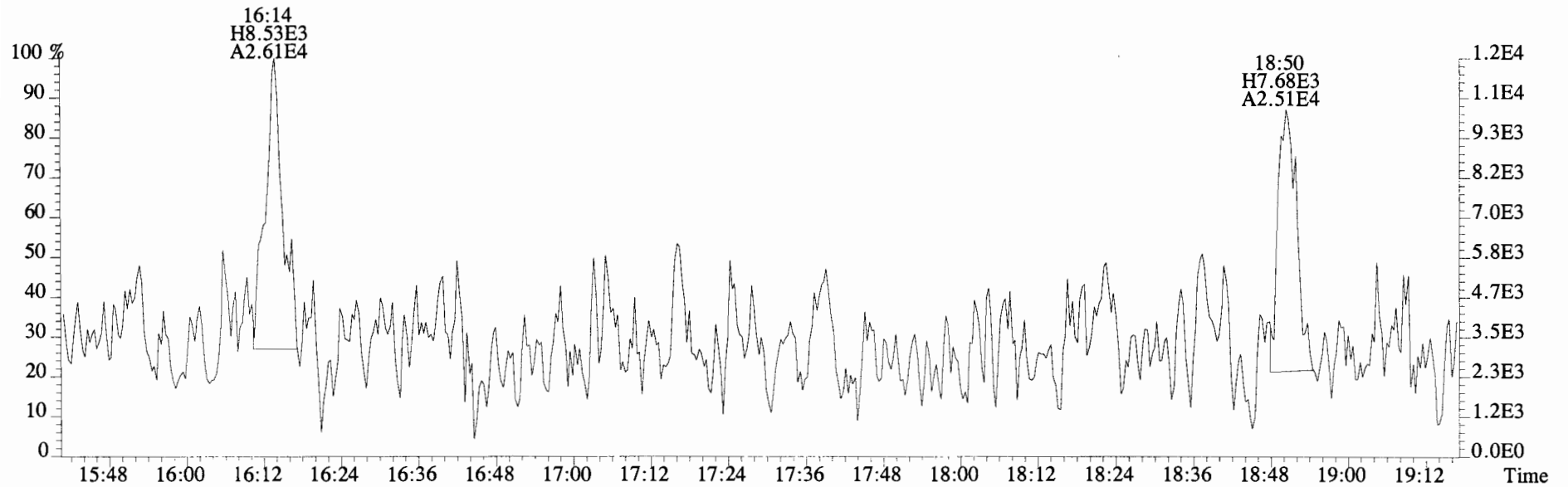
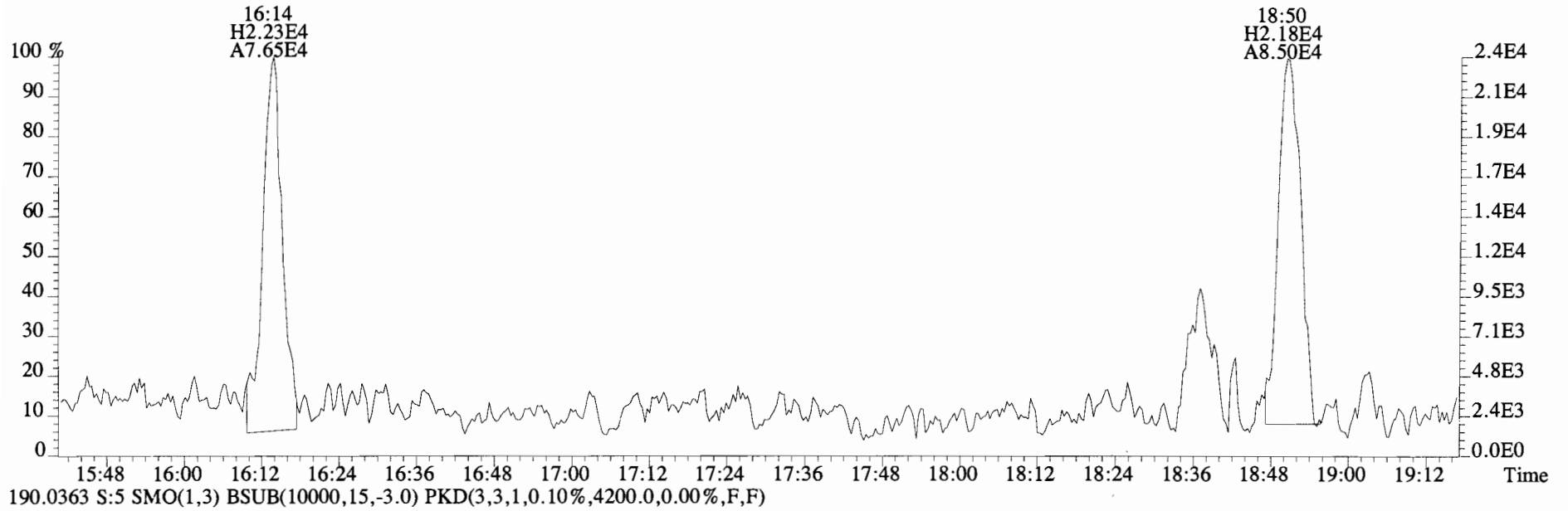
202.0766 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43336.0,0.00%,F,F)



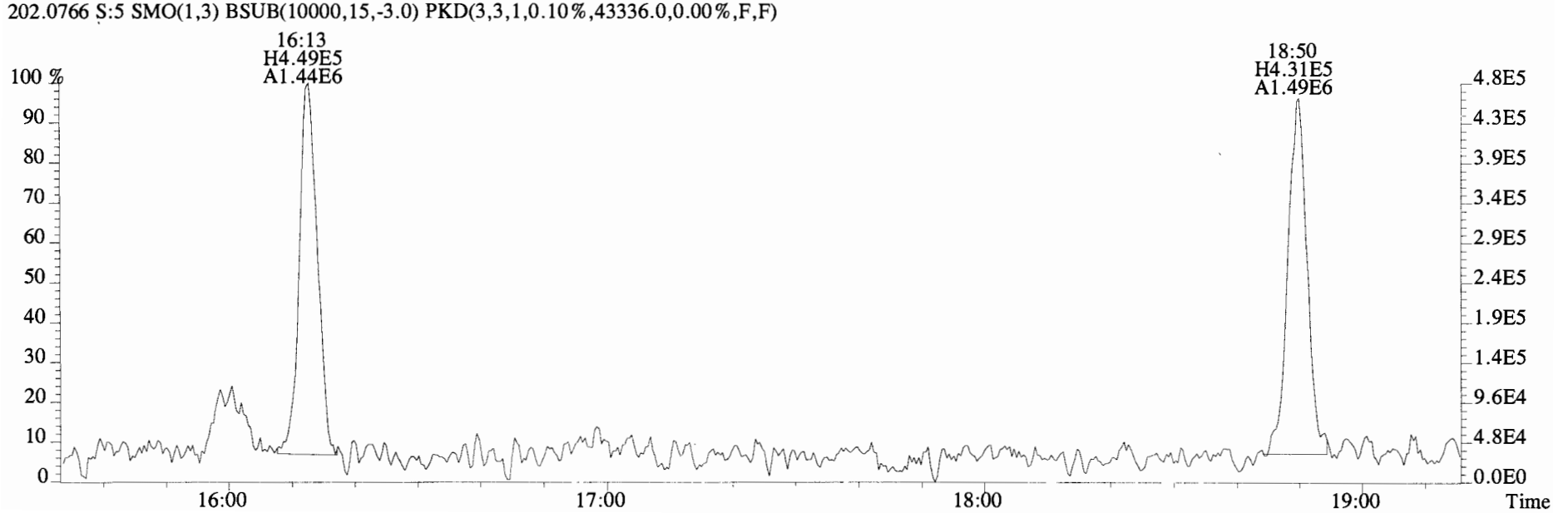
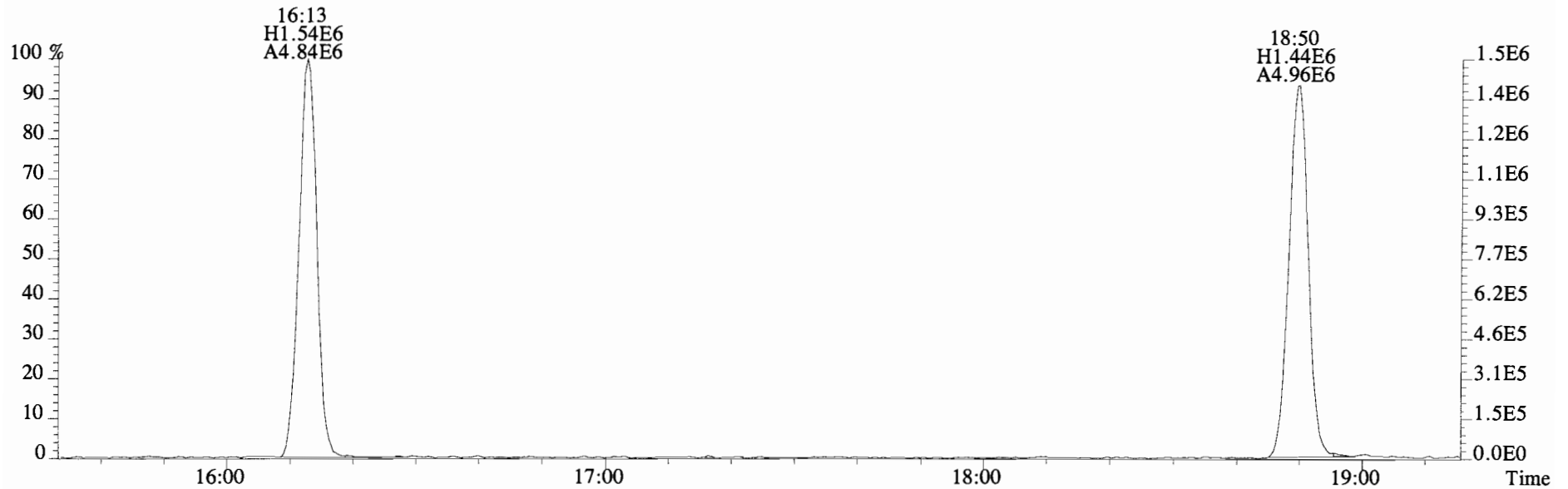
180.9880 S:5



File:141002E1 #1-729 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
188.0393 S:5 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,3304.0,0.00%,F,F)

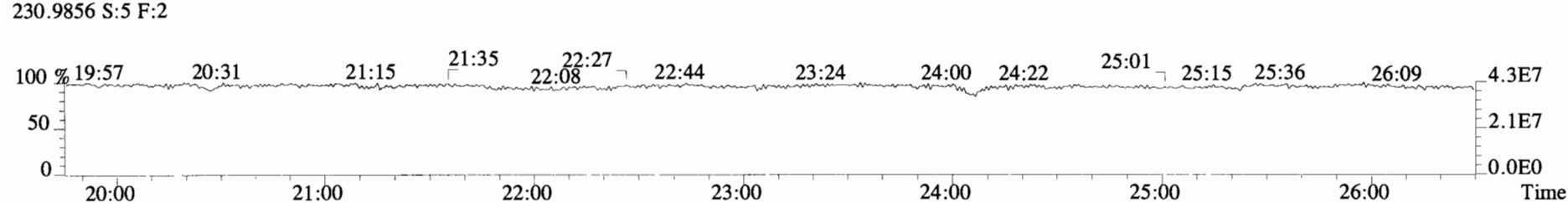
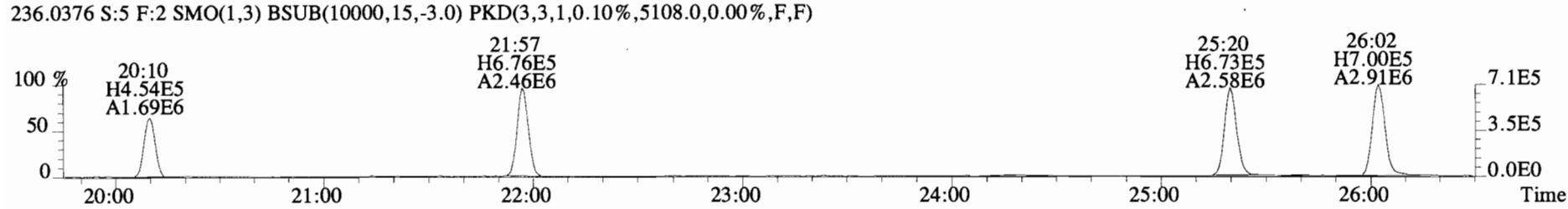
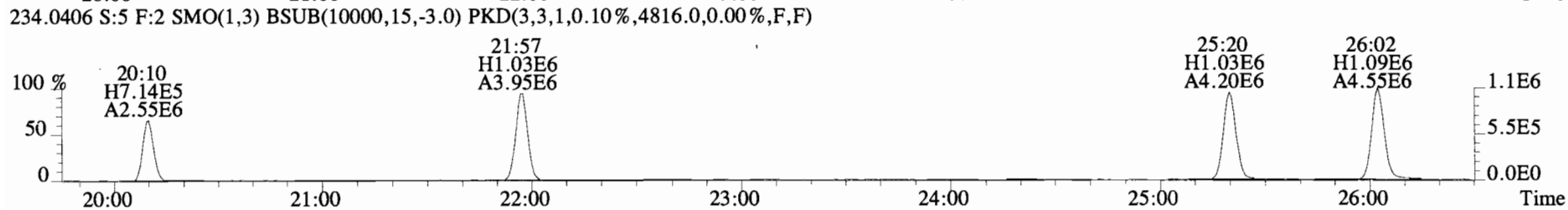
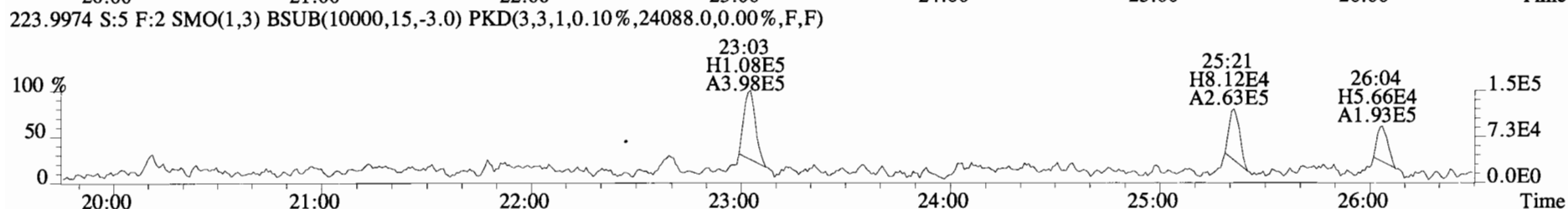
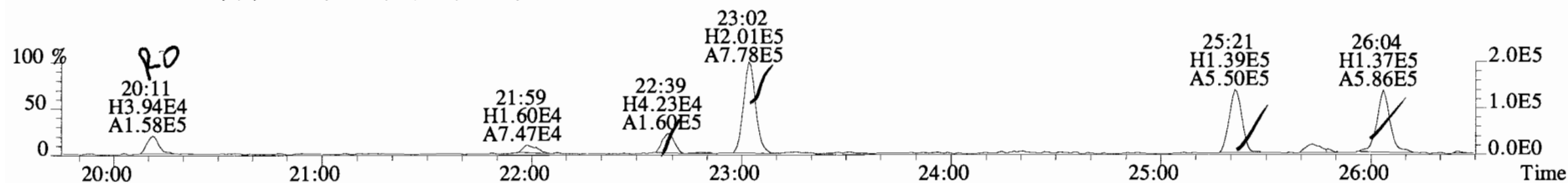


File:141002E1 #1-729 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5584.0,0.00%,F,F)

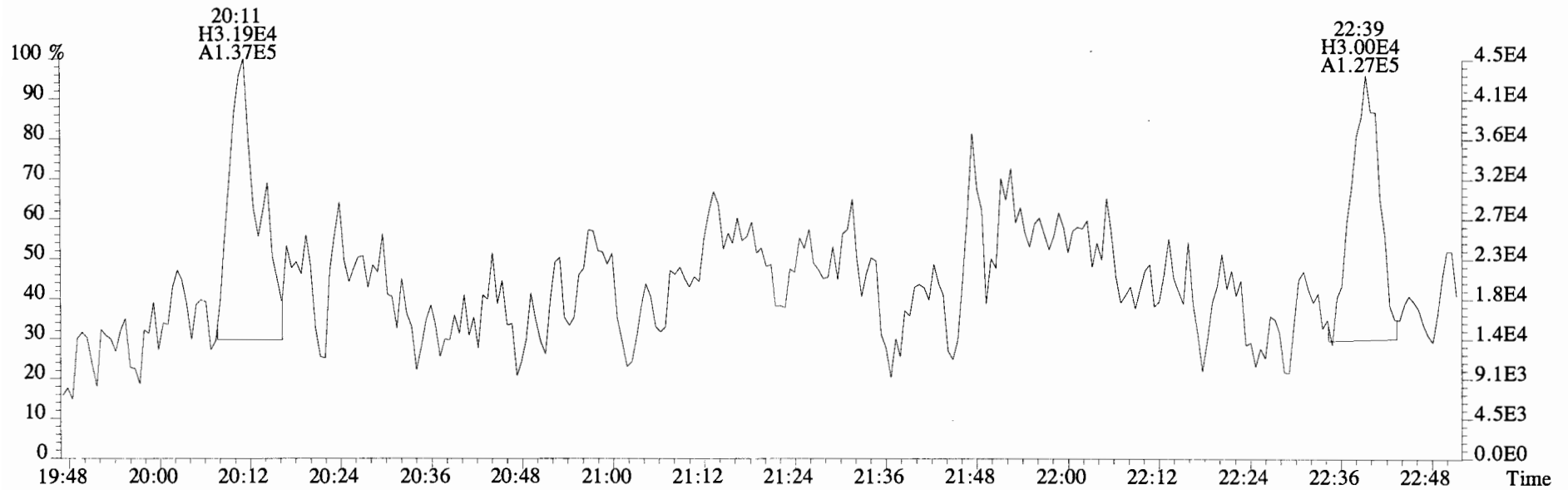
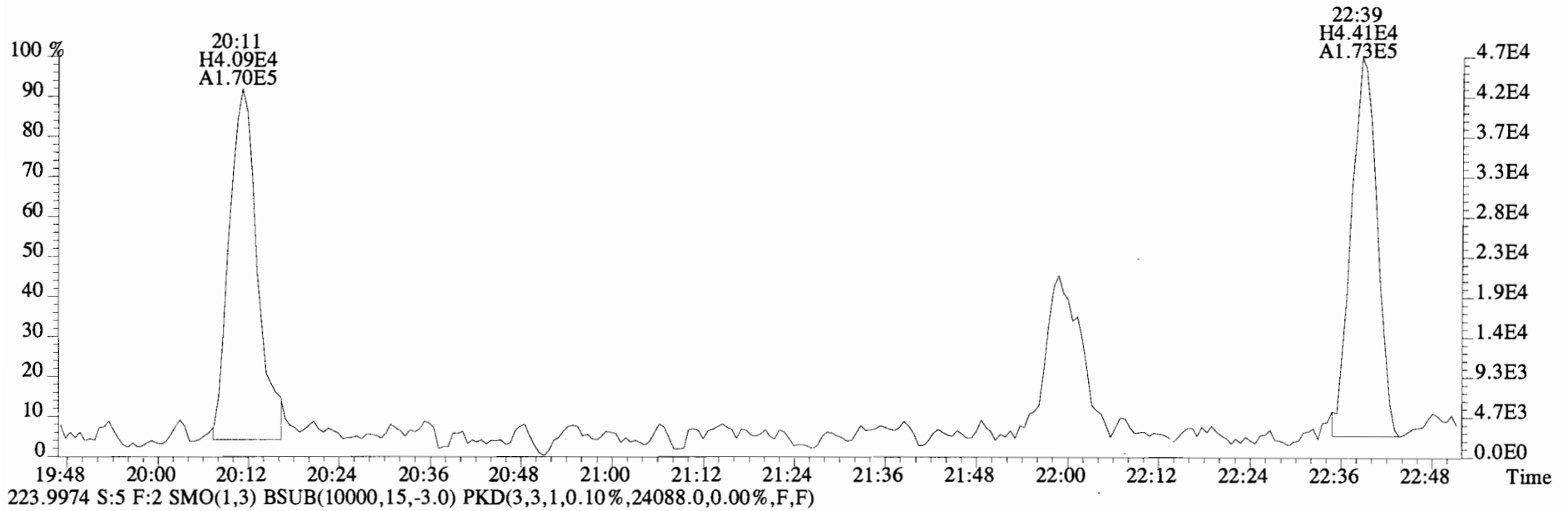




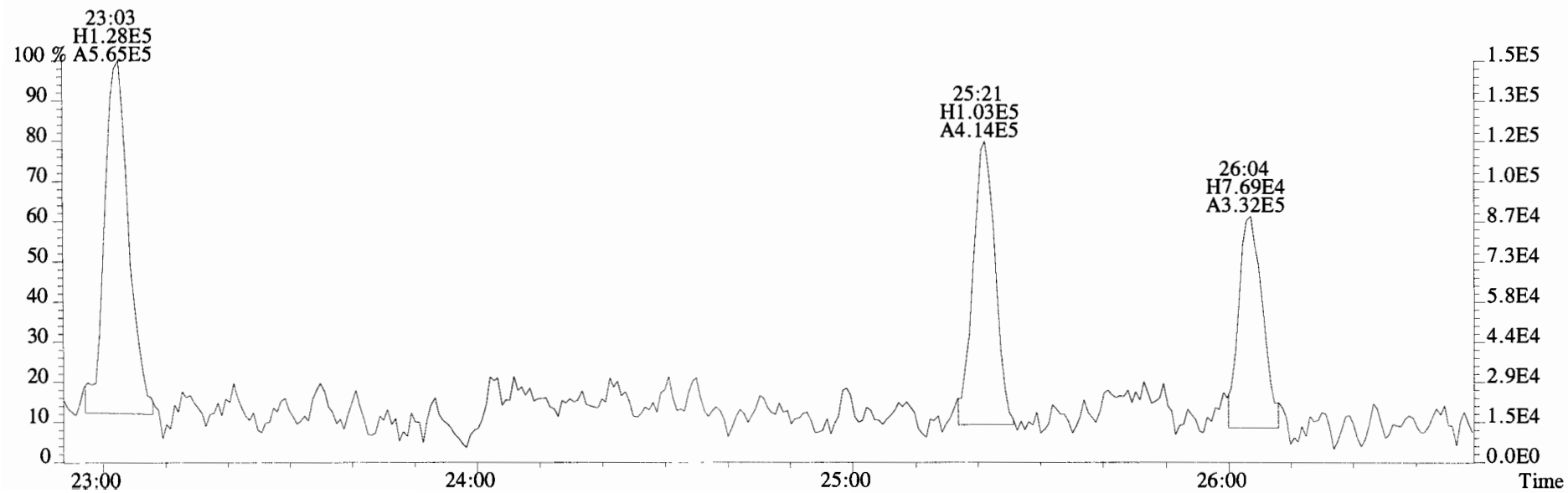
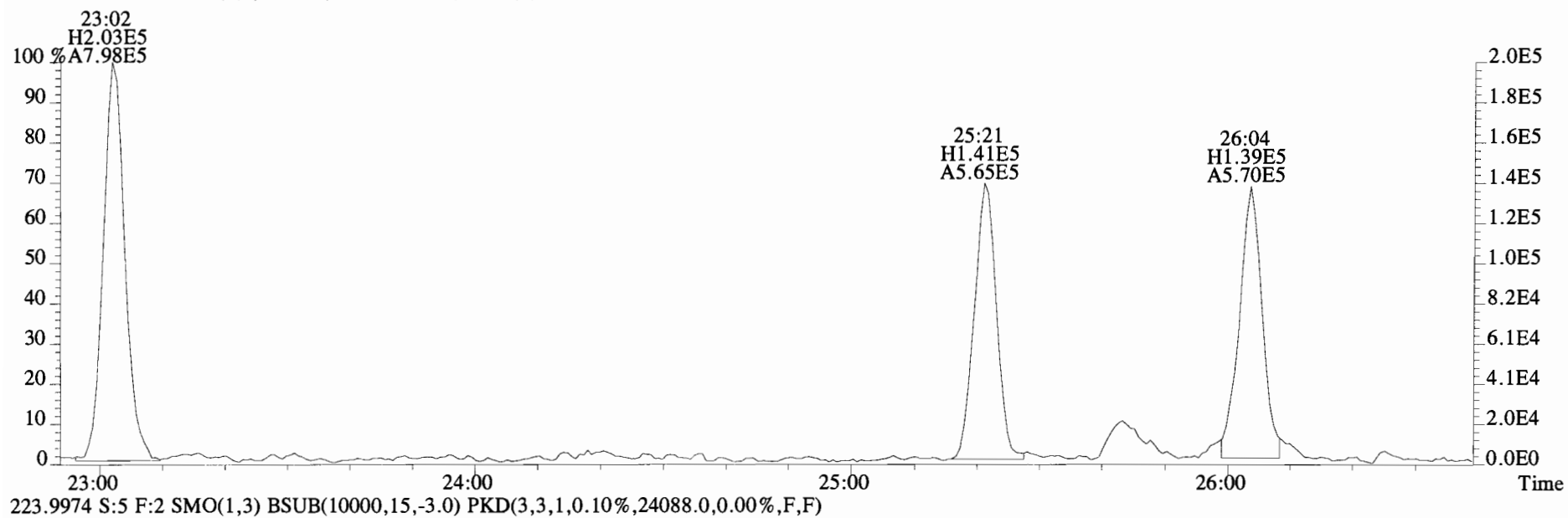
File:141002E1 #1-757 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3544.0,0.00%,F,F)



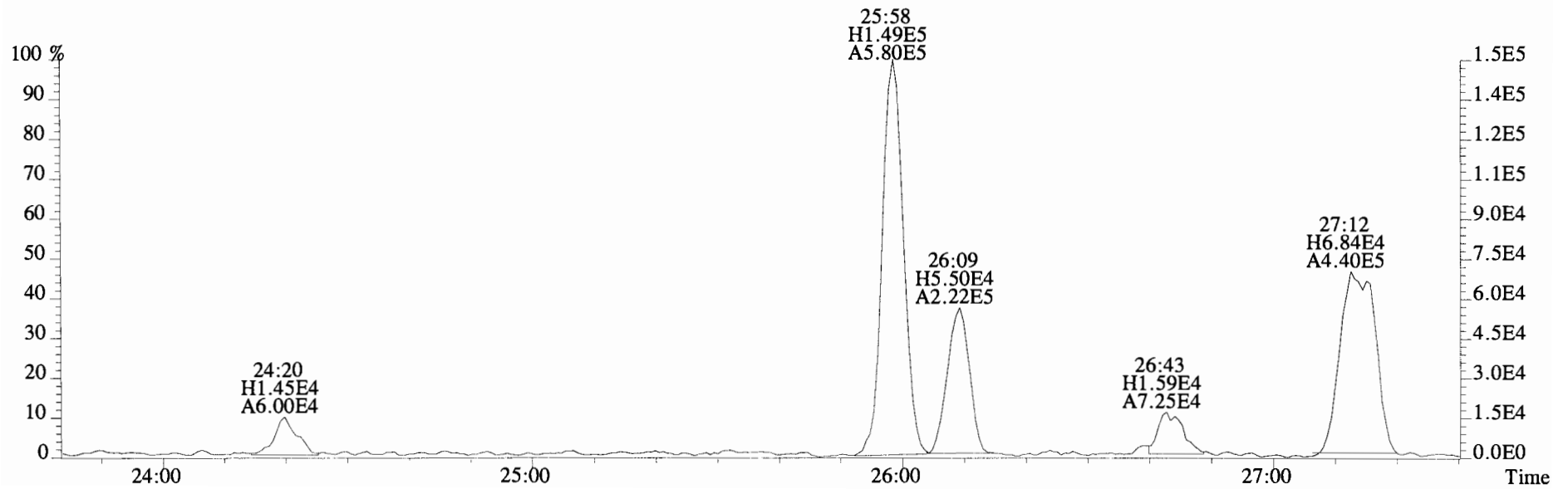
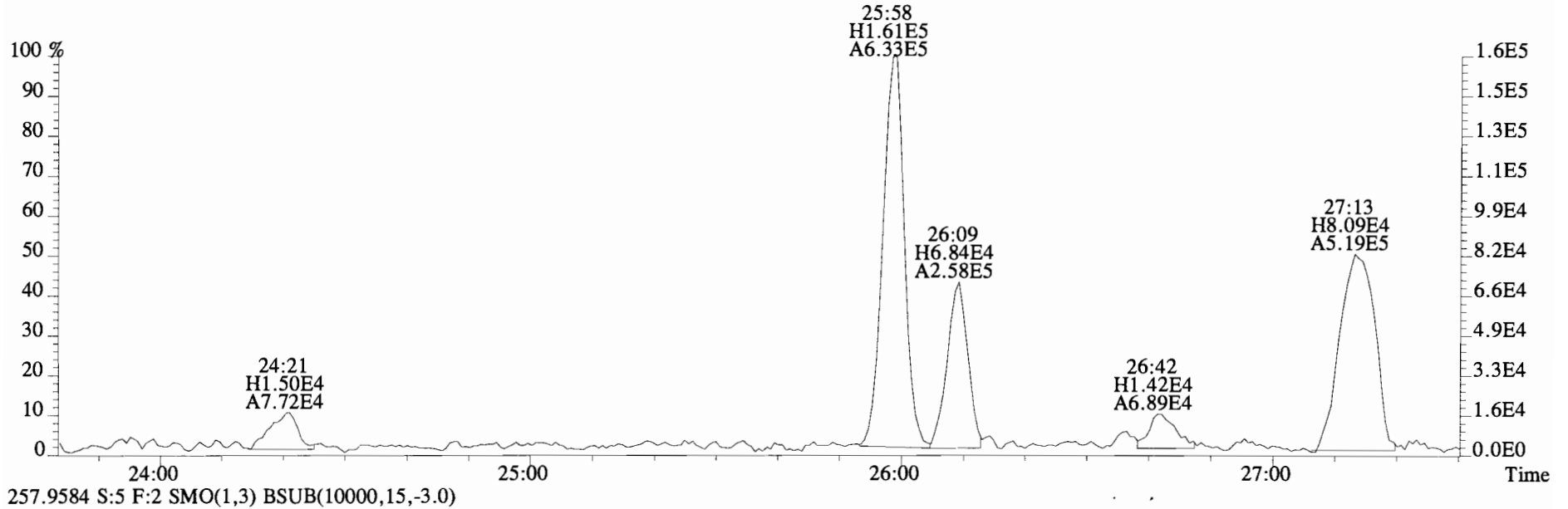
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3544.0,0.00%,F,F)



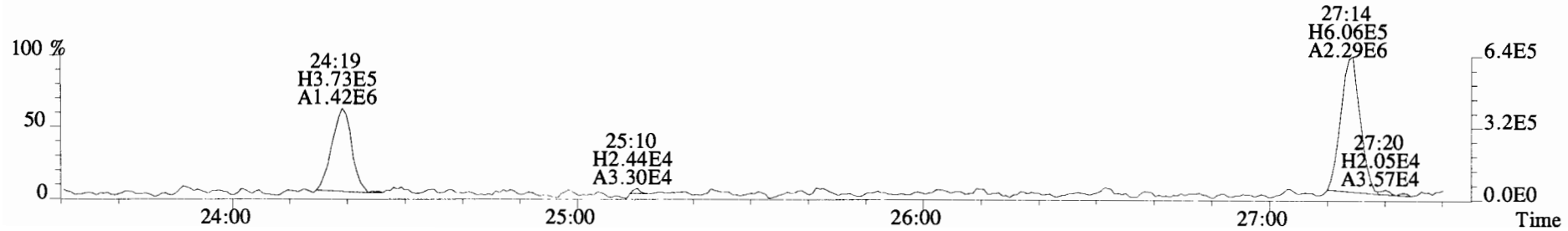
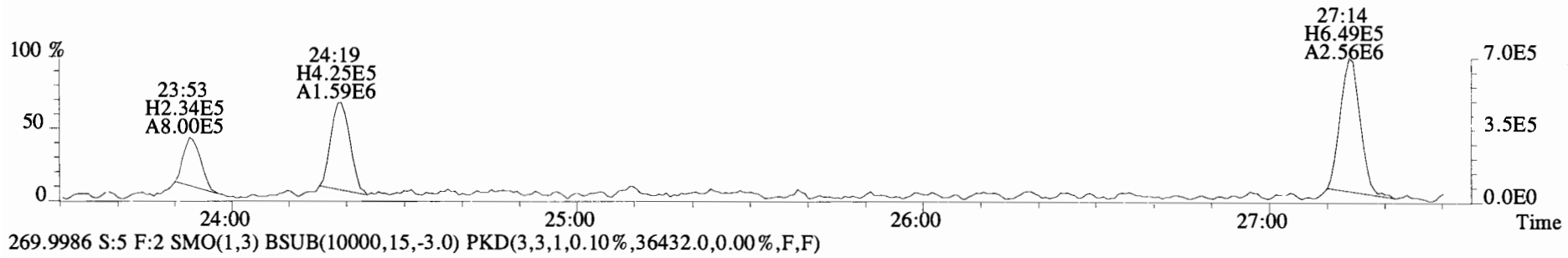
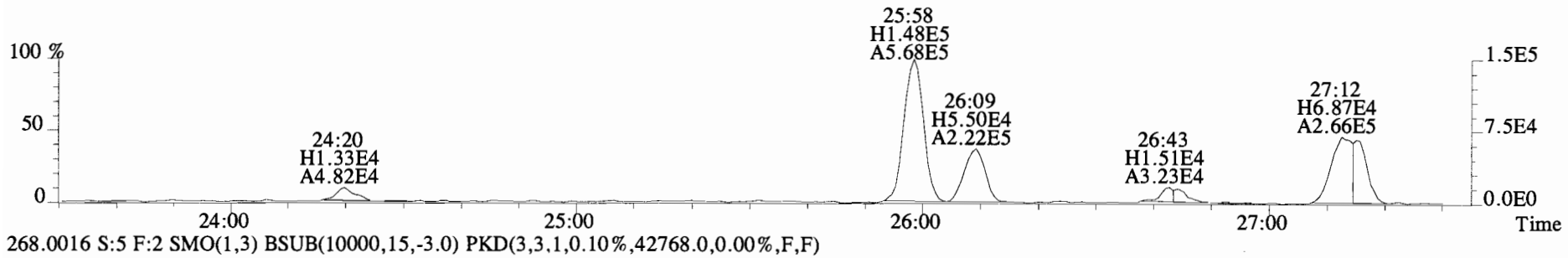
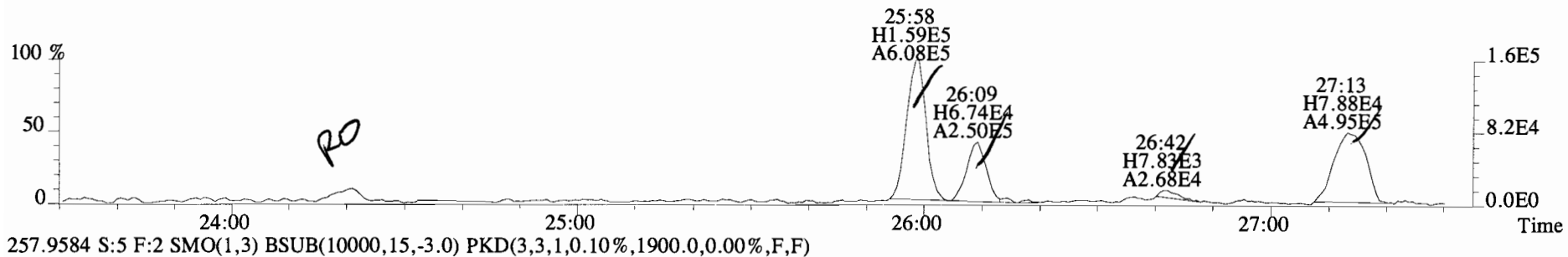
File:141002E1 #1-757 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3544.0,0.00%,F,F)



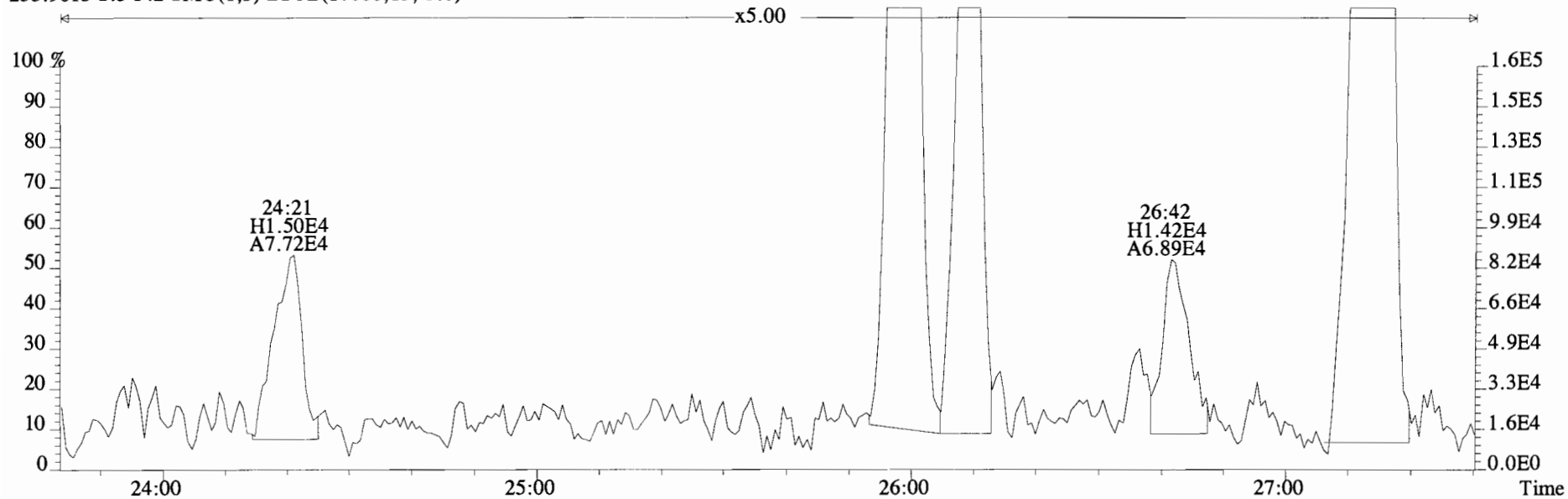
File:141002E1 #1-757 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0)



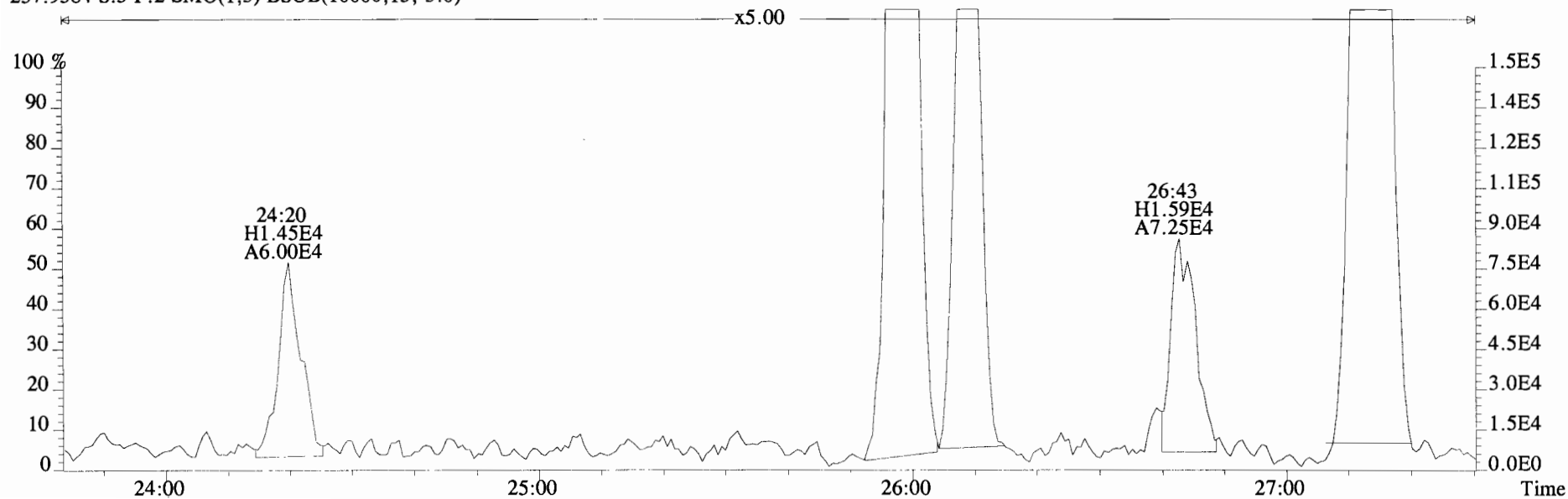
File:141002E1 #1-757 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5296.0,0.00%,F,F)



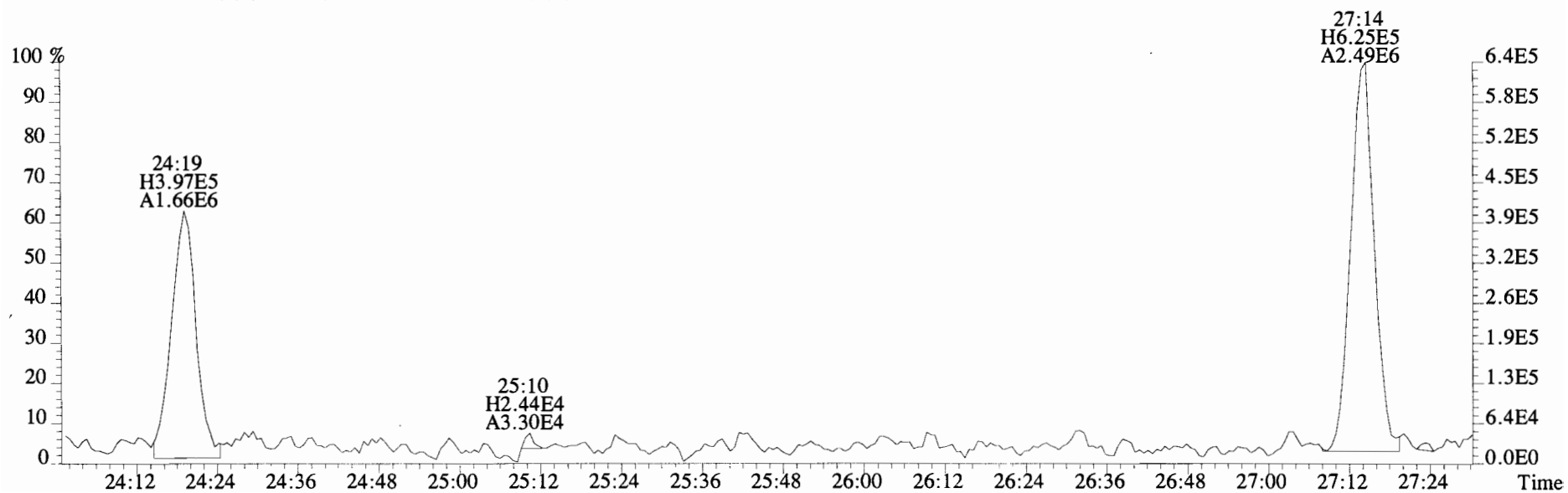
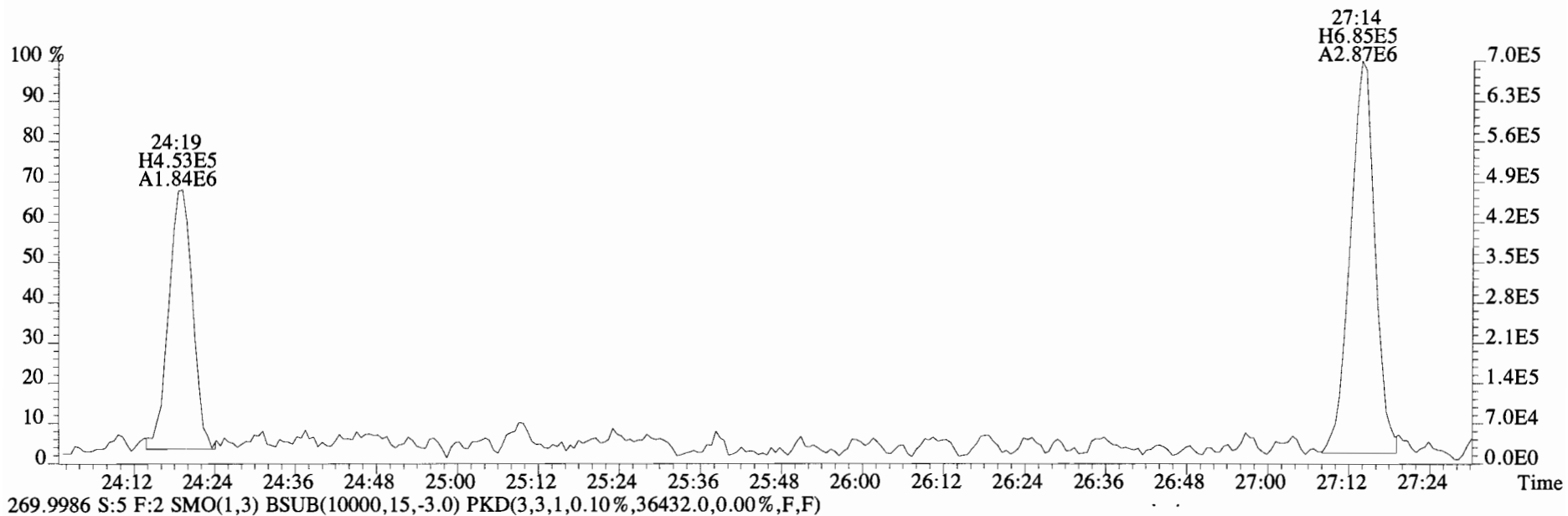
File:141002E1 #1-757 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0)



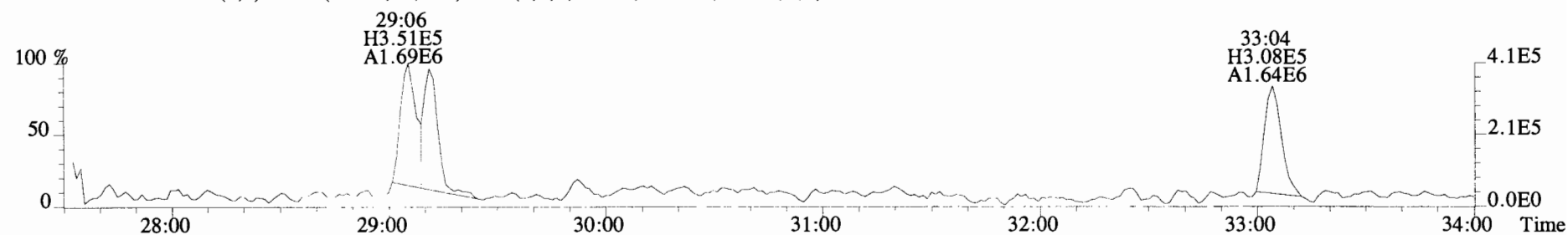
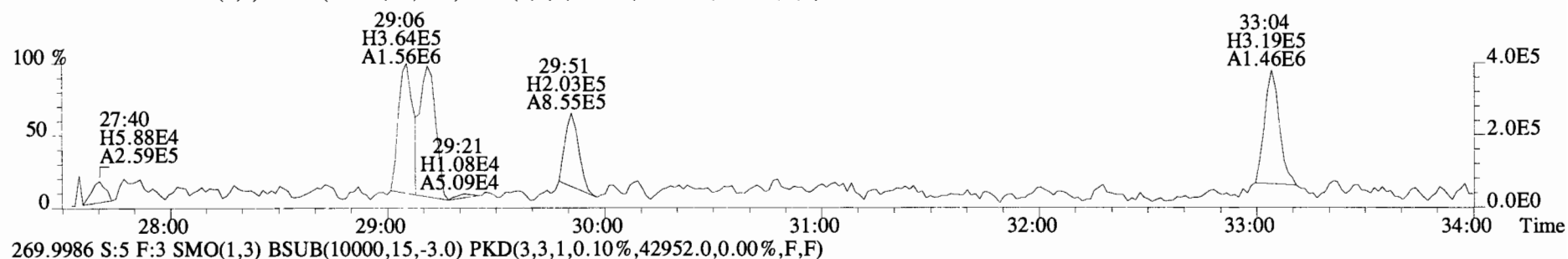
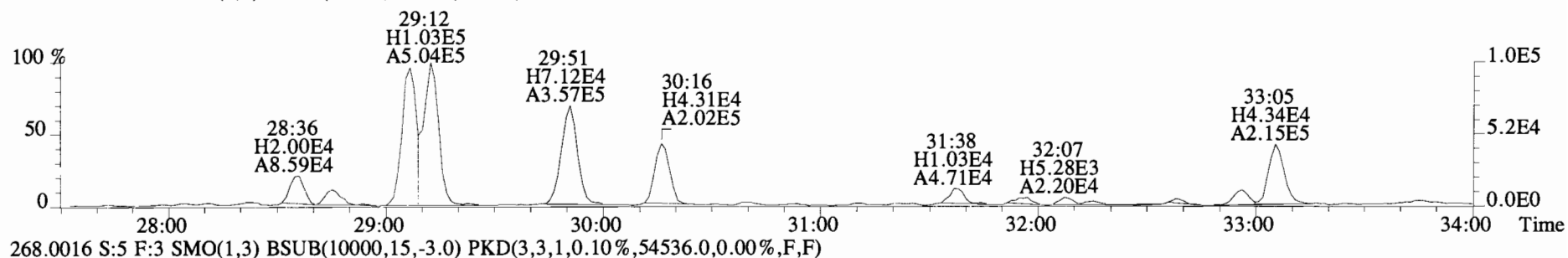
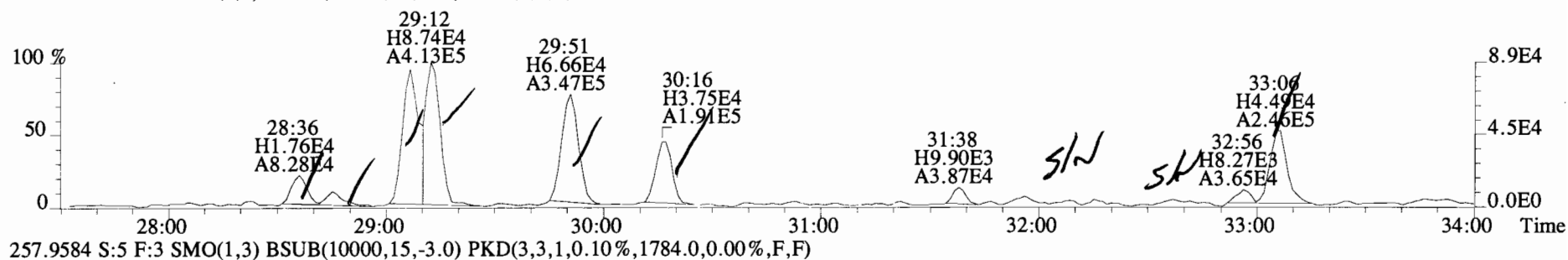
257.9584 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0)



File:141002E1 #1-757 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
268.0016 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42768.0,0.00%,F,F)

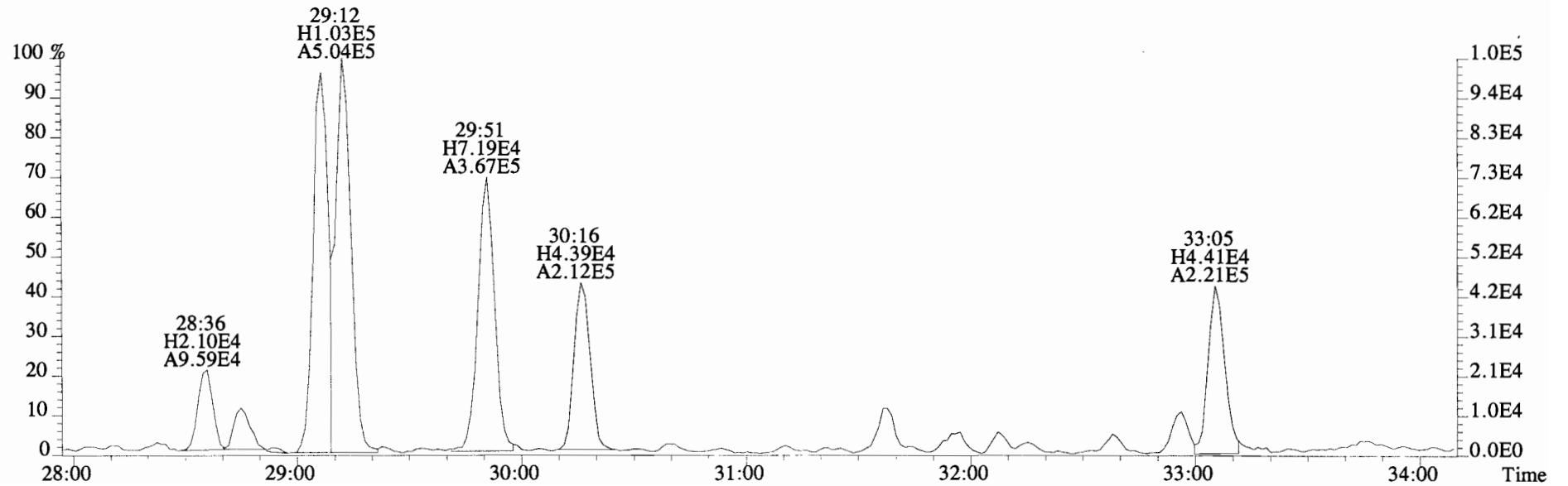
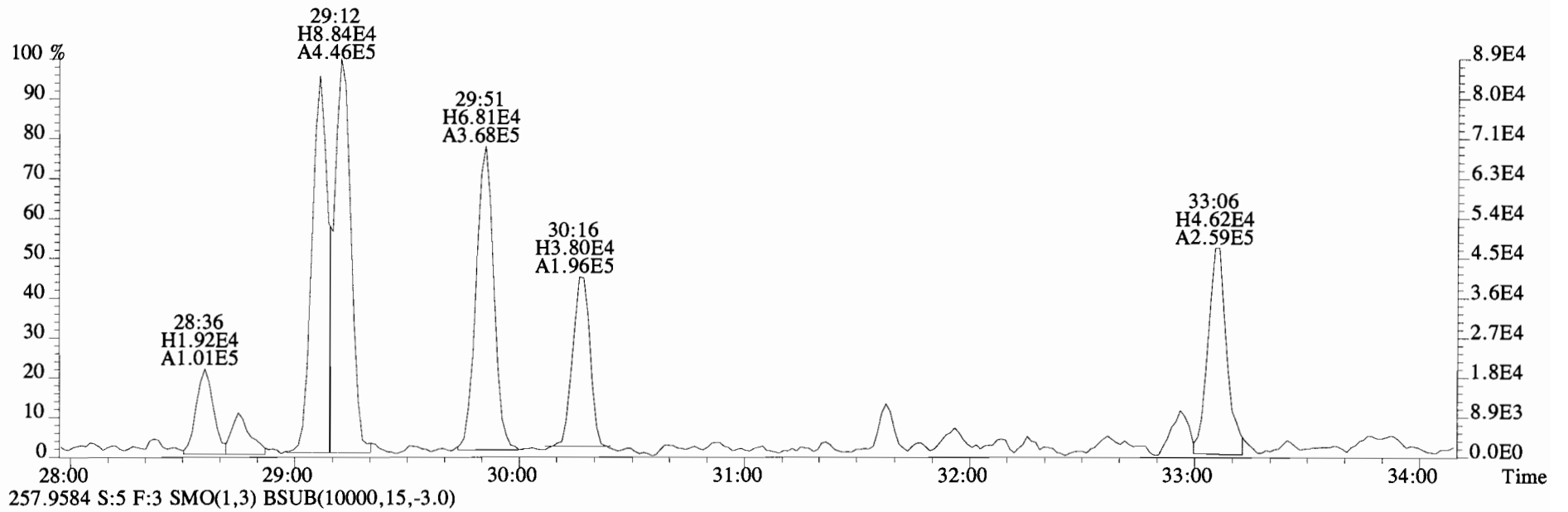


File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2496.0,0.00%,F,F)

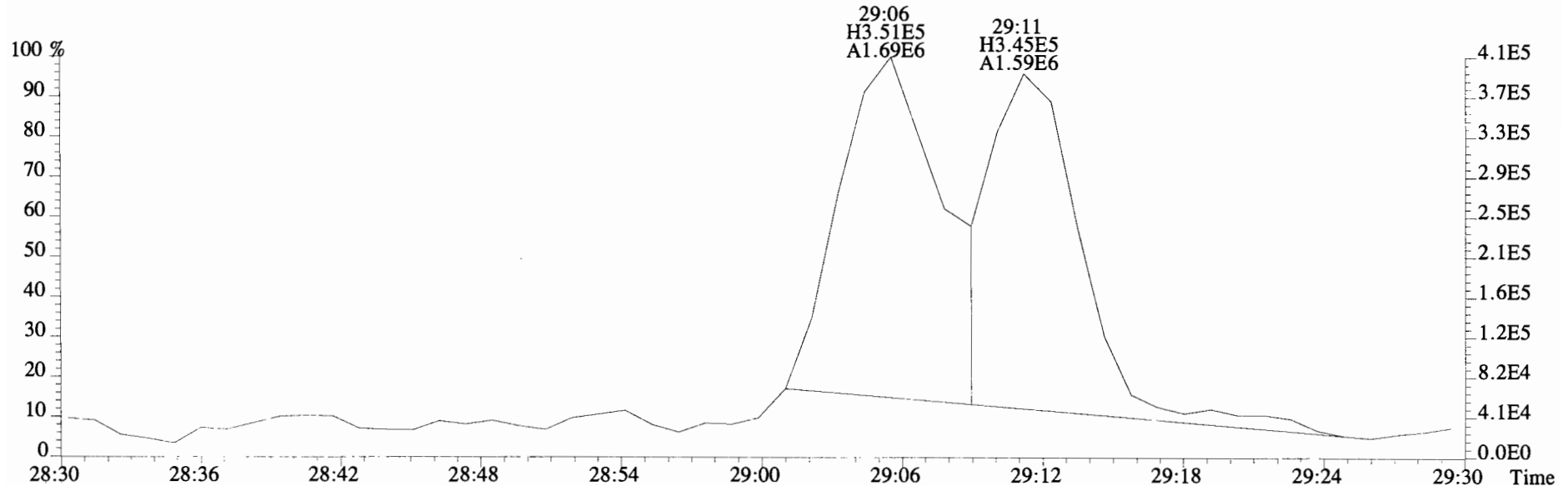
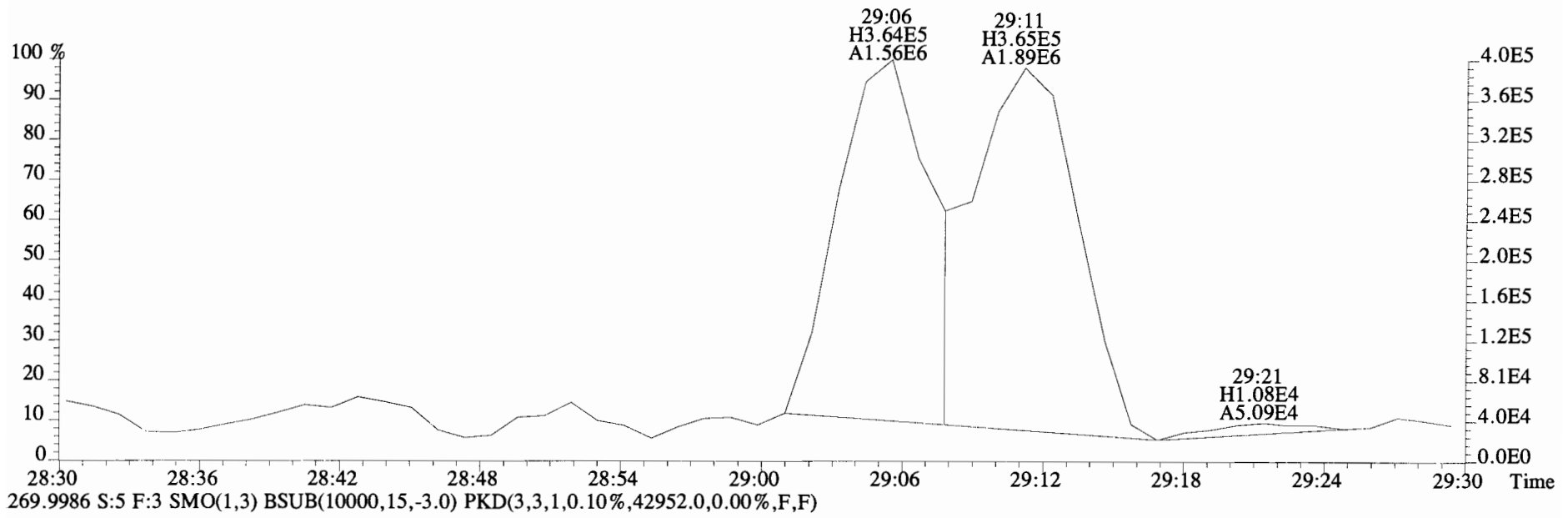




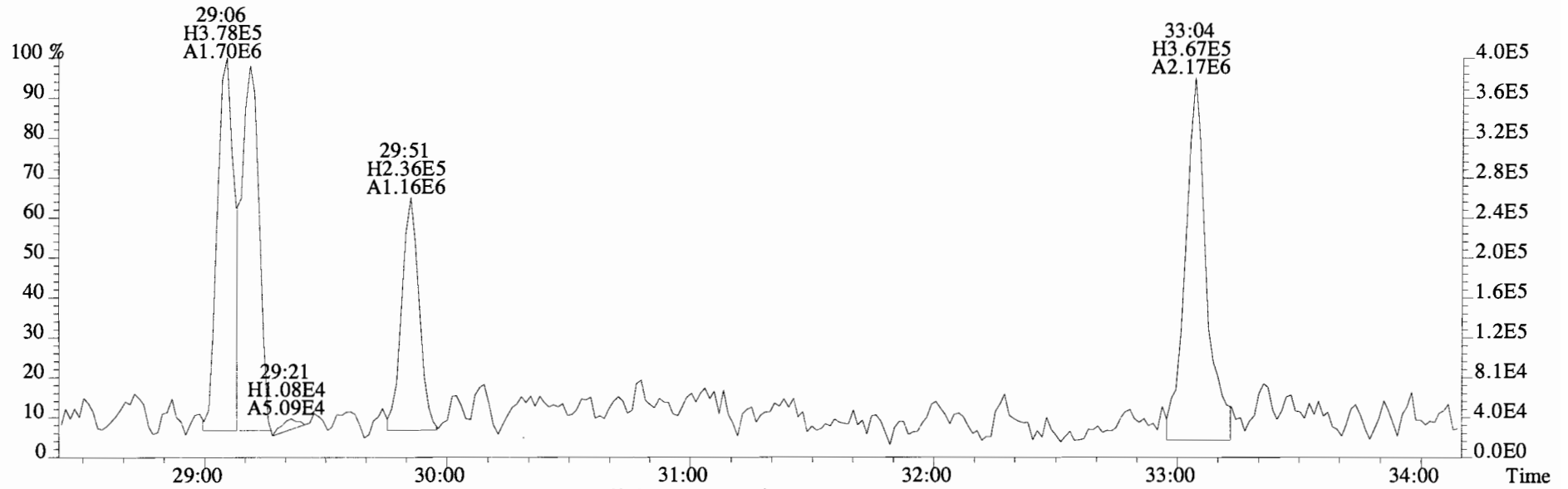
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



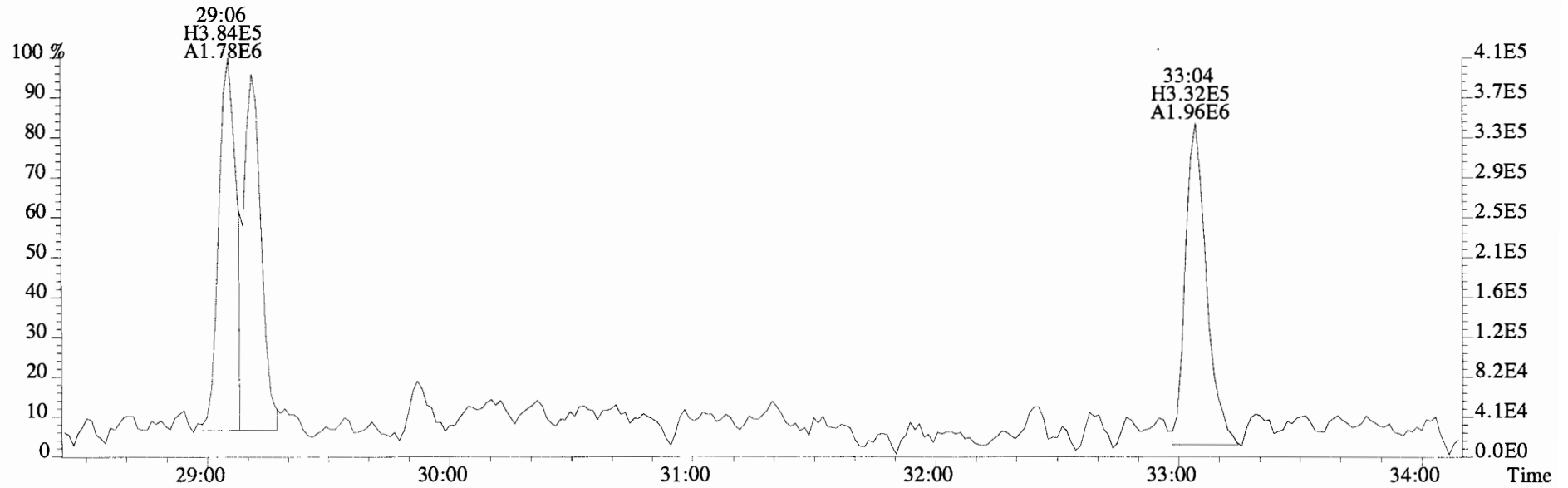
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,54536.0,0.00%,F,F)



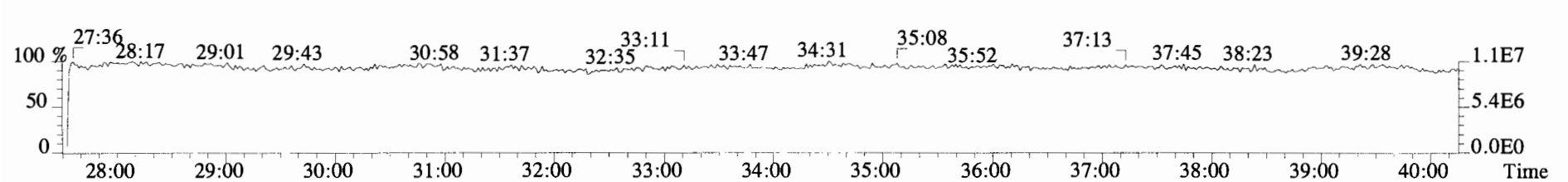
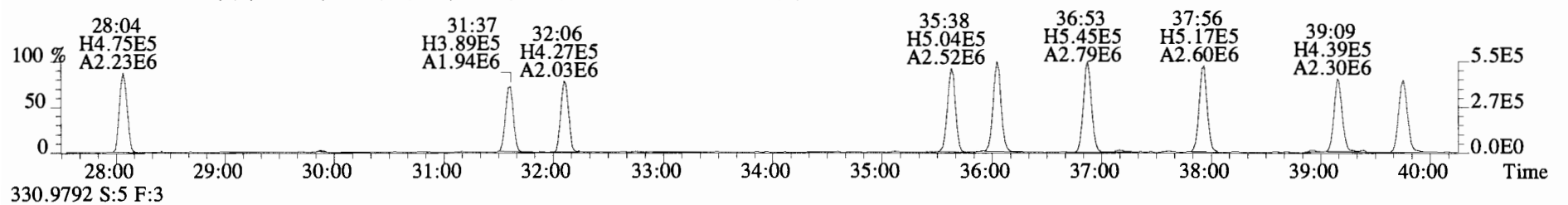
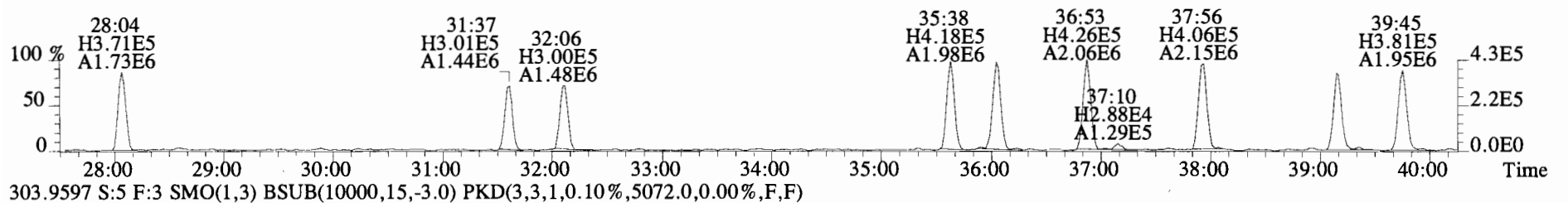
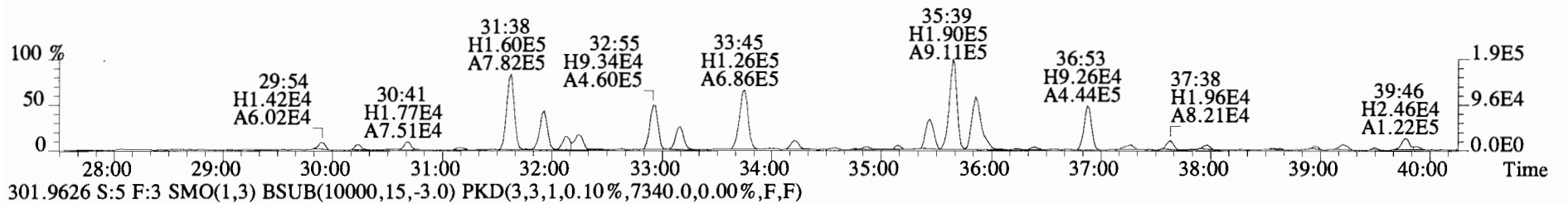
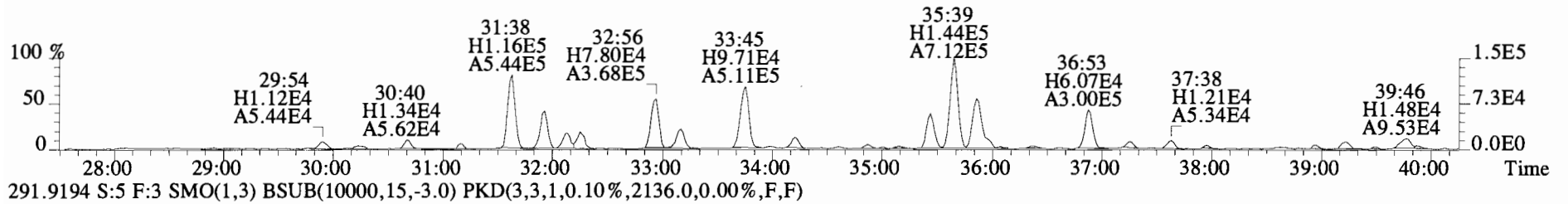
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,54536.0,0.00%,F,F)



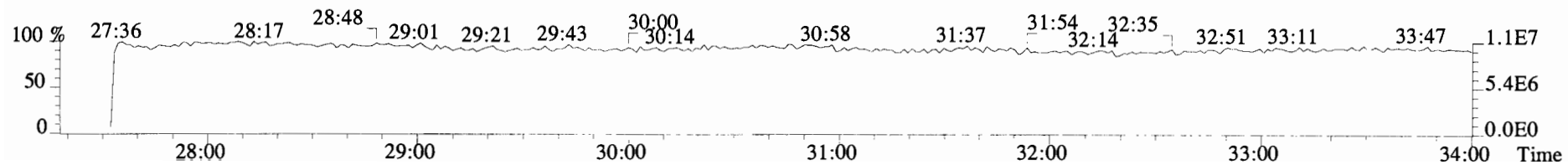
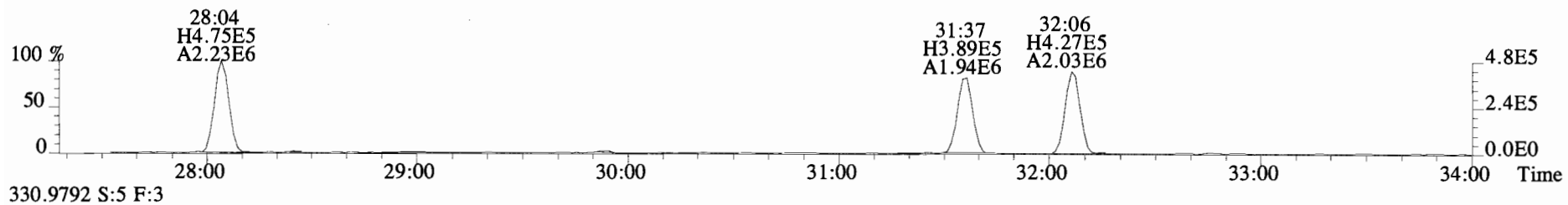
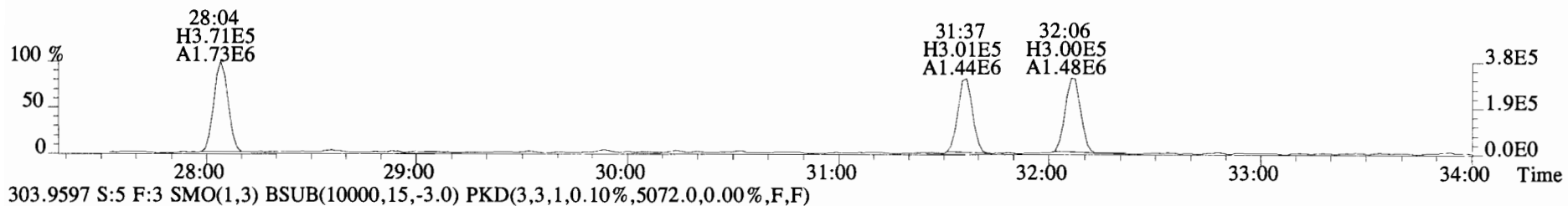
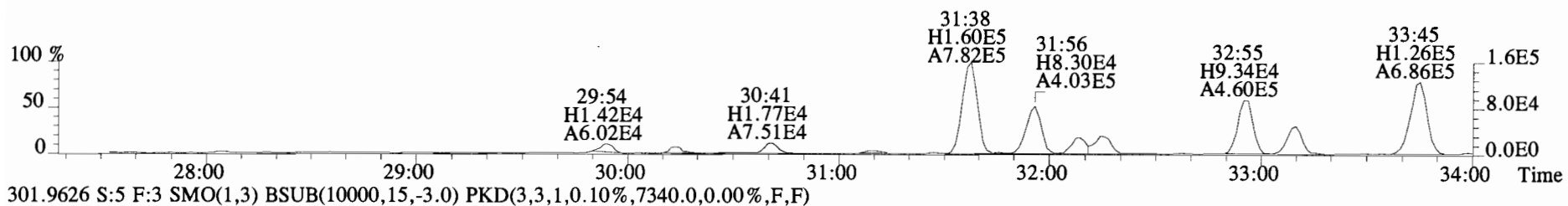
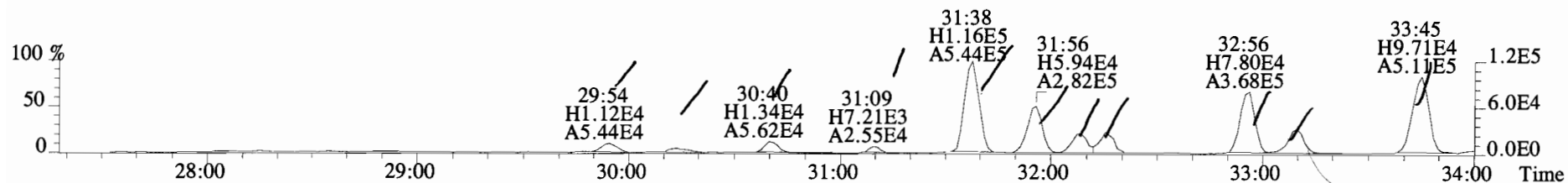
269.9986 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,42952.0,0.00%,F,F)



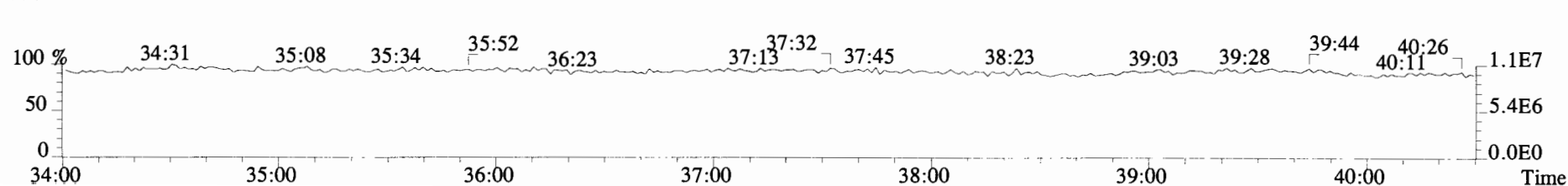
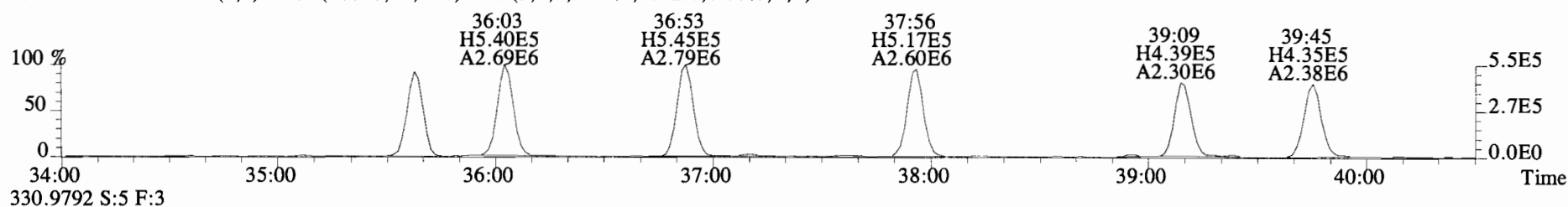
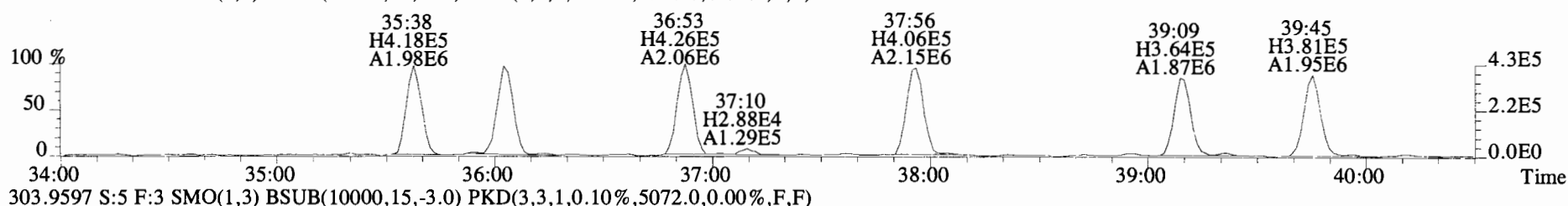
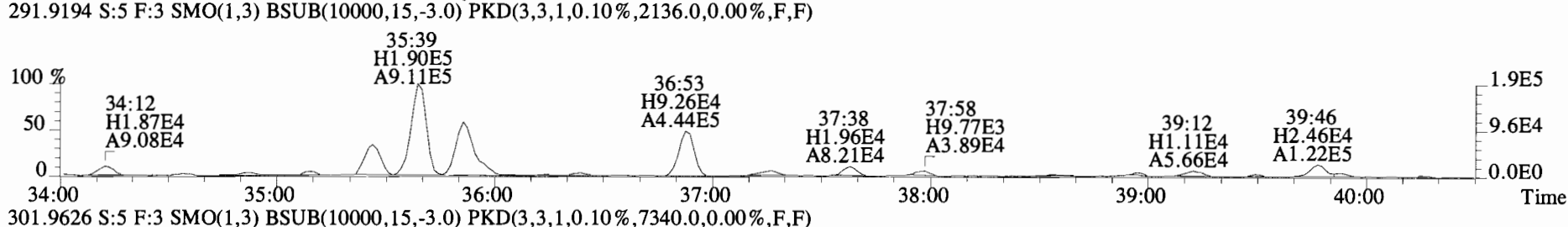
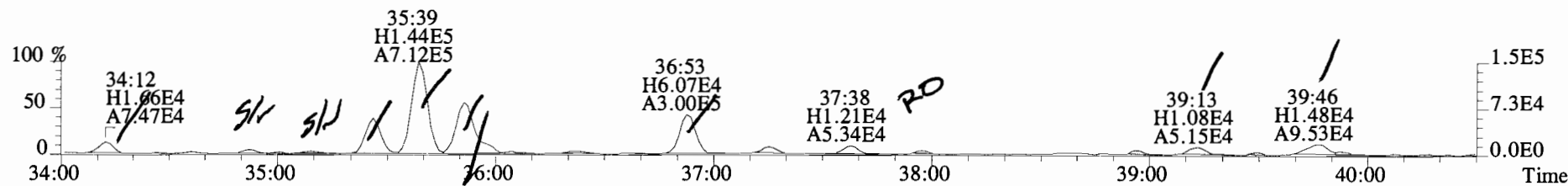
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



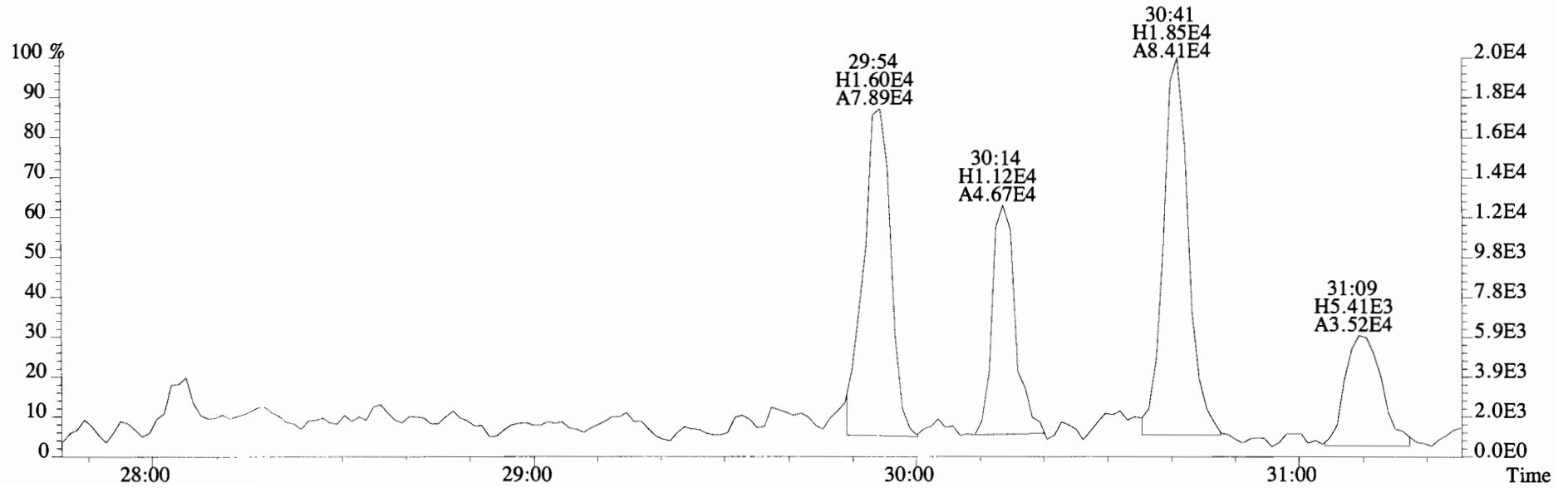
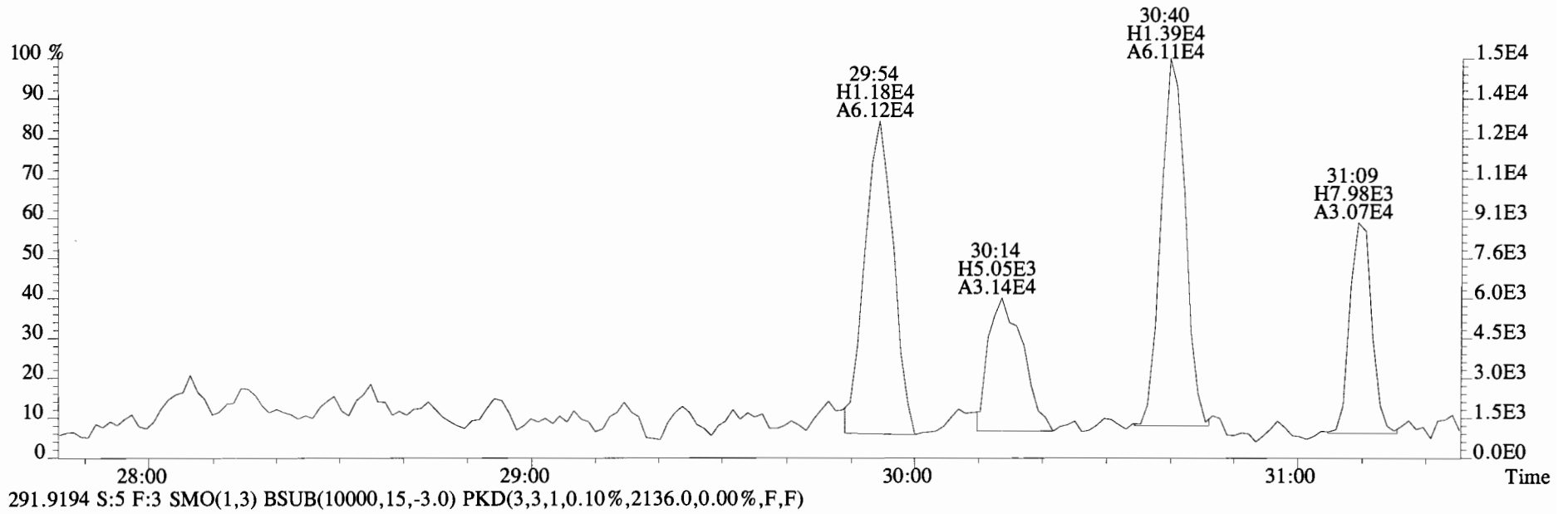
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



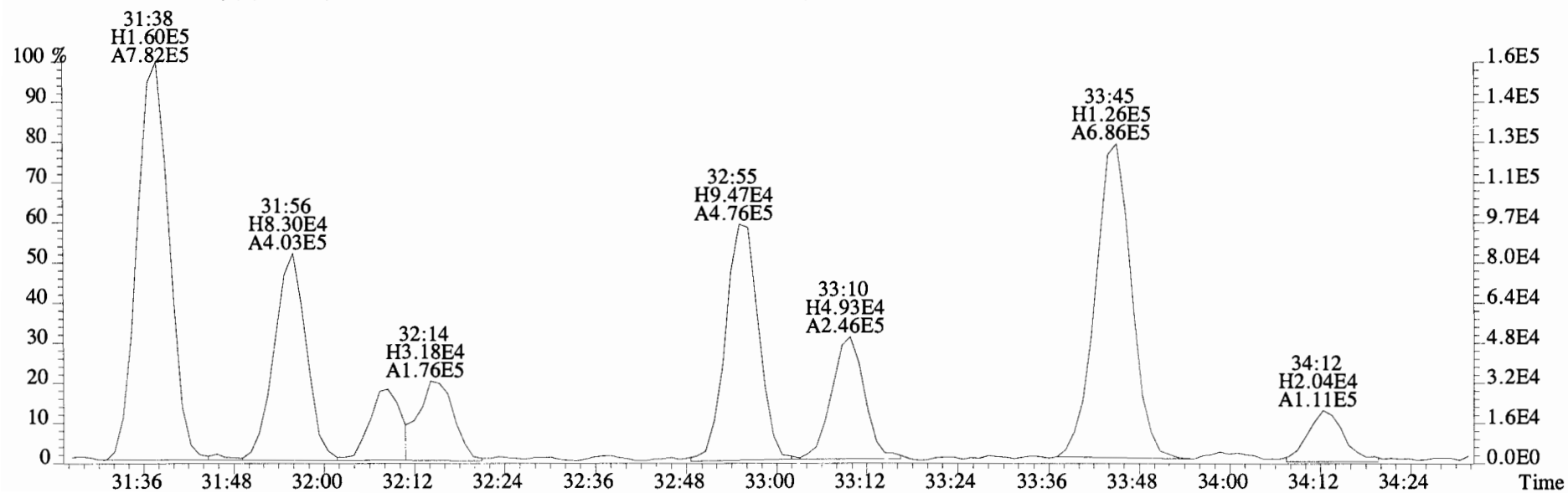
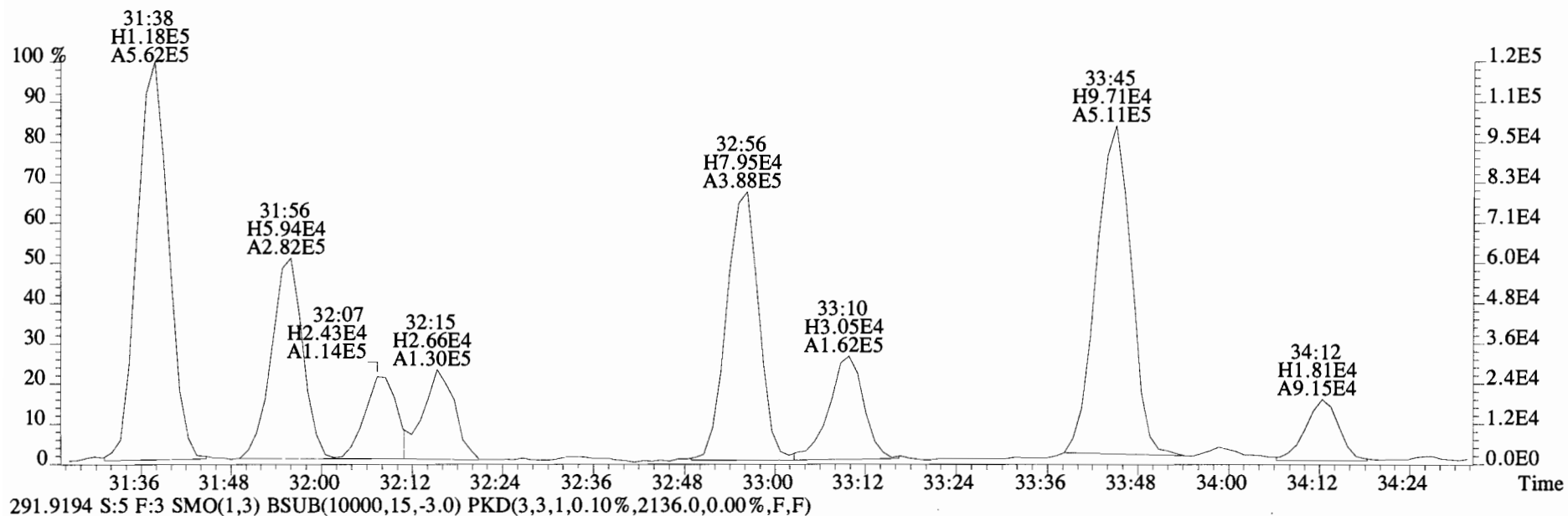
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)

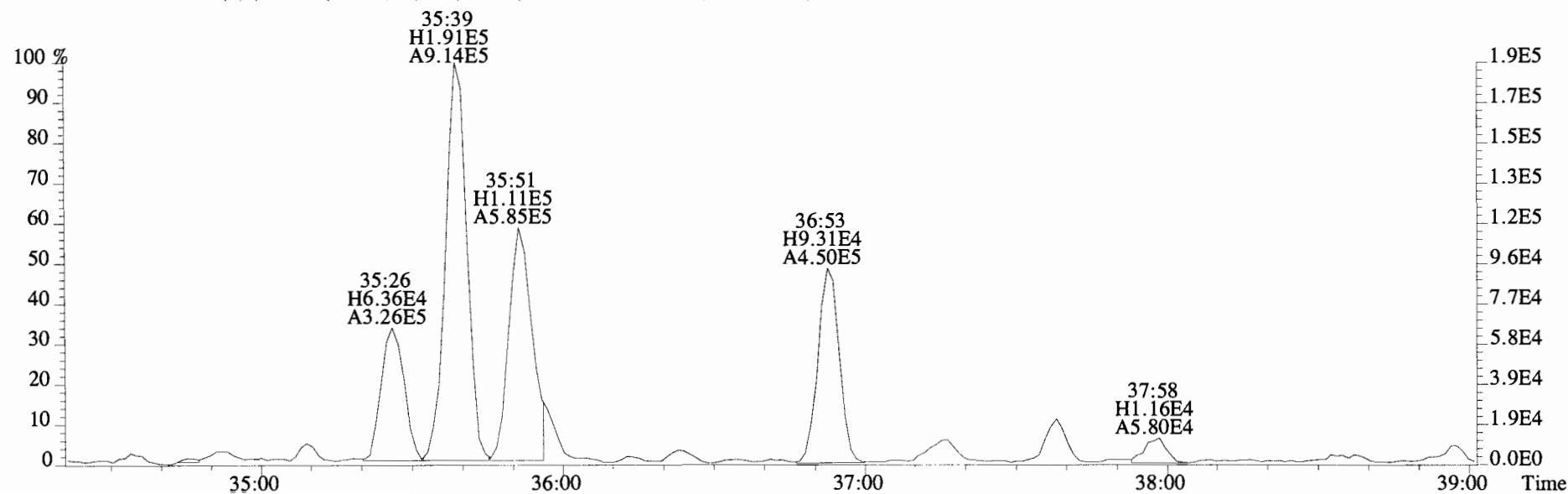
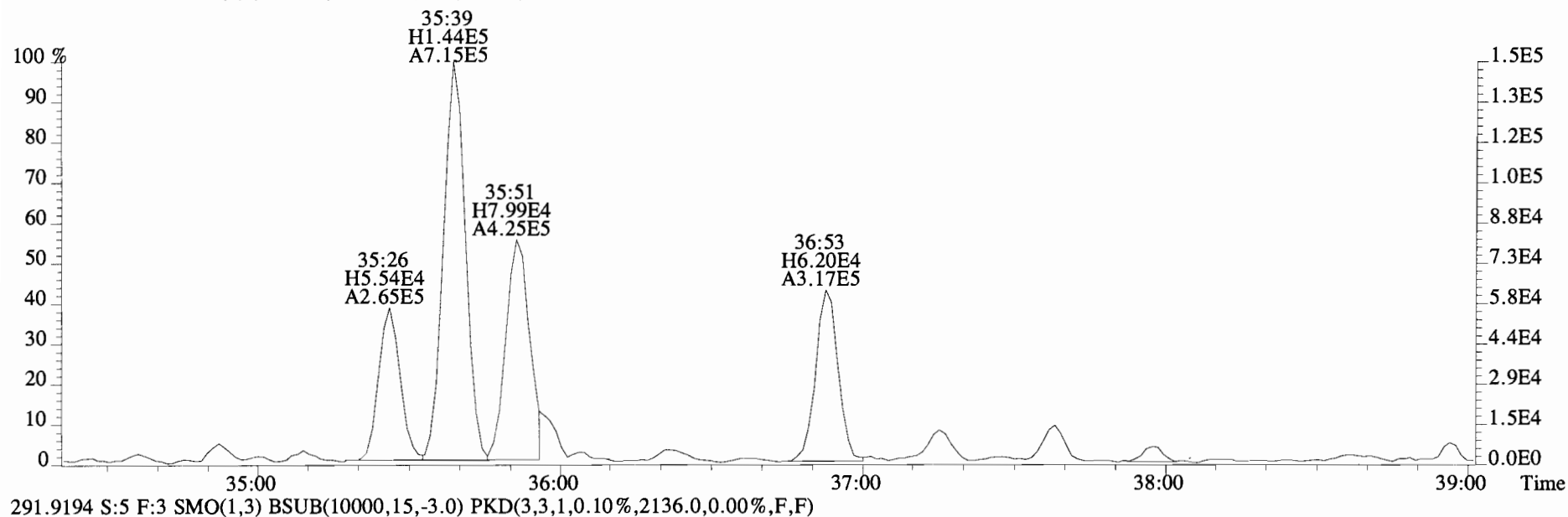


File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)

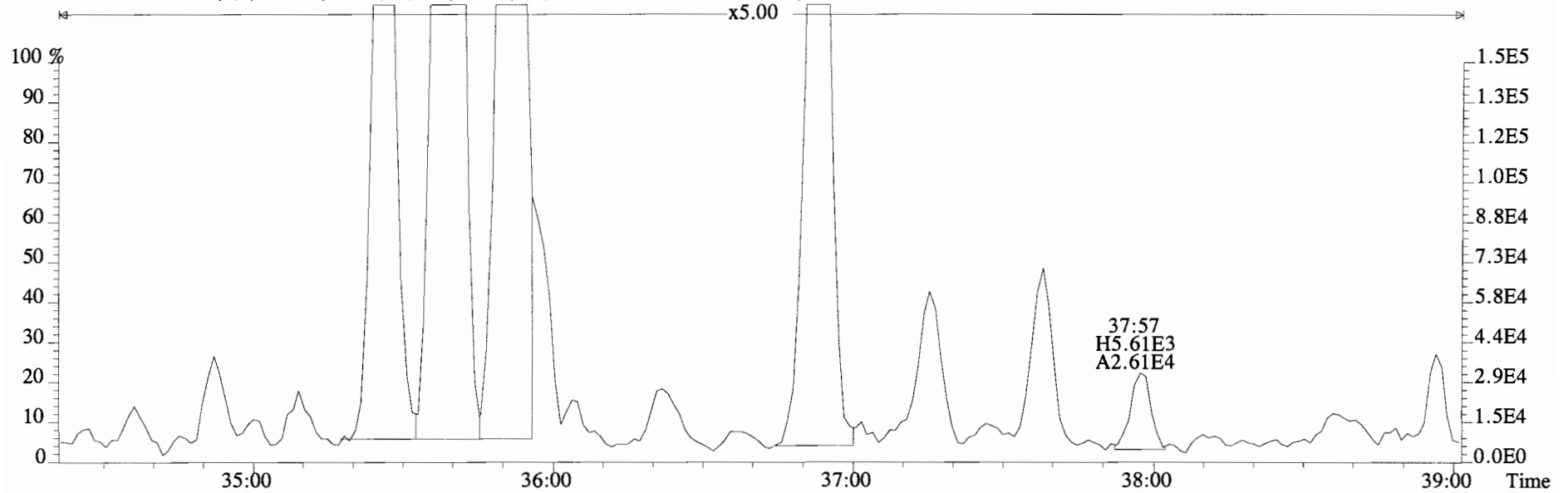




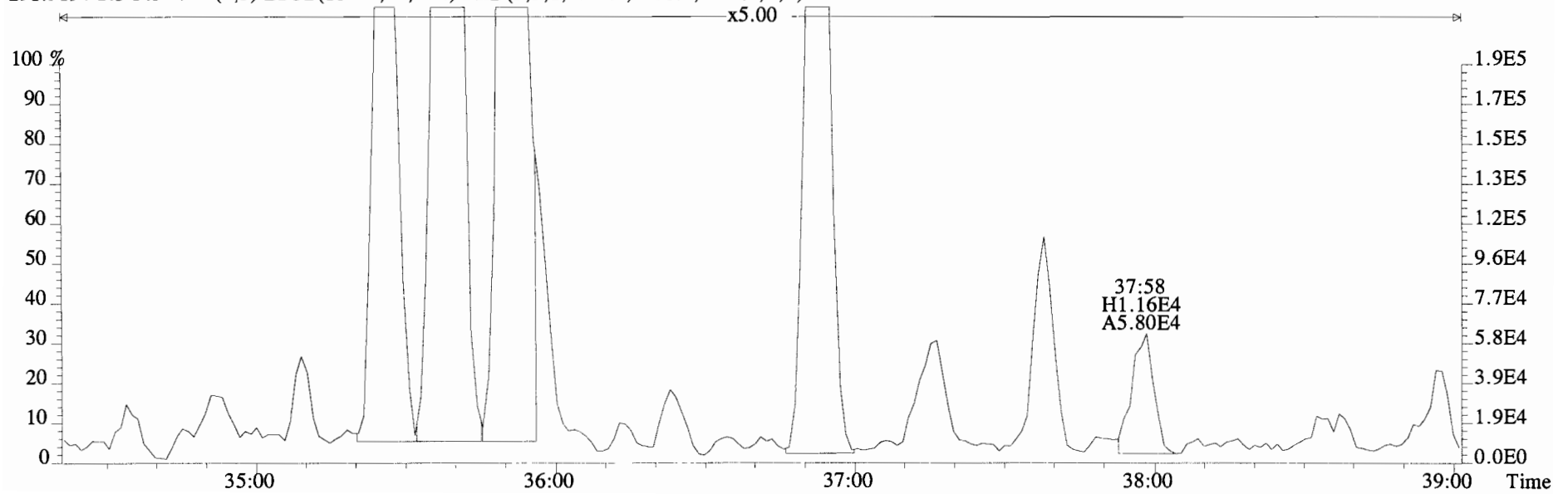
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



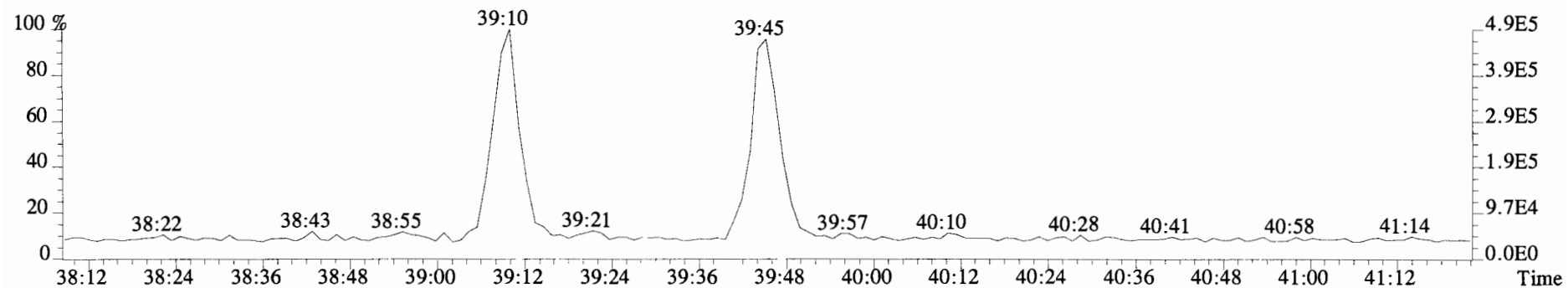
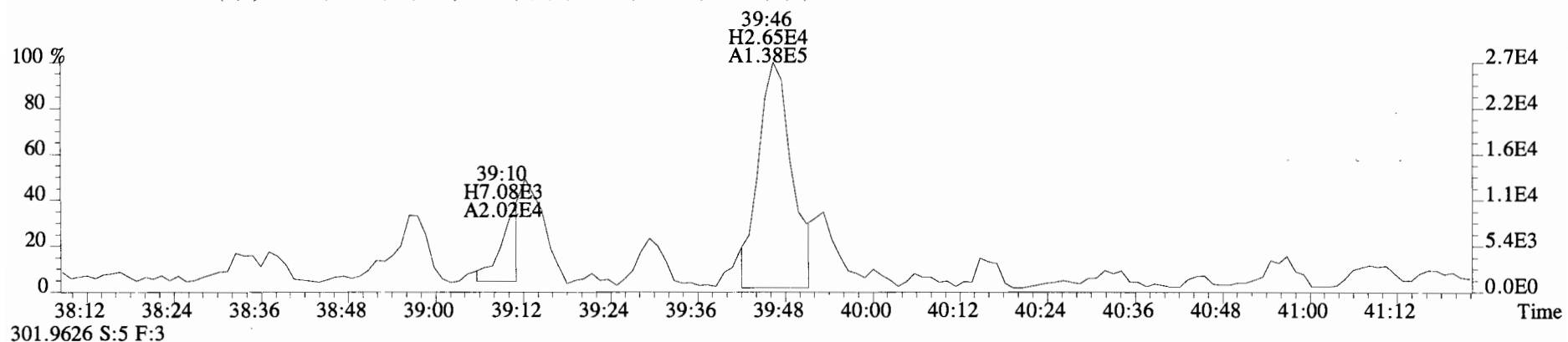
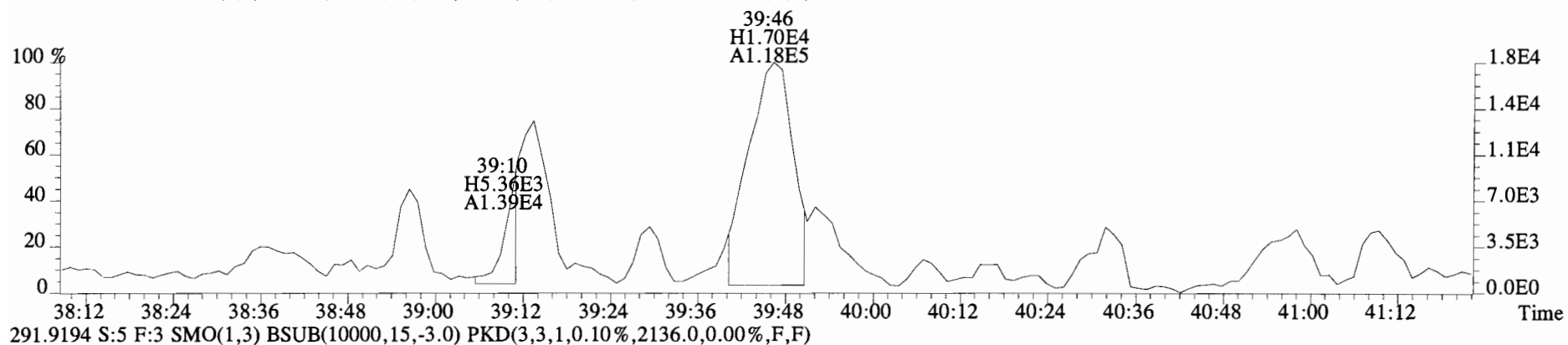
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



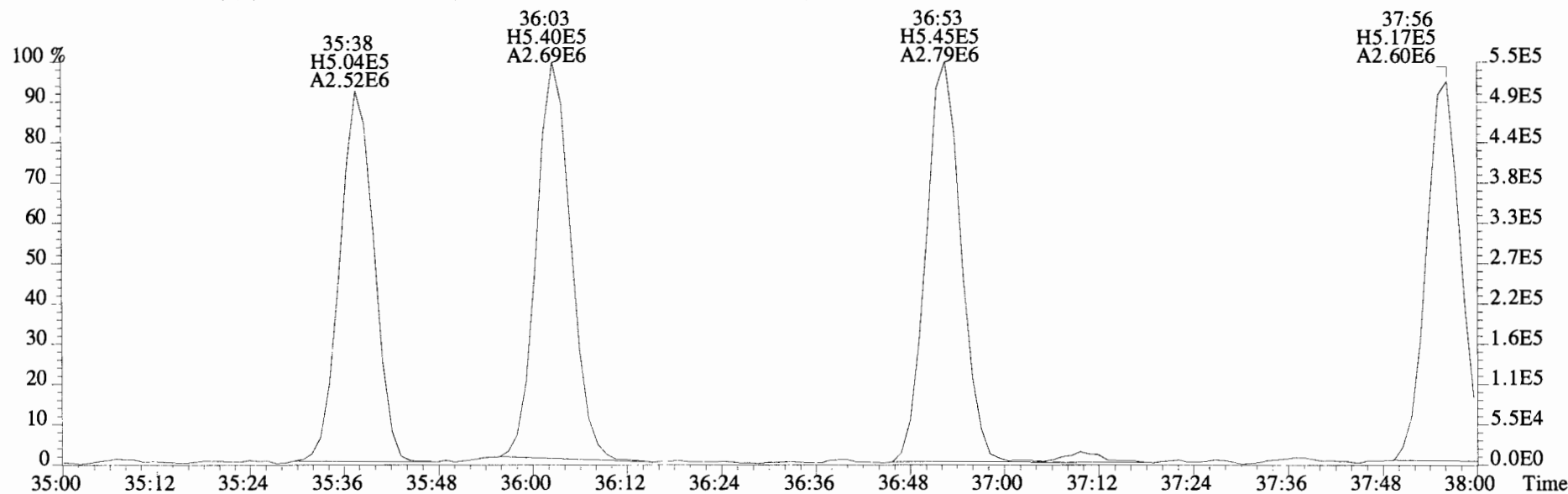
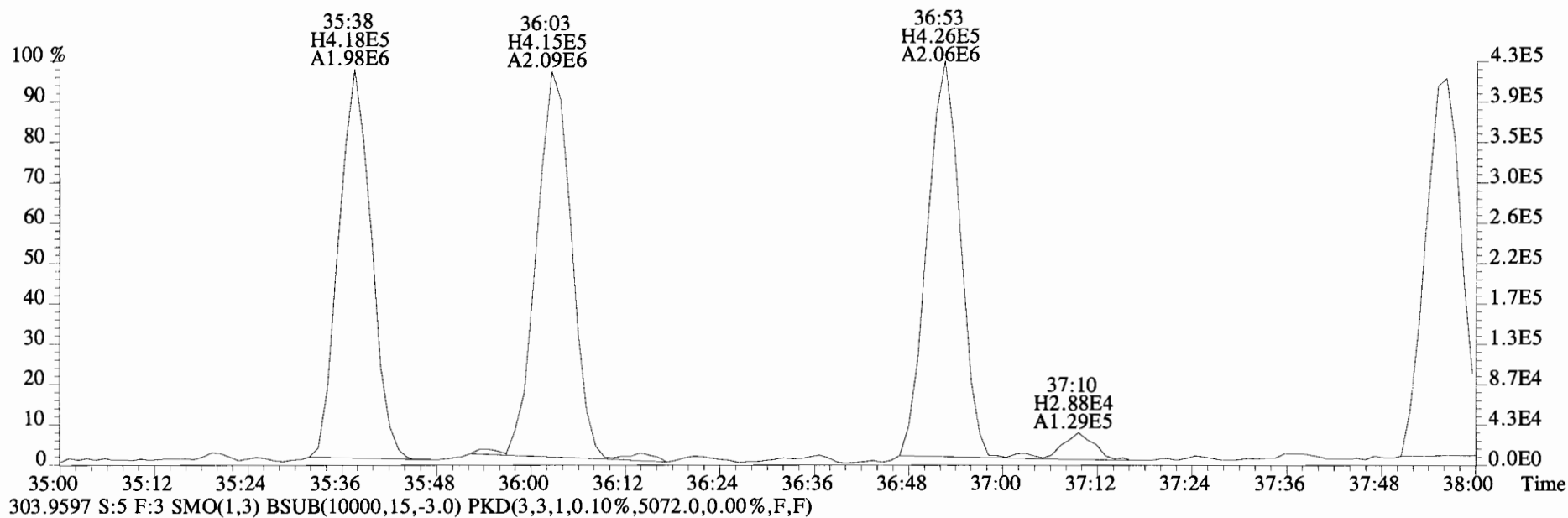
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2136.0,0.00%,F,F)



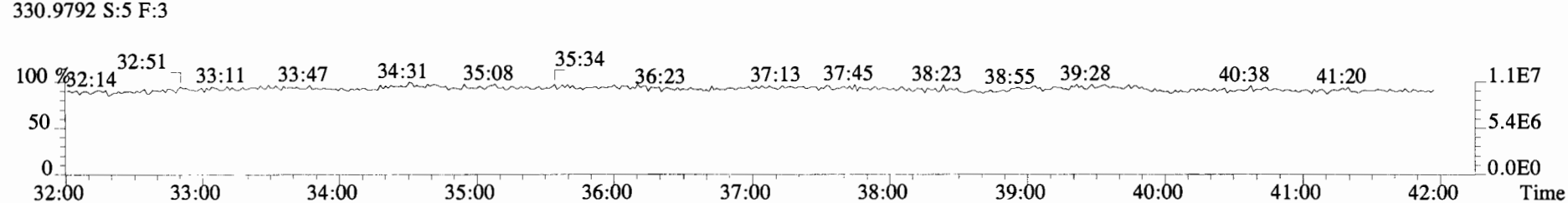
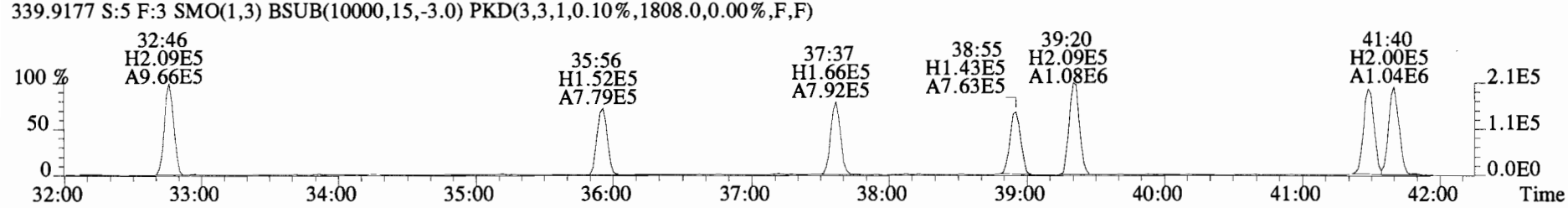
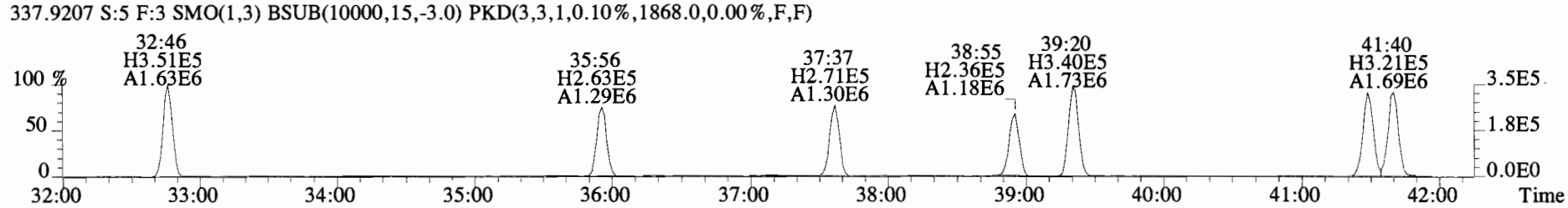
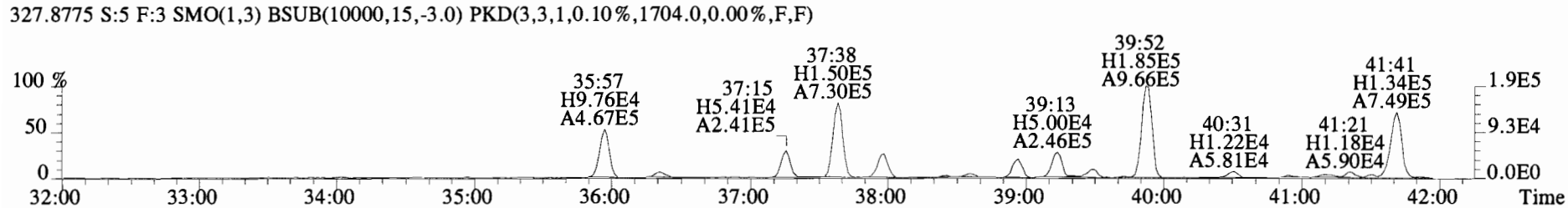
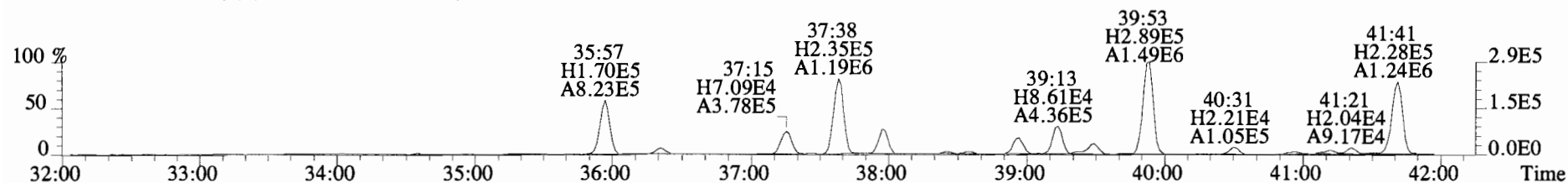
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



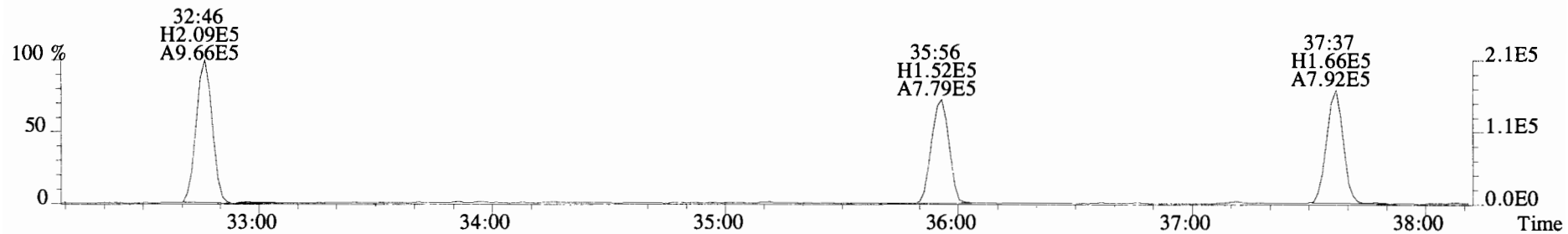
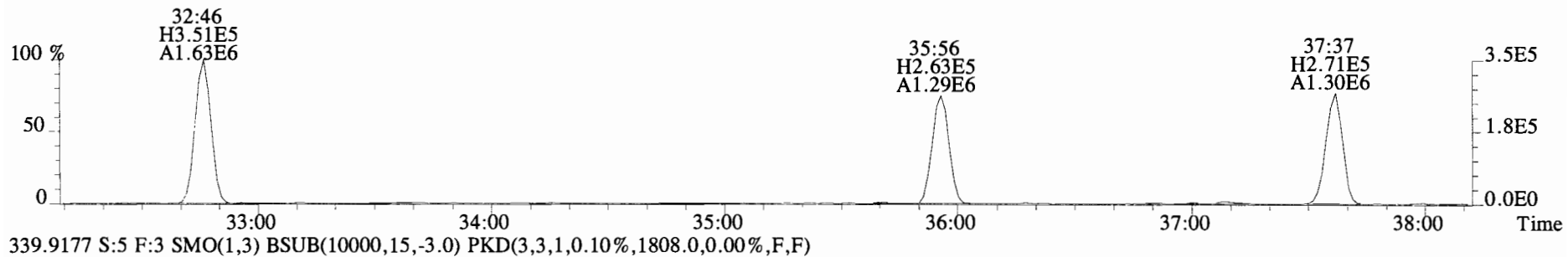
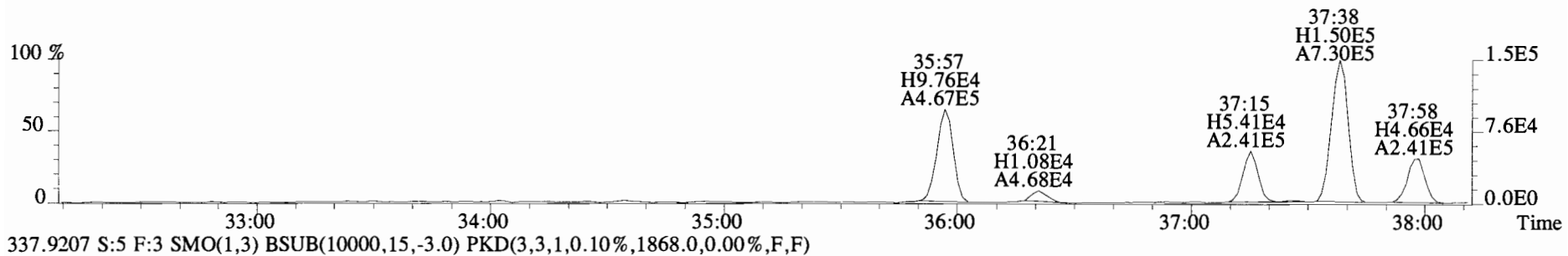
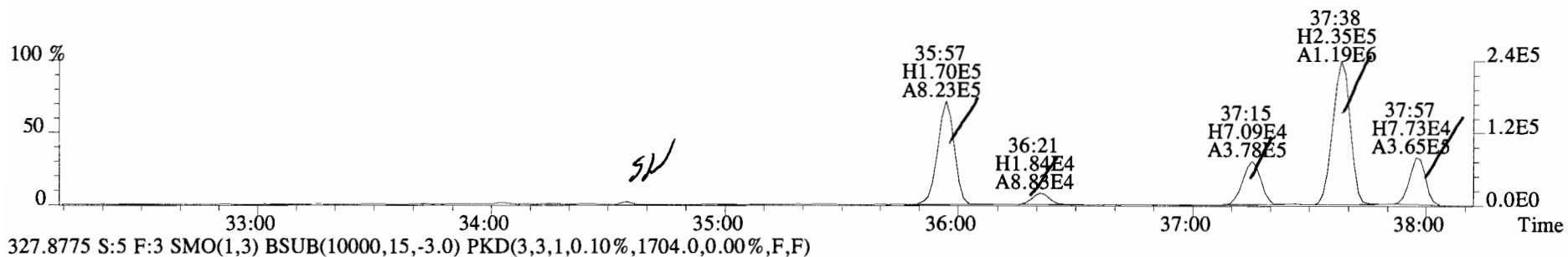
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7340.0,0.00%,F,F)



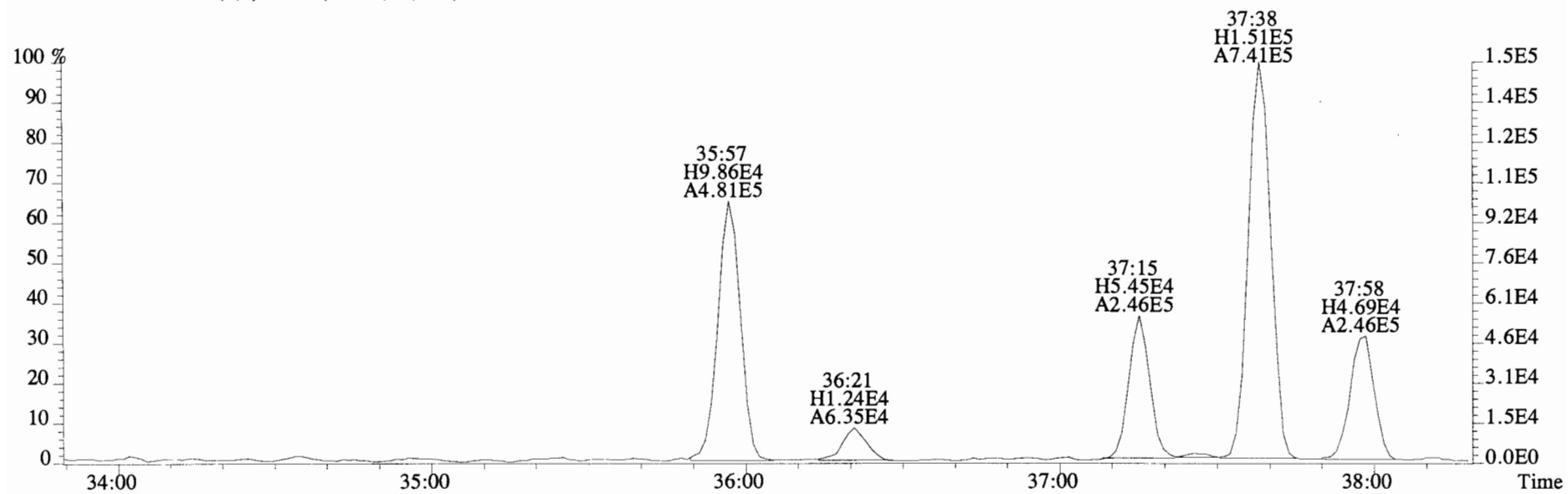
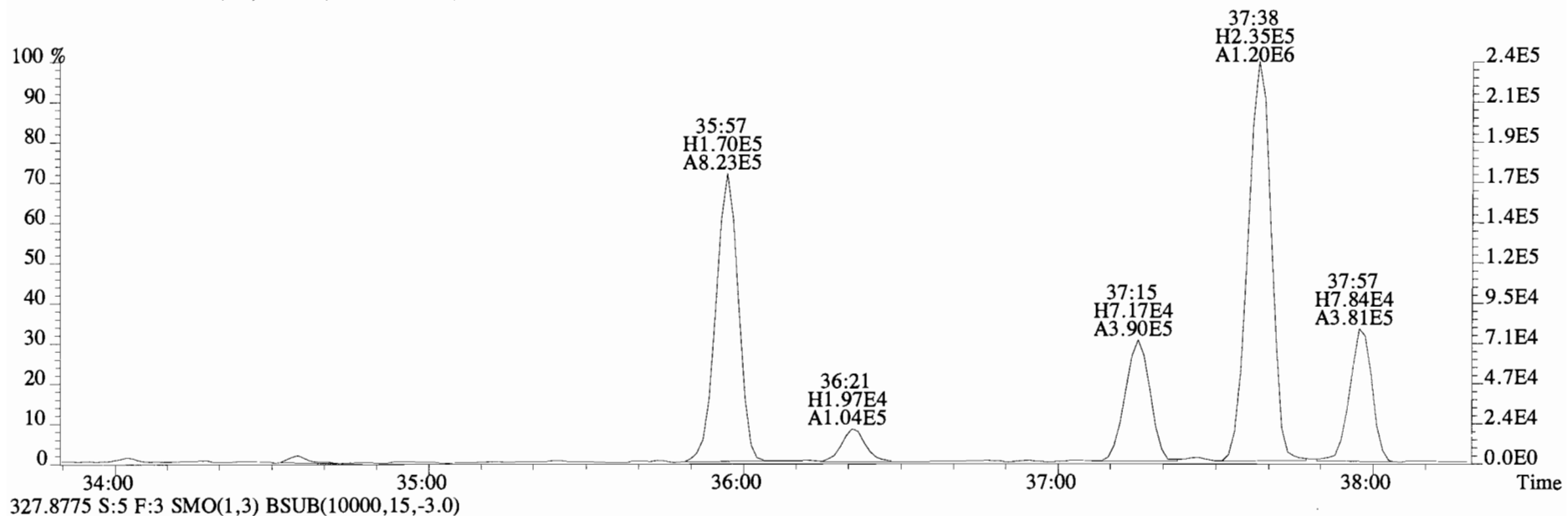
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



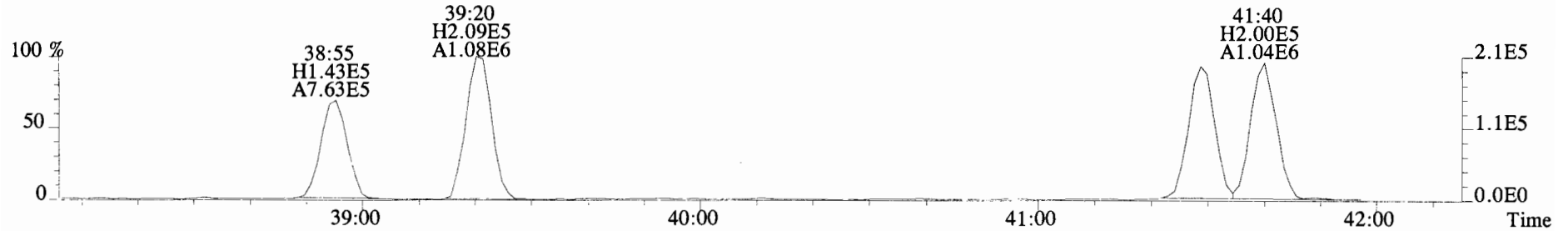
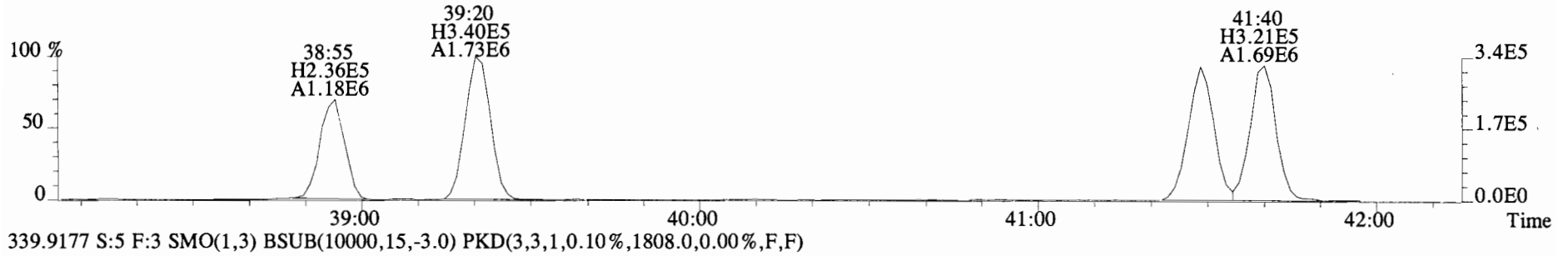
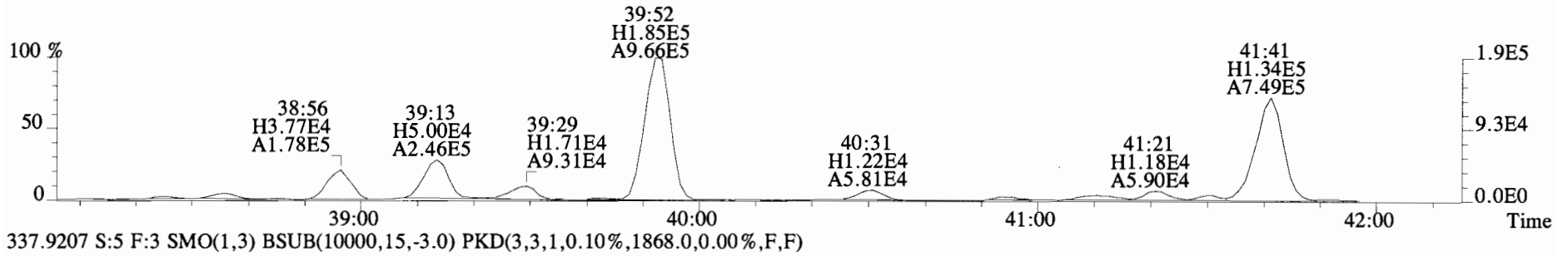
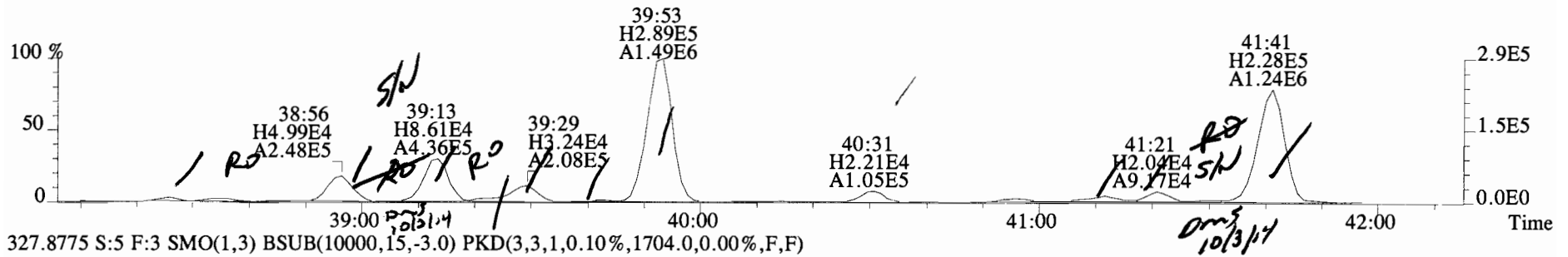
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)

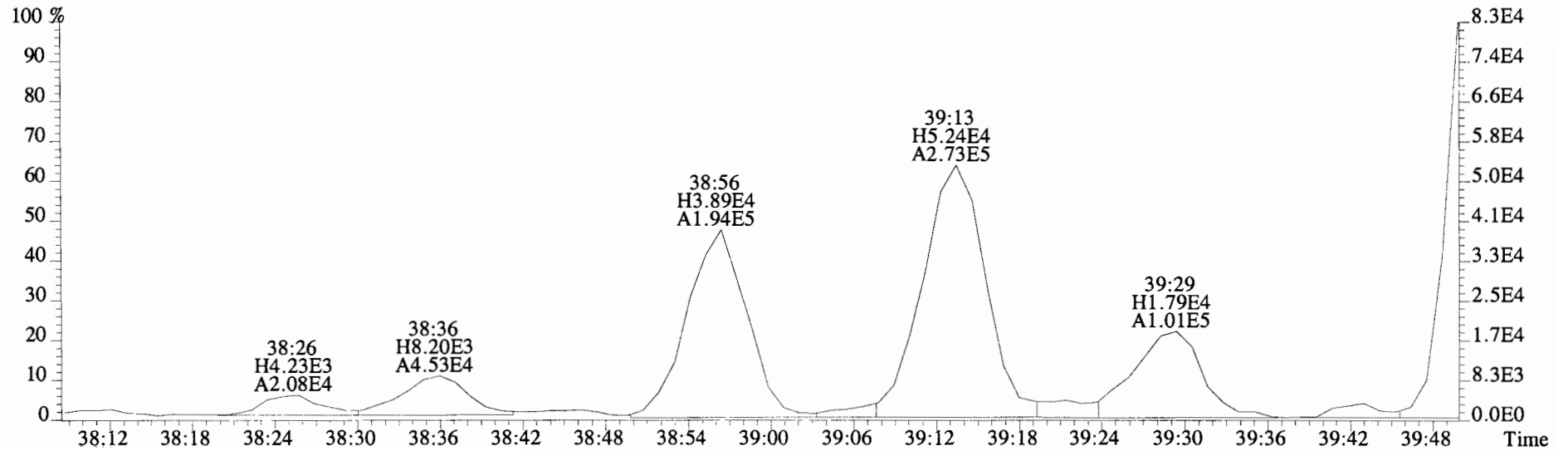
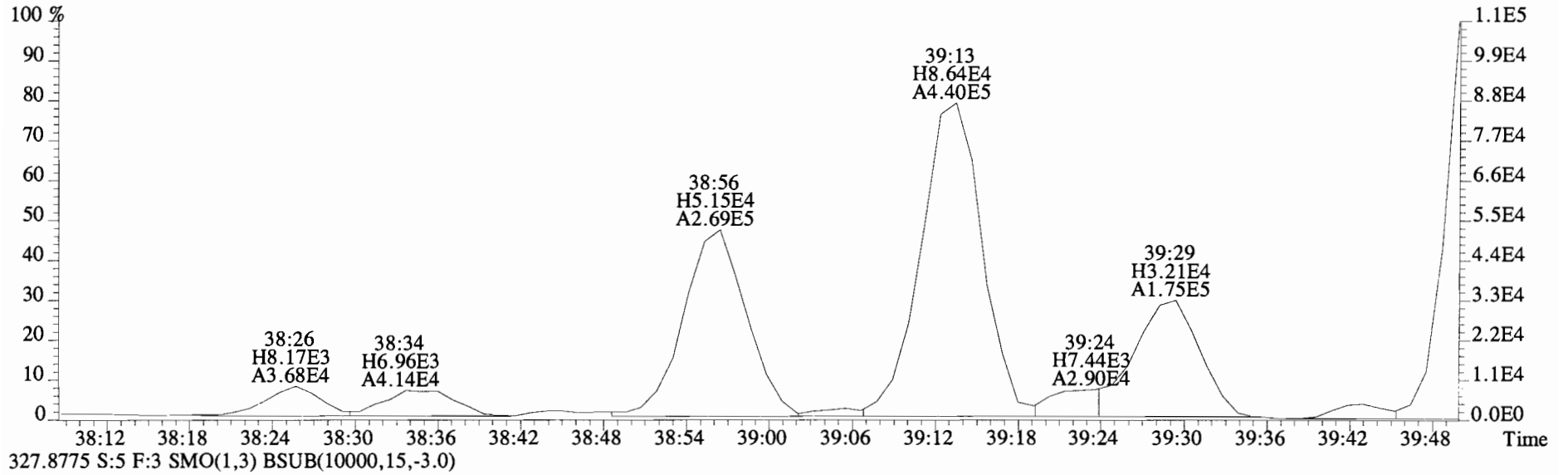


File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)

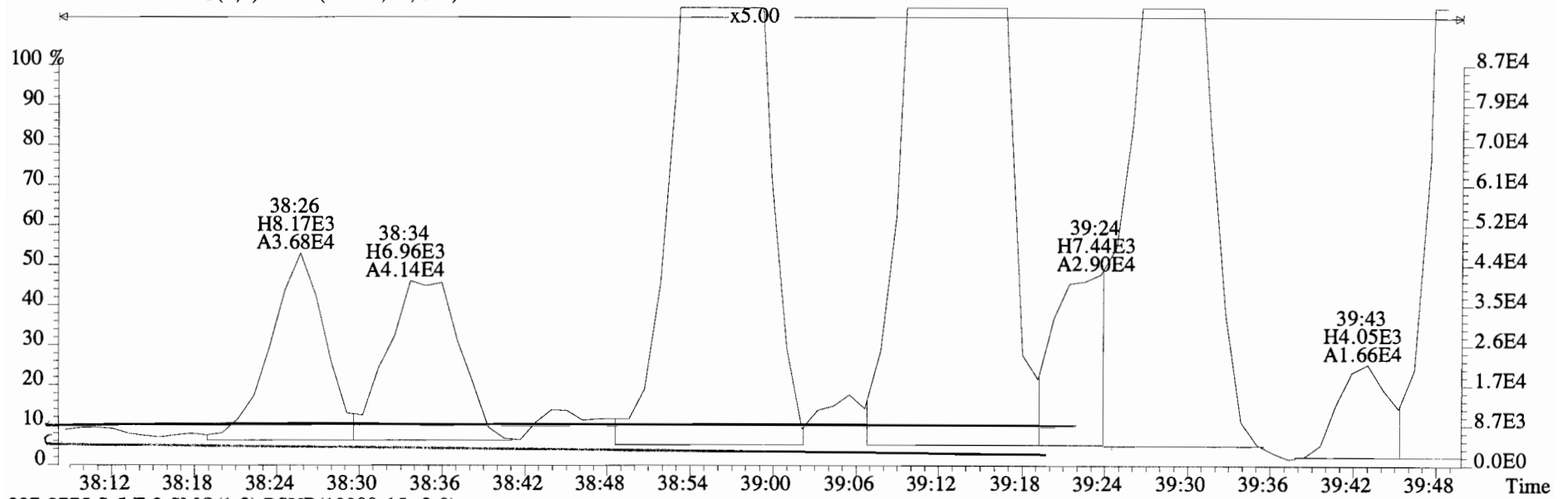




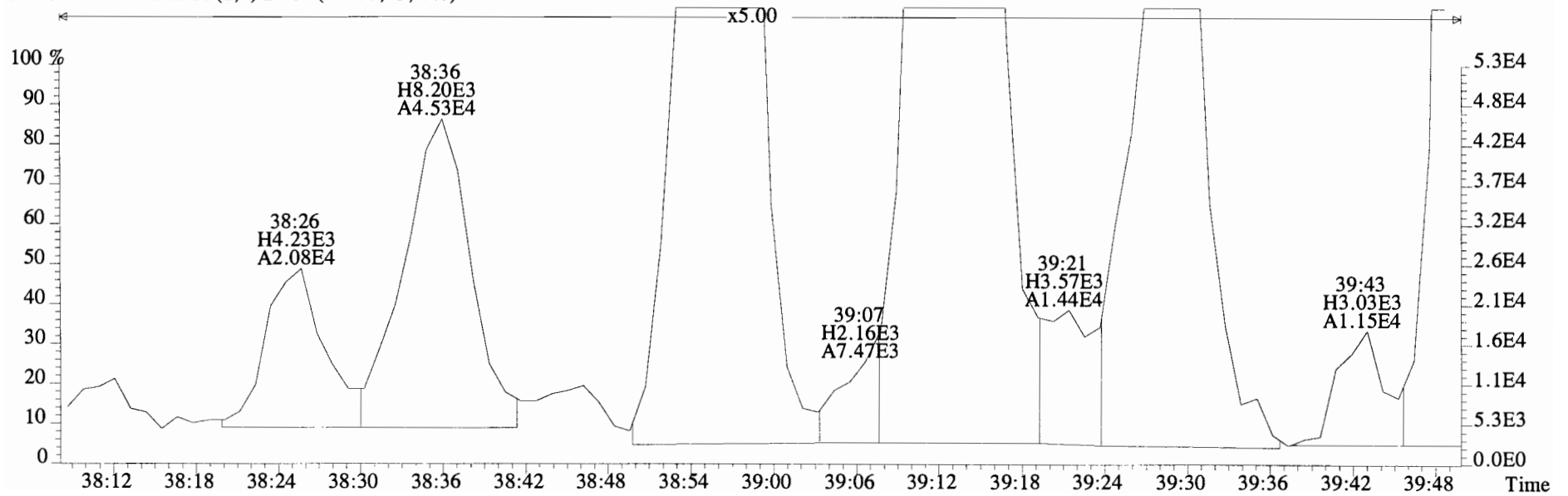
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



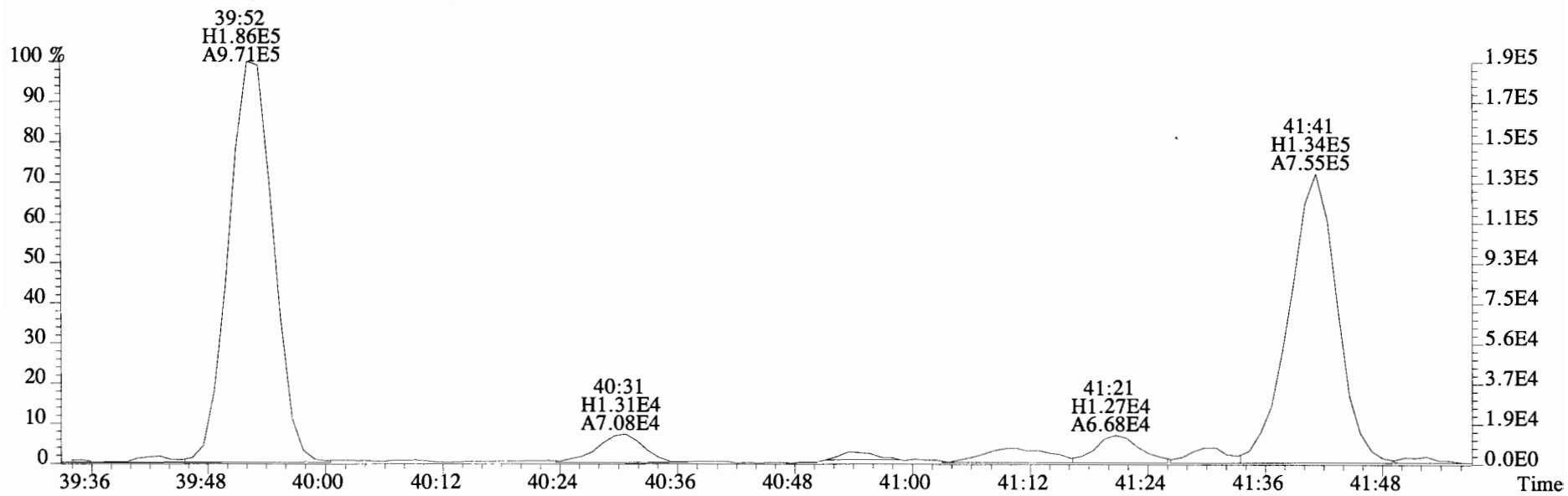
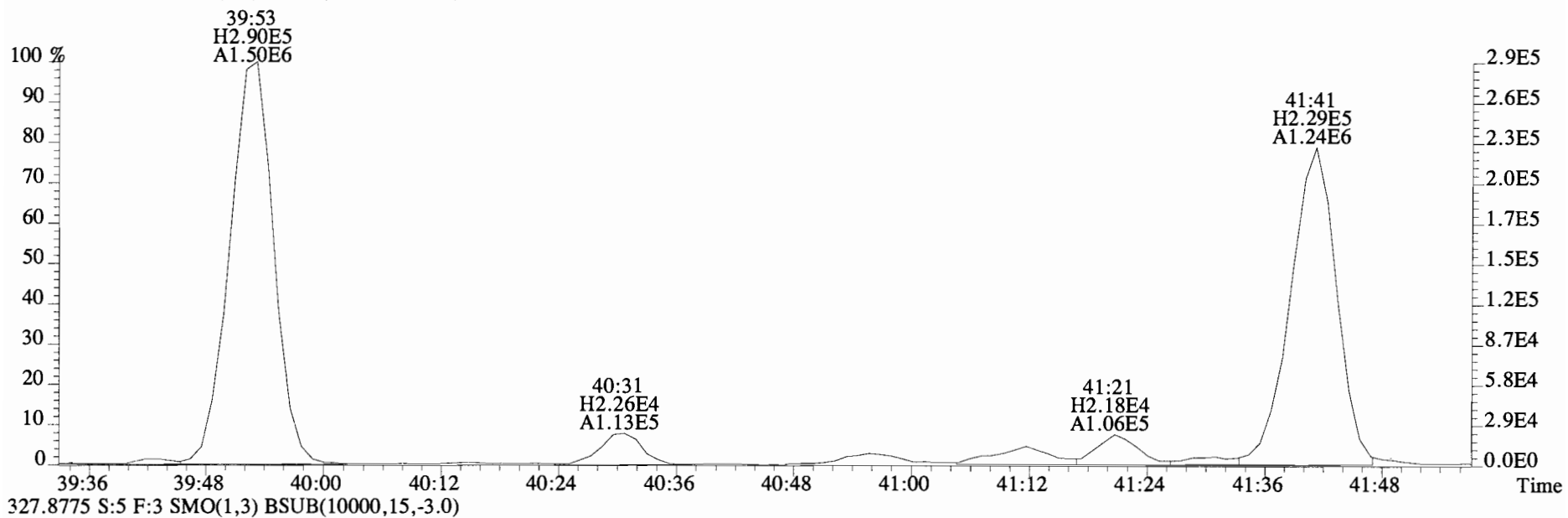
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
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 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



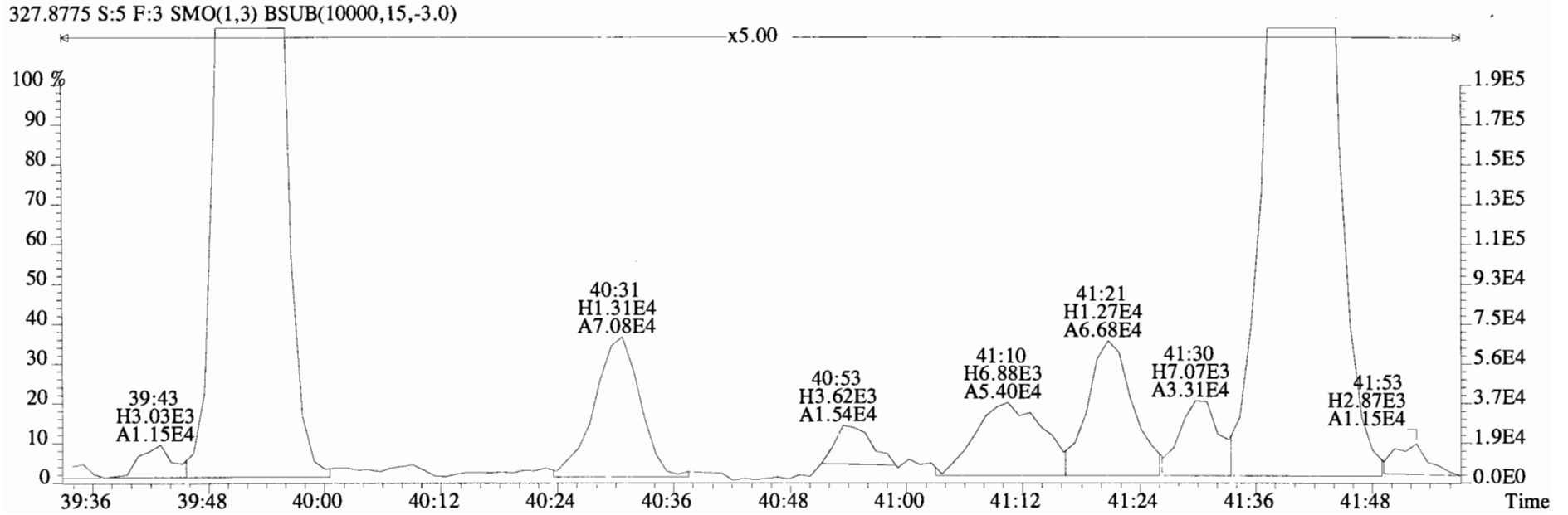
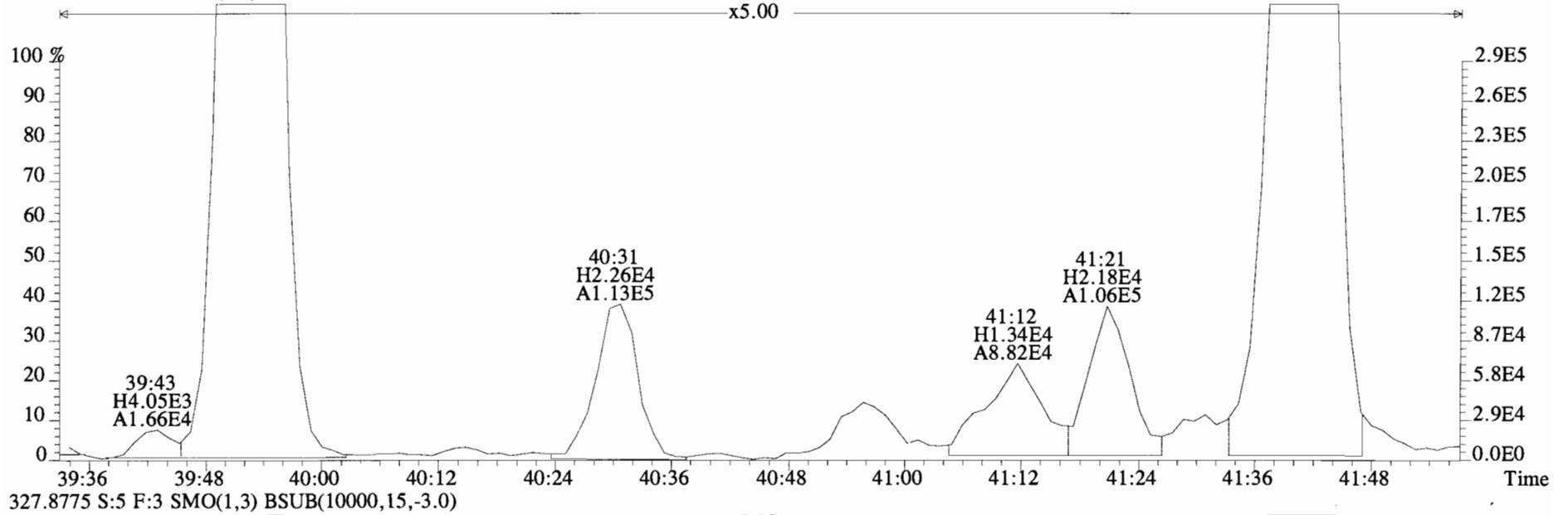
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



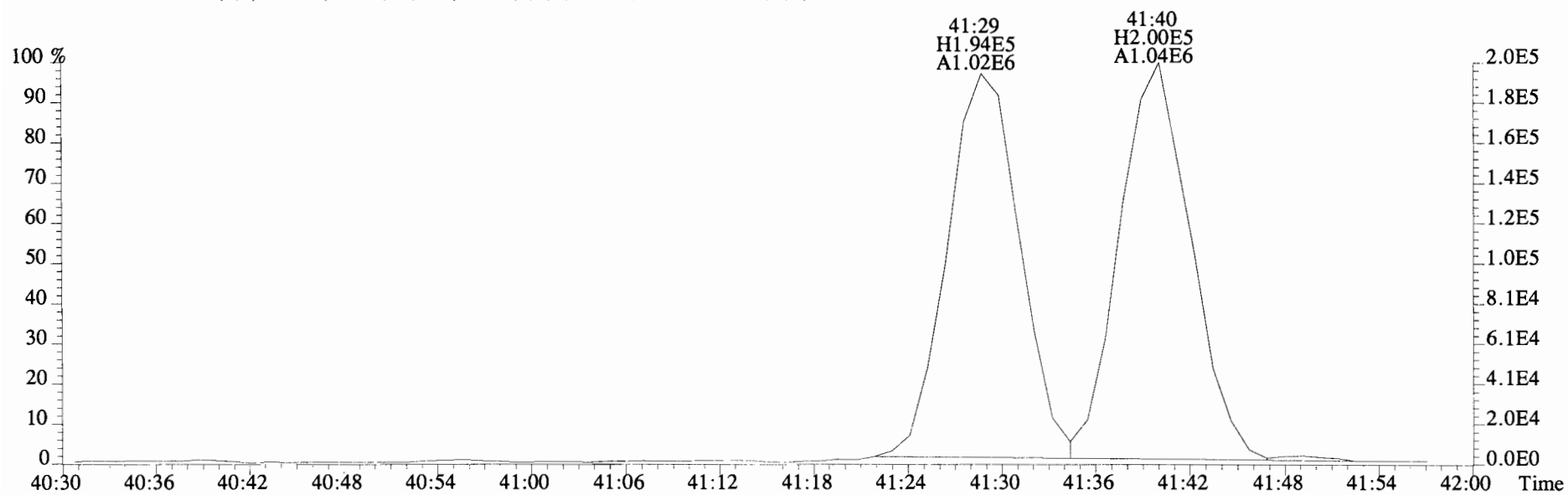
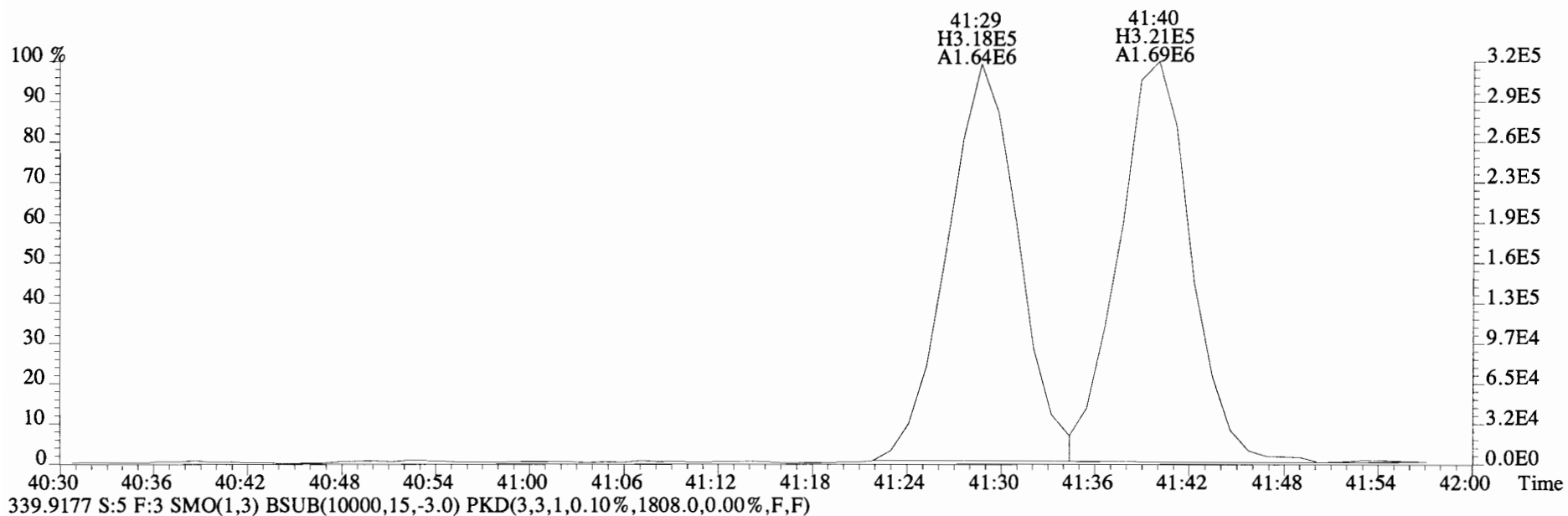
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



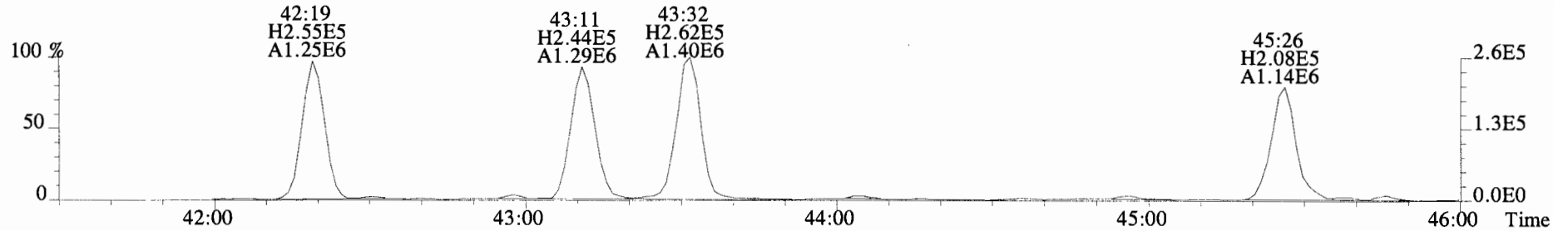
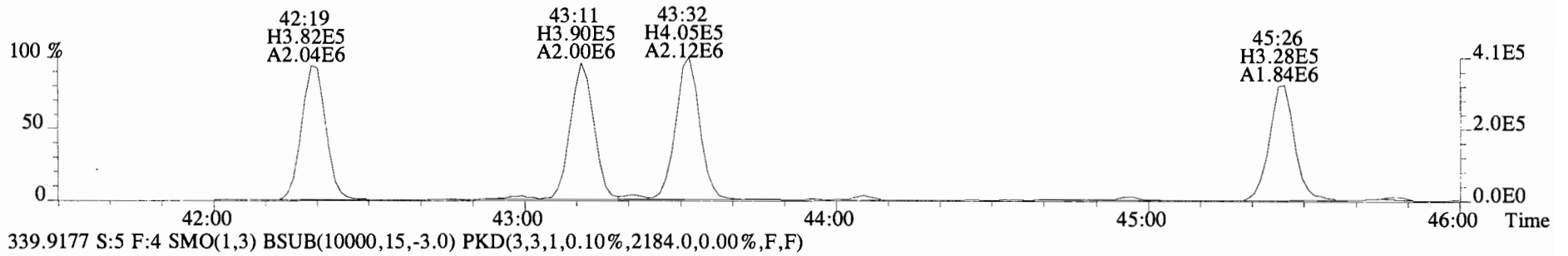
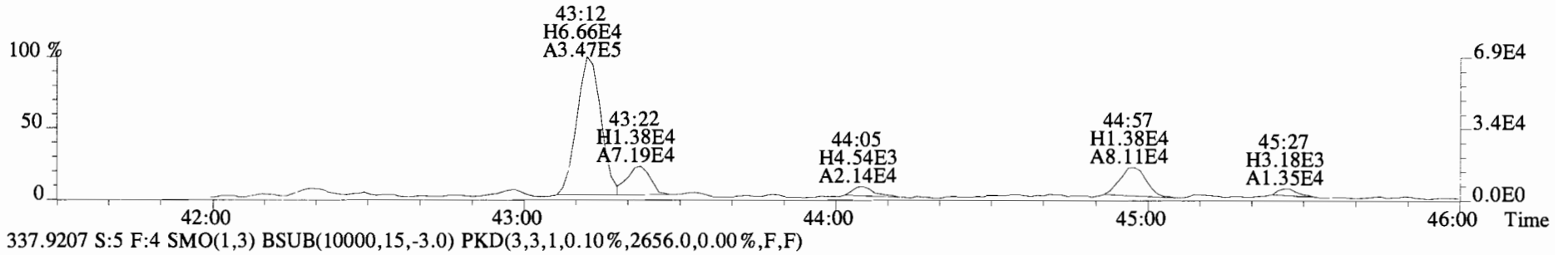
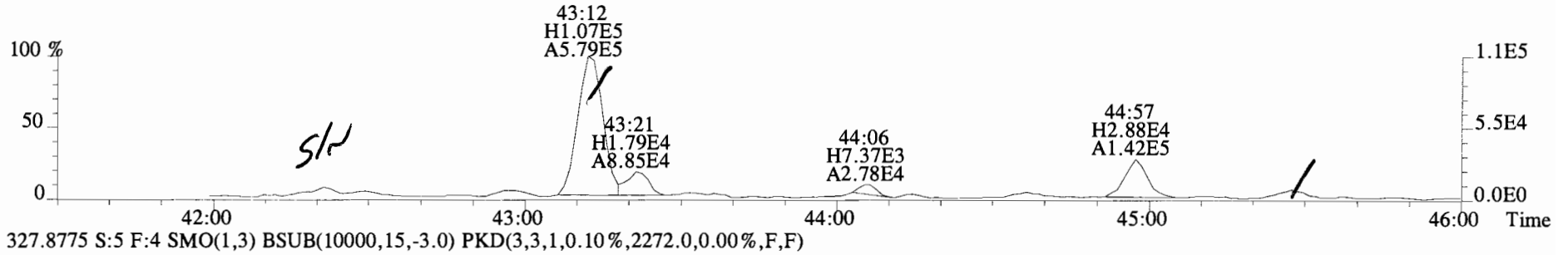
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 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



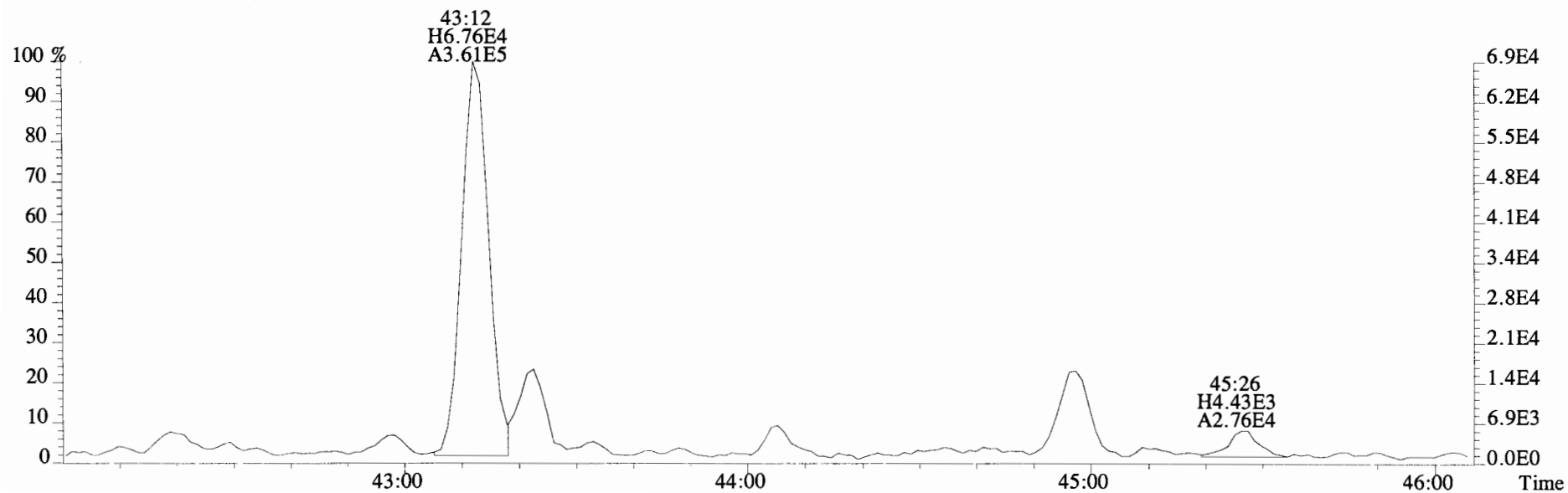
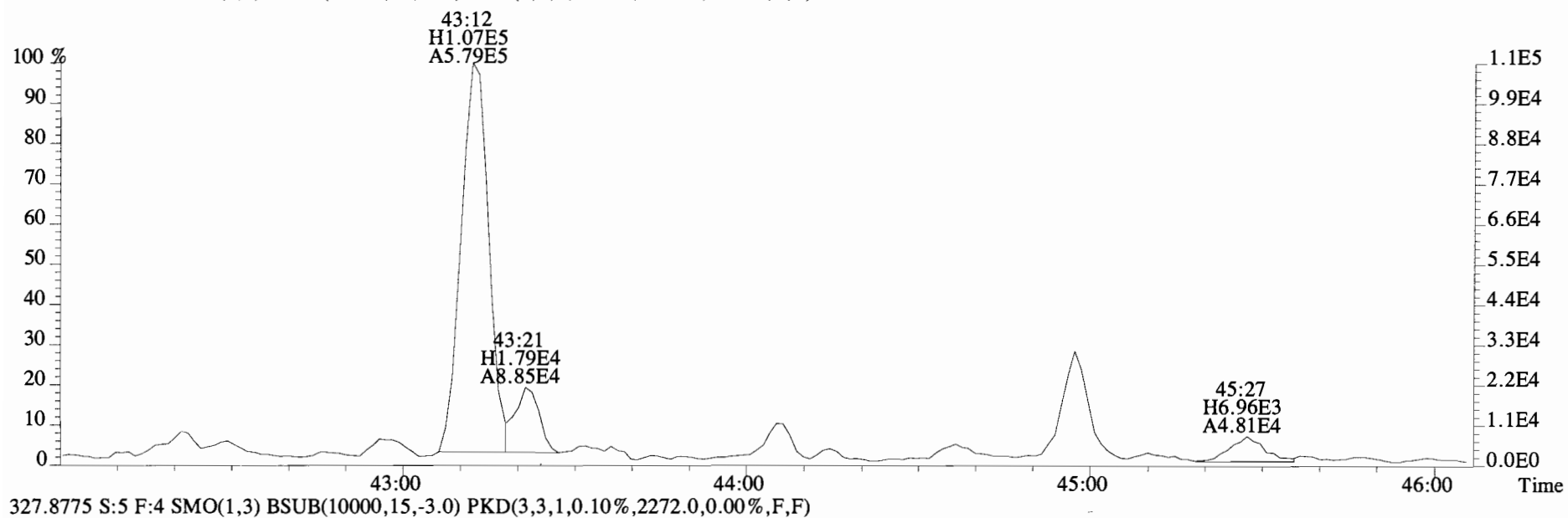
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1868.0,0.00%,F,F)



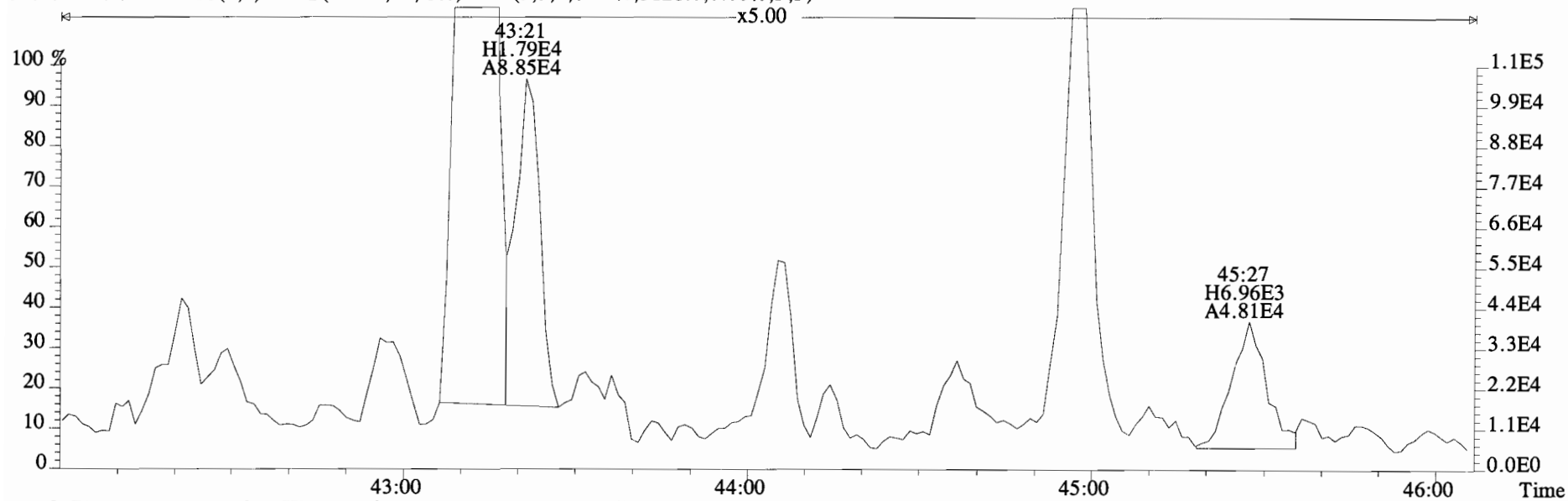
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3128.0,0.00%,F,F)



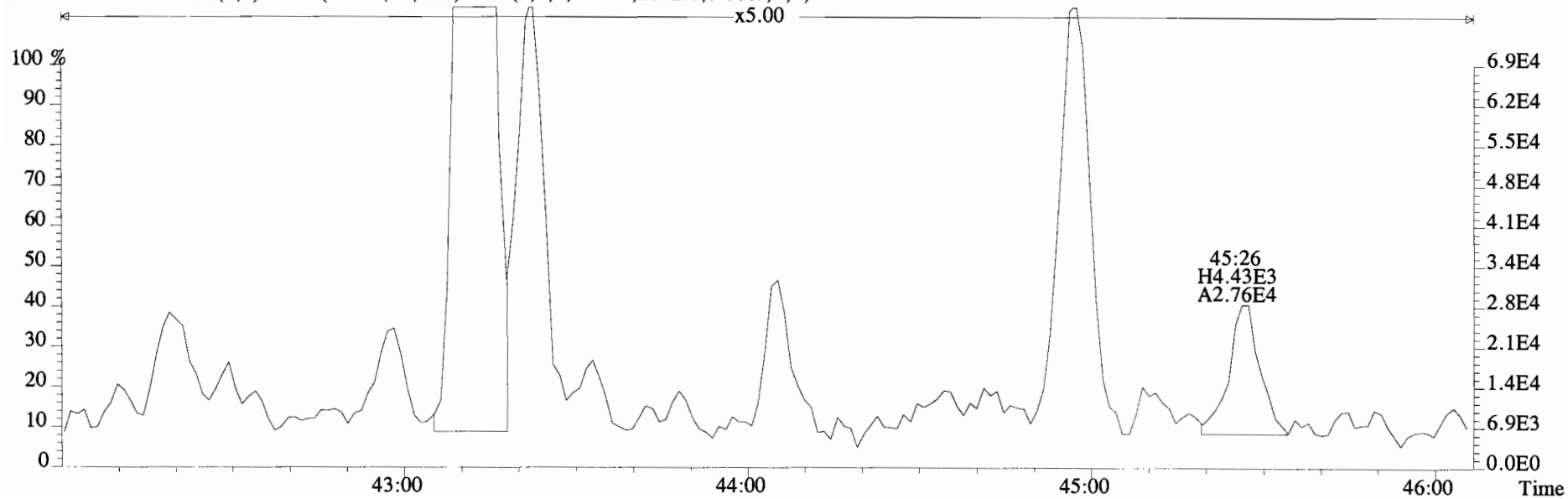
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3128.0,0.00%,F,F)



File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3128.0,0.00%,F,F)

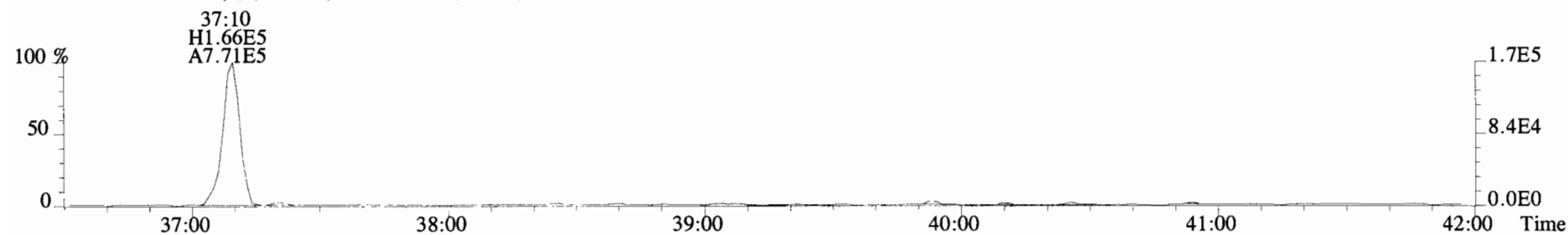
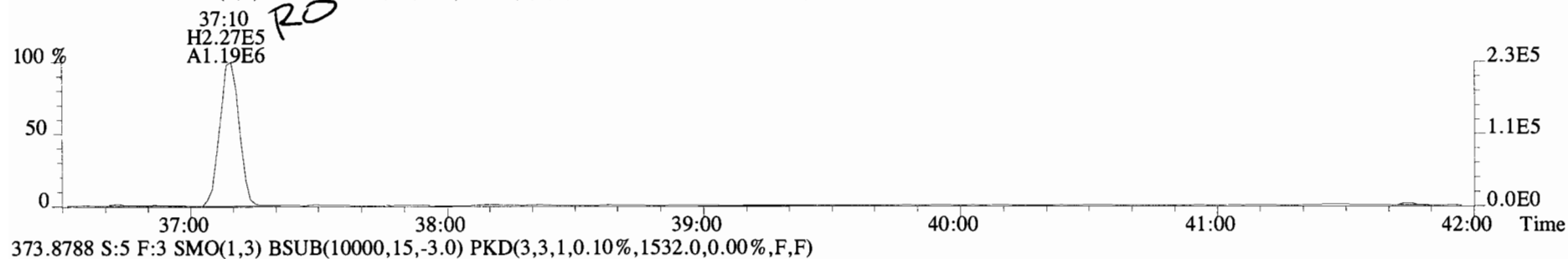
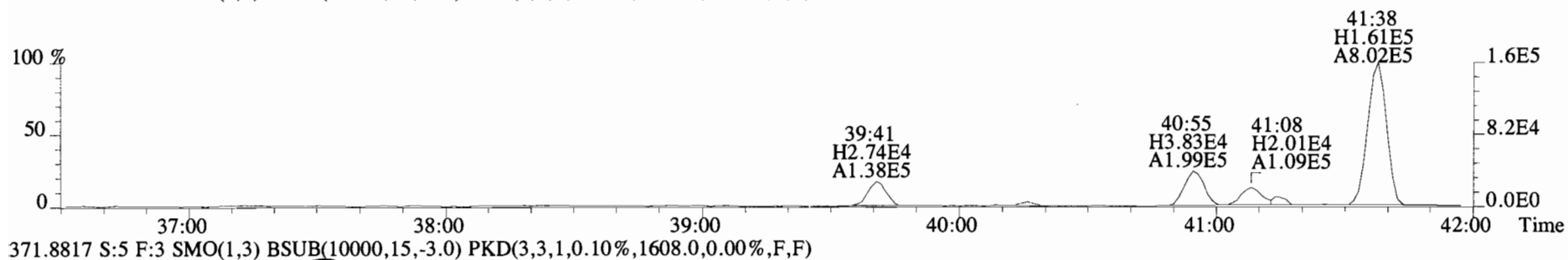
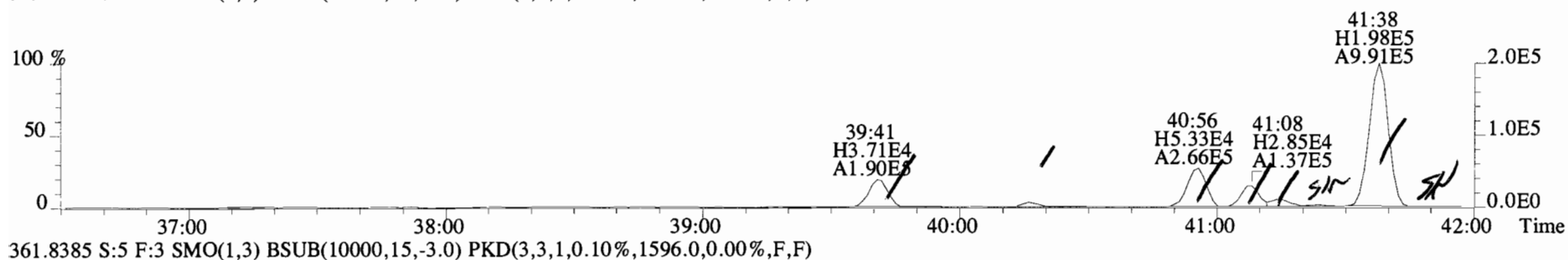


327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)

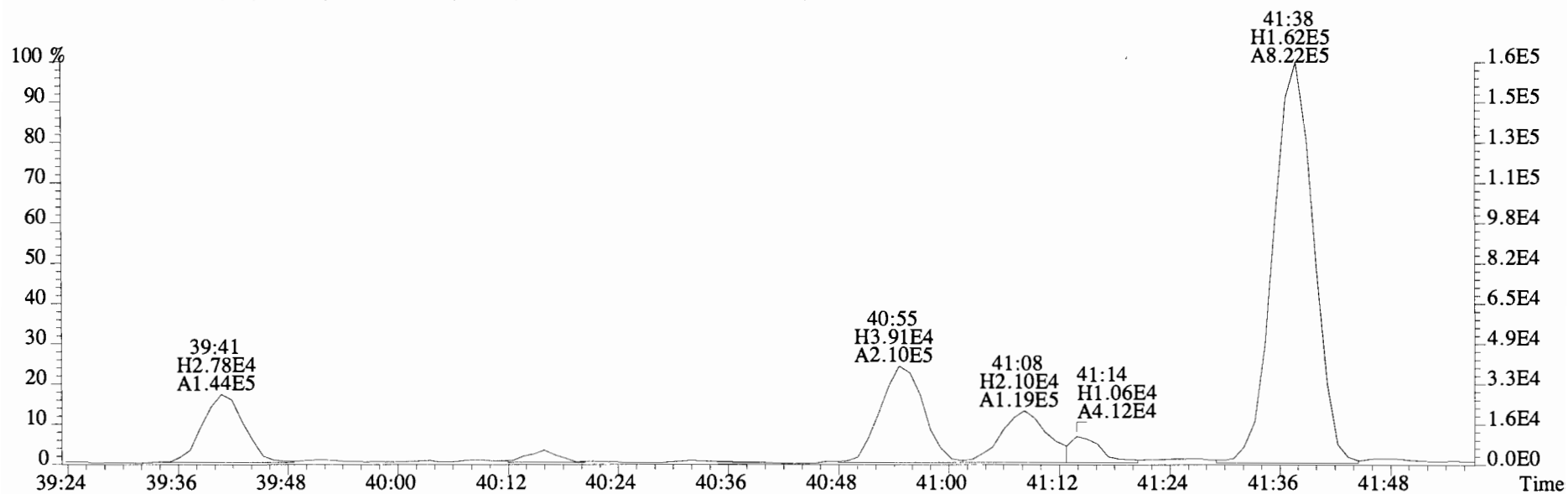
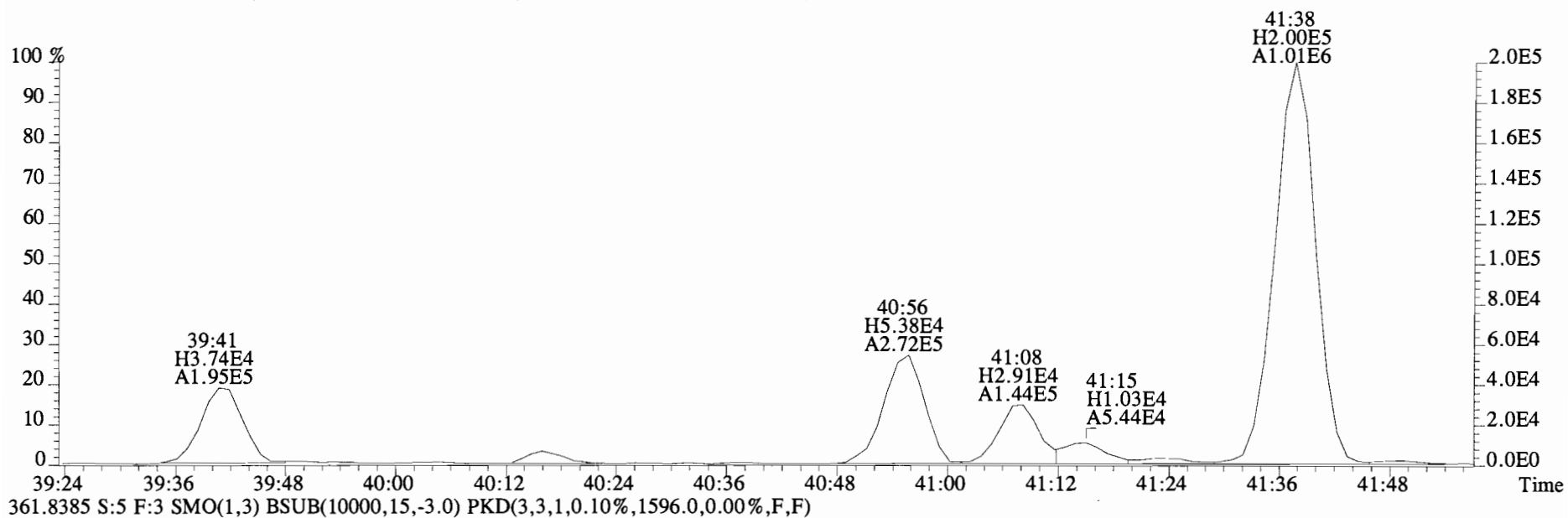




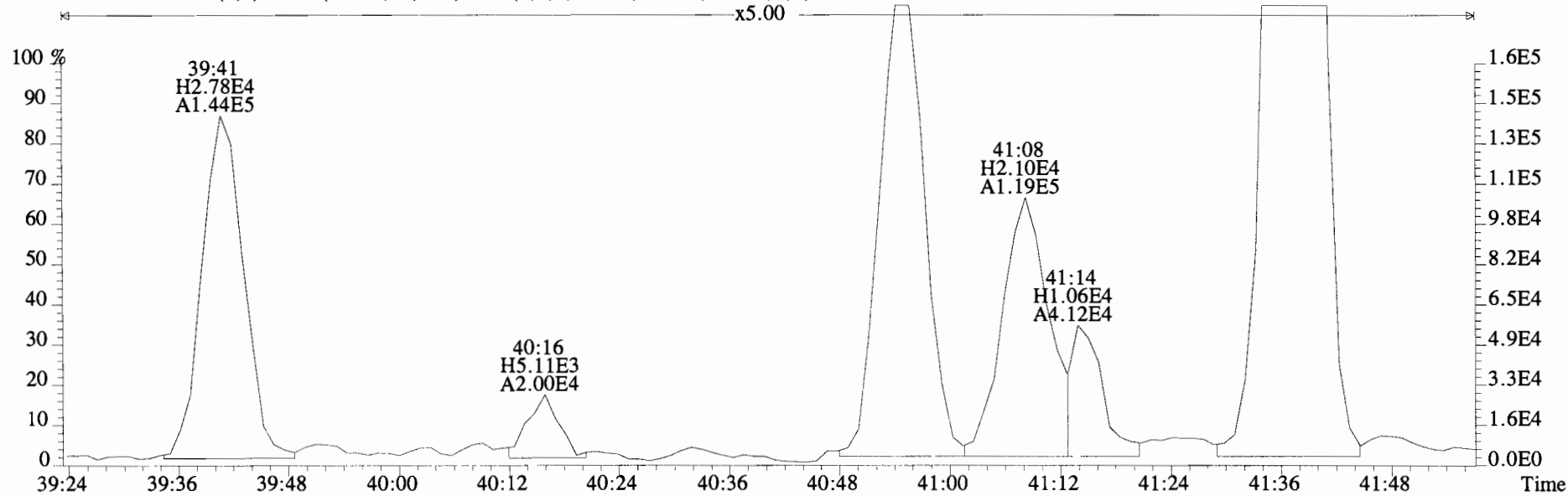
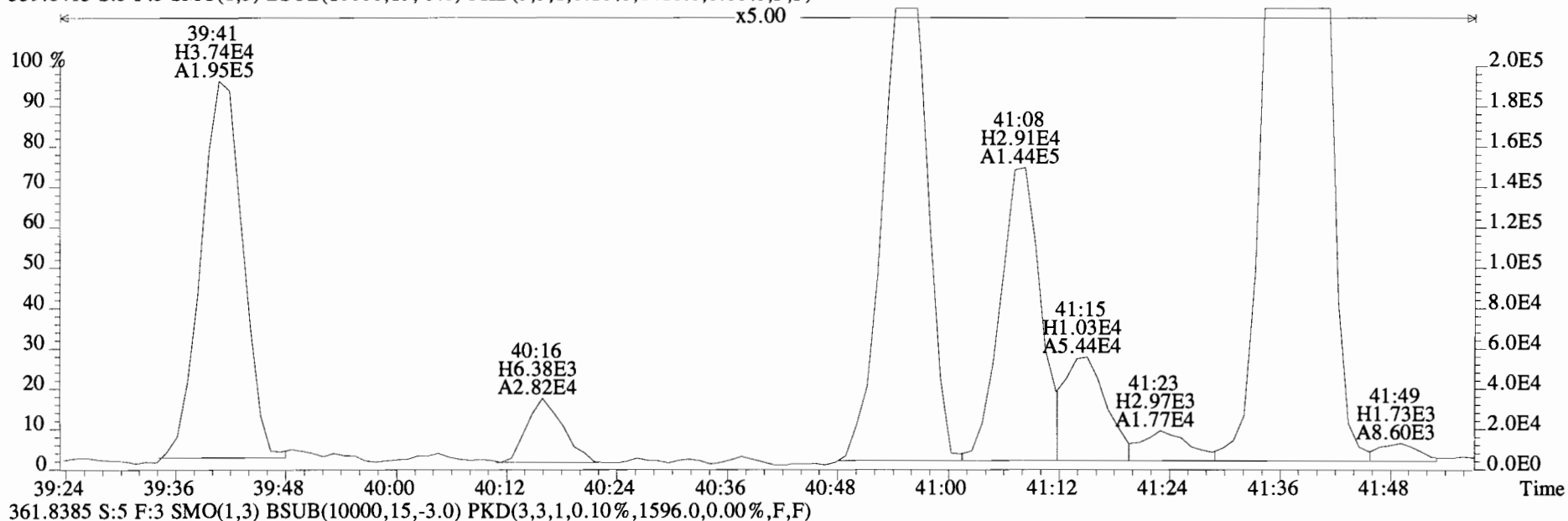
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1416.0,0.00%,F,F)



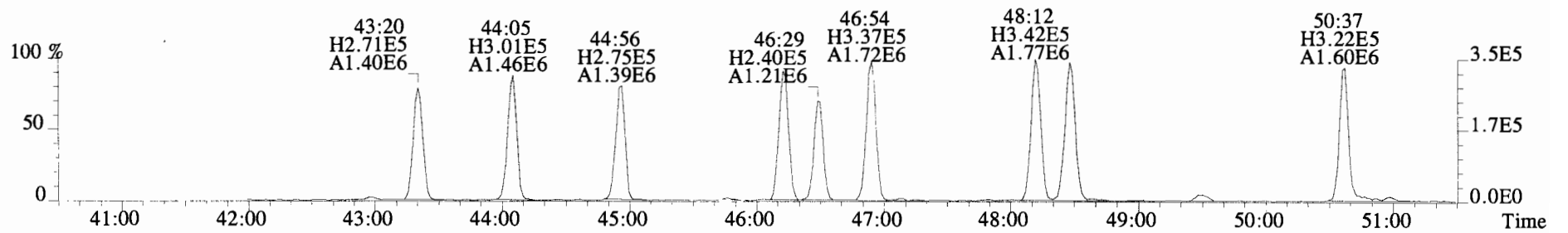
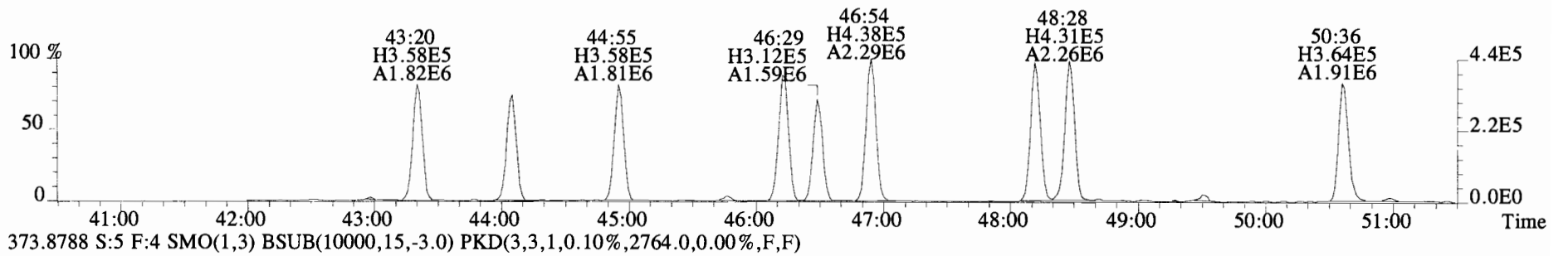
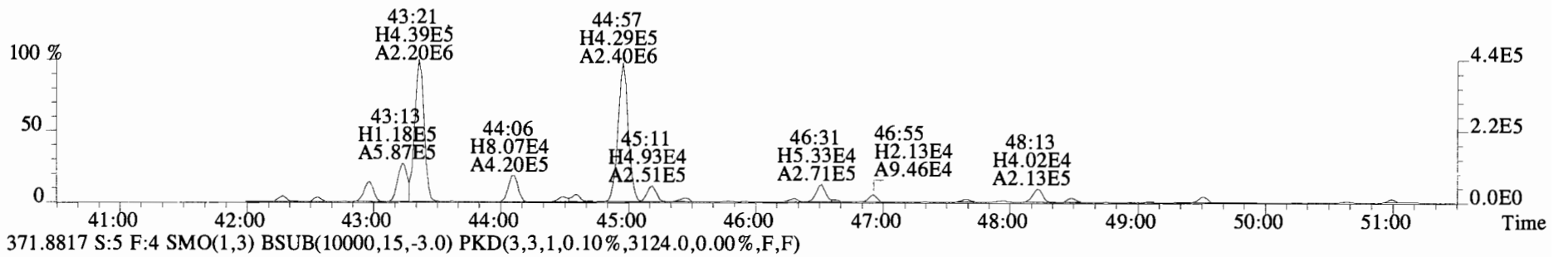
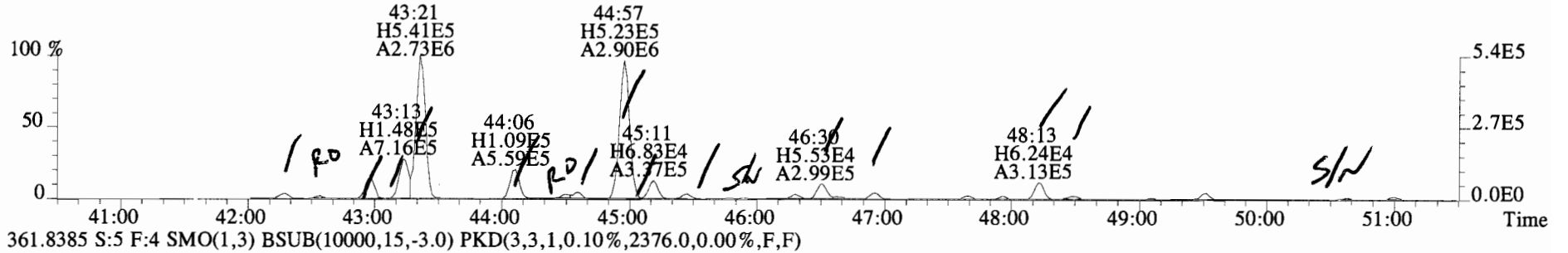
File:141002E1 #1-762 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1416.0,0.00%,F,F)



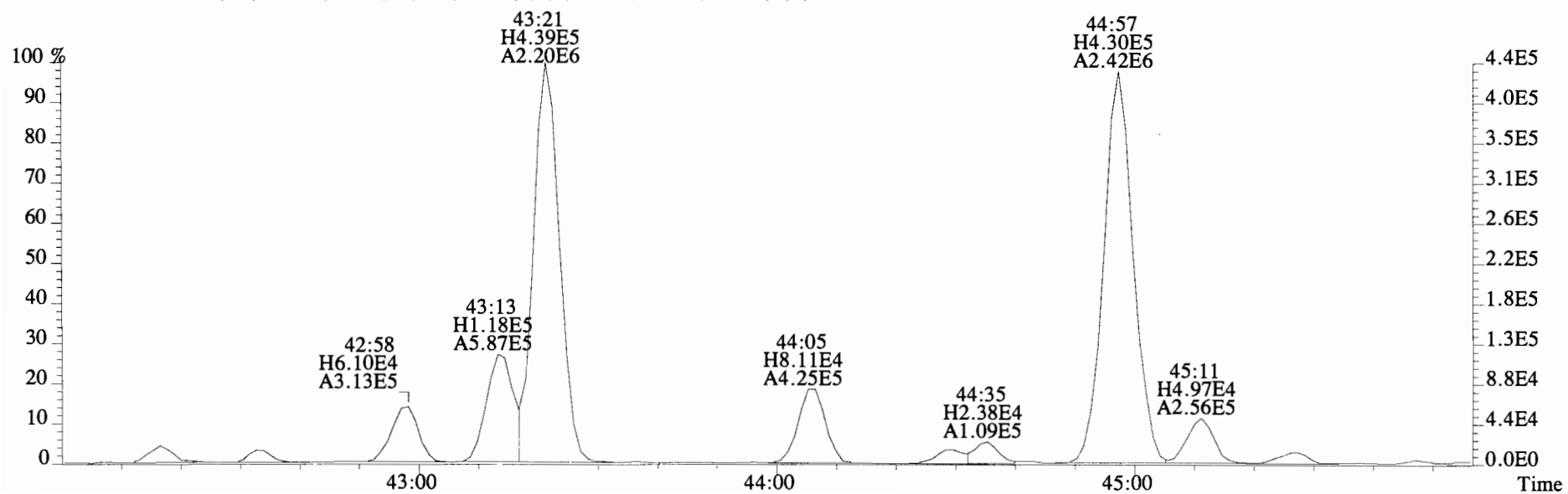
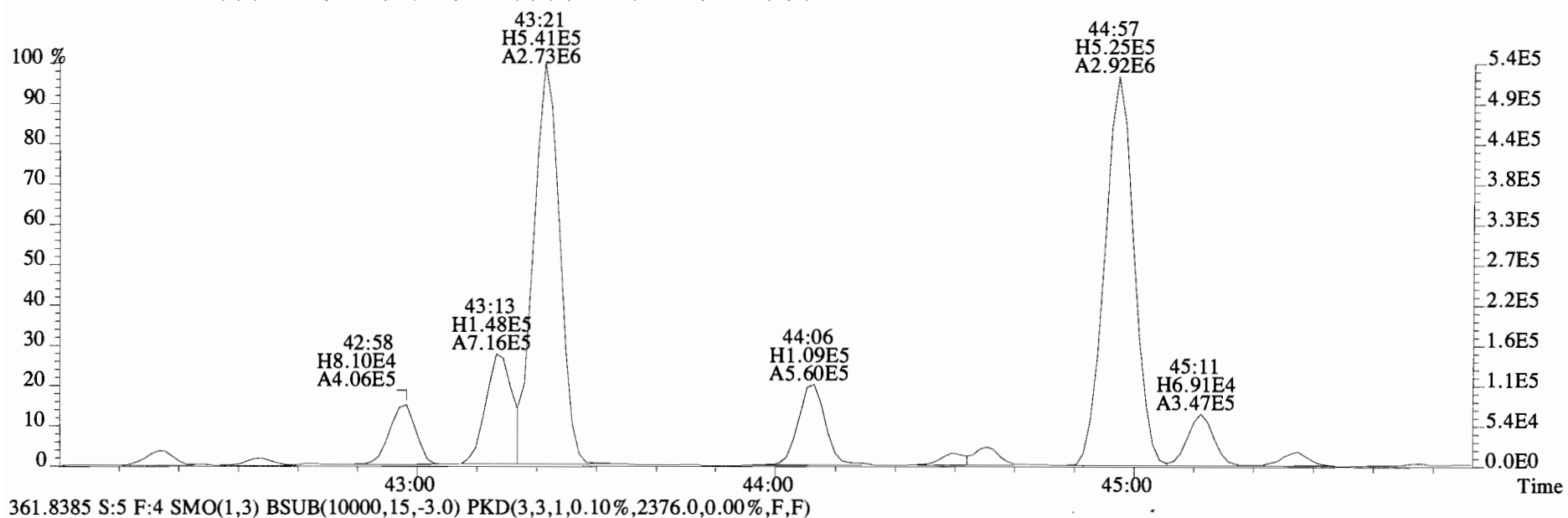
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1416.0,0.00%,F,F)



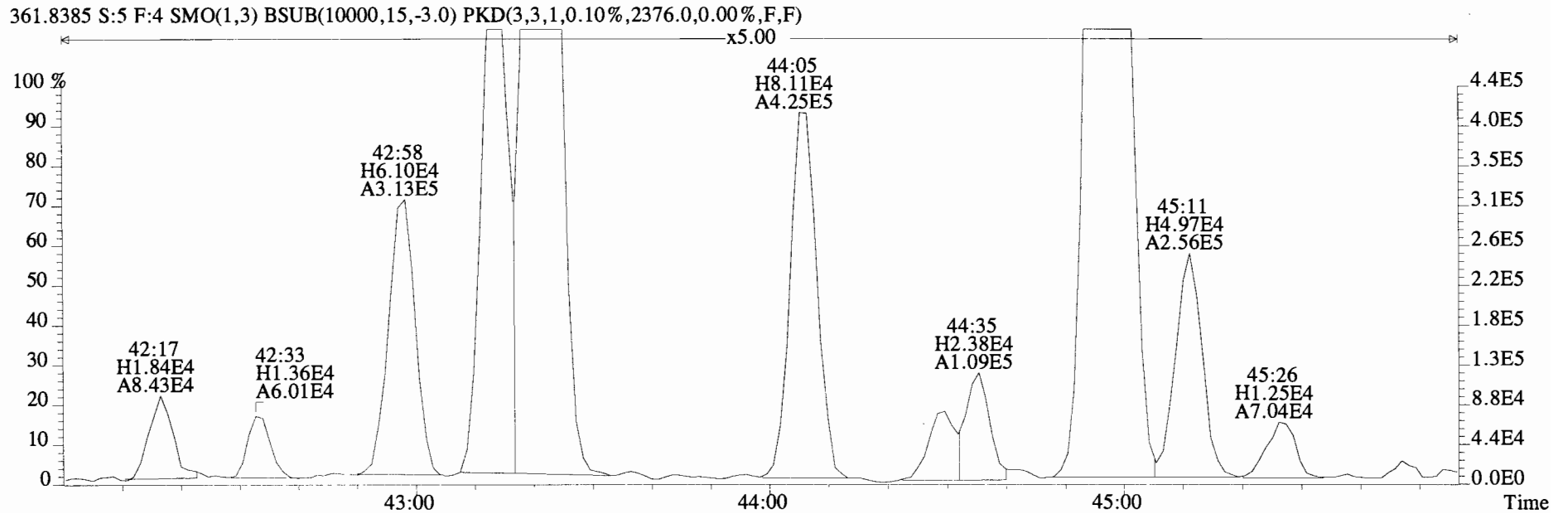
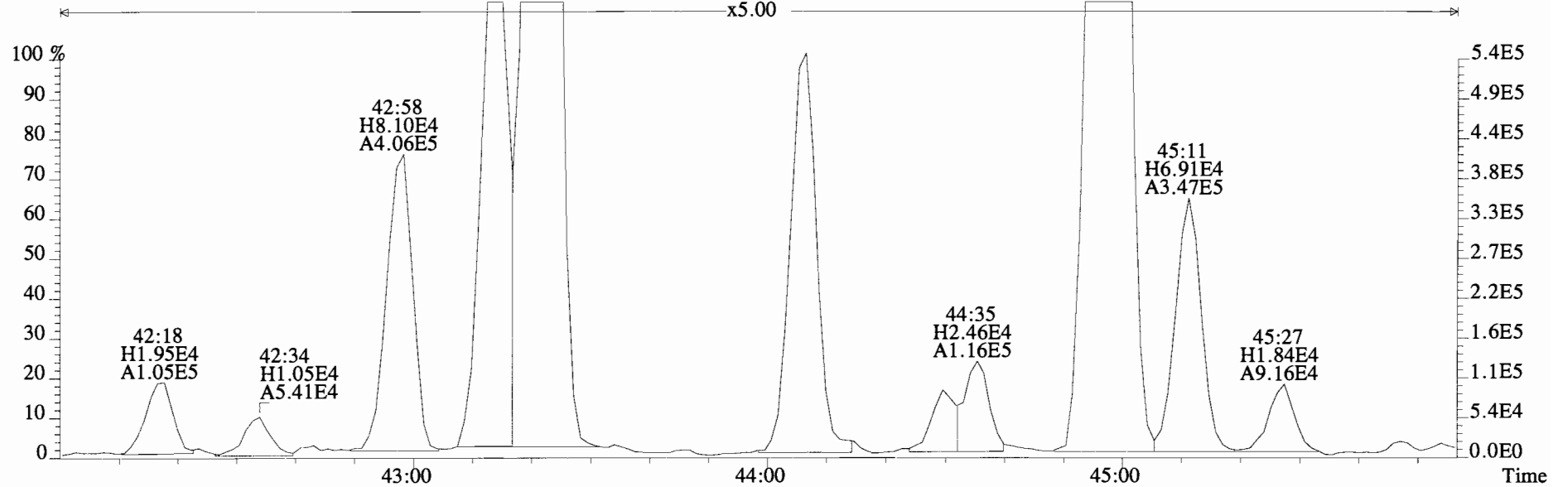
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



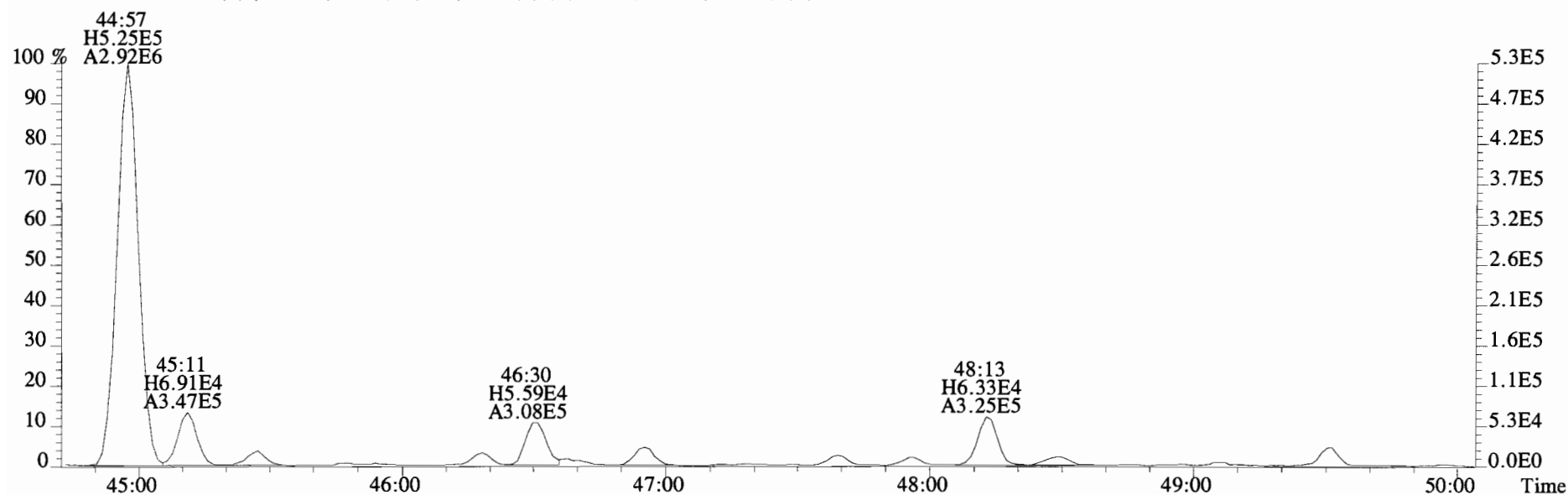
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 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



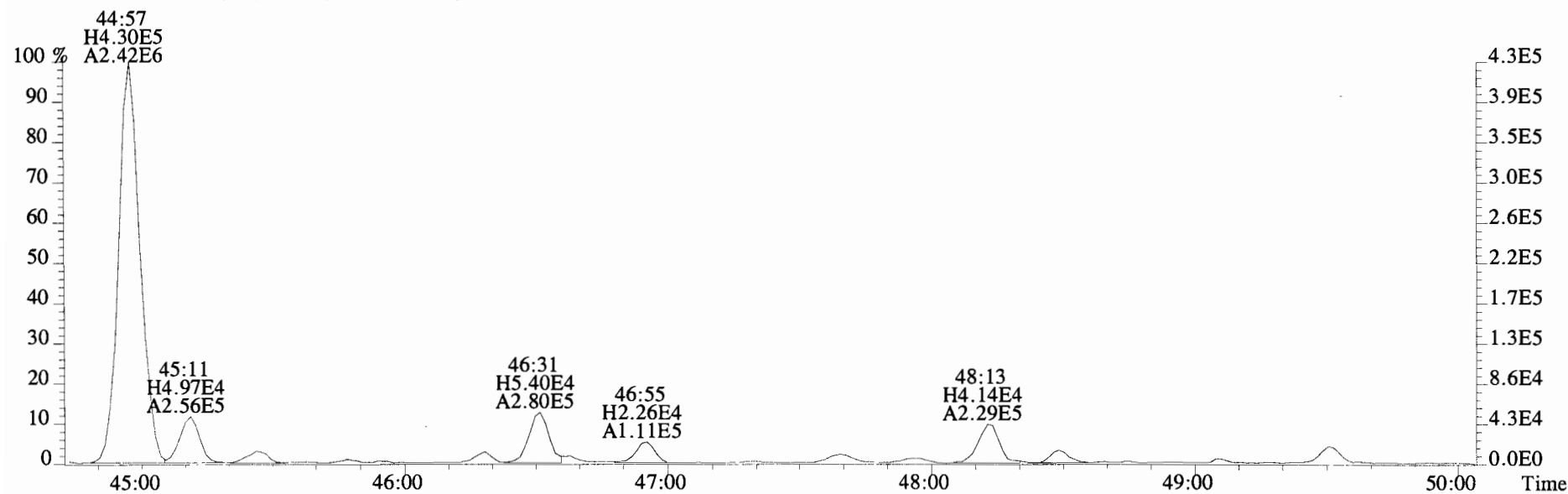
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



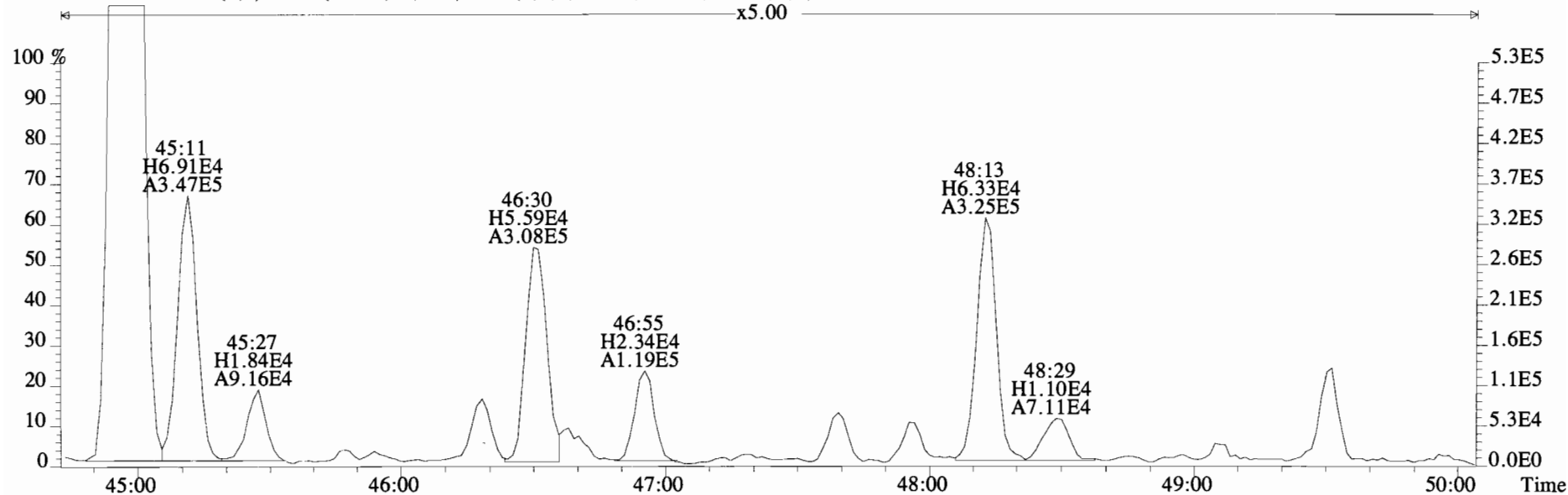
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 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



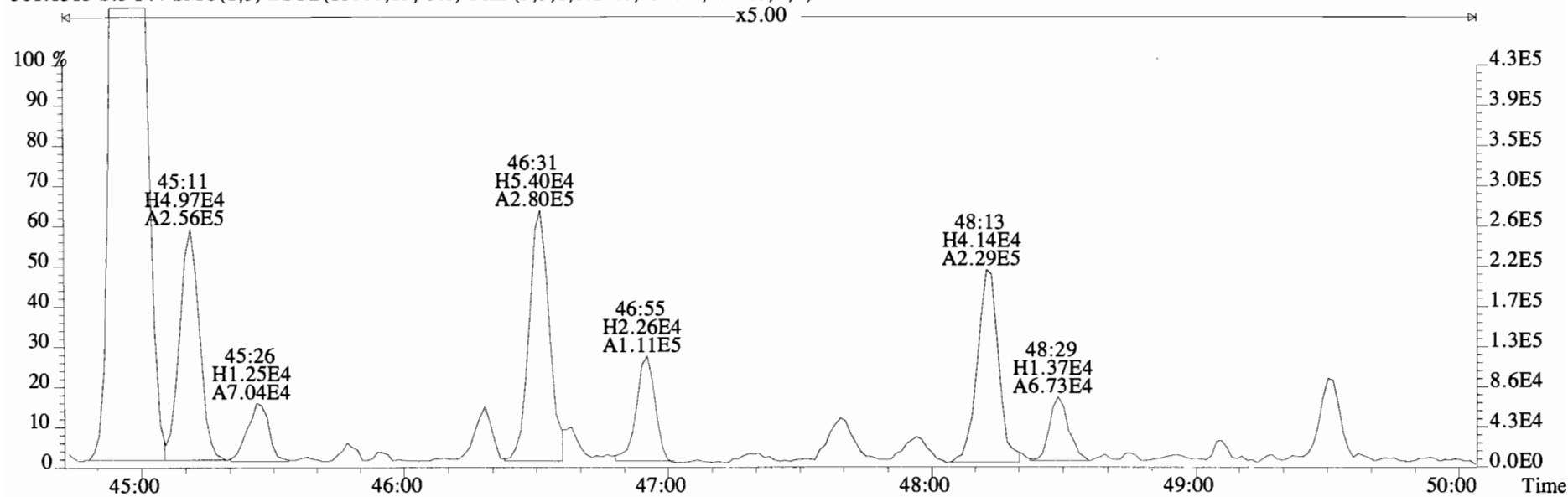
361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2376.0,0.00%,F,F)



File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)

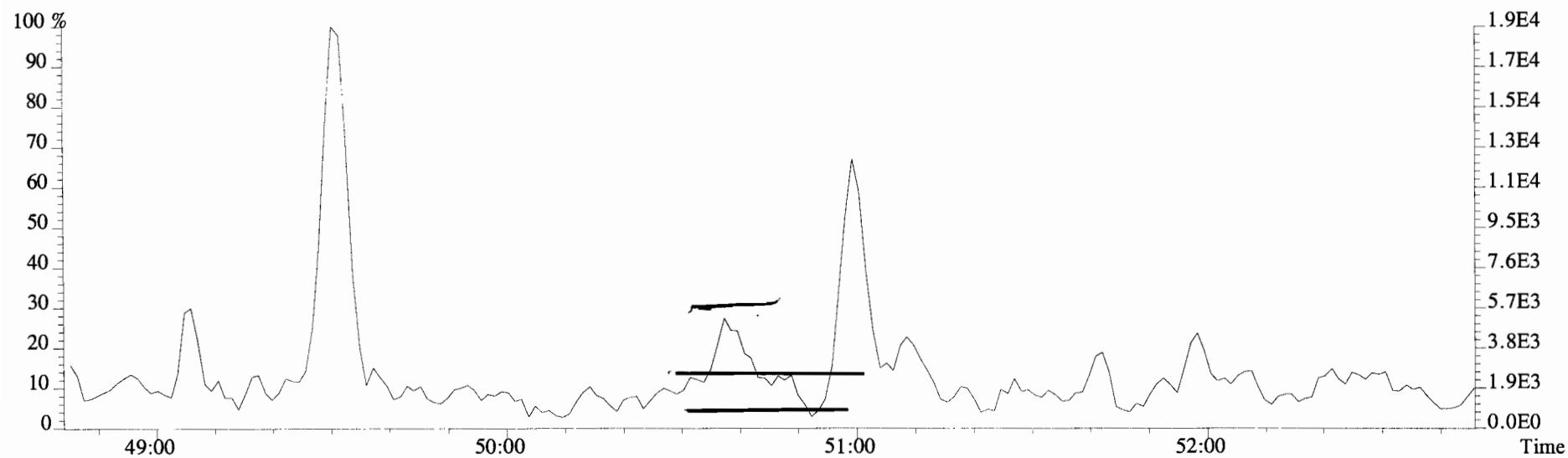
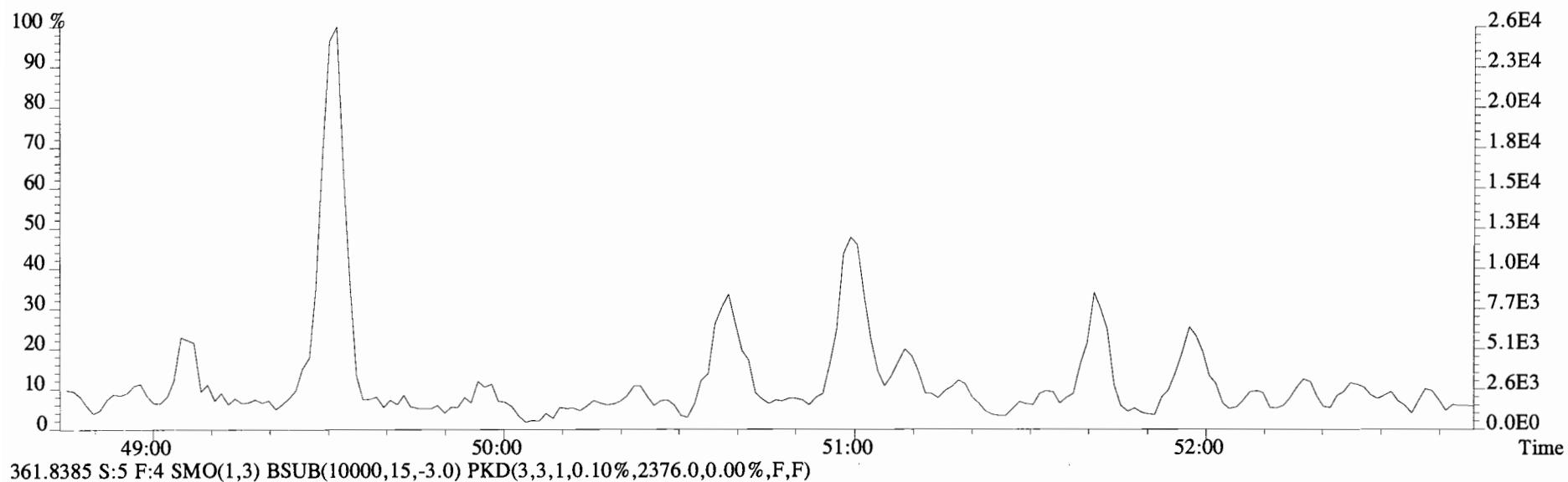


361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2376.0,0.00%,F,F)

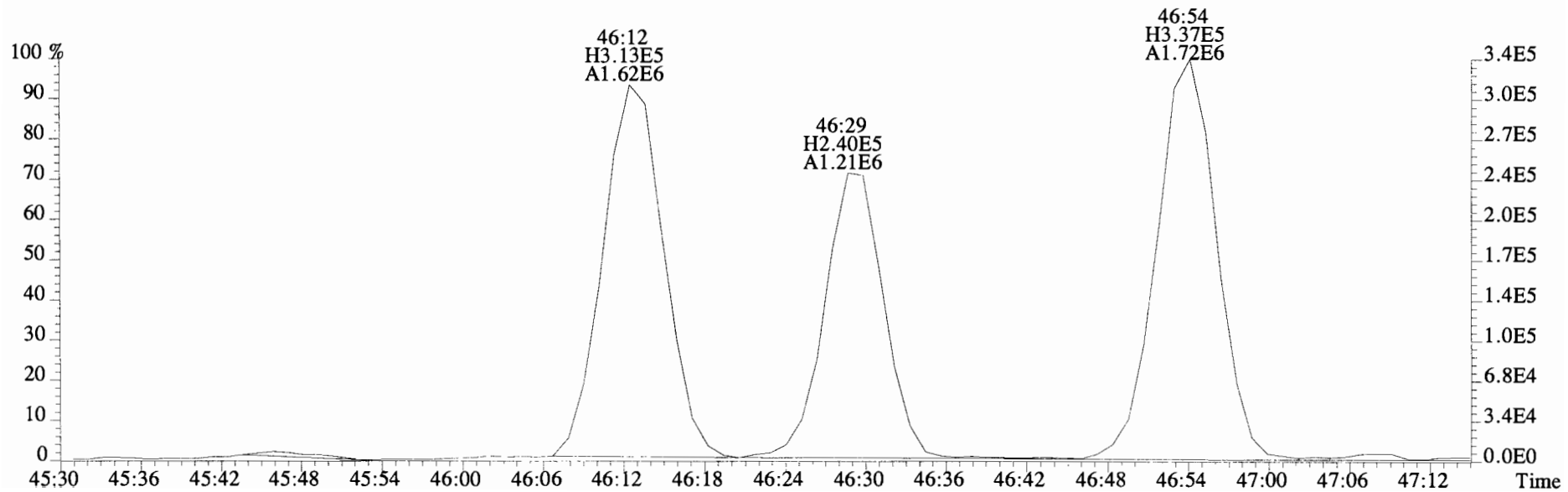
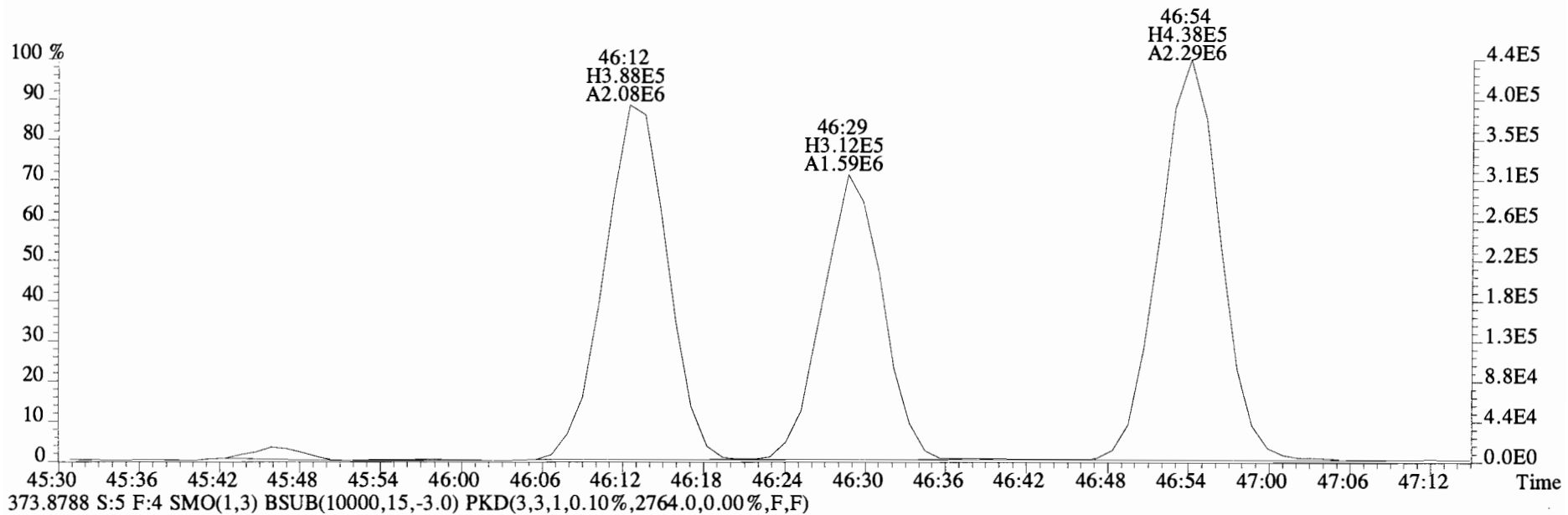




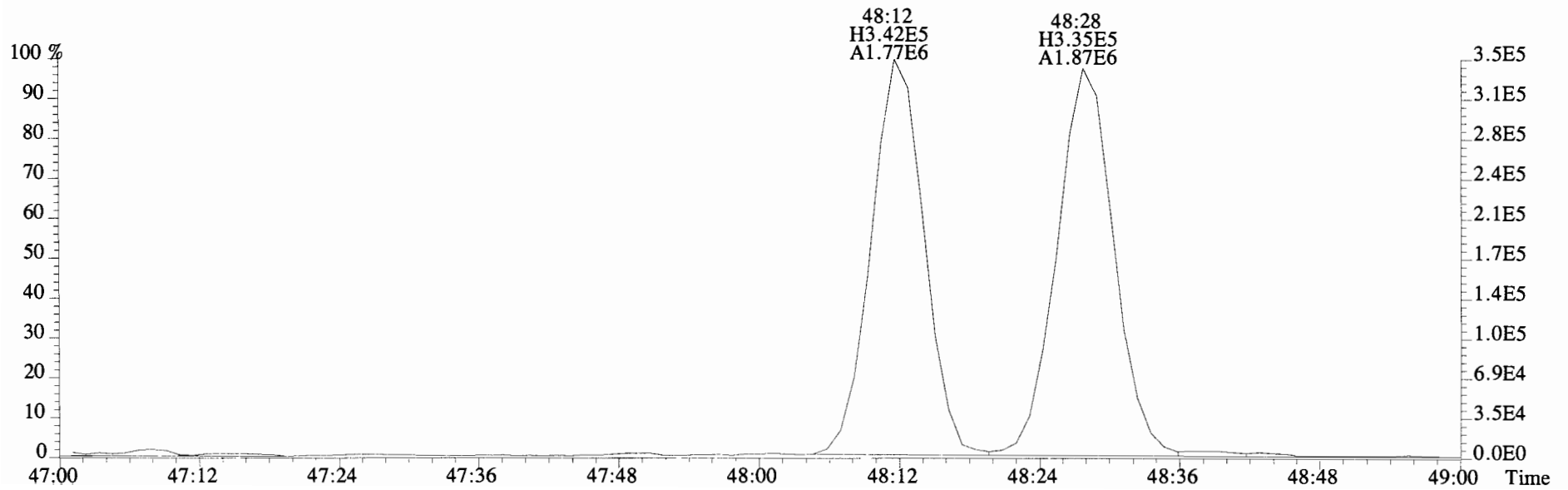
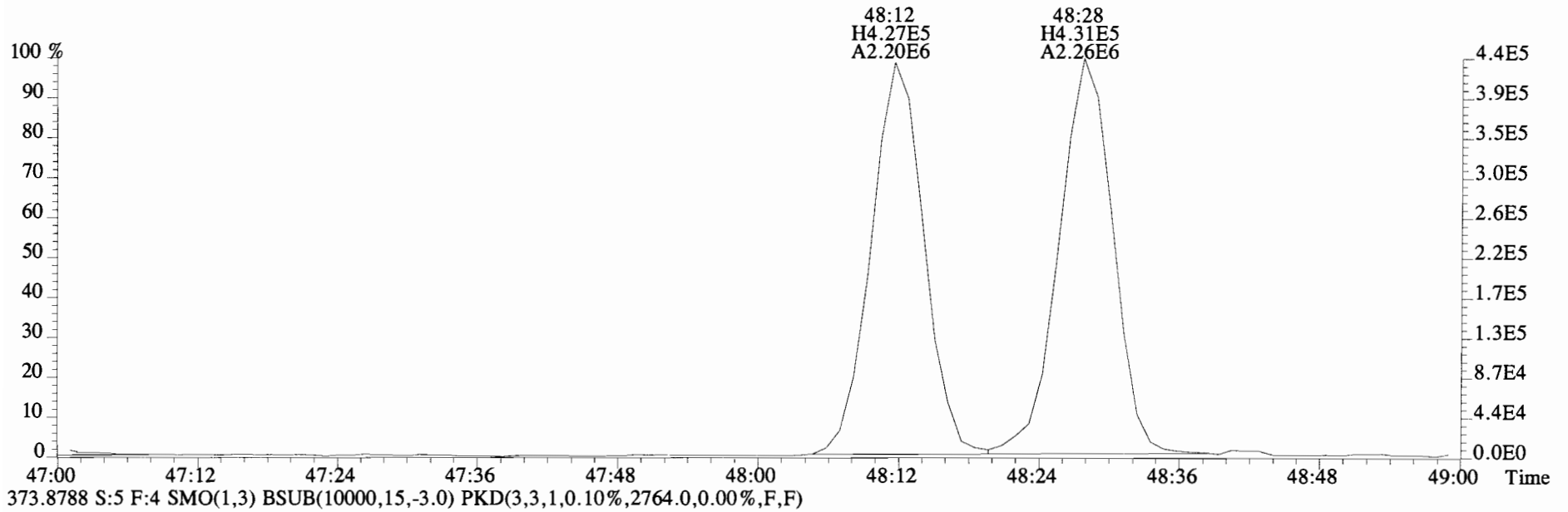
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



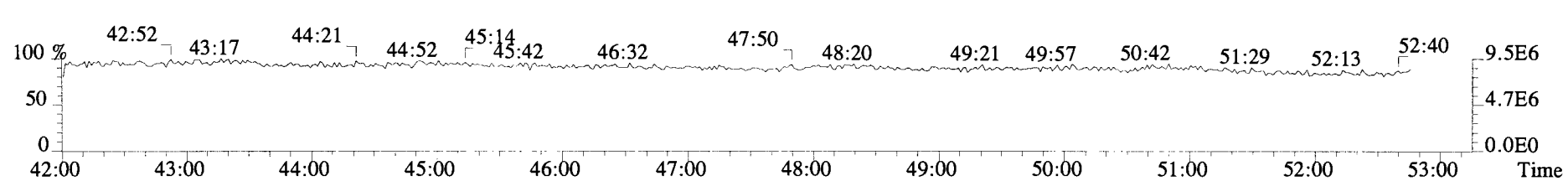
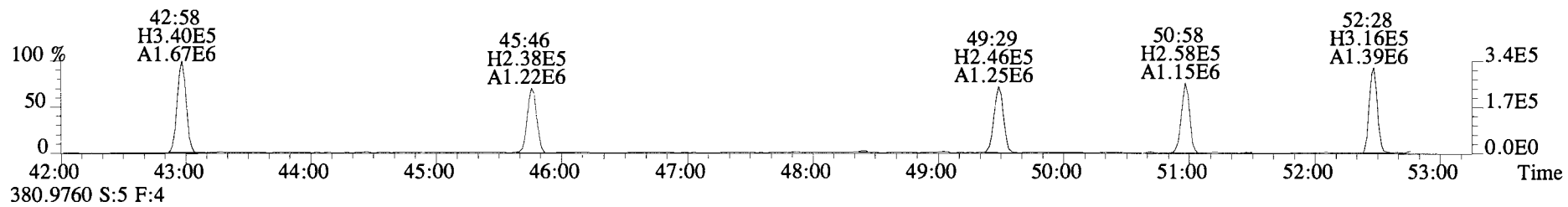
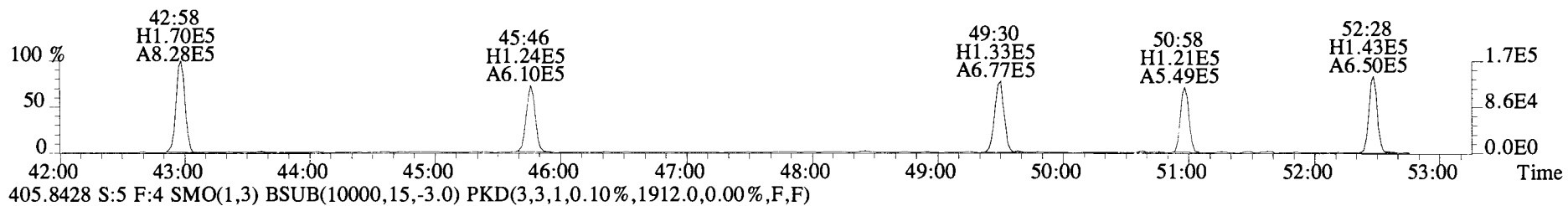
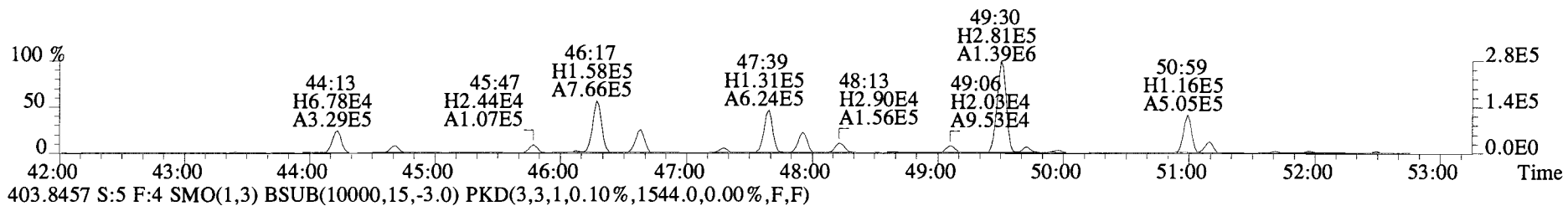
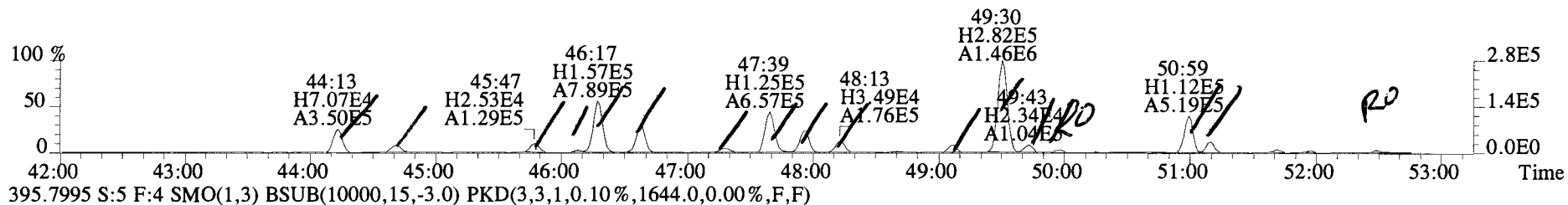
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3124.0,0.00%,F,F)



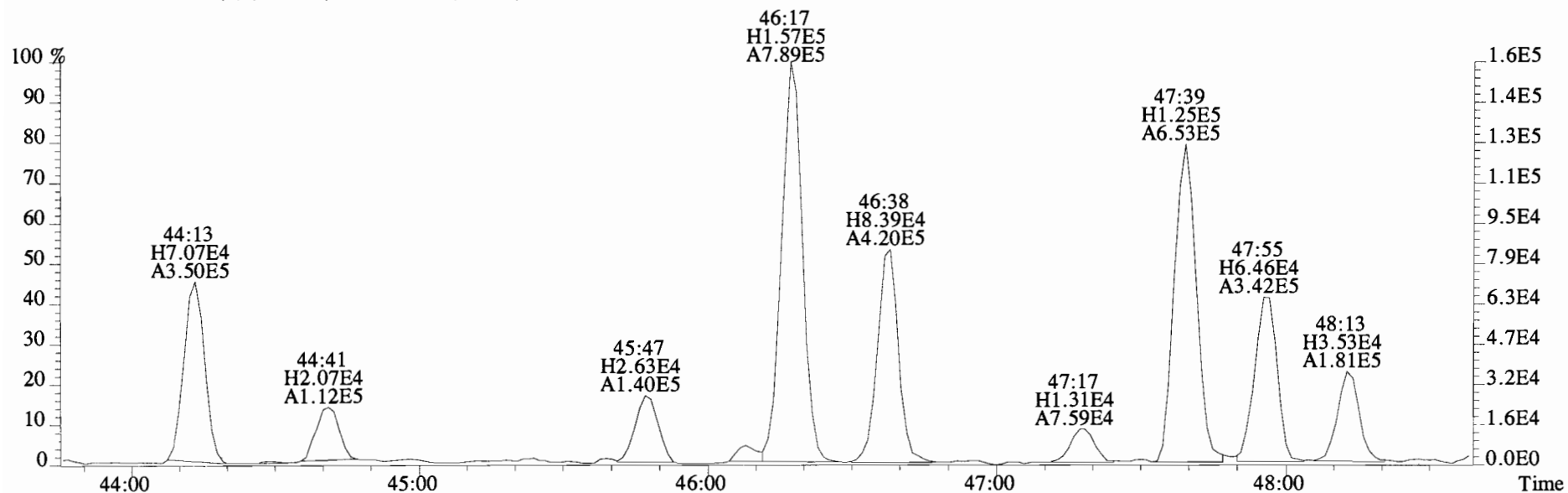
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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
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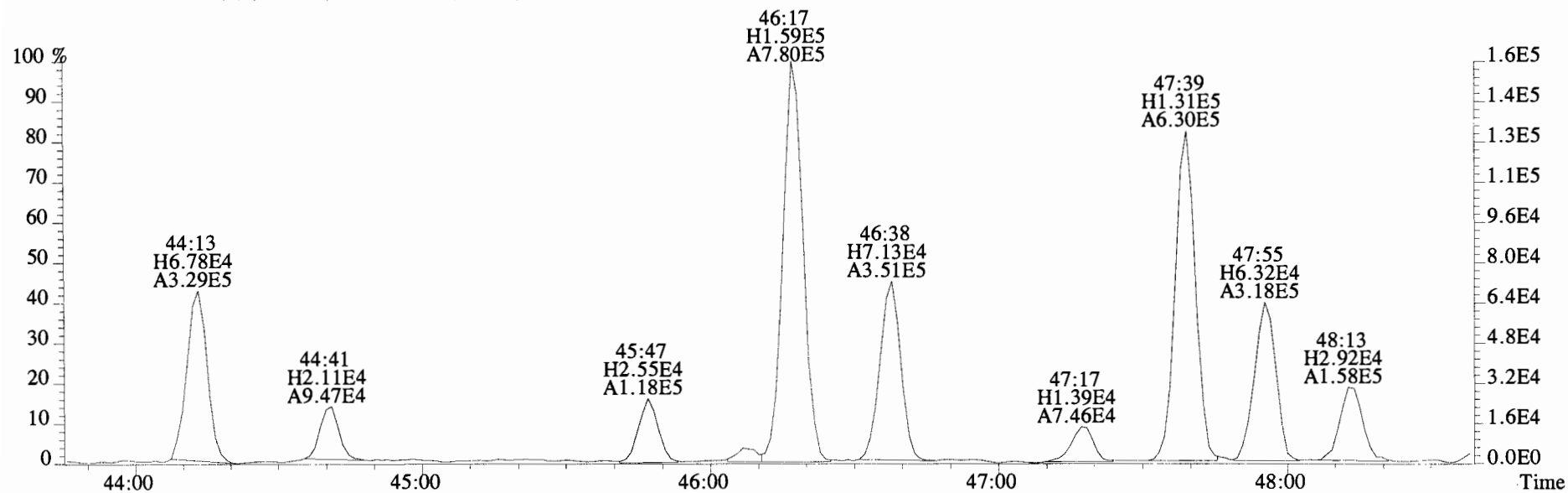
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



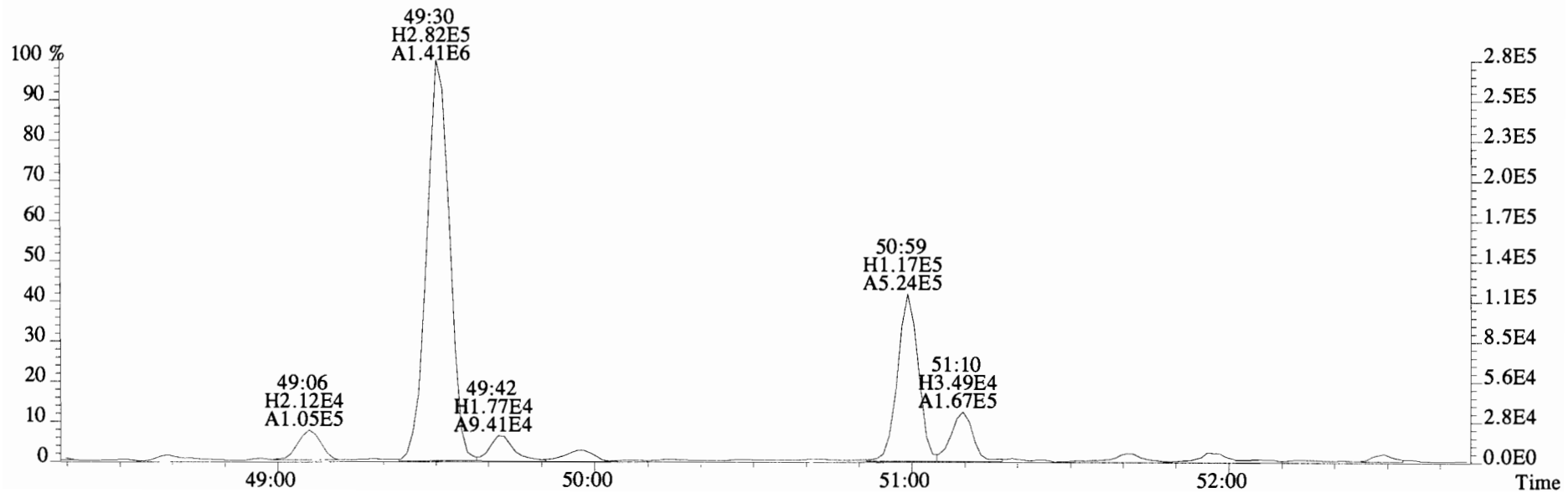
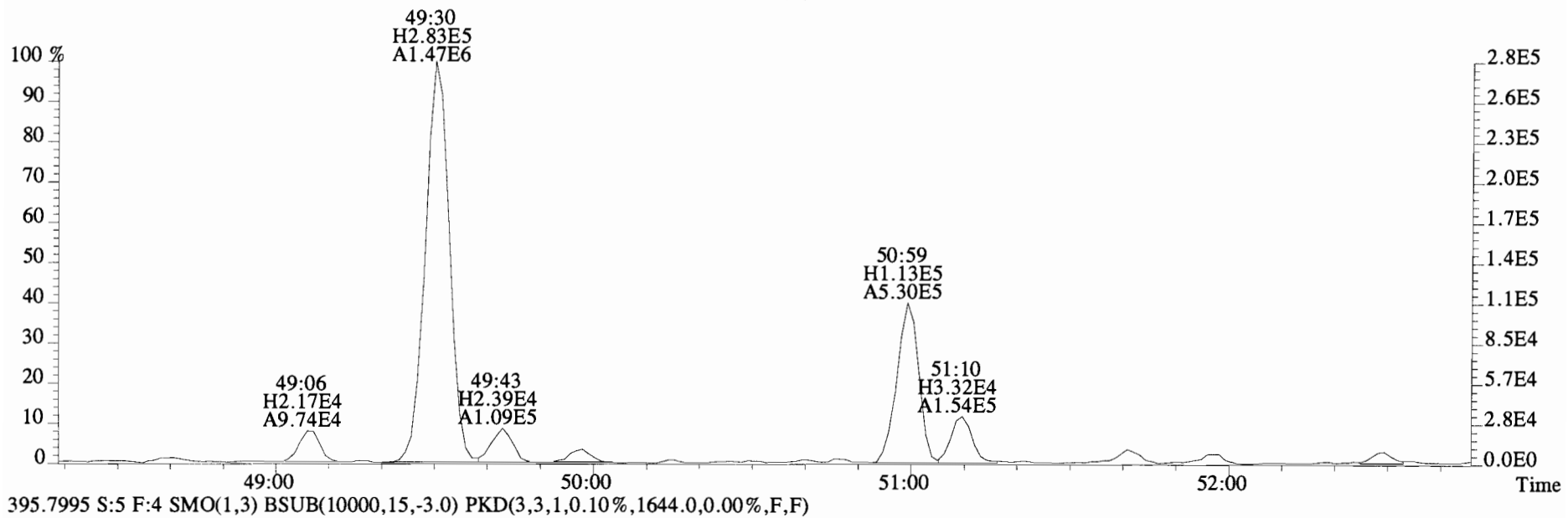
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



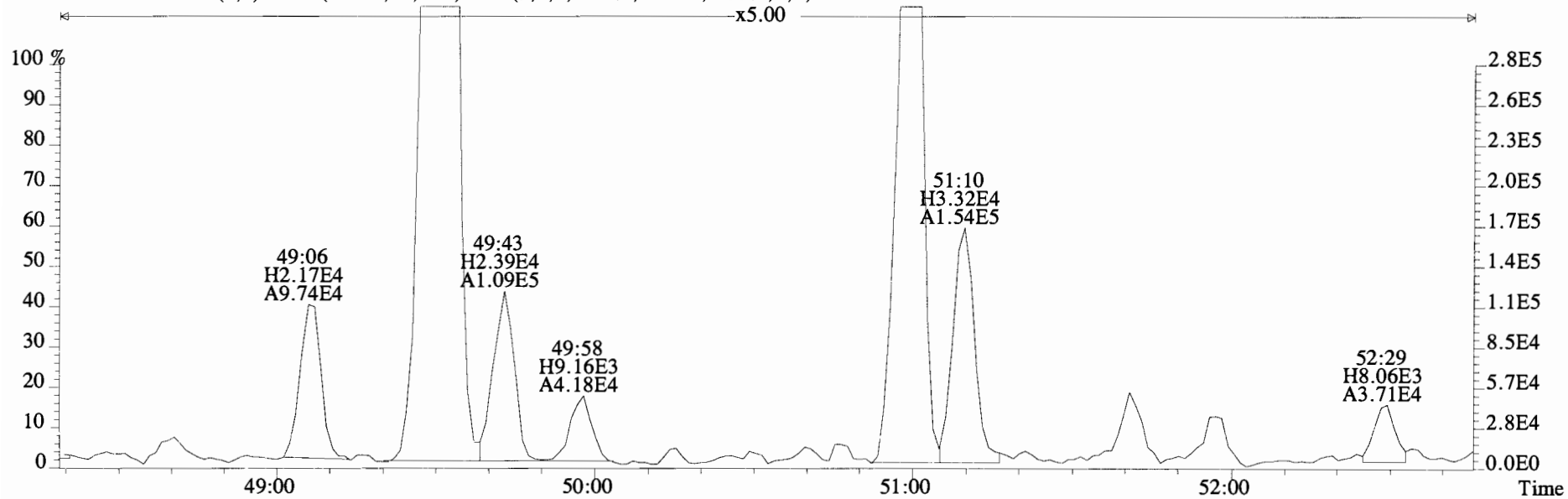
395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



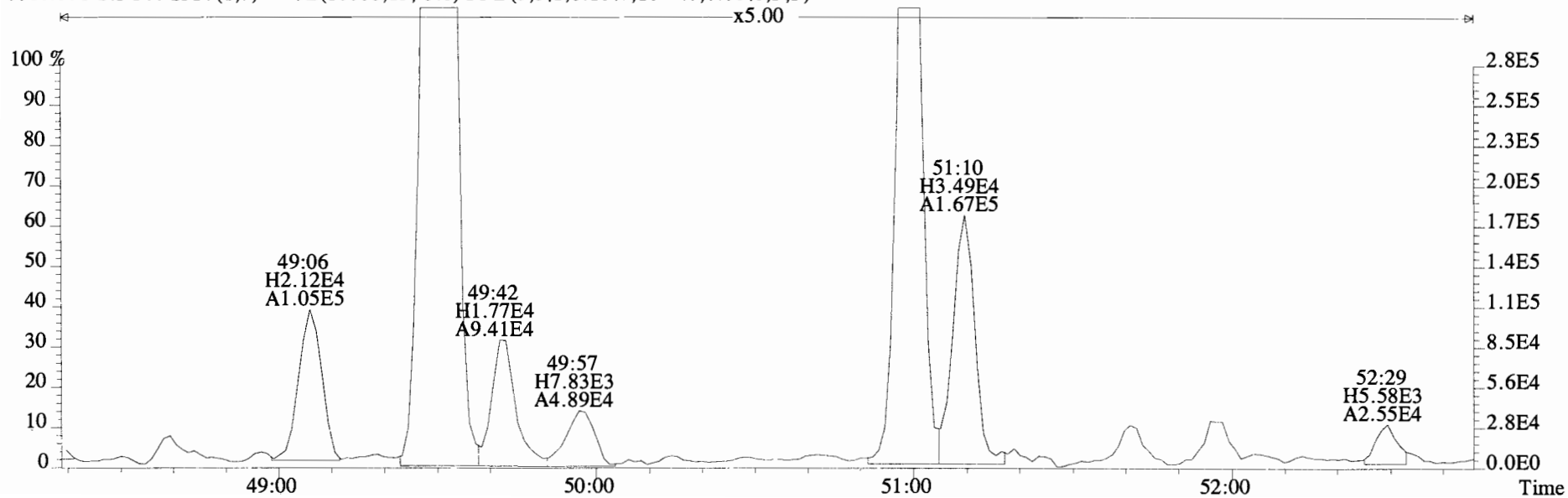
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



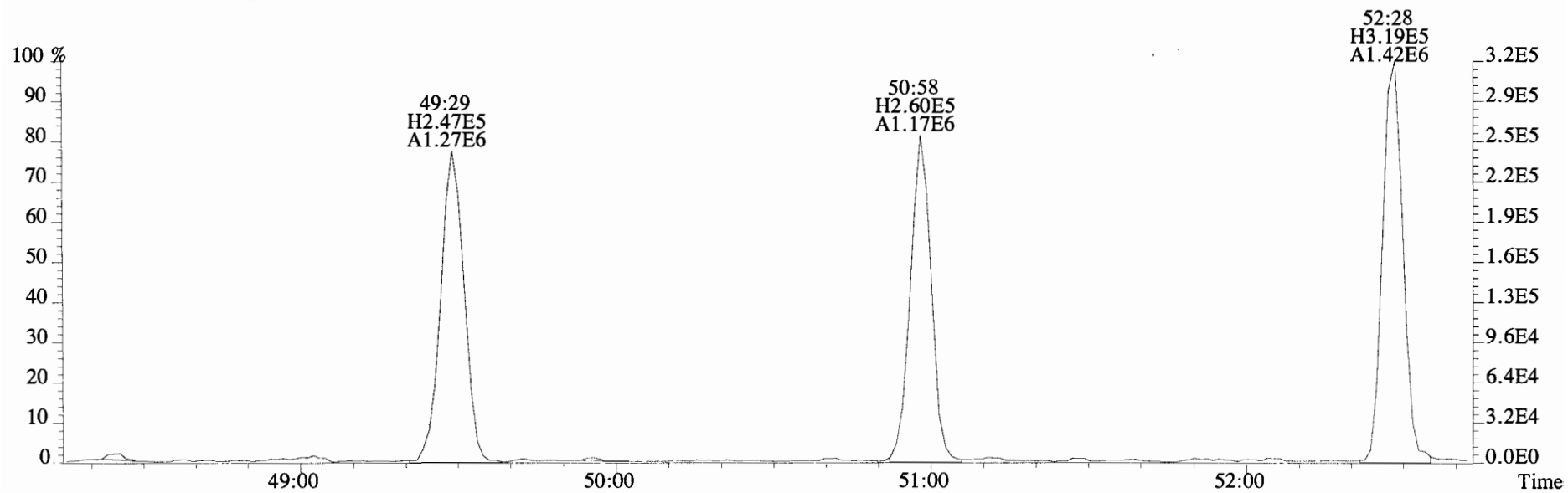
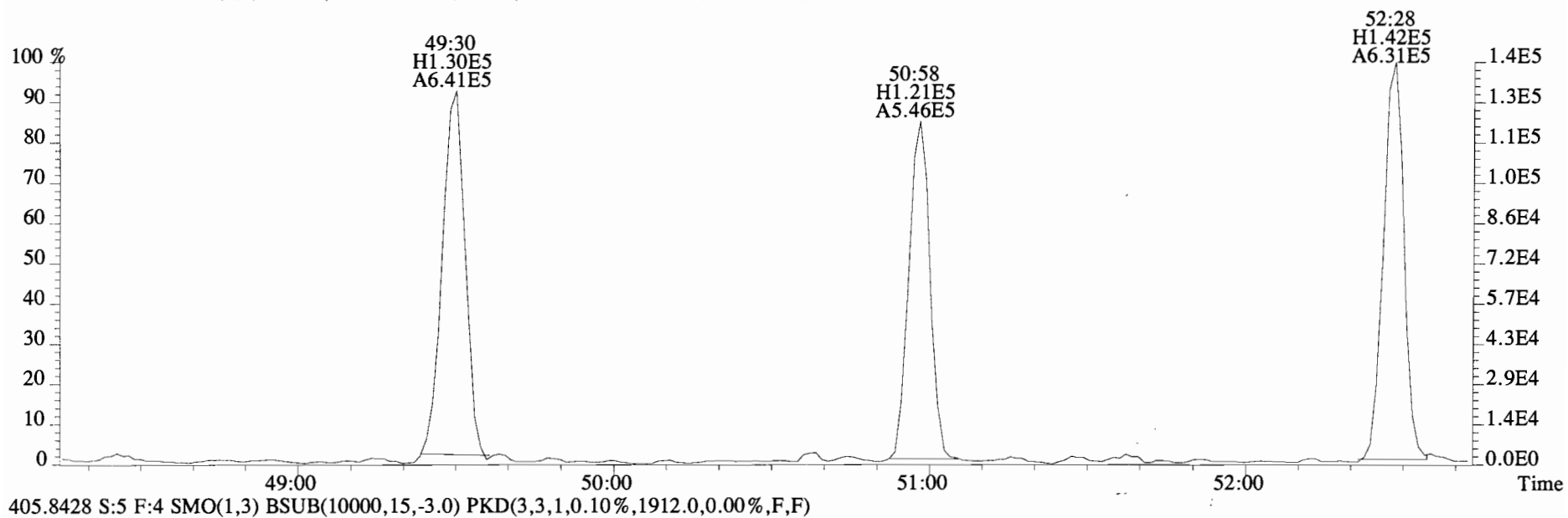
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)

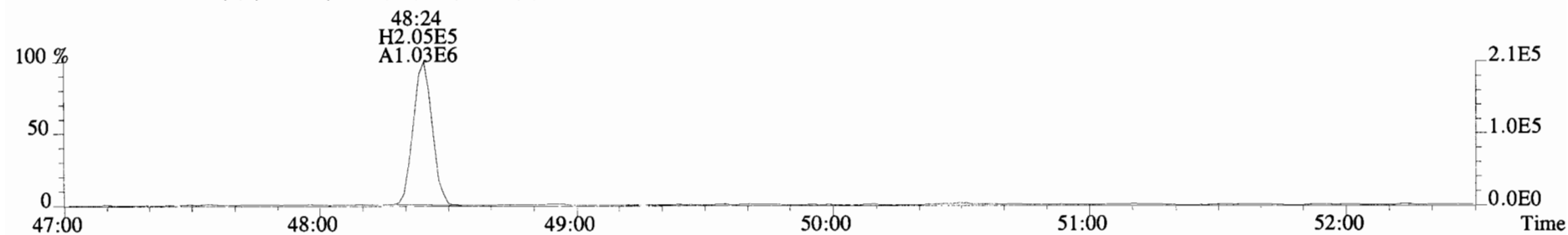
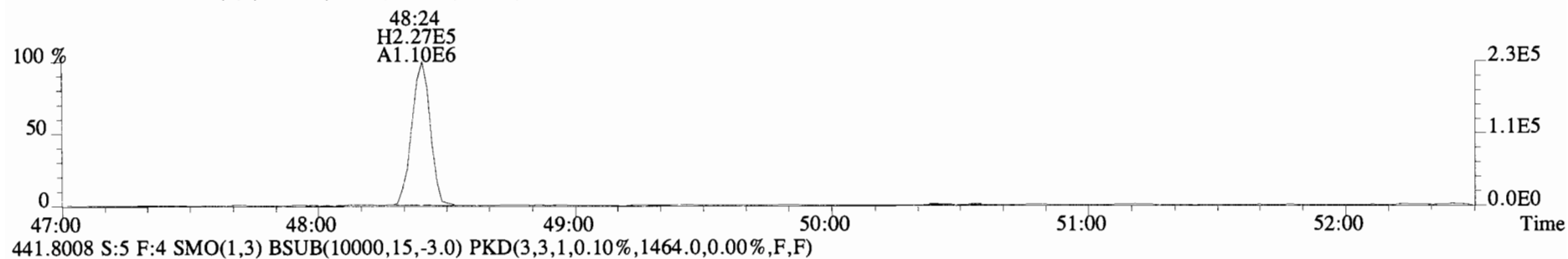
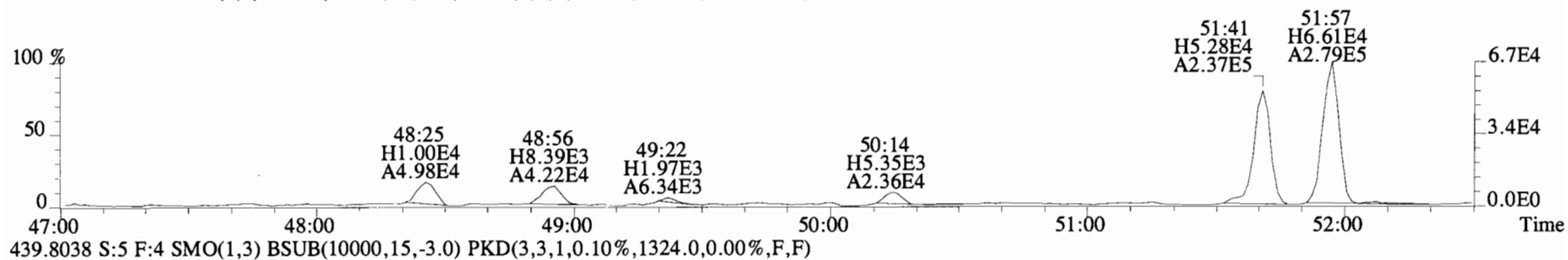
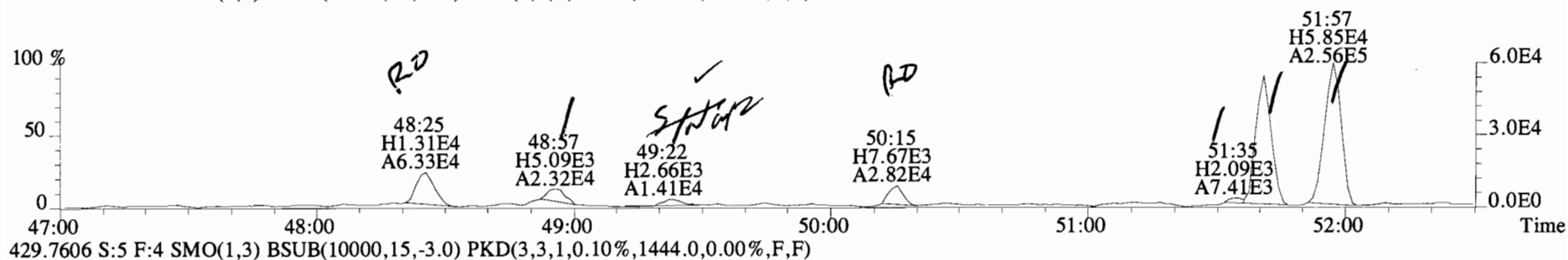


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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text: 1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp: PCB\_ZB1  
403.8457 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1544.0,0.00%,F,F)

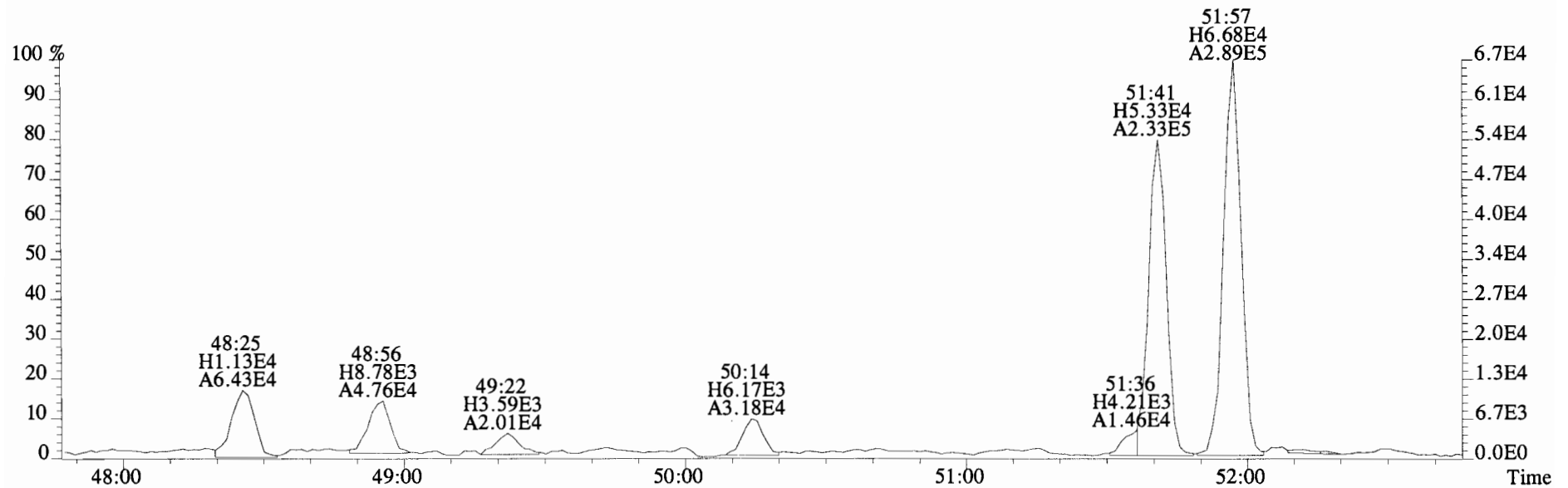
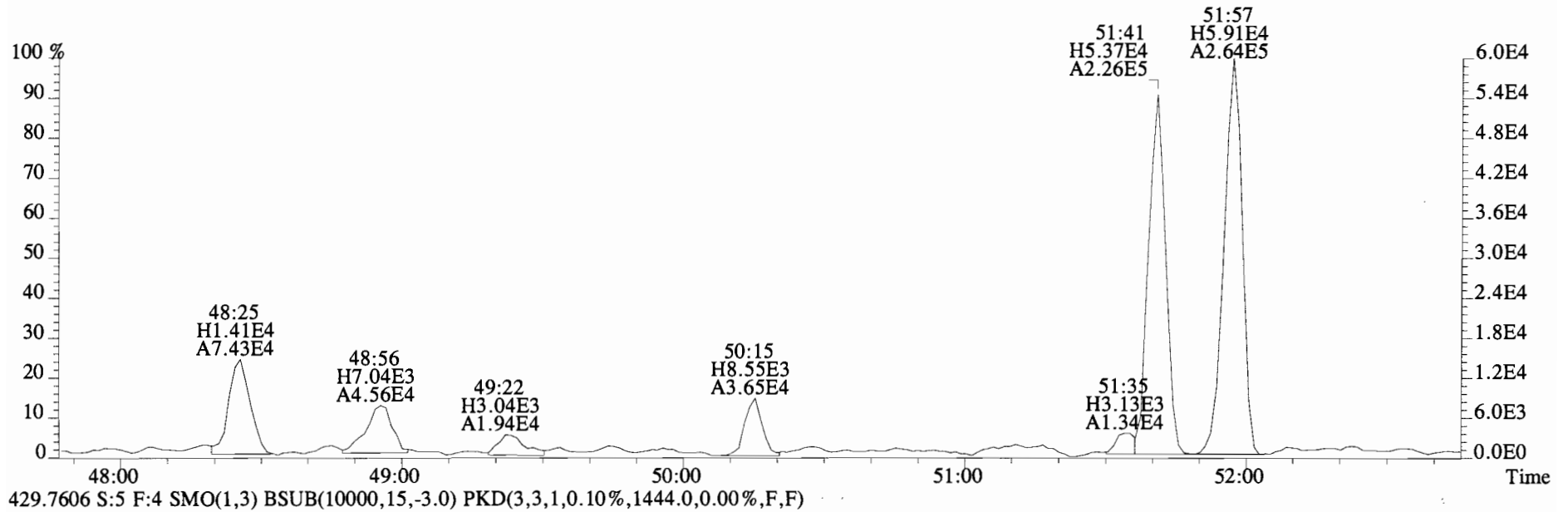




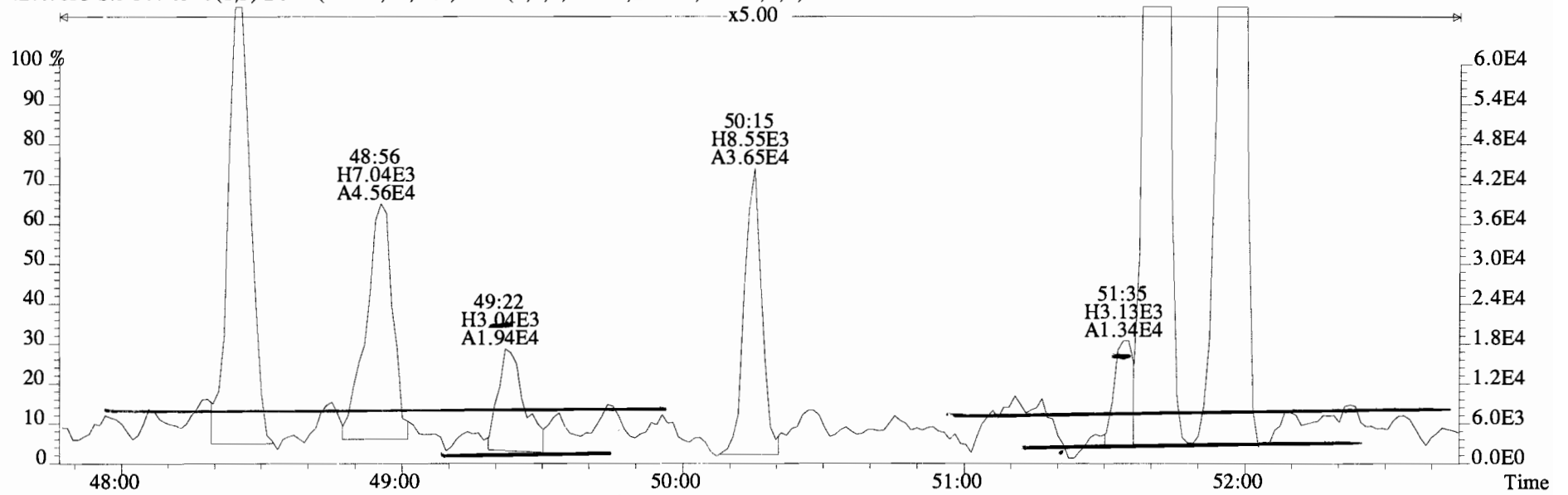
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1312.0,0.00%,F,F)



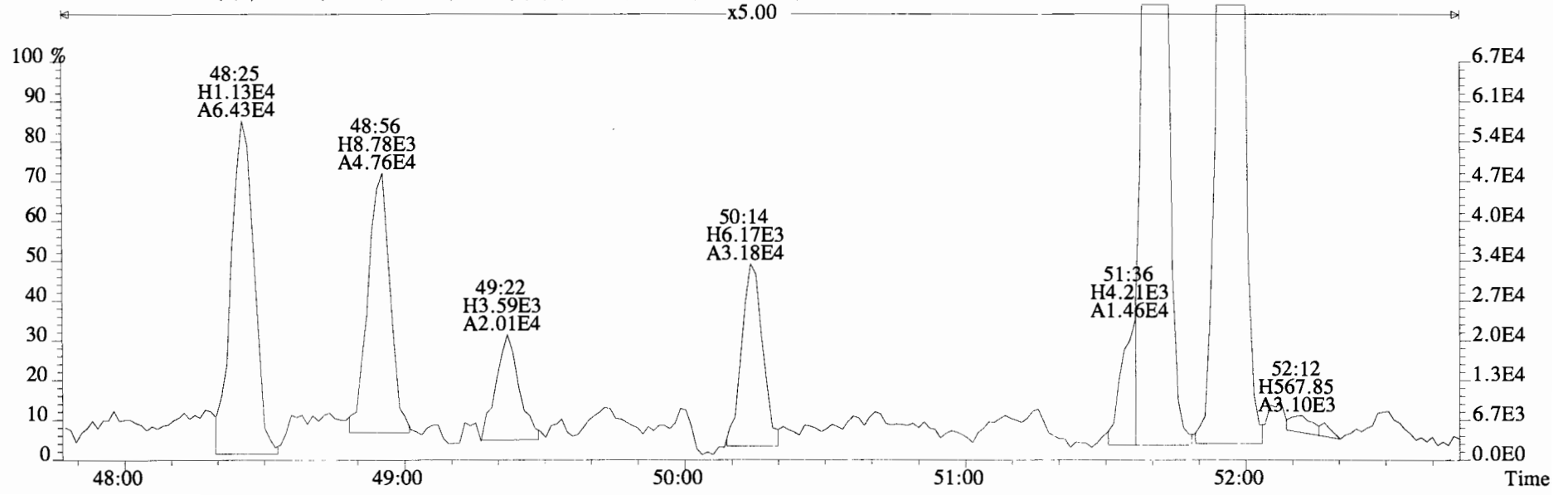
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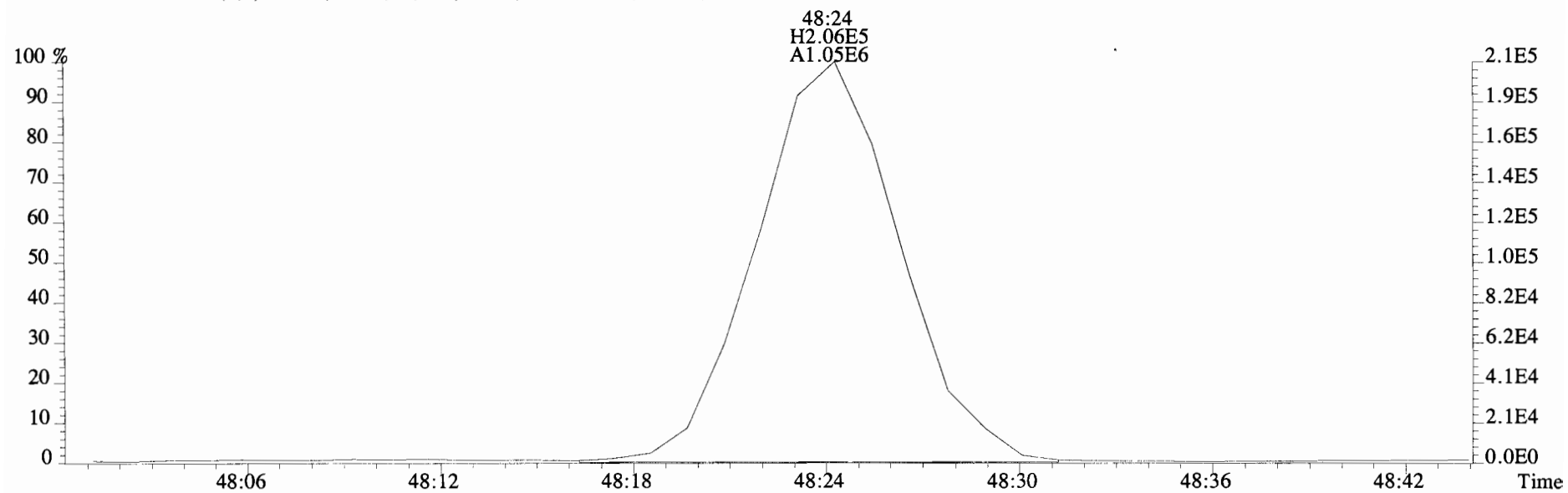
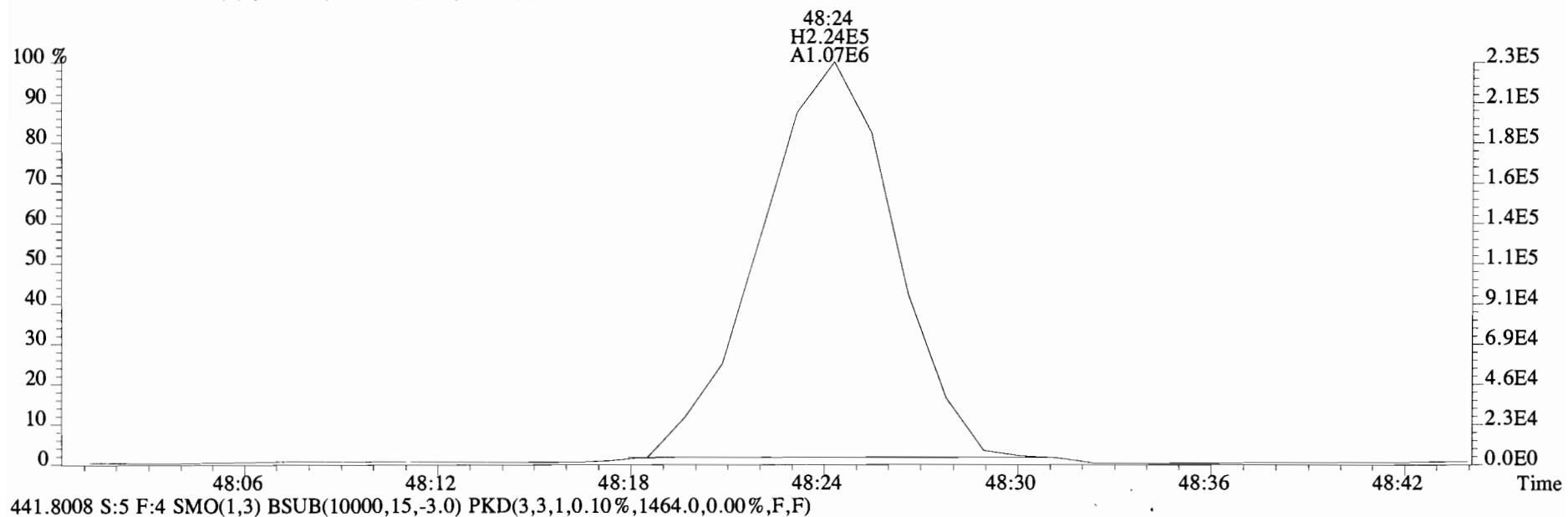
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
 427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1312.0,0.00%,F,F)



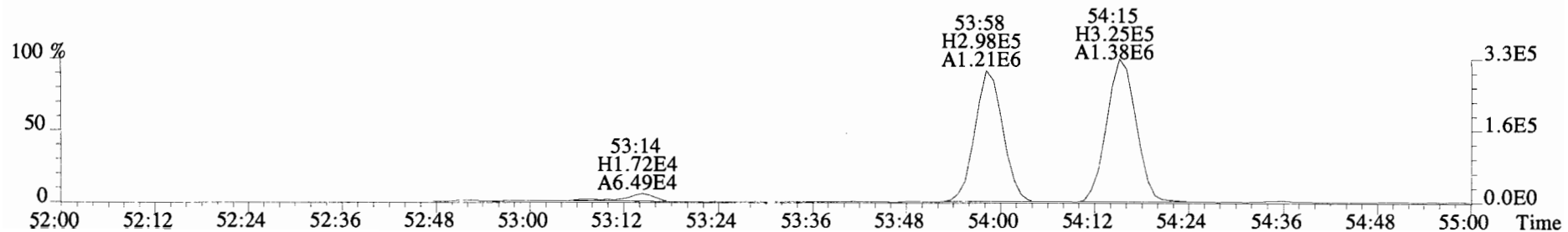
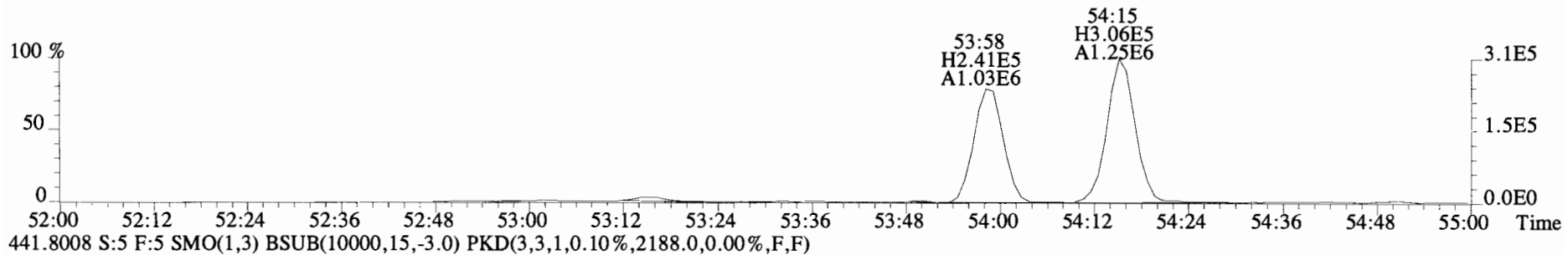
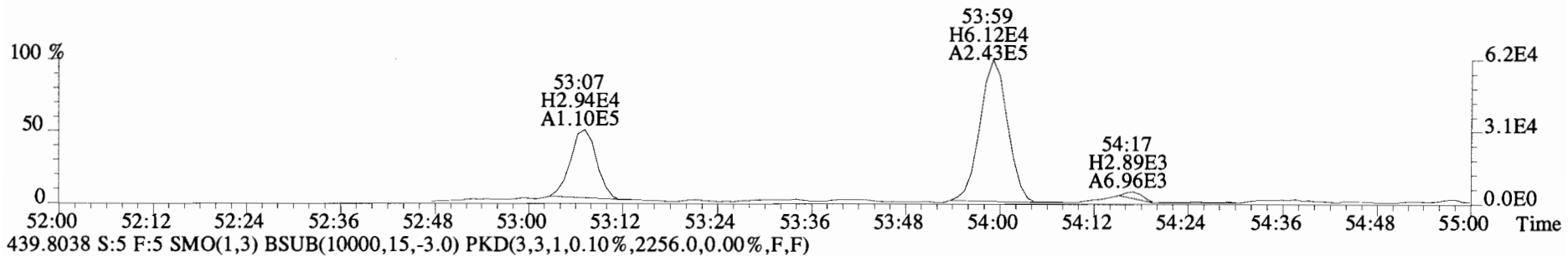
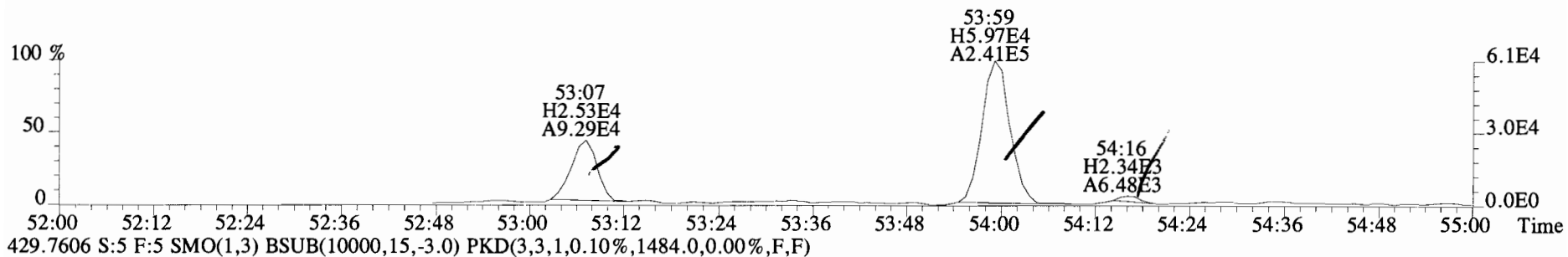
429.7606 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



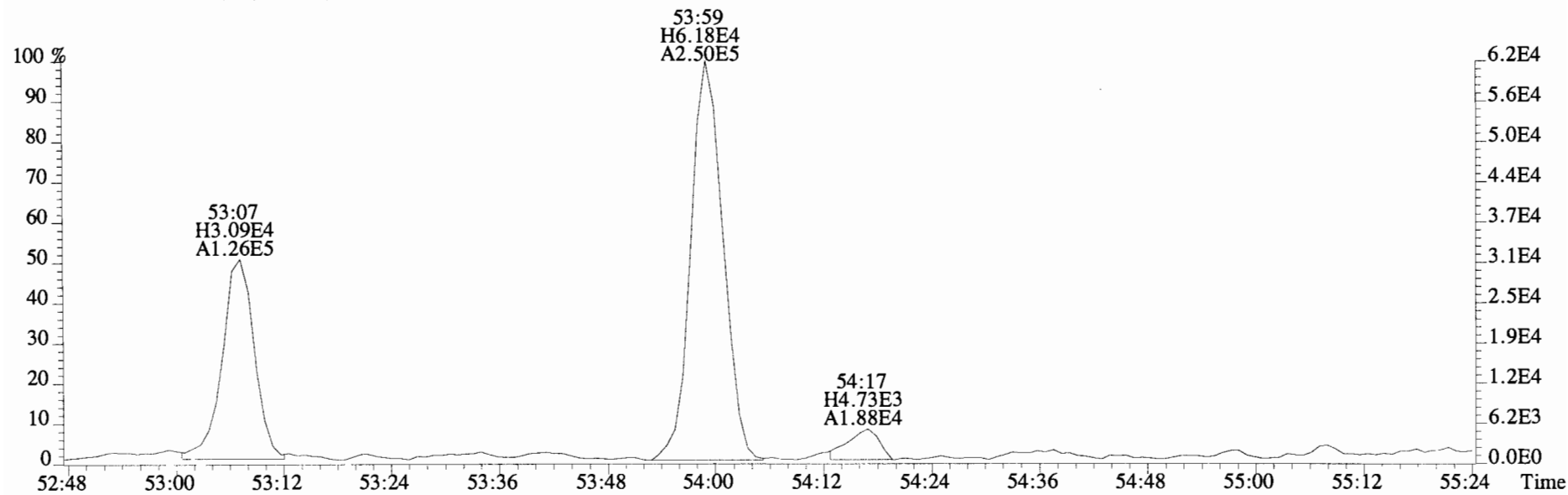
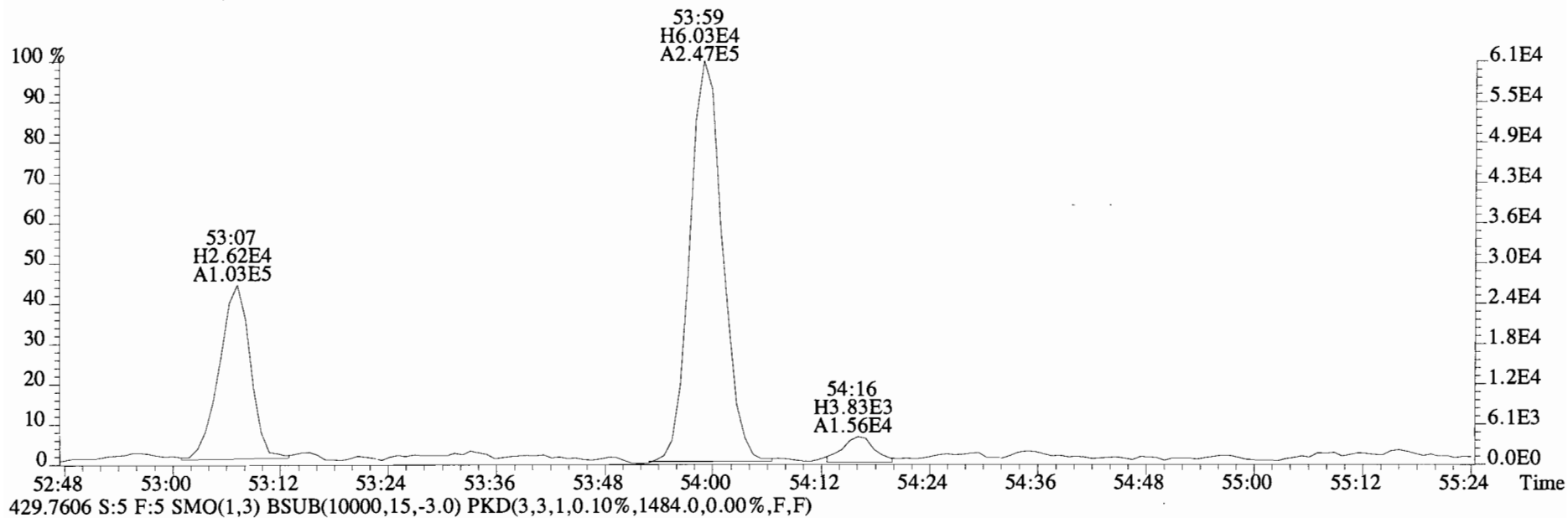
File:141002E1 #1-560 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
439.8038 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1324.0,0.00%,F,F)



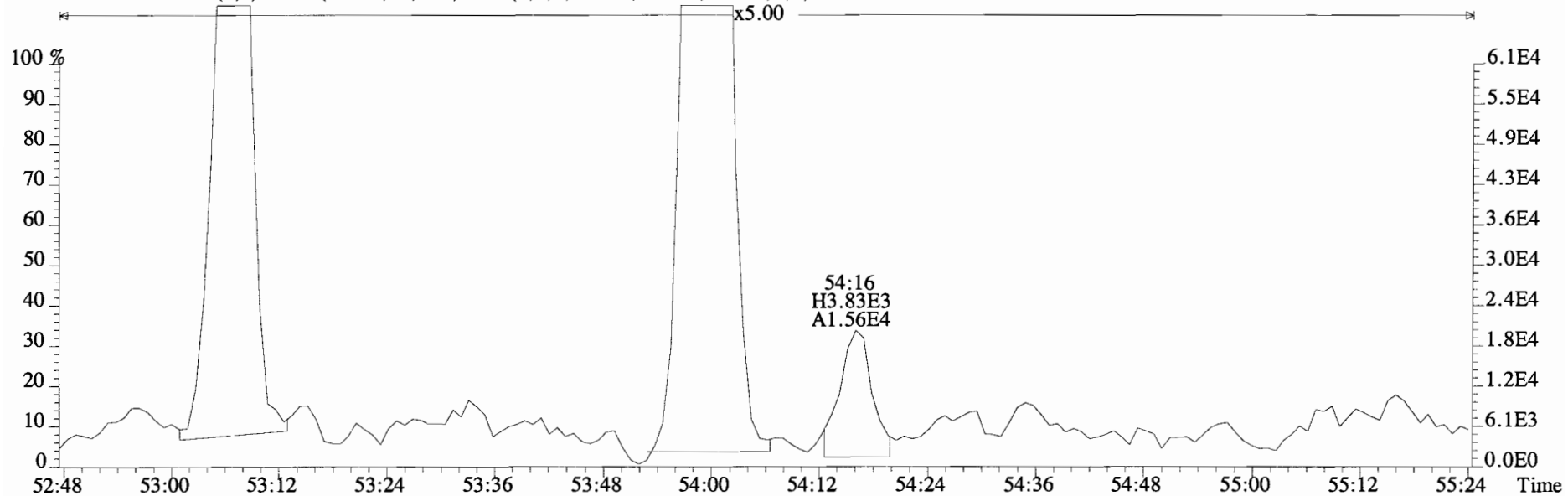
File:141002E1 #1-418 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



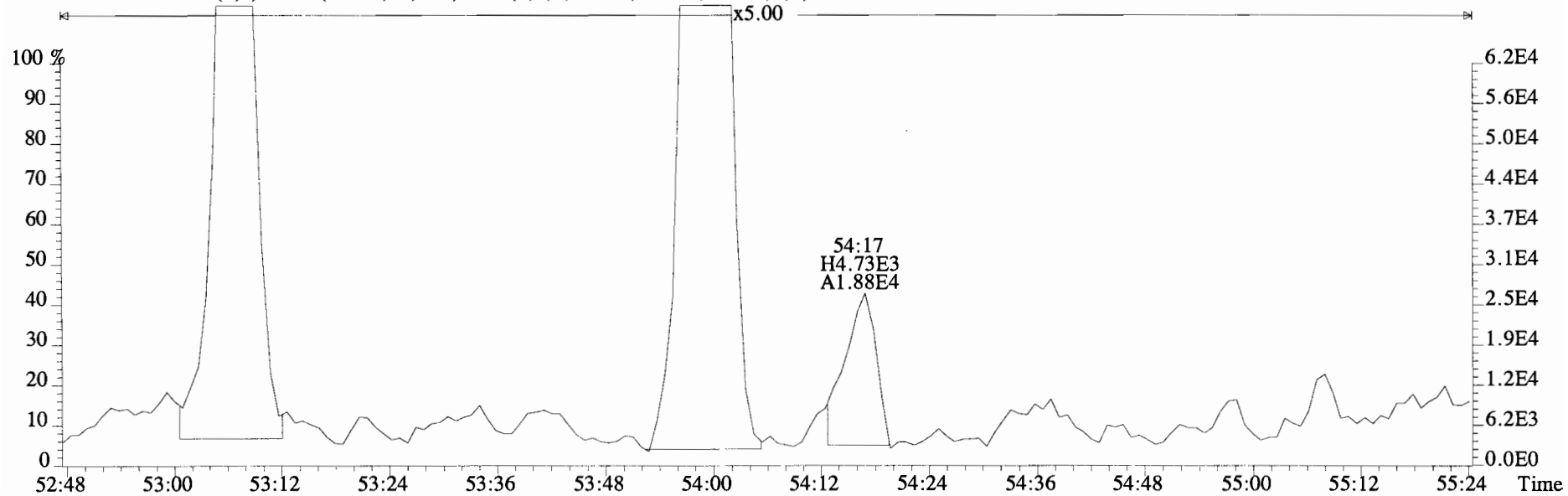
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Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



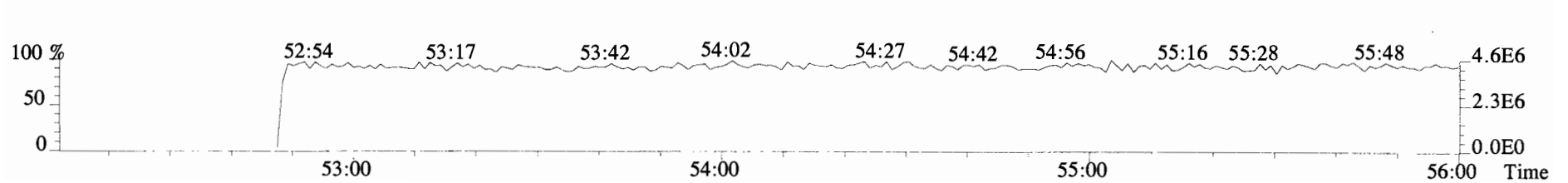
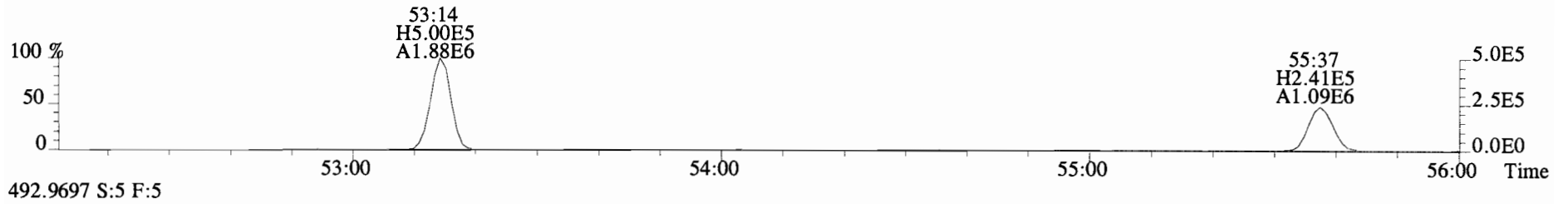
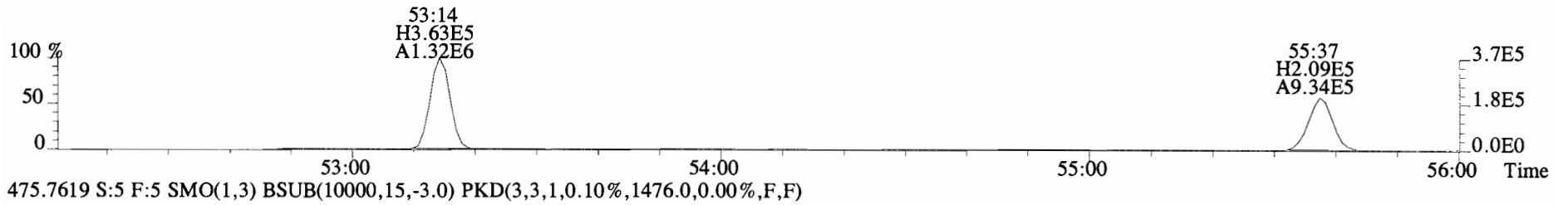
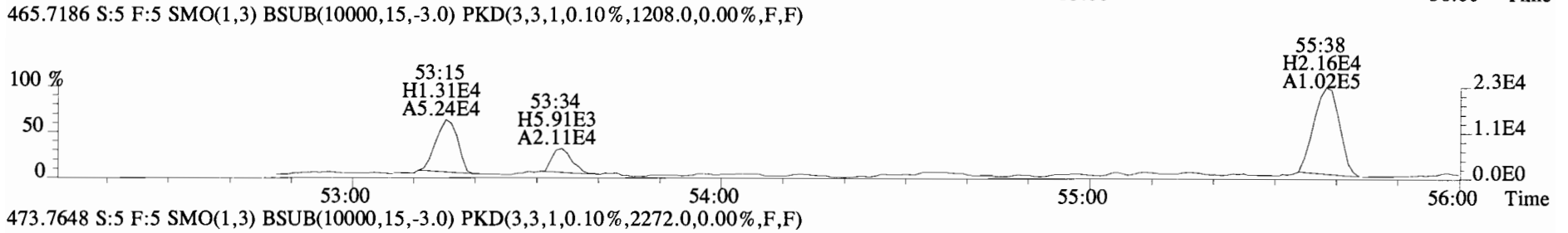
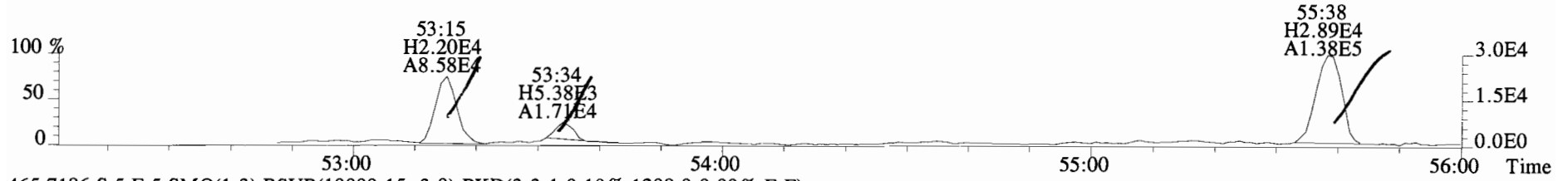
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



429.7606 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)

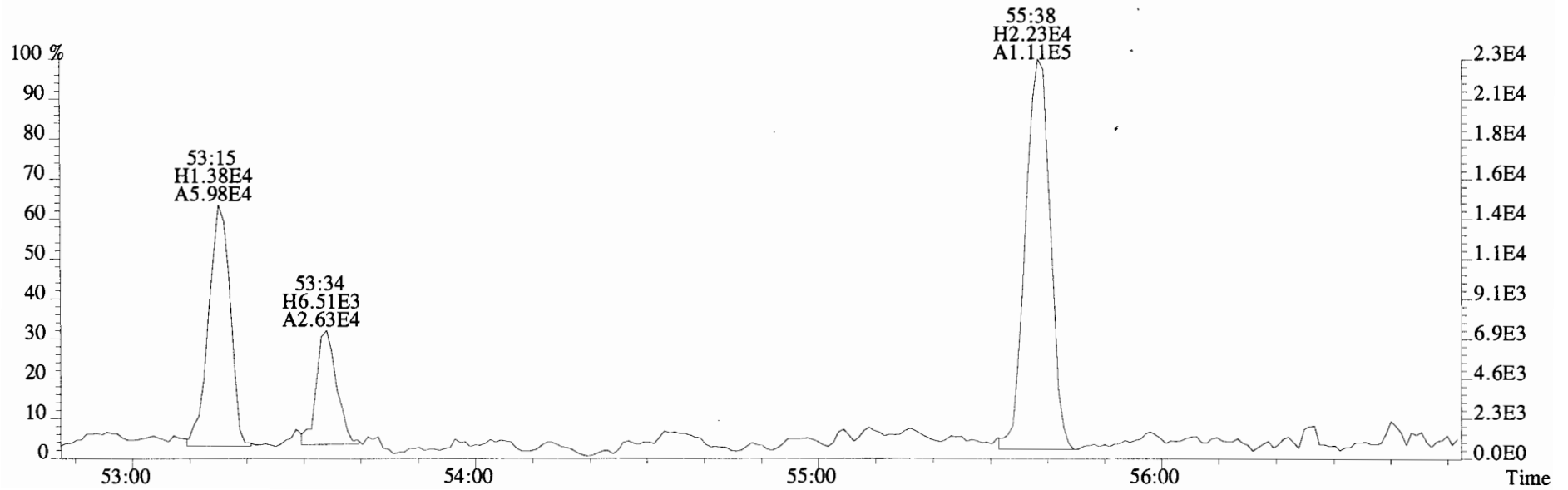
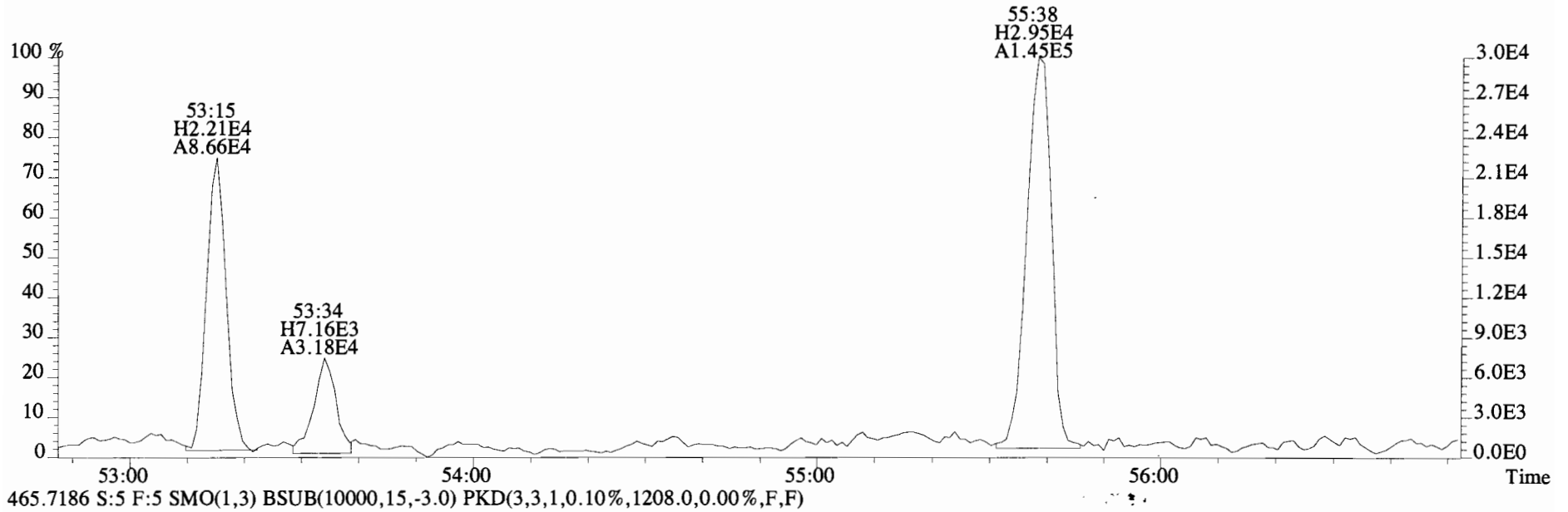


File:141002E1 #1-418 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1252.0,0.00%,F,F)

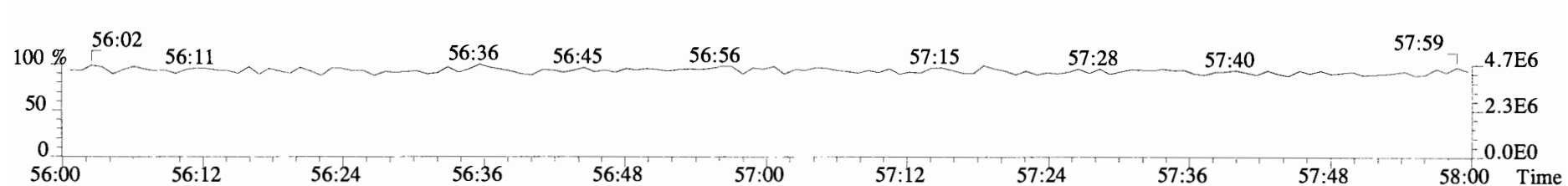
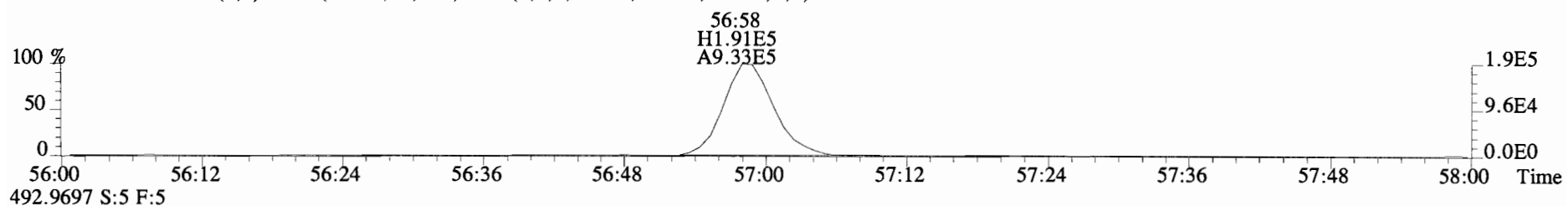
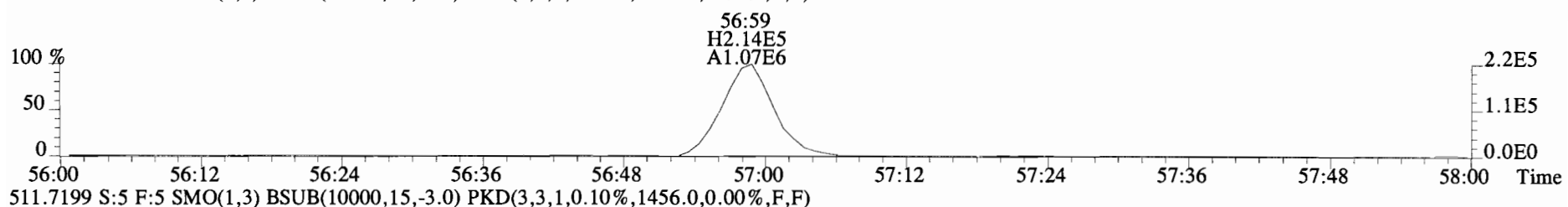
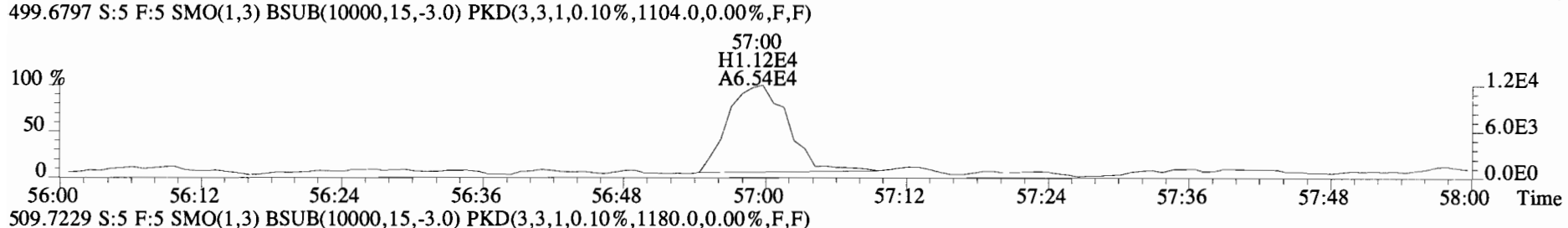
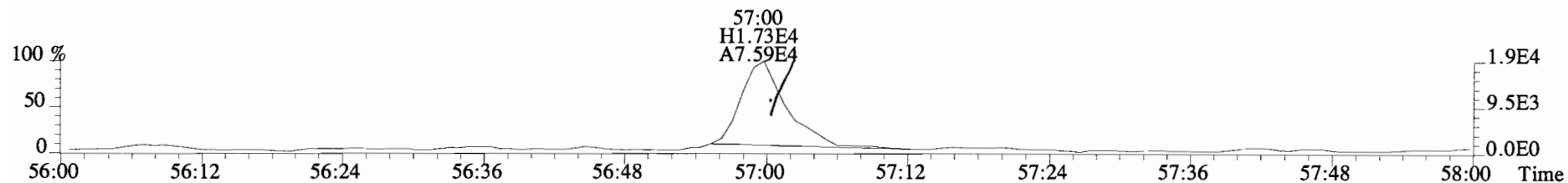




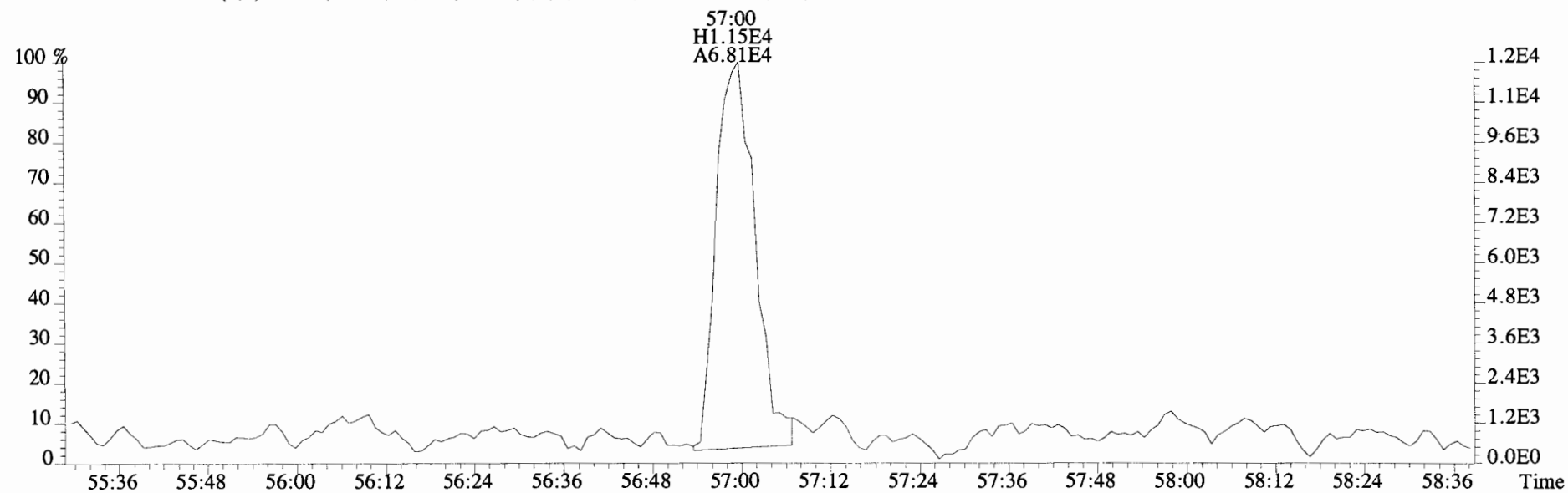
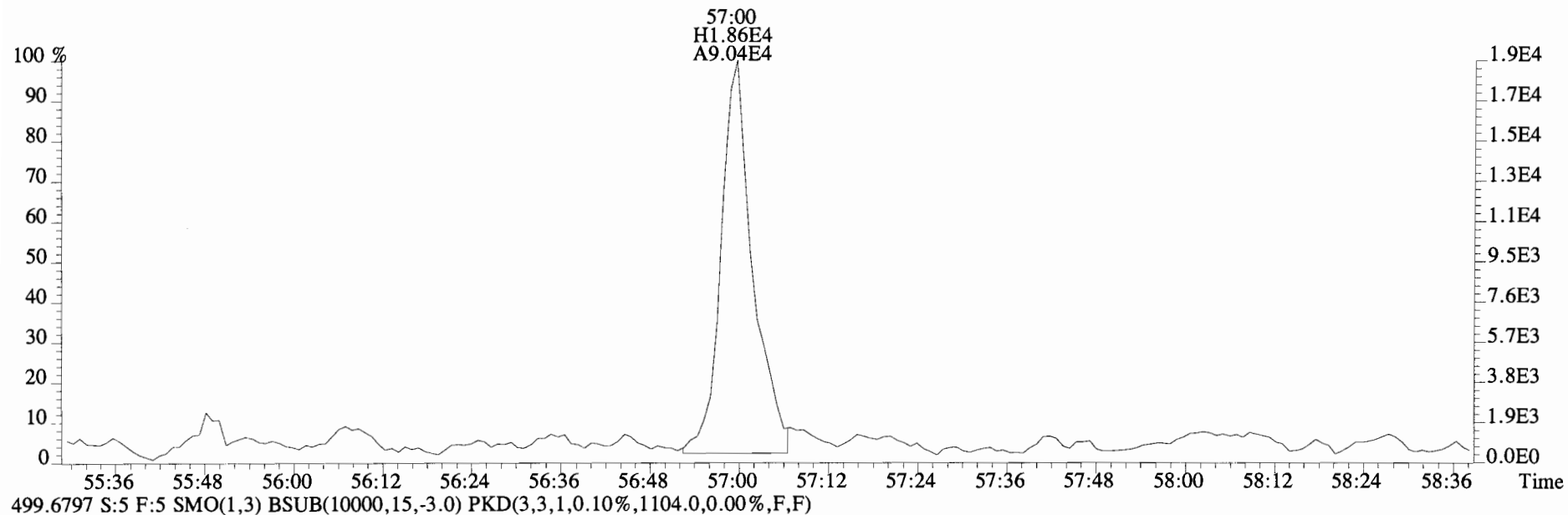
File:141002E1 #1-418 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1252.0,0.00%,F,F)



File:141002E1 #1-418 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



File:141002E1 #1-418 Acq: 2-OCT-2014 14:17:11 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400668-03RE2 DL 1:100 CS-CB-01-20140903-S RX Exp:PCB\_ZB1  
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



## **CONFIRMATION**

Client ID: CS-CB-01-20140903-S  
Lab ID: 1400668-03RE1

Filename: 140918D1 S:5 Acq:18-SEP-14 14:17:59  
GC Column ID: DB-225 ICal: 1613TCDFVG7-3-10-14 wt/vol:10.059

ConCal: ST140918D1-1  
EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	4.70e+07	0.77 y	15:27	1.00	198.8	-
13C-2,3,7,8-TCDF	3.22e+07	0.80 y	17:47	0.93	146.8	73.8
2,3,7,8-TCDF	5.74e+05	0.78 y	17:48	1.16	3.064	

Integrations

by  
Analyst: MM

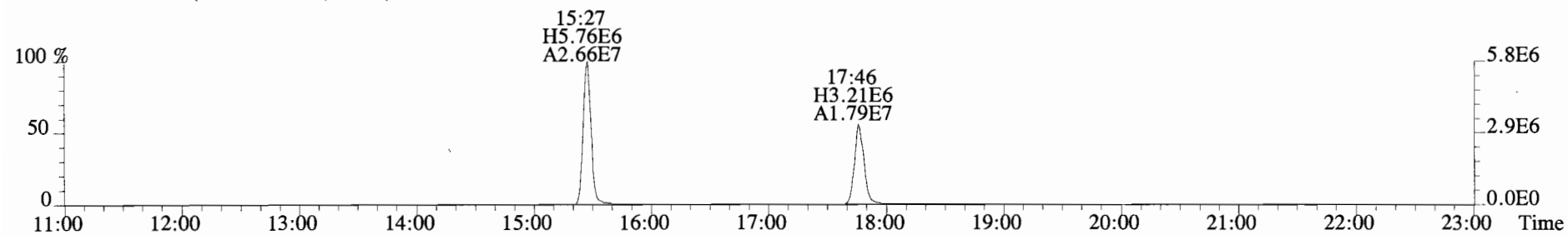
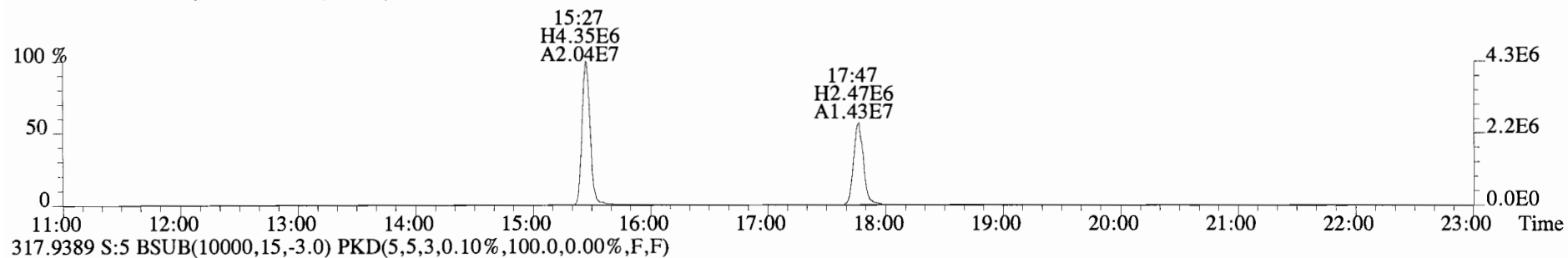
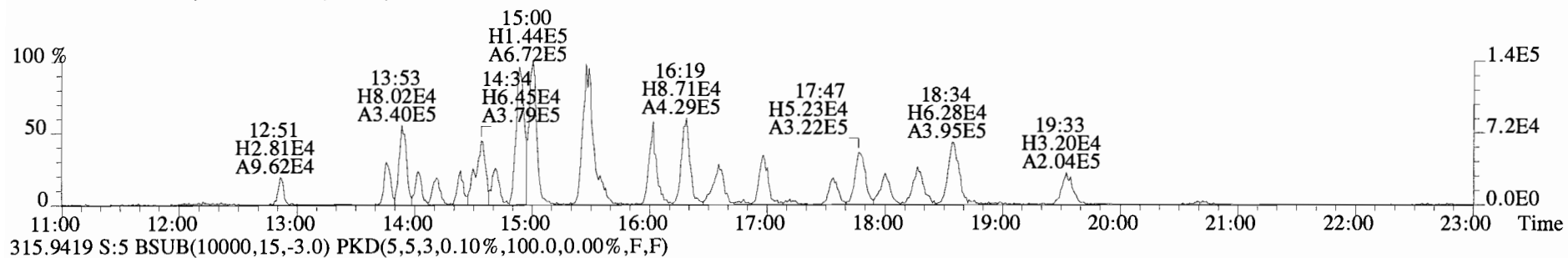
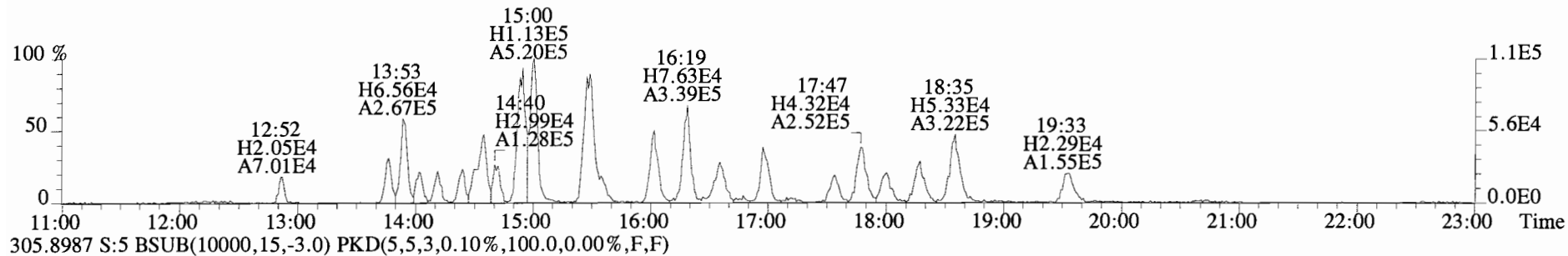
Date: 9/19/14

Reviewed

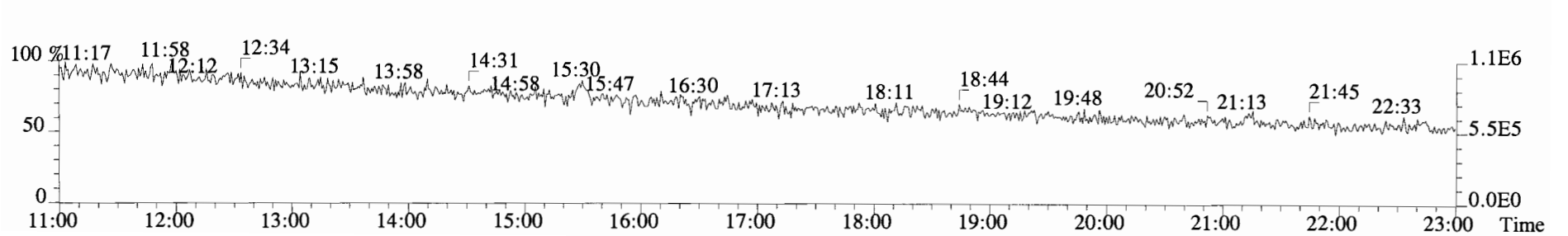
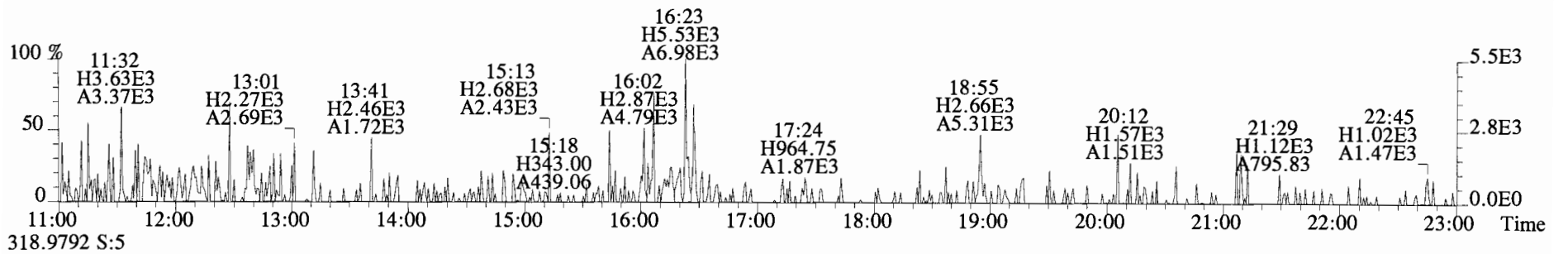
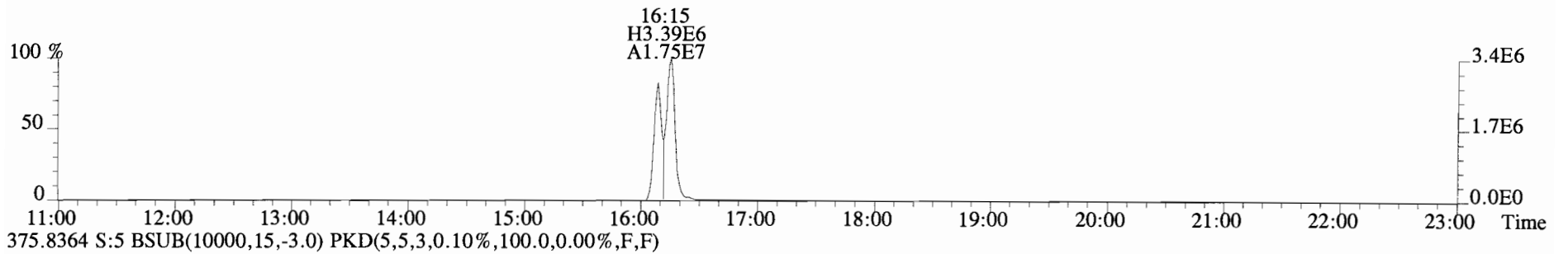
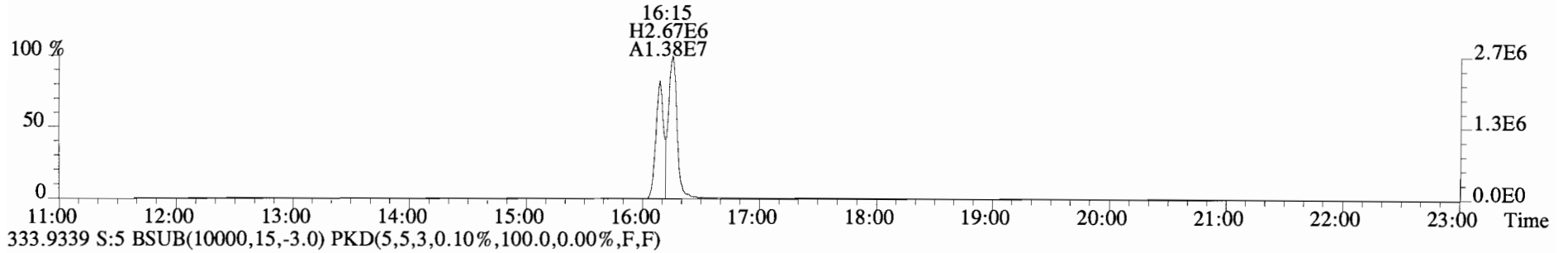
by  
Analyst: SP

Date: 9/20/14

File:140918D1 #1-1683 Acq:18-SEP-2014 14:17:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03RE1 CS-CB-01-20140903-S C 23.69 Exp:TCDF\_DB225  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140918D1 #1-1683 Acq:18-SEP-2014 14:17:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400668-03RE1 CS-CB-01-20140903-S C 23.69 Exp:TCDF\_DB225  
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



**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	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
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)

&lt;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

Page 2 of 2

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	96.1				
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"/>

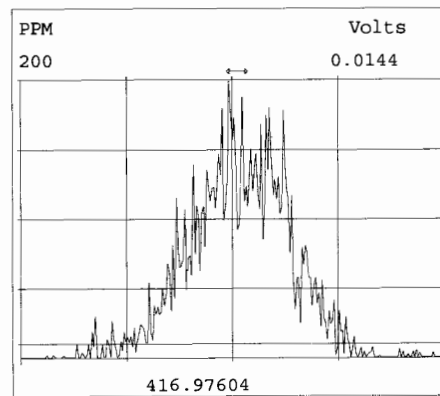
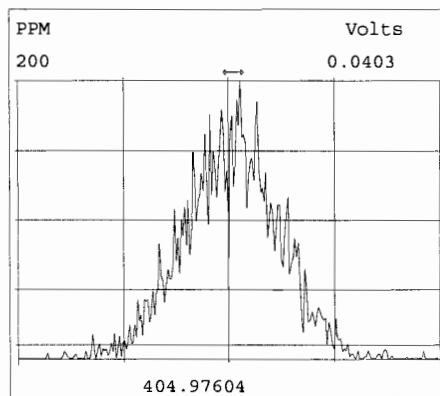
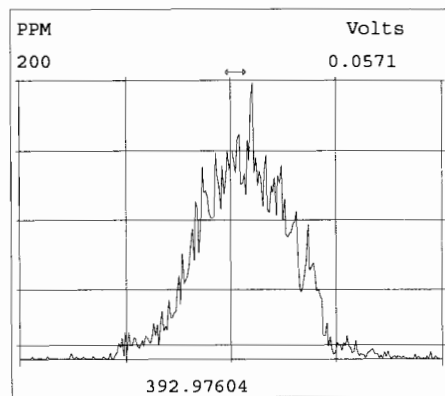
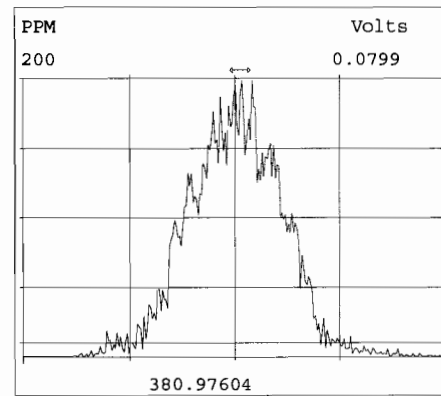
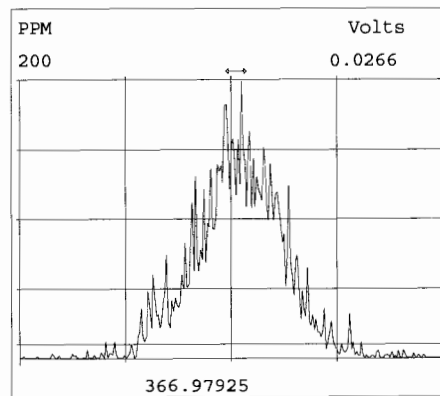
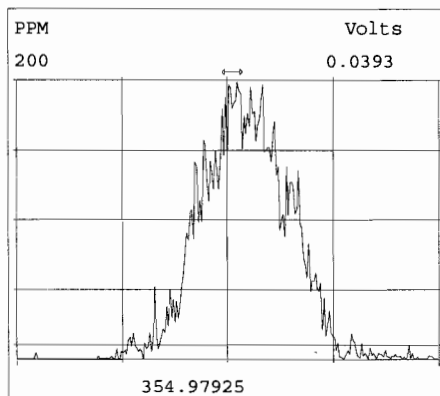
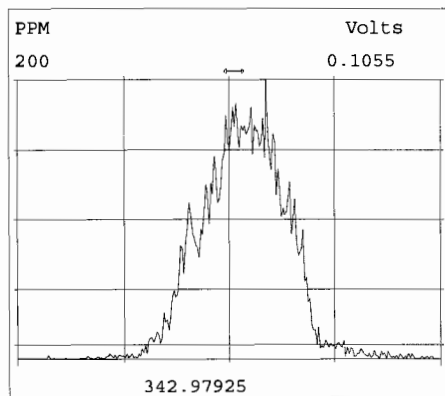
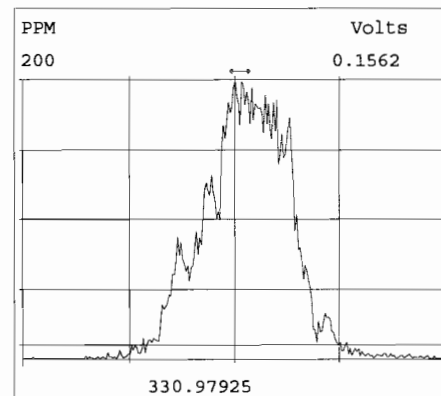
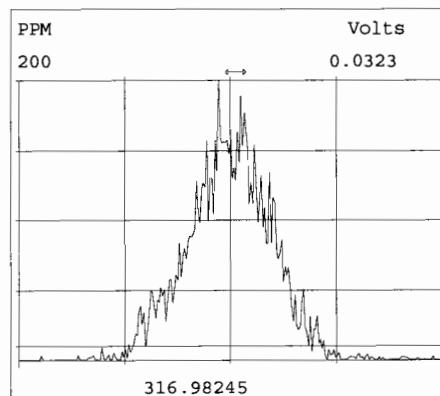
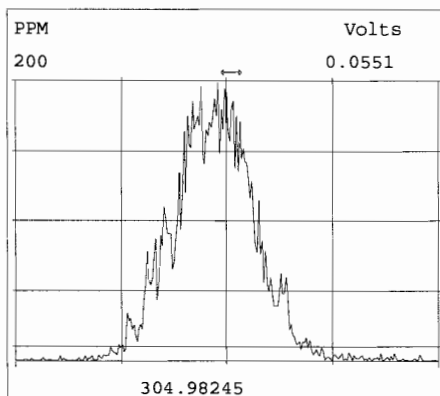
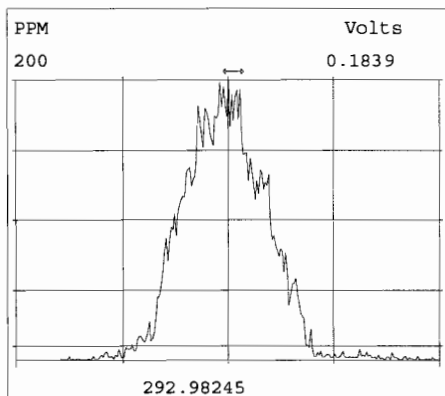
*Comments:*

Reviewed by: [Signature] 9/18/14  
*Initials & Date*

\* Ending standard criteria applicable to 8290 only.

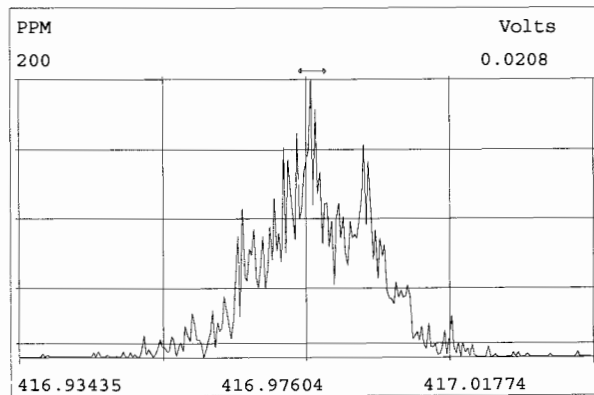
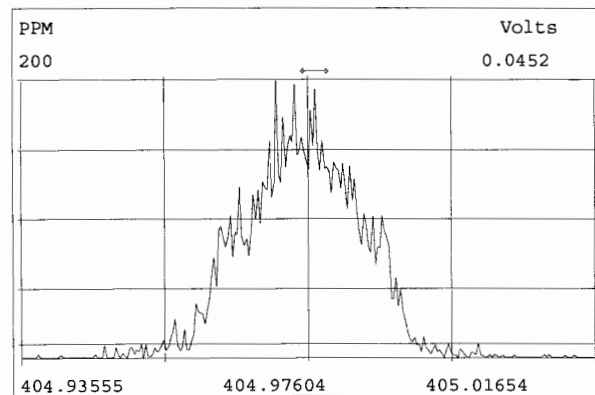
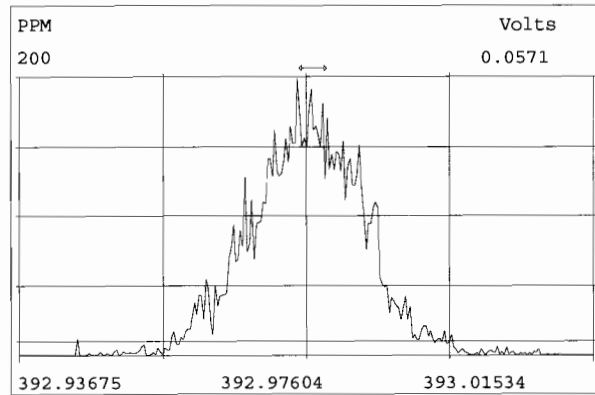
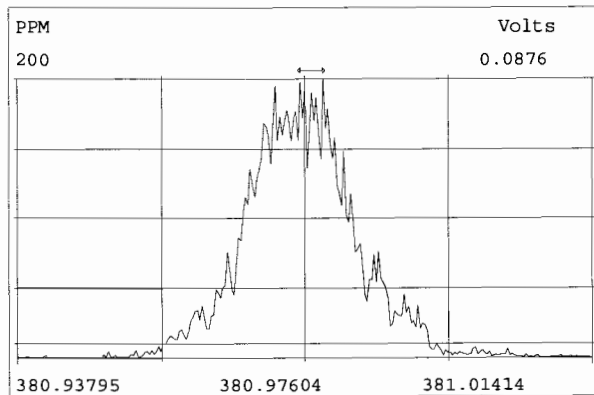
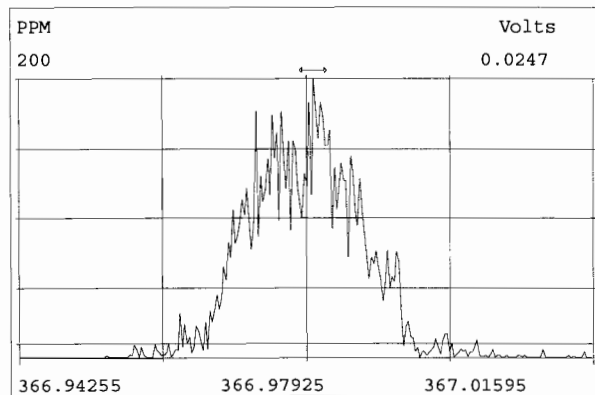
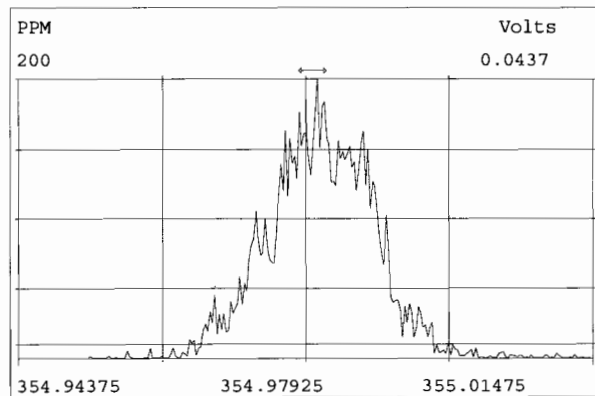
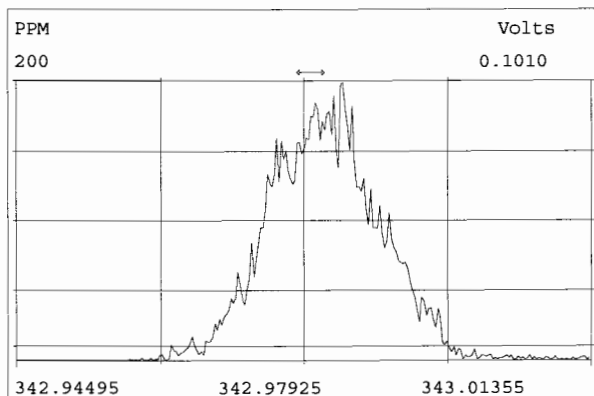
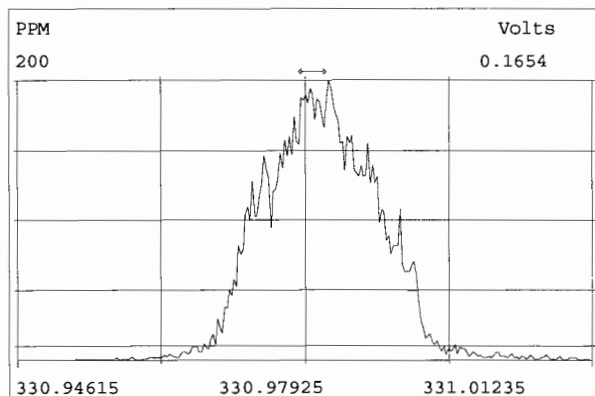
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 El Dorado Hills, CA 95762

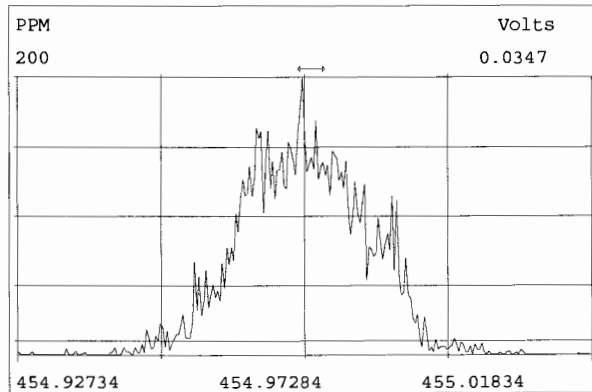
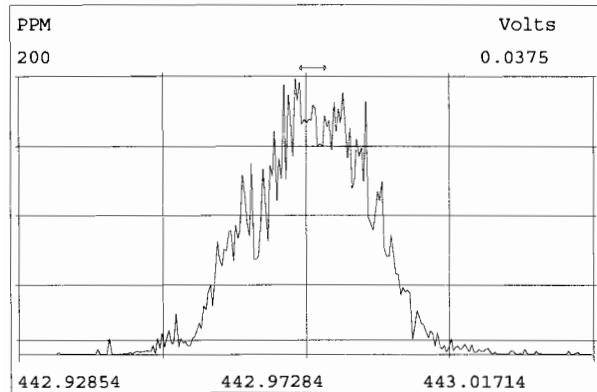
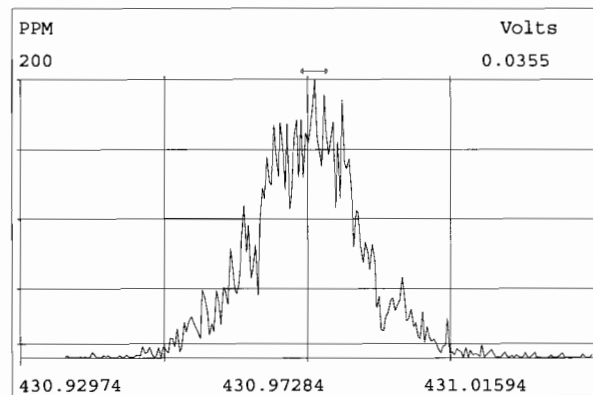
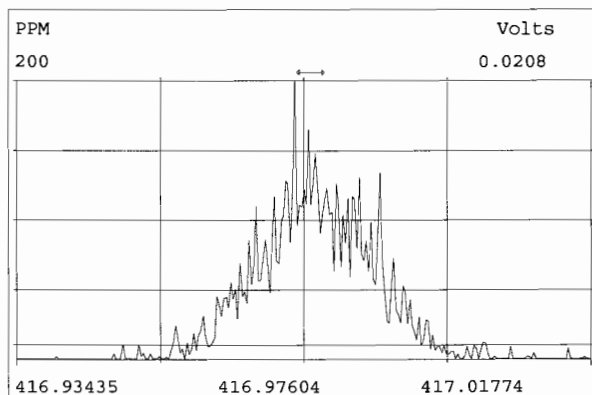
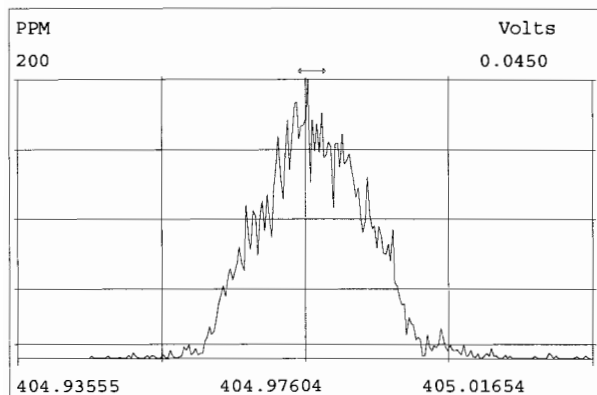
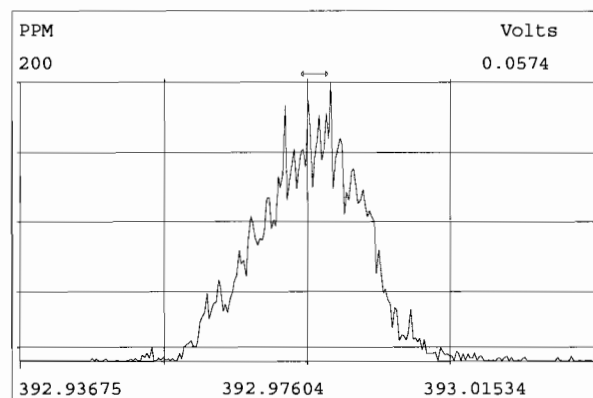
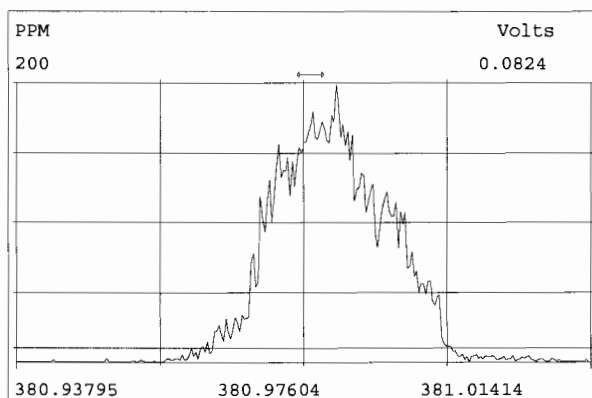
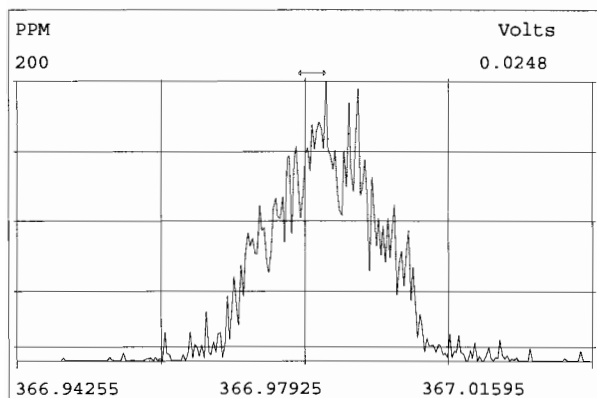


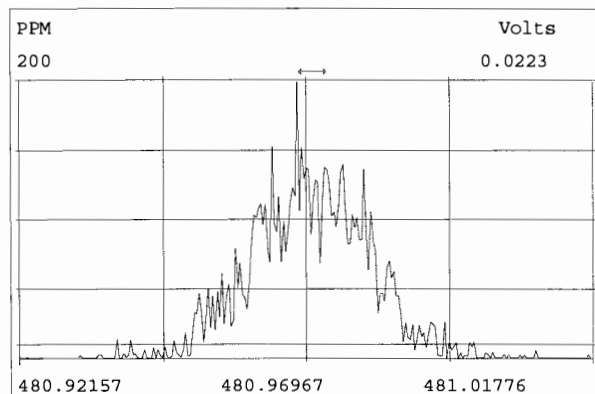
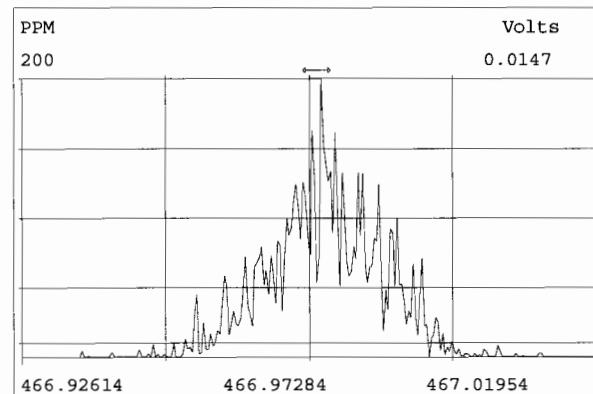
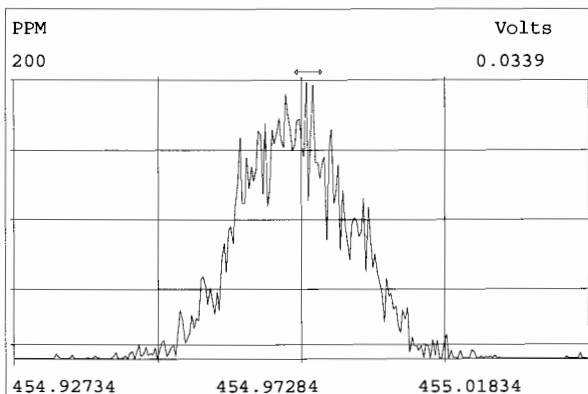
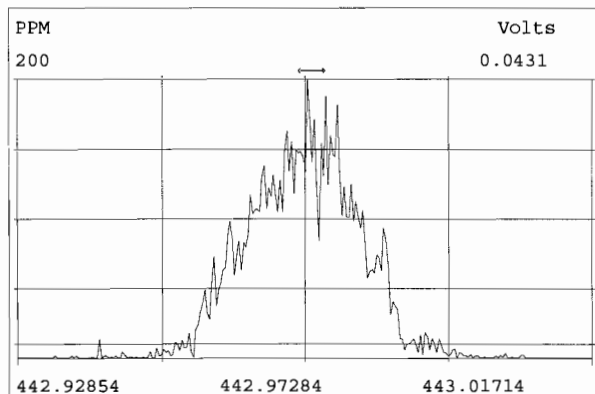
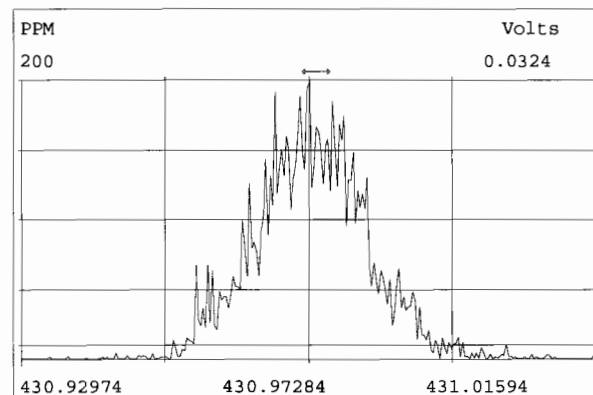
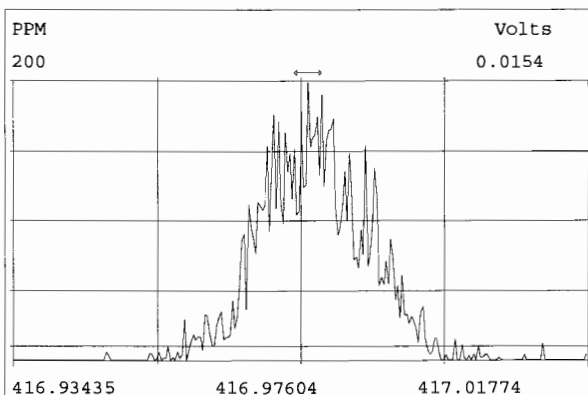
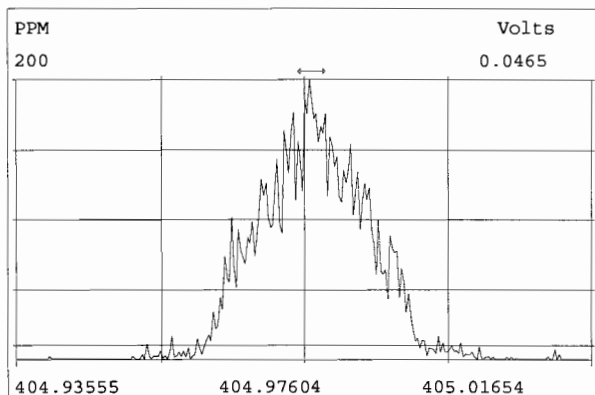


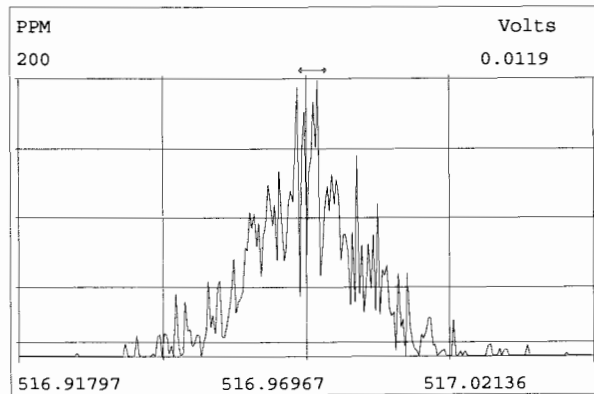
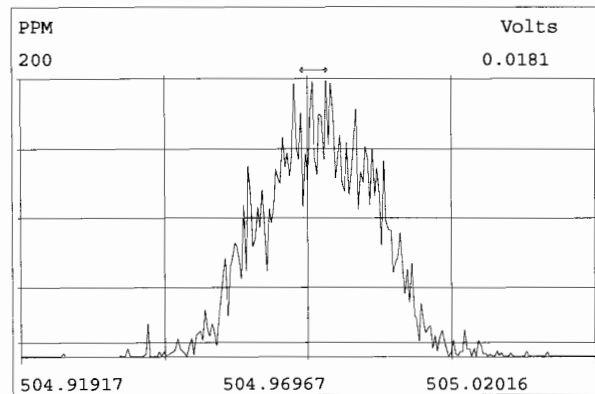
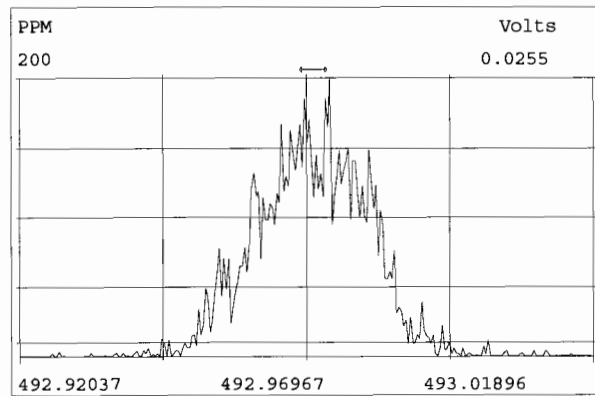
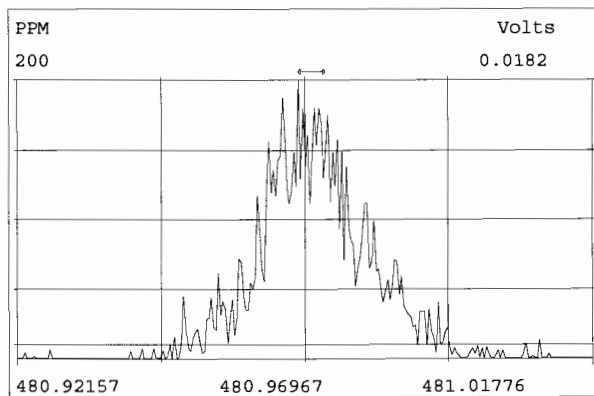
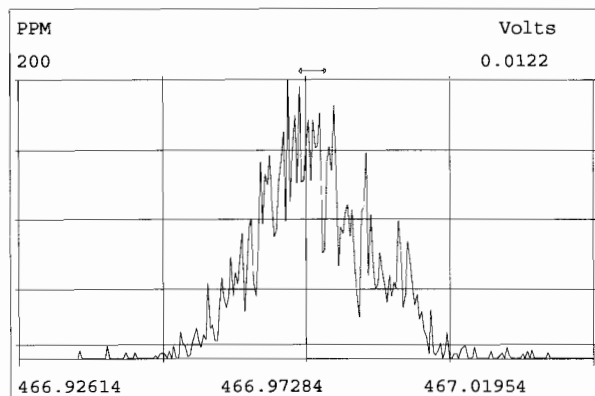
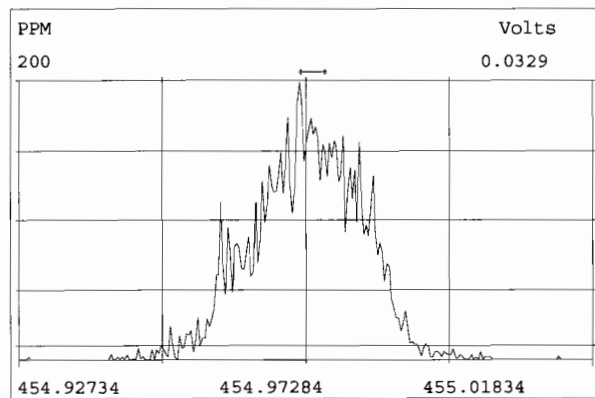
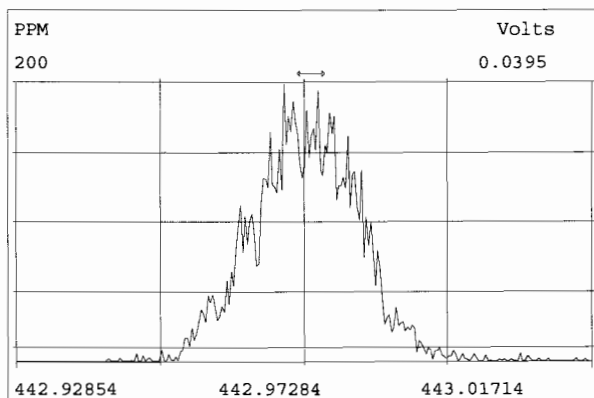
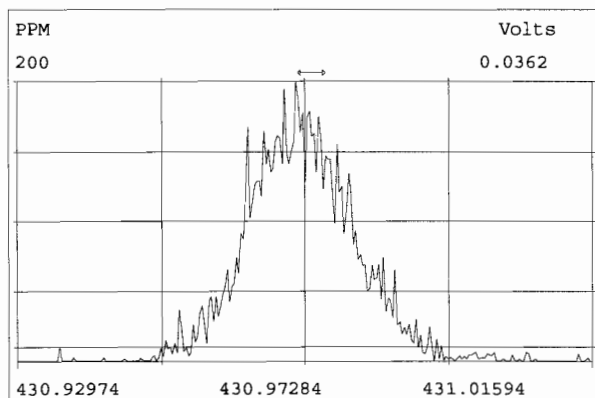
Peak Locate Examination:17-SEP-2014:13:09 File:140917D1

Experiment:OCDD\_DB5 Function:2 Reference:PFK

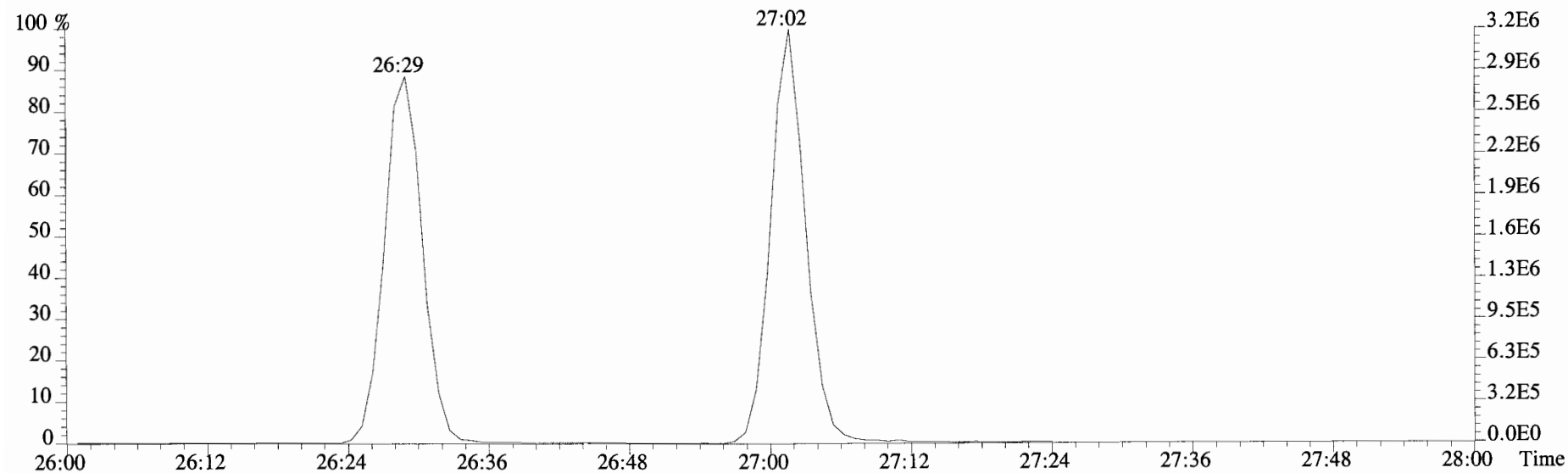
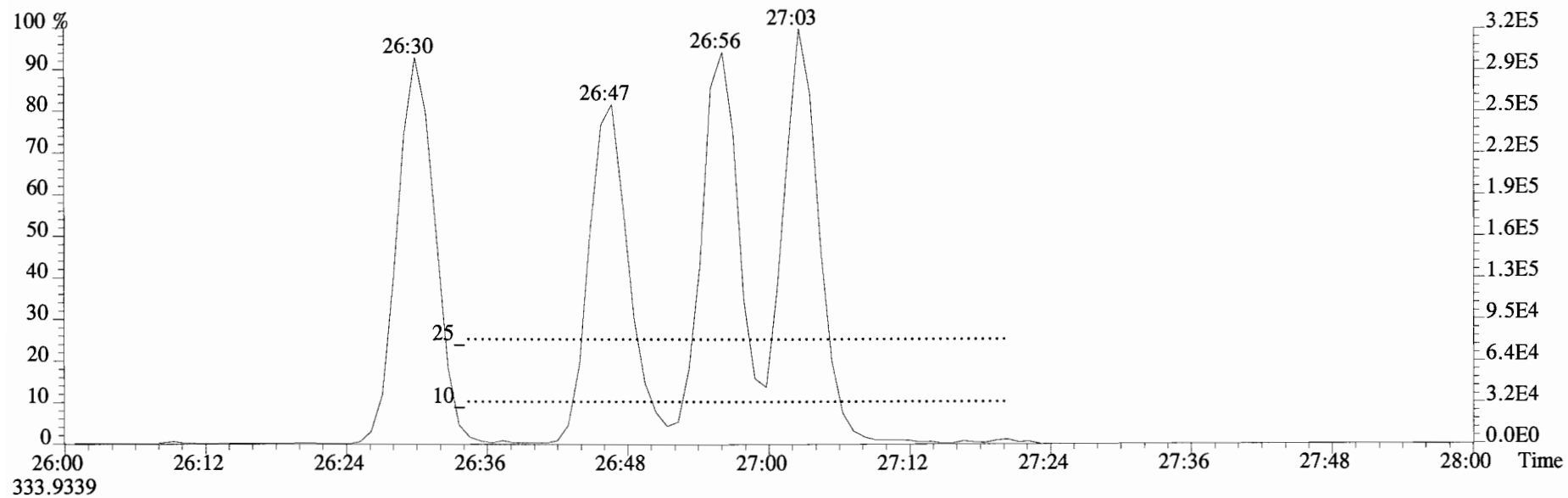




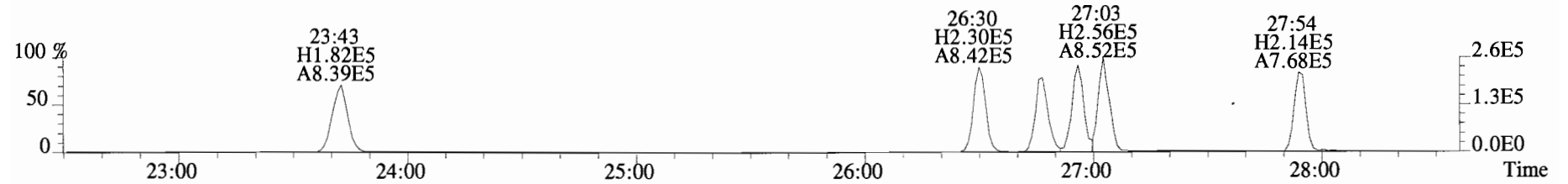




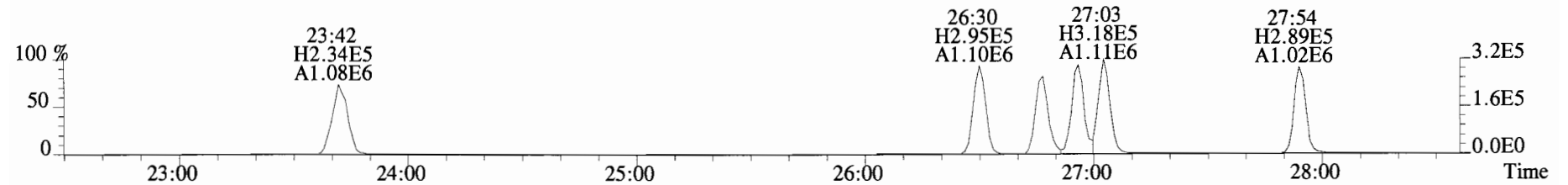
File:140917D1 #1-458 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
321.8936



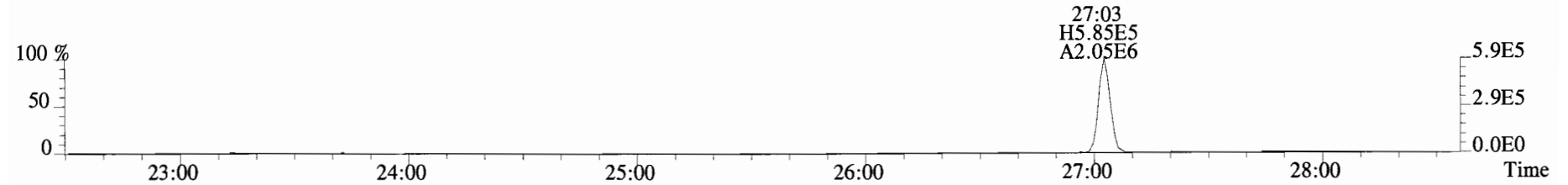
File:140917D1 #1-551 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



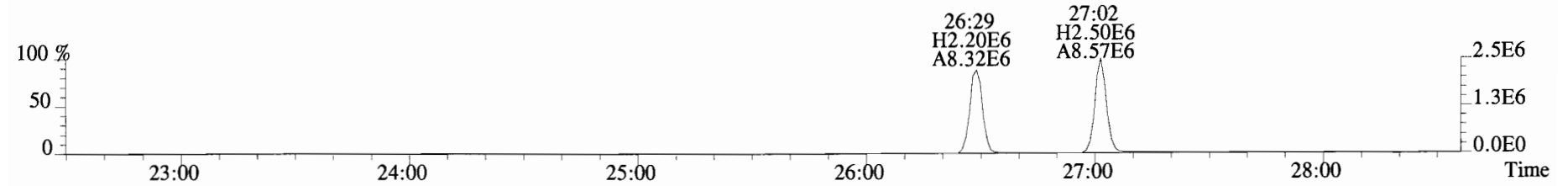
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



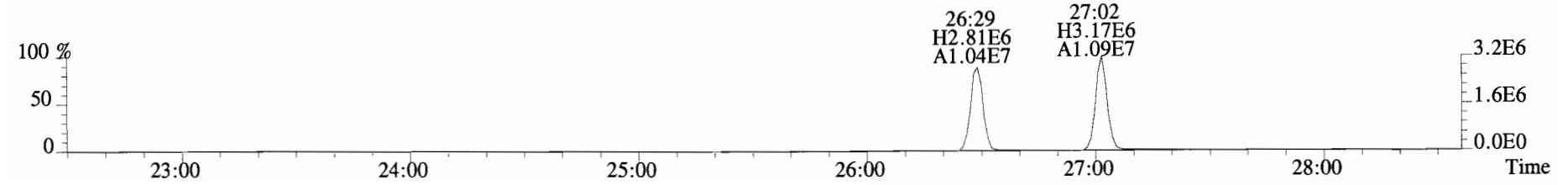
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



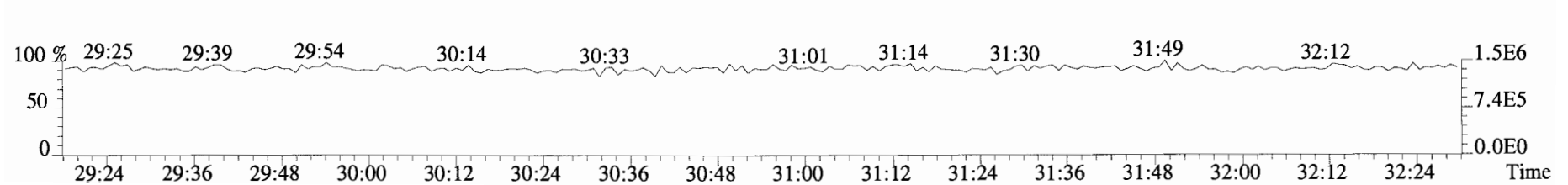
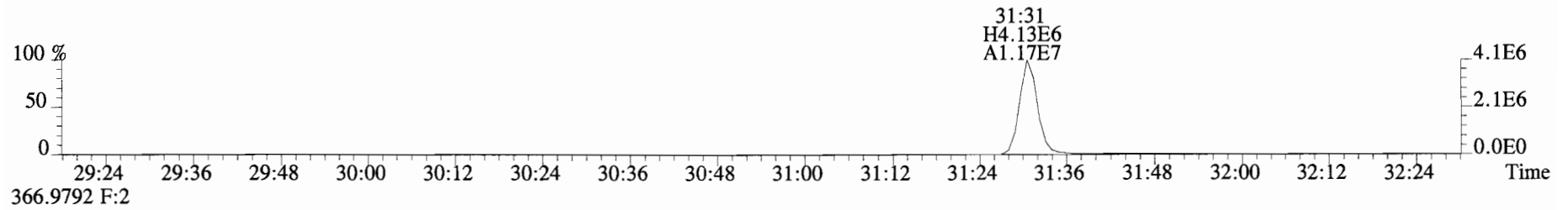
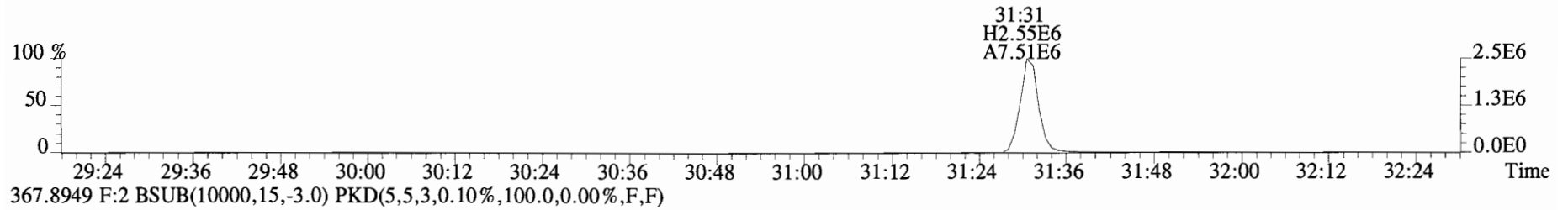
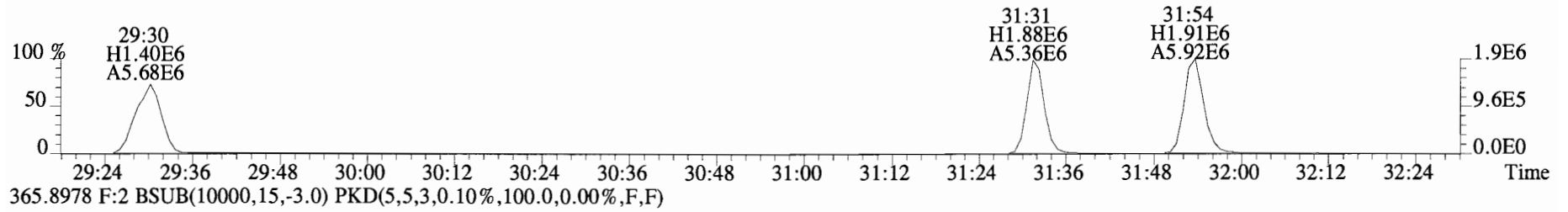
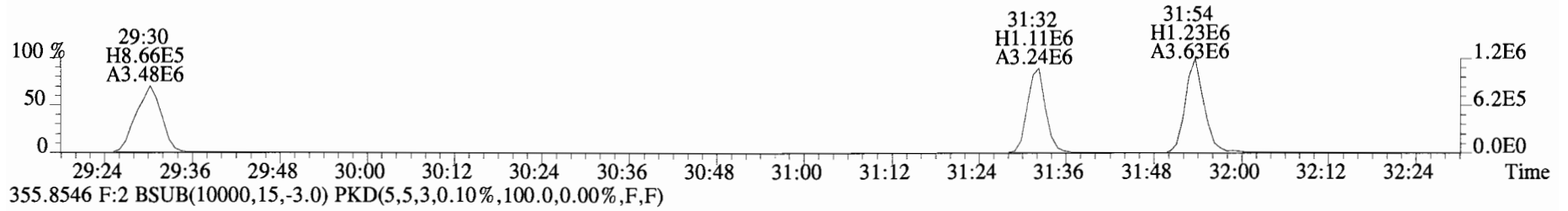
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

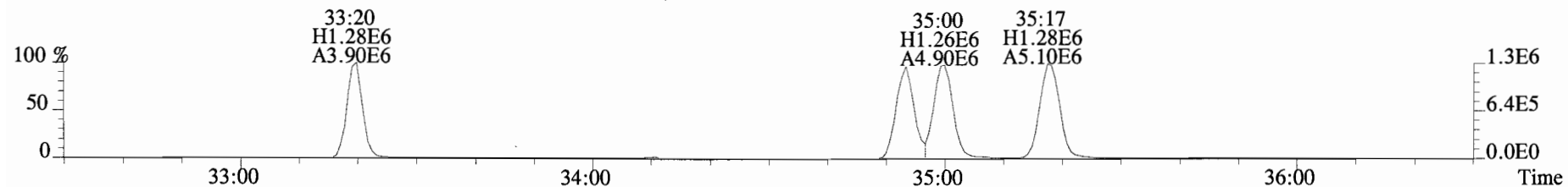


File:140917D1 #1-257 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

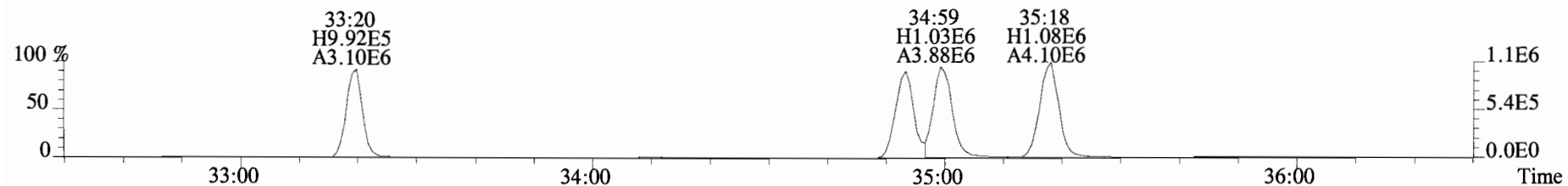




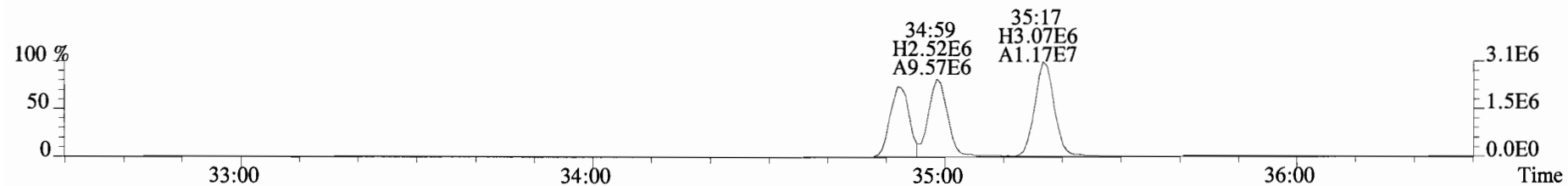
File:140917D1 #1-385 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



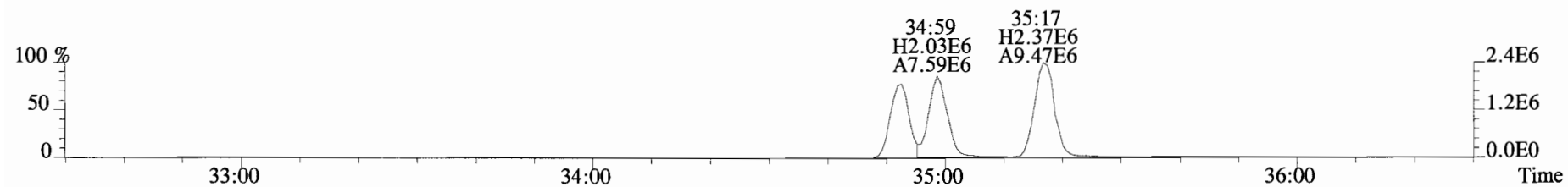
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



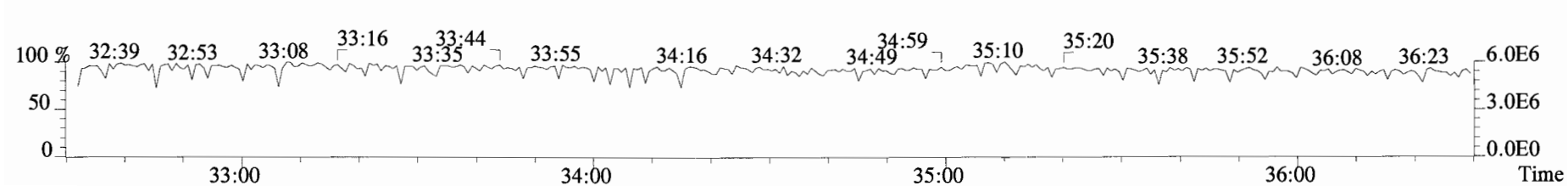
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



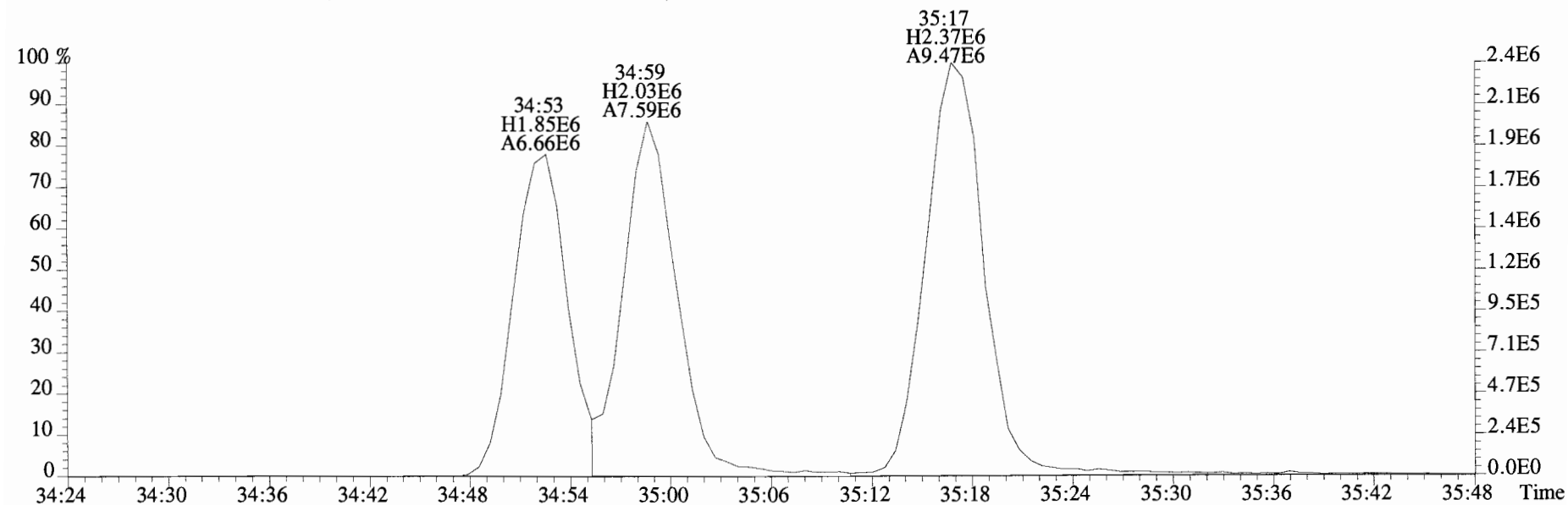
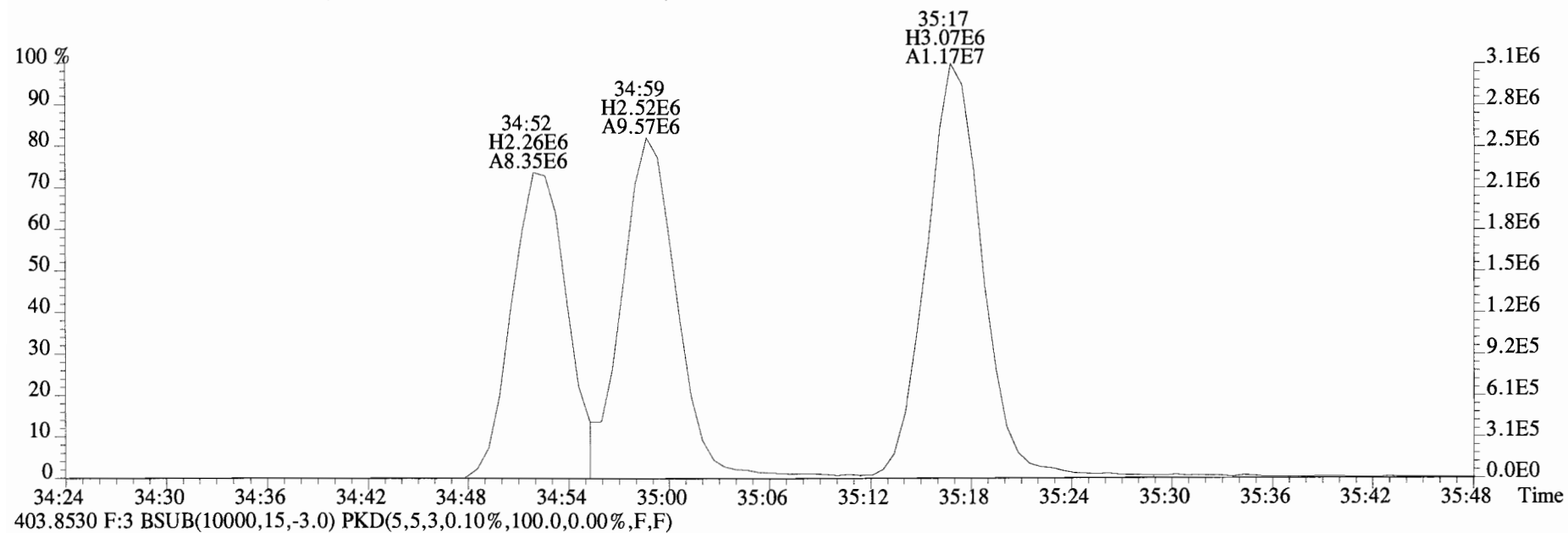
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



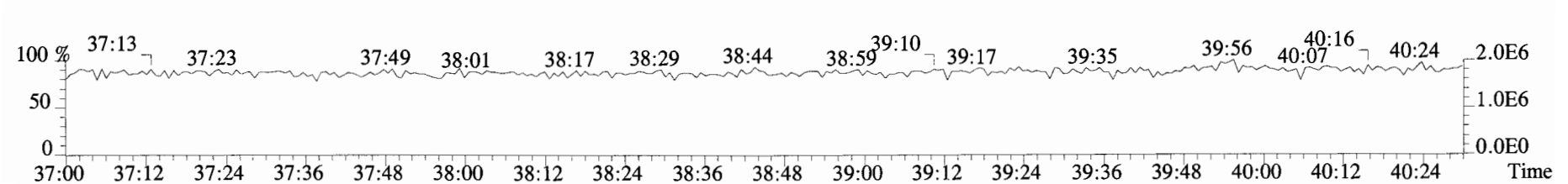
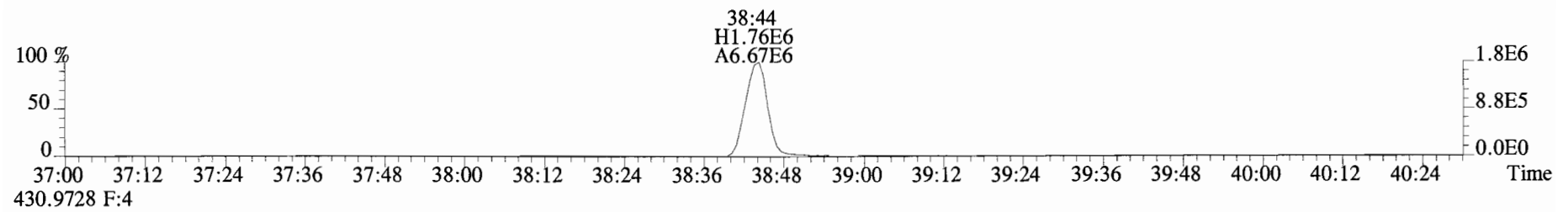
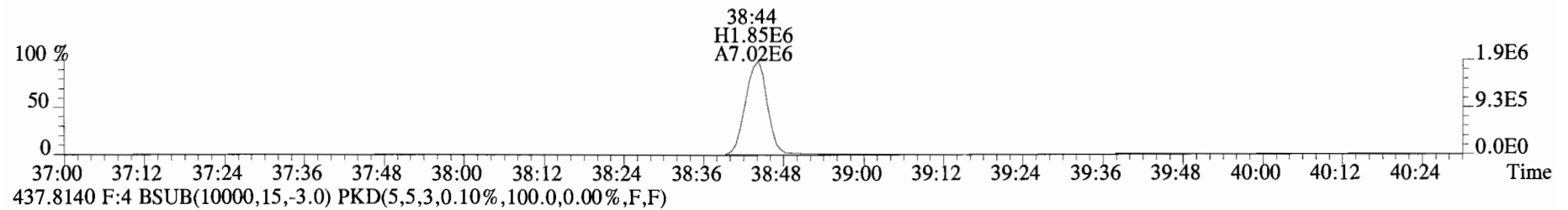
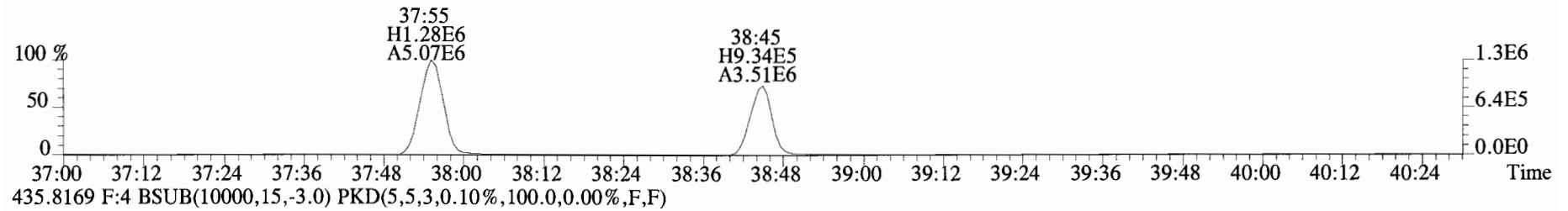
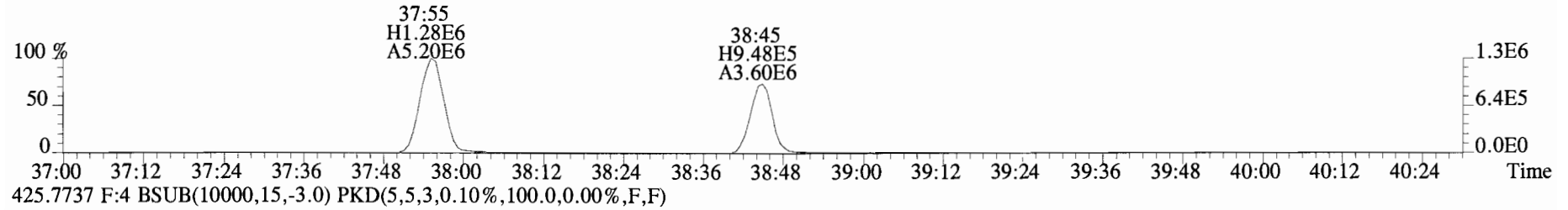
380.9760 F:3



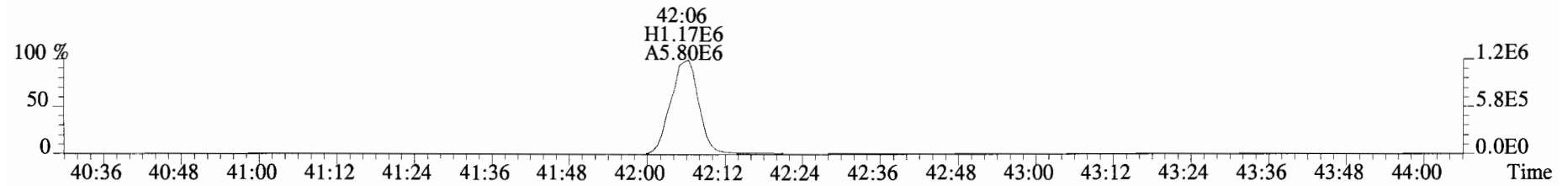
File:140917D1 #1-385 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



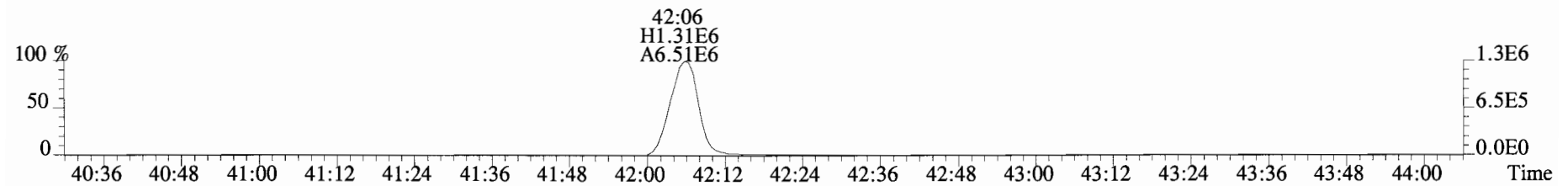
File:140917D1 #1-326 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



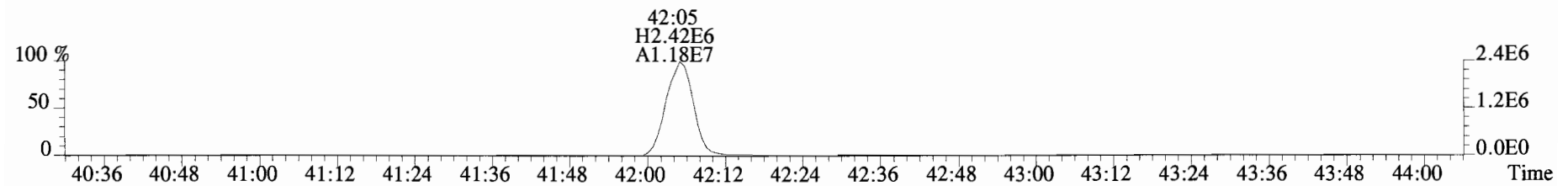
File:140917D1 #1-388 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



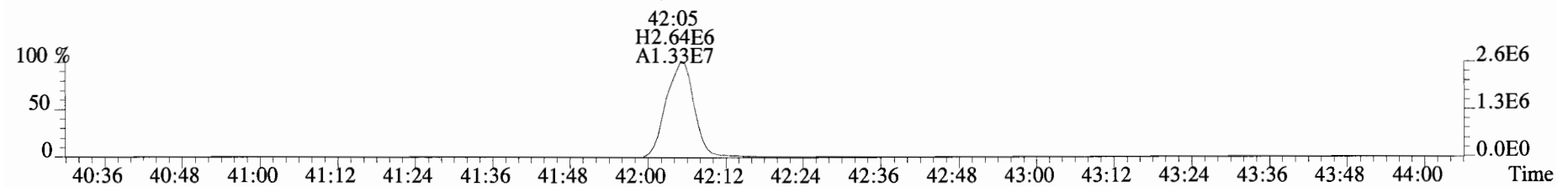
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



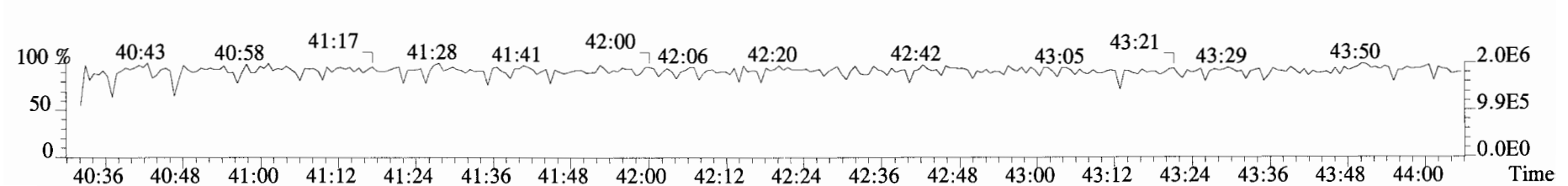
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



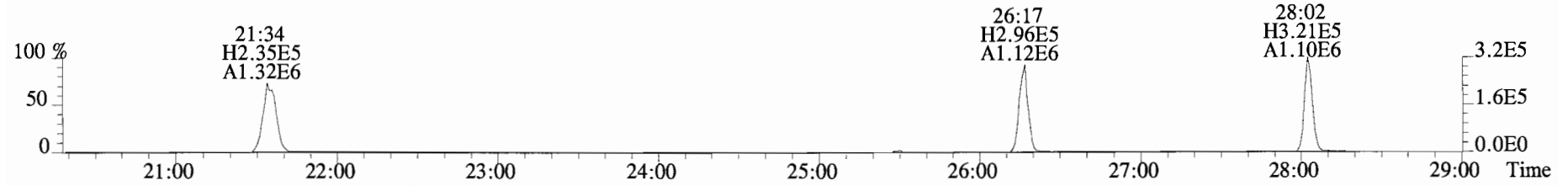
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



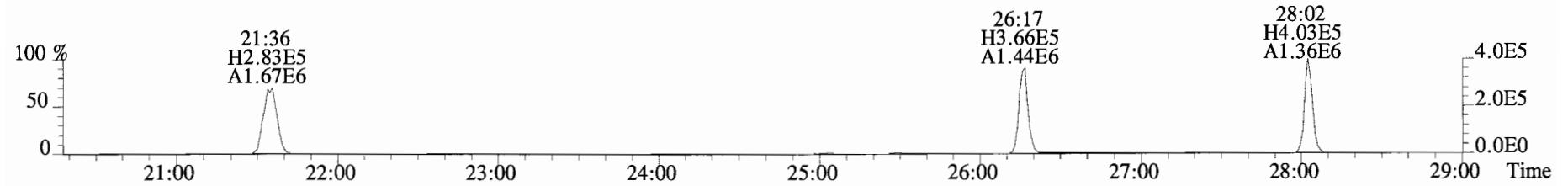
454.9728 F:5



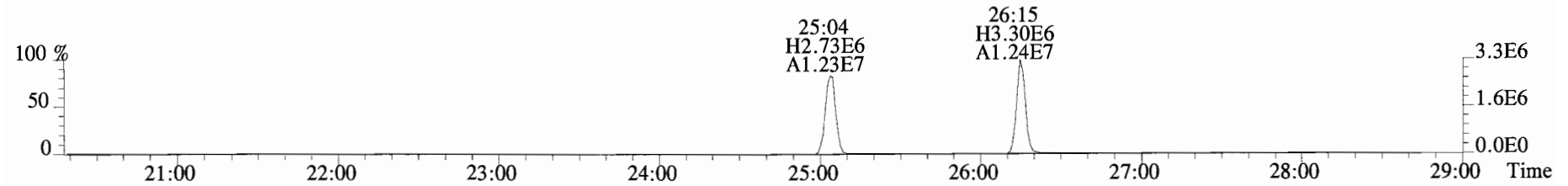
File:140917D1 #1-551 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



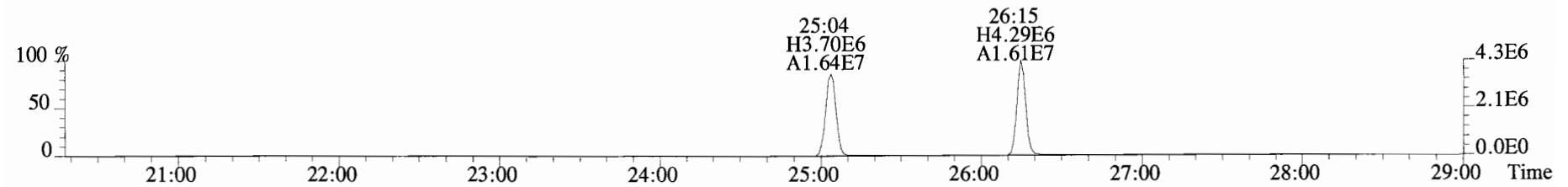
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



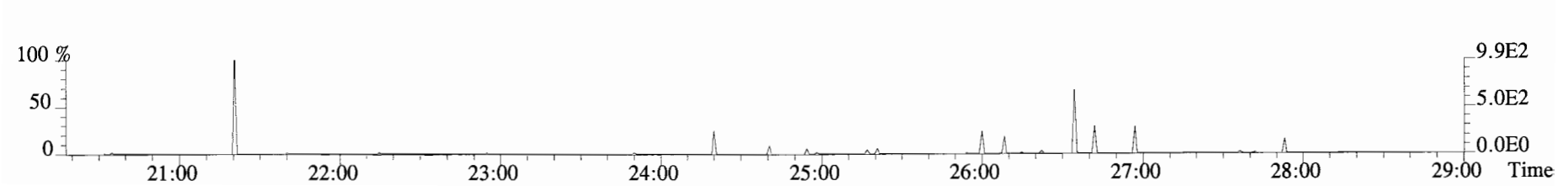
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



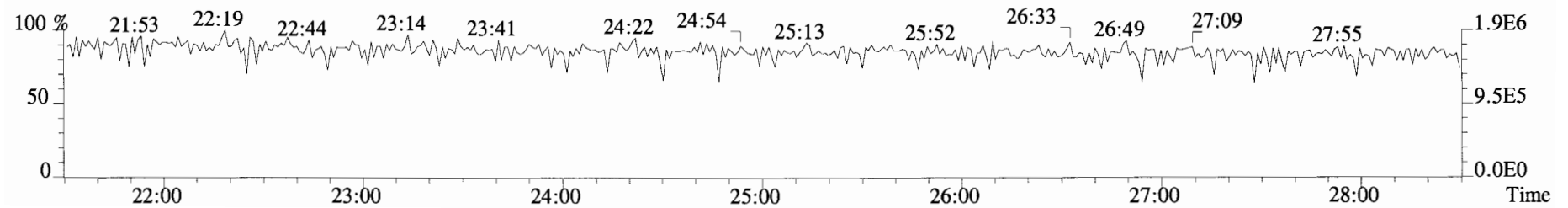
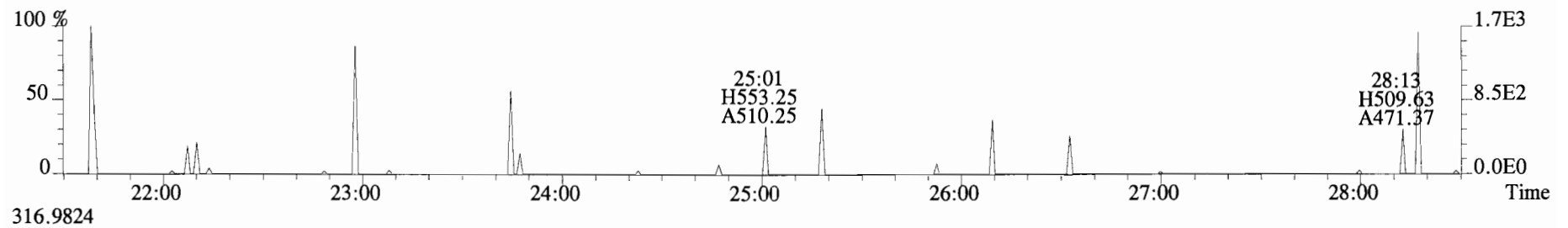
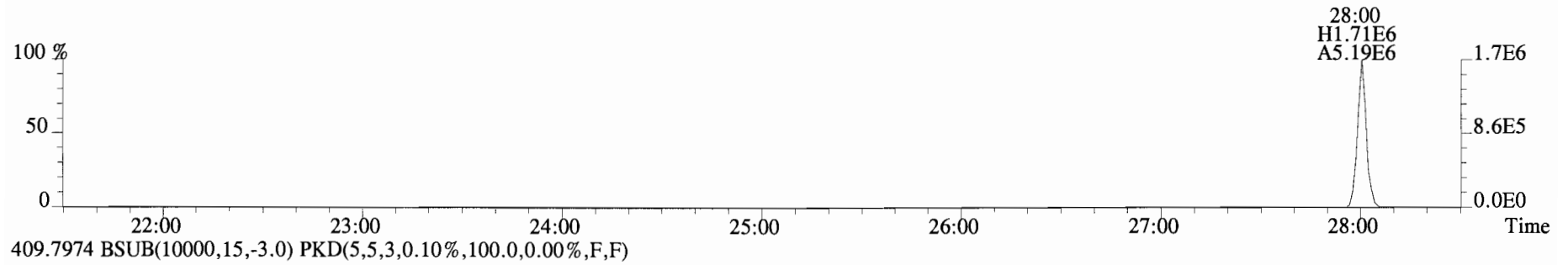
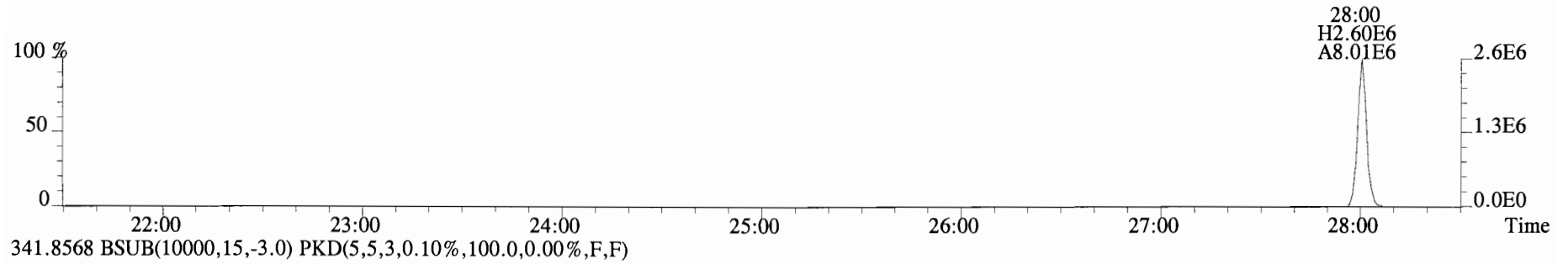
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



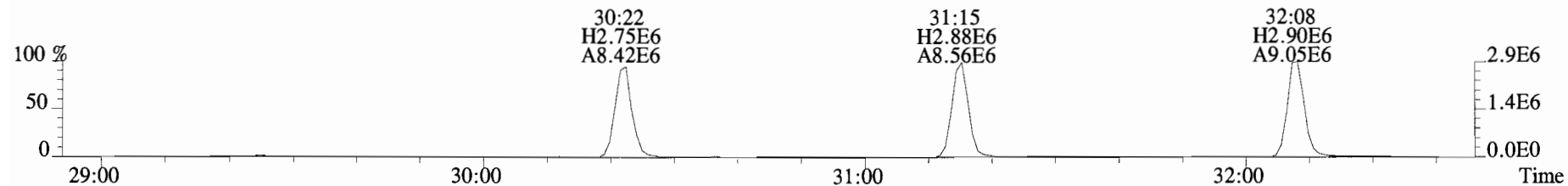
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



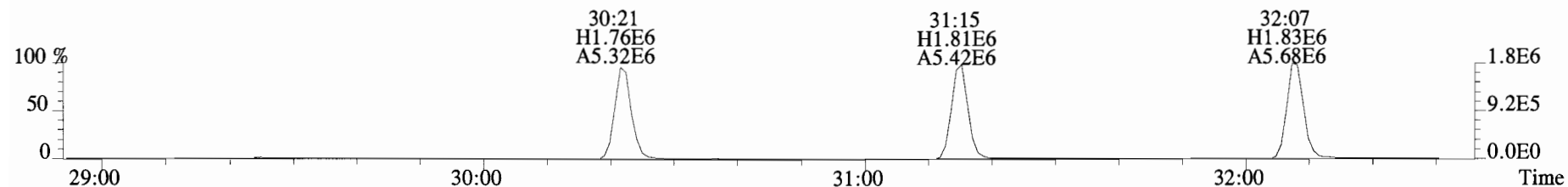
File:140917D1 #1-551 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



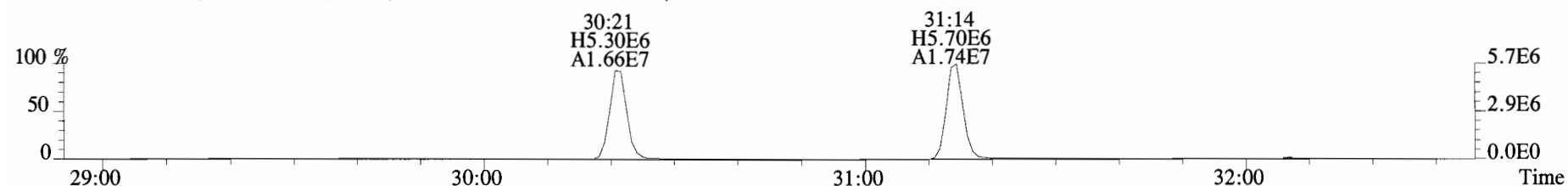
File:140917D1 #1-257 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



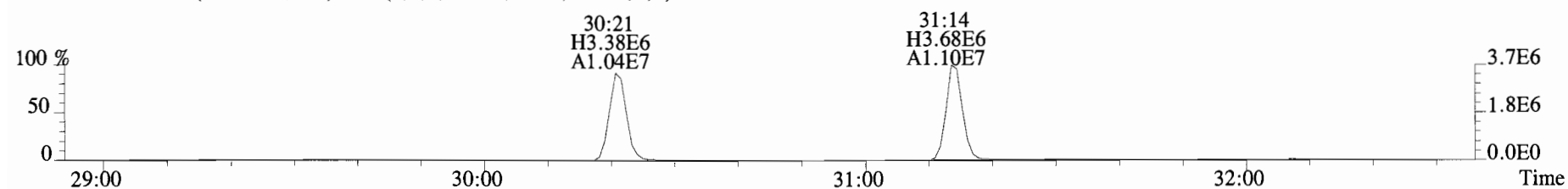
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



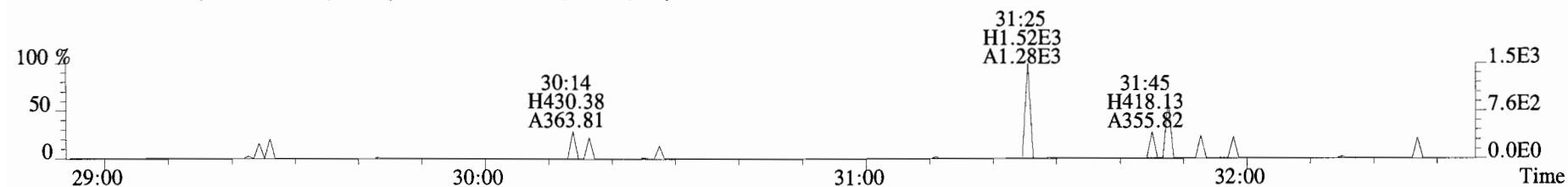
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



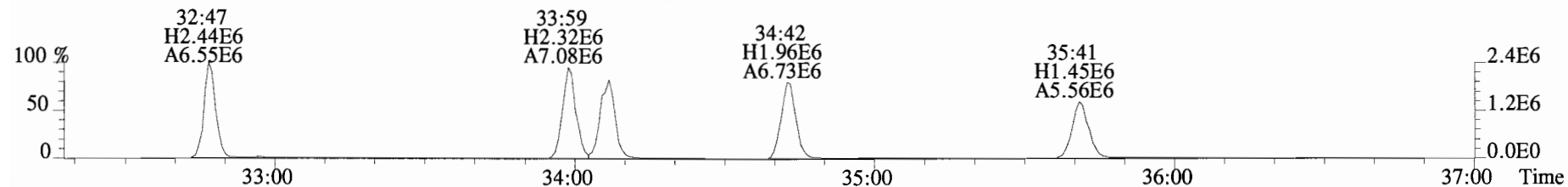
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



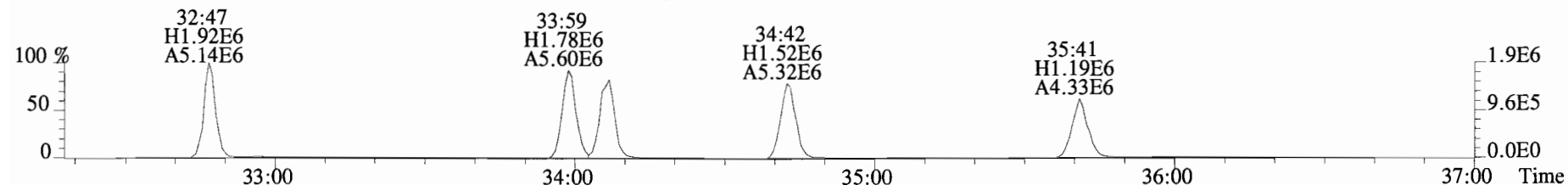
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



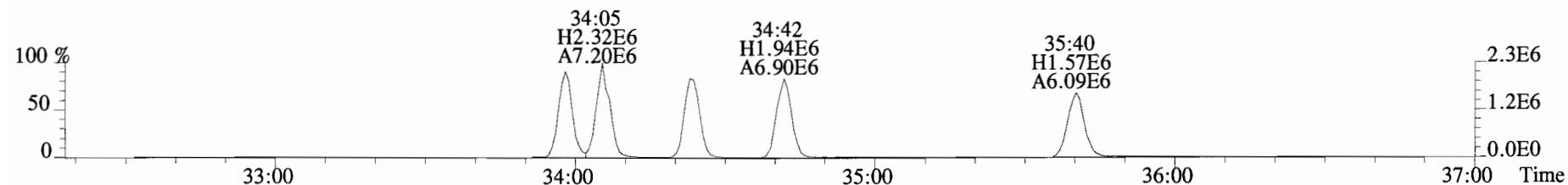
File:140917D1 #1-385 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



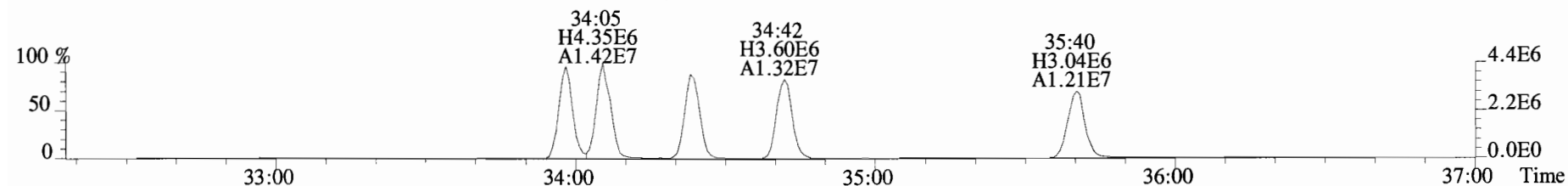
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



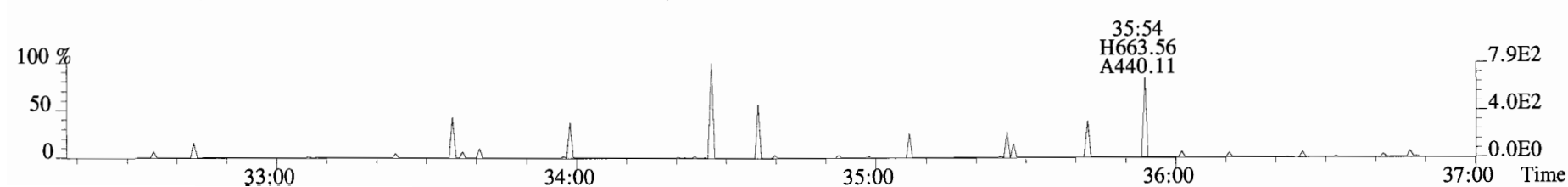
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

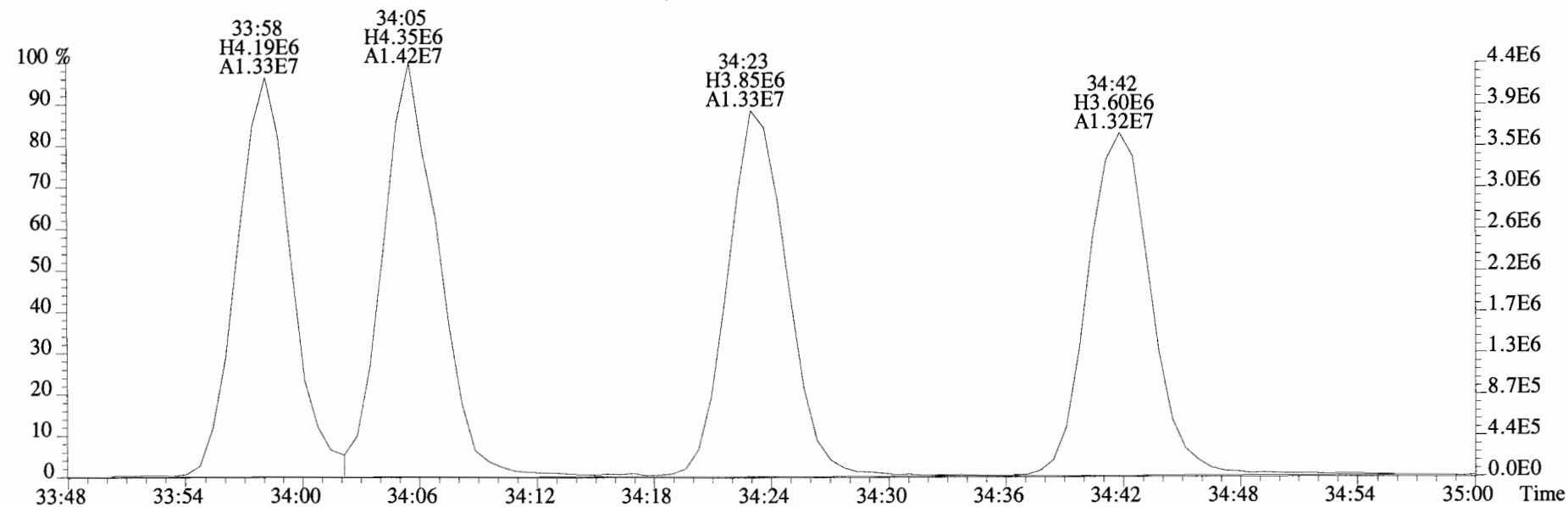
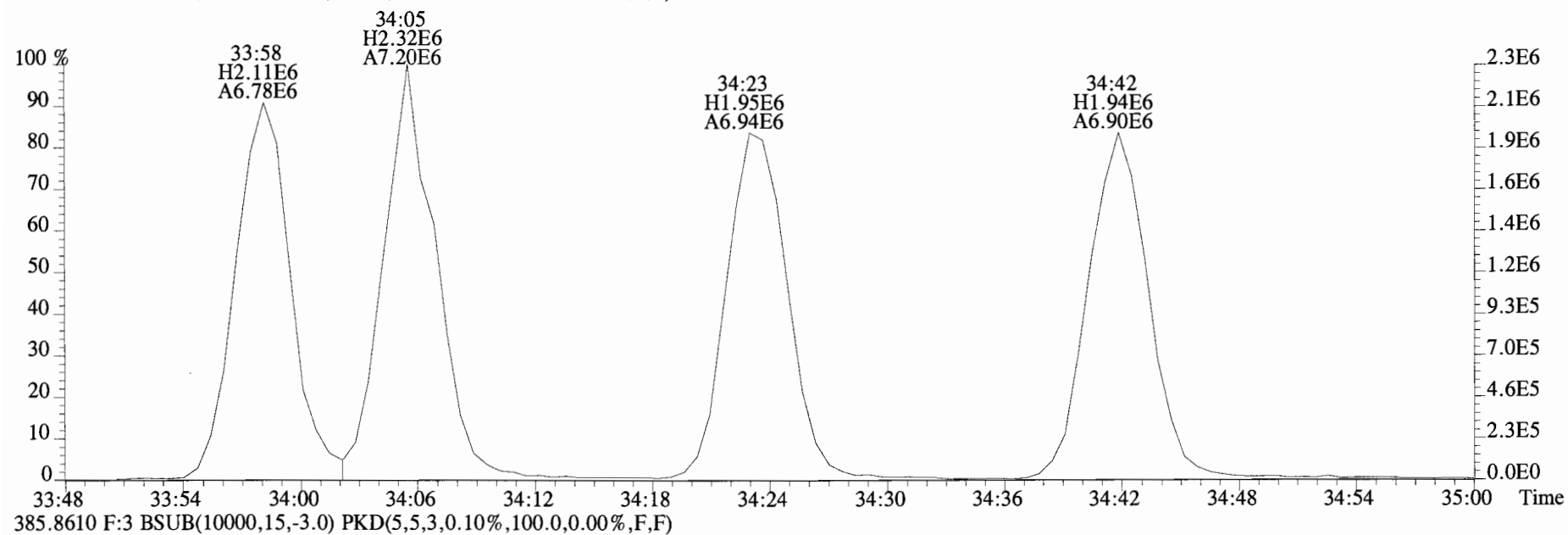


445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

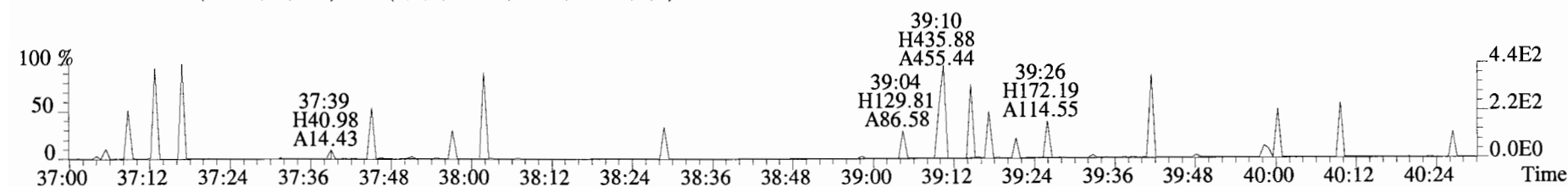
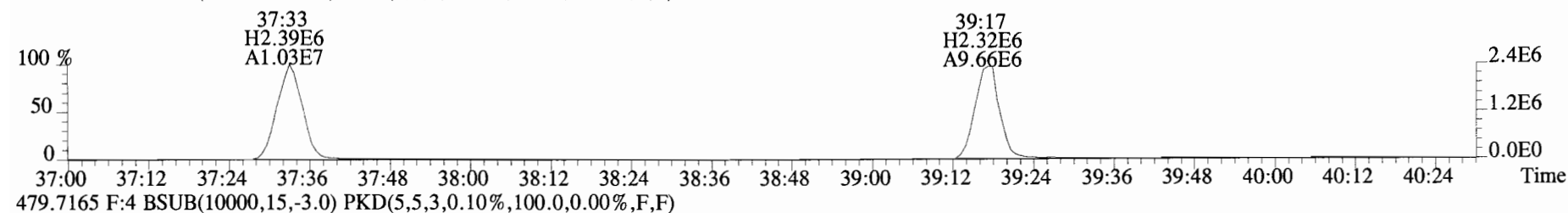
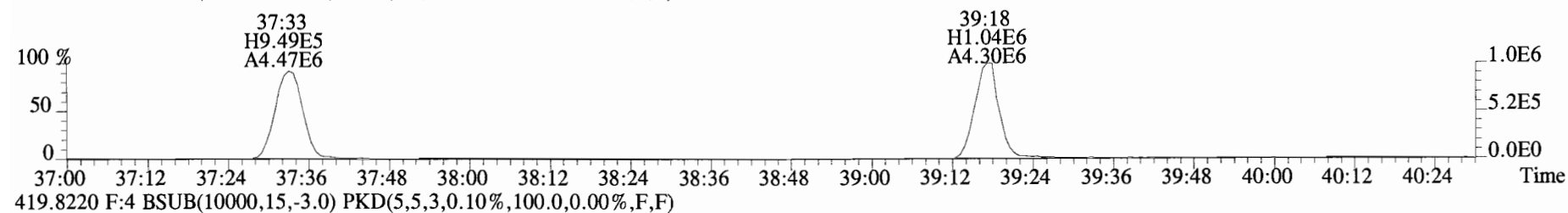
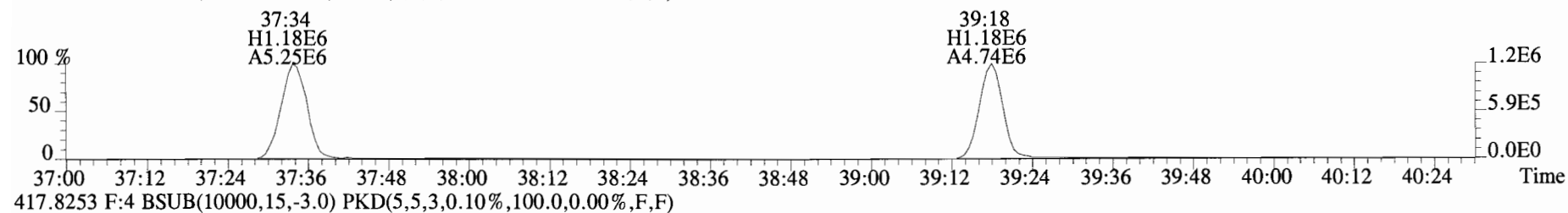
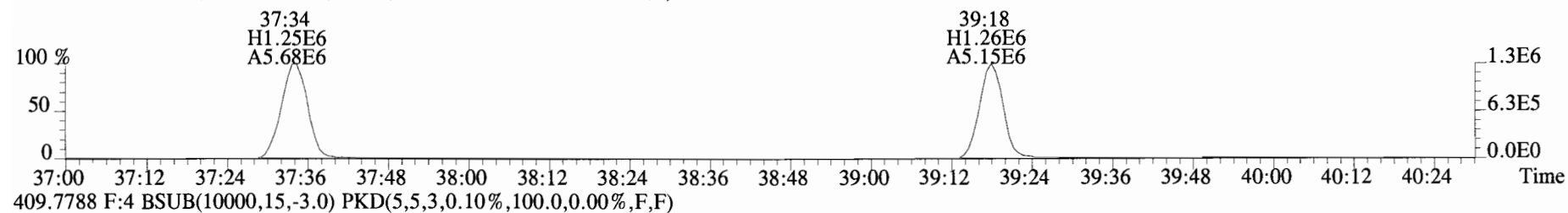




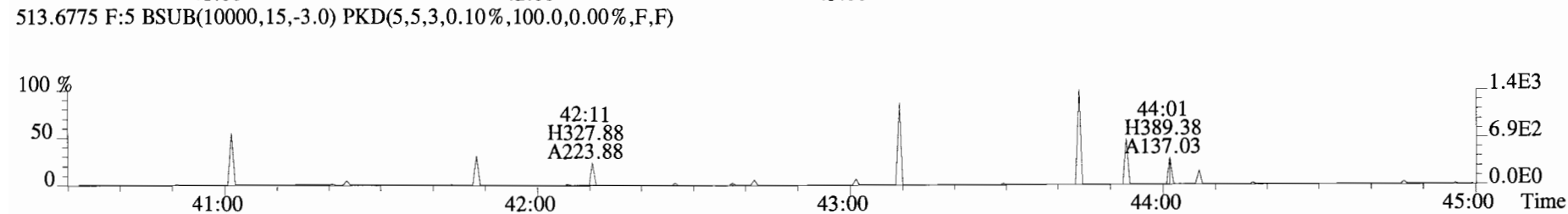
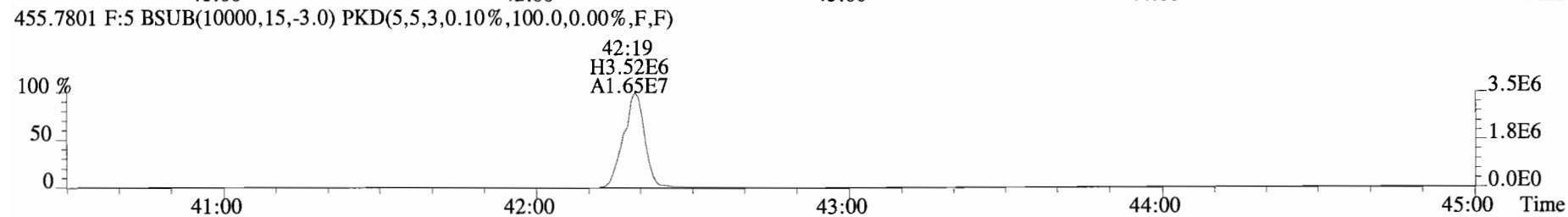
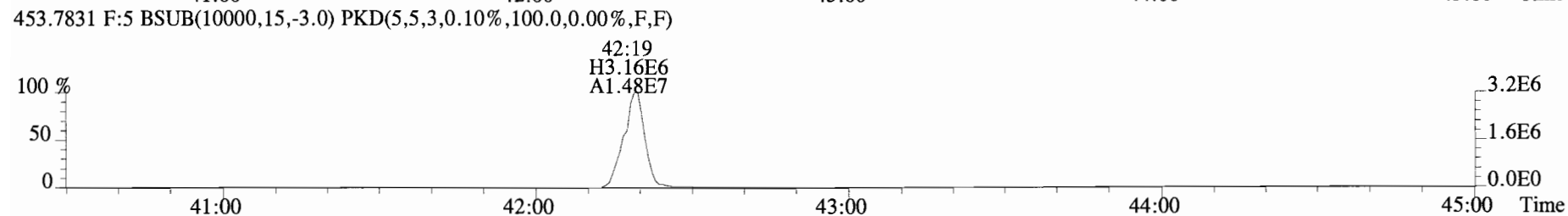
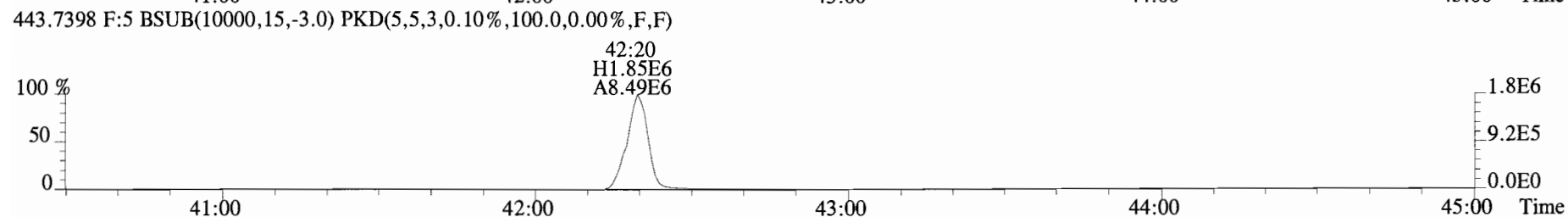
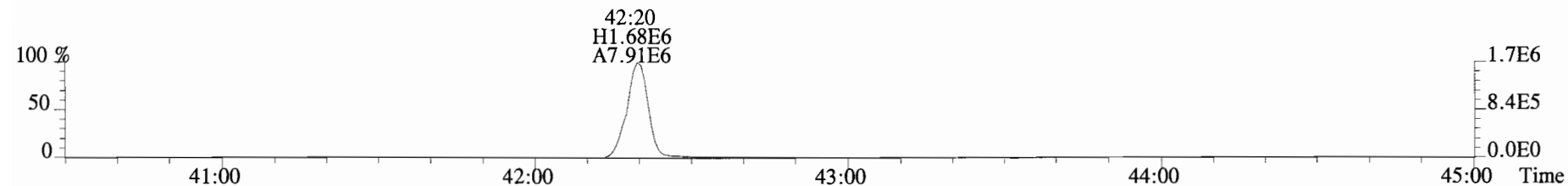
File:140917D1 #1-385 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140917D1 #1-326 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

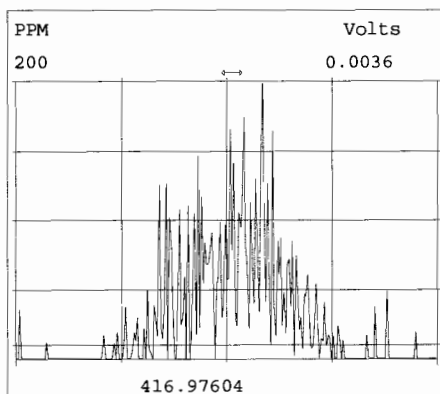
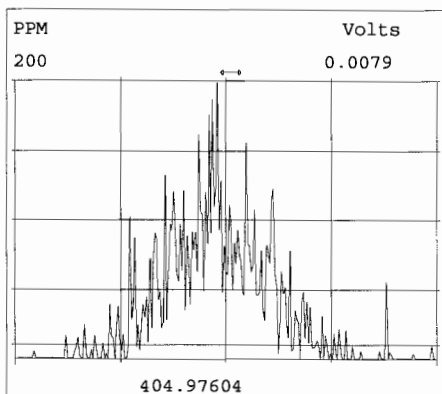
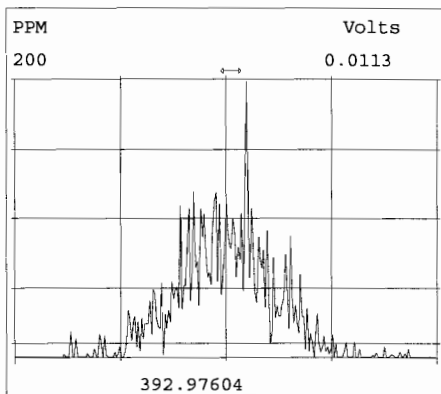
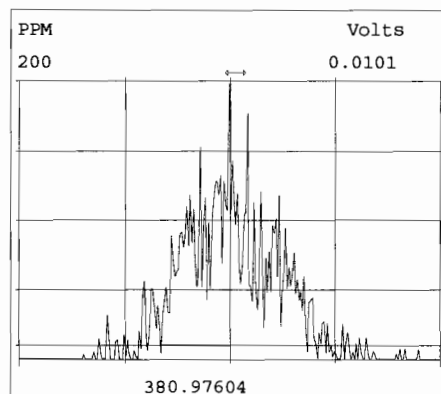
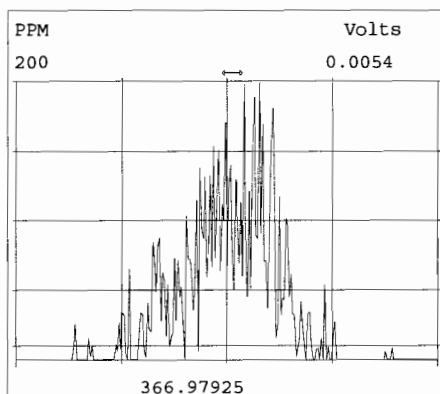
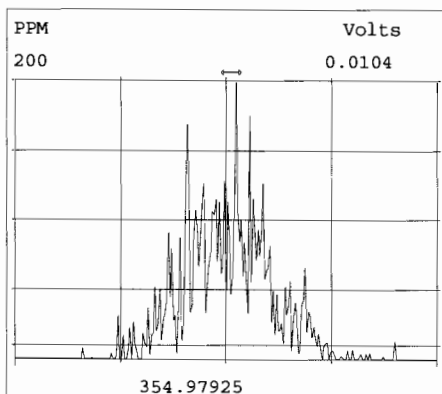
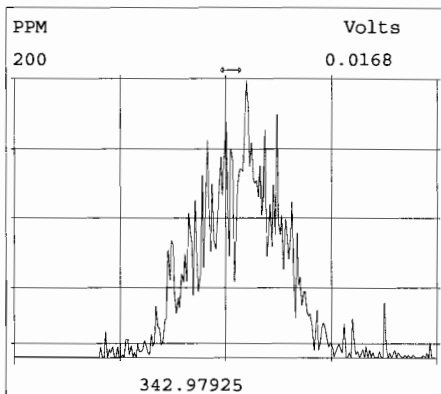
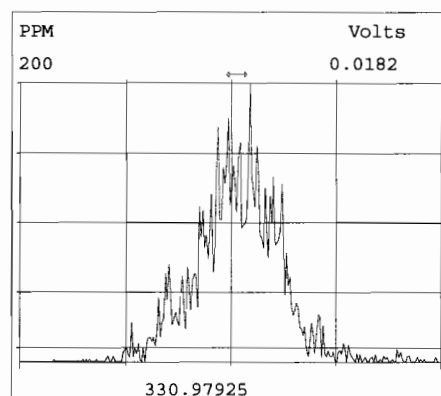
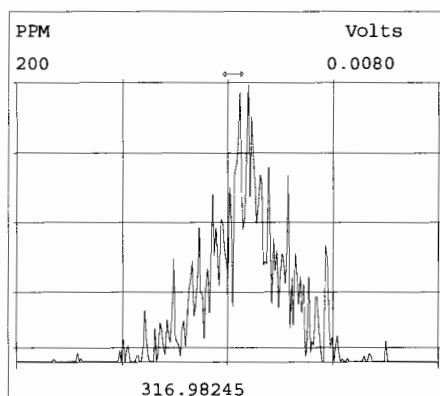
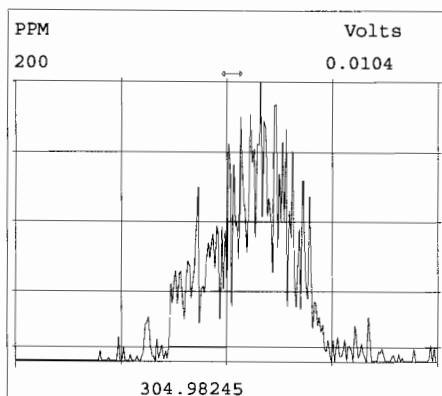
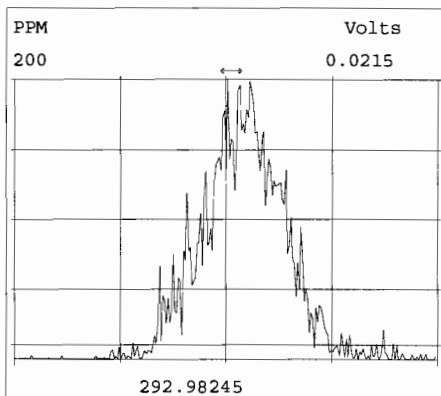


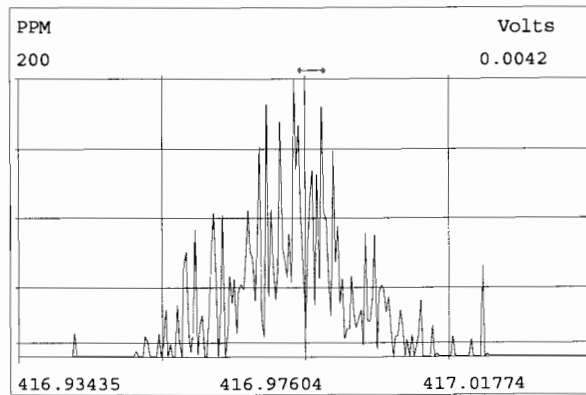
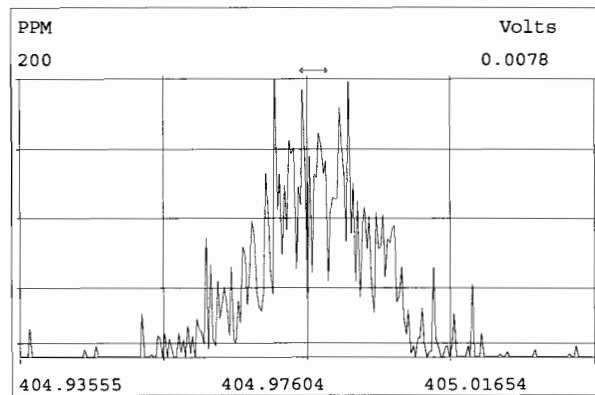
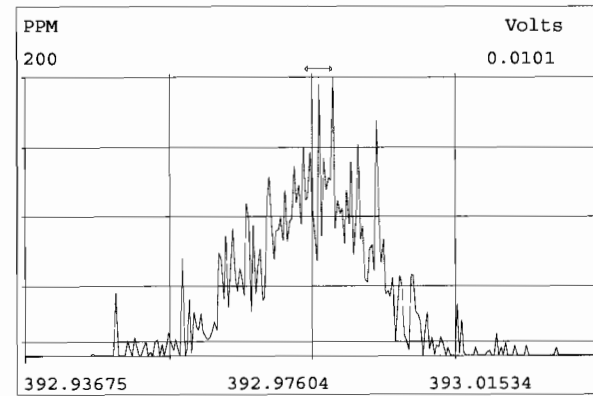
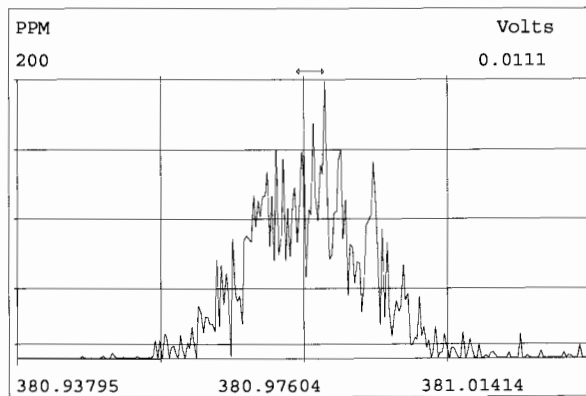
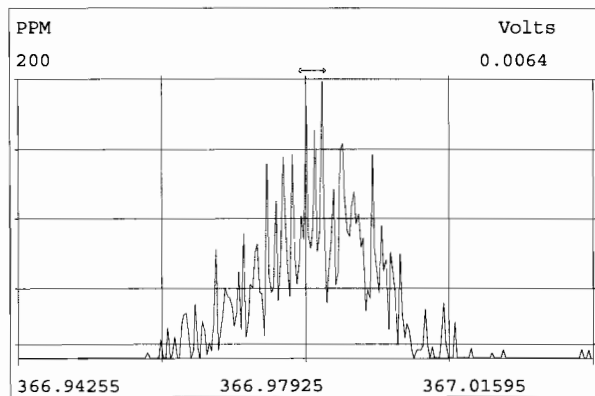
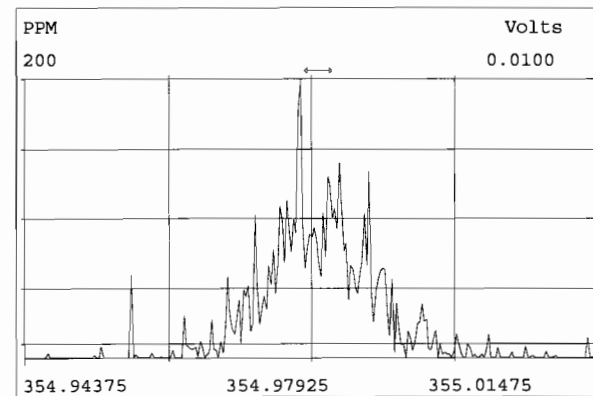
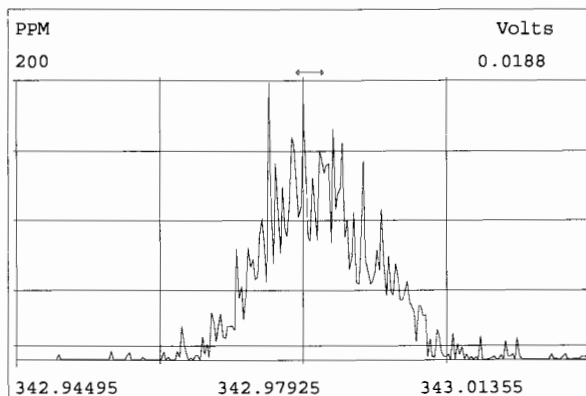
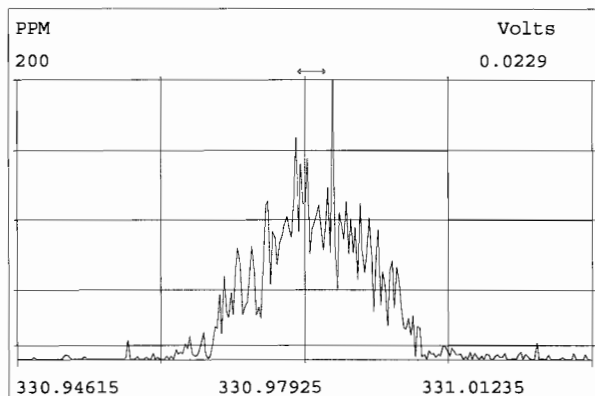
File:140917D1 #1-388 Acq:17-SEP-2014 13:11:35 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140917D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Peak Locate Examination:18-SEP-2014:03:03 File:RES\_CHECK

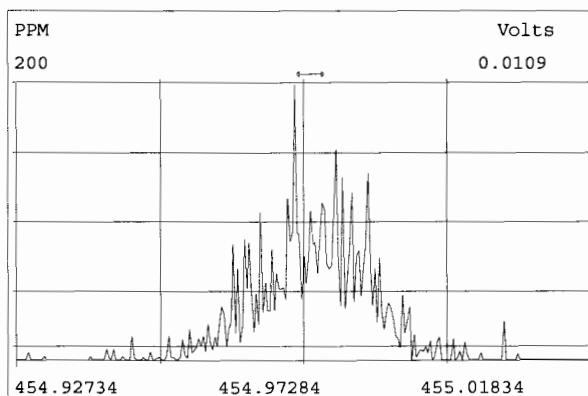
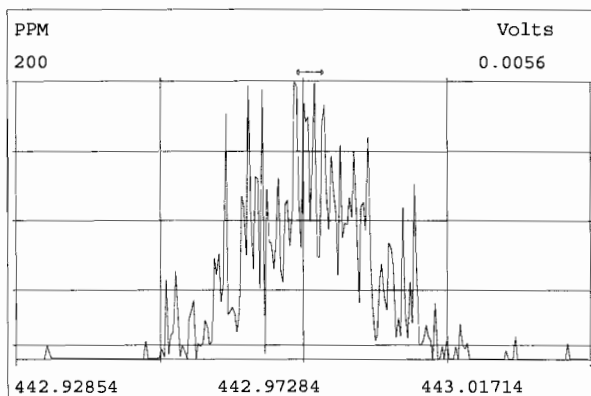
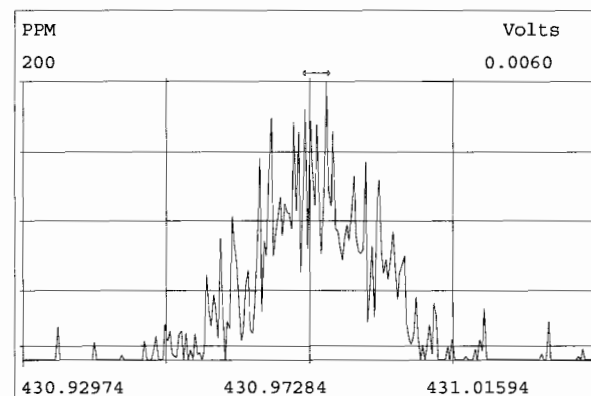
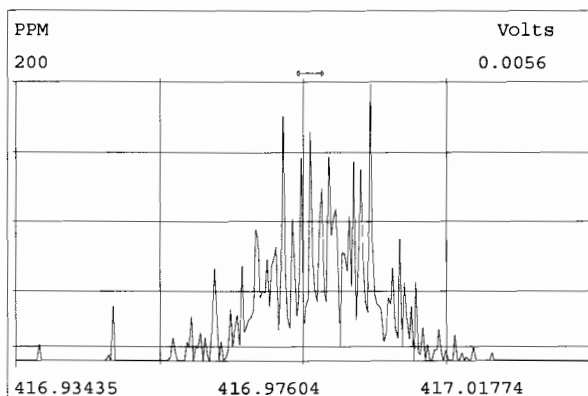
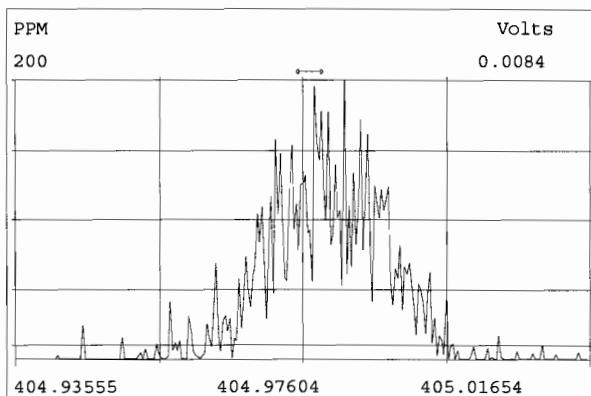
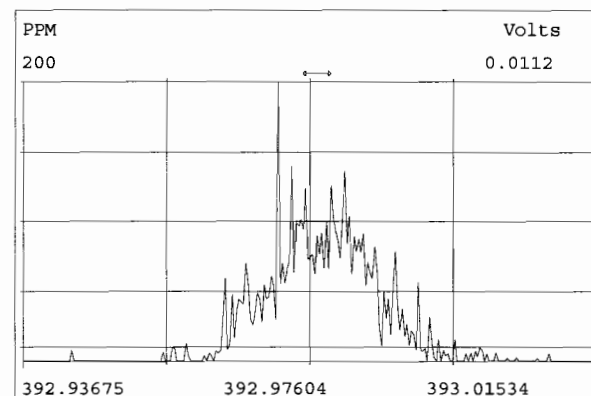
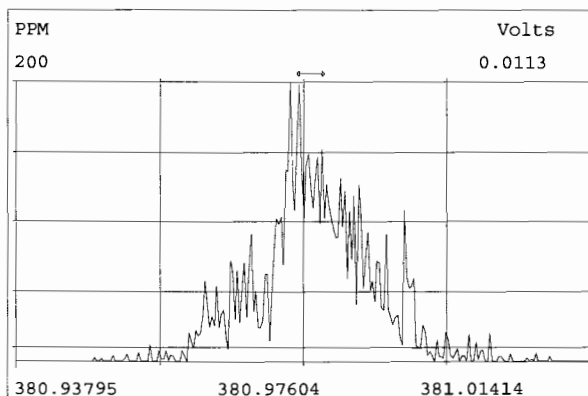
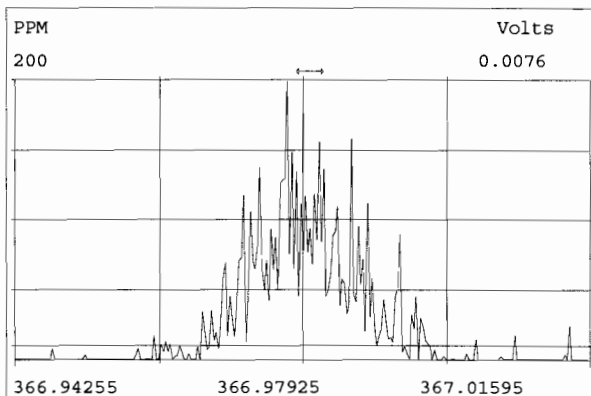
Experiment:OCDD\_DB5 Function:1 Reference:PFK

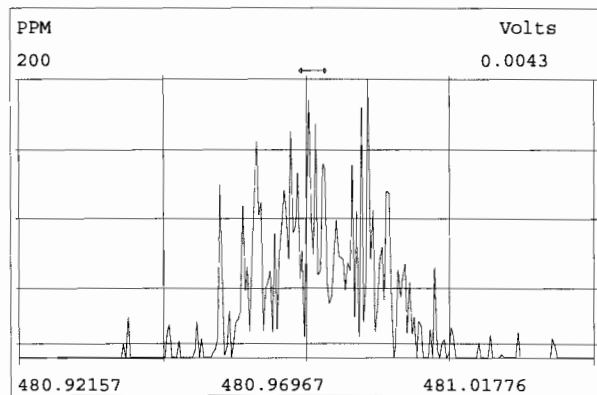
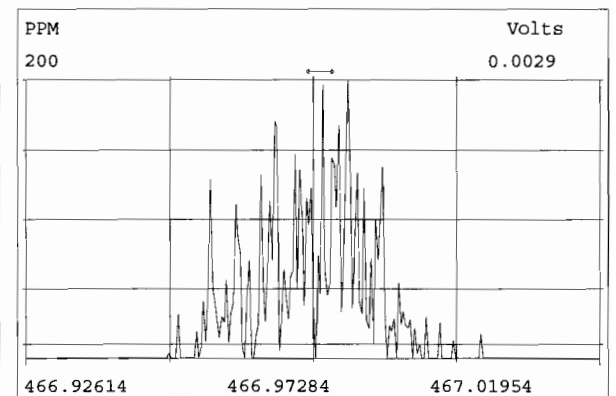
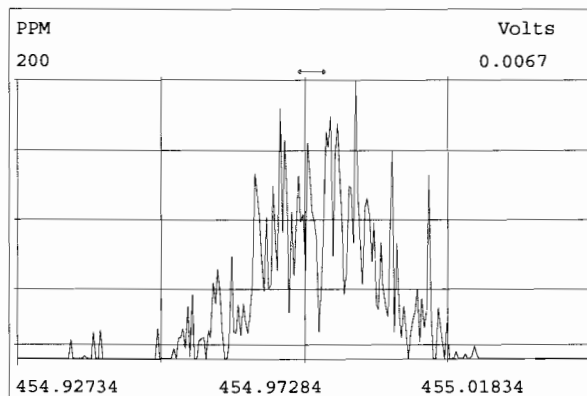
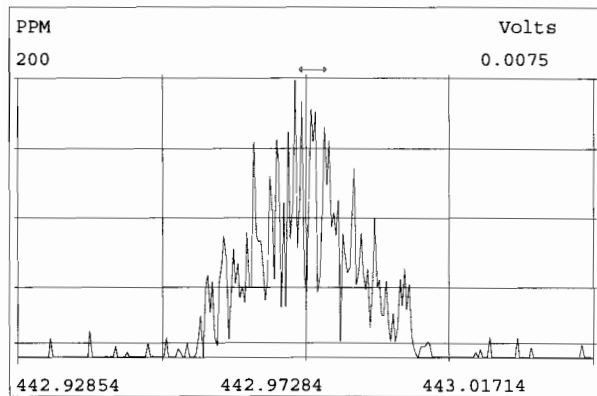
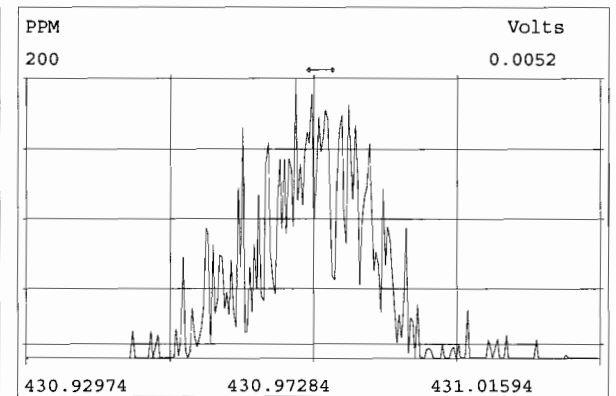
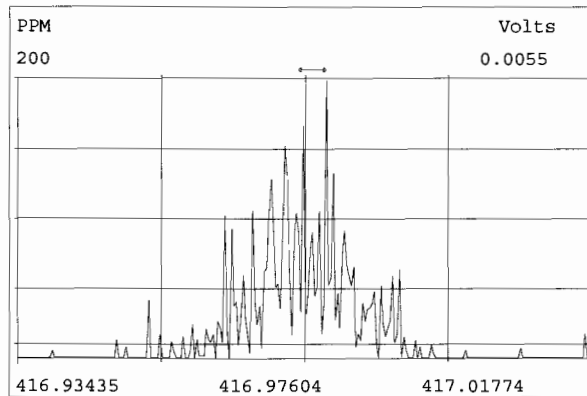
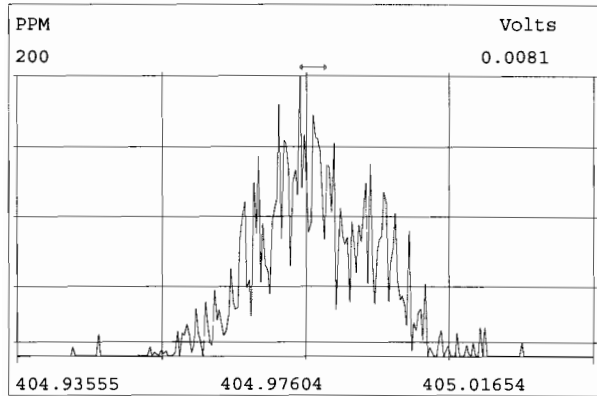


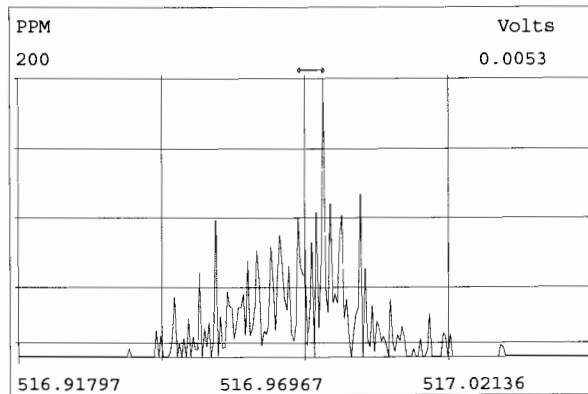
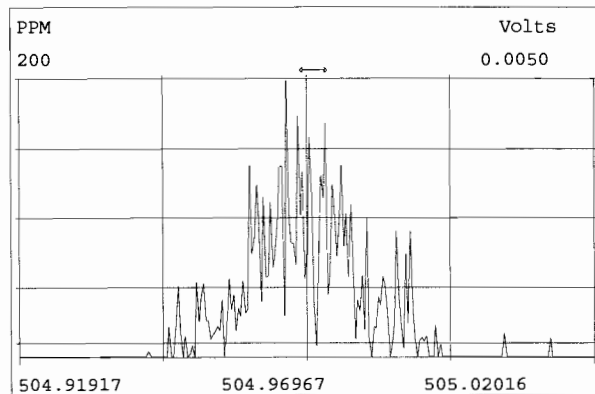
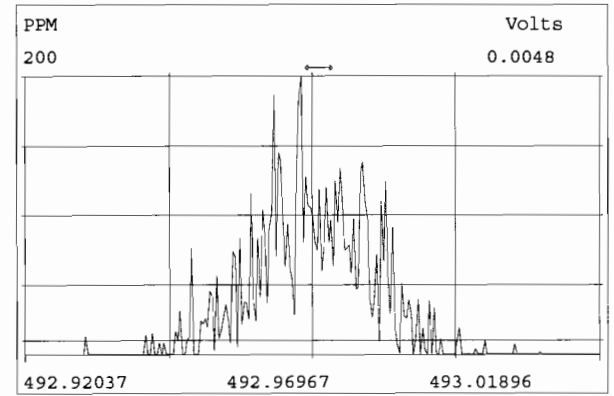
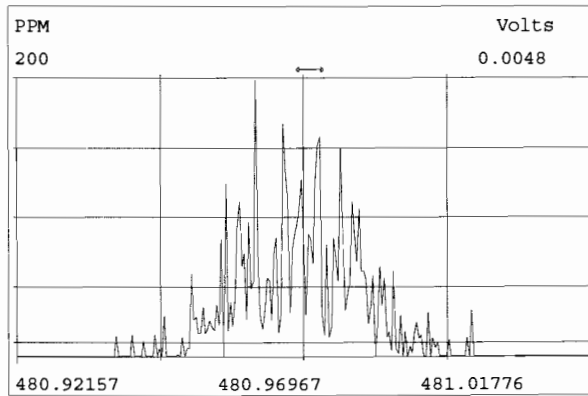
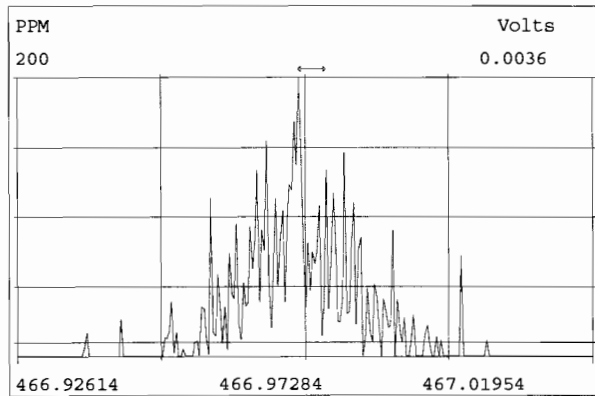
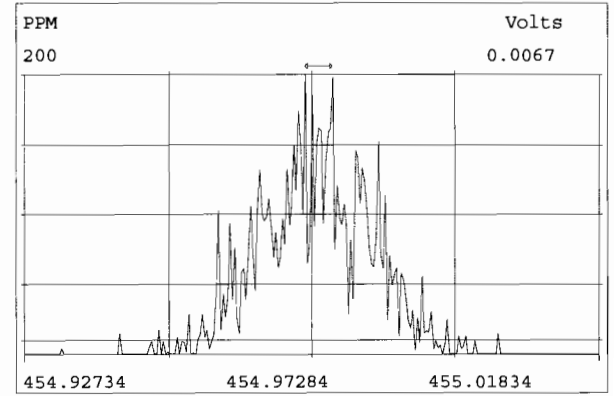
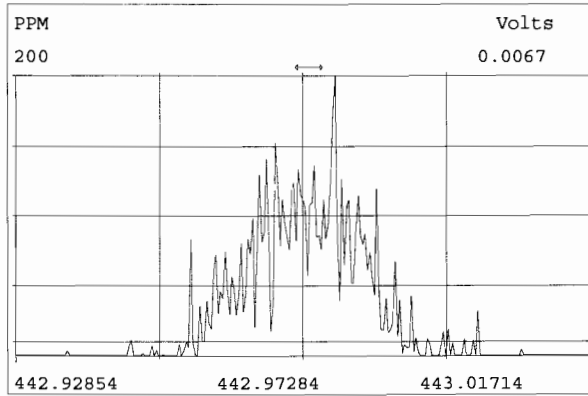
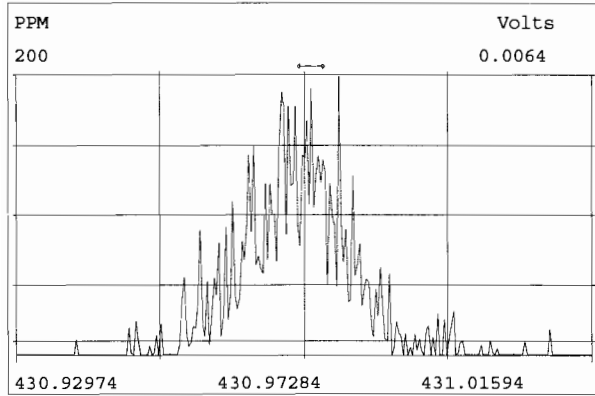


Peak Locate Examination:18-SEP-2014:03:05 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:3 Reference:PFK









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

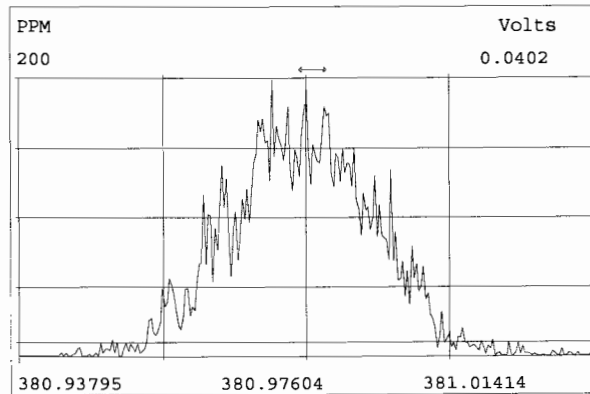
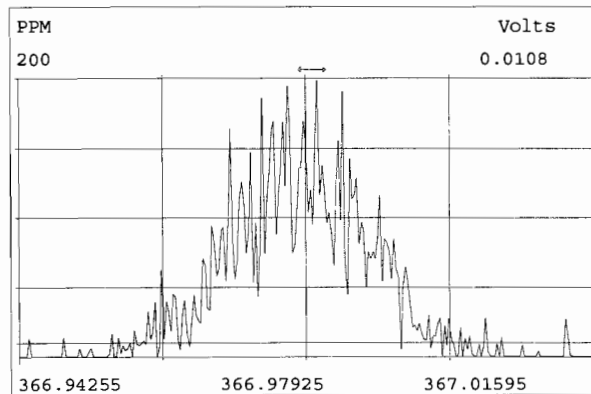
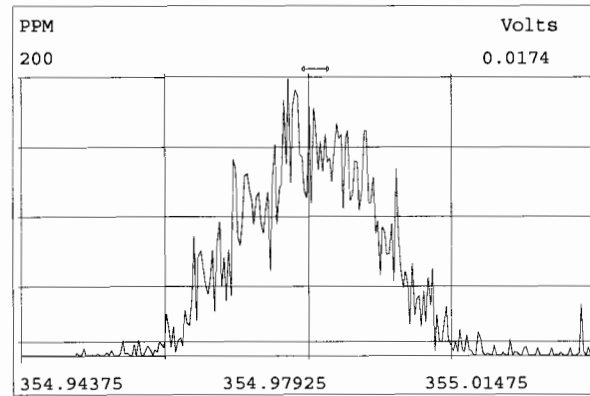
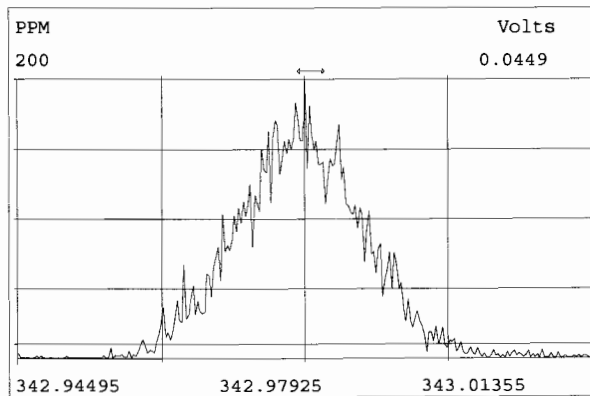
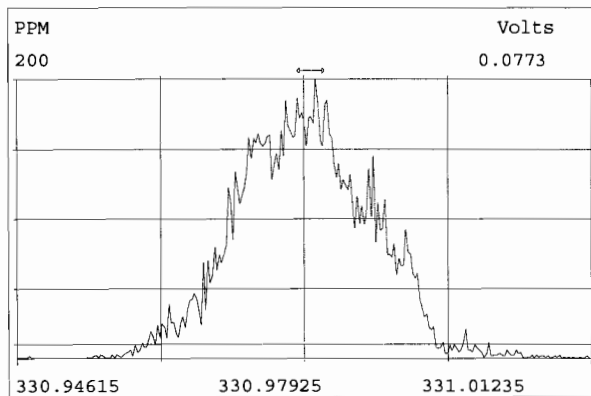
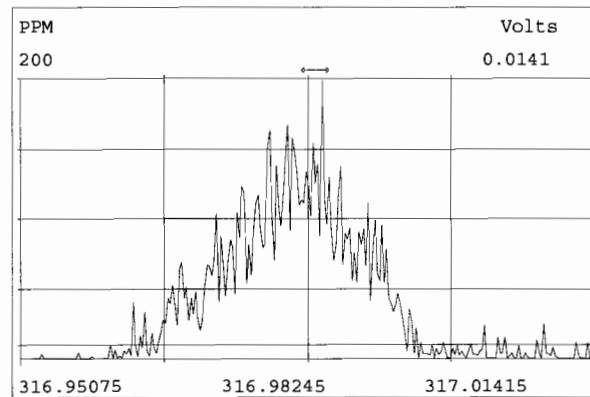
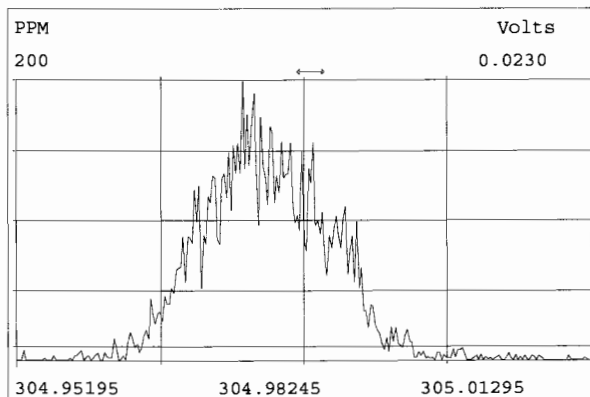
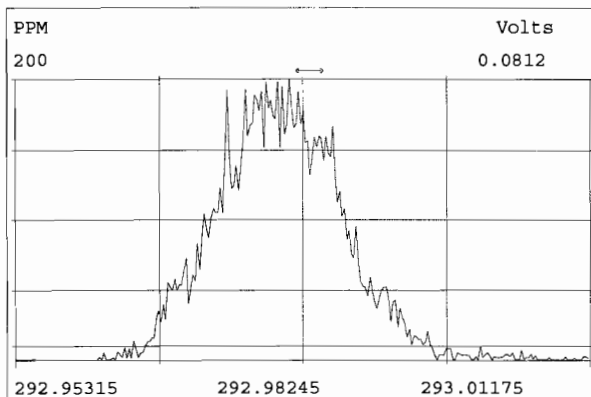
	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NA	<input type="checkbox"/>
Retention 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"/>

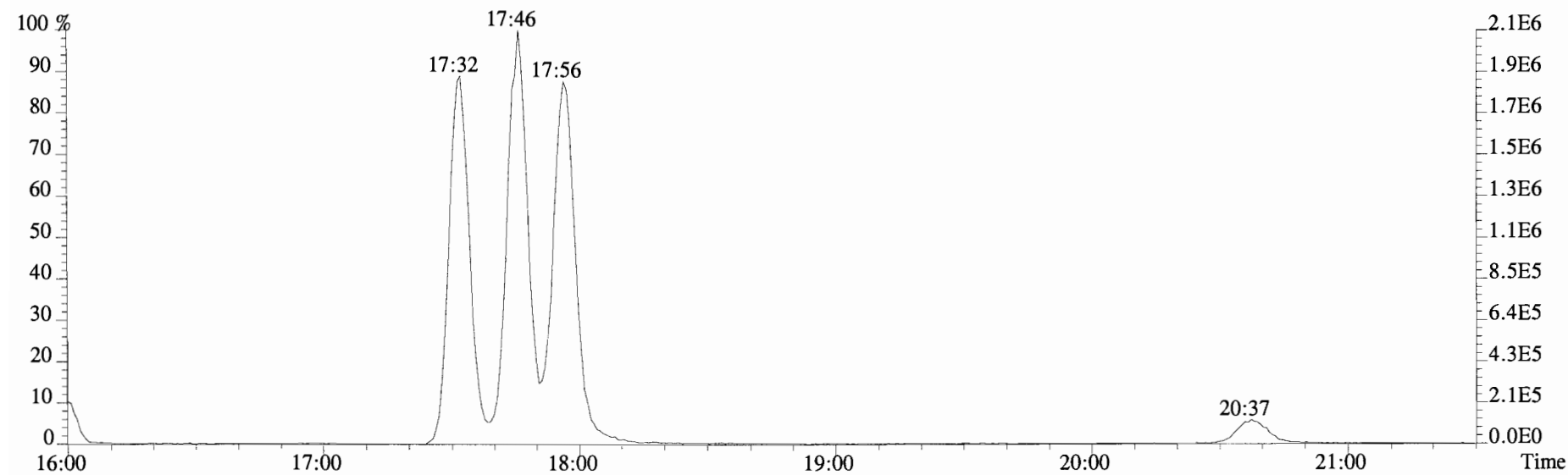
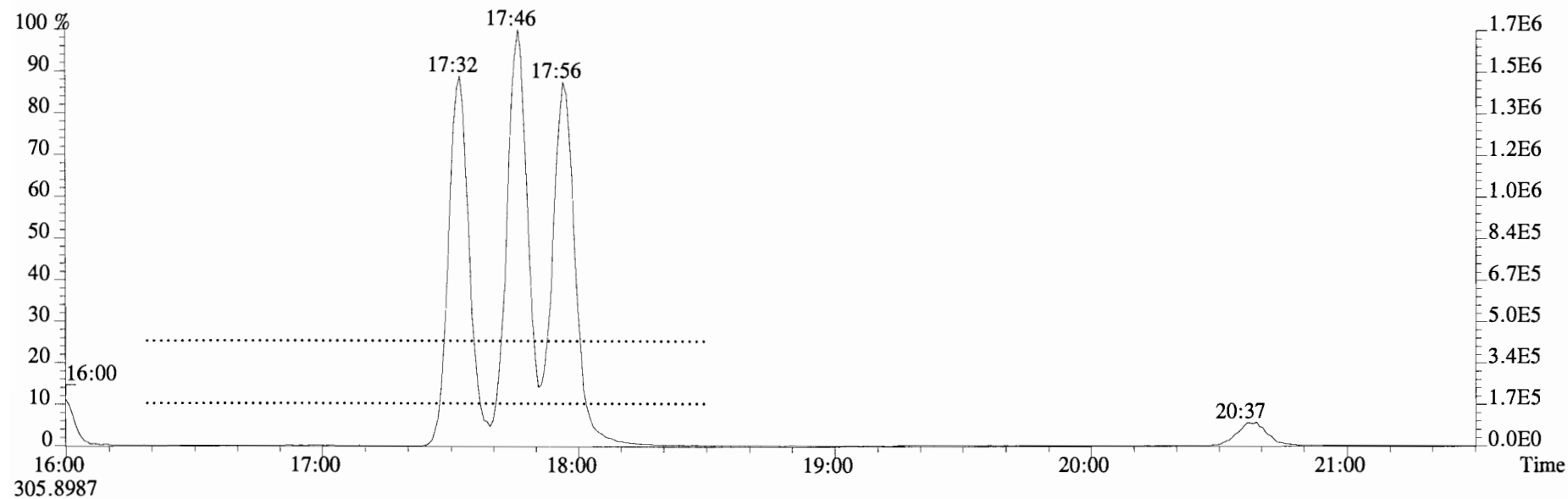
Comments: \* Tetra → Octa only m 9/19/14

Reviewed by:  9/19/14  
*Initials & Date*

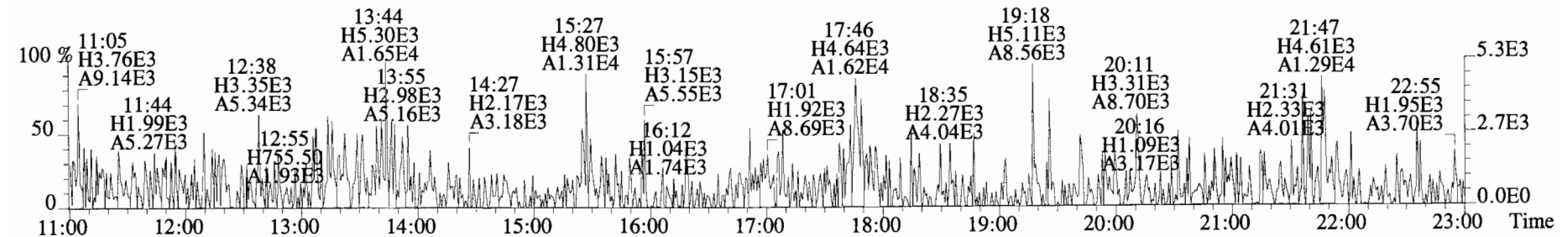
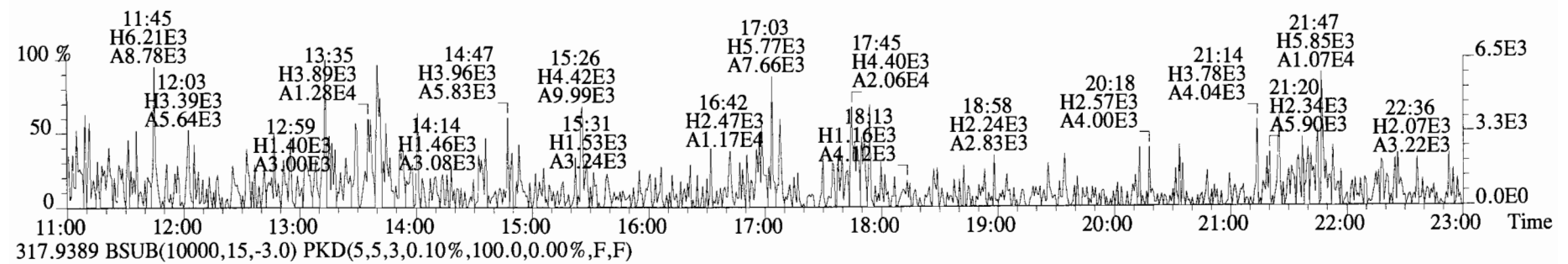
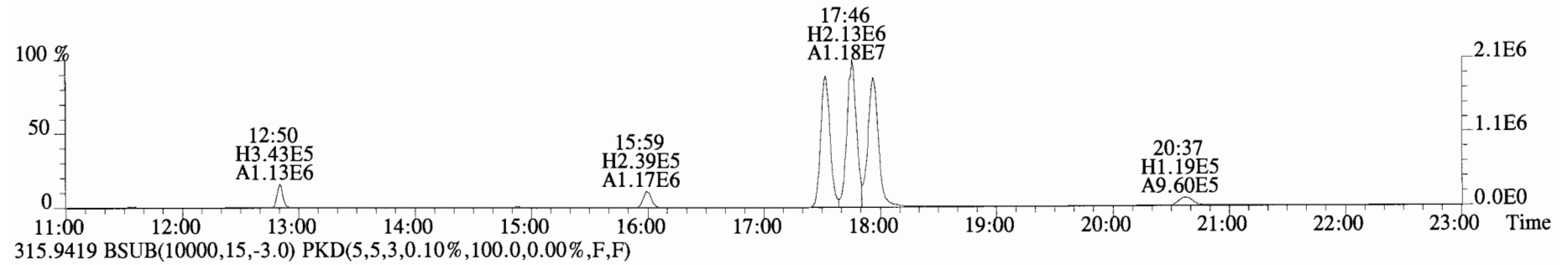
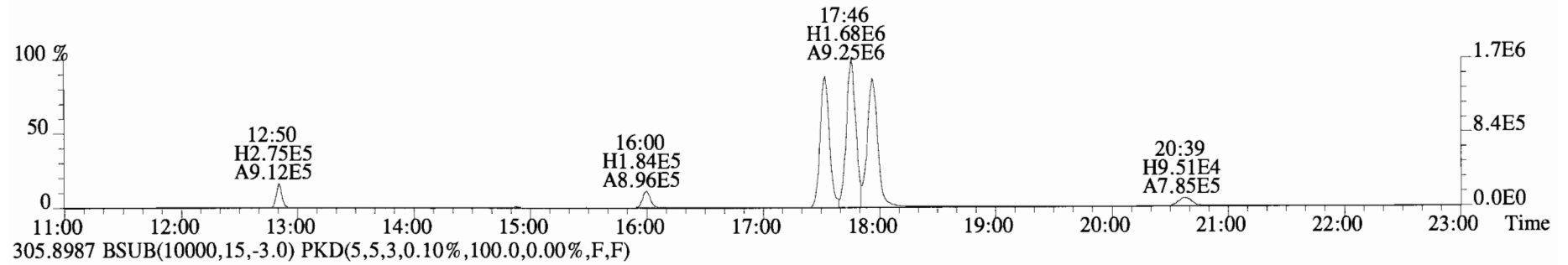
\* Ending standard criteria applicable to 8290 only.



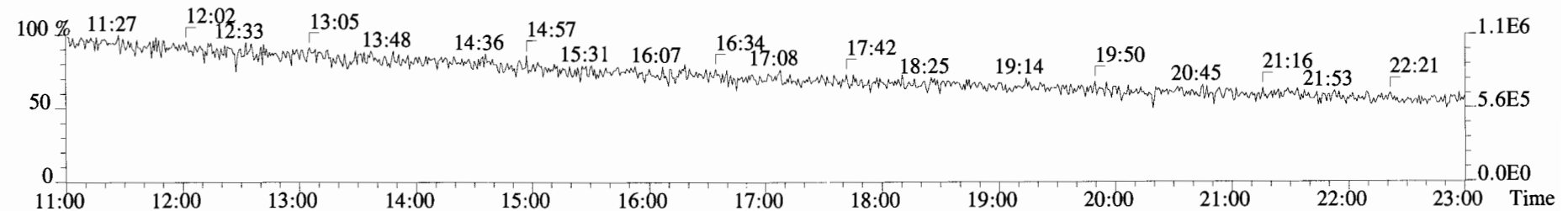
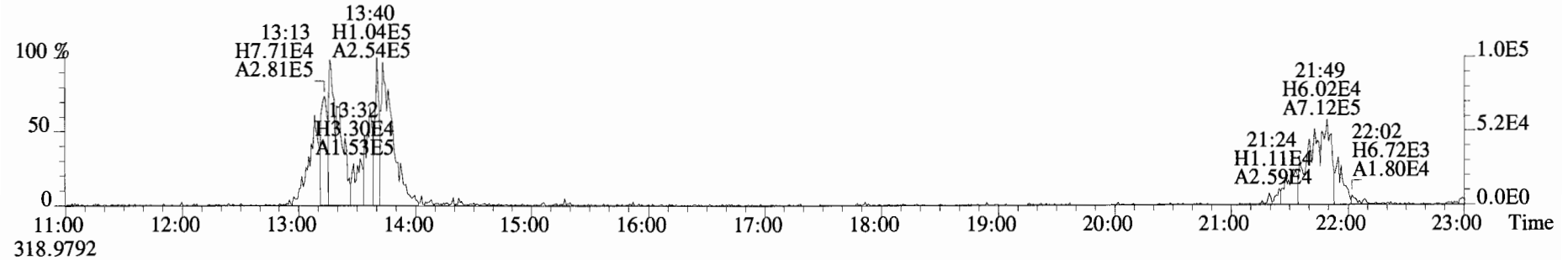
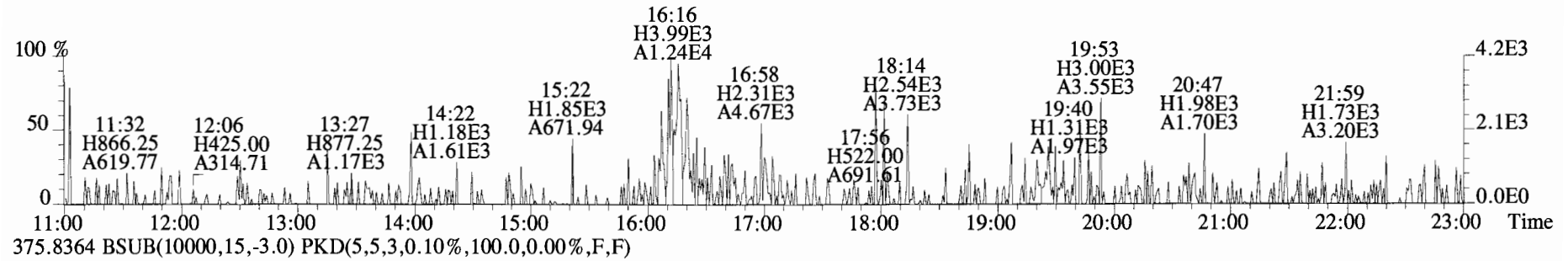
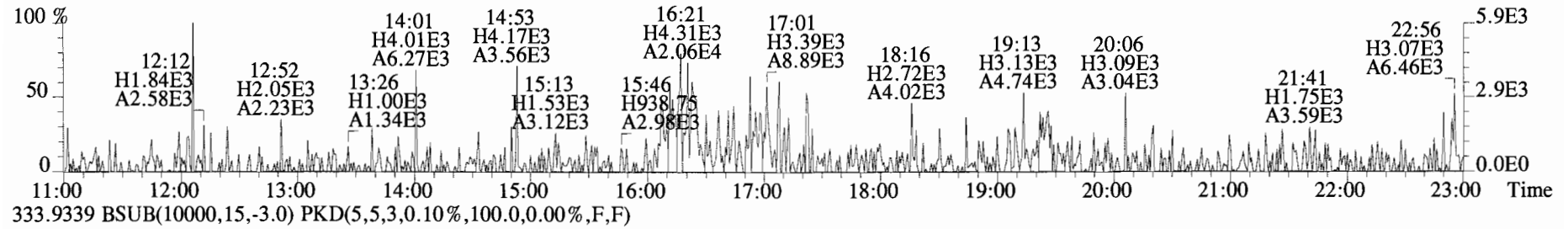
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Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:CP140918D1-1 DB-225 CPSM Exp:TCDF\_DB225  
303.9016



File:140918D1 #1-1683 Acq:18-SEP-2014 12:09:36 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:CP140918D1-1 DB-225 CPSM Exp:TCDF\_DB225  
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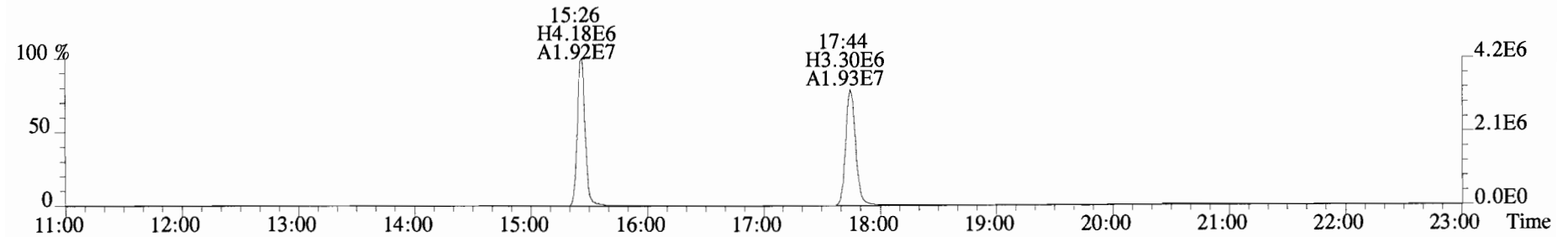
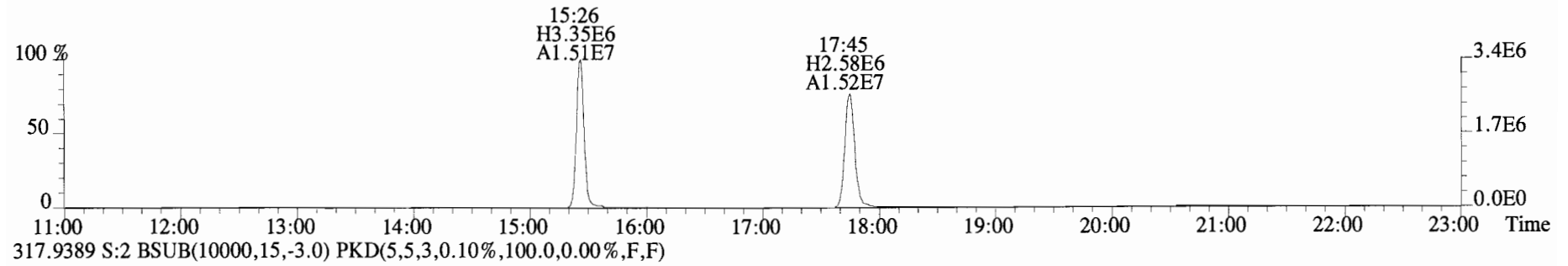
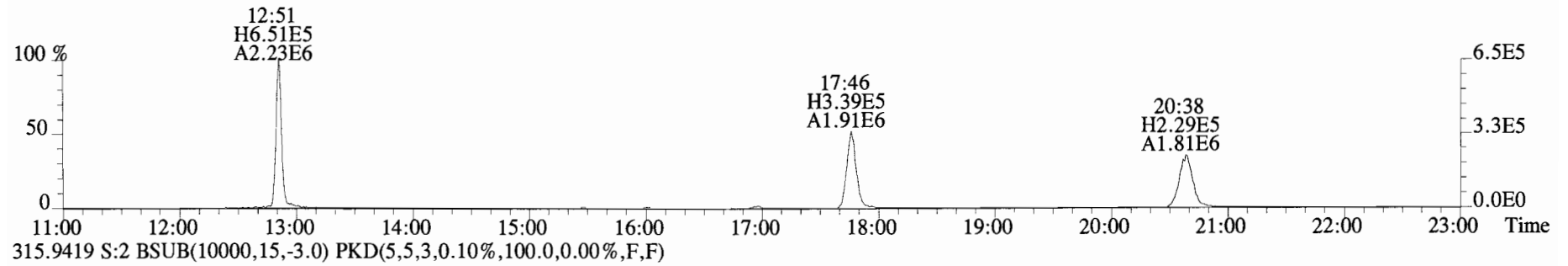
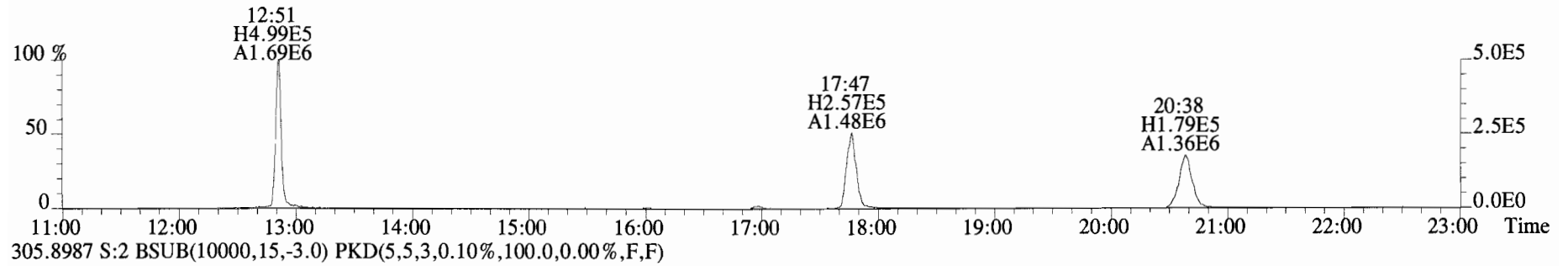


File:140918D1 #1-1683 Acq:18-SEP-2014 12:09:36 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:CP140918D1-1 DB-225 CPSM Exp:TCDF\_DB225  
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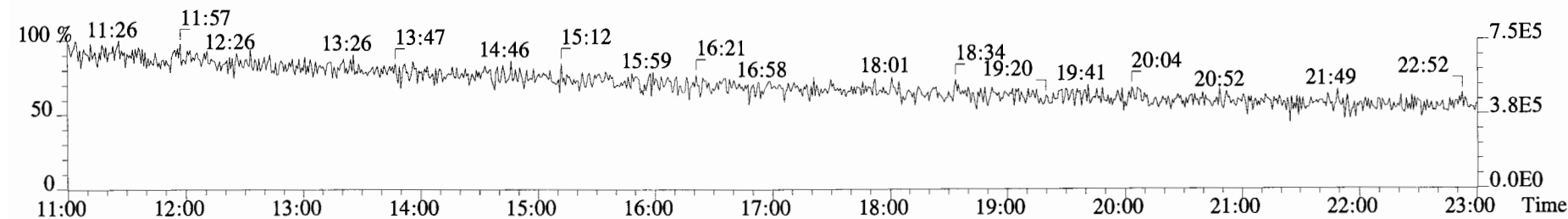
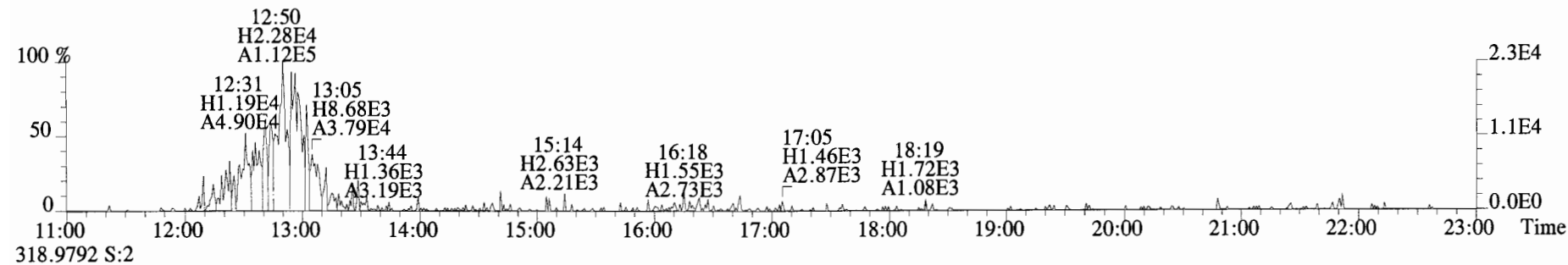
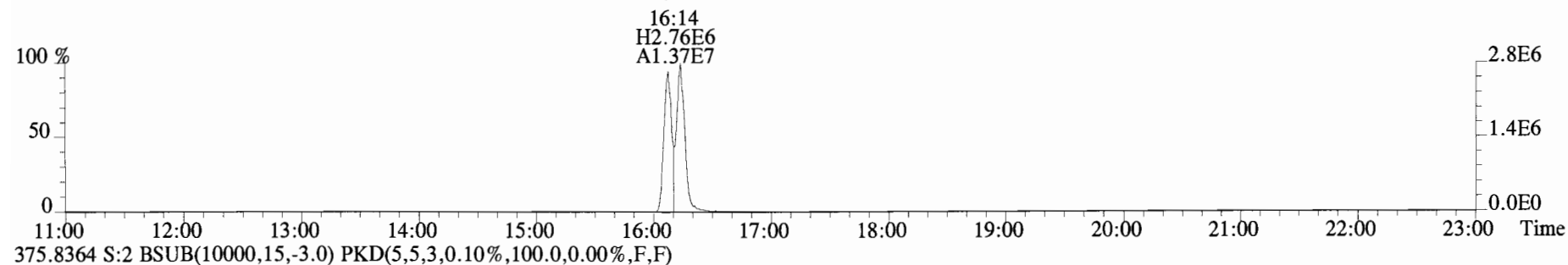
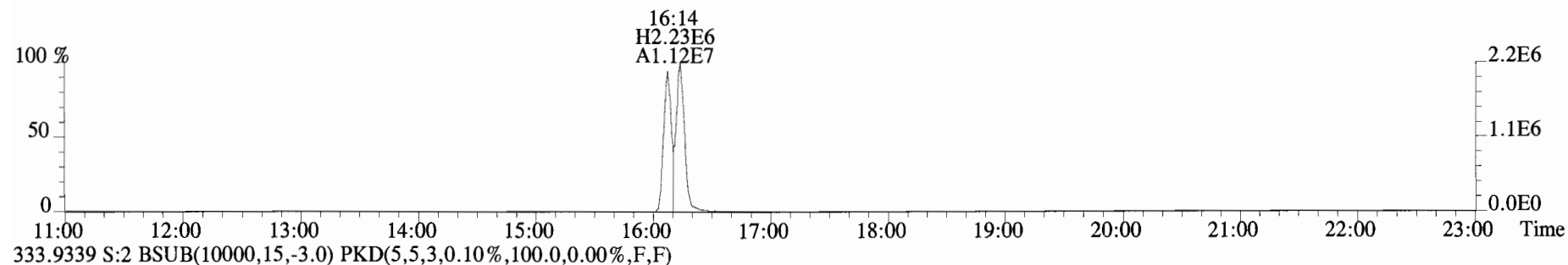


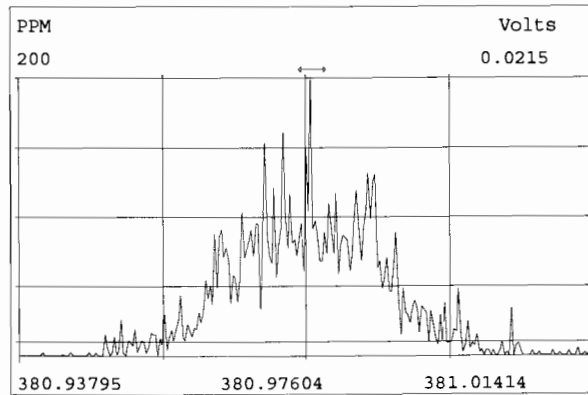
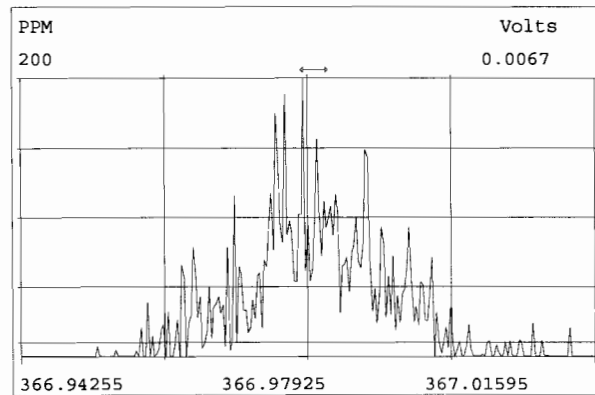
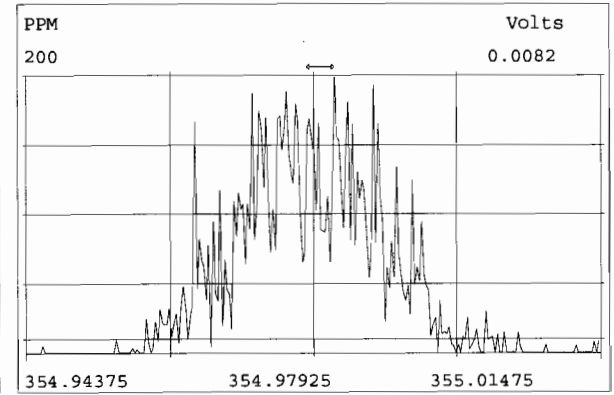
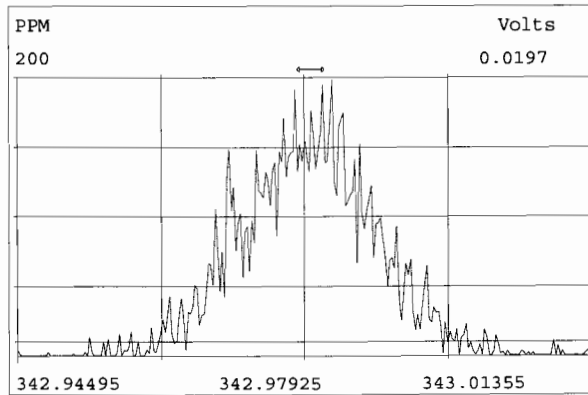
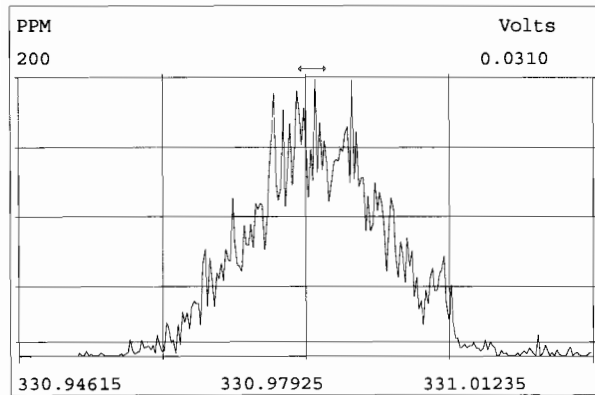
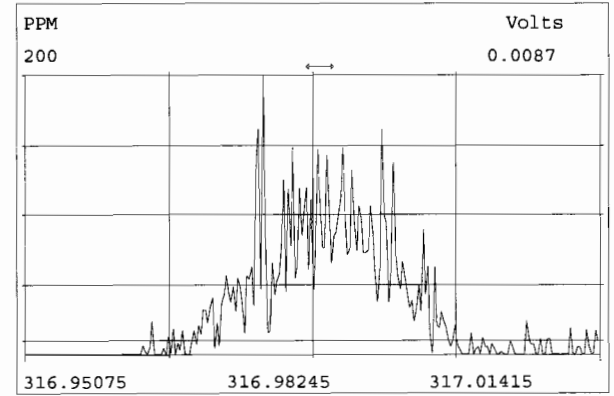
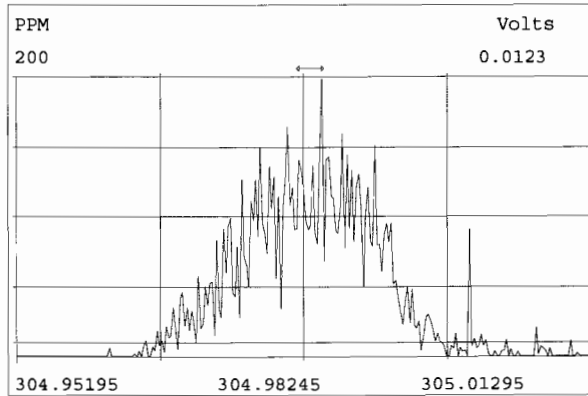
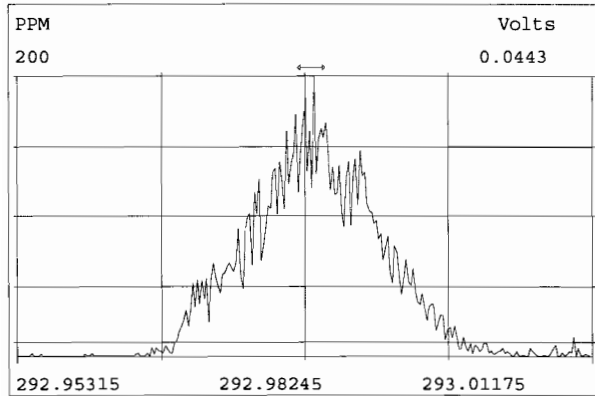


File:140918D1 #1-1683 Acq:18-SEP-2014 12:41:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:ST140918D1-1 1613 CS3 14F1201 Exp:TCDF\_DB225  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140918D1 #1-1683 Acq:18-SEP-2014 12:41:41 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:ST140918D1-1 1613 CS3 14F1201 Exp:TCDF\_DB225  
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





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)

&lt;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 REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002

(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			
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF		1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	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

(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: 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	27:07	1.021	96.548					96.5					
IS	13C-1,2,3,7,8-PeCDD	1.73e+07	0.63 y	31:36	1.190	86.979					87.0					
IS	13C-1,2,3,4,7,8-HxCDD	1.22e+07	1.26 y	34:57	1.014	96.412					96.4					
IS	13C-1,2,3,6,7,8-HxCDD	1.25e+07	1.24 y	35:03	1.017	97.874					97.9					
IS	13C-1,2,3,7,8,9-HxCDD	1.43e+07	1.20 y	35:21	1.026	94.035					94.0					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.09e+07	1.05 y	38:48	1.126	91.382					91.4					
IS	13C-OCDD	1.83e+07	0.91 y	42:10	1.224	181.78					90.9					
IS	13C-2,3,7,8-TCDF	2.59e+07	0.78 y	26:21	0.992	103.46					103					
IS	13C-1,2,3,7,8-PeCDF	2.40e+07	1.57 y	30:26	1.146	93.580					93.6					
IS	13C-2,3,4,7,8-PeCDF	2.33e+07	1.59 y	31:19	1.179	89.217					89.2					
IS	13C-1,2,3,4,7,8-HxCDF	1.66e+07	0.51 y	34:02	0.988	103.27					103					
IS	13C-1,2,3,6,7,8-HxCDF	1.95e+07	0.51 y	34:10	0.991	93.008					93.0					
IS	13C-2,3,4,6,7,8-HxCDF	1.69e+07	0.52 y	34:46	1.009	96.169					96.2					
IS	13C-1,2,3,7,8,9-HxCDF	1.50e+07	0.50 y	35:45	1.037	99.092					99.1					
IS	13C-1,2,3,4,6,7,8-HpCDF	1.26e+07	0.44 y	37:37	1.092	104.29					104					
IS	13C-1,2,3,4,7,8,9-HpCDF	1.06e+07	0.44 y	39:21	1.142	96.522					96.5					
IS	13C-OCDF	2.30e+07	0.92 y	42:24	1.230	177.66					88.8					
C/Up	37C1-2,3,7,8-TCDD	2.00e+06		27:09	1.022	10.471					26.2					
			1.04													
RS/RT	13C-1,2,3,4-TCDD	1.83e+07	0.81 y	26:34	*	100.00										
RS	13C-1,2,3,4-TCDF	2.59e+07	0.75 y	25:09	*	100.00										
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.70e+07	0.52 y	34:28	*	100.00										

Integrations  
by  
Analyst: MAJ  
Date: 9/22/14  
Reviewed  
by  
Analyst: MP  
Date: 9/22/14

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

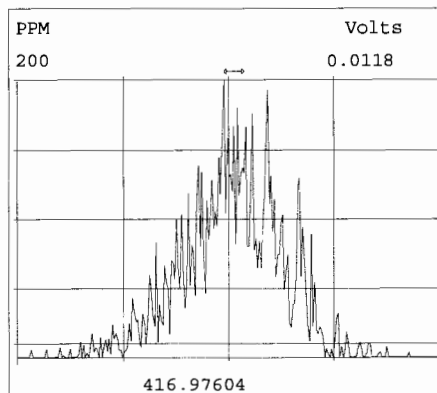
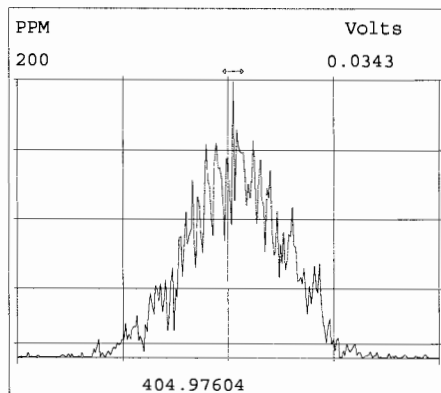
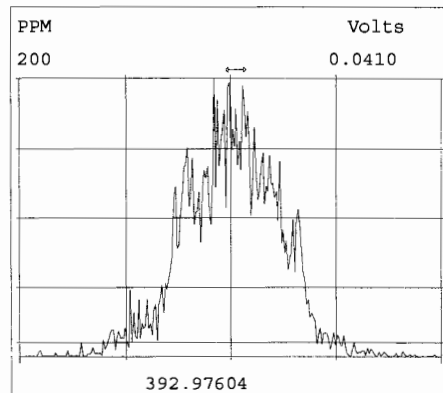
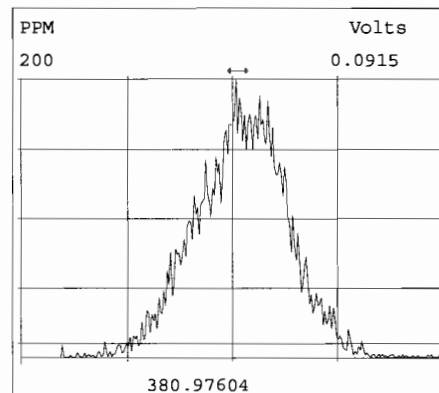
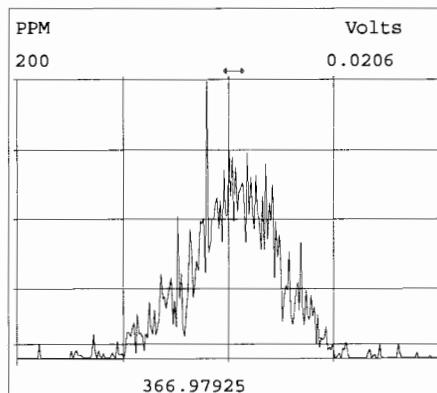
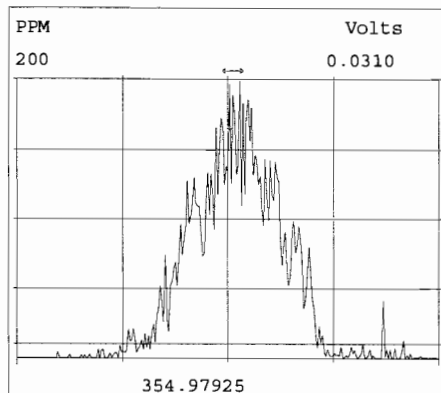
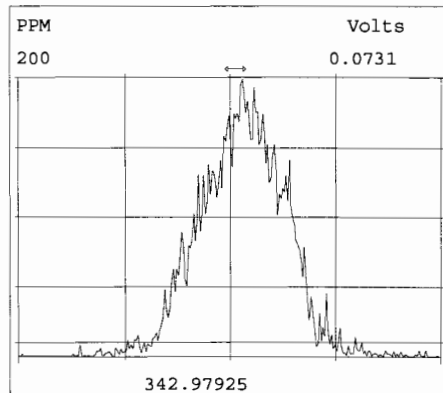
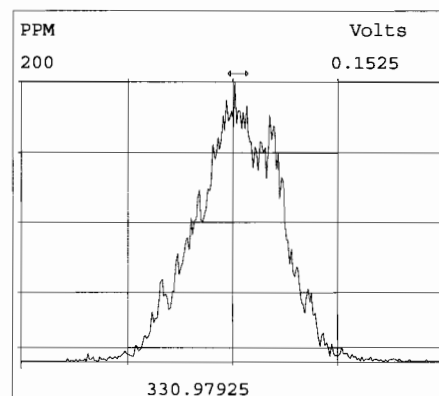
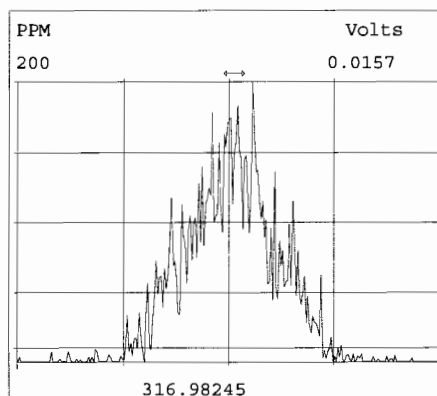
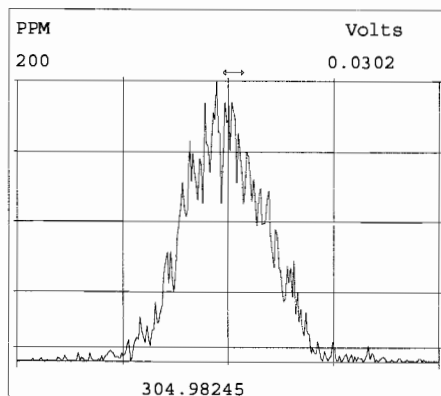
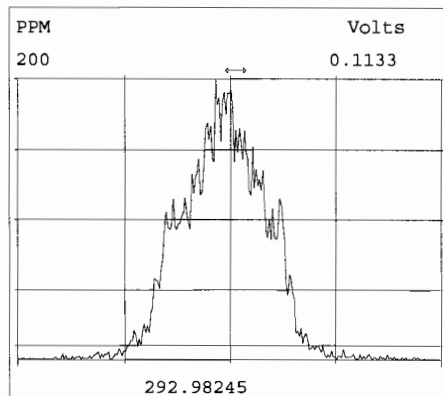
	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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>

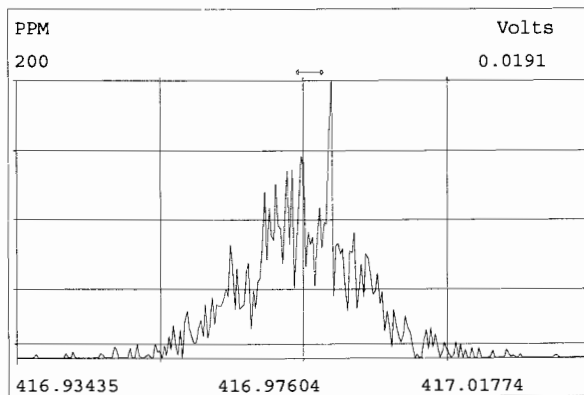
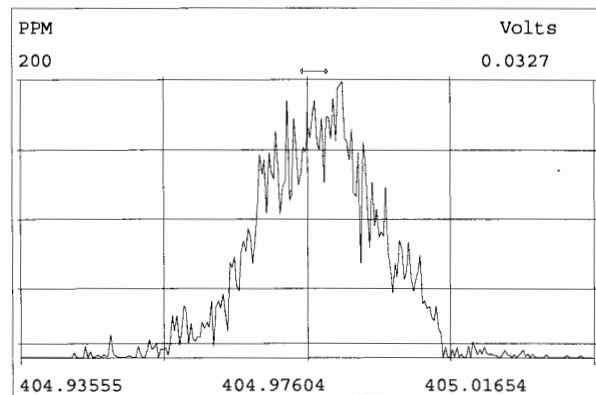
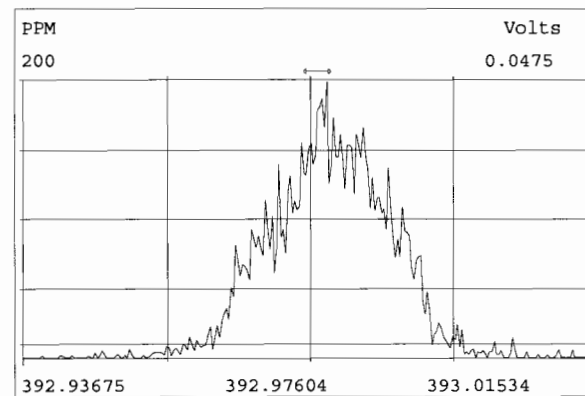
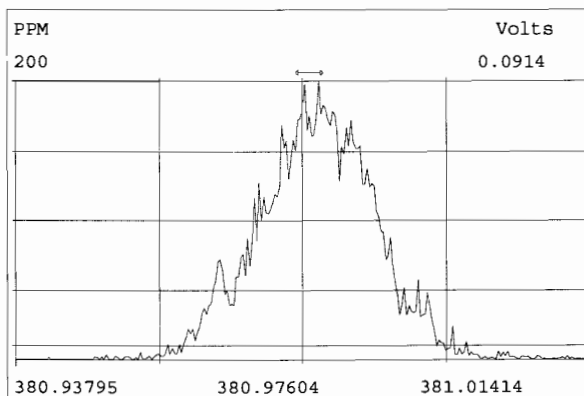
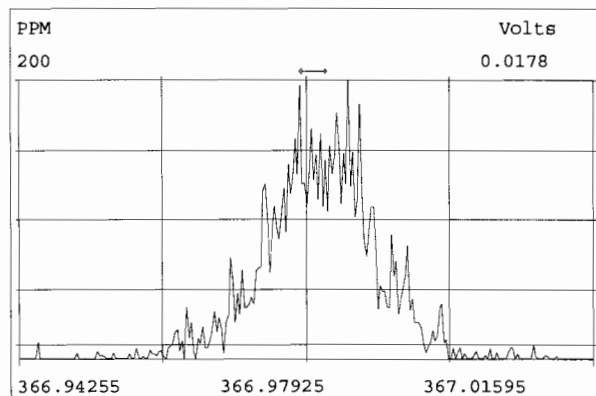
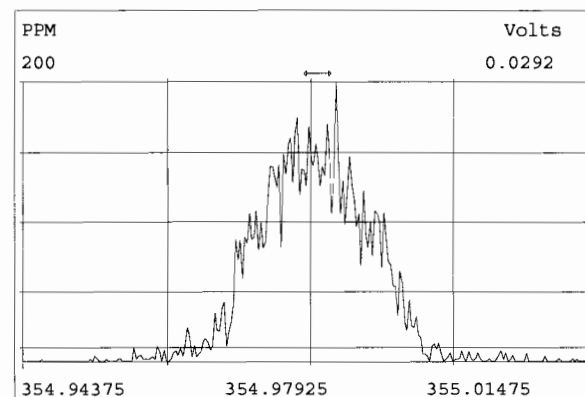
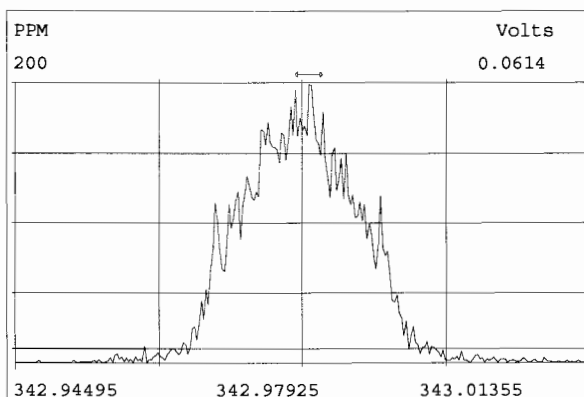
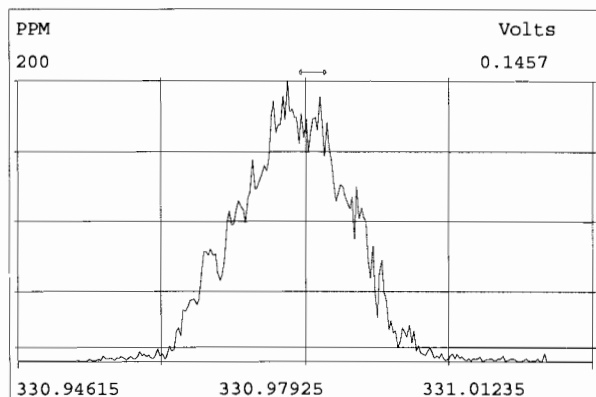
	<u>Beg.</u>	<u>End</u>
Mass resolution > <u>10,000</u> ? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>TCDD/TCDF</u> valleys < 25%?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<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"/>

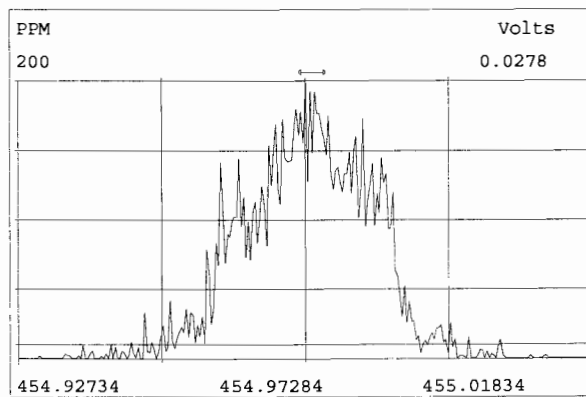
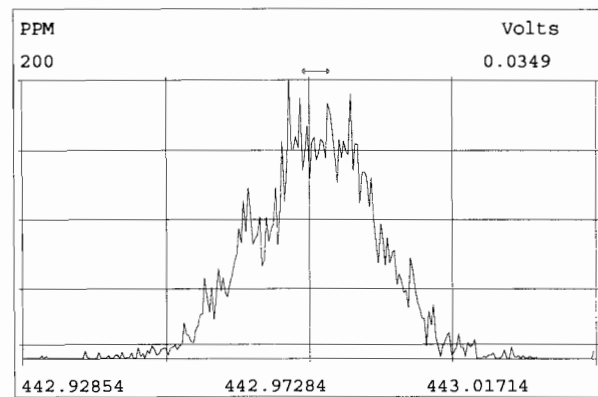
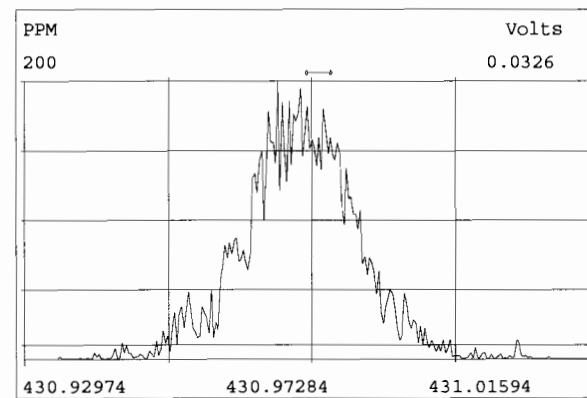
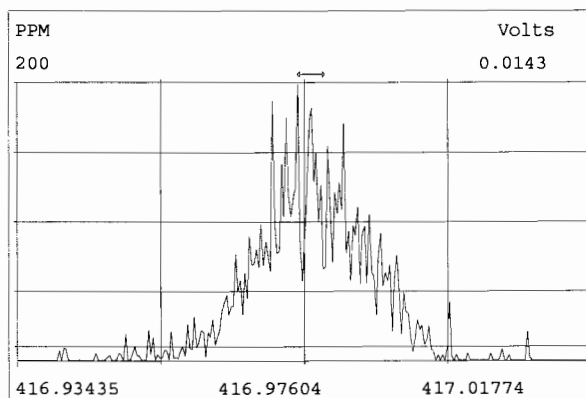
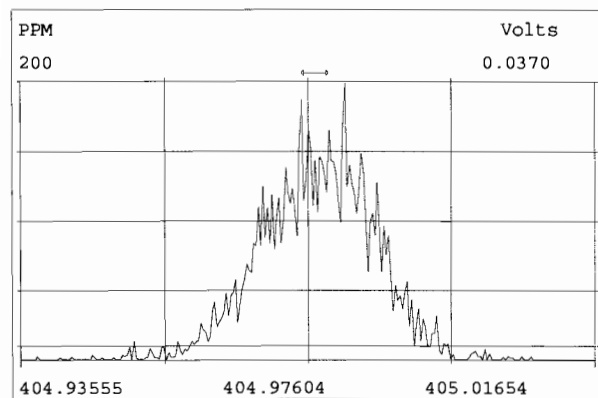
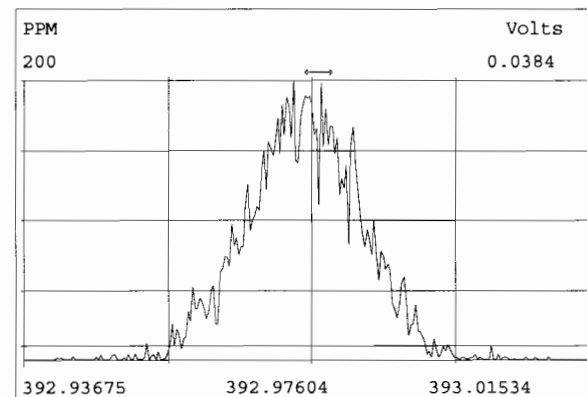
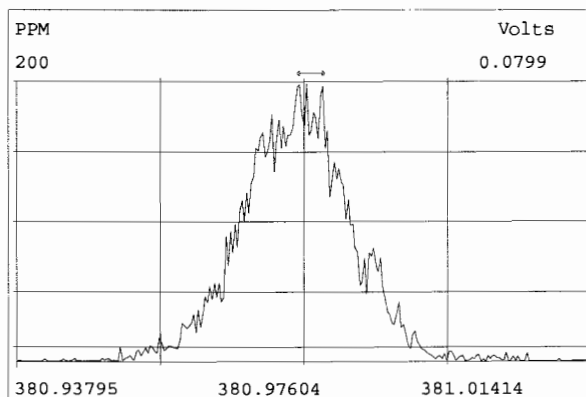
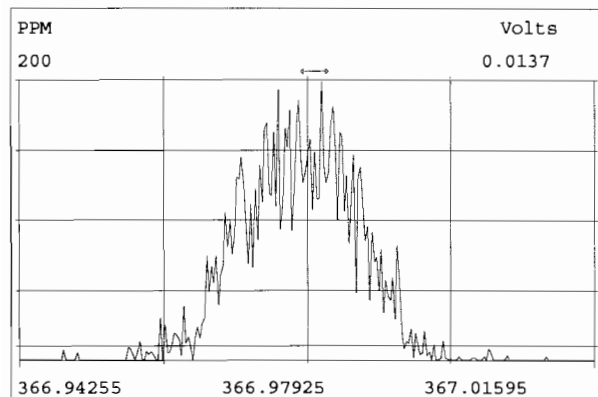
**Comments:**

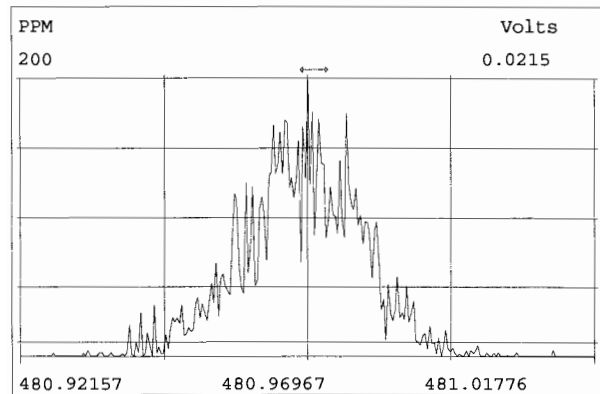
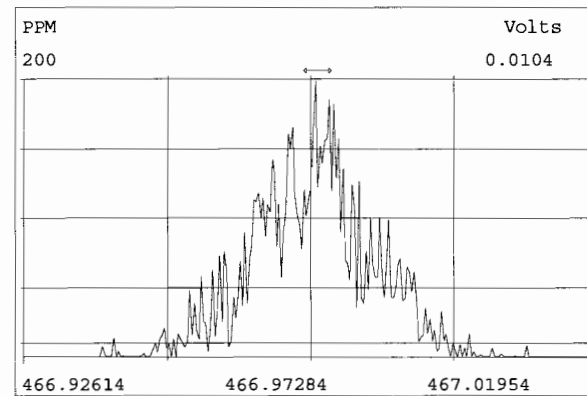
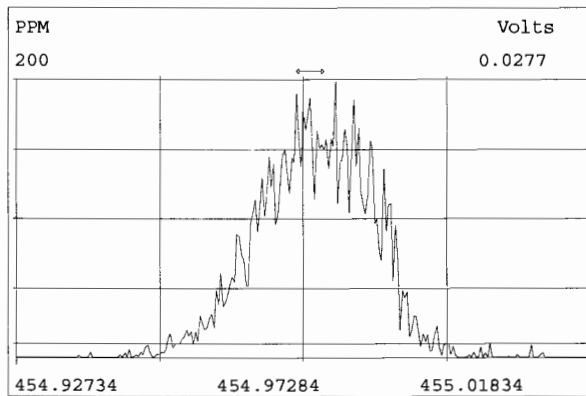
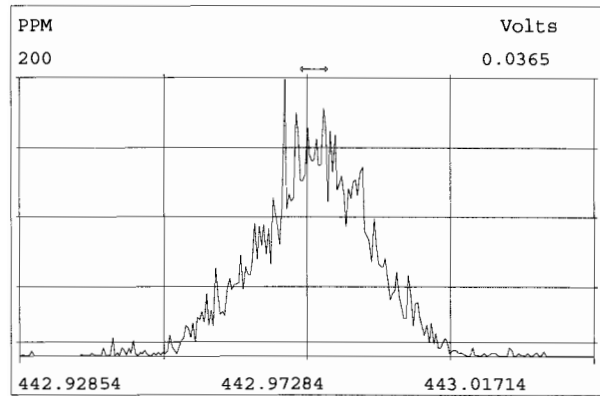
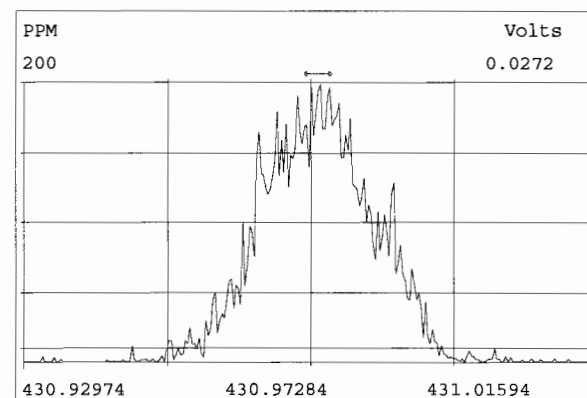
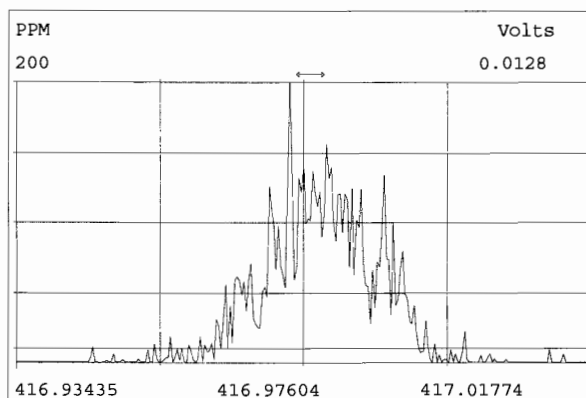
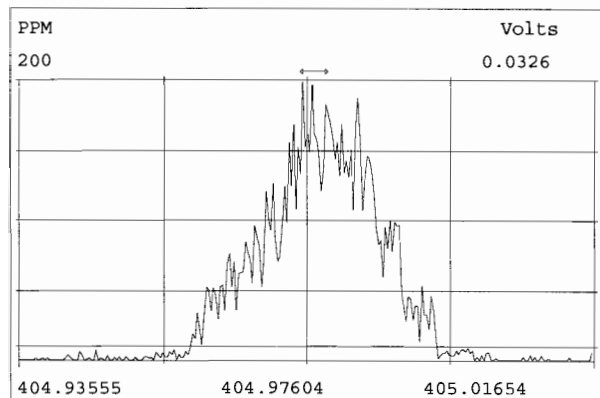
Reviewed by: [Signature] 9/23/14  
Initials & Date

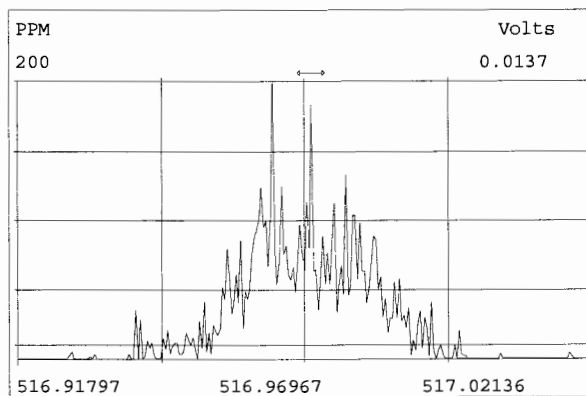
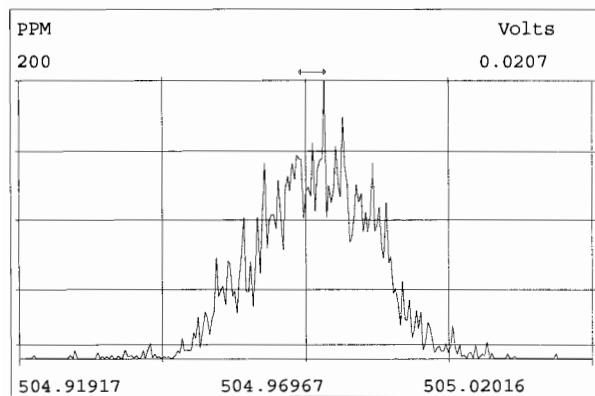
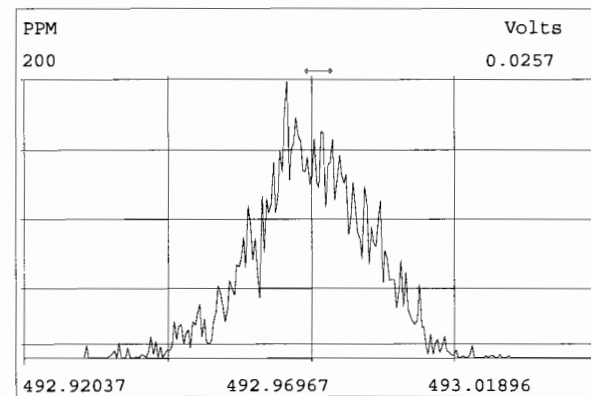
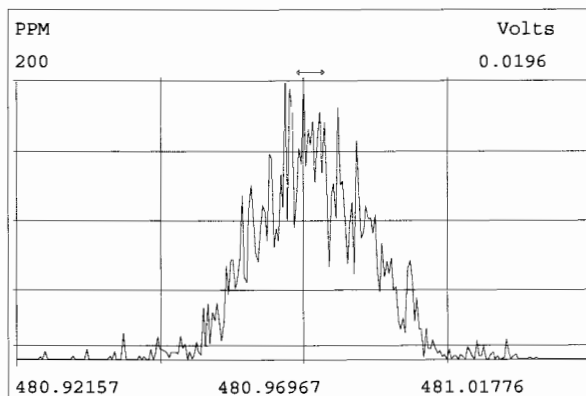
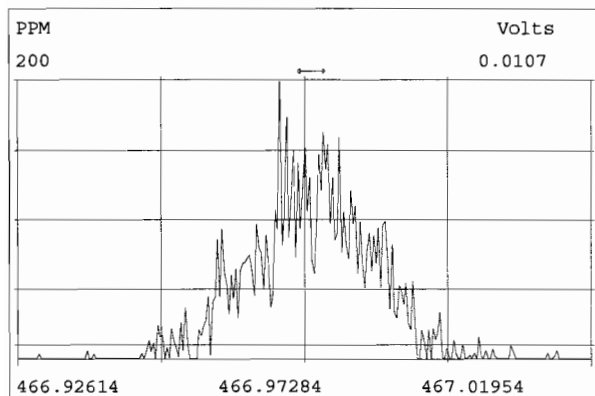
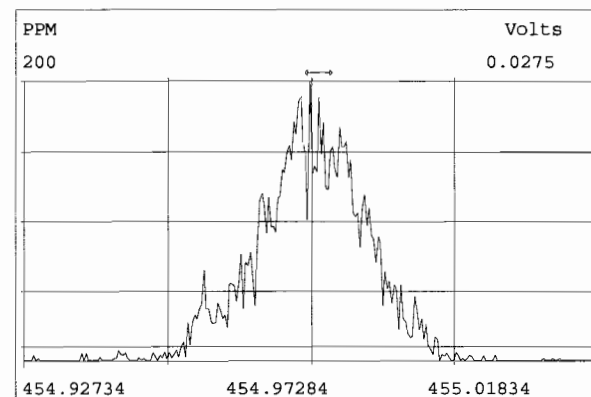
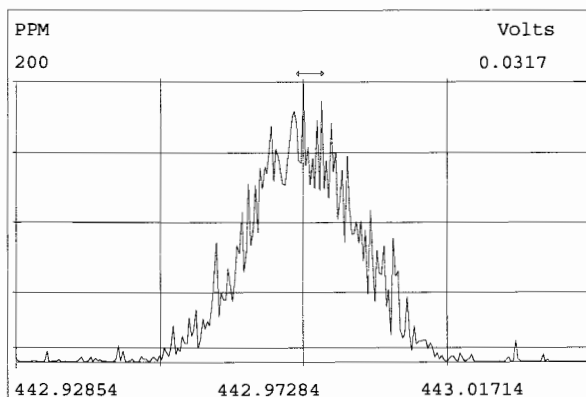
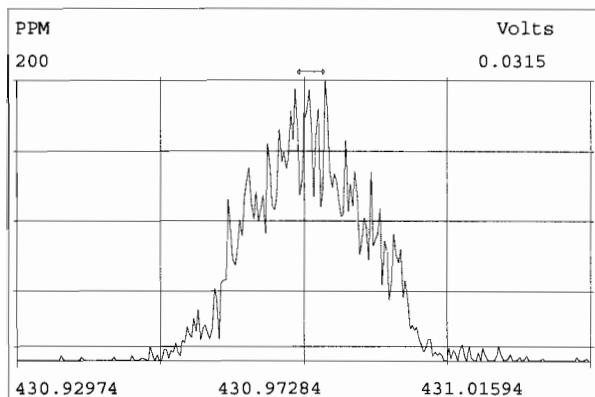
\* Ending standard criteria applicable to 8290 only.





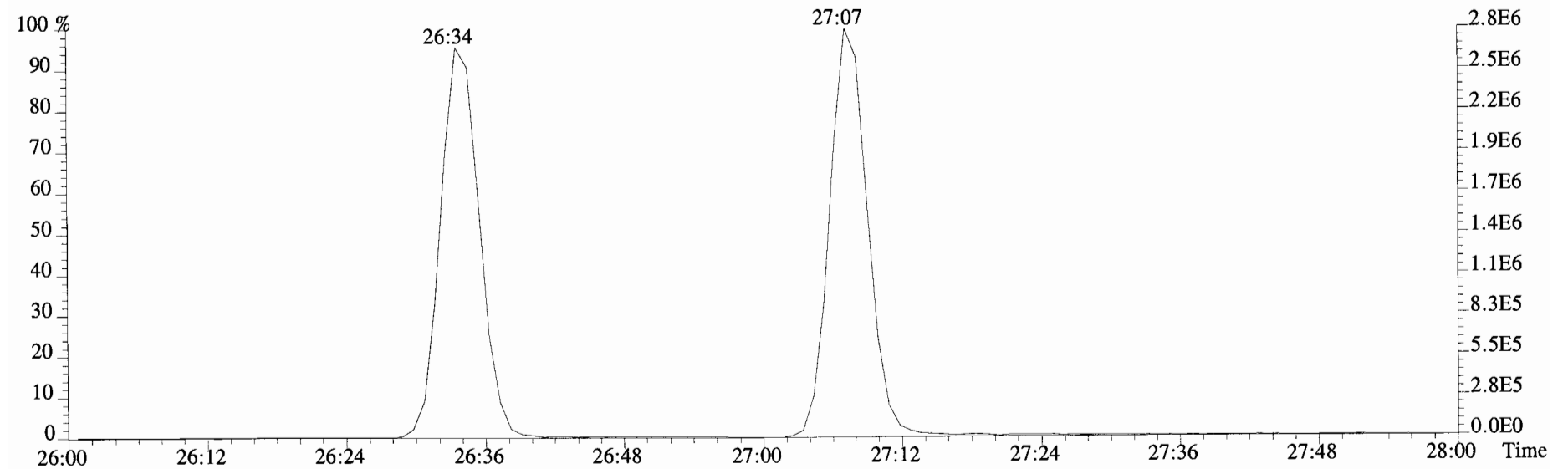
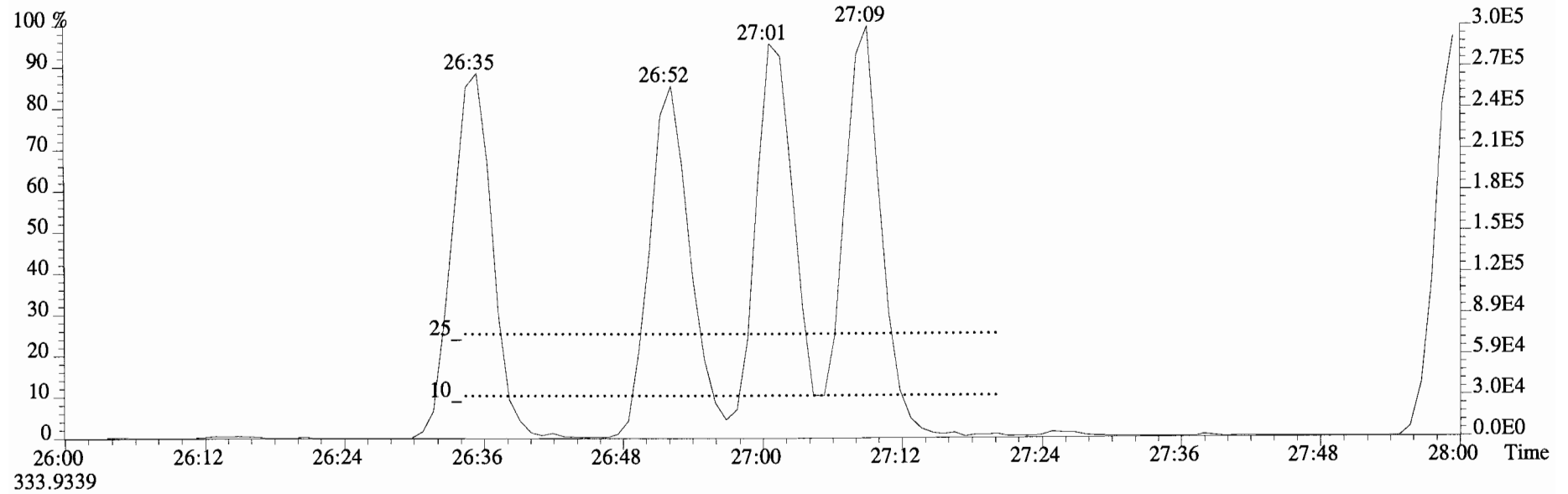




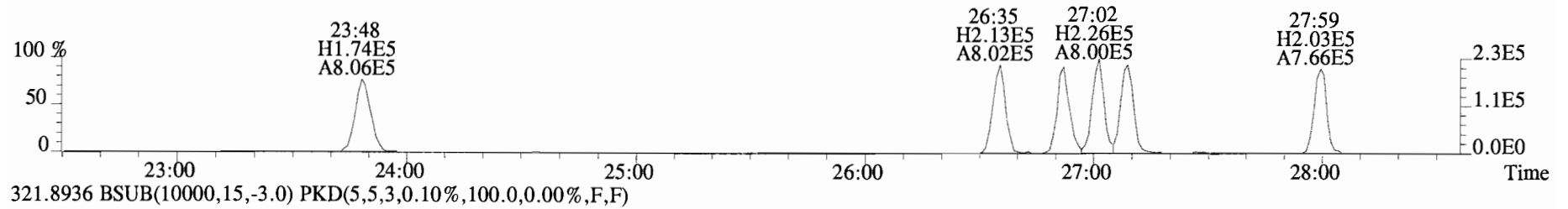




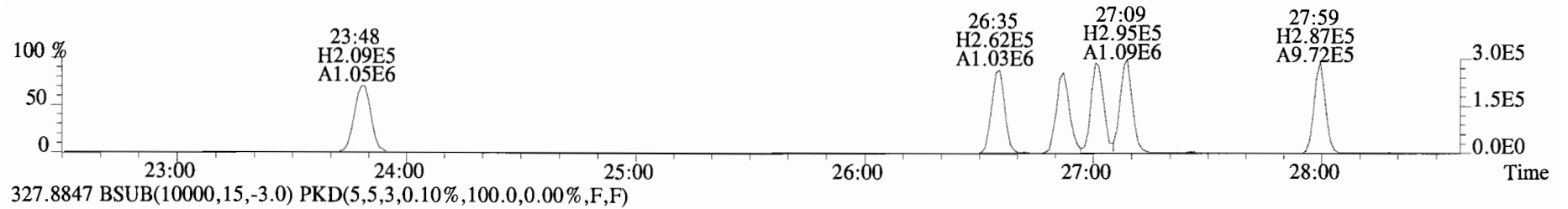
File:140922D1 #1-552 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
321.8936



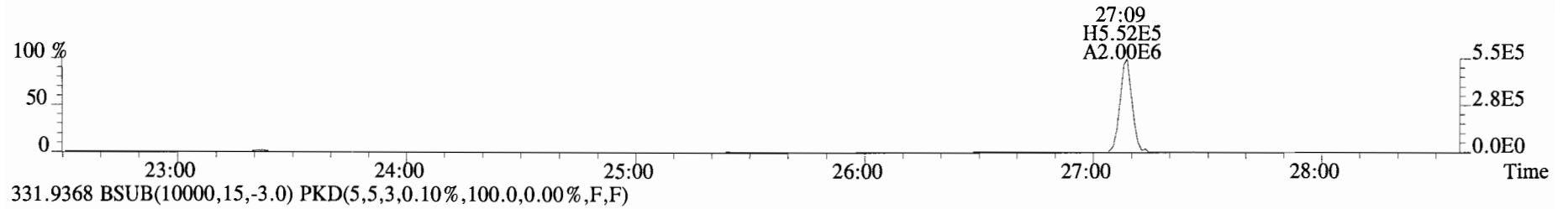
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Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



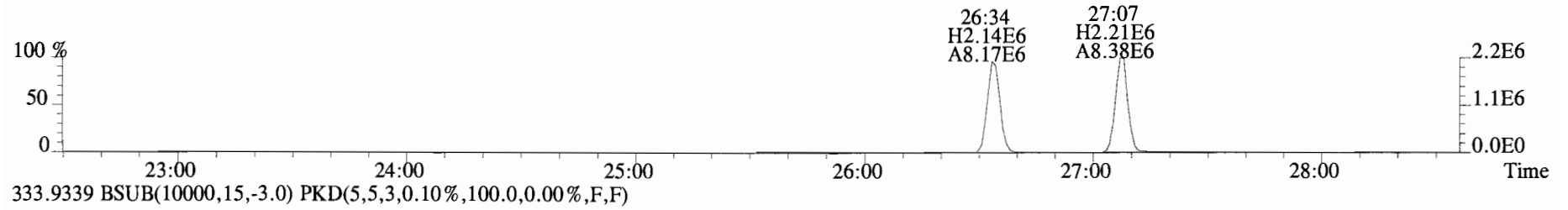
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



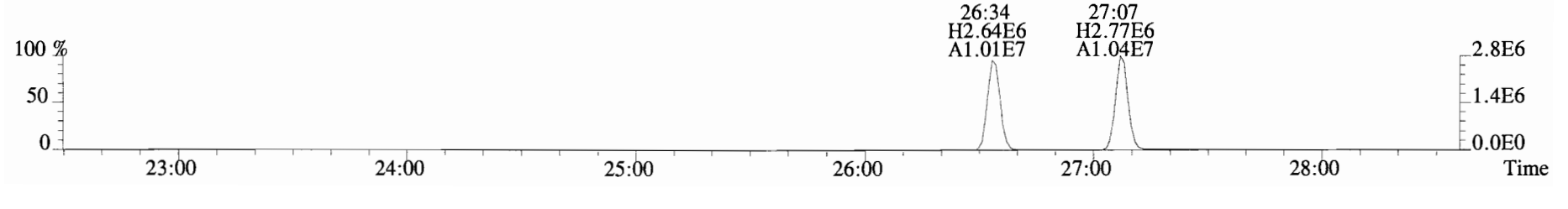
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



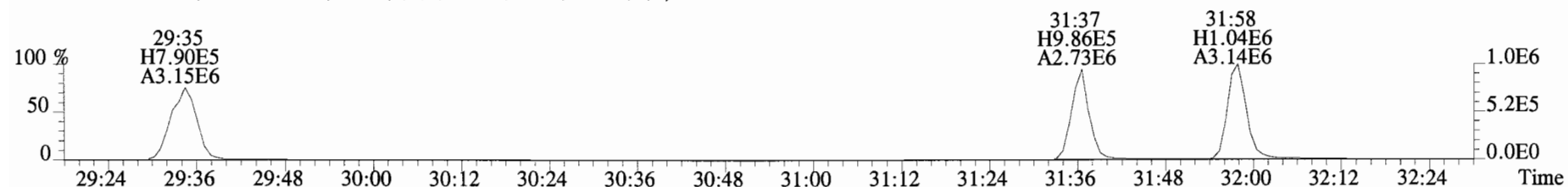
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



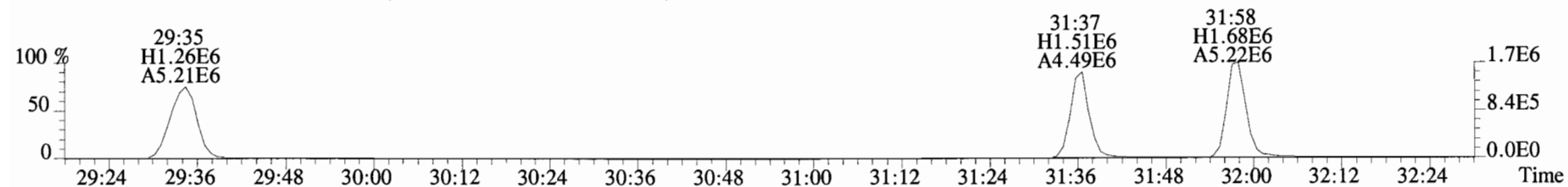
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



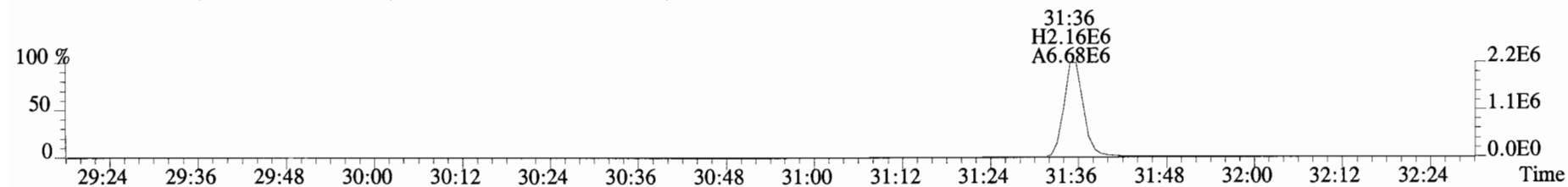
File:140922D1 #1-256 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



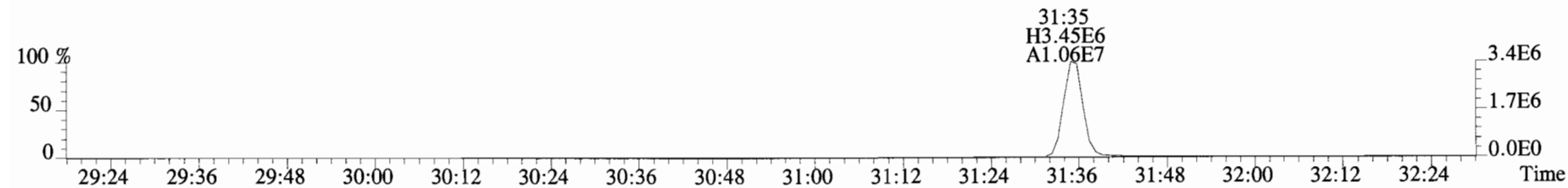
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



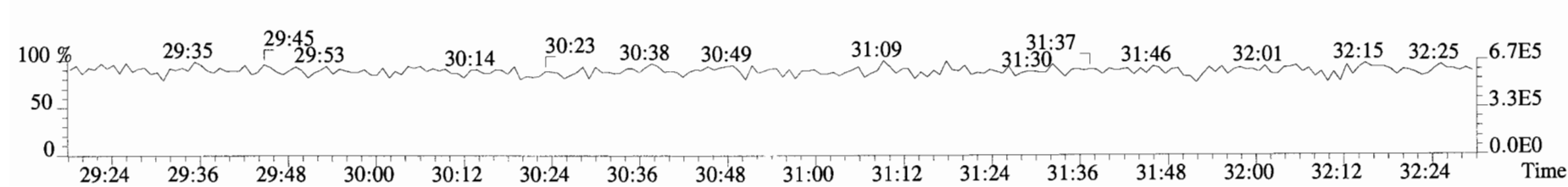
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



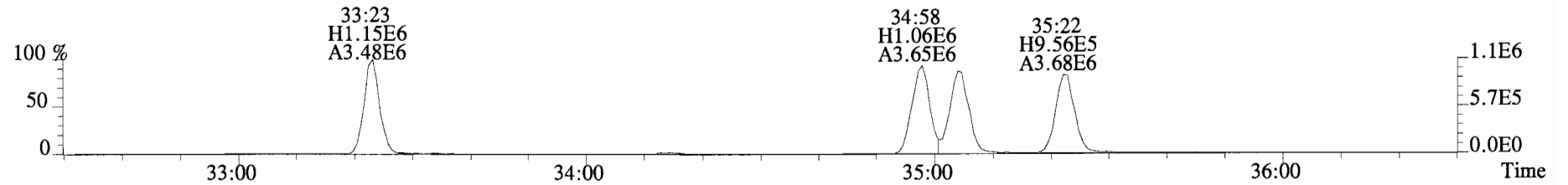
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



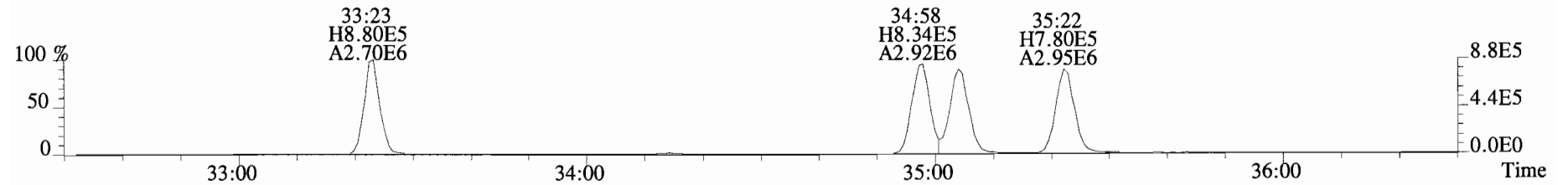
366.9792 F:2



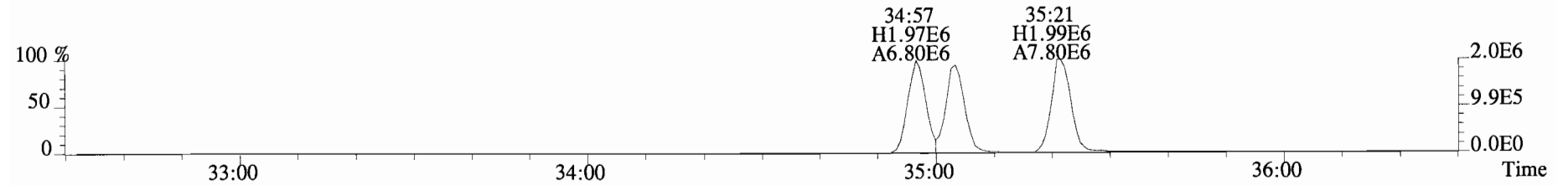
File:140922D1 #1-385 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



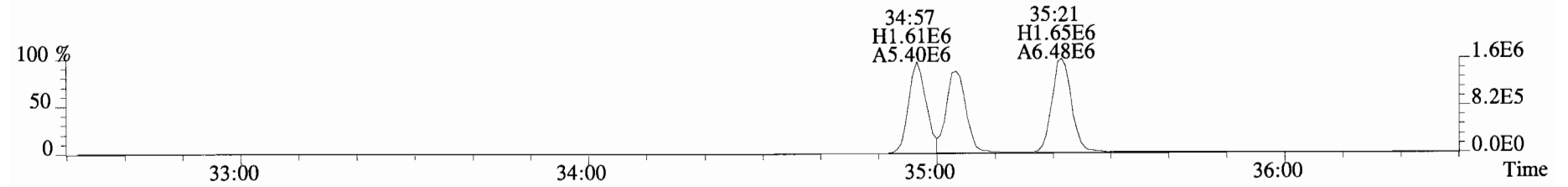
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



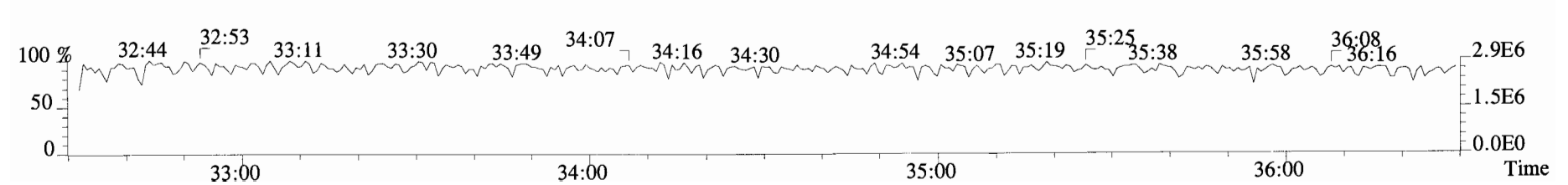
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



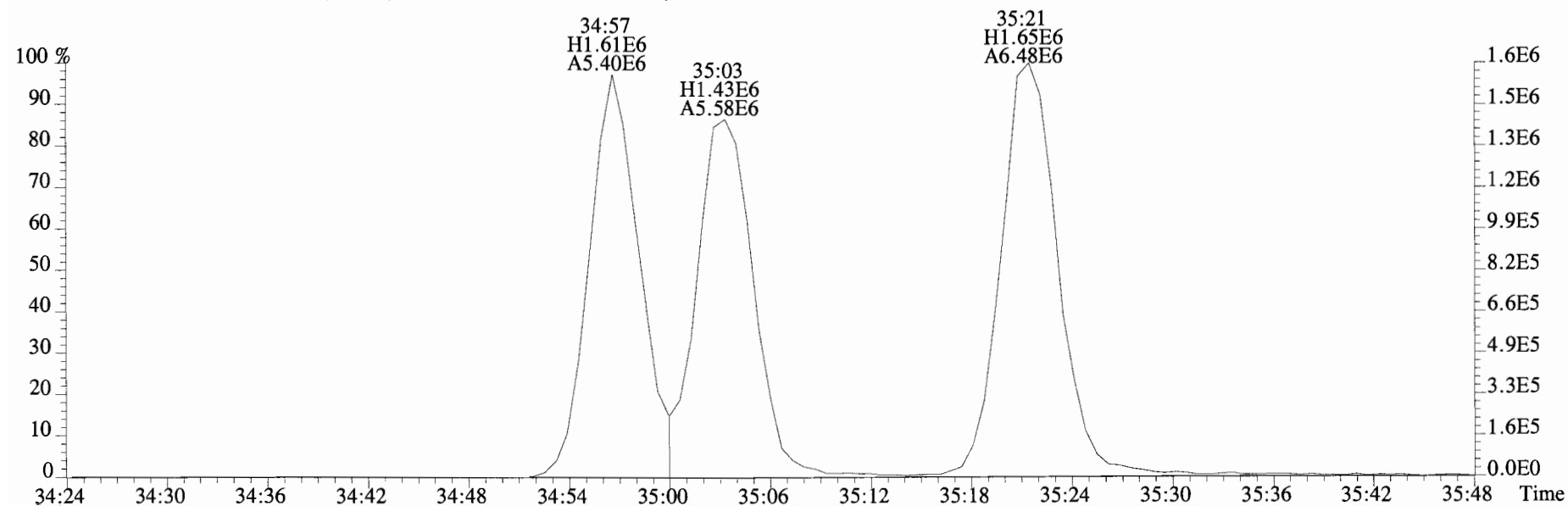
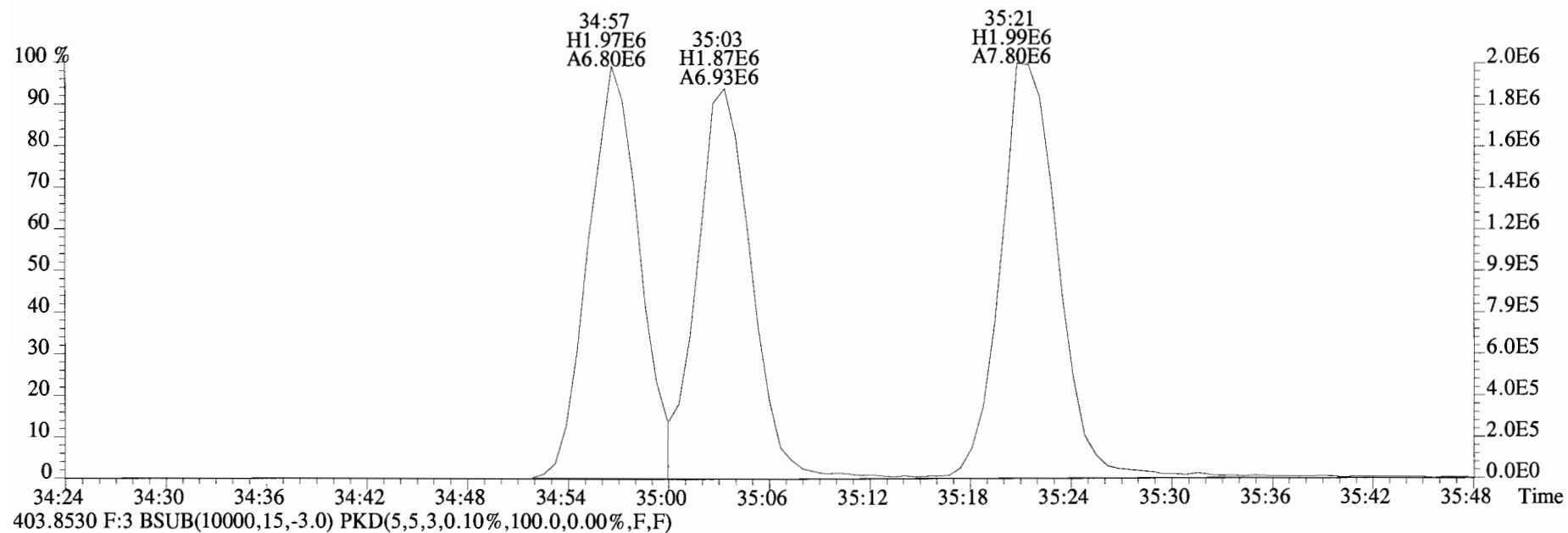
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



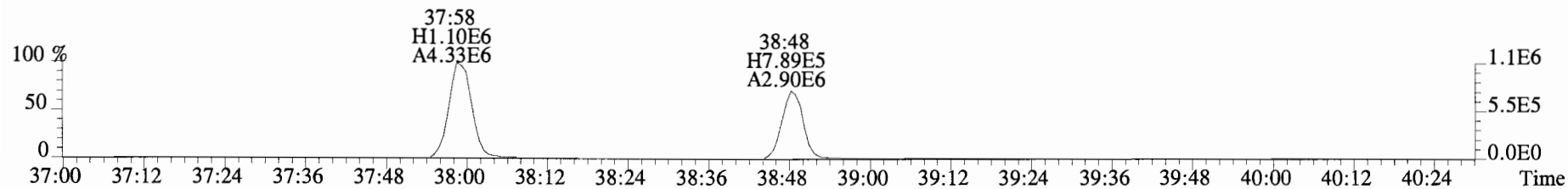
380.9760 F:3



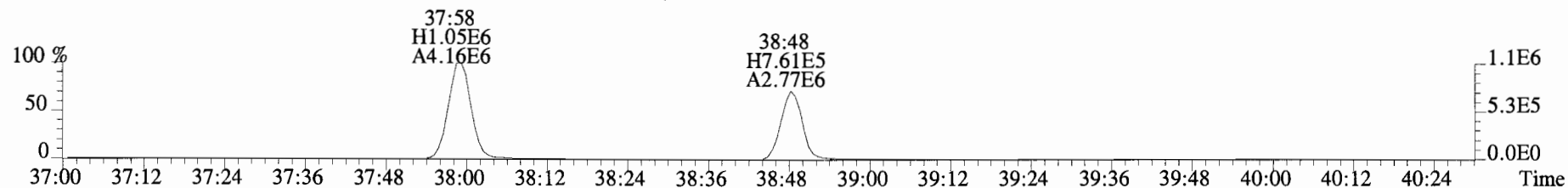
File:140922D1 #1-385 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



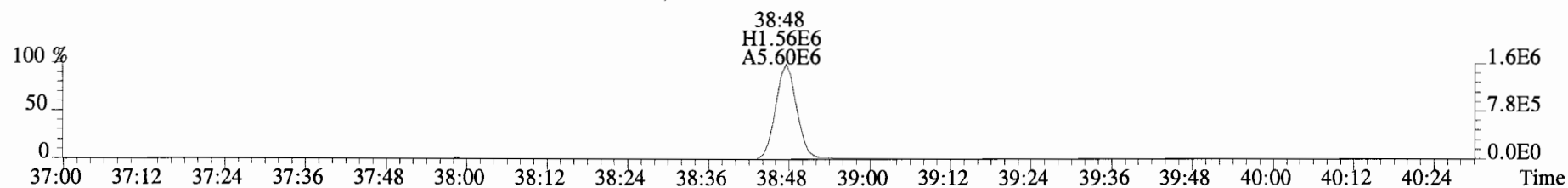
File:140922D1 #1-326 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



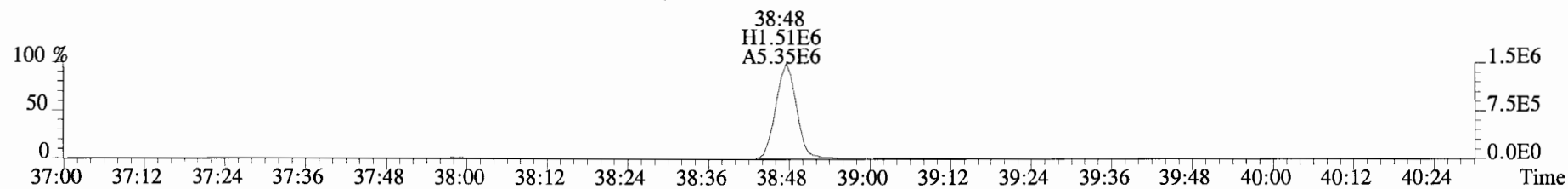
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



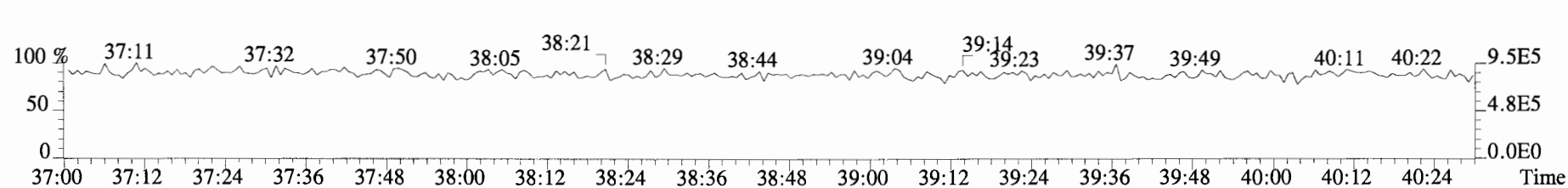
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



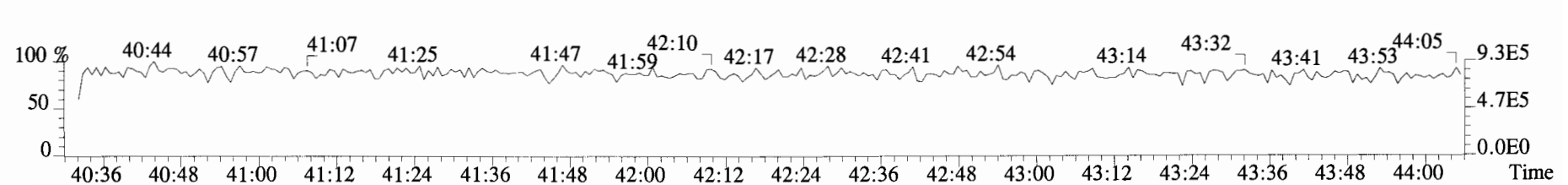
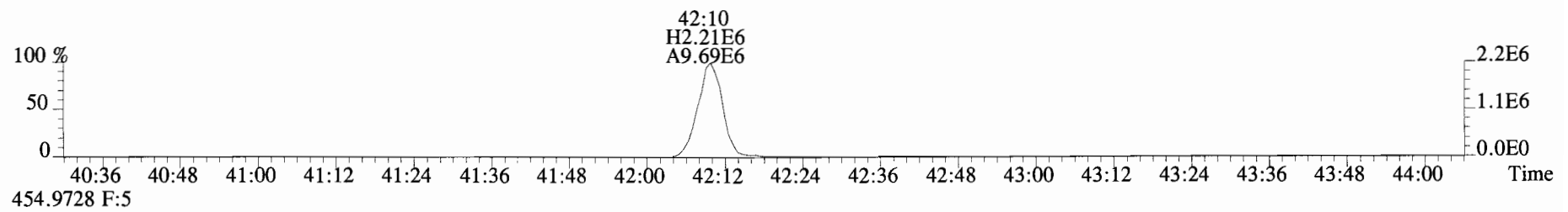
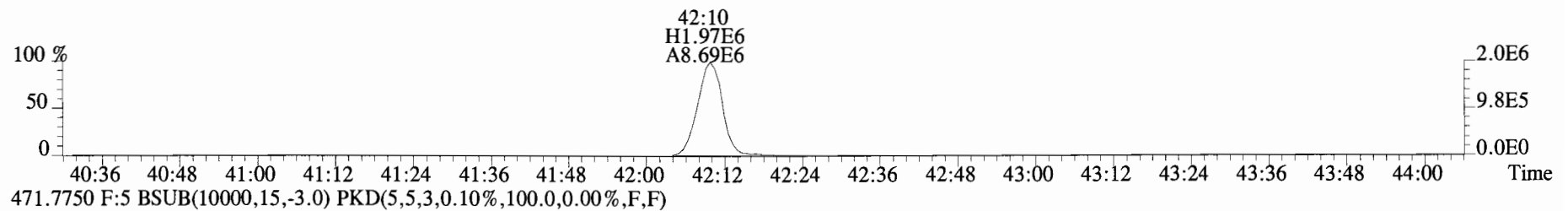
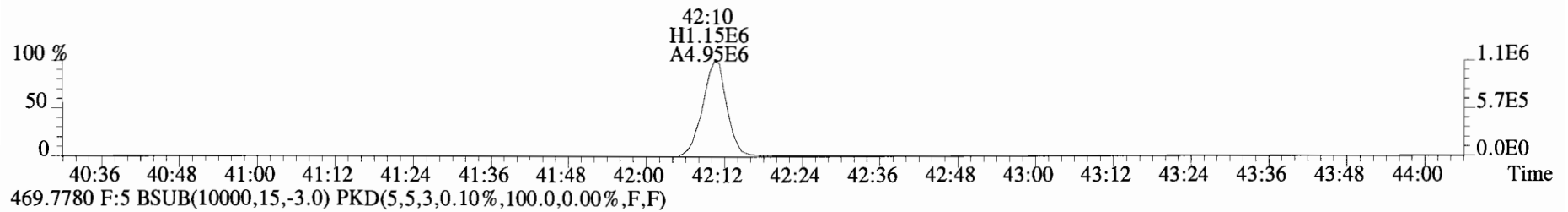
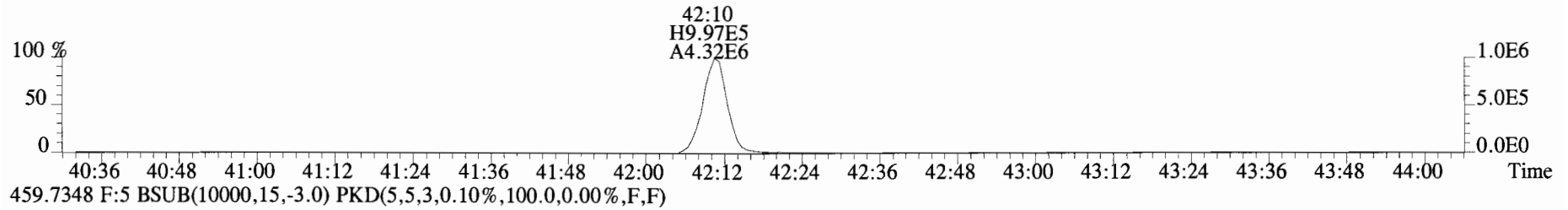
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



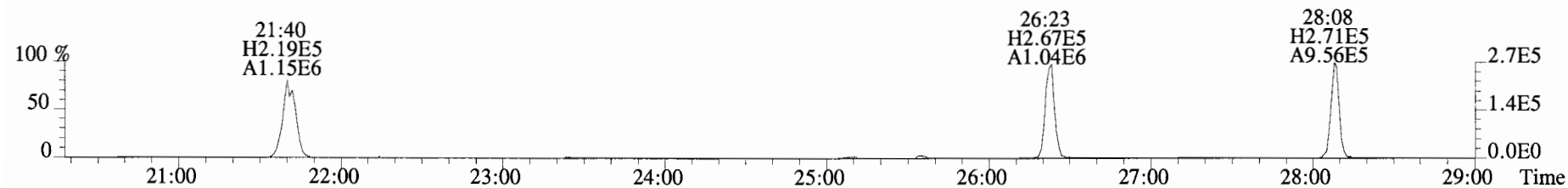
430.9728 F:4



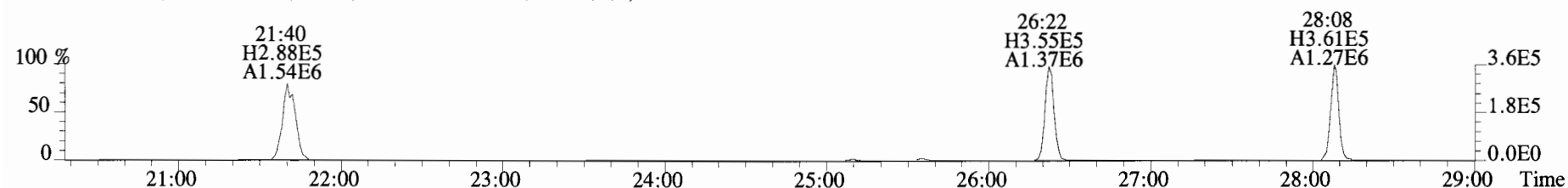
File:140922D1 #1-388 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



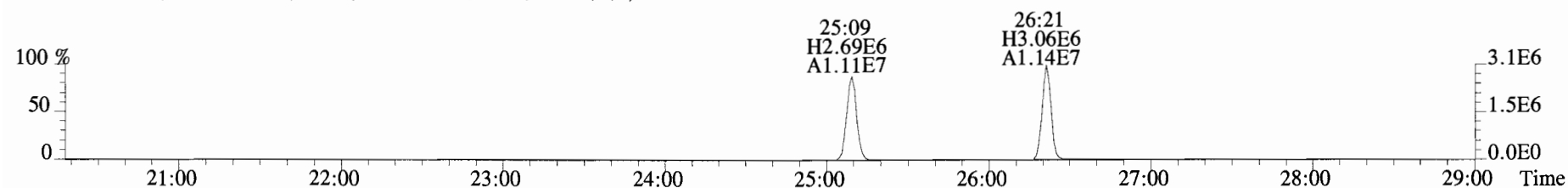
File:140922D1 #1-552 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



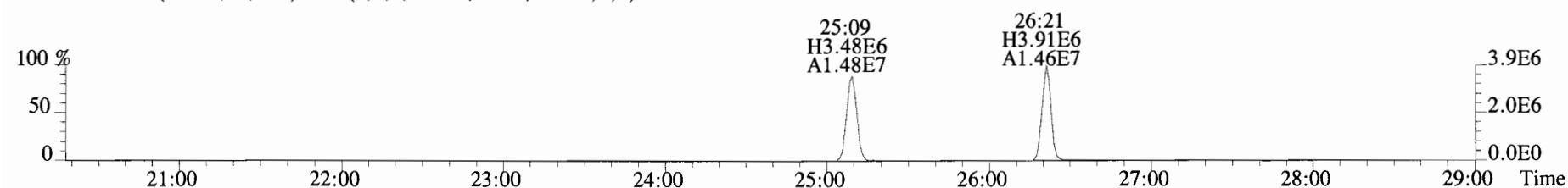
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



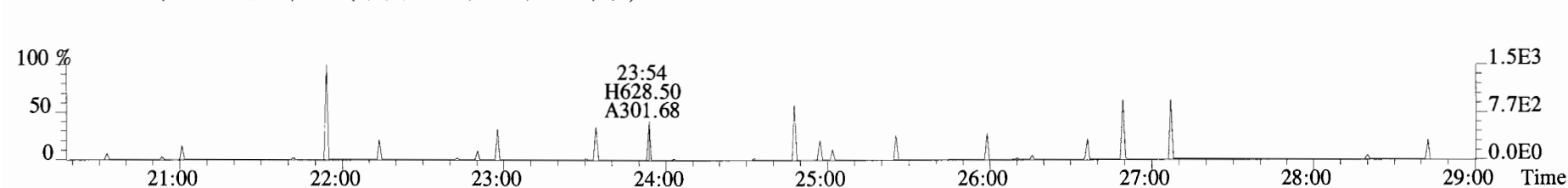
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

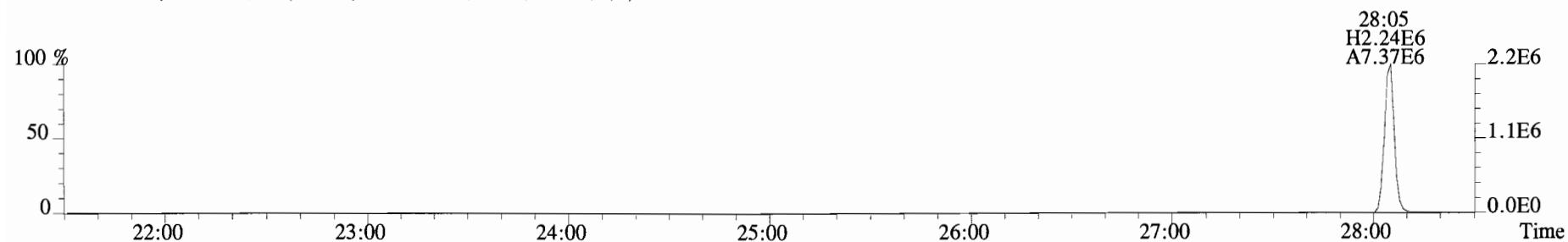


375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

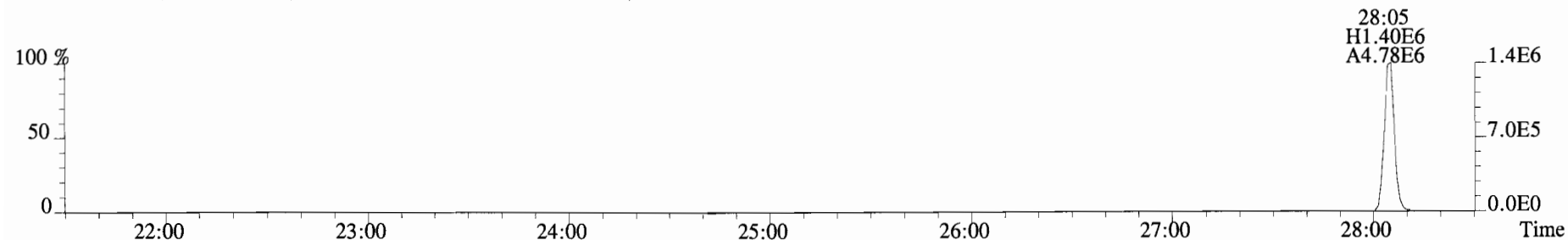




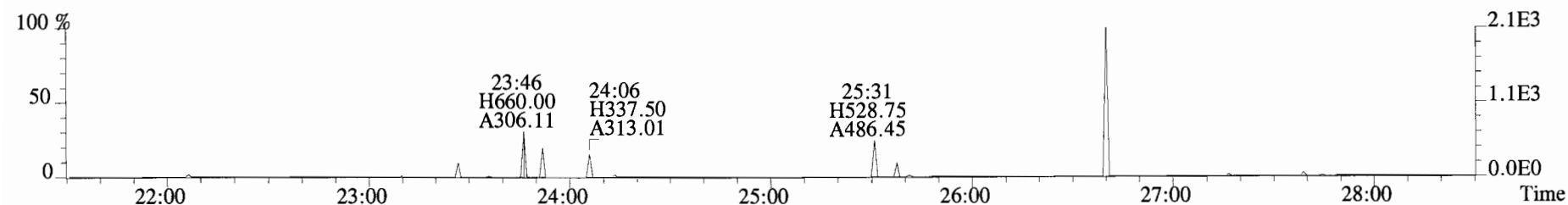
File:140922D1 #1-552 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



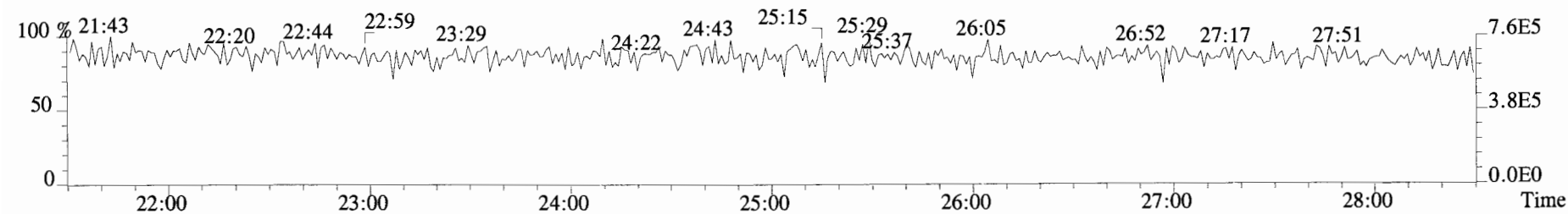
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



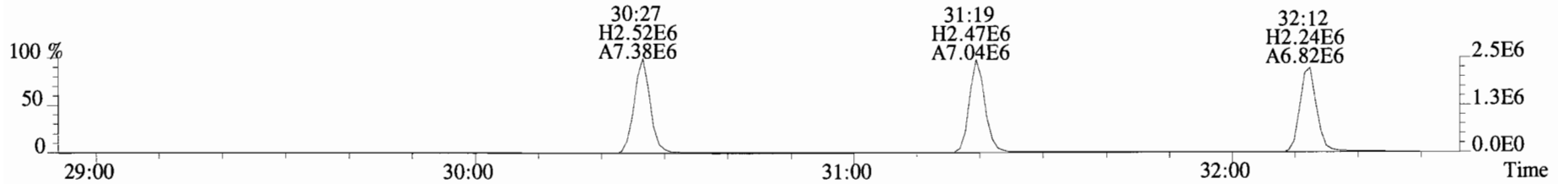
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



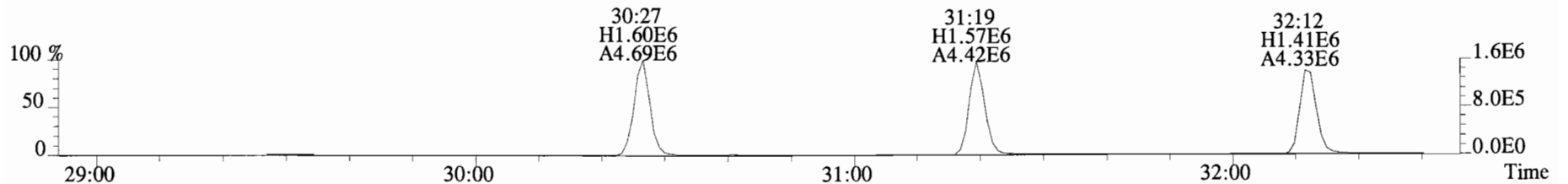
316.9824



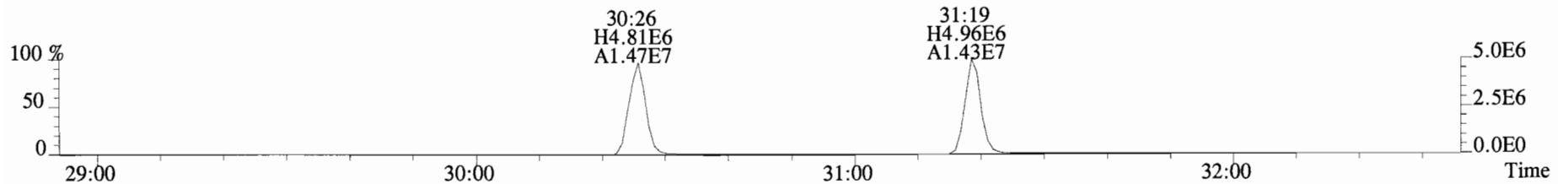
File:140922D1 #1-256 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



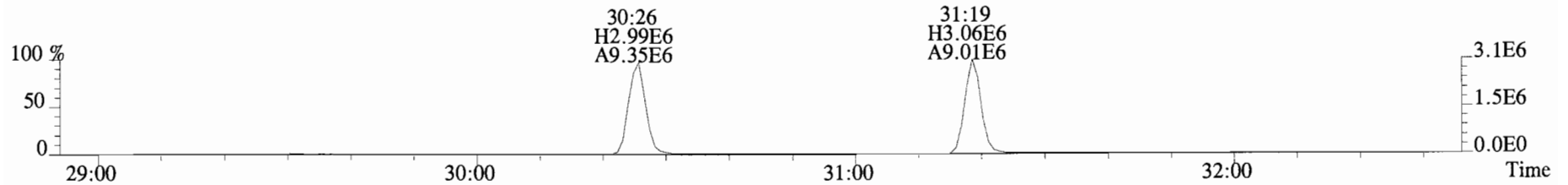
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



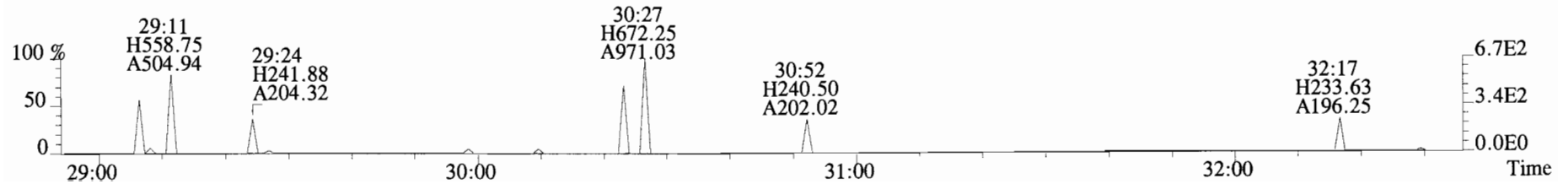
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



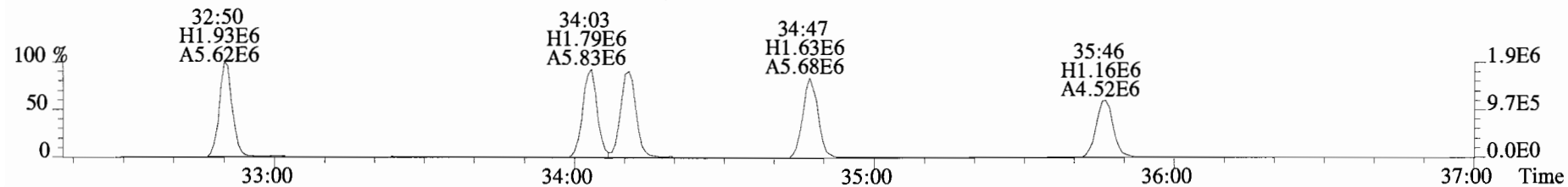
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



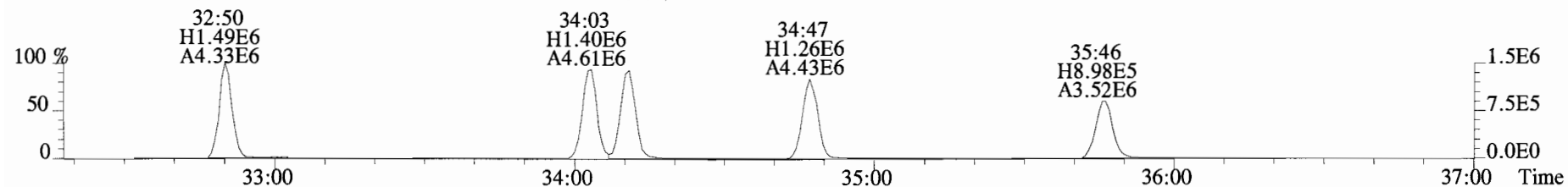
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



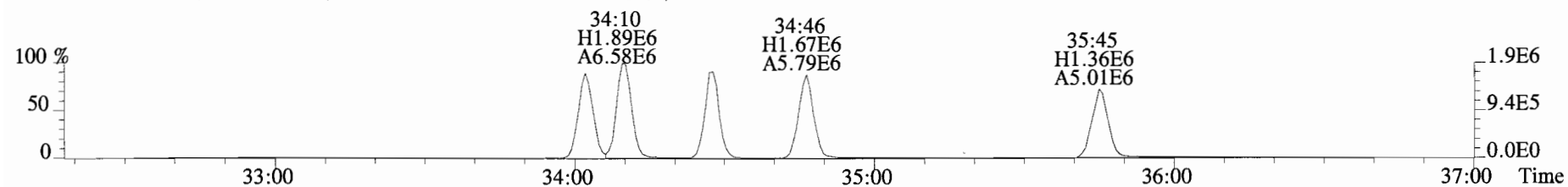
File:140922D1 #1-385 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



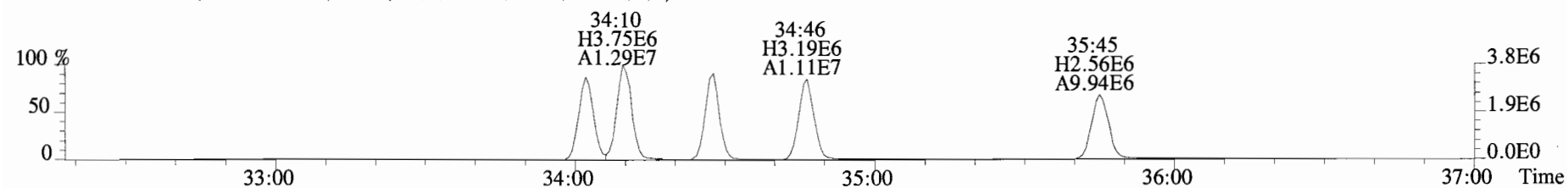
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



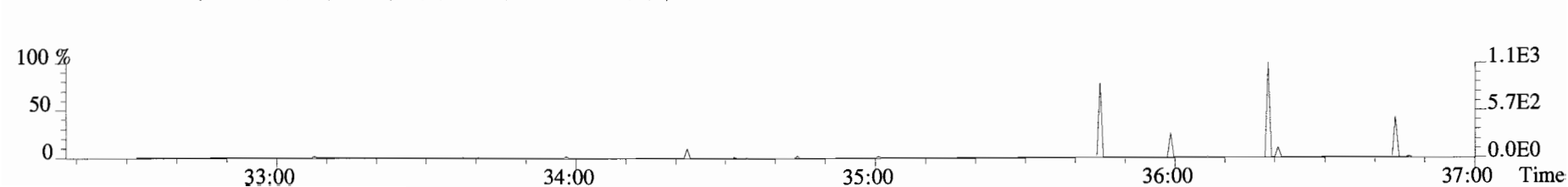
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



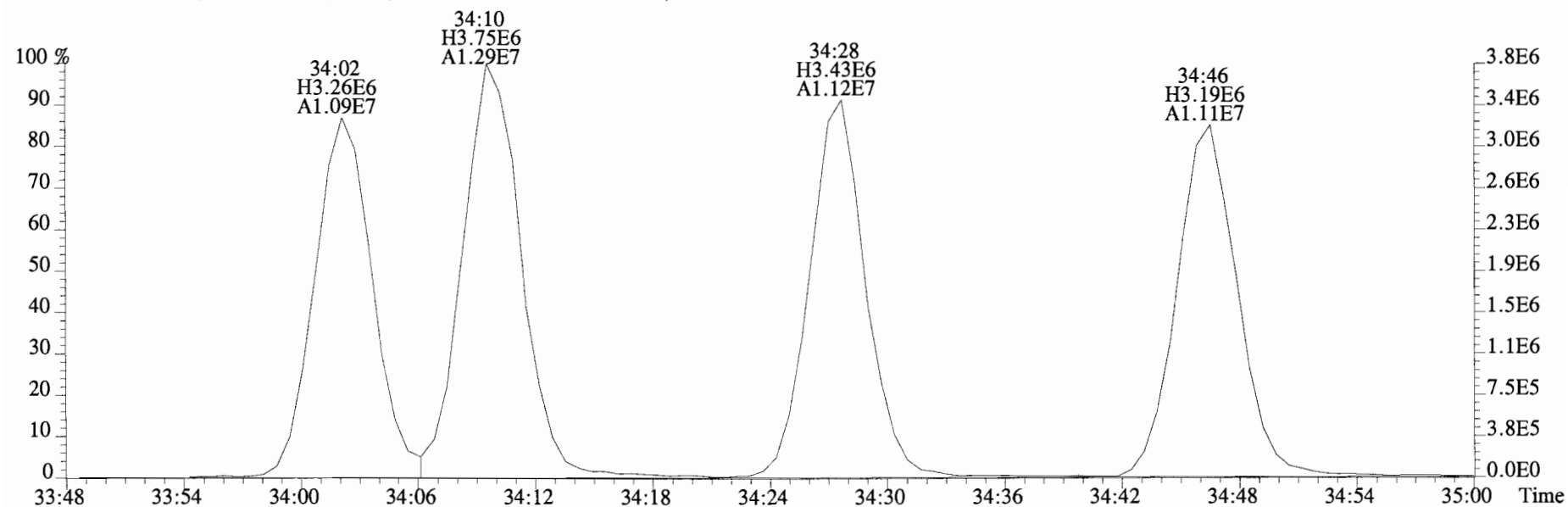
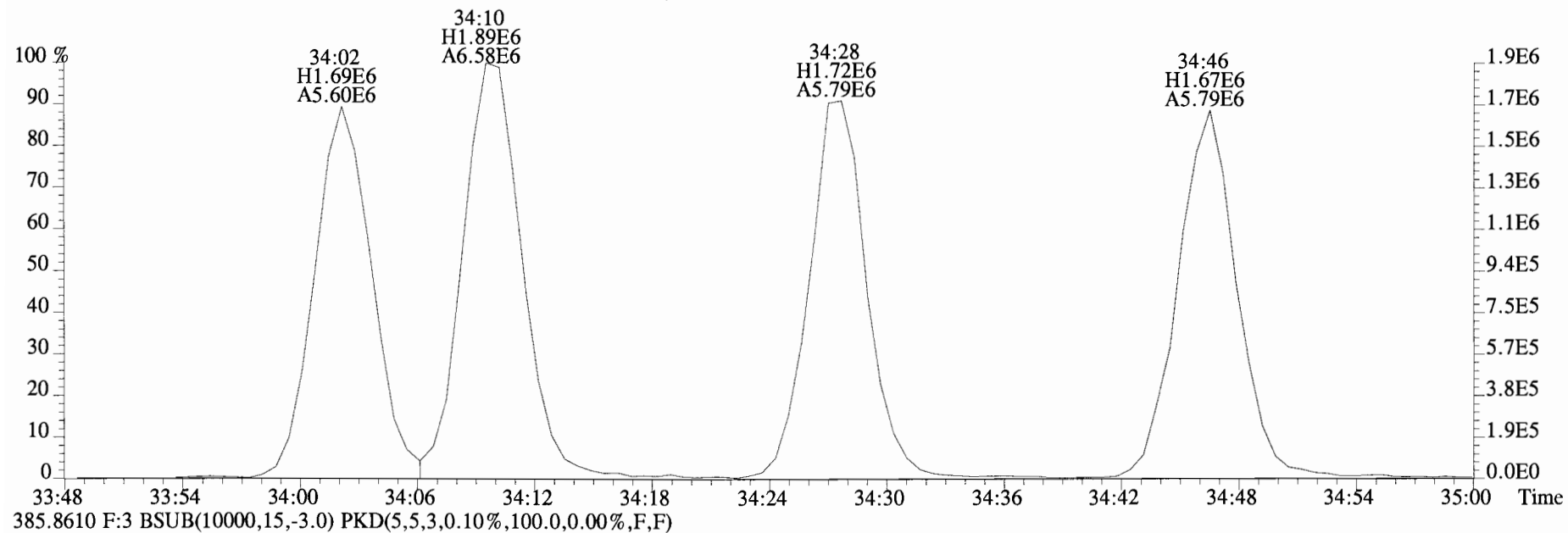
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



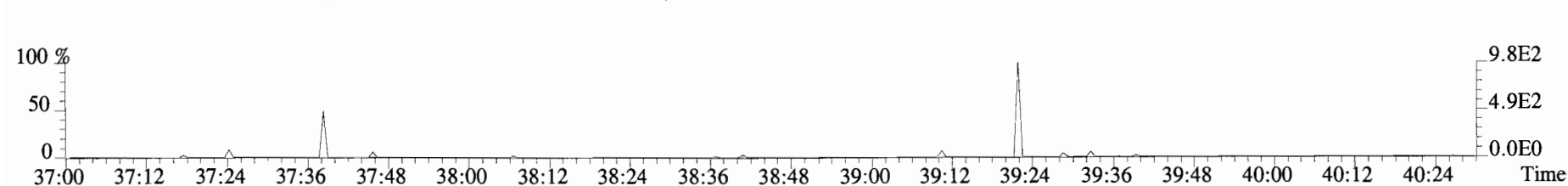
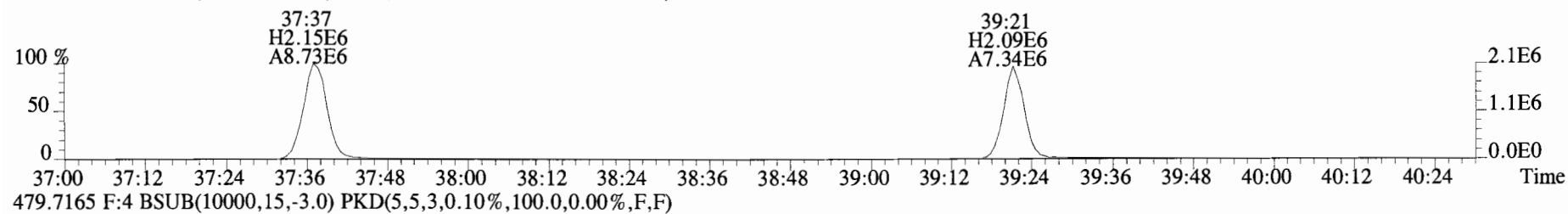
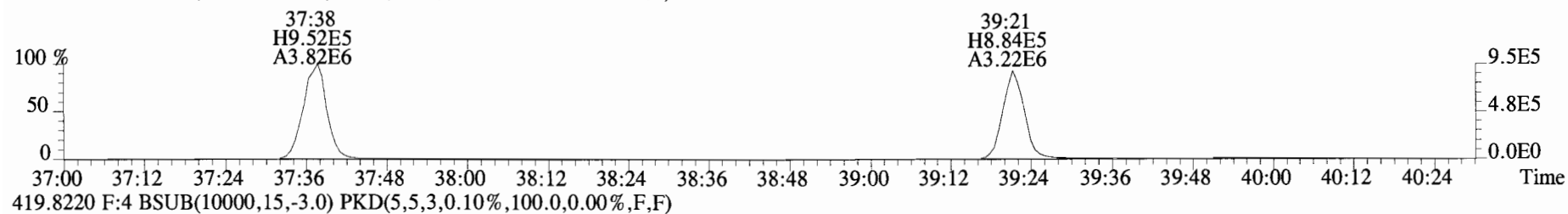
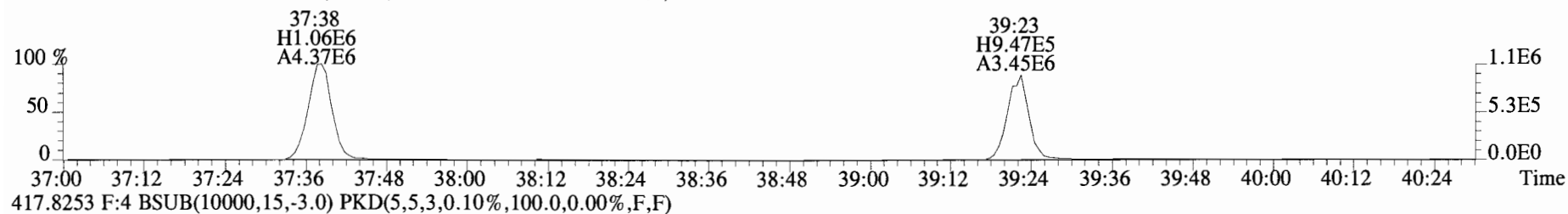
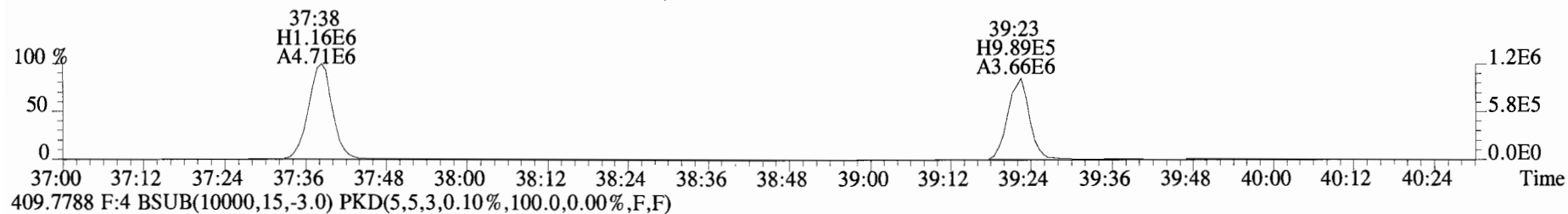
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



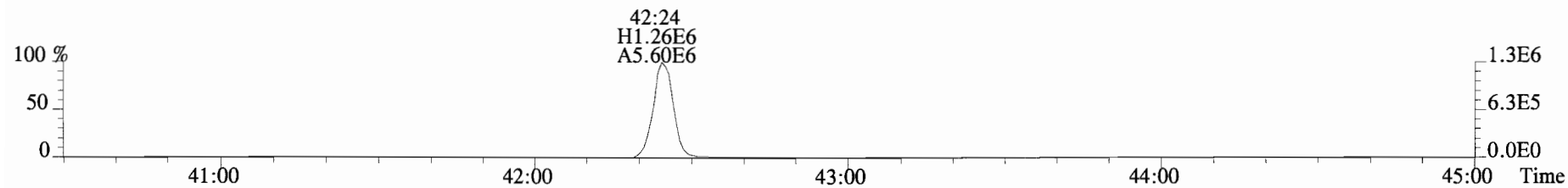
File:140922D1 #1-385 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



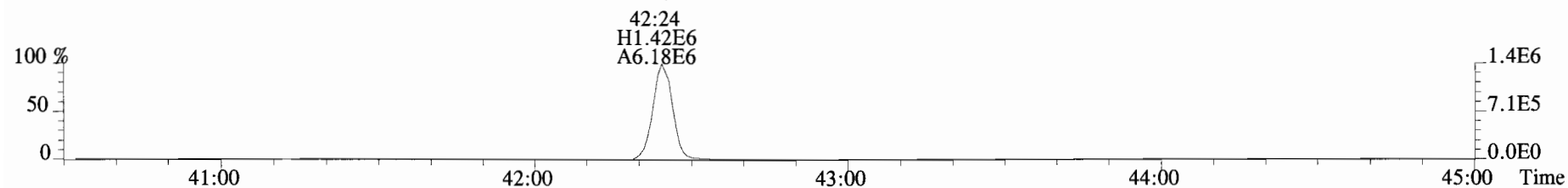
File:140922D1 #1-326 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



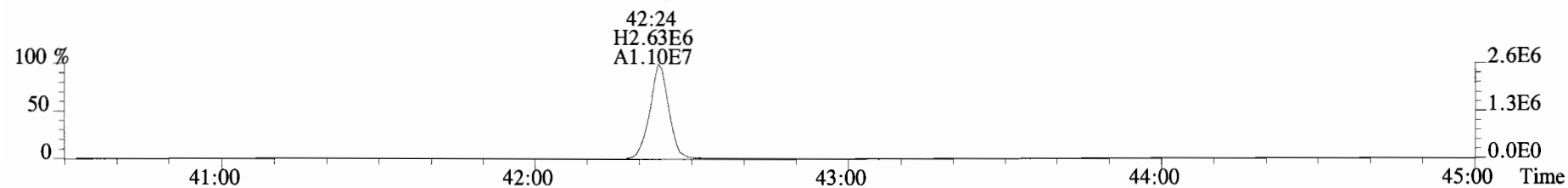
File:140922D1 #1-388 Acq:22-SEP-2014 13:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140922D1-1 1613 CS3 14F1201 Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



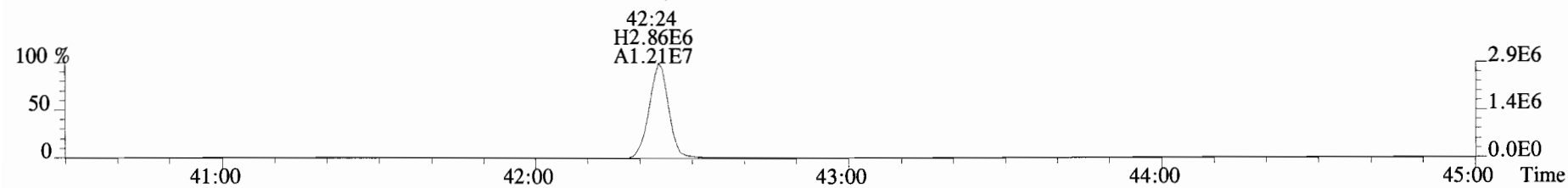
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



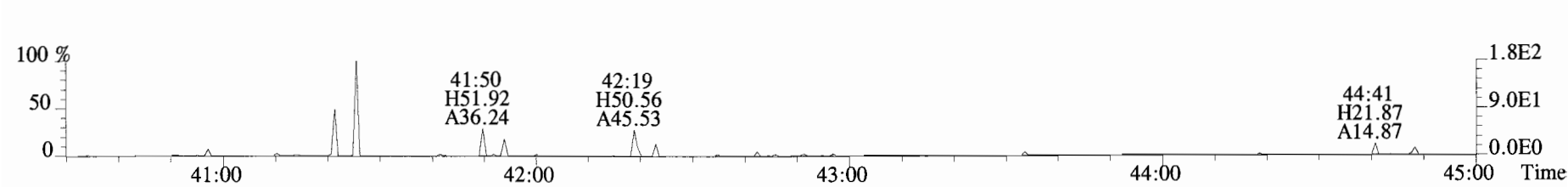
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

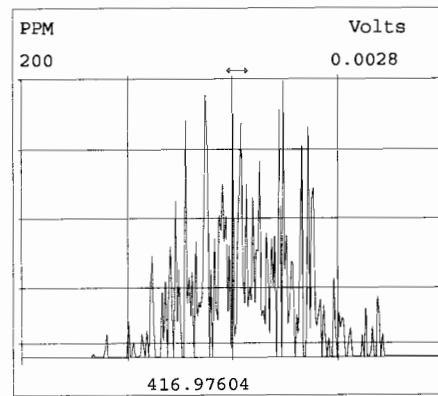
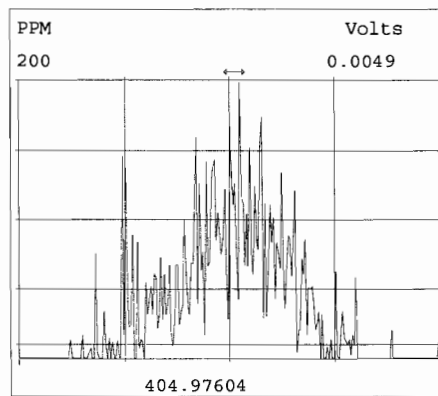
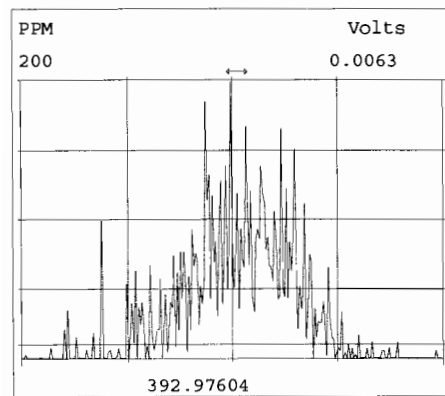
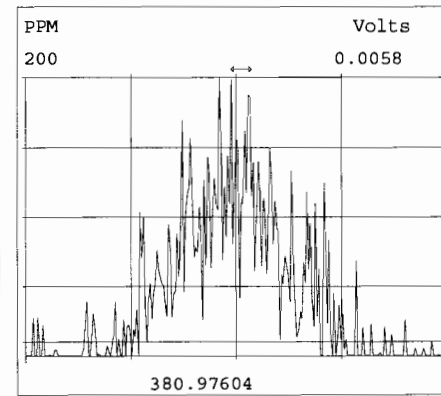
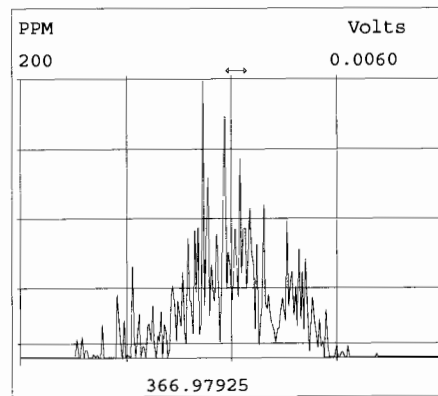
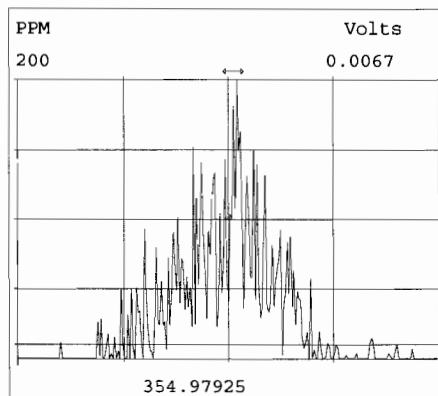
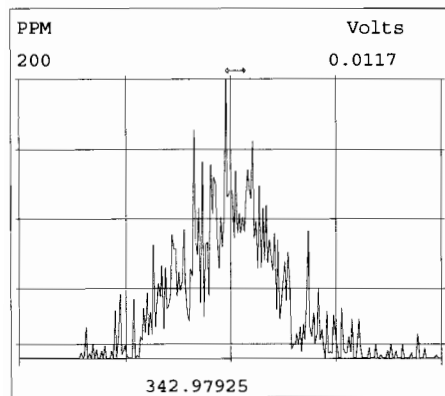
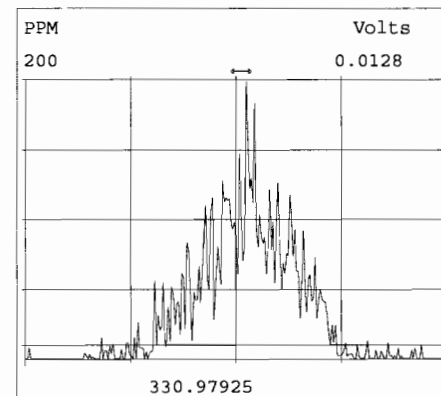
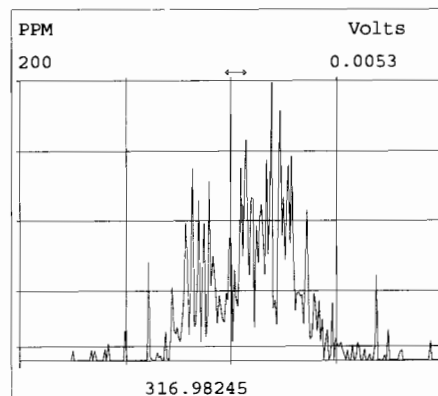
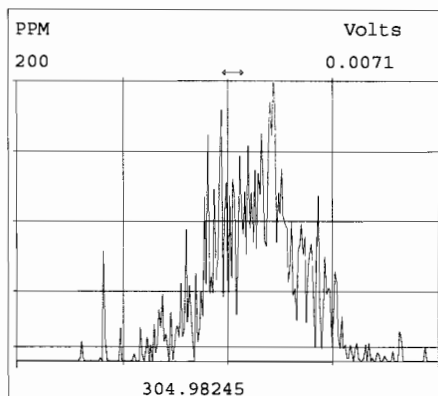
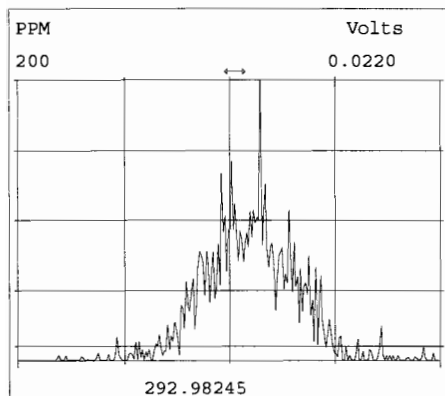


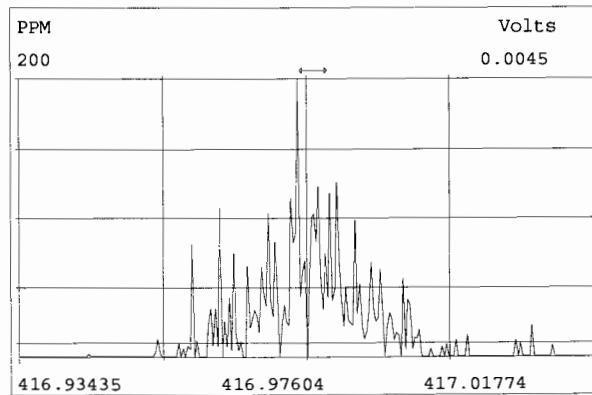
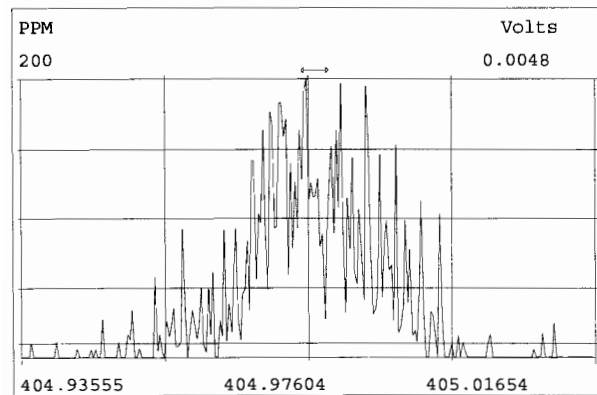
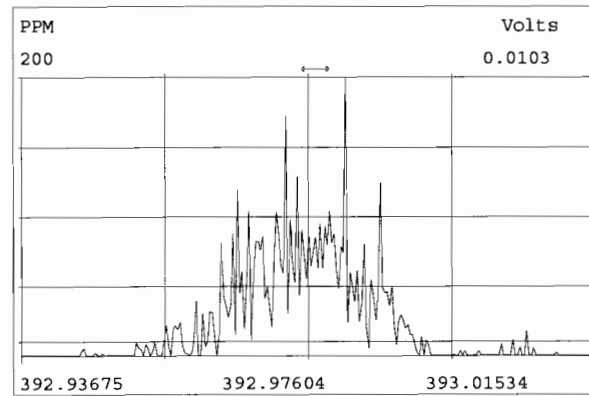
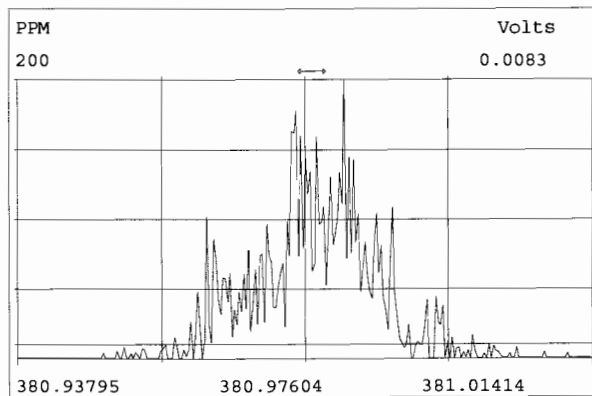
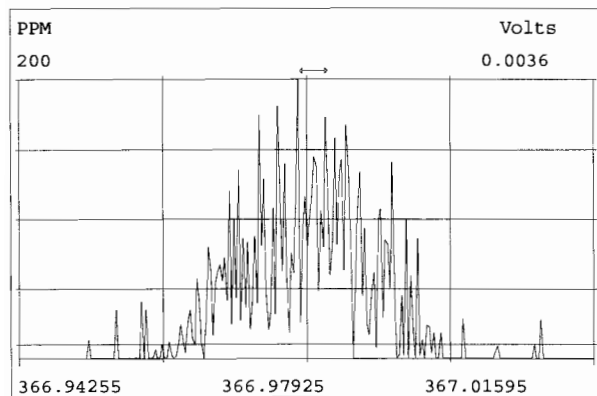
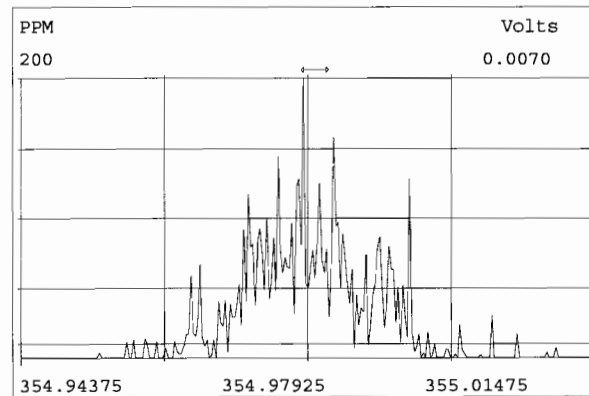
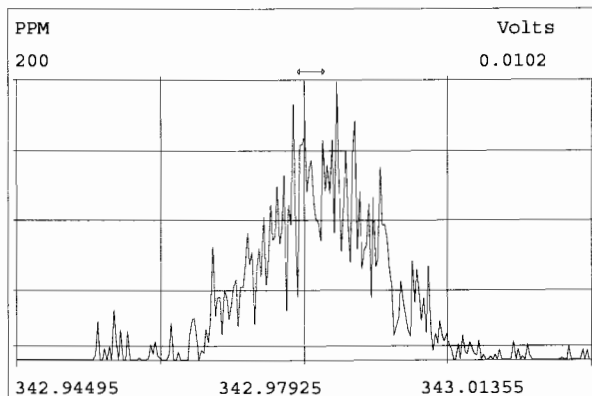
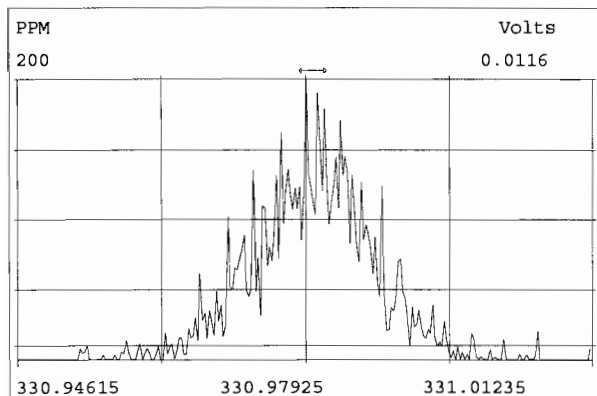
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513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



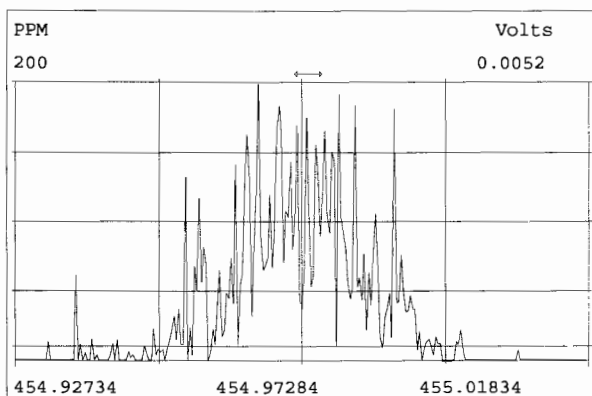
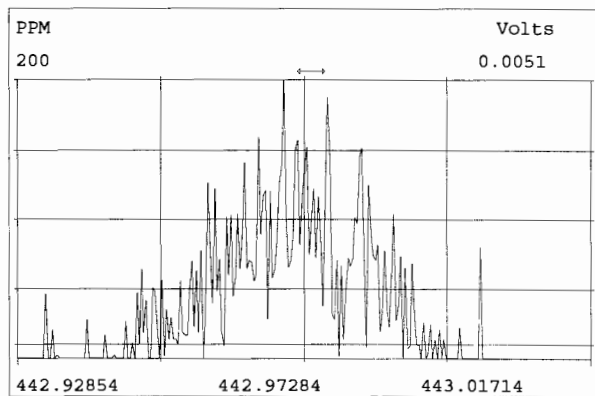
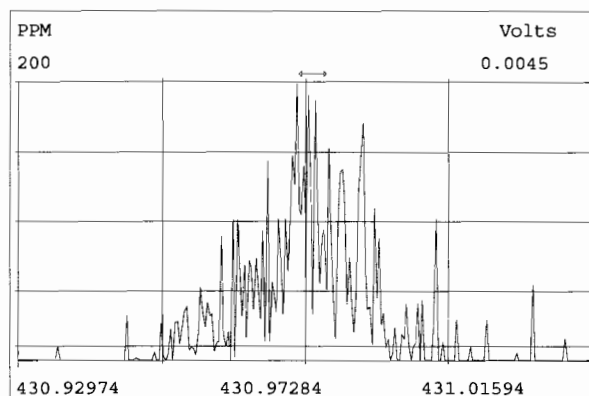
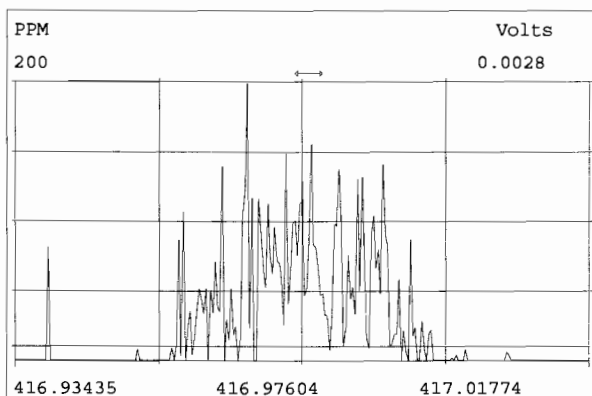
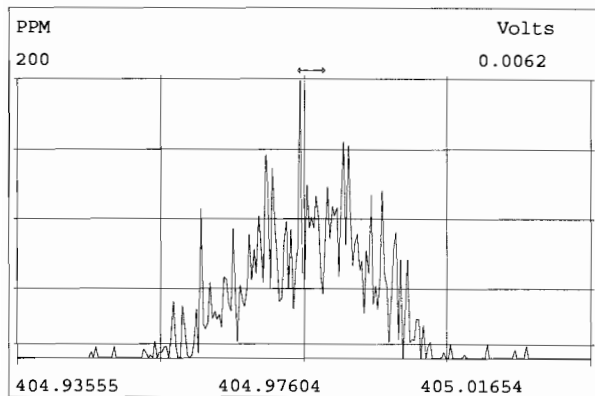
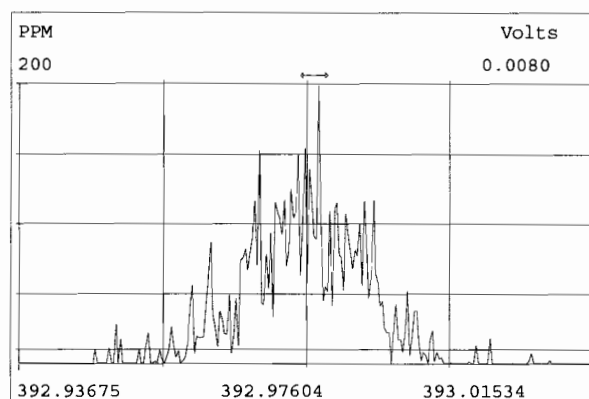
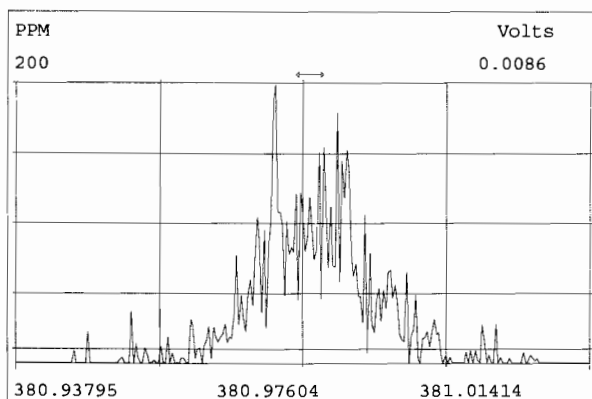
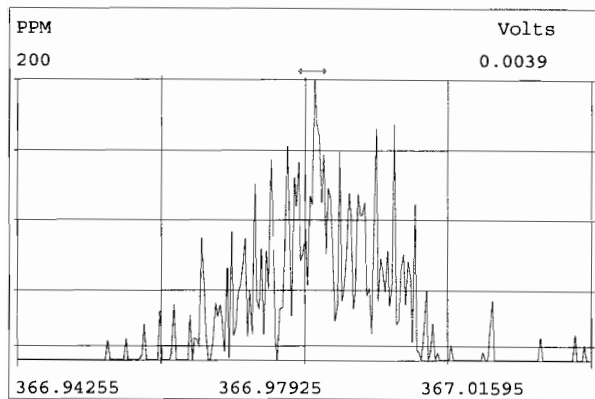






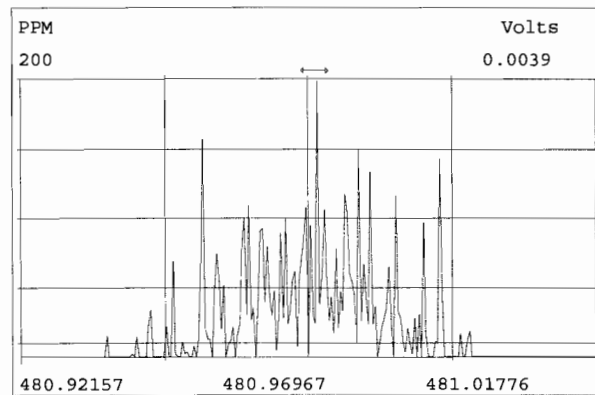
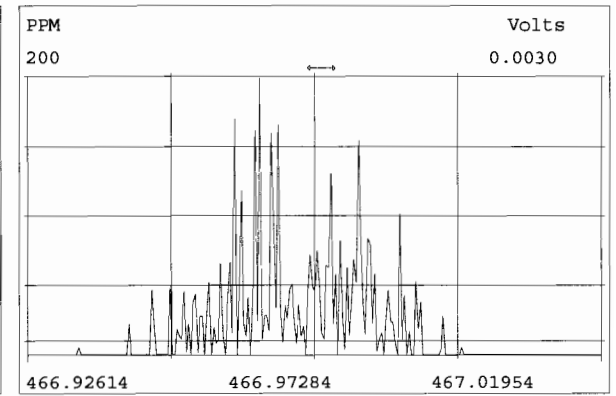
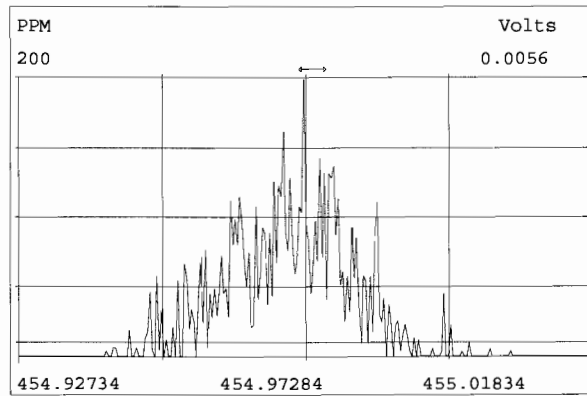
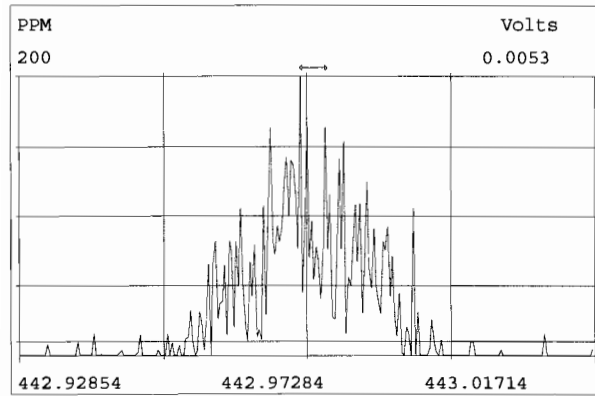
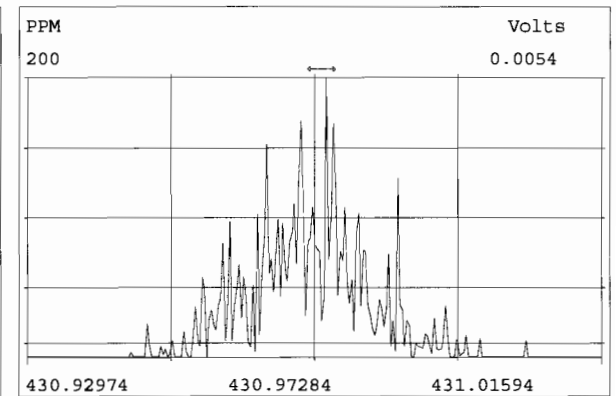
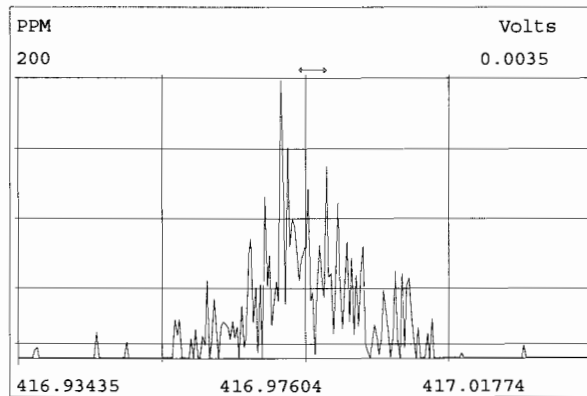
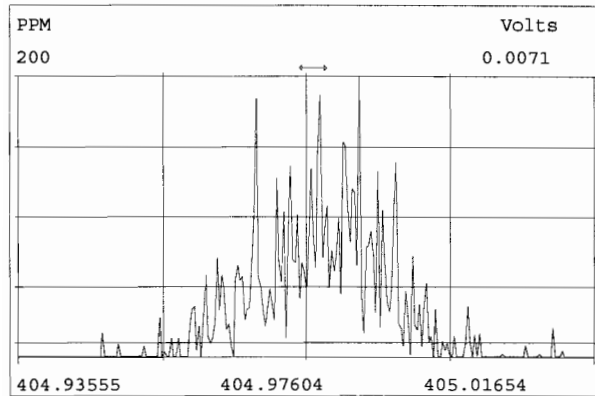
Peak Locate Examination:23-SEP-2014:01:01 File:RES\_CHECK

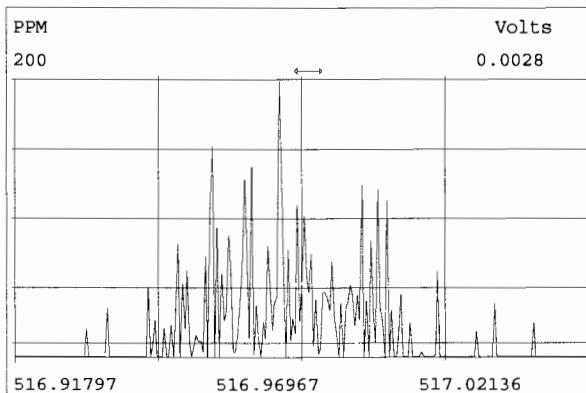
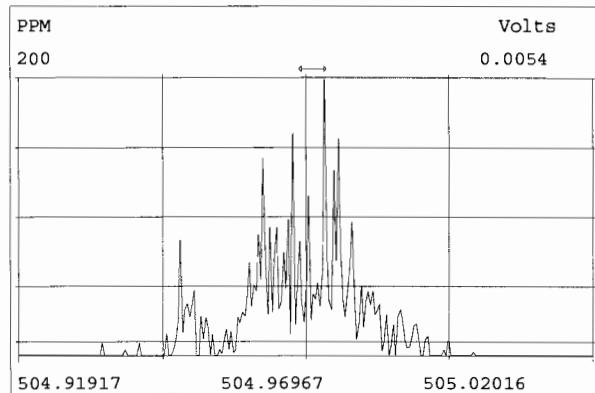
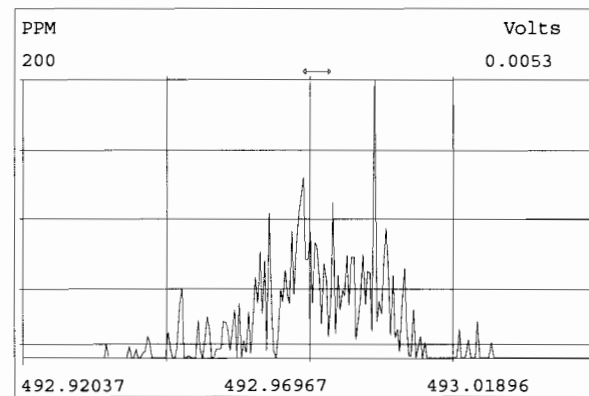
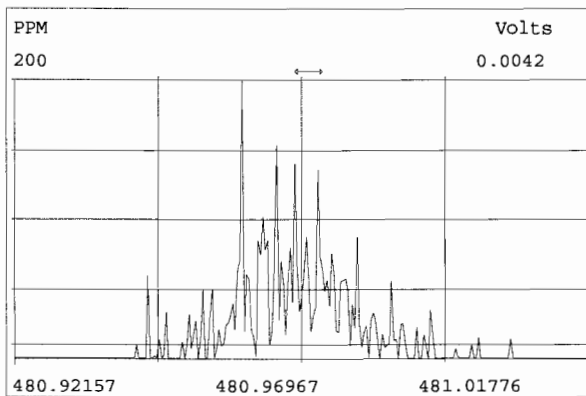
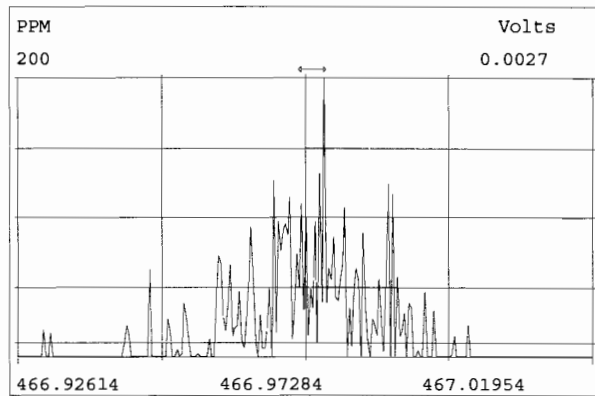
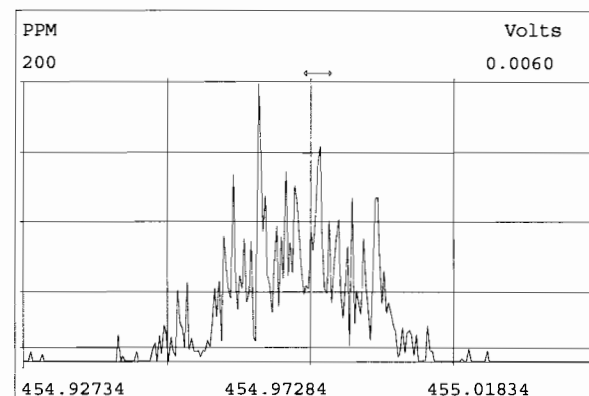
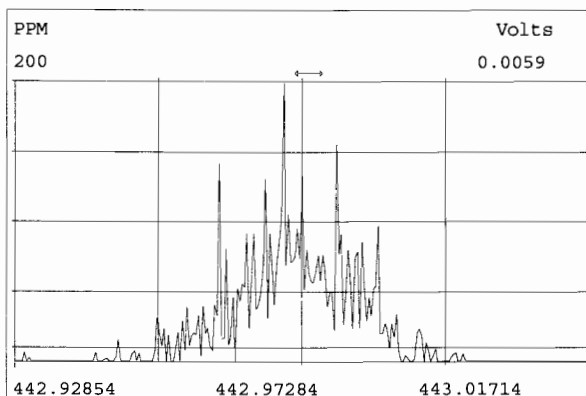
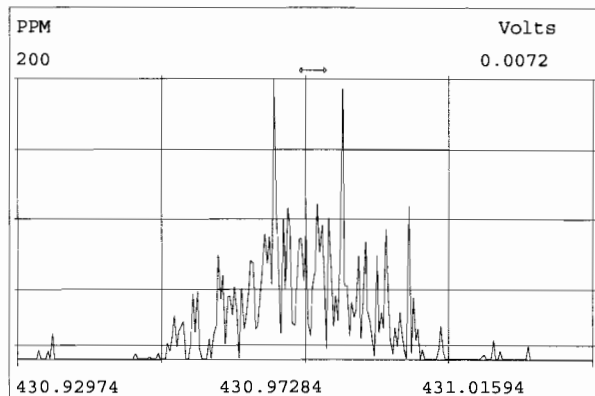
Experiment:OCDD\_DB5 Function:3 Reference:PFK



Peak Locate Examination:23-SEP-2014:01:02 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:4 Reference:PFK





NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140925E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140925E1    S#1    Analysis Date: 25-SEP-14 Time: 08:05:32

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	2.95	2.66-3.60	y	50.0	37.5-62.5	PCB-52/69	0.77	0.65-0.89	y	105.3	75.0-125
PCB-2	2.98	2.66-3.60	y	50.9	37.5-62.5	PCB-73	0.78	0.65-0.89	y	51.6	37.5-62.5
PCB-3	2.98	2.66-3.60	y	49.9	37.5-62.5	PCB-43/49	0.76	0.65-0.89	y	99.2	75.0-125
PCB-4/10	1.56	1.33-1.79	y	183.8	150-250	PCB-47	0.77	0.65-0.89	y	52.3	37.5-62.5
PCB-7/9	1.58	1.33-1.79	y	179.8	150-250	PCB-48/75	0.76	0.65-0.89	y	99.9	75.0-125
PCB-6	1.57	1.33-1.79	y	86.6	75.0-125	PCB-65	0.76	0.65-0.89	y	50.6	37.5-62.5
PCB-5/8	1.58	1.33-1.79	y	179.2	150-250	PCB-62	0.77	0.65-0.89	y	53.9	37.5-62.5
PCB-14	1.57	1.33-1.79	y	88.9	75.0-125	PCB-44	0.76	0.65-0.89	y	51.6	37.5-62.5
PCB-11	1.57	1.33-1.79	y	90.3	75.0-125	PCB-42/59	0.77	0.65-0.89	y	103.0	75.0-125
PCB-12/13	1.58	1.33-1.79	y	180.3	150-250	PCB-41/64/71/72	0.77	0.65-0.89	y	209.3	150-250
PCB-15	1.56	1.33-1.79	y	87.3	75.0-125	PCB-68	0.77	0.65-0.89	y	53.6	37.5-62.5
PCB-19	1.05	0.88-1.20	y	48.9	37.5-62.5	PCB-40	0.77	0.65-0.89	y	51.2	37.5-62.5
PCB-30	1.05	0.88-1.20	y	52.9	37.5-62.5	PCB-57	0.77	0.65-0.89	y	52.4	37.5-62.5
PCB-18	1.05	0.88-1.20	y	50.1	37.5-62.5	PCB-67	0.76	0.65-0.89	y	51.5	37.5-62.5
PCB-17	1.06	0.88-1.20	y	50.1	37.5-62.5	PCB-58	0.77	0.65-0.89	y	50.6	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	105.5	75.0-125	PCB-63	0.77	0.65-0.89	y	52.8	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	51.1	37.5-62.5
PCB-34	1.00	0.88-1.20	y	47.5	37.5-62.5	PCB-61/70	0.77	0.65-0.89	y	103.1	75.0-125
PCB-23	1.02	0.88-1.20	y	41.9	37.5-62.5	PCB-76/66	0.78	0.65-0.89	y	103.0	75.0-125
PCB-29	1.01	0.88-1.20	y	44.5	37.5-62.5	PCB-80	0.76	0.65-0.89	y	50.9	37.5-62.5
PCB-26	1.02	0.88-1.20	y	43.2	37.5-62.5	PCB-55	0.78	0.65-0.89	y	51.5	37.5-62.5
PCB-25	1.02	0.88-1.20	y	44.7	37.5-62.5	PCB-56/60	0.77	0.65-0.89	y	98.5	75.0-125
PCB-31	1.01	0.88-1.20	y	41.4	37.5-62.5	PCB-79	0.78	0.65-0.89	y	50.8	37.5-62.5
PCB-28	1.03	0.88-1.20	y	43.5	37.5-62.5	PCB-78	0.77	0.65-0.89	y	53.5	37.5-62.5
PCB-20/21/33	1.02	0.88-1.20	y	122.7	112.5-225	PCB-81	0.77	0.65-0.89	y	52.0	37.5-62.5
PCB-22	1.03	0.88-1.20	y	43.9	37.5-62.5	PCB-77	0.78	0.65-0.89	y	51.0	37.5-62.5
PCB-36	1.01	0.88-1.20	y	46.0	37.5-62.5	PCB-104	1.57	1.32-1.78	y	50.8	37.5-62.5
PCB-39	1.01	0.88-1.20	y	41.5	37.5-62.5	PCB-96	1.61	1.32-1.78	y	51.9	37.5-62.5
PCB-38	1.03	0.88-1.20	y	43.6	37.5-62.5	PCB-103	1.58	1.32-1.78	y	52.2	37.5-62.5
PCB-35	1.03	0.88-1.20	y	42.6	37.5-62.5	PCB-100	1.57	1.32-1.78	y	51.6	37.5-62.5
PCB-37	1.02	0.88-1.20	y	41.9	37.5-62.5	PCB-94	1.60	1.32-1.78	y	52.2	37.5-62.5
PCB-54	0.77	0.65-0.89	y	51.2	37.5-62.5	PCB-95/98/102	1.58	1.32-1.78	y	154.7	112.5-225
PCB-50	0.76	0.65-0.89	y	49.9	37.5-62.5	PCB-93	1.62	1.32-1.78	y	48.2	37.5-62.5
PCB-53	0.77	0.65-0.89	y	49.6	37.5-62.5	PCB-88/91	1.59	1.32-1.78	y	119.2	75.0-125
PCB-51	0.77	0.65-0.89	y	52.2	37.5-62.5	PCB-121	1.59	1.32-1.78	y	42.1	37.5-62.5
PCB-45	0.78	0.65-0.89	y	52.4	37.5-62.5						
PCB-46	0.75	0.65-0.89	y	48.7	37.5-62.5						

Analyst: *DMS*

Date: *9/25/14*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140925E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140925E1 S#1 Analysis Date: 25-SEP-14 Time: 08:05:32

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	102.0	75.0-125	PCB-140	1.29	1.05-1.43	y	52.2	37.5-62.5
PCB-89	1.57	1.32-1.78	y	50.9	37.5-62.5	PCB-134/143	1.23	1.05-1.43	y	100.4	75.0-125
PCB-90/101	1.57	1.32-1.78	y	102.3	75.0-125	PCB-133/142	1.23	1.05-1.43	y	97.7	75.0-125
PCB-113	1.56	1.32-1.78	y	57.0	37.5-62.5	PCB-131	1.23	1.05-1.43	y	48.5	37.5-62.5
PCB-99	1.63	1.32-1.78	y	45.0	37.5-62.5	PCB-146/165	1.23	1.05-1.43	y	100.2	75.0-125
PCB-119	1.57	1.32-1.78	y	51.2	37.5-62.5	PCB-132/161	1.24	1.05-1.43	y	99.8	75.0-125
PCB-108/112	1.57	1.32-1.78	y	104.0	75.0-125	PCB-153	1.24	1.05-1.43	y	51.9	37.5-62.5
PCB-83	1.58	1.32-1.78	y	53.3	37.5-62.5	PCB-168	1.23	1.05-1.43	y	49.8	37.5-62.5
PCB-97	1.66	1.32-1.78	y	51.9	37.5-62.5	PCB-141	1.23	1.05-1.43	y	52.1	37.5-62.5
PCB-86	1.49	1.32-1.78	y	47.8	37.5-62.5	PCB-137	1.20	1.05-1.43	y	53.0	37.5-62.5
PCB-87/117/125	1.58	1.32-1.78	y	152.4	112.5-225	PCB-130	1.27	1.05-1.43	y	52.7	37.5-62.5
PCB-111/115	1.58	1.32-1.78	y	103.2	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	156.4	112.5-225
PCB-85/116	1.61	1.32-1.78	y	99.7	75.0-125	PCB-158/160	1.23	1.05-1.43	y	106.4	75.0-125
PCB-120	1.58	1.32-1.78	y	50.2	37.5-62.5	PCB-129	1.22	1.05-1.43	y	49.5	37.5-62.5
PCB-110	1.60	1.32-1.78	y	51.7	37.5-62.5	PCB-166	1.25	1.05-1.43	y	52.6	37.5-62.5
PCB-82	1.56	1.32-1.78	y	52.0	37.5-62.5	PCB-159	1.24	1.05-1.43	y	52.9	37.5-62.5
PCB-124	1.57	1.32-1.78	y	50.8	37.5-62.5	PCB-128/162	1.25	1.05-1.43	y	101.9	75.0-125
PCB-107/109	1.58	1.32-1.78	y	106.2	75.0-125	PCB-167	1.24	1.05-1.43	y	52.7	37.5-62.5
PCB-123	1.57	1.32-1.78	y	49.8	37.5-62.5	PCB-156	1.24	1.05-1.43	y	51.8	37.5-62.5
PCB-106/118	1.60	1.32-1.78	y	103.7	75.0-125	PCB-157	1.24	1.05-1.43	y	52.1	37.5-62.5
PCB-114	1.58	1.32-1.78	y	45.8	37.5-62.5	PCB-169	1.25	1.05-1.43	y	52.6	37.5-62.5
PCB-122	1.59	1.32-1.78	y	47.1	37.5-62.5	PCB-188	1.07	0.89-1.21	y	54.4	37.5-62.5
PCB-105	1.57	1.32-1.78	y	48.3	37.5-62.5	PCB-184	1.05	0.89-1.21	y	56.6	37.5-62.5
PCB-127	1.56	1.32-1.78	y	46.8	37.5-62.5	PCB-179	1.07	0.89-1.21	y	56.3	37.5-62.5
PCB-126	1.57	1.32-1.78	y	46.7	37.5-62.5	PCB-176	1.05	0.89-1.21	y	56.2	37.5-62.5
PCB-155	1.27	1.05-1.43	y	56.2	37.5-62.5	PCB-186	1.06	0.89-1.21	y	57.9	37.5-62.5
PCB-150	1.26	1.05-1.43	y	54.7	37.5-62.5	PCB-178	1.05	0.89-1.21	y	57.1	37.5-62.5
PCB-152	1.27	1.05-1.43	y	53.9	37.5-62.5	PCB-175	1.06	0.89-1.21	y	57.4	37.5-62.5
PCB-145	1.28	1.05-1.43	y	53.1	37.5-62.5	PCB-182/187	1.06	0.89-1.21	y	117.2	75.0-125
PCB-136	1.29	1.05-1.43	y	54.1	37.5-62.5	PCB-183	1.07	0.89-1.21	y	54.8	37.5-62.5
PCB-148	1.28	1.05-1.43	y	55.2	37.5-62.5	PCB-185	1.05	0.89-1.21	y	54.4	37.5-62.5
PCB-154	1.28	1.05-1.43	y	54.8	37.5-62.5	PCB-174	1.05	0.89-1.21	y	57.1	37.5-62.5
PCB-151	1.29	1.05-1.43	y	52.6	37.5-62.5	PCB-181	1.05	0.89-1.21	y	53.5	37.5-62.5
PCB-135	1.27	1.05-1.43	y	50.2	37.5-62.5	PCB-177	1.06	0.89-1.21	y	54.0	37.5-62.5
PCB-144	1.28	1.05-1.43	y	56.7	37.5-62.5	PCB-171	1.04	0.89-1.21	y	53.3	37.5-62.5
PCB-147	1.30	1.05-1.43	y	50.6	37.5-62.5	PCB-173	1.08	0.89-1.21	y	53.6	37.5-62.5
PCB-139/149	1.28	1.05-1.43	y	107.3	75.0-125	PCB-172	1.06	0.89-1.21	y	56.0	37.5-62.5

Analyst: DMIS

Date: 9/25/14

## NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Page 3 of

Lab Name: Vista Analytical Laboratory      Lab ID: ST140925E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140925E1    S#1    Analysis Date: 25-SEP-14 Time: 08:05:32

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.05	0.89-1.21	y	55.6	37.5-62.5
PCB-180	1.05	0.89-1.21	y	53.3	37.5-62.5
PCB-193	1.06	0.89-1.21	y	56.2	37.5-62.5
PCB-191	1.06	0.89-1.21	y	54.5	37.5-62.5
PCB-170	1.06	0.89-1.21	y	53.4	37.5-62.5
PCB-190	1.04	0.89-1.21	y	54.0	37.5-62.5
PCB-189	1.05	0.89-1.21	y	55.6	37.5-62.5
PCB-202	0.91	0.76-1.02	y	52.3	37.5-62.5
PCB-201	0.89	0.76-1.02	y	52.5	37.5-62.5
PCB-204	0.91	0.76-1.02	y	53.2	37.5-62.5
PCB-197	0.90	0.76-1.02	y	53.0	37.5-62.5
PCB-200	0.90	0.76-1.02	y	54.2	37.5-62.5
PCB-198	0.89	0.76-1.02	y	50.2	37.5-62.5
PCB-199	0.92	0.76-1.02	y	53.2	37.5-62.5
PCB-196/203	0.91	0.76-1.02	y	104.4	75.0-125
PCB-195	0.87	0.76-1.02	y	49.1	37.5-62.5
PCB-194	0.91	0.76-1.02	y	46.4	37.5-62.5
PCB-205	0.91	0.76-1.02	y	48.1	37.5-62.5
PCB-208	1.29	1.14-1.54	y	45.8	37.5-62.5
PCB-207	1.31	1.14-1.54	y	46.7	37.5-62.5
PCB-206	1.29	1.14-1.54	y	44.6	37.5-62.5
PCB-209	1.19	0.99-1.33	y	51.4	37.5-62.5

Analyst: DMSDate: 9/25/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST140925E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-20-14      ICal ID: PCBVG8-6-20-14      GC Column ID: ZB-1

VER Data Filename: 140925E1    S#1    Analysis Date: 25-SEP-14 Time: 08:05:32

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	3.49	2.66-3.60	y	131.5	50.0-145	13C-PCB-169	1.27	1.05-1.43	y	91.3	50 - 145
13C-PCB-3	3.52	2.66-3.60	y	126.9	50.0-145	13C-PCB-188	0.47	0.38-0.52	y	93.7	50 - 145
13C-PCB-4	1.60	1.33-1.79	y	97.0	50.0-145	13C-PCB-180	0.47	0.38-0.52	y	94.8	50 - 145
13C-PCB-9	1.58	1.33-1.79	y	101.2	50.0-145	13C-PCB-170	0.47	0.38-0.52	y	95.4	50 - 145
13C-PCB-11	1.55	1.33-1.79	y	100.1	50.0-145	13C-PCB-189	0.47	0.38-0.52	y	90.9	50 - 145
13C-PCB-19	1.08	0.88-1.20	y	102.6	50.0-145	13C-PCB-202	0.92	0.76-1.02	y	89.5	50 - 145
13C-PCB-32	1.09	0.88-1.20	y	103.9	50.0-145	13C-PCB-194	0.90	0.76-1.02	y	96.6	50 - 145
13C-PCB-28	1.03	0.88-1.20	y	96.2	50.0-145	13C-PCB-208	0.77	0.65-0.89	y	129.2	50 - 145
13C-PCB-37	1.04	0.88-1.20	y	96.3	50.0-145	13C-PCB-206	0.78	0.65-0.89	y	130.2	50 - 145
13C-PCB-54	0.78	0.65-0.89	y	100.6	50.0-145	13C-PCB-209	1.21	0.99-1.33	y	137.7	50 - 145
13C-PCB-52	0.78	0.65-0.89	y	97.2	50.0-145						
13C-PCB-47	0.78	0.65-0.89	y	96.0	50.0-145						
13C-PCB-70	0.79	0.65-0.89	y	99.5	50.0-145						
13C-PCB-80	0.78	0.65-0.89	y	100.1	50.0-145						
13C-PCB-81	0.79	0.65-0.89	y	94.4	50.0-145						
13C-PCB-77	0.79	0.65-0.89	y	94.1	50.0-145						
13C-PCB-104	1.62	1.32-1.78	y	98.7	50.0-145						
13C-PCB-95	1.62	1.32-1.78	y	99.1	50.0-145						
13C-PCB-101	1.64	1.32-1.78	y	99.7	50.0-145						
13C-PCB-97	1.62	1.32-1.78	y	100.1	50.0-145	CRS vs. RS					
13C-PCB-123	1.60	1.32-1.78	y	95.1	50.0-145	13C-PCB-79	0.78	0.65-0.89	y	108.5	75 - 125
13C-PCB-118	1.63	1.32-1.78	y	97.6	50.0-145	13C-PCB-178	0.46	0.38-0.52	y	108.3	75 - 125
13C-PCB-114	1.56	1.32-1.78	y	89.0	50.0-145						
13C-PCB-105	1.56	1.32-1.78	y	88.5	50.0-145						
13C-PCB-127	1.57	1.32-1.78	y	88.9	50.0-145						
13C-PCB-126	1.54	1.32-1.78	y	87.5	50.0-145						
13C-PCB-155	1.28	1.05-1.43	y	79.3	50.0-145						
13C-PCB-153	1.29	1.05-1.43	y	103.0	50.0-145						
13C-PCB-141	1.29	1.05-1.43	y	100.3	50.0-145						
13C-PCB-138	1.27	1.05-1.43	y	102.7	50.0-145						
13C-PCB-159	1.29	1.05-1.43	y	102.4	50.0-145						
13C-PCB-167	1.28	1.05-1.43	y	100.4	50.0-145						
13C-PCB-156	1.30	1.05-1.43	y	97.4	50.0-145						
13C-PCB-157	1.30	1.05-1.43	y	97.9	50.0-145						

Analyst: DMS

Date: 9/25/14

Client ID: PCB CS3 14F1901  
Lab ID: ST140925E1-1

Filename: 140925E1 S:1 Acq:25-SEP-14 08:05:32  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140925E1-2

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	2.06e+08	2.95	y	1.25	16:13	1.001	0.996-1.006	49.9810	PCB-52/69	1.97e+08	0.77	y	1.28	31:38	1.001	0.996-1.006	105.254
PCB-2	1.98e+08	2.98	y	1.18	18:36	0.988	0.983-0.993	50.8949	PCB-73	1.04e+08	0.78	y	1.37	31:45	1.005	1.000-1.010	51.6360
PCB-3	2.00e+08	2.98	y	1.22	18:50	1.001	0.996-1.006	49.8793	PCB-43/49	1.62e+08	0.76	y	1.11	31:55	1.010	1.005-1.015	99.2217
PCB-4/10	4.25e+08	1.56	y	1.55	20:12	1.002	0.998-1.008	183.837	PCB-47	9.01e+07	0.77	y	1.13	32:07	1.000	0.996-1.006	52.3181
PCB-7/9	5.34e+08	1.58	y	1.27	21:59	0.868	0.865-0.873	179.823	PCB-48/75	1.98e+08	0.76	y	1.30	32:14	1.004	0.999-1.009	99.8595
PCB-6	2.55e+08	1.57	y	1.26	22:38	0.894	0.890-0.899	86.5846	PCB-65	1.03e+08	0.76	y	1.33	32:30	1.012	1.007-1.017	50.6237
PCB-5/8	5.17e+08	1.58	y	1.23	23:03	0.910	0.906-0.916	179.181	PCB-62	1.06e+08	0.77	y	1.29	32:37	1.016	1.011-1.021	53.9452
PCB-14	2.88e+08	1.57	y	1.23	24:09	0.954	0.949-0.959	88.8737	PCB-44	7.38e+07	0.76	y	0.94	32:55	1.025	1.020-1.030	51.5755
PCB-11	2.75e+08	1.57	y	1.16	25:20	1.000	0.996-1.006	90.2604	PCB-42/59	1.91e+08	0.77	y	1.22	33:09	1.033	1.028-1.038	103.001
PCB-12/13	5.21e+08	1.58	y	1.10	25:44	1.016	1.010-1.020	180.276	PCB-41/64/71/72	4.18e+08	0.77	y	1.31	33:44	1.051	1.046-1.056	209.328
PCB-15	2.77e+08	1.56	y	1.21	26:03	1.029	1.024-1.034	87.2873	PCB-68	1.21e+08	0.77	y	1.49	33:59	1.059	1.054-1.064	53.6312
PCB-19	9.69e+07	1.05	y	1.30	24:20	1.001	0.996-1.006	48.8756	PCB-40	6.38e+07	0.77	y	0.82	34:12	1.065	1.061-1.071	51.2131
PCB-30	1.48e+08	1.05	y	1.83	25:13	1.038	1.032-1.042	52.9458	PCB-57	1.17e+08	0.77	y	1.11	34:34	0.970	0.965-0.975	52.3887
PCB-18	1.02e+08	1.05	y	0.86	25:58	0.954	0.949-0.959	50.0602	PCB-67	1.11e+08	0.76	y	1.07	34:52	0.979	0.974-0.984	51.4850
PCB-17	1.07e+08	1.06	y	0.90	26:09	0.960	0.955-0.965	50.0738	PCB-58	1.12e+08	0.77	y	1.10	34:59	0.982	0.977-0.987	50.6294
PCB-24/27	2.94e+08	1.06	y	1.18	26:43	0.981	0.976-0.986	105.529	PCB-63	1.18e+08	0.77	y	1.12	35:08	0.986	0.982-0.992	52.7766
PCB-16/32	2.45e+08	1.05	y	1.03	27:14	1.000	0.995-1.005	100.450	PCB-74	1.23e+08	0.77	y	1.20	35:25	0.994	0.990-1.000	51.1090
PCB-34	1.08e+08	1.00	y	1.26	28:02	0.961	0.956-0.966	47.5139	PCB-61/70	2.23e+08	0.77	y	1.08	35:35	0.999	0.994-1.004	103.074
PCB-23	9.94e+07	1.02	y	1.31	28:07	0.963	0.959-0.969	41.9004	PCB-76/66	2.35e+08	0.78	y	1.14	35:49	1.006	1.001-1.011	103.012
PCB-29	1.07e+08	1.01	y	1.33	28:22	0.972	0.967-0.977	44.4958	PCB-80	1.33e+08	0.76	y	1.28	36:02	1.000	0.996-1.006	50.8687
PCB-26	1.01e+08	1.02	y	1.29	28:35	0.979	0.974-0.984	43.1639	PCB-55	1.17e+08	0.78	y	1.11	36:22	1.009	1.005-1.015	51.5090
PCB-25	1.09e+08	1.02	y	1.34	28:44	0.985	0.980-0.990	44.7444	PCB-56/60	2.20e+08	0.77	y	1.09	36:52	1.023	1.018-1.028	98.5348
PCB-31	1.06e+08	1.01	y	1.42	29:05	0.997	0.992-1.002	41.3781	PCB-79	1.17e+08	0.78	y	1.12	37:56	1.053	1.048-1.058	50.7651
PCB-28	1.09e+08	1.03	y	1.38	29:12	1.001	0.996-1.006	43.5135	PCB-78	1.12e+08	0.77	y	1.24	38:37	0.986	0.982-0.992	53.5060
PCB-20/21/33	2.91e+08	1.02	y	1.31	29:49	1.022	1.017-1.027	122.672	PCB-81	1.21e+08	0.77	y	1.38	39:09	1.000	0.995-1.005	51.9845
PCB-22	1.05e+08	1.03	y	1.32	30:16	1.037	1.032-1.042	43.9304	PCB-77	1.10e+08	0.78	y	1.21	39:45	1.000	0.995-1.005	51.0096
PCB-36	1.07e+08	1.01	y	1.38	30:52	0.934	0.929-0.939	45.9987	PCB-104	7.69e+07	1.57	y	1.26	32:46	1.000	0.996-1.006	50.8381
PCB-39	9.99e+07	1.01	y	1.42	31:21	0.949	0.943-0.953	41.5093	PCB-96	6.81e+07	1.61	y	1.09	34:02	1.039	1.034-1.044	51.8942
PCB-38	1.00e+08	1.03	y	1.35	32:07	0.972	0.967-0.976	43.6008	PCB-103	5.85e+07	1.58	y	0.93	34:34	1.055	1.050-1.060	52.1710
PCB-35	9.93e+07	1.03	y	1.38	32:38	0.987	0.982-0.992	42.5563	PCB-100	6.21e+07	1.57	y	1.00	34:55	1.066	1.061-1.071	51.5539
PCB-37	9.89e+07	1.02	y	1.39	33:04	1.001	0.996-1.006	41.9451	PCB-94	5.22e+07	1.60	y	1.11	35:24	0.986	0.981-0.991	52.2195
PCB-54	1.12e+08	0.77	y	1.20	28:05	1.001	0.996-1.006	51.1968	PCB-95/98/102	1.69e+08	1.58	y	1.21	35:53	0.999	0.994-1.004	154.672
PCB-50	8.79e+07	0.76	y	0.97	29:15	1.042	1.037-1.047	49.8798	PCB-93	4.91e+07	1.62	y	1.13	36:01	1.003	0.998-1.008	48.1666
PCB-53	8.64e+07	0.77	y	1.19	29:53	0.946	0.941-0.951	49.6058	PCB-88/91	1.10e+08	1.59	y	1.02	36:18	1.011	1.006-1.016	119.208
PCB-51	8.83e+07	0.77	y	1.15	30:14	0.957	0.952-0.962	52.2258	PCB-121	7.23e+07	1.59	y	1.90	36:25	1.014	1.009-1.019	42.1215
PCB-45	7.42e+07	0.78	y	0.97	30:40	0.971	0.966-0.976	52.4131	PCB-84/92	1.03e+08	1.59	y	1.05	37:14	0.990	0.986-0.996	101.965
PCB-46	6.79e+07	0.75	y	0.95	31:09	0.986	0.982-0.992	48.6898	PCB-89	4.97e+07	1.57	y	1.02	37:25	0.995	0.991-1.001	50.9433

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by

Analyst: *Dms*

Date: *9/25/14*

Reviewed

by

Analyst: \_\_\_\_\_

Date: \_\_\_\_\_



Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	1.17e+08	1.57	y	1.19	37:36	1.000	0.996-1.006	102.333	PCB-133/142	1.16e+08	1.23	y	0.95	42:33	0.982	0.977-0.987	97.6584
PCB-113	7.38e+07	1.56	y	1.35	37:52	1.007	1.002-1.012	56.9598	PCB-131	5.56e+07	1.23	y	0.91	42:42	0.986	0.981-0.991	48.5324
PCB-99	5.56e+07	1.63	y	1.29	37:57	1.009	1.005-1.015	45.0269	PCB-146/165	1.45e+08	1.23	y	1.16	42:56	0.991	0.986-0.996	100.161
PCB-119	7.43e+07	1.57	y	1.72	38:25	0.988	0.982-0.992	51.1503	PCB-132/161	1.39e+08	1.24	y	1.11	43:10	0.997	0.992-1.002	99.8302
PCB-108/112	1.13e+08	1.57	y	1.29	38:34	0.991	0.986-0.996	104.010	PCB-153	7.68e+07	1.24	y	1.18	43:20	1.000	0.995-1.005	51.9432
PCB-83	6.84e+07	1.58	y	1.52	38:44	0.996	0.991-1.001	53.3166	PCB-168	8.56e+07	1.23	y	1.37	43:33	1.005	1.000-1.010	49.8394
PCB-97	5.47e+07	1.66	y	1.25	38:55	1.000	0.996-1.006	51.8799	PCB-141	5.97e+07	1.23	y	0.97	44:04	1.000	0.996-1.005	52.0804
PCB-86	4.13e+07	1.49	y	1.02	39:04	1.004	1.000-1.010	47.8293	PCB-137	6.68e+07	1.20	y	1.07	44:27	1.009	1.004-1.014	53.0260
B-87/117/125	2.00e+08	1.58	y	1.56	39:11	1.007	1.002-1.012	152.353	PCB-130	5.25e+07	1.27	y	0.85	44:34	1.011	1.007-1.017	52.7229
PCB-111/115	1.53e+08	1.58	y	1.75	39:21	1.012	1.007-1.017	103.186	PCB-138/163/164	2.25e+08	1.24	y	1.23	44:56	1.001	0.996-1.006	156.364
PCB-85/116	1.10e+08	1.61	y	1.30	39:29	1.015	1.010-1.020	99.7142	PCB-158/160	1.61e+08	1.23	y	1.29	45:11	1.006	1.001-1.011	106.357
PCB-120	7.55e+07	1.58	y	1.78	39:43	1.021	1.016-1.026	50.1895	PCB-129	5.36e+07	1.22	y	0.92	45:25	1.011	1.007-1.017	49.4613
PCB-110	7.33e+07	1.60	y	1.68	39:51	1.024	1.020-1.030	51.6584	PCB-166	7.89e+07	1.25	y	1.12	45:53	0.993	0.988-0.998	52.5807
PCB-82	4.24e+07	1.56	y	0.74	40:30	0.977	0.972-0.982	52.0237	PCB-159	8.28e+07	1.24	y	1.16	46:12	1.000	0.995-1.005	52.8741
PCB-124	7.42e+07	1.57	y	1.32	41:09	0.992	0.988-0.998	50.8077	PCB-128/162	1.40e+08	1.25	y	1.02	46:30	1.007	1.002-1.012	101.926
PCB-107/109	1.43e+08	1.58	y	1.22	41:18	0.996	0.991-1.001	106.204	PCB-167	8.12e+07	1.24	y	1.06	46:53	1.000	0.995-1.005	52.6899
PCB-123	6.70e+07	1.57	y	1.22	41:29	1.000	0.995-1.005	49.8308	PCB-156	8.12e+07	1.24	y	1.18	48:12	1.001	0.995-1.005	51.7631
- PCB-106/118	1.49e+08	1.60	y	1.22	41:41	1.001	0.996-1.006	103.685	PCB-157	7.92e+07	1.24	y	1.08	48:27	1.000	0.995-1.005	52.0837
- PCB-114	7.29e+07	1.58	y	1.36	42:19	1.000	0.995-1.005	45.7686	PCB-169	7.07e+07	1.25	y	1.11	50:35	1.000	0.995-1.005	52.5760
PCB-122	6.85e+07	1.59	y	1.24	42:27	1.003	0.999-1.009	47.1199	PCB-188	7.33e+07	1.07	y	1.40	42:59	1.001	0.995-1.005	54.4144
PCB-105	7.43e+07	1.57	y	1.28	43:11	1.001	0.995-1.005	48.3219	PCB-184	6.72e+07	1.05	y	1.24	43:26	1.011	1.006-1.016	56.5738
PCB-127	6.96e+07	1.56	y	1.14	43:31	1.000	0.995-1.005	46.7614	PCB-179	7.05e+07	1.07	y	1.30	44:12	1.029	1.024-1.034	56.3351
PCB-126	6.68e+07	1.57	y	1.28	45:25	1.000	0.995-1.005	46.7365	PCB-176	7.35e+07	1.05	y	1.36	44:40	1.040	1.035-1.045	56.2109
PCB-155	5.15e+07	1.27	y	1.14	37:10	1.001	0.966-1.006	56.1742	PCB-186	7.09e+07	1.06	y	1.28	45:17	1.054	1.049-1.059	57.9311
PCB-150	4.70e+07	1.26	y	1.06	38:26	1.035	1.030-1.040	54.6955	PCB-178	5.13e+07	1.05	y	0.94	45:46	1.066	1.061-1.071	57.1215
PCB-152	4.78e+07	1.27	y	1.10	38:54	1.047	1.043-1.053	53.9228	PCB-175	5.34e+07	1.06	y	0.97	46:07	1.074	1.069-1.079	57.3813
PCB-145	4.69e+07	1.28	y	1.09	39:21	1.060	1.055-1.065	53.1262	PCB-182/187	1.14e+08	1.06	y	1.01	46:17	1.078	1.073-1.083	117.210
PCB-136	4.74e+07	1.29	y	1.08	39:41	1.068	1.064-1.074	54.1385	PCB-183	5.69e+07	1.07	y	1.08	46:37	1.085	1.080-1.090	54.7758
PCB-148	3.30e+07	1.28	y	0.74	39:46	1.071	1.066-1.076	55.2056	PCB-185	5.11e+07	1.05	y	1.34	47:16	0.956	0.951-0.961	54.4374
PCB-154	3.91e+07	1.28	y	0.88	40:16	1.084	1.079-1.089	54.8165	PCB-174	5.34e+07	1.05	y	1.34	47:38	0.963	0.958-0.968	57.0664
PCB-151	3.44e+07	1.29	y	0.81	40:55	1.101	1.097-1.107	52.5983	PCB-181	5.09e+07	1.05	y	1.36	47:45	0.965	0.961-0.971	53.5374
PCB-135	3.16e+07	1.27	y	0.78	41:07	1.107	1.101-1.113	50.1688	PCB-177	4.69e+07	1.06	y	1.24	47:54	0.969	0.964-0.974	54.0367
PCB-144	3.75e+07	1.28	y	0.82	41:14	1.110	1.105-1.116	56.6742	PCB-171	4.89e+07	1.04	y	1.31	48:12	0.974	0.970-0.980	53.2687
PCB-147	3.39e+07	1.30	y	0.83	41:22	1.114	1.011-1.120	50.6215	PCB-173	4.35e+07	1.08	y	1.16	48:38	0.983	0.979-0.989	53.6242
PCB-139/149	7.31e+07	1.28	y	0.84	41:38	1.121	1.115-1.127	107.298	PCB-172	4.78e+07	1.06	y	1.22	49:04	0.992	0.988-0.998	55.9683
- PCB-140	3.31e+07	1.29	y	0.79	41:49	1.126	1.120-1.132	52.1657	PCB-192	5.93e+07	1.05	y	1.53	49:16	0.996	0.991-1.001	55.5773
- PCB-134/143	1.17e+08	1.23	y	0.93	42:15	0.975	0.970-0.980	100.425	PCB-180	5.32e+07	1.05	y	1.43	49:29	1.000	0.995-1.005	53.3010

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMS

Date: 9/25/14

Client ID: PCB CS3 14F1901  
Lab ID: ST140925E1-1

Filename: 140925E1 S:1 Acq:25-SEP-14 08:05:32  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000  
ConCal: ST140925E1-1  
EndCAL: ST140925E1-2

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	6.50e+07	1.06 y	1.65	49:41	1.004	0.999-1.009		56.2298
PCB-191	6.38e+07	1.06 y	1.67	49:56	1.009	1.004-1.014		54.5447
PCB-170	4.48e+07	1.06 y	1.50	50:58	1.000	0.995-1.005		53.3608
PCB-190	6.09e+07	1.04 y	2.02	51:08	1.004	0.998-1.008		54.0378
PCB-189	6.10e+07	1.05 y	1.54	52:27	1.000	0.995-1.005		55.5854
PCB-202	4.44e+07	0.91 y	1.04	48:24	1.000	0.995-1.005		52.3177
PCB-201	4.72e+07	0.89 y	1.10	48:53	1.010	1.006-1.016		52.5079
PCB-204	4.31e+07	0.91 y	0.99	49:02	1.014	1.009-1.019		53.1734
PCB-197	4.63e+07	0.90 y	1.07	49:21	1.020	1.015-1.025		52.9890
PCB-200	4.49e+07	0.90 y	1.02	50:13	1.038	1.032-1.044		54.1695
PCB-198	3.04e+07	0.89 y	0.74	51:33	1.065	1.058-1.068		50.1819
PCB-199	3.16e+07	0.92 y	0.73	51:39	1.068	1.060-1.070		53.2275
- PCB-196/203	6.57e+07	0.91 y	0.77	51:55	1.073	1.066-1.076		104.352
- PCB-195	3.21e+07	0.87 y	1.20	53:04	0.984	0.979-0.989		49.0751
PCB-194	3.15e+07	0.91 y	1.25	53:56	1.000	0.995-1.005		46.3955
PCB-205	3.70e+07	0.91 y	1.41	54:13	1.005	1.001-1.011		48.1048
PCB-208	4.45e+07	1.29 y	0.96	53:13	1.000	0.995-1.005		45.7776
PCB-207	4.32e+07	1.31 y	0.92	53:31	1.006	1.001-1.011		46.6537
PCB-206	2.73e+07	1.29 y	1.03	55:34	1.000	0.995-1.005		44.5594
PCB-209	3.55e+07	1.19 y	1.18	56:55	1.000	0.995-1.005		51.3575

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	6.04e+08	2.95 y	16:13	1.22	150.755	
Total Di-PCB	3.10e+09	1.56 y	20:12	1.21	1079.31	
Total Tri-PCB	9.92e+08	1.05 y	24:20	1.16	407.934	
Total Tri-PCB	1.69e+09	1.00 y	28:02	1.35	710.506	Sum:1118.44
Total Tetra-PCB	4.35e+09	0.77 y	28:05	1.17	2180.71	
Total Penta-PCB	2.56e+09	1.57 y	32:46	1.21	2113.75	
Total Penta-PCB	3.95e+08	1.41 y	42:01	1.26	262.960	Sum:2376.71
Total Hexa-PCB	5.56e+08	1.27 y	37:10	0.92	751.606	
Total Hexa-PCB	2.01e+09	1.23 y	42:15	1.08	1465.58	Sum:2217.18
Total Hepta-PCB	1.40e+09	1.07 y	42:59	1.27	1351.71	
Total Octa-PCB	3.54e+08	0.91 y	48:24	0.92	472.919	
Total Octa-PCB	1.03e+08	0.87 y	53:04	1.29	147.306	Sum:620.225
Total Nona-PCB	1.18e+08	1.29 y	53:13	0.96	140.567	
Total Deca-PCB	3.55e+07	1.19 y	56:55	1.18	51.3575	

Total PCB Conc:11148.4988290

RL: MONO, TRI - DECA: \_\_\_\_\_

Integrations

by

Analyst: *Dms*

Date: *9/25/14*

Client ID: PCB CS3 14F1901  
Lab ID: ST140925E1-1

Filename: 140925E1 S:1 Acq:25-SEP-14 08:05:32  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140925E1-1  
EndCAL: ST140925E1-2

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	3.28e+08	3.49 y	0.89	16:12	0.622	0.622-0.628		132	132											
13C-PCB-3	3.29e+08	3.52 y	0.93	18:49	0.723	0.721-0.729		127	127		13C-PCB-79	2.33e+08	0.78 y	1.01	37:55	1.029	1.023-1.033		109	109
13C-PCB-4	1.49e+08	1.60 y	0.55	20:10	0.774	0.772-0.780		97.0	97.0		13C-PCB-178	7.47e+07	0.46 y	0.63	45:45	0.984	0.979-0.989		108	108
13C-PCB-9	2.34e+08	1.58 y	0.83	21:57	0.843	0.840-0.848		101	101											
13C-PCB-11	2.63e+08	1.55 y	0.94	25:20	0.973	0.968-0.978		100	100											
13C-PCB-19	1.53e+08	1.08 y	0.53	24:18	0.934	0.929-0.939		103	103											
13C-PCB-28	1.81e+08	1.03 y	0.89	29:11	1.004	0.999-1.009		96.2	96.2		13C-PCB-79	2.33e+08	0.78 y	1.20	37:55	0.969	0.963-0.973		115	115
13C-PCB-32	2.37e+08	1.09 y	0.81	27:14	1.046	1.041-1.051		104	104		13C-PCB-178	7.47e+07	0.46 y	0.94	45:45	0.925	0.920-0.930		114	114
13C-PCB-37	1.70e+08	1.04 y	0.83	33:03	1.137	1.131-1.143		96.3	96.3											
13C-PCB-47	1.52e+08	0.78 y	0.74	32:06	0.871	0.867-0.875		96.0	96.0											
13C-PCB-52	1.47e+08	0.78 y	0.71	31:35	0.857	0.853-0.861		97.2	97.2											
13C-PCB-54	1.82e+08	0.78 y	0.85	28:04	0.762	0.758-0.766		101	101											
13C-PCB-70	2.00e+08	0.79 y	0.94	35:37	0.966	0.961-0.971		99.5	99.5											
13C-PCB-77	1.79e+08	0.79 y	0.89	39:44	1.078	1.073-1.083		94.1	94.1											
13C-PCB-80	2.05e+08	0.78 y	0.96	36:02	0.978	0.972-0.982		100	100											
13C-PCB-81	1.69e+08	0.79 y	0.84	39:09	1.062	1.057-1.067		94.4	94.4											
13C-PCB-95	9.02e+07	1.62 y	0.74	35:55	0.913	0.908-0.918		99.1	99.1											
13C-PCB-97	8.44e+07	1.62 y	0.69	38:54	0.989	0.984-0.994		100	100											
13C-PCB-101	9.58e+07	1.64 y	0.79	37:36	0.956	0.951-0.961		99.7	99.7											
13C-PCB-104	1.20e+08	1.62 y	1.00	32:45	0.833	0.829-0.837		98.7	98.7		13C-PCB-15	2.80e+08	1.56 y	1.00	26:02			100		
13C-PCB-105	1.20e+08	1.56 y	1.24	43:10	0.929	0.924-0.934		88.5	88.5		13C-PCB-31	2.12e+08	1.00 y	1.00	29:04			100		
13C-PCB-114	1.18e+08	1.56 y	1.21	42:19	0.910	0.905-0.915		89.0	89.0		13C-PCB-60	2.13e+08	0.78 y	1.00	36:51			100		
13C-PCB-118	1.18e+08	1.63 y	0.98	41:39	1.059	1.054-1.064		97.6	97.6		13C-PCB-111	1.22e+08	1.61 y	1.00	39:20			100		
13C-PCB-123	1.10e+08	1.60 y	0.95	41:28	1.054	1.049-1.059		95.1	95.1		13C-PCB-128	1.09e+08	1.27 y	1.00	46:28			100		
13C-PCB-126	1.11e+08	1.54 y	1.16	45:24	0.977	0.972-0.982		87.5	87.5		13C-PCB-205	6.96e+07	0.87 y	1.00	54:12			100		
13C-PCB-127	1.31e+08	1.57 y	1.34	43:30	0.936	0.931-0.941		88.9	88.9											
13C-PCB-138	1.17e+08	1.27 y	1.04	44:54	0.966	0.961-0.971		103	103											
13C-PCB-141	1.18e+08	1.29 y	1.07	44:04	0.948	0.943-0.953		100	100											
13C-PCB-153	1.25e+08	1.29 y	1.11	43:19	0.932	0.927-0.937		103	103											
13C-PCB-155	8.07e+07	1.28 y	0.83	37:08	0.944	0.939-0.949		79.3	79.3											
13C-PCB-156	1.33e+08	1.30 y	1.24	48:10	1.037	1.032-1.042		97.4	97.4											
13C-PCB-157	1.40e+08	1.30 y	1.31	48:26	1.042	1.037-1.047		97.9	97.9											
13C-PCB-159	1.34e+08	1.29 y	1.20	46:11	0.994	0.989-0.999		102	102											
13C-PCB-167	1.45e+08	1.28 y	1.32	46:53	1.009	1.004-1.014		100	100											
13C-PCB-169	1.21e+08	1.27 y	1.22	50:35	1.088	1.082-1.092		91.3	91.3											
13C-PCB-170	5.59e+07	0.47 y	0.54	50:57	1.096	1.089-1.101		95.4	95.4											
13C-PCB-180	6.99e+07	0.47 y	0.67	49:28	1.064	1.059-1.069		94.8	94.8											
13C-PCB-188	9.59e+07	0.47 y	0.94	42:57	0.924	0.919-0.929		93.7	93.7											
13C-PCB-189	7.12e+07	0.47 y	0.72	52:26	1.128	1.120-1.132		90.9	90.9											
13C-PCB-194	5.45e+07	0.90 y	0.81	53:55	0.995	0.990-1.000		96.6	96.6											
13C-PCB-202	8.15e+07	0.92 y	0.83	48:23	1.041	1.036-1.046		89.5	89.5											
13C-PCB-206	5.97e+07	0.78 y	0.66	55:34	1.025	1.021-1.031		130	130											
13C-PCB-208	1.01e+08	0.77 y	1.12	53:12	0.982	0.976-0.986		129	129											
13C-PCB-209	5.89e+07	1.21 y	0.61	56:54	1.050	1.044-1.054		138	138											

Analyst: *Dms*

Date: *9/25/14*

Vista Analytical Laboratory - Injection Log Run file: 140925E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140925E1	1	ST140925E1-1	DMS	25-SEP-14	08:05:32	ST140925E1-1	ST140925E1-2
140925E1	2	B4I0093-BS1	DMS	25-SEP-14	09:09:55	ST140925E1-1	ST140925E1-2
140925E1	3	B4I0067-BS1	DMS	25-SEP-14	10:14:19	ST140925E1-1	NA
140925E1	4	SOLVENT BLANK	DMS	25-SEP-14	11:18:42	ST140925E1-1	ST140925E1-2
140925E1	5	B4I0093-BLK1	DMS	25-SEP-14	12:23:07	ST140925E1-1	ST140925E1-2
140925E1	6	B4I0067-BLK1	DMS	25-SEP-14	13:27:30	ST140925E1-1	NA
140925E1	7	1400646-01	DMS	25-SEP-14	14:31:54	ST140925E1-1	ST140925E1-2
140925E1	8	1400646-02	DMS	25-SEP-14	15:36:16	ST140925E1-1	ST140925E1-2
140925E1	9	1400646-03	DMS	25-SEP-14	16:40:39	ST140925E1-1	ST140925E1-2
140925E1	10	1400668-01	DMS	25-SEP-14	17:45:06	ST140925E1-1	NA
140925E1	11	1400668-02	DMS	25-SEP-14	18:49:29	ST140925E1-1	NA
140925E1	12	SOLVENT BLANK	DMS	25-SEP-14	19:53:52	ST140925E1-1	ST140925E1-2
140925E1	13	ST140925E1-2	DMS	25-SEP-14	20:58:18	ST140925E1-1	ST140925E1-2

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140925E1-1

End Calibration ID: NA

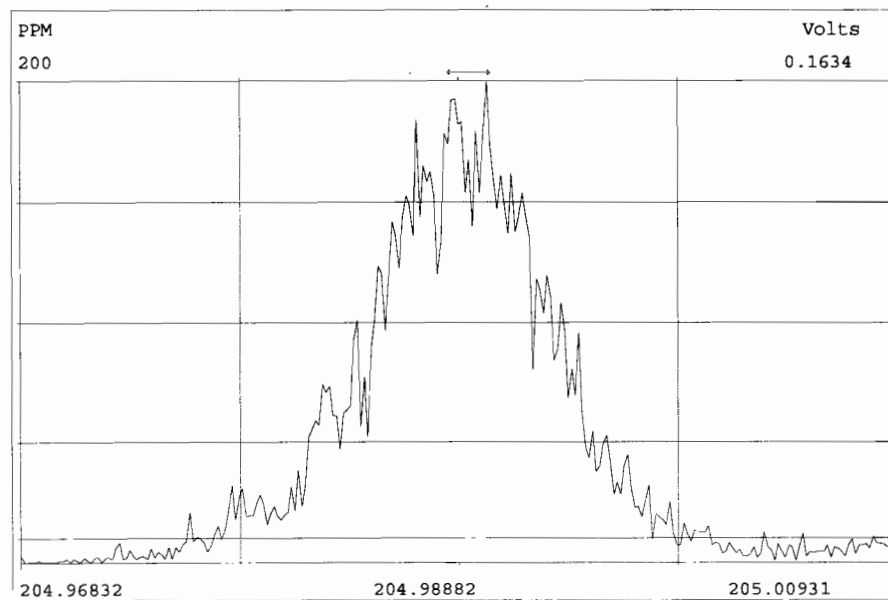
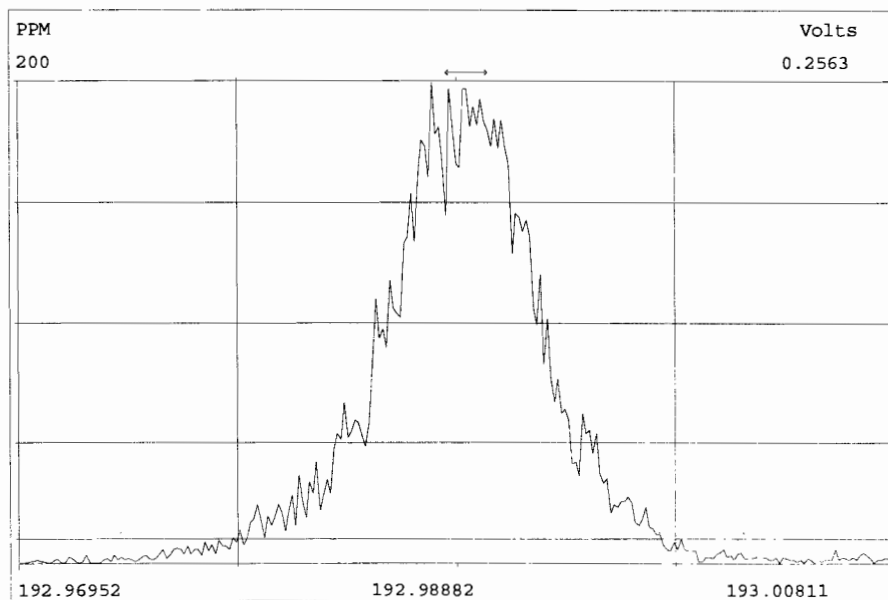
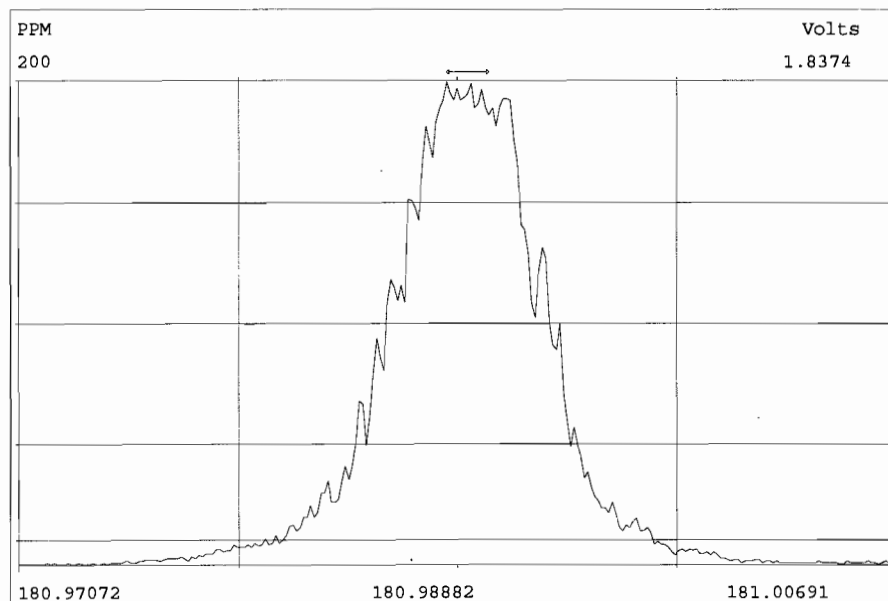
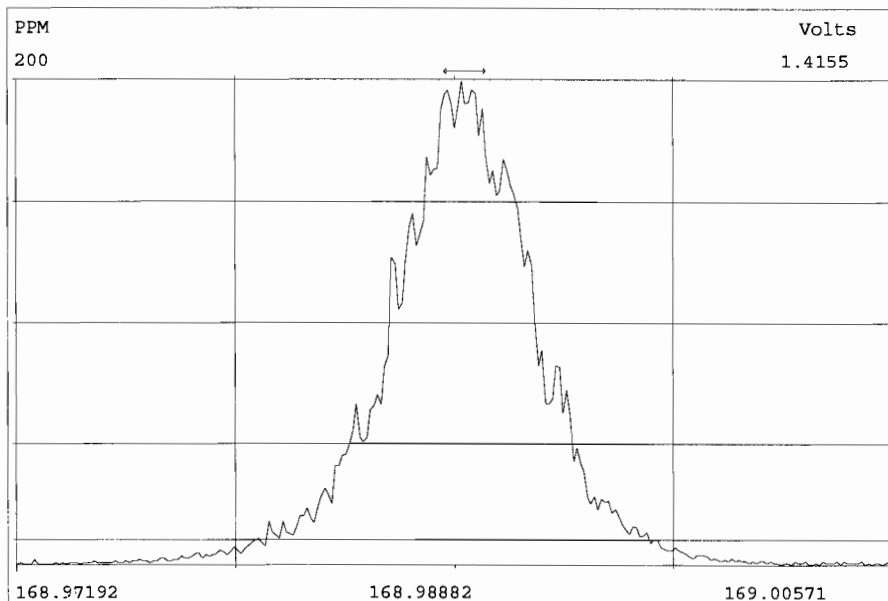
	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> pm 9/25/14	<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

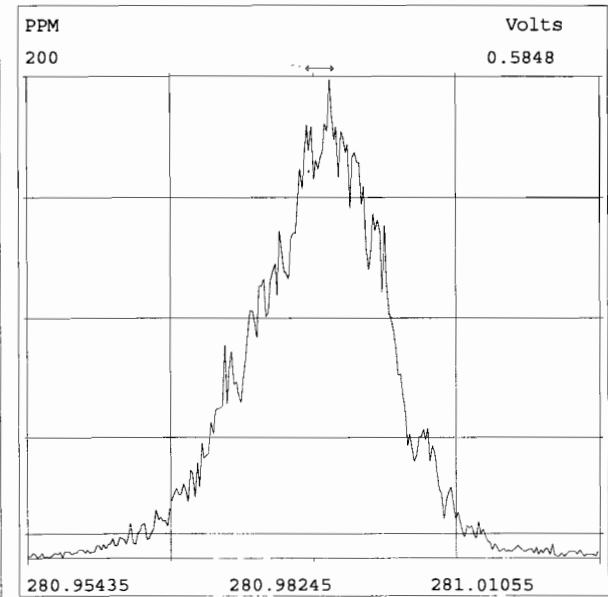
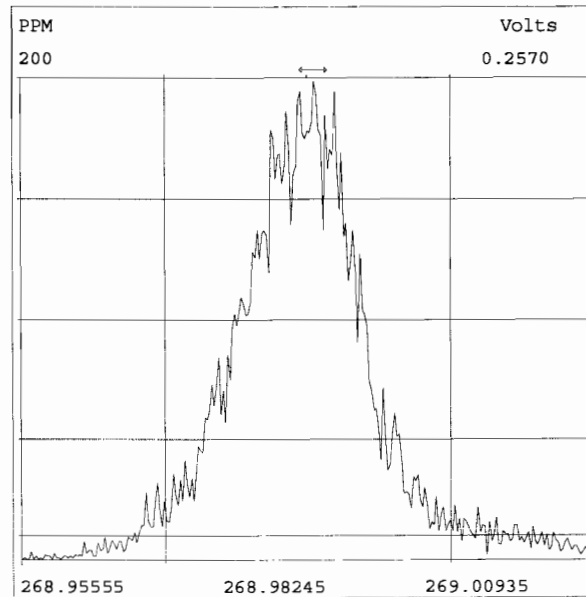
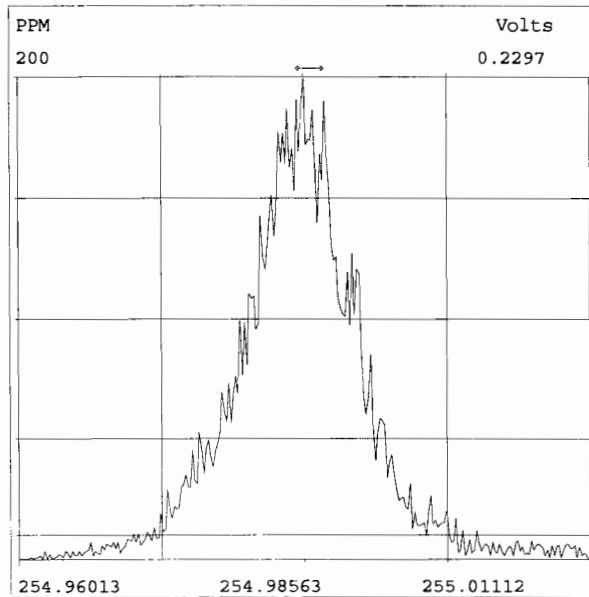
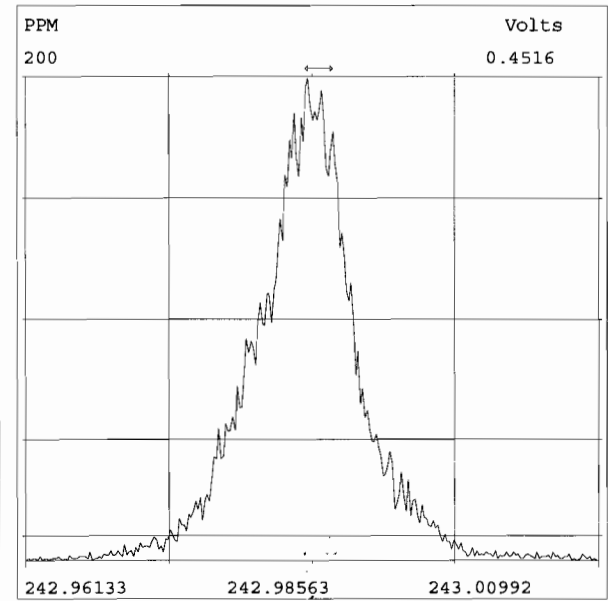
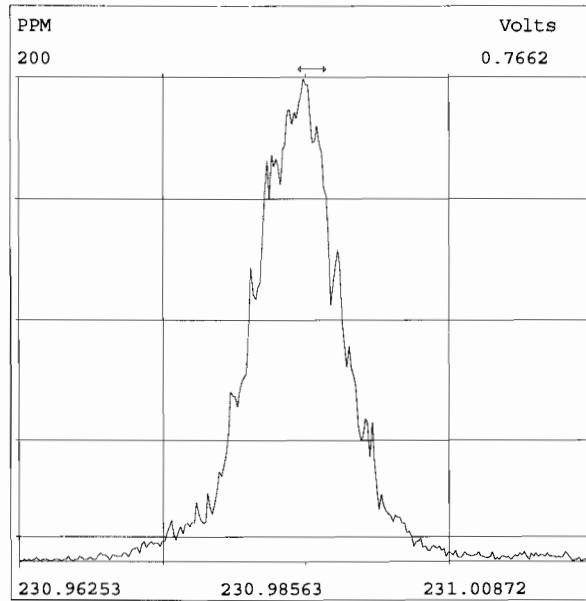
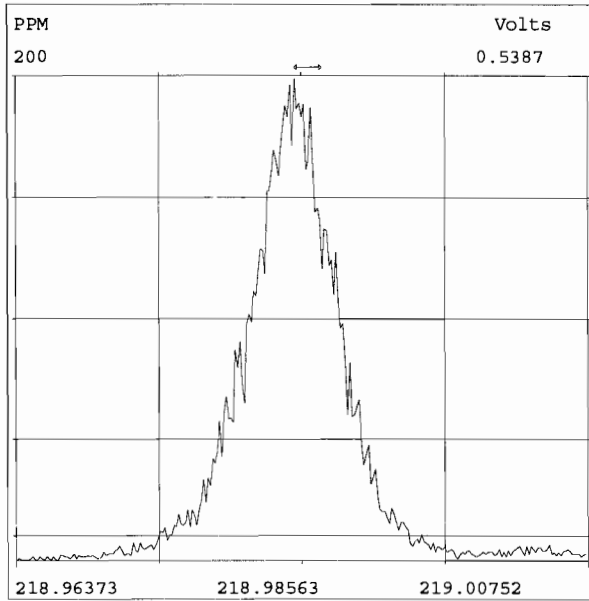
	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input type="checkbox"/> NA	<input type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8280 CS1 Ending Standard		<input type="checkbox"/>
-Ratios within limits		<input type="checkbox"/>
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

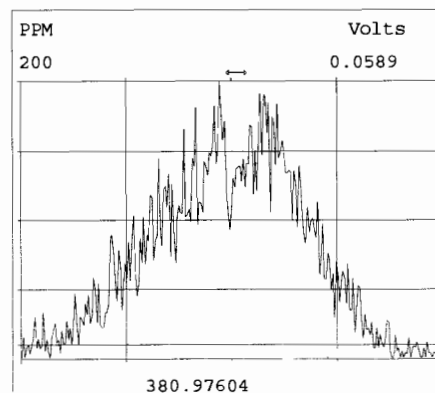
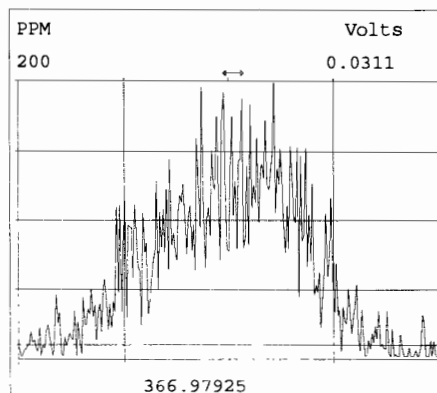
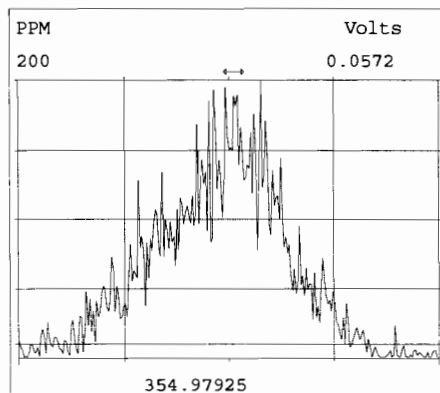
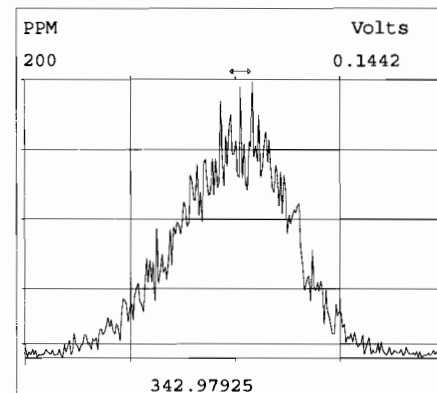
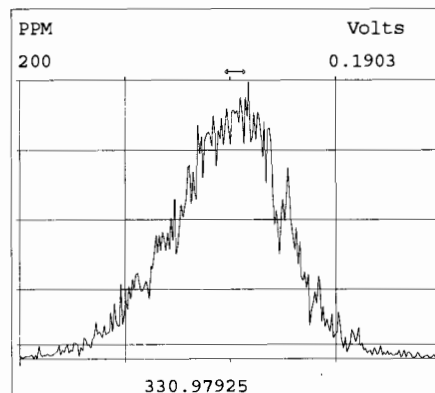
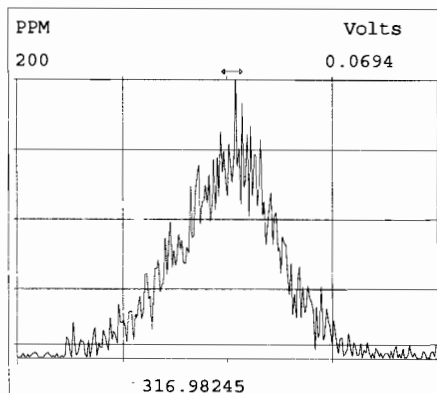
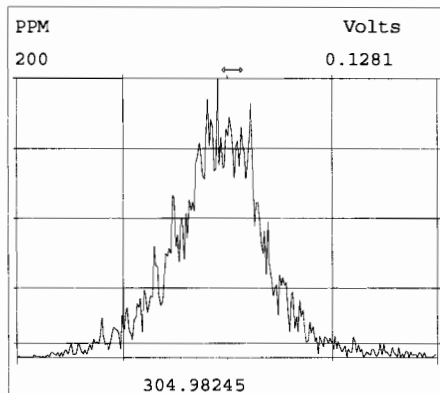
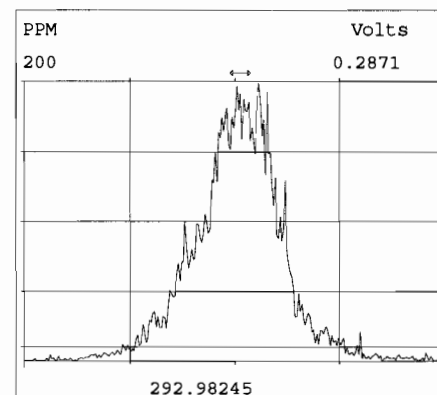
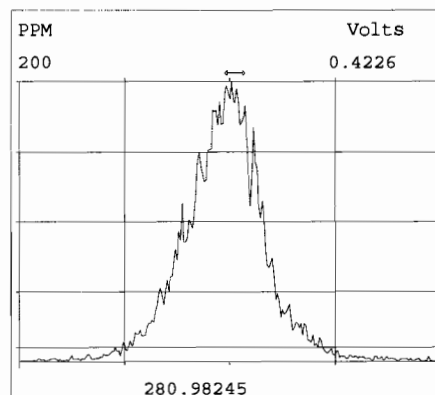
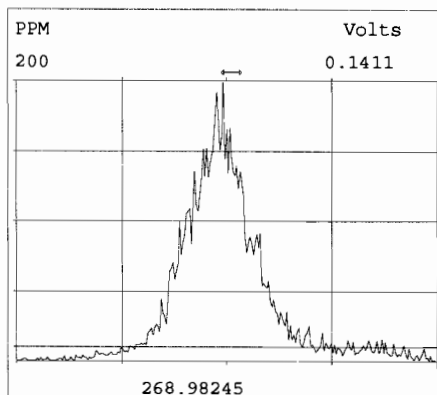
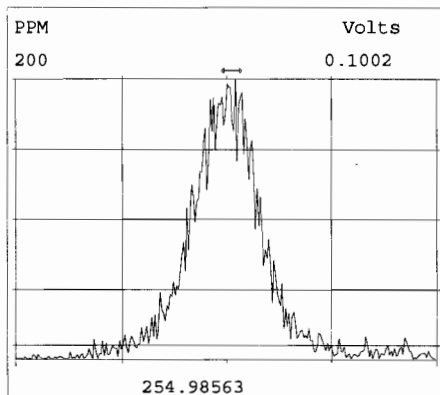
**Comments:**

Reviewed by: MM 9/26/14  
Initials & Date

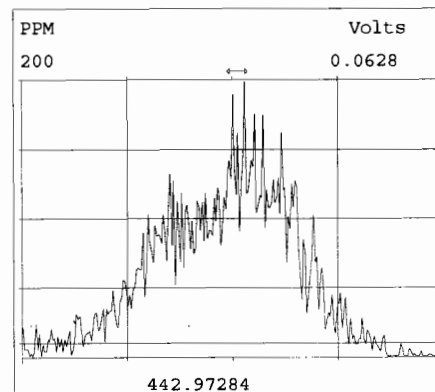
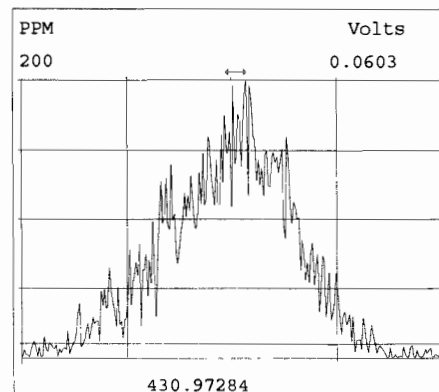
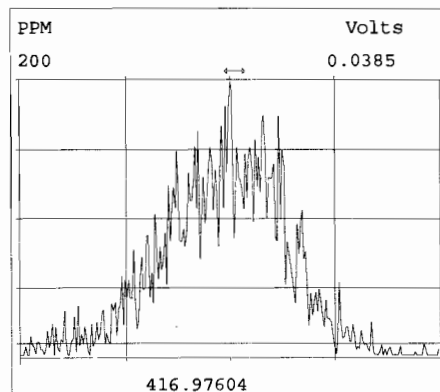
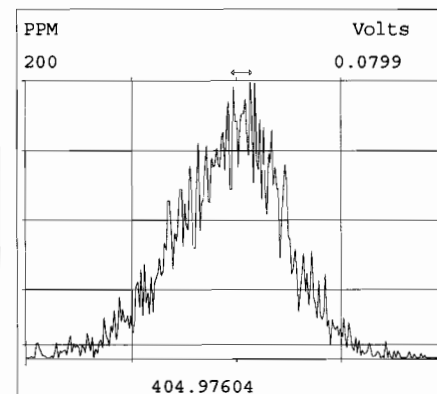
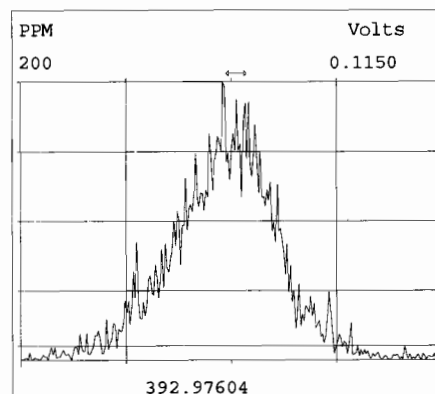
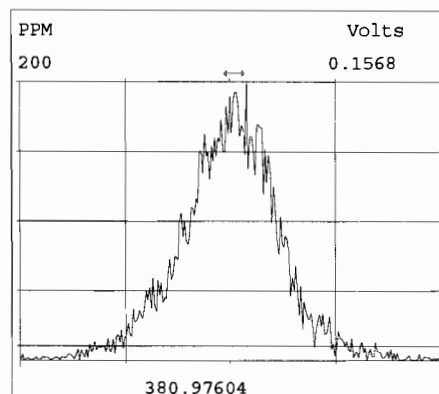
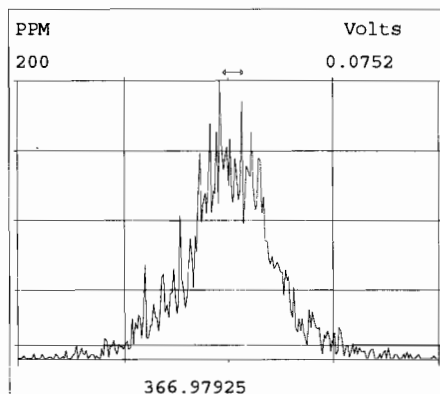
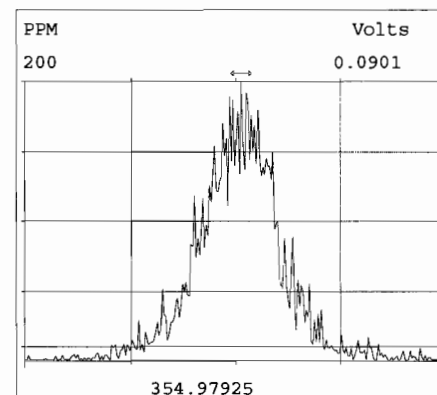
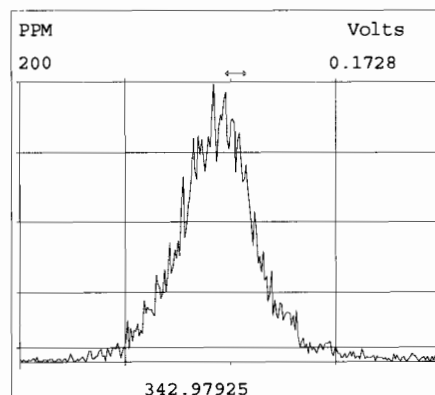
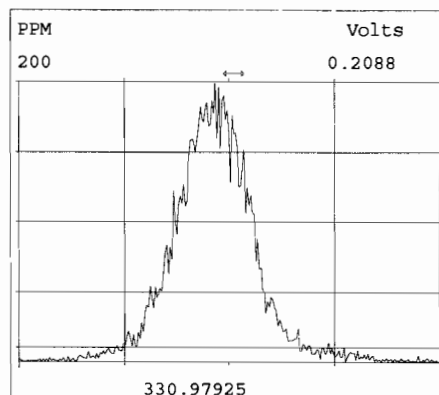
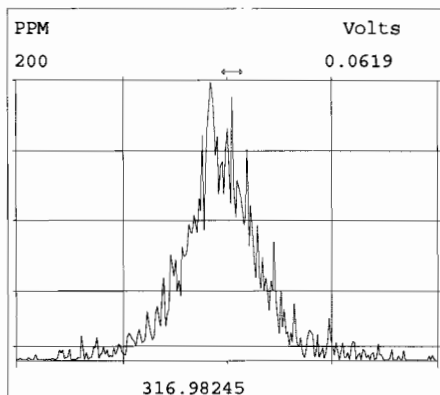
\* Ending standard criteria applicable to 8290 only.

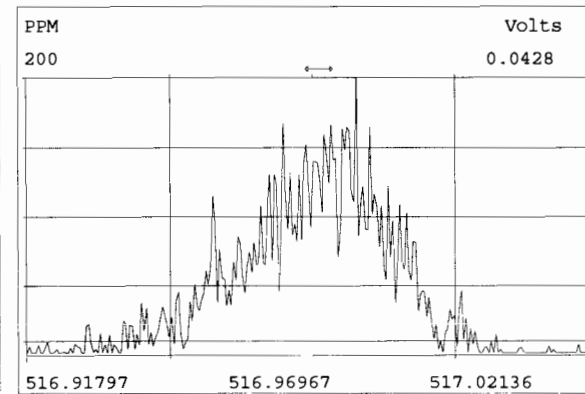
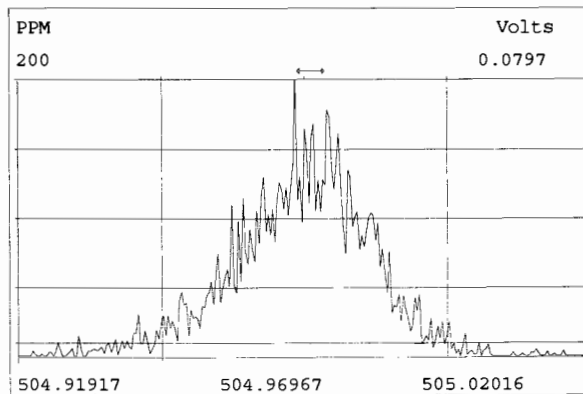
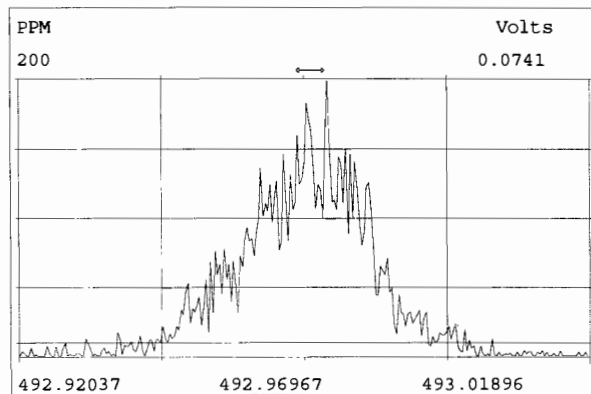
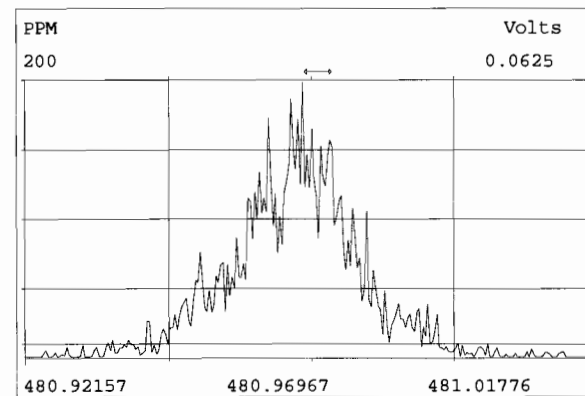
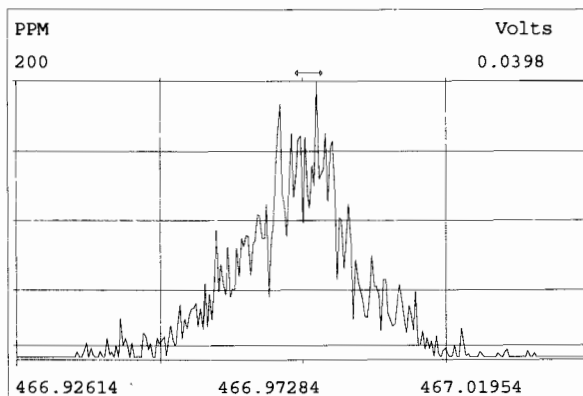
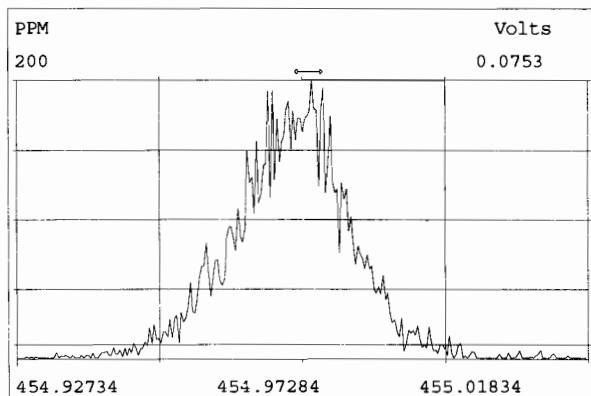
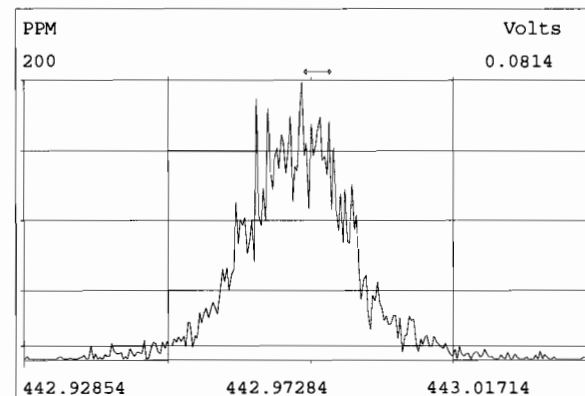
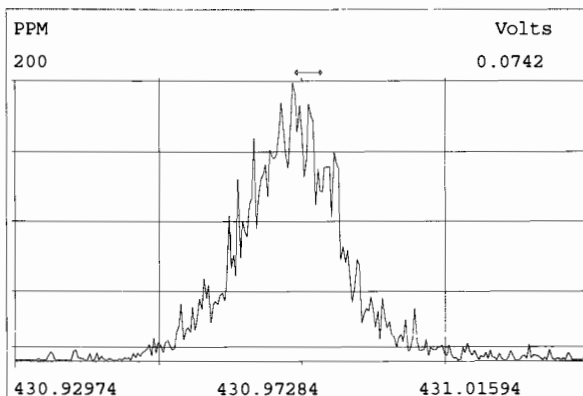
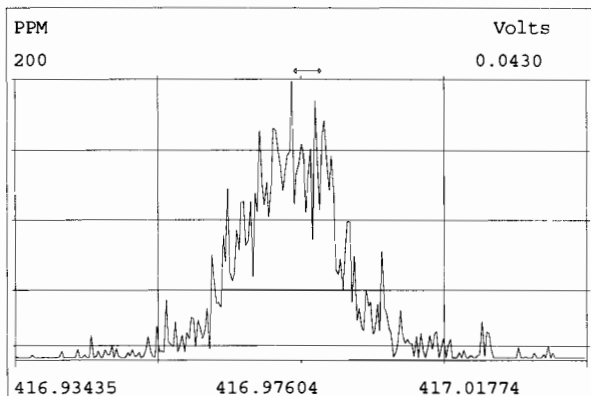




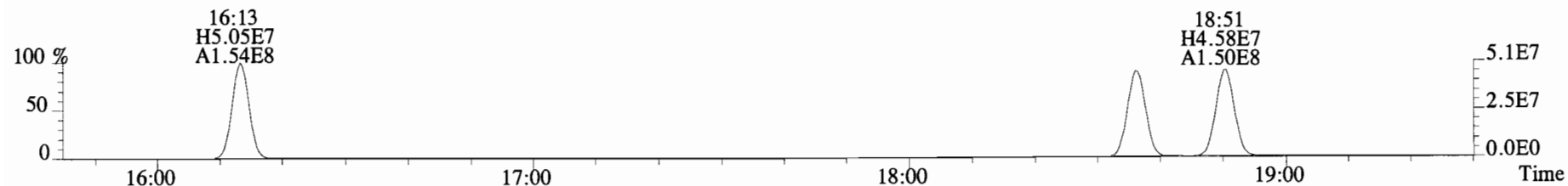




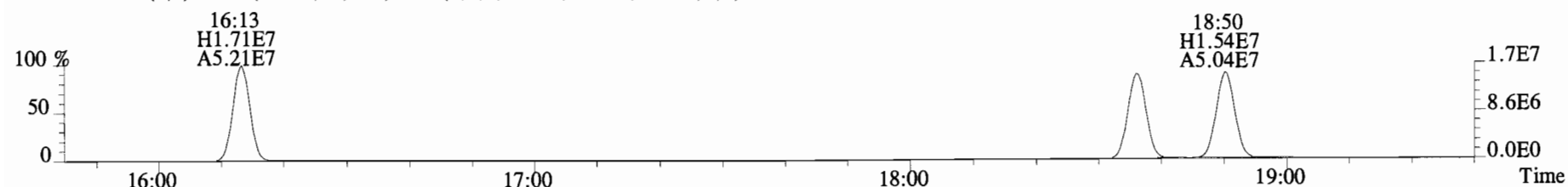




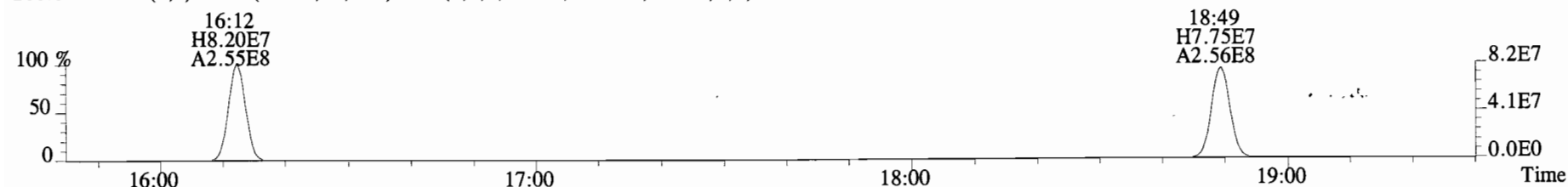
File:140925E1 #1-728 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
 188.0393 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8768.0,0.00%,F,F)



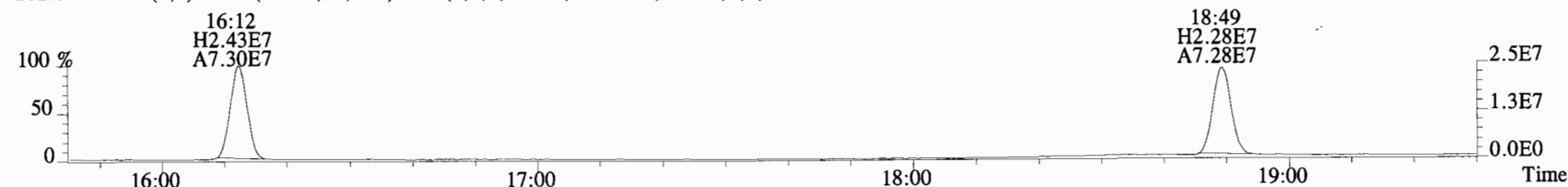
190.0363 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9752.0,0.00%,F,F)



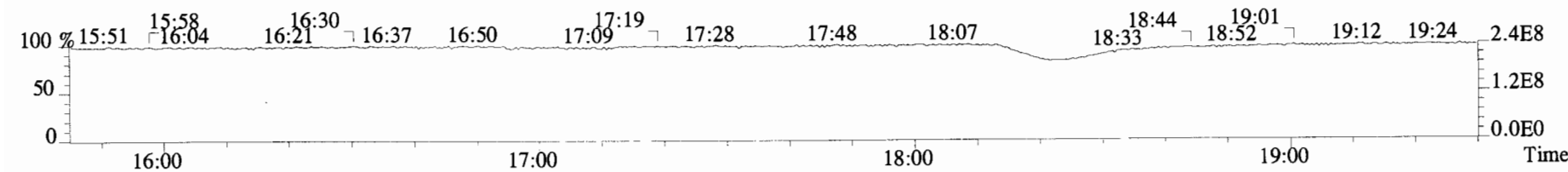
200.0795 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13304.0,0.00%,F,F)



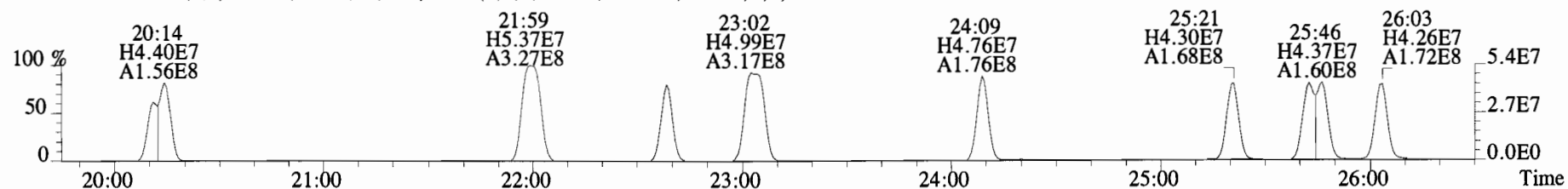
202.0766 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,609604.0,0.00%,F,F)



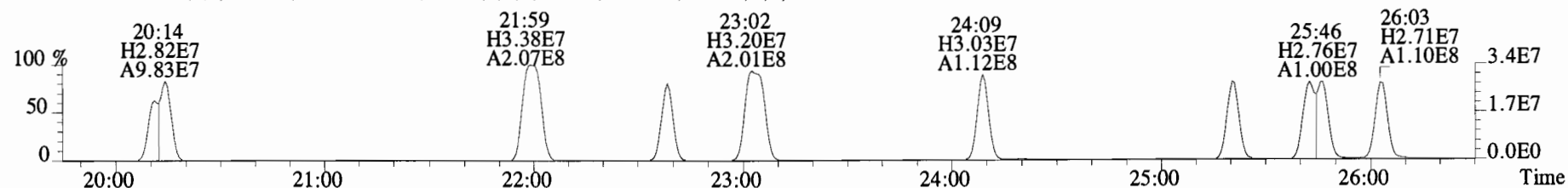
180.9880



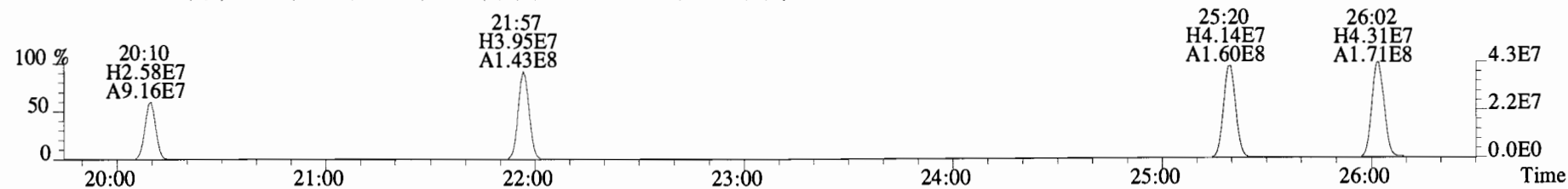
File:140925E1 #1-757 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
 222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12648.0,0.00%,F,F)



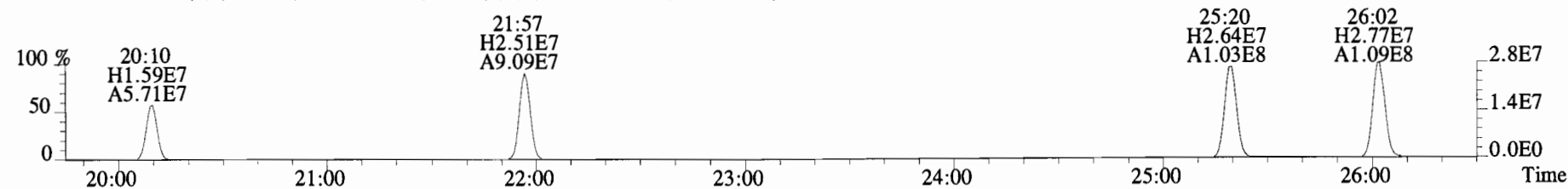
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38796.0,0.00%,F,F)



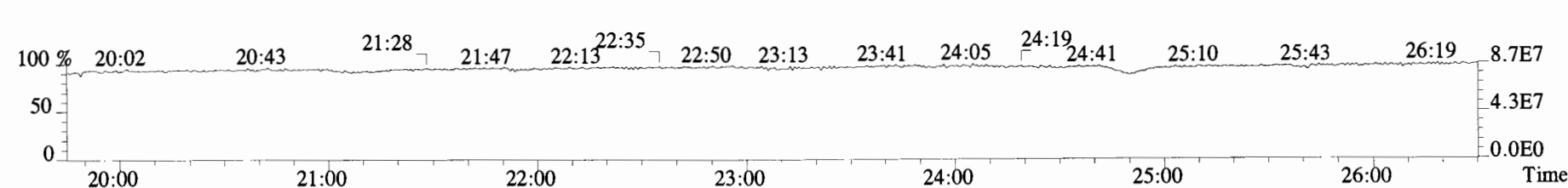
234.0406 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11040.0,0.00%,F,F)



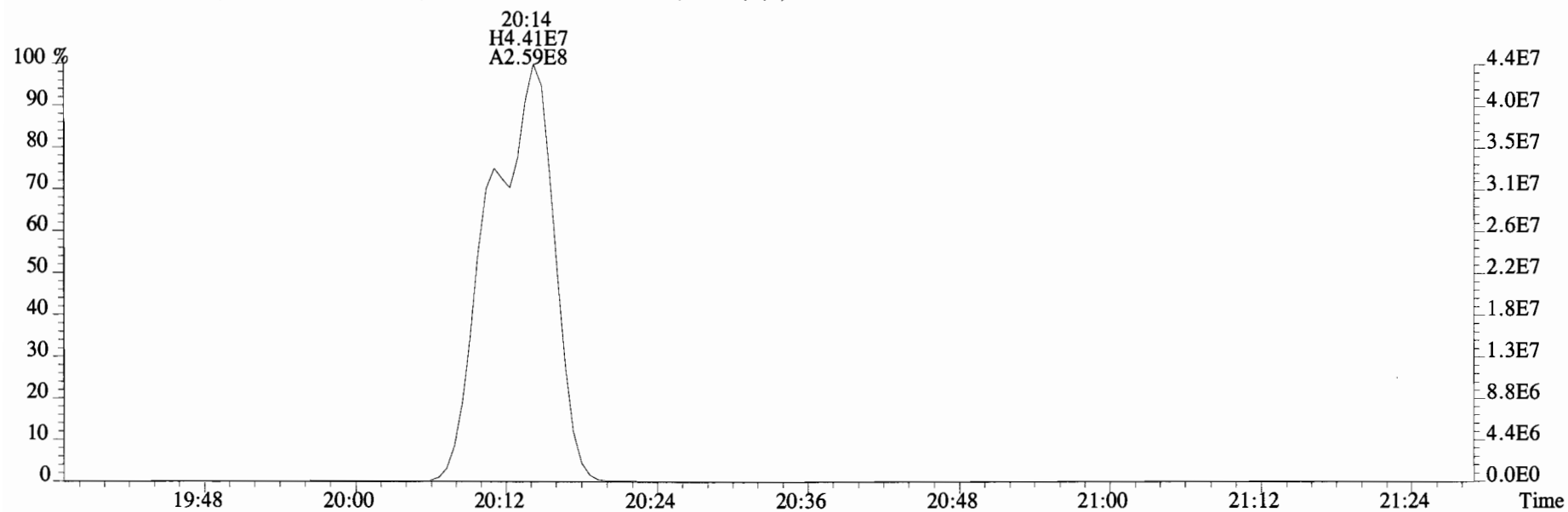
236.0376 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7600.0,0.00%,F,F)



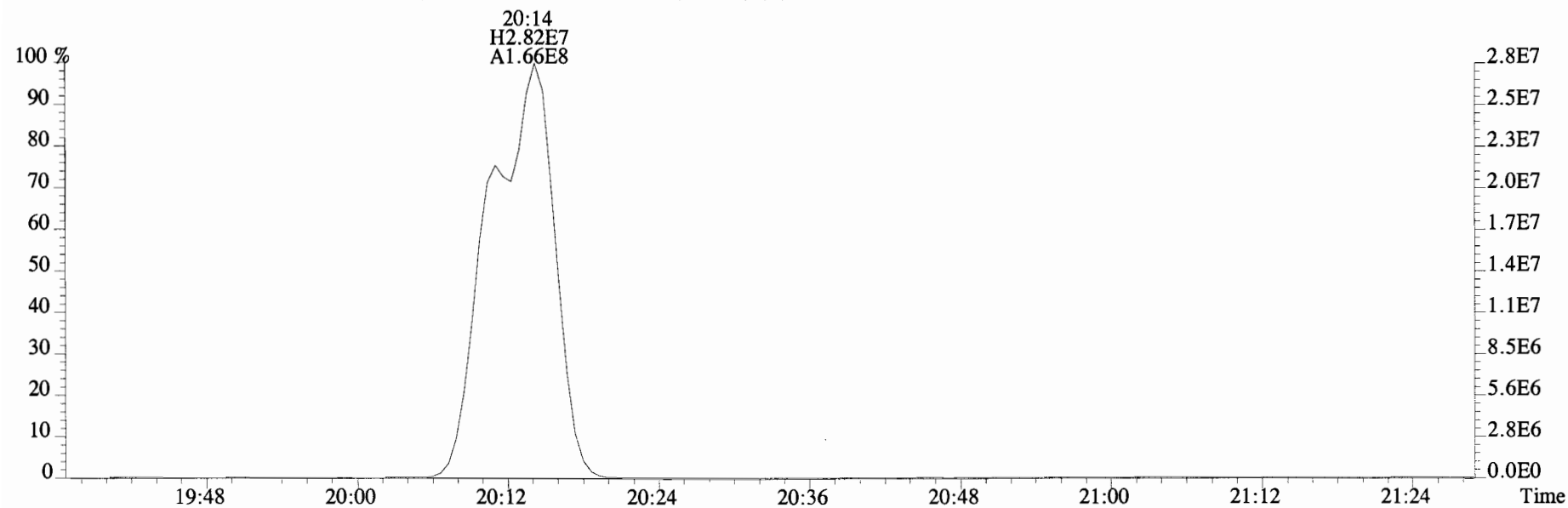
230.9856 F:2



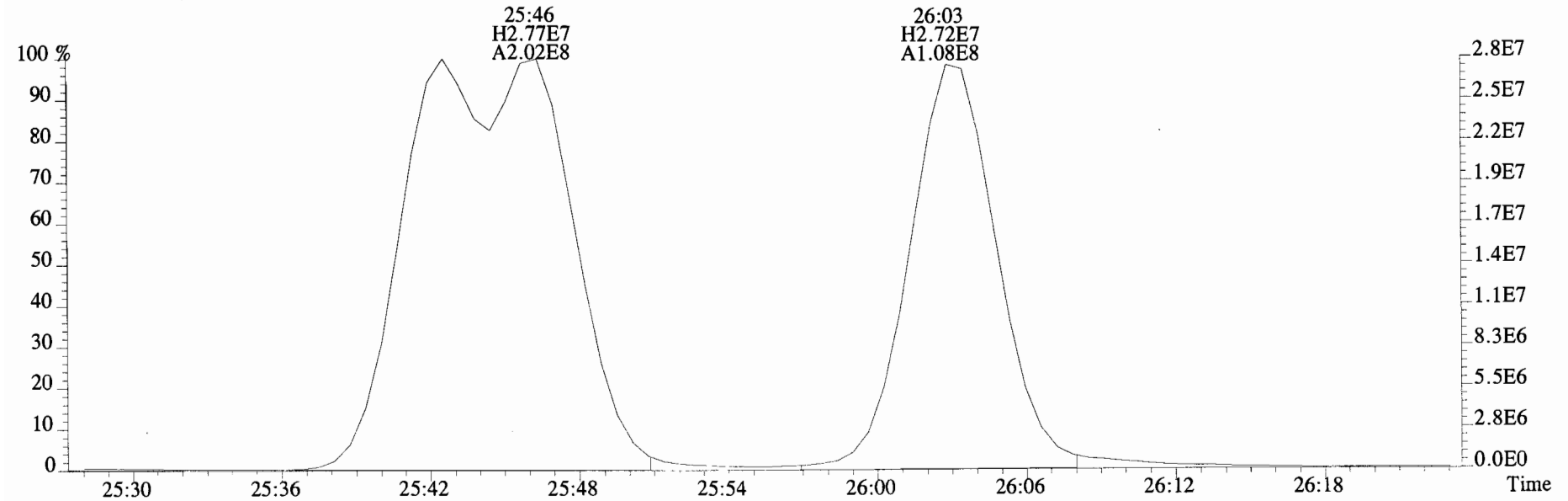
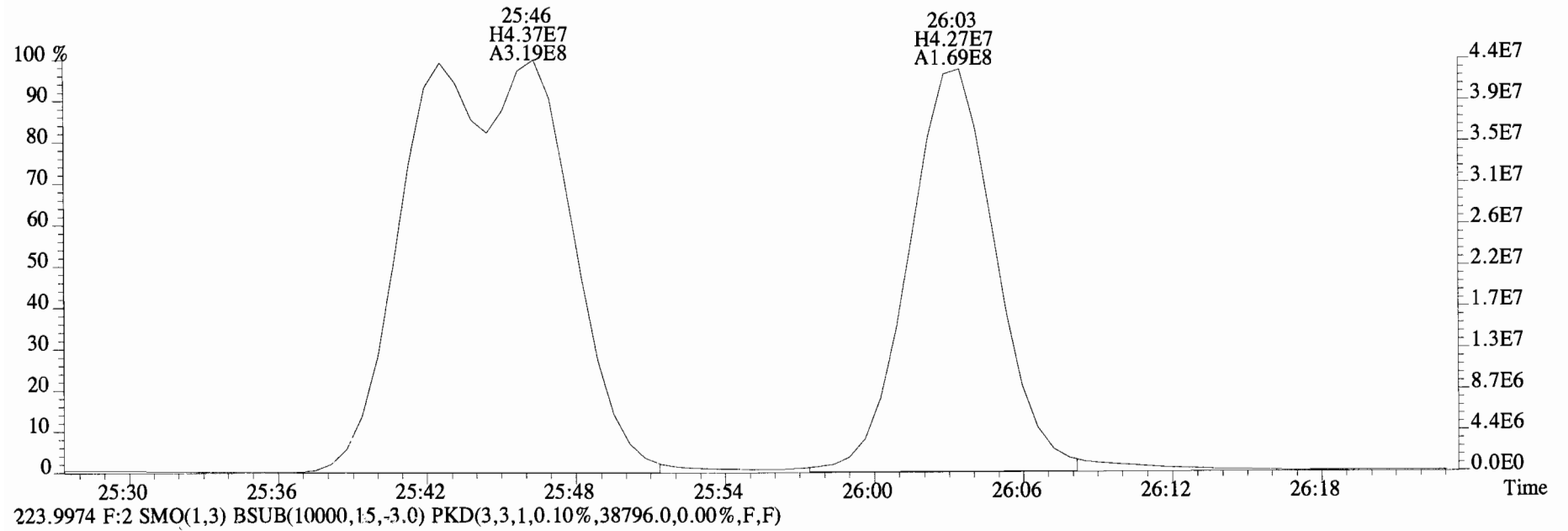
File:140925E1 #1-757 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12648.0,0.00%,F,F)



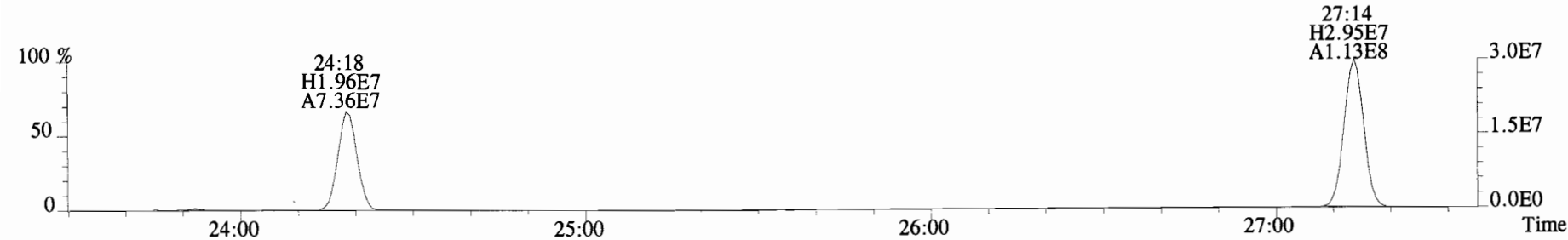
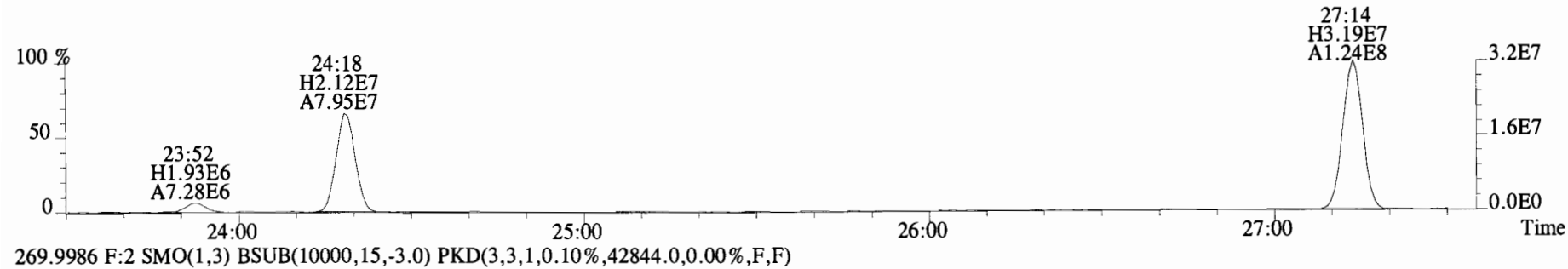
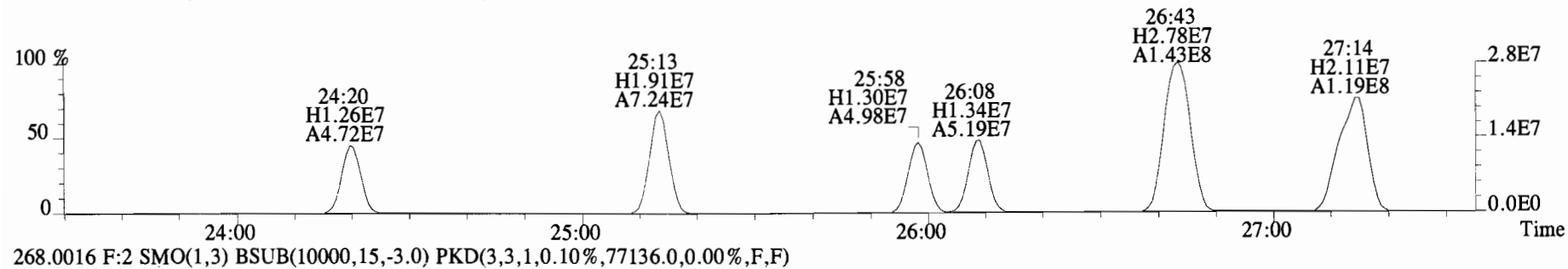
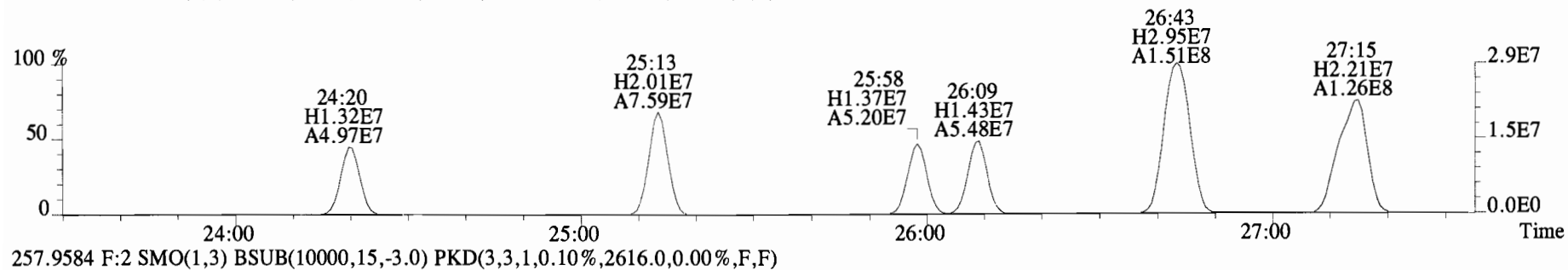
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38796.0,0.00%,F,F)



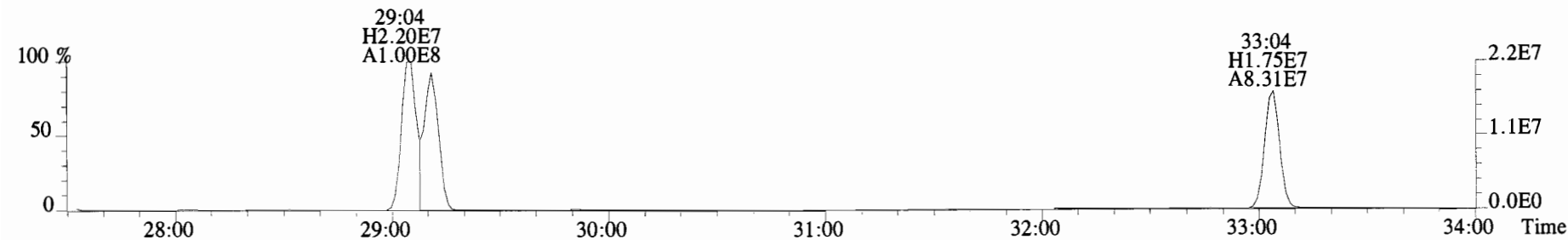
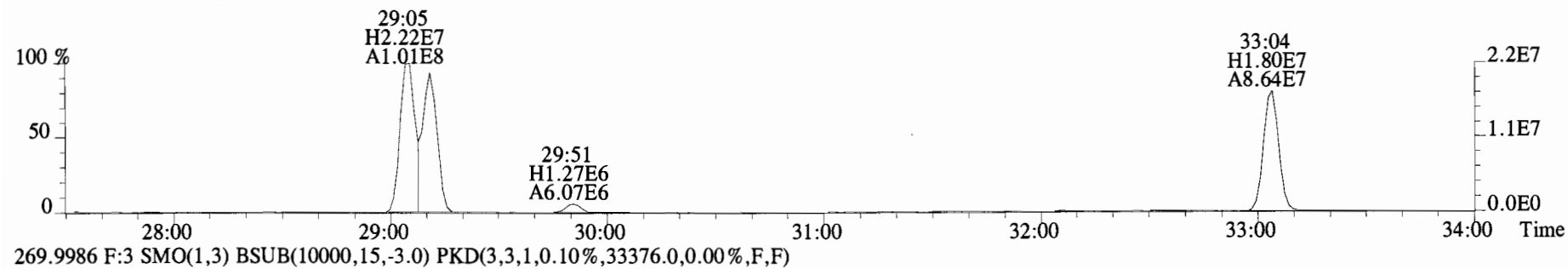
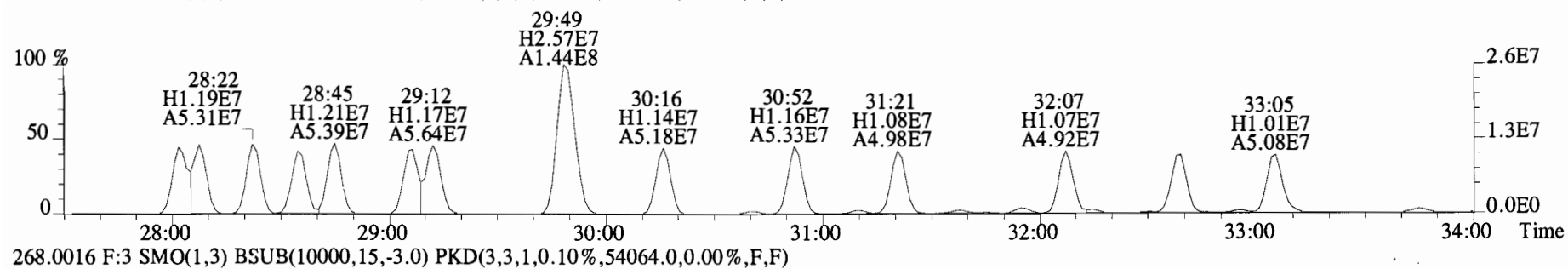
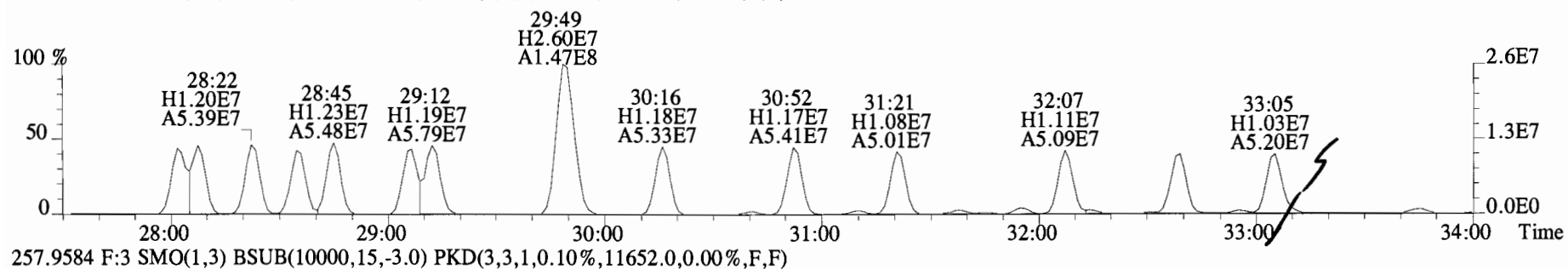
File:140925E1 #1-757 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12648.0,0.00%,F,F)



File:140925E1 #1-757 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6044.0,0.00%,F,F)

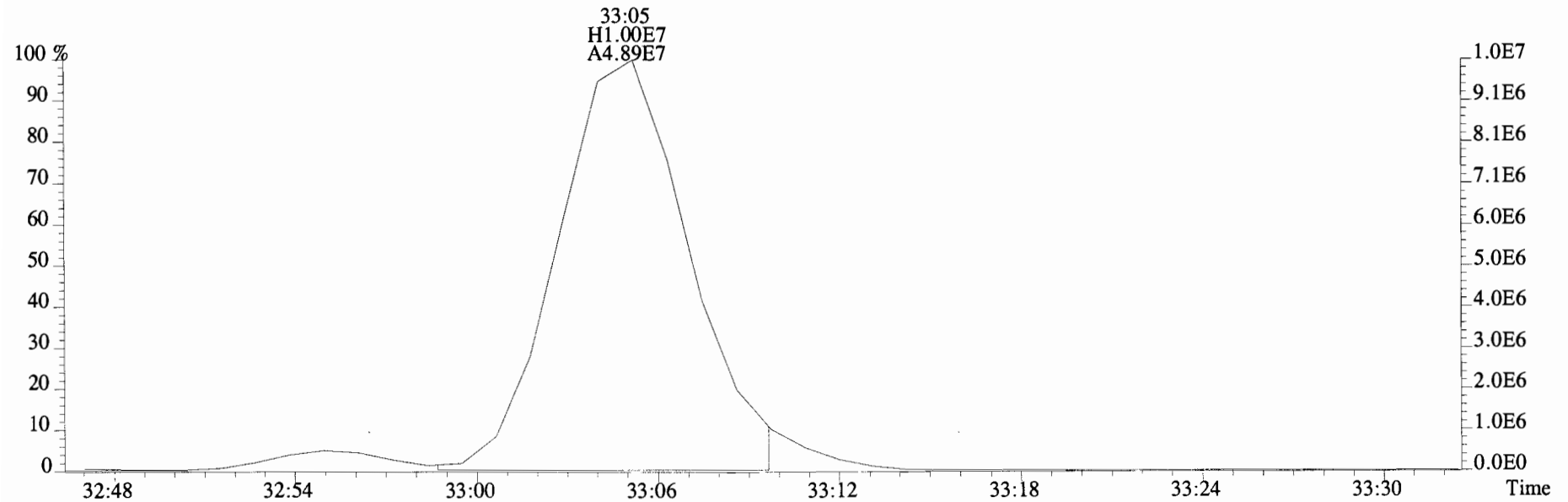
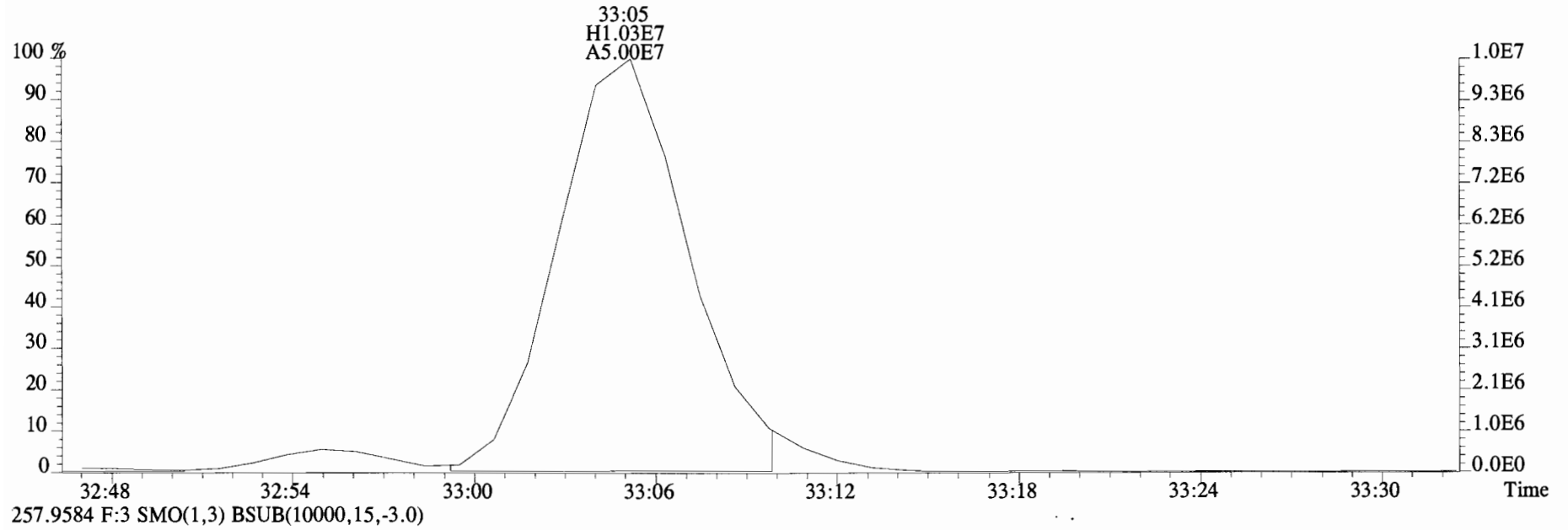


File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
 255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15964.0,0.00%,F,F)

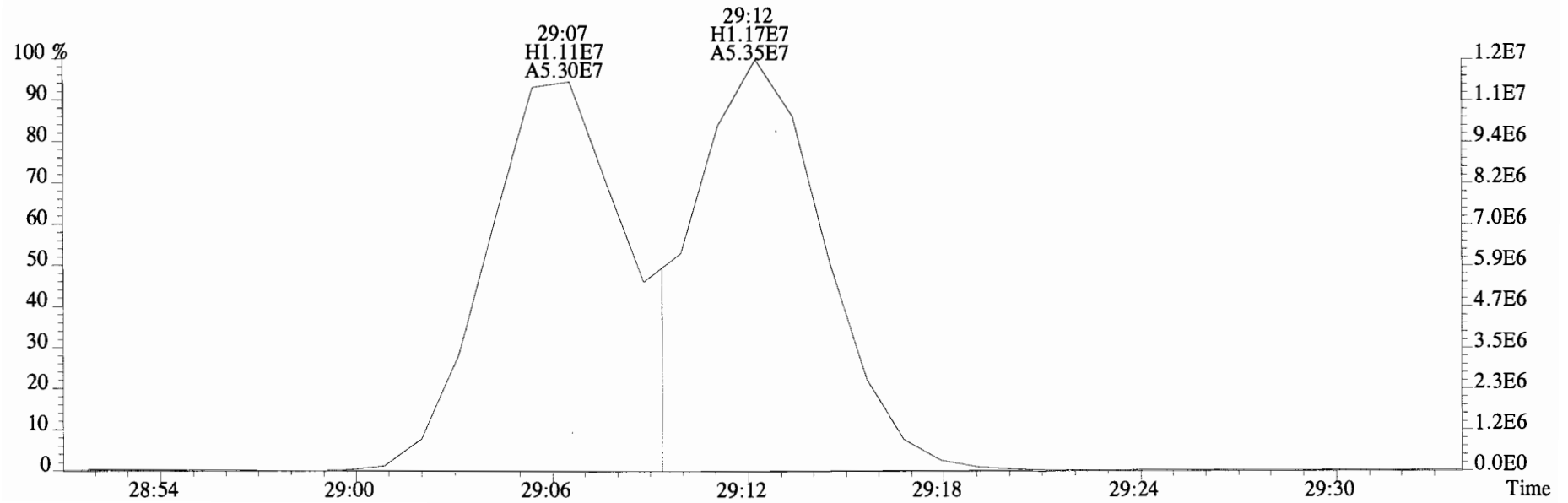
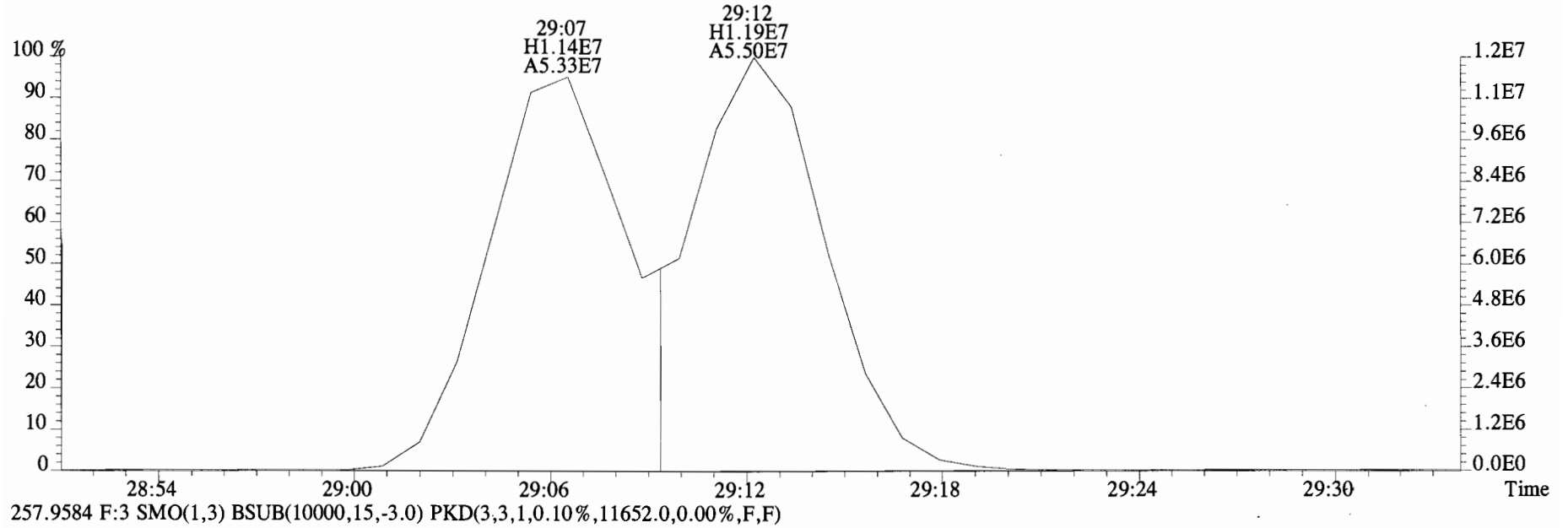




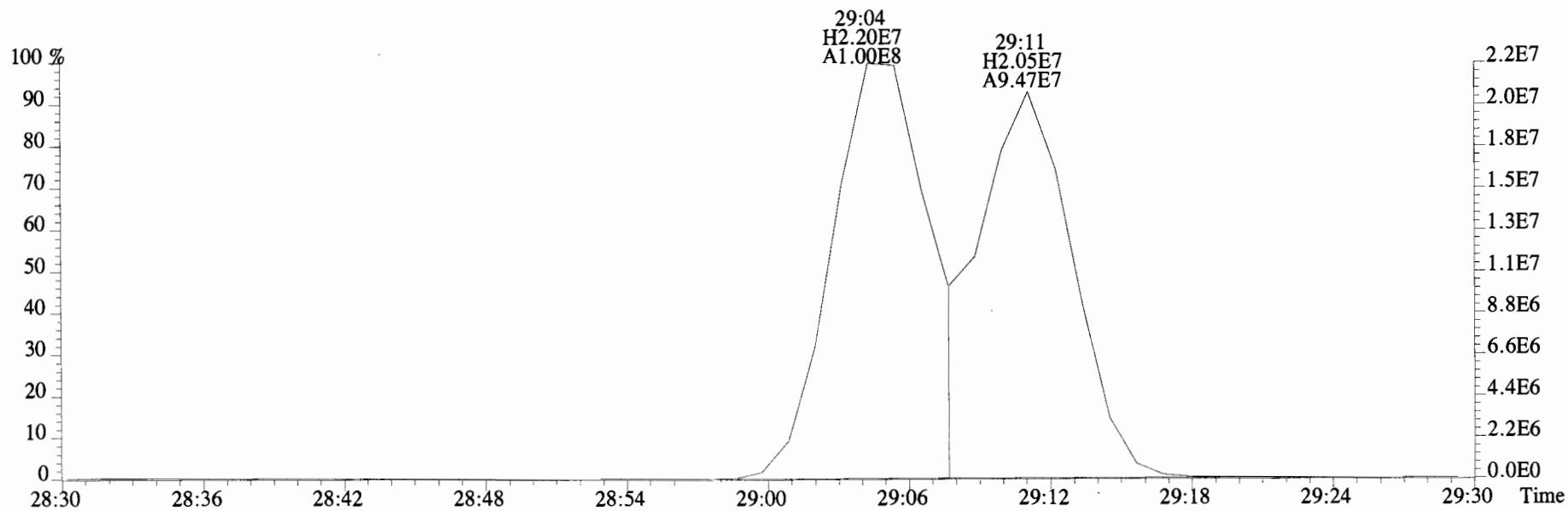
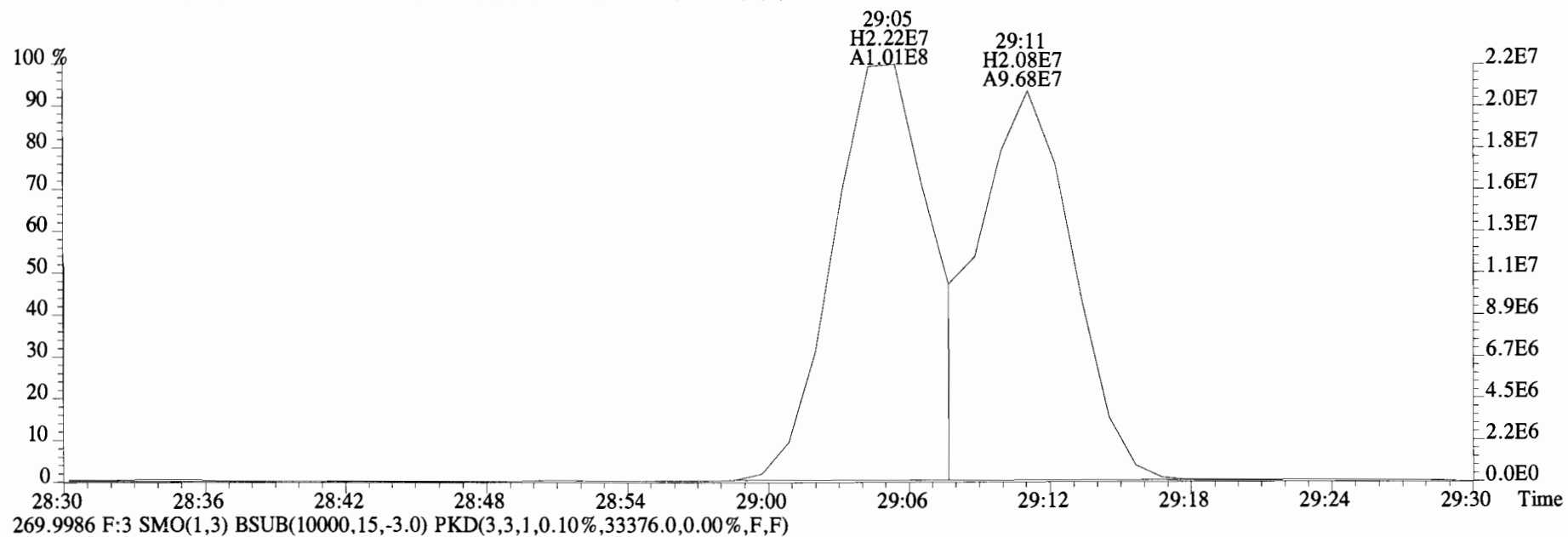
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0)



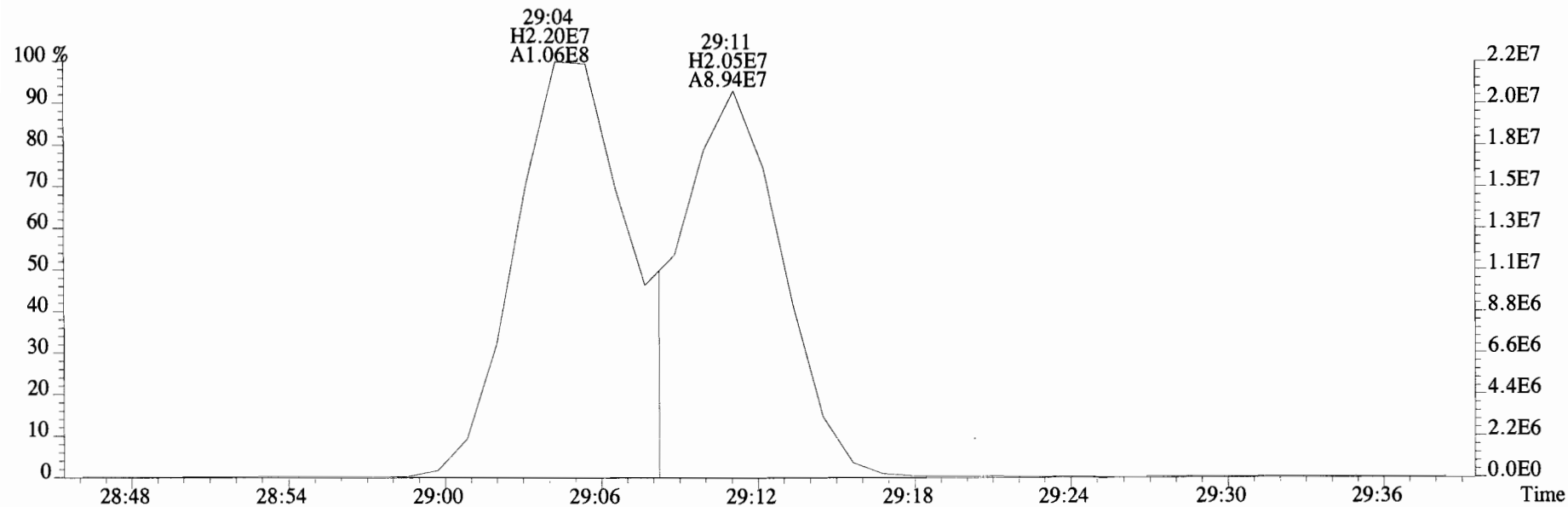
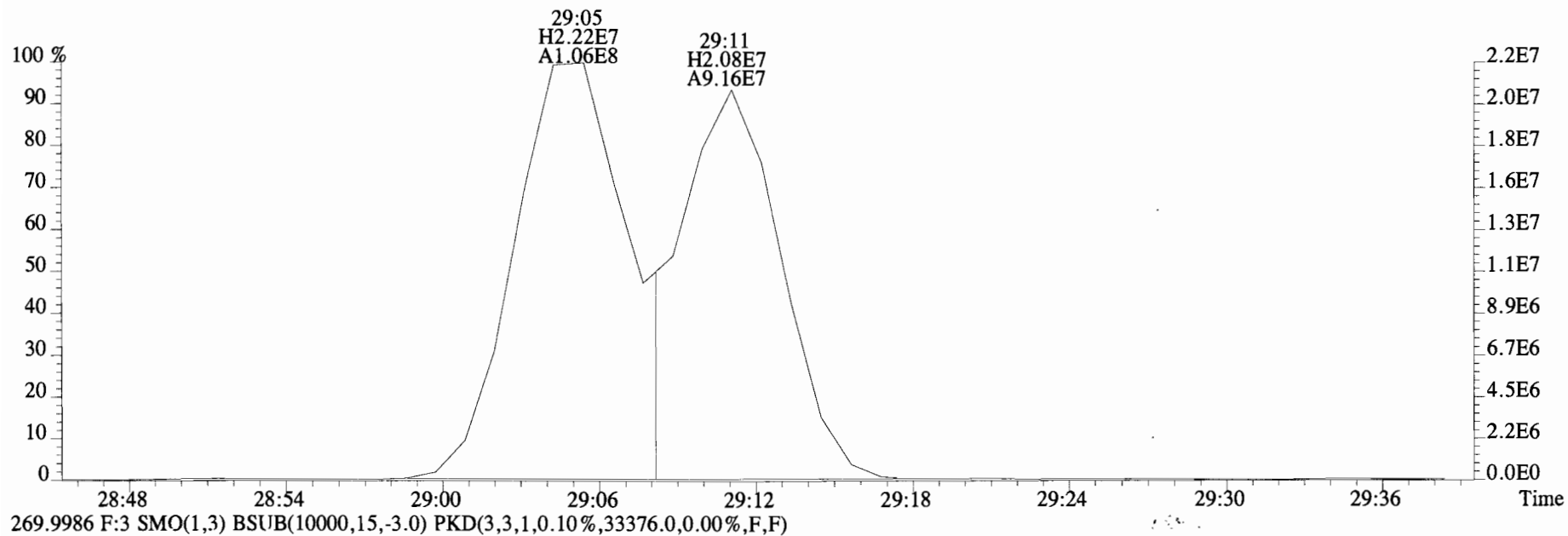
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,15964.0,0.00%,F,F)



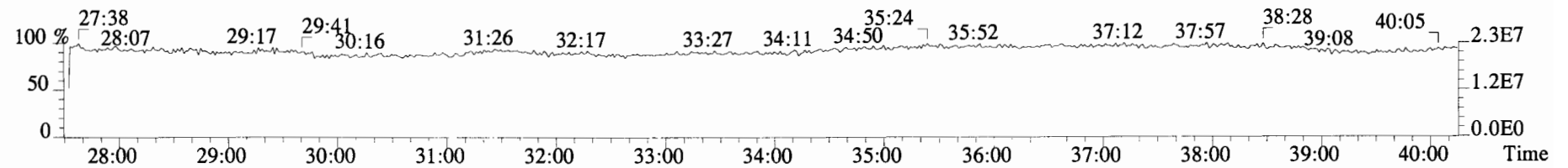
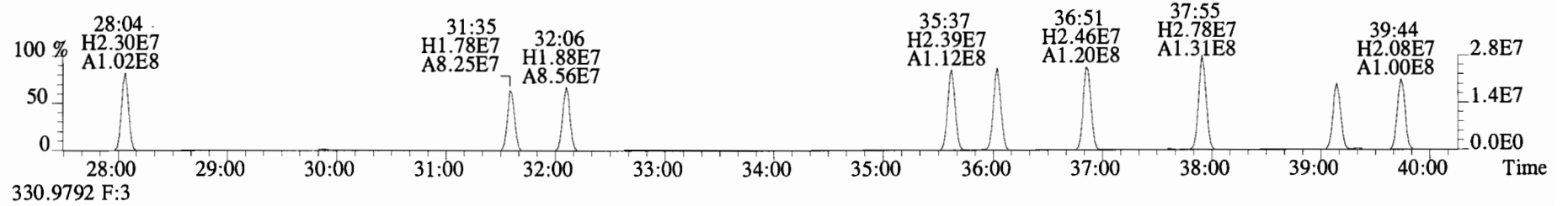
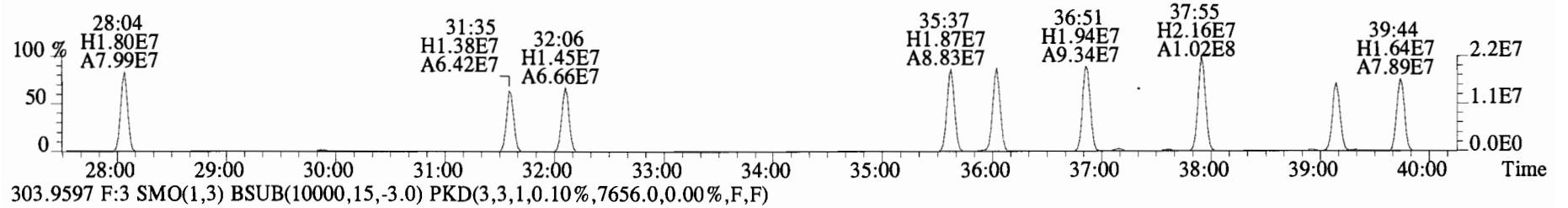
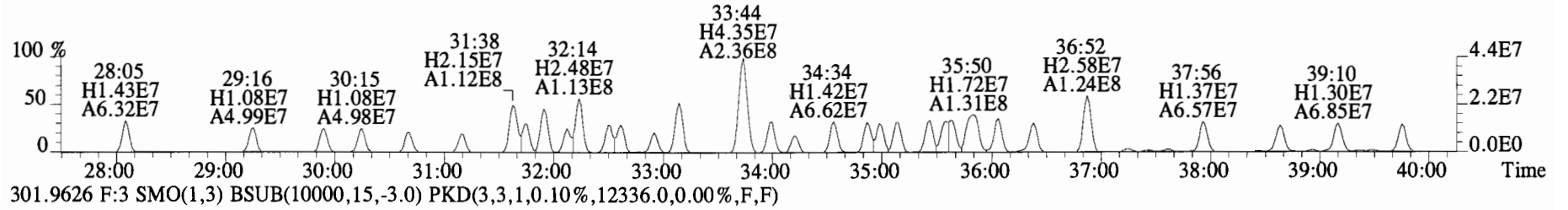
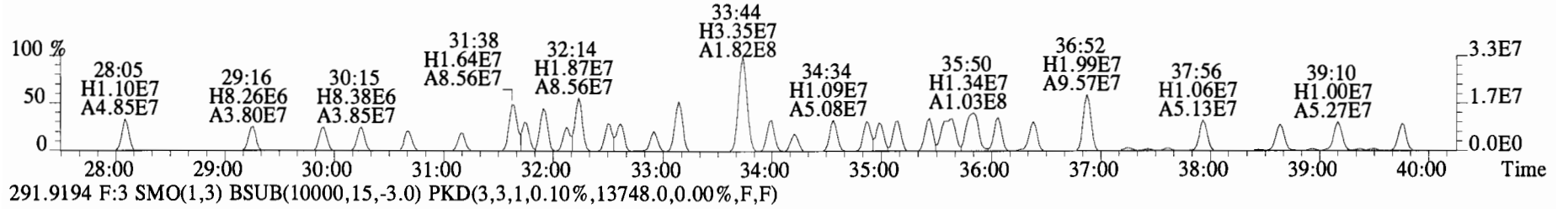
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
268.0016 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,54064.0,0.00%,F,F)



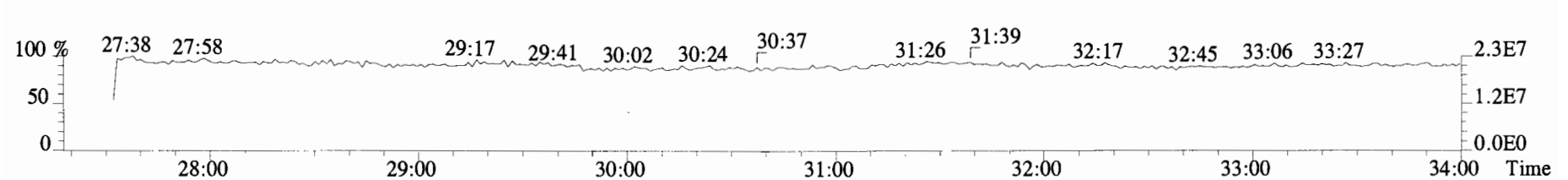
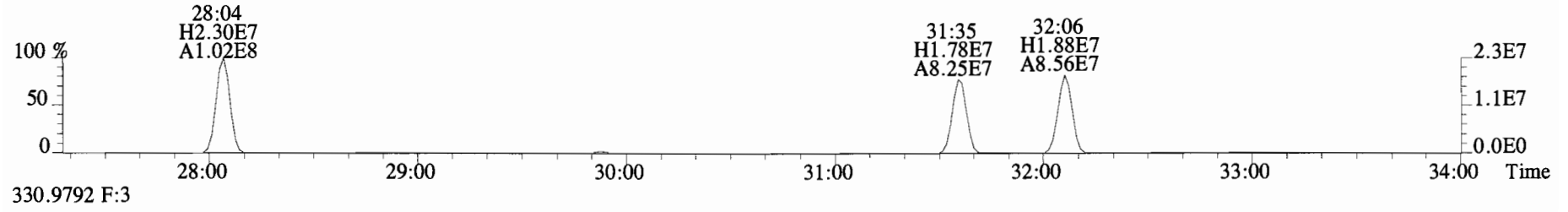
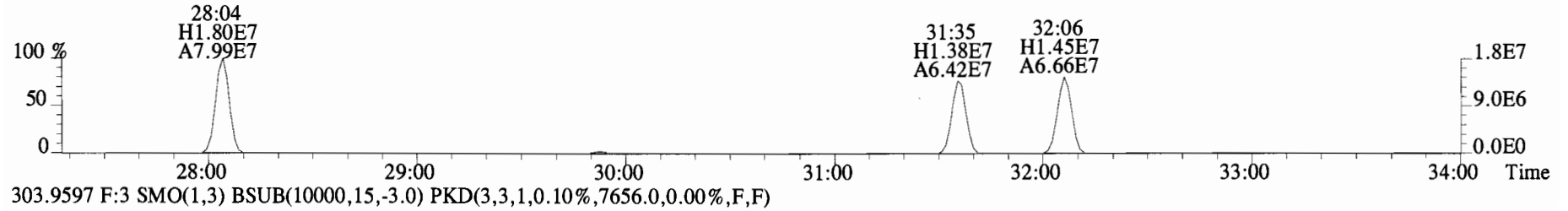
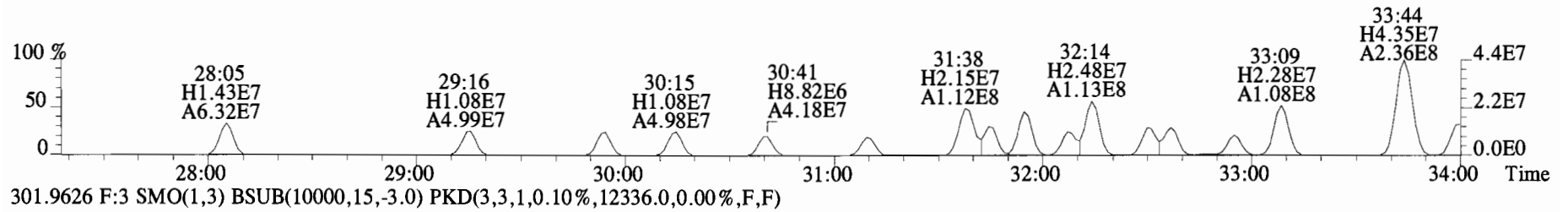
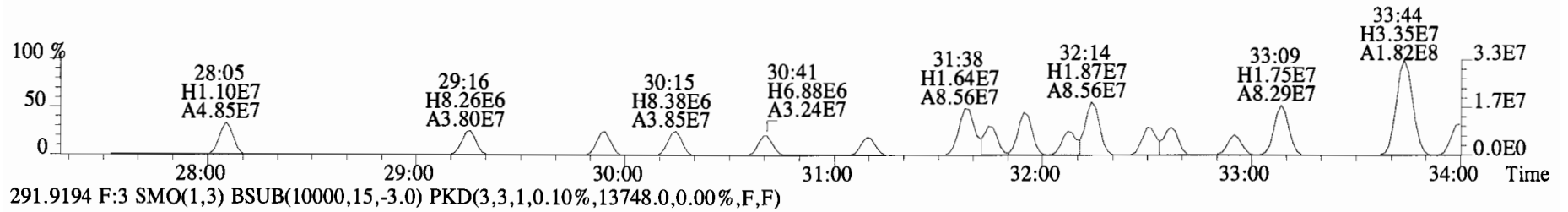
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
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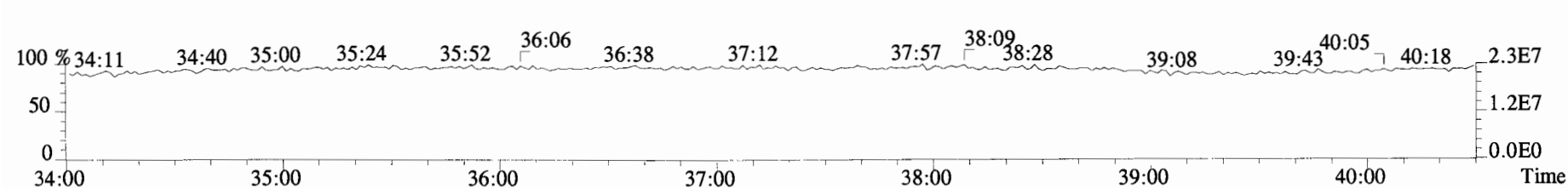
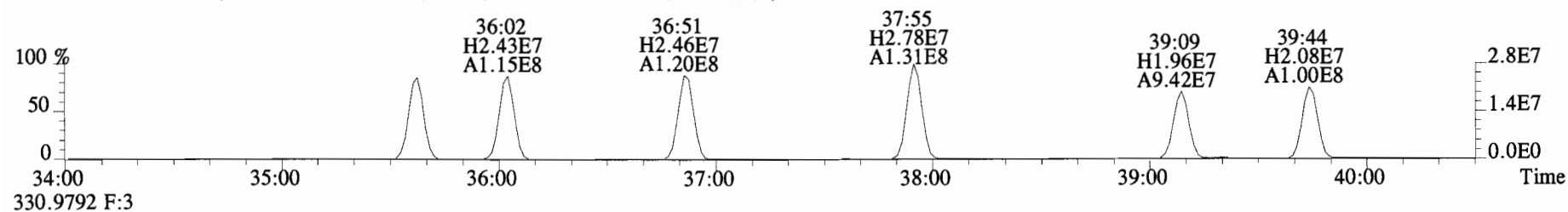
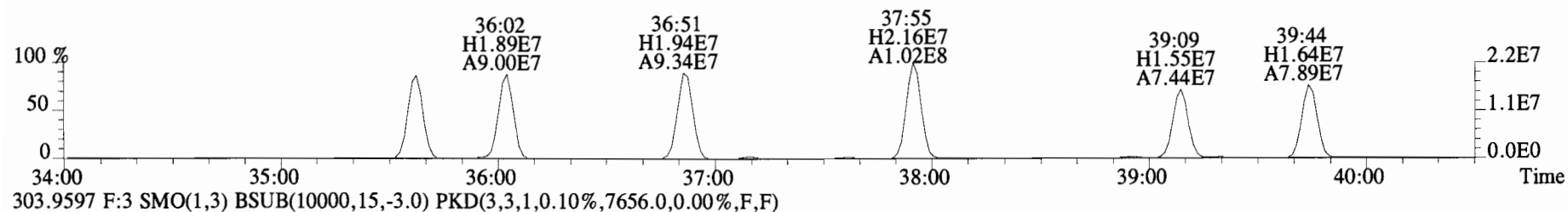
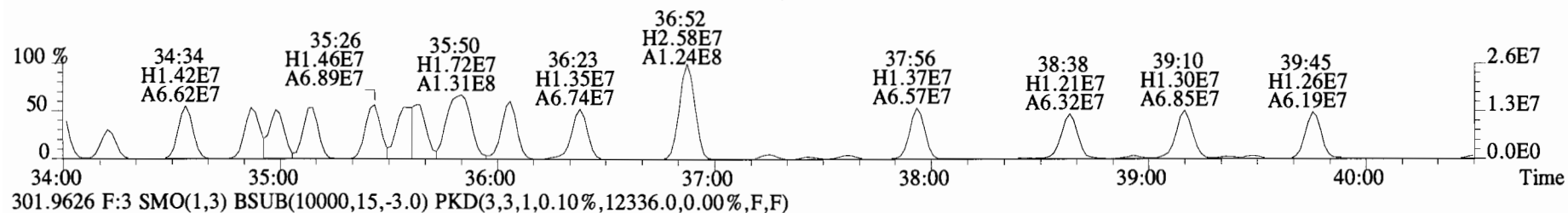
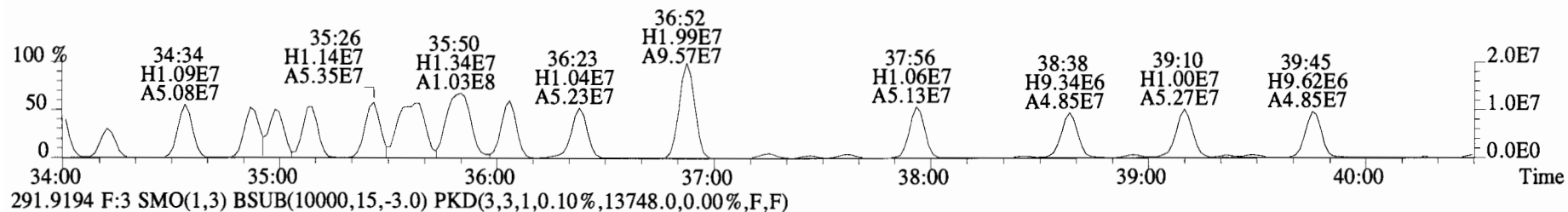
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
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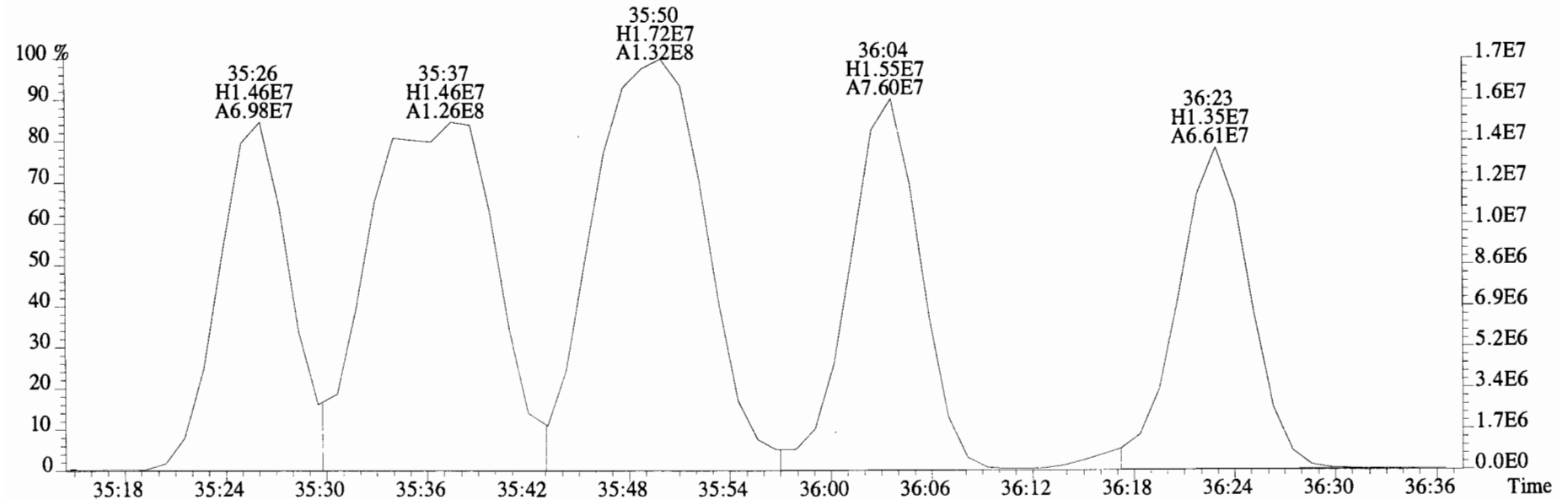
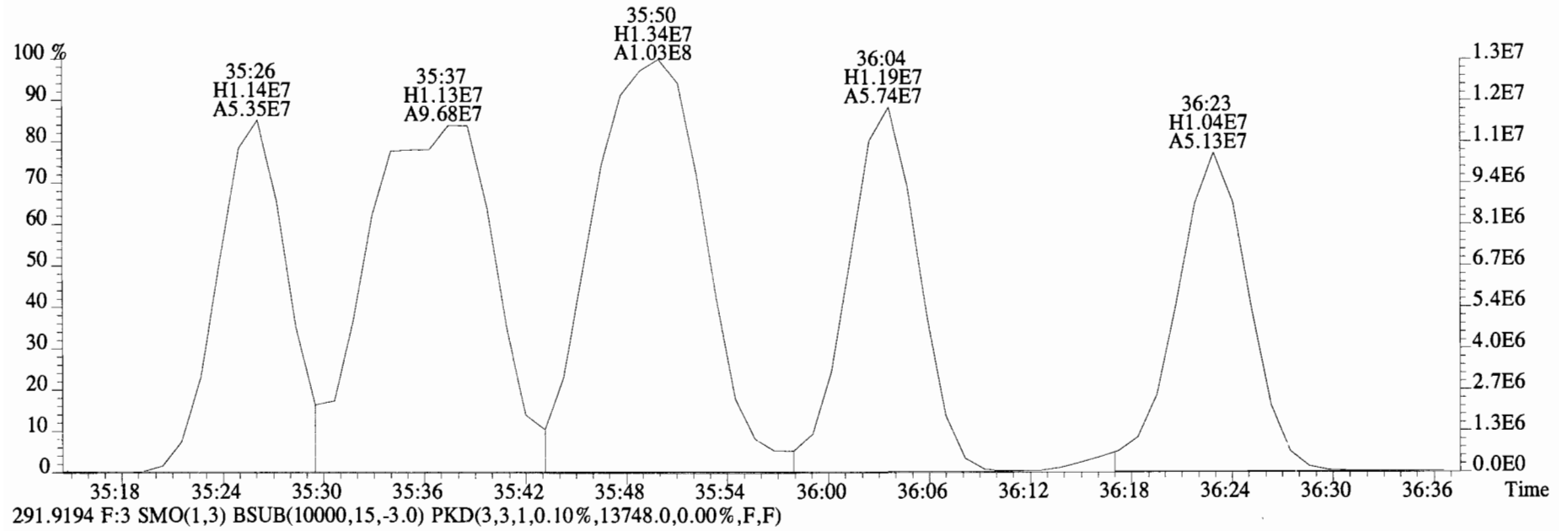
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9692.0,0.00%,F,F)



File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
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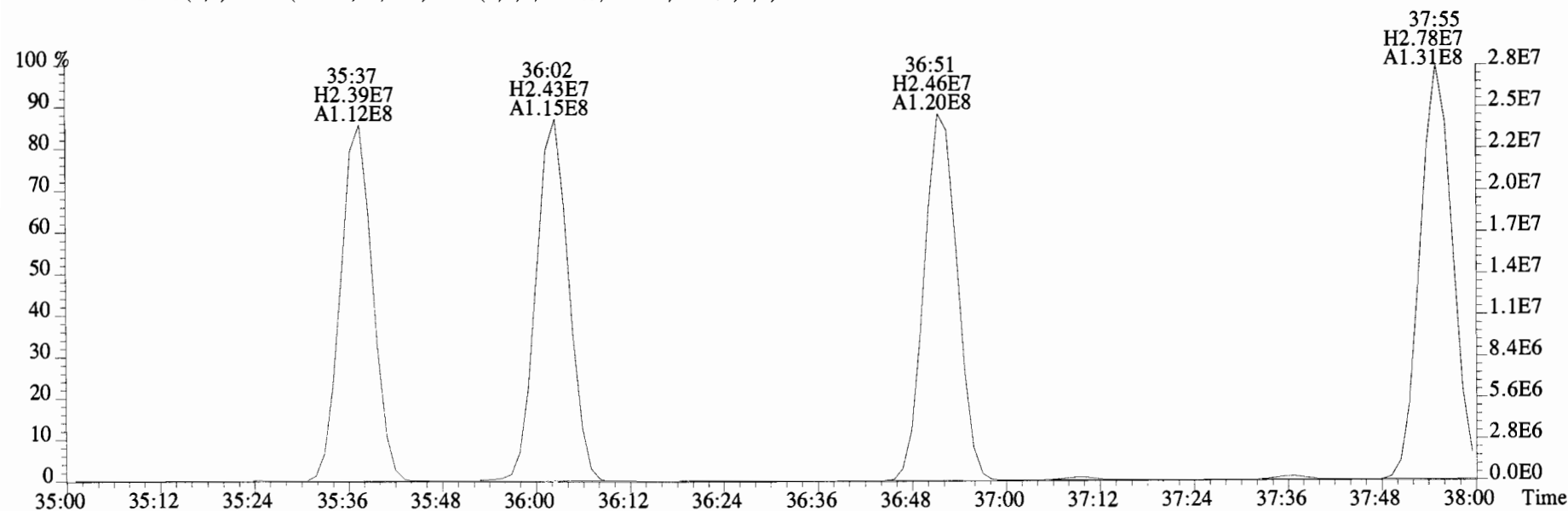
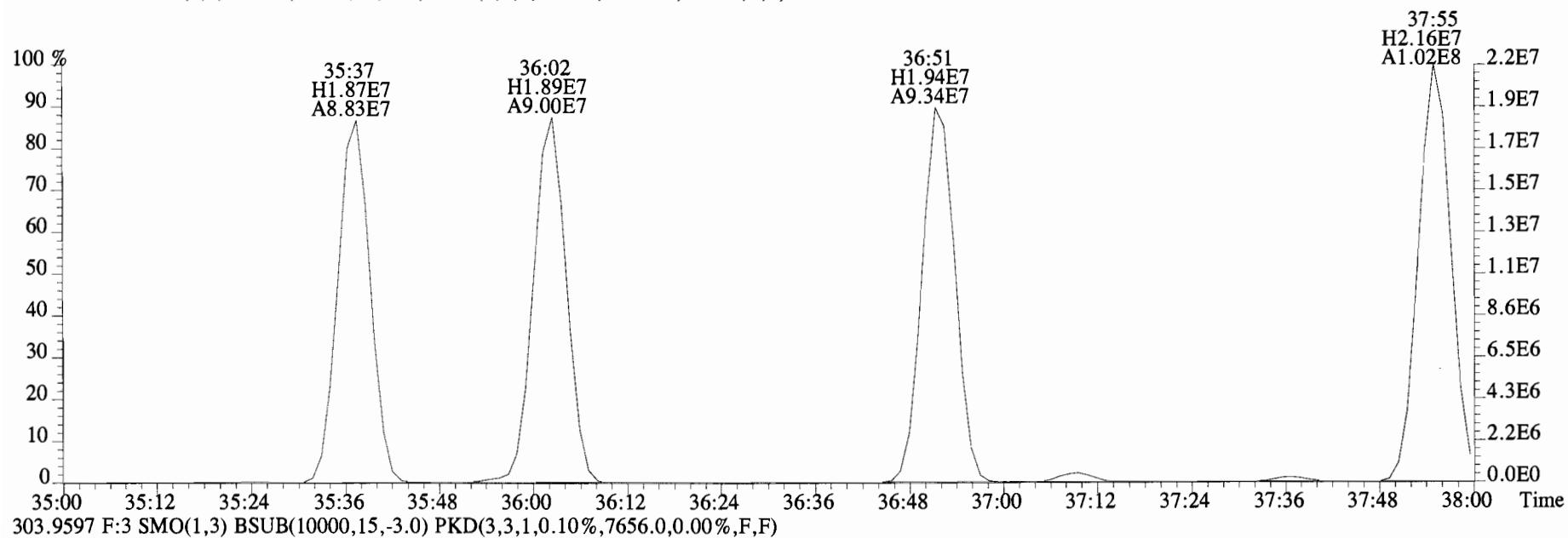


File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
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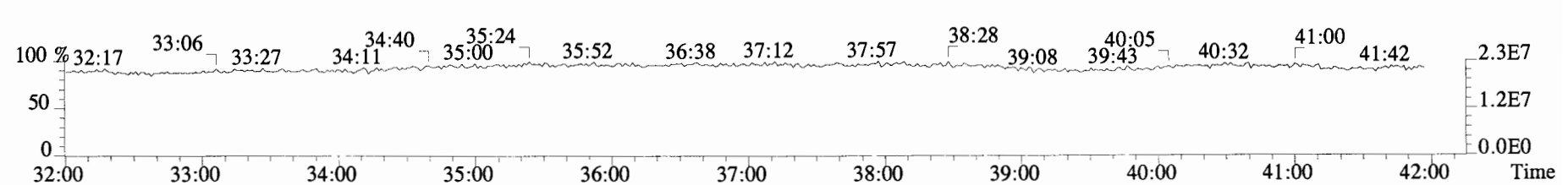
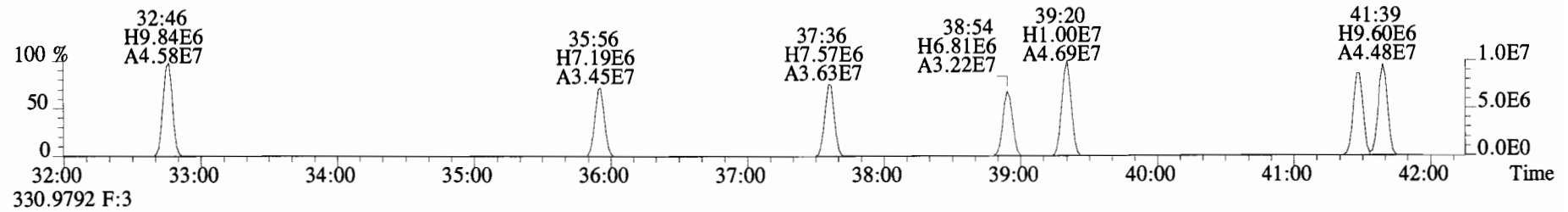
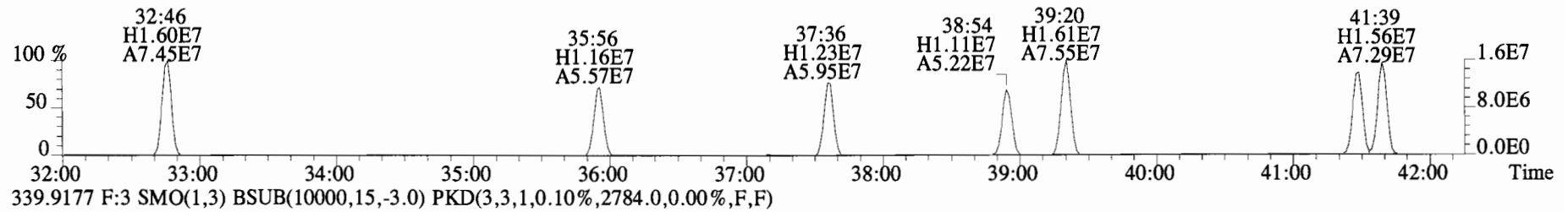
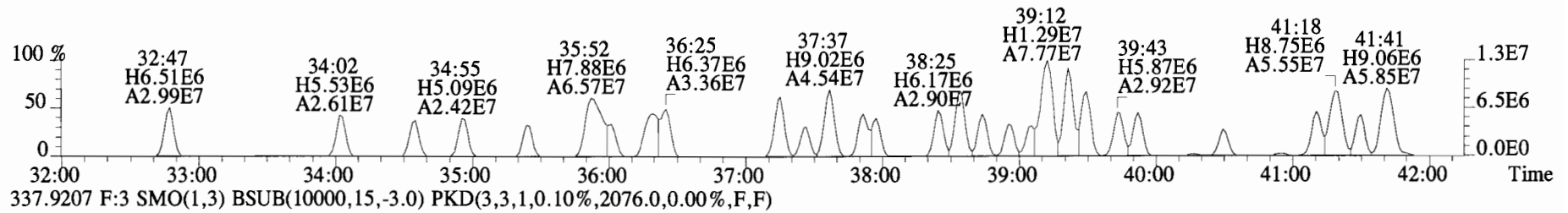
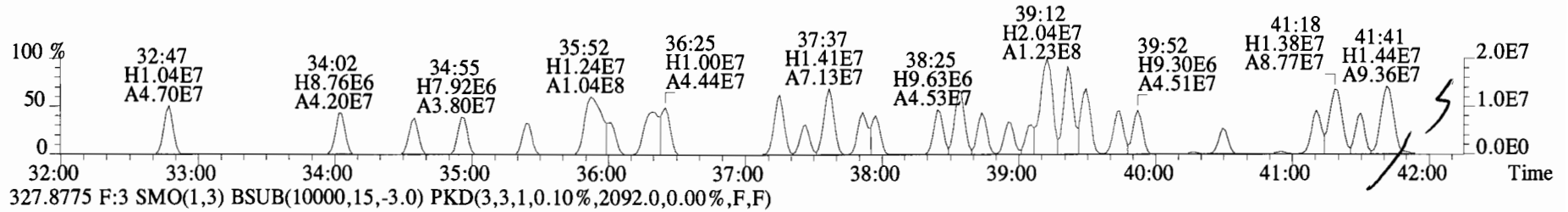




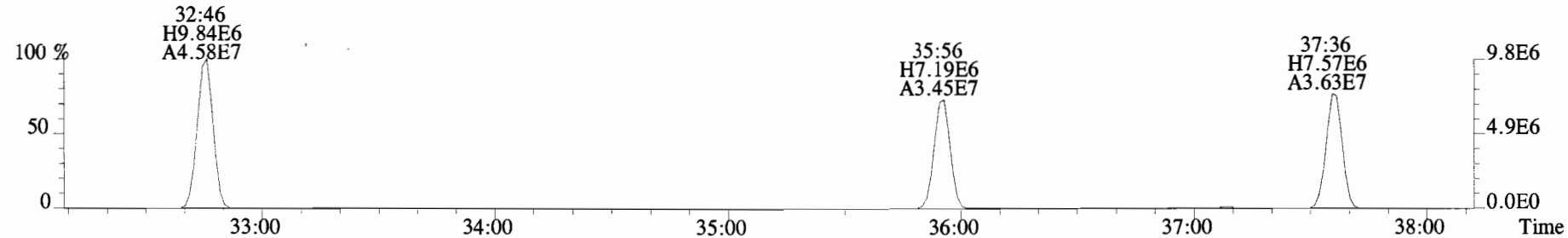
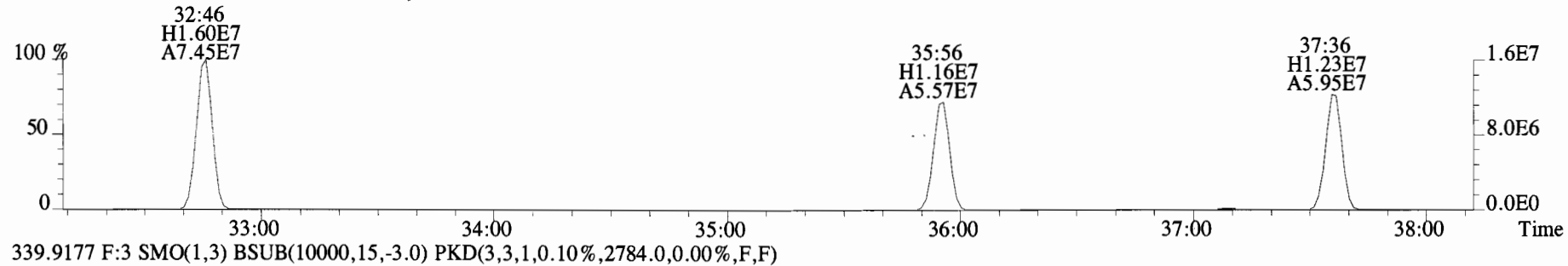
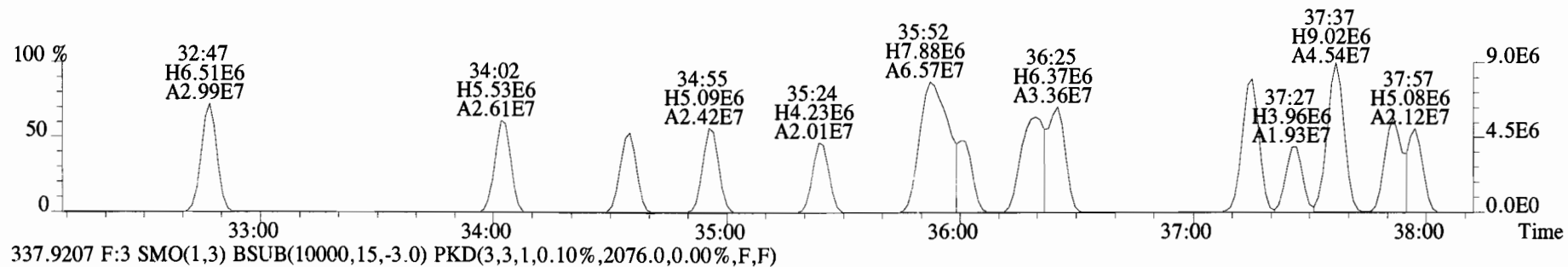
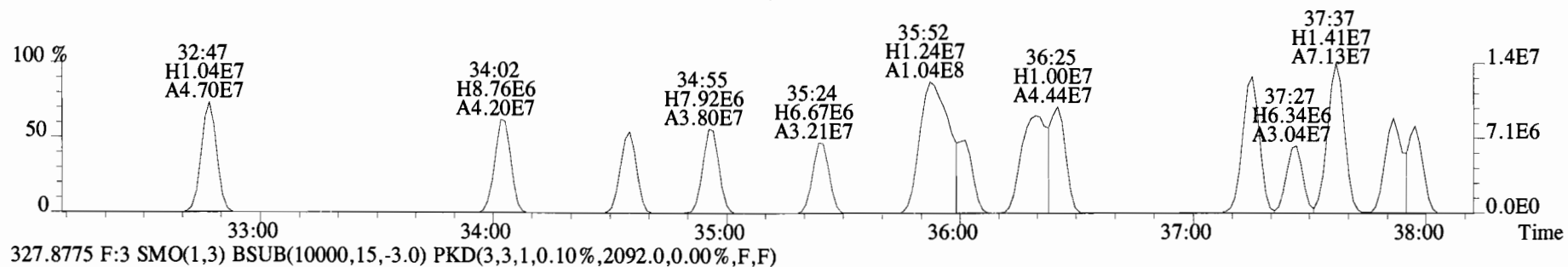
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
301.9626 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12336.0,0.00%,F,F)



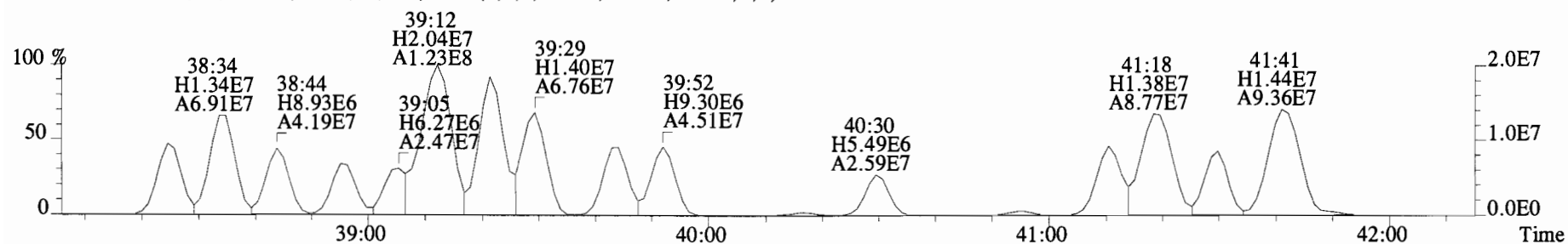
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1888.0,0.00%,F,F)



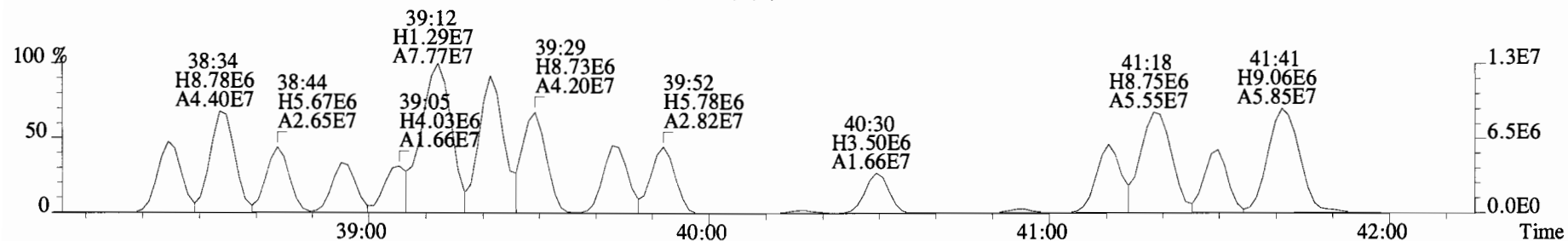
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Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
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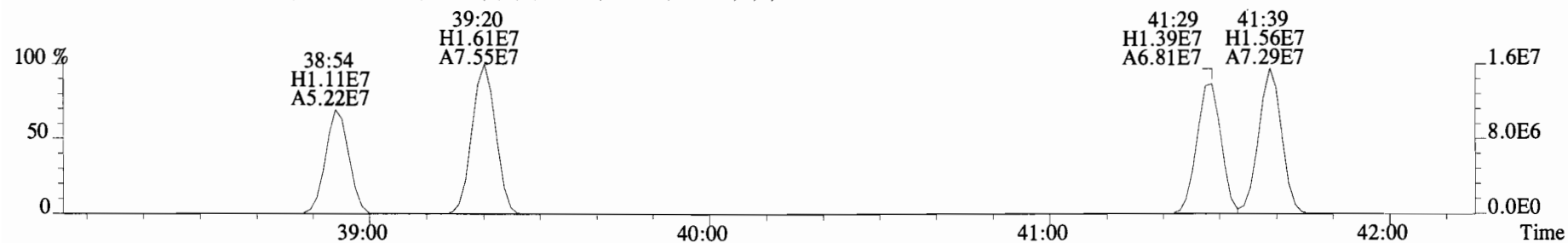
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Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1888.0,0.00%,F,F)



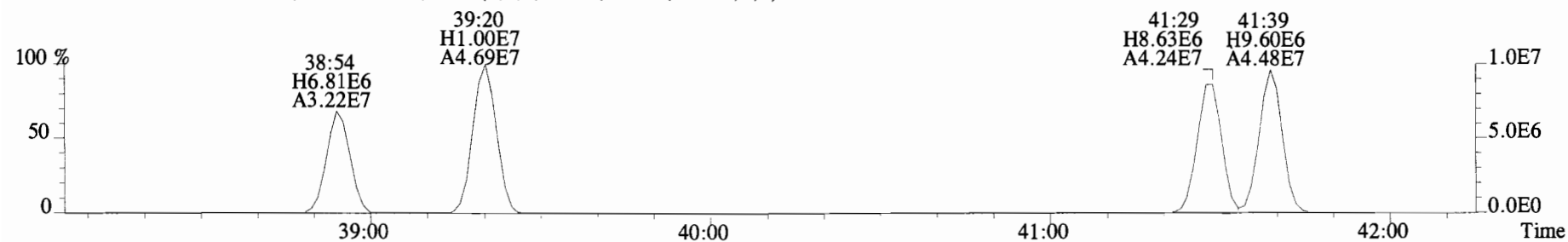
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



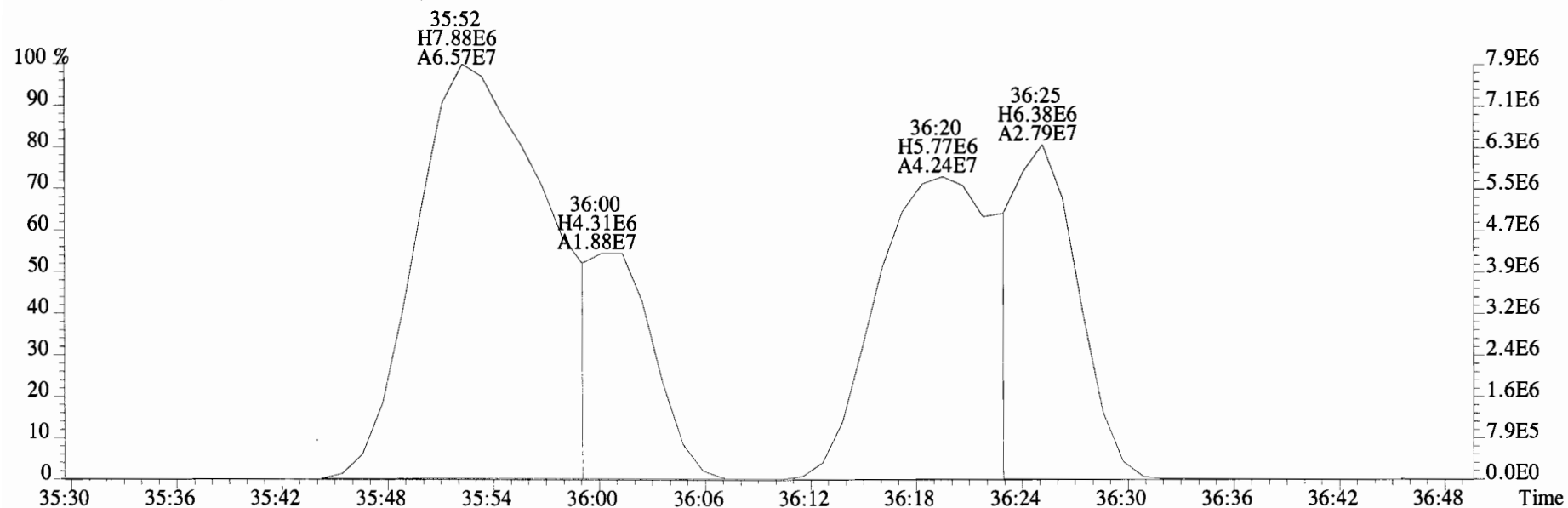
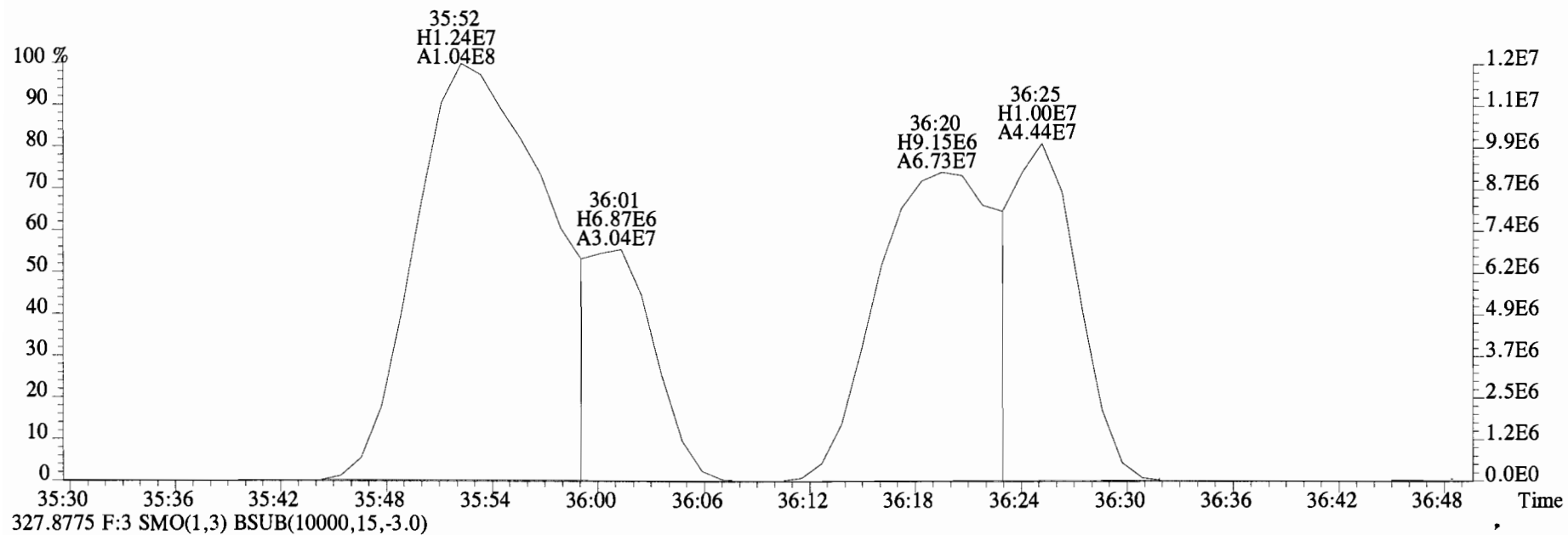
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



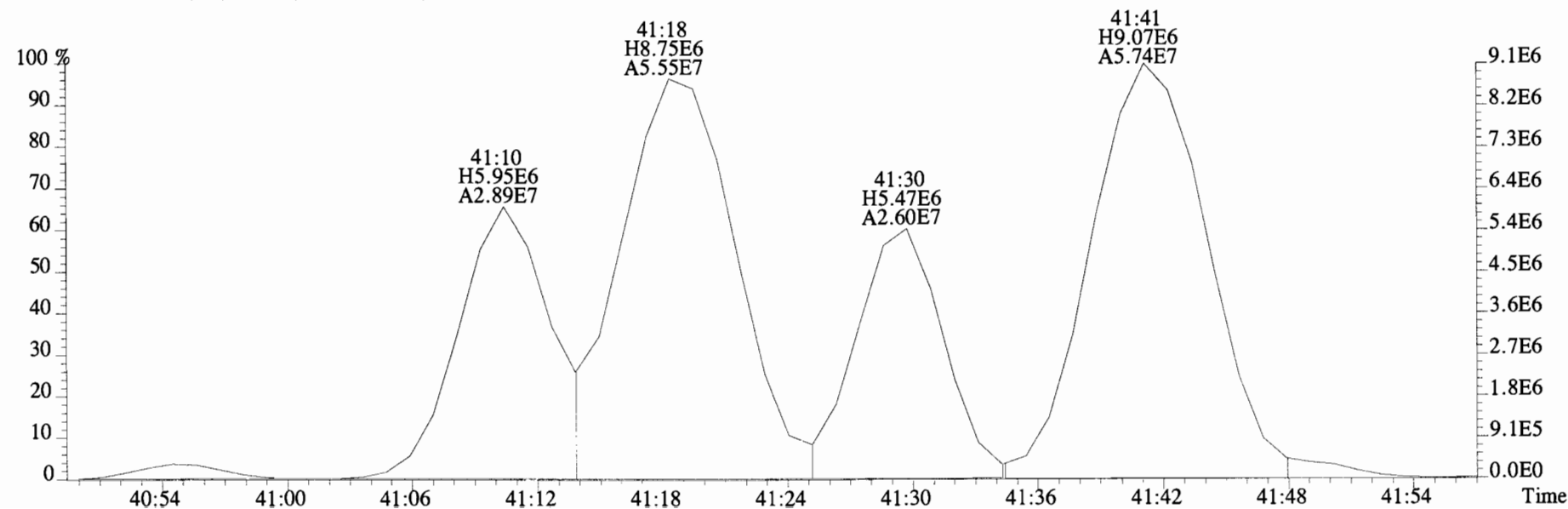
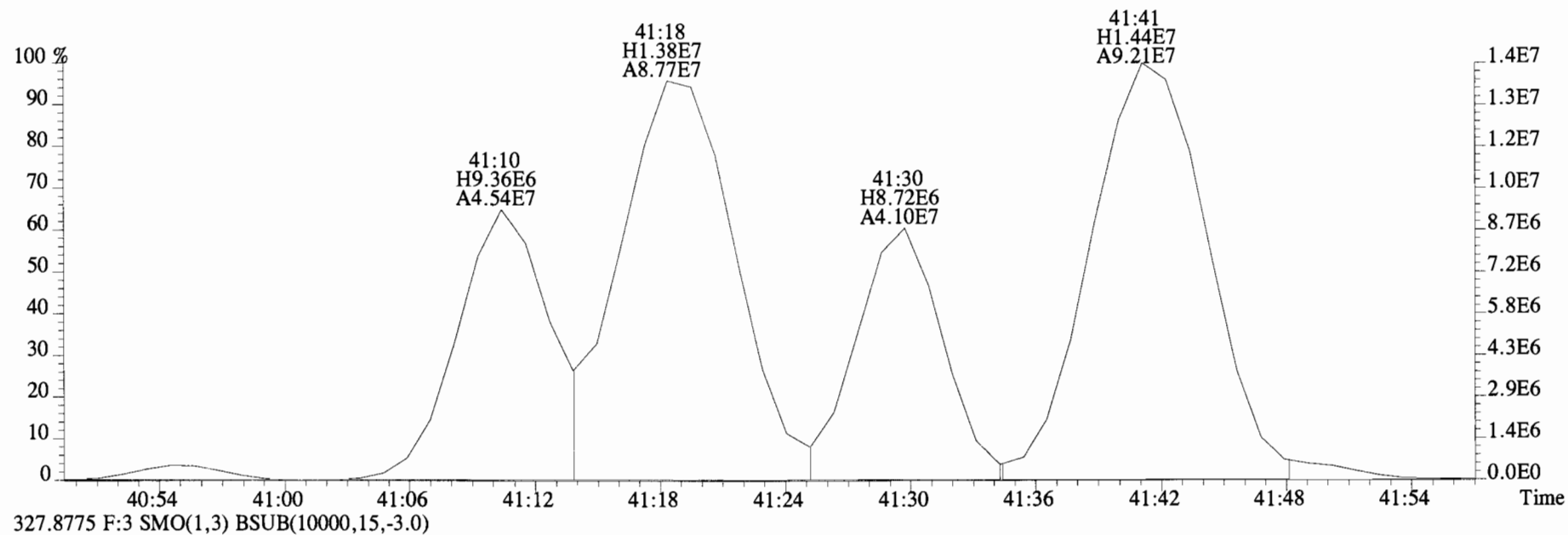
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



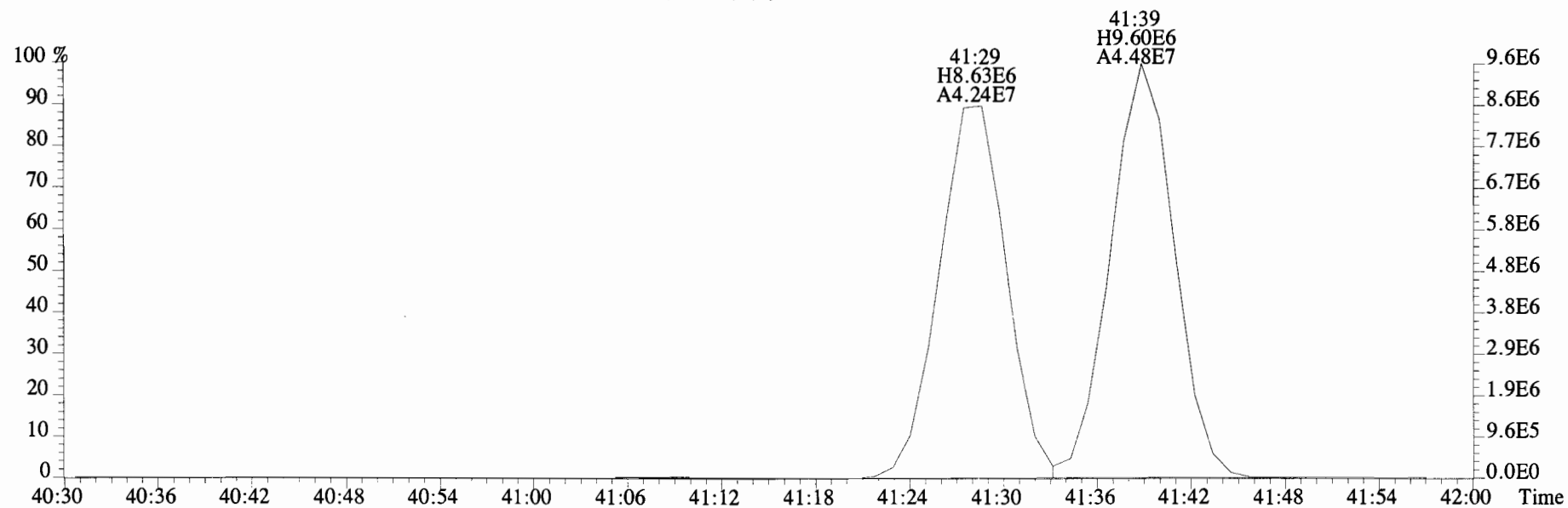
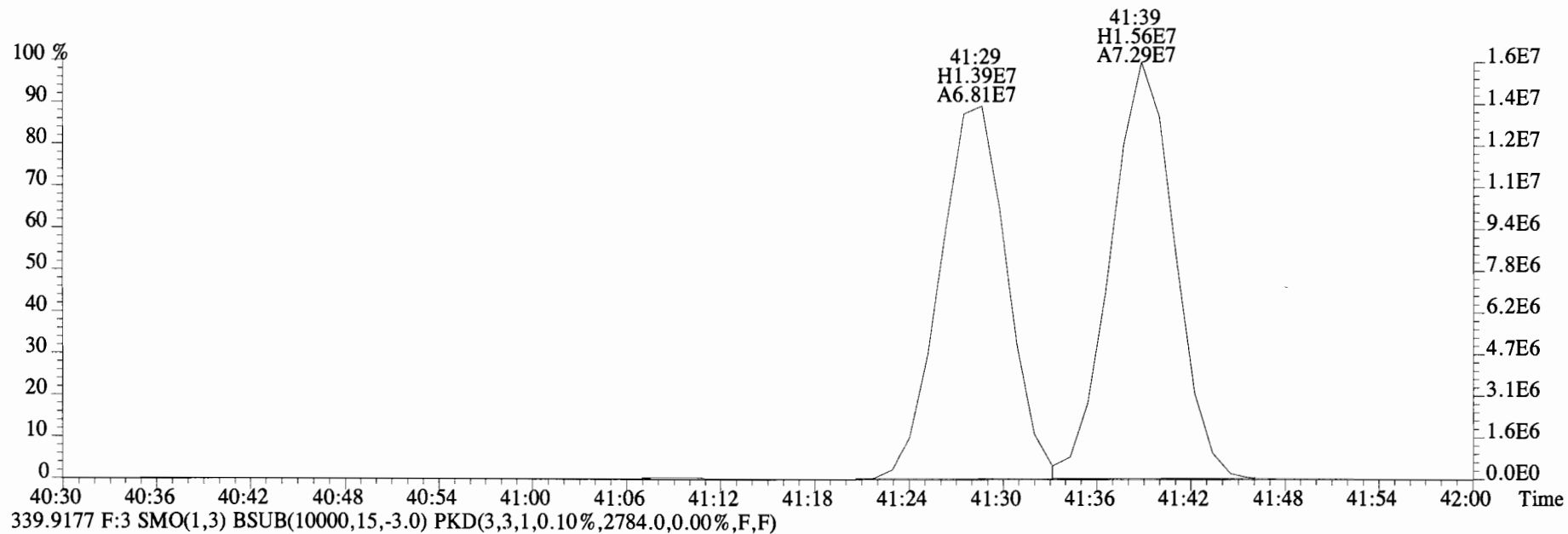
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0)



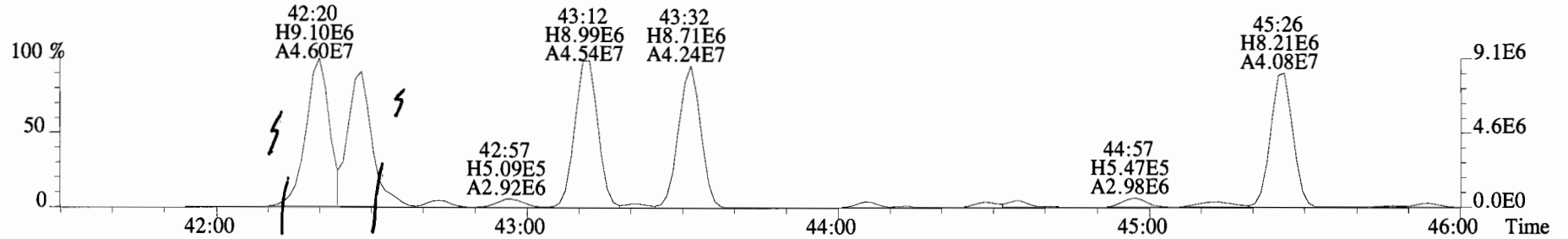
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Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0)



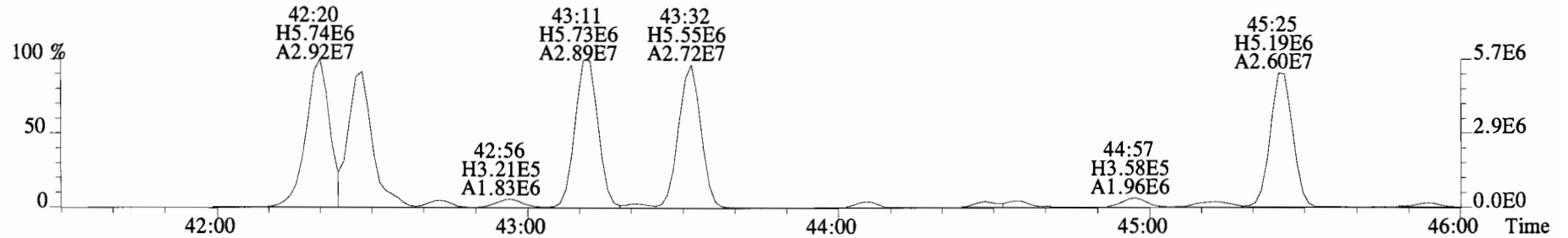
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



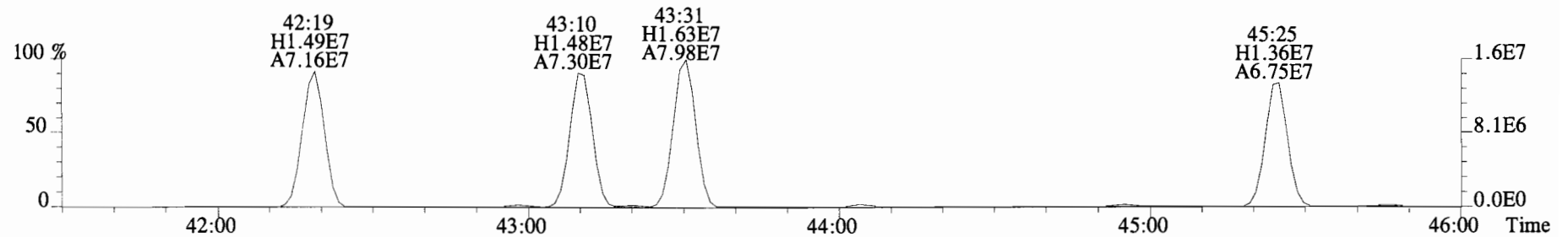
File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10668.0,0.00%,F,F)



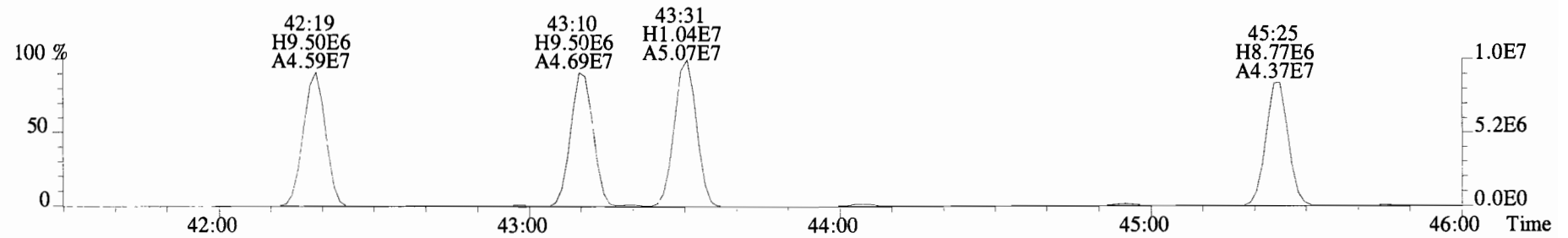
327.8775 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6524.0,0.00%,F,F)



337.9207 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6396.0,0.00%,F,F)

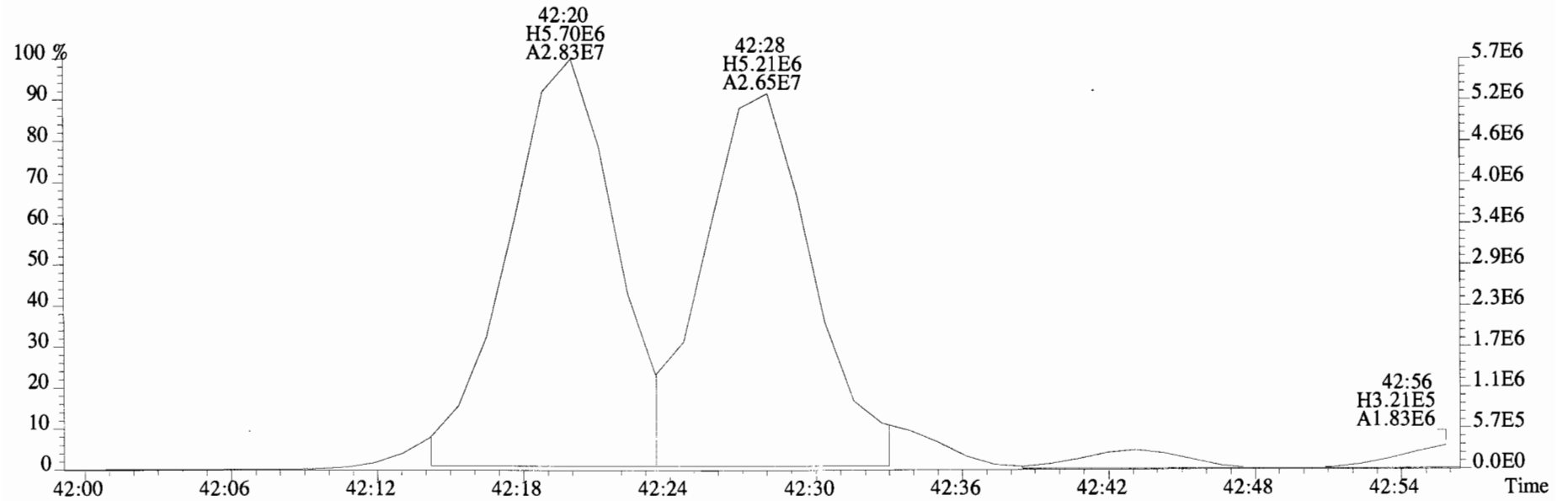
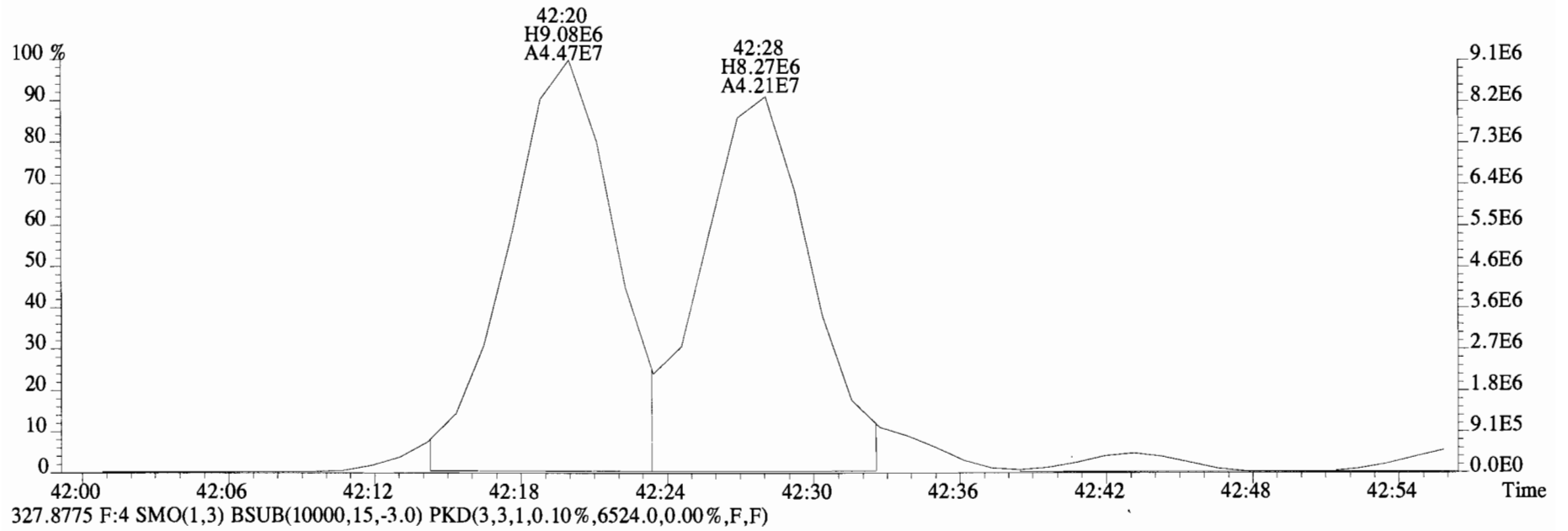


339.9177 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6720.0,0.00%,F,F)

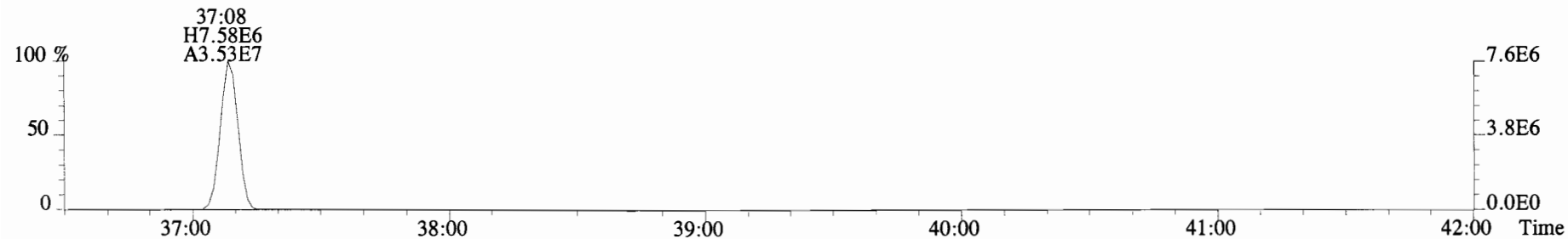
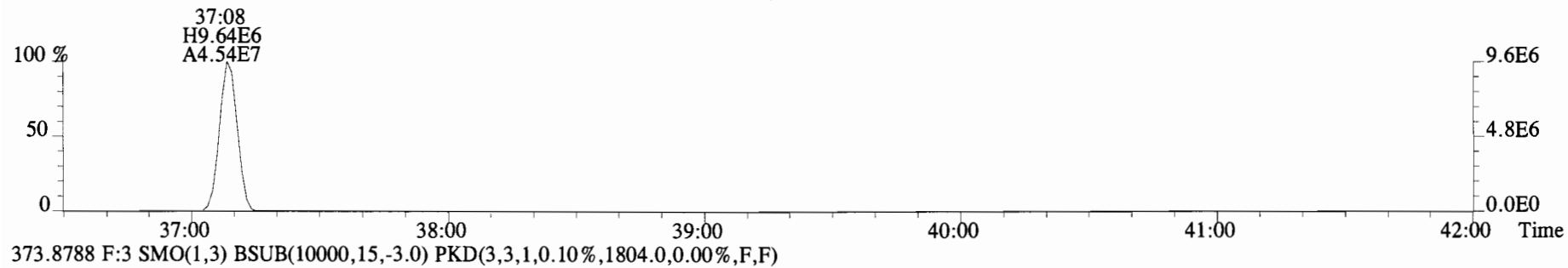
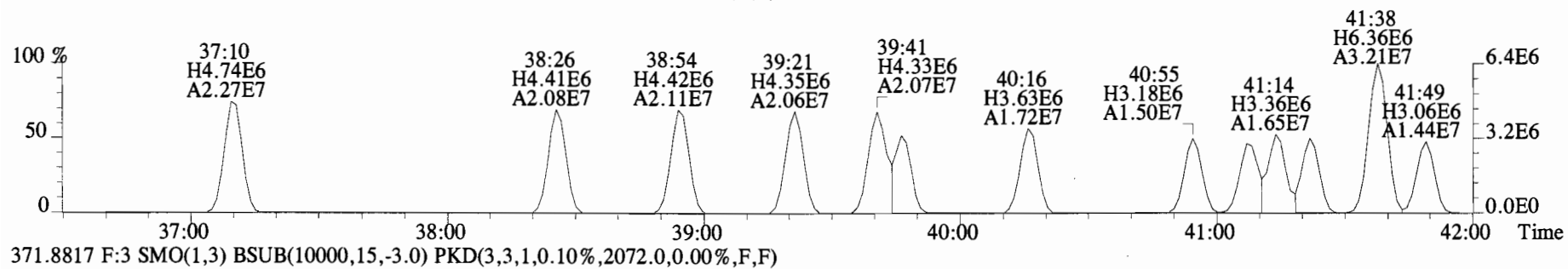
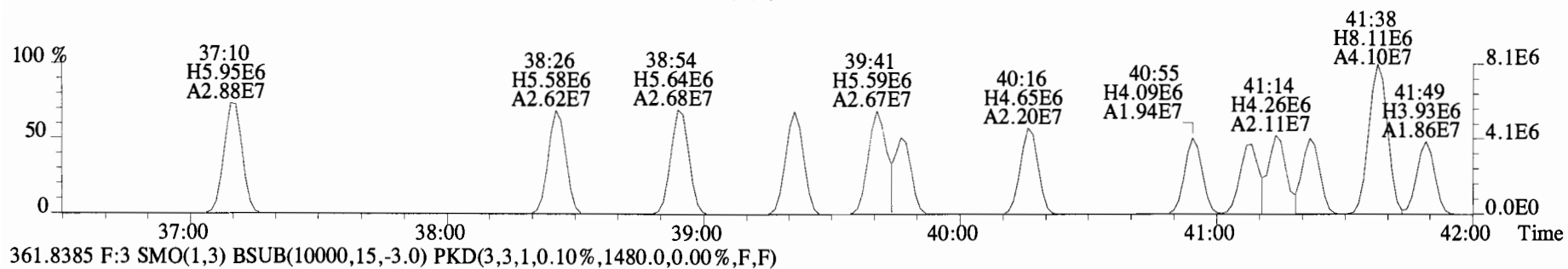




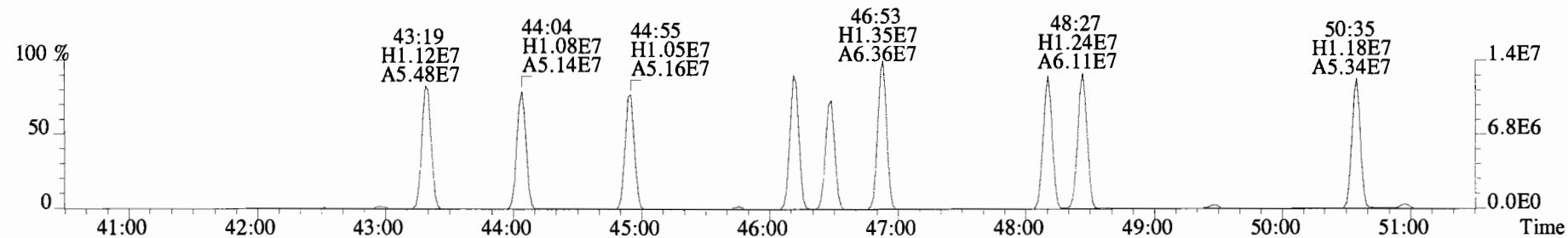
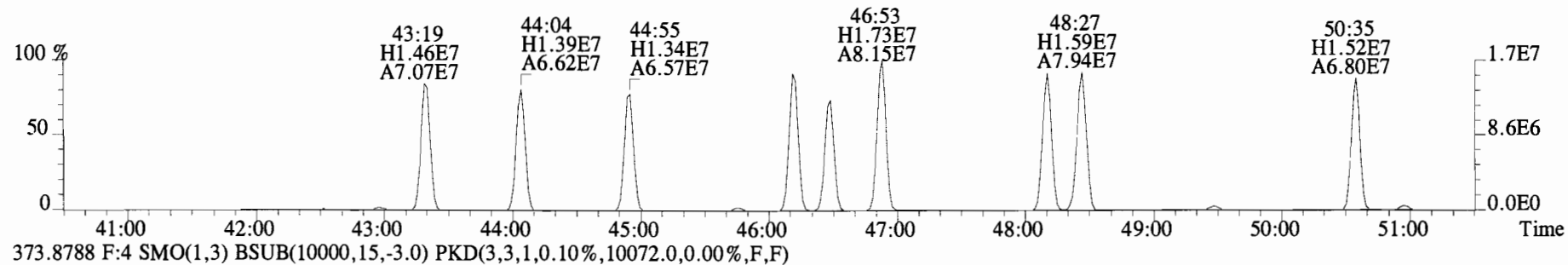
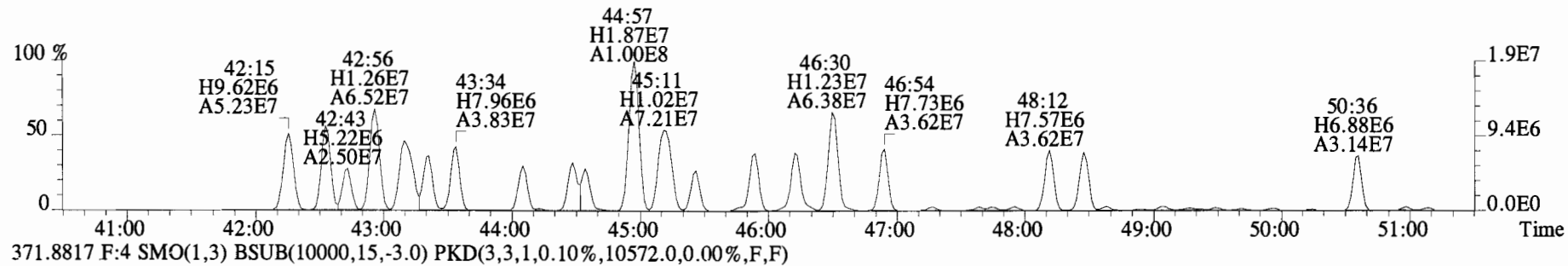
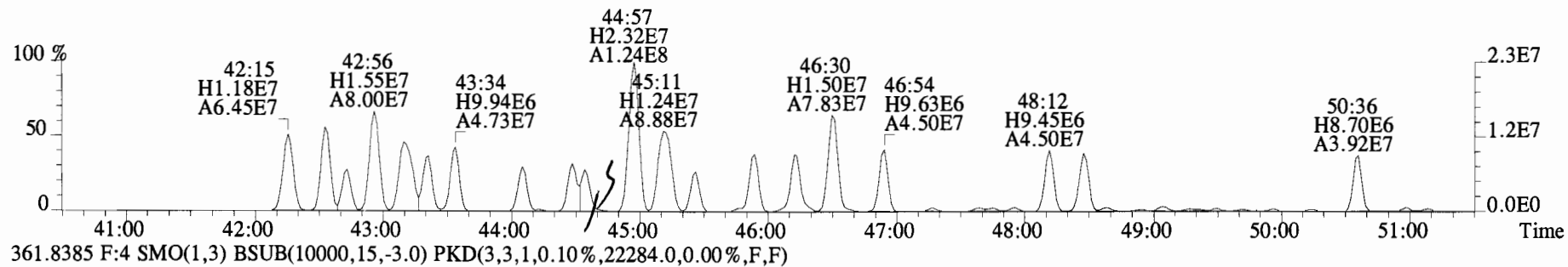
File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10668.0,0.00%,F,F)



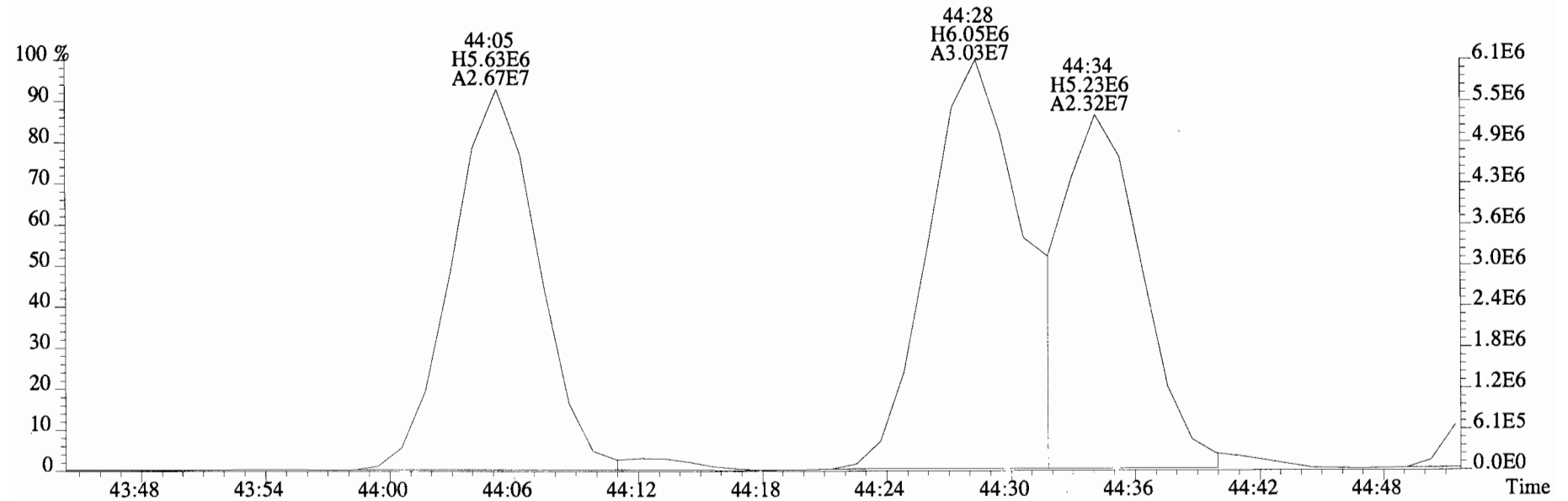
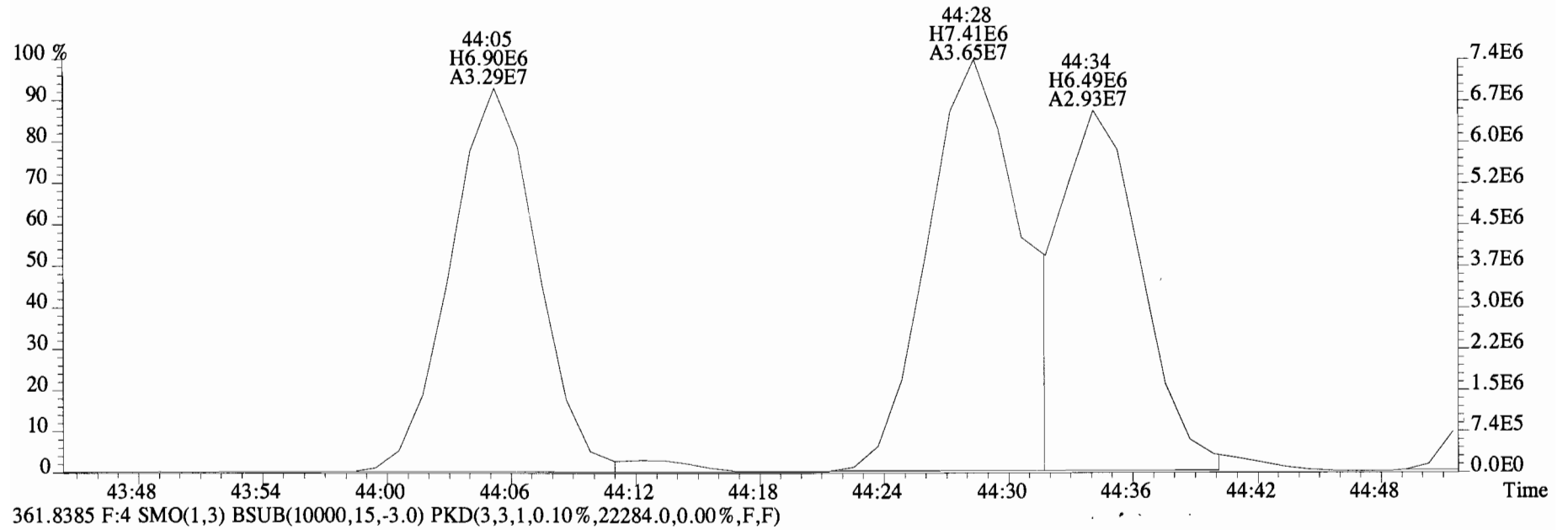
File:140925E1 #1-762 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



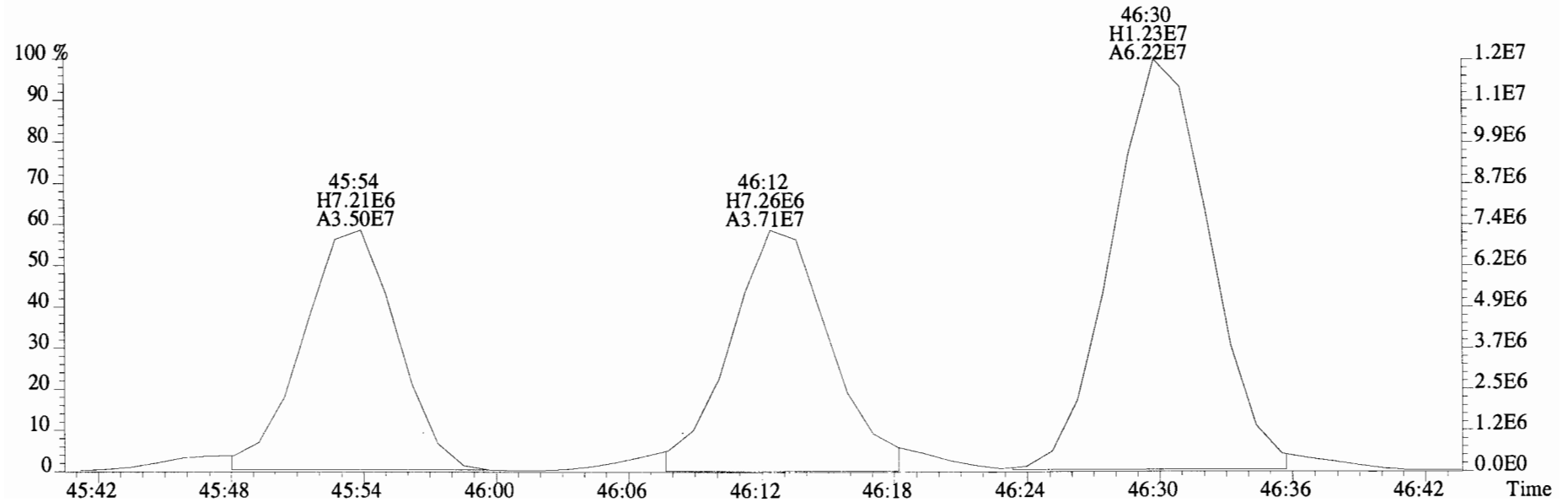
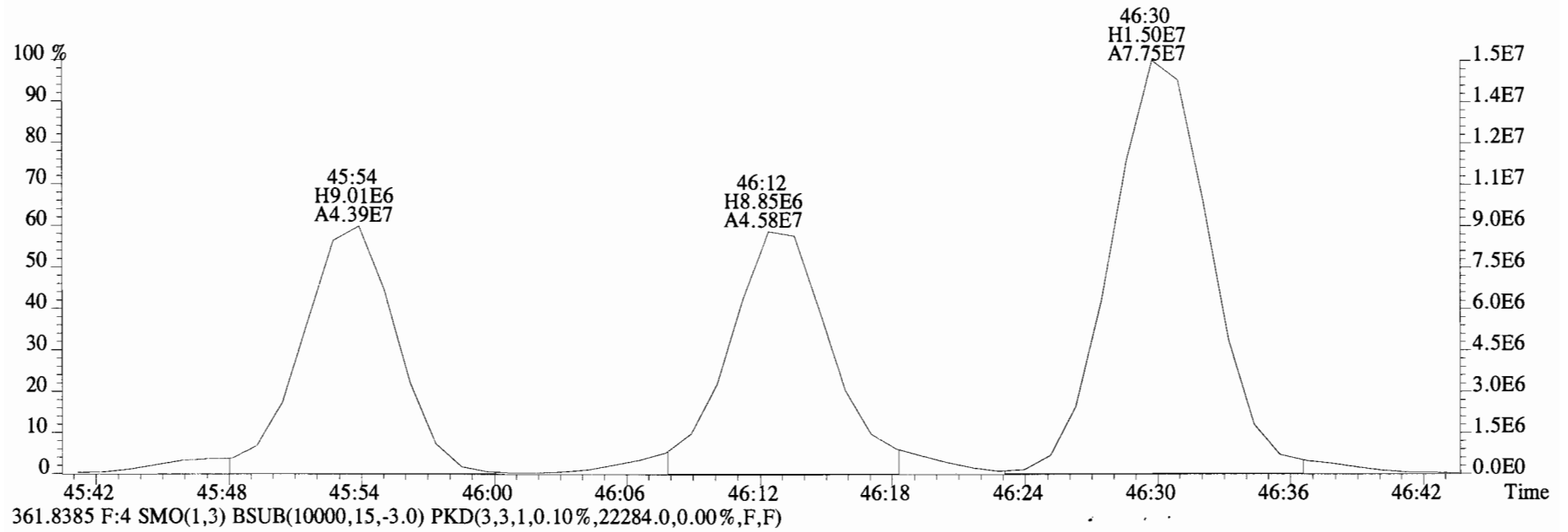
File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27340.0,0.00%,F,F)



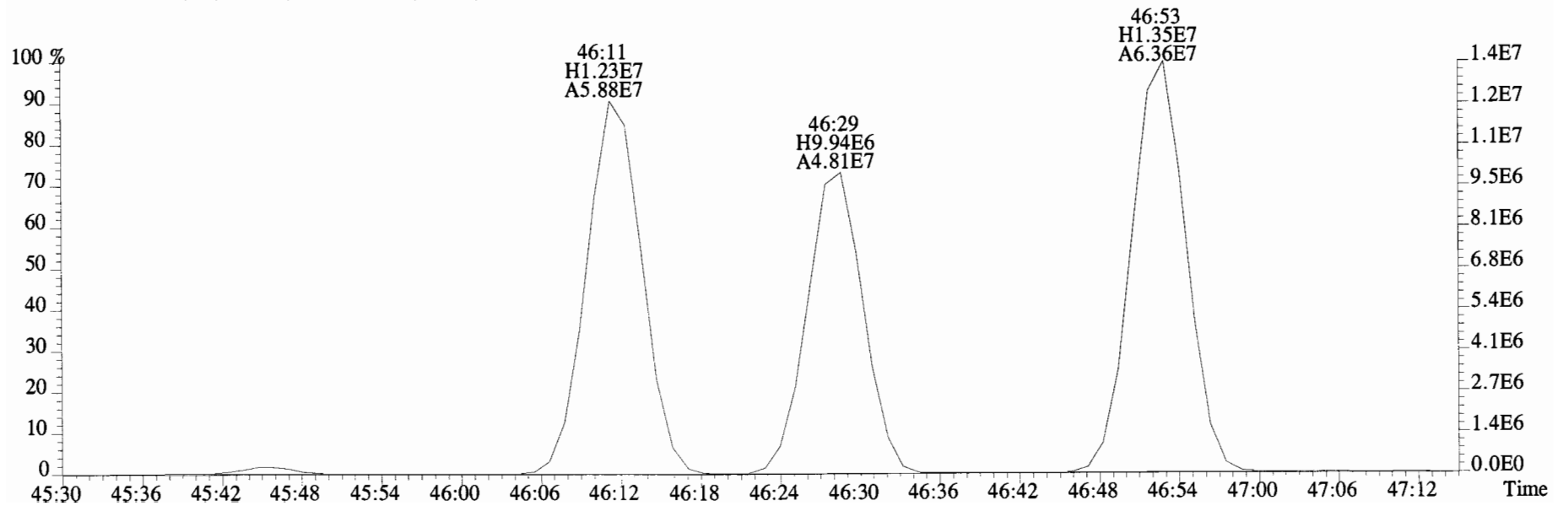
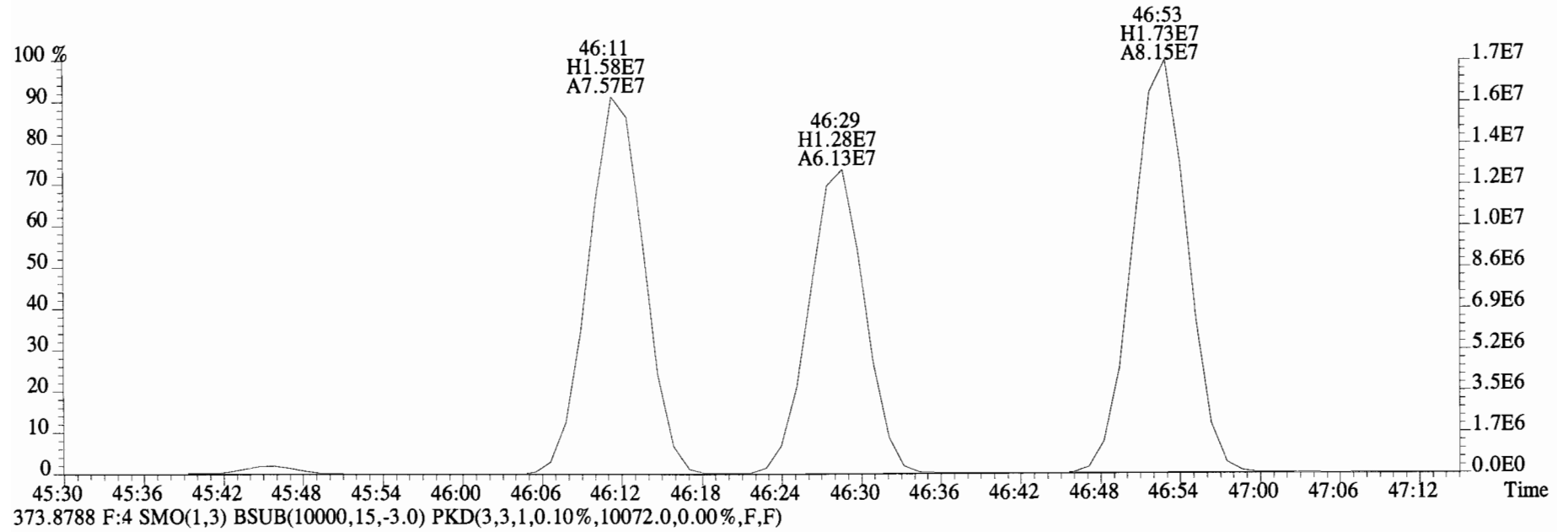
File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27340.0,0.00%,F,F)



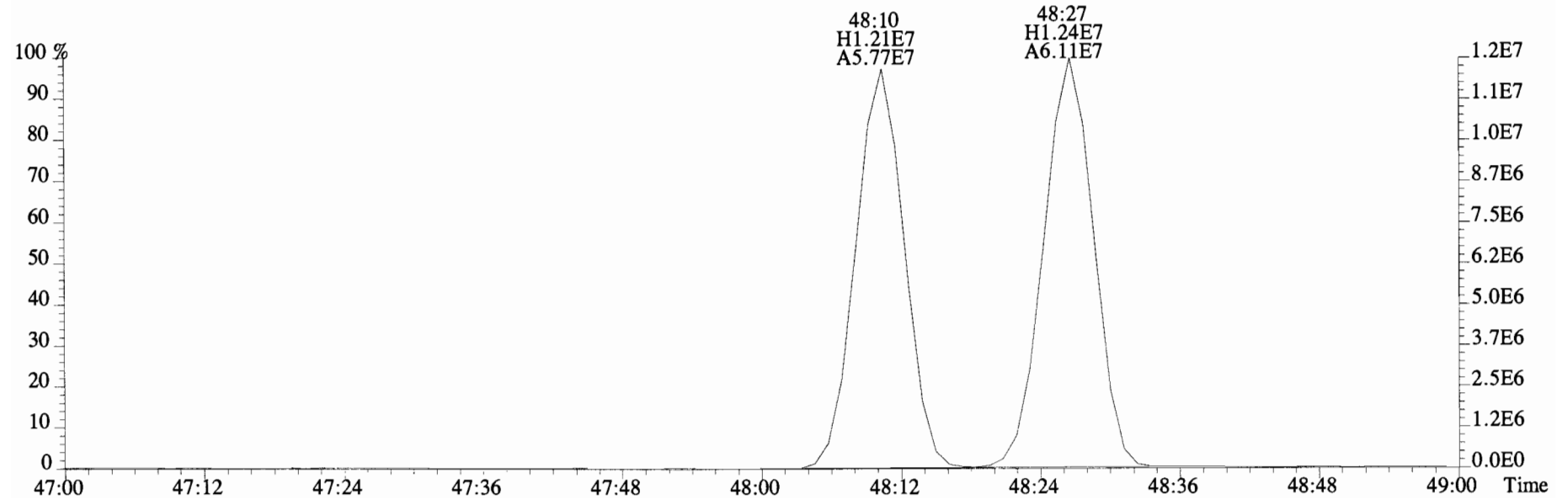
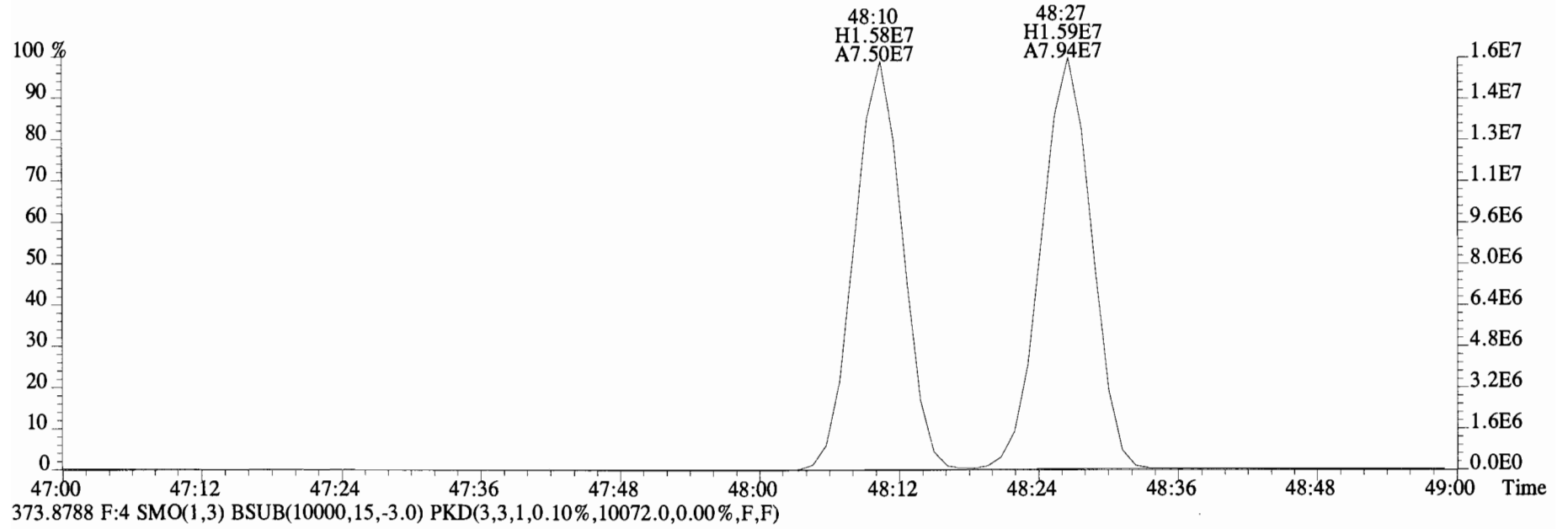
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Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
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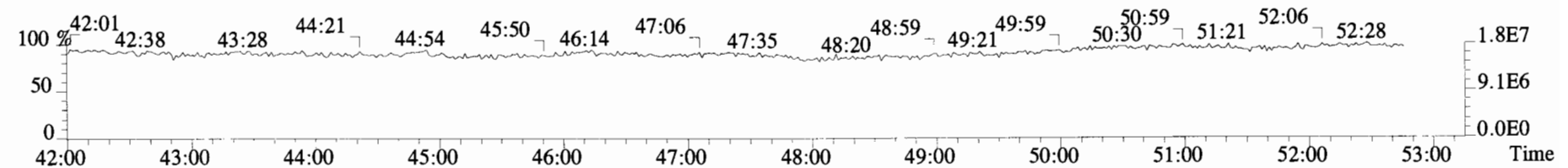
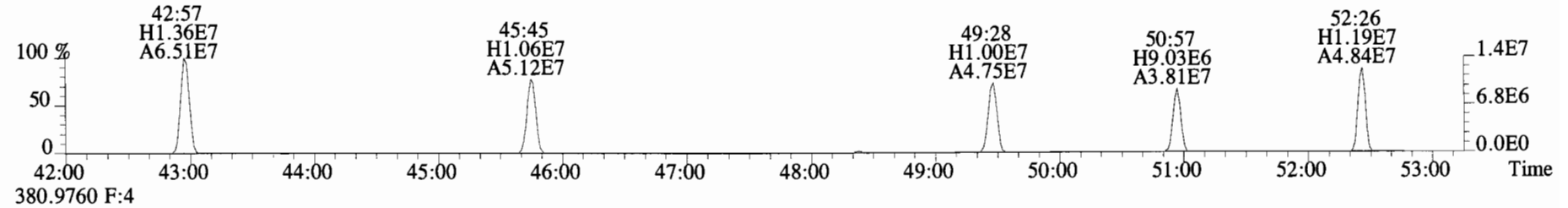
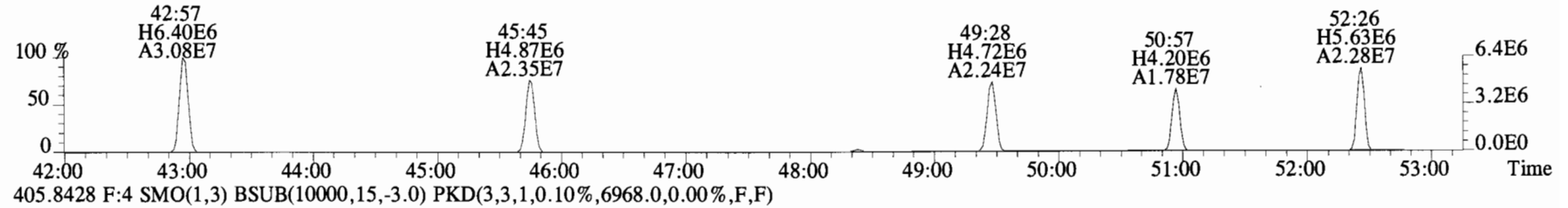
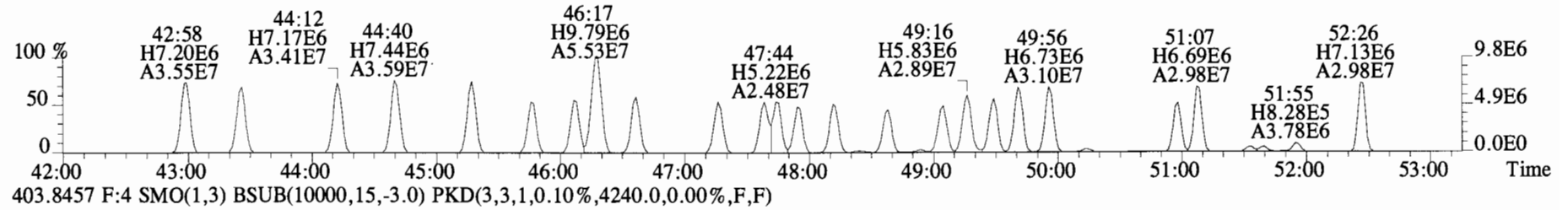
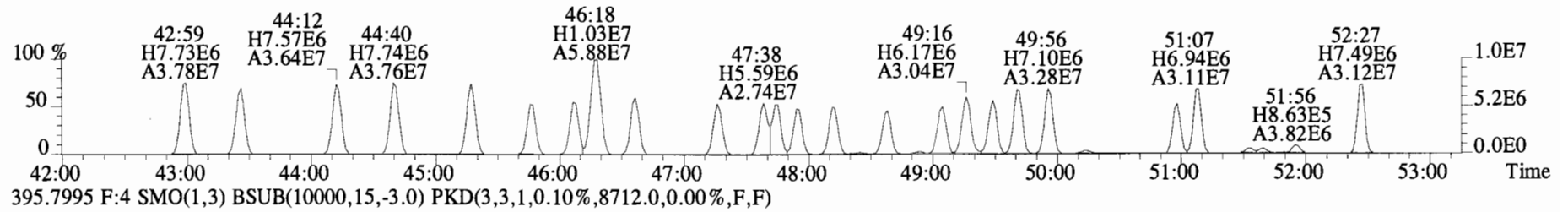
File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10572.0,0.00%,F,F)



File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10572.0,0.00%,F,F)

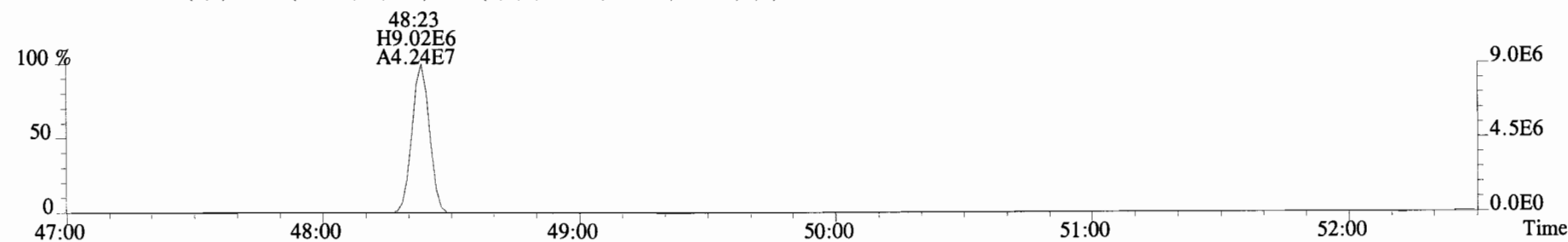
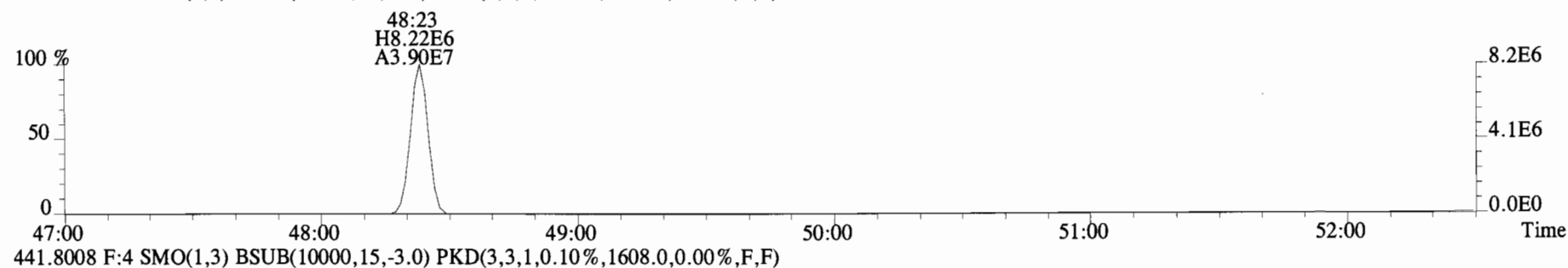
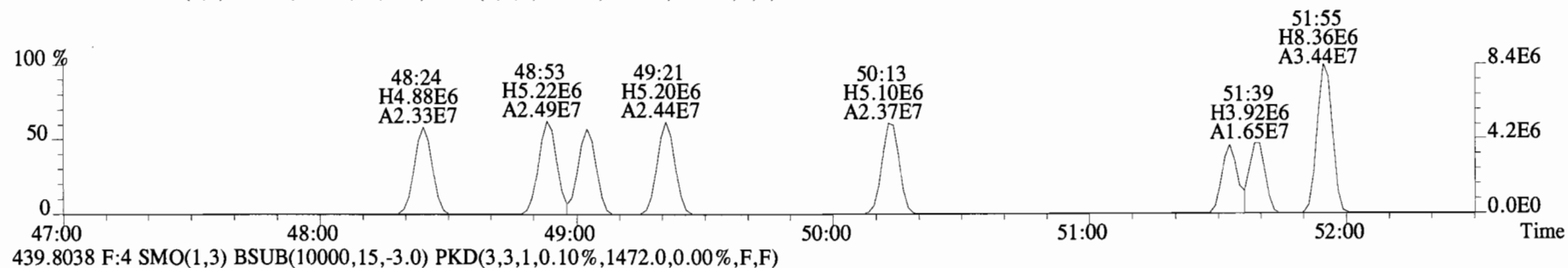
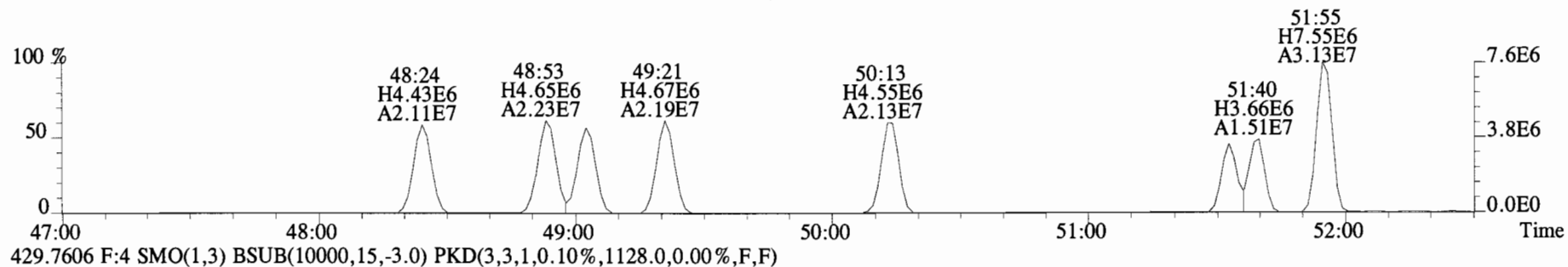


File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23460.0,0.00%,F,F)

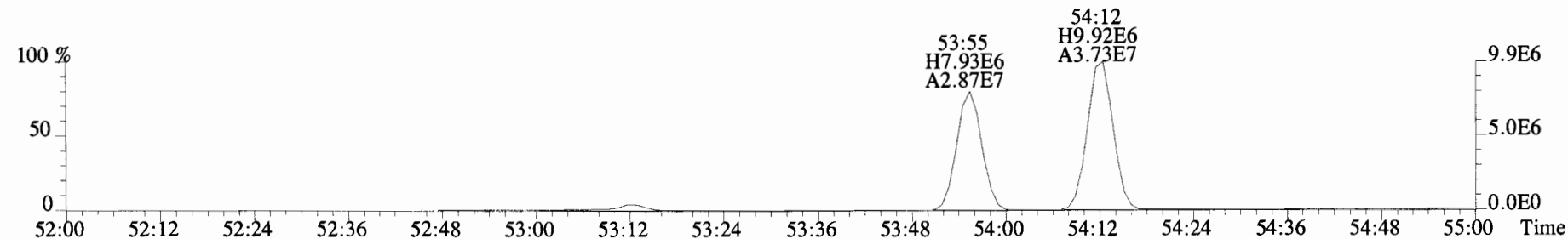
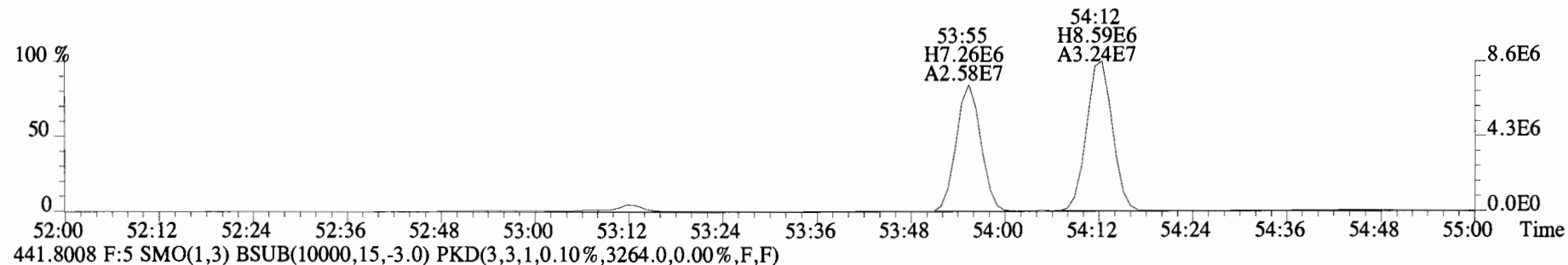
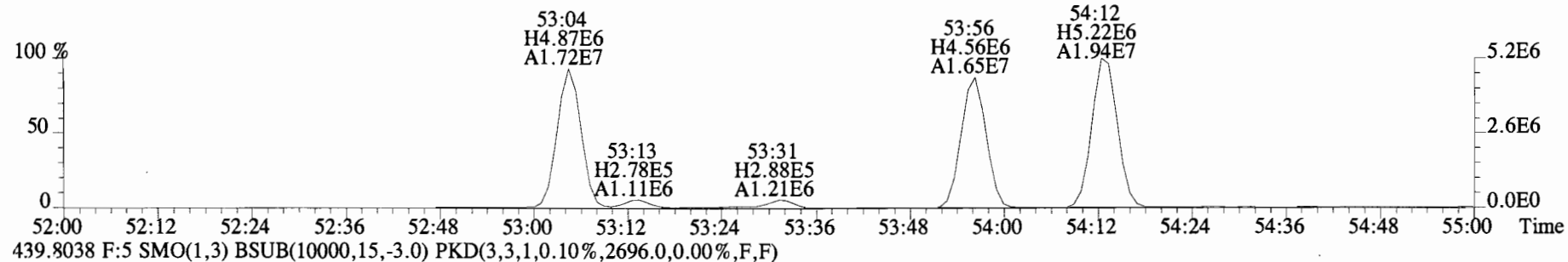
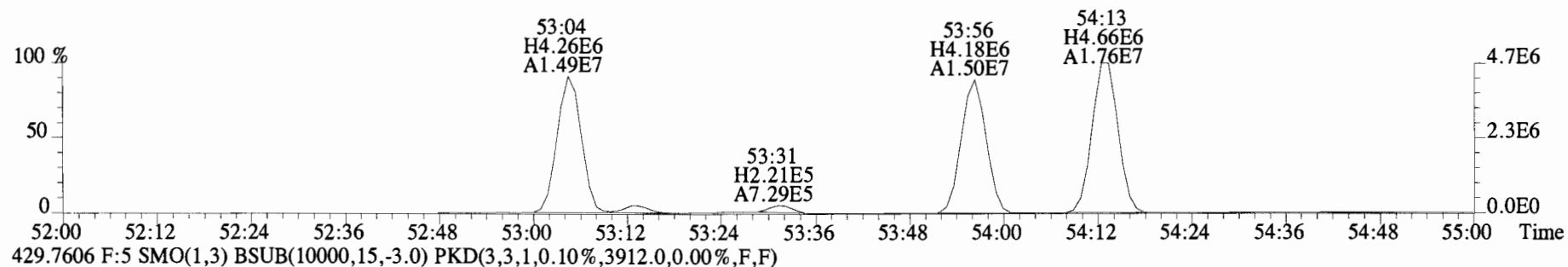




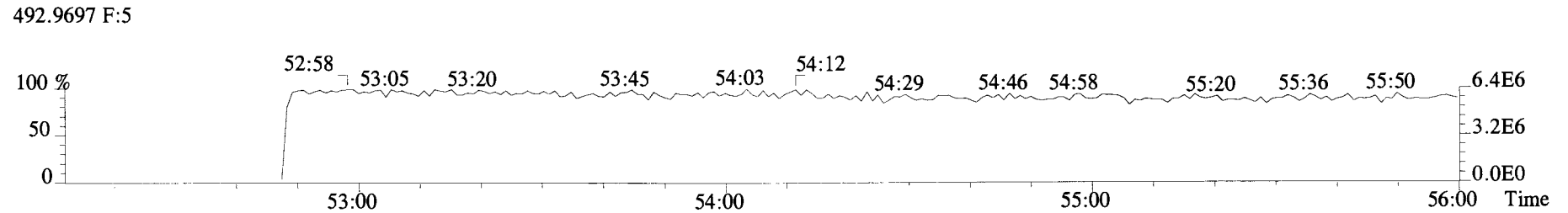
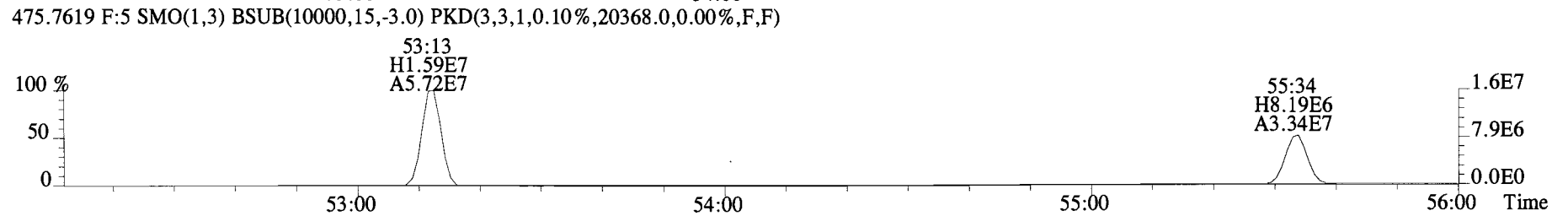
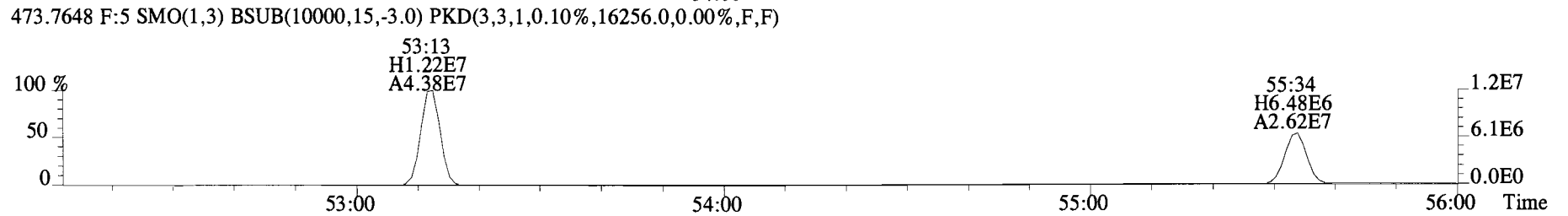
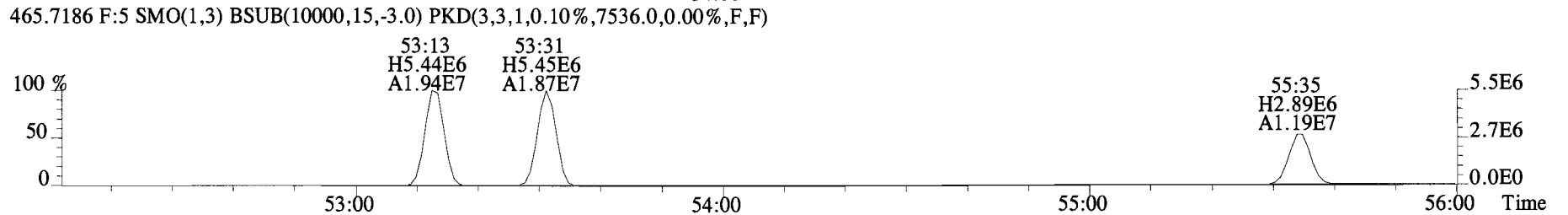
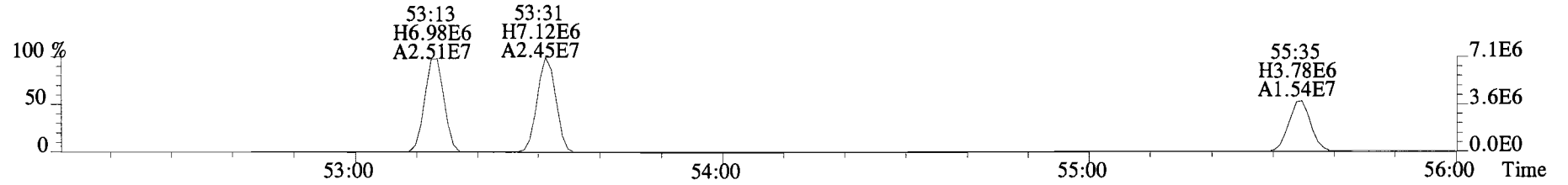
File:140925E1 #1-560 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1324.0,0.00%,F,F)



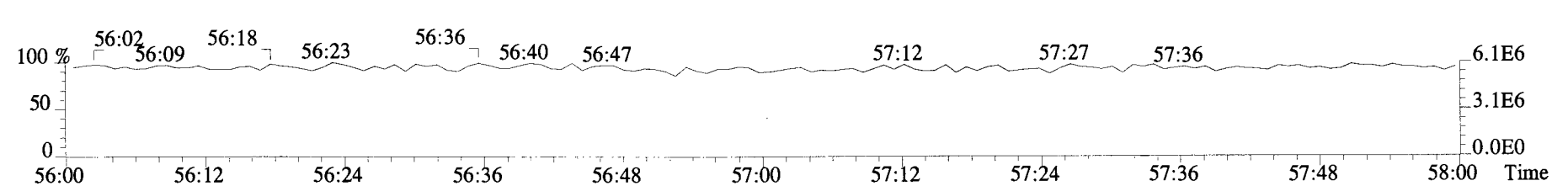
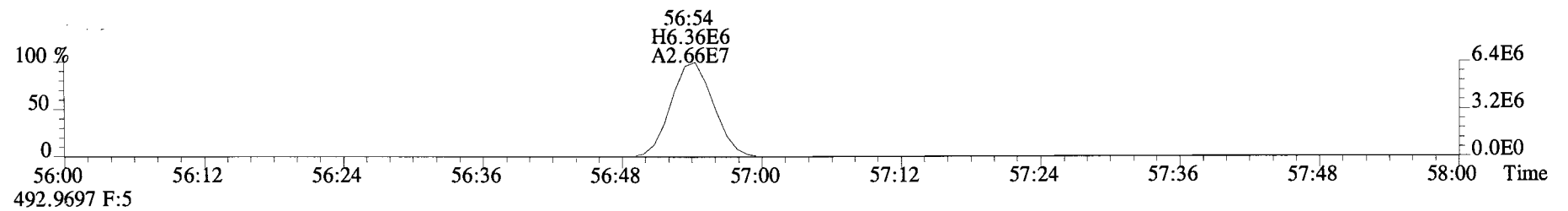
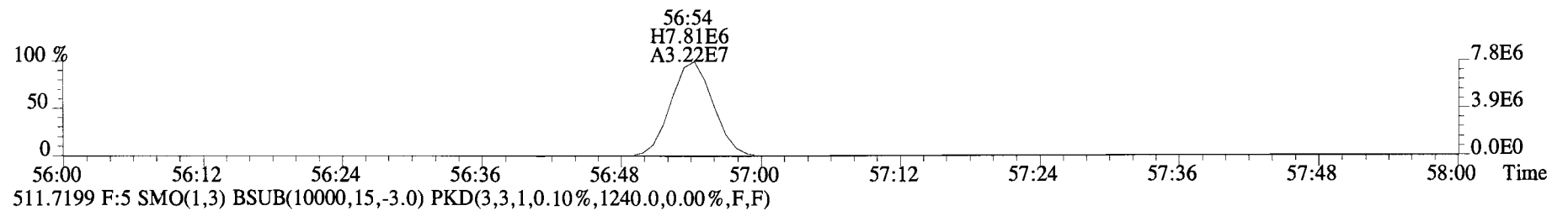
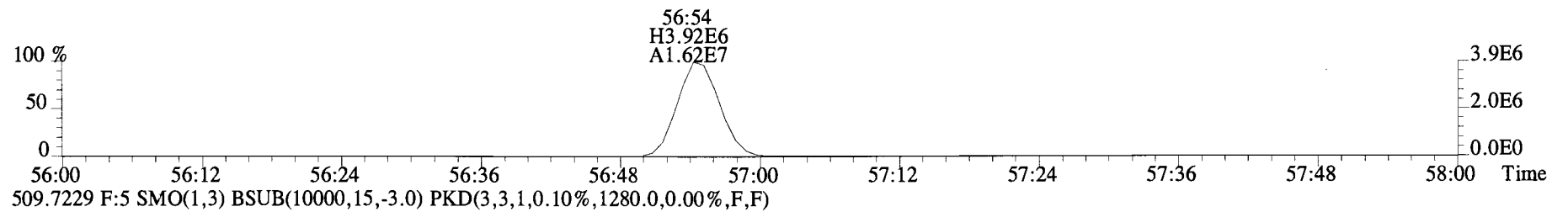
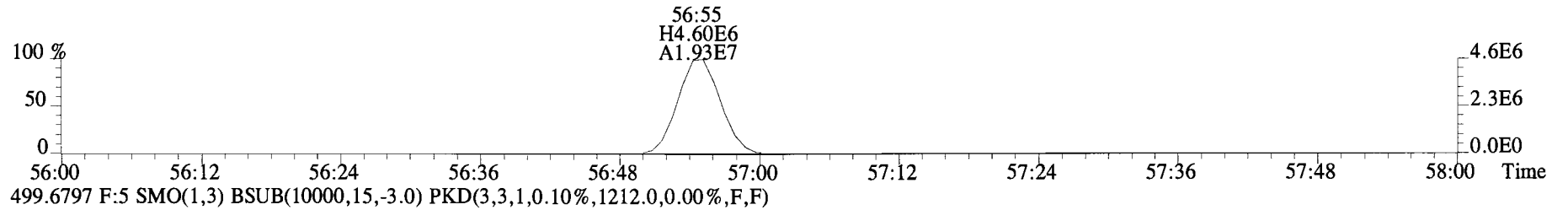
File:140925E1 #1-418 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
429.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20820.0,0.00%,F,F)

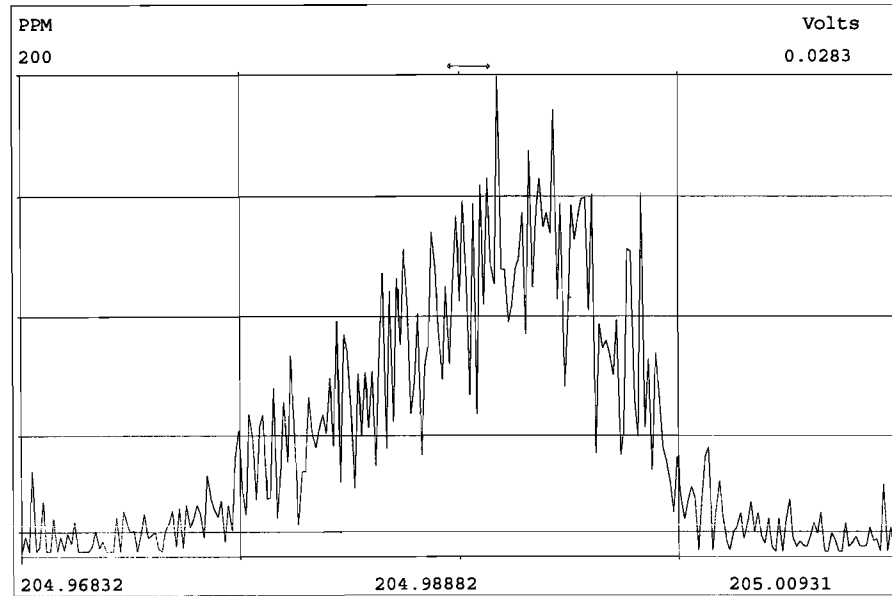
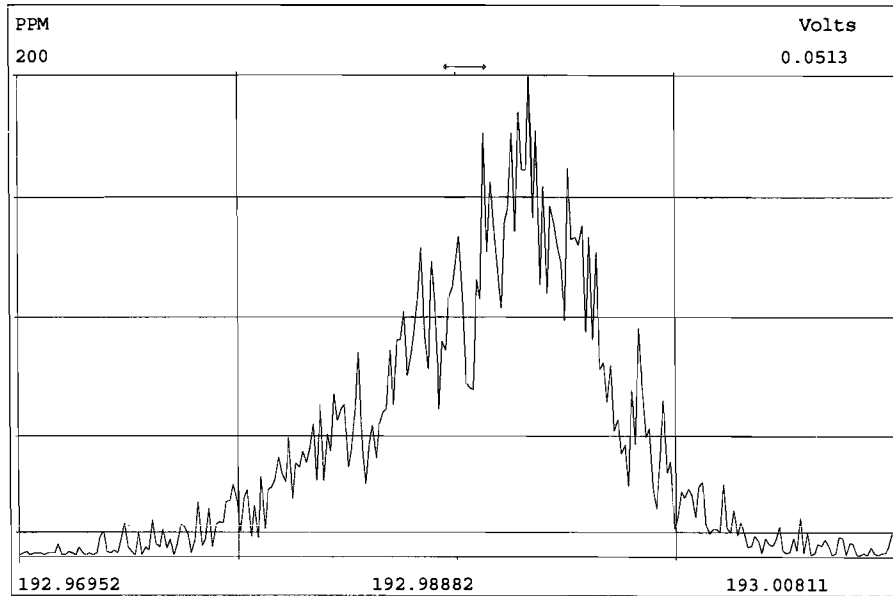
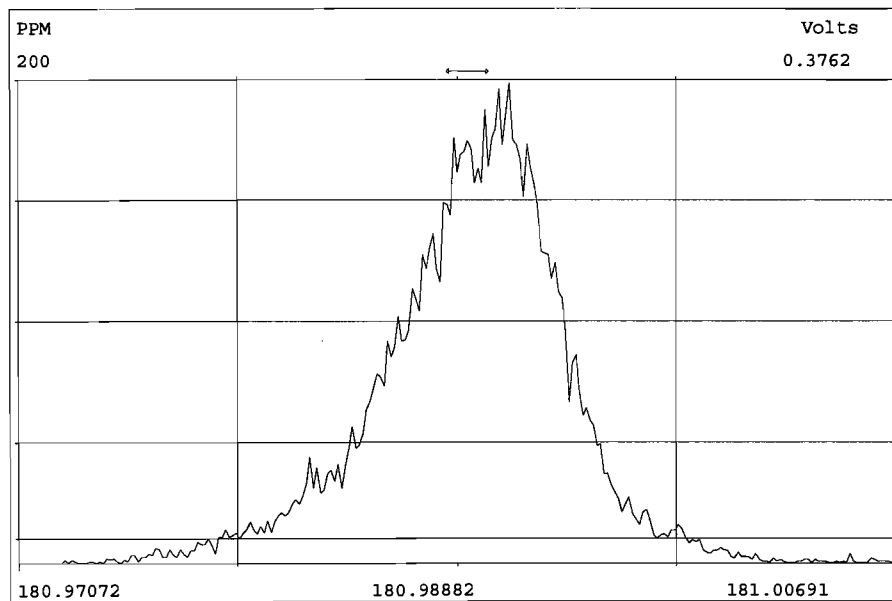
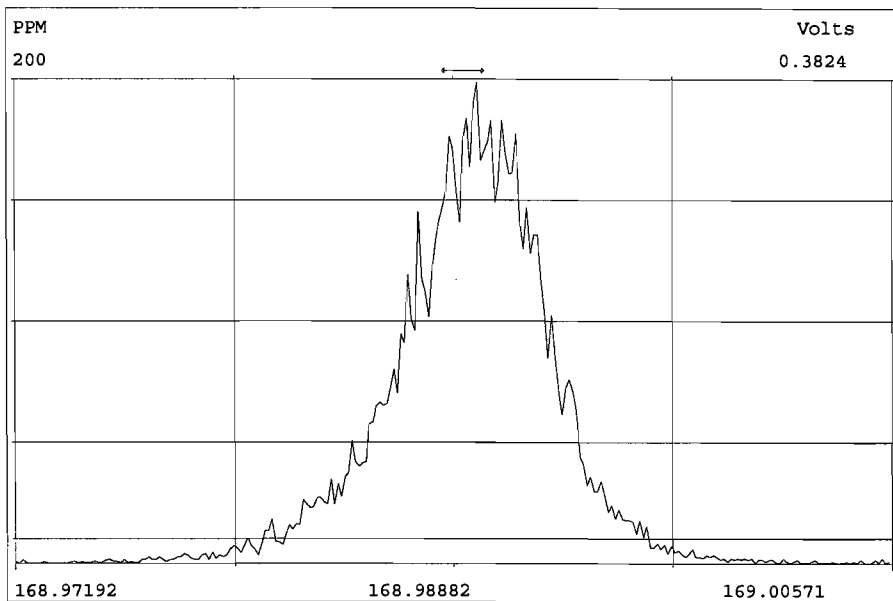


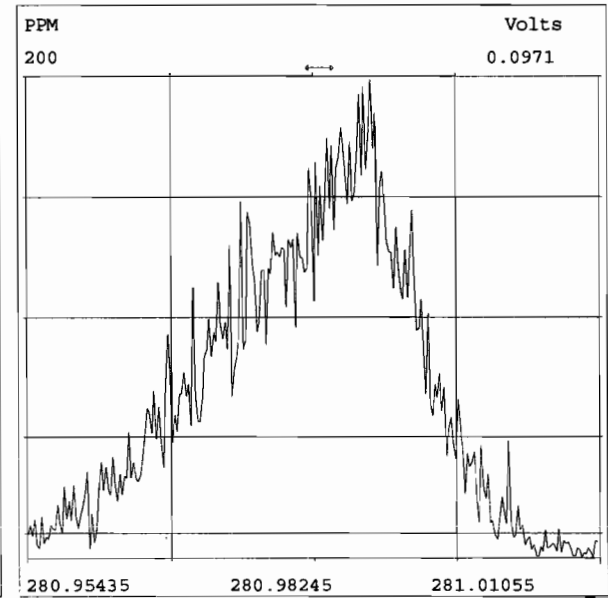
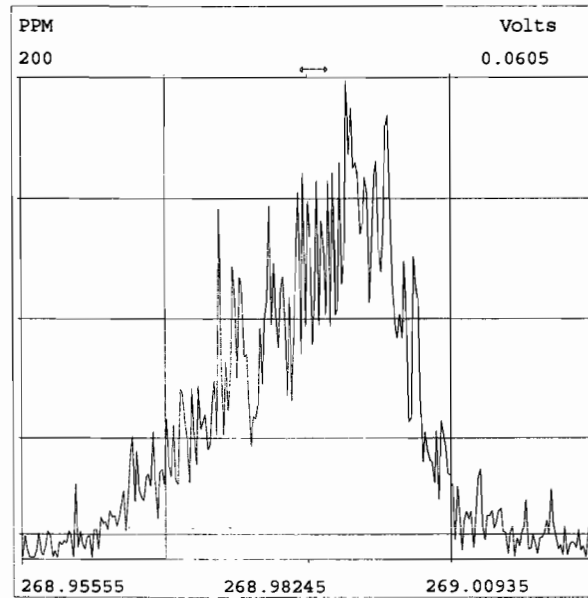
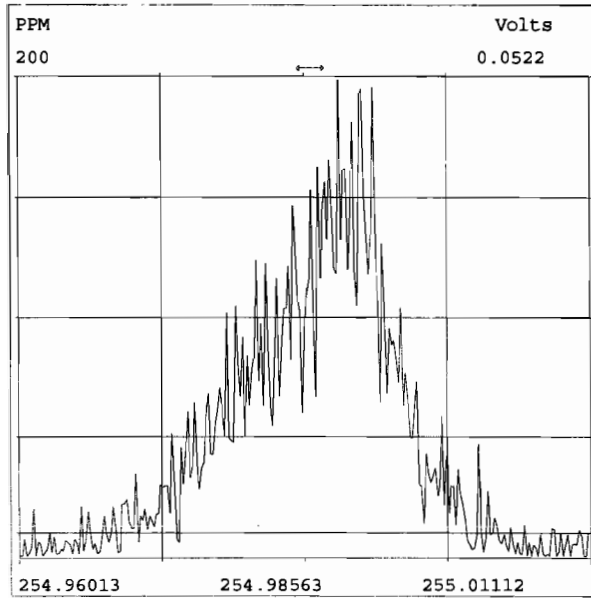
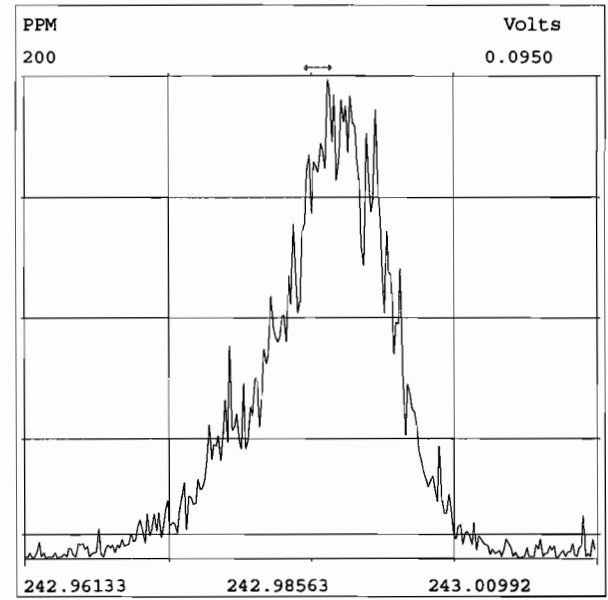
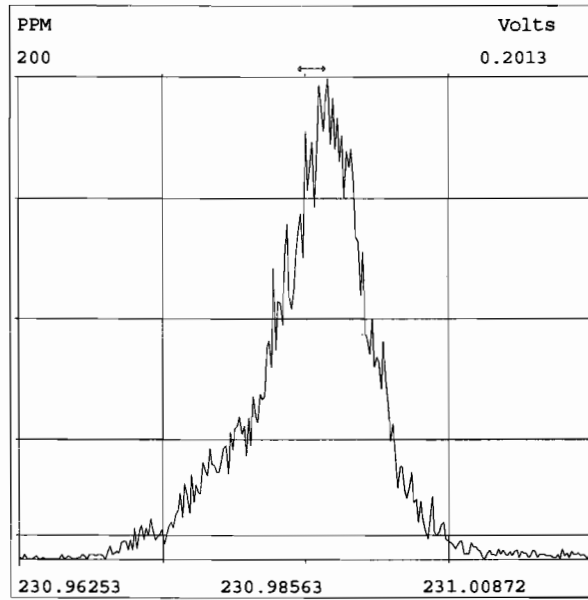
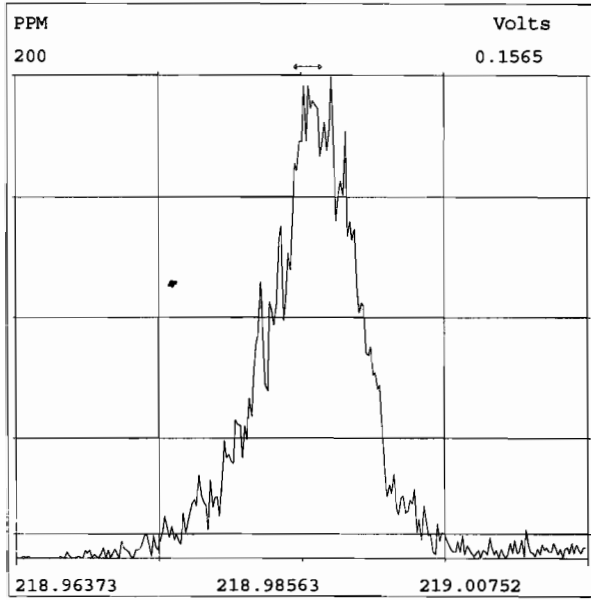
File:140925E1 #1-418 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10108.0,0.00%,F,F)

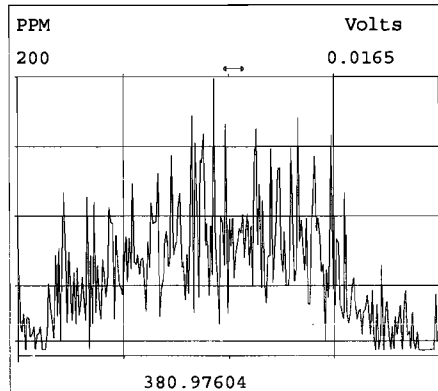
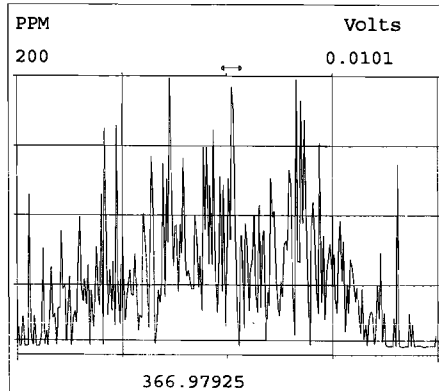
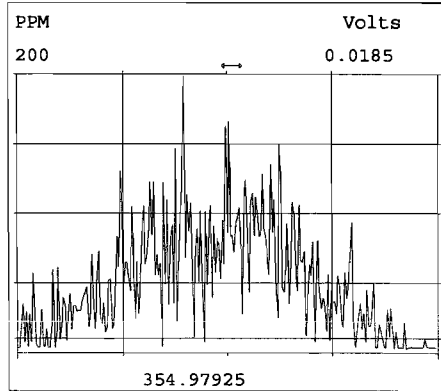
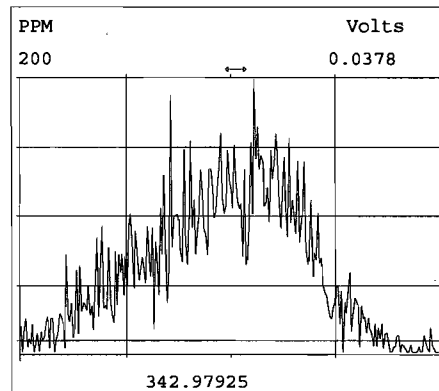
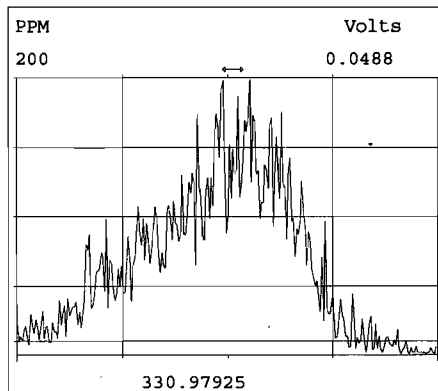
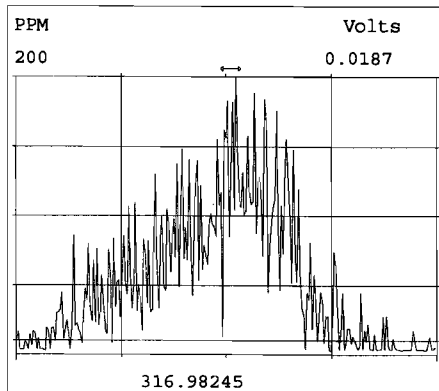
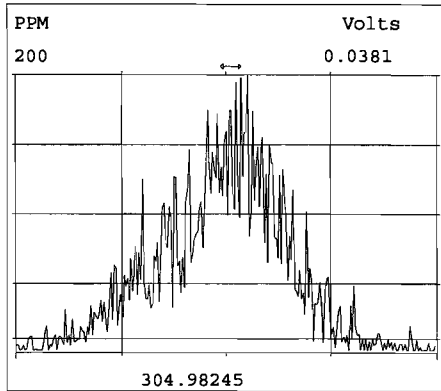
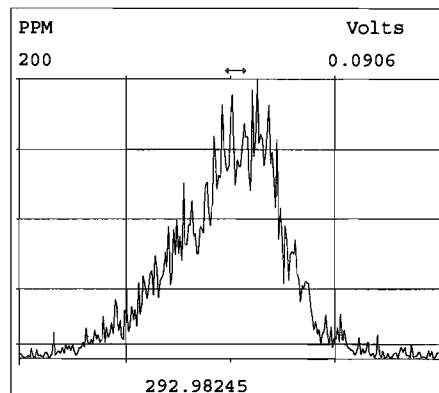
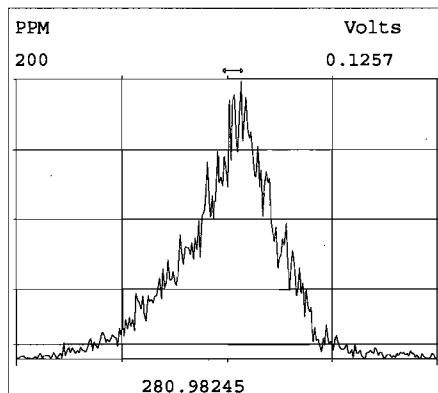
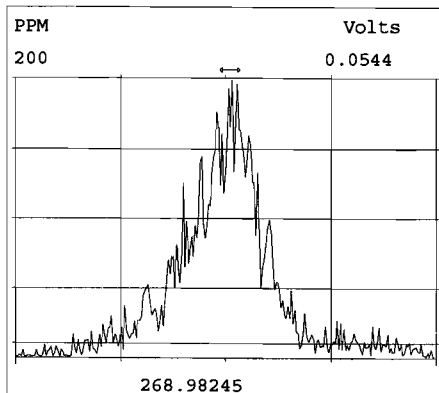
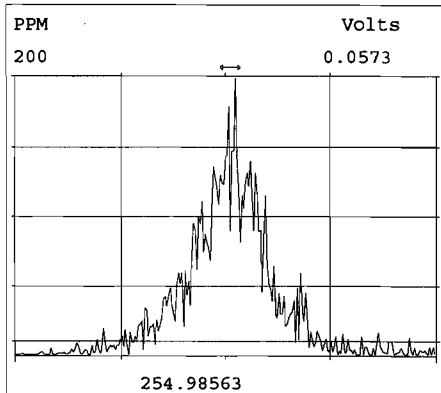


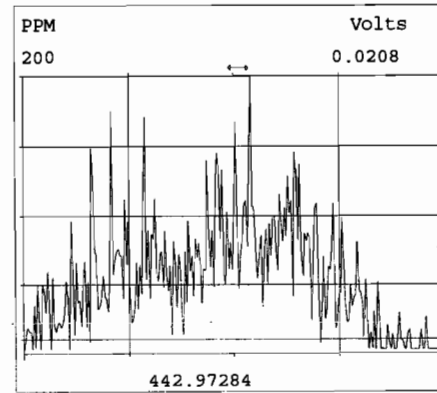
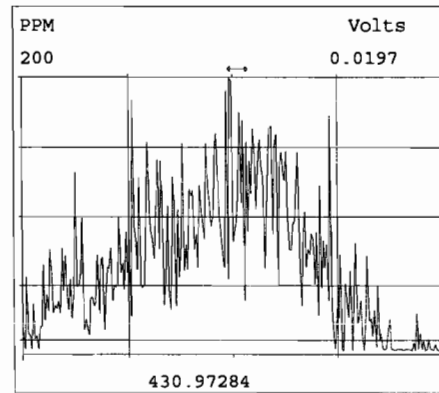
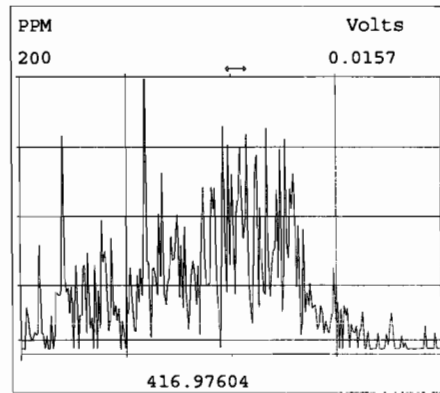
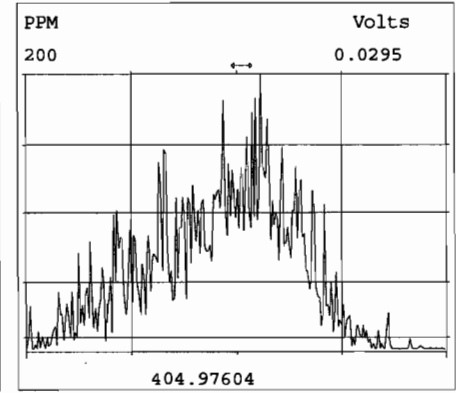
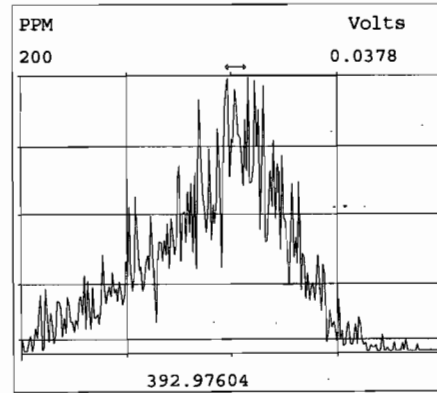
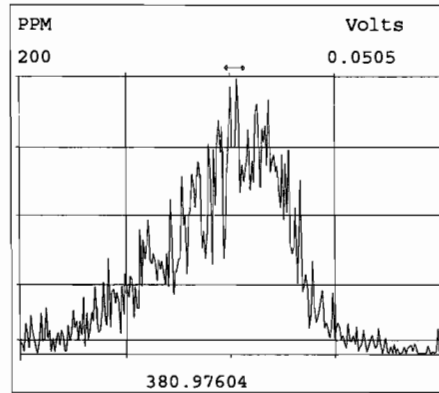
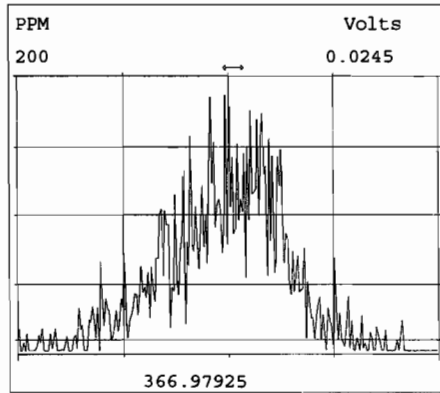
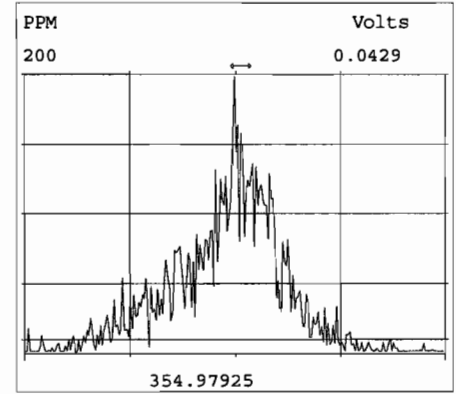
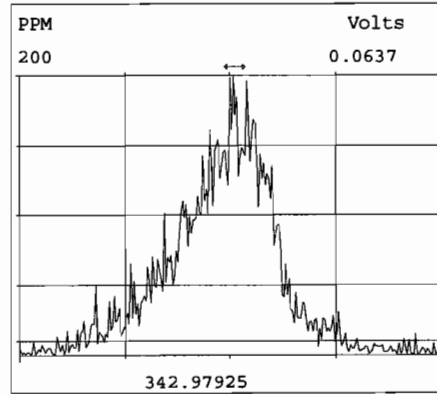
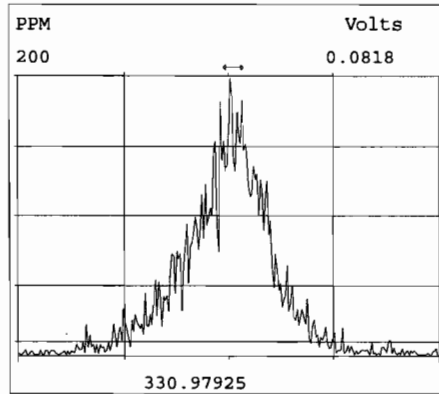
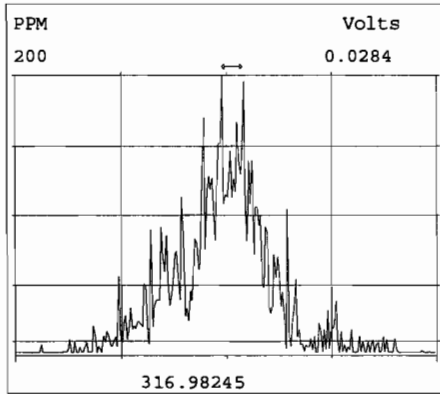
File:140925E1 #1-418 Acq:25-SEP-2014 08:05:32 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140925E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
497.6826 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1200.0,0.00%,F,F)



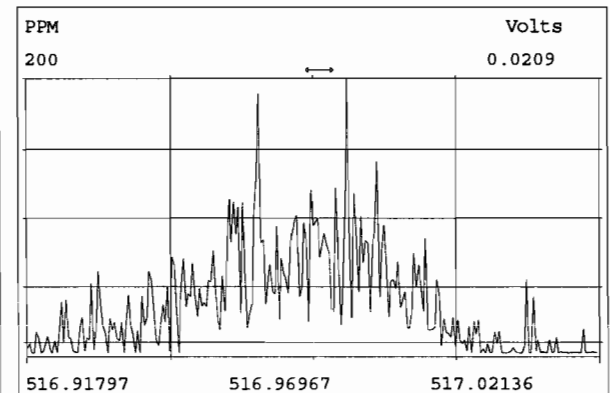
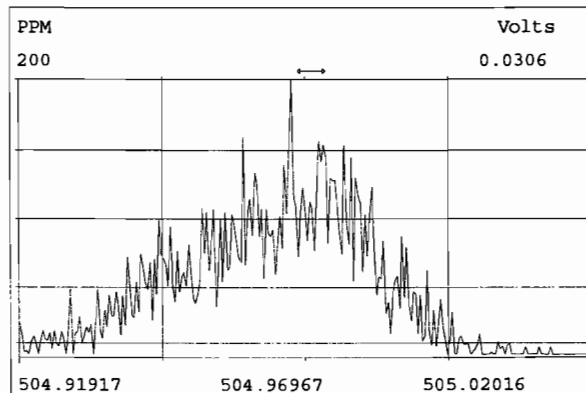
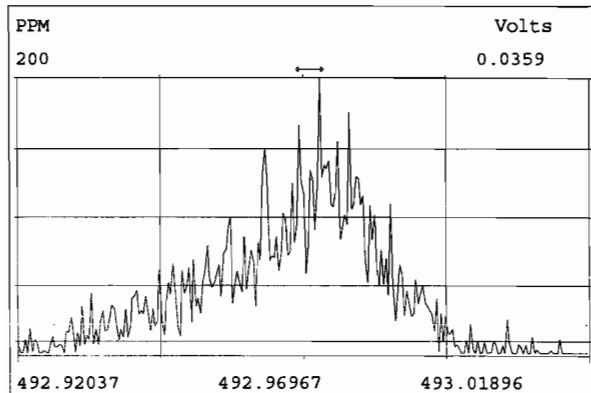
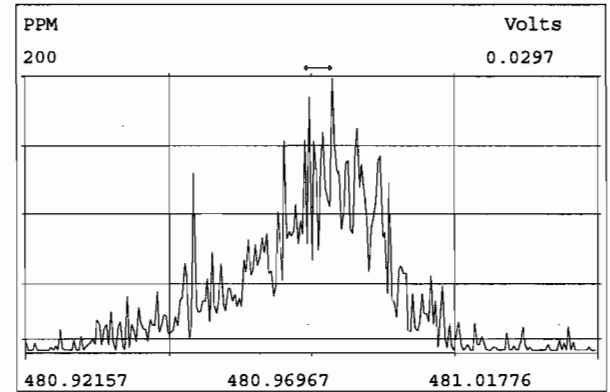
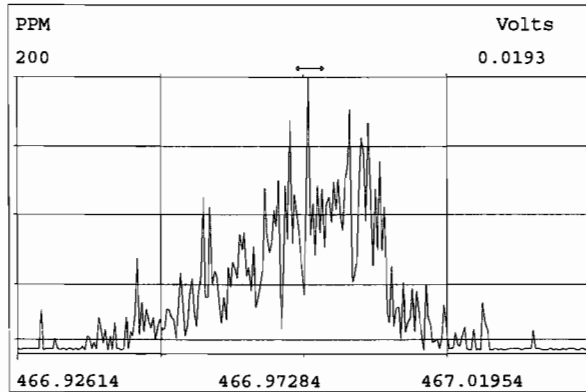
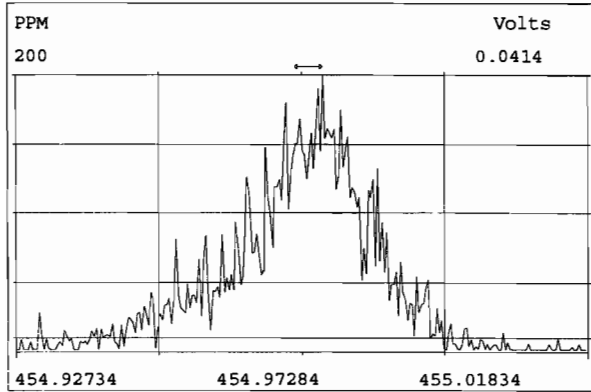
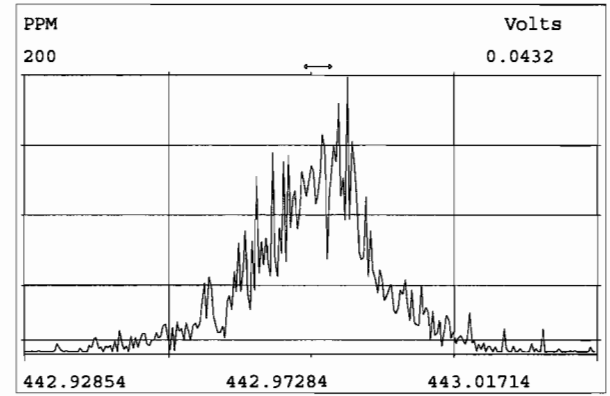
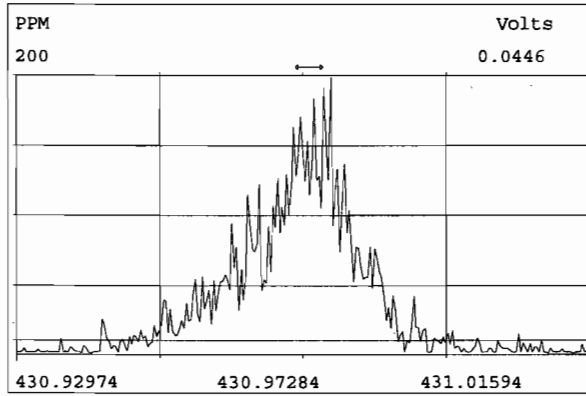
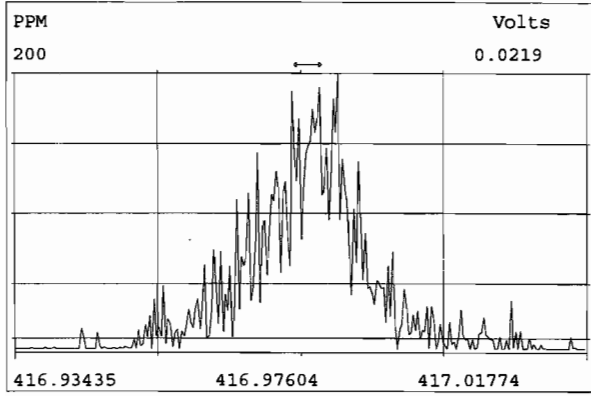












Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	6.66e+07	1.54	y	1.19	37:37	1.000	0.996-1.006	108.754	PCB-133/142	8.66e+07	1.23	y	0.95	42:33	0.982	0.977-0.987	111.042
PCB-113	4.09e+07	1.53	y	1.35	37:52	1.007	1.002-1.012	58.8441	PCB-131	4.15e+07	1.23	y	0.91	42:43	0.986	0.981-0.991	55.0170
PCB-99	3.26e+07	1.56	y	1.29	37:57	1.009	1.005-1.015	49.1235	PCB-146/165	1.06e+08	1.25	y	1.16	42:56	0.991	0.986-0.996	111.332
PCB-119	4.20e+07	1.55	y	1.72	38:25	0.987	0.982-0.992	54.3619	PCB-132/161	1.02e+08	1.26	y	1.11	43:11	0.997	0.992-1.002	111.202
PCB-108/112	6.55e+07	1.56	y	1.29	38:34	0.992	0.986-0.996	113.228	PCB-153	5.58e+07	1.25	y	1.18	43:21	1.000	0.995-1.005	57.3587
PCB-83	3.87e+07	1.57	y	1.52	38:44	0.996	0.991-1.001	56.6058	PCB-168	6.25e+07	1.24	y	1.37	43:34	1.005	1.000-1.010	55.3508
PCB-97	3.20e+07	1.55	y	1.25	38:56	1.001	0.996-1.006	56.9930	PCB-141	4.44e+07	1.25	y	0.97	44:05	1.000	0.996-1.005	57.3769
PCB-86	2.28e+07	1.53	y	1.02	39:04	1.004	1.000-1.010	49.6429	PCB-137	4.72e+07	1.21	y	1.07	44:28	1.009	1.004-1.014	55.5086
B-87/117/125	1.11e+08	1.53	y	1.56	39:12	1.008	1.002-1.012	159.073	PCB-130	3.97e+07	1.26	y	0.85	44:35	1.012	1.007-1.017	58.9421
PCB-111/115	8.45e+07	1.54	y	1.75	39:21	1.012	1.007-1.017	107.320	PCB-138/163/164	1.60e+08	1.25	y	1.23	44:57	1.001	0.996-1.006	178.584
PCB-85/116	6.18e+07	1.58	y	1.30	39:29	1.015	1.010-1.020	105.606	PCB-158/160	1.11e+08	1.26	y	1.29	45:12	1.006	1.001-1.011	118.499
PCB-120	4.02e+07	1.54	y	1.78	39:44	1.021	1.016-1.026	50.2737	PCB-129	3.92e+07	1.26	y	0.92	45:26	1.012	1.007-1.017	58.1517
PCB-110	4.03e+07	1.54	y	1.68	39:52	1.025	1.020-1.030	53.3366	PCB-166	5.66e+07	1.25	y	1.12	45:54	0.993	0.988-0.998	61.0062
PCB-82	2.55e+07	1.54	y	0.74	40:30	0.976	0.972-0.982	60.0523	PCB-159	5.93e+07	1.25	y	1.16	46:14	1.000	0.995-1.005	61.2065
PCB-124	4.21e+07	1.54	y	1.32	41:11	0.993	0.988-0.998	55.3310	PCB-128/162	1.04e+08	1.24	y	1.02	46:31	1.007	1.002-1.012	123.202
PCB-107/109	8.23e+07	1.57	y	1.22	41:19	0.996	0.991-1.001	117.119	PCB-167	5.86e+07	1.25	y	1.06	46:54	1.000	0.995-1.005	57.0288
PCB-123	3.80e+07	1.54	y	1.22	41:30	1.001	0.995-1.005	54.2448	PCB-156	5.73e+07	1.24	y	1.18	48:12	1.000	0.995-1.005	56.4823
- PCB-106/118	8.37e+07	1.56	y	1.22	41:42	1.001	0.996-1.006	113.565	PCB-157	5.56e+07	1.27	y	1.08	48:29	1.000	0.995-1.005	57.6092
- PCB-114	5.61e+07	1.63	y	1.36	42:20	1.000	0.995-1.005	46.4085	PCB-169	4.39e+07	1.27	y	1.11	50:37	1.000	0.995-1.005	60.7582
PCB-122	5.19e+07	1.49	y	1.24	42:28	1.004	0.999-1.009	47.0143									
PCB-105	5.39e+07	1.56	y	1.28	43:12	1.000	0.995-1.005	48.3738	PCB-188	4.94e+07	1.08	y	1.40	42:59	1.001	0.995-1.005	55.7017
PCB-127	5.06e+07	1.56	y	1.14	43:32	1.000	0.995-1.005	47.5245	PCB-184	4.32e+07	1.05	y	1.24	43:26	1.011	1.006-1.016	55.3579
PCB-126	4.72e+07	1.56	y	1.28	45:26	1.000	0.995-1.005	48.0496	PCB-179	4.44e+07	1.07	y	1.30	44:12	1.029	1.024-1.034	53.9200
									PCB-176	4.48e+07	1.07	y	1.36	44:41	1.040	1.035-1.045	52.0361
PCB-155	2.59e+07	1.27	y	1.14	37:10	1.001	0.966-1.006	58.5871	PCB-186	4.42e+07	1.06	y	1.28	45:17	1.054	1.049-1.059	54.8684
PCB-150	2.39e+07	1.29	y	1.06	38:26	1.035	1.030-1.040	57.8608	PCB-178	3.06e+07	1.09	y	0.94	45:47	1.066	1.061-1.071	51.8203
PCB-152	2.42e+07	1.28	y	1.10	38:54	1.047	1.043-1.053	56.5205	PCB-175	3.21e+07	1.08	y	0.97	46:08	1.074	1.069-1.079	52.4730
PCB-145	2.30e+07	1.30	y	1.09	39:21	1.060	1.055-1.065	54.1192	PCB-182/187	6.83e+07	1.07	y	1.01	46:18	1.078	1.073-1.083	106.654
PCB-136	2.21e+07	1.28	y	1.08	39:41	1.068	1.064-1.074	52.4889	PCB-183	3.88e+07	1.09	y	1.08	46:37	1.085	1.080-1.090	56.7914
PCB-148	1.59e+07	1.27	y	0.74	39:47	1.071	1.066-1.076	55.1586	PCB-185	3.15e+07	1.10	y	1.34	47:17	0.956	0.951-0.961	57.9133
PCB-154	1.82e+07	1.27	y	0.88	40:16	1.084	1.079-1.089	52.8932	PCB-174	3.06e+07	1.08	y	1.34	47:38	0.963	0.958-0.968	56.4491
PCB-151	1.60e+07	1.31	y	0.81	40:55	1.101	1.097-1.107	50.8636	PCB-181	3.16e+07	1.09	y	1.36	47:45	0.965	0.961-0.971	57.4241
PCB-135	1.47e+07	1.43	n	0.78	41:08	1.107	1.101-1.113	48.5397	PCB-177	2.84e+07	1.08	y	1.24	47:55	0.969	0.964-0.974	56.5870
PCB-144	1.67e+07	1.13	y	0.82	41:15	1.110	1.105-1.116	52.2378	PCB-171	3.00e+07	1.07	y	1.31	48:13	0.975	0.970-0.980	56.5480
PCB-147	1.65e+07	1.30	y	0.83	41:22	1.114	1.011-1.120	51.3121	PCB-173	2.66e+07	1.08	y	1.16	48:38	0.983	0.979-0.989	56.6873
PCB-139/149	3.38e+07	1.29	y	0.84	41:38	1.121	1.115-1.127	103.091	PCB-172	2.80e+07	1.07	y	1.22	49:05	0.992	0.988-0.998	56.5747
- PCB-140	1.52e+07	1.27	y	0.79	41:49	1.126	1.120-1.132	49.9376	PCB-192	3.61e+07	1.07	y	1.53	49:17	0.996	0.991-1.001	58.3611
- PCB-134/143	8.83e+07	1.25	y	0.93	42:15	0.975	0.970-0.980	115.439	PCB-180	3.27e+07	1.09	y	1.43	49:30	1.001	0.995-1.005	56.5592

\*

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: Dms

Date: 9/29/14

\* = used only

Client ID: PCB CS3 14F1901  
Lab ID: ST140926E1-1

Filename: 140926E1 S:1 Acq:26-SEP-14 14:33:56  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000

ConCal: ST140926E1-1  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RT	RRF	Conc
PCB-193	3.72e+07	1.09 y	1.65	49:42	1.005	0.999-1.009		35.5160	Total Mono-PCB	4.77e+08	3.03 y	16:14	1.22	161.312
PCB-191	3.26e+07	1.10 y	1.67	49:57	1.010	1.004-1.014		48.1195	Total Di-PCB	2.32e+09	1.56 y	20:13	1.21	1060.00
PCB-170	2.17e+07	1.10 y	1.50	50:58	1.000	0.995-1.005		60.0772	Total Tri-PCB	7.50e+08	1.05 y	24:20	1.16	428.794
PCB-190	2.93e+07	1.09 y	2.02	51:09	1.004	0.998-1.008		60.5234	Total Tri-PCB	1.17e+09	1.00 y	28:02	1.35	664.416
PCB-189	2.93e+07	1.11 y	1.54	52:28	1.000	0.995-1.005		60.2160 X	Total Tetra-PCB	2.67e+09	0.74 y	28:05	1.17	2495.73
PCB-202	2.15e+07	0.92 y	1.04	48:24	1.000	0.995-1.005		56.9945	Total Penta-PCB	1.46e+09	1.56 y	32:47	1.21	2239.12
PCB-201	2.32e+07	0.92 y	1.10	48:53	1.010	1.006-1.016		58.0018	Total Penta-PCB	2.76e+08	1.63 y	42:20	1.26	252.010
PCB-204	2.10e+07	0.96 y	0.99	49:03	1.014	1.009-1.019		58.1427	Total Hexa-PCB	2.52e+08	1.27 y	37:10	0.92	695.070
PCB-197	2.26e+07	0.92 y	1.07	49:21	1.020	1.015-1.025		58.1867	Total Hexa-PCB	1.44e+09	1.25 y	42:15	1.08	1640.22
PCB-200	1.48e+07	0.92 y	1.02	50:14	1.038	1.032-1.044		40.1428	Total Hepta-PCB	8.29e+08	1.08 y	42:59	1.27	1349.18
PCB-198	1.11e+07	0.94 y	0.74	51:33	1.065	1.058-1.068		41.2063	Total Octa-PCB	1.48e+08	0.92 y	48:24	0.92	436.368
PCB-199	1.08e+07	0.93 y	0.73	51:40	1.068	1.060-1.070		40.8065	Total Octa-PCB	7.89e+07	0.89 y	53:06	1.29	164.282
- PCB-196/203	2.32e+07	0.91 y	0.77	51:56	1.073	1.066-1.076		82.8873	Total Nona-PCB	6.96e+07	1.30 y	53:14	0.96	136.685
- PCB-195	2.47e+07	0.89 y	1.20	53:06	0.984	0.979-0.989		55.1046	Total Deca-PCB	1.81e+07	1.18 y	56:60	1.18	53.7755
PCB-194	2.39e+07	0.91 y	1.25	53:59	1.000	0.995-1.005		51.2991						
PCB-205	2.77e+07	0.90 y	1.41	54:16	1.006	1.001-1.011		52.4752						
PCB-208	2.77e+07	1.30 y	0.96	53:14	1.000	0.995-1.005		46.0515 X						
PCB-207	2.49e+07	1.30 y	0.92	53:33	1.006	1.001-1.011		43.3894 X						
PCB-206	1.57e+07	1.32 y	1.03	55:38	1.000	0.995-1.005		44.8391 X						
- PCB-209	1.81e+07	1.18 y	1.18	56:60	1.000	0.995-1.005		53.7755 X						

Total PCB Conc:11651.3846370

X = used only

RL: MONO, TRI - DECA: \_\_\_\_\_

Integrations  
by

Analyst: Dms

Date: 9/29/14

Client ID: PCB CS3 14F1901  
Lab ID: ST140926E1-1

Filename: 140926E1 S:1 Acq:26-SEP-14 14:33:56  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST140926E1-1  
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	2.49e+08	3.35 y	0.89	16:13	0.623	0.622-0.628		135	135											
13C-PCB-3	2.39e+08	3.41 y	0.93	18:49	0.723	0.721-0.729		125	125		13C-PCB-79	1.19e+08	0.75 y	1.01	37:55	1.029	1.023-1.033		107	107
13C-PCB-4	1.21e+08	1.55 y	0.55	20:10	0.774	0.772-0.780		106	106		13C-PCB-178	4.27e+07	0.47 y	0.63	45:45	0.984	0.979-0.989		95.3	95.3
13C-PCB-9	1.78e+08	1.54 y	0.83	21:57	0.843	0.840-0.848		104	104											
13C-PCB-11	1.96e+08	1.55 y	0.94	25:20	0.973	0.968-0.978		101	101	PS vs. IS										
13C-PCB-19	1.15e+08	1.07 y	0.53	24:19	0.934	0.929-0.939		104	104											
13C-PCB-28	1.36e+08	1.02 y	0.89	29:11	1.004	0.999-1.009		108	108		13C-PCB-79	1.19e+08	0.75 y	1.20	37:55	0.969	0.963-0.973		119	119
13C-PCB-32	1.68e+08	1.07 y	0.81	27:14	1.046	1.041-1.051		100.0	100.0		13C-PCB-178	4.27e+07	0.47 y	0.94	45:45	0.925	0.920-0.930		113	113
13C-PCB-37	1.20e+08	1.04 y	0.83	33:04	1.137	1.131-1.143		101	101											
13C-PCB-47	8.59e+07	0.78 y	0.74	32:06	0.871	0.867-0.875		104	104											
13C-PCB-52	8.21e+07	0.77 y	0.71	31:36	0.857	0.853-0.861		104	104											
13C-PCB-54	1.09e+08	0.78 y	0.85	28:04	0.761	0.758-0.766		115	115											
13C-PCB-70	1.01e+08	0.77 y	0.94	35:37	0.966	0.961-0.971		95.9	95.9											
13C-PCB-77	8.75e+07	0.77 y	0.89	39:45	1.078	1.073-1.083		88.0	88.0											
13C-PCB-80	1.04e+08	0.77 y	0.96	36:02	0.978	0.972-0.982		97.0	97.0											
13C-PCB-81	8.34e+07	0.78 y	0.84	39:09	1.062	1.057-1.067		89.5	89.5											
13C-PCB-95	4.94e+07	1.67 y	0.74	35:55	0.913	0.908-0.918		105	105	RS										
13C-PCB-97	4.49e+07	1.70 y	0.69	38:54	0.989	0.984-0.994		103	103		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	5.15e+07	1.71 y	0.79	37:36	0.956	0.951-0.961		103	103		13C-PCB-15	2.07e+08	1.53 y	1.00	26:02	100				
13C-PCB-104	7.10e+07	1.67 y	1.00	32:46	0.833	0.829-0.837		112	112		13C-PCB-31	1.42e+08	1.01 y	1.00	29:04	100				
13C-PCB-105	8.69e+07	1.55 y	1.24	43:11	0.929	0.924-0.934		98.9	98.9		13C-PCB-60	1.11e+08	0.77 y	1.00	36:52	100				
13C-PCB-114	8.93e+07	1.57 y	1.21	42:19	0.910	0.905-0.915		104	104		13C-PCB-111	6.35e+07	1.63 y	1.00	39:20	100				
13C-PCB-118	6.02e+07	1.69 y	0.98	41:39	1.059	1.054-1.064		96.3	96.3		13C-PCB-128	7.10e+07	1.27 y	1.00	46:29	100				
13C-PCB-123	5.75e+07	1.66 y	0.95	41:28	1.054	1.049-1.059		95.5	95.5		13C-PCB-205	4.51e+07	0.92 y	1.00	54:15	100				
13C-PCB-126	7.64e+07	1.56 y	1.16	45:25	0.977	0.972-0.982		92.6	92.6											
13C-PCB-127	9.35e+07	1.55 y	1.34	43:31	0.936	0.931-0.941		98.1	98.1											
13C-PCB-138	7.29e+07	1.24 y	1.04	44:55	0.966	0.961-0.971		98.4	98.4											
13C-PCB-141	7.94e+07	1.30 y	1.07	44:04	0.948	0.943-0.953		104	104											
13C-PCB-153	8.25e+07	1.28 y	1.11	43:20	0.932	0.927-0.937		104	104											
13C-PCB-155	3.89e+07	1.25 y	0.83	37:08	0.944	0.939-0.949		73.7	73.7											
13C-PCB-156	8.58e+07	1.27 y	1.24	48:11	1.037	1.032-1.042		97.1	97.1											
13C-PCB-157	8.92e+07	1.27 y	1.31	48:27	1.043	1.037-1.047		95.8	95.8											
13C-PCB-159	8.31e+07	1.27 y	1.20	46:12	0.994	0.989-0.999		97.6	97.6											
13C-PCB-167	9.68e+07	1.27 y	1.32	46:53	1.009	1.004-1.014		103	103											
13C-PCB-169	6.52e+07	1.24 y	1.22	50:36	1.089	1.082-1.092		75.6	75.6											
13C-PCB-170	2.40e+07	0.47 y	0.54	50:57	1.096	1.089-1.101		63.2	63.2											
13C-PCB-180	4.05e+07	0.48 y	0.67	49:28	1.064	1.059-1.069		84.6	84.6											
13C-PCB-188	6.31e+07	0.47 y	0.94	42:58	0.924	0.919-0.929		95.0	95.0											
13C-PCB-189	3.16e+07	0.48 y	0.72	52:27	1.129	1.120-1.132		62.2	62.2	*										
13C-PCB-194	3.74e+07	0.94 y	0.81	53:58	0.995	0.990-1.000		102	102											
13C-PCB-202	3.63e+07	0.97 y	0.83	48:23	1.041	1.036-1.046		61.3	61.3	*										
13C-PCB-206	3.41e+07	0.79 y	0.66	55:37	1.025	1.021-1.031		115	115	*										
13C-PCB-208	6.26e+07	0.77 y	1.12	53:14	0.981	0.976-0.986		123	123	*										
13C-PCB-209	2.86e+07	1.21 y	0.61	56:59	1.050	1.044-1.054		103	103	*										

Analyst: *Dms*

Date: *9/29/14*

*\* = used only*

Vista Analytical Laboratory - Injection Log Run file: 140926E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140926E1	1	ST140926E1-1	DMS	26-SEP-14	14:33:56	ST140926E1-1	NA
140926E1	2	SOLVENT BLANK	DMS	26-SEP-14	15:38:20	ST140926E1-1	NA
140926E1	3	1400668-02RE1 DL 1:5	DMS	26-SEP-14	16:42:50	ST140926E1-1	NA

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST140926E1-1

End Calibration ID: NA

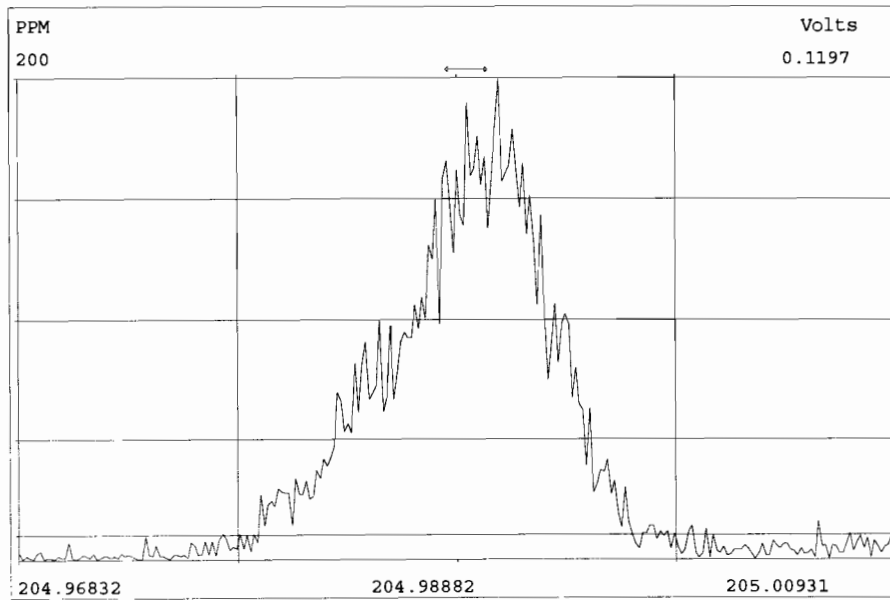
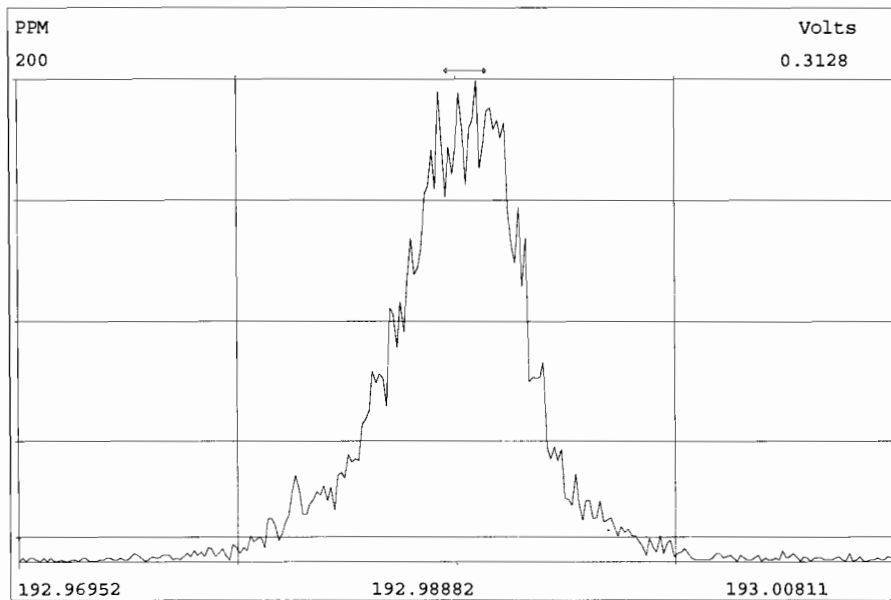
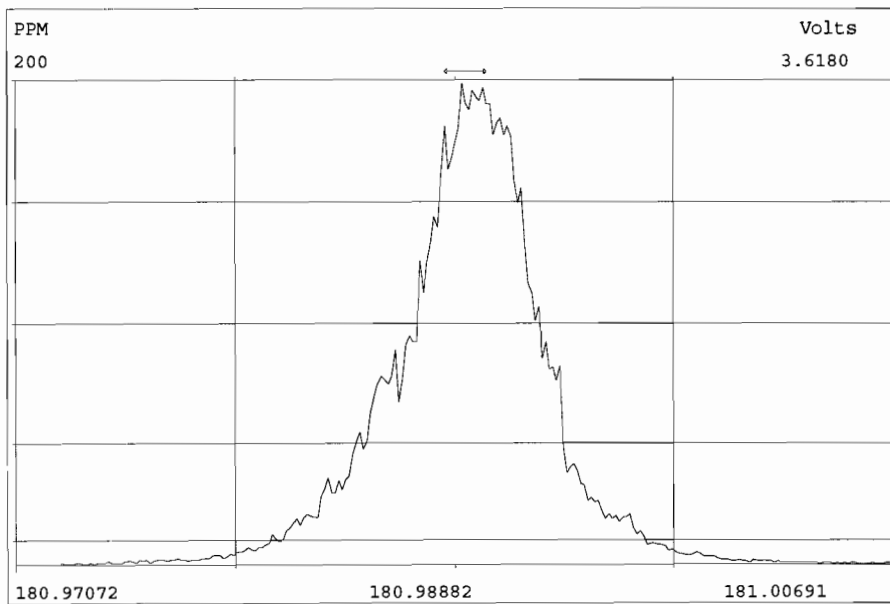
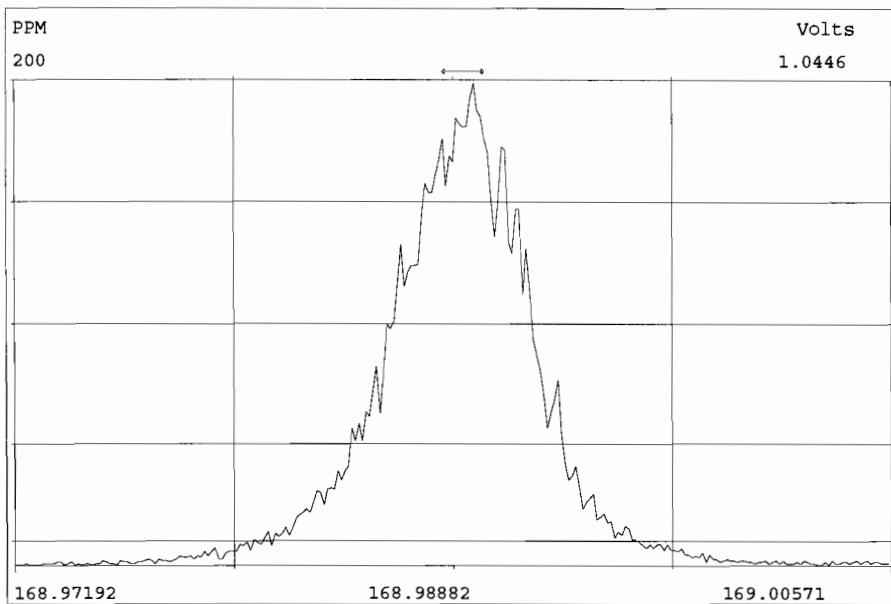
	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/> 1
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> DMS 9/29/14	<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

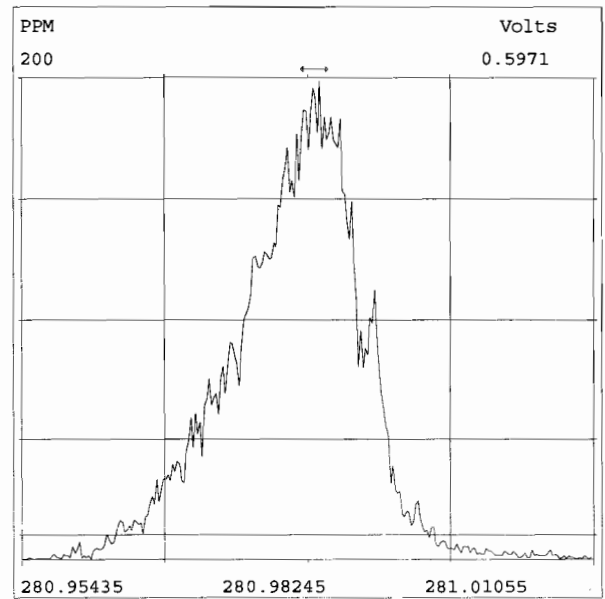
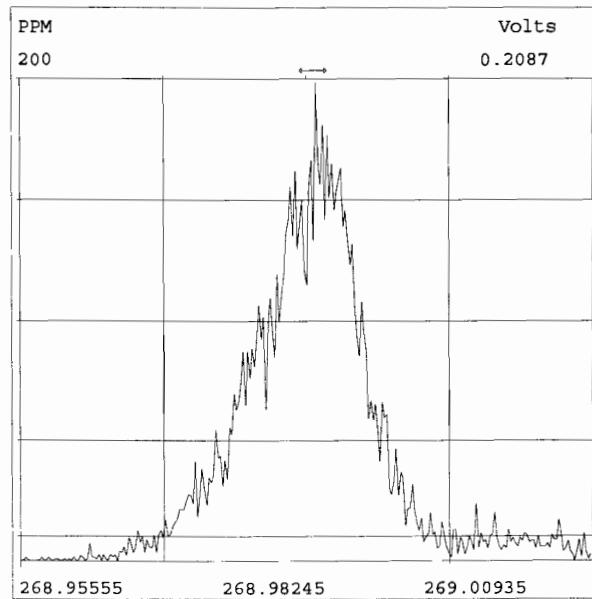
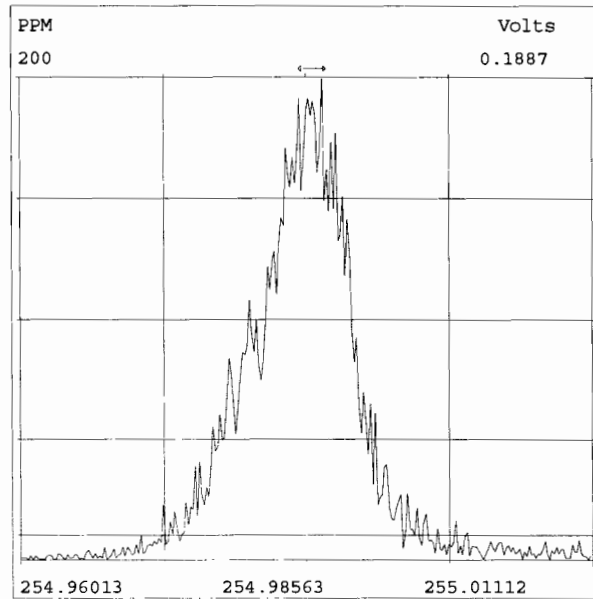
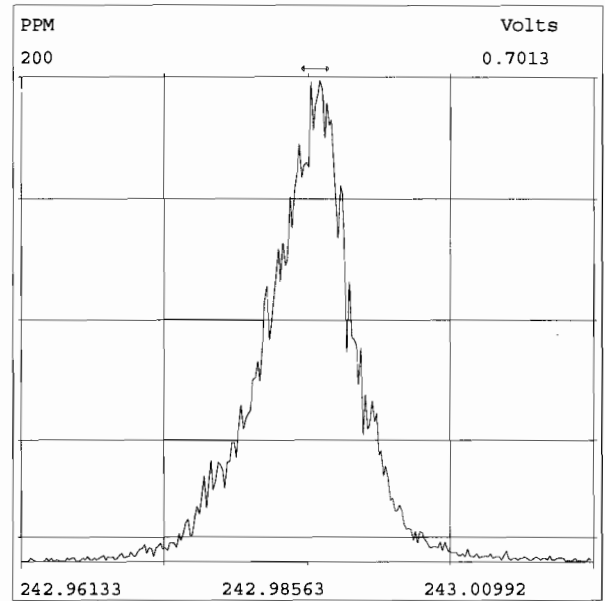
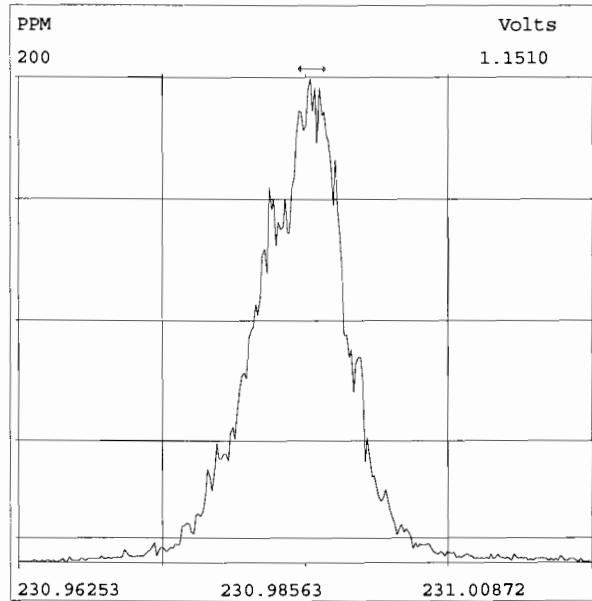
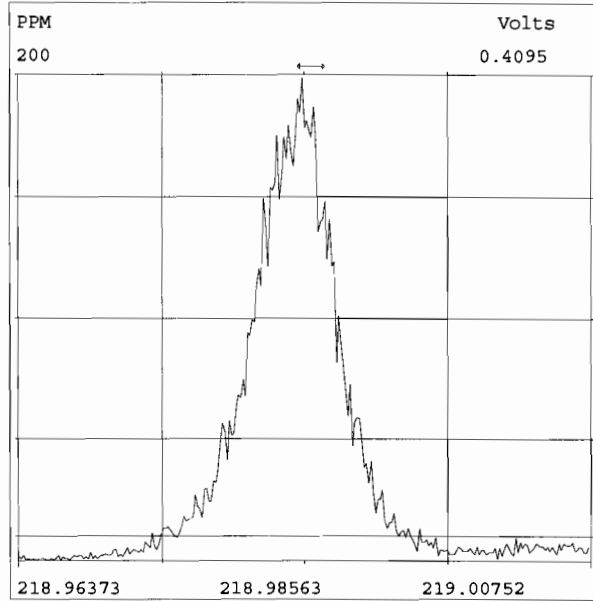
	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" 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 3rd function  
Hexa PCB's, PCB 189, 206, 207,  
208 and PCB 209 only.  
DMS 9/29/14*

Reviewed by: DMS 9/29/14  
Initials & Date

\* Ending standard criteria applicable to 8290 only.

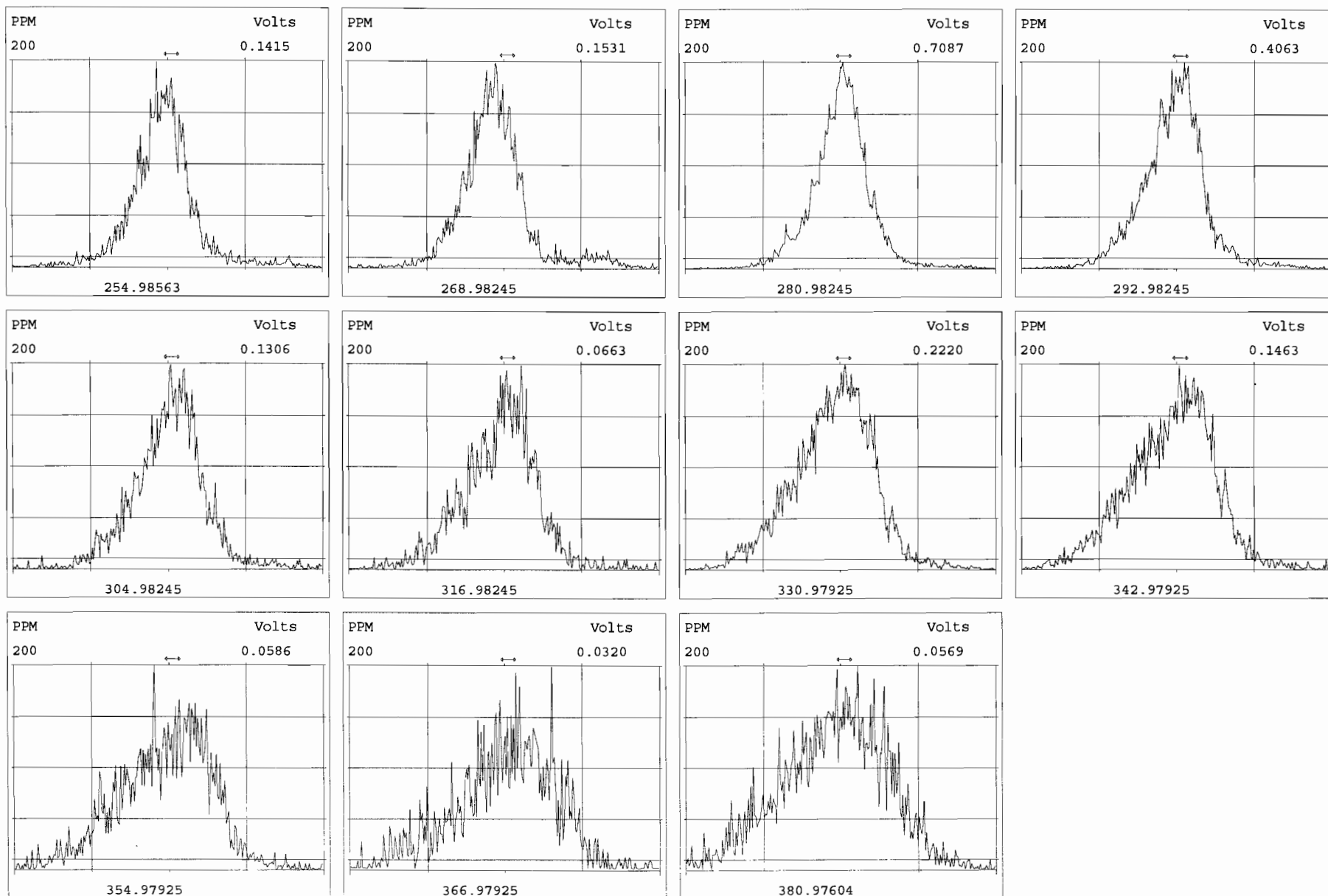


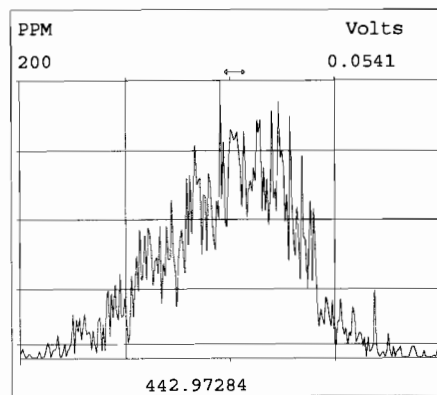
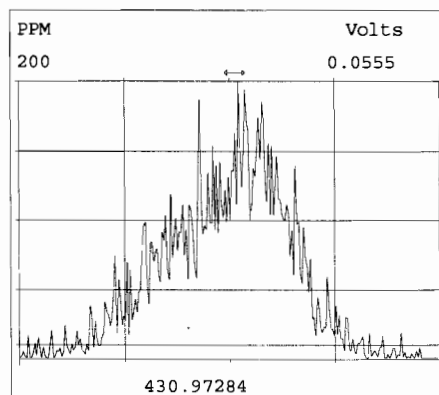
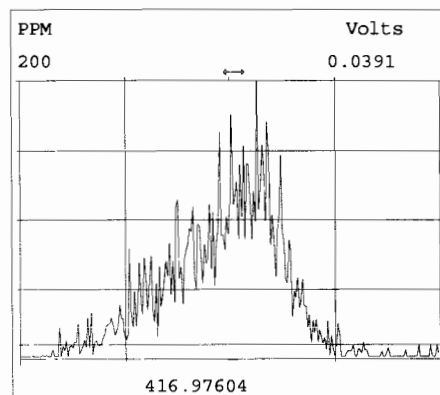
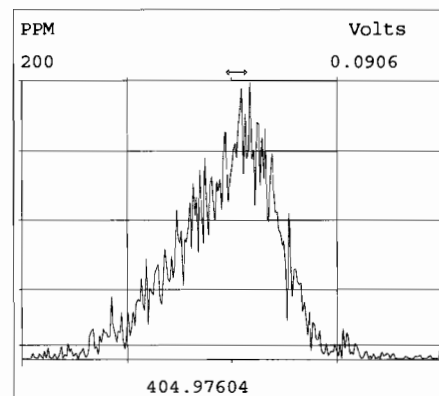
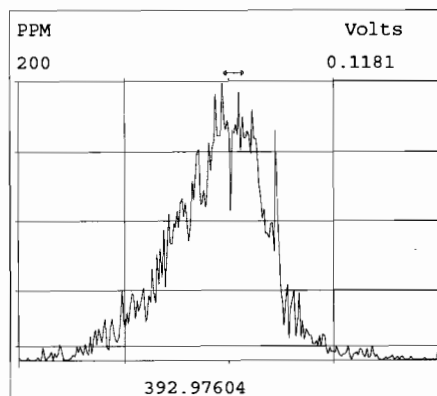
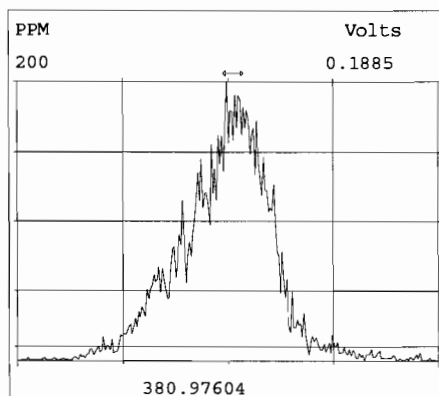
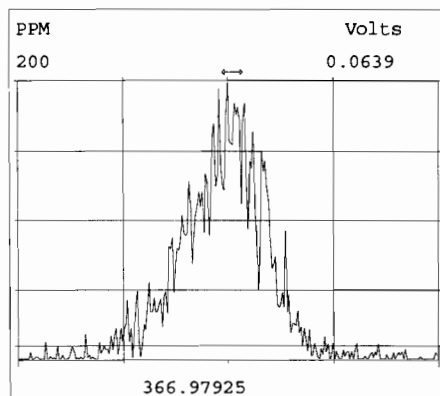
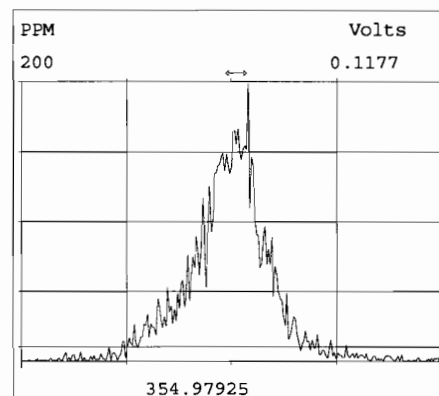
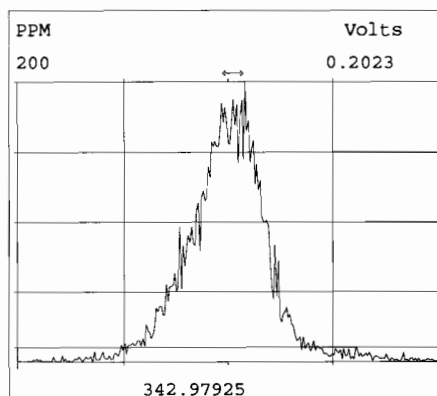
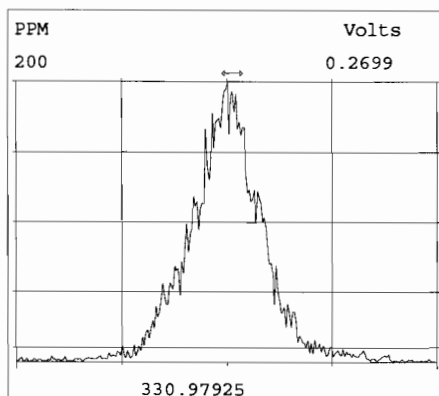
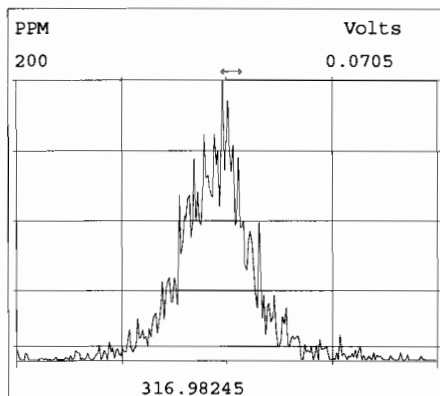


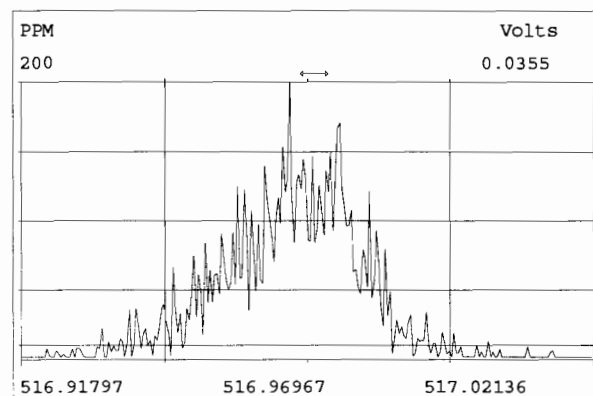
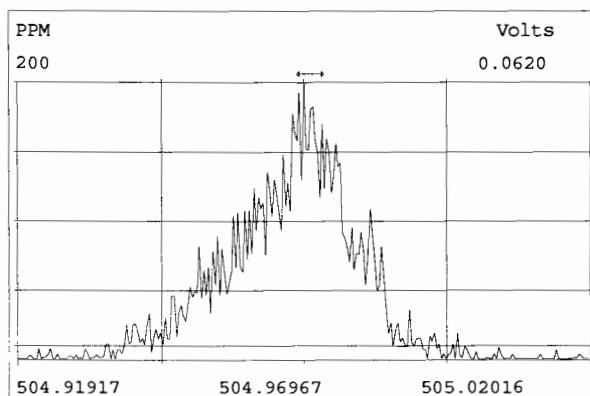
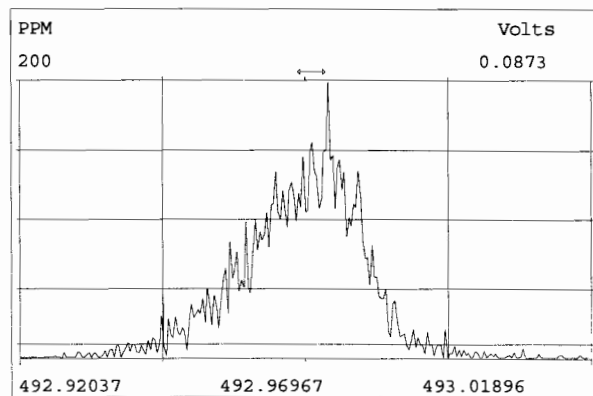
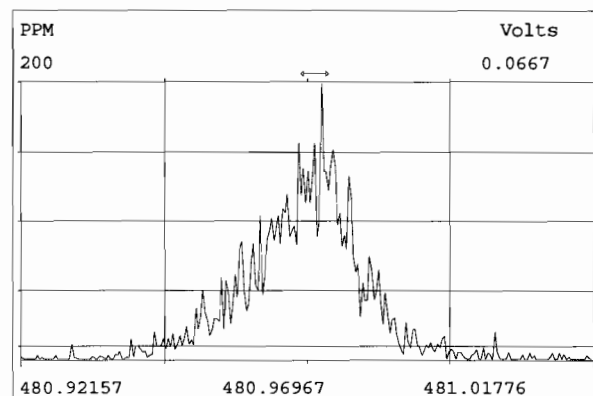
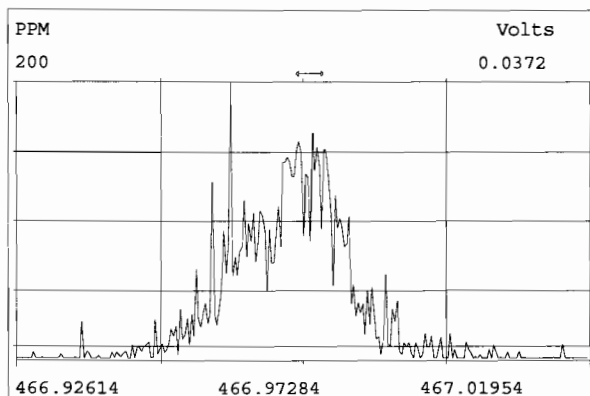
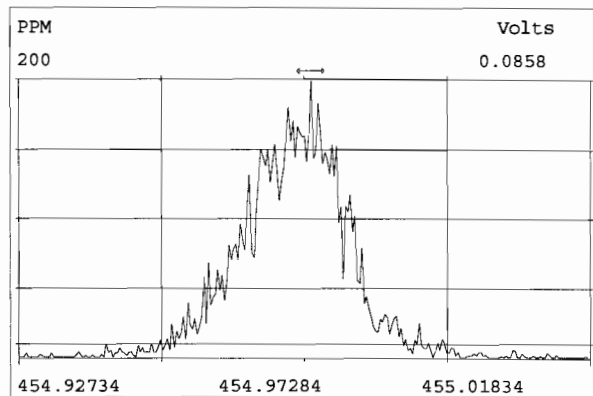
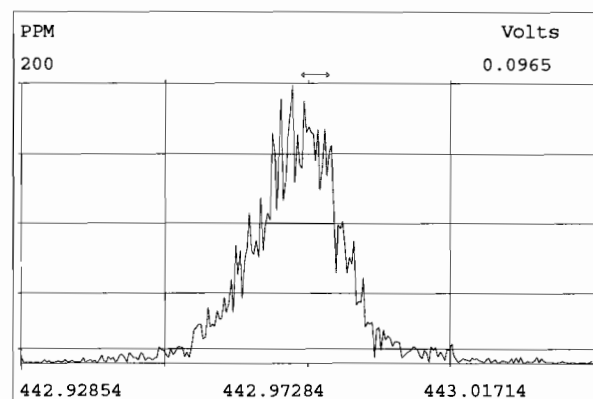
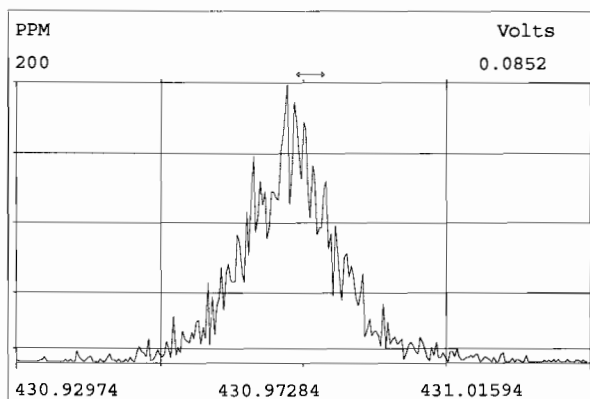
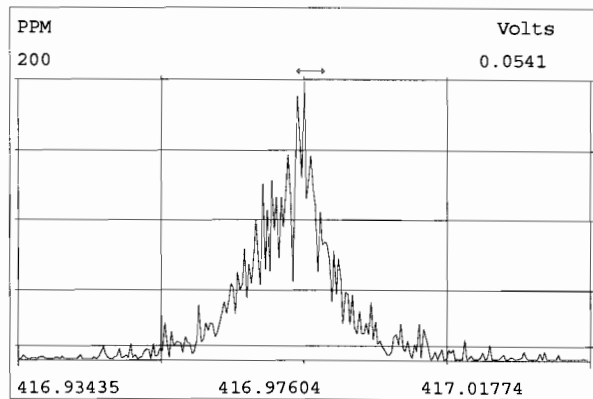


Peak Locate Examination:26-SEP-2014:14:33 File:140926E1

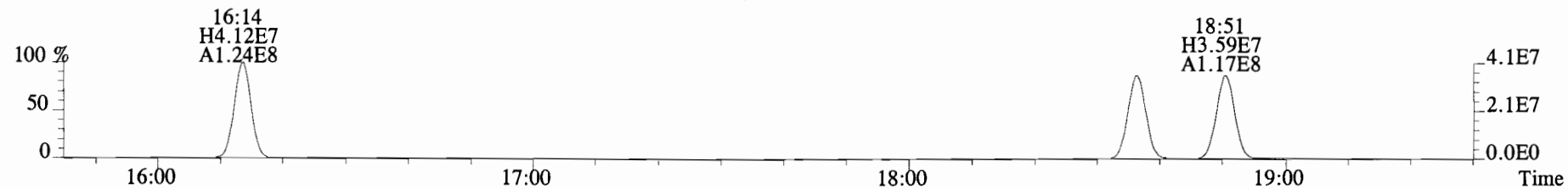
Experiment:PCB\_ZB1 Function:3 Reference:PFK



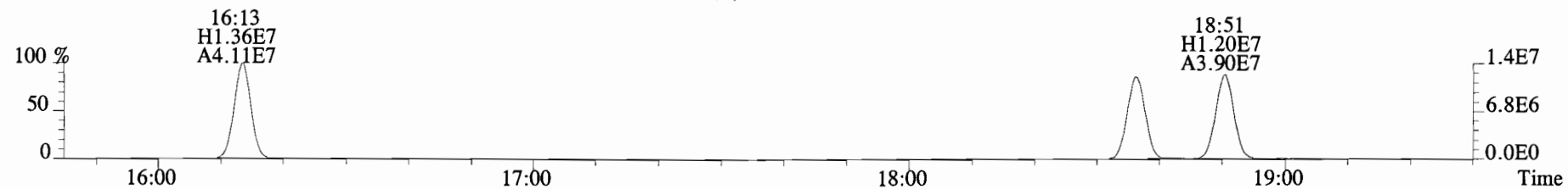




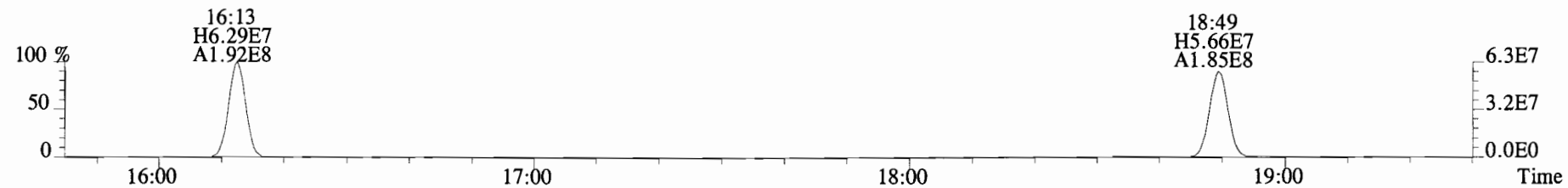
File:140926E1 #1-728 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
188.0393 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11548.0,0.00%,F,F)



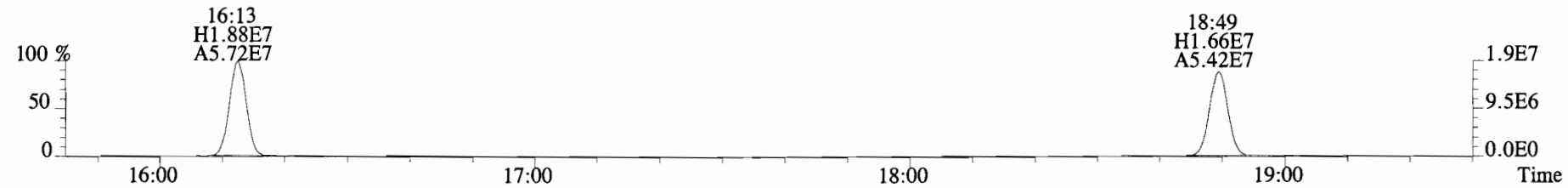
190.0363 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8068.0,0.00%,F,F)



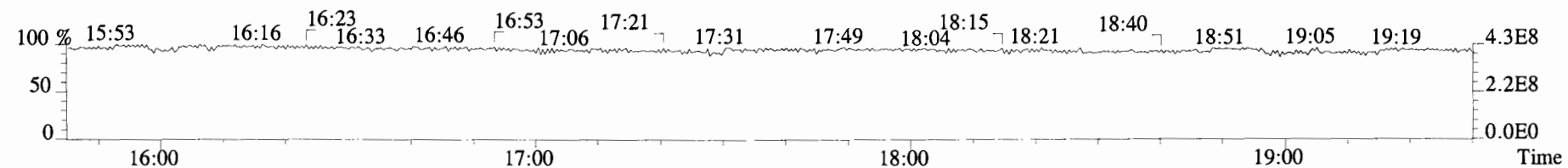
200.0795 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9192.0,0.00%,F,F)



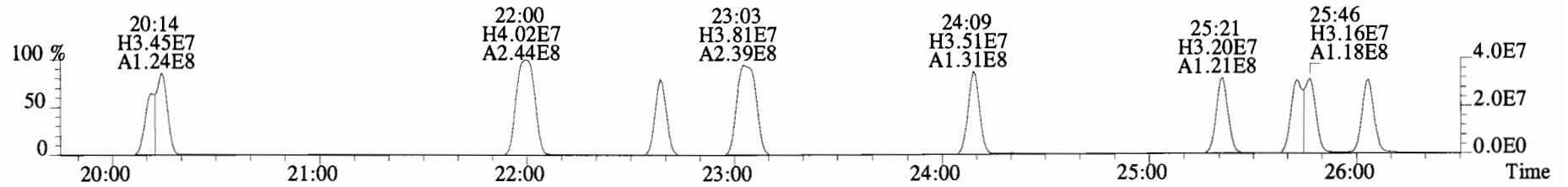
202.0766 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46172.0,0.00%,F,F)



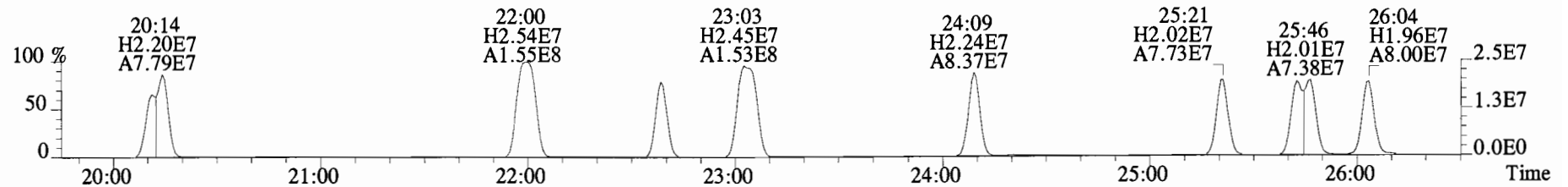
180.9880



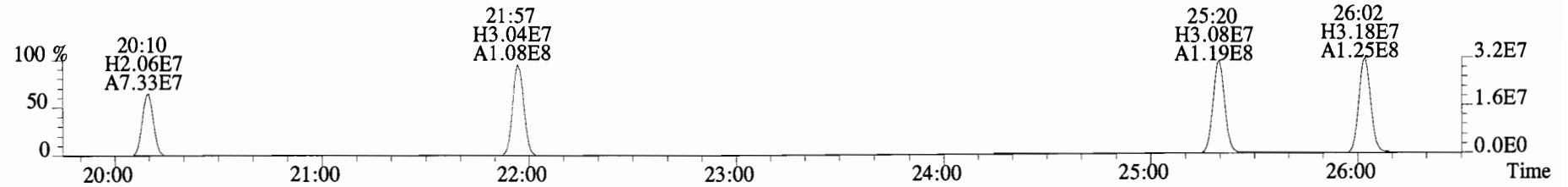
File:140926E1 #1-757 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9812.0,0.00%,F,F)



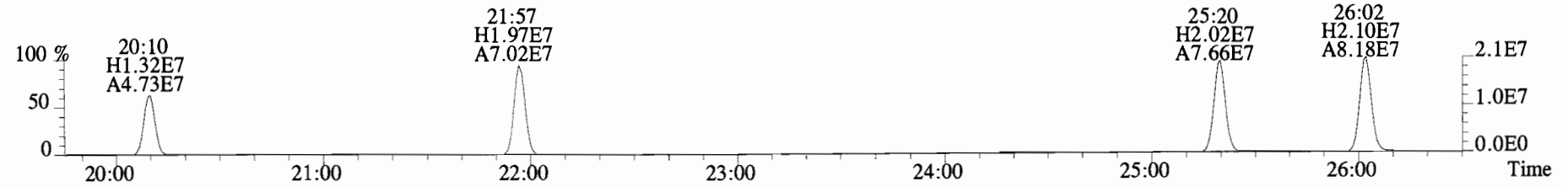
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25484.0,0.00%,F,F)



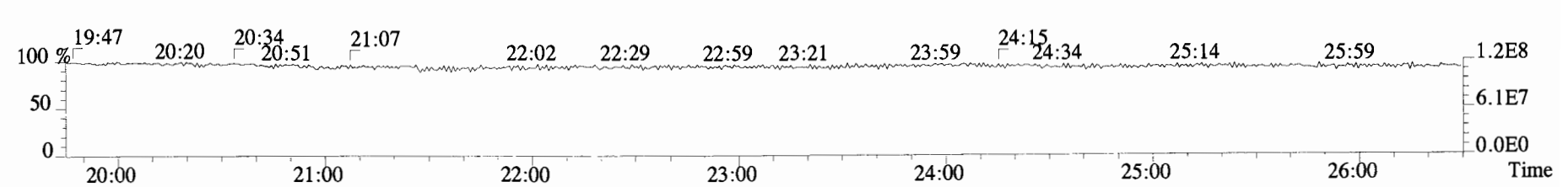
234.0406 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5712.0,0.00%,F,F)



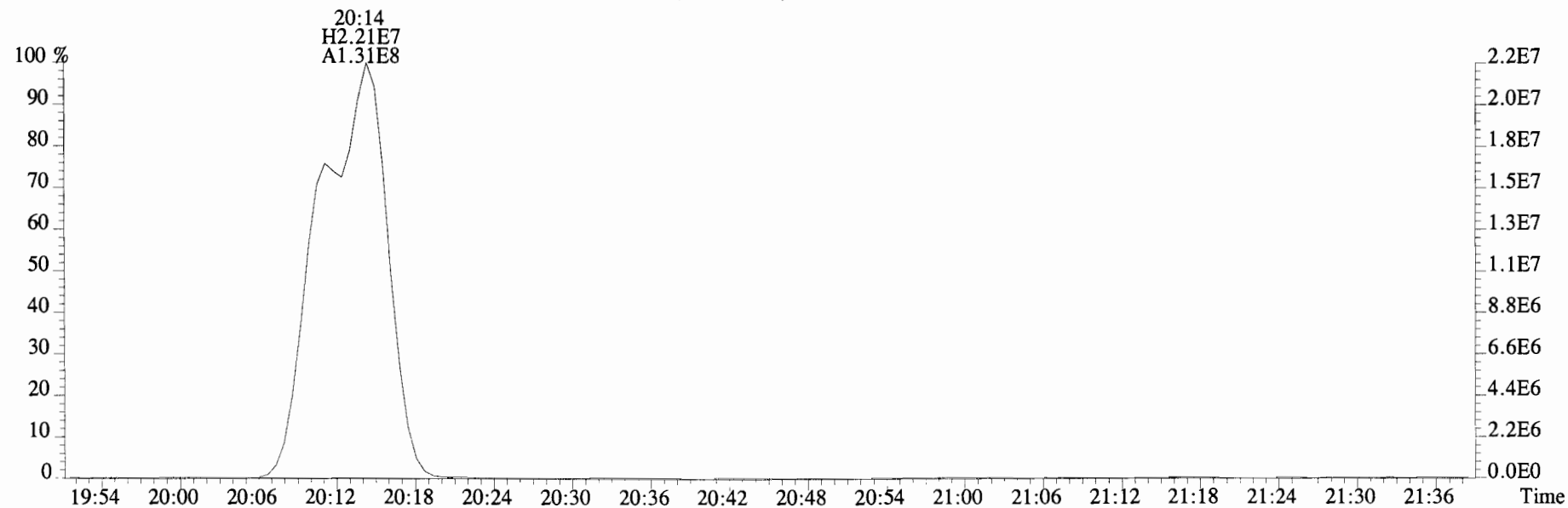
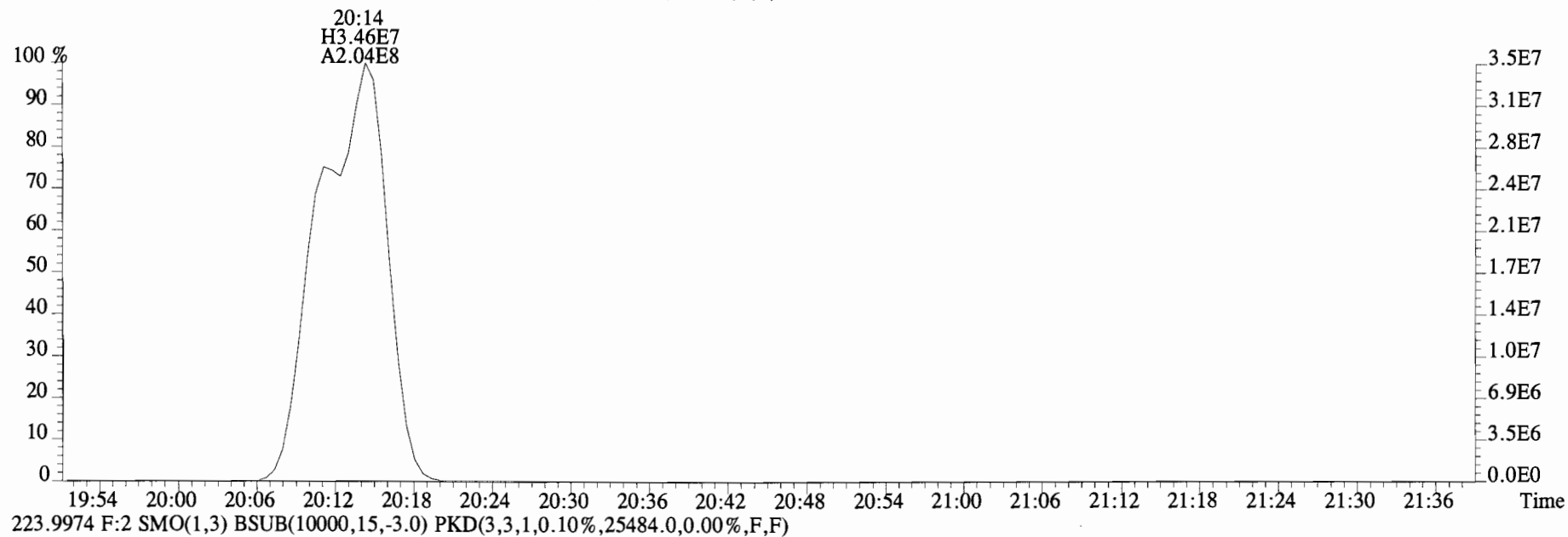
236.0376 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7584.0,0.00%,F,F)



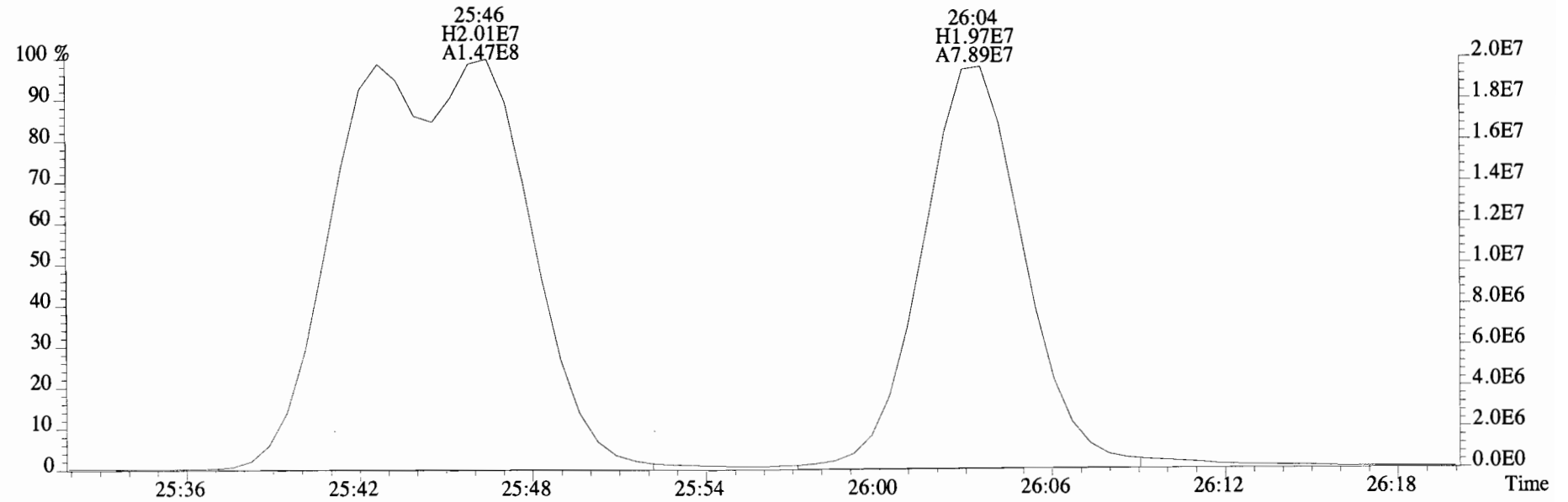
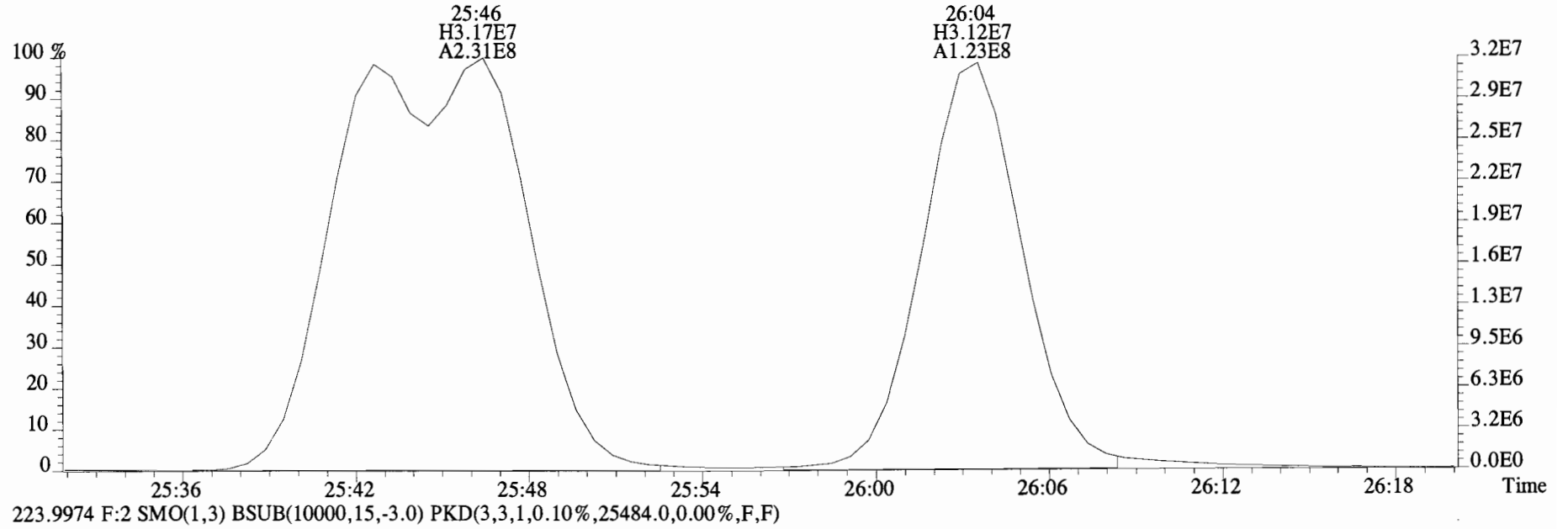
230.9856 F:2



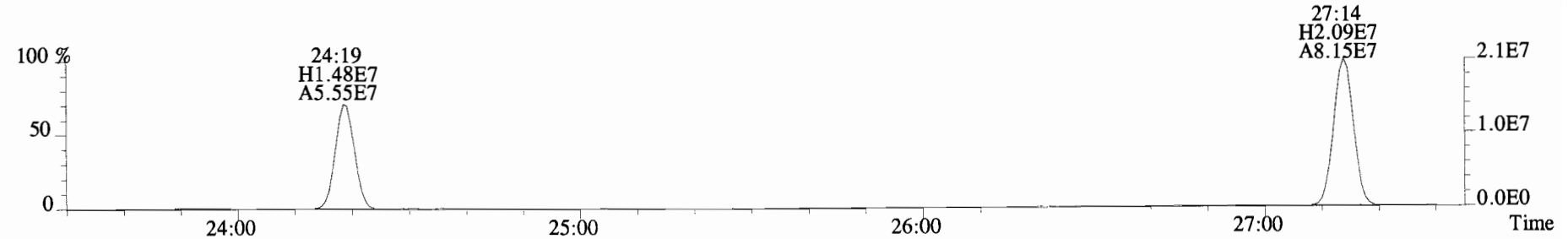
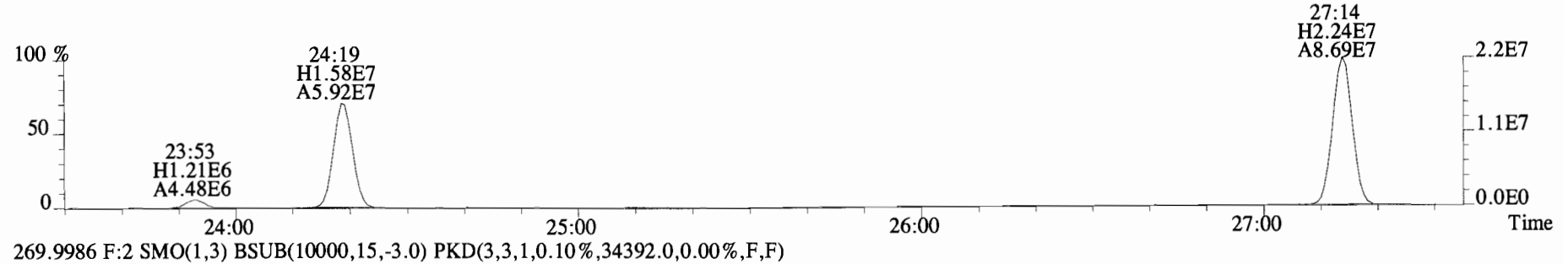
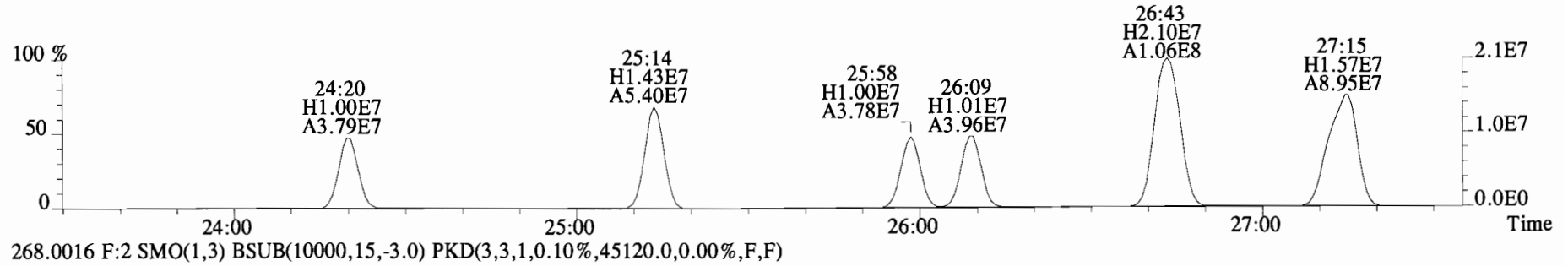
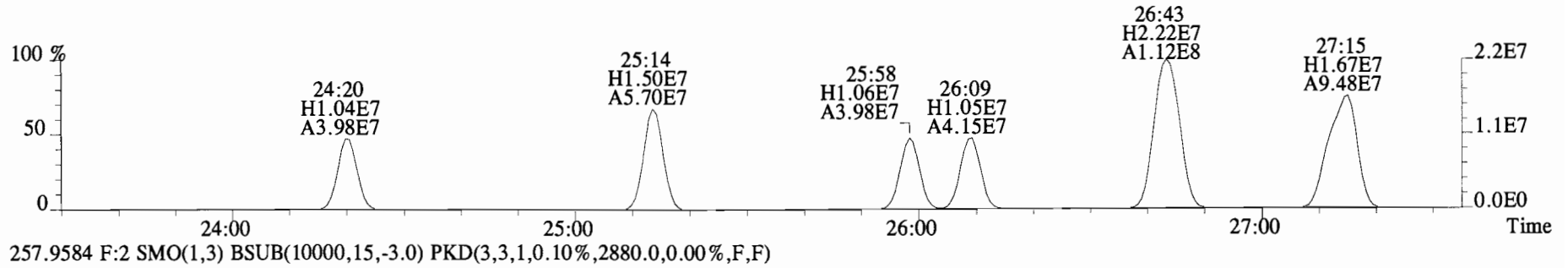
File:140926E1 #1-757 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9812.0,0.00%,F,F)



File:140926E1 #1-757 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9812.0,0.00%,F,F)

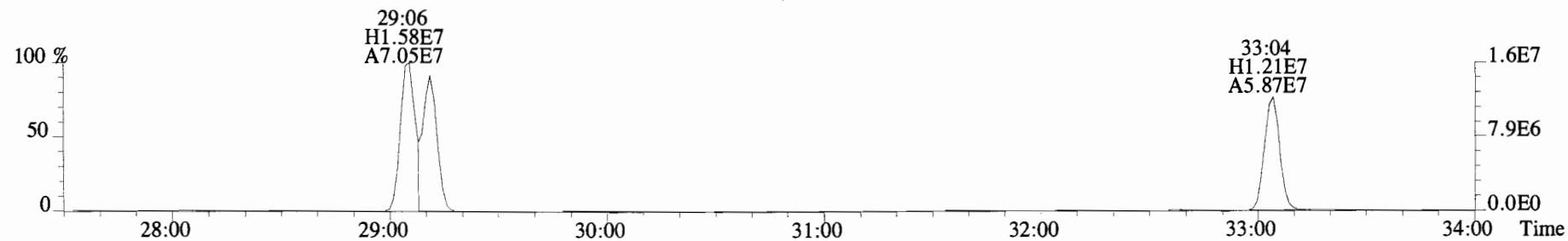
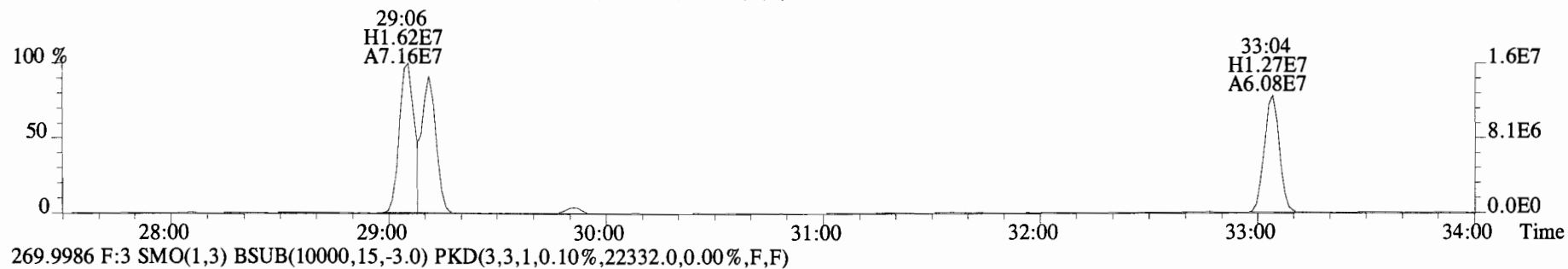
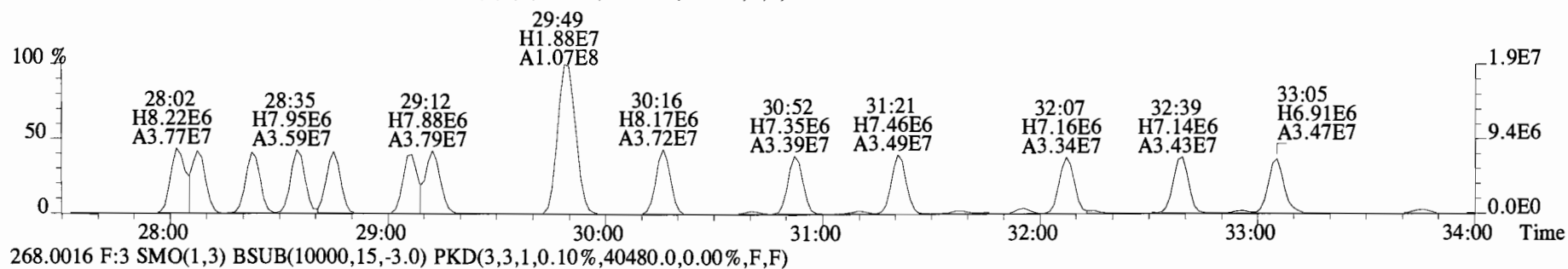
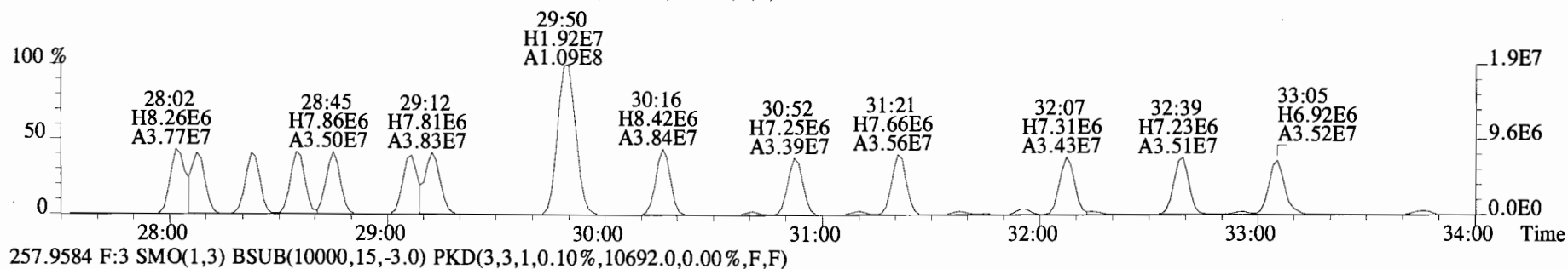


File:140926E1 #1-757 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4964.0,0.00%,F,F)

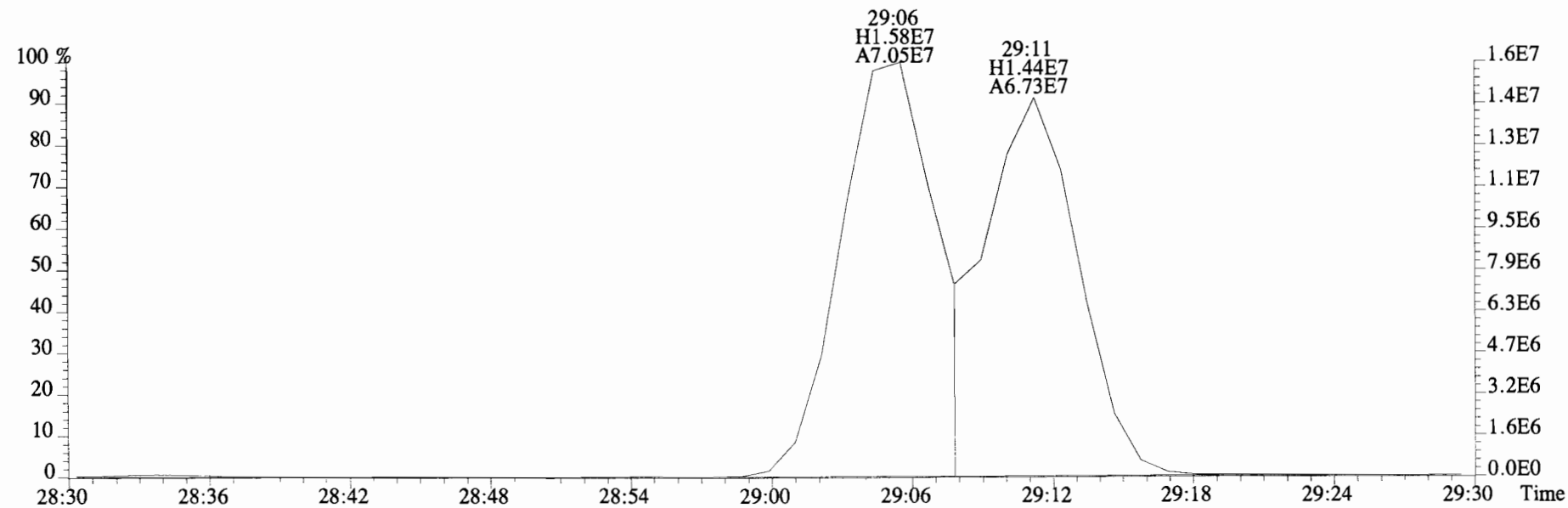
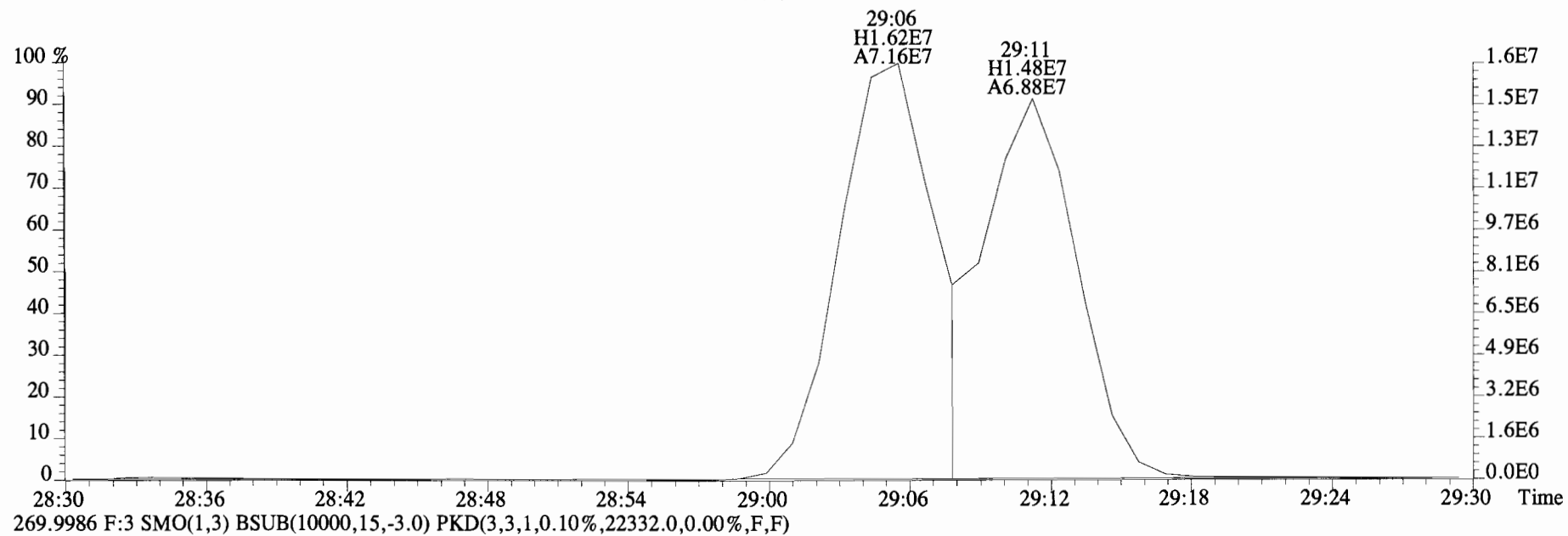




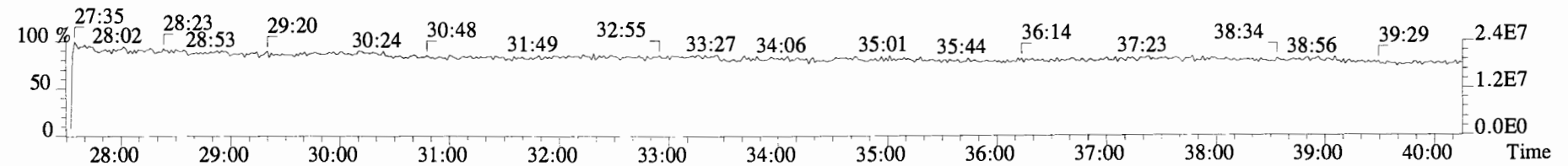
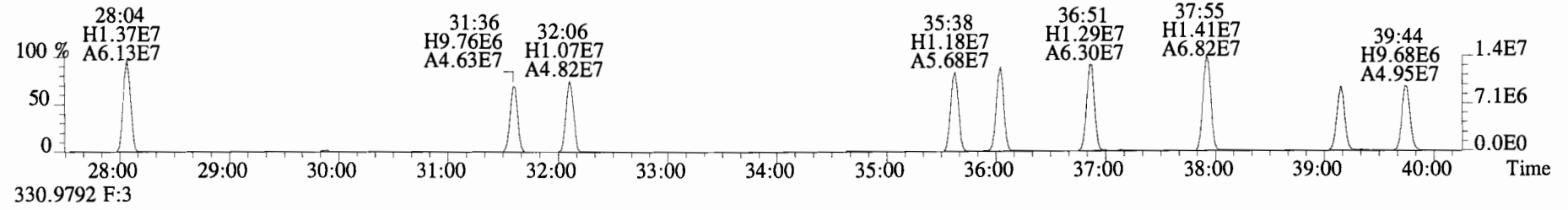
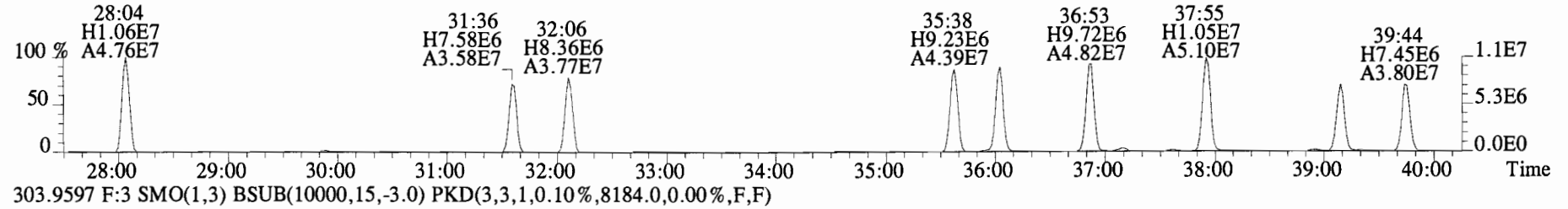
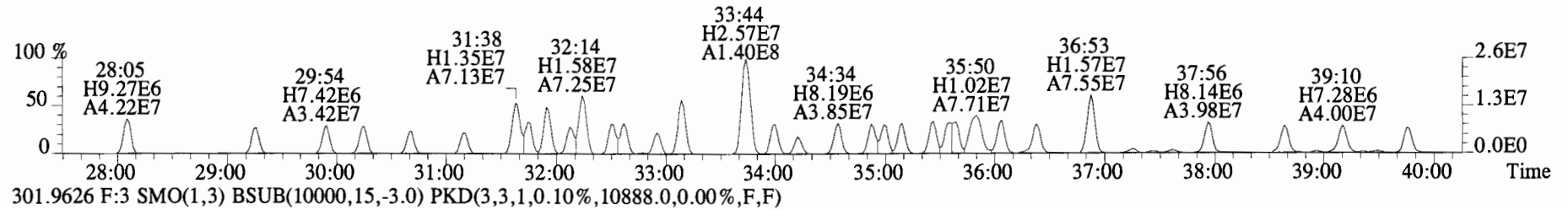
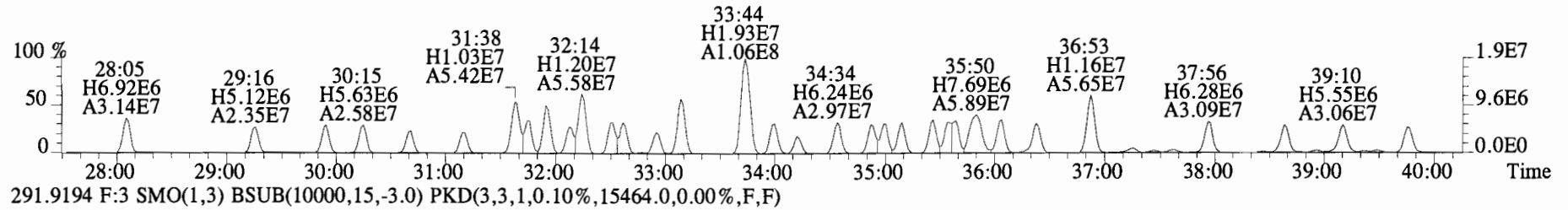
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9164.0,0.00%,F,F)



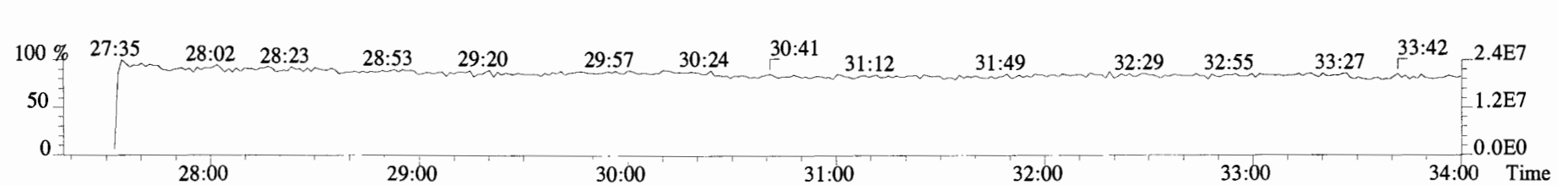
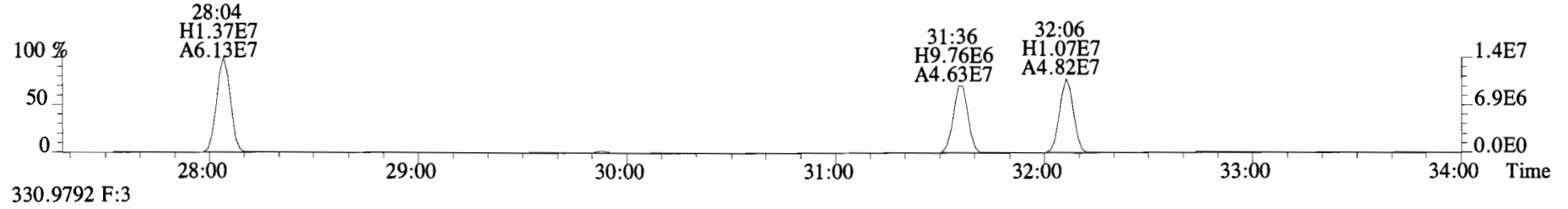
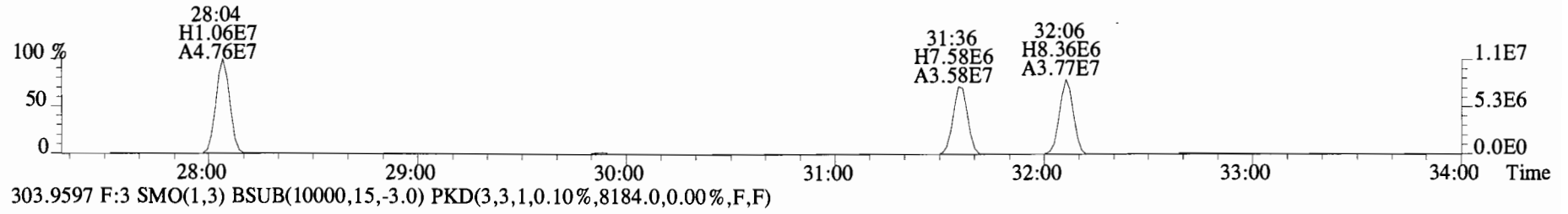
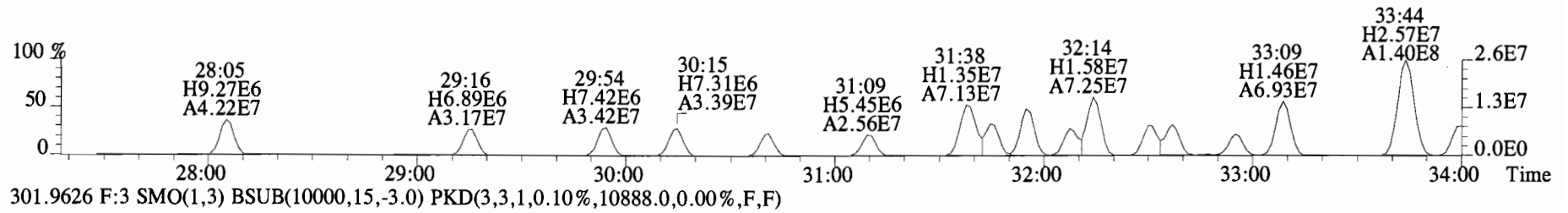
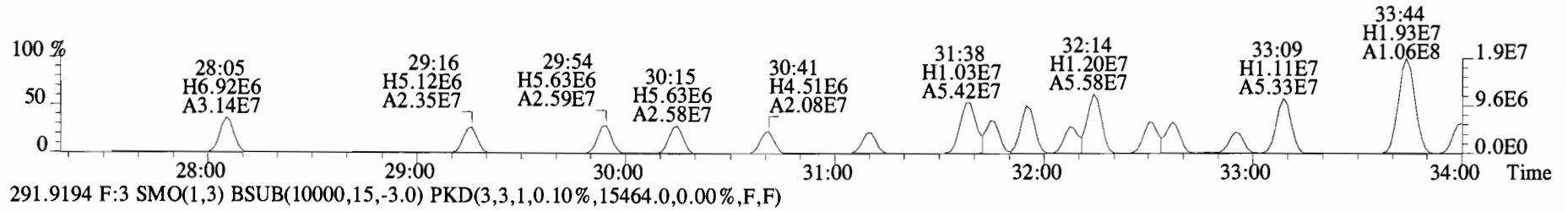
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
268.0016 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40480.0,0.00%,F,F)



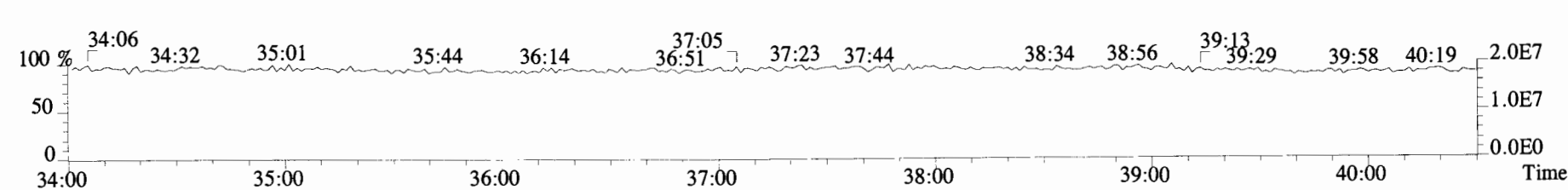
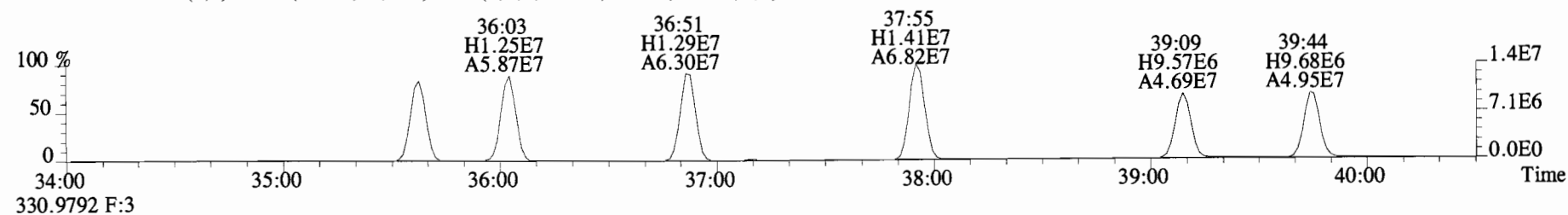
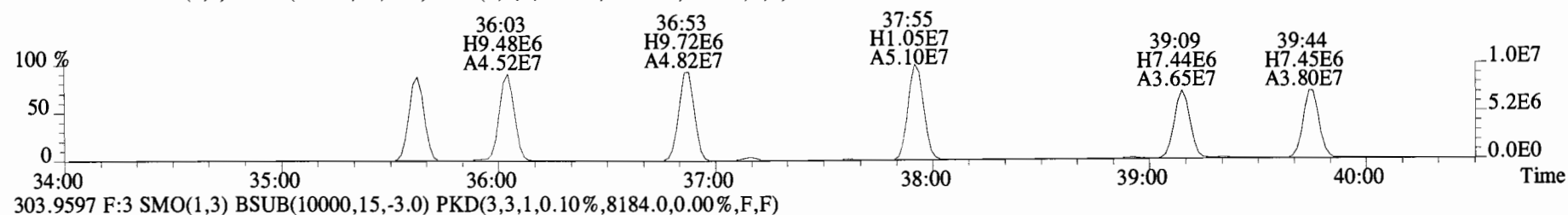
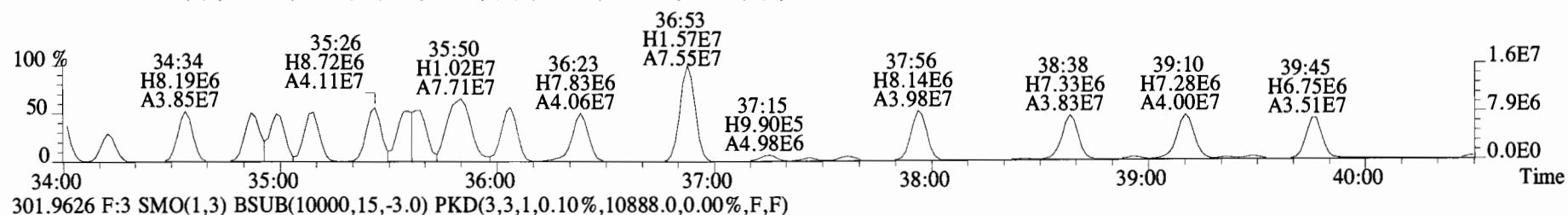
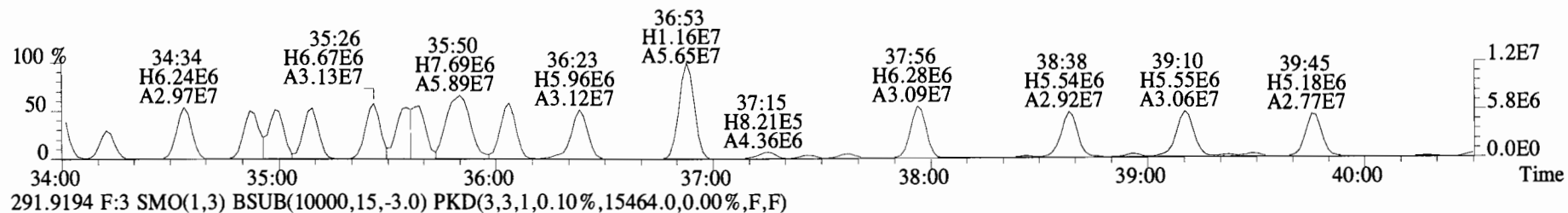
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12272.0,0.00%,F,F)



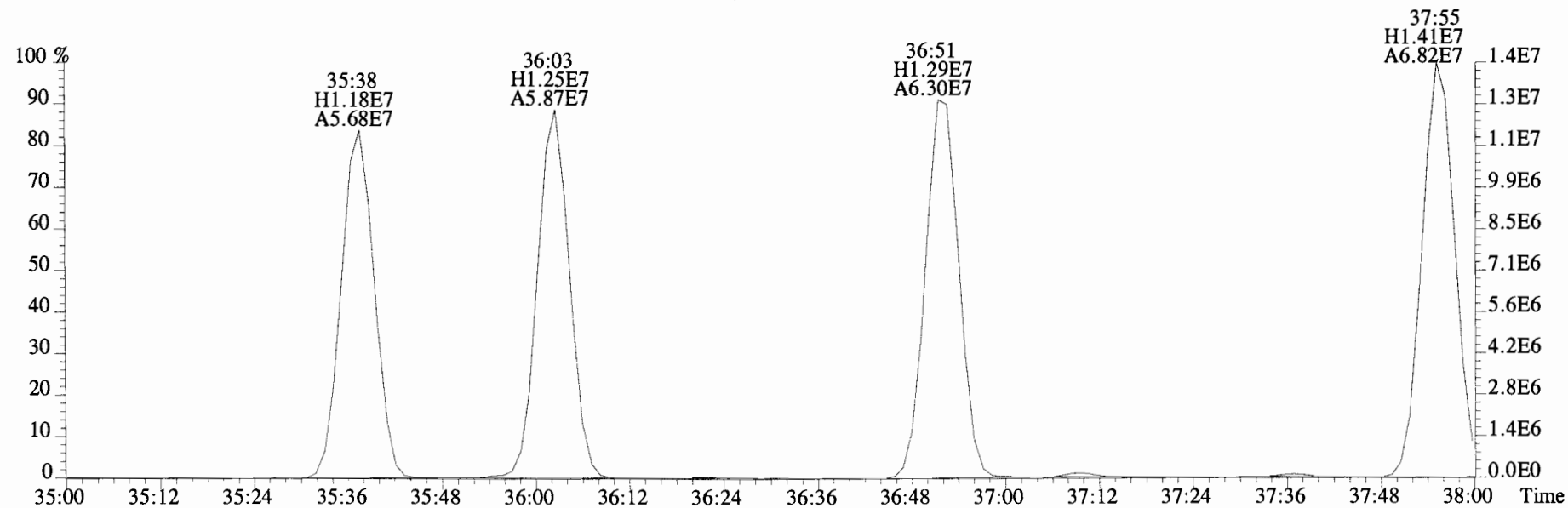
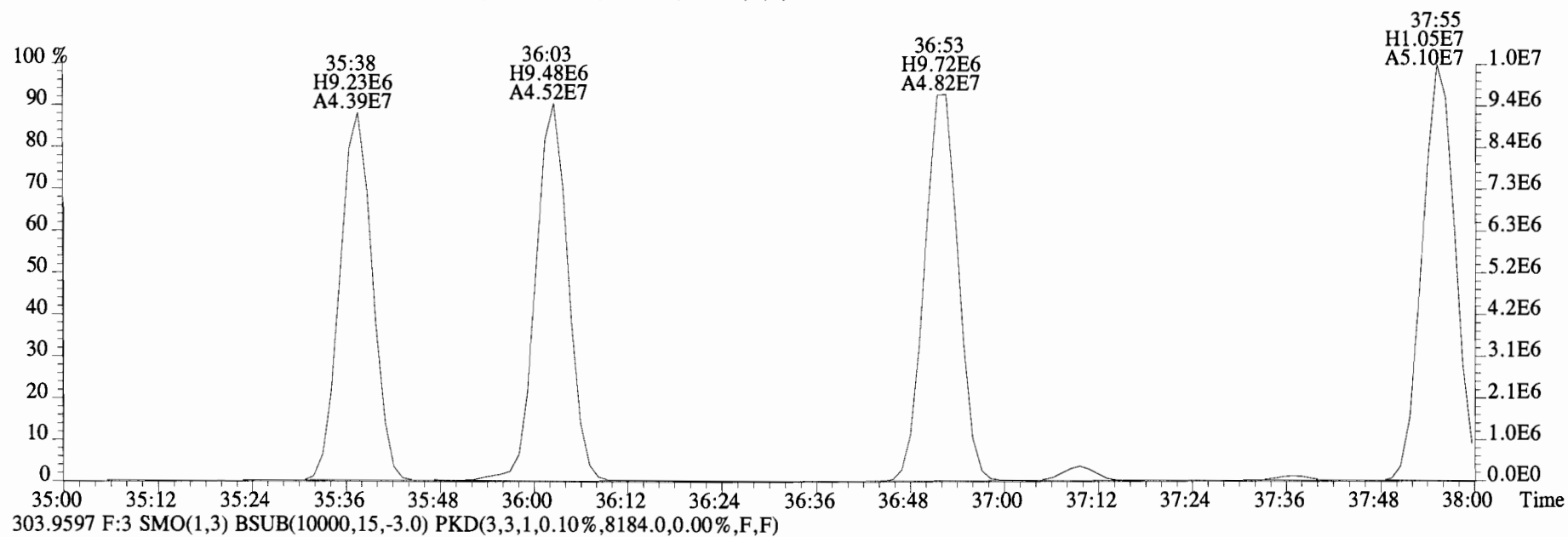
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12272.0,0.00%,F,F)



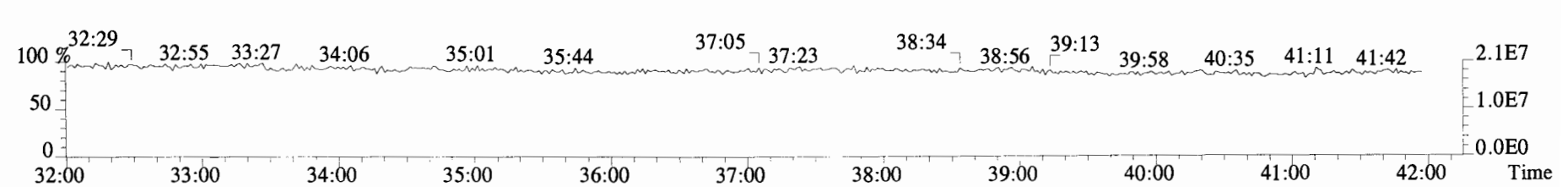
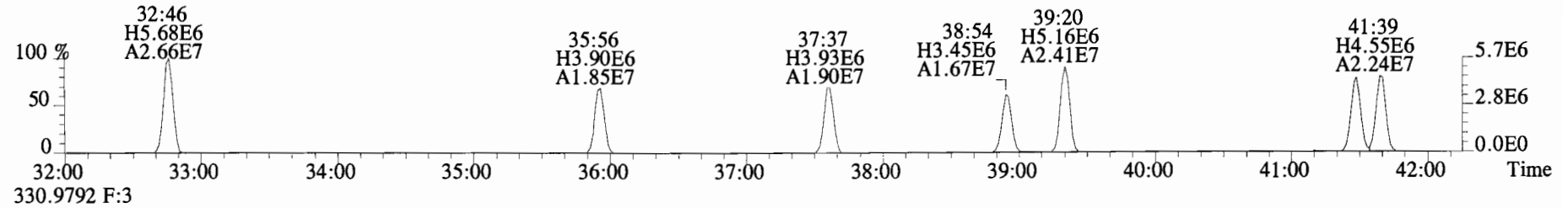
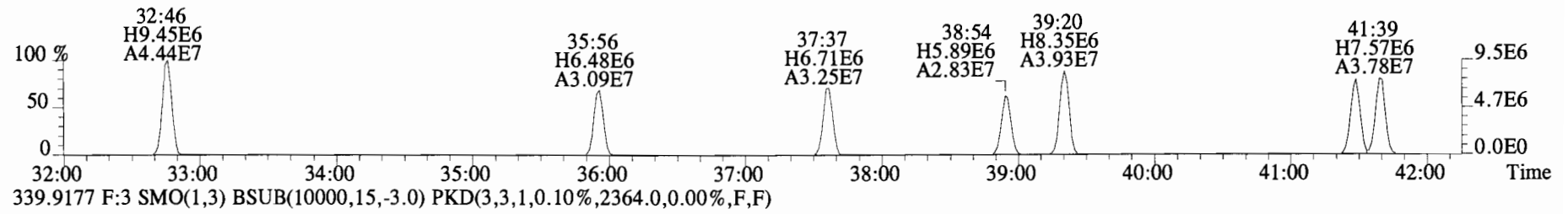
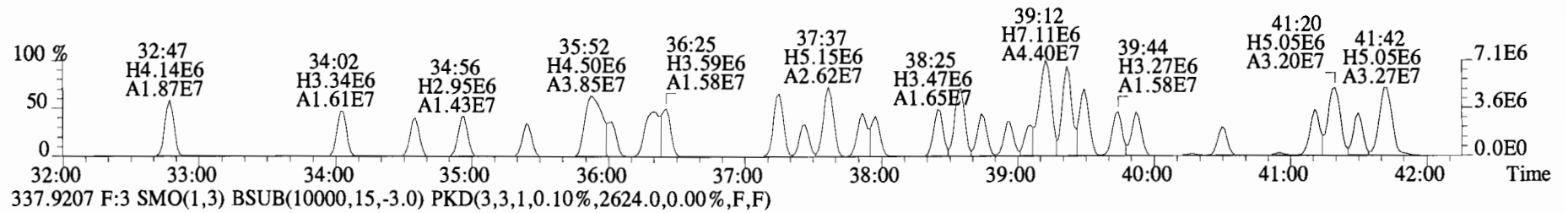
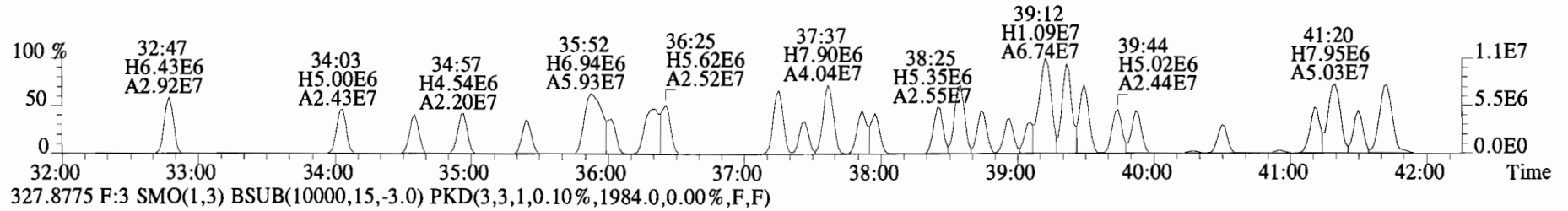
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12272.0,0.00%,F,F)



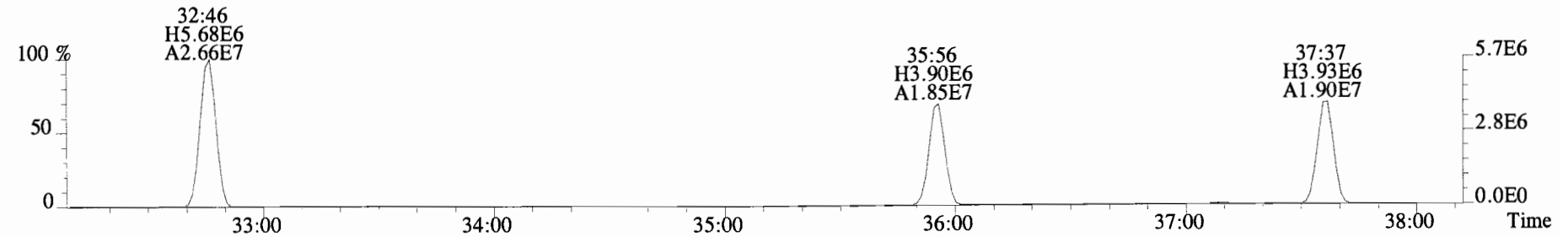
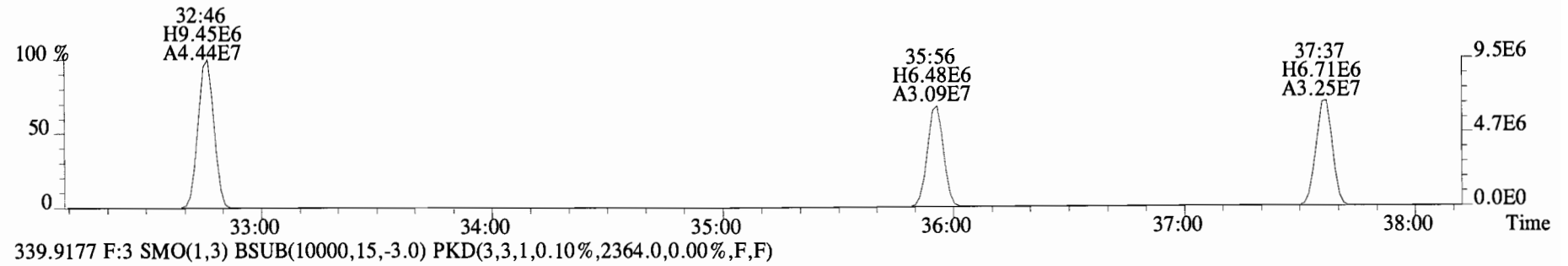
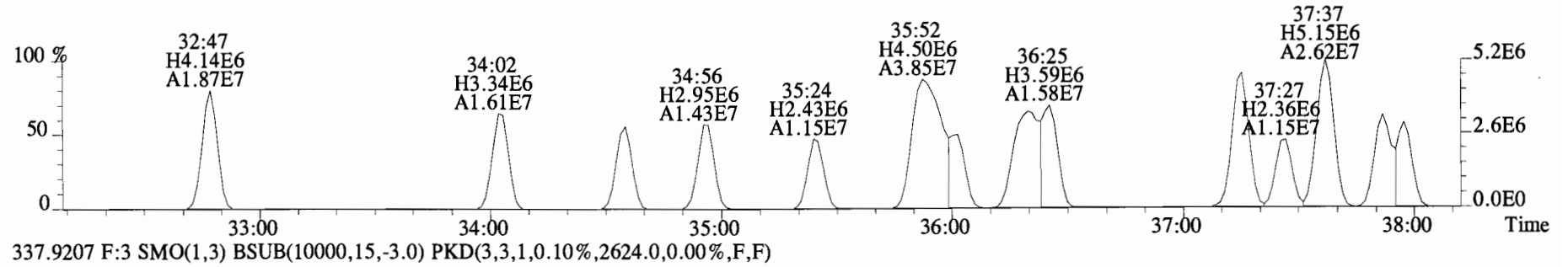
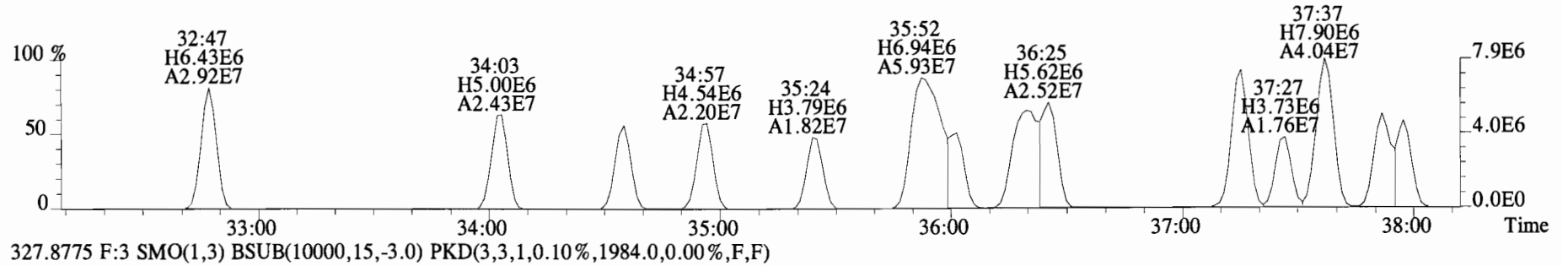
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
301.9626 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10888.0,0.00%,F,F)



File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)

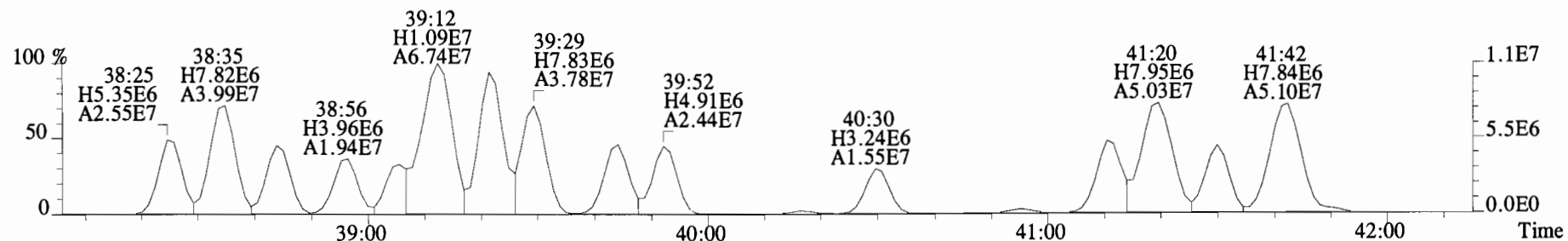


File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)

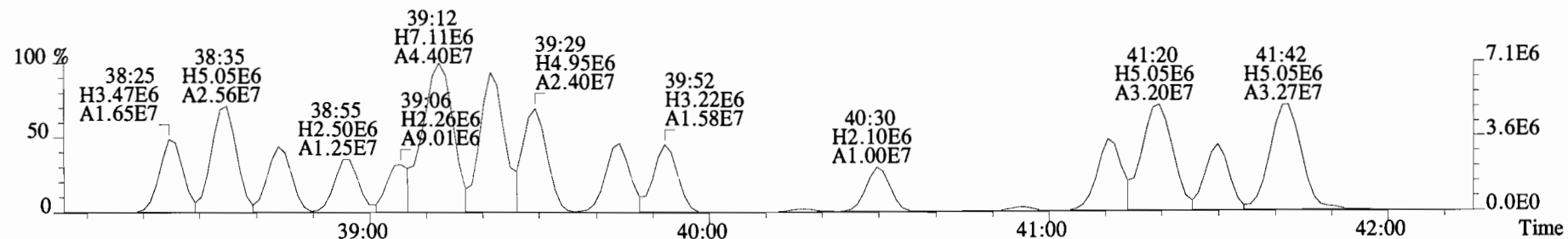




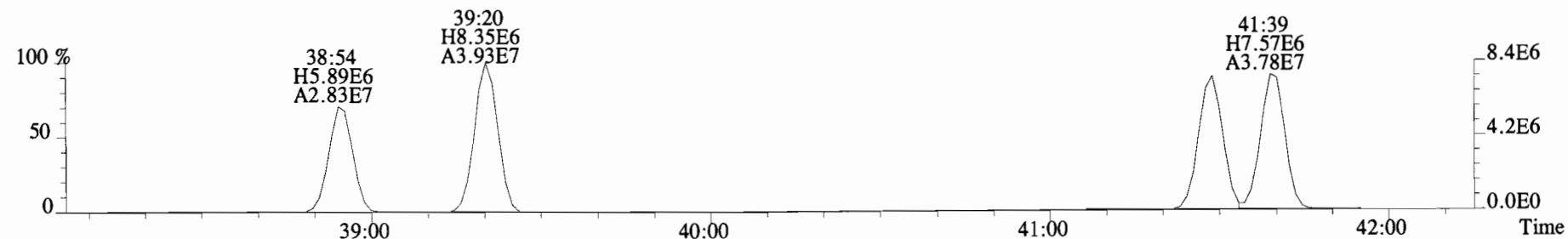
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



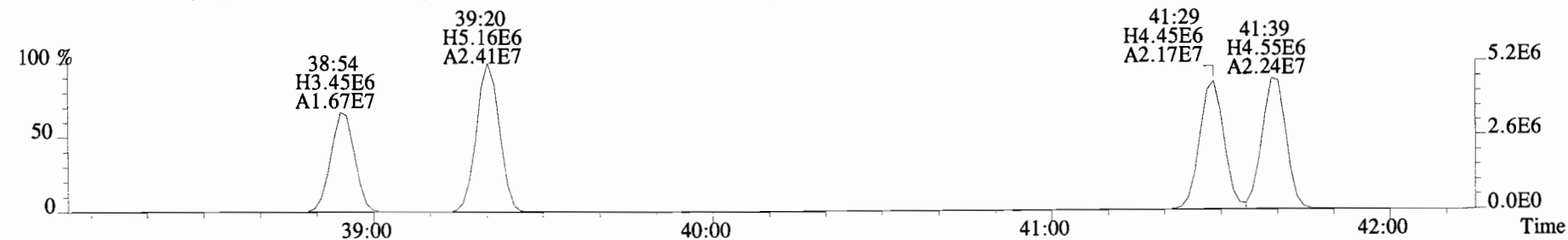
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1984.0,0.00%,F,F)



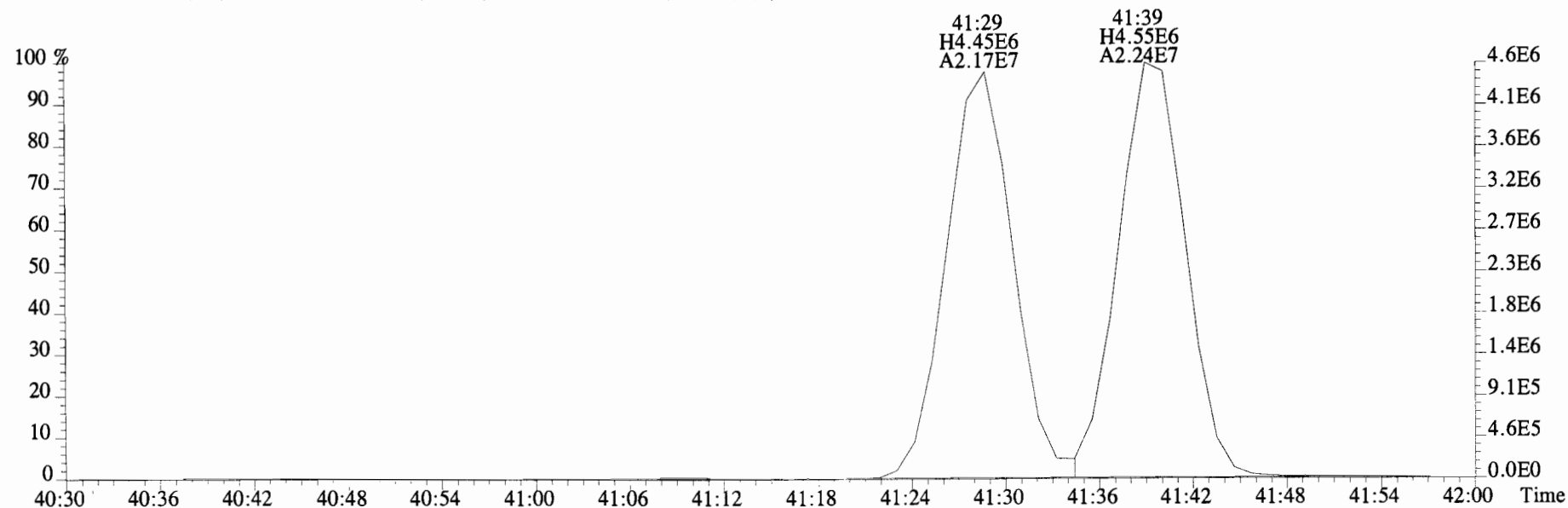
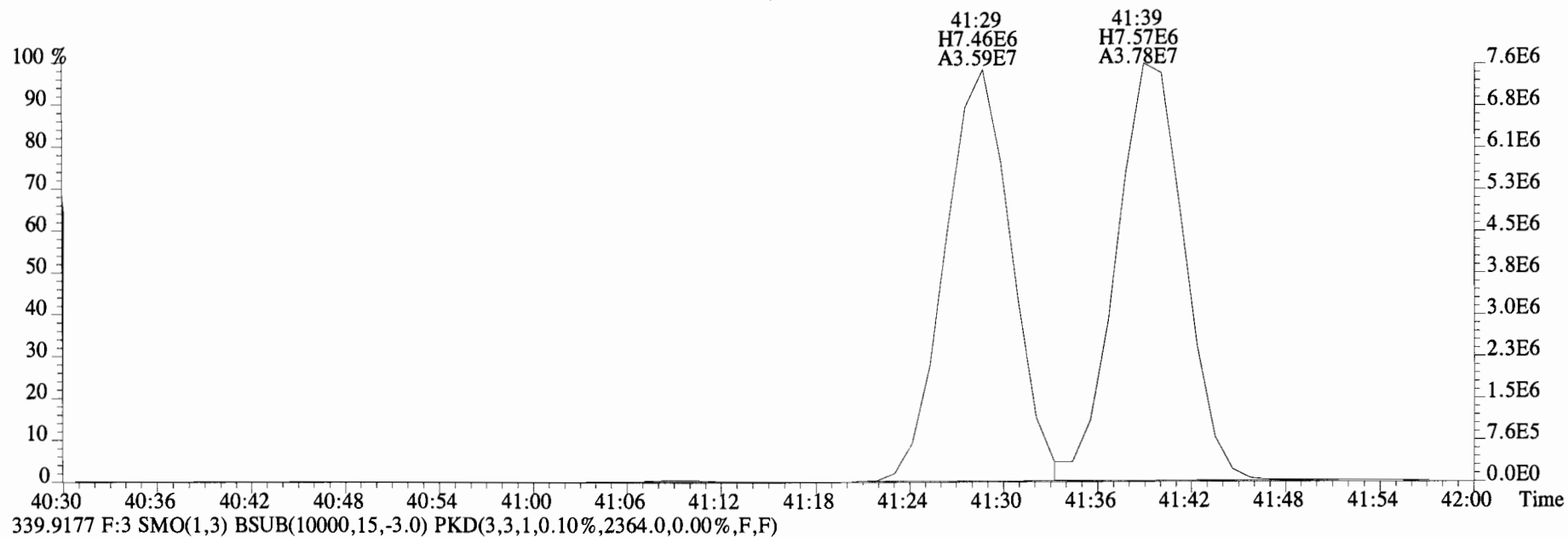
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2624.0,0.00%,F,F)



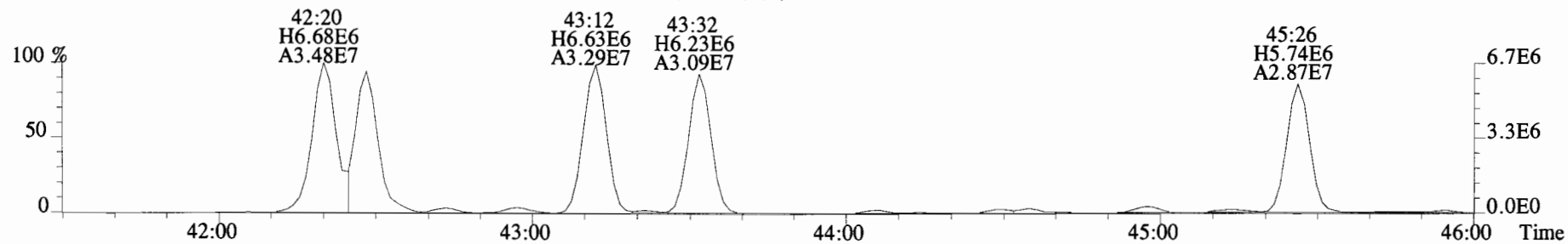
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



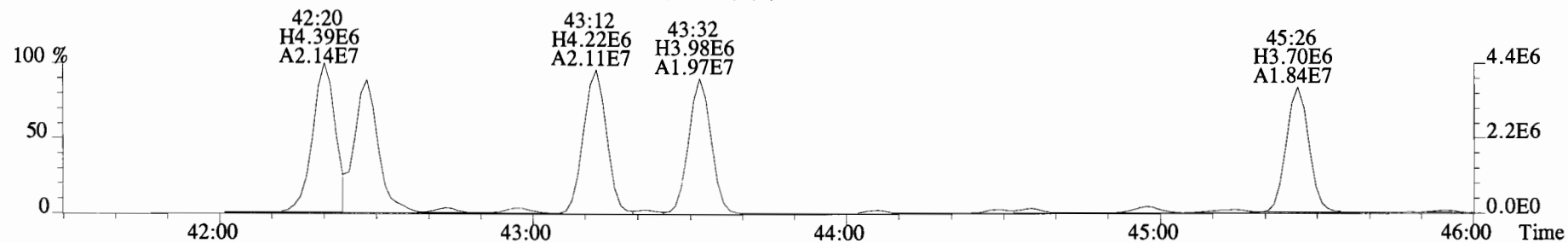
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2624.0,0.00%,F,F)



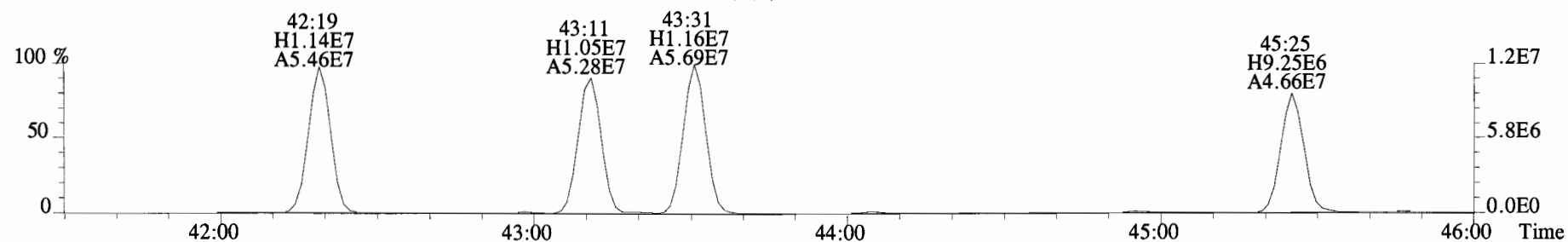
File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11672.0,0.00%,F,F)



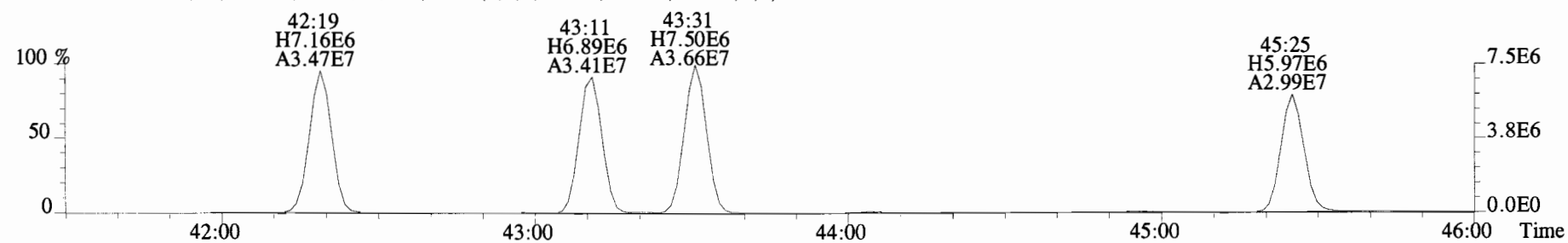
327.8775 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6064.0,0.00%,F,F)



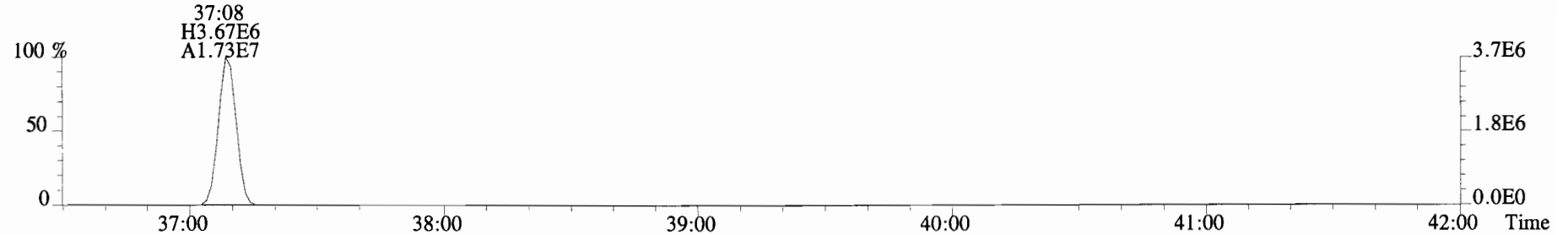
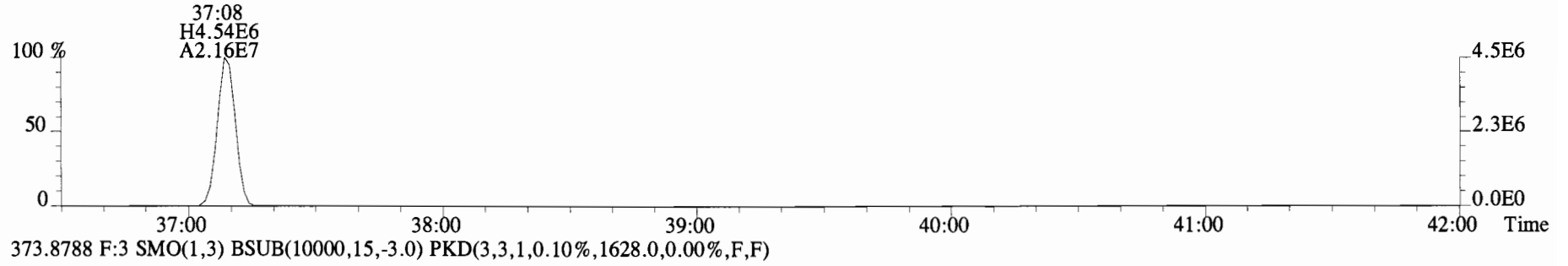
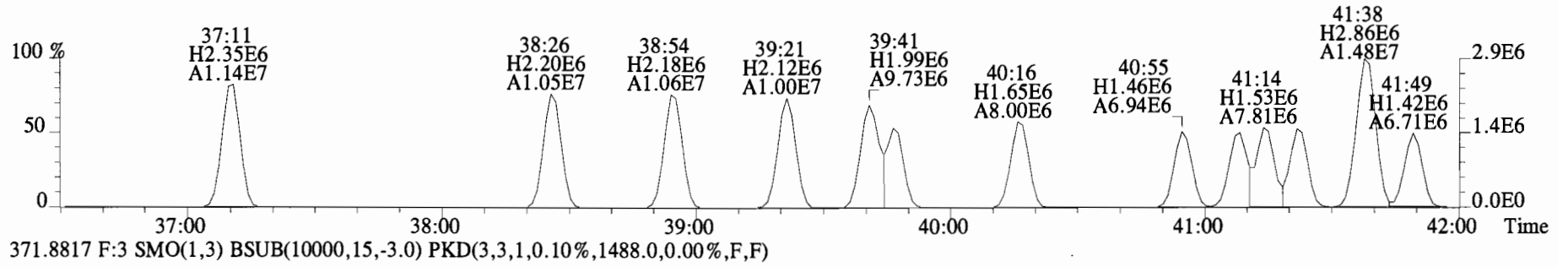
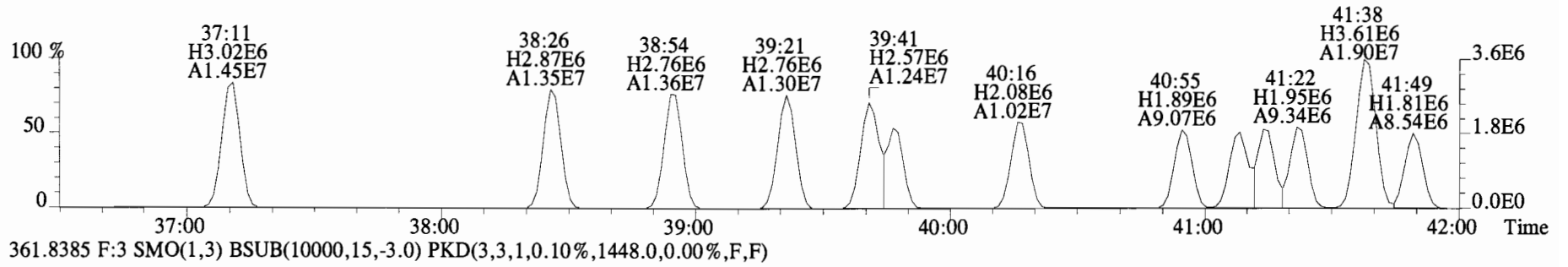
337.9207 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6536.0,0.00%,F,F)



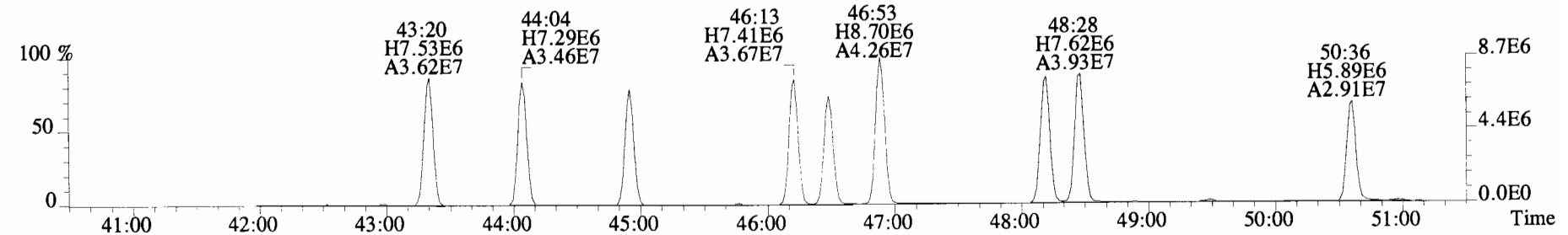
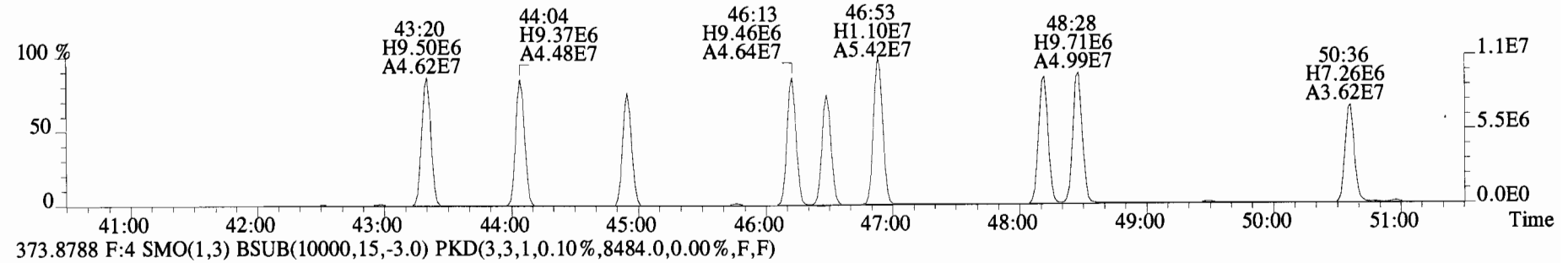
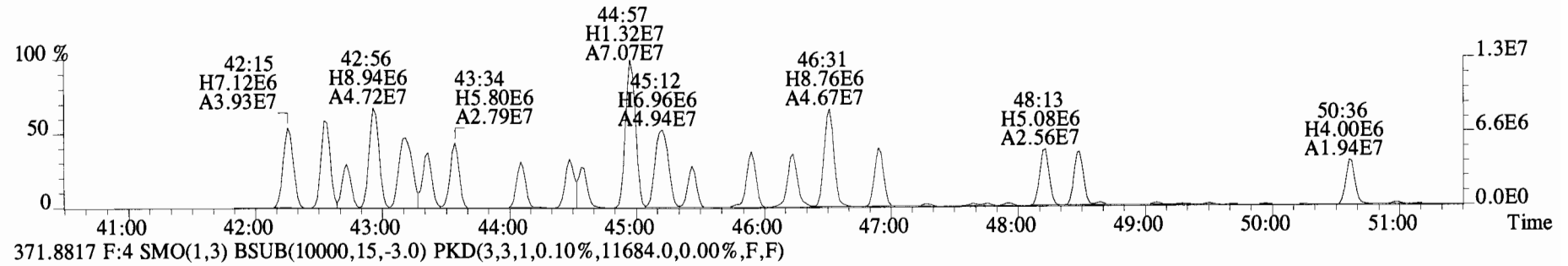
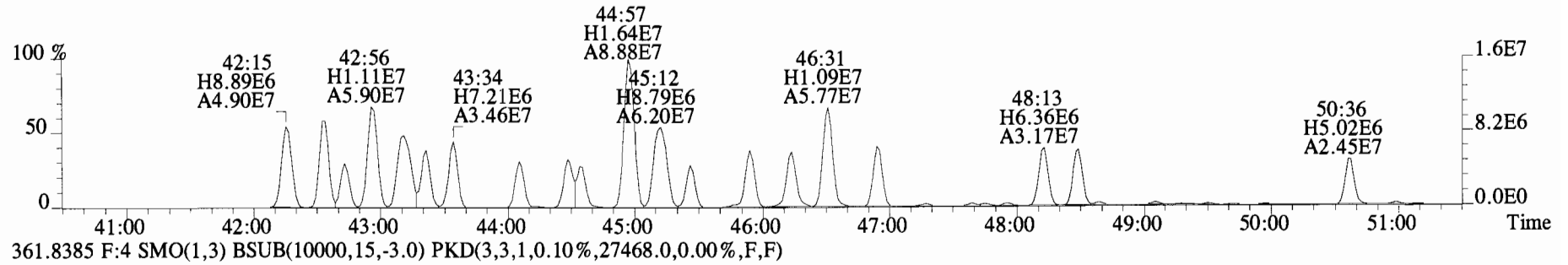
339.9177 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5316.0,0.00%,F,F)



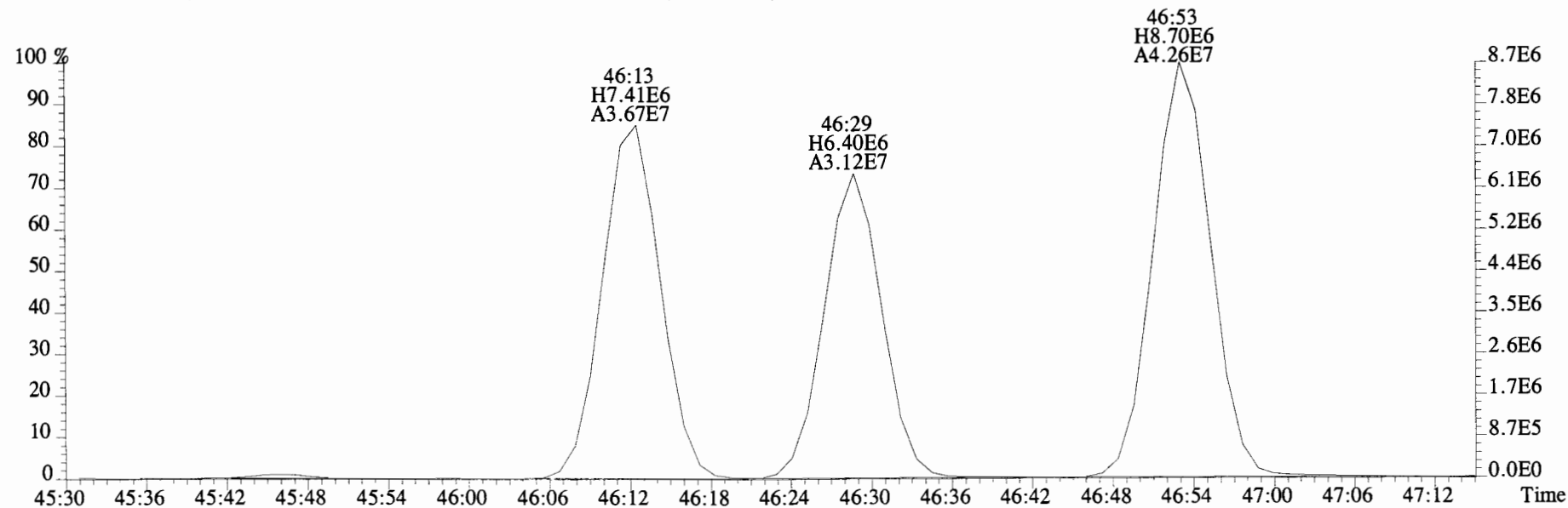
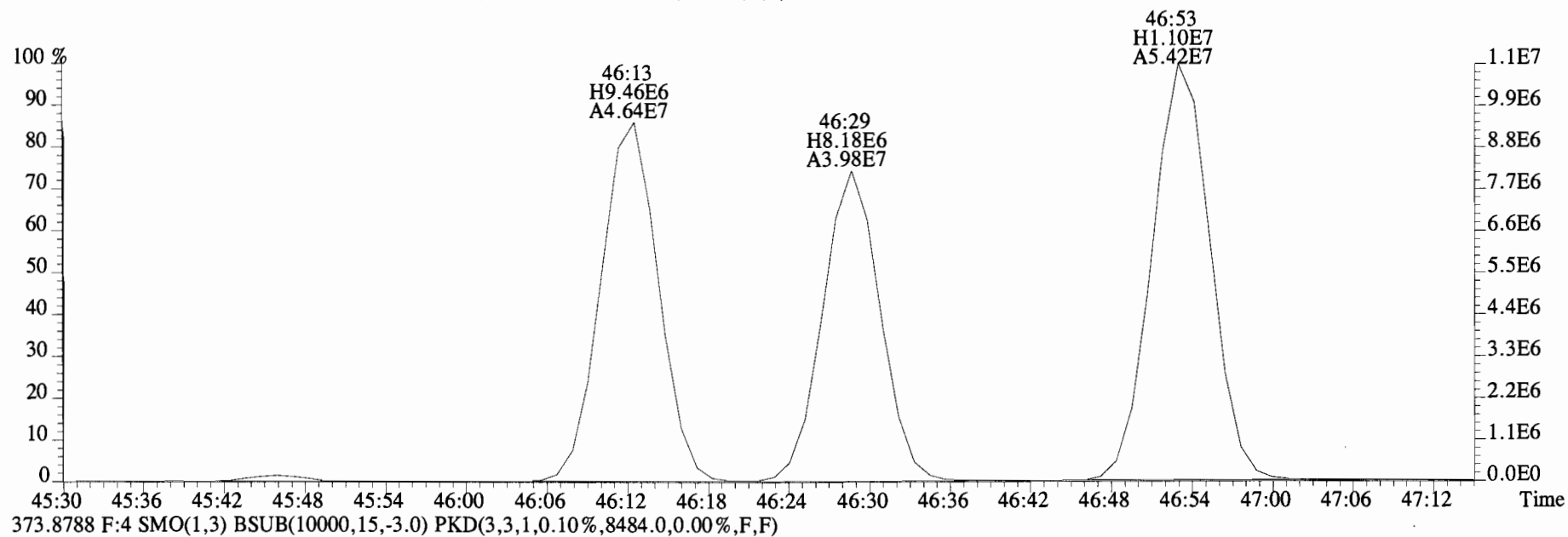
File:140926E1 #1-762 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1416.0,0.00%,F,F)



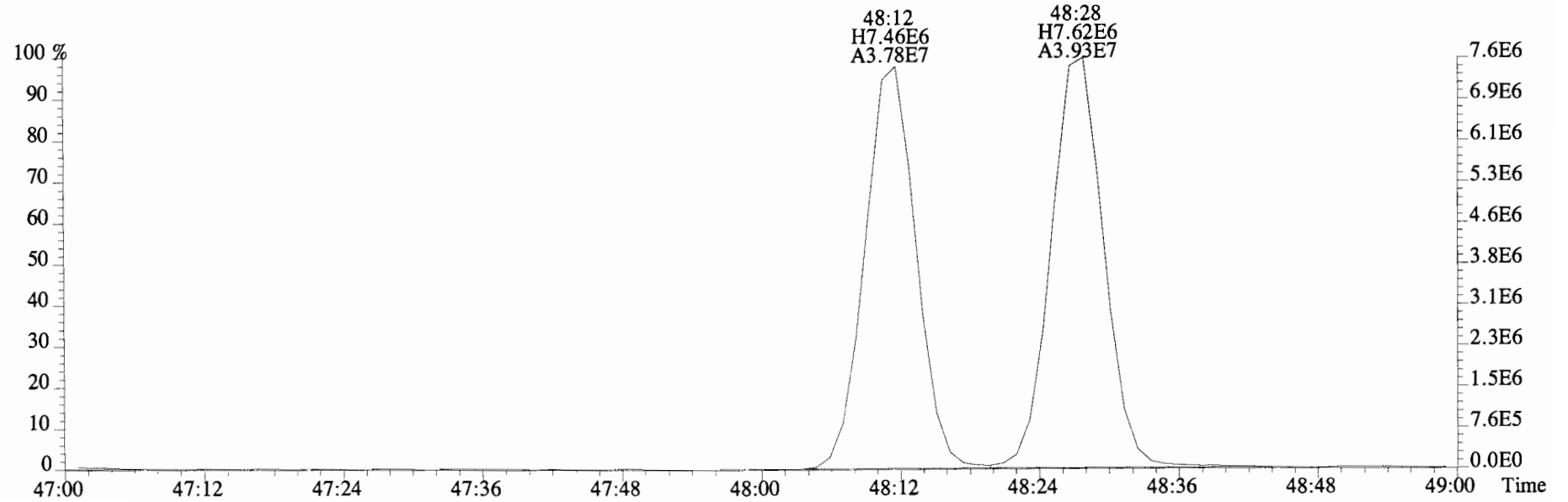
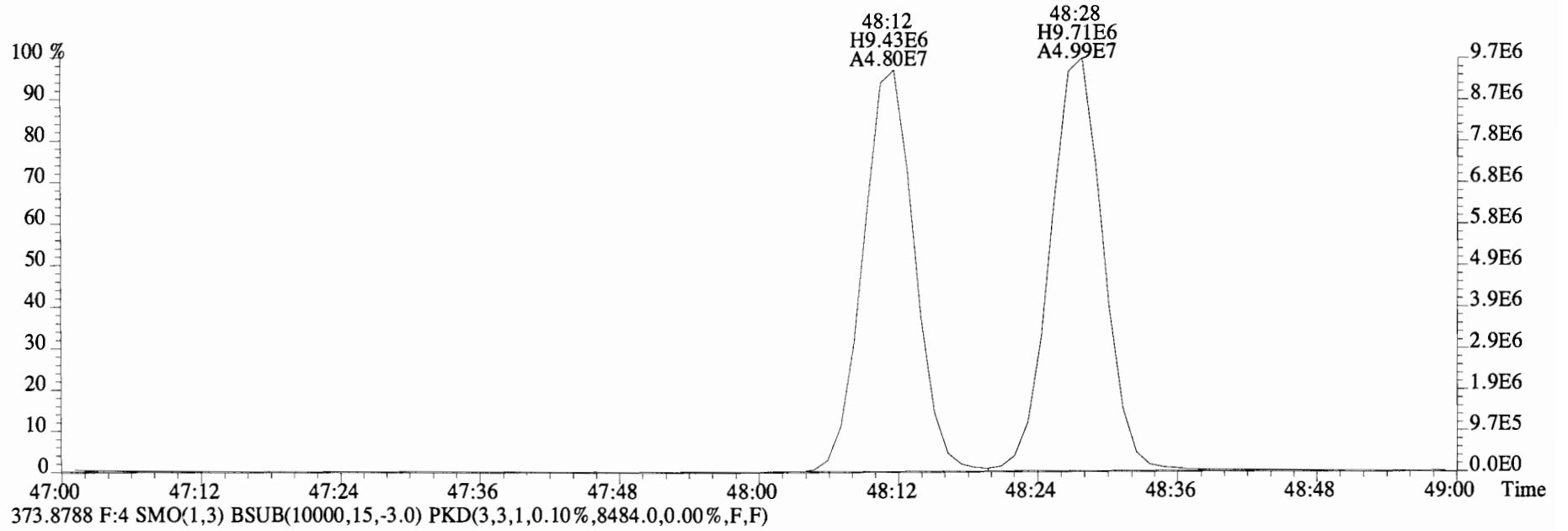
File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30312.0,0.00%,F,F)



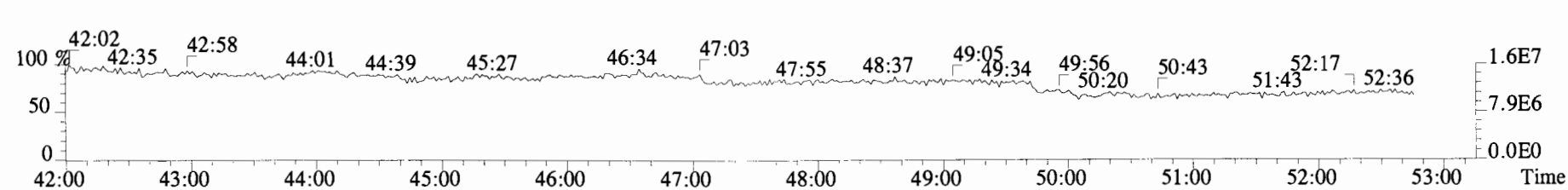
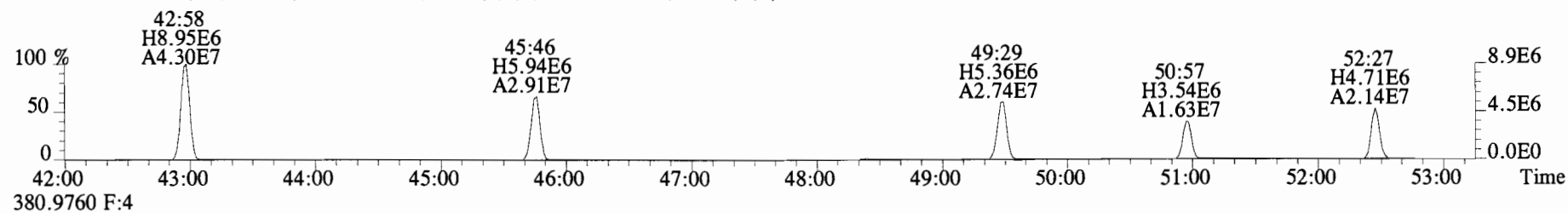
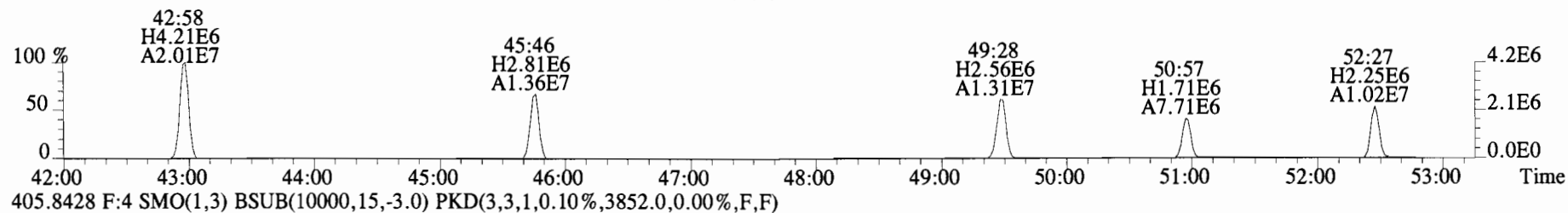
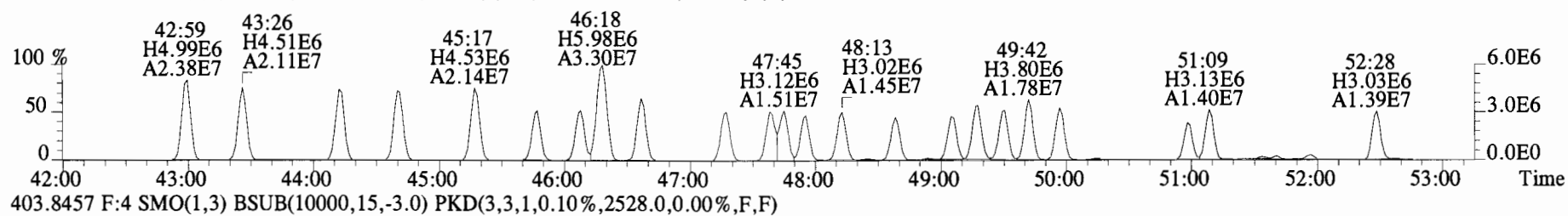
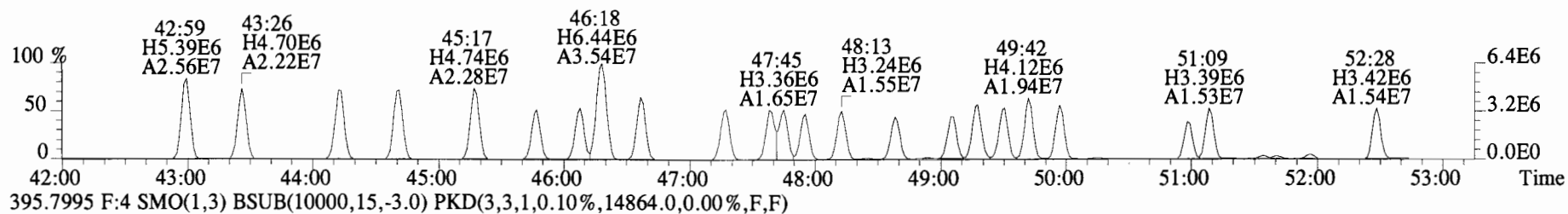
File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11684.0,0.00%,F,F)



File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11684.0,0.00%,F,F)

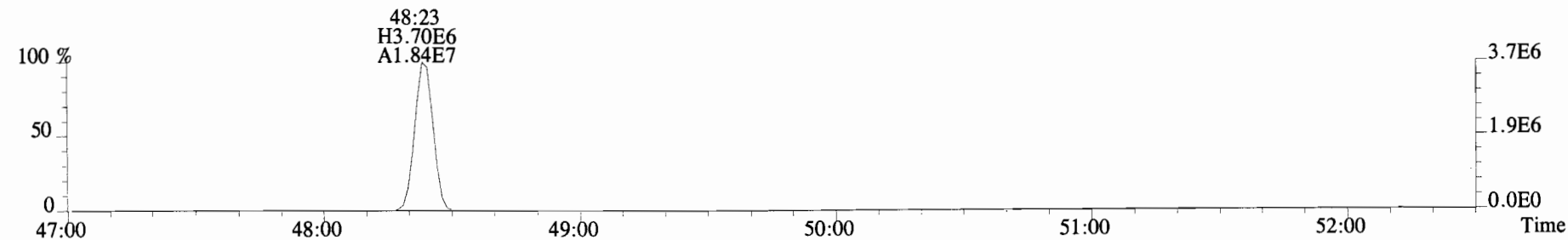
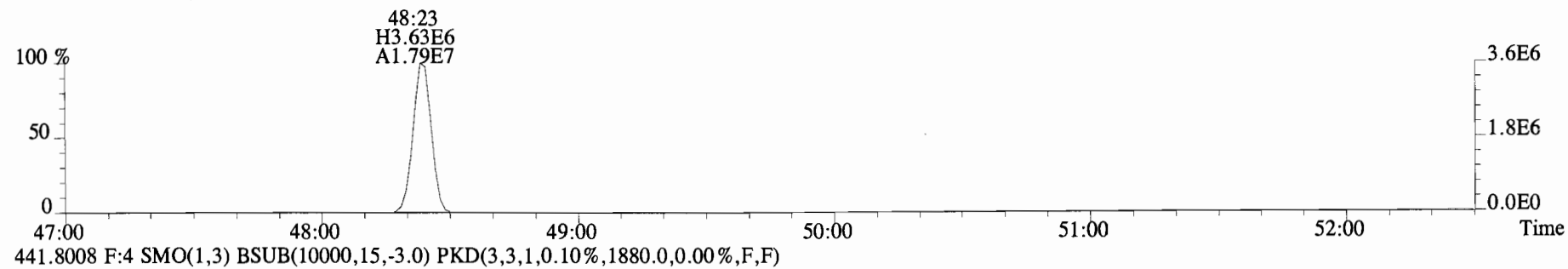
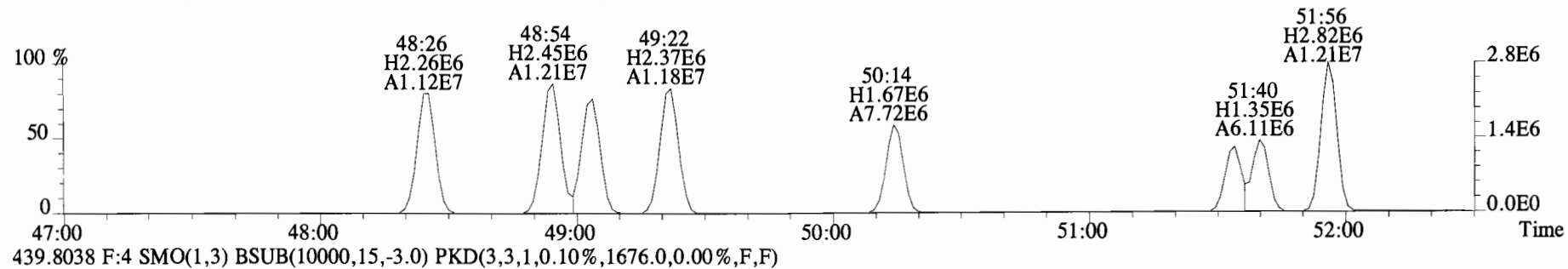
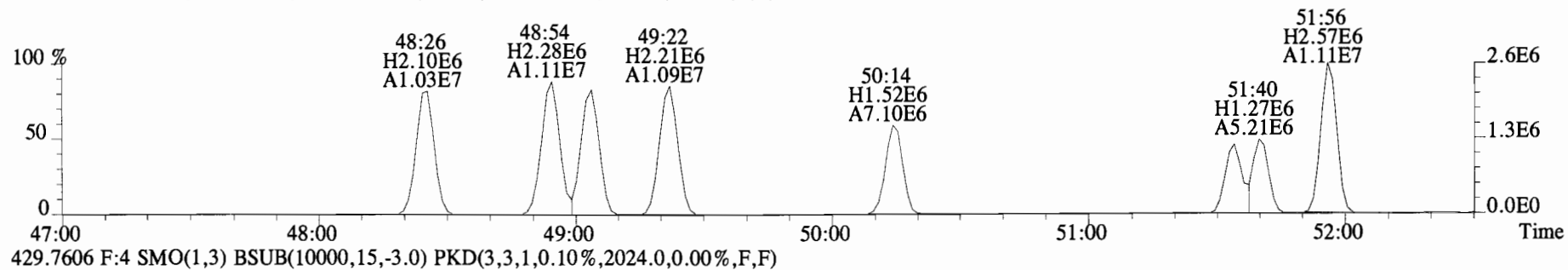


File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7820.0,0.00%,F,F)

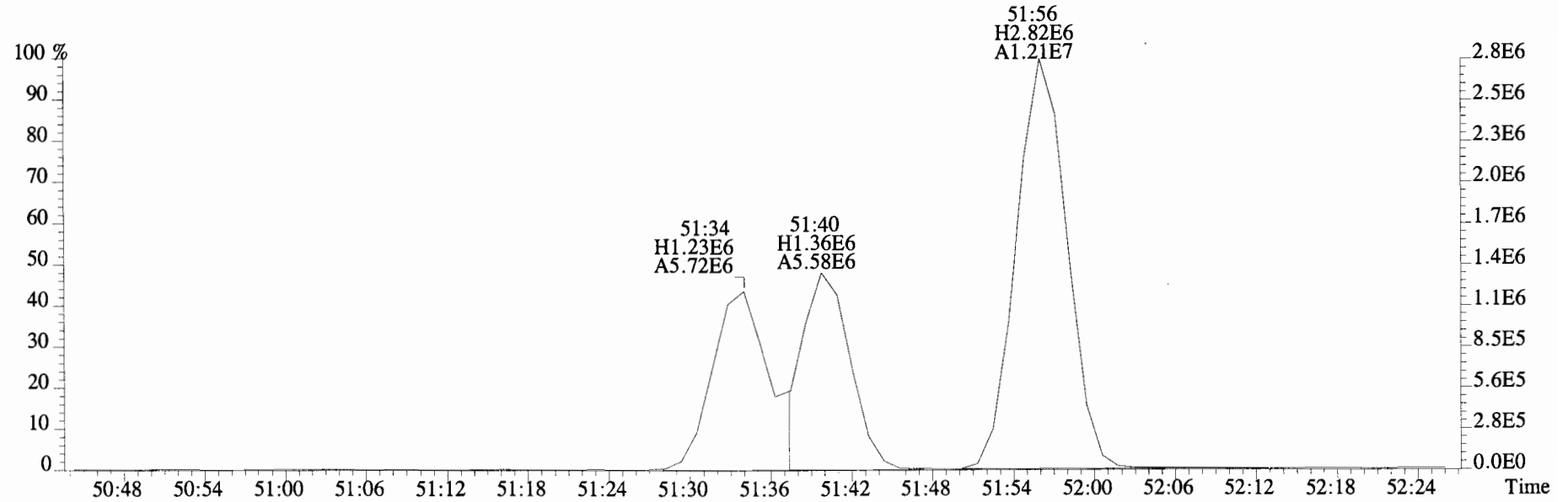
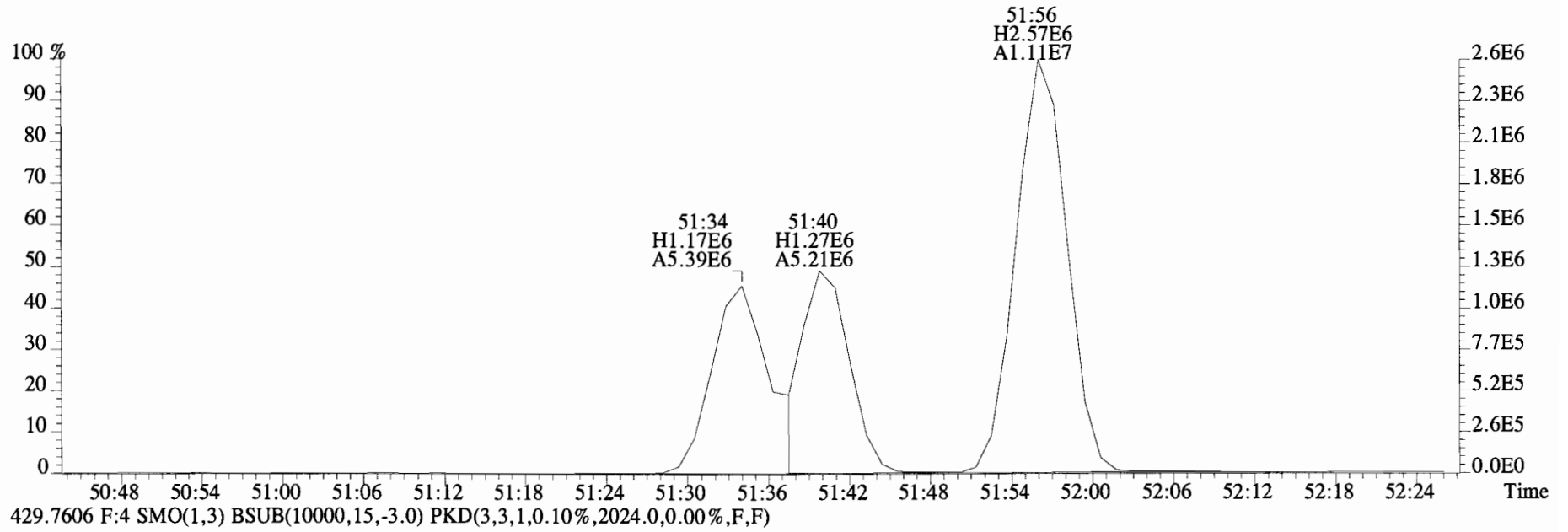




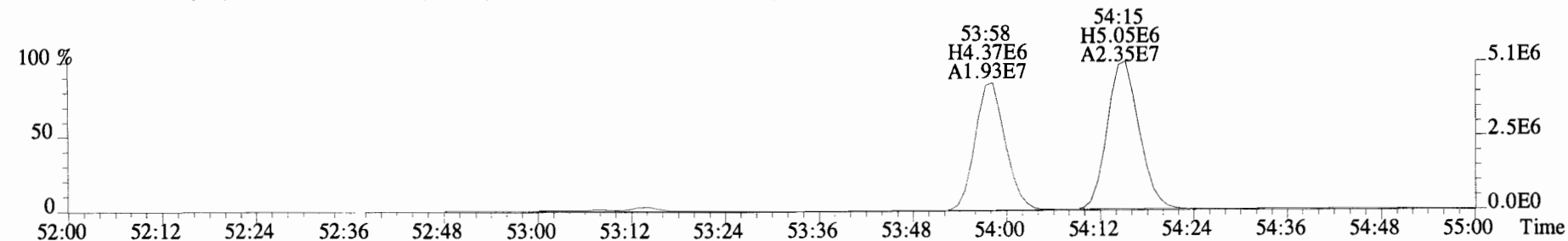
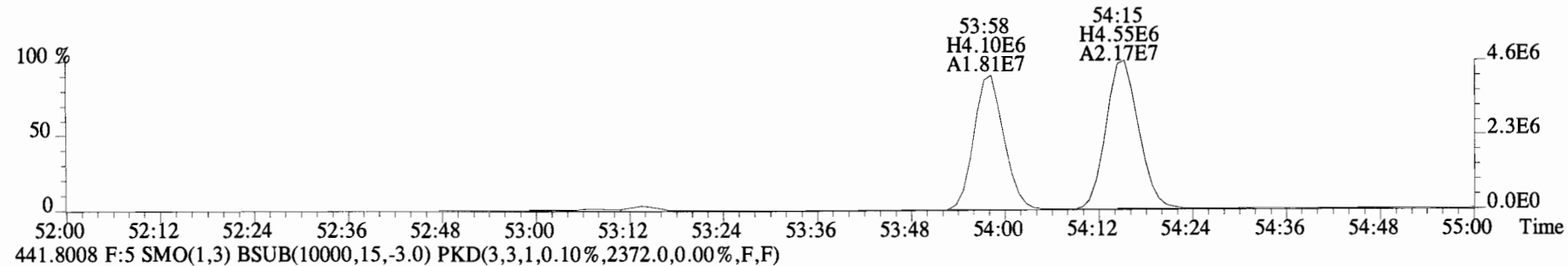
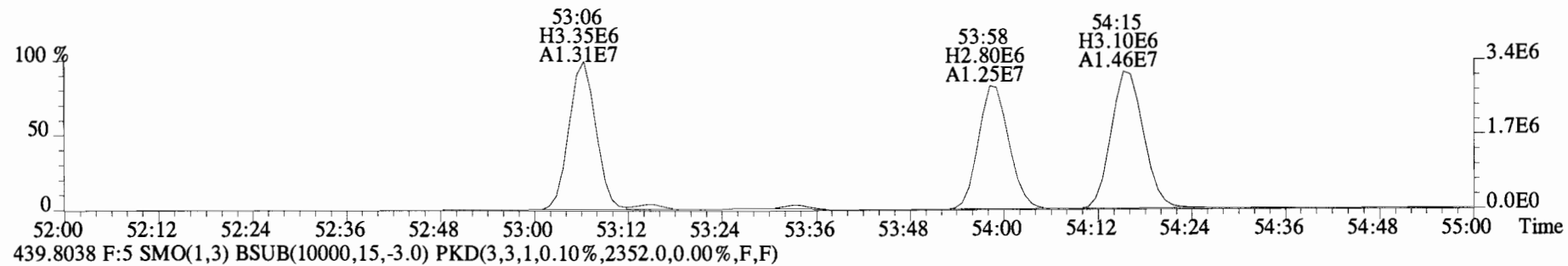
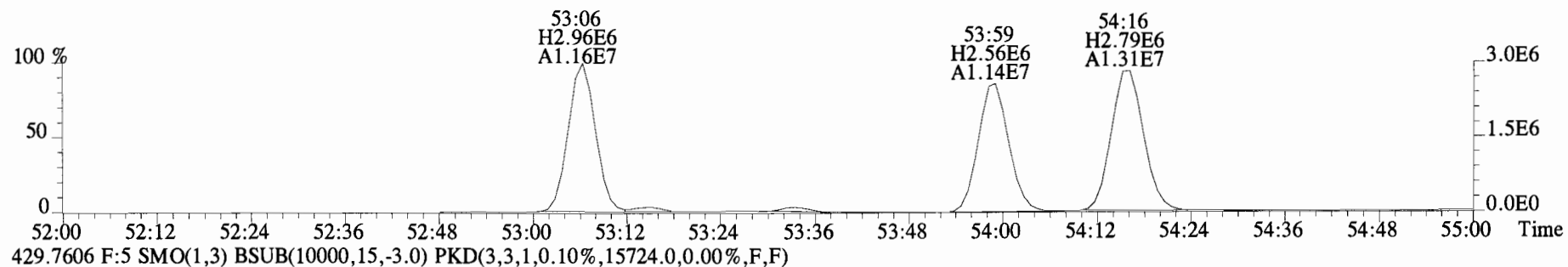
File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1672.0,0.00%,F,F)



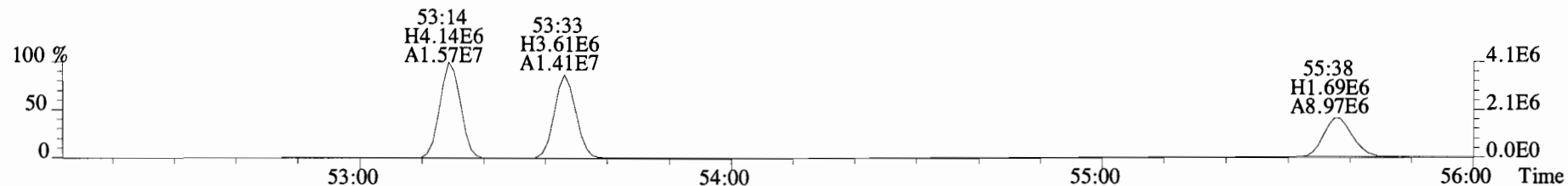
File:140926E1 #1-560 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1672.0,0.00%,F,F)



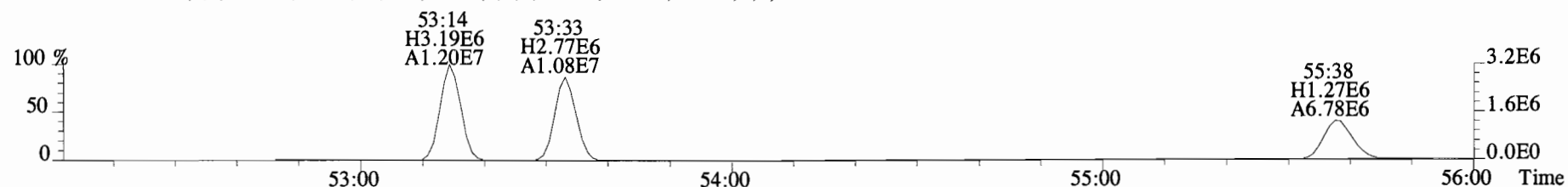
File:140926E1 #1-418 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20332.0,0.00%,F,F)



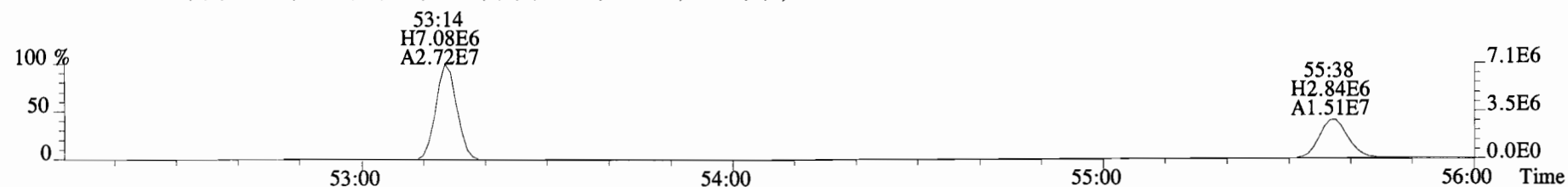
File:140926E1 #1-418 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6460.0,0.00%,F,F)



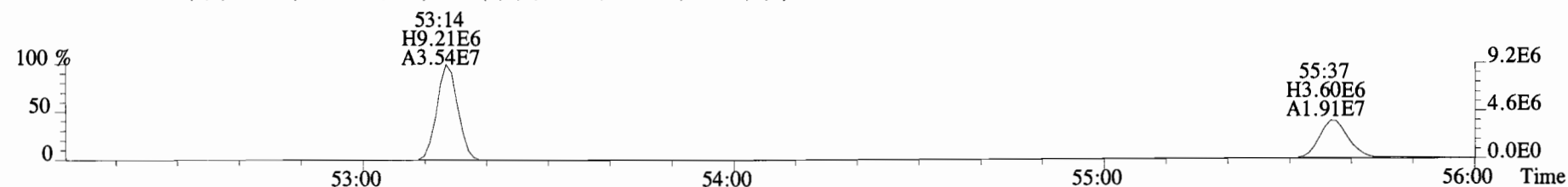
465.7186 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



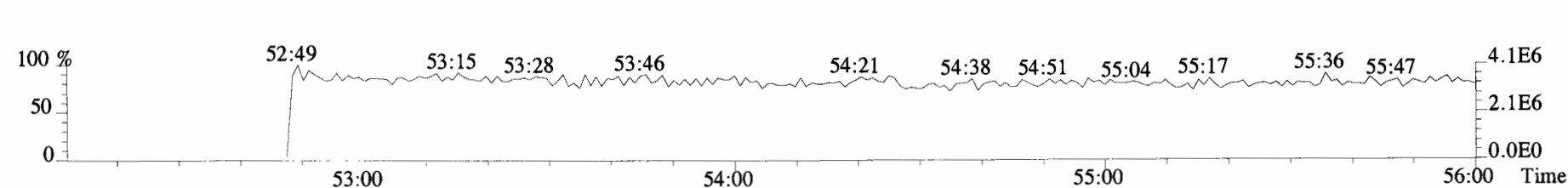
473.7648 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11116.0,0.00%,F,F)



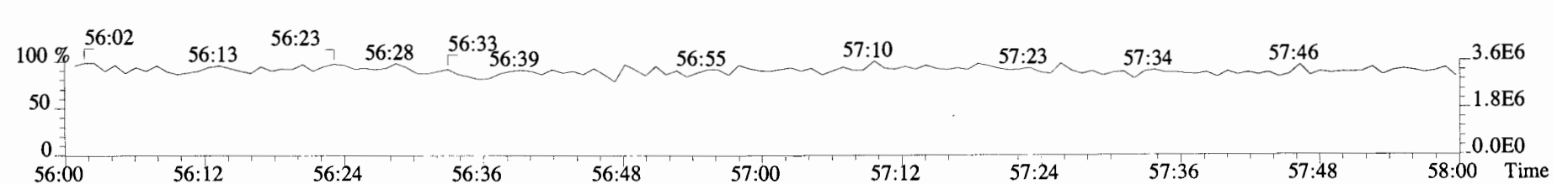
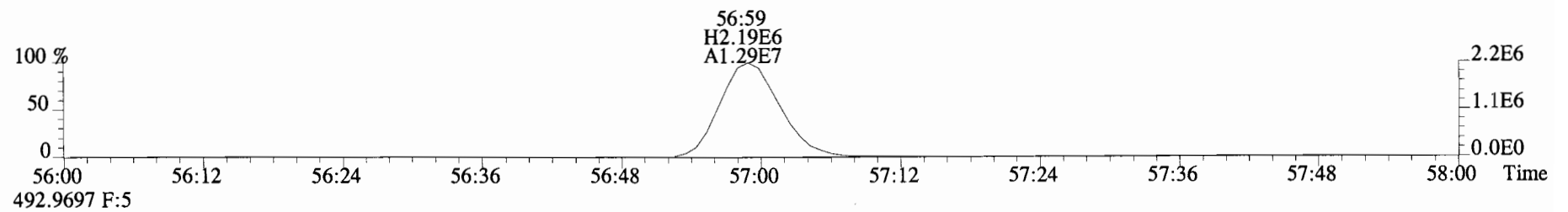
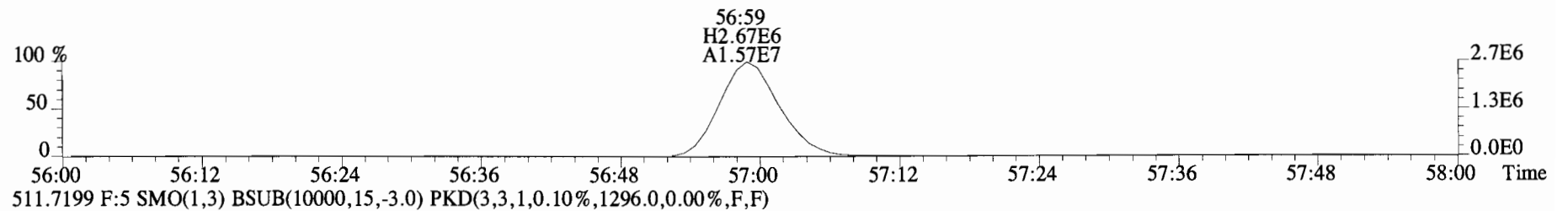
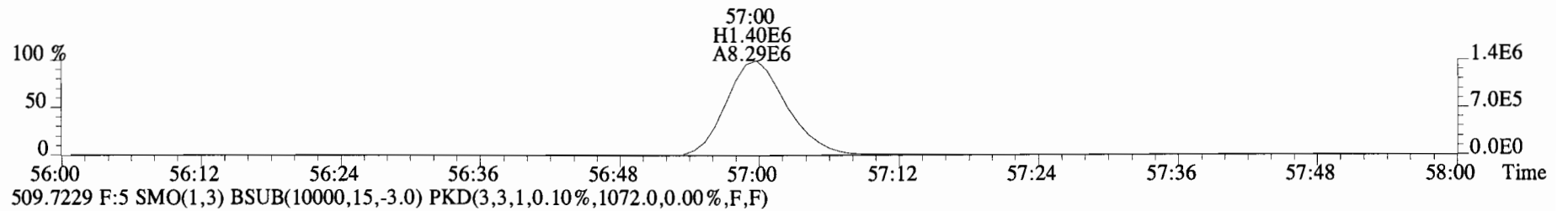
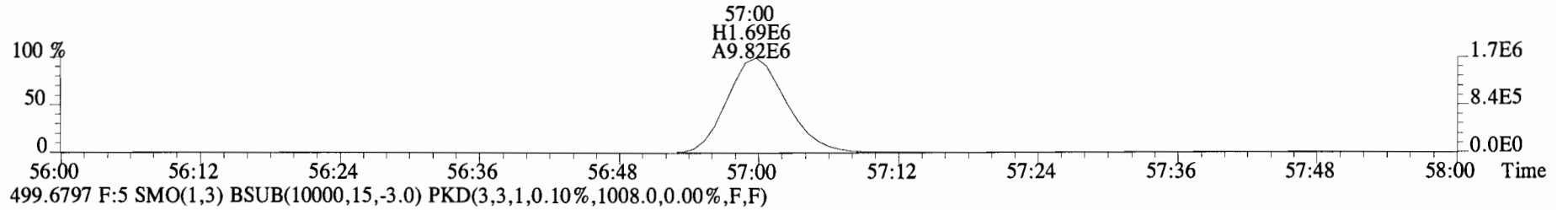
475.7619 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12924.0,0.00%,F,F)



492.9697 F:5

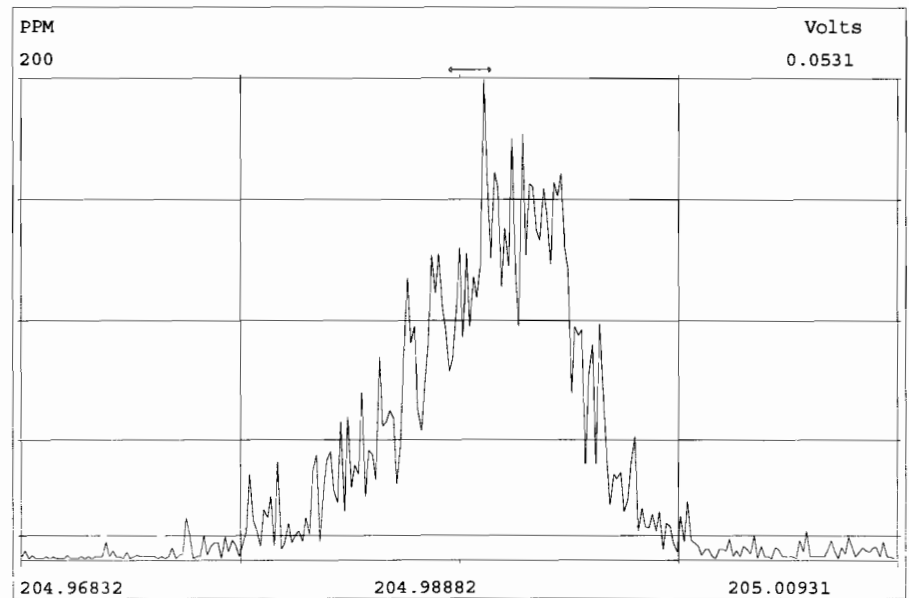
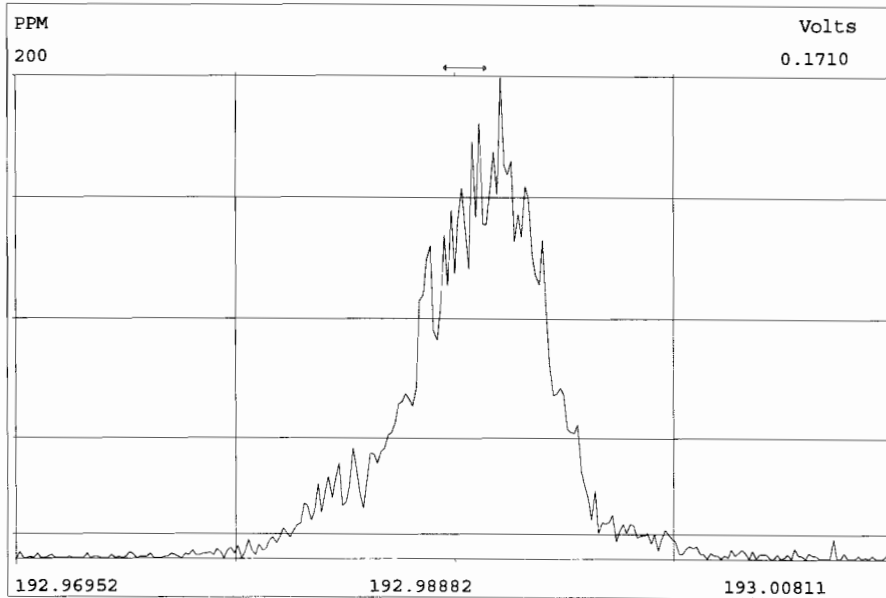
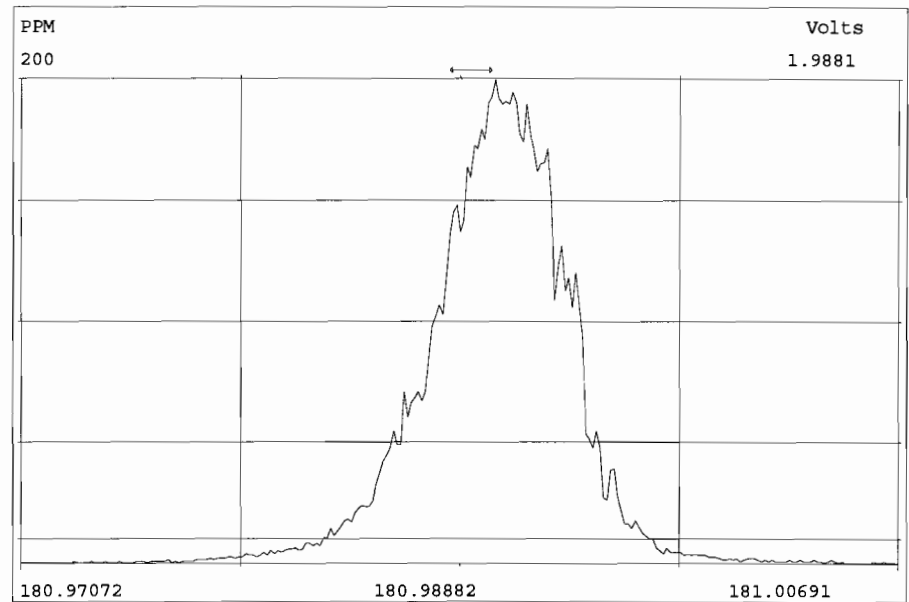
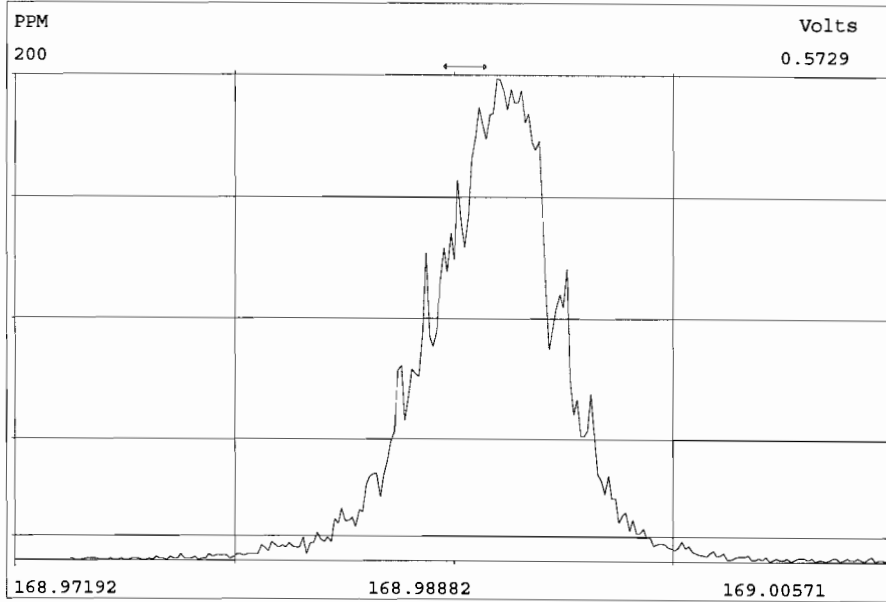


File:140926E1 #1-418 Acq:26-SEP-2014 14:33:56 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140926E1-1 PCB CS3 14F1901 Exp:PCB\_ZB1  
497.6826 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1140.0,0.00%,F,F)



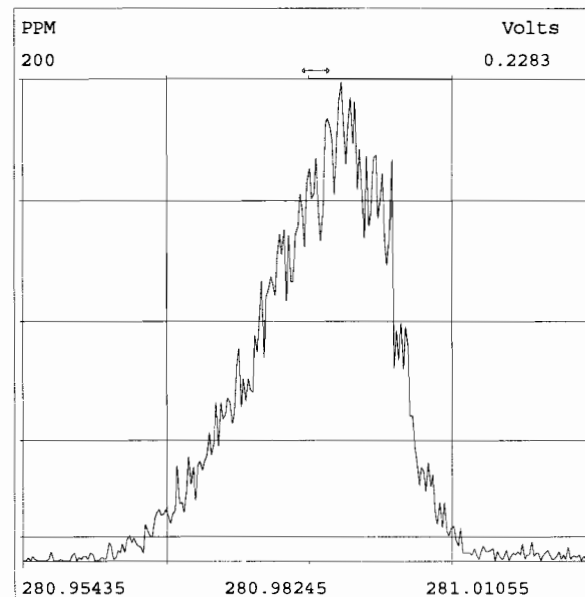
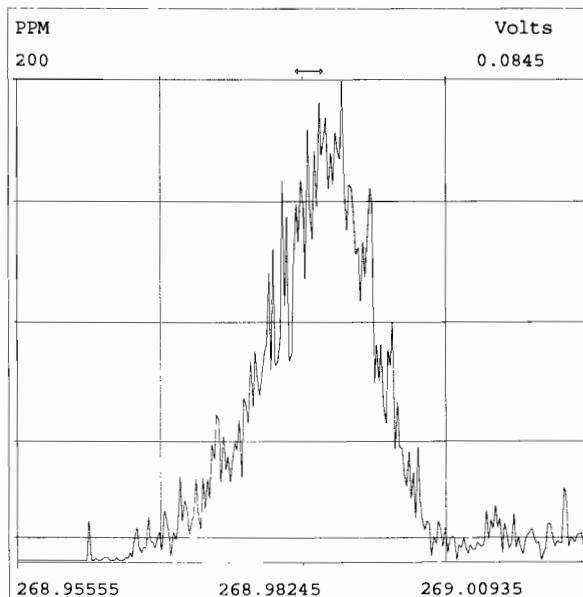
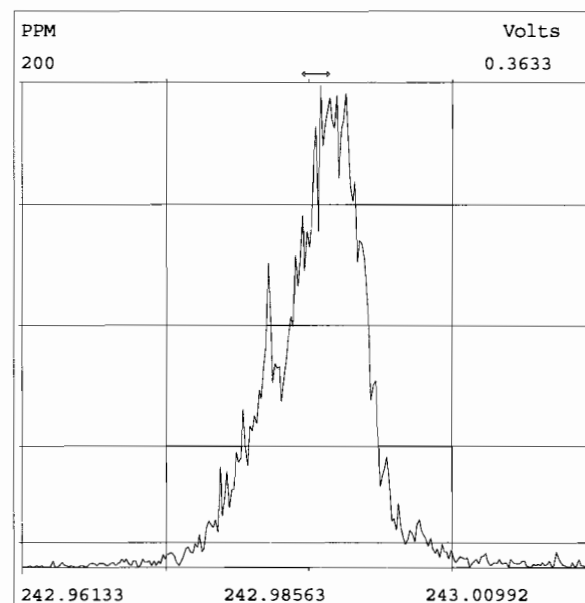
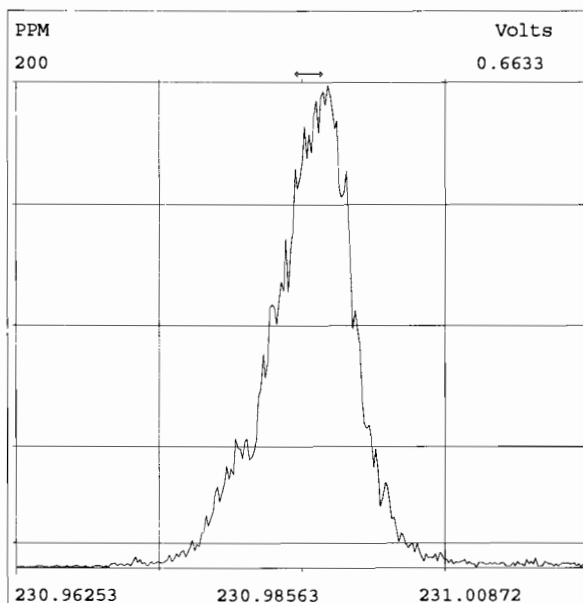
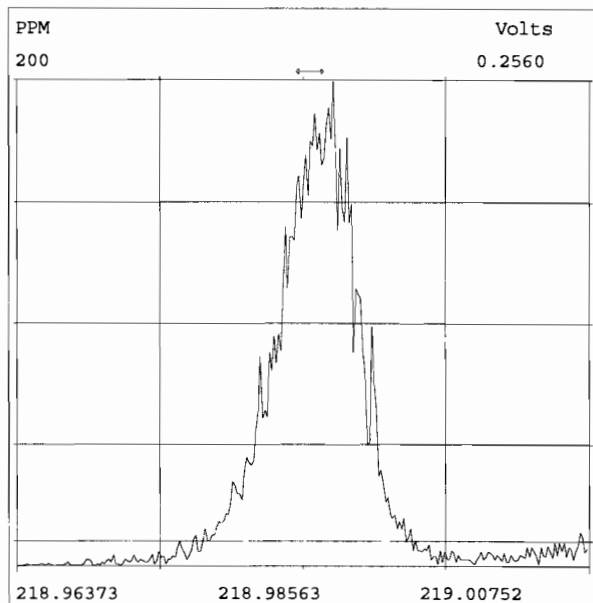
Peak Locate Examination:26-SEP-2014:17:55 File:RES\_CHECK

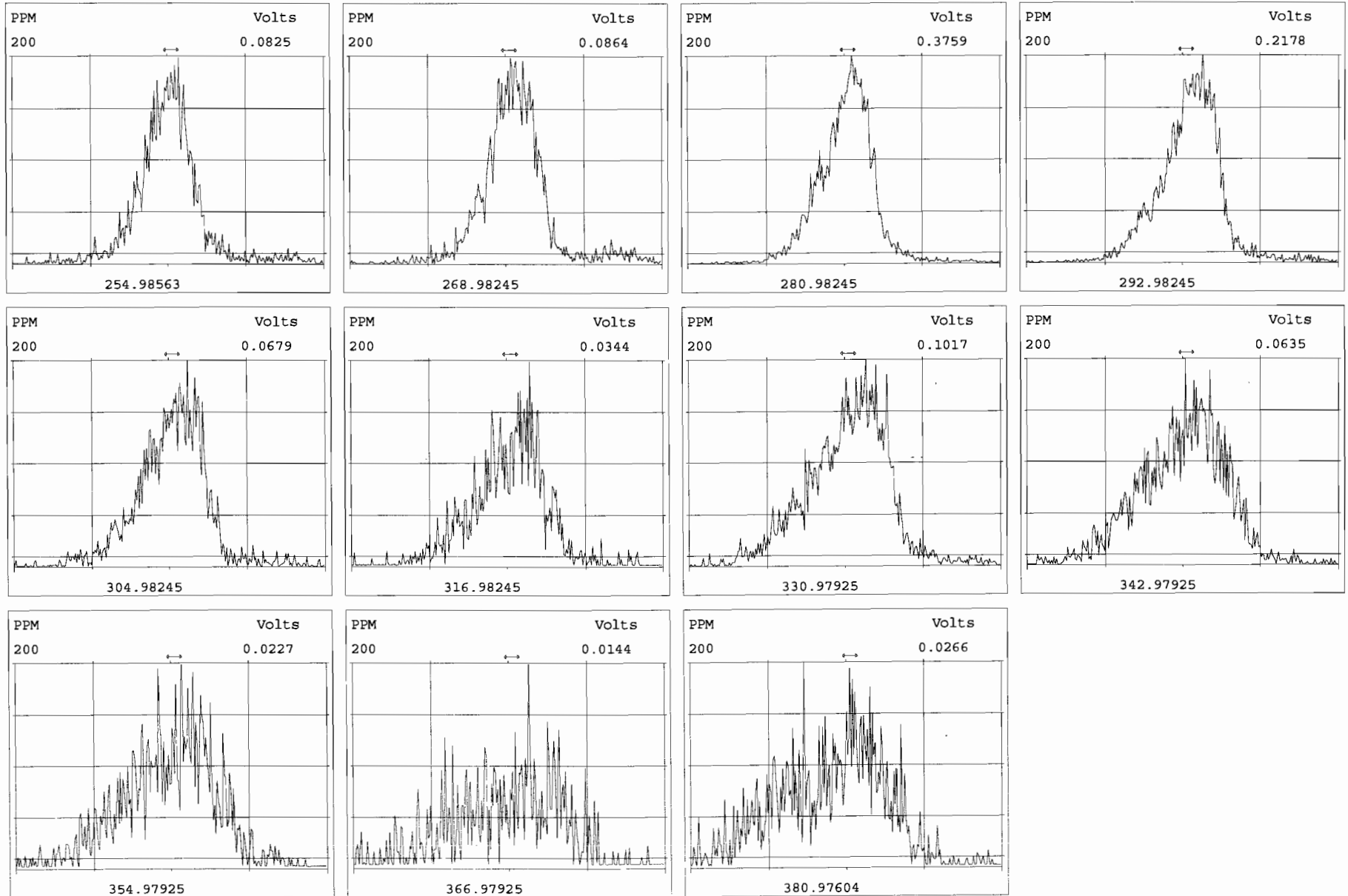
Experiment:PCB\_ZB1 Function:1 Reference:PFK



Peak Locate Examination:26-SEP-2014:17:56 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:2 Reference:PFK

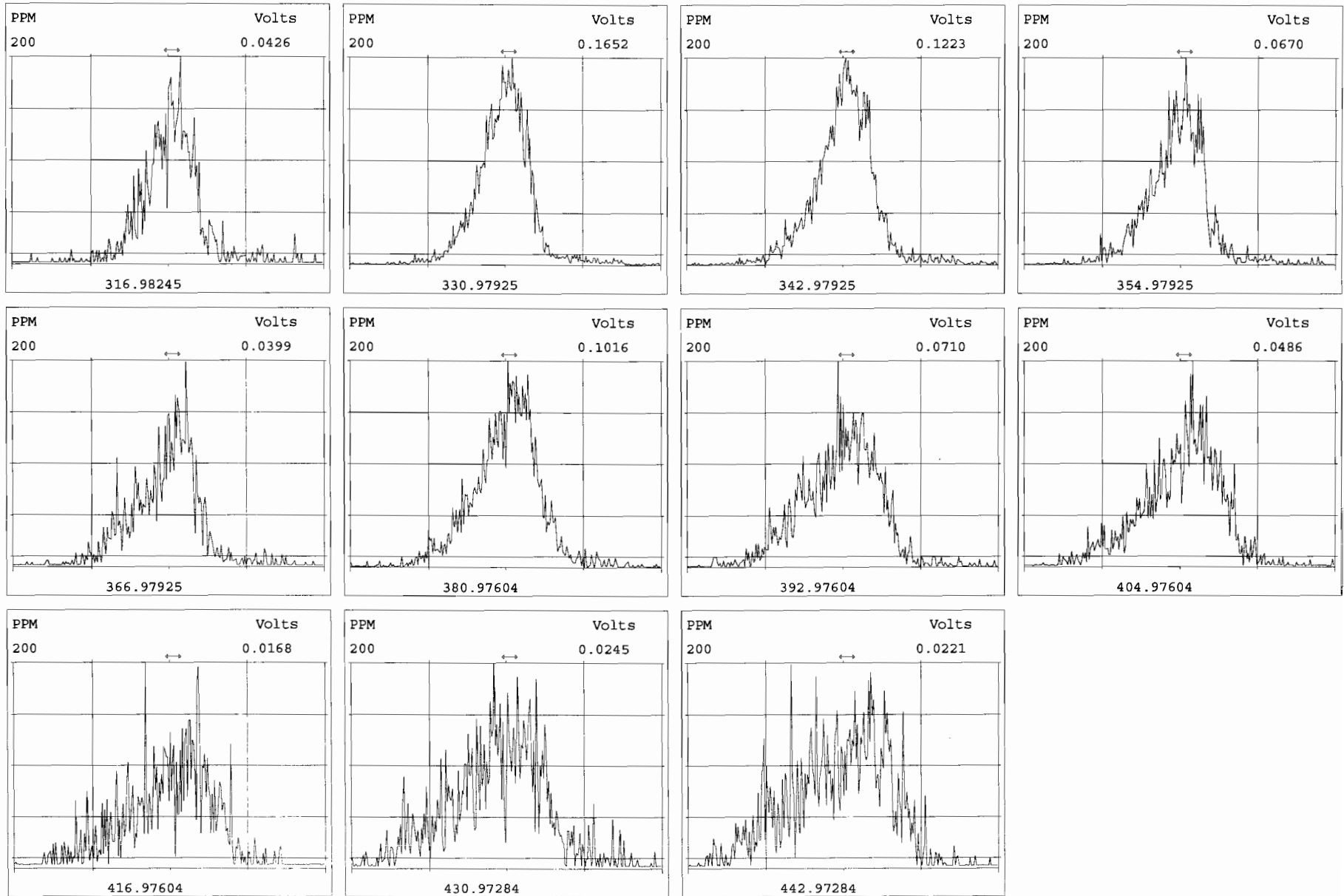






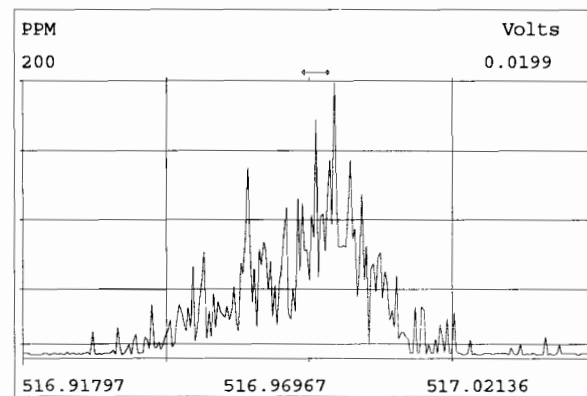
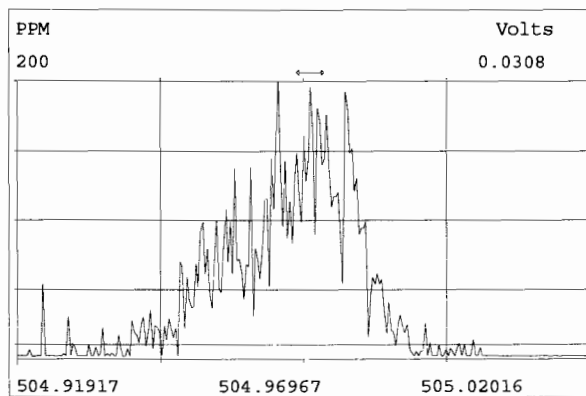
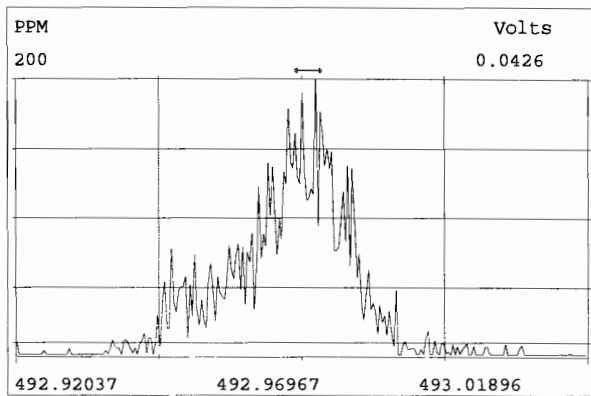
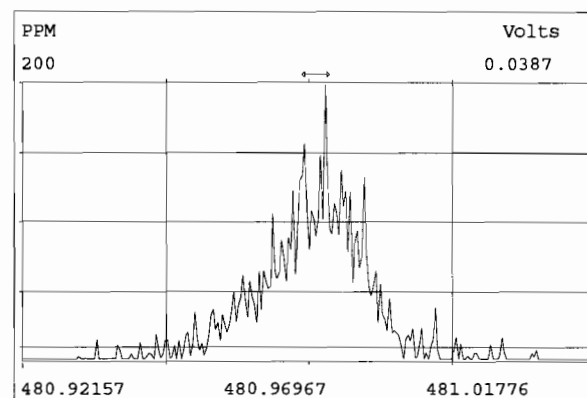
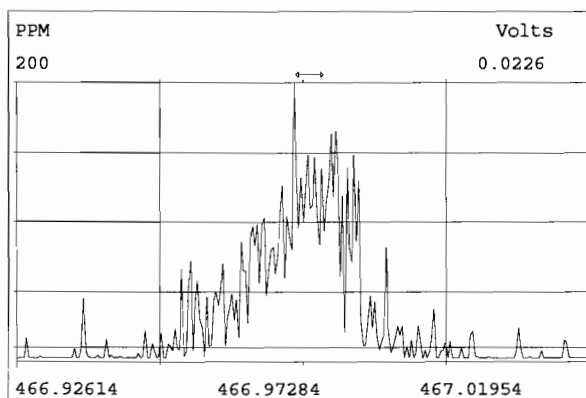
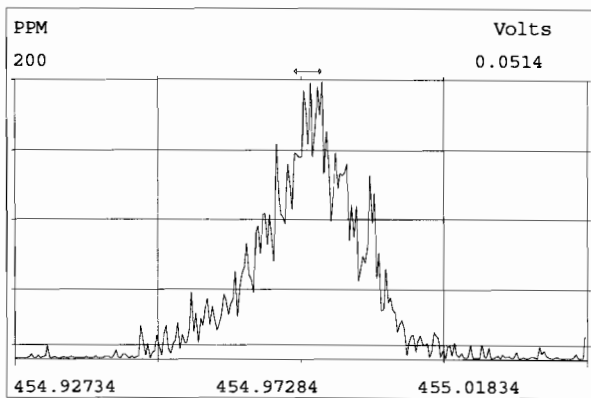
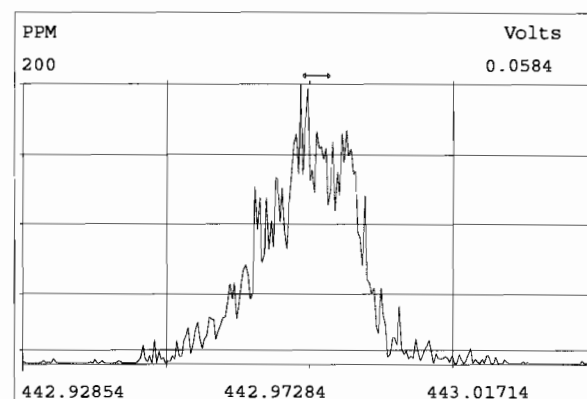
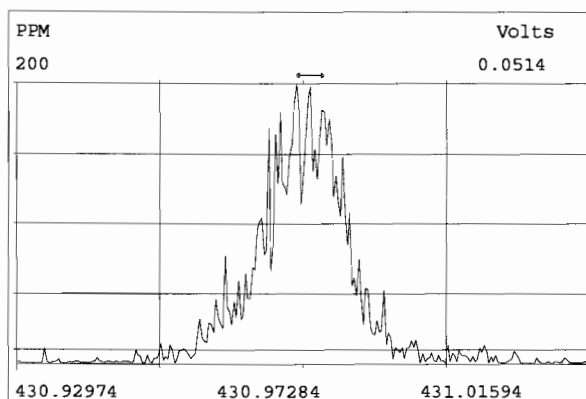
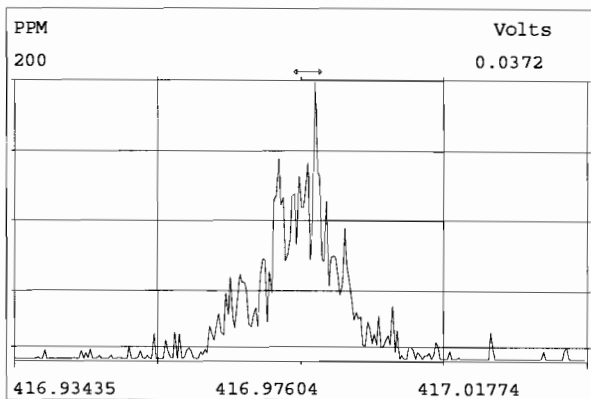
Peak Locate Examination:26-SEP-2014:17:58 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:4 Reference:PFK



Peak Locate Examination:26-SEP-2014:17:59 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:5 Reference:PFK



NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST141002E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-23-14      ICal ID: PCBVG8-6-23-14      GC Column ID: ZB-1

VER Data Filename: 141002E1    S#1    Analysis Date: 2-OCT-14 Time: 09:59:25

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	2.99	2.66-3.60	Y	51.2	37.5-62.5	PCB-52/69	0.74	0.65-0.89	Y	93.5	75.0-125
PCB-2	3.02	2.66-3.60	Y	50.4	37.5-62.5	PCB-73	0.75	0.65-0.89	Y	43.8	37.5-62.5
PCB-3	3.01	2.66-3.60	Y	49.3	37.5-62.5	PCB-43/49	0.74	0.65-0.89	Y	88.2	75.0-125
PCB-4/10	1.59	1.33-1.79	Y	182.3	150-250	PCB-47	0.77	0.65-0.89	Y	44.6	37.5-62.5
PCB-7/9	1.59	1.33-1.79	Y	175.8	150-250	PCB-48/75	0.74	0.65-0.89	Y	96.6	75.0-125
PCB-6	1.60	1.33-1.79	Y	83.1	75.0-125	PCB-65	0.73	0.65-0.89	Y	48.6	37.5-62.5
PCB-5/8	1.59	1.33-1.79	Y	175.4	150-250	PCB-62	0.75	0.65-0.89	Y	49.4	37.5-62.5
PCB-14	1.60	1.33-1.79	Y	88.7	75.0-125	PCB-44	0.74	0.65-0.89	Y	48.2	37.5-62.5
PCB-11	1.60	1.33-1.79	Y	88.1	75.0-125	PCB-42/59	0.74	0.65-0.89	Y	97.4	75.0-125
PCB-12/13	1.59	1.33-1.79	Y	170.4	150-250	PCB-41/64/71/72	0.75	0.65-0.89	Y	186.9	150-250
PCB-15	1.59	1.33-1.79	Y	85.3	75.0-125	PCB-68	0.75	0.65-0.89	Y	48.3	37.5-62.5
PCB-19	1.08	0.88-1.20	Y	56.3	37.5-62.5	PCB-40	0.74	0.65-0.89	Y	51.2	37.5-62.5
PCB-30	1.08	0.88-1.20	Y	55.0	37.5-62.5	PCB-57	0.75	0.65-0.89	Y	49.3	37.5-62.5
PCB-18	1.06	0.88-1.20	Y	56.7	37.5-62.5	PCB-67	0.75	0.65-0.89	Y	45.0	37.5-62.5
PCB-17	1.08	0.88-1.20	Y	55.0	37.5-62.5	PCB-69	0.76	0.65-0.89	Y	49.4	37.5-62.5
PCB-24/27	1.07	0.88-1.20	Y	111.4	75.0-125	PCB-63	0.76	0.65-0.89	Y	46.7	37.5-62.5
PCB-16/32	1.07	0.88-1.20	Y	110.6	75.0-125	PCB-74	0.76	0.65-0.89	Y	46.5	37.5-62.5
PCB-34	0.97	0.88-1.20	Y	46.4	37.5-62.5	PCB-61/70	0.75	0.65-0.89	Y	98.6	75.0-125
PCB-23	0.98	0.88-1.20	Y	38.5	37.5-62.5	PCB-76/66	0.75	0.65-0.89	Y	95.9	75.0-125
PCB-29	0.97	0.88-1.20	Y	42.7	37.5-62.5	PCB-80	0.75	0.65-0.89	Y	49.9	37.5-62.5
PCB-26	0.99	0.88-1.20	Y	40.0	37.5-62.5	PCB-55	0.76	0.65-0.89	Y	50.6	37.5-62.5
PCB-25	0.97	0.88-1.20	Y	44.3	37.5-62.5	PCB-56/60	0.76	0.65-0.89	Y	96.5	75.0-125
PCB-31	0.97	0.88-1.20	Y	37.9	37.5-62.5	PCB-79	0.76	0.65-0.89	Y	46.6	37.5-62.5
PCB-28	1.00	0.88-1.20	Y	41.6	37.5-62.5	PCB-78	0.74	0.65-0.89	Y	47.1	37.5-62.5
PCB-20/21/33	0.97	0.88-1.20	Y	132.4	112.5-225	PCB-81	0.76	0.65-0.89	Y	50.4	37.5-62.5
PCB-22	0.96	0.88-1.20	Y	42.3	37.5-62.5	PCB-77	0.77	0.65-0.89	Y	47.7	37.5-62.5
PCB-36	0.95	0.88-1.20	Y	44.9	37.5-62.5	PCB-104	1.58	1.32-1.78	Y	53.5	37.5-62.5
PCB-39	0.96	0.88-1.20	Y	45.6	37.5-62.5	PCB-96	1.60	1.32-1.78	Y	53.3	37.5-62.5
PCB-38	0.98	0.88-1.20	Y	38.8	37.5-62.5	PCB-103	1.61	1.32-1.78	Y	52.1	37.5-62.5
PCB-35	0.97	0.88-1.20	Y	43.2	37.5-62.5	PCB-100	1.57	1.32-1.78	Y	52.6	37.5-62.5
PCB-37	1.01	0.88-1.20	Y	42.2	37.5-62.5	PCB-94	1.60	1.32-1.78	Y	51.1	37.5-62.5
PCB-54	0.75	0.65-0.89	Y	46.9	37.5-62.5	PCB-95/98/102	1.59	1.32-1.78	Y	153.6	112.5-225
PCB-50	0.75	0.65-0.89	Y	45.9	37.5-62.5	PCB-93	1.54	1.32-1.78	Y	60.9	37.5-62.5
PCB-53	0.75	0.65-0.89	Y	45.9	37.5-62.5	PCB-88/91	1.58	1.32-1.78	Y	112.5	75.0-125
PCB-51	0.74	0.65-0.89	Y	47.4	37.5-62.5	PCB-121	1.60	1.32-1.78	Y	48.1	37.5-62.5
PCB-45	0.75	0.65-0.89	Y	48.3	37.5-62.5						
PCB-46	0.75	0.65-0.89	Y	48.4	37.5-62.5						

Analyst: *DMS*

Date: *10/2/14*

Lab Name: Vista Analytical Laboratory      Lab ID: ST141002E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-23-14      ICal ID: PCBVG8-6-23-14      GC Column ID: ZB-1

VER Data Filename: 141002E1    S#1    Analysis Date: 2-OCT-14 Time: 09:59:25

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	107.5	75.0-125	PCB-140	1.27	1.05-1.43	Y	54.6	37.5-62.5
PCB-89	1.57	1.32-1.78	Y	53.1	37.5-62.5	PCB-134/143	1.23	1.05-1.43	Y	103.8	75.0-125
PCB-90/101	1.59	1.32-1.78	Y	105.2	75.0-125	PCB-133/142	1.24	1.05-1.43	Y	101.2	75.0-125
PCB-113	1.59	1.32-1.78	Y	49.1	37.5-62.5	PCB-131	1.25	1.05-1.43	Y	49.3	37.5-62.5
PCB-99	1.61	1.32-1.78	Y	57.5	37.5-62.5	PCB-146/165	1.22	1.05-1.43	Y	97.6	75.0-125
PCB-119	1.57	1.32-1.78	Y	51.4	37.5-62.5	PCB-132/161	1.23	1.05-1.43	Y	98.2	75.0-125
PCB-108/112	1.59	1.32-1.78	Y	103.9	75.0-125	PCB-153	1.24	1.05-1.43	Y	49.8	37.5-62.5
PCB-83	1.61	1.32-1.78	Y	50.5	37.5-62.5	PCB-168	1.22	1.05-1.43	Y	51.5	37.5-62.5
PCB-97	1.59	1.32-1.78	Y	51.8	37.5-62.5	PCB-141	1.23	1.05-1.43	Y	49.6	37.5-62.5
PCB-86	1.54	1.32-1.78	Y	57.3	37.5-62.5	PCB-137	1.23	1.05-1.43	Y	51.5	37.5-62.5
PCB-87/117/125	1.60	1.32-1.78	Y	158.9	112.5-225	PCB-130	1.19	1.05-1.43	Y	46.0	37.5-62.5
PCB-111/115	1.58	1.32-1.78	Y	110.6	75.0-125	PCB-138/163/164	1.23	1.05-1.43	Y	151.4	112.5-225
PCB-85/116	1.59	1.32-1.78	Y	102.8	75.0-125	PCB-158/160	1.22	1.05-1.43	Y	97.6	75.0-125
PCB-120	1.59	1.32-1.78	Y	52.0	37.5-62.5	PCB-129	1.22	1.05-1.43	Y	50.8	37.5-62.5
PCB-110	1.60	1.32-1.78	Y	53.0	37.5-62.5	PCB-166	1.24	1.05-1.43	Y	49.6	37.5-62.5
PCB-82	1.62	1.32-1.78	Y	54.4	37.5-62.5	PCB-159	1.22	1.05-1.43	Y	52.1	37.5-62.5
PCB-124	1.59	1.32-1.78	Y	52.5	37.5-62.5	PCB-128/162	1.24	1.05-1.43	Y	101.7	75.0-125
PCB-107/109	1.59	1.32-1.78	Y	107.1	75.0-125	PCB-167	1.23	1.05-1.43	Y	50.9	37.5-62.5
PCB-123	1.62	1.32-1.78	Y	52.6	37.5-62.5	PCB-156	1.22	1.05-1.43	Y	52.3	37.5-62.5
PCB-106/118	1.60	1.32-1.78	Y	105.4	75.0-125	PCB-157	1.22	1.05-1.43	Y	48.5	37.5-62.5
PCB-114	1.62	1.32-1.78	Y	47.1	37.5-62.5	PCB-169	1.25	1.05-1.43	Y	48.4	37.5-62.5
PCB-122	1.58	1.32-1.78	Y	49.6	37.5-62.5	PCB-188	1.05	0.89-1.21	Y	52.1	37.5-62.5
PCB-105	1.62	1.32-1.78	Y	47.5	37.5-62.5	PCB-184	1.04	0.89-1.21	Y	51.6	37.5-62.5
PCB-127	1.65	1.32-1.78	Y	47.1	37.5-62.5	PCB-179	1.06	0.89-1.21	Y	50.6	37.5-62.5
PCB-126	1.59	1.32-1.78	Y	49.9	37.5-62.5	PCB-176	1.05	0.89-1.21	Y	50.1	37.5-62.5
PCB-155	1.30	1.05-1.43	Y	52.6	37.5-62.5	PCB-186	1.05	0.89-1.21	Y	52.6	37.5-62.5
PCB-150	1.30	1.05-1.43	Y	53.5	37.5-62.5	PCB-178	1.07	0.89-1.21	Y	51.8	37.5-62.5
PCB-152	1.27	1.05-1.43	Y	53.0	37.5-62.5	PCB-175	1.07	0.89-1.21	Y	50.2	37.5-62.5
PCB-145	1.31	1.05-1.43	Y	53.6	37.5-62.5	PCB-182/187	1.07	0.89-1.21	Y	105.1	75.0-125
PCB-136	1.30	1.05-1.43	Y	53.8	37.5-62.5	PCB-183	1.05	0.89-1.21	Y	53.0	37.5-62.5
PCB-148	1.32	1.05-1.43	Y	51.6	37.5-62.5	PCB-185	1.06	0.89-1.21	Y	52.4	37.5-62.5
PCB-154	1.28	1.05-1.43	Y	53.9	37.5-62.5	PCB-174	1.07	0.89-1.21	Y	55.1	37.5-62.5
PCB-151	1.29	1.05-1.43	Y	52.5	37.5-62.5	PCB-181	1.06	0.89-1.21	Y	51.3	37.5-62.5
PCB-135	1.28	1.05-1.43	Y	50.5	37.5-62.5	PCB-177	1.07	0.89-1.21	Y	52.8	37.5-62.5
PCB-144	1.27	1.05-1.43	Y	58.5	37.5-62.5	PCB-171	1.07	0.89-1.21	Y	53.8	37.5-62.5
PCB-147	1.27	1.05-1.43	Y	53.6	37.5-62.5	PCB-173	1.06	0.89-1.21	Y	53.6	37.5-62.5
PCB-139/149	1.28	1.05-1.43	Y	109.5	75.0-125	PCB-172	1.06	0.89-1.21	Y	52.9	37.5-62.5

Analyst: Dms

Date: 10/2/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST141002E1-1      Instrument ID: VG-8

Initial Calibration Date: 6-23-14      ICal ID: PCBVG8-6-23-14      GC Column ID: ZB-1

VER Data Filename: 141002E1    S#1    Analysis Date: 2-OCT-14 Time: 09:59:25

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(ng/mL)
PCB-192	1.06	0.89-1.21	y	52.8	37.5-62.5
PCB-180	1.05	0.89-1.21	y	52.1	37.5-62.5
PCB-193	1.06	0.89-1.21	y	51.3	37.5-62.5
PCB-191	1.07	0.89-1.21	y	49.2	37.5-62.5
PCB-170	1.06	0.89-1.21	y	52.6	37.5-62.5
PCB-190	1.06	0.89-1.21	y	49.7	37.5-62.5
PCB-189	1.07	0.89-1.21	y	51.3	37.5-62.5
PCB-202	0.89	0.76-1.02	y	51.3	37.5-62.5
PCB-201	0.91	0.76-1.02	y	49.5	37.5-62.5
PCB-204	0.92	0.76-1.02	y	50.1	37.5-62.5
PCB-197	0.92	0.76-1.02	y	50.5	37.5-62.5
PCB-200	0.91	0.76-1.02	y	48.9	37.5-62.5
PCB-198	0.90	0.76-1.02	y	46.0	37.5-62.5
PCB-199	0.91	0.76-1.02	y	50.1	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	98.6	75.0-125
PCB-195	0.91	0.76-1.02	y	49.3	37.5-62.5
PCB-194	0.91	0.76-1.02	y	44.6	37.5-62.5
PCB-205	0.88	0.76-1.02	y	43.7	37.5-62.5
PCB-208	1.32	1.14-1.54	y	49.7	37.5-62.5
PCB-207	1.32	1.14-1.54	y	47.4	37.5-62.5
PCB-206	1.29	1.14-1.54	y	48.7	37.5-62.5
PCB-209	1.18	0.99-1.33	y	50.2	37.5-62.5

Analyst: DMS

Date: 10/2/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory      Lab ID: ST141002E1-1      Instrument ID: VG-8  
 Initial Calibration Date: 6-23-14      ICal ID: PCBVG8-6-23-14      GC Column ID: ZB-1

VER Data Filename: 141002E1 S#1 Analysis Date: 2-OCT-14 Time: 09:59:25

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.54	2.66-3.60	y	120.6	50.0-145	13C-PCB-169	1.26	1.05-1.43	y	82.4	50 - 145
13C-PCB-3	3.50	2.66-3.60	y	120.6	50.0-145	13C-PCB-188	0.47	0.38-0.52	y	94.4	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	91.6	50 - 145
13C-PCB-9	1.58	1.33-1.79	y	103.8	50.0-145	13C-PCB-170	0.47	0.38-0.52	y	90.6	50 - 145
13C-PCB-11	1.56	1.33-1.79	y	101.1	50.0-145	13C-PCB-189	0.48	0.38-0.52	y	82.1	50 - 145
13C-PCB-19	1.09	0.88-1.20	y	92.7	50.0-145	13C-PCB-202	0.92	0.76-1.02	y	88.5	50 - 145
13C-PCB-32	1.12	0.88-1.20	y	91.6	50.0-145	13C-PCB-194	0.91	0.76-1.02	y	100.7	50 - 145
13C-PCB-28	0.99	0.88-1.20	y	94.4	50.0-145	13C-PCB-208	0.78	0.65-0.89	y	129.0	50 - 145
13C-PCB-37	0.98	0.88-1.20	y	91.8	50.0-145	13C-PCB-206	0.78	0.65-0.89	y	117.1	50 - 145
13C-PCB-54	0.79	0.65-0.89	y	103.4	50.0-145	13C-PCB-209	1.20	0.99-1.33	y	119.6	50 - 145
13C-PCB-52	0.75	0.65-0.89	y	101.1	50.0-145						
13C-PCB-47	0.76	0.65-0.89	y	95.9	50.0-145						
13C-PCB-70	0.77	0.65-0.89	y	98.4	50.0-145						
13C-PCB-80	0.78	0.65-0.89	y	99.2	50.0-145						
13C-PCB-81	0.77	0.65-0.89	y	94.2	50.0-145						
13C-PCB-77	0.79	0.65-0.89	y	92.5	50.0-145						
13C-PCB-104	1.59	1.32-1.78	y	99.6	50.0-145						
13C-PCB-95	1.59	1.32-1.78	y	101.2	50.0-145						
13C-PCB-101	1.63	1.32-1.78	y	98.4	50.0-145						
13C-PCB-97	1.61	1.32-1.78	y	99.0	50.0-145	CRS vs. RS					
13C-PCB-123	1.62	1.32-1.78	y	97.4	50.0-145	13C-PCB-79	0.77	0.65-0.89	y	94.4	75 - 125
13C-PCB-118	1.65	1.32-1.78	y	97.3	50.0-145	13C-PCB-178	0.46	0.38-0.52	y	93.8	75 - 125
13C-PCB-114	1.53	1.32-1.78	y	81.3	50.0-145						
13C-PCB-105	1.52	1.32-1.78	y	75.5	50.0-145						
13C-PCB-127	1.55	1.32-1.78	y	78.1	50.0-145						
13C-PCB-126	1.52	1.32-1.78	y	70.6	50.0-145						
13C-PCB-155	1.30	1.05-1.43	y	80.7	50.0-145						
13C-PCB-153	1.26	1.05-1.43	y	97.6	50.0-145						
13C-PCB-141	1.28	1.05-1.43	y	95.6	50.0-145						
13C-PCB-138	1.30	1.05-1.43	y	97.2	50.0-145						
13C-PCB-159	1.25	1.05-1.43	y	94.8	50.0-145						
13C-PCB-167	1.26	1.05-1.43	y	95.3	50.0-145						
13C-PCB-156	1.27	1.05-1.43	y	90.8	50.0-145						
13C-PCB-157	1.27	1.05-1.43	y	91.8	50.0-145						

Analyst: *DMS*

Date: *10/2/14*

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.41e+08	2.99	y	1.19	16:14	1.001	0.996-1.006	51.1946	PCB-52/69	1.27e+08	0.74	y	1.28	31:38	1.001	0.996-1.006	93.4579
PCB-2	1.44e+08	3.02	y	1.18	18:36	0.989	0.984-0.994	50.4031	PCB-73	6.29e+07	0.75	y	1.35	31:45	1.005	1.000-1.010	43.7798
PCB-3	1.69e+08	3.01	y	1.43	18:51	1.001	0.996-1.006	49.3465	PCB-43/49	9.32e+07	0.74	y	0.99	31:55	1.010	1.005-1.015	88.2282
PCB-4/10	3.84e+08	1.59	y	1.57	20:12	1.002	0.997-1.007	182.329	PCB-47	5.01e+07	0.77	y	1.06	32:06	1.000	0.996-1.006	44.6298
PCB-7/9	4.33e+08	1.59	y	1.21	21:59	0.868	0.866-0.874	175.817	PCB-48/75	1.26e+08	0.74	y	1.23	32:14	1.004	0.999-1.009	96.6431
PCB-6	2.21e+08	1.60	y	1.30	22:39	0.894	0.890-0.899	83.0931	PCB-65	6.30e+07	0.73	y	1.22	32:30	1.012	1.008-1.018	48.5508
PCB-5/8	4.10e+08	1.59	y	1.15	23:03	0.910	0.907-0.917	175.366	PCB-62	6.40e+07	0.75	y	1.22	32:36	1.016	1.011-1.021	49.4306
PCB-14	2.04e+08	1.60	y	1.11	24:09	0.954	0.949-0.959	88.6771	PCB-44	4.39e+07	0.74	y	0.86	32:55	1.025	1.021-1.031	48.1526
PCB-11	1.99e+08	1.60	y	1.09	25:20	1.000	0.995-1.005	88.1217	PCB-42/59	1.18e+08	0.74	y	1.14	33:09	1.033	1.028-1.038	97.4432
PCB-12/13	4.22e+08	1.59	y	1.19	25:44	1.016	1.011-1.021	170.420	PCB-41/64/71/72	2.39e+08	0.75	y	1.21	33:44	1.051	1.046-1.056	186.852
PCB-15	2.27e+08	1.59	y	1.28	26:03	1.029	1.023-1.033	85.3191	PCB-68	6.90e+07	0.75	y	1.35	33:59	1.059	1.054-1.064	48.3355
PCB-19	6.34e+07	1.08	y	1.04	24:20	1.001	0.996-1.006	56.3341	PCB-40	3.81e+07	0.74	y	0.70	34:12	1.065	1.061-1.071	51.1824
PCB-30	1.02e+08	1.08	y	1.71	25:13	1.038	1.032-1.042	55.0093	PCB-57	6.45e+07	0.75	y	0.98	34:33	0.970	0.965-0.975	49.2920
PCB-18	7.06e+07	1.06	y	0.78	25:58	0.954	0.949-0.959	56.6711	PCB-67	6.66e+07	0.75	y	1.11	34:52	0.979	0.974-0.984	45.0419
PCB-17	8.09e+07	1.08	y	0.92	26:09	0.960	0.956-0.966	54.9744	PCB-58	6.12e+07	0.76	y	0.93	34:59	0.982	0.977-0.987	49.3996
PCB-24/27	2.11e+08	1.07	y	1.19	26:43	0.981	0.977-0.987	111.394	PCB-63	5.95e+07	0.76	y	0.95	35:08	0.986	0.982-0.992	46.7452
PCB-16/32	1.66e+08	1.07	y	0.94	27:14	1.000	0.995-1.005	110.638	PCB-74	7.72e+07	0.76	y	1.24	35:25	0.994	0.990-1.000	46.4736
PCB-34	5.94e+07	0.97	y	1.14	28:02	0.961	0.955-0.965	46.4483	PCB-61/70	1.26e+08	0.75	y	0.95	35:35	0.999	0.995-1.005	98.6493
PCB-23	5.54e+07	0.98	y	1.28	28:07	0.963	0.959-0.969	38.4746	PCB-76/66	1.34e+08	0.75	y	1.04	35:49	1.006	1.001-1.011	95.8588
PCB-29	5.19e+07	0.97	y	1.08	28:22	0.972	0.967-0.977	42.7107	PCB-80	8.29e+07	0.75	y	1.19	36:02	1.000	0.996-1.006	49.9186
PCB-26	5.44e+07	0.99	y	1.21	28:35	0.979	0.974-0.984	40.0409	PCB-55	7.34e+07	0.76	y	1.04	36:22	1.009	1.005-1.015	50.6229
PCB-25	6.29e+07	0.97	y	1.26	28:44	0.985	0.979-0.989	44.3270	PCB-56/60	1.36e+08	0.76	y	1.01	36:52	1.023	1.019-1.029	96.4957
PCB-31	5.49e+07	0.97	y	1.28	29:05	0.997	0.992-1.002	37.9464	PCB-79	7.01e+07	0.76	y	1.08	37:56	1.053	1.048-1.058	46.5830
PCB-28	8.02e+07	1.00	y	1.71	29:12	1.001	0.995-1.005	41.6271	PCB-78	7.07e+07	0.74	y	1.27	38:38	0.987	0.982-0.992	47.0851
PCB-20/21/33	1.61e+08	0.97	y	1.08	29:49	1.022	1.017-1.027	132.441	PCB-81	7.93e+07	0.76	y	1.33	39:09	1.000	0.995-1.005	50.3870
PCB-22	5.76e+07	0.96	y	1.21	30:15	1.037	1.032-1.042	42.3319	PCB-77	6.23e+07	0.77	y	1.10	39:45	1.000	0.995-1.005	47.7206
PCB-36	5.06e+07	0.95	y	1.14	30:52	0.934	0.928-0.938	44.8995	PCB-104	5.12e+07	1.58	y	1.18	32:46	1.000	0.996-1.006	53.4861
PCB-39	5.01e+07	0.96	y	1.12	31:21	0.949	0.943-0.953	45.5506	PCB-96	4.91e+07	1.60	y	1.14	34:02	1.039	1.034-1.044	53.3109
PCB-38	4.58e+07	0.98	y	1.20	32:07	0.972	0.966-0.976	38.7505	PCB-103	4.03e+07	1.61	y	0.96	34:34	1.055	1.050-1.060	52.0824
PCB-35	5.25e+07	0.97	y	1.23	32:38	0.987	0.982-0.992	43.2144	PCB-100	3.99e+07	1.57	y	0.94	34:55	1.066	1.061-1.071	52.5902
PCB-37	5.11e+07	1.01	y	1.23	33:04	1.001	0.995-1.005	42.1709	PCB-94	3.28e+07	1.60	y	1.06	35:24	0.986	0.980-0.990	51.1200
PCB-54	7.07e+07	0.75	y	1.10	28:04	1.000	0.996-1.006	46.8958	PCB-95/98/102	1.14e+08	1.59	y	1.22	35:53	0.999	0.995-1.005	153.563
PCB-50	5.53e+07	0.75	y	0.88	29:15	1.042	1.037-1.047	45.9436	PCB-93	3.12e+07	1.54	y	0.84	36:01	1.003	0.997-1.007	60.8767
PCB-53	5.19e+07	0.75	y	1.06	29:53	0.946	0.942-0.952	45.9463	PCB-88/91	7.63e+07	1.58	y	1.12	36:18	1.011	1.005-1.015	112.485
PCB-51	4.99e+07	0.74	y	0.99	30:14	0.957	0.952-0.962	47.4271	PCB-121	4.72e+07	1.60	y	1.62	36:25	1.014	1.009-1.019	48.0701
PCB-45	4.43e+07	0.75	y	0.86	30:40	0.971	0.966-0.976	48.3101	PCB-84/92	7.02e+07	1.58	y	1.05	37:14	0.990	0.985-0.995	107.511
PCB-46	4.34e+07	0.75	y	0.85	31:09	0.986	0.981-0.991	48.4104	PCB-89	3.74e+07	1.57	y	1.13	37:25	0.995	0.991-1.001	53.0507

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by

Analyst: DMS

Date: 10/2/14

Reviewed

by

Analyst: \_\_\_\_\_

Date: \_\_\_\_\_

Client ID: PCB CS3 14F1302  
Lab ID: ST141002E1-1

Filename: 141002E1 S:1 Acq: 2-OCT-14 09:59:25 ConCal: ST141002E1-1  
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-90/101	7.23e+07	1.59 y	1.10	37:36	1.000	0.995-1.005	105.207		PCB-133/142	7.69e+07	1.24 y	0.82	42:33	0.982	0.977-0.987	101.172	
PCB-113	4.32e+07	1.59 y	1.41	37:50	1.006	1.002-1.012	49.0526		PCB-131	4.15e+07	1.25 y	0.91	42:42	0.986	0.981-0.991	49.2732	
PCB-99	4.79e+07	1.61 y	1.34	37:56	1.009	1.004-1.014	57.4516		PCB-146/165	1.13e+08	1.22 y	1.25	42:56	0.991	0.986-0.996	97.5768	
PCB-119	4.45e+07	1.57 y	1.53	38:25	0.988	0.982-0.992	51.3957		PCB-132/161	1.01e+08	1.23 y	1.10	43:10	0.997	0.992-1.002	98.1978	
PCB-108/112	7.52e+07	1.59 y	1.28	38:34	0.991	0.986-0.996	103.925		PCB-153	5.77e+07	1.24 y	1.25	43:20	1.000	0.995-1.005	49.8375	
PCB-83	4.34e+07	1.61 y	1.52	38:44	0.996	0.990-1.000	50.5241		PCB-168	6.92e+07	1.22 y	1.45	43:33	1.005	1.001-1.011	51.4972	
PCB-97	3.46e+07	1.59 y	1.18	38:55	1.000	0.995-1.005	51.8260		PCB-141	4.59e+07	1.23 y	1.09	44:05	1.000	0.995-1.005	49.6349	
PCB-86	2.73e+07	1.54 y	0.84	39:03	1.004	0.999-1.009	57.3282		PCB-137	4.66e+07	1.23 y	1.06	44:28	1.009	1.004-1.014	51.4790	
B-87/117/125	1.39e+08	1.60 y	1.55	39:11	1.007	1.002-1.012	158.925		PCB-130	3.78e+07	1.19 y	0.96	44:34	1.011	1.006-1.016	45.9956	
PCB-111/115	1.02e+08	1.58 y	1.63	39:21	1.012	1.006-1.016	110.601		PCB-138/163/164	1.73e+08	1.23 y	1.29	44:56	1.001	0.996-1.006	151.403	
PCB-85/116	7.57e+07	1.59 y	1.30	39:29	1.015	1.010-1.020	102.819		PCB-158/160	1.16e+08	1.22 y	1.34	45:11	1.006	1.001-1.011	97.6071	
PCB-120	4.93e+07	1.59 y	1.68	39:43	1.021	1.016-1.026	51.9868		PCB-129	3.84e+07	1.22 y	0.85	45:25	1.011	1.007-1.017	50.8384	
PCB-110	4.66e+07	1.60 y	1.56	39:51	1.024	1.020-1.030	53.0044		PCB-166	5.76e+07	1.24 y	1.19	45:53	0.993	0.988-0.998	49.6378	
PCB-82	2.92e+07	1.62 y	0.76	40:30	0.977	0.971-0.981	54.4295		PCB-159	5.67e+07	1.22 y	1.11	46:12	1.000	0.996-1.006	52.0770	
PCB-124	5.45e+07	1.59 y	1.47	41:09	0.992	0.988-0.998	52.4989		PCB-128/162	1.04e+08	1.24 y	1.05	46:30	1.007	1.002-1.012	101.720	
PCB-107/109	9.99e+07	1.59 y	1.32	41:18	0.996	0.991-1.001	107.073		PCB-167	6.52e+07	1.23 y	1.20	46:53	1.000	0.995-1.005	50.8507	
PCB-123	4.34e+07	1.62 y	1.17	41:29	1.000	0.996-1.006	52.6035		PCB-156	5.79e+07	1.22 y	1.14	48:12	1.001	0.996-1.006	52.2555	
PCB-106/118	9.34e+07	1.60 y	1.17	41:41	1.001	0.996-1.006	105.366		PCB-157	5.83e+07	1.22 y	1.16	48:28	1.000	0.995-1.005	48.5377	
PCB-114	5.61e+07	1.62 y	1.30	42:19	1.000	0.995-1.005	47.1469		PCB-169	4.75e+07	1.25 y	1.12	50:36	1.000	0.995-1.005	48.3966	
PCB-122	5.10e+07	1.58 y	1.12	42:27	1.003	0.999-1.009	49.5543										
PCB-105	5.27e+07	1.62 y	1.30	43:11	1.000	0.995-1.005	47.4911		PCB-188	5.91e+07	1.05 y	1.58	42:59	1.001	0.996-1.006	52.0655	
PCB-127	5.98e+07	1.65 y	1.33	43:32	1.001	0.996-1.006	47.0651		PCB-184	6.04e+07	1.04 y	1.63	43:26	1.011	1.006-1.016	51.5560	
PCB-126	4.51e+07	1.59 y	1.18	45:25	1.000	0.995-1.005	49.9783		PCB-175	4.73e+07	1.06 y	1.30	44:12	1.029	1.024-1.034	50.5550	
									PCB-176	5.31e+07	1.05 y	1.48	44:40	1.040	1.035-1.045	50.0549	
PCB-155	3.21e+07	1.30 y	1.11	37:10	1.001	0.966-1.006	52.5868		PCB-186	5.49e+07	1.05 y	1.45	45:17	1.054	1.050-1.060	52.6079	
PCB-150	2.93e+07	1.30 y	1.00	38:26	1.035	1.030-1.040	53.5312		PCB-178	3.85e+07	1.07 y	1.03	45:46	1.066	1.061-1.071	51.7878	
PCB-152	3.25e+07	1.27 y	1.12	38:54	1.047	1.043-1.053	53.0316		PCB-175	3.65e+07	1.07 y	1.01	46:07	1.074	1.069-1.079	50.1576	
PCB-145	3.54e+07	1.31 y	1.20	39:21	1.060	1.055-1.065	53.6197		PCB-182/187	9.44e+07	1.07 y	1.25	46:17	1.078	1.073-1.083	105.073	
PCB-136	3.48e+07	1.30 y	1.13	39:41	1.068	1.064-1.074	53.8190		PCB-183	4.60e+07	1.05 y	1.21	46:37	1.065	1.061-1.071	53.0214	
PCB-148	2.11e+07	1.32 y	0.74	39:46	1.071	1.066-1.076	51.6158		PCB-185	4.90e+07	1.06 y	1.80	47:16	0.956	0.951-0.961	52.4096	
PCB-154	2.54e+07	1.28 y	0.86	40:16	1.084	1.080-1.090	53.8555		PCB-174	3.94e+07	1.07 y	1.38	47:38	0.963	0.958-0.968	55.0590	
PCB-151	2.15e+07	1.29 y	0.75	40:55	1.101	1.097-1.107	52.5272		PCB-181	3.68e+07	1.06 y	1.38	47:45	0.965	0.960-0.970	51.2995	
PCB-135	2.20e+07	1.28 y	0.79	41:07	1.107	1.103-1.113	50.5462		PCB-177	3.44e+07	1.07 y	1.26	47:54	0.968	0.963-0.973	52.8204	
PCB-144	2.45e+07	1.27 y	0.76	41:14	1.110	1.105-1.117	58.5055		PCB-171	4.42e+07	1.07 y	1.58	48:12	0.974	0.970-0.980	53.8091	
PCB-147	2.41e+07	1.27 y	0.82	41:22	1.114	1.109-1.121	53.6413		PCB-173	3.09e+07	1.06 y	1.11	48:38	0.983	0.978-0.988	53.5691	
PCB-139/149	4.58e+07	1.28 y	0.76	41:38	1.121	1.116-1.128	109.514		PCB-172	4.49e+07	1.06 y	1.63	49:05	0.992	0.987-0.997	52.9377	
PCB-140	2.16e+07	1.27 y	0.72	41:49	1.126	1.121-1.133	54.5743		PCB-192	4.77e+07	1.06 y	1.74	49:16	0.996	0.991-1.001	52.7916	
PCB-134/143	8.83e+07	1.23 y	0.92	42:15	0.975	0.970-0.980	103.776		PCB-180	3.64e+07	1.05 y	1.34	49:29	1.000	0.995-1.005	52.1341	

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: Dms

Date: 10/2/14



Client ID: PCB CS3 14F1302  
Lab ID: ST141002E1-1

Filename: 141002E1 S:1 Acq: 2-OCT-14 09:59:25  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST141002E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	4.57e+07	1.06 y	1.72	49:41	1.005	0.999-1.009		51.2749
PCB-191	4.33e+07	1.07 y	1.69	49:56	1.010	1.004-1.014		49.1846
PCB-170	3.42e+07	1.06 y	1.60	50:58	1.000	0.995-1.005		52.5923
PCB-190	4.47e+07	1.06 y	2.21	51:08	1.004	0.998-1.008		49.7180
PCB-189	3.87e+07	1.07 y	1.55	52:28	1.000	0.995-1.005		51.2795
PCB-202	3.42e+07	0.89 y	1.08	48:24	1.000	0.995-1.005		51.3441
PCB-201	3.50e+07	0.91 y	1.15	48:53	1.010	1.005-1.015		49.4727
PCB-204	3.51e+07	0.92 y	1.14	49:02	1.014	1.008-1.018		50.1310
PCB-197	3.33e+07	0.92 y	1.07	49:21	1.020	1.015-1.025		50.5359
PCB-200	3.19e+07	0.91 y	1.06	50:14	1.038	1.032-1.044		48.8964
PCB-198	2.14e+07	0.90 y	0.76	51:33	1.066	1.059-1.069		46.0128
PCB-199	2.46e+07	0.91 y	0.80	51:40	1.068	1.061-1.071		50.1183
- PCB-196/203	4.85e+07	0.90 y	0.80	51:56	1.073	1.066-1.076		98.5804
- PCB-195	3.03e+07	0.91 y	1.23	53:05	0.984	0.979-0.989		49.2999
PCB-194	2.71e+07	0.91 y	1.21	53:58	1.000	0.995-1.005		44.6252
PCB-205	3.37e+07	0.88 y	1.54	54:14	1.005	1.001-1.011		43.6933
PCB-208	4.02e+07	1.32 y	0.93	53:14	1.000	0.995-1.005		49.6658
PCB-207	4.47e+07	1.32 y	1.08	53:32	1.006	1.001-1.011		47.4417
PCB-206	2.36e+07	1.29 y	1.02	55:36	1.000	0.995-1.005		48.6670
PCB-209	2.68e+07	1.18 y	1.17	56:58	1.000	0.995-1.005		50.2085

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	4.54e+08	2.99 y	16:14	1.27	150.944
Total Di-PCB	2.51e+09	1.59 y	20:12	1.21	1052.68
Total Tri-PCB	6.93e+08	1.08 y	24:20	1.10	445.021
Total Tri-PCB	9.28e+08	0.97 y	28:02	1.21	711.377
Total Tetra-PCB	2.56e+09	0.75 y	28:05	1.09	1989.34
Total Penta-PCB	1.72e+09	1.58 y	32:46	1.18	2179.46
Total Penta-PCB	2.95e+08	1.62 y	42:19	1.25	269.092
Total Hexa-PCB	3.70e+08	1.30 y	37:10	0.90	751.368
Total Hexa-PCB	1.48e+09	1.23 y	42:15	1.11	1423.94
Total Hepta-PCB	1.07e+09	1.05 y	42:59	1.42	1261.33
Total Octa-PCB	2.64e+08	0.89 y	48:24	0.96	445.092
Total Octa-PCB	9.38e+07	0.91 y	53:05	1.33	141.743
Total Nona-PCB	1.11e+08	1.32 y	53:14	1.01	149.695
Total Deca-PCB	2.68e+07	1.18 y	56:58	1.17	50.2085

Total PCB Conc:10917.5109080

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: DMS

Date: 10/2/14

Client ID: PCB CS3 14F1302  
 Lab ID: ST141002E1-1

Filename: 141002E1 S:1 Acq: 2-OCT-14 09:59:25  
 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

ConCal: ST141002E1-1  
 EndCAL: NA

Page 4 of

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	2.30e+08	3.54 y	0.87	16:13	0.623	0.629-0.635	↗	121	121										
13C-PCB-3	2.41e+08	3.50 y	0.91	18:49	0.723	0.725-0.733	↓	121	121	13C-PCB-79	1.31e+08	0.77 y	1.02	37:55	1.029	1.023-1.034	94.4	94.4	
13C-PCB-4	1.34e+08	1.61 y	0.59	20:10	0.774	0.775-0.783	↘	105	105	13C-PCB-178	4.77e+07	0.46 y	0.61	45:45	0.984	0.979-0.990	93.8	93.8	
13C-PCB-9	2.04e+08	1.58 y	0.90	21:57	0.843	0.842-0.850		104	104										
13C-PCB-11	2.07e+08	1.56 y	0.94	25:20	0.973	0.968-0.978		101	101	PS vs. IS									
13C-PCB-19	1.08e+08	1.09 y	0.53	24:18	0.934	0.930-0.940		92.7	92.7	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-28	1.13e+08	0.99 y	0.93	29:11	1.004	0.999-1.009		94.4	94.4	13C-PCB-79	1.31e+08	0.77 y	1.10	37:55	0.969	0.964-0.974	100	100	
13C-PCB-32	1.60e+08	1.12 y	0.80	27:14	1.046	1.040-1.050		91.6	91.6	13C-PCB-178	4.77e+07	0.46 y	0.90	45:45	0.925	0.920-0.930	102	102	
13C-PCB-37	9.86e+07	0.98 y	0.84	33:03	1.137	1.131-1.143		91.8	91.8										
13C-PCB-47	1.06e+08	0.76 y	0.81	32:06	0.871	0.866-0.874		95.9	95.9										
13C-PCB-52	1.06e+08	0.75 y	0.77	31:35	0.857	0.853-0.861		101	101										
13C-PCB-54	1.37e+08	0.79 y	0.97	28:04	0.761	0.758-0.766		103	103										
13C-PCB-70	1.34e+08	0.77 y	1.00	35:37	0.966	0.961-0.971		98.4	98.4										
13C-PCB-77	1.19e+08	0.79 y	0.94	39:44	1.078	1.073-1.083		92.5	92.5										
13C-PCB-80	1.39e+08	0.78 y	1.03	36:02	0.978	0.972-0.982		99.2	99.2										
13C-PCB-81	1.18e+08	0.77 y	0.92	39:09	1.062	1.057-1.067		94.2	94.2										
13C-PCB-95	6.08e+07	1.59 y	0.74	35:55	0.913	0.908-0.918		101	101										
13C-PCB-97	5.65e+07	1.61 y	0.70	38:54	0.989	0.984-0.994		99.0	99.0	RS									
13C-PCB-101	6.25e+07	1.63 y	0.78	37:36	0.956	0.951-0.961		98.4	98.4	Name	Resp	RA	RRF	RT	Conc				
13C-PCB-104	8.09e+07	1.59 y	1.00	32:45	0.833	0.828-0.836		99.6	99.6	13C-PCB-15	2.19e+08	1.55 y	1.00	26:02	100				
13C-PCB-105	8.55e+07	1.52 y	1.37	43:10	0.929	0.924-0.934		75.5	75.5	13C-PCB-31	1.28e+08	1.00 y	1.00	29:04	100				
13C-PCB-114	9.18e+07	1.53 y	1.36	42:19	0.911	0.905-0.915		81.3	81.3	13C-PCB-60	1.36e+08	0.76 y	1.00	36:51	100				
13C-PCB-118	7.56e+07	1.65 y	0.96	41:39	1.059	1.054-1.064		97.3	97.3	13C-PCB-111	8.10e+07	1.59 y	1.00	39:20	100				
13C-PCB-123	7.06e+07	1.62 y	0.89	41:28	1.054	1.050-1.060		97.4	97.4	13C-PCB-128	8.29e+07	1.27 y	1.00	46:28	100				
13C-PCB-126	7.65e+07	1.52 y	1.31	45:25	0.977	0.972-0.982		70.6	70.6	13C-PCB-205	6.23e+07	0.88 y	1.00	54:13	100				
13C-PCB-127	9.54e+07	1.55 y	1.47	43:31	0.936	0.931-0.941		78.1	78.1										
13C-PCB-138	8.86e+07	1.30 y	1.10	44:55	0.966	0.961-0.971		97.2	97.2										
13C-PCB-141	8.52e+07	1.28 y	1.07	44:04	0.948	0.943-0.953		95.6	95.6										
13C-PCB-153	9.28e+07	1.26 y	1.15	43:19	0.932	0.927-0.937		97.6	97.6										
13C-PCB-155	5.49e+07	1.30 y	0.84	37:08	0.944	0.939-0.949		80.7	80.7										
13C-PCB-156	9.76e+07	1.27 y	1.30	48:10	1.037	1.032-1.042		90.8	90.8										
13C-PCB-157	1.03e+08	1.27 y	1.36	48:27	1.042	1.038-1.048		91.8	91.8										
13C-PCB-159	9.80e+07	1.25 y	1.25	46:11	0.994	0.989-0.999		94.8	94.8										
13C-PCB-167	1.07e+08	1.26 y	1.35	46:53	1.009	1.004-1.014		95.3	95.3										
13C-PCB-169	8.78e+07	1.26 y	1.29	50:35	1.088	1.083-1.093		82.4	82.4										
13C-PCB-170	4.07e+07	0.47 y	0.54	50:57	1.096	1.089-1.101		90.6	90.6										
13C-PCB-180	5.19e+07	0.46 y	0.68	49:28	1.064	1.060-1.070		91.6	91.6										
13C-PCB-188	7.18e+07	0.47 y	0.92	42:57	0.924	0.919-0.929		94.4	94.4										
13C-PCB-189	4.87e+07	0.48 y	0.72	52:27	1.129	1.120-1.132		82.1	82.1										
13C-PCB-194	5.01e+07	0.91 y	0.80	53:57	0.995	0.990-1.000		101	101										
13C-PCB-202	6.14e+07	0.92 y	0.84	48:23	1.041	1.036-1.046		88.5	88.5										
13C-PCB-206	4.74e+07	0.78 y	0.65	55:35	1.025	1.021-1.031		117	117										
13C-PCB-208	8.69e+07	0.78 y	1.08	53:13	0.981	0.976-0.986		129	129										
13C-PCB-209	4.55e+07	1.20 y	0.61	56:58	1.051	1.045-1.055		120	120										

*\* = RRT limits used for DATA processing only. RRT's within 1668c METHOD limits. DMS 10/2/14*

Analyst: DMS

Date: 10/2/14

Vista Analytical Laboratory - Injection Log Run file: 141002E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141002E1	1	ST141002E1-1	DMS	2-OCT-14	09:59:25	ST141002E1-1	NA
141002E1	2	B4I0107-BS1	DMS	2-OCT-14	11:03:55	ST141002E1-1	NA
141002E1	3	SOLVENT BLANK	DMS	2-OCT-14	12:08:18	ST141002E1-1	NA
141002E1	4	B4I0107-BLK1	DMS	2-OCT-14	13:12:48	ST141002E1-1	NA
141002E1	5	1400668-03RE2 DL 1:100	DMS	2-OCT-14	14:17:11	ST141002E1-1	NA
141002E1	6	SOLVENT BLANK	DMS	2-OCT-14	15:21:36	ST141002E1-1	NA
141002E1	7	SOLVENT BLANK	DMS	2-OCT-14	16:25:59	ST141002E1-1	NA

# CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST141002E1-1

End Calibration ID: NA

	<b>Beg.</b>	<b>End</b>
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"/> <i>ms</i> <i>10/3/14</i>	<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"/> <i>y</i>	<input type="checkbox"/> <i>n</i>

	<b>Beg.</b>	<b>End</b>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input 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:**

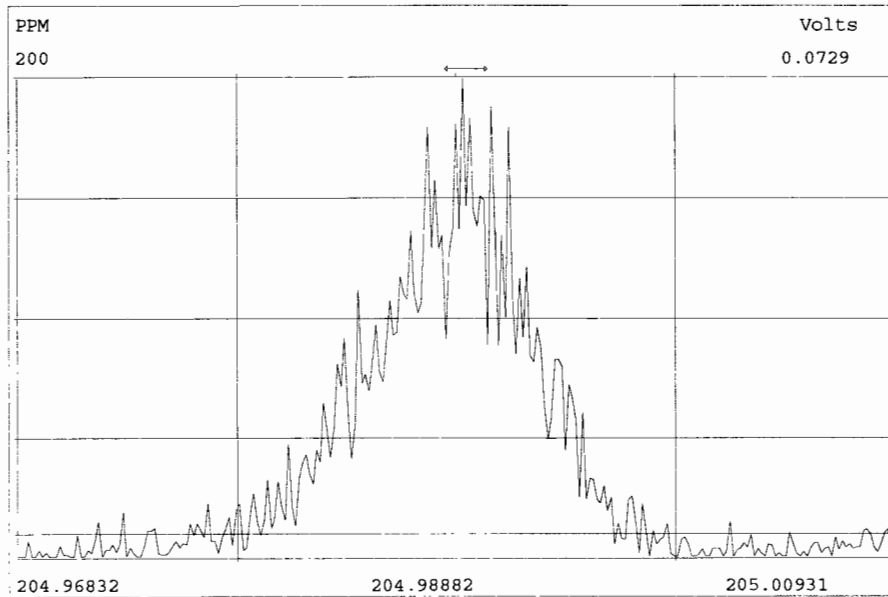
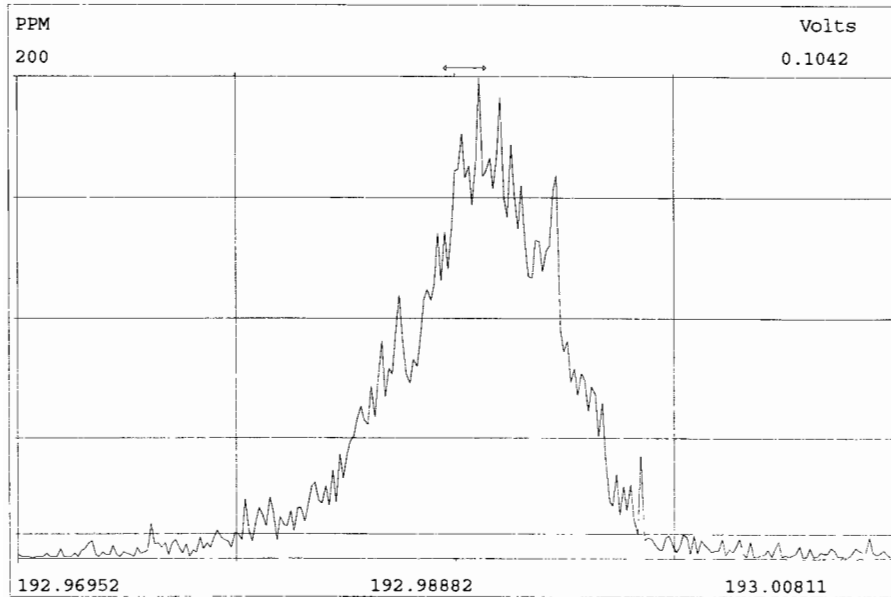
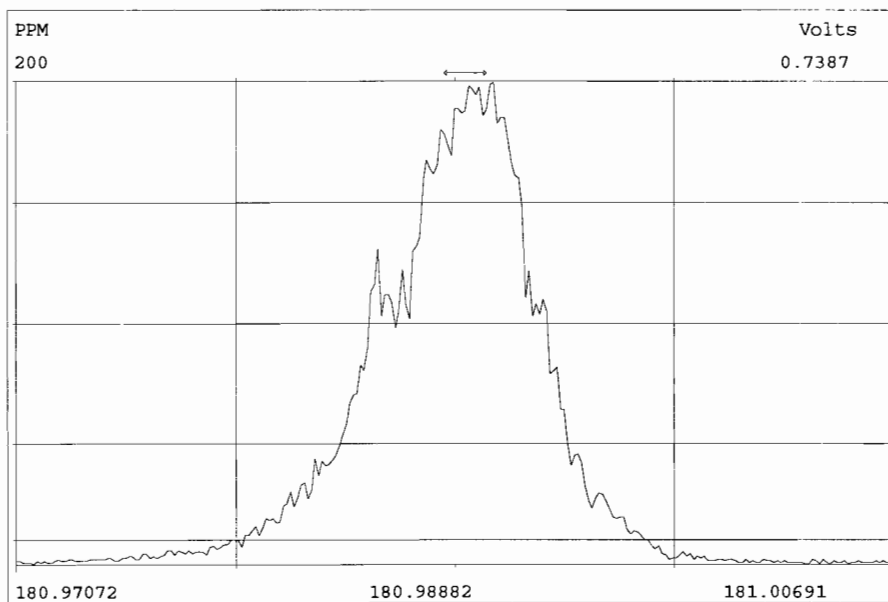
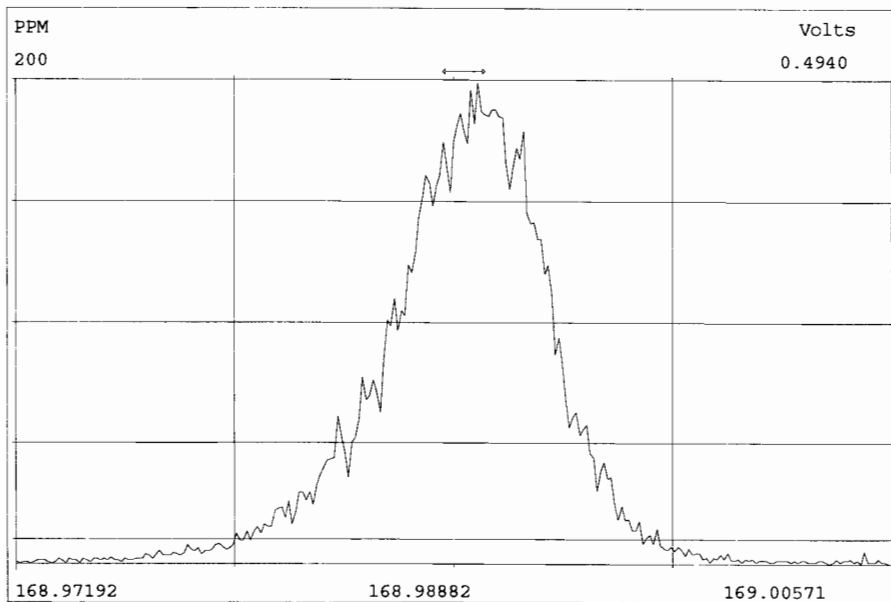
Reviewed by: ms 10/3/14  
Initials & Date

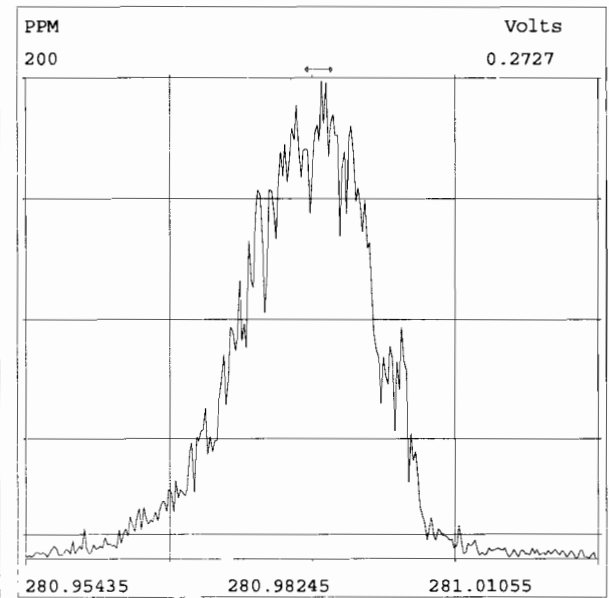
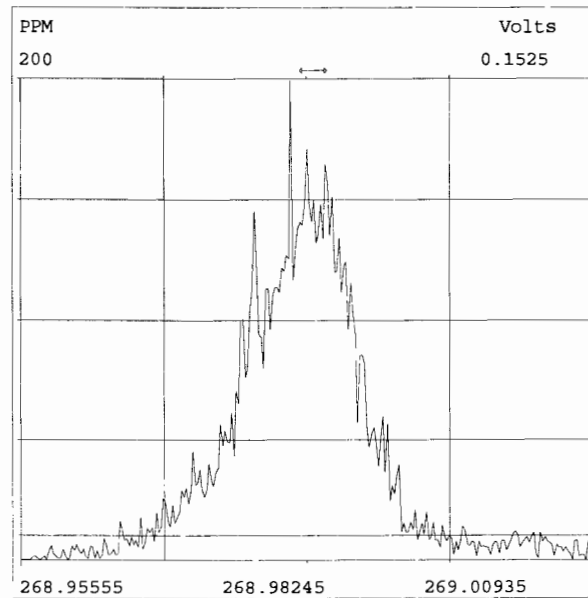
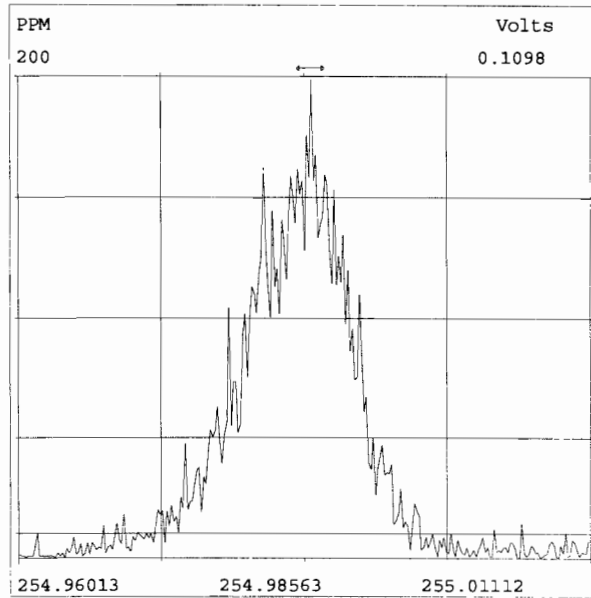
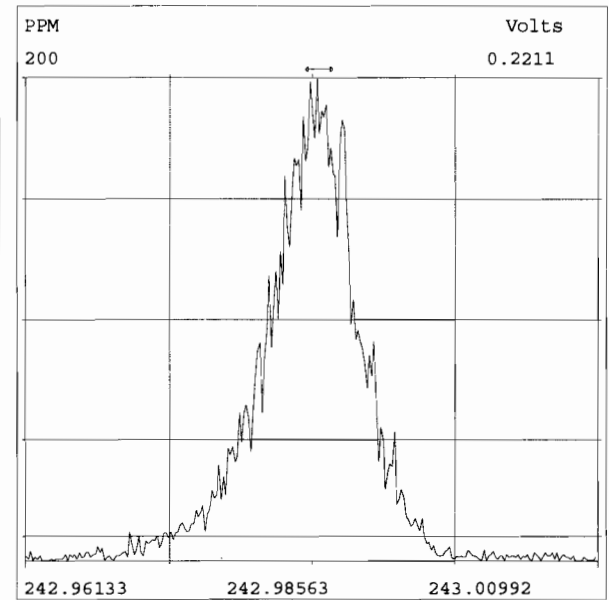
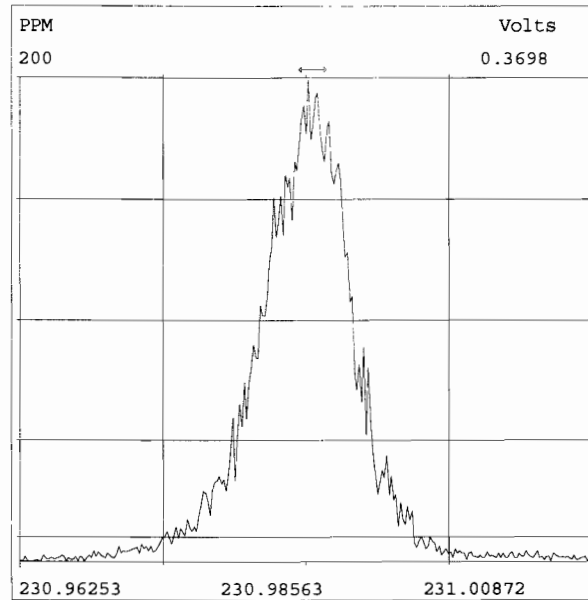
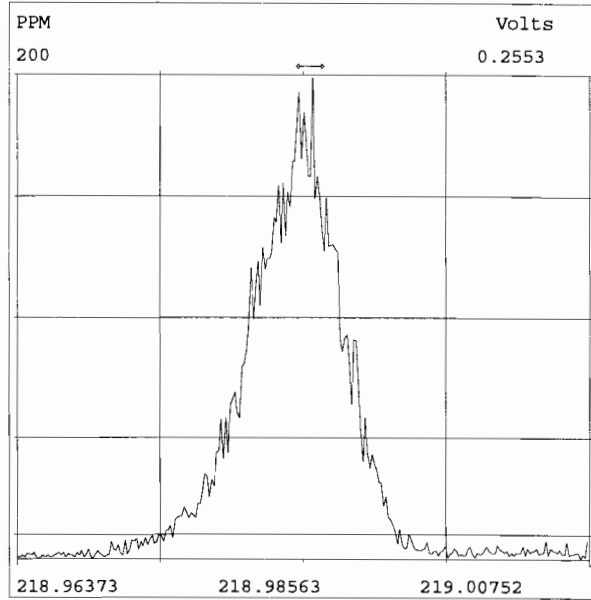
\* Ending standard criteria applicable to 8290 only.

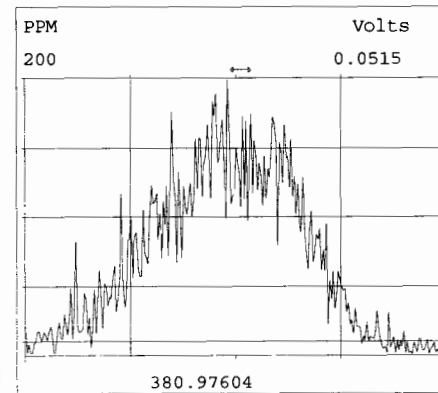
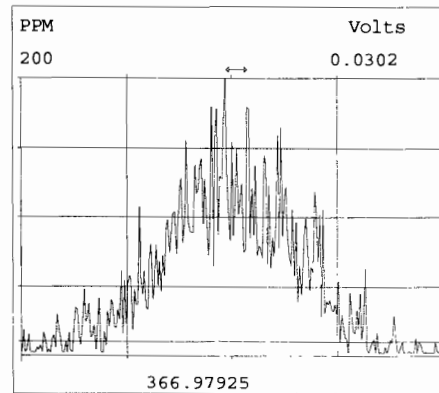
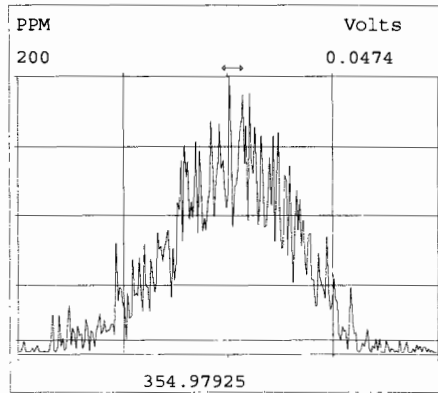
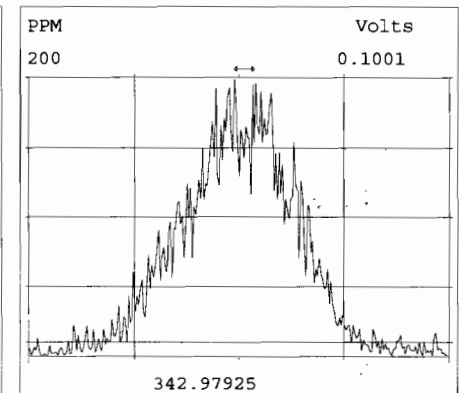
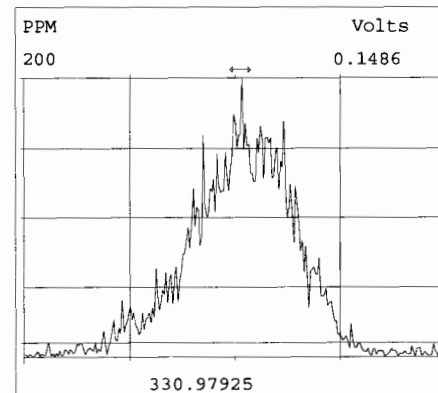
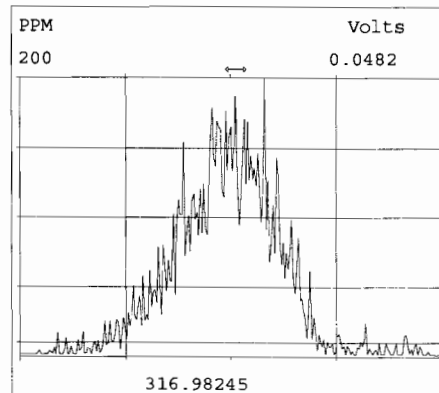
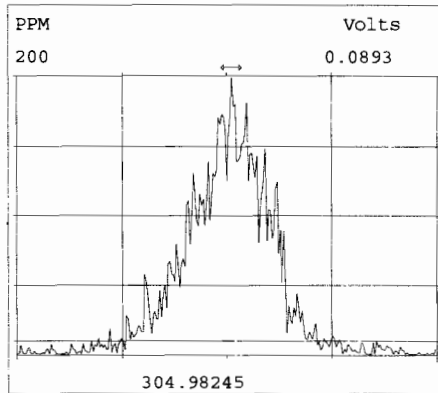
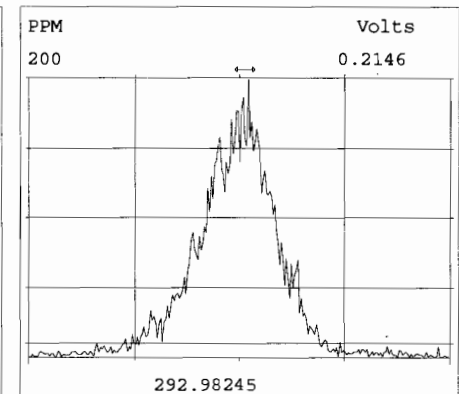
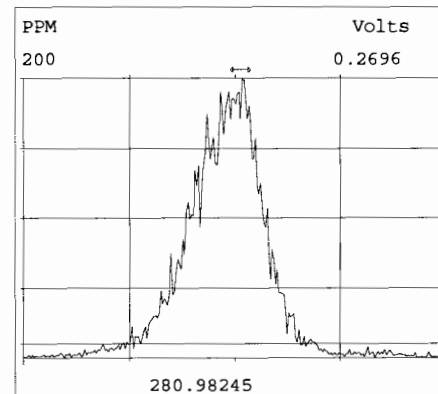
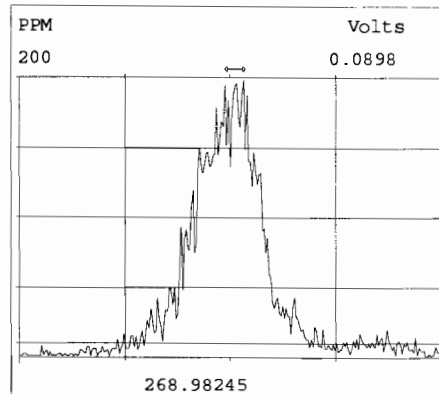
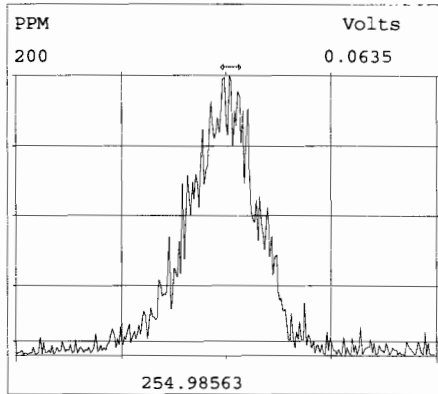
Vista Analytical Laboratory  
El Dorado Hills, CA 95762

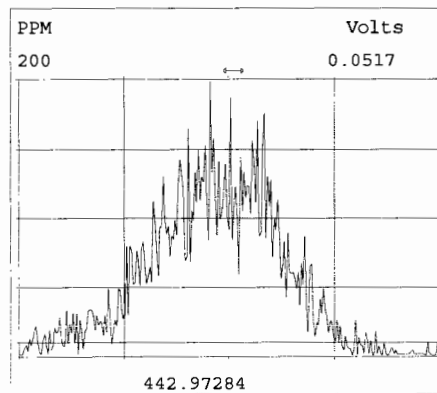
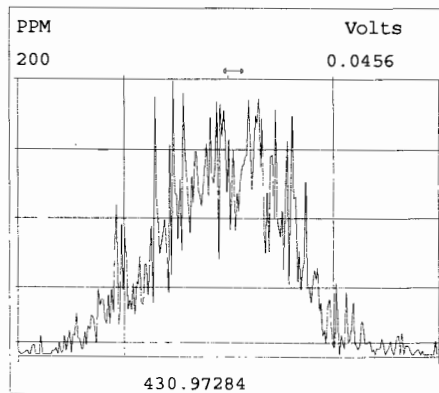
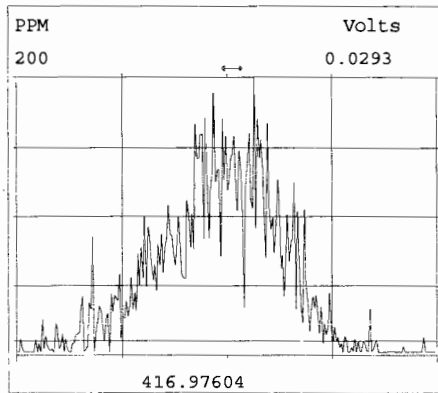
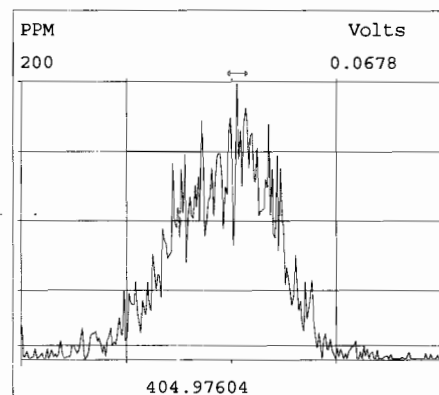
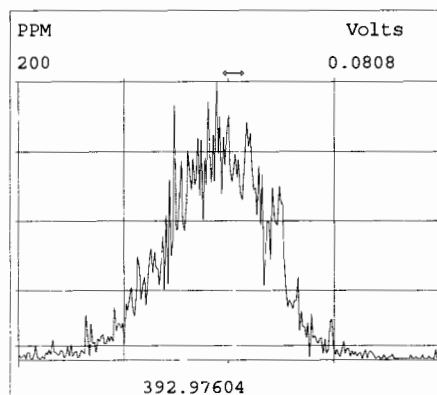
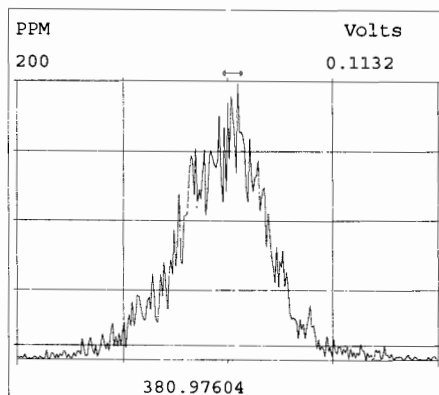
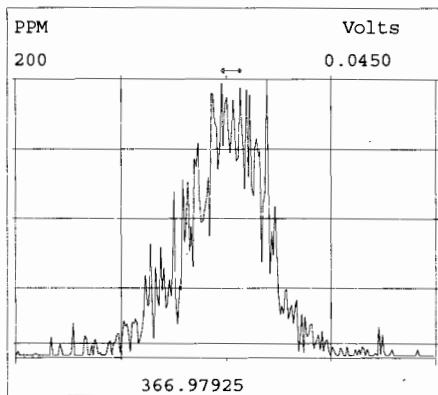
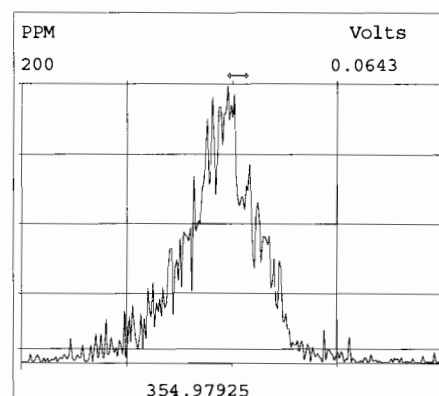
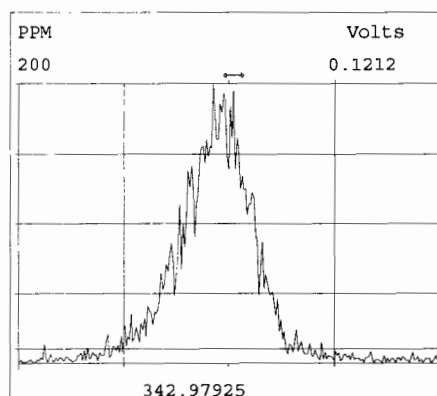
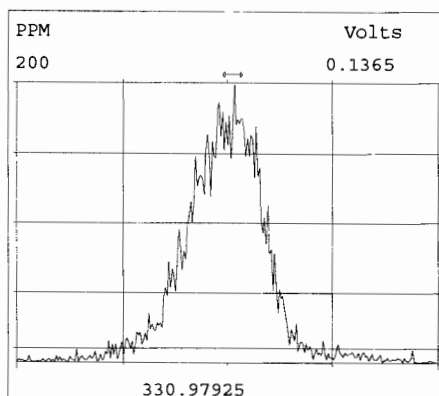
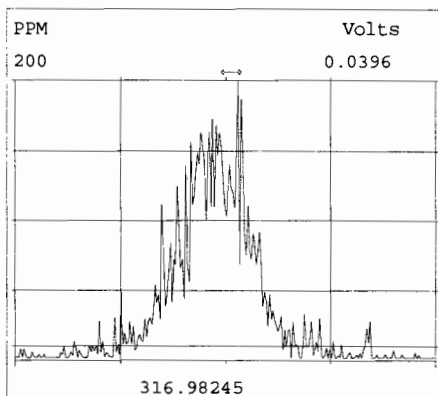
Peak Locate Examination: 2-OCT-2014:09:57 File:141002E1

Experiment:PCB\_ZB1 Function:1 Reference:PFK

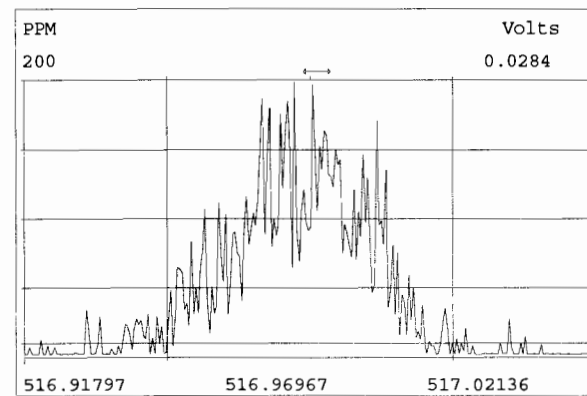
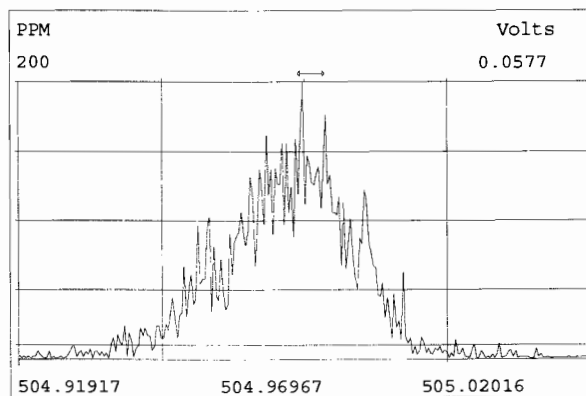
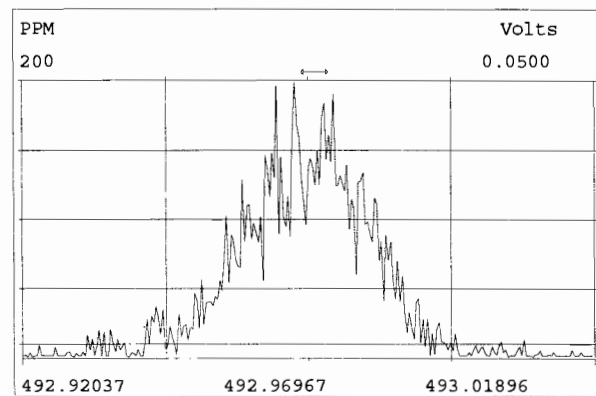
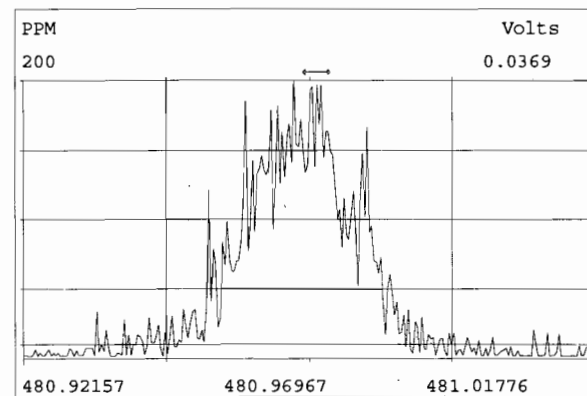
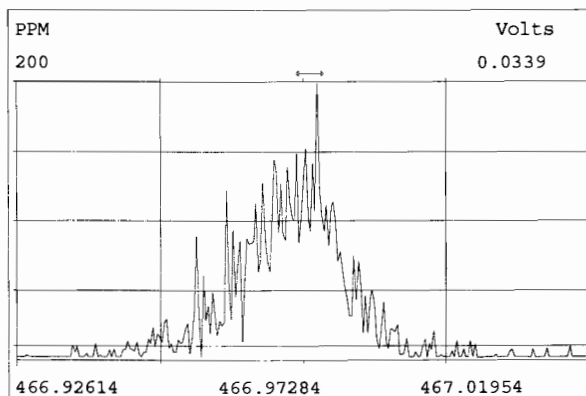
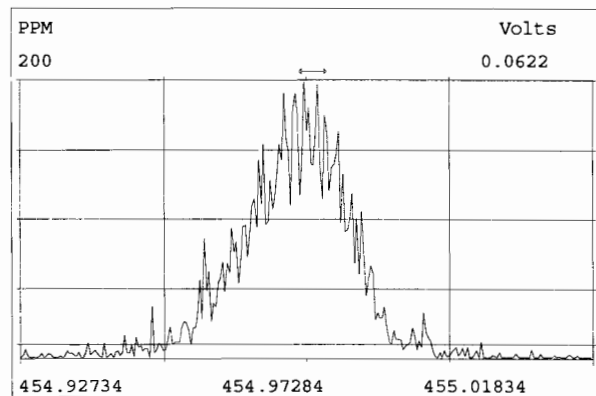
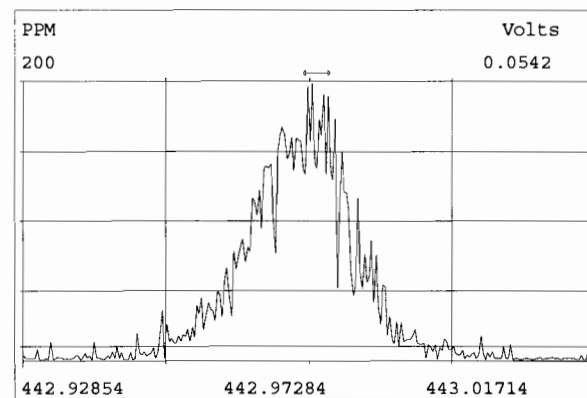
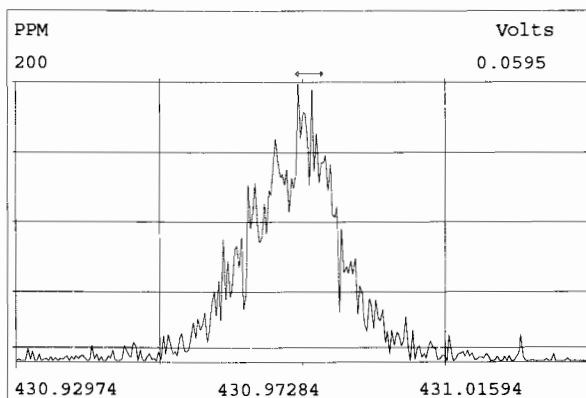
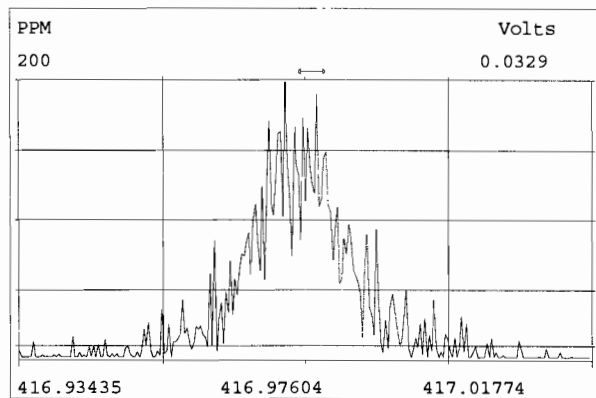




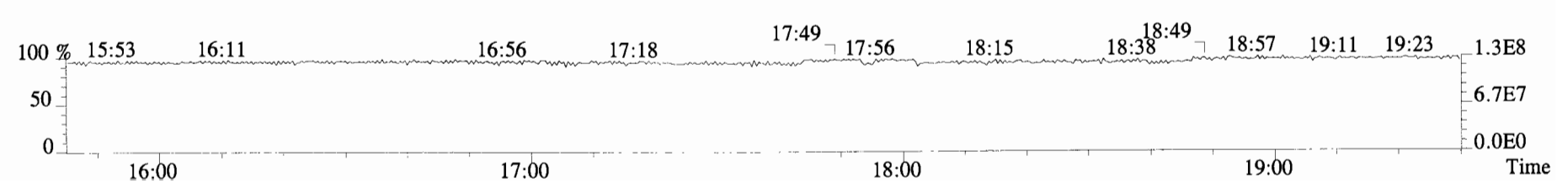
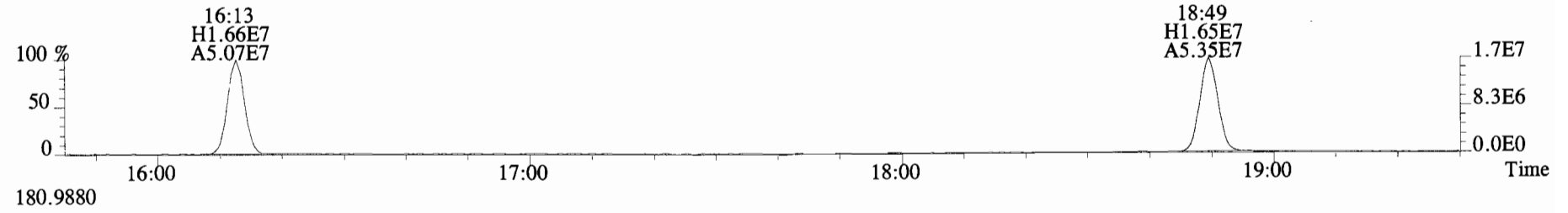
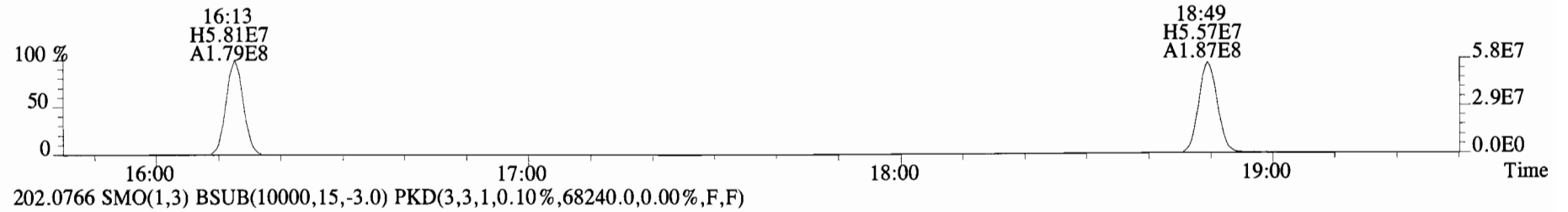
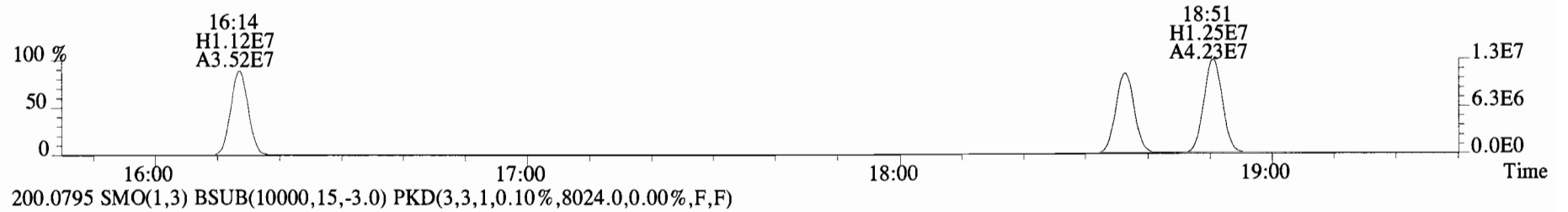
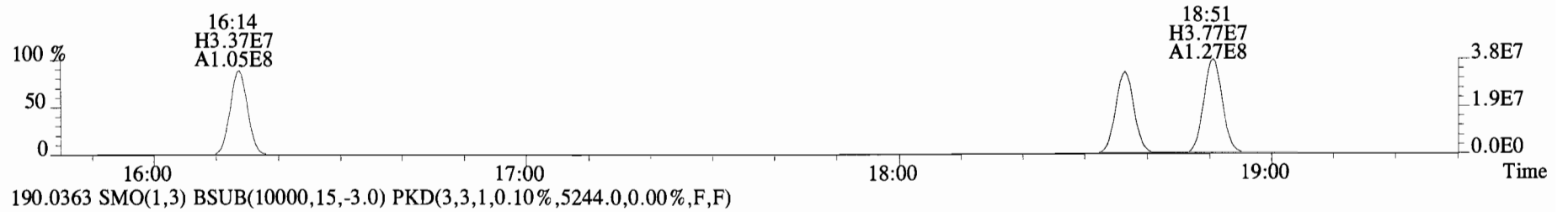




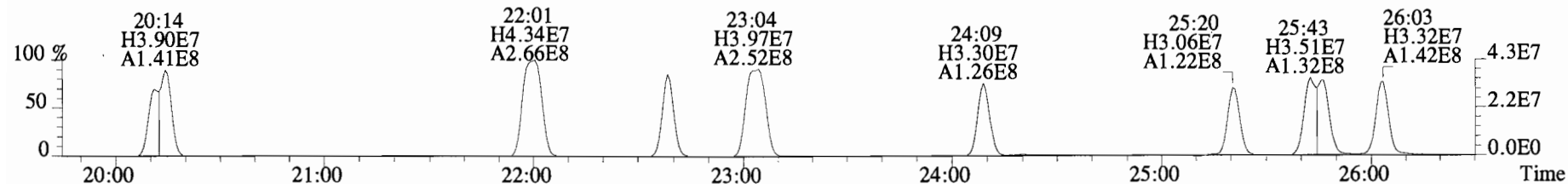




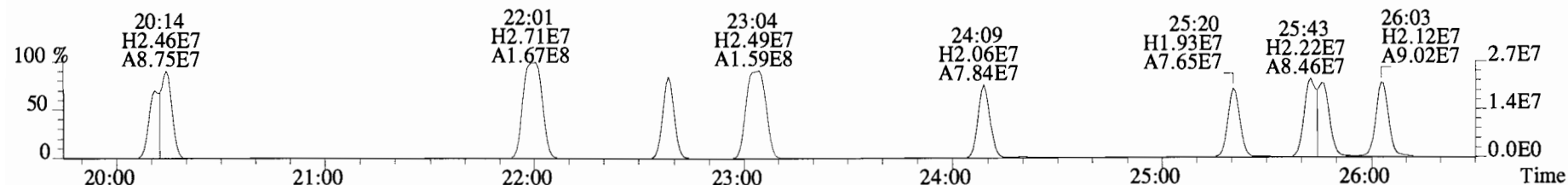
File:141002E1 #1-728 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
188.0393 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3108.0,0.00%,F,F)



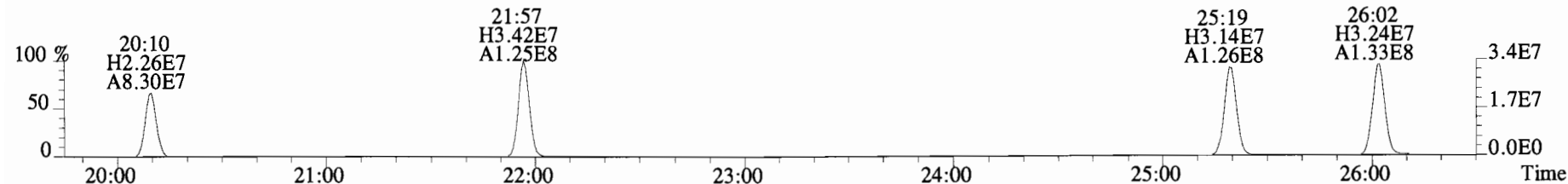
File:141002E1 #1-757 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
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 222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11320.0,0.00%,F,F)



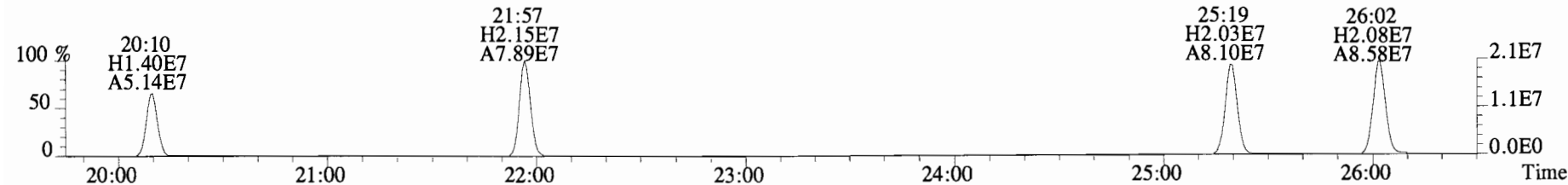
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21288.0,0.00%,F,F)



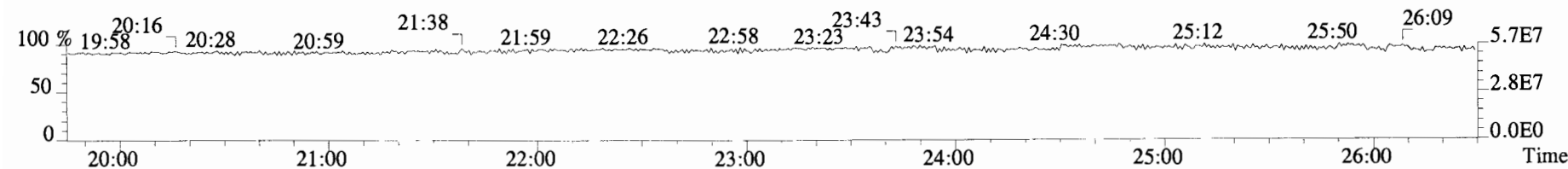
234.0406 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4860.0,0.00%,F,F)



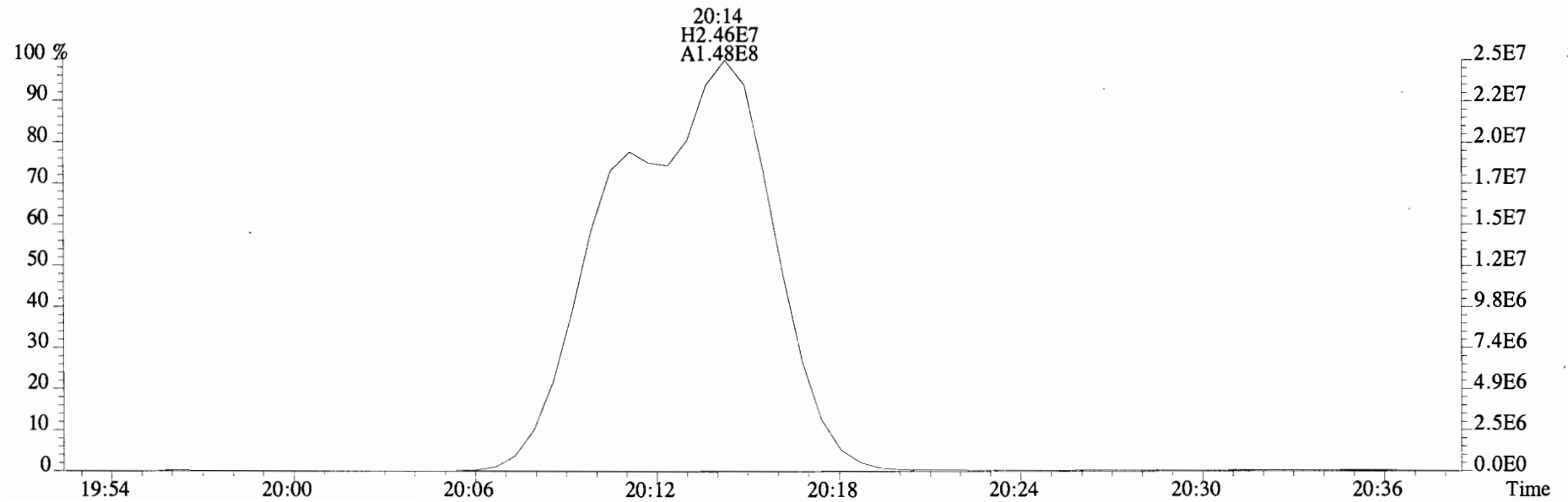
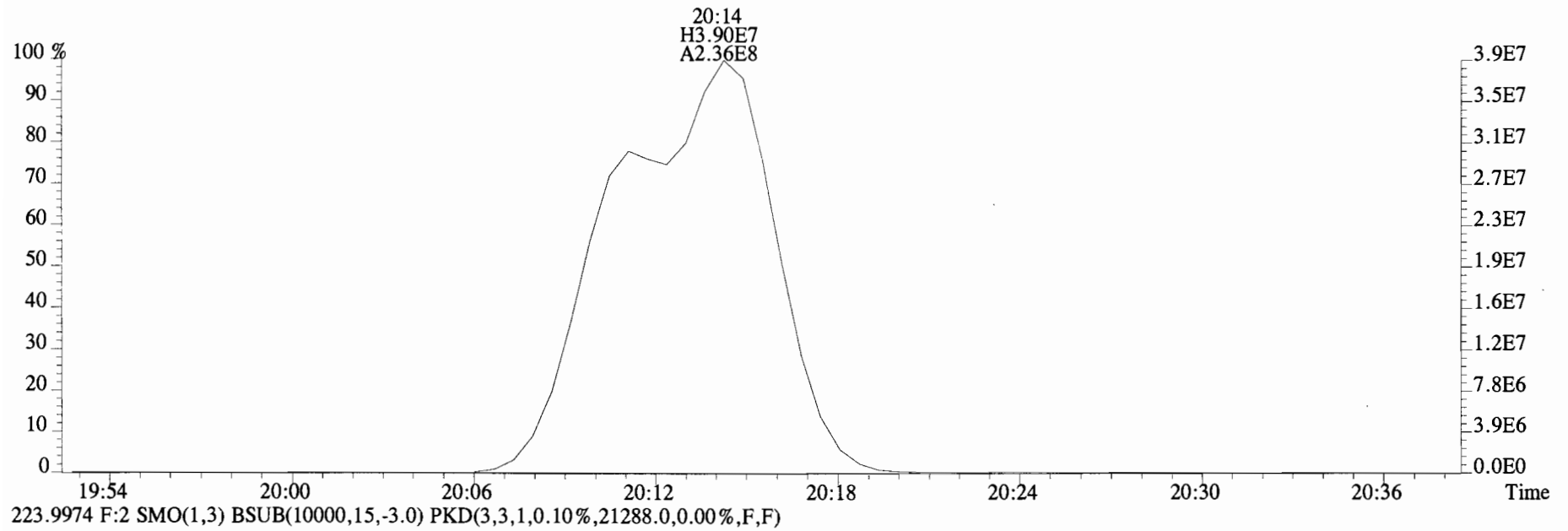
236.0376 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6844.0,0.00%,F,F)



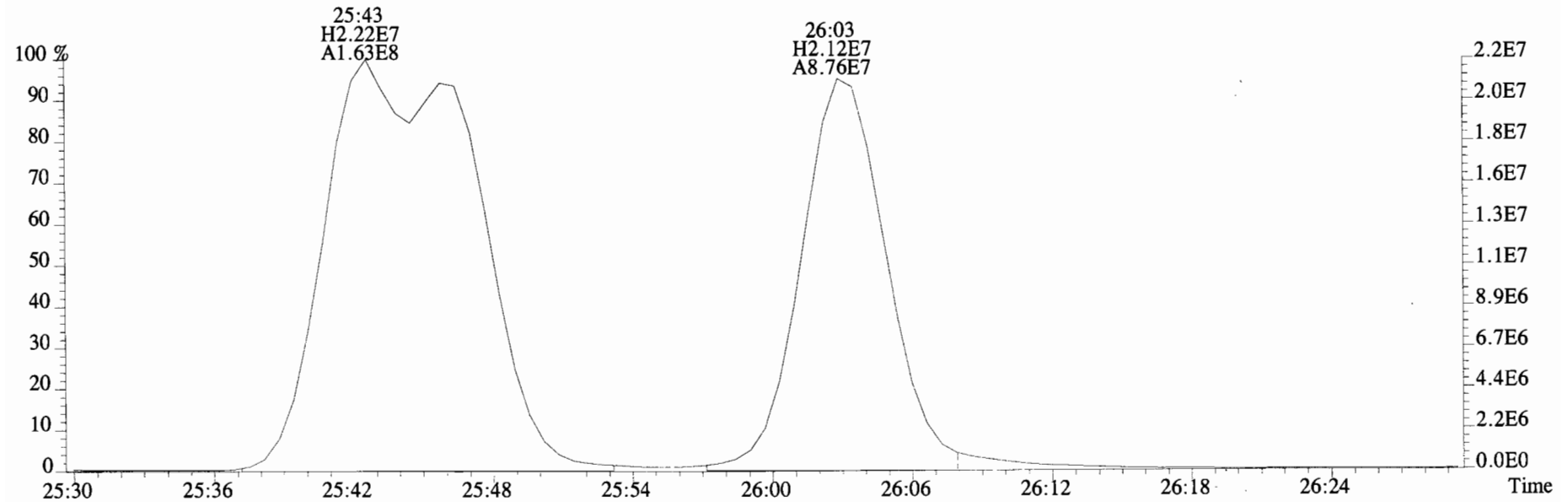
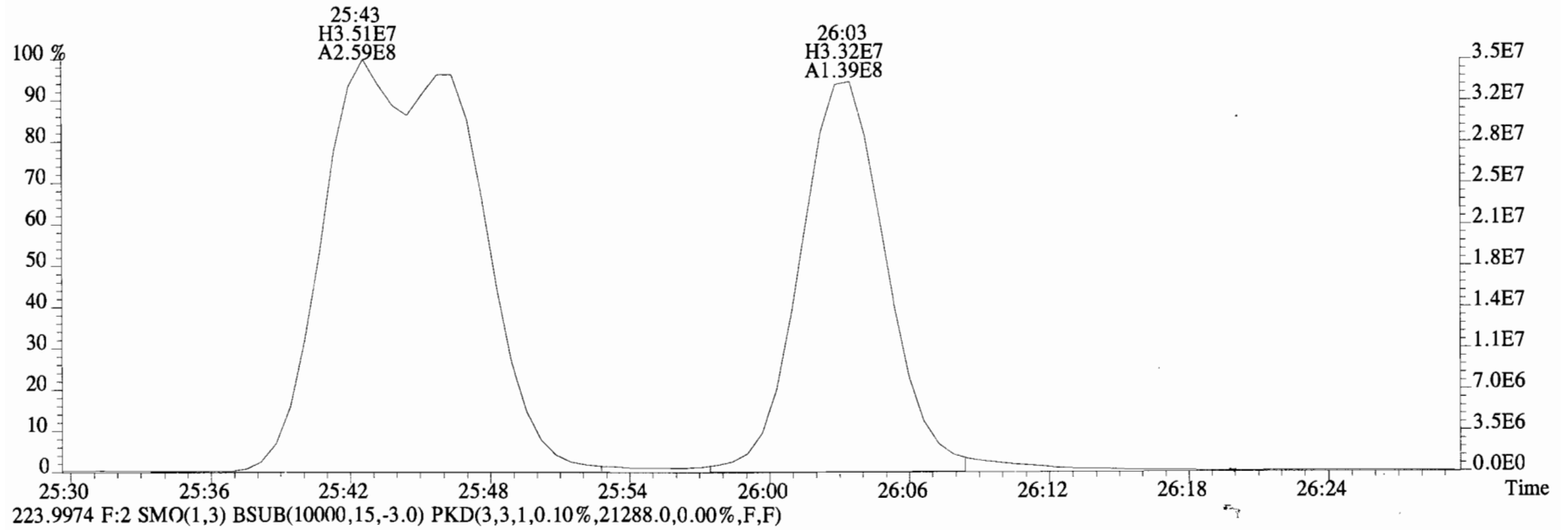
230.9856 F:2



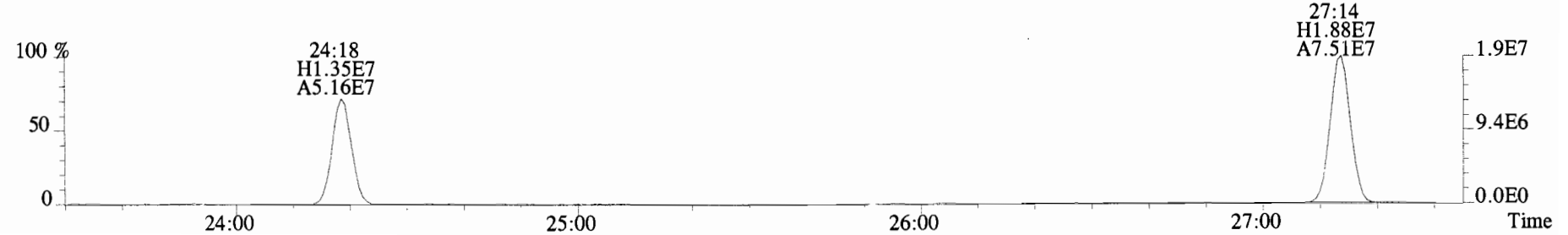
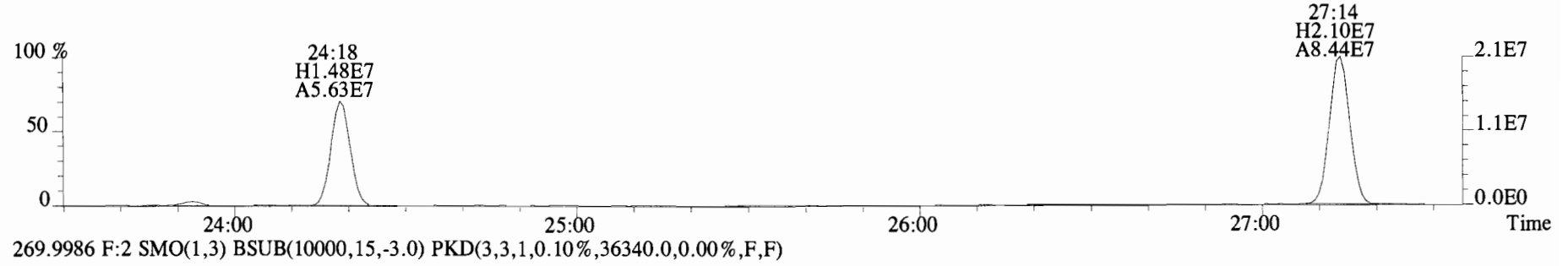
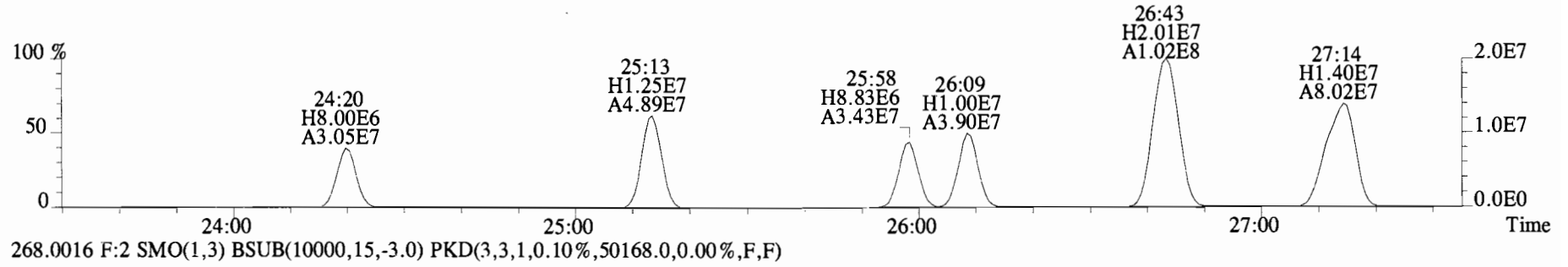
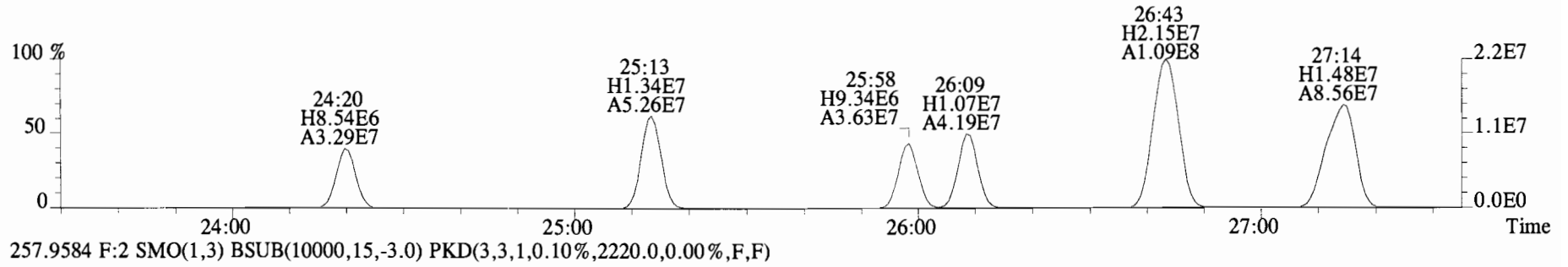
File:141002E1 #1-757 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11320.0,0.00%,F,F)



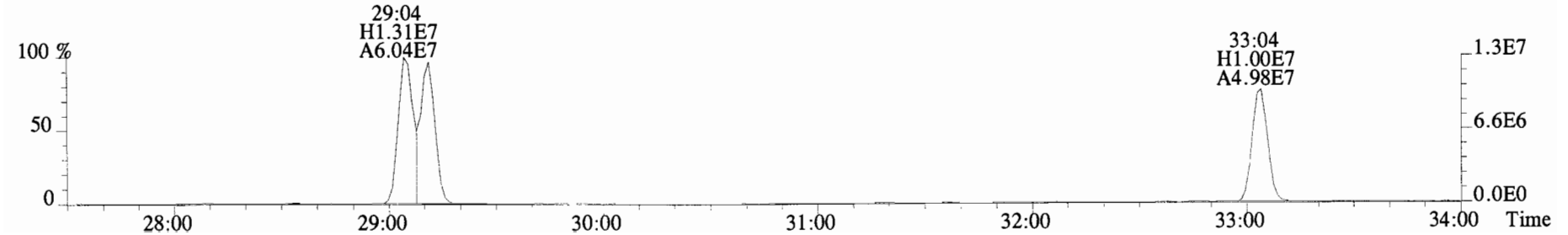
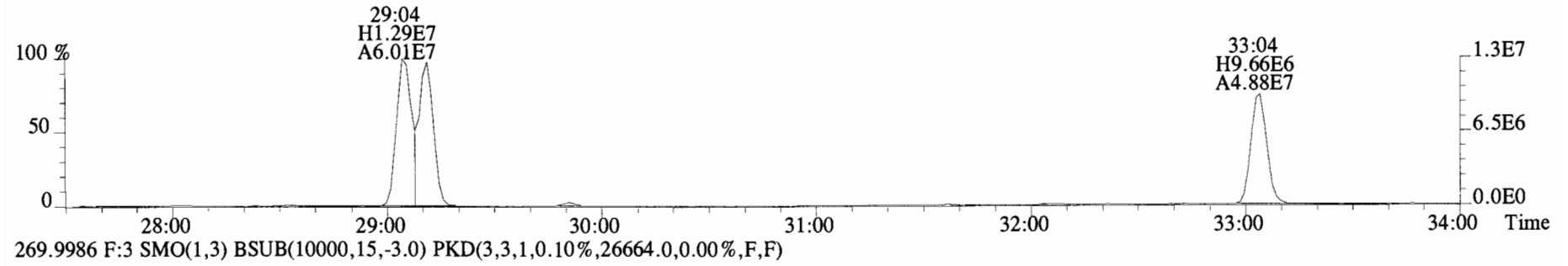
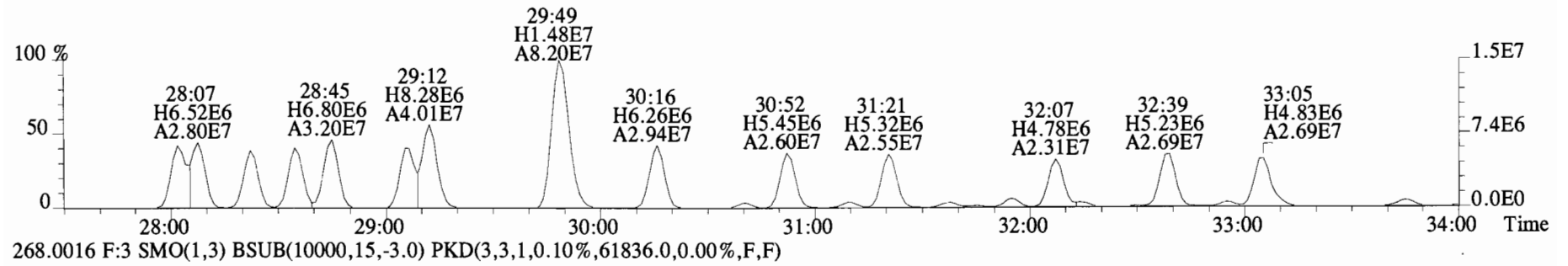
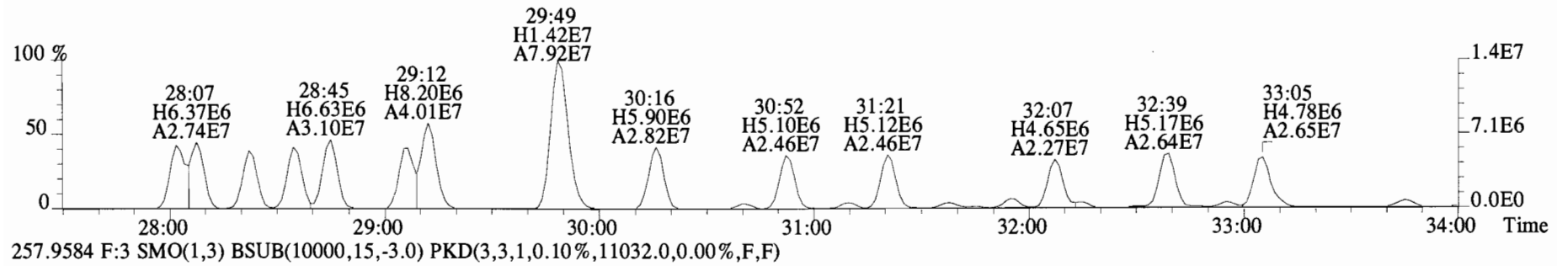
File:141002E1 #1-757 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11320.0,0.00%,F,F)



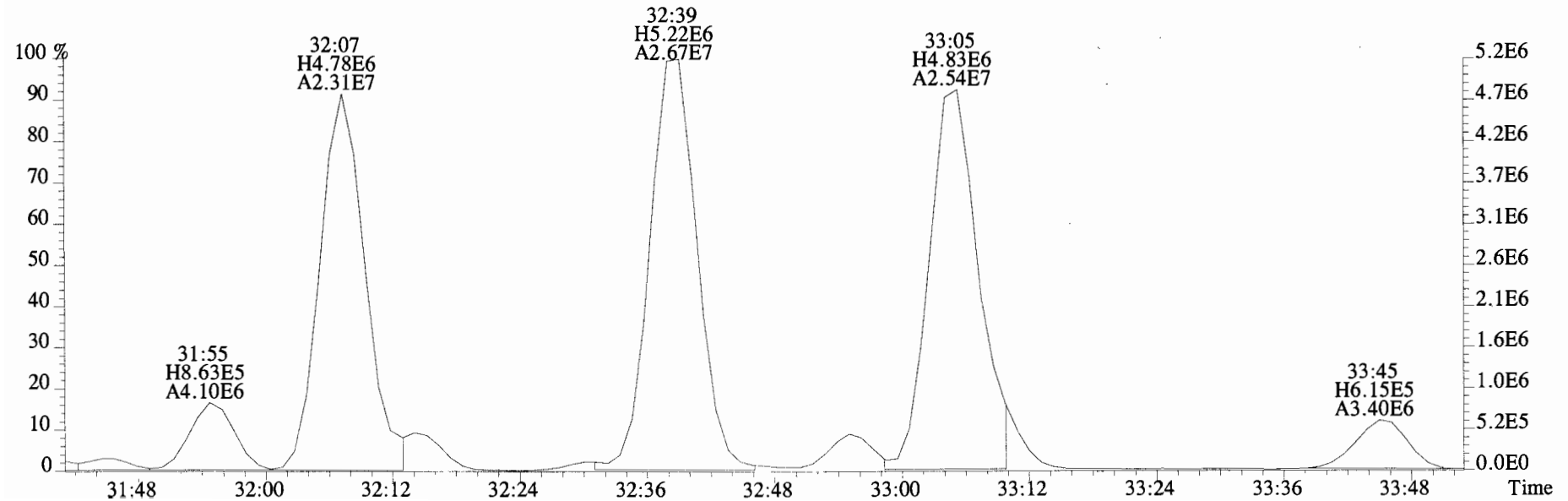
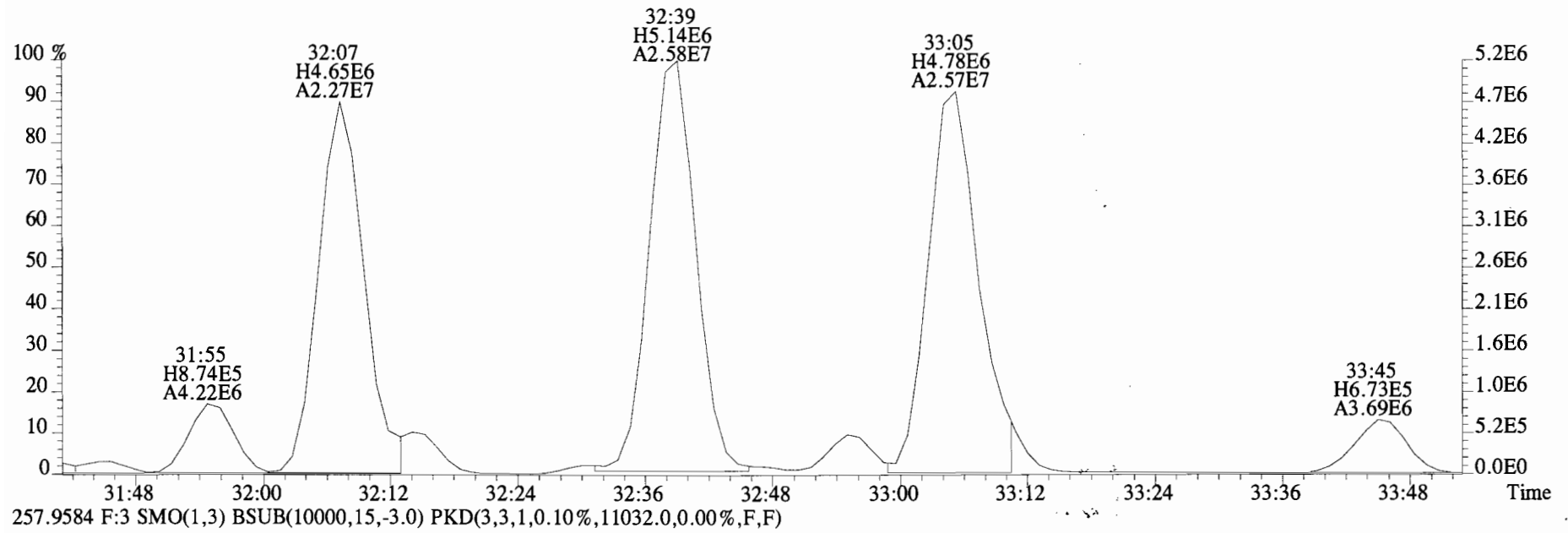
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Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5348.0,0.00%,F,F)



File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8084.0,0.00%,F,F)

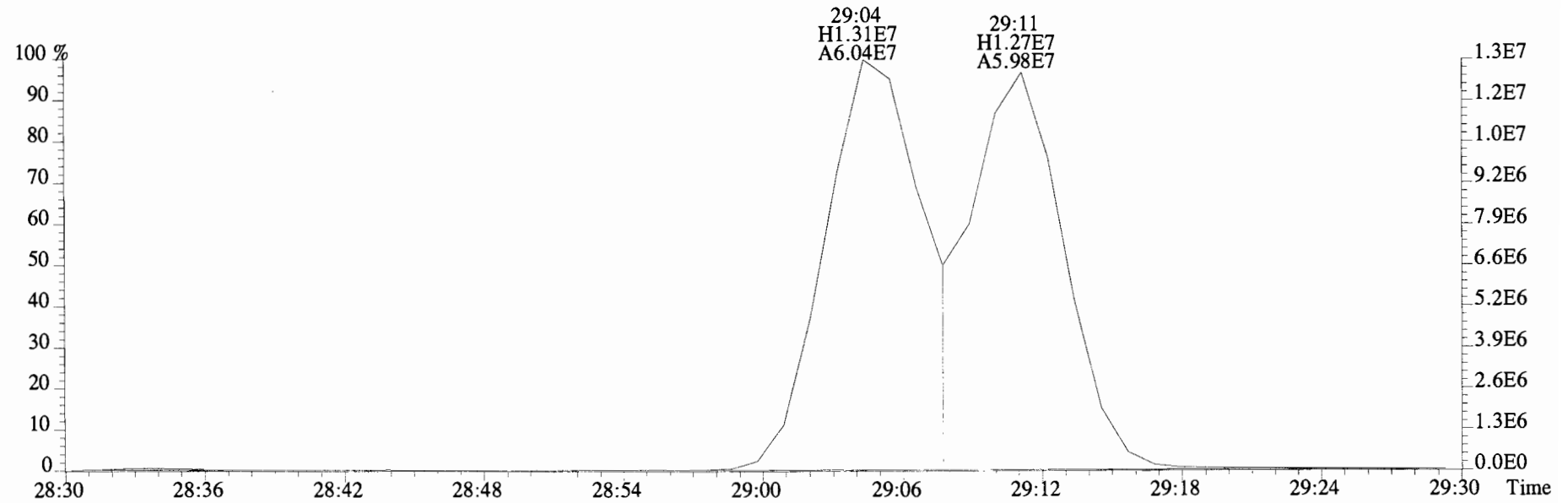
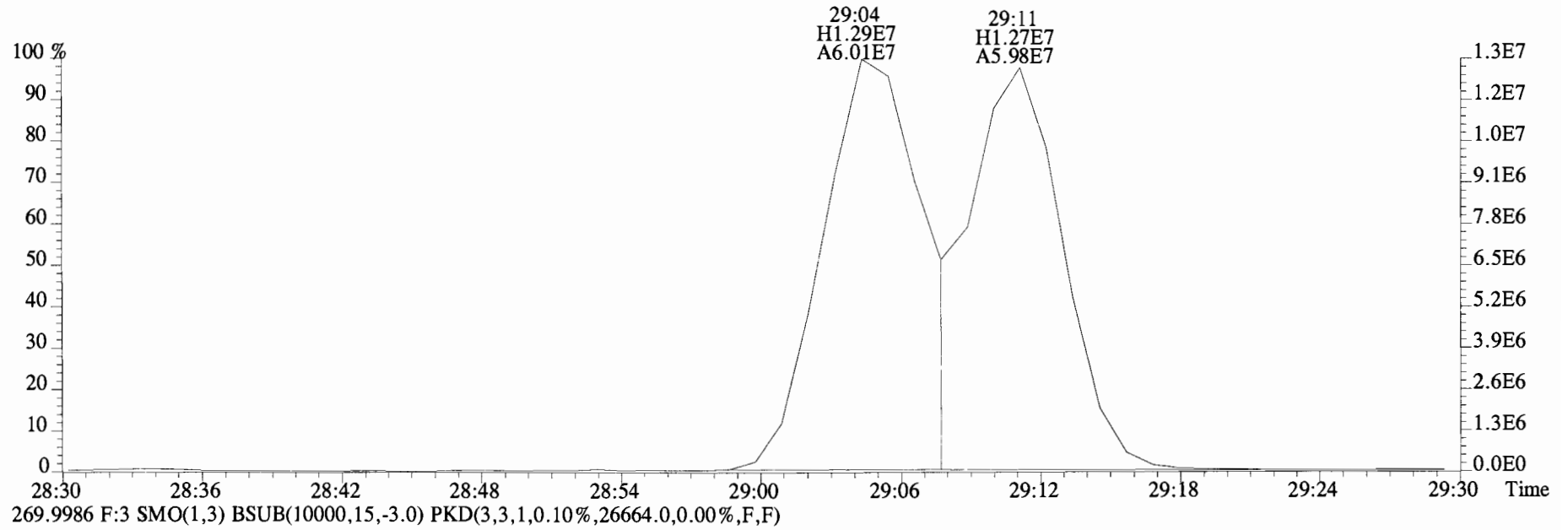


File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8084.0,0.00%,F,F)

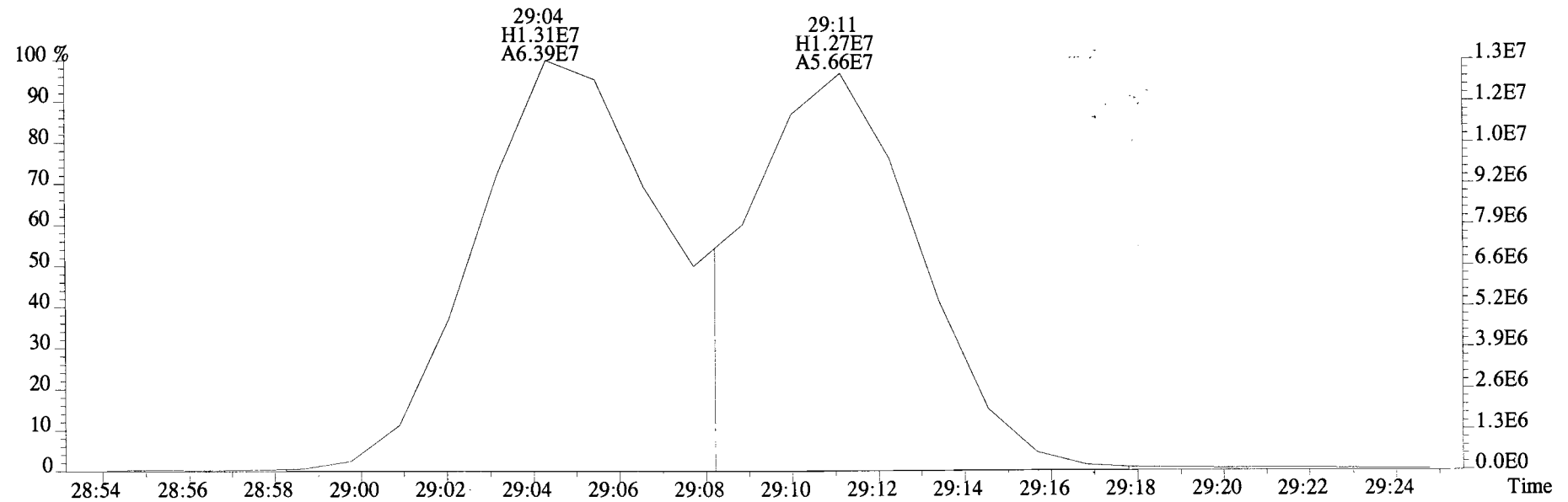
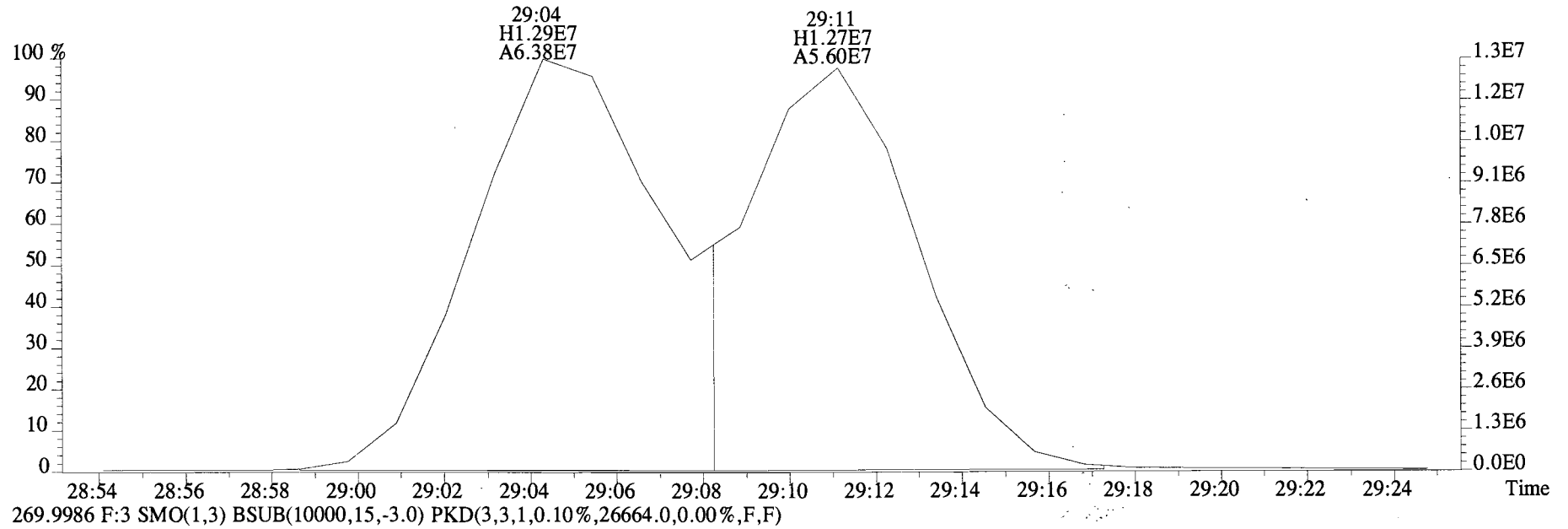




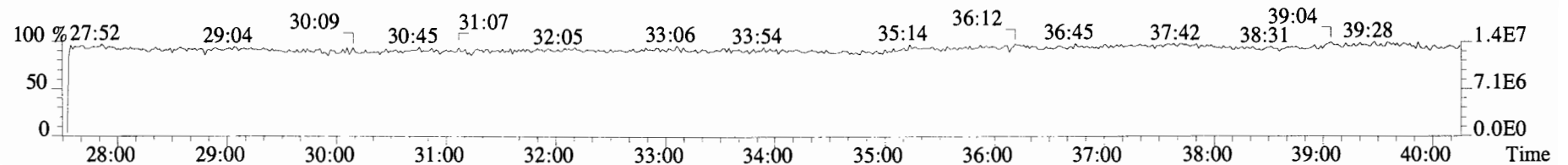
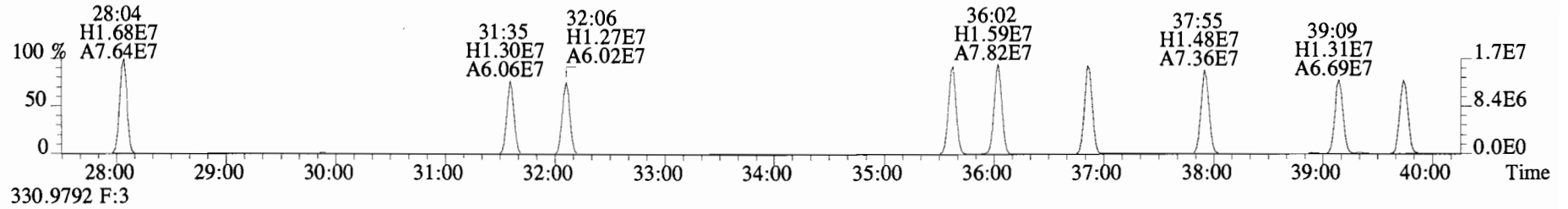
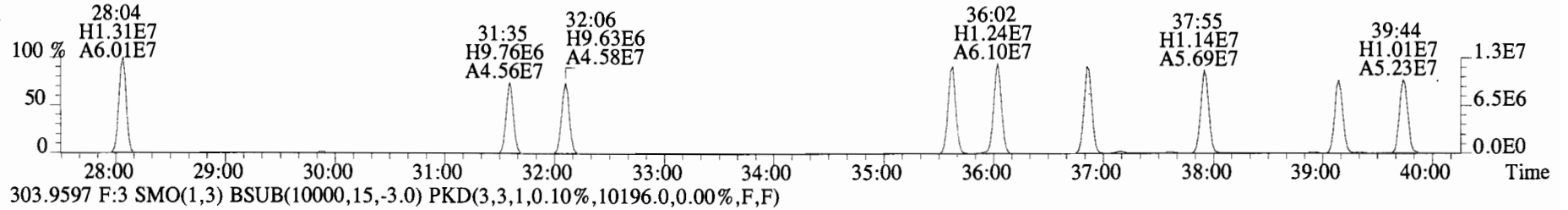
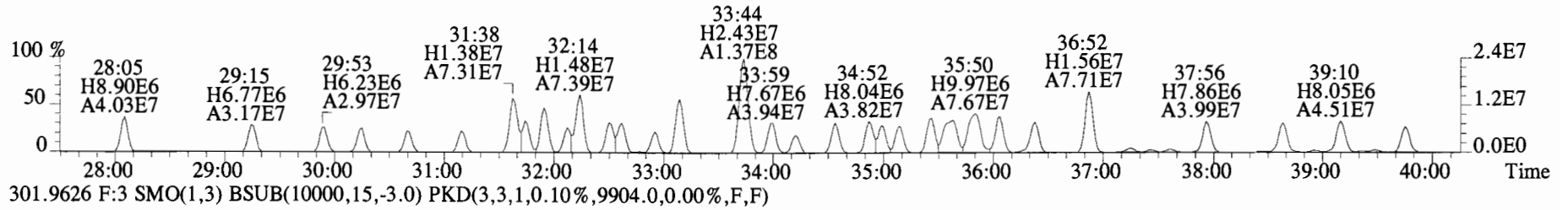
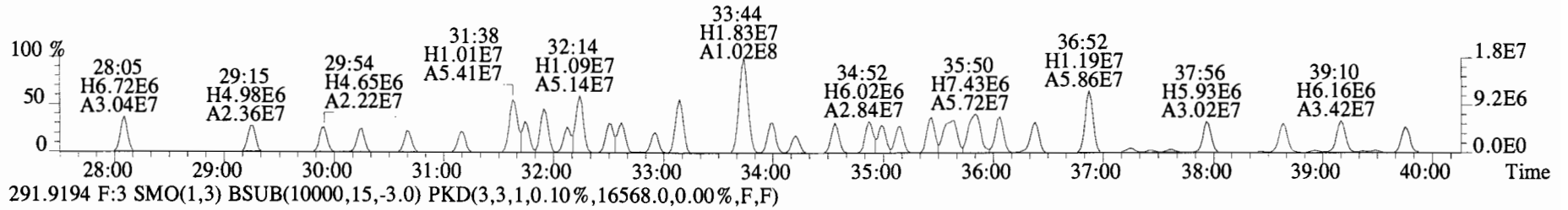
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
268.0016 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,61836.0,0.00%,F,F)



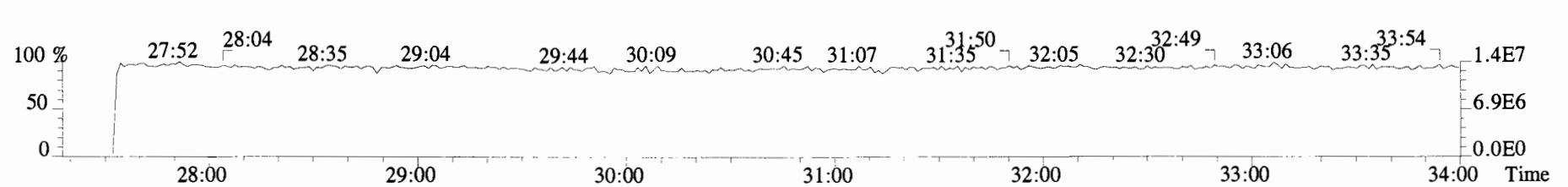
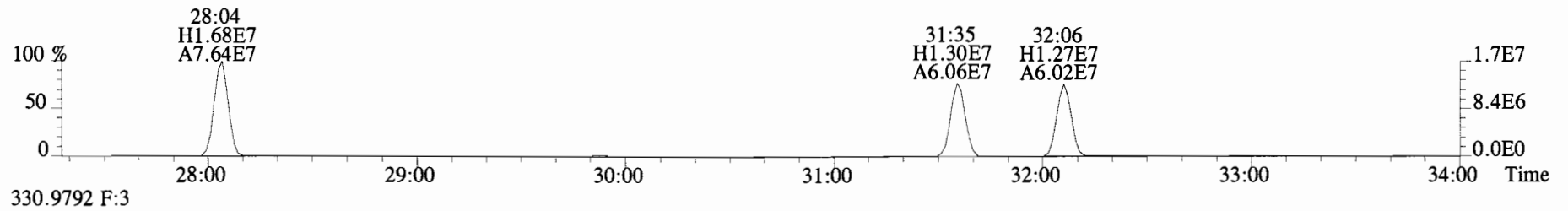
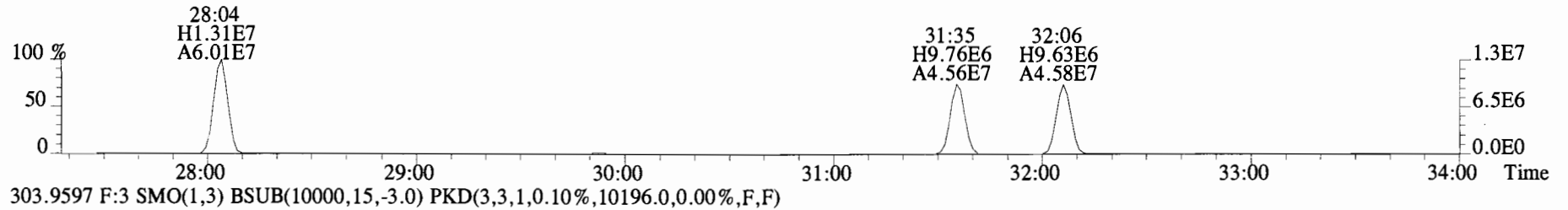
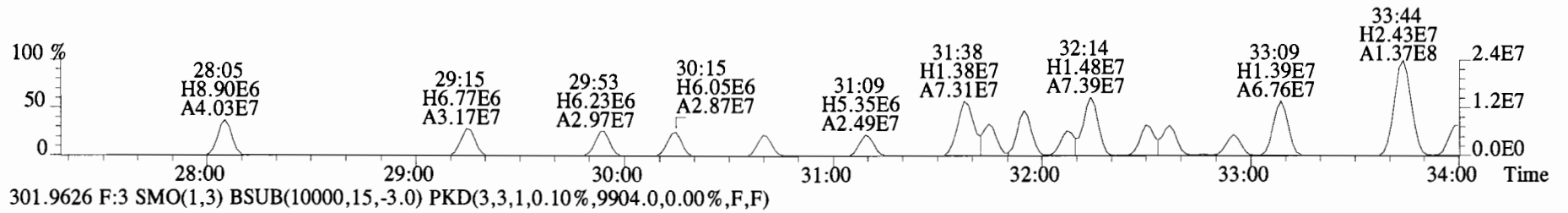
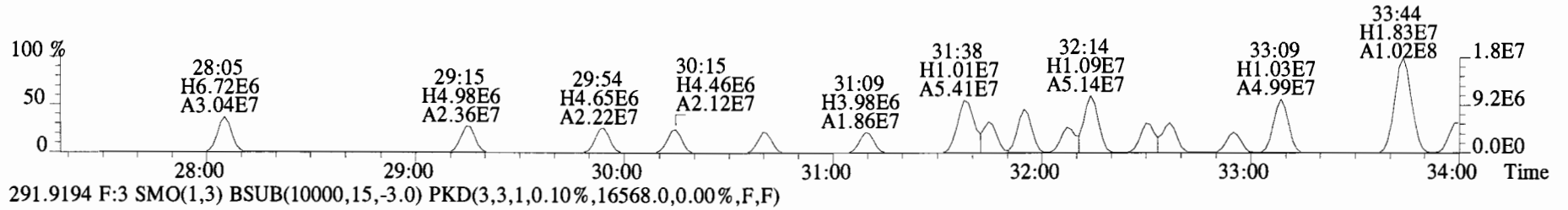
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
268.0016 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,61836.0,0.00%,F,F)



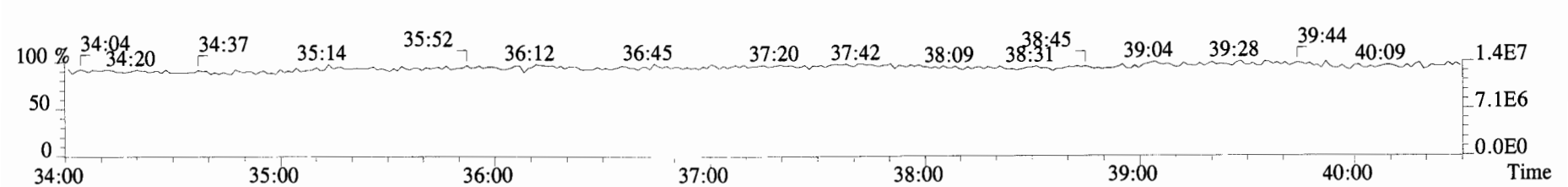
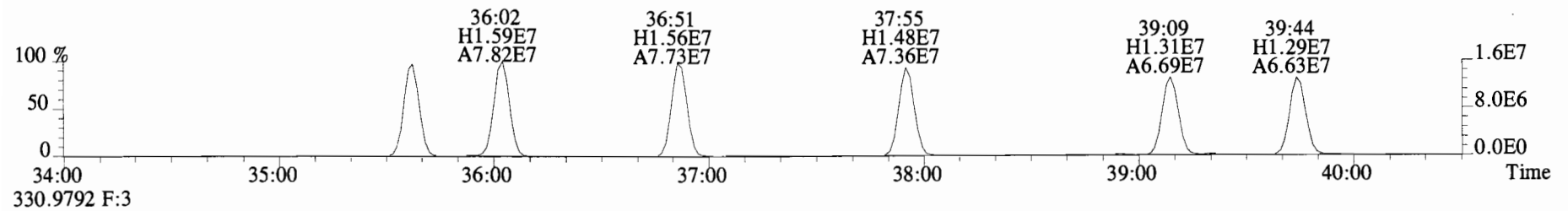
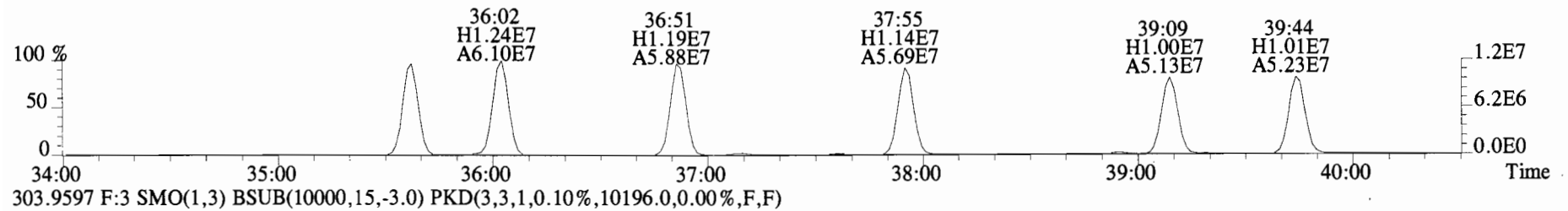
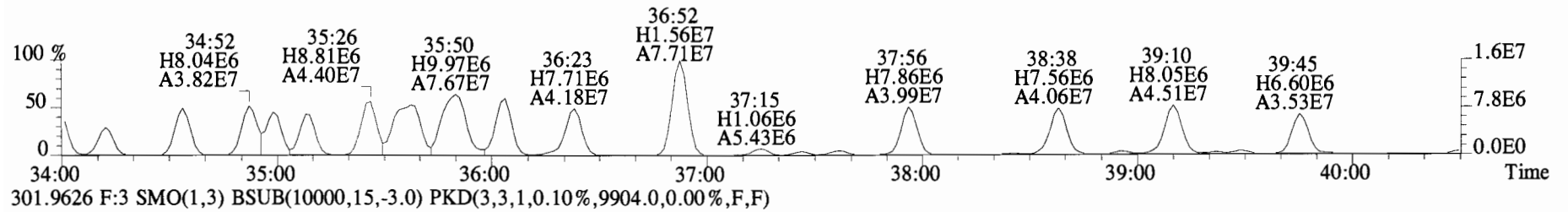
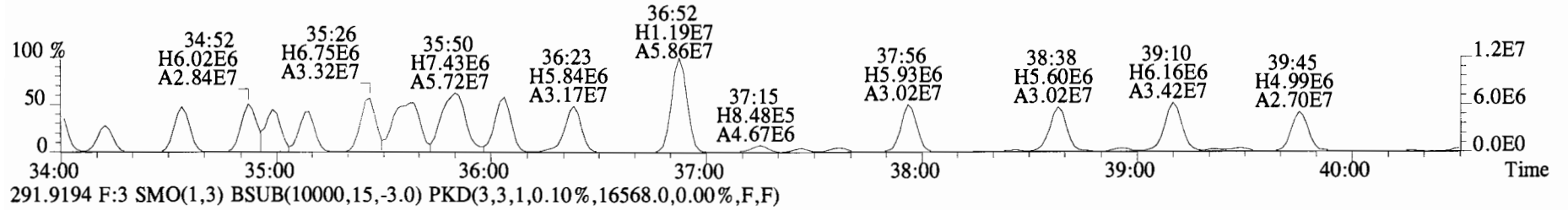
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6524.0,0.00%,F,F)



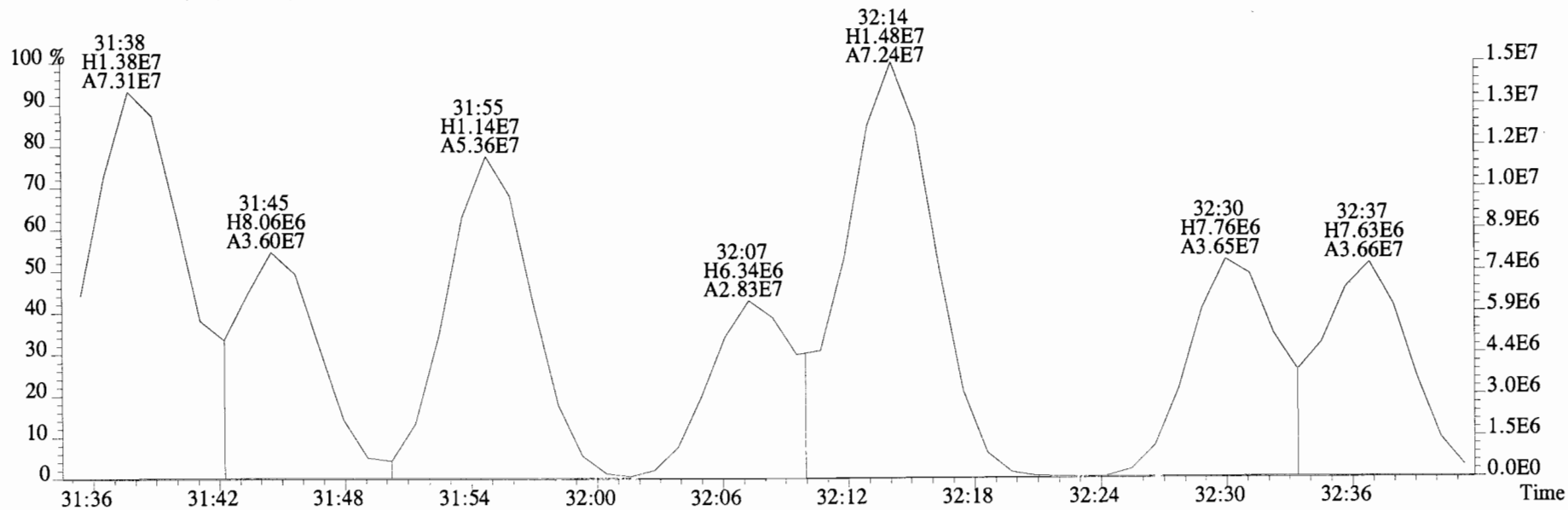
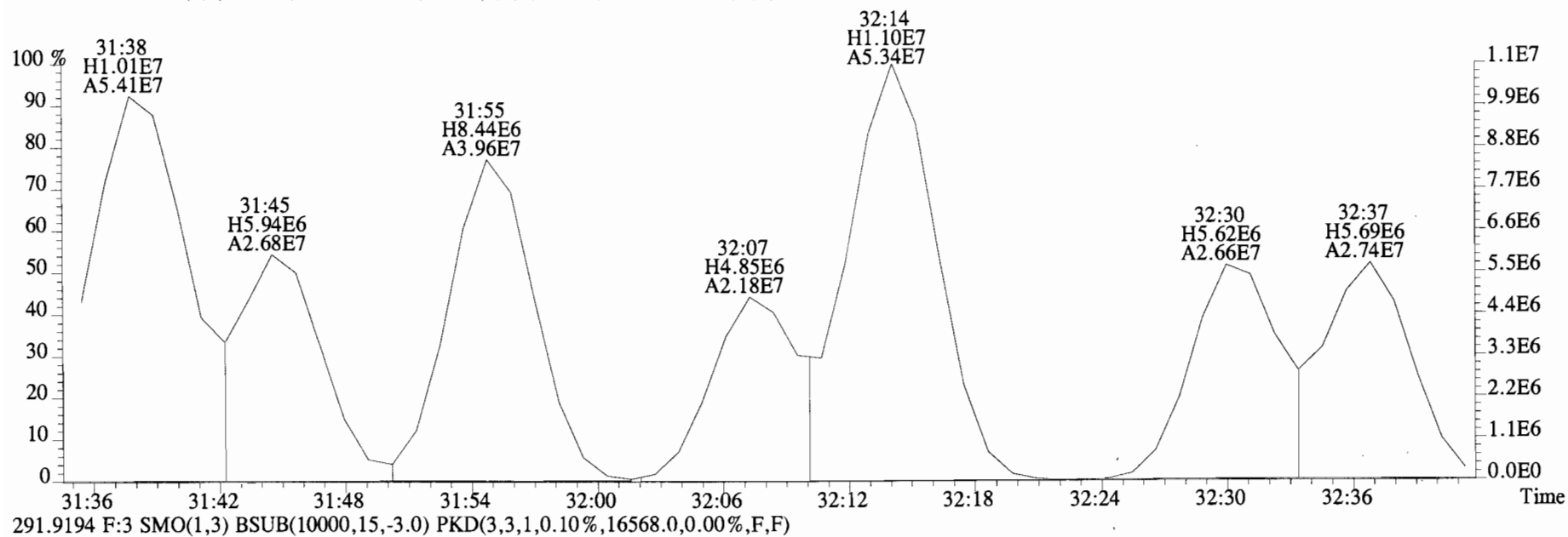
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6524.0,0.00%,F,F)



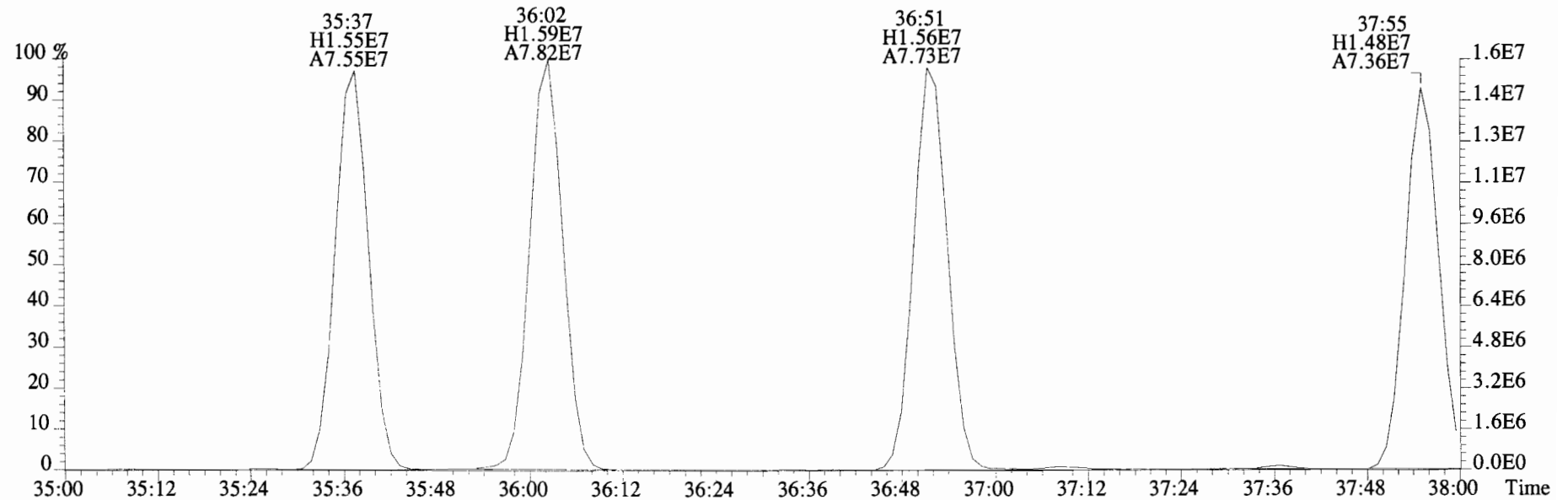
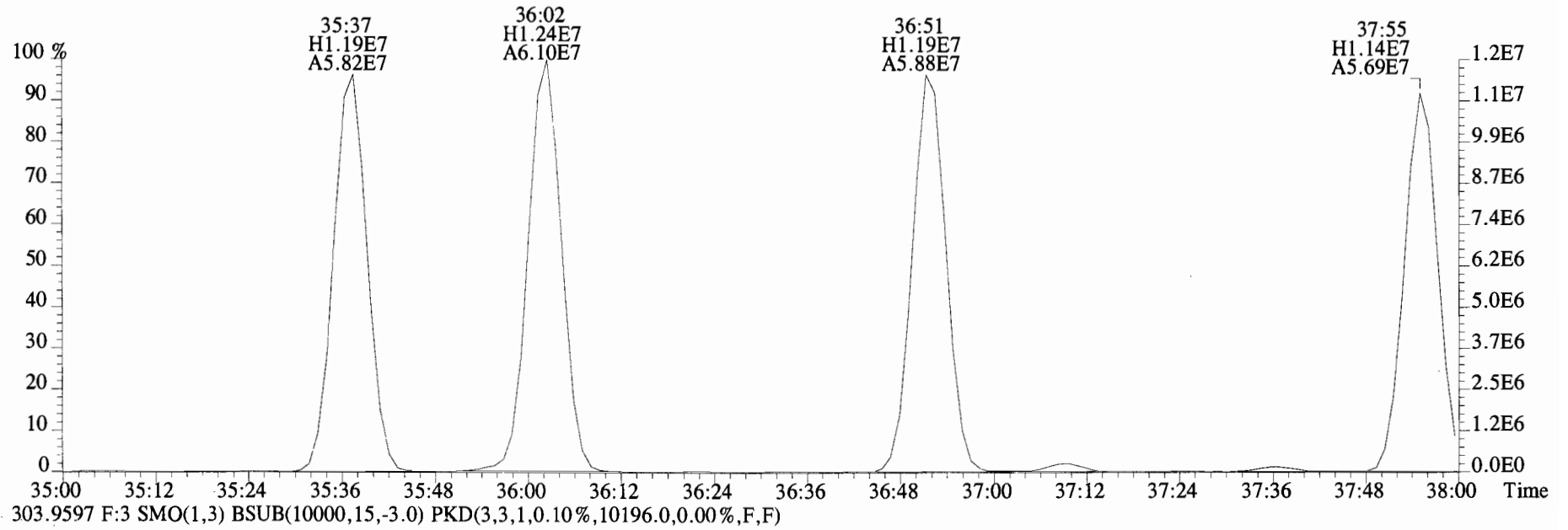
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6524.0,0.00%,F,F)



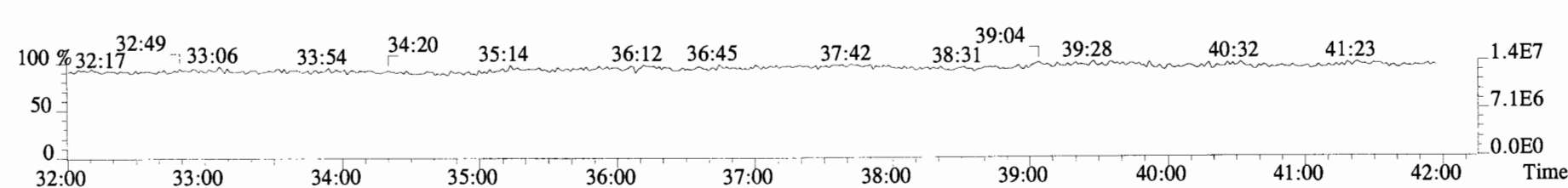
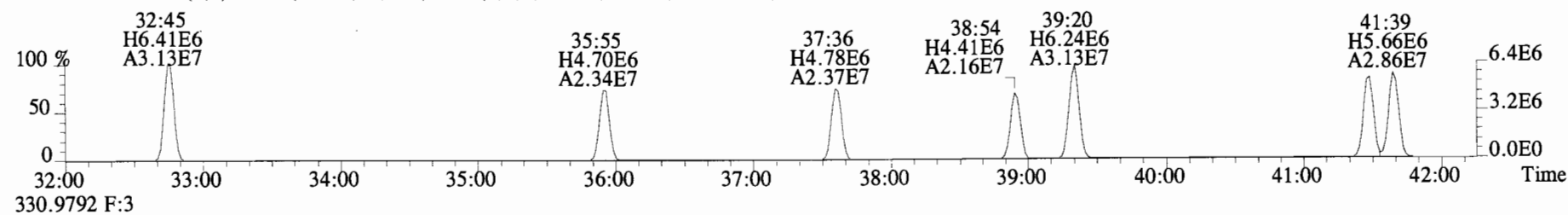
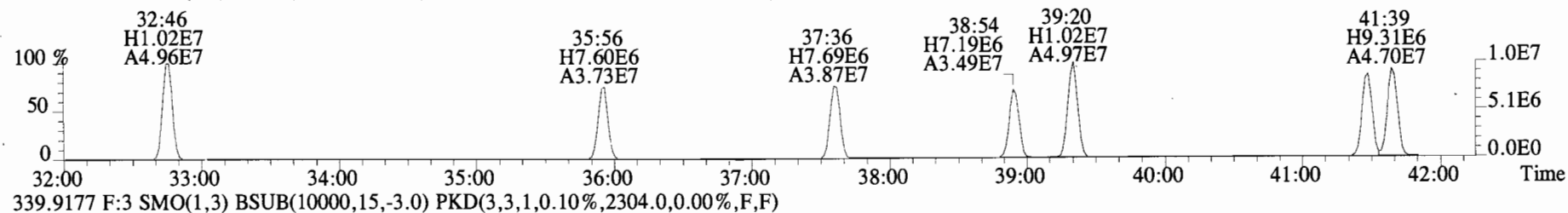
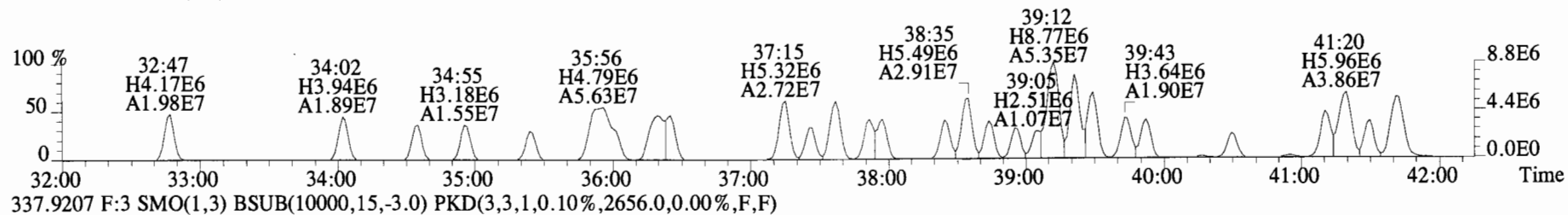
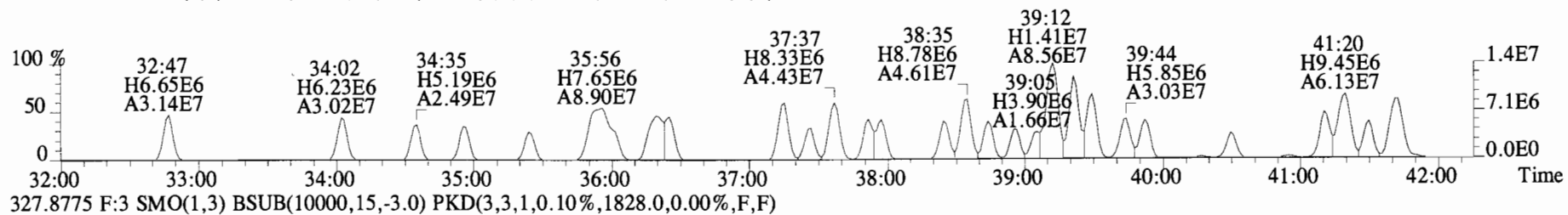
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6524.0,0.00%,F,F)



File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
301.9626 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9904.0,0.00%,F,F)

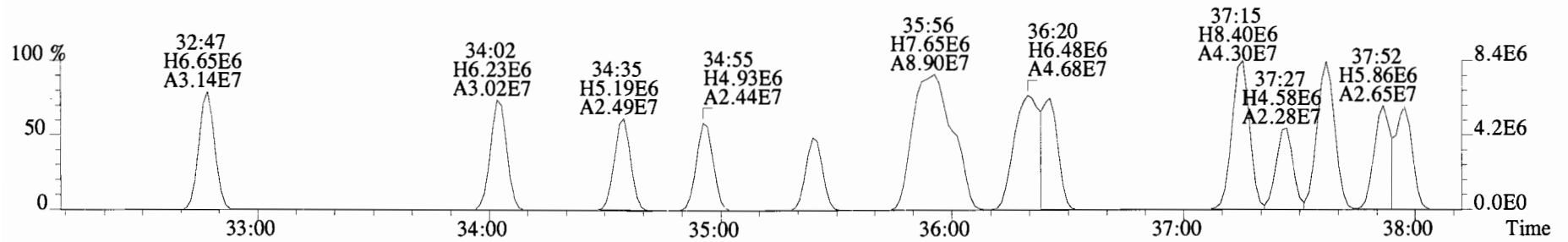


File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)

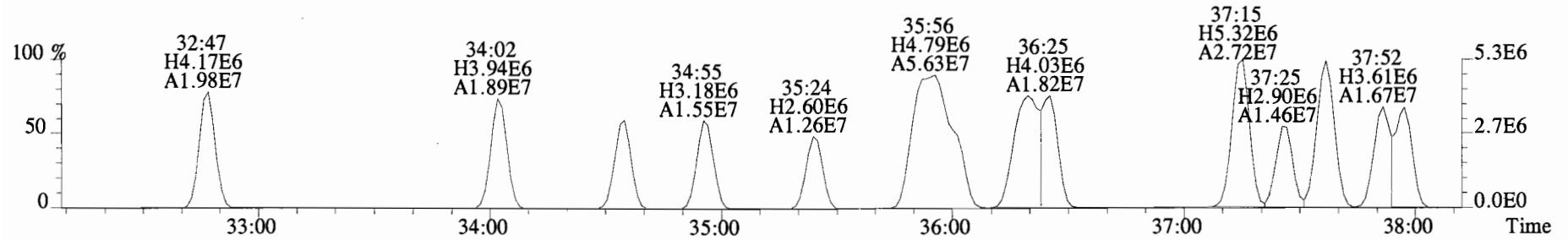




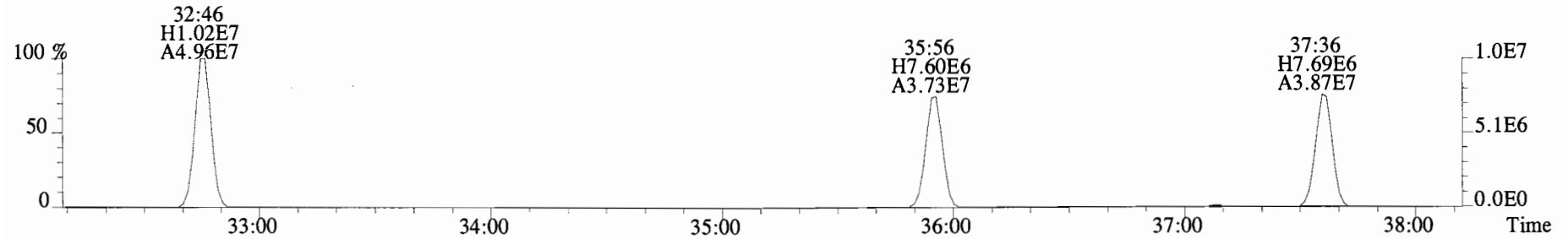
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



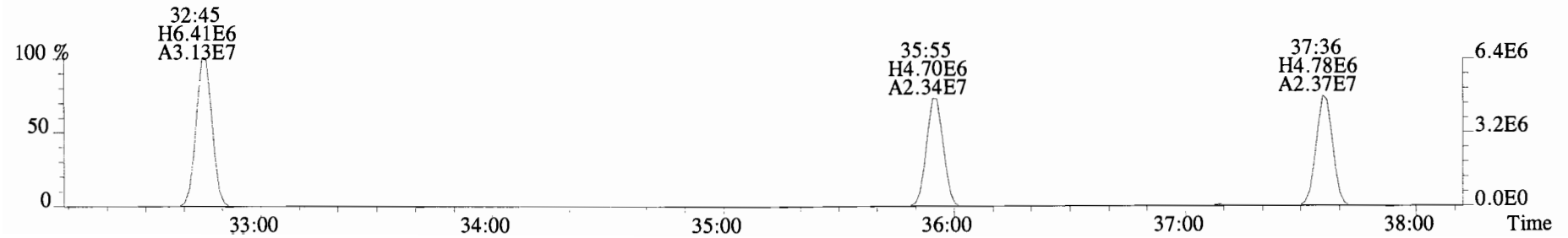
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



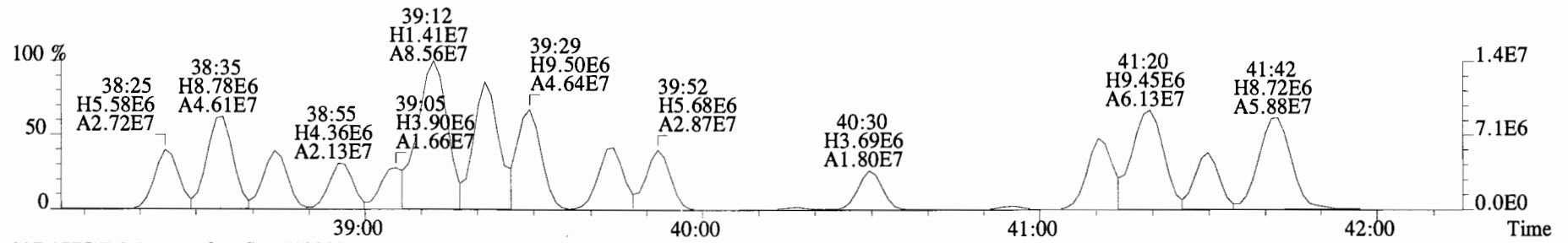
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2656.0,0.00%,F,F)



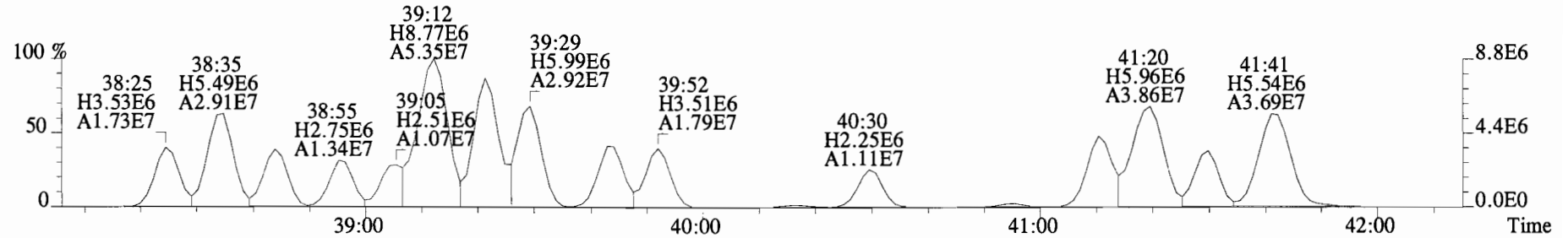
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2304.0,0.00%,F,F)



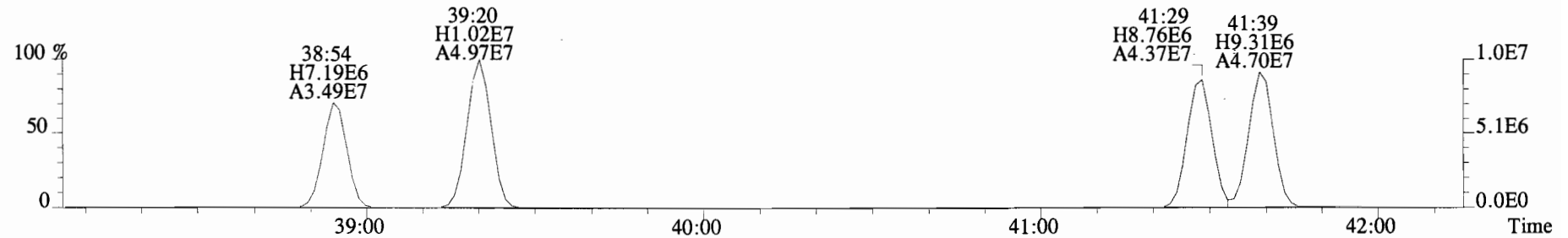
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



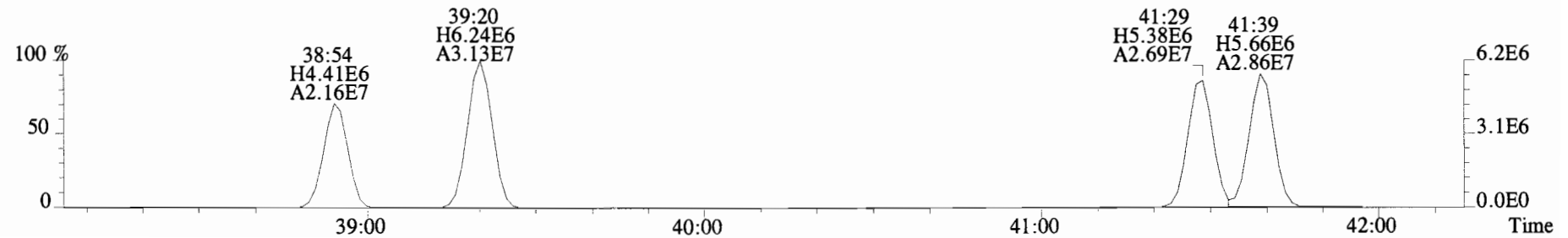
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



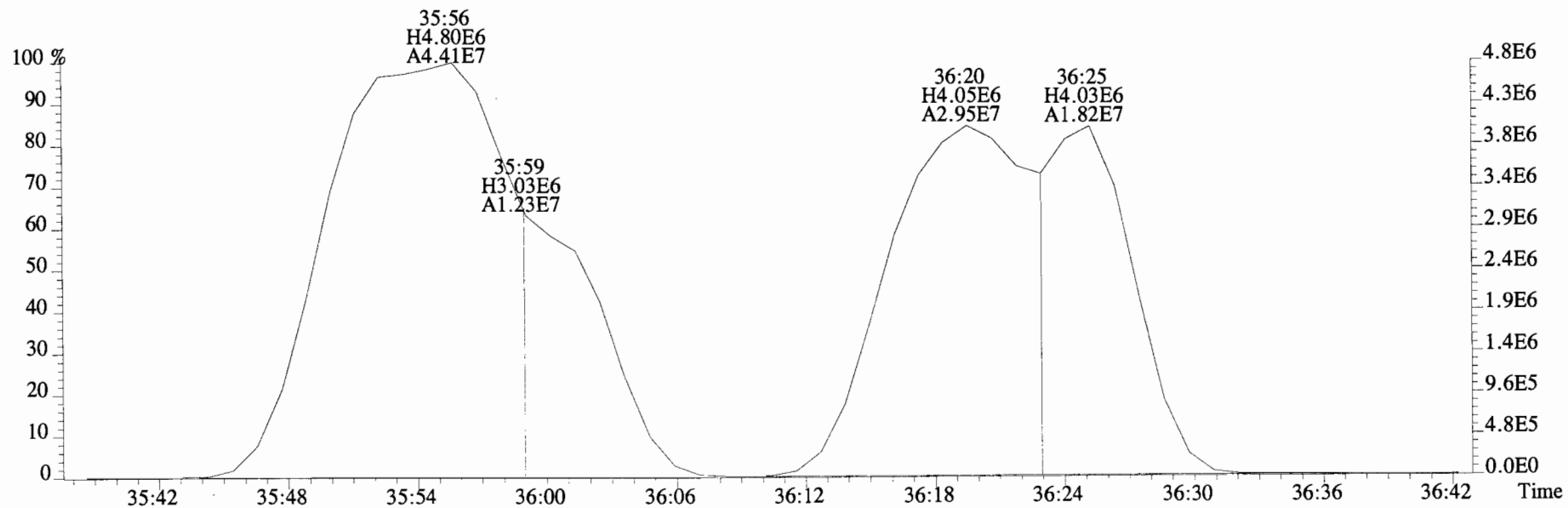
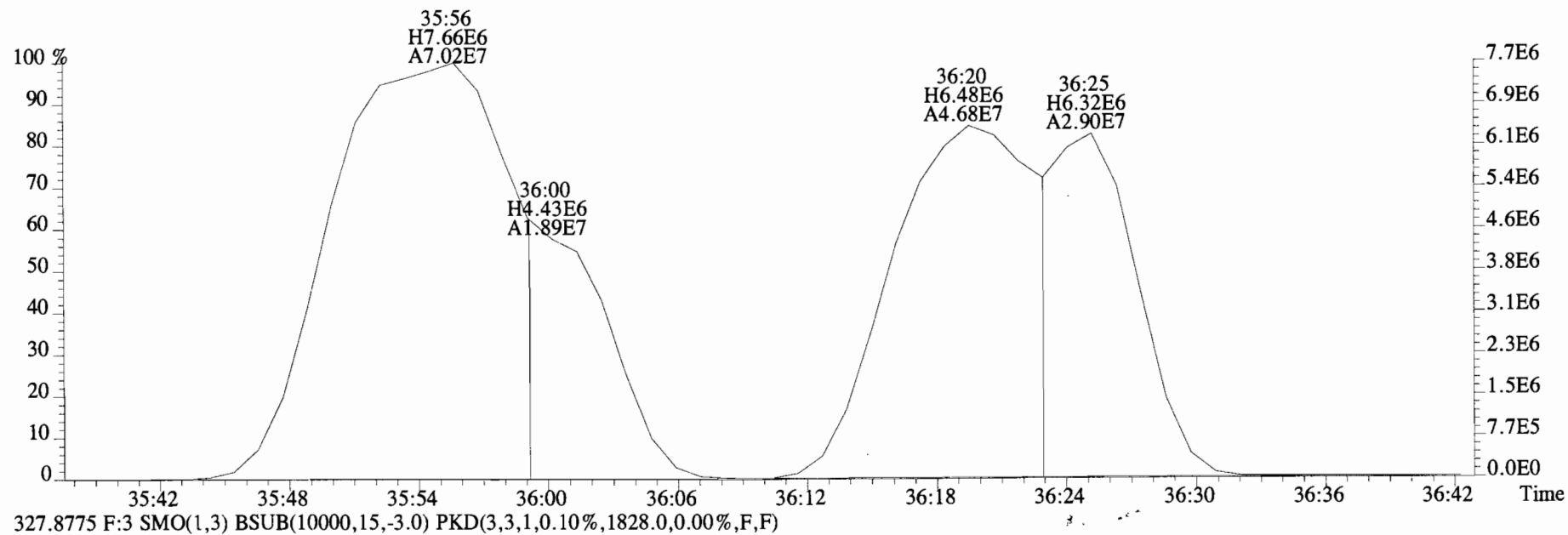
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2656.0,0.00%,F,F)



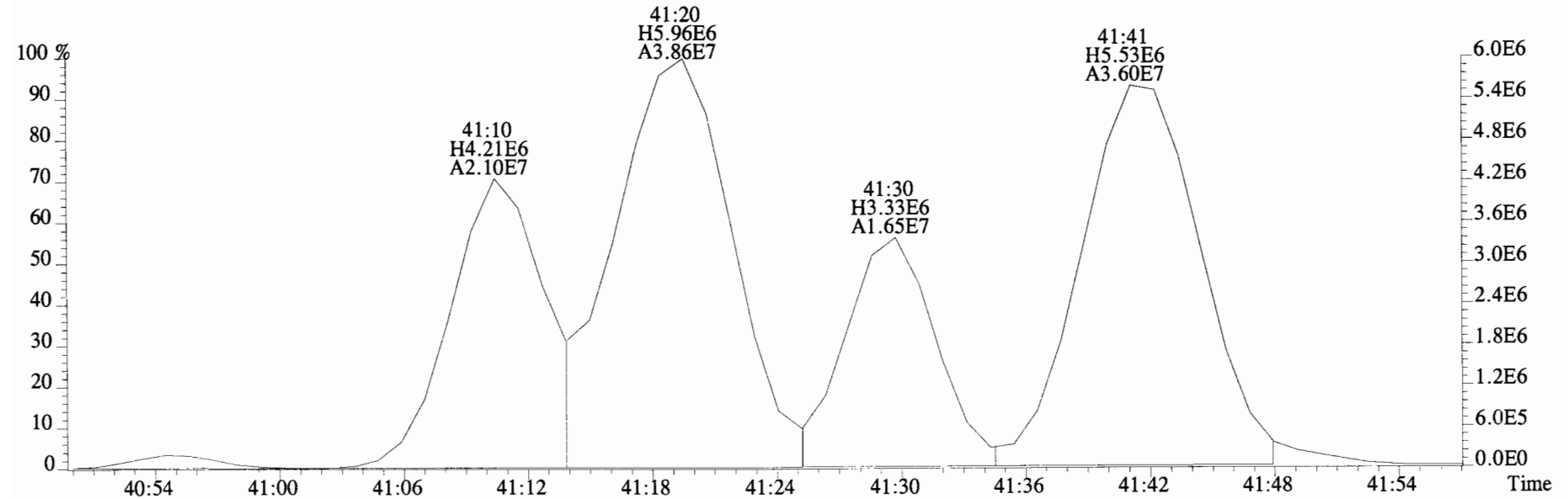
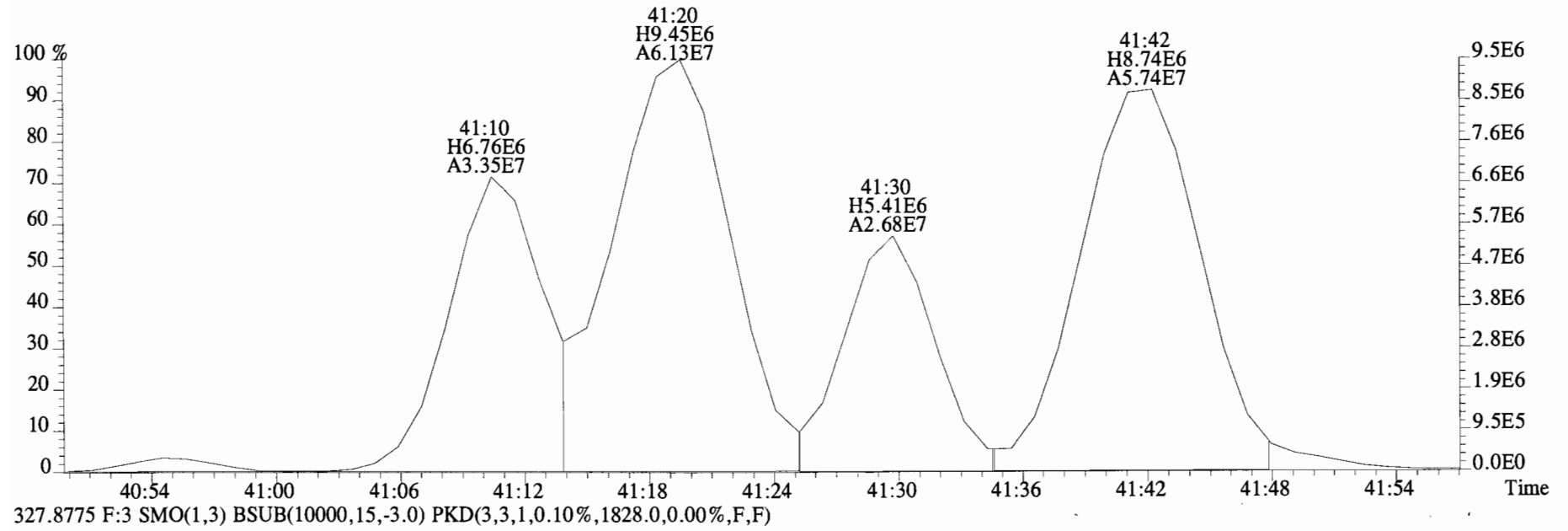
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2304.0,0.00%,F,F)



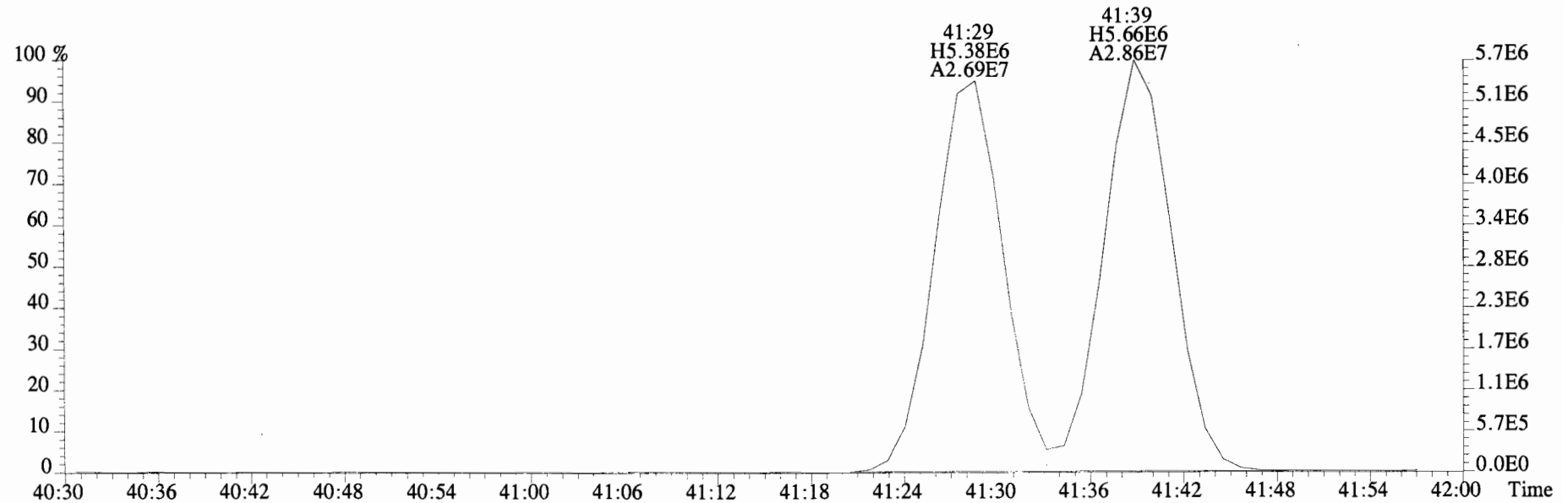
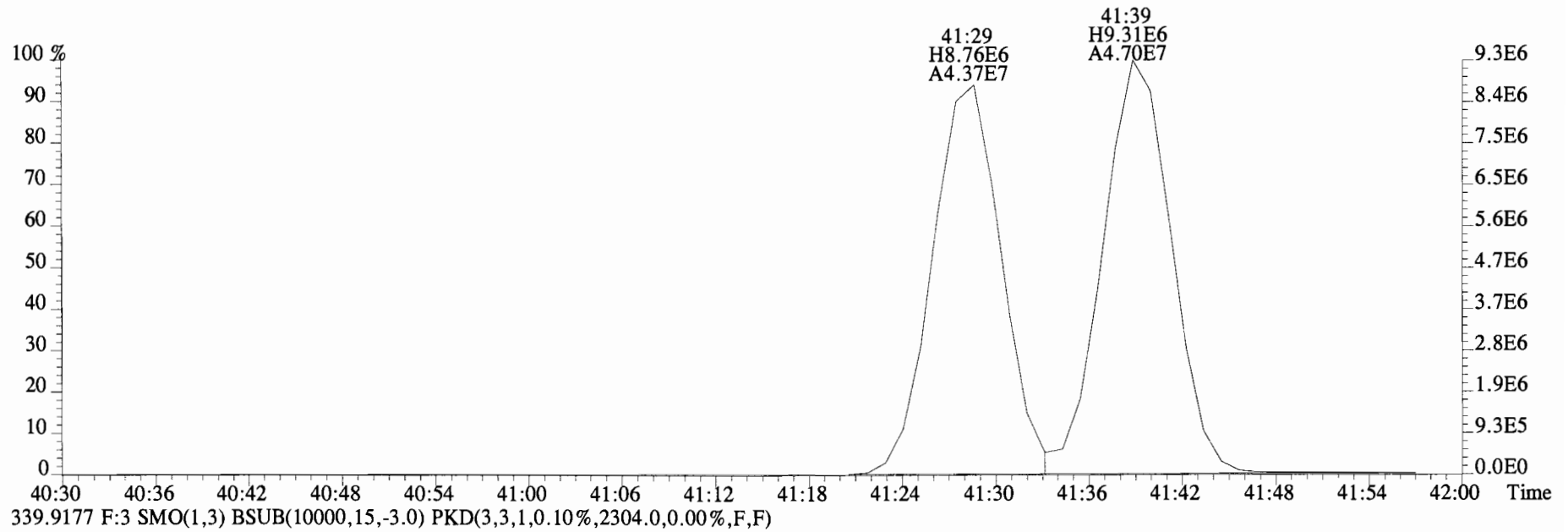
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



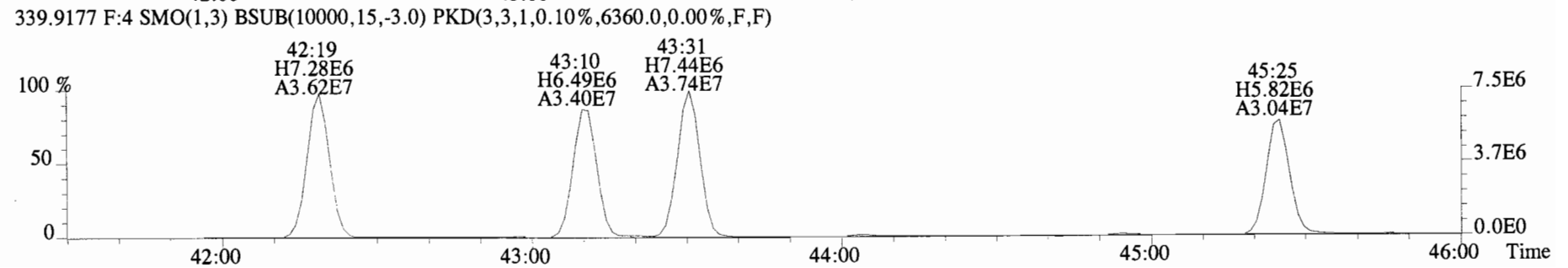
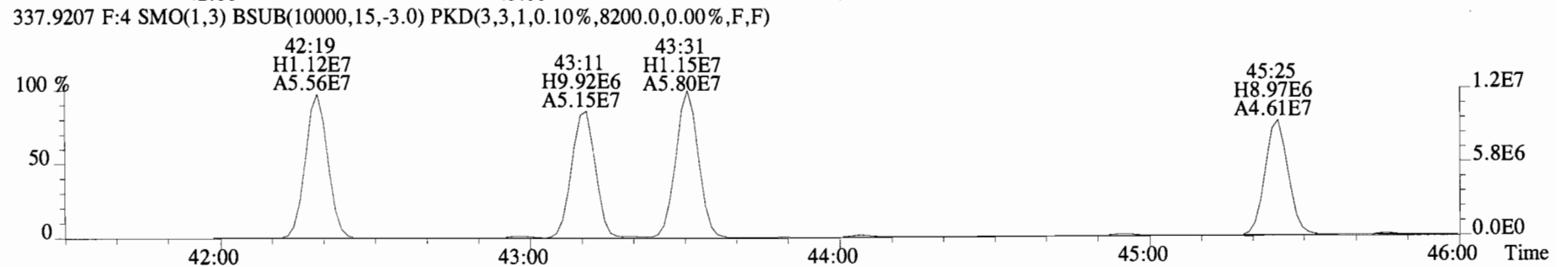
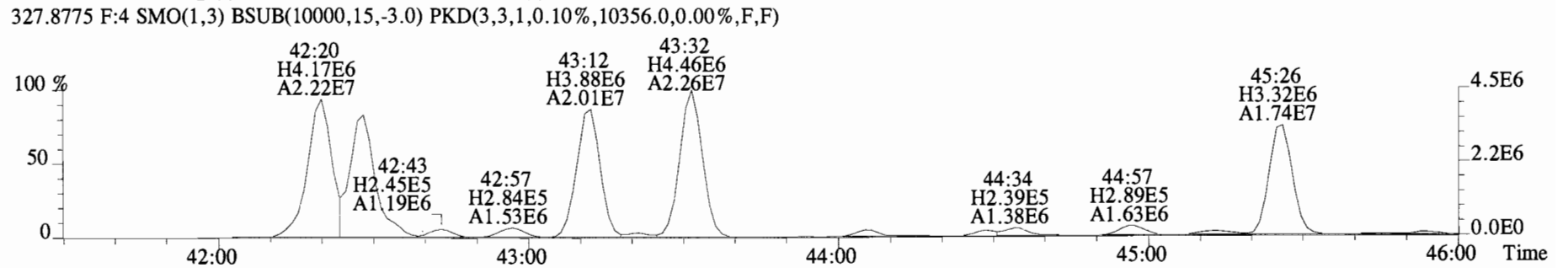
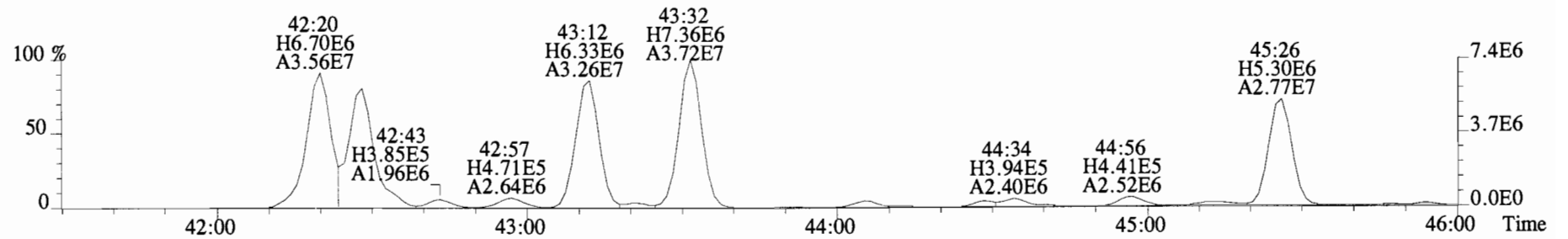
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



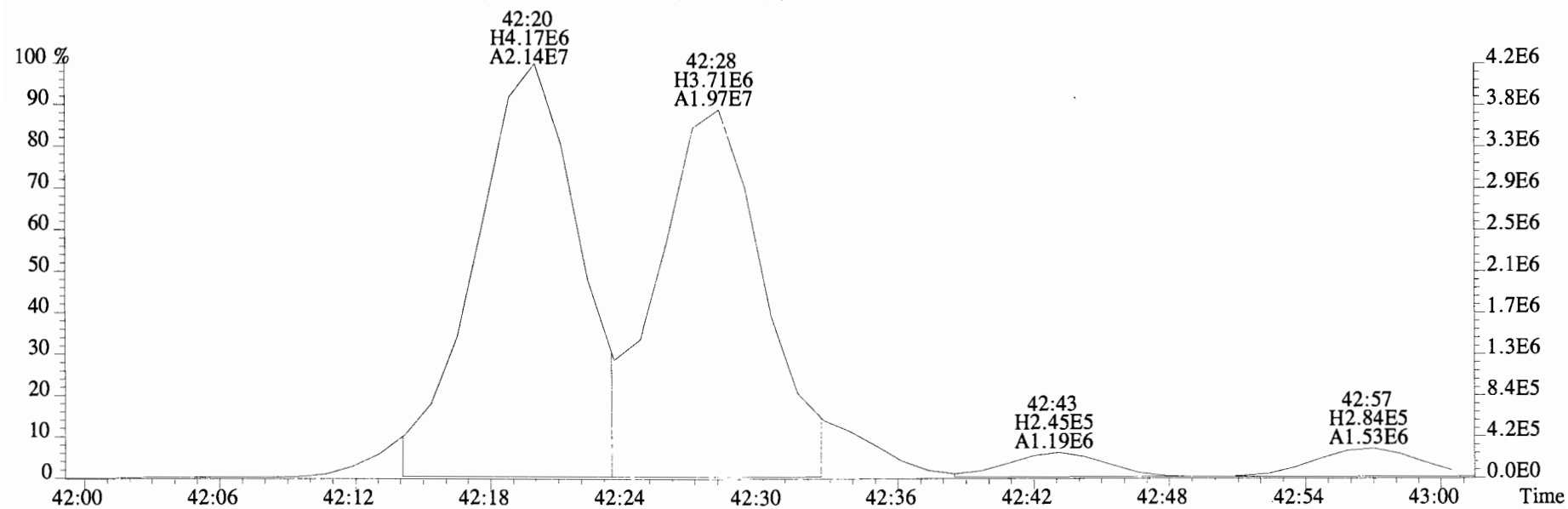
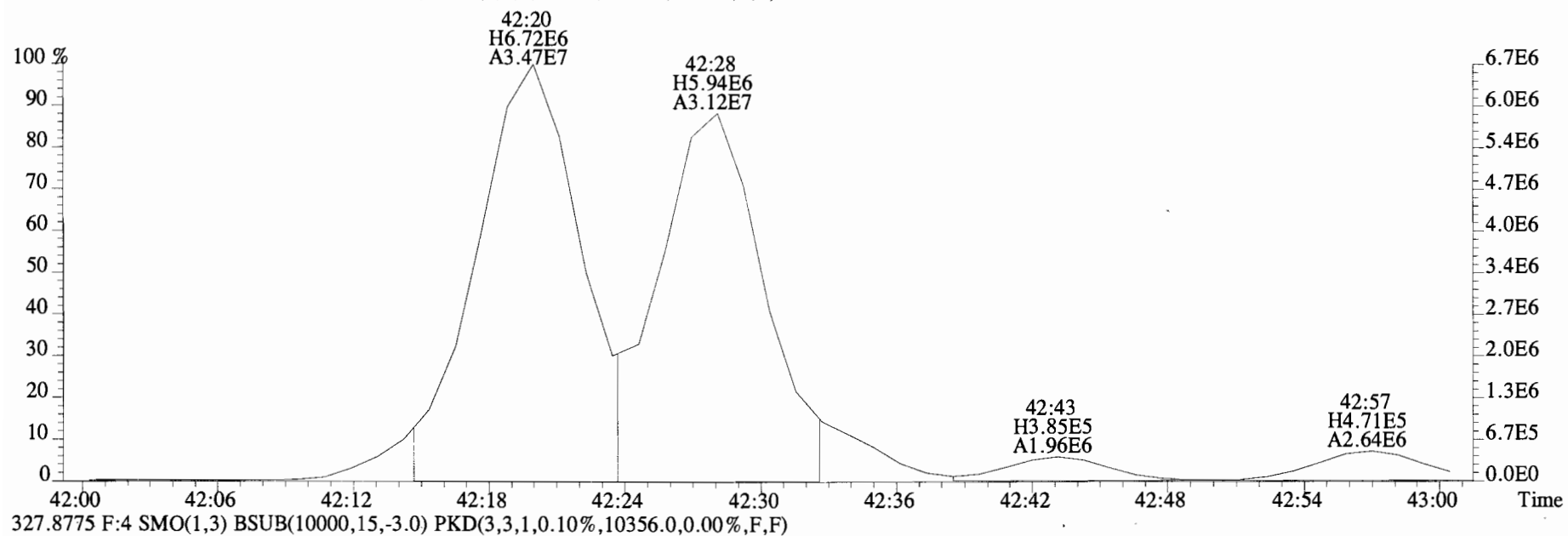
File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2656.0,0.00%,F,F)



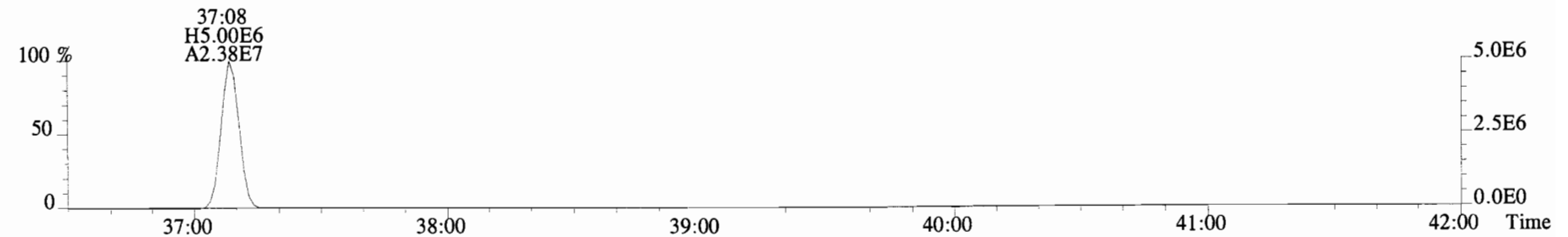
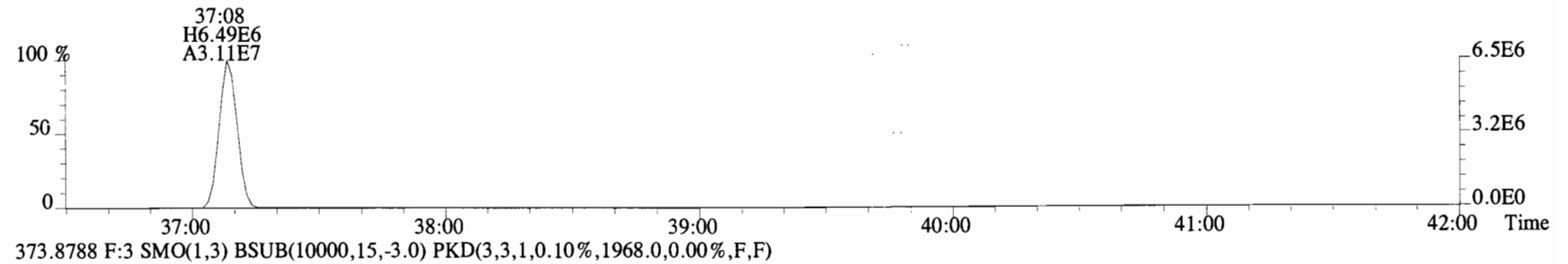
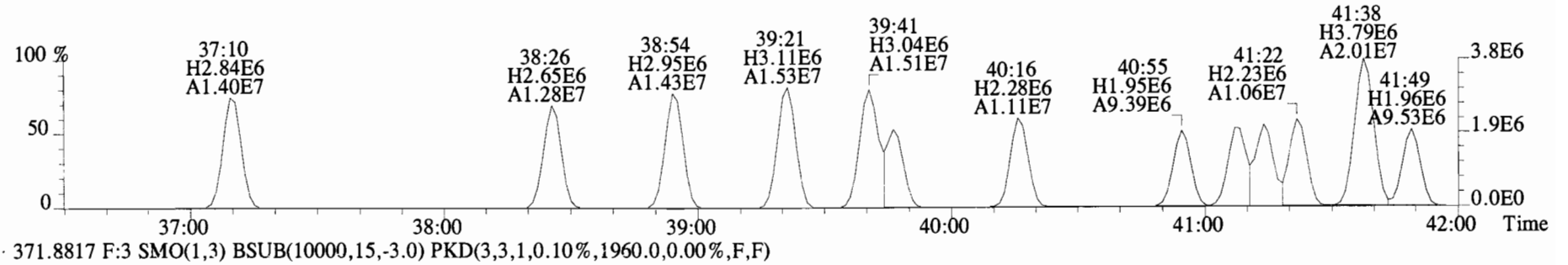
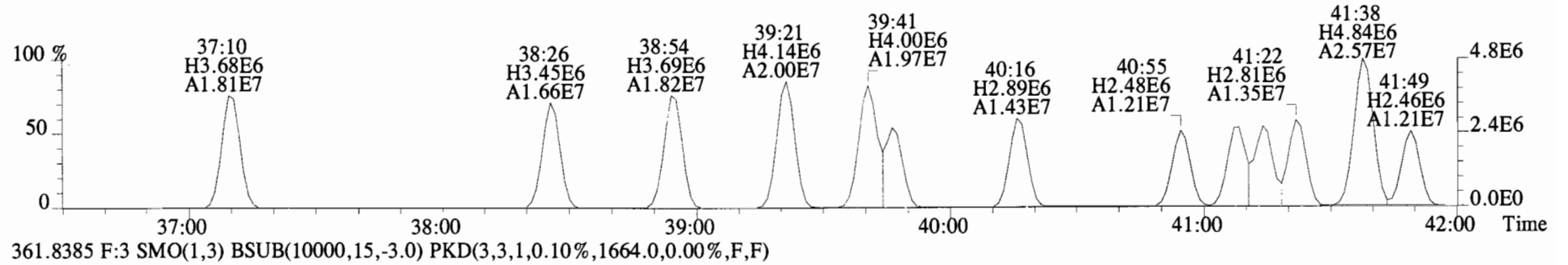
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9916.0,0.00%,F,F)



File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
 325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9916.0,0.00%,F,F)

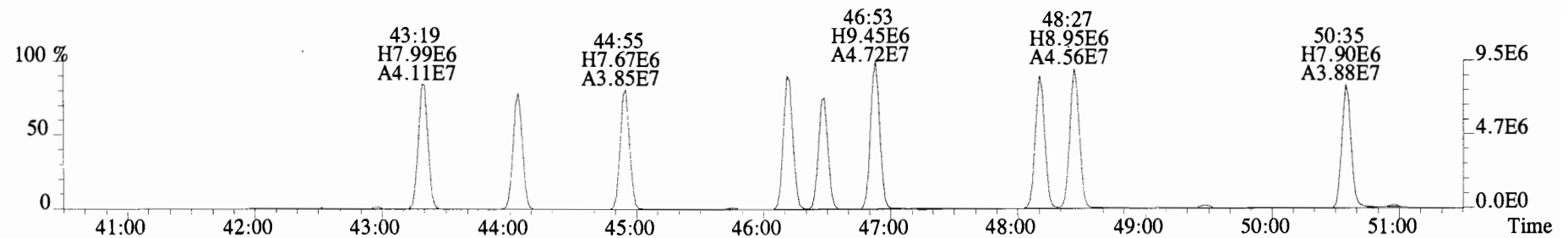
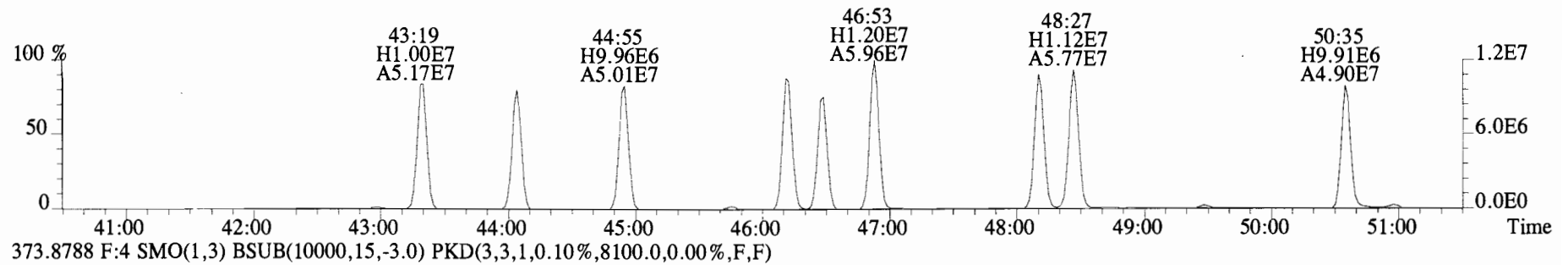
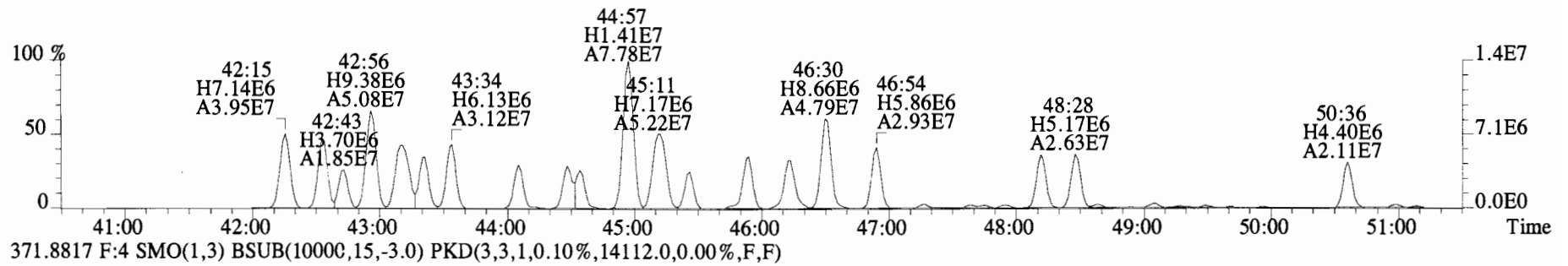
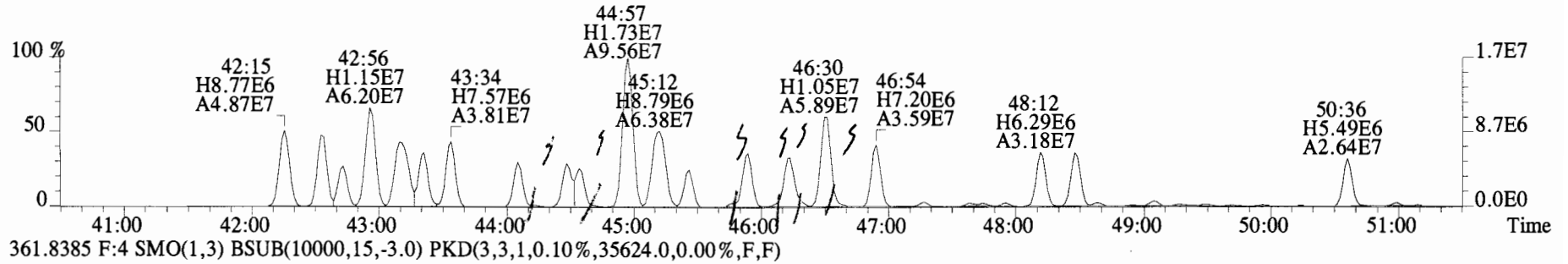


File:141002E1 #1-762 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1728.0,0.00%,F,F)

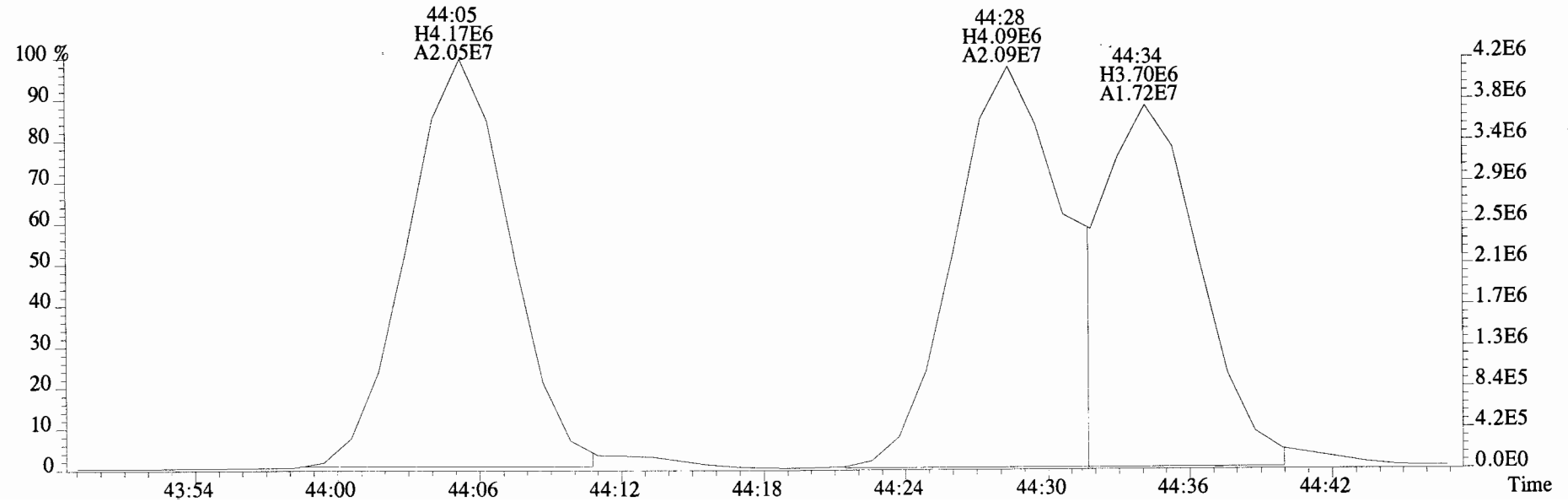
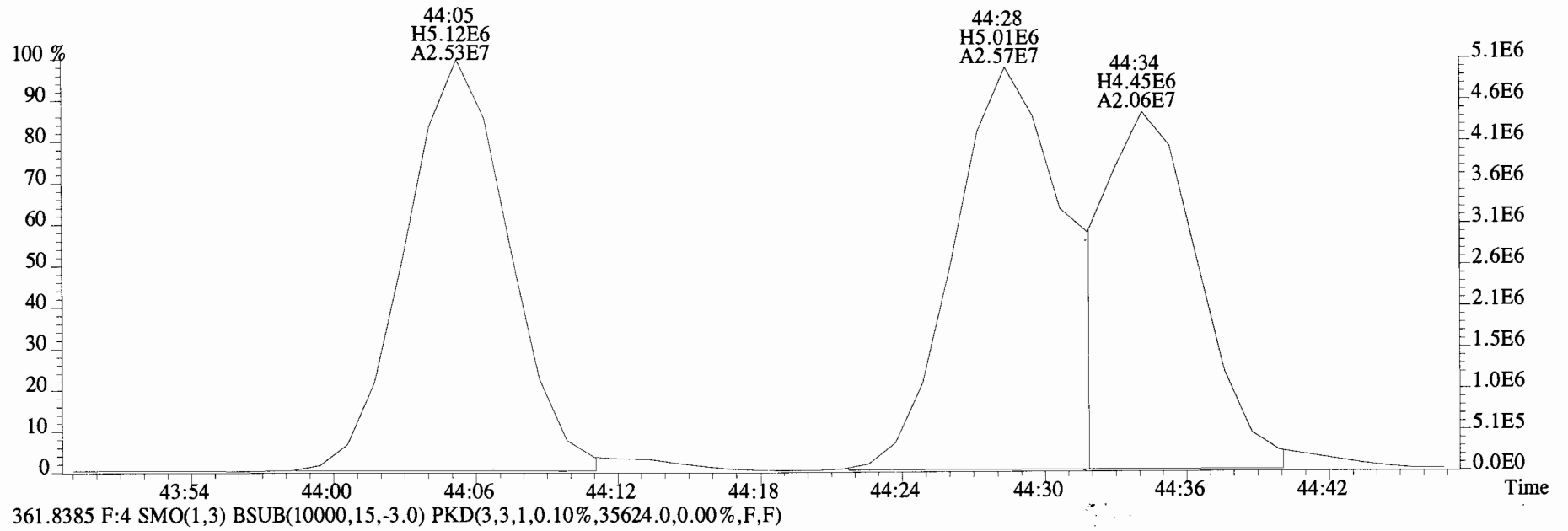




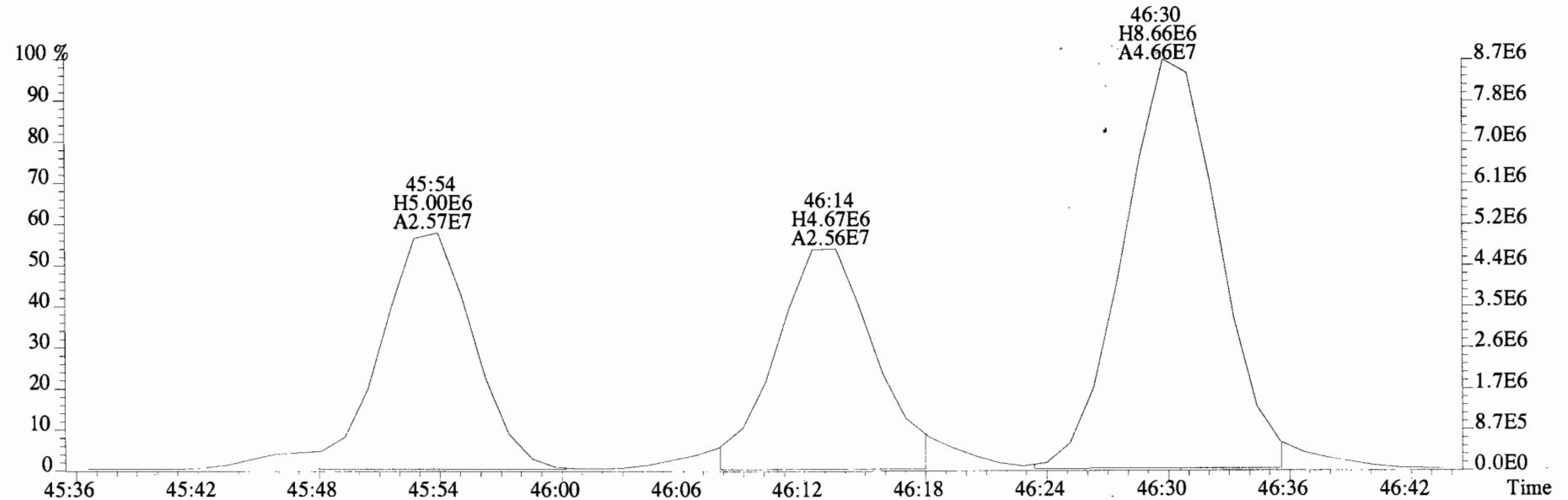
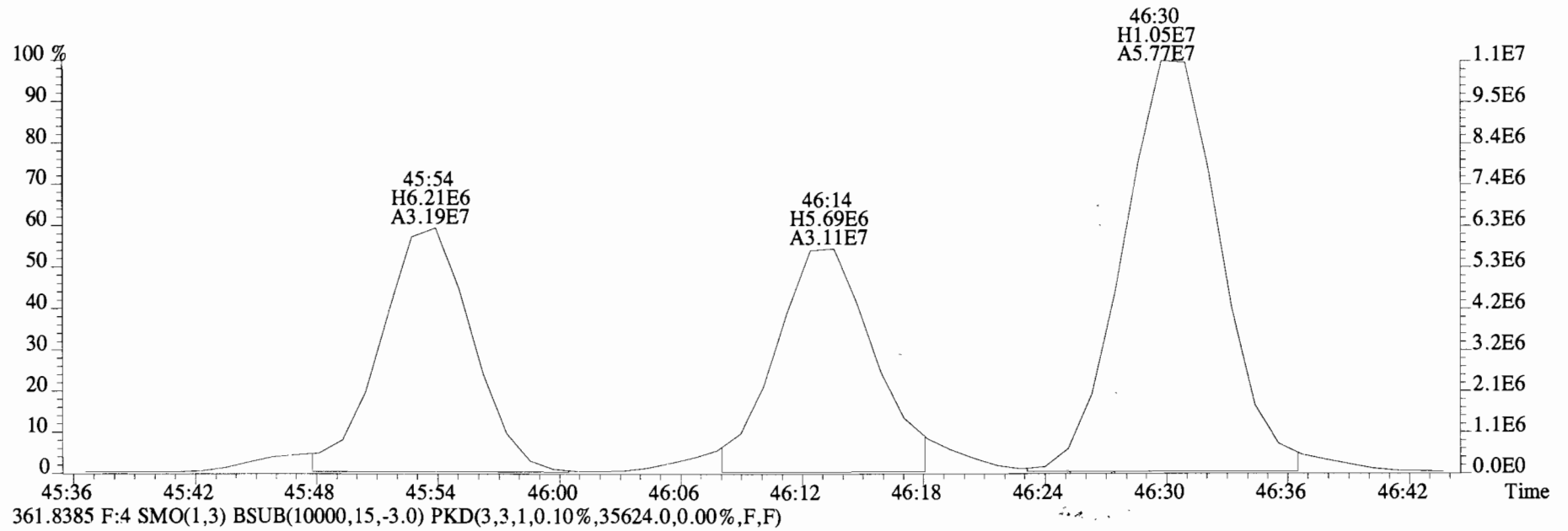
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31968.0,0.00%,F,F)



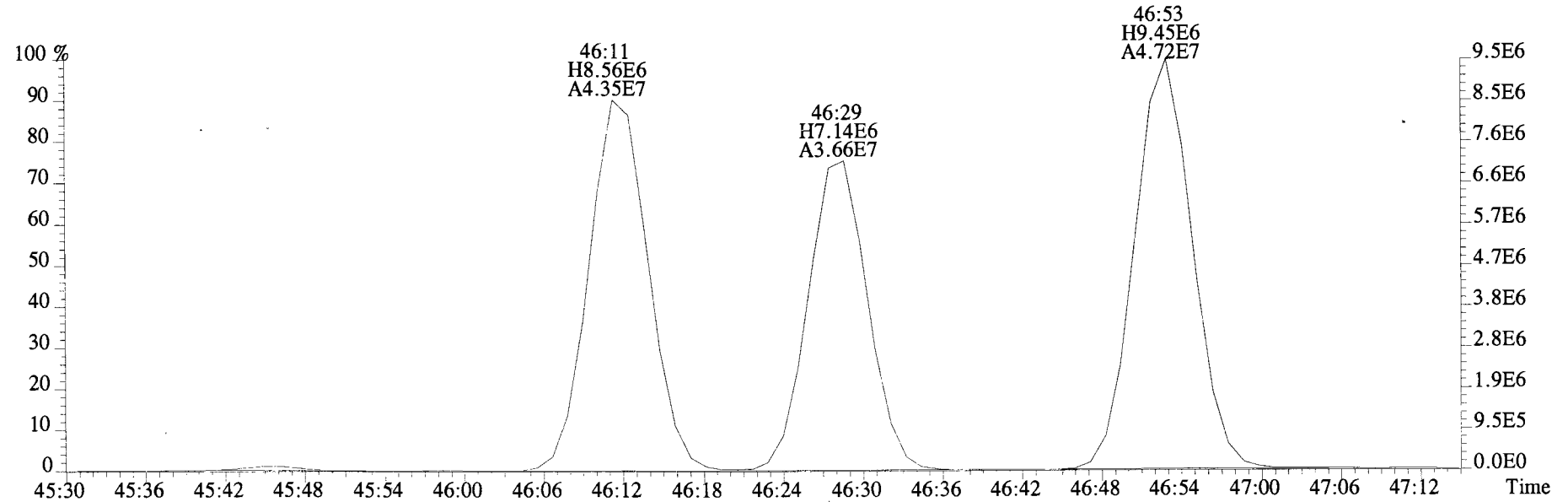
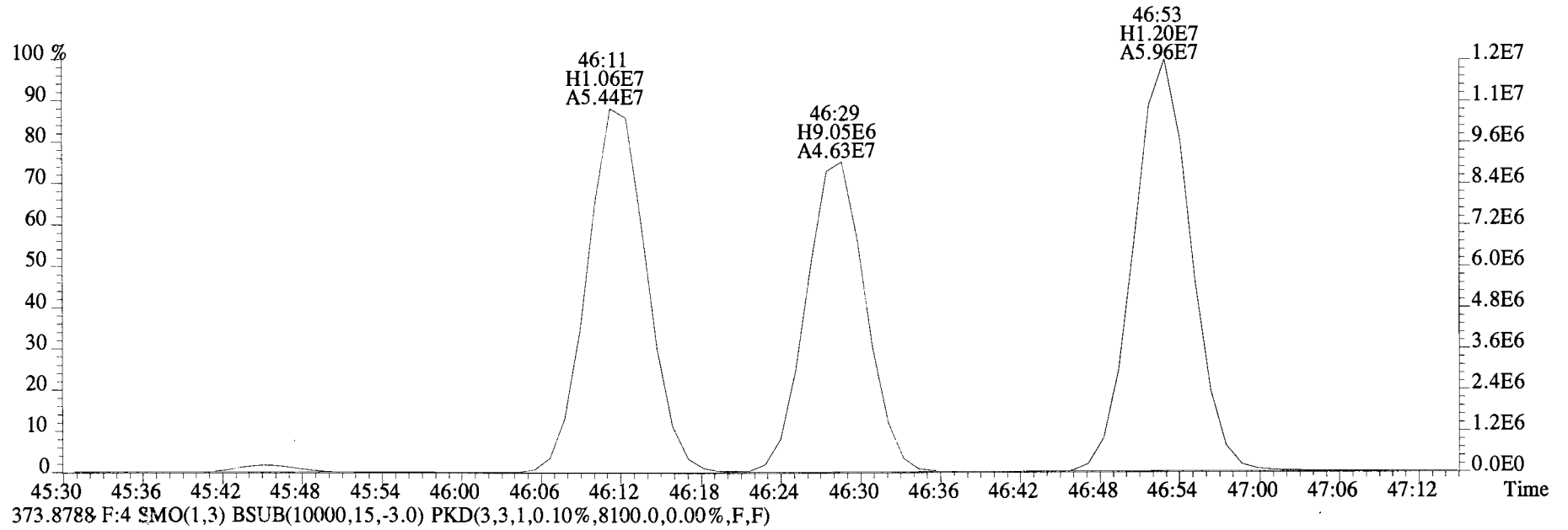
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31968.0,0.00%,F,F)



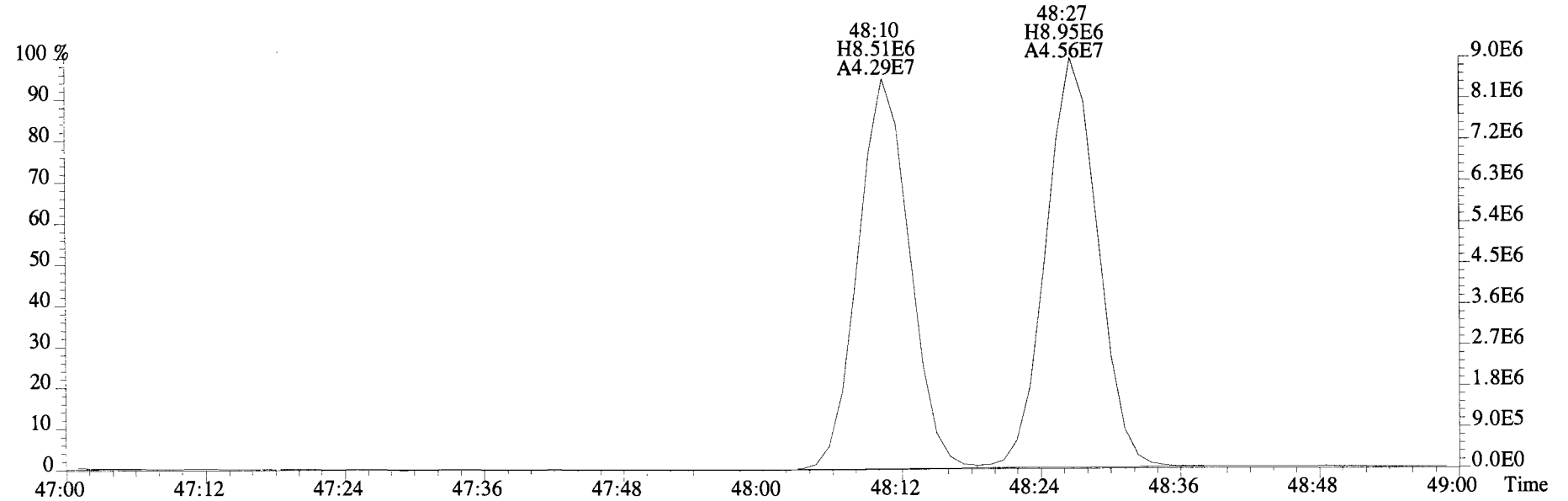
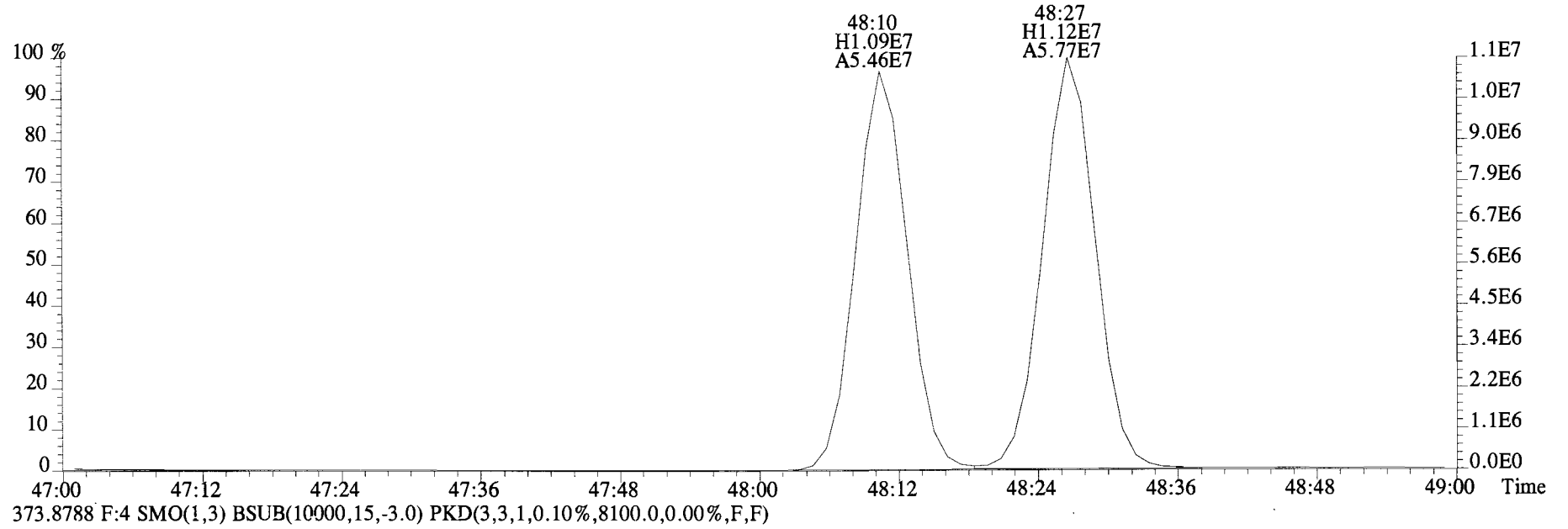
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31968.0,0.00%,F,F)



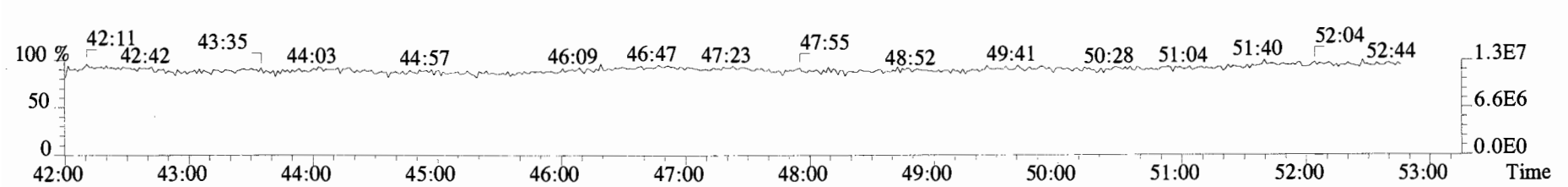
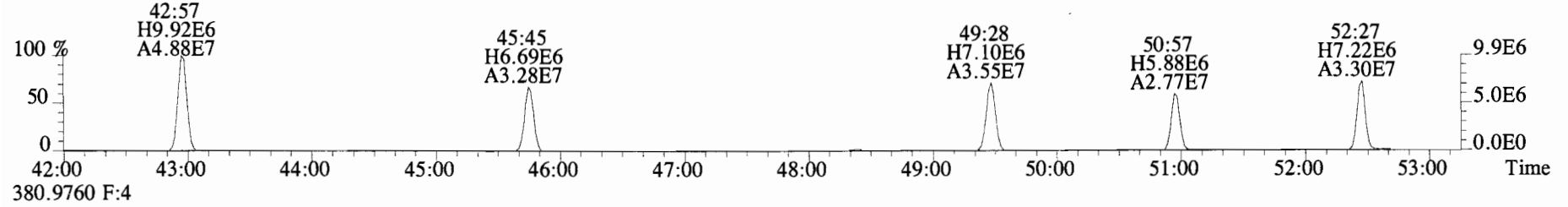
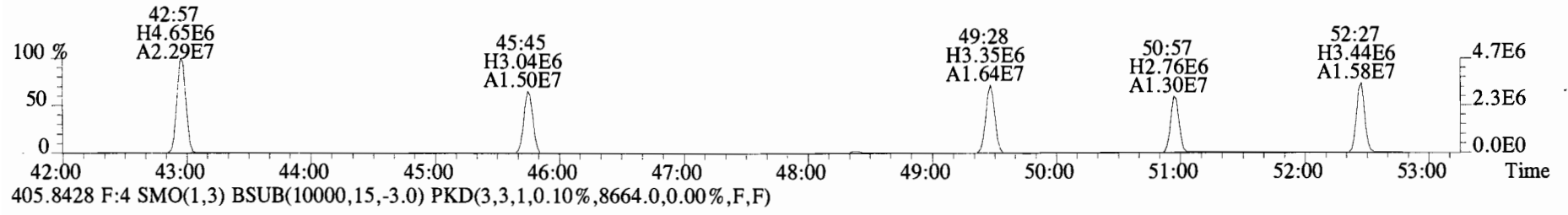
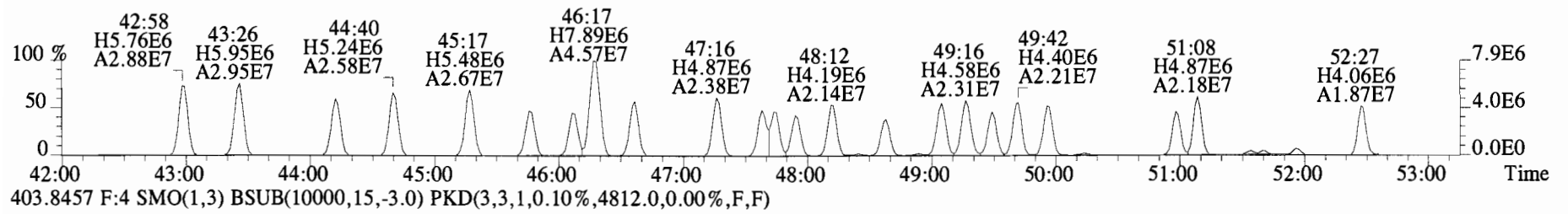
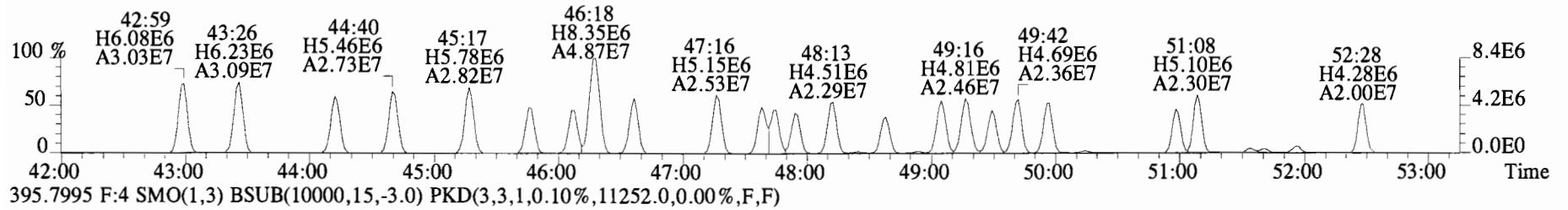
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14112.0,0.00%,F,F)



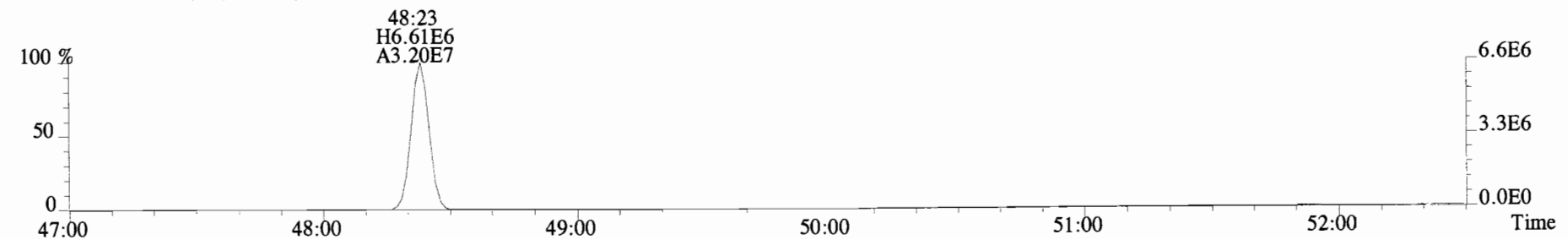
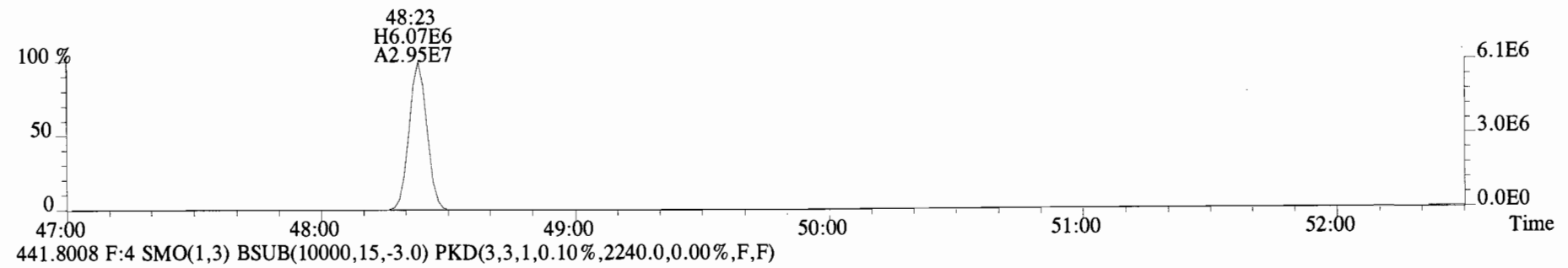
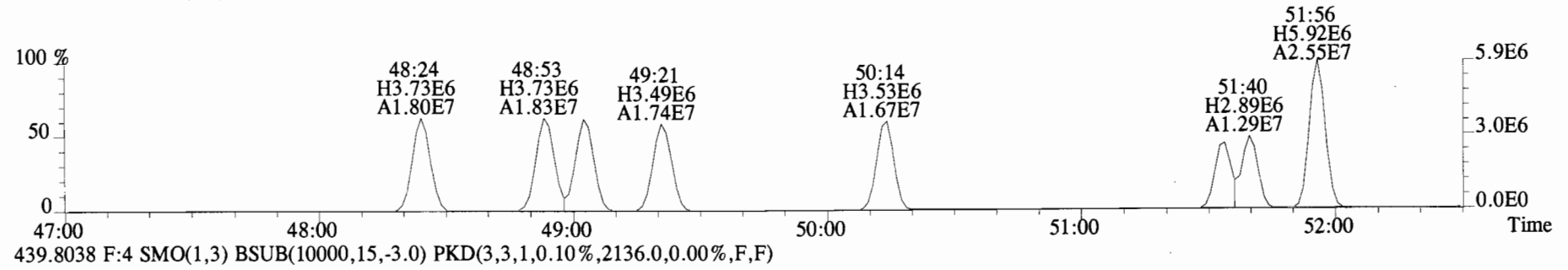
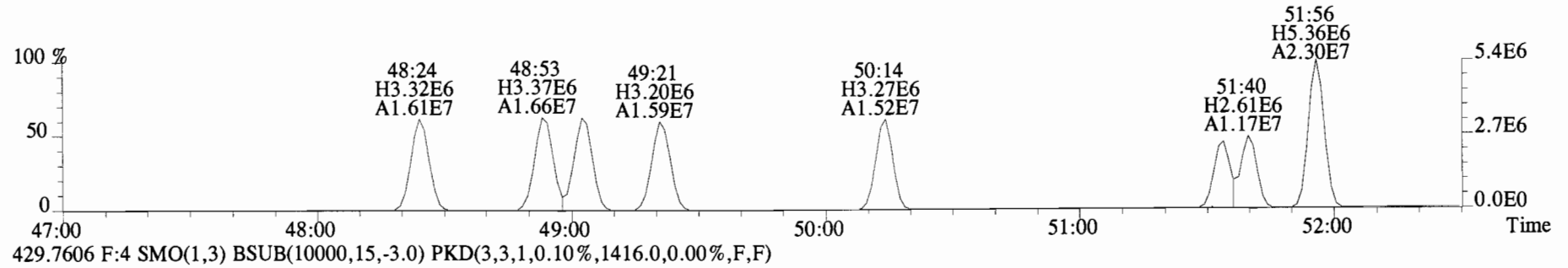
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14112.0,0.00%,F,F)



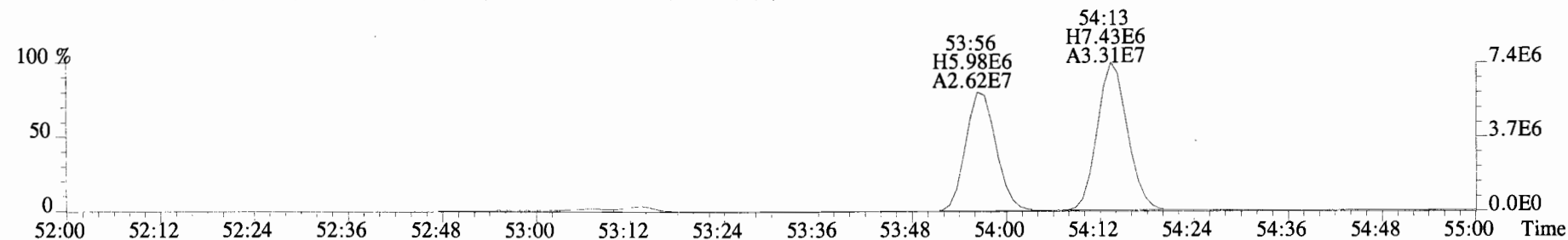
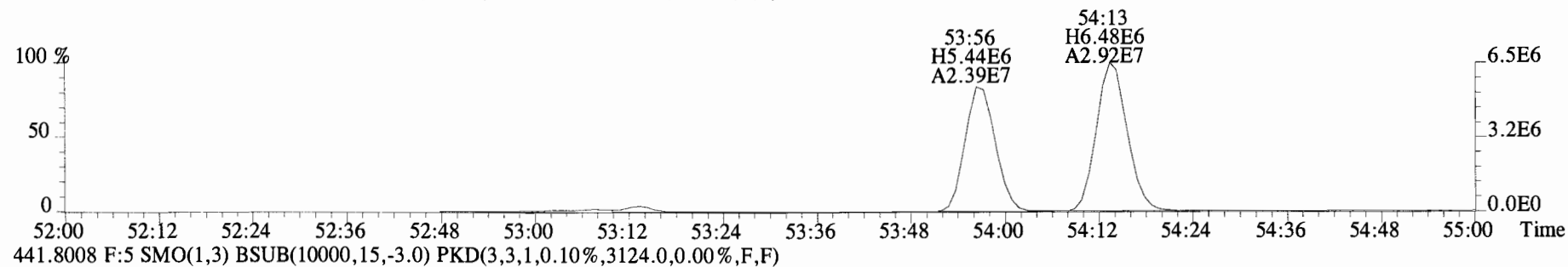
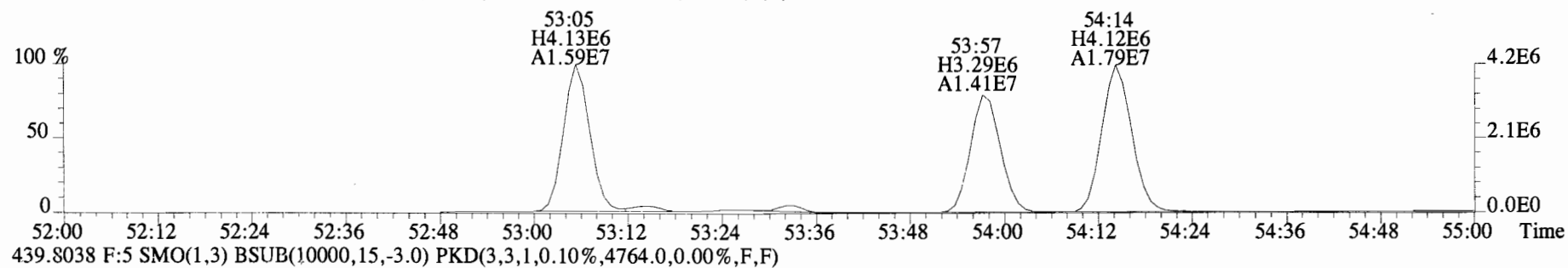
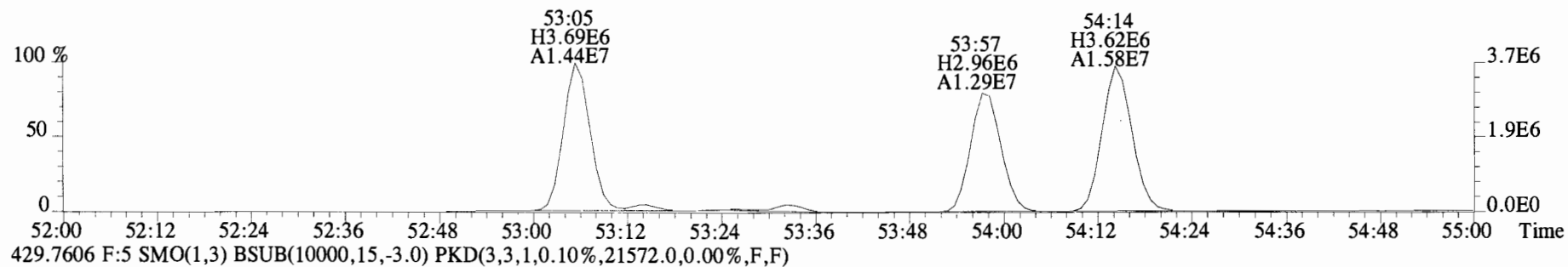
File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12080.0,0.00%,F,F)



File:141002E1 #1-560 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)

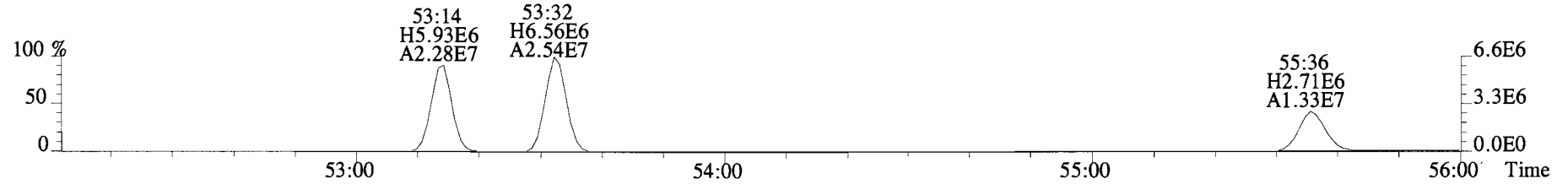


File:141002E1 #1-418 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
427.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18960.0,0.00%,F,F)

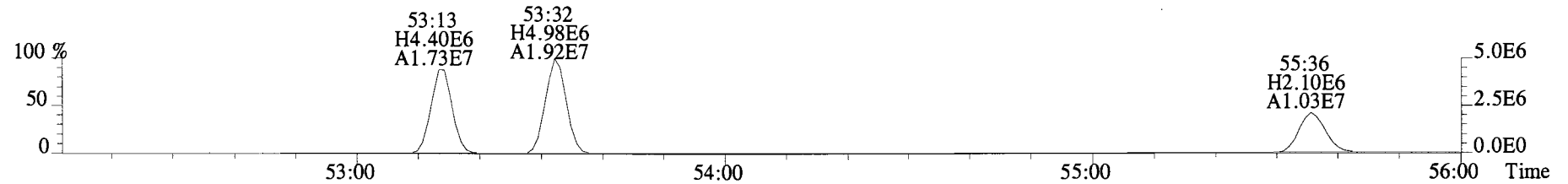




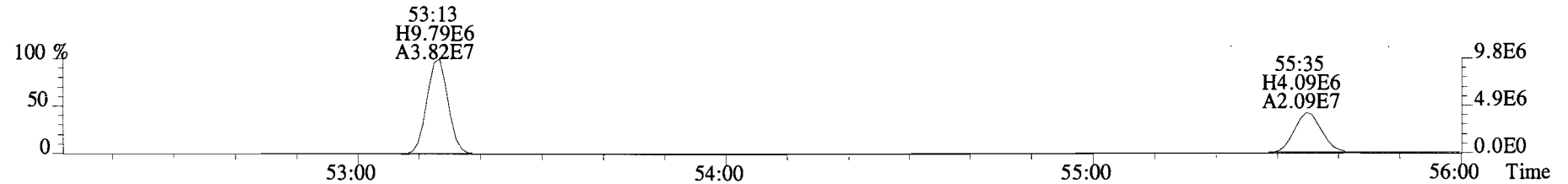
File:141002E1 #1-418 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12860.0,0.00%,F,F)



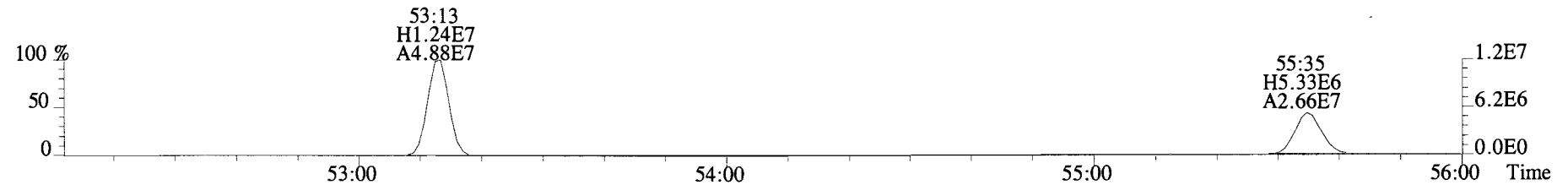
465.7186 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9644.0,0.00%,F,F)



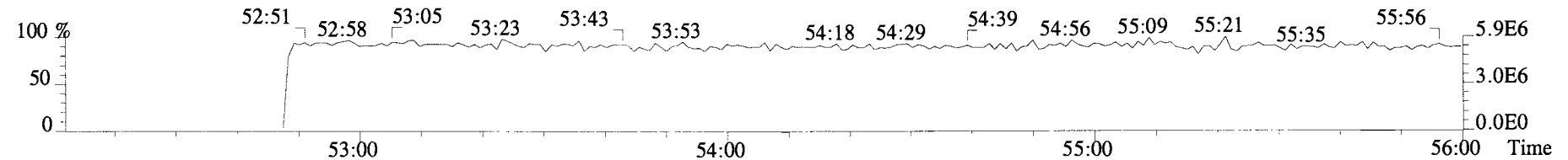
473.7648 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14840.0,0.00%,F,F)



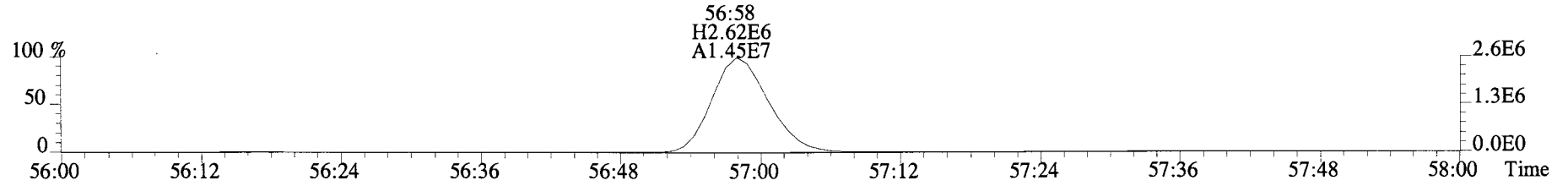
475.7619 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22280.0,0.00%,F,F)



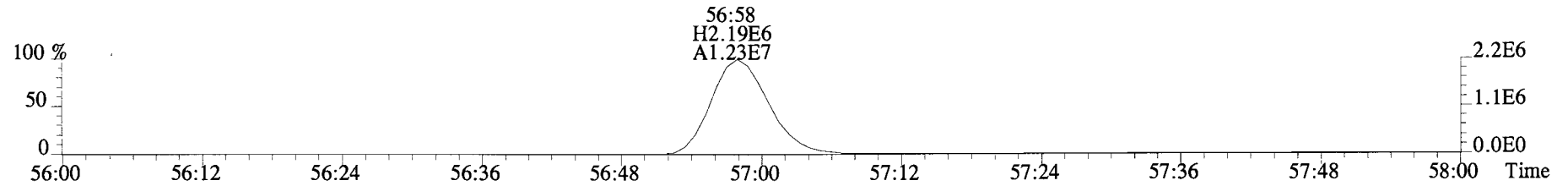
492.9697 F:5



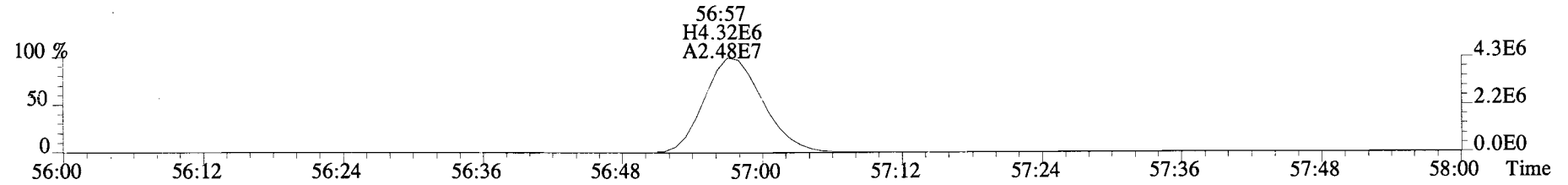
File:141002E1 #1-418 Acq: 2-OCT-2014 09:59:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST141002E1-1 PCB CS3 14F1302 Exp:PCB\_ZB1  
497.6826 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1120.0,0.00%,F,F)



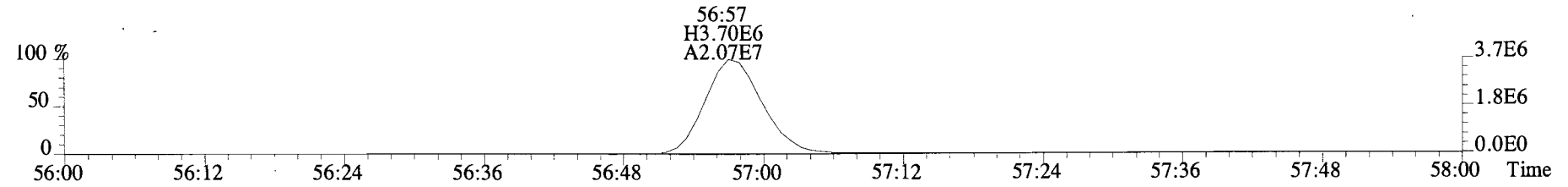
499.6797 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,980.0,0.00%,F,F)



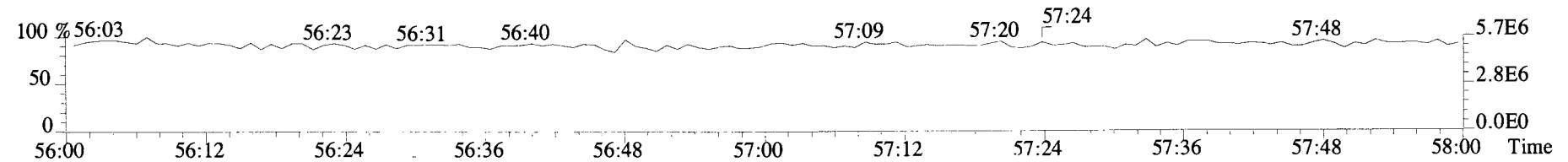
509.7229 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1192.0,0.00%,F,F)



511.7199 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1124.0,0.00%,F,F)

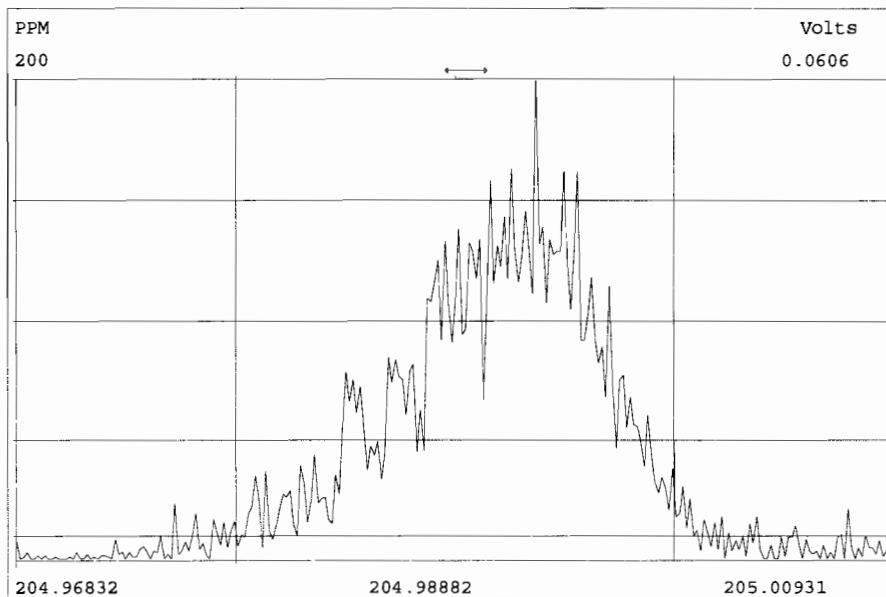
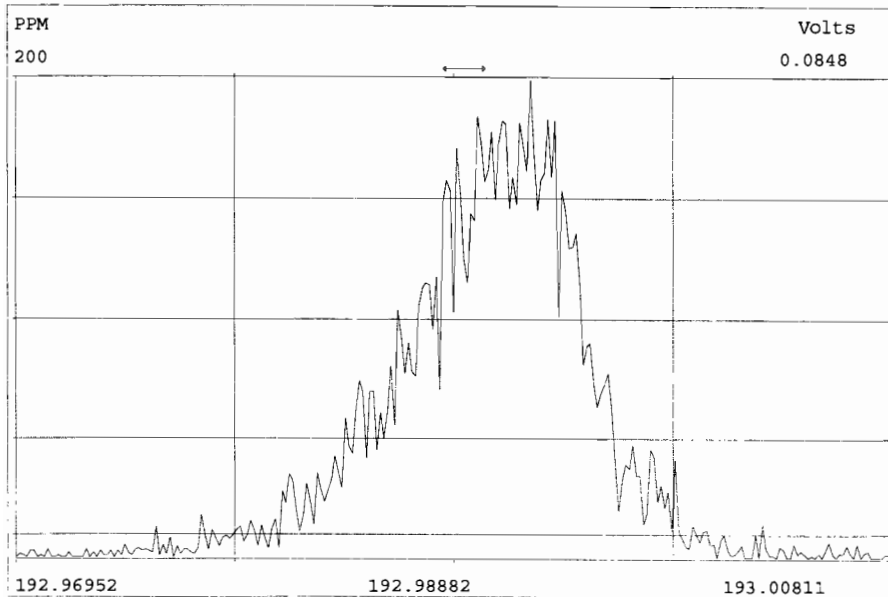
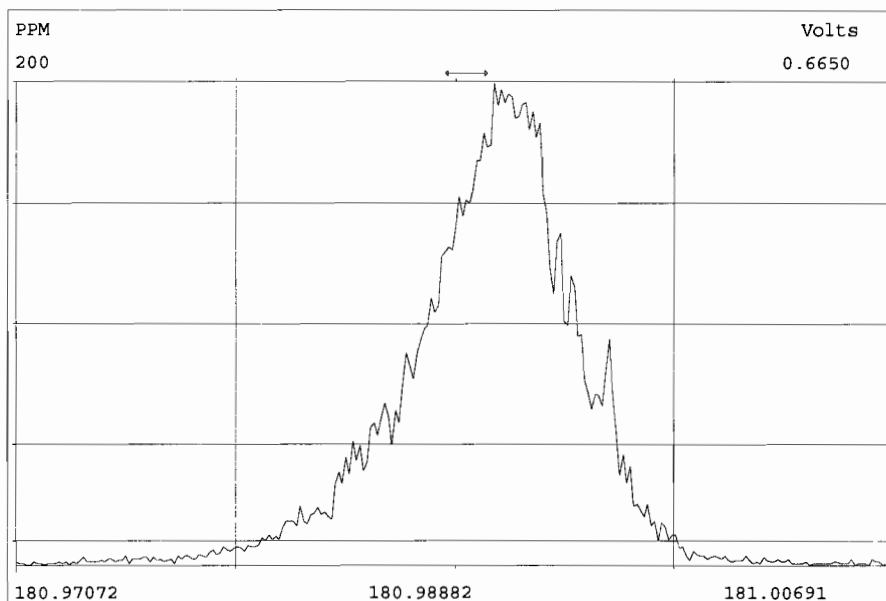
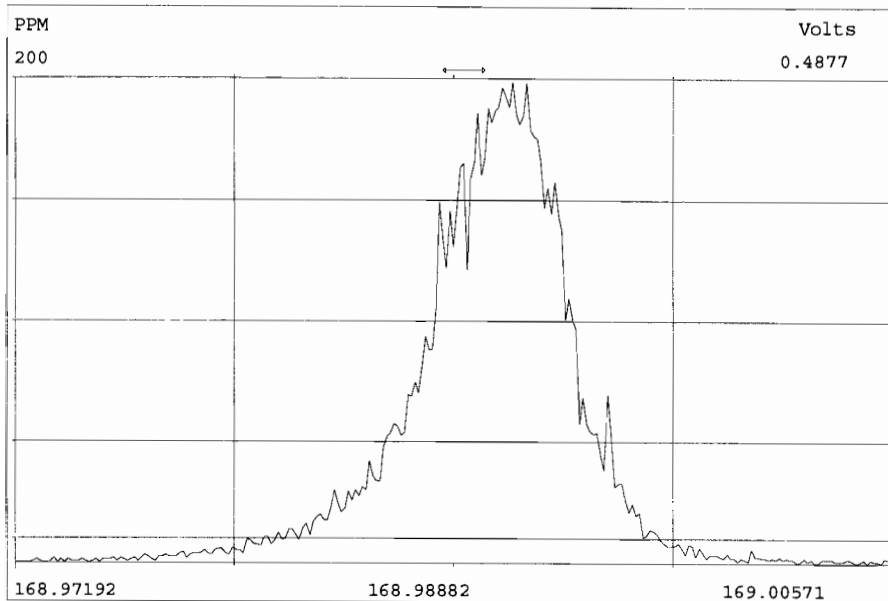


492.9697 F:5



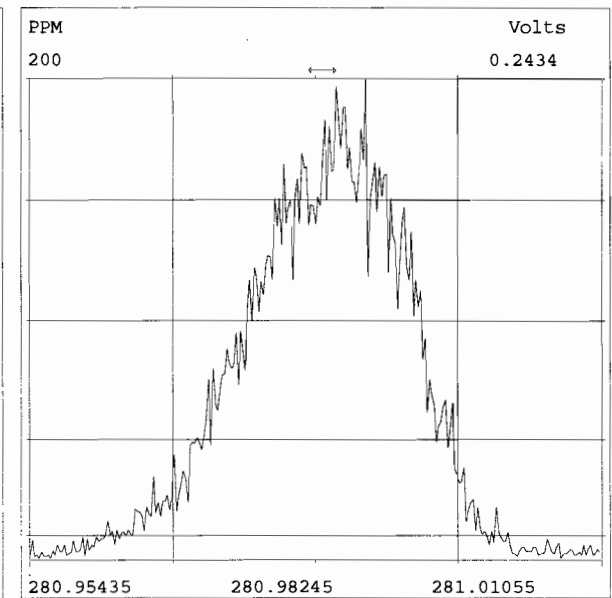
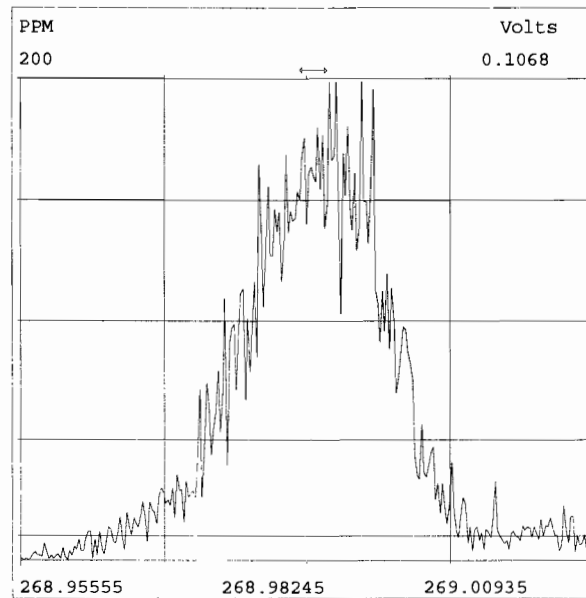
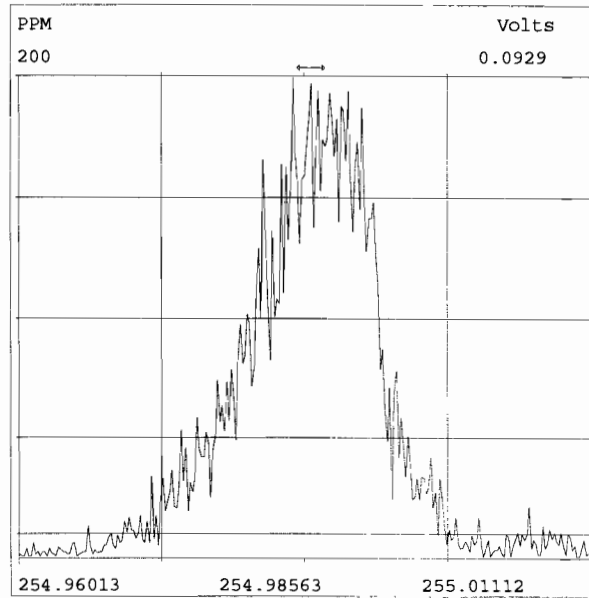
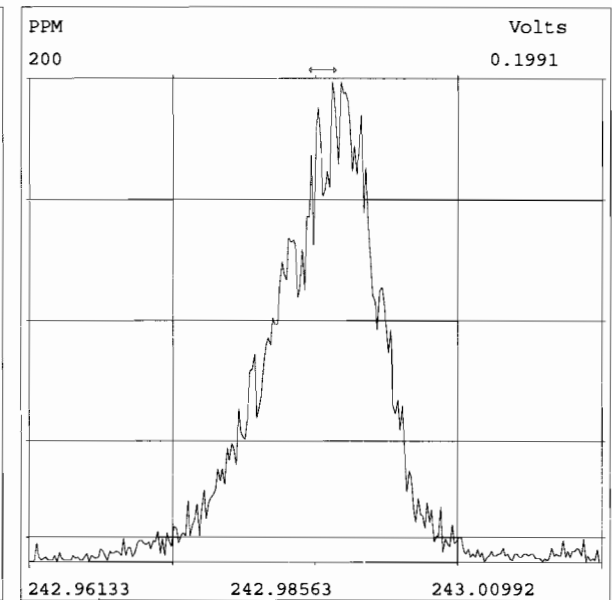
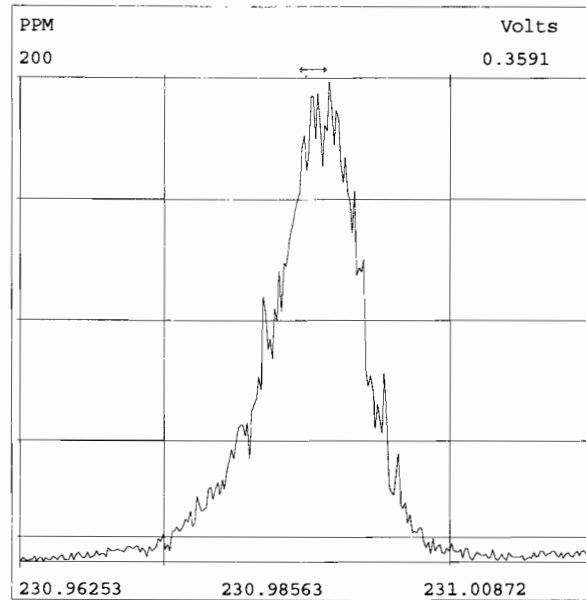
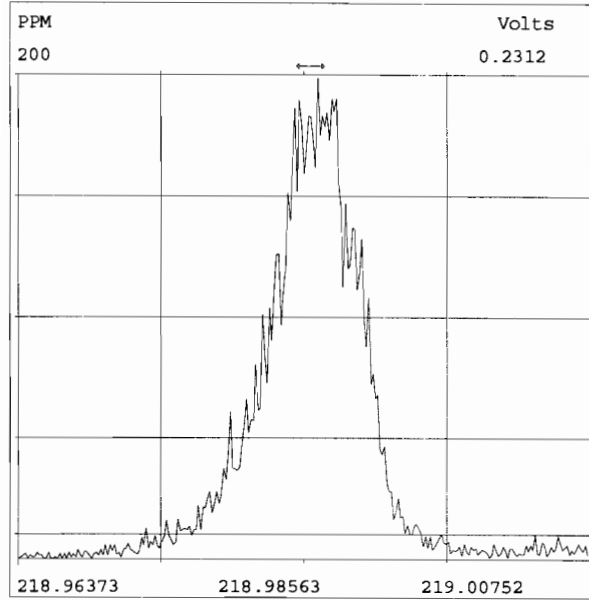
Peak Locate Examination: 2-OCT-2014:17:38 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:1 Reference:PFK



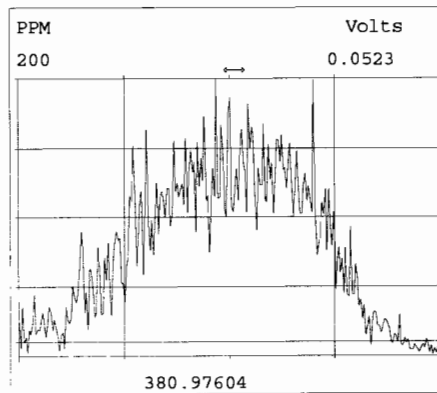
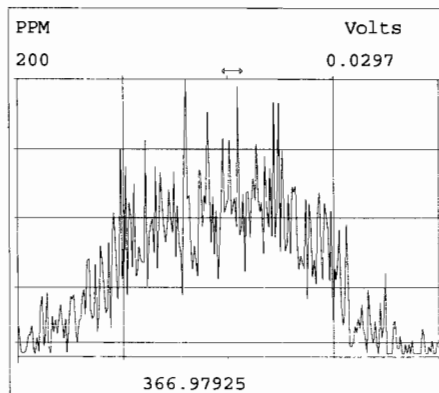
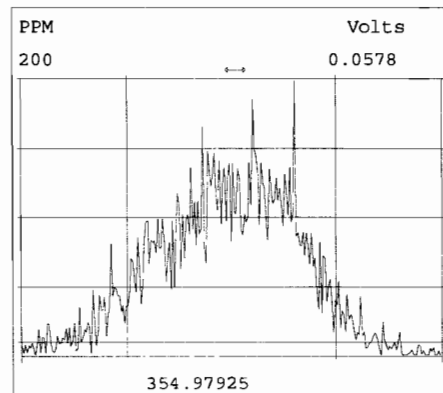
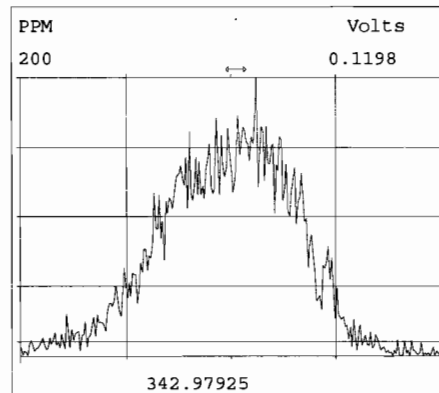
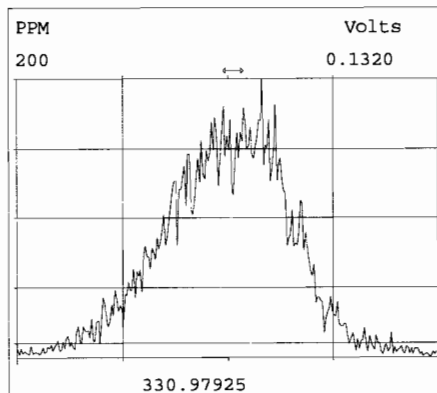
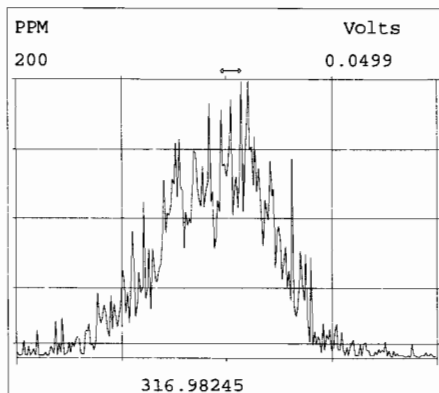
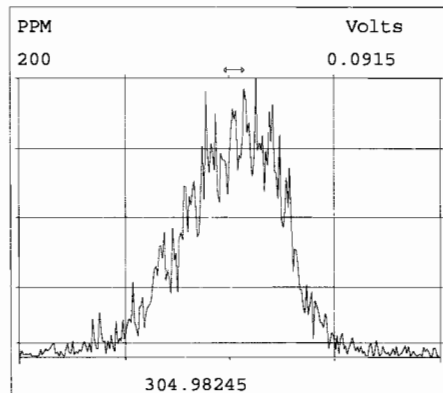
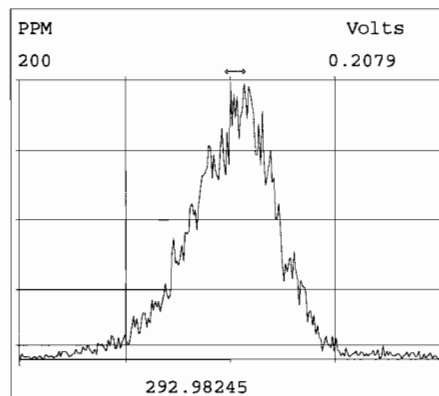
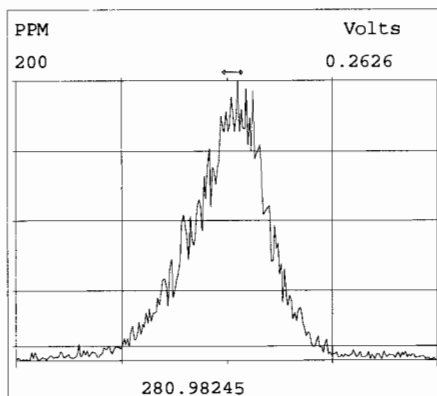
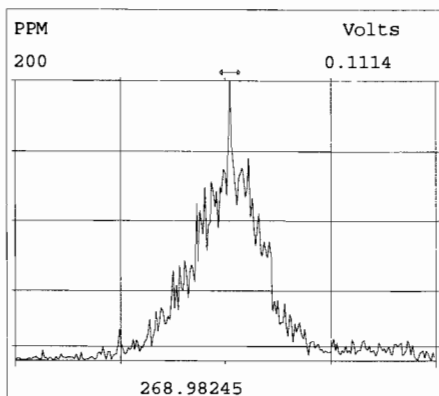
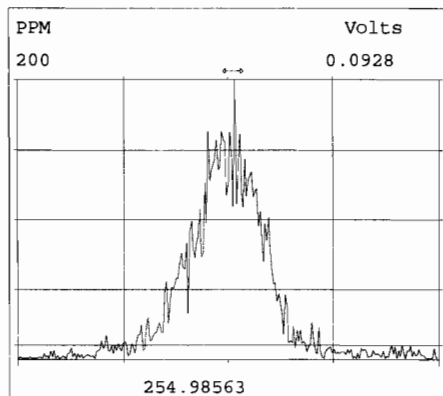
Peak Locate Examination: 2-OCT-2014:17:39 File:RES\_CHECK

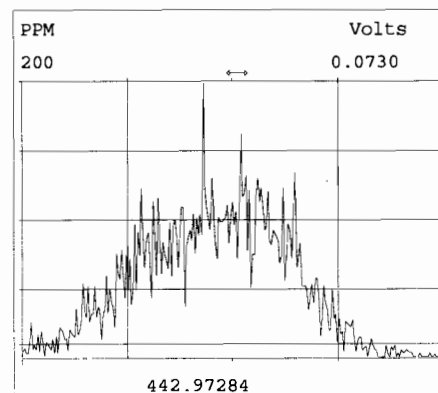
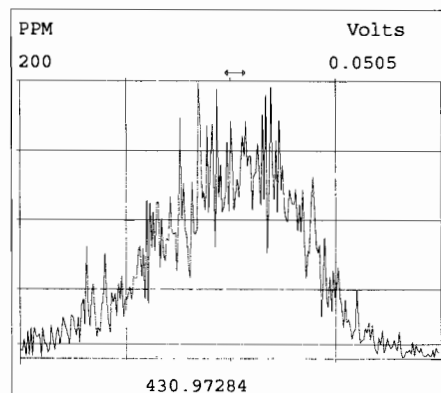
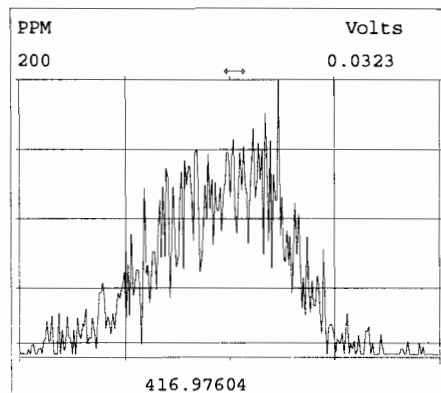
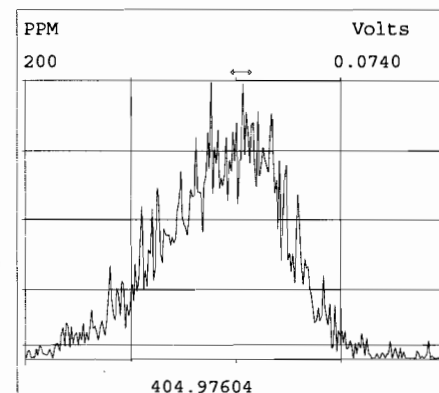
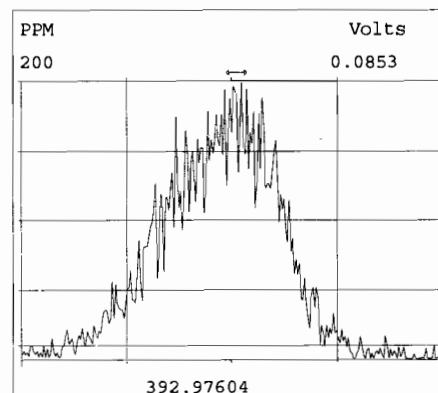
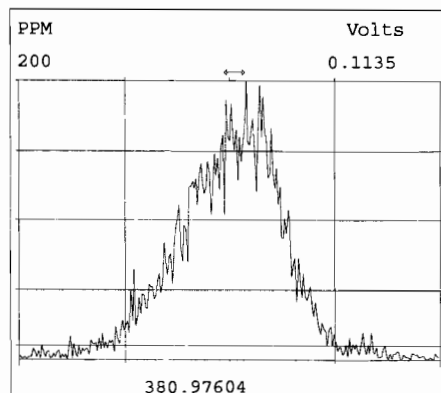
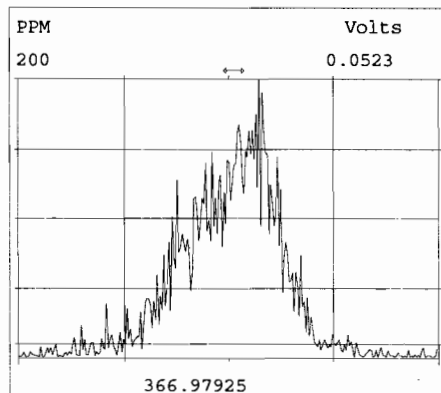
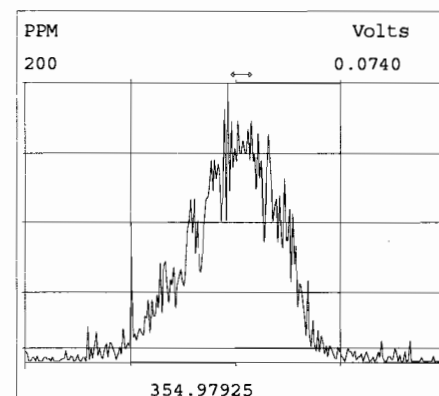
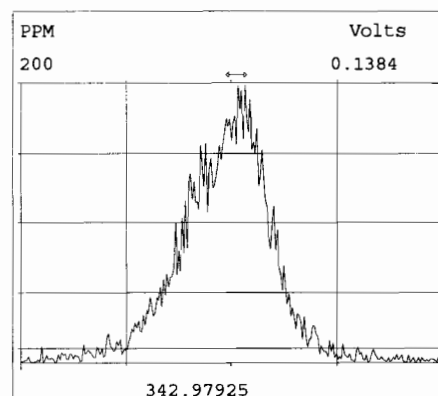
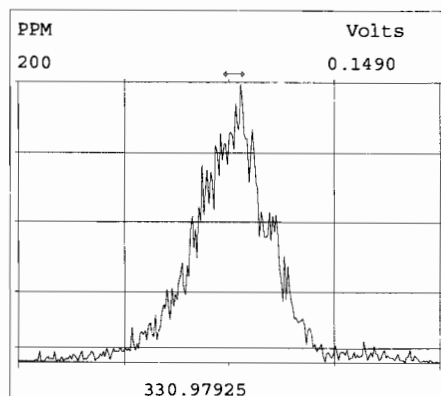
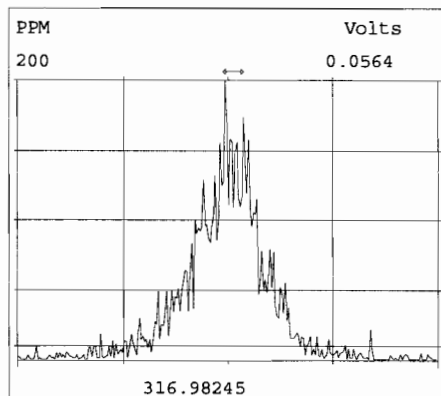
Experiment:PCB\_ZB1 Function:2 Reference:PFK

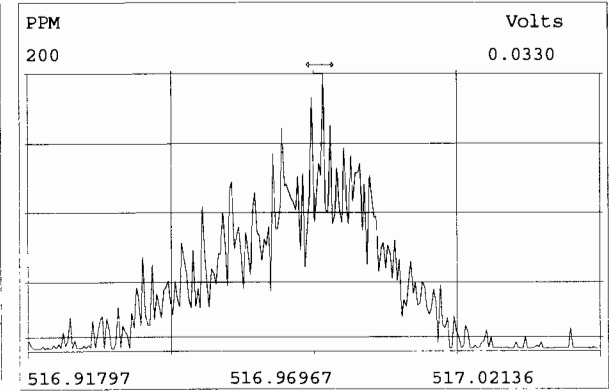
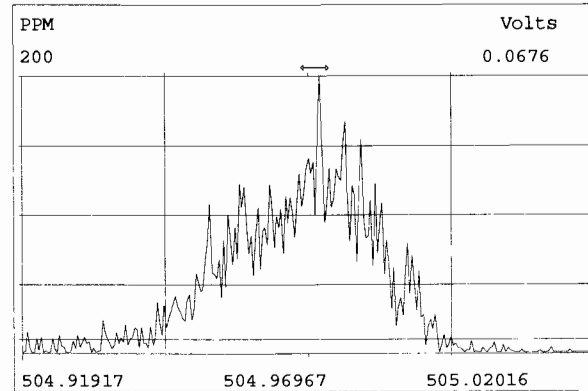
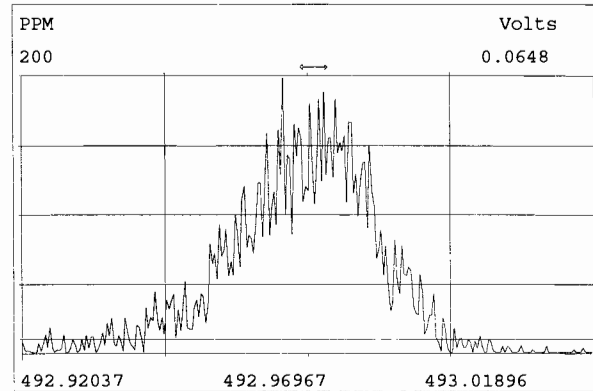
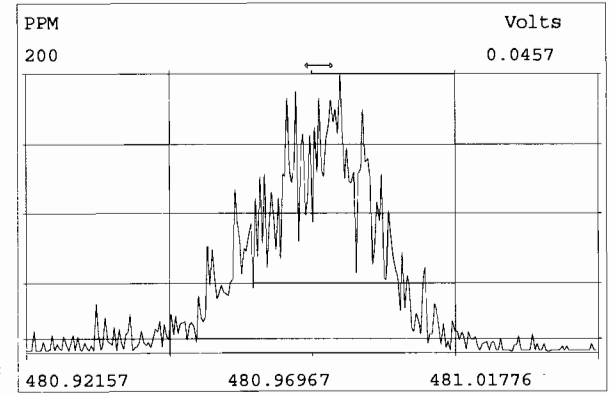
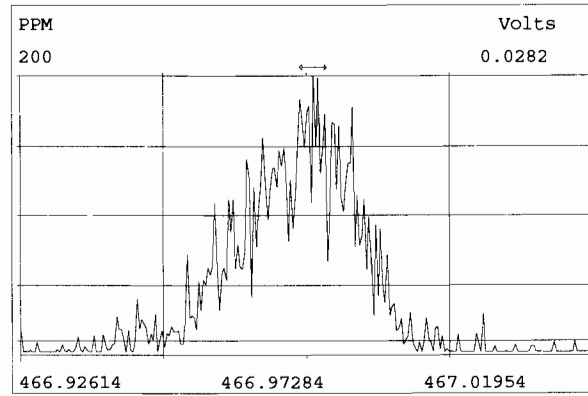
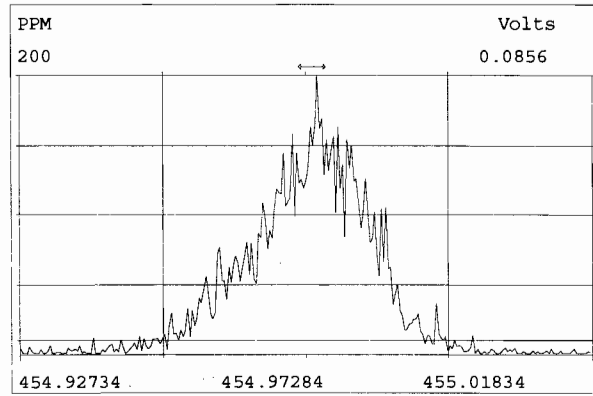
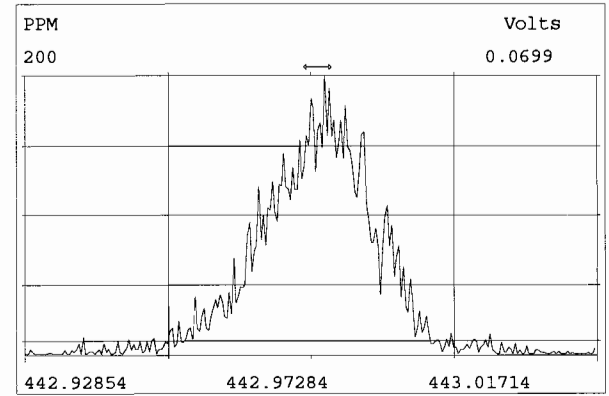
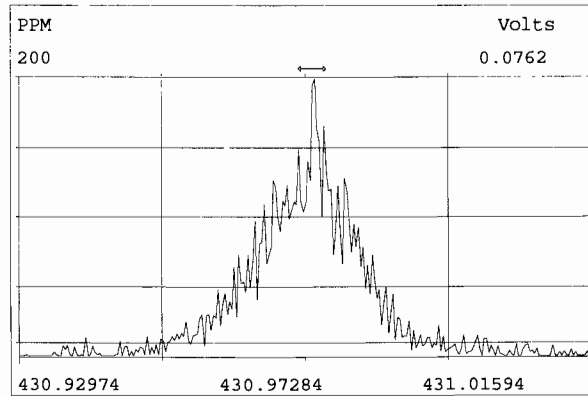
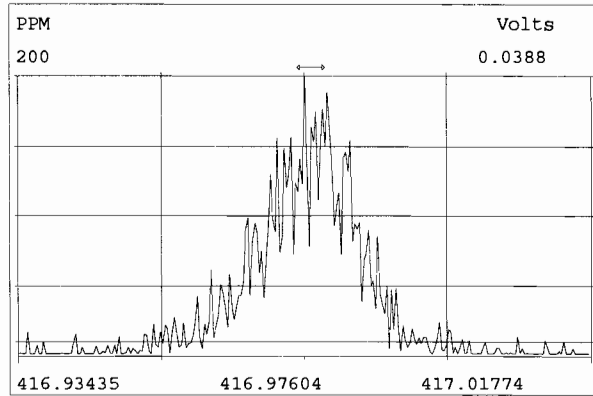


Peak Locate Examination: 2-OCT-2014:17:40 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:3 Reference:PFK







## **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*  
*MR 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

Run: 140417d1

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
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	51.2	8.2 - 12.3 (4) 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: (M)Date: 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

LABELLED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	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)

&lt;25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: msDate: 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

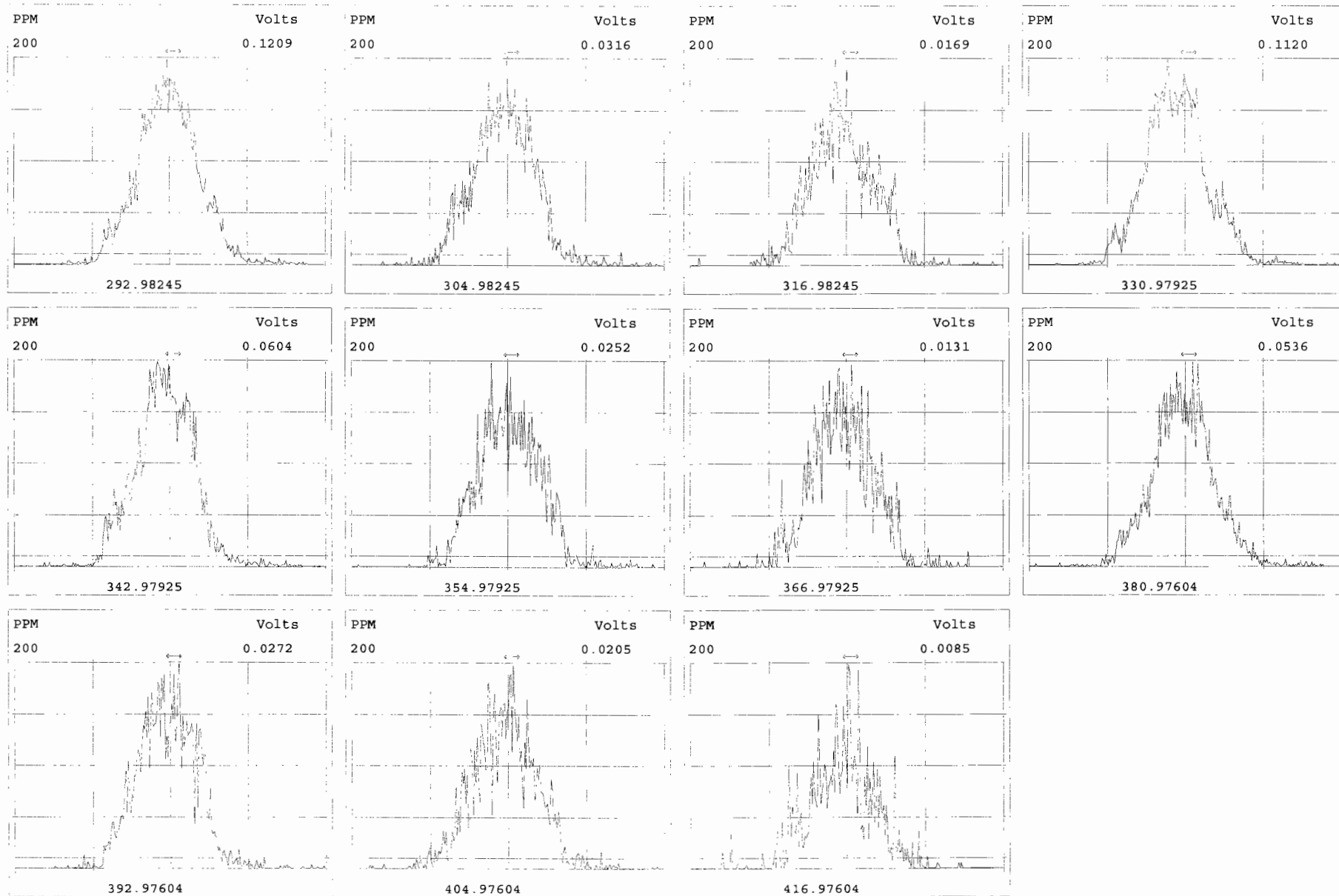
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GC Column ID: ZB-5MS ICal: 1613VG7-4-17-14 wt/vol: 1.000

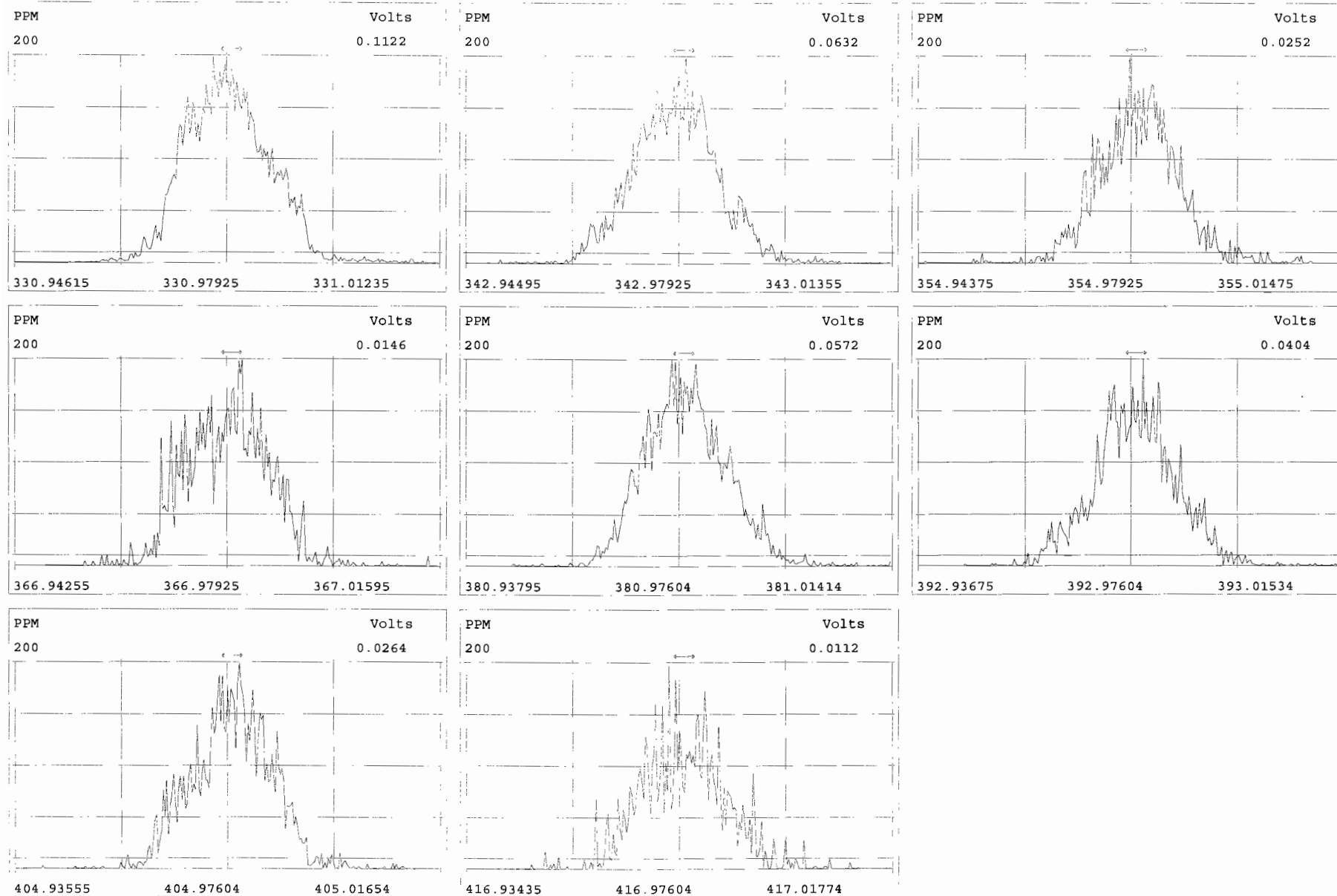
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EndCAL: NA

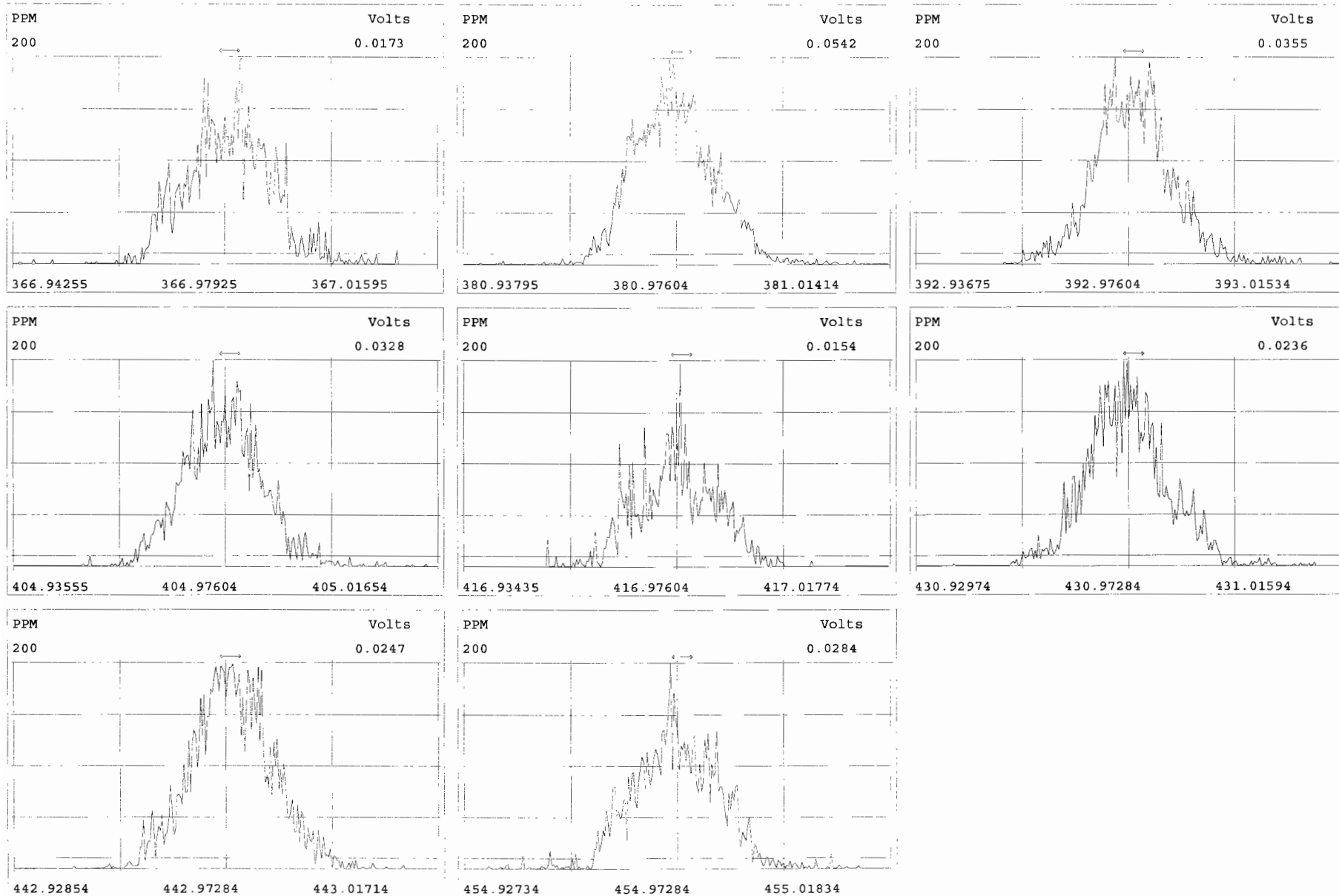
Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.94e+06	0.75 y	1.03	27:04	1.001	9.7259	*	2.5	*	*	Total Tetra-Dioxins	53.0	53.2	*	*	
1,2,3,7,8-PeCDD	1.55e+07	0.61 y	0.84	31:38	1.000	51.209	*	2.5	*	*	Total Penta-Dioxins	167	167	*	*	
1,2,3,4,7,8-HxCDD	1.44e+07	1.31 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					
											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>					
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



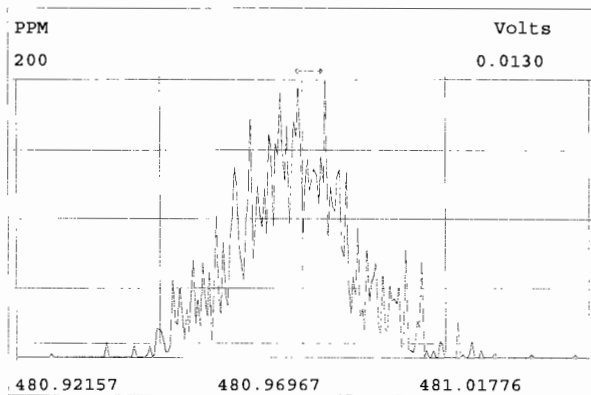
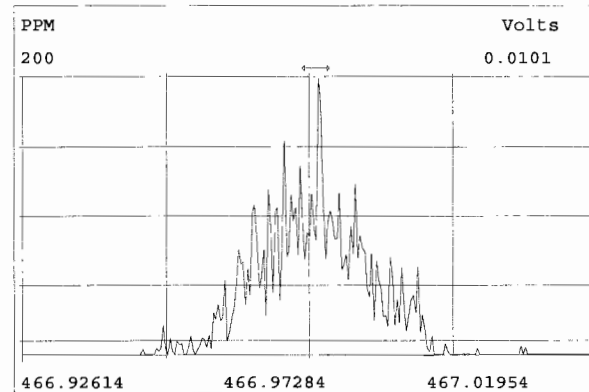
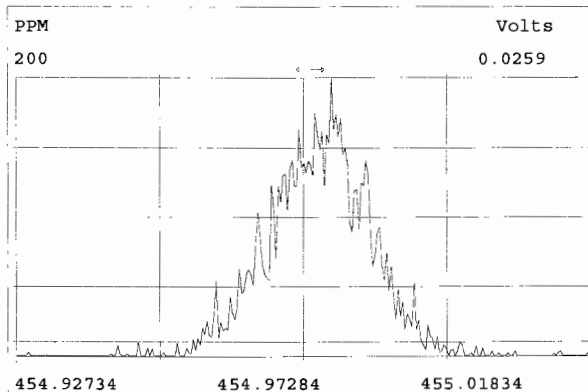
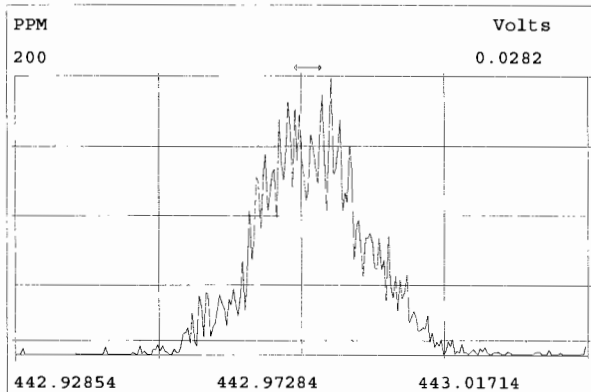
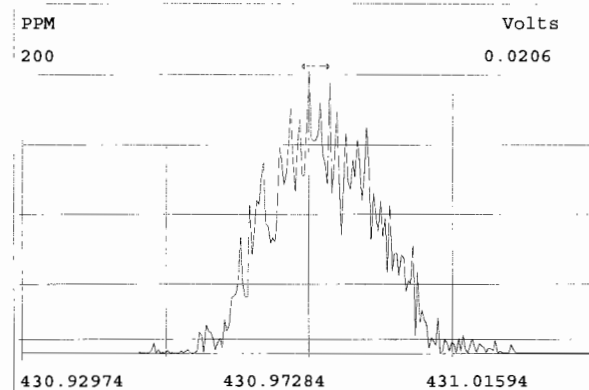
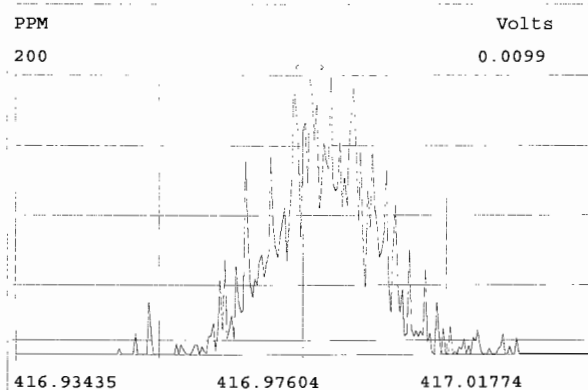
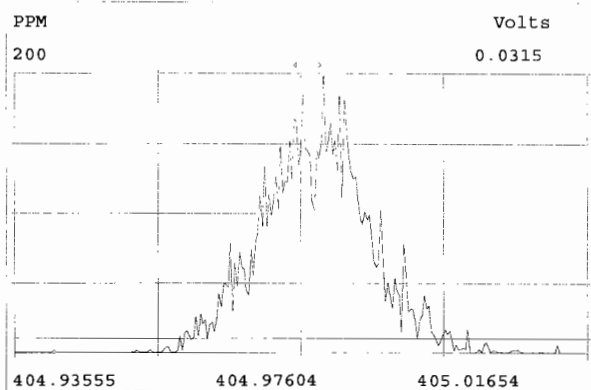






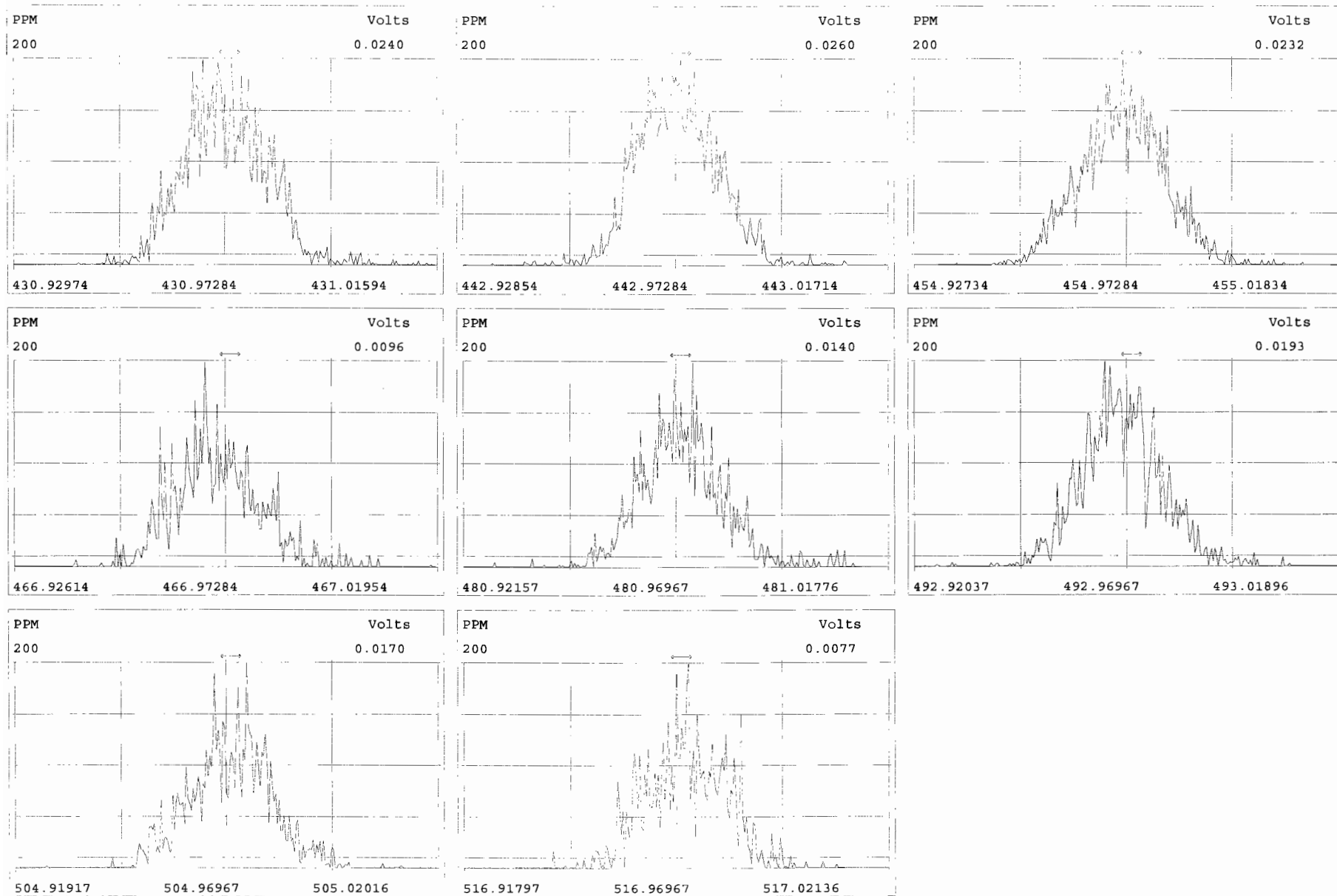
Peak Locate Examination:17-APR-2014:13:05 File:140417D1

Experiment:OCDD\_DB5 Function:4 Reference:PFK

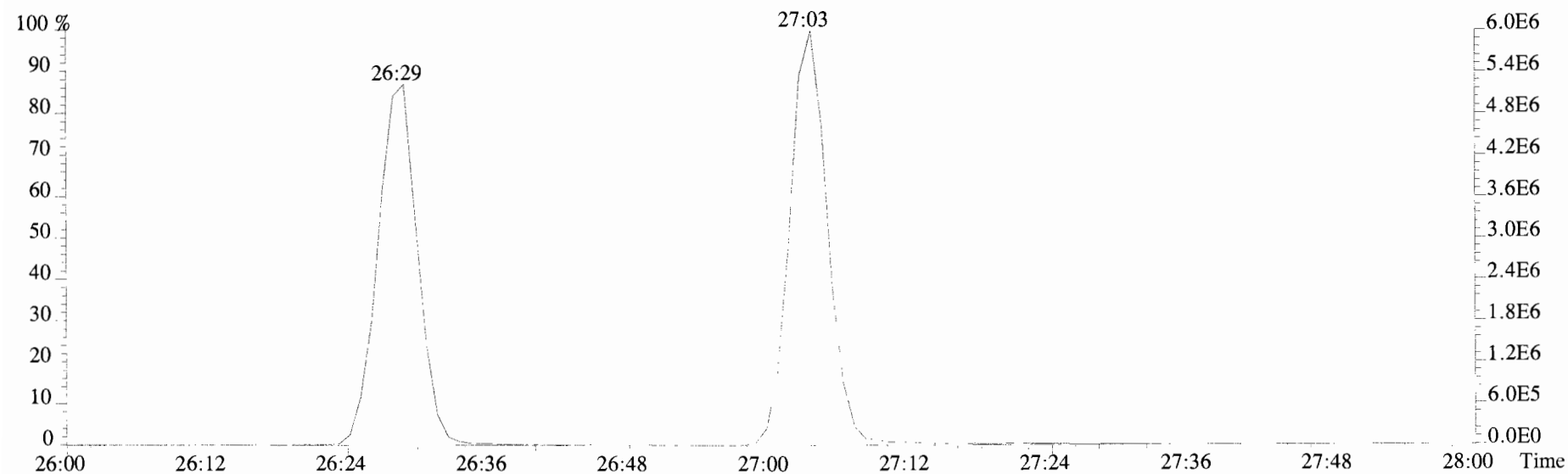
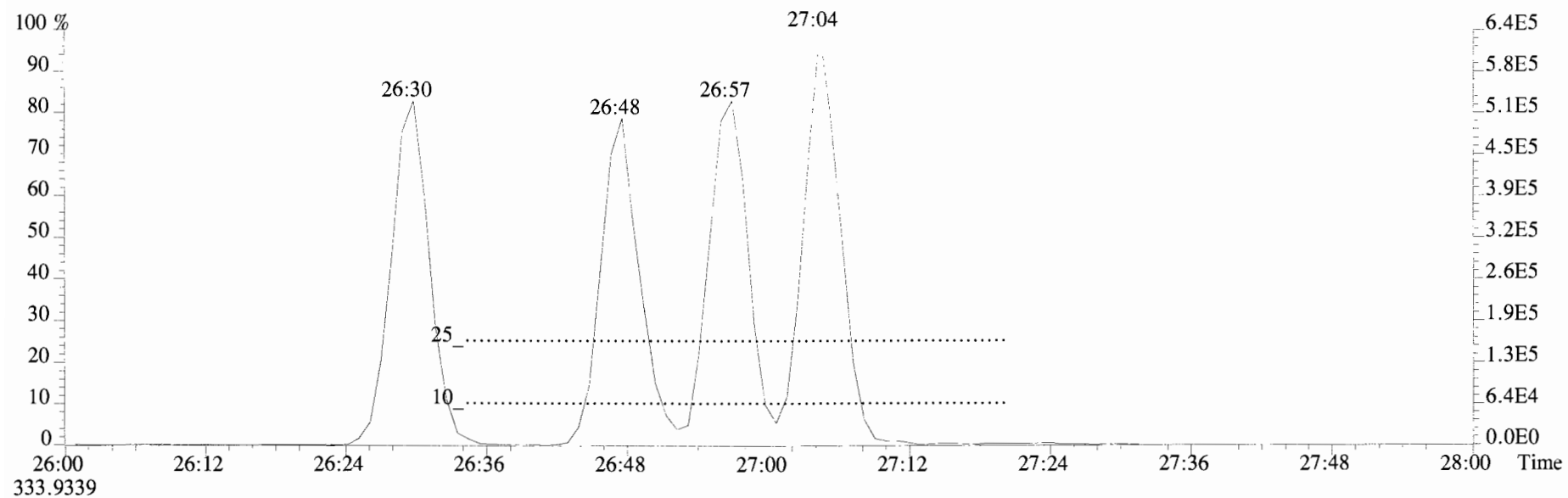


Peak Locate Examination:17-APR-2014:13:05 File:140417D1

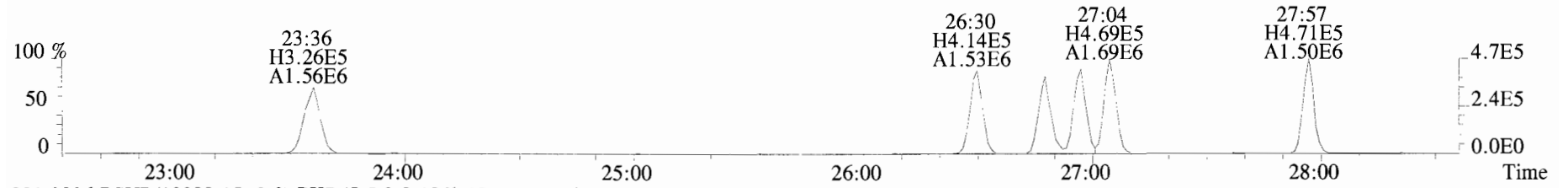
Experiment:OCDD\_DB5 Function:5 Reference:PFK



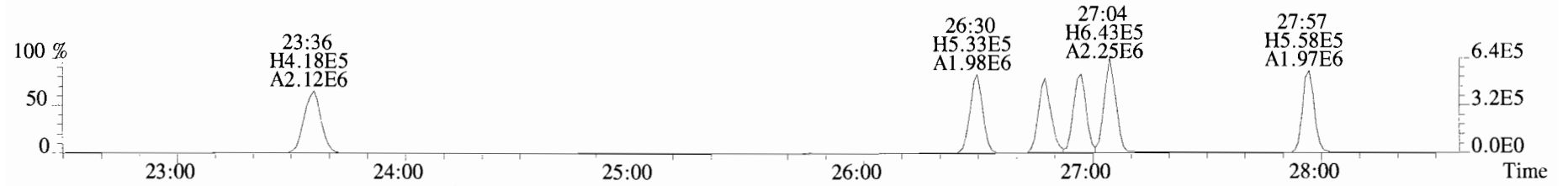
File:140417D1 #1-467 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
321.8936



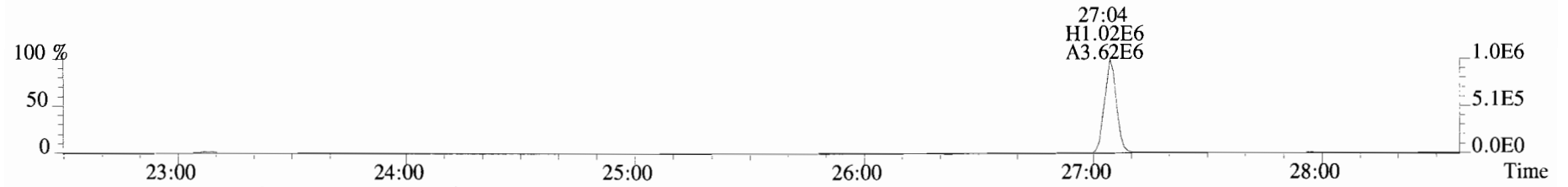
File:140417D1 #1-552 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



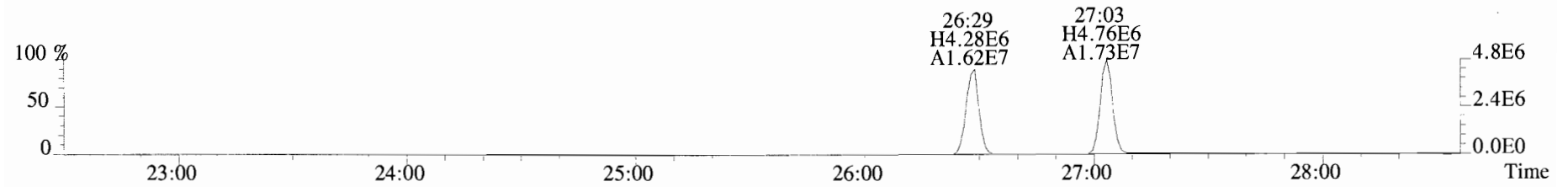
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



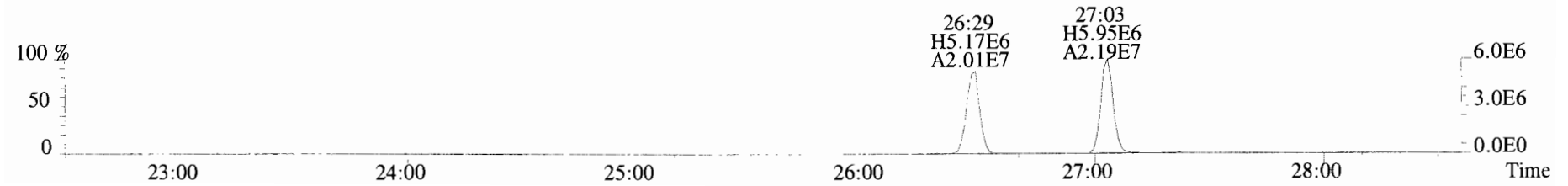
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



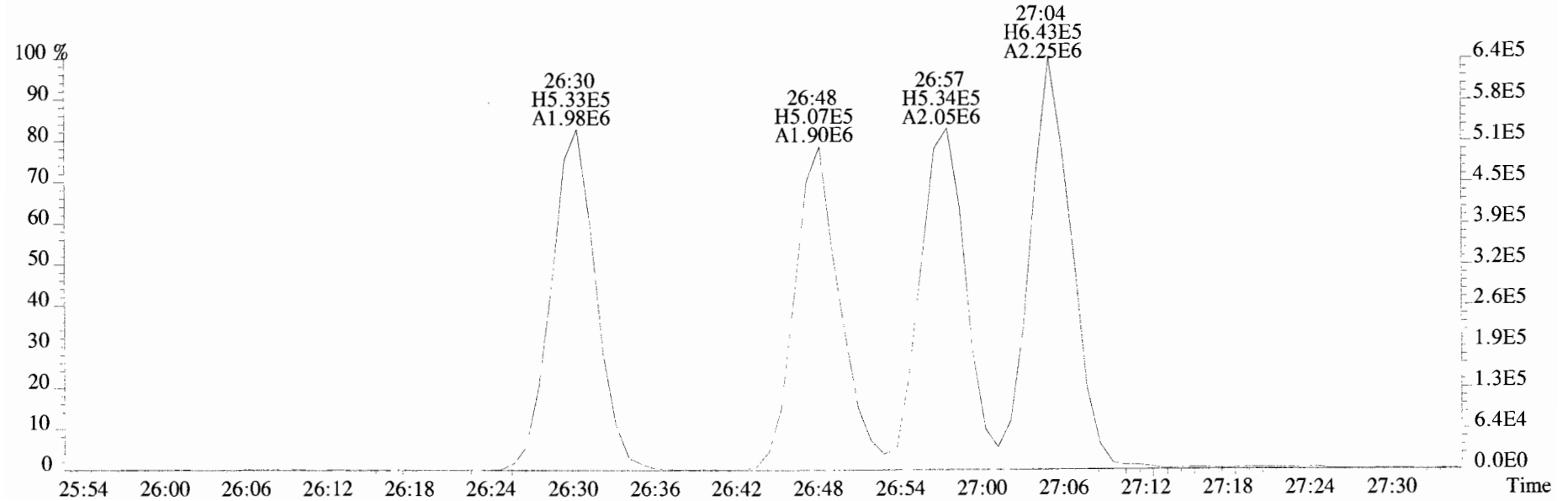
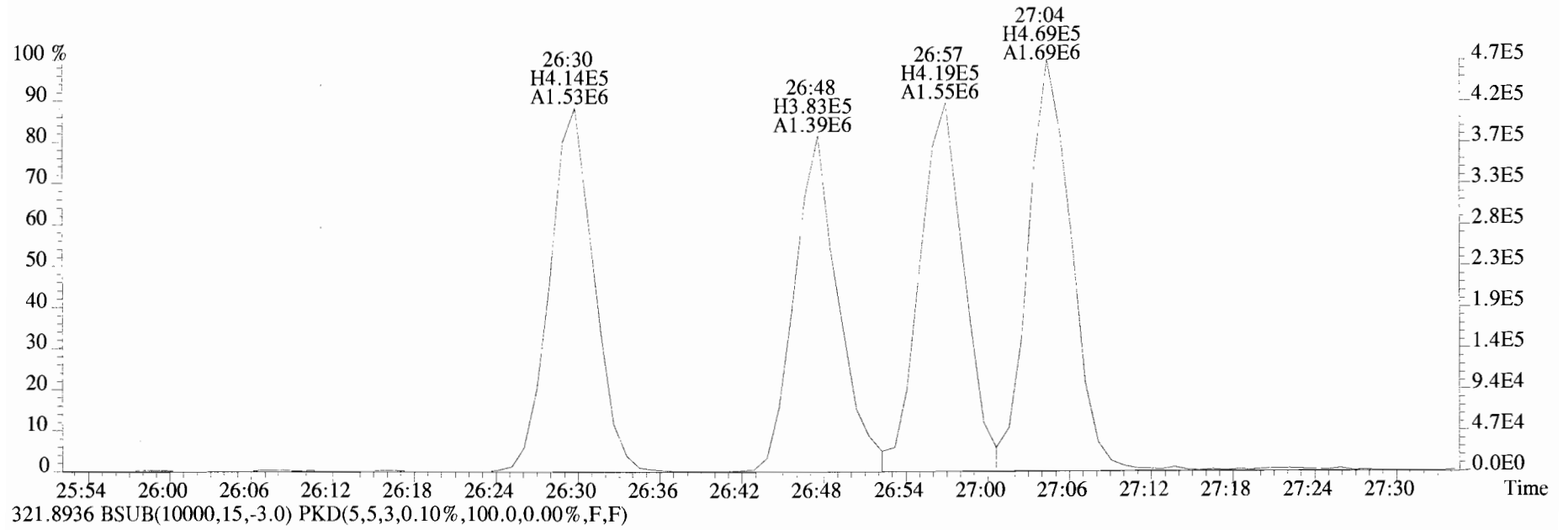
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



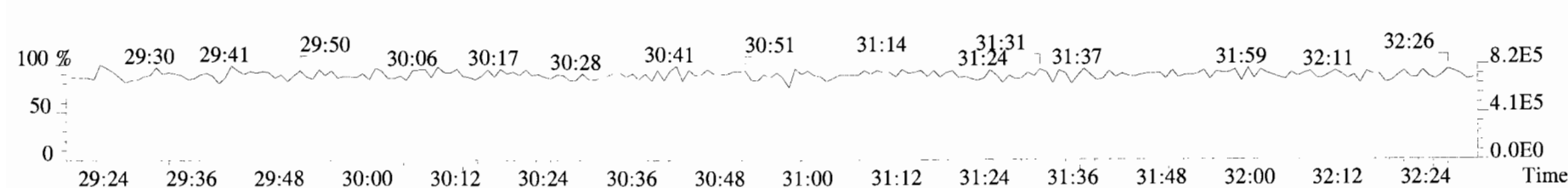
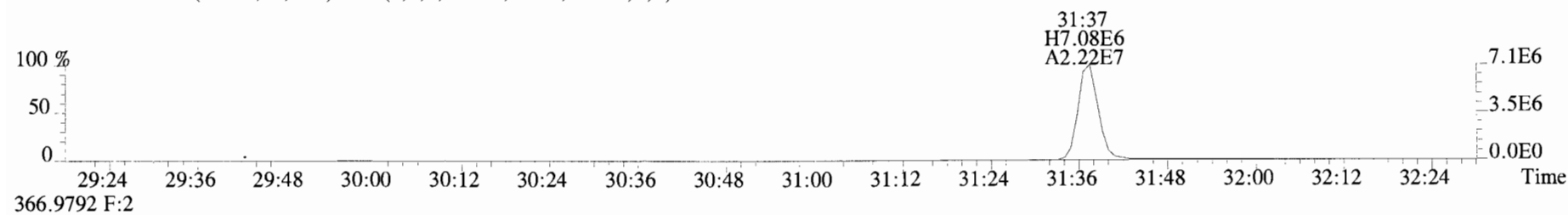
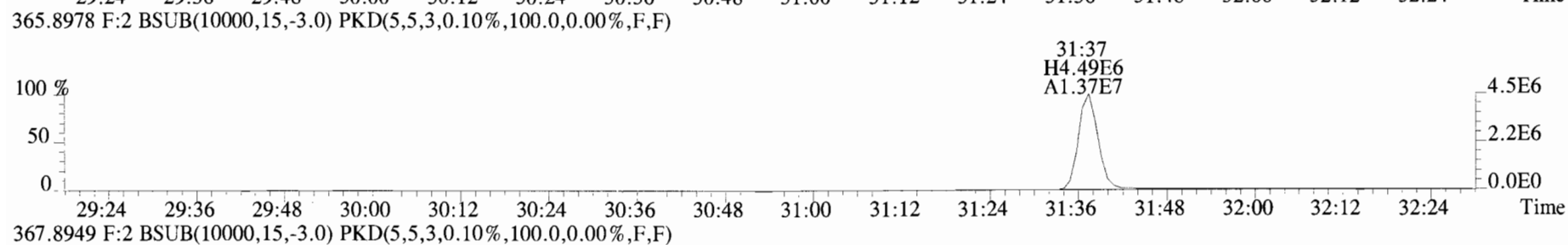
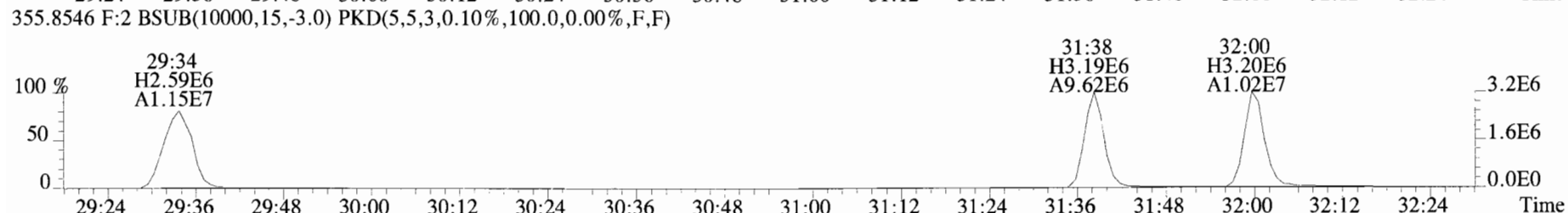
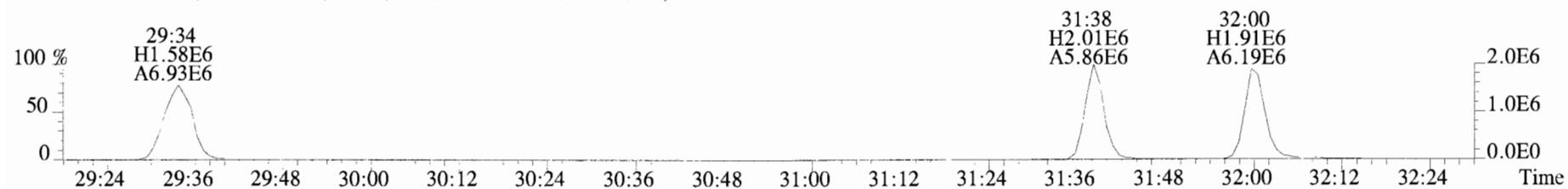
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



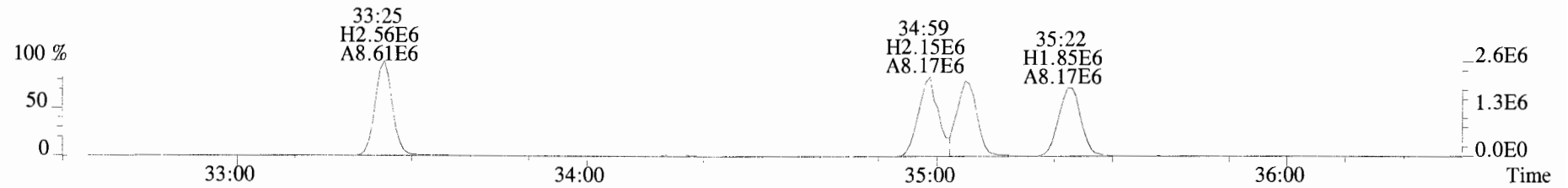
File:140417D1 #1-552 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



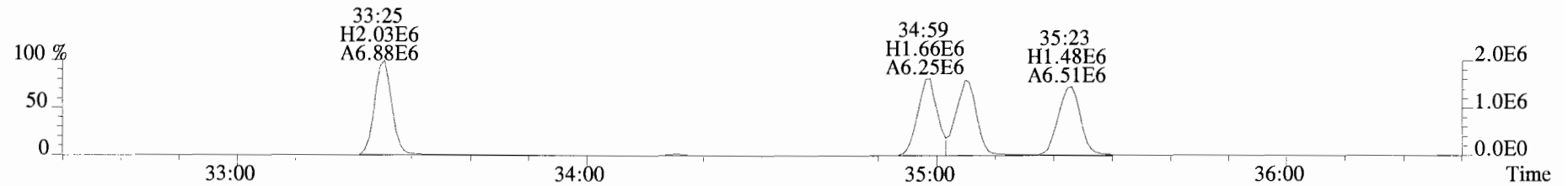
File:140417D1 #1-268 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



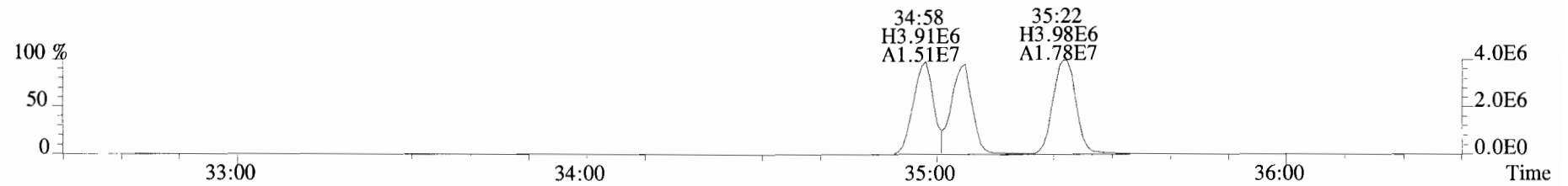
File:140417D1 #1-370 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



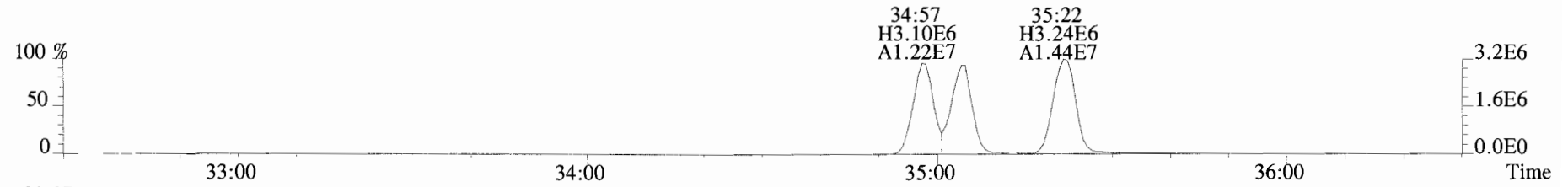
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



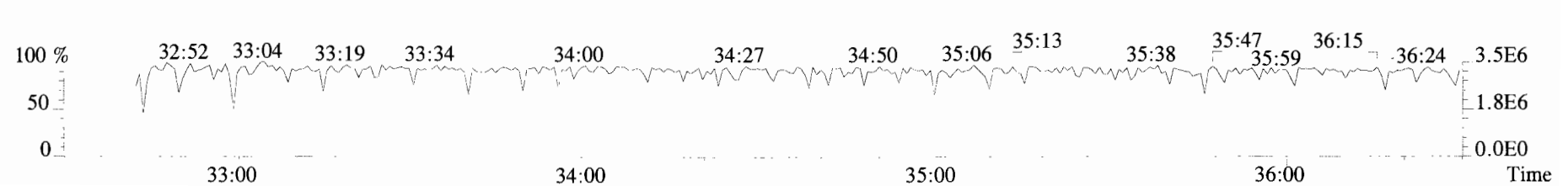
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



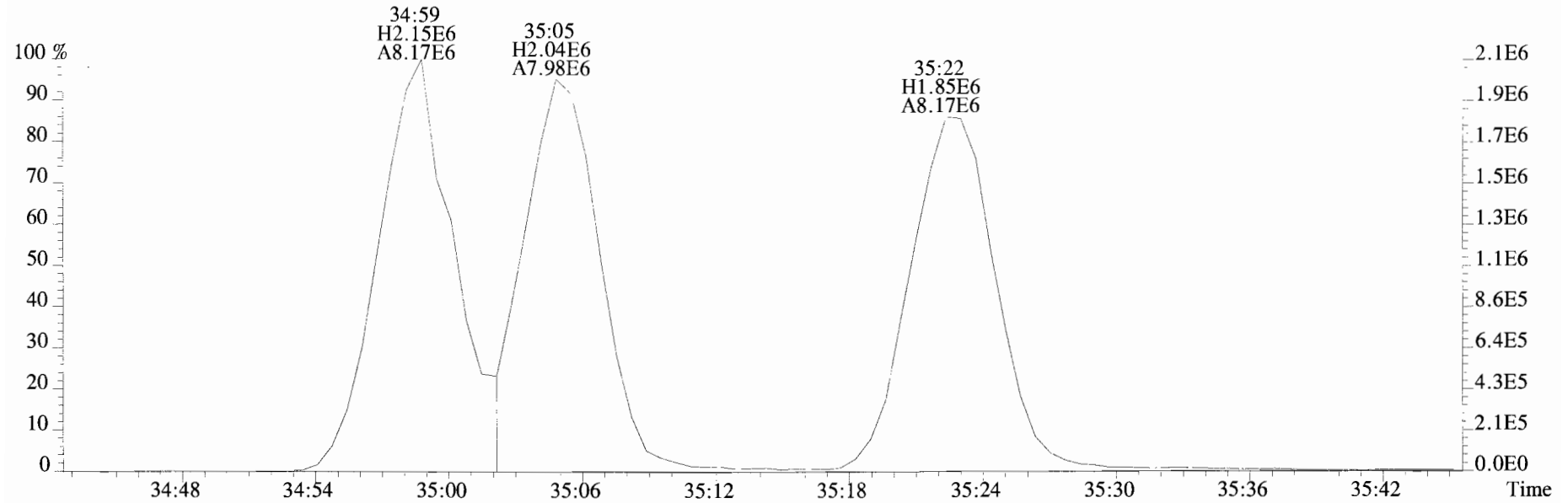
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



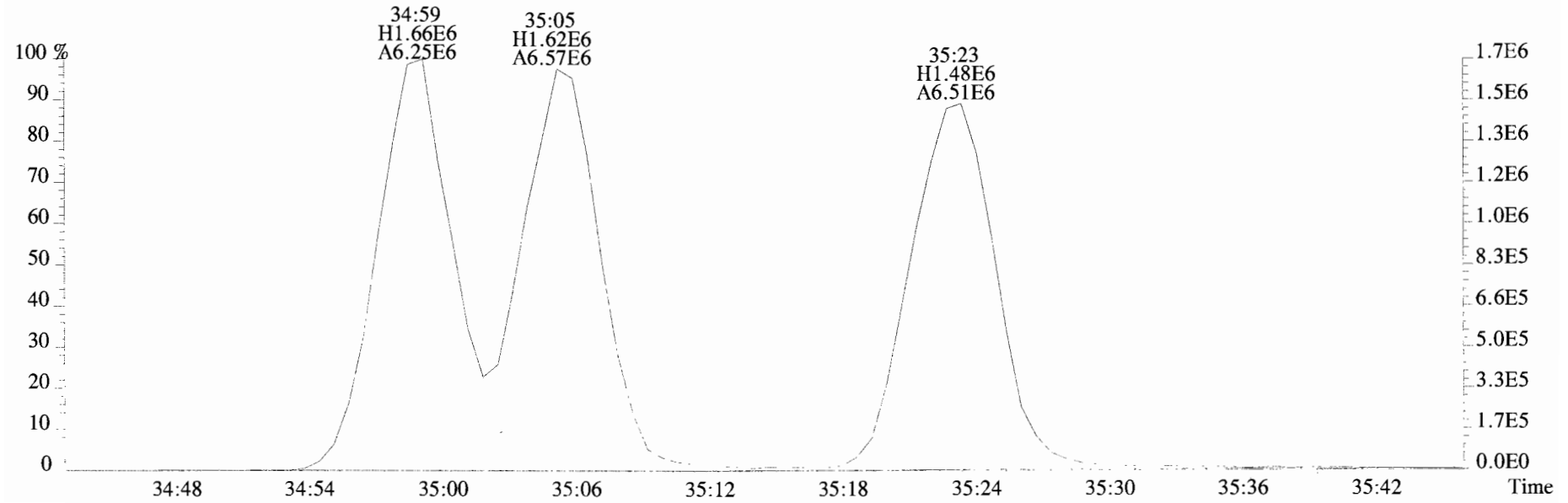
380.9760 F:3



File:140417D1 #1-370 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%.F,F)

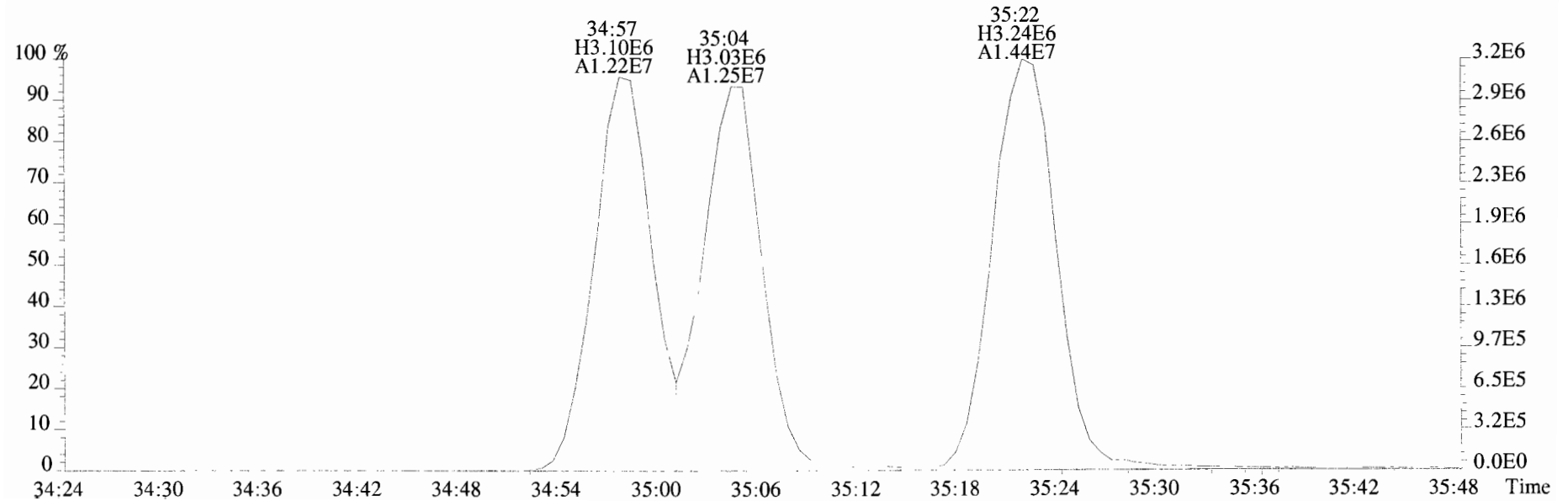
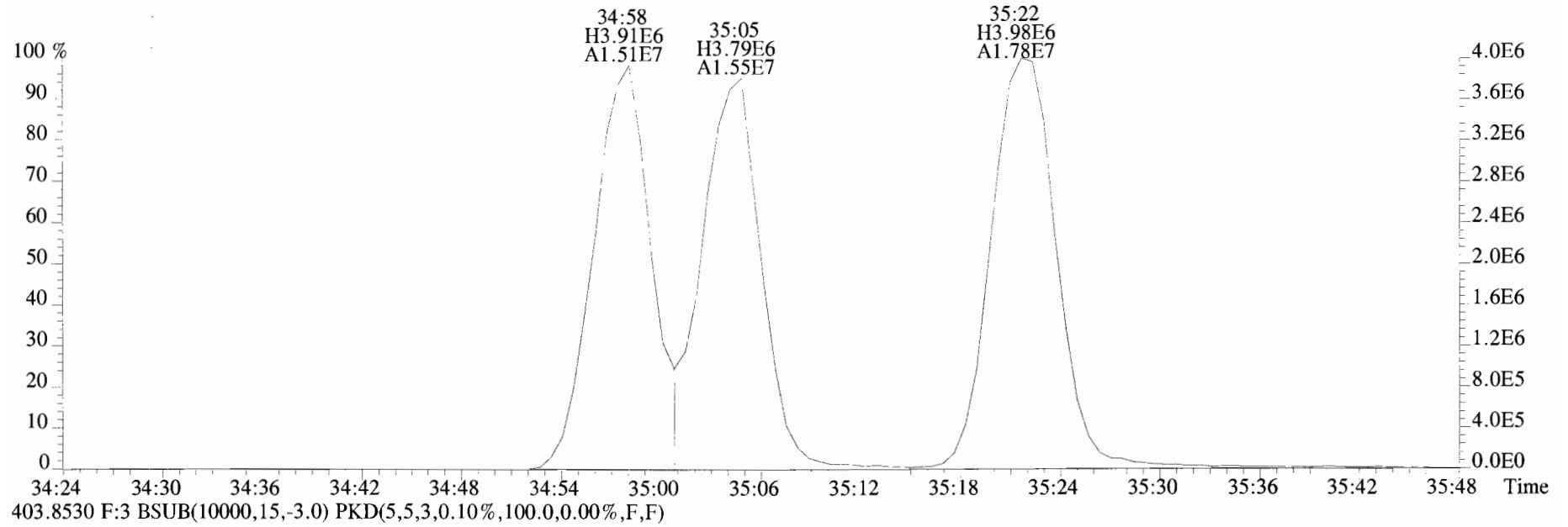


391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%.F,F)

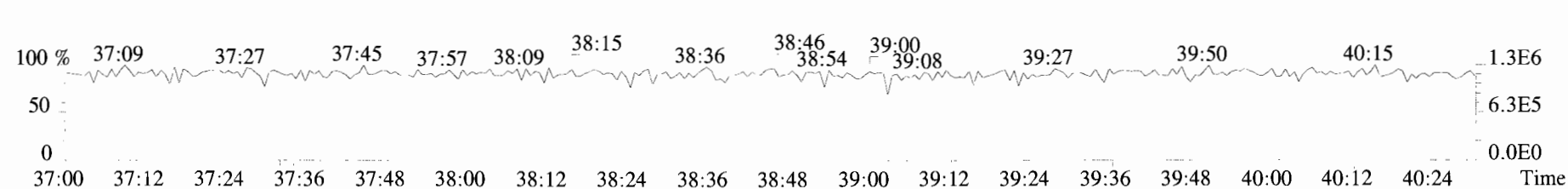
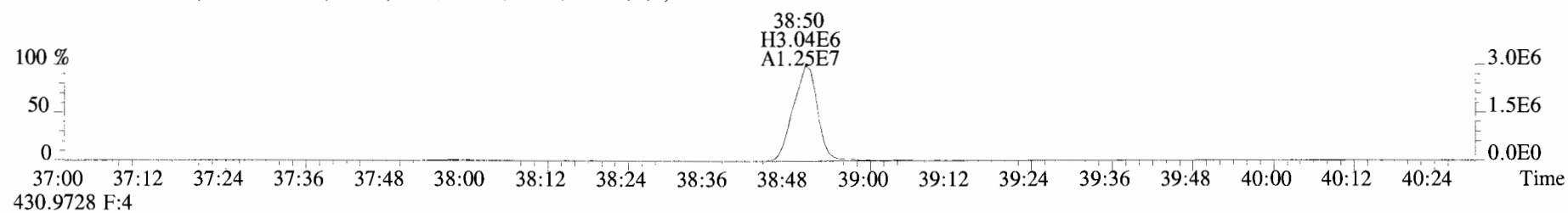
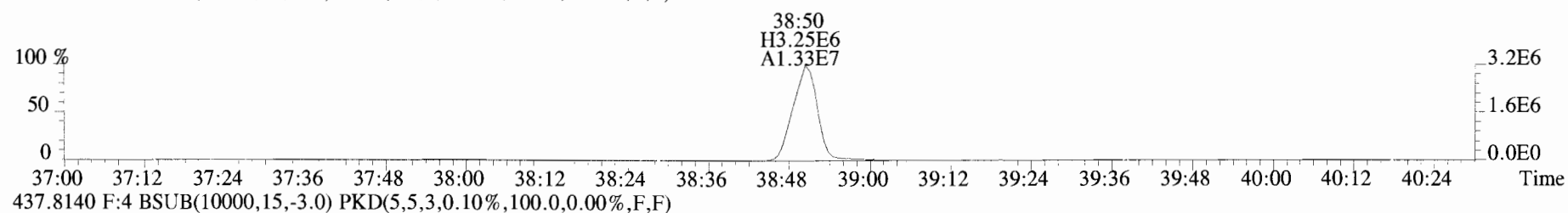
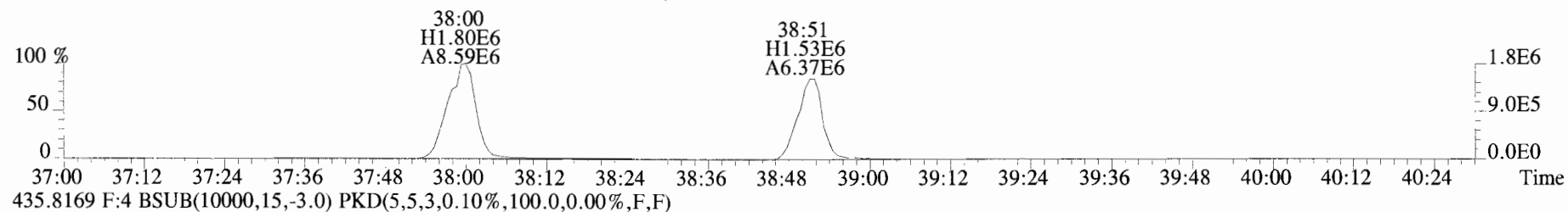
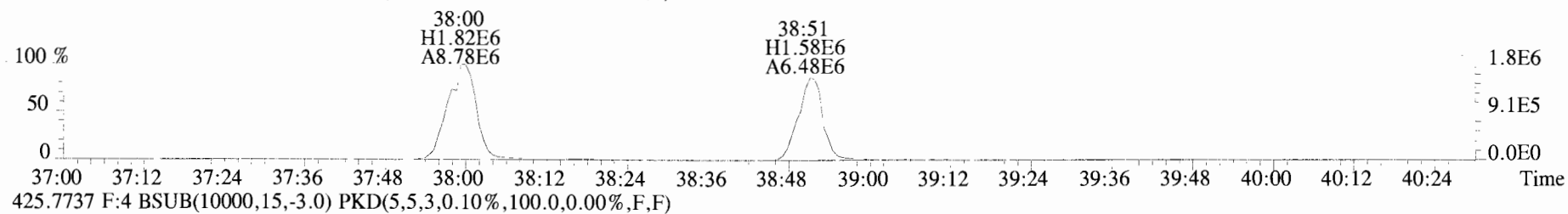




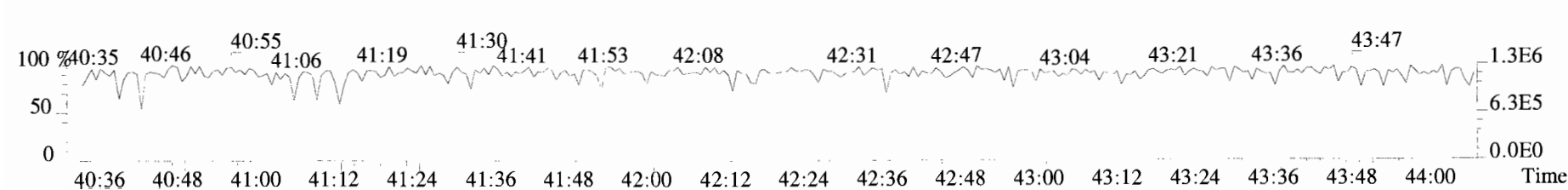
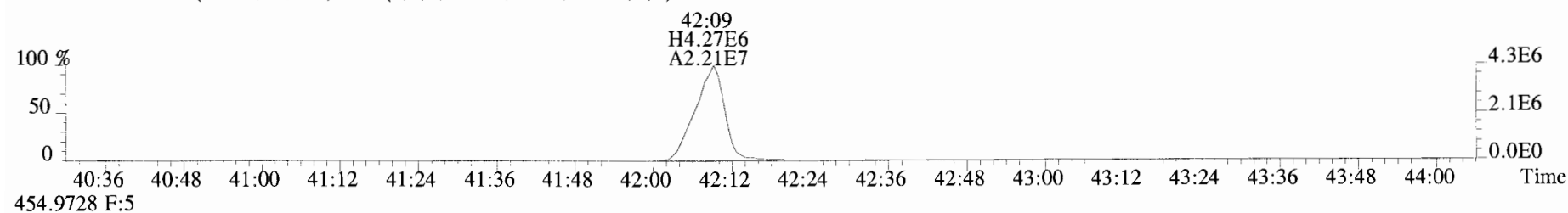
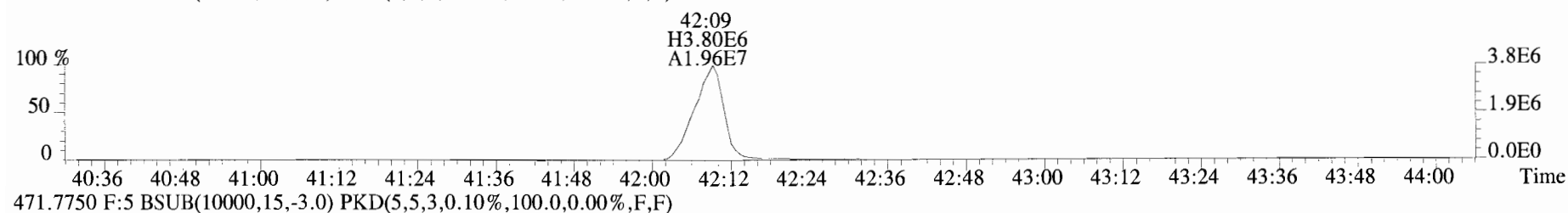
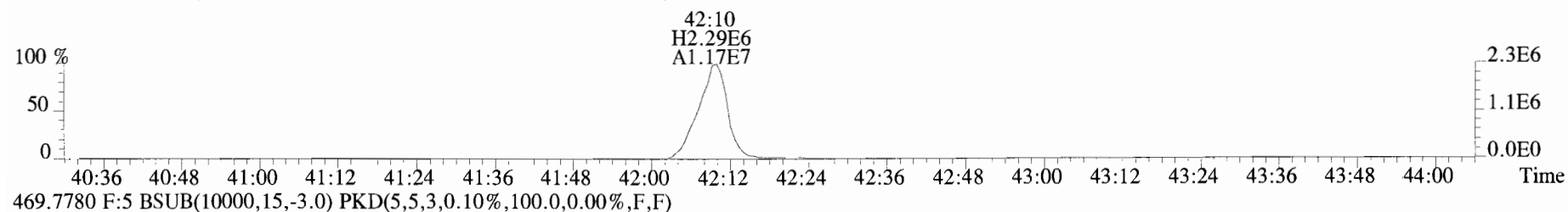
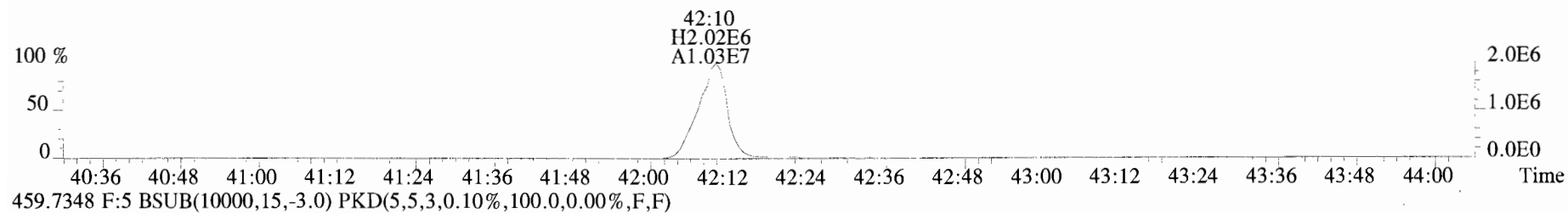
File:140417D1 #1-370 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



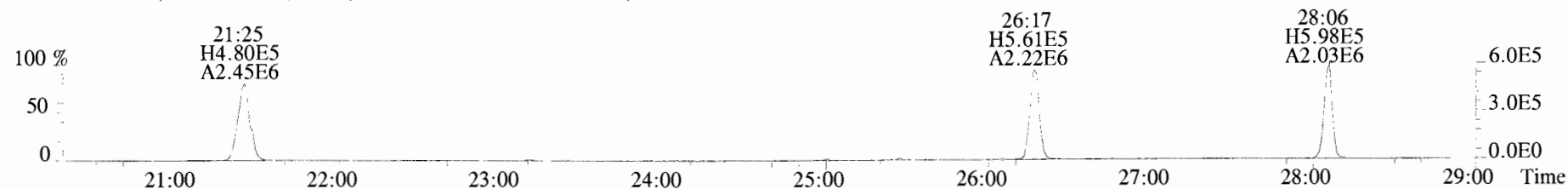
File:140417D1 #1-326 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



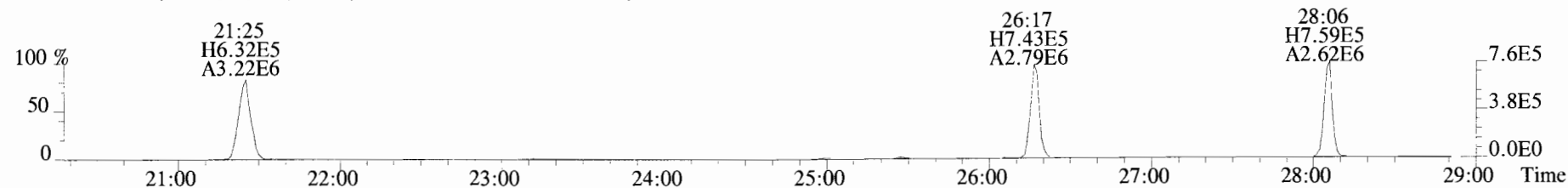
File:140417D1 #1-388 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



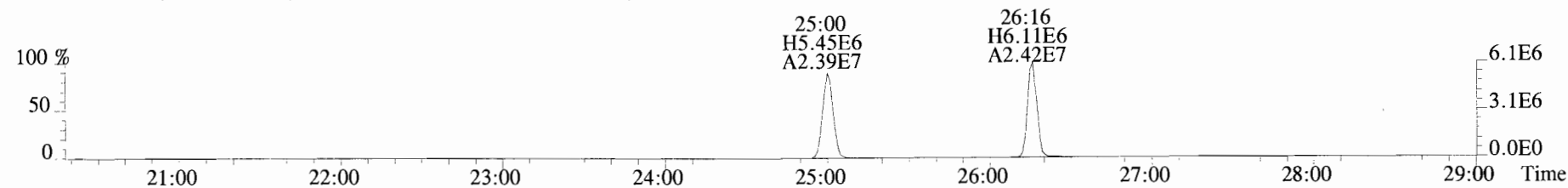
File:140417D1 #1-552 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



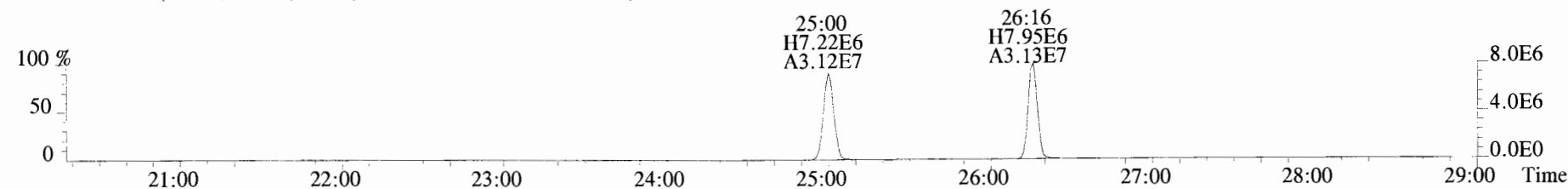
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



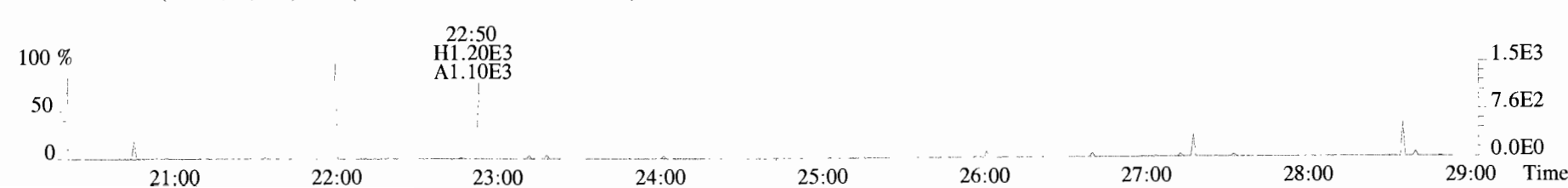
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



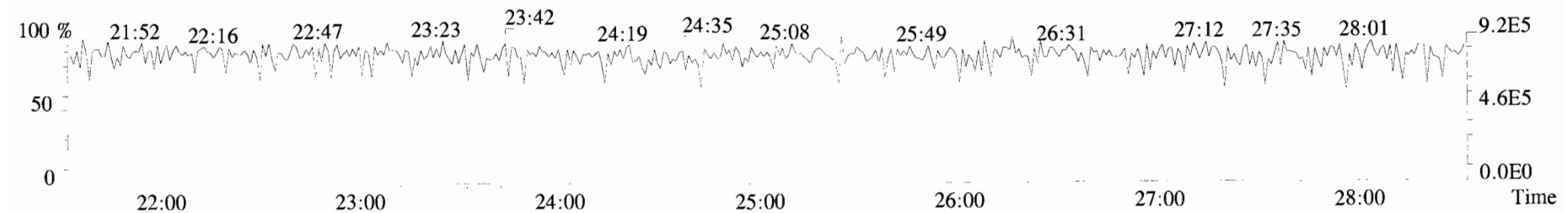
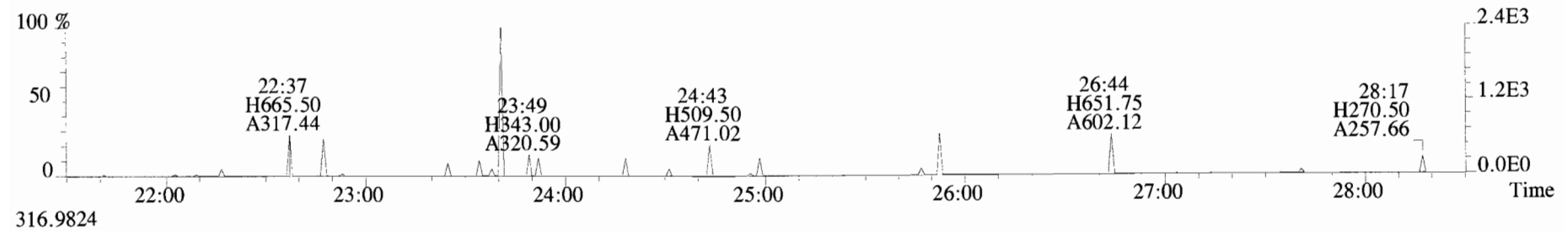
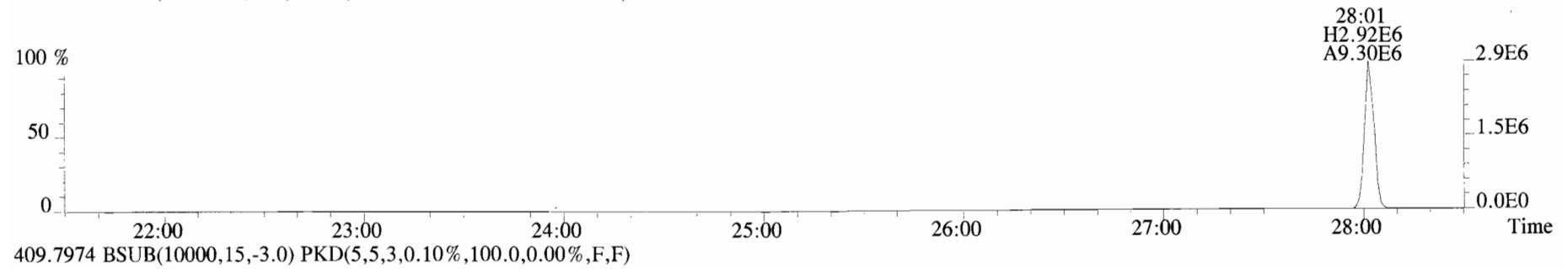
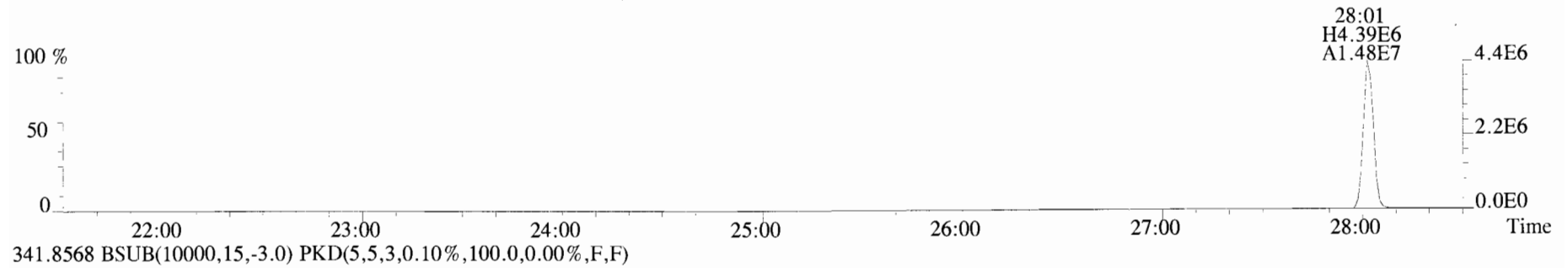
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



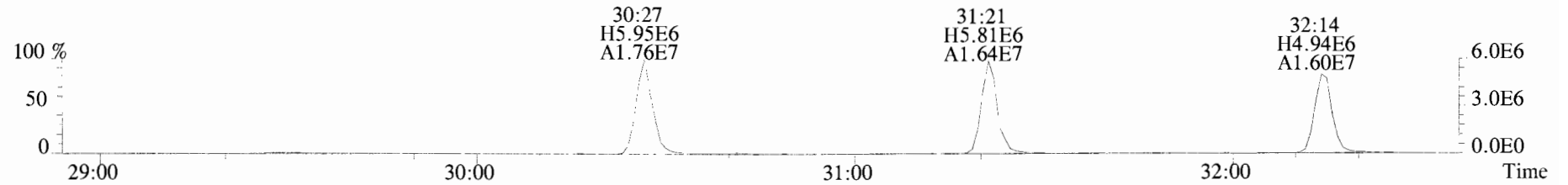
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



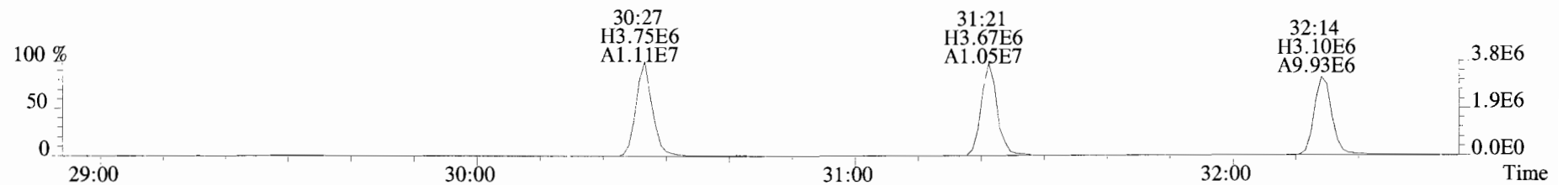
File:140417D1 #1-552 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



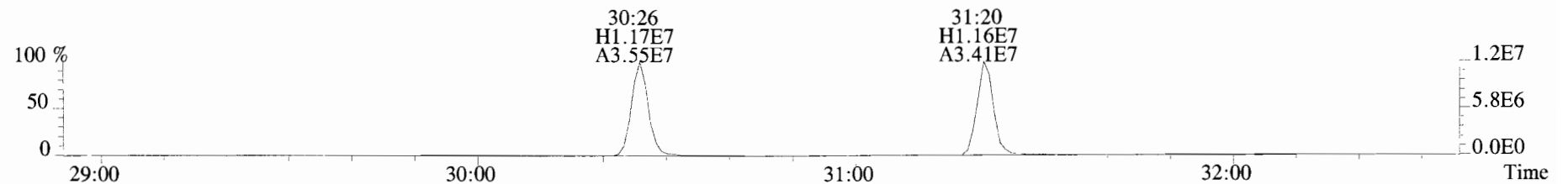
File:140417D1 #1-268 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



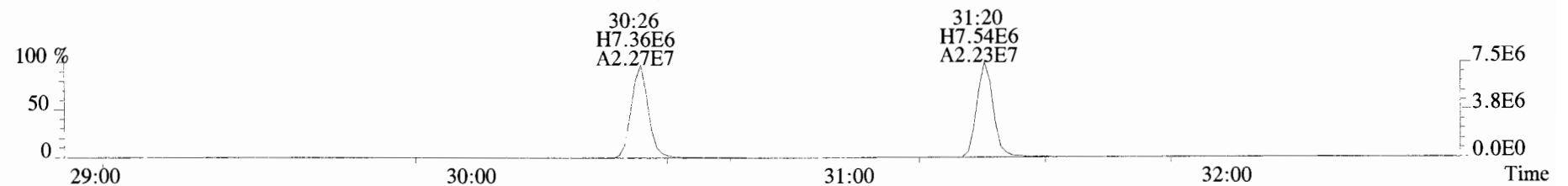
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



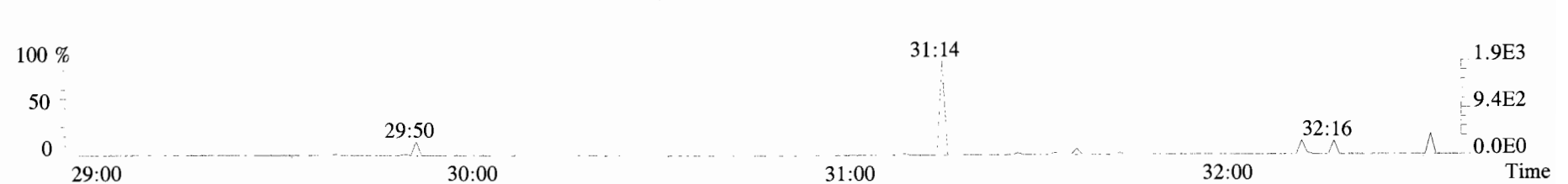
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



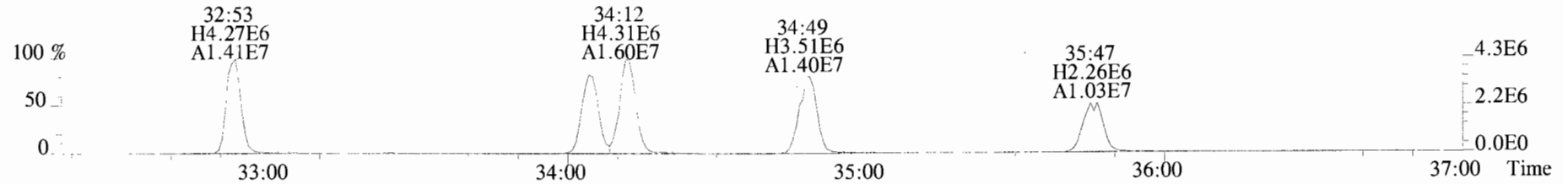
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



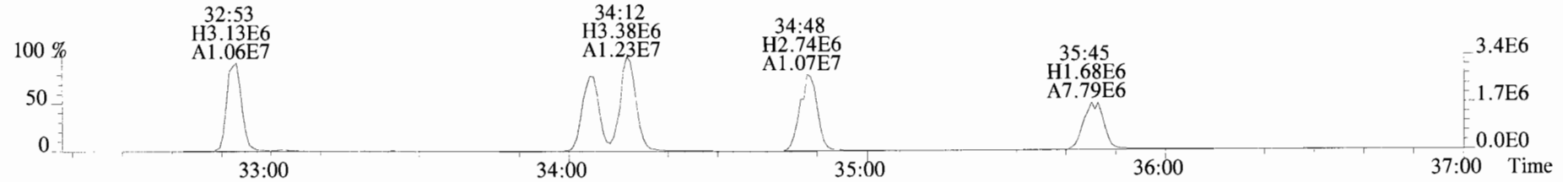
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



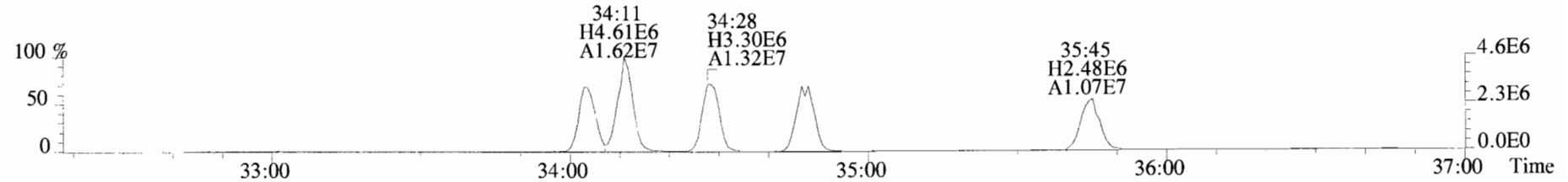
File:140417D1 #1-370 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



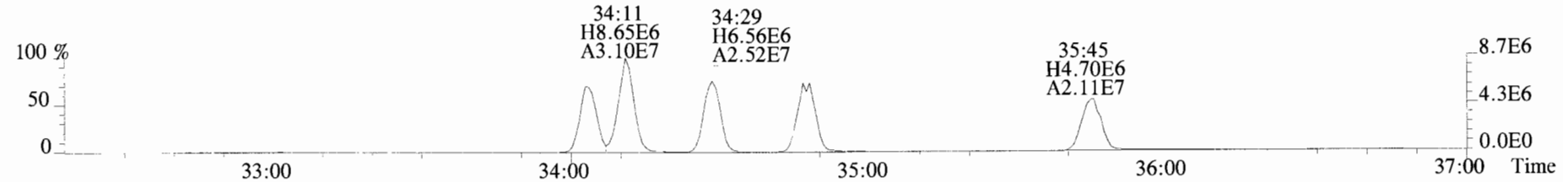
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



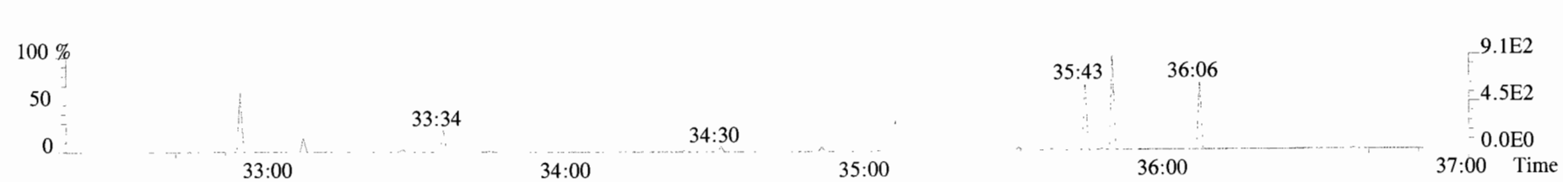
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



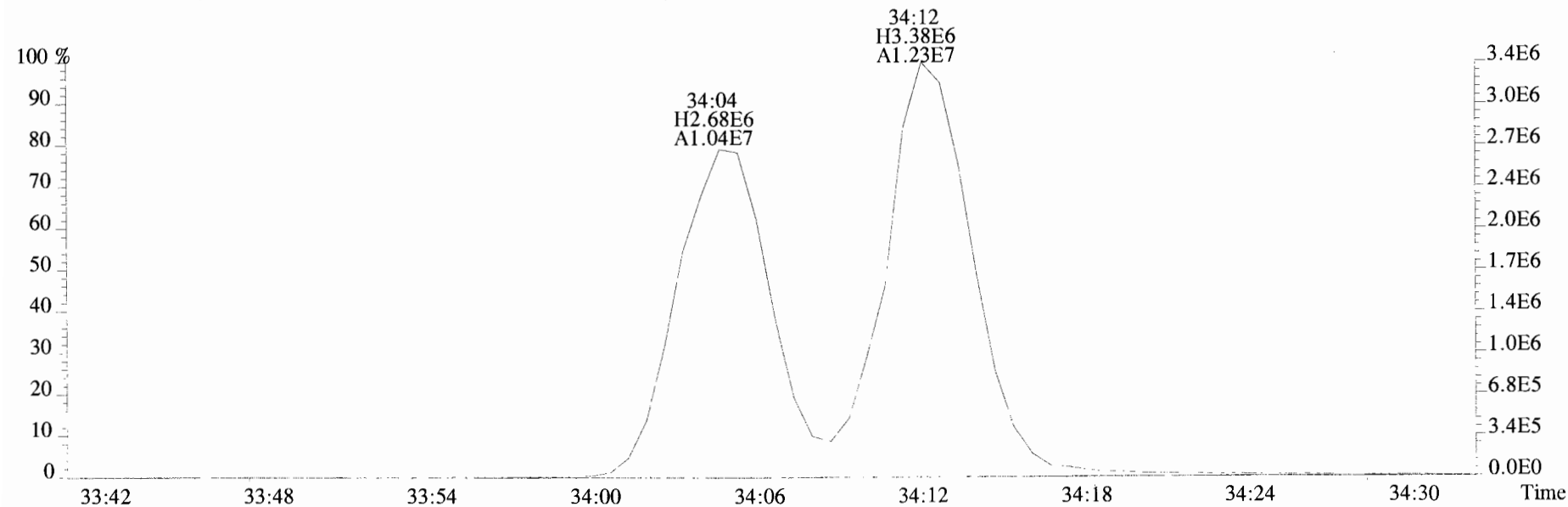
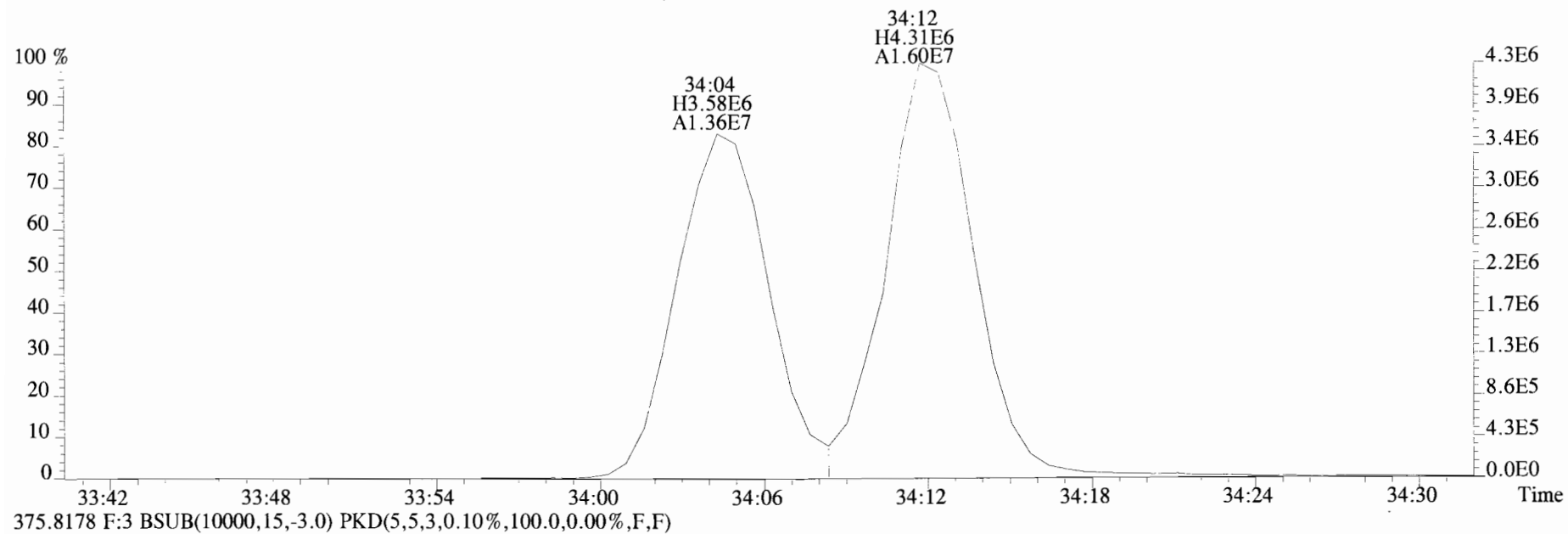
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

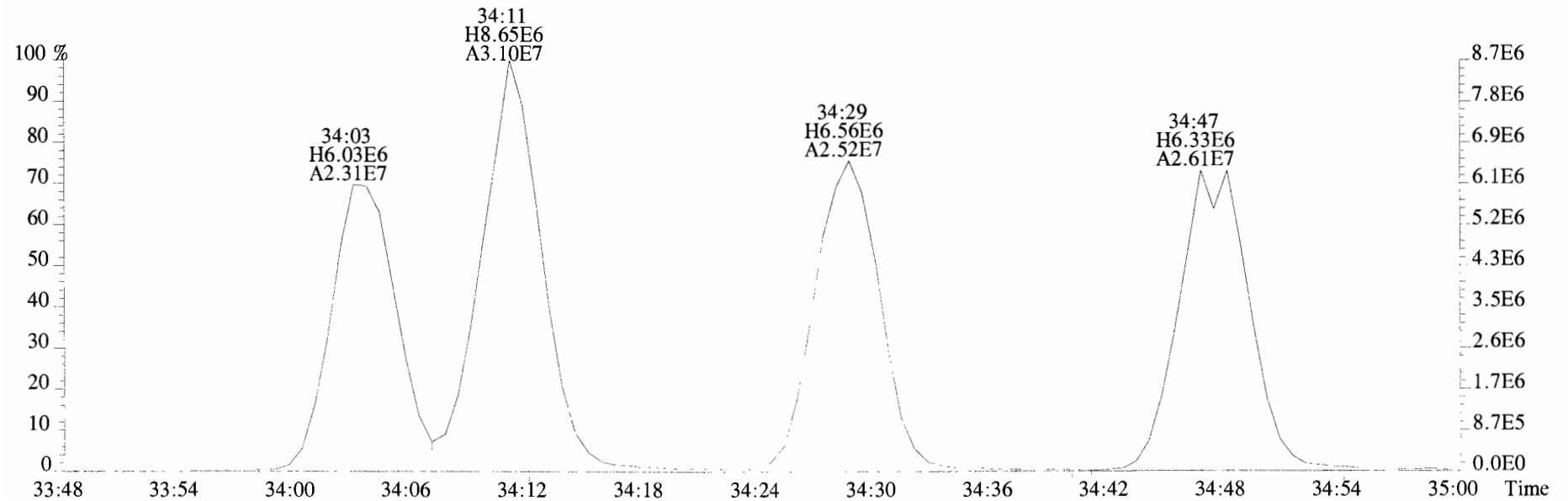
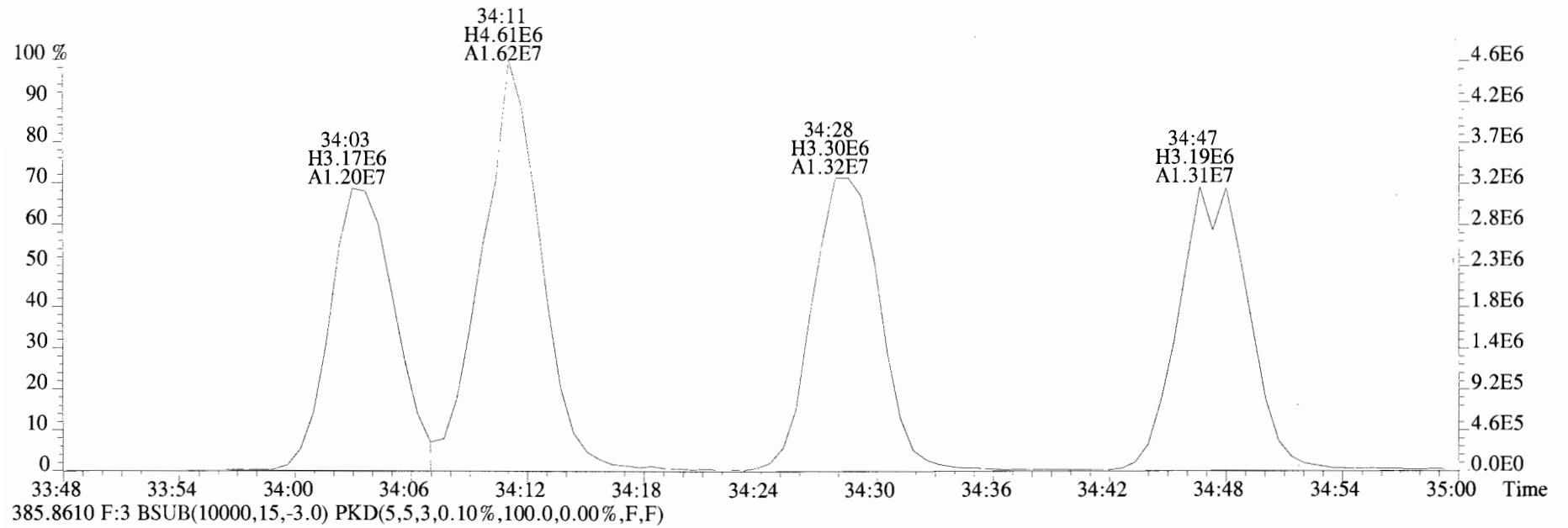


File:140417D1 #1-370 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

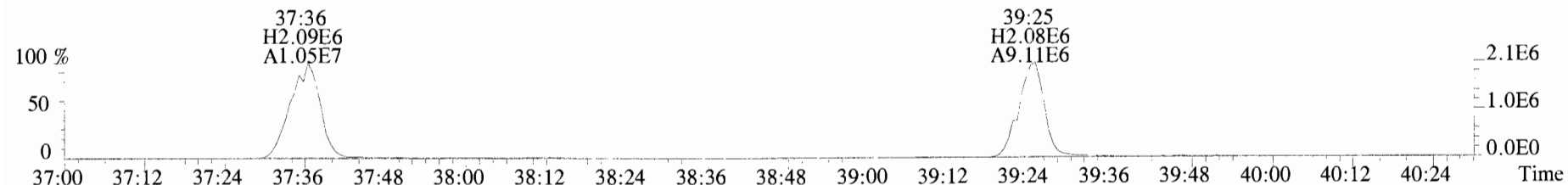




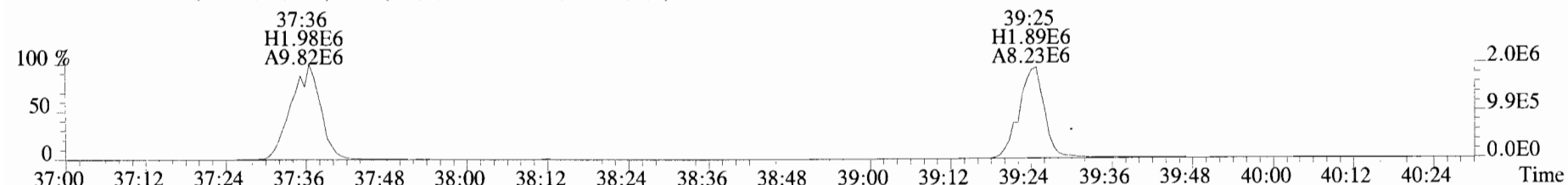
File:140417D1 #1-370 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



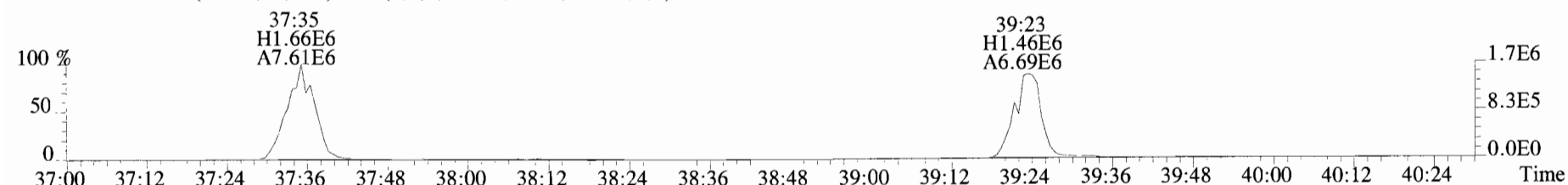
File:140417D1 #1-326 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



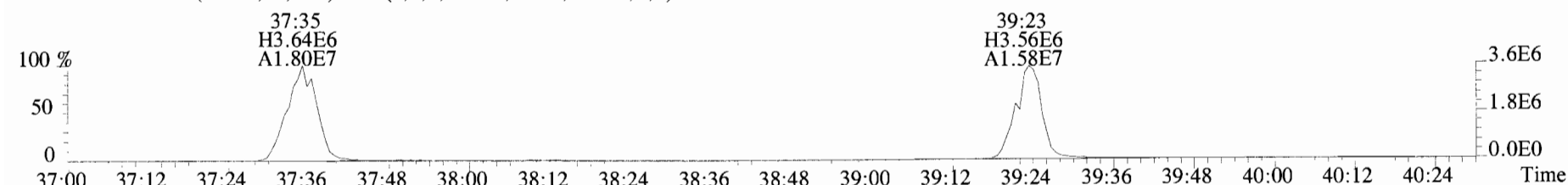
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



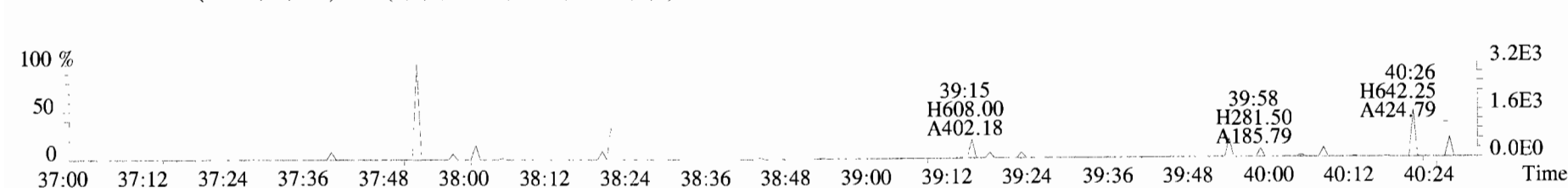
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



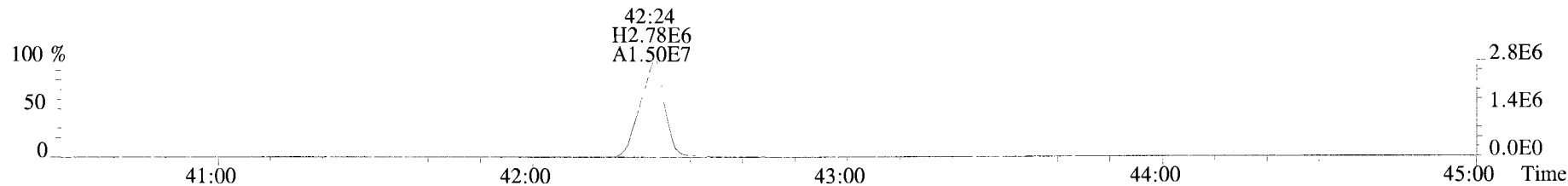
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



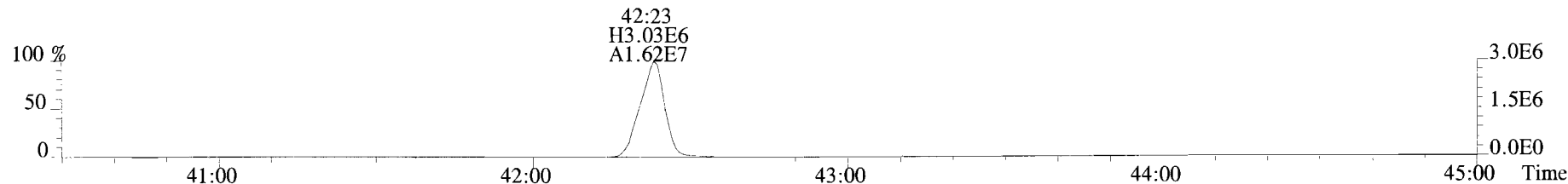
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



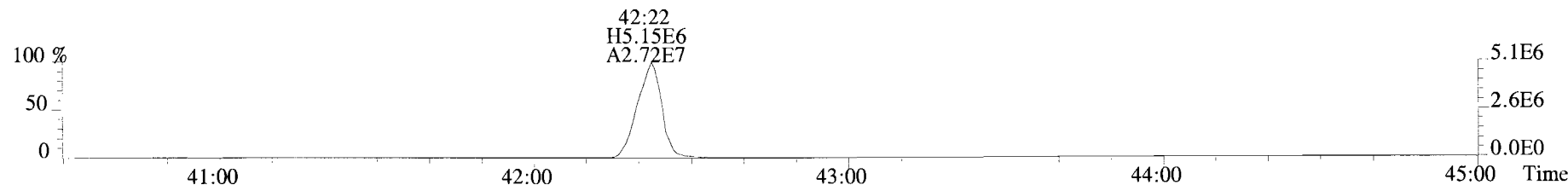
File:140417D1 #1-388 Acq:17-APR-2014 13:06:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-1 1613 CS3 13L1811 Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



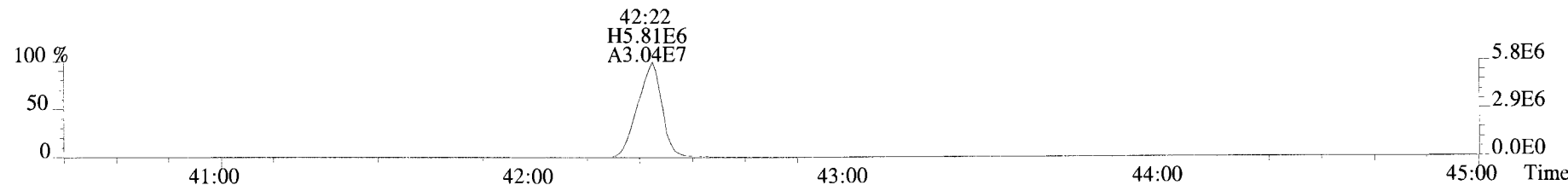
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



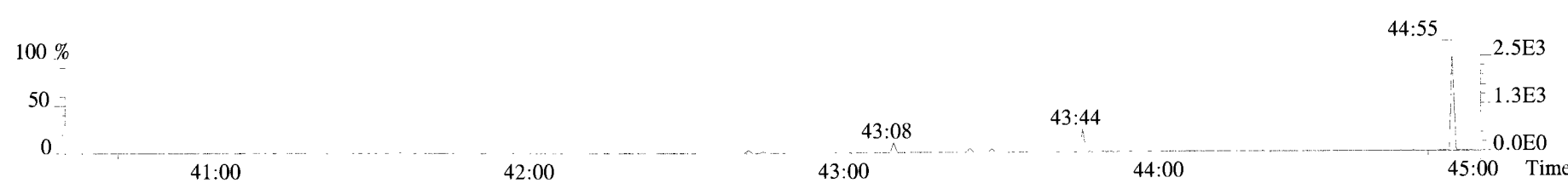
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



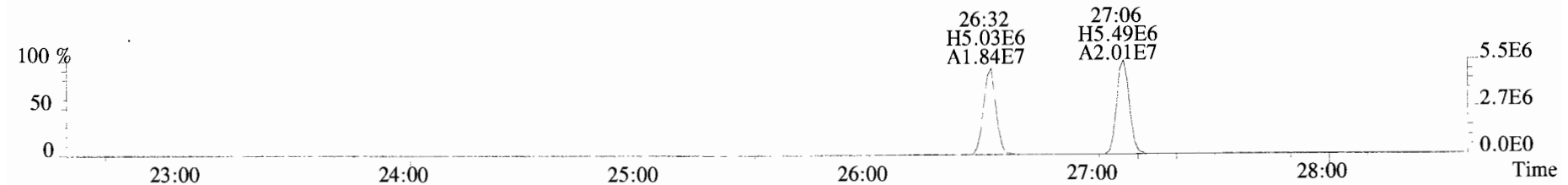
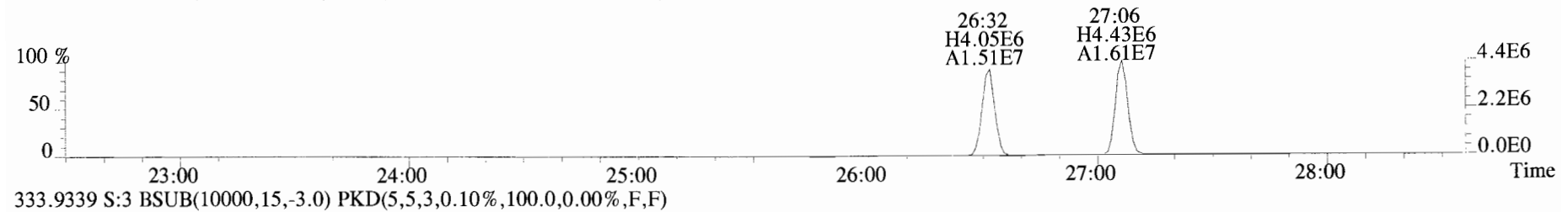
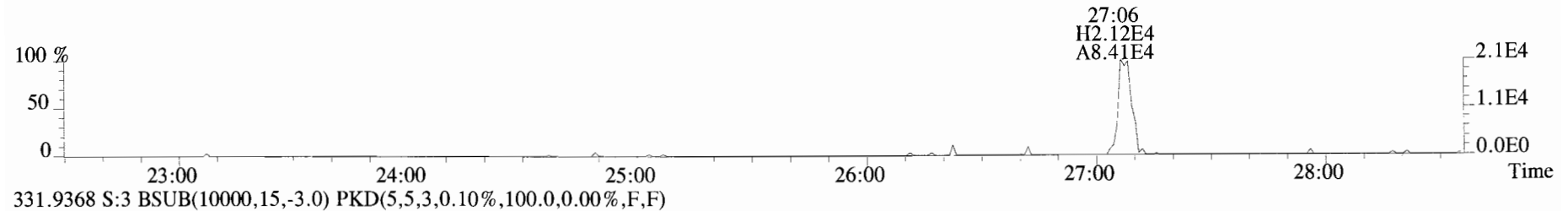
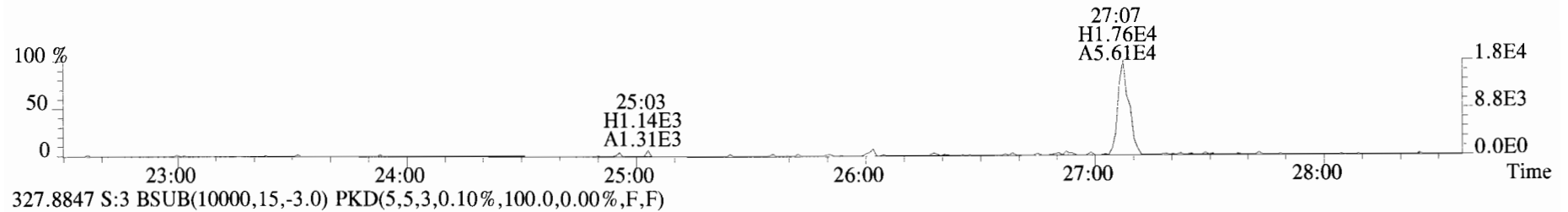
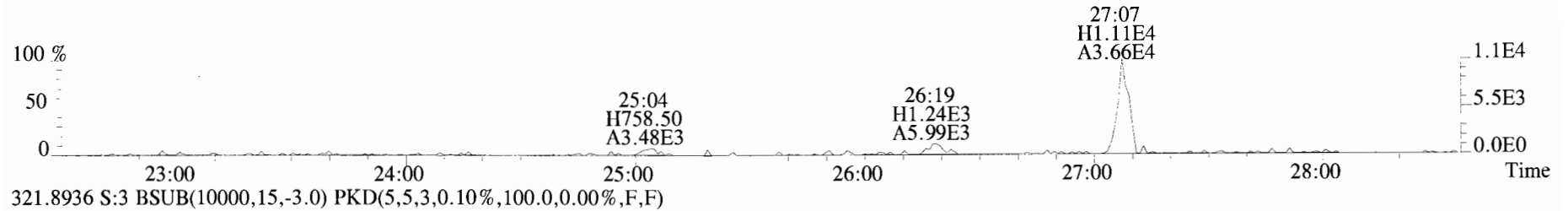
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



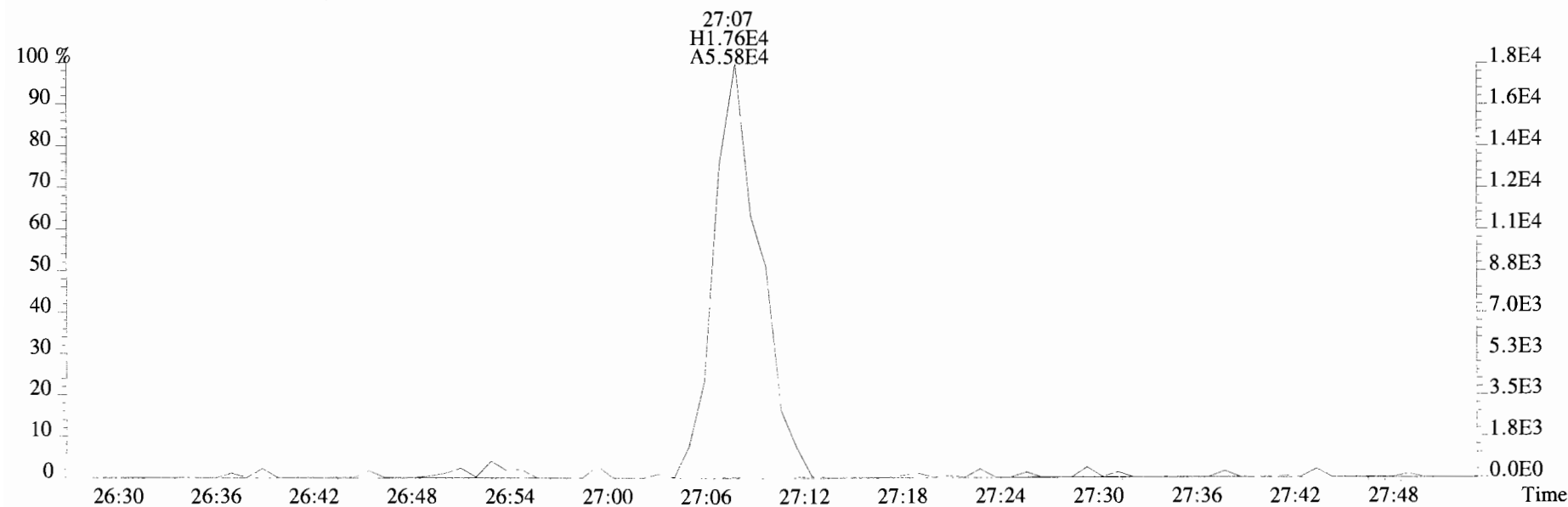
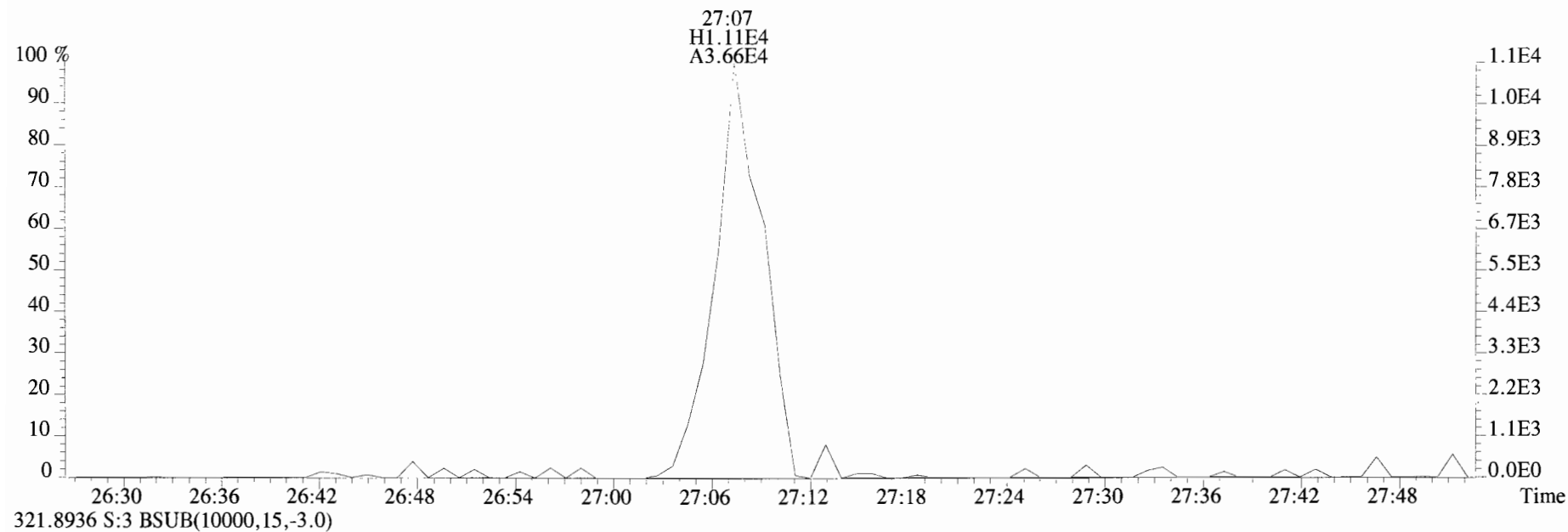
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



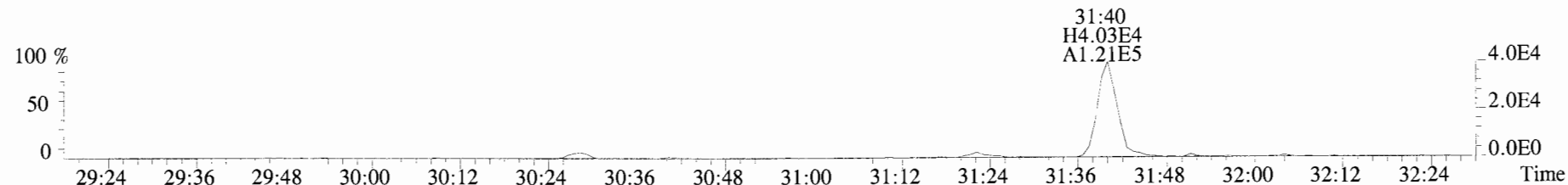
File:140417D1 #1-551 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



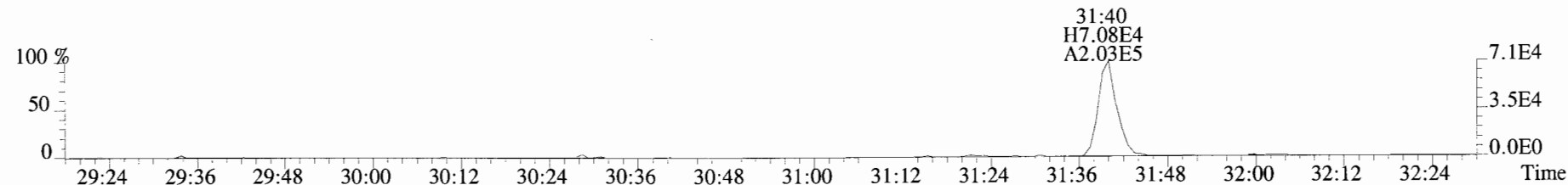
File:140417D1 #1-551 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0)



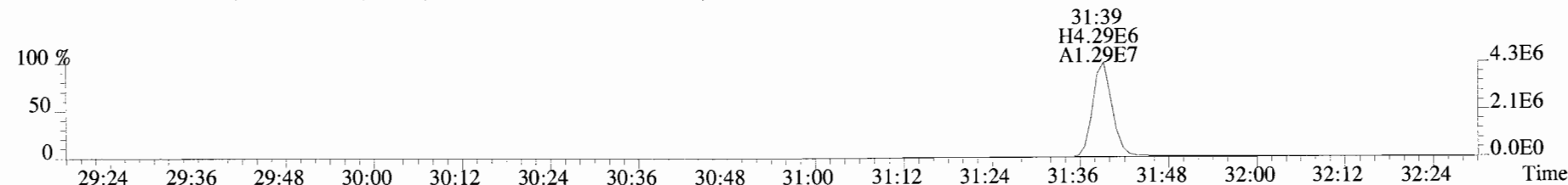
File:140417D1 #1-269 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



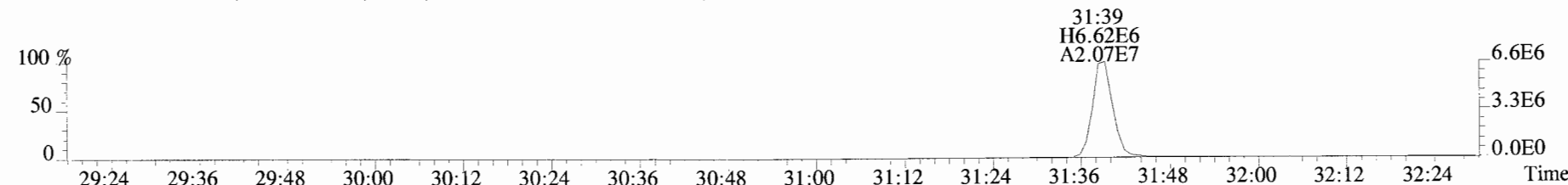
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



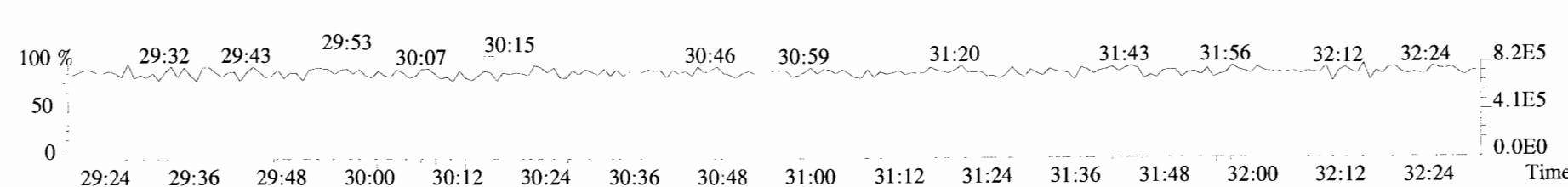
365.8978 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



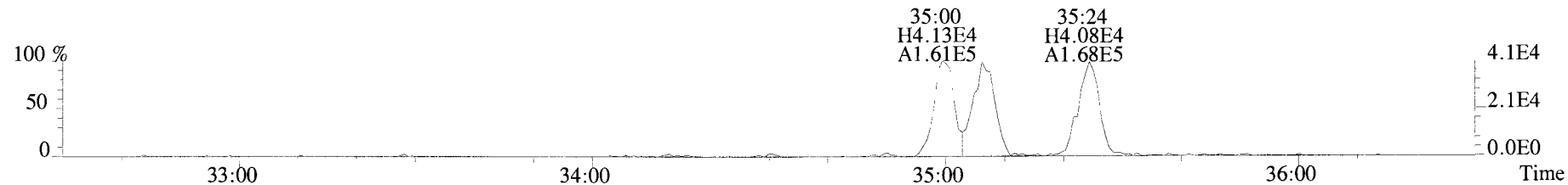
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



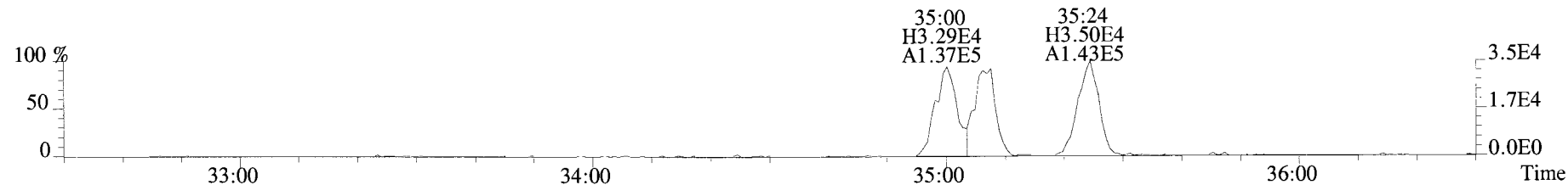
366.9792 S:3 F:2



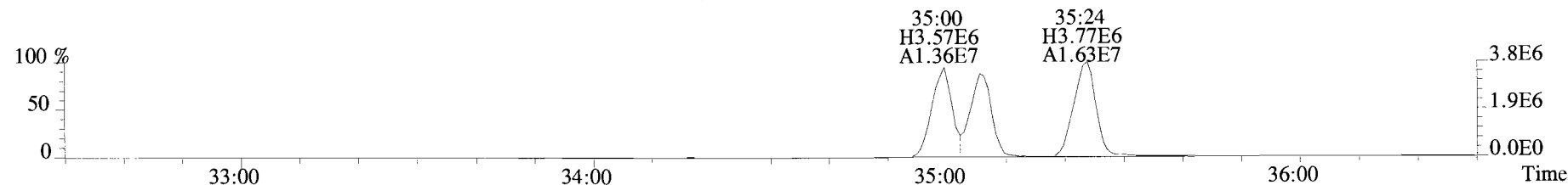
File:140417D1 #1-370 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



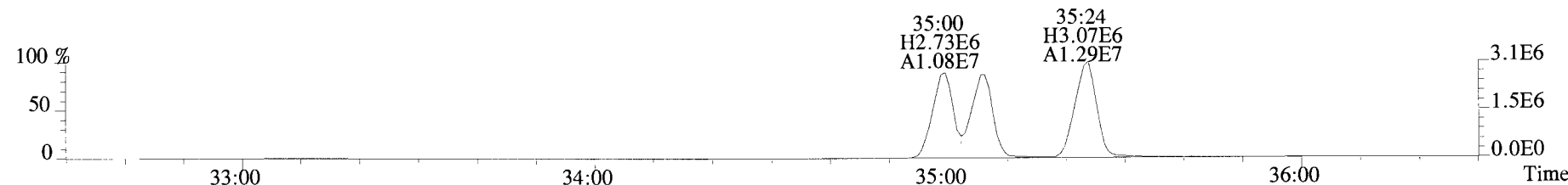
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



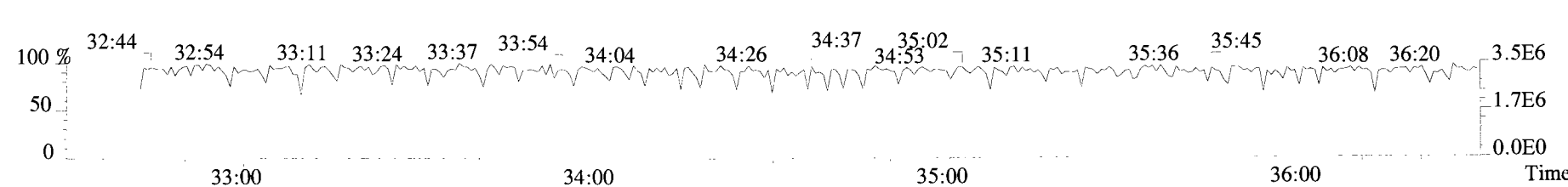
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



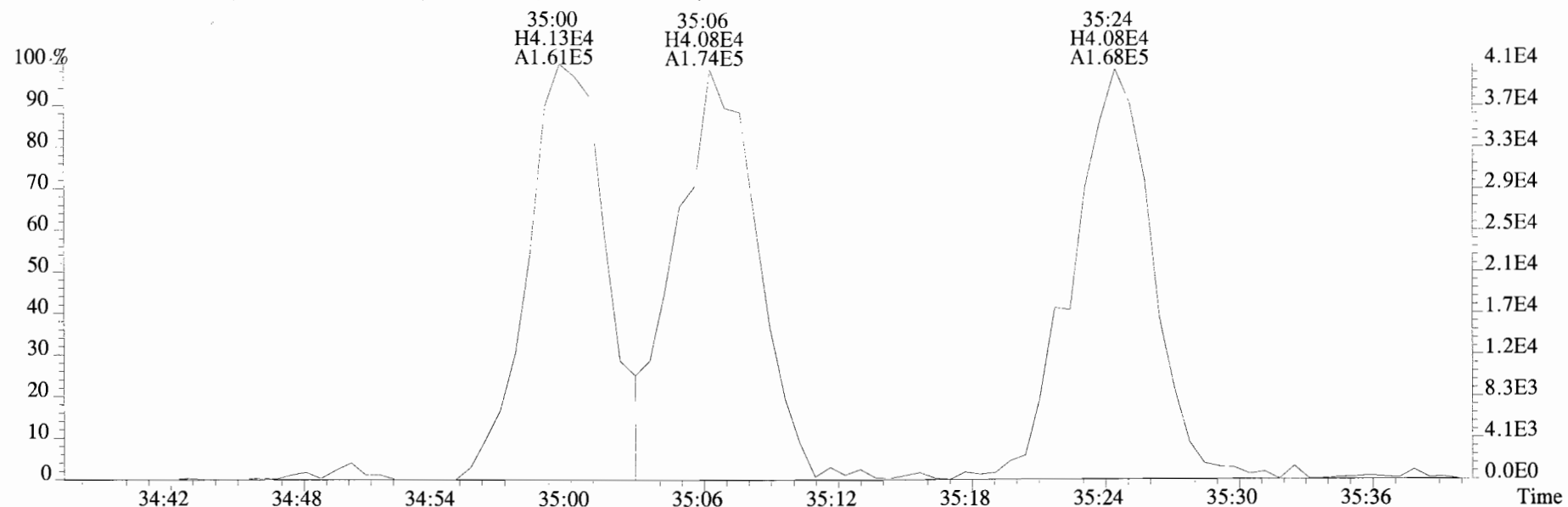
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



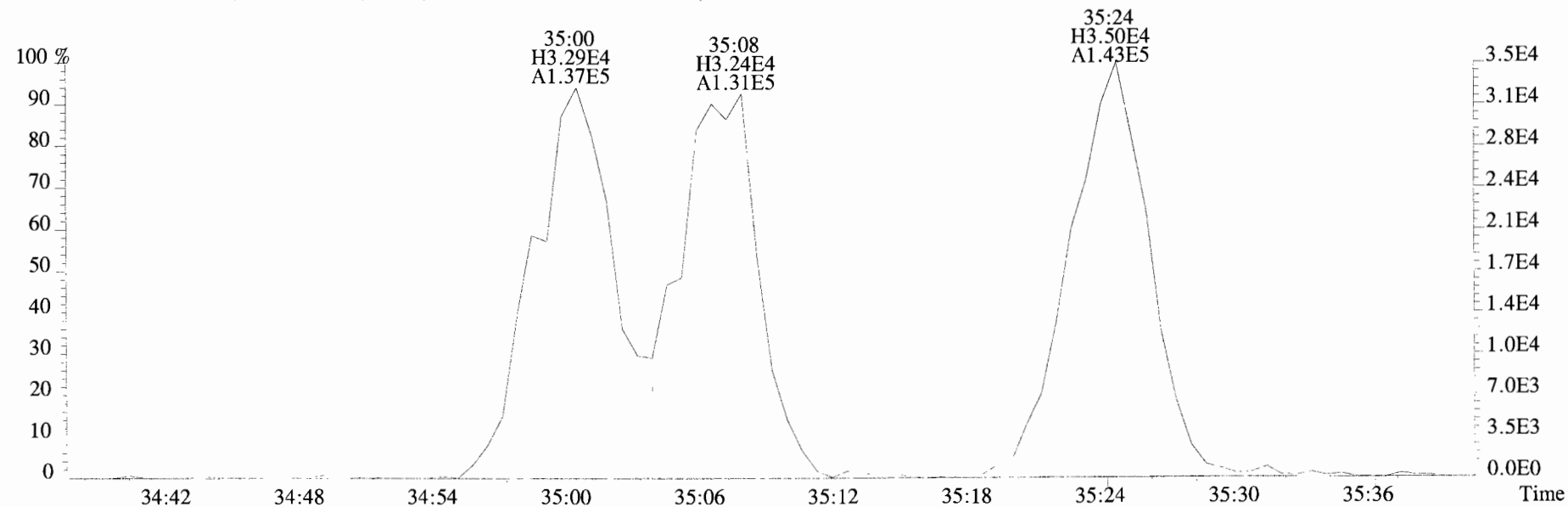
380.9760 S:3 F:3



File:140417D1 #1-370 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

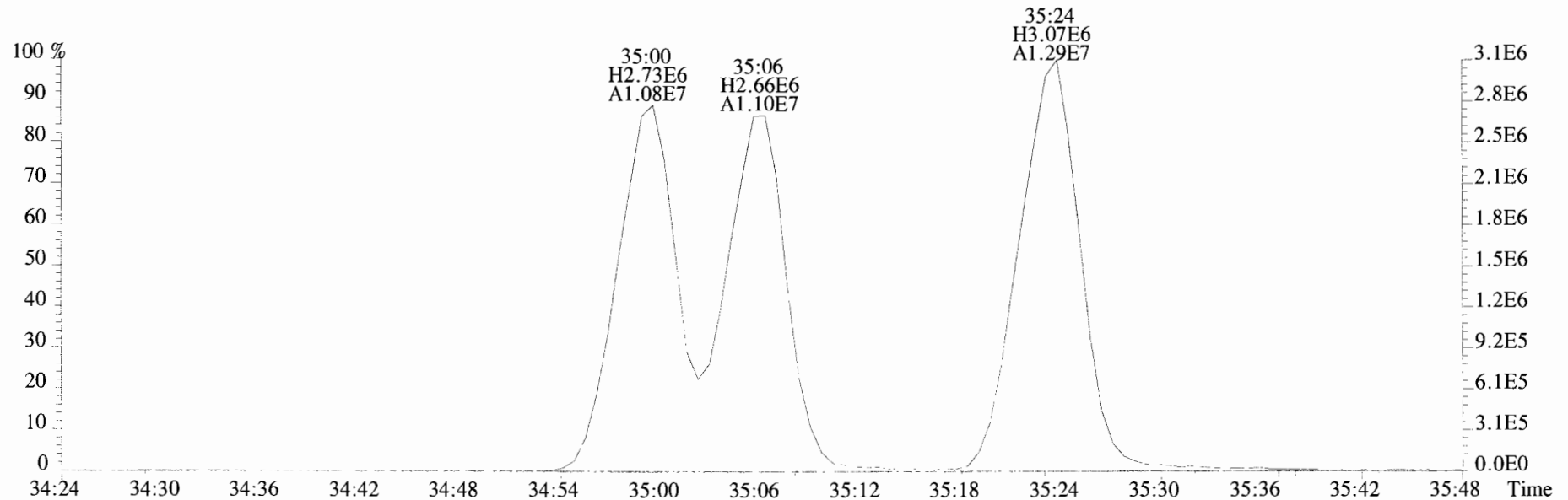
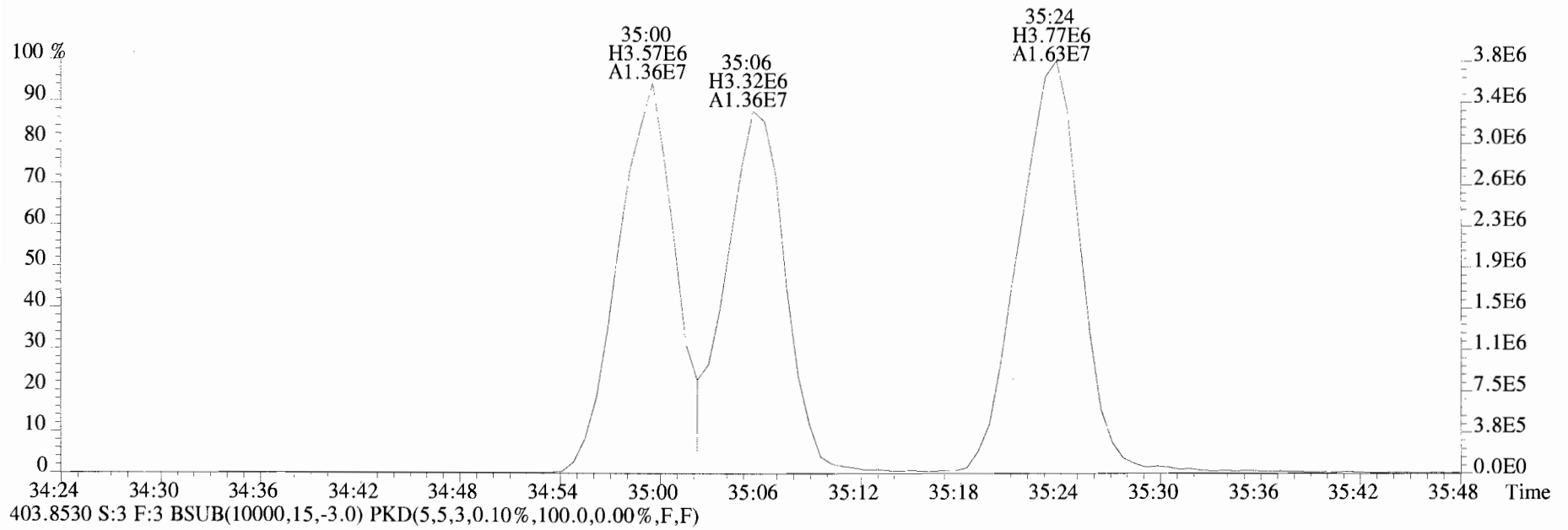


391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

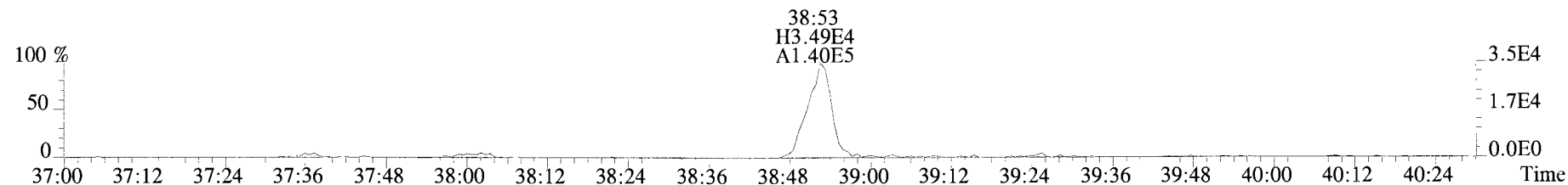




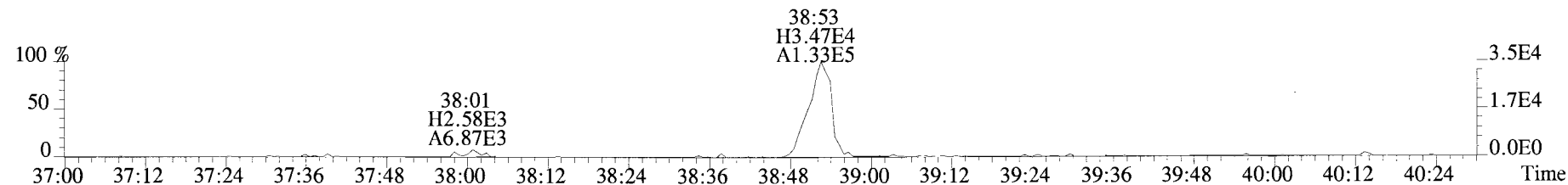
File:140417D1 #1-370 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



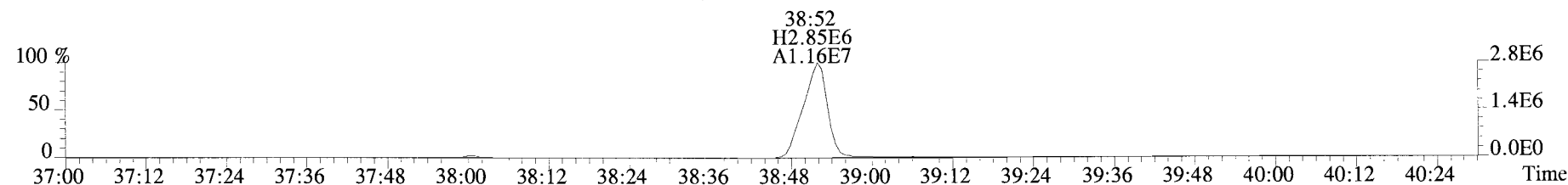
File:140417D1 #1-325 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



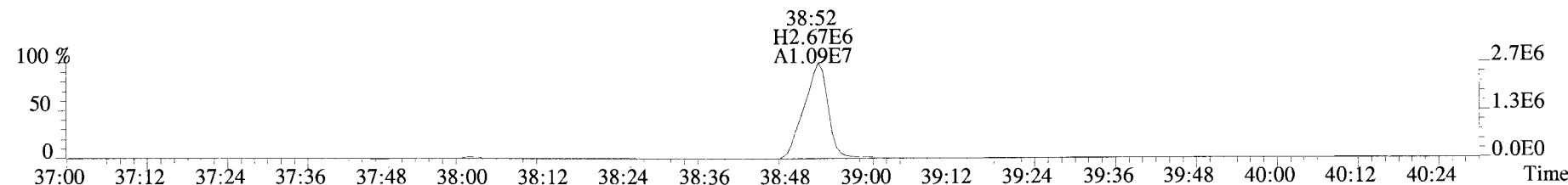
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



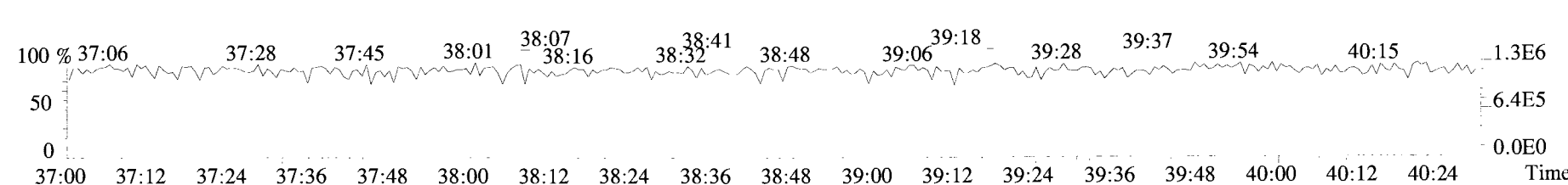
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



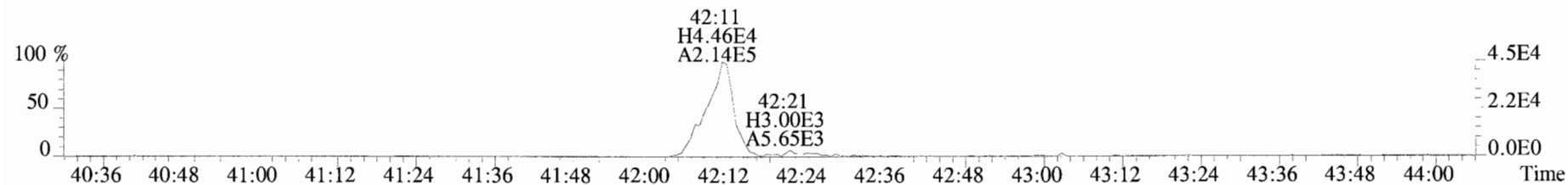
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



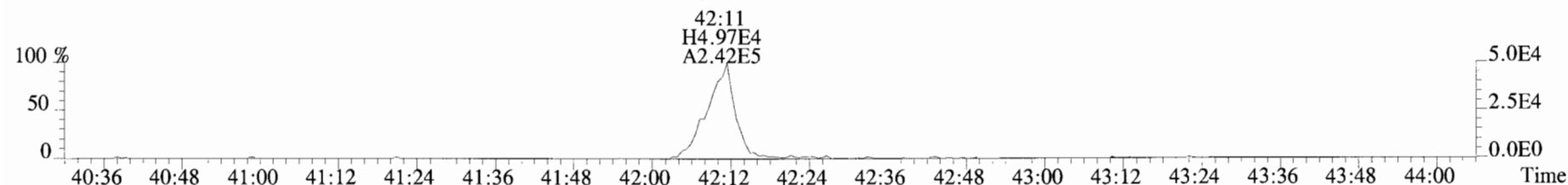
430.9728 S:3 F:4



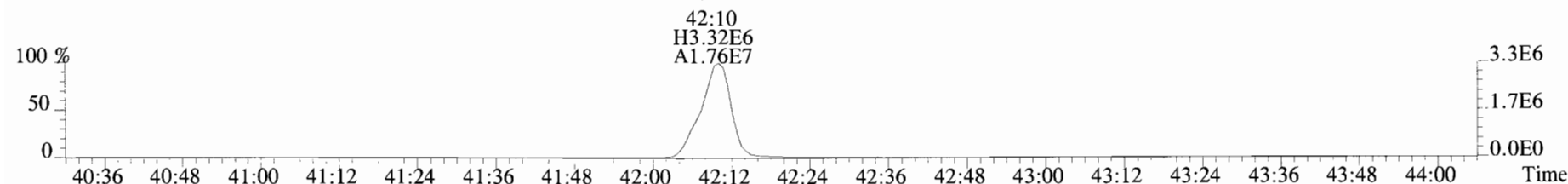
File:140417D1 #1-389 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



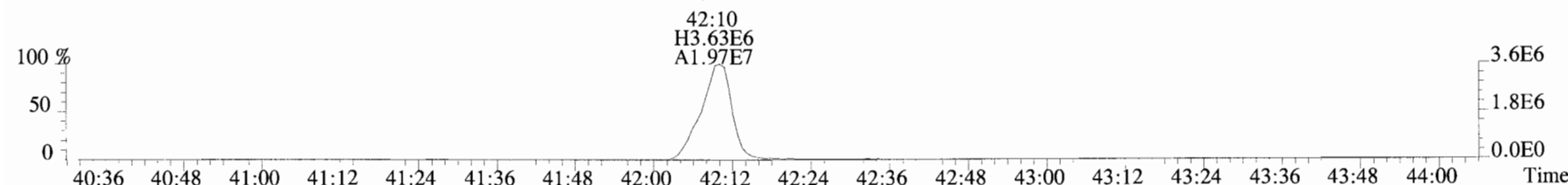
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



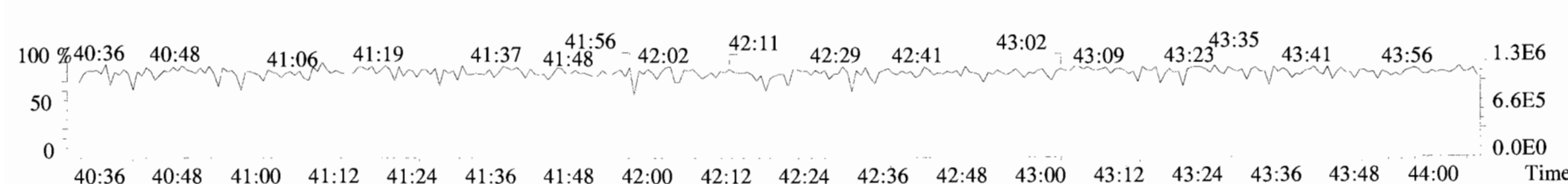
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



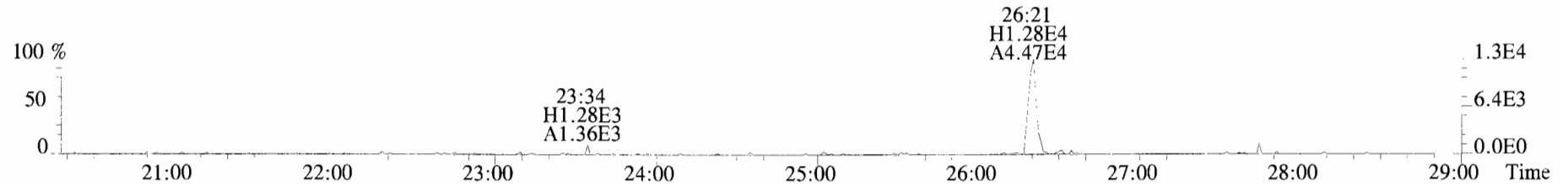
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



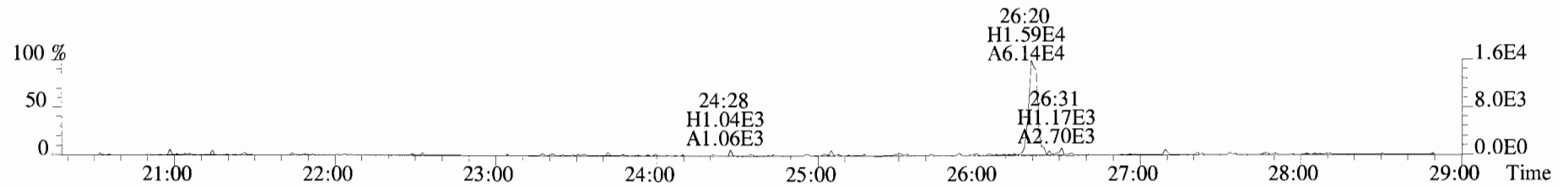
454.9728 S:3 F:5



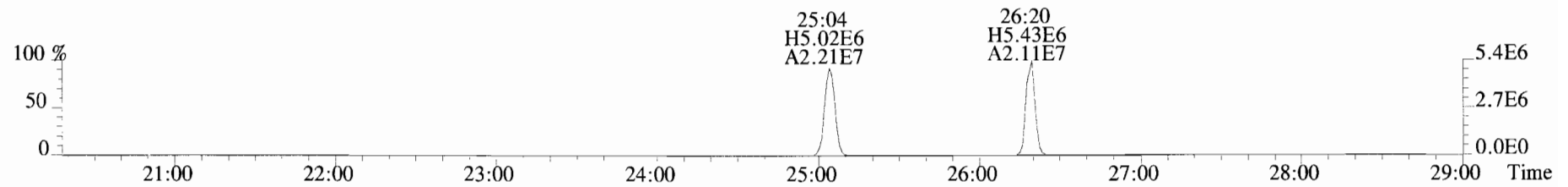
File:140417D1 #1-551 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



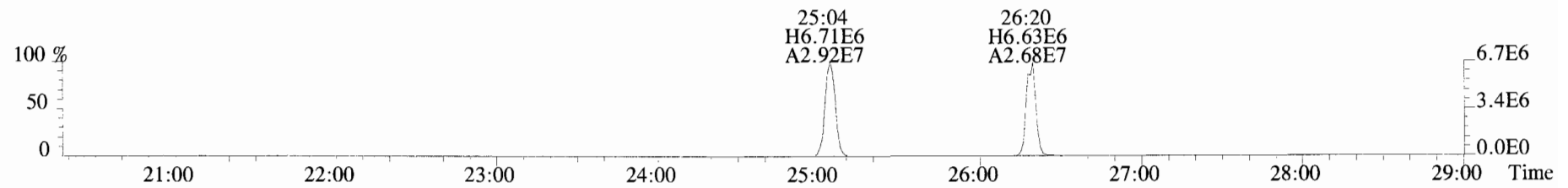
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



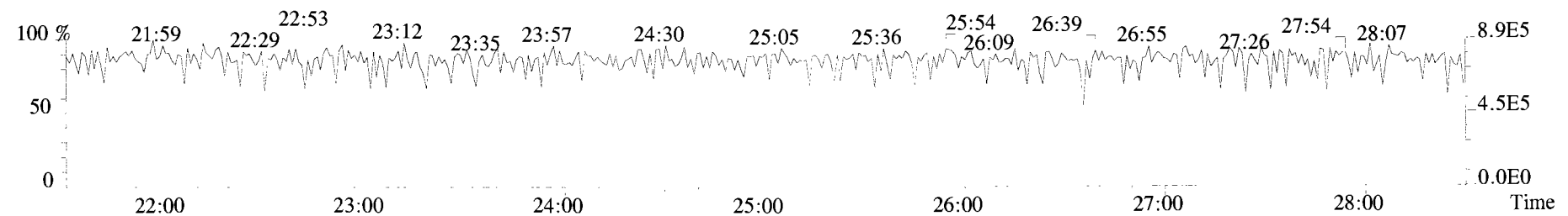
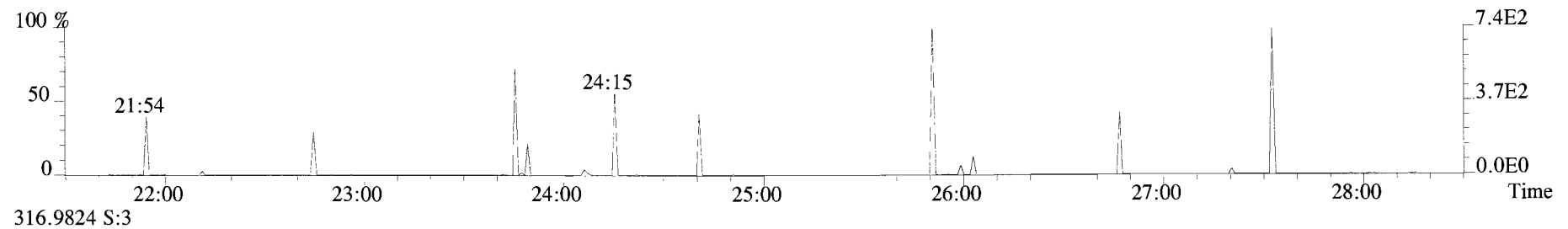
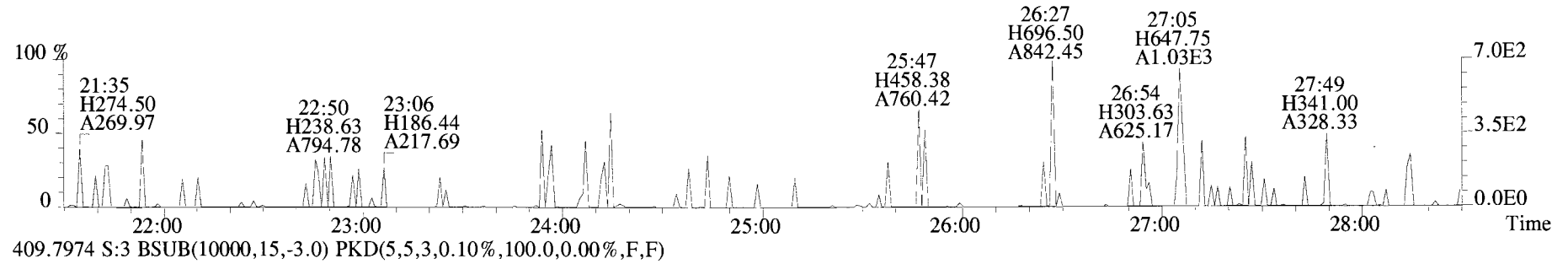
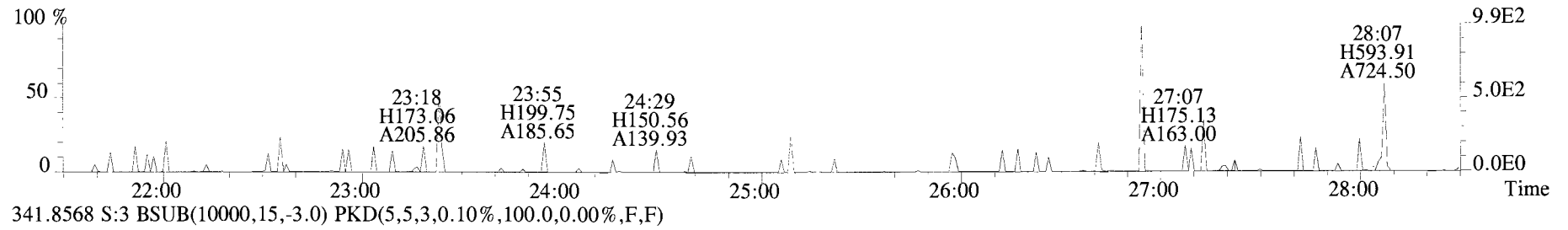
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



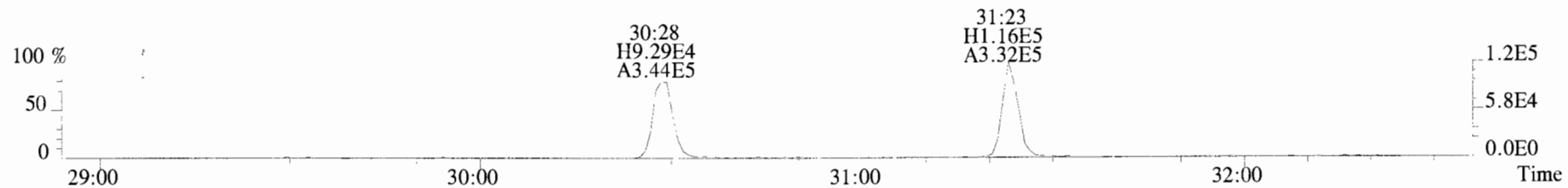
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



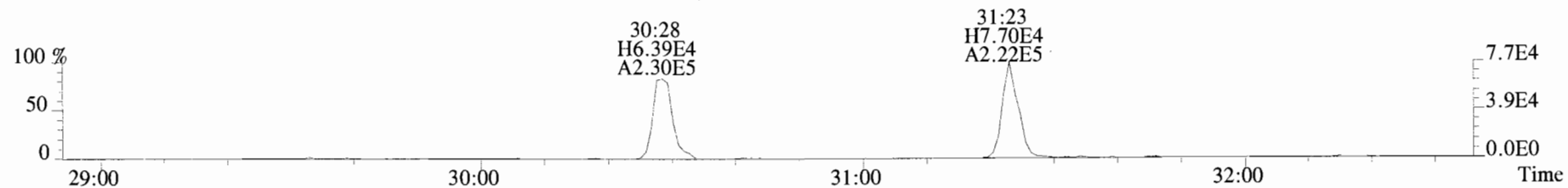
File:140417D1 #1-551 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



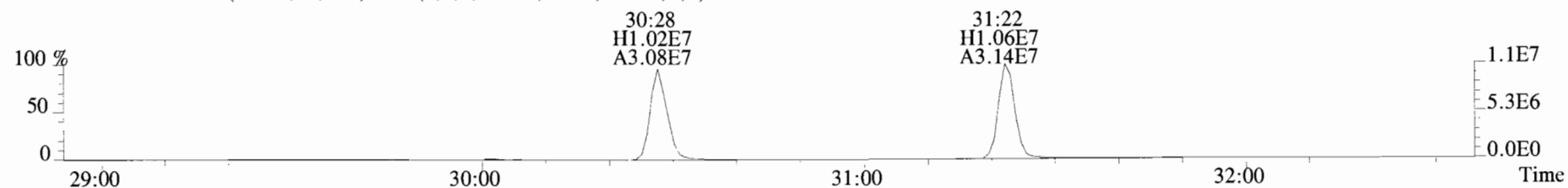
File:140417D1 #1-269 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



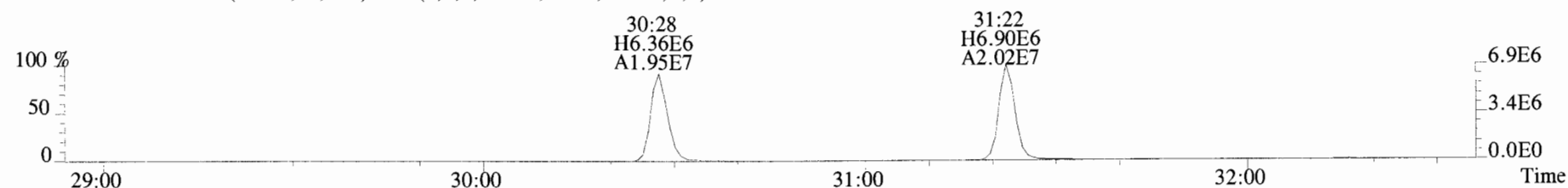
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



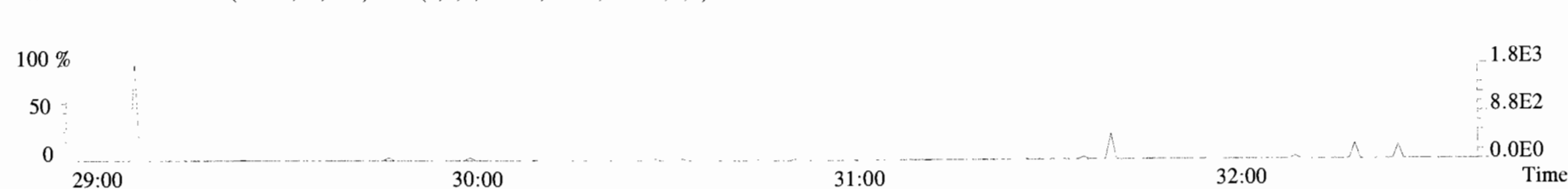
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



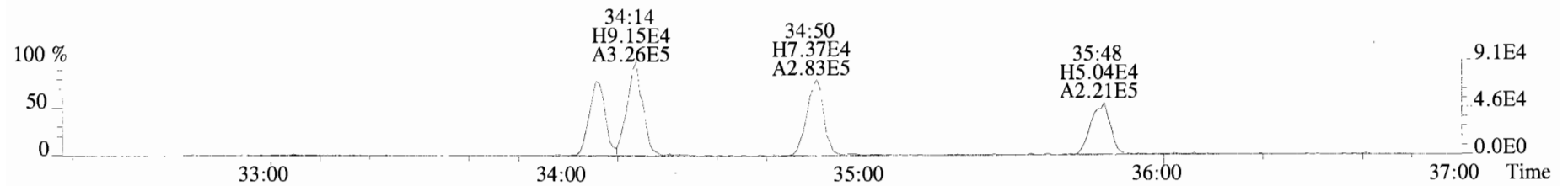
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



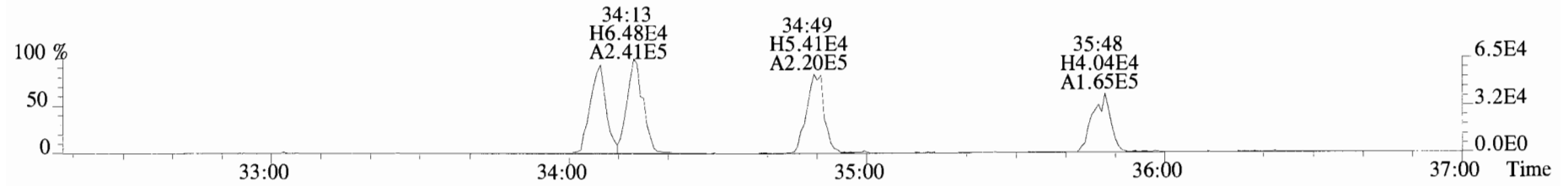
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



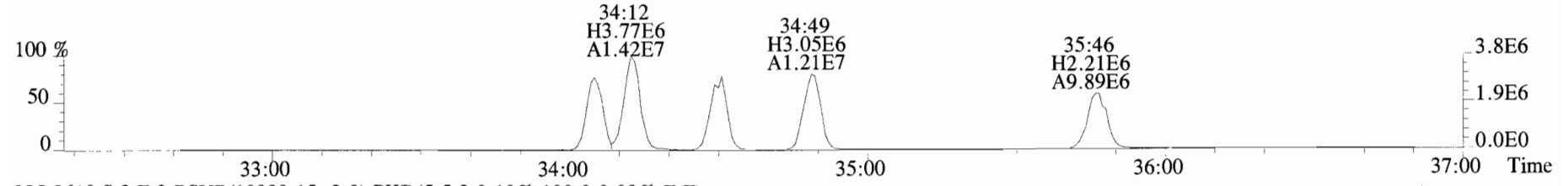
File:140417D1 #1-370 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



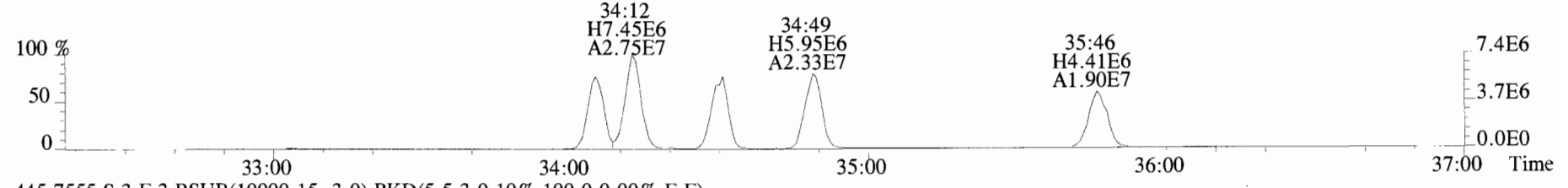
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



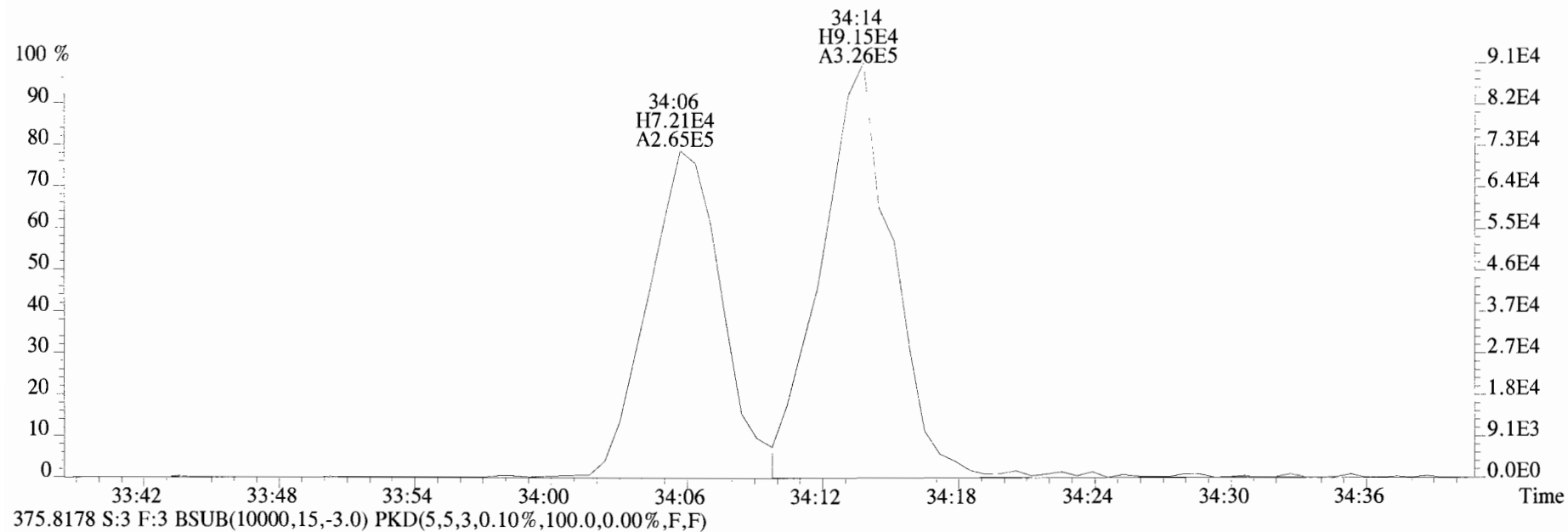
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



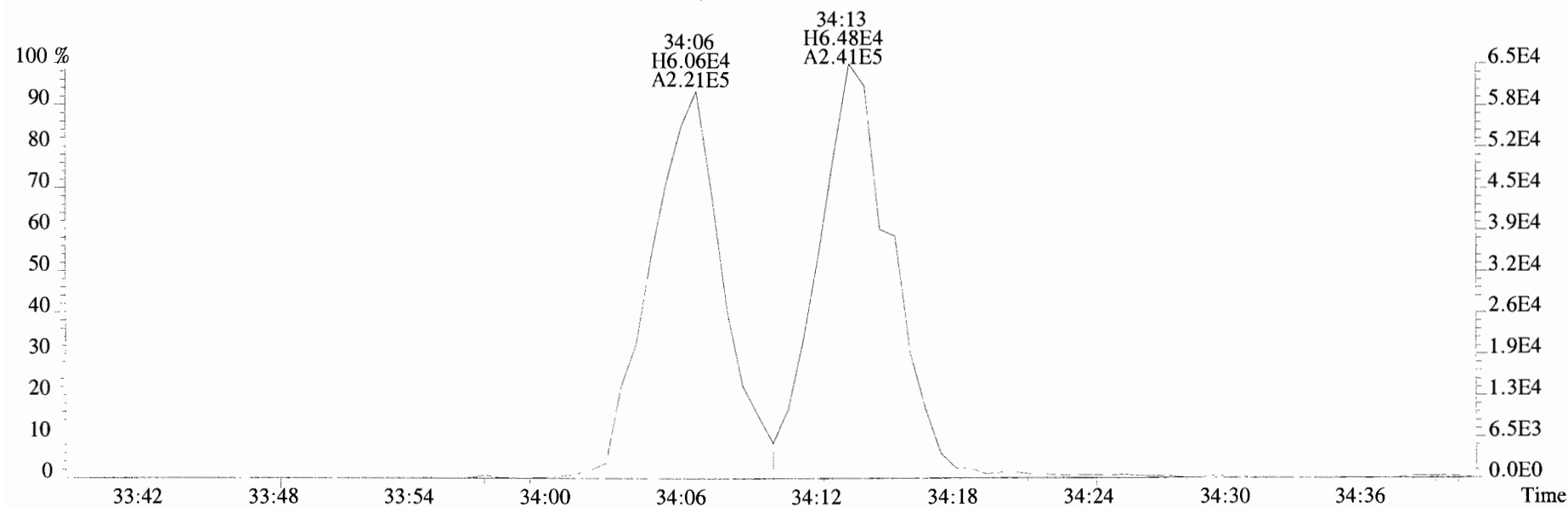
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140417D1 #1-370 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

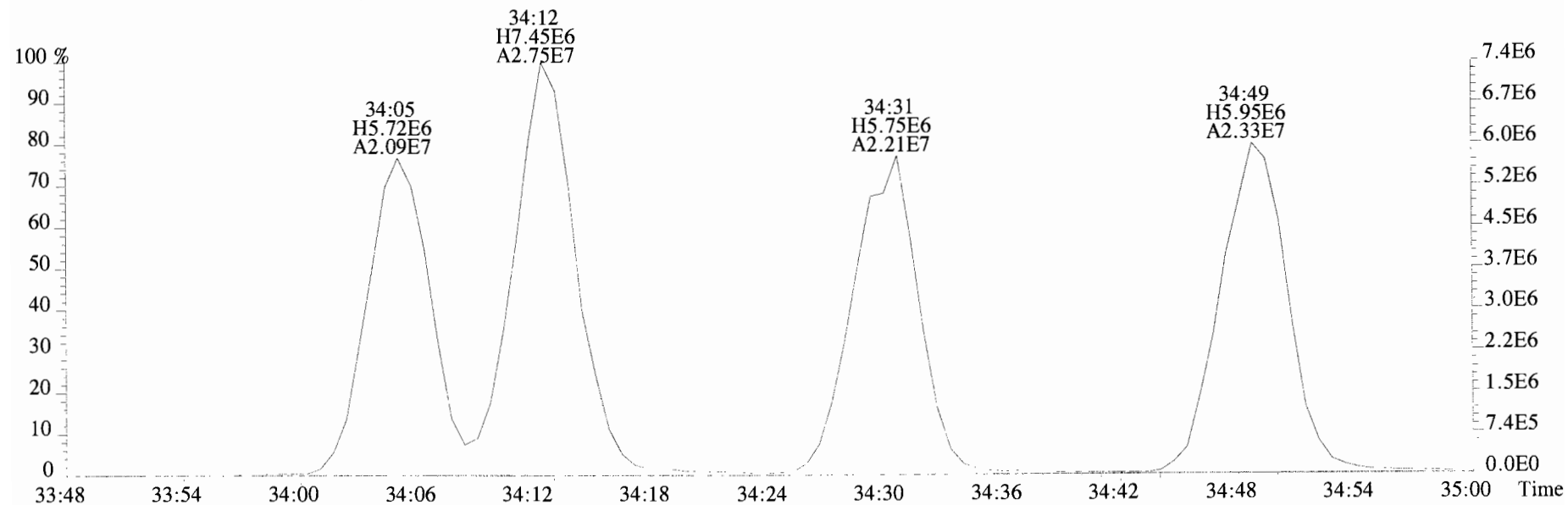
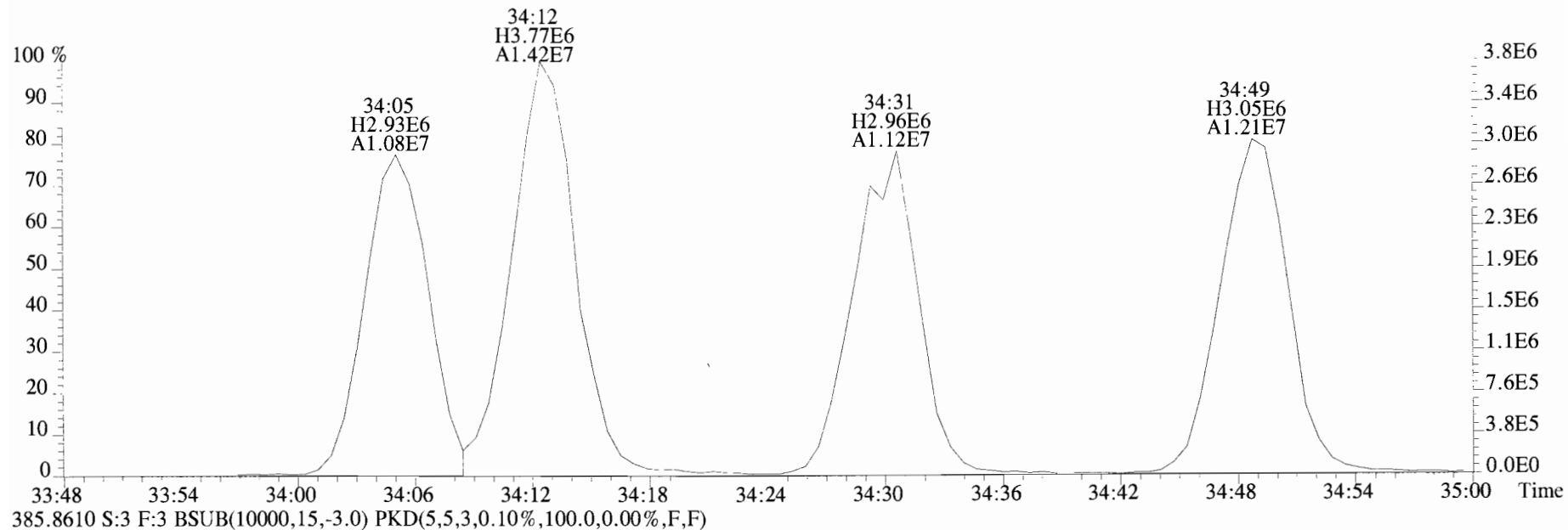


375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

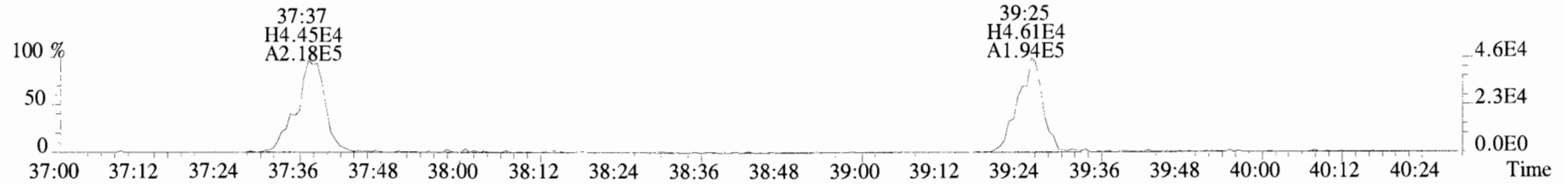




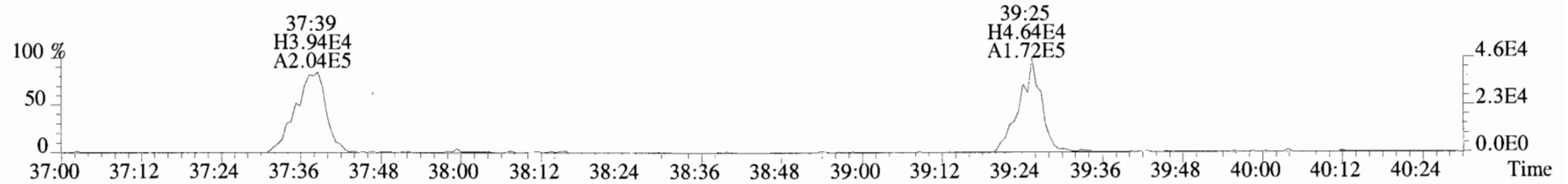
File:140417D1 #1-370 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



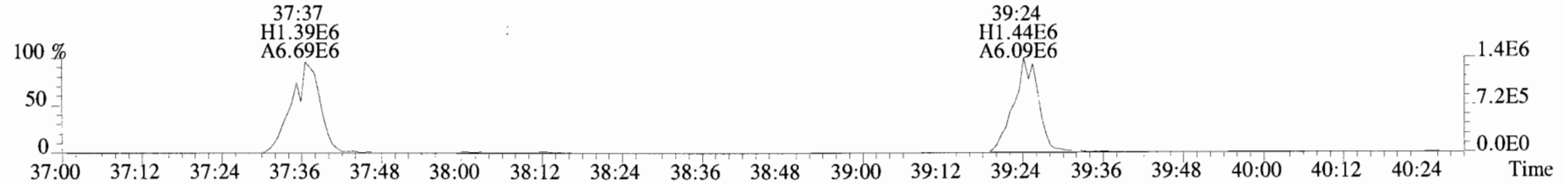
File:140417D1 #1-325 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



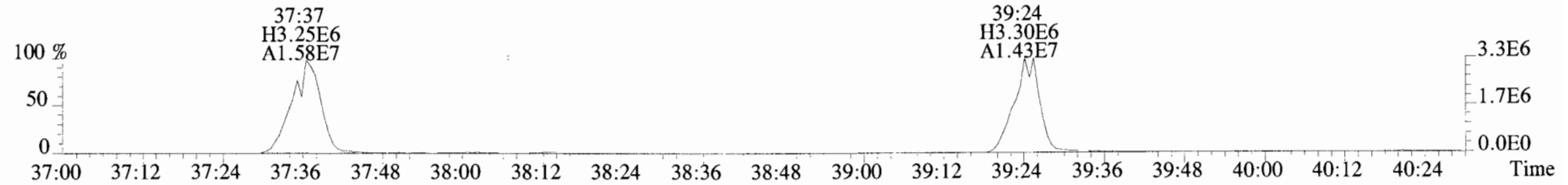
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



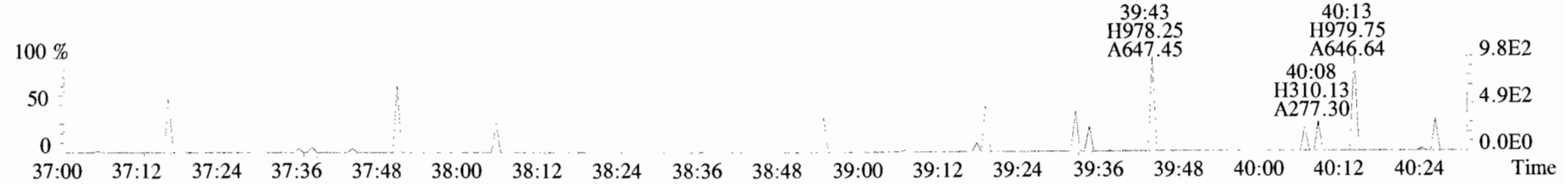
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



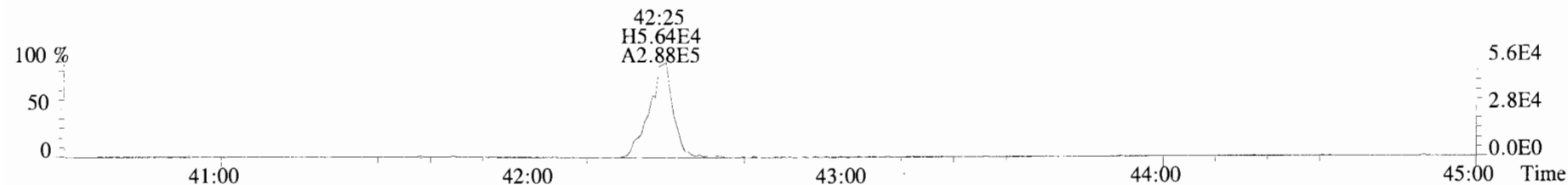
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



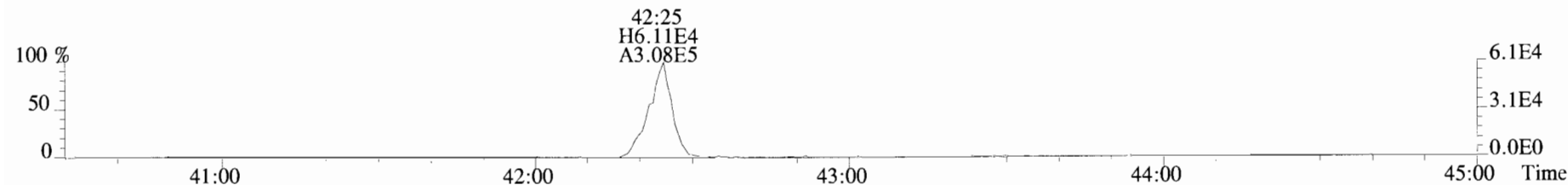
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



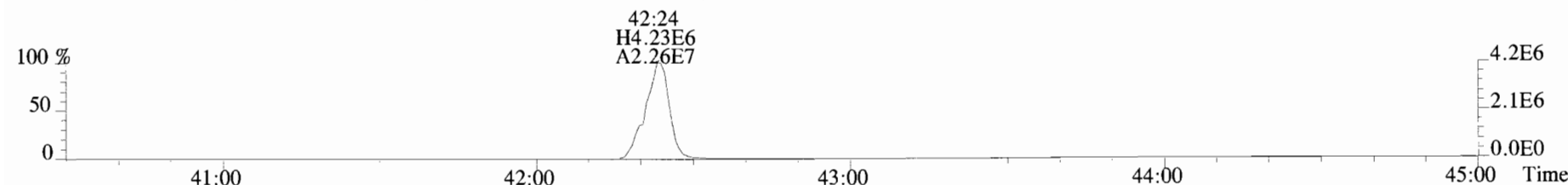
File:140417D1 #1-389 Acq:17-APR-2014 14:43:22 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-2 1613 CS0 13L1808 Exp:OCDD\_DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



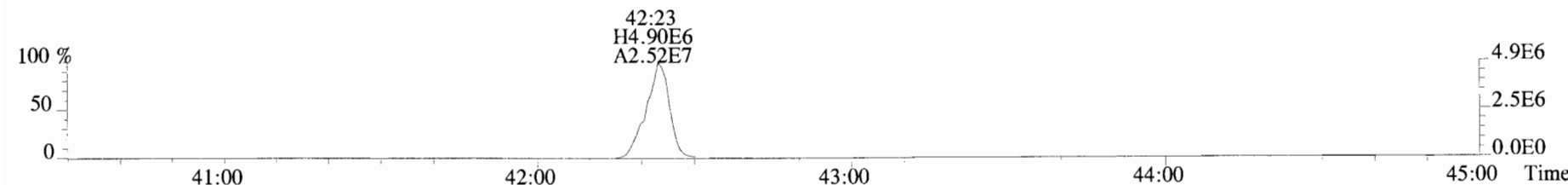
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



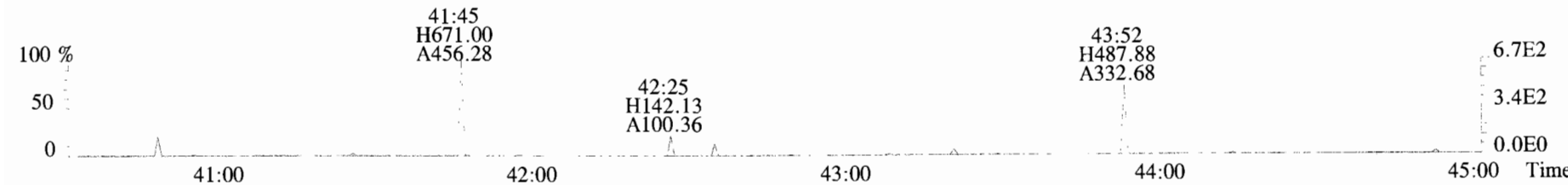
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



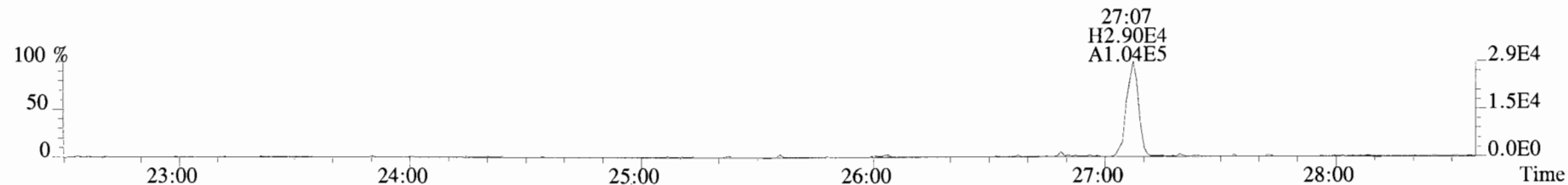
513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



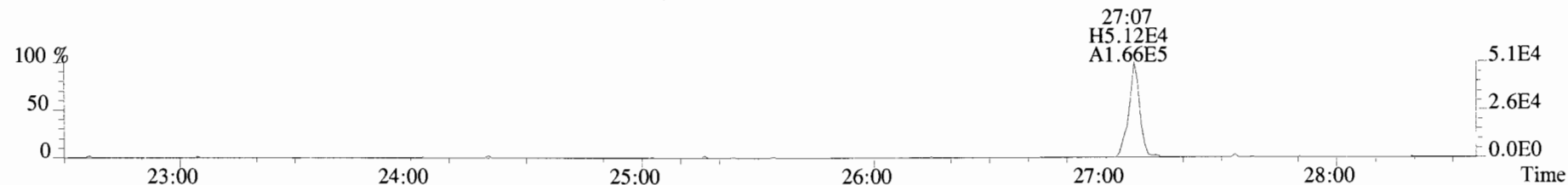
File:140417D1 #1-551 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



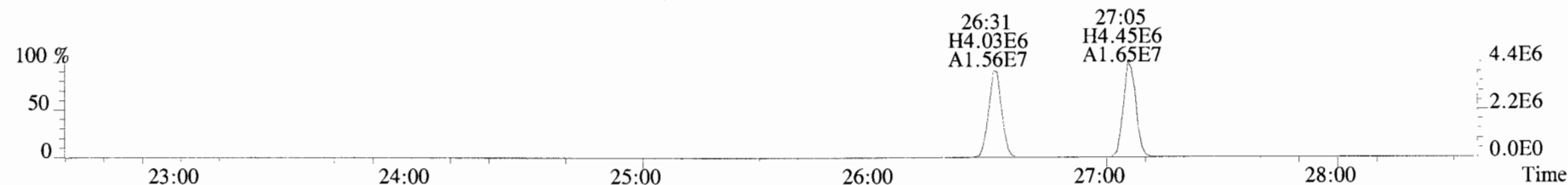
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



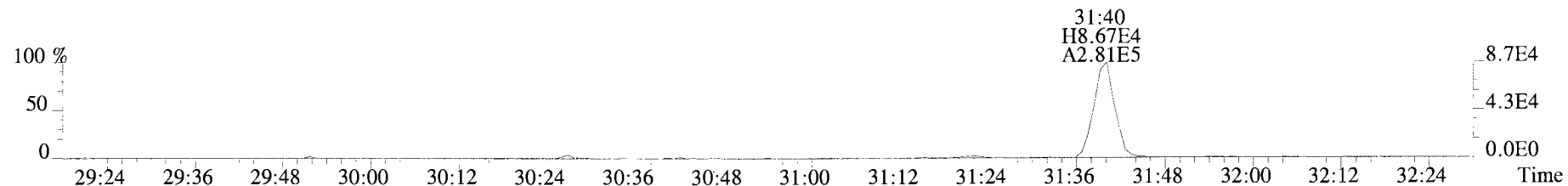
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



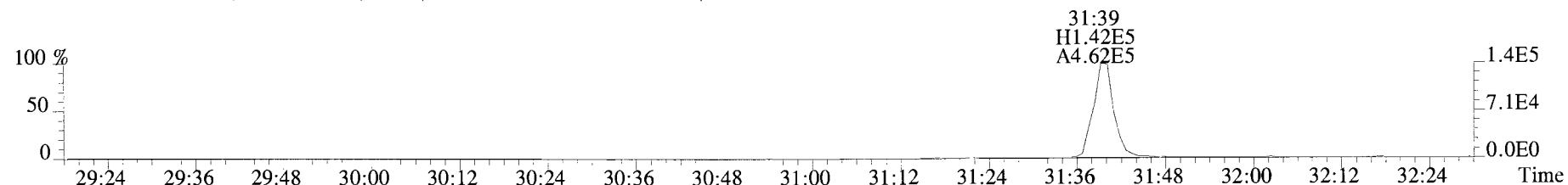
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



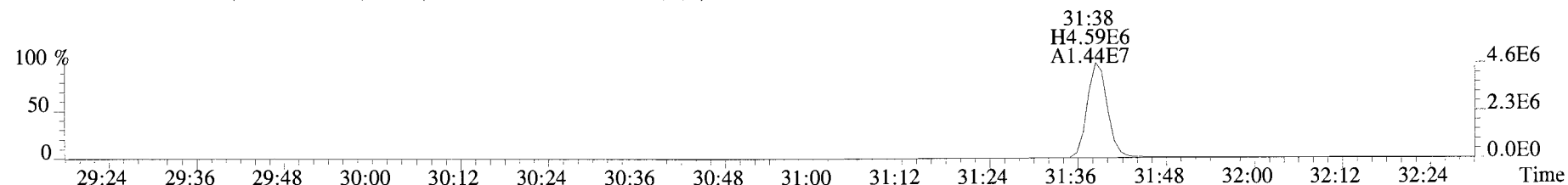
File:140417D1 #1-269 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



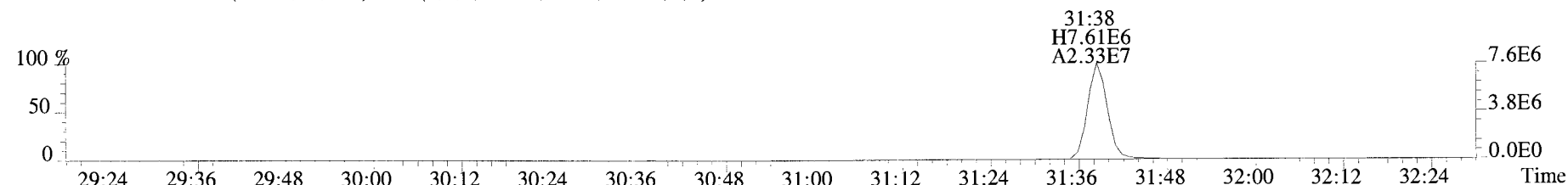
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



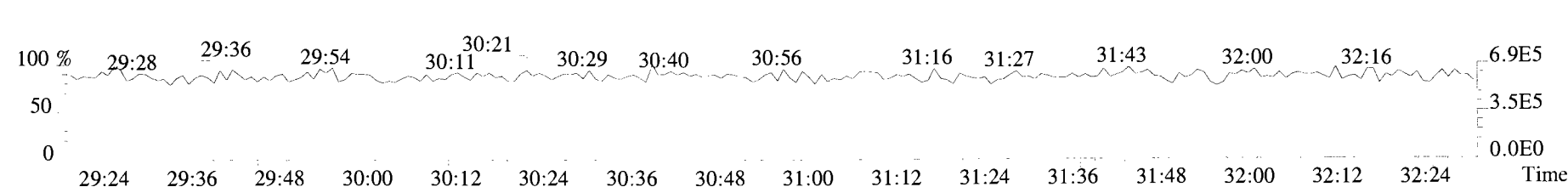
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



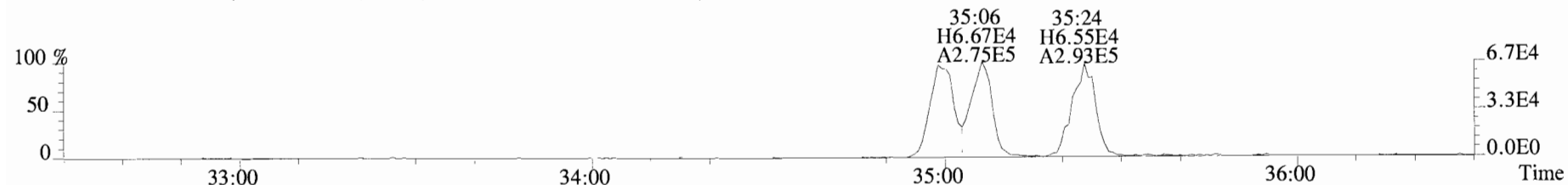
366.9792 S:4 F:2



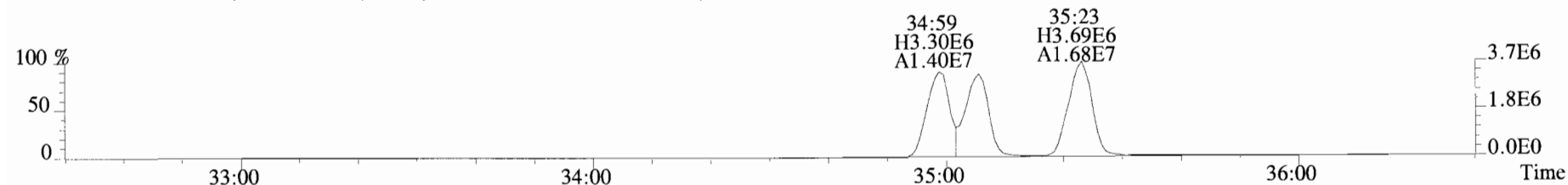
File:140417D1 #1-370 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



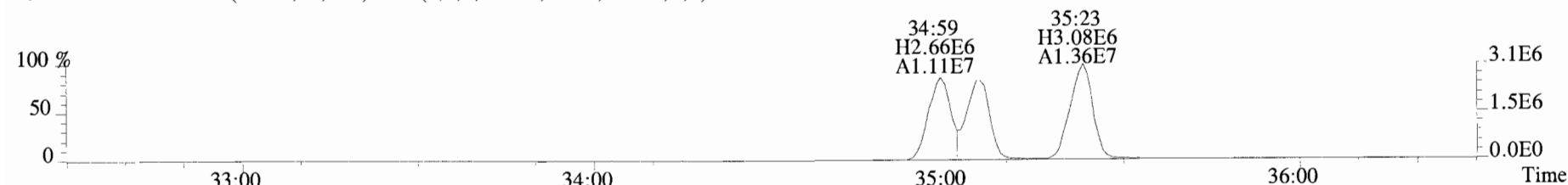
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



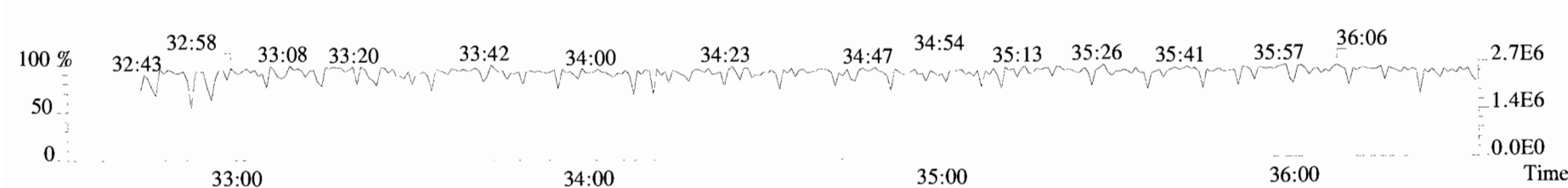
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



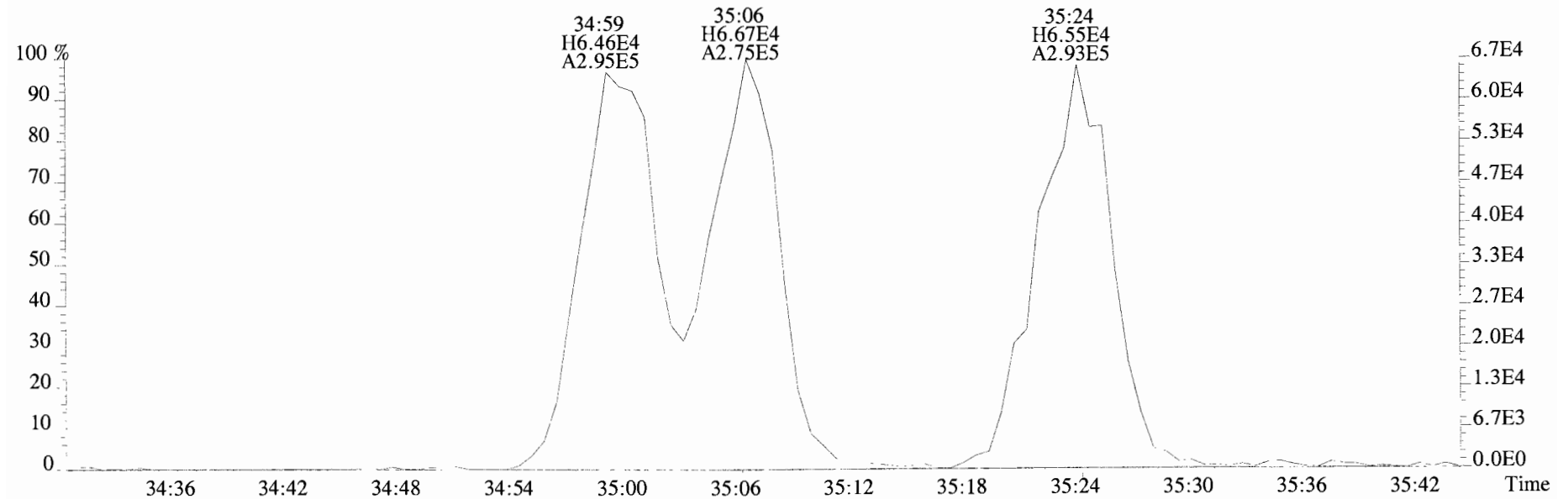
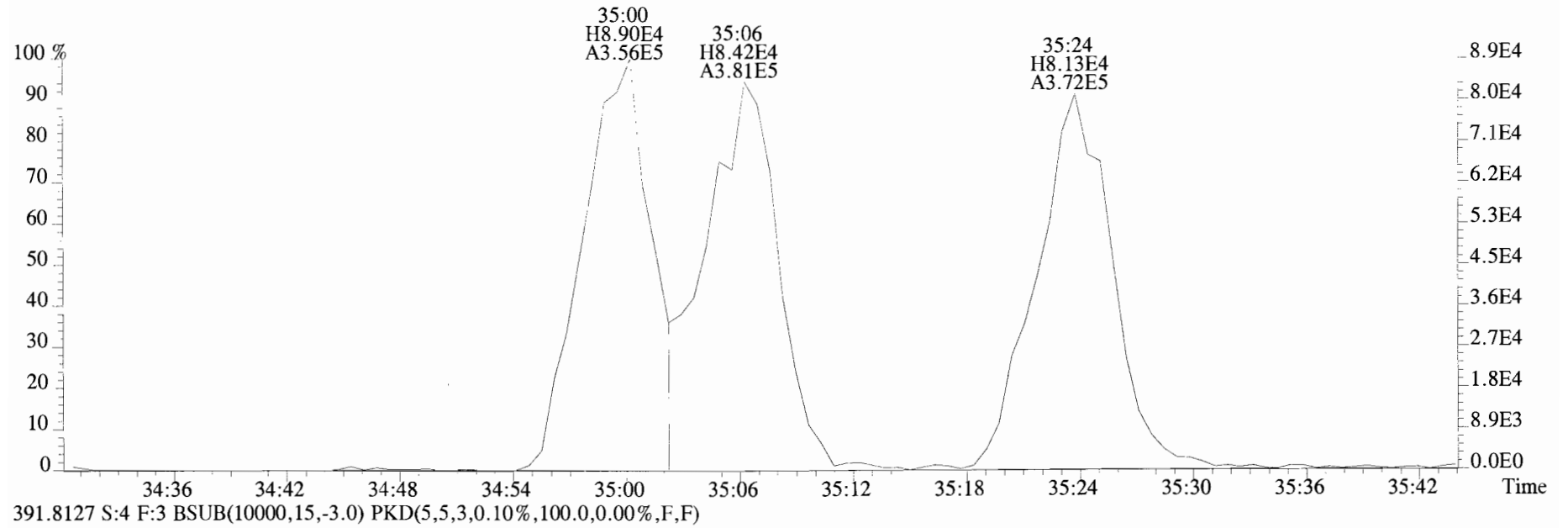
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



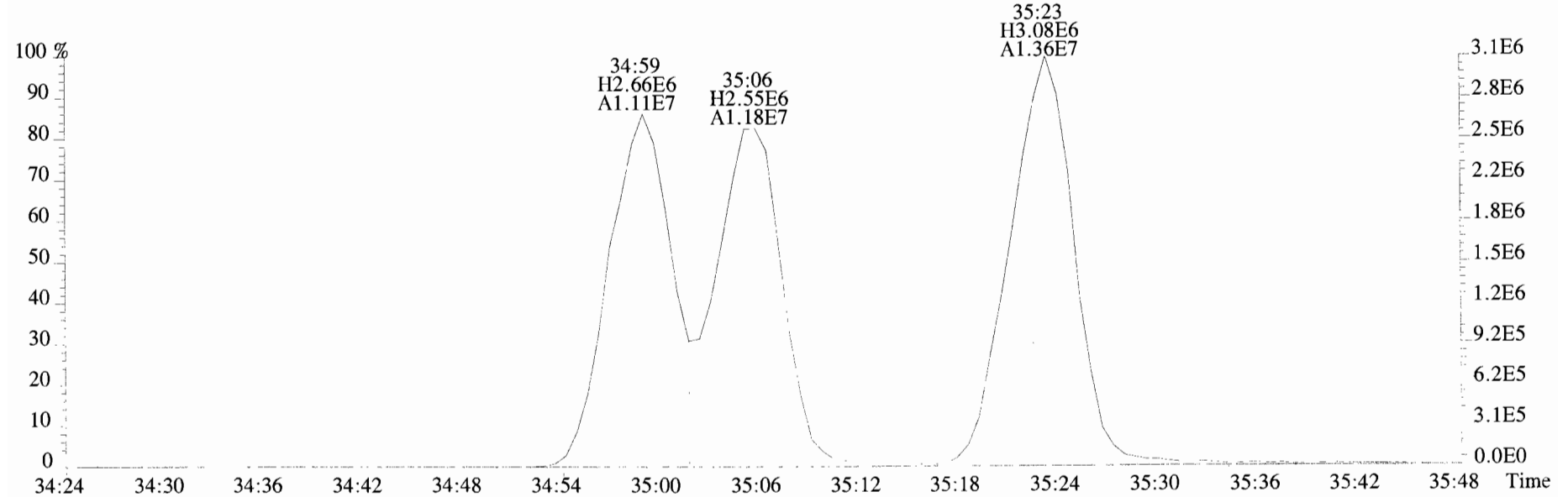
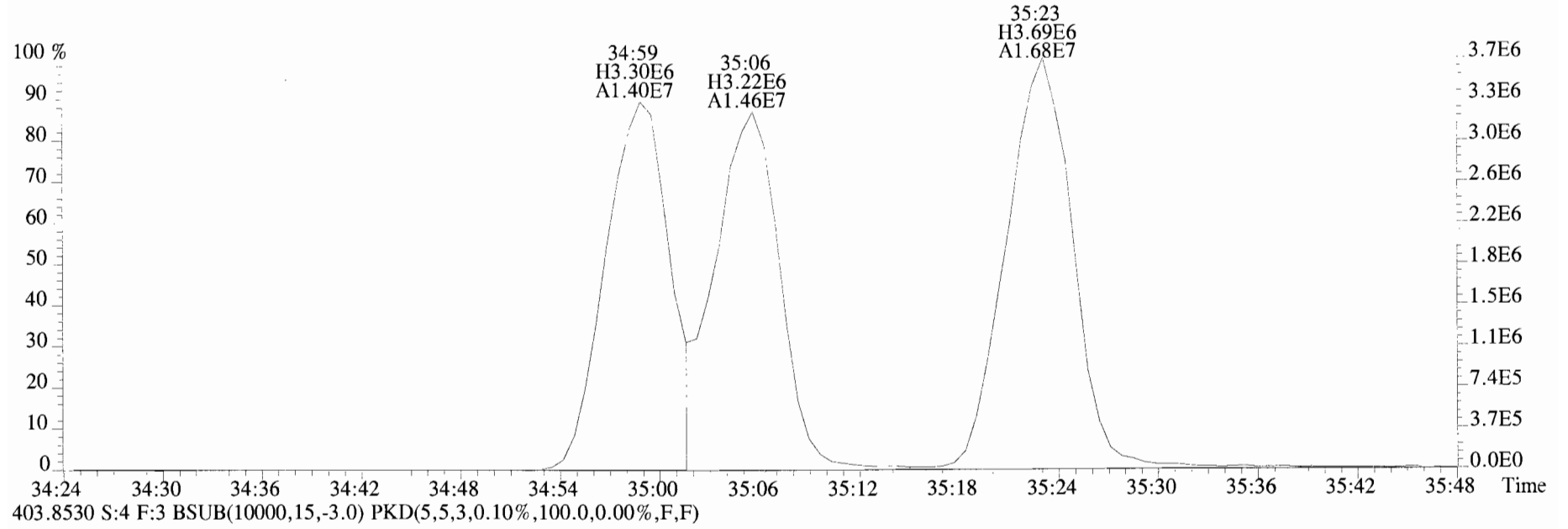
380.9760 S:4 F:3



File:140417D1 #1-370 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

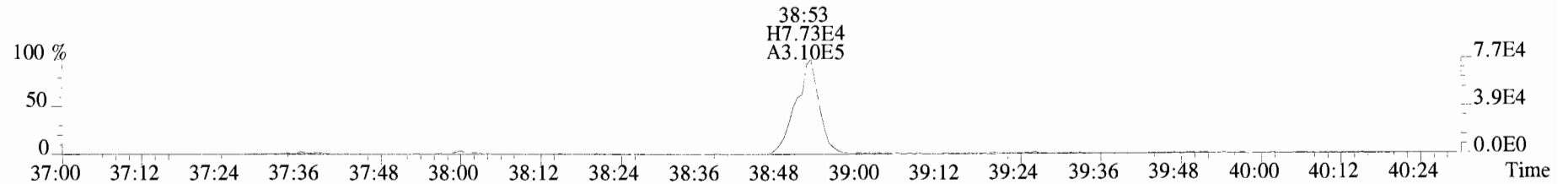


File:140417D1 #1-370 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

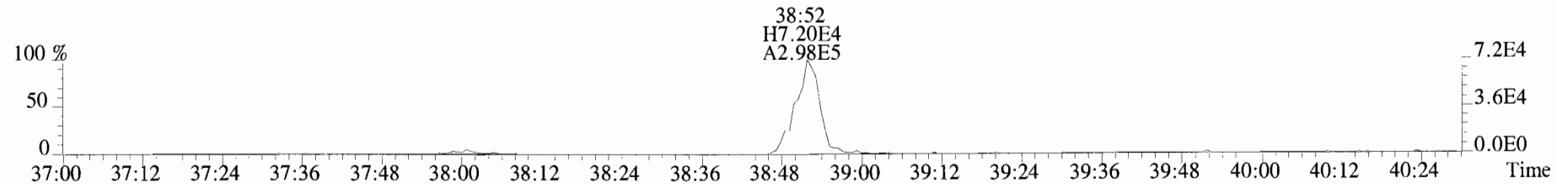




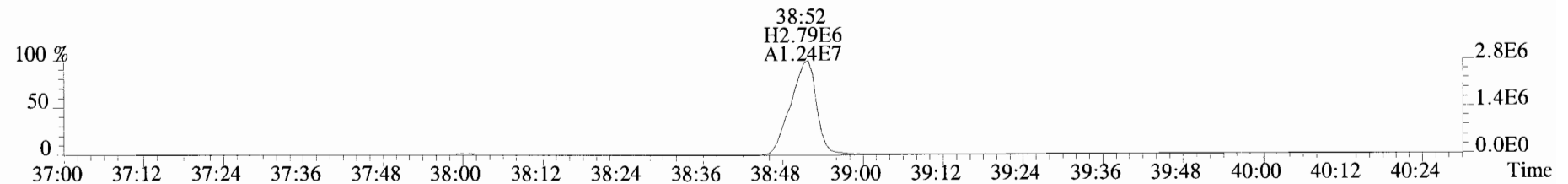
File:140417D1 #1-325 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



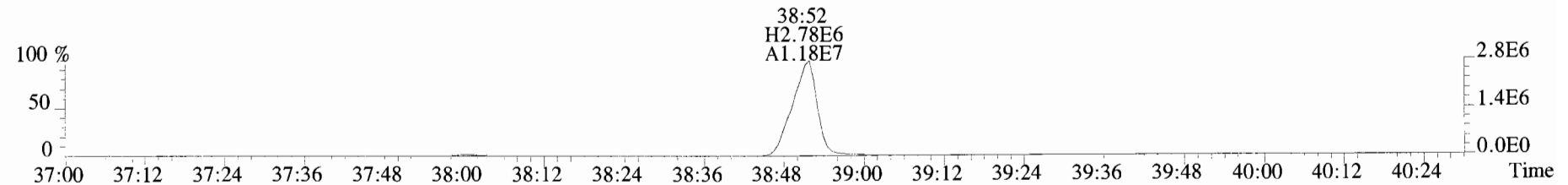
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



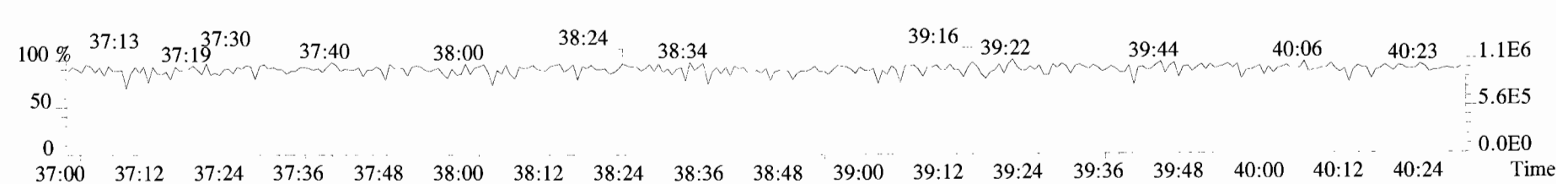
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



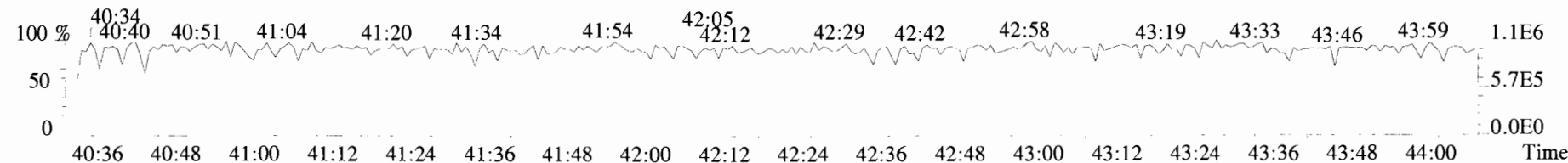
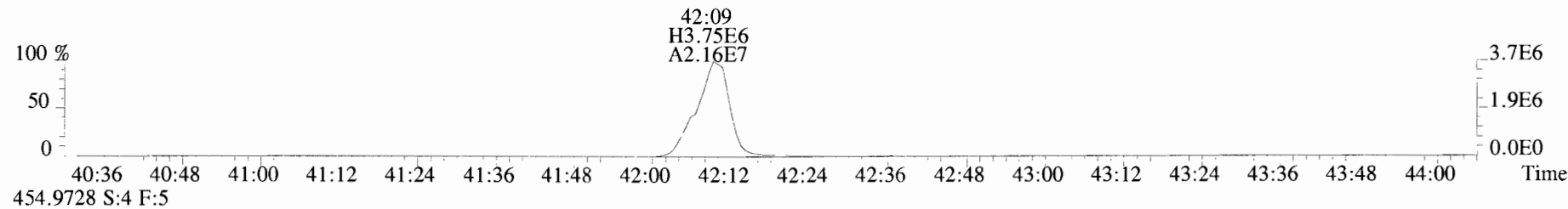
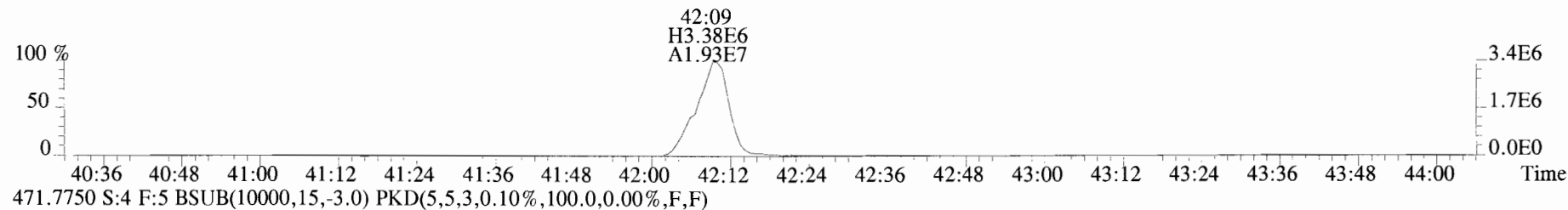
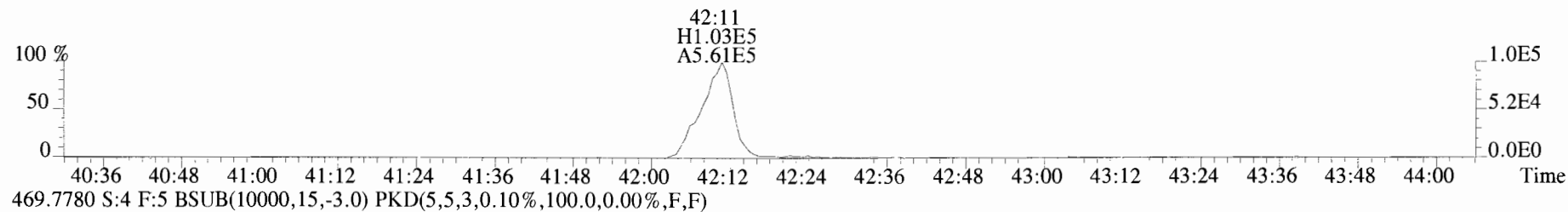
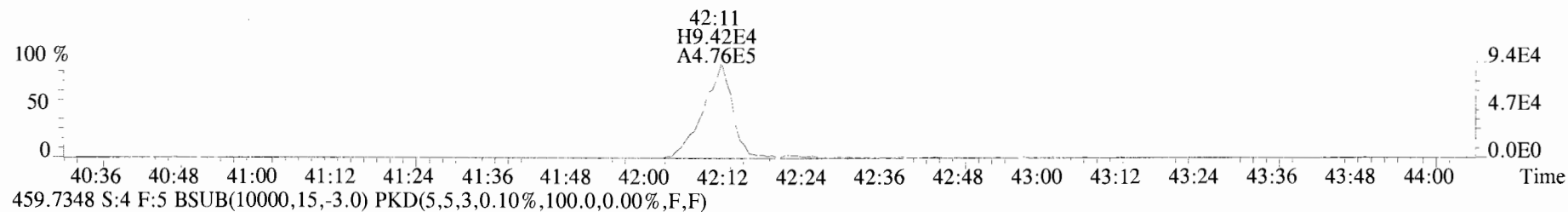
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



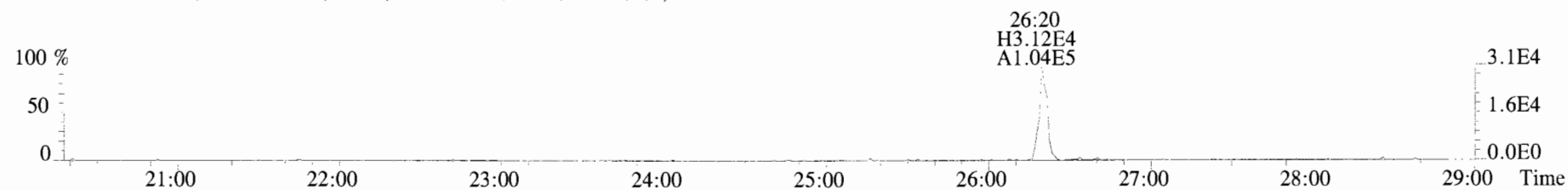
430.9728 S:4 F:4



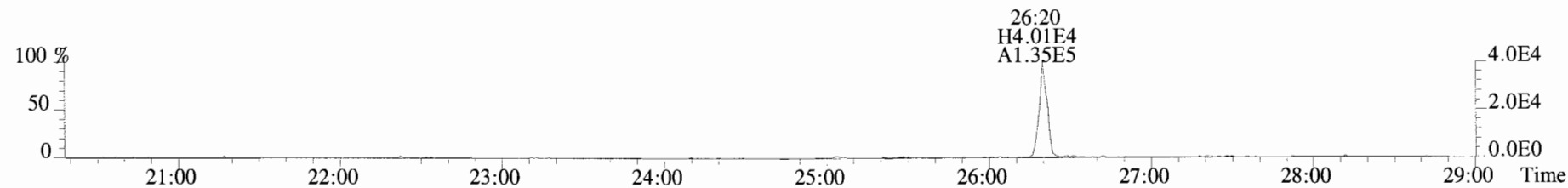
File:140417D1 #1-389 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



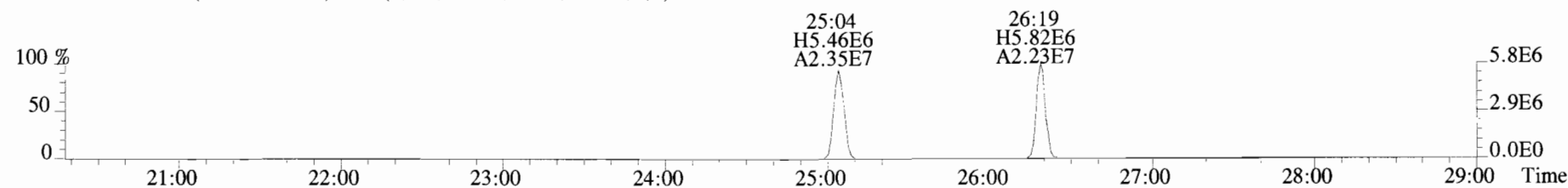
File:140417D1 #1-551 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



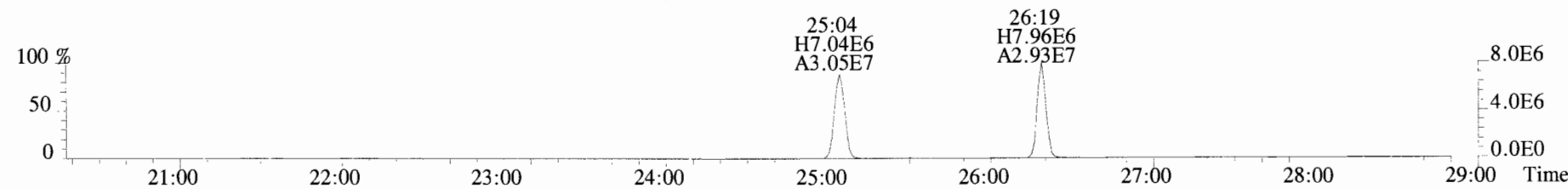
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



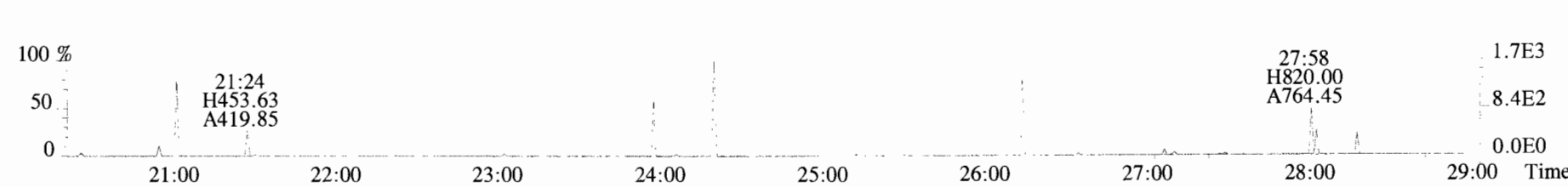
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



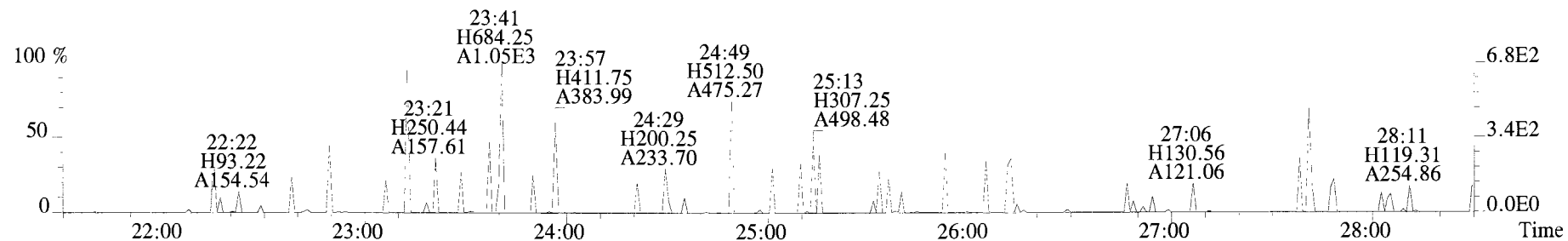
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



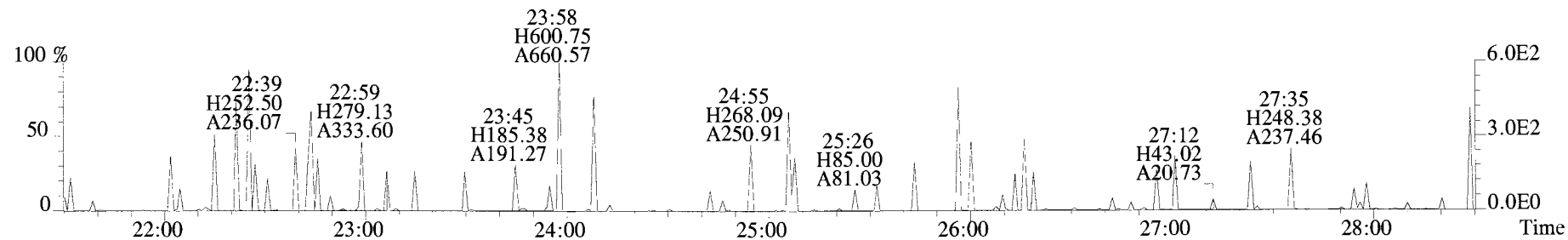
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



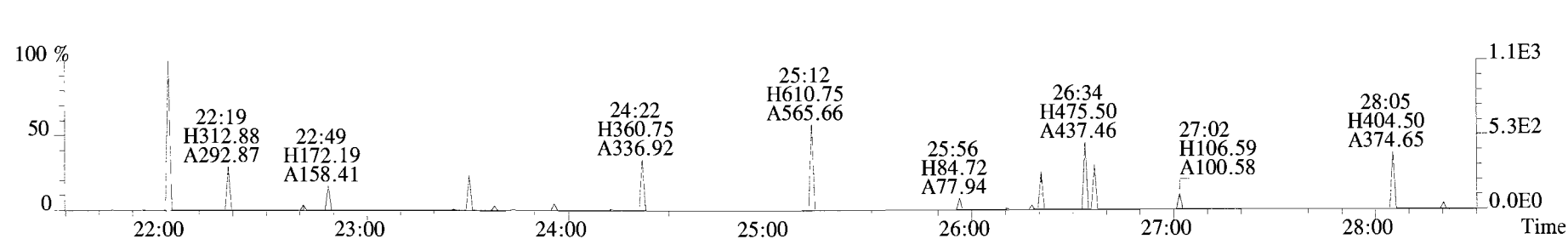
File:140417D1 #1-551 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
339.8597 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



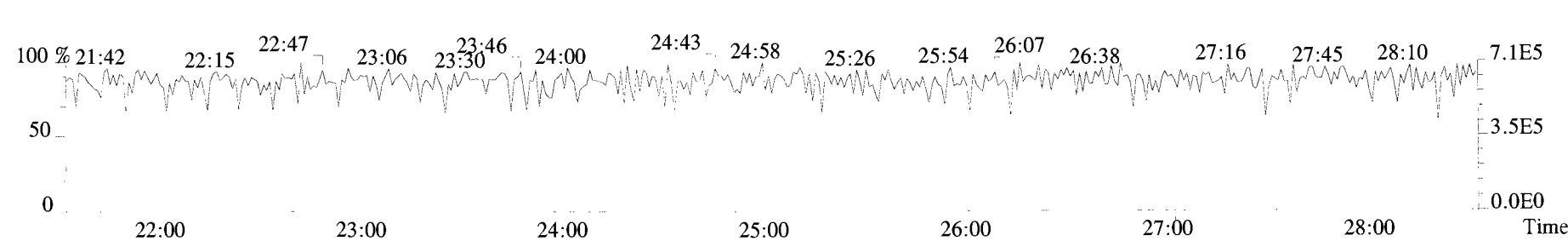
341.8568 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



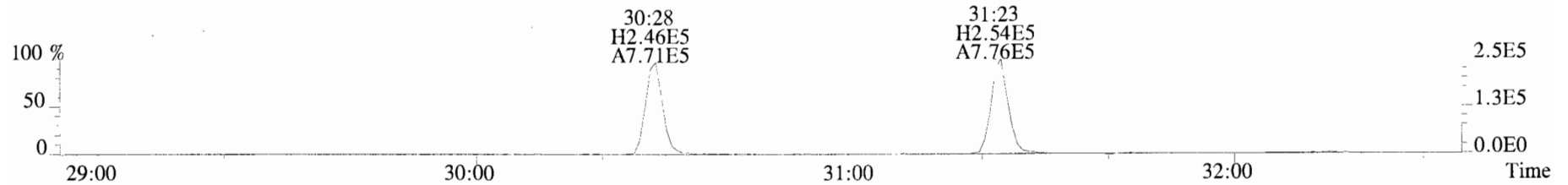
409.7974 S:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



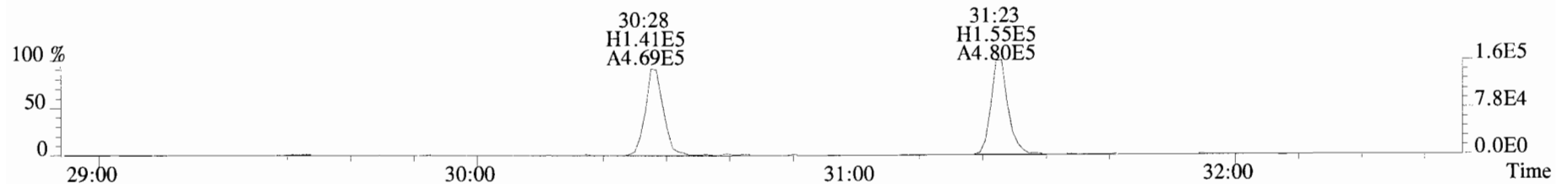
316.9824 S:4



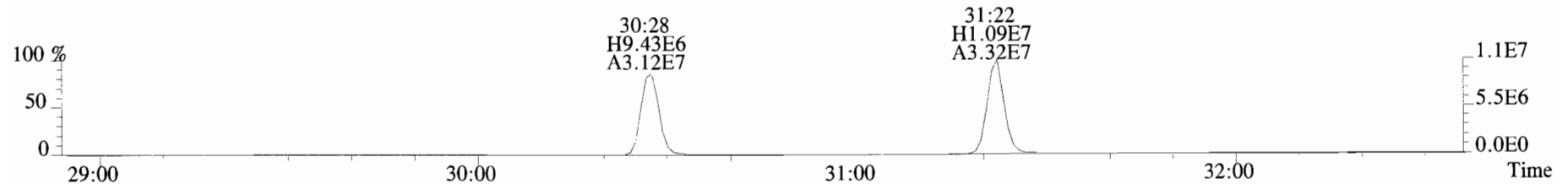
File:140417D1 #1-269 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



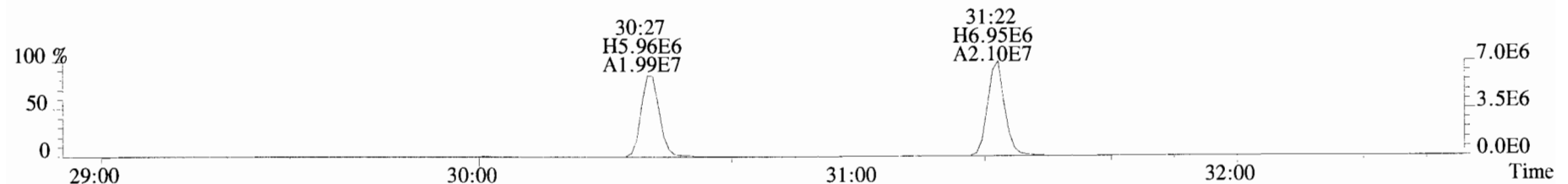
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



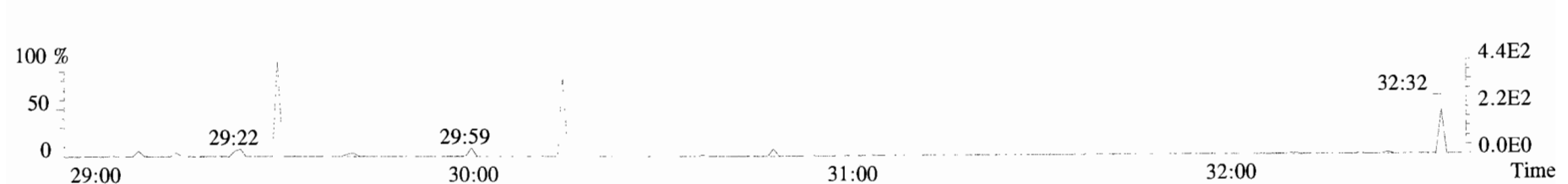
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



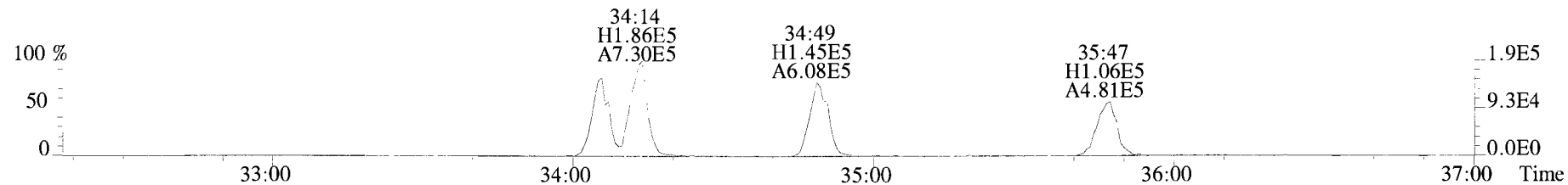
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



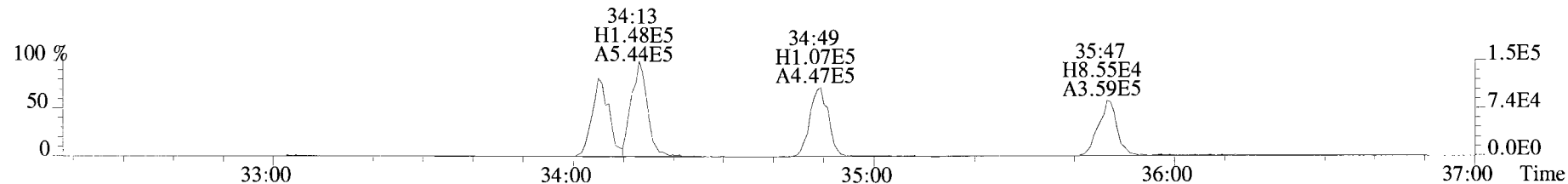
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



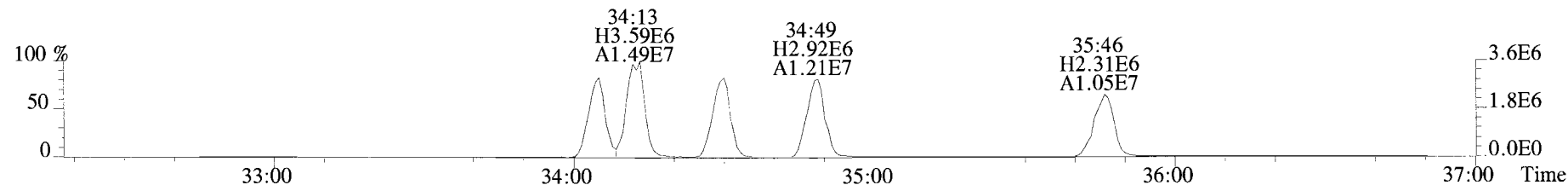
File:140417D1 #1-370 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



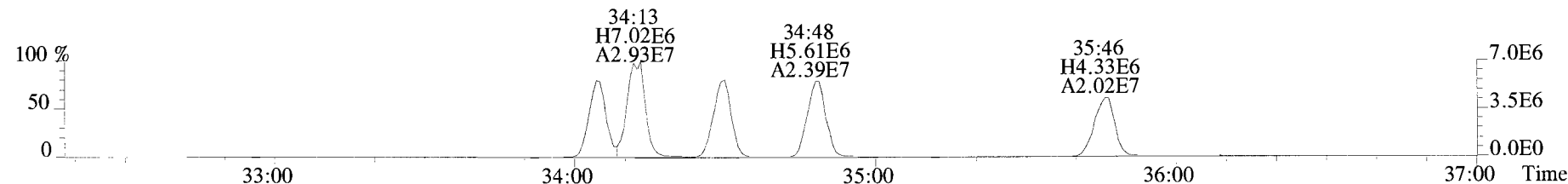
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



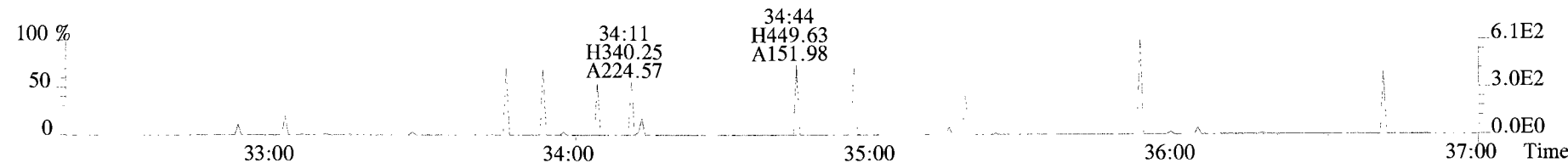
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



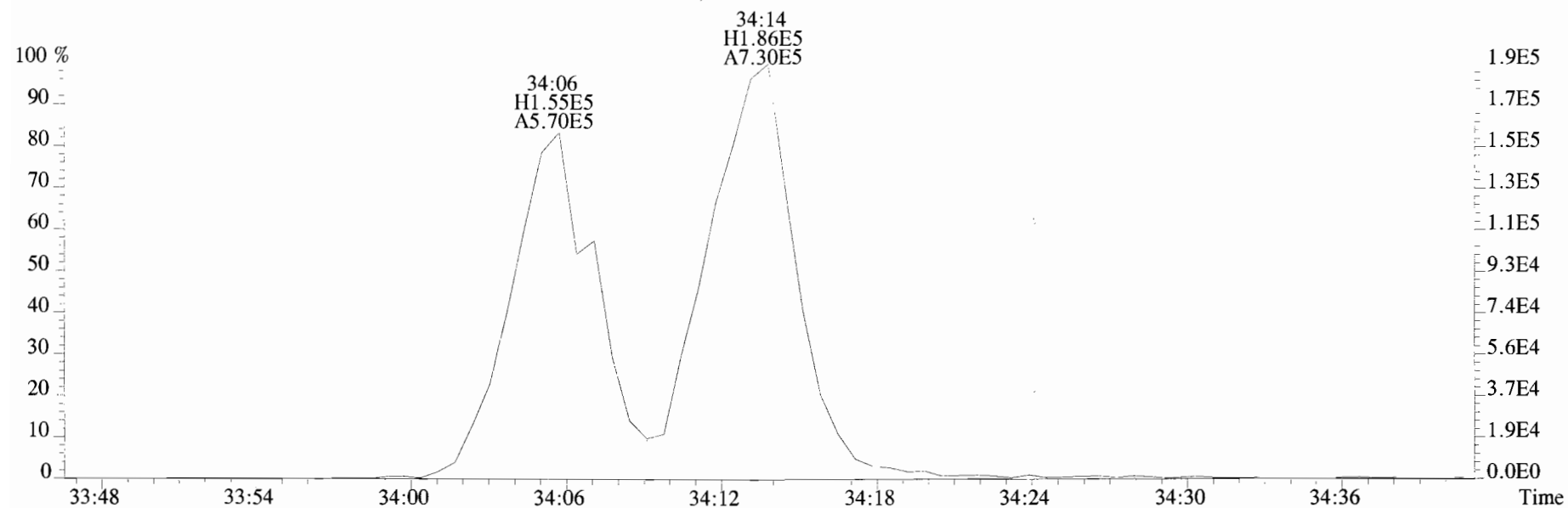
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



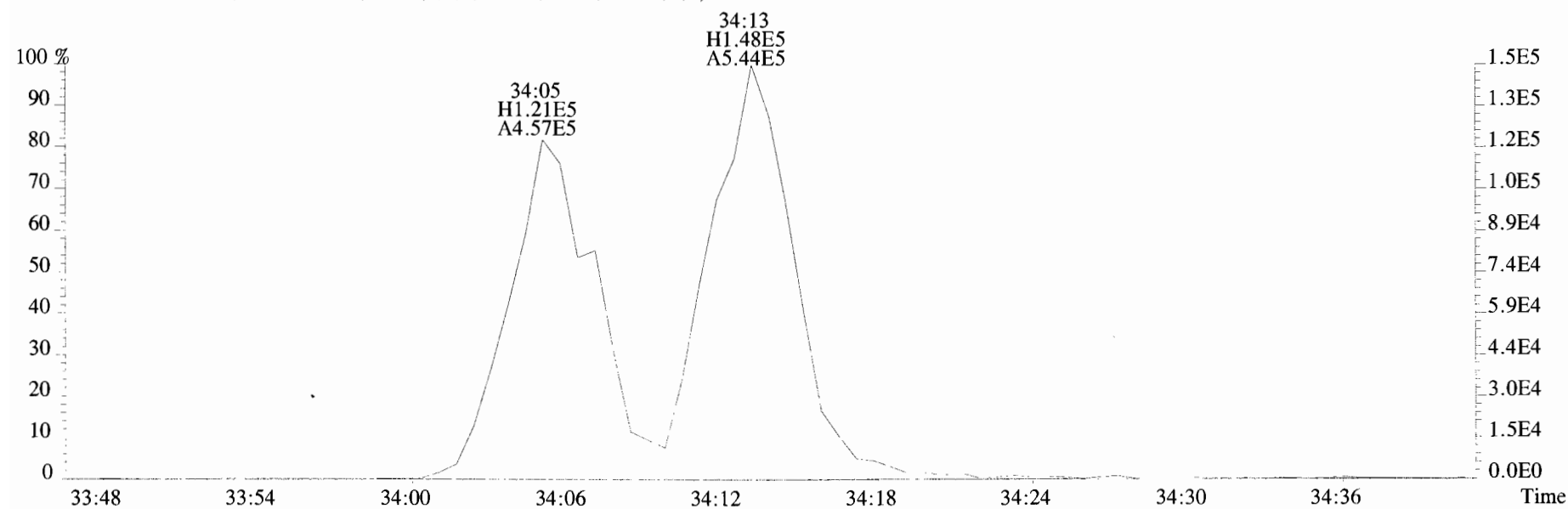
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



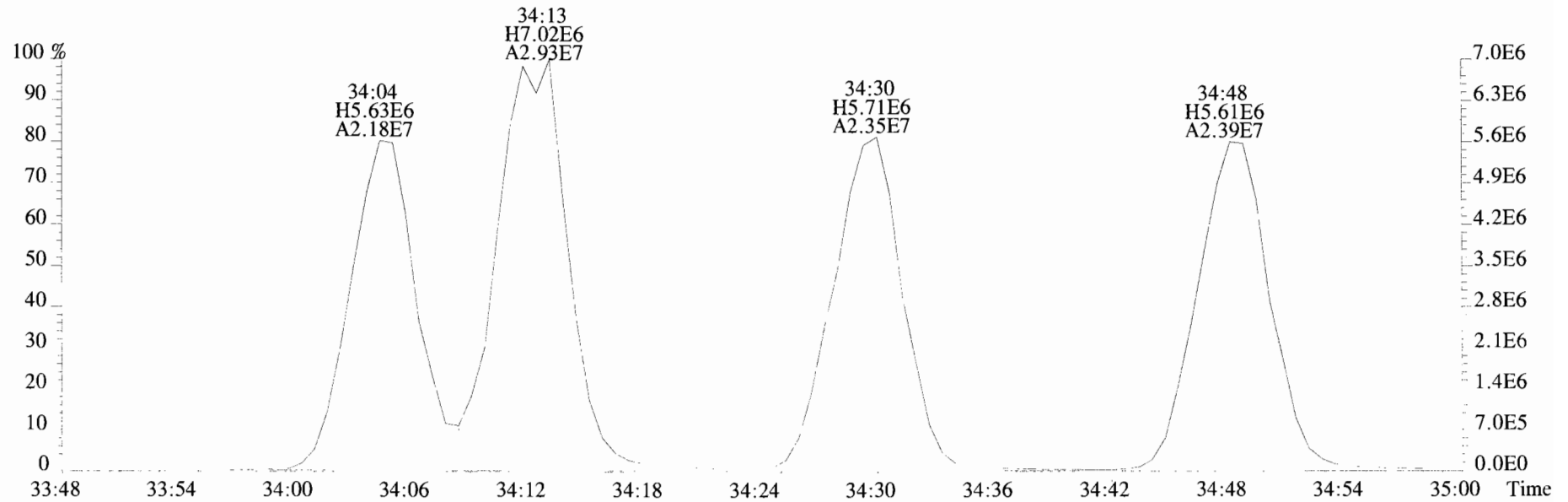
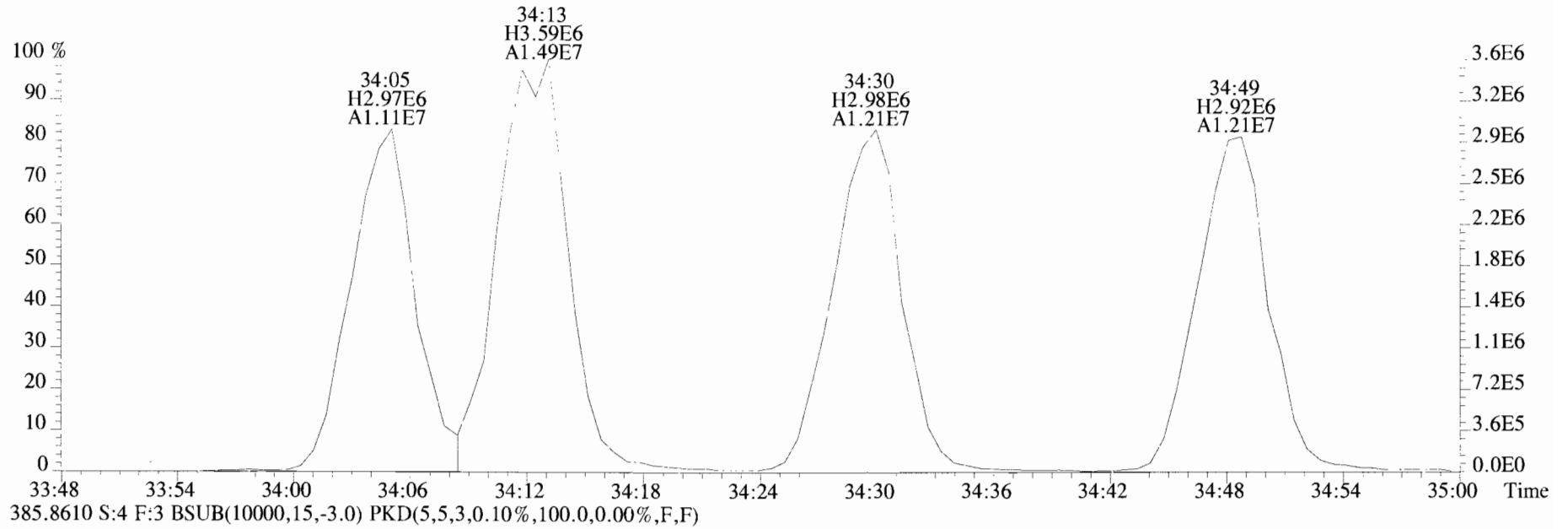
File:140417D1 #1-370 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

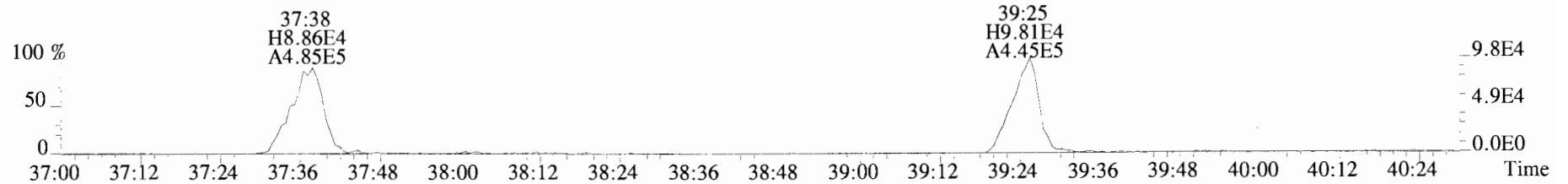


File:140417D1 #1-370 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

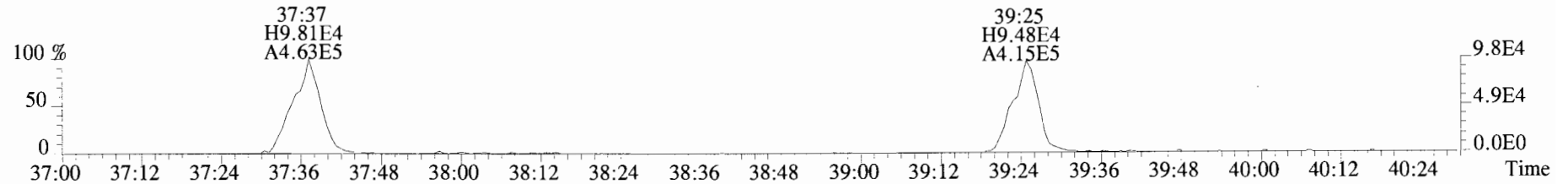




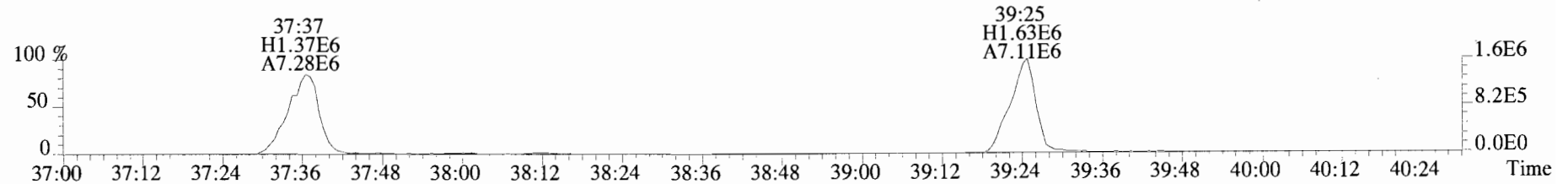
File:140417D1 #1-325 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



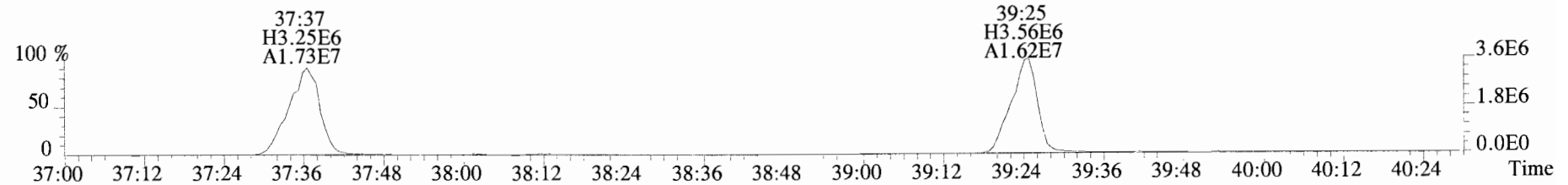
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



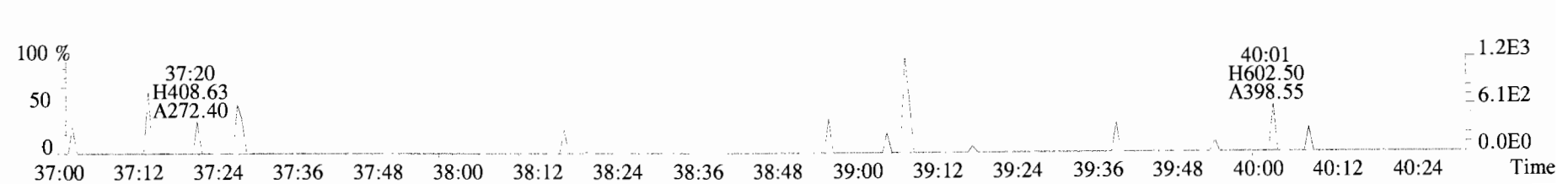
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



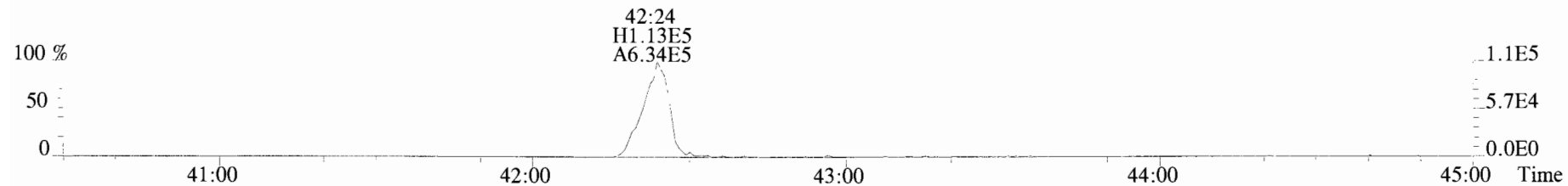
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



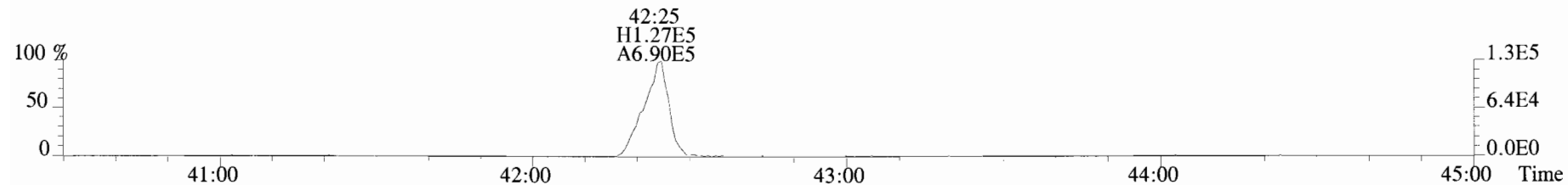
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



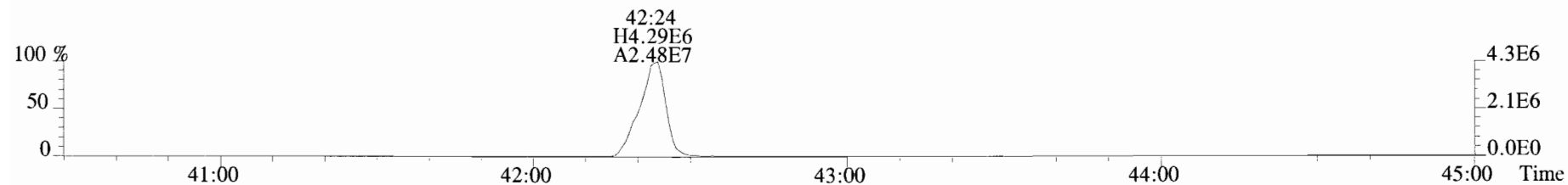
File:140417D1 #1-389 Acq:17-APR-2014 15:31:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-3 1613 CS1 13L1809 Exp:OCDD\_DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



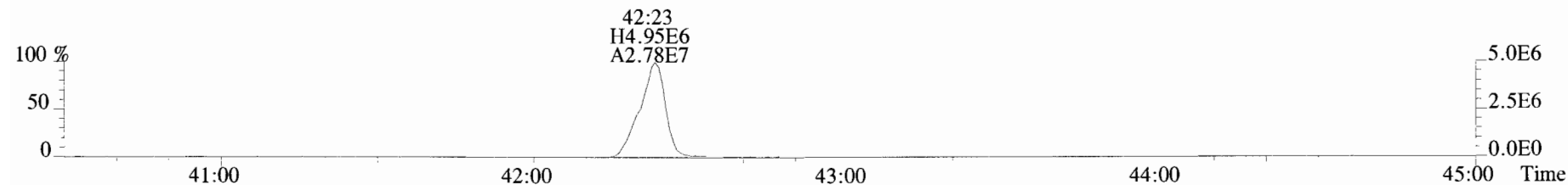
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



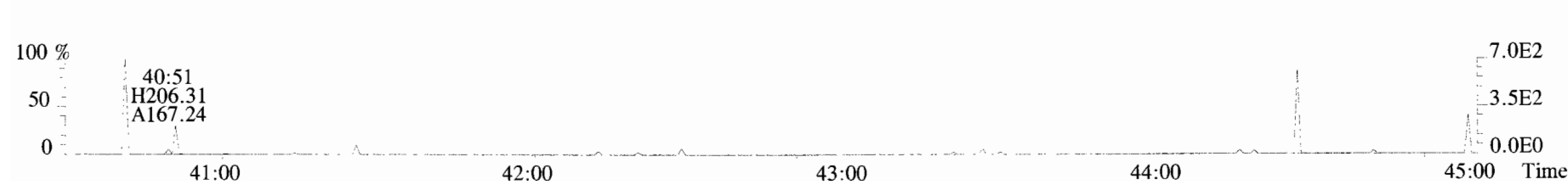
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



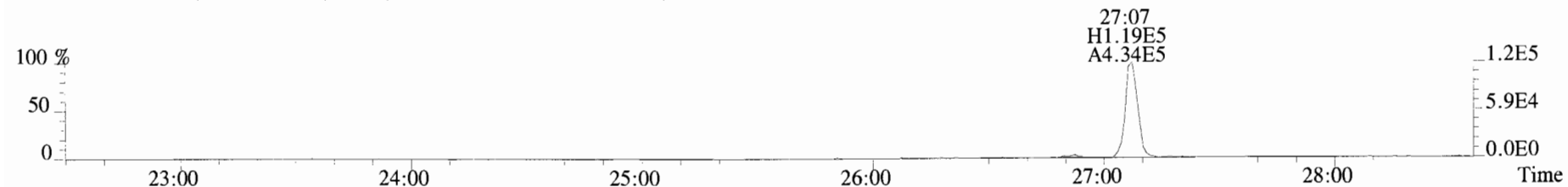
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



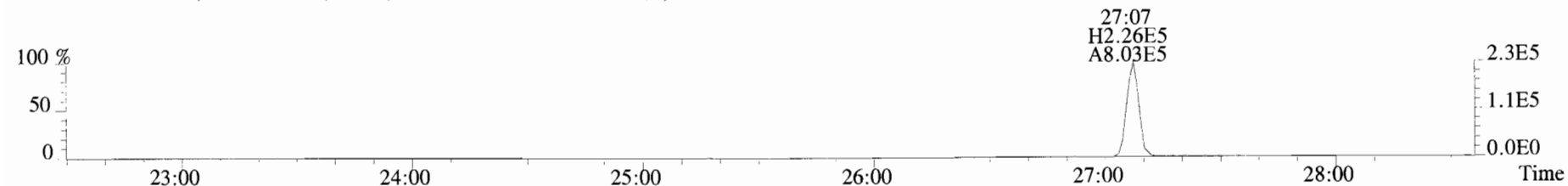
File:140417D1 #1-551 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



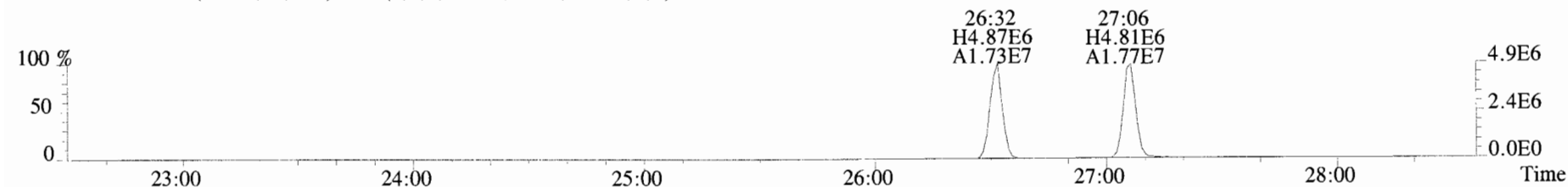
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



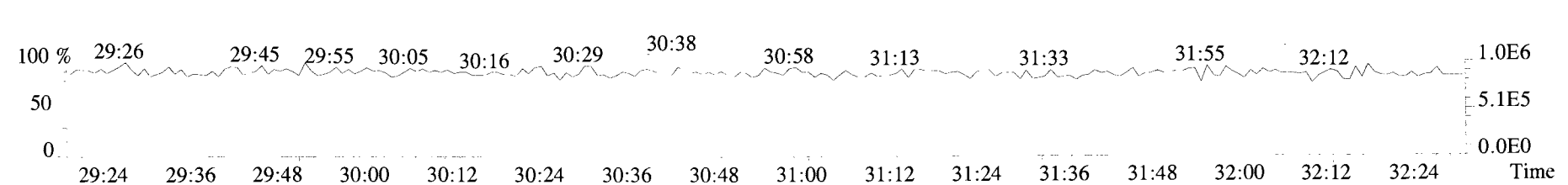
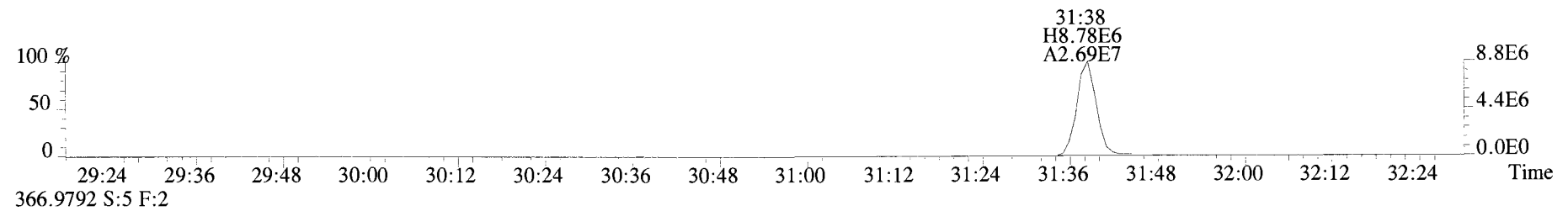
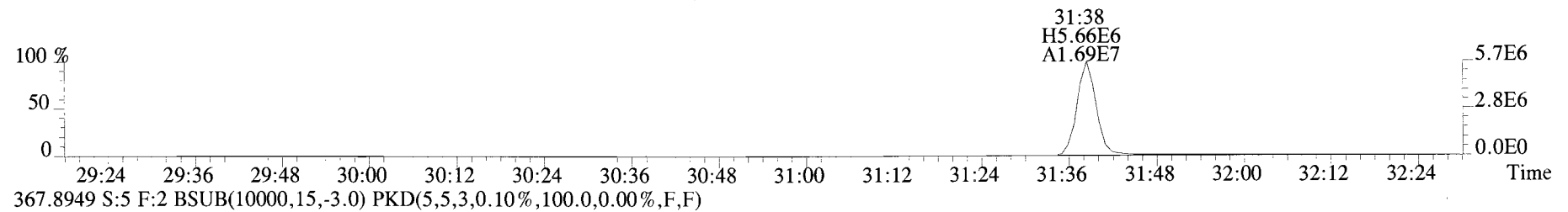
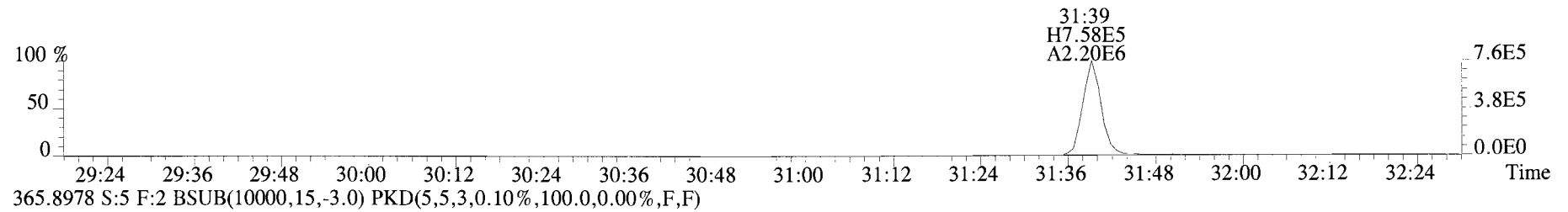
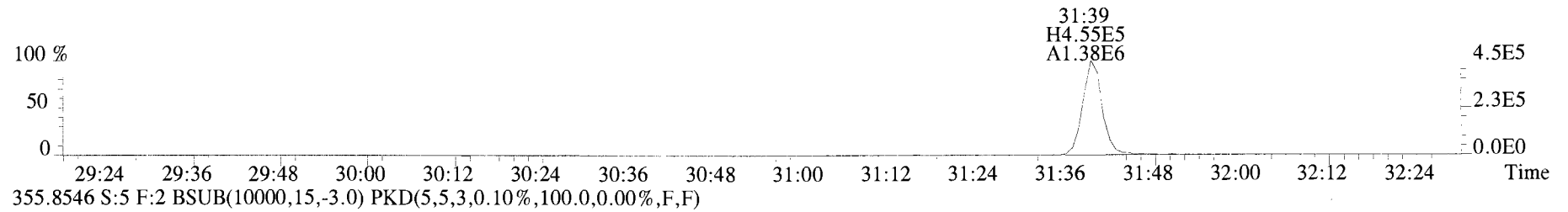
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



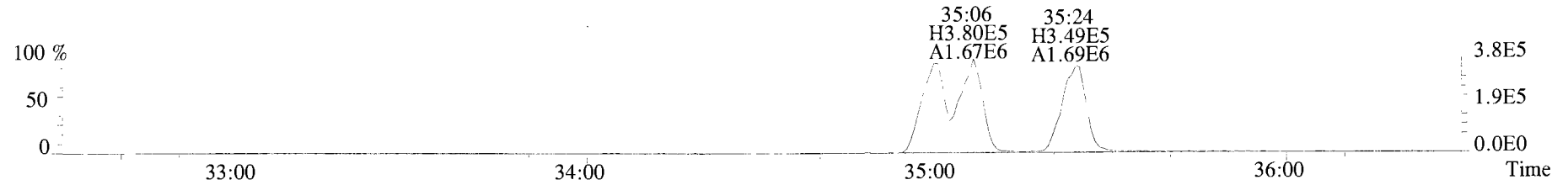
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



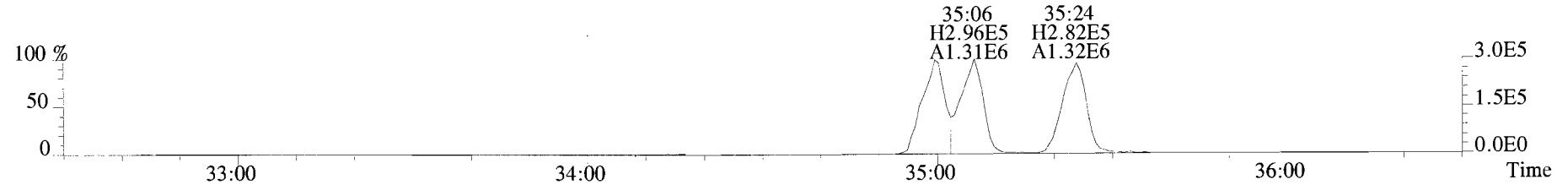
File: 140417D1 #1-269 Acq: 17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text: ST140417D1-4 1613 CS2 14B1101 Exp: OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



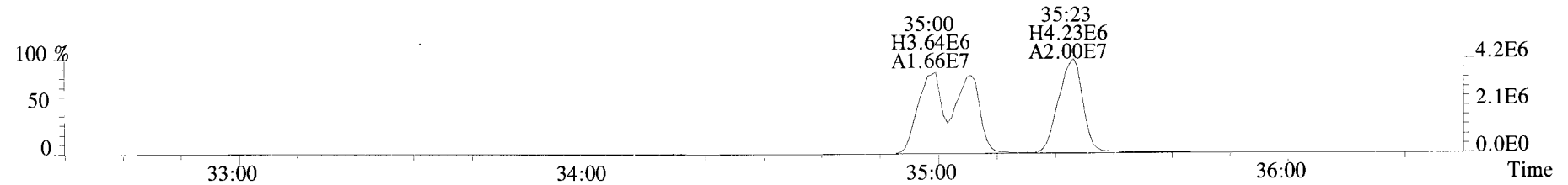
File:140417D1 #1-370 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



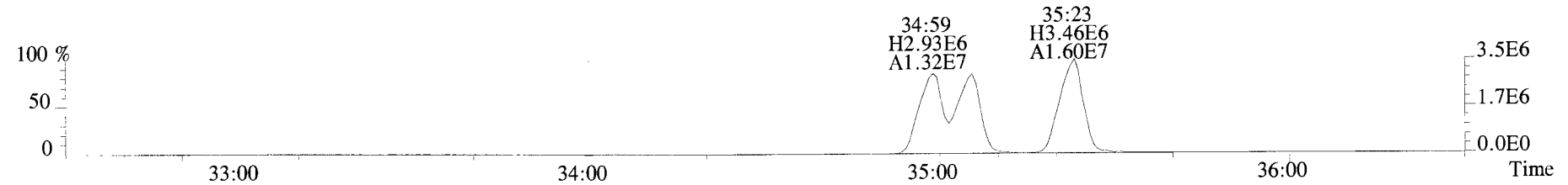
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



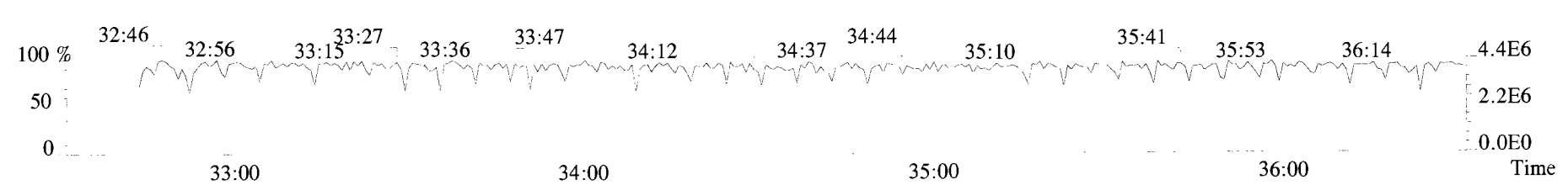
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



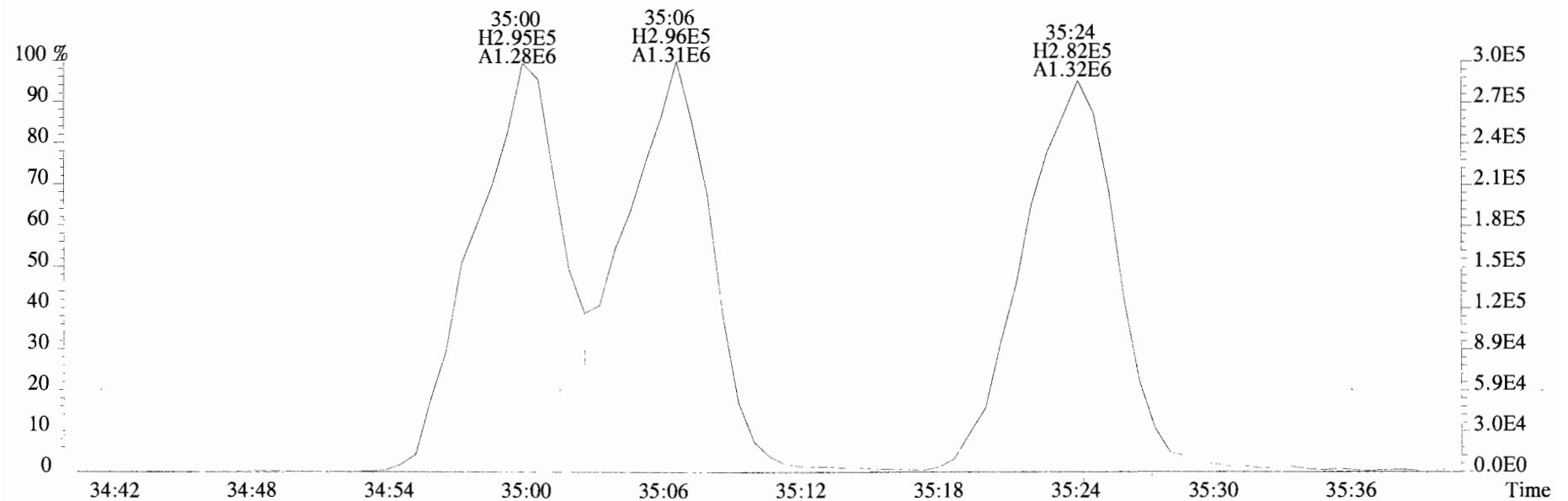
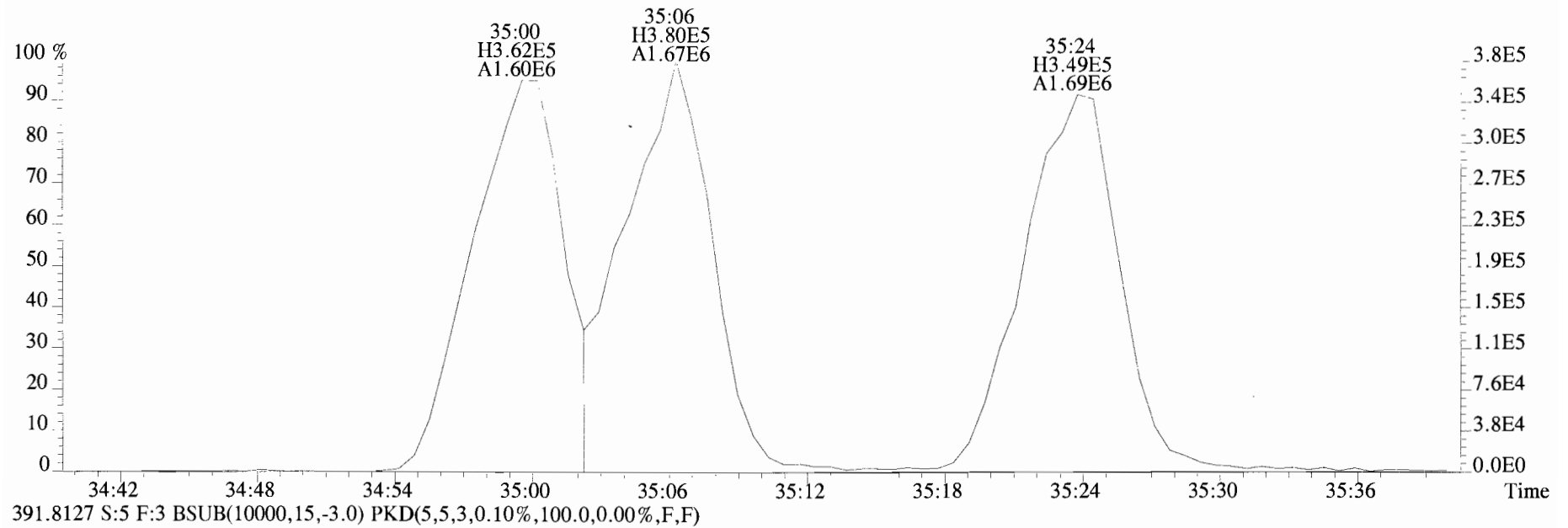
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



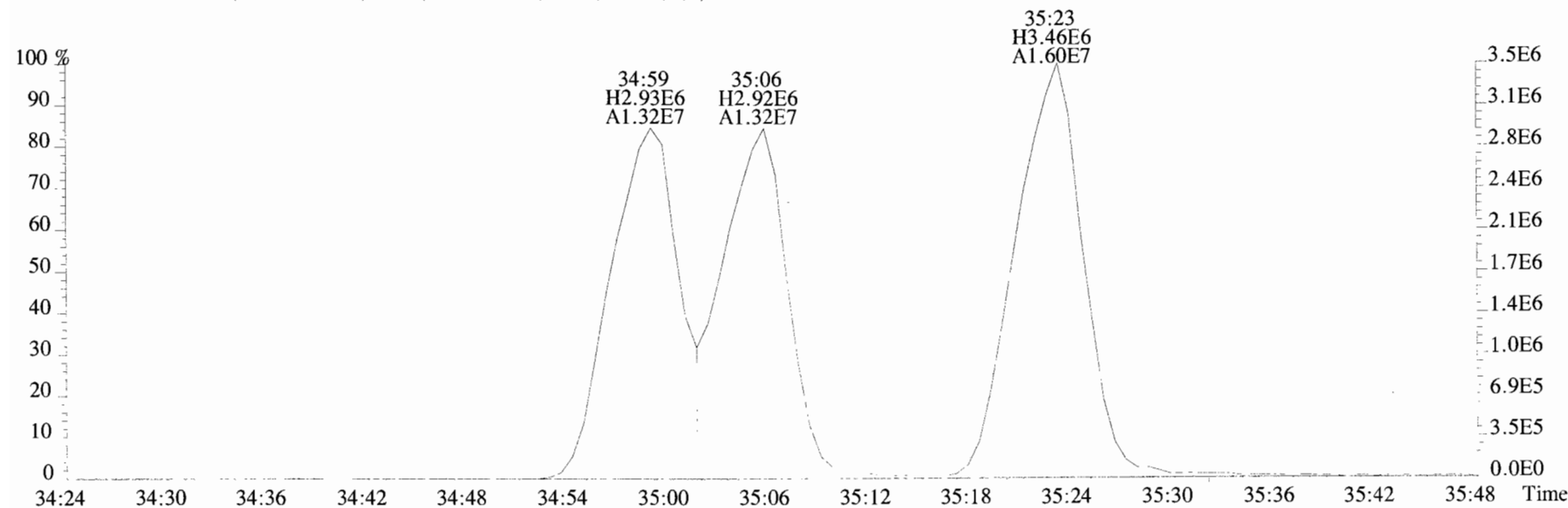
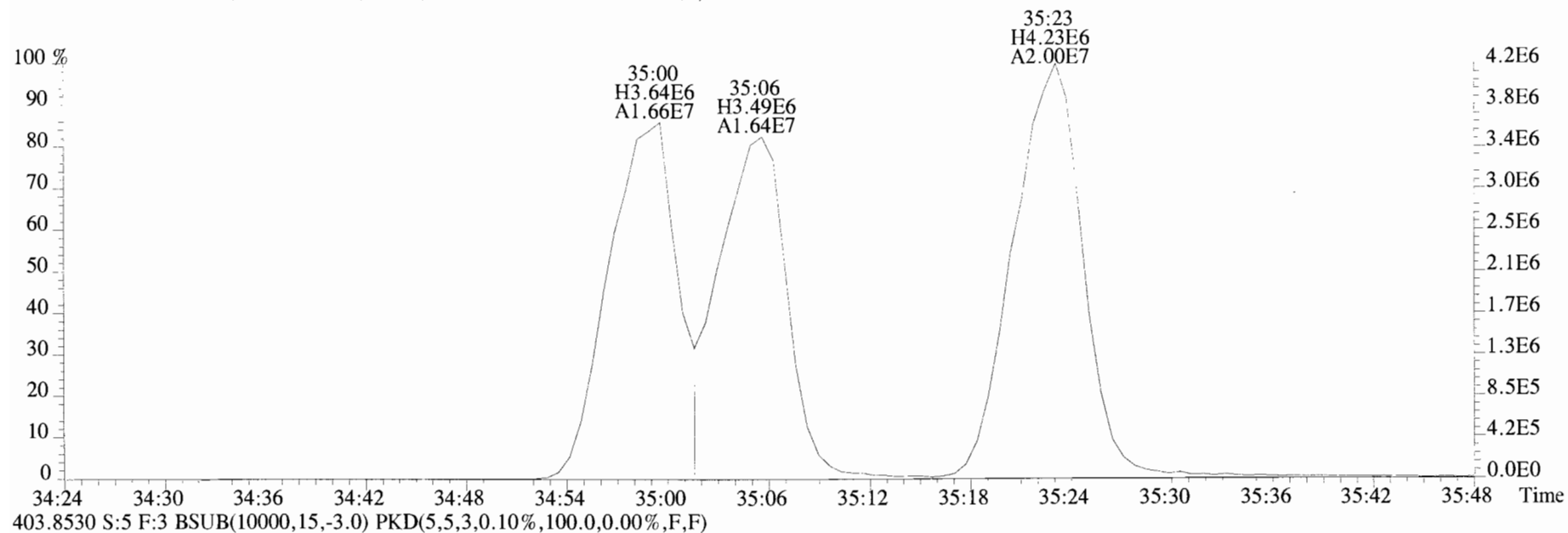
380.9760 S:5 F:3



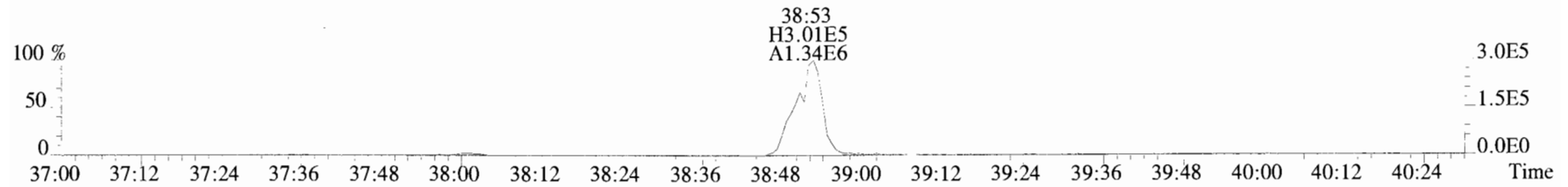
File:140417D1 #1-370 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



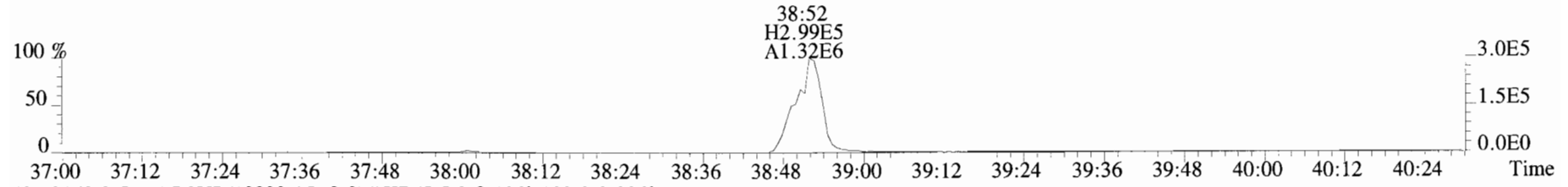
File:140417D1 #1-370 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



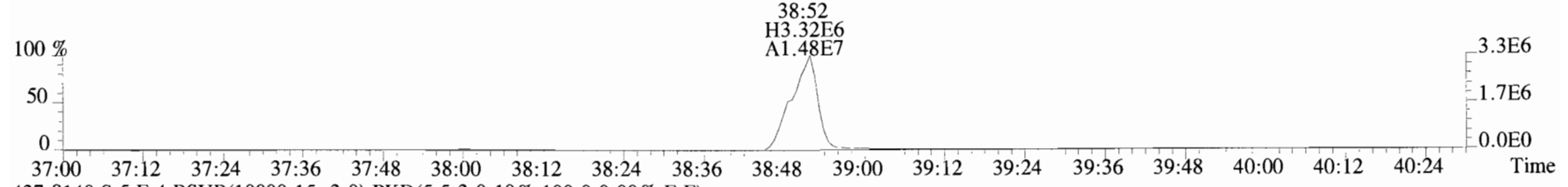
File:140417D1 #1-325 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



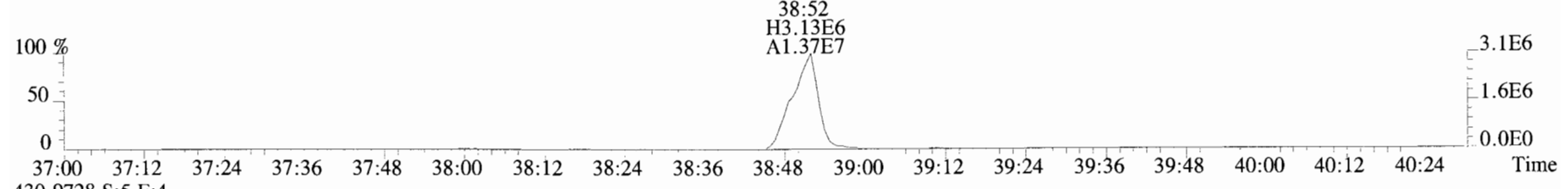
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



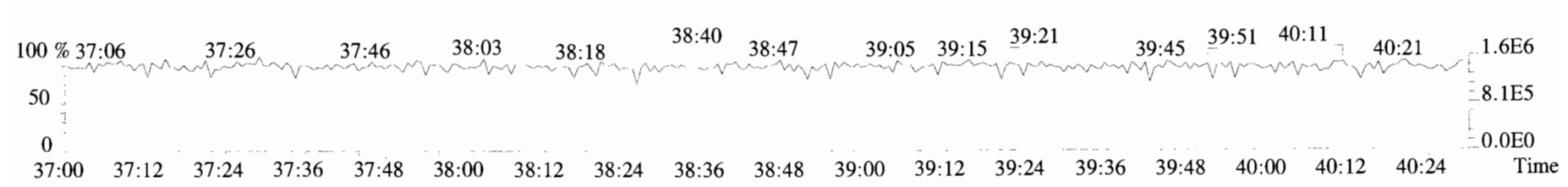
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

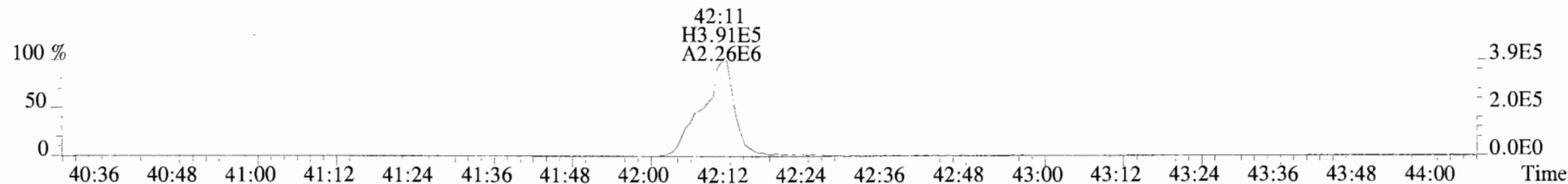


430.9728 S:5 F:4

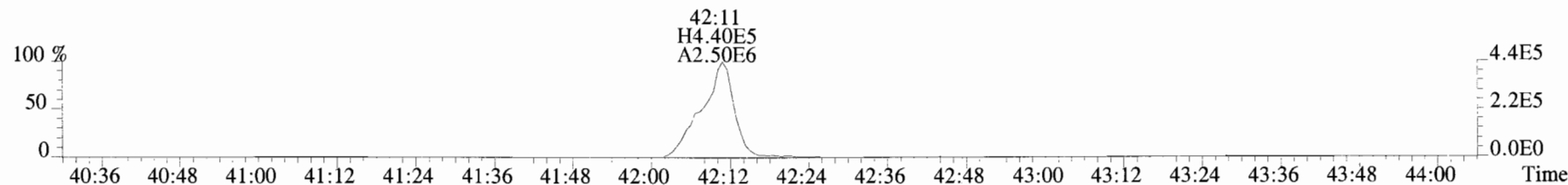




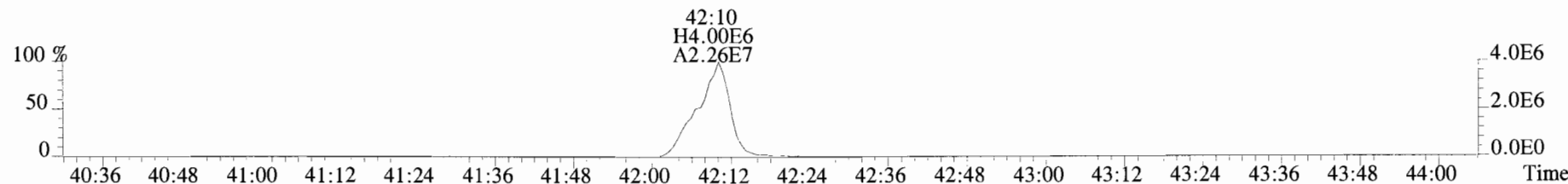
File:140417D1 #1-389 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



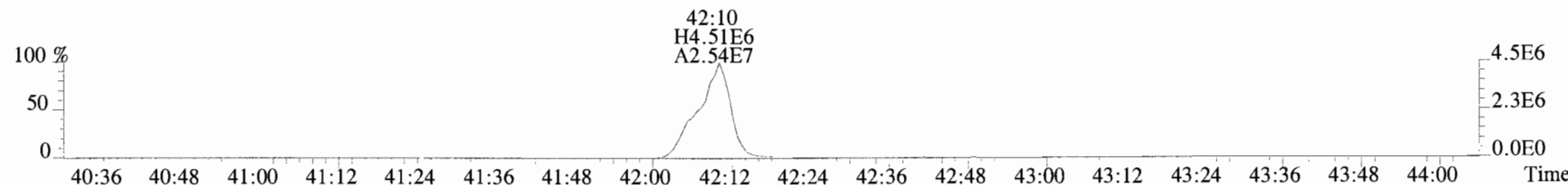
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



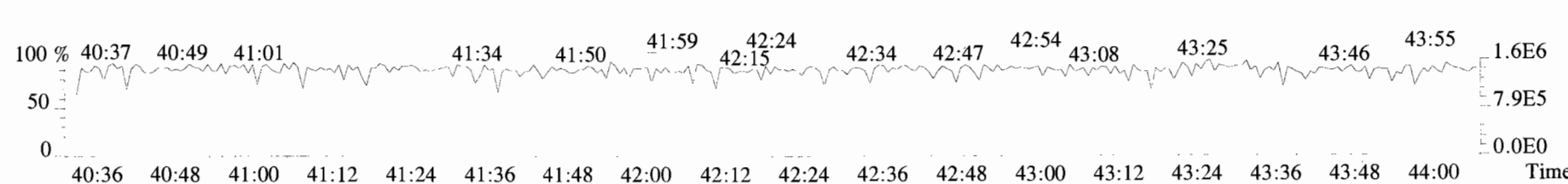
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



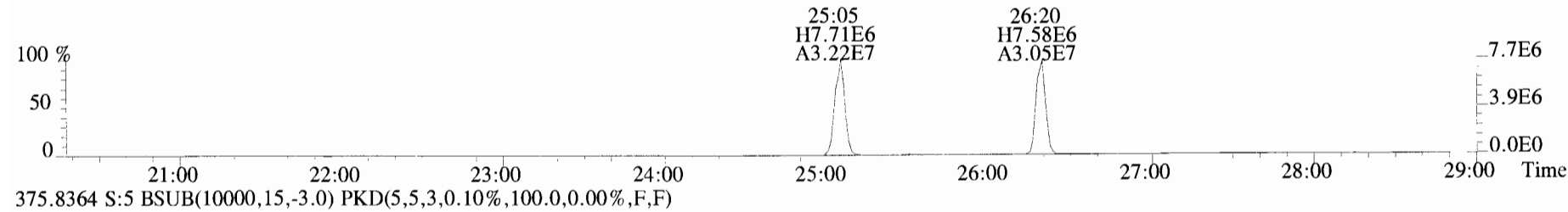
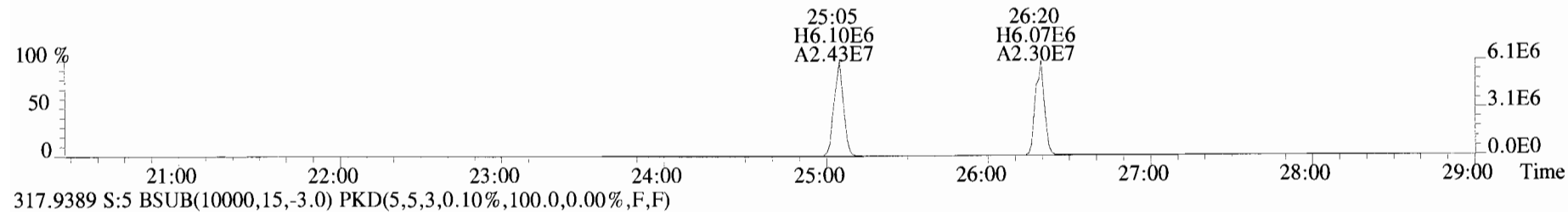
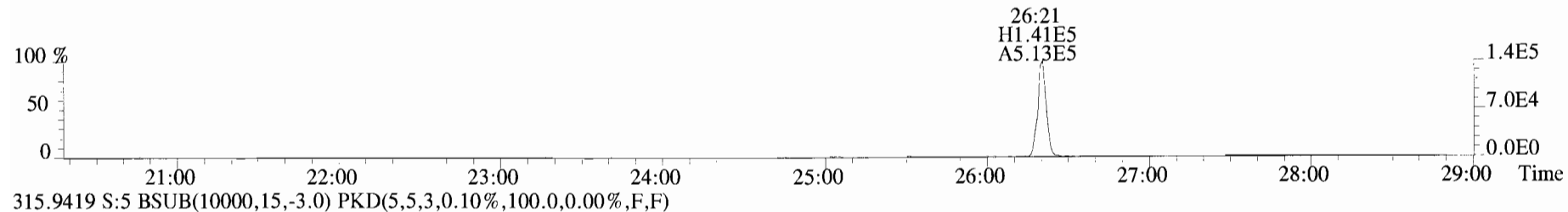
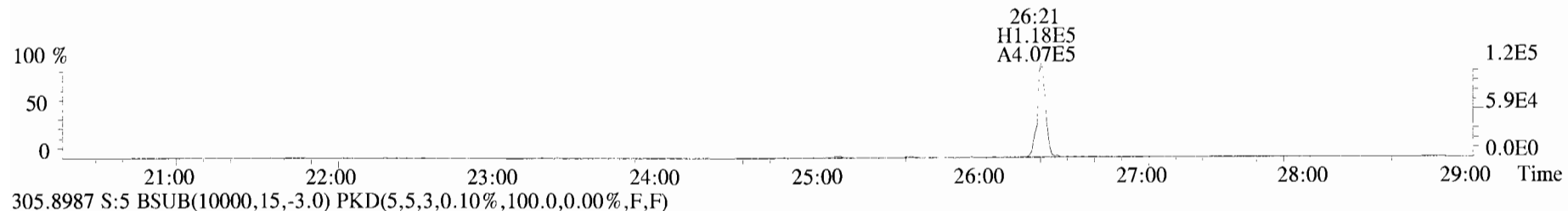
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



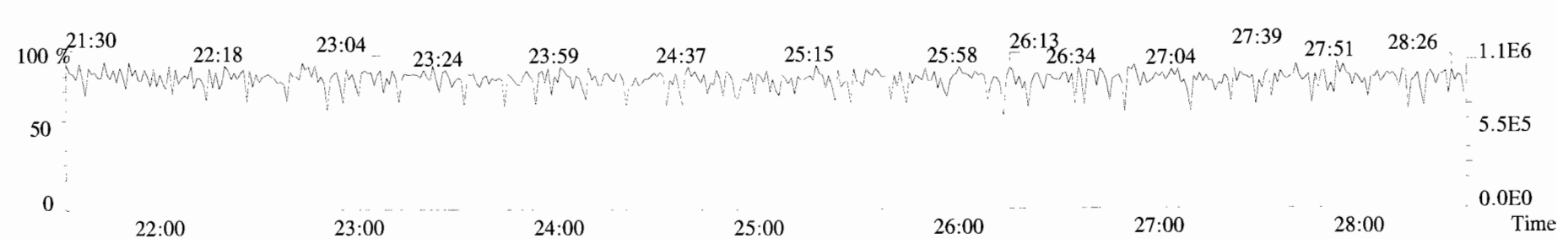
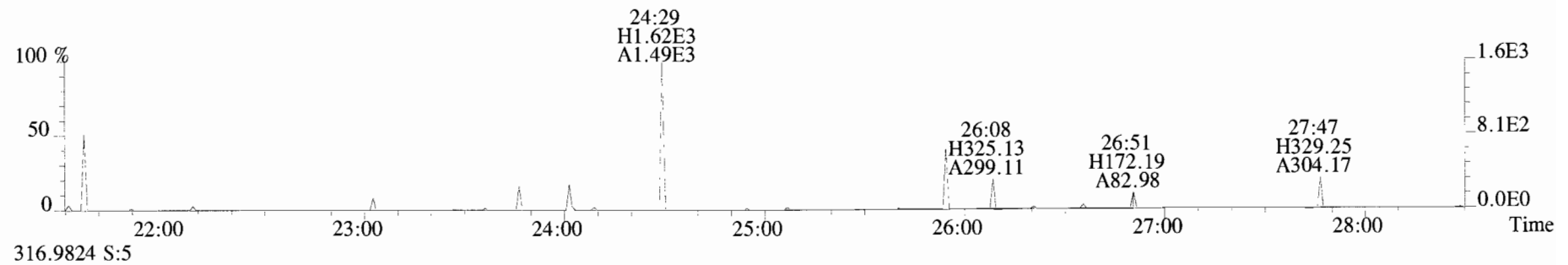
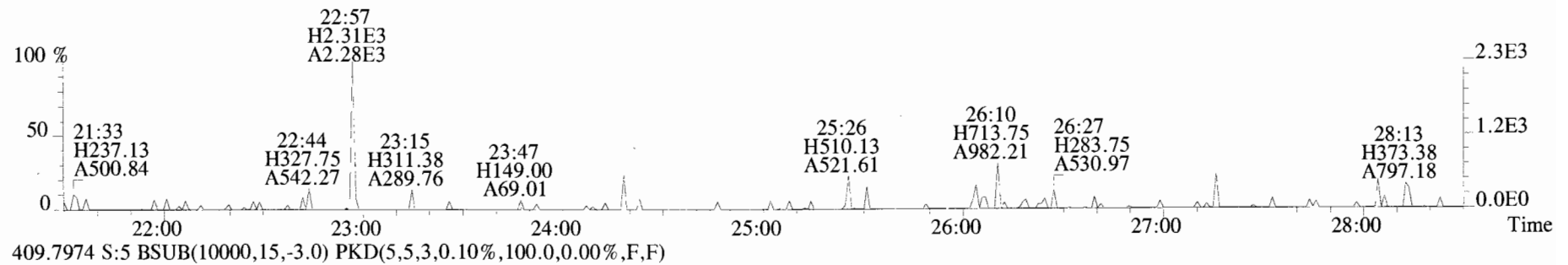
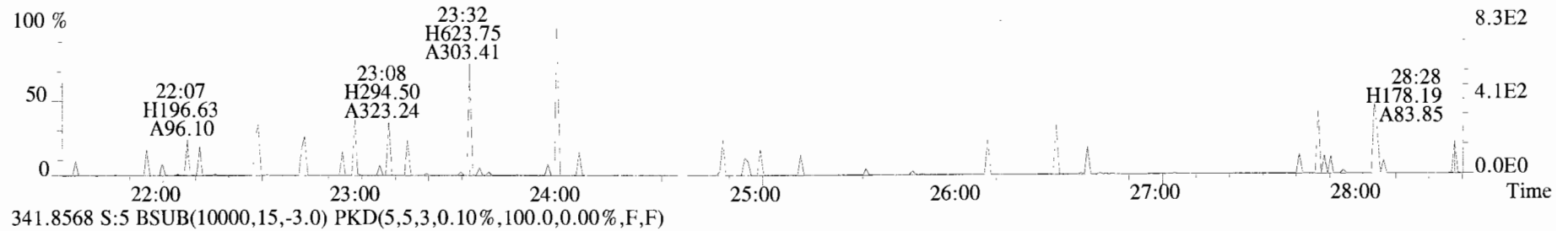
454.9728 S:5 F:5



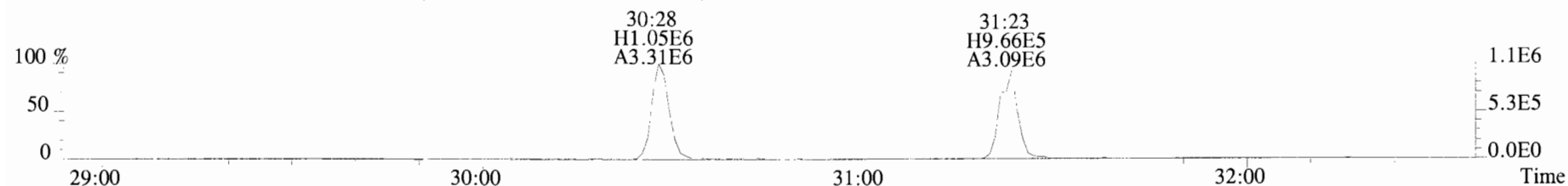
File:140417D1 #1-551 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



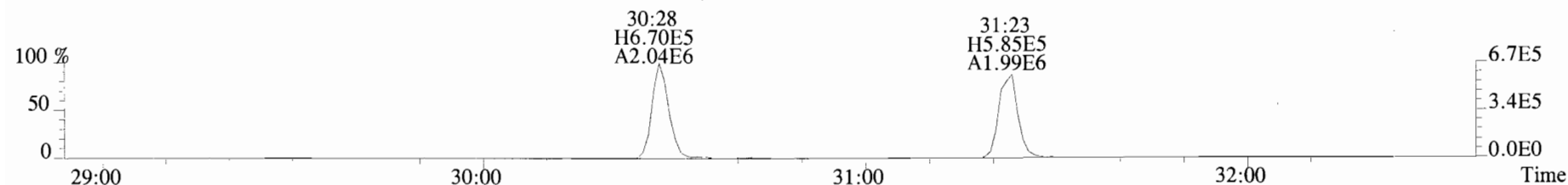
File:140417D1 #1-551 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



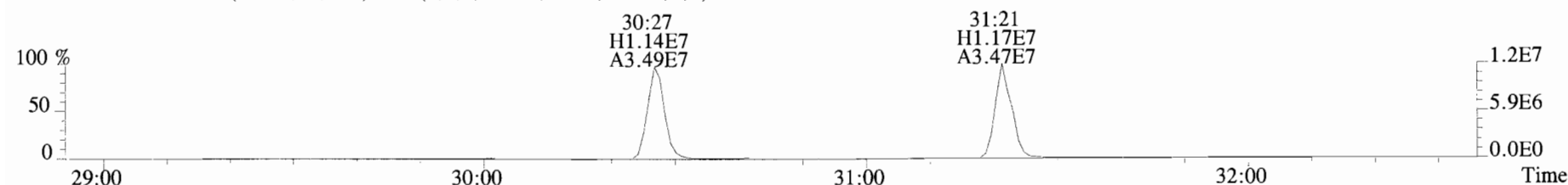
File:140417D1 #1-269 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



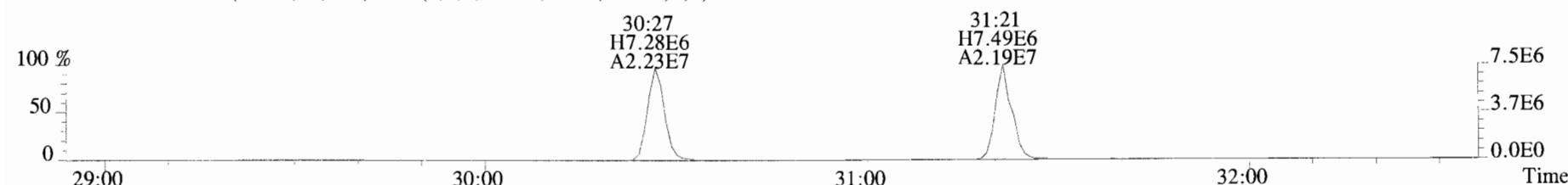
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



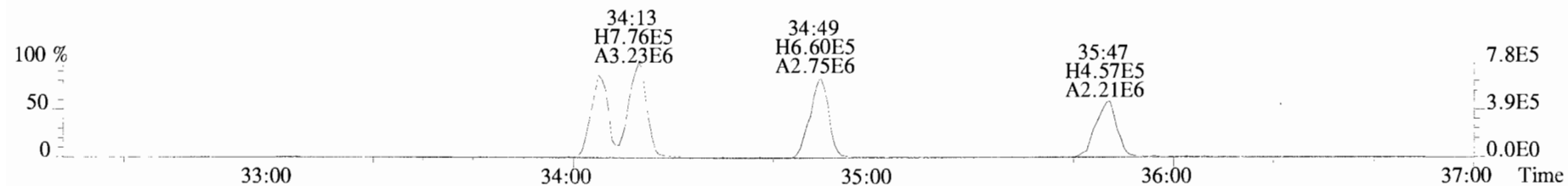
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



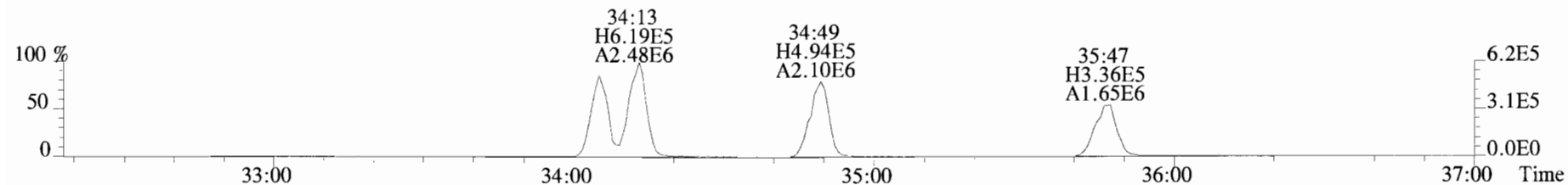
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



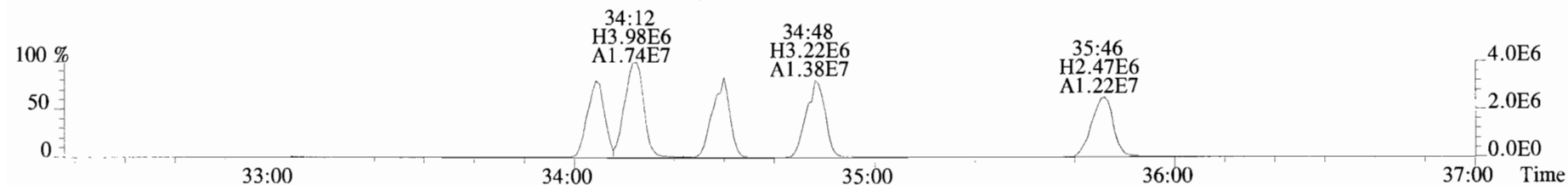
File:140417D1 #1-370 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



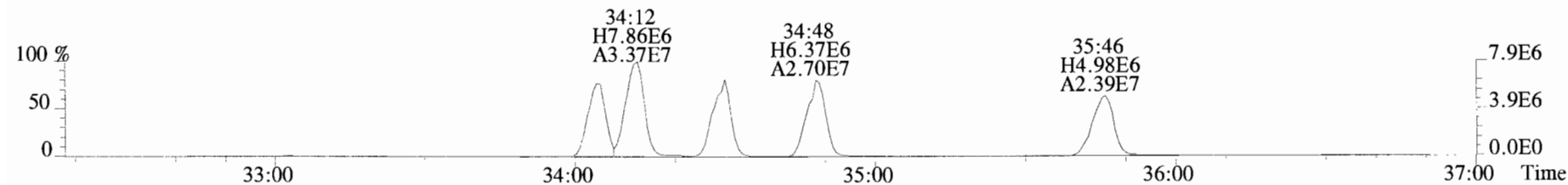
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



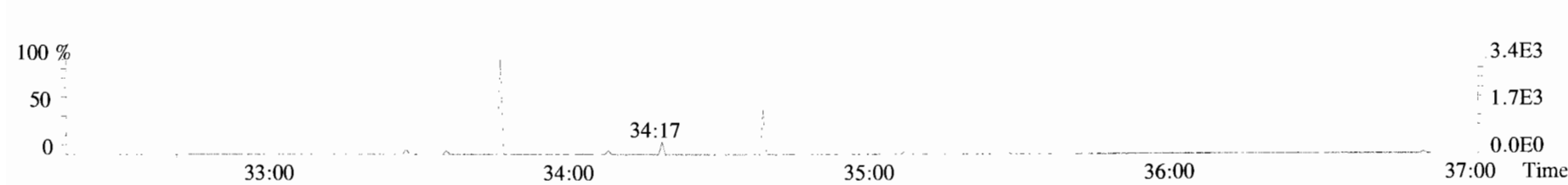
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



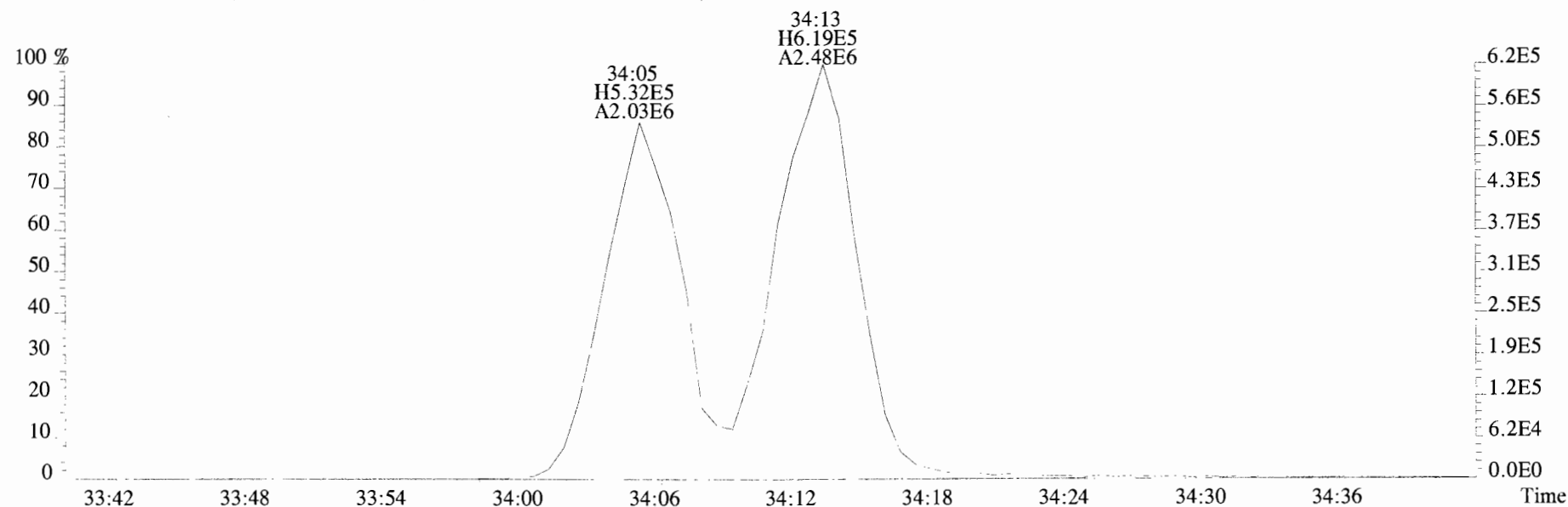
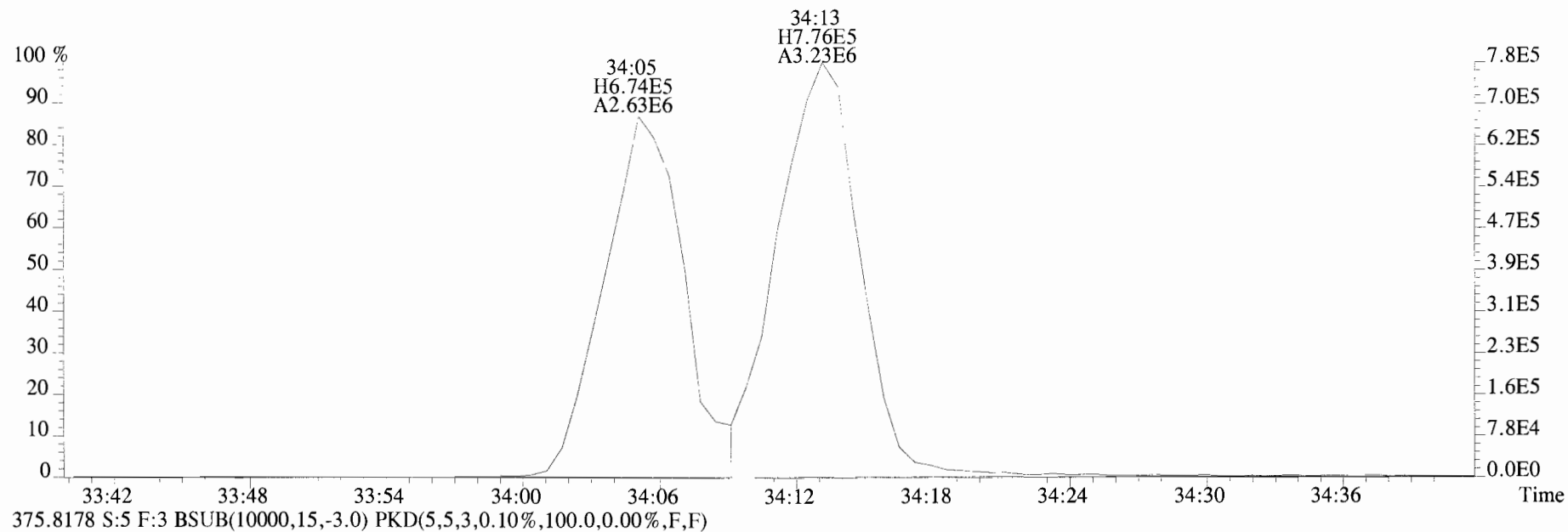
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



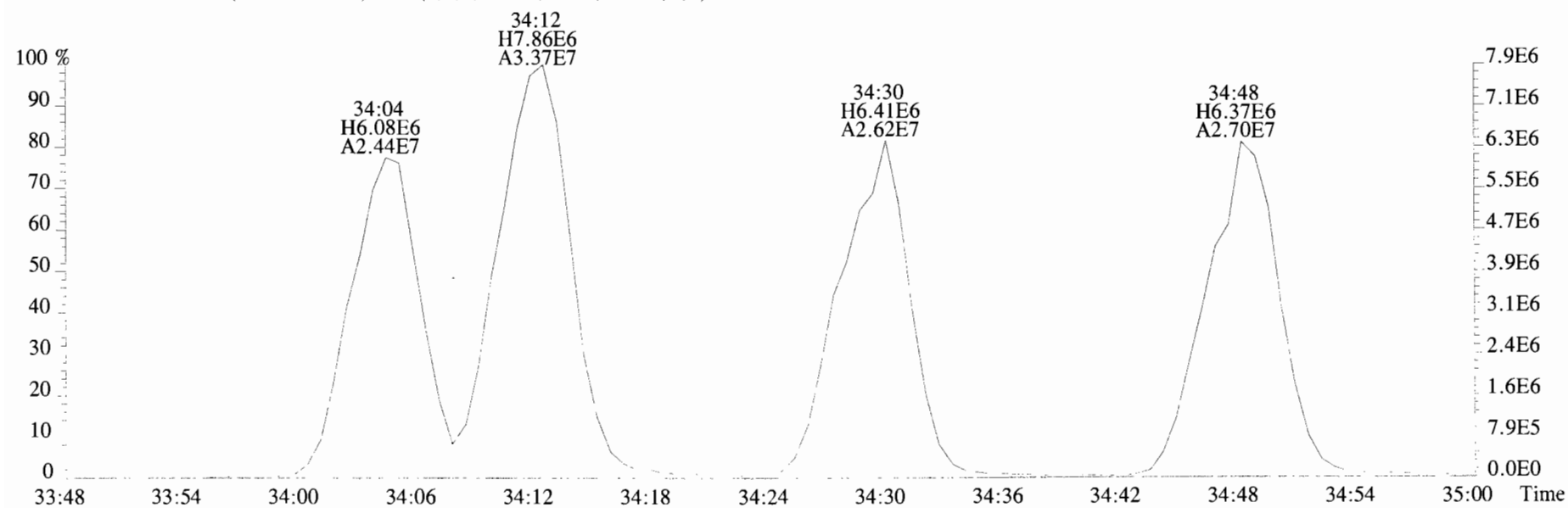
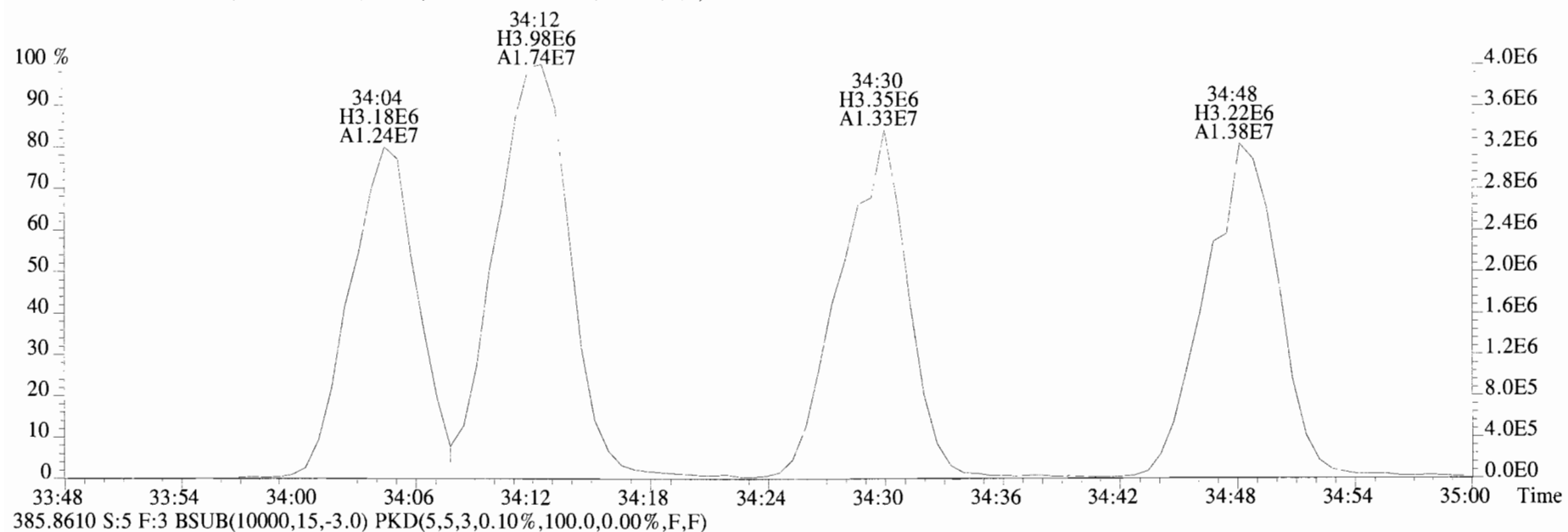
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



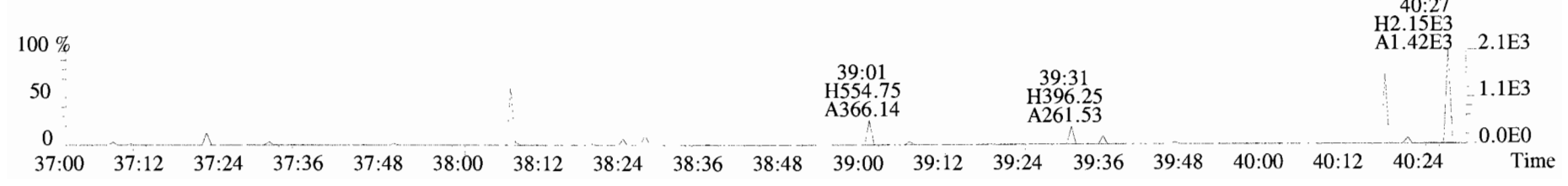
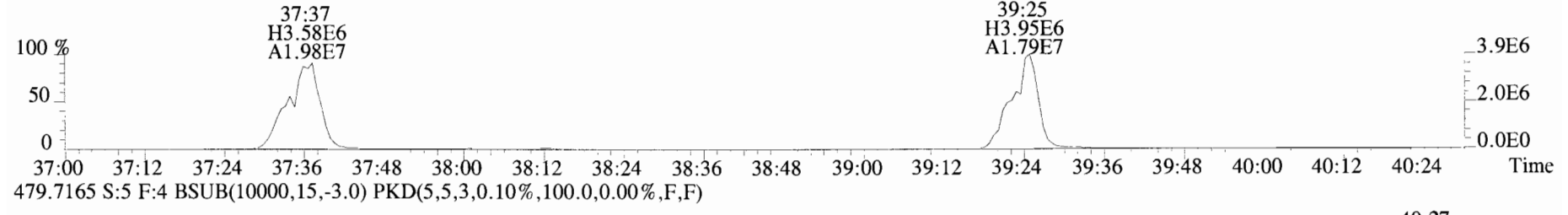
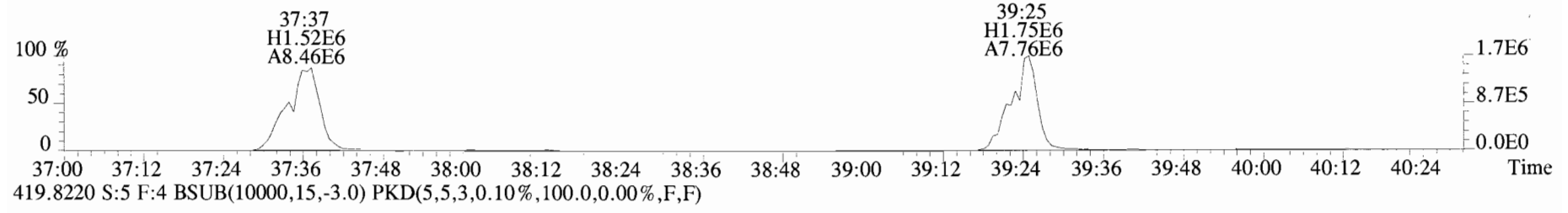
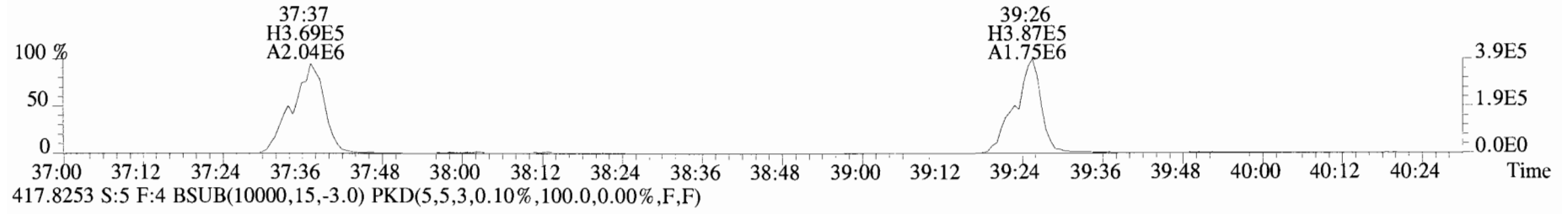
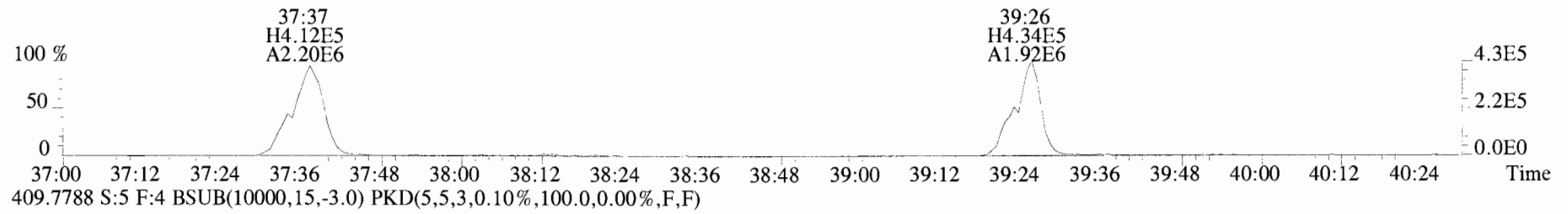
File:140417D1 #1-370 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:140417D1 #1-370 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 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)

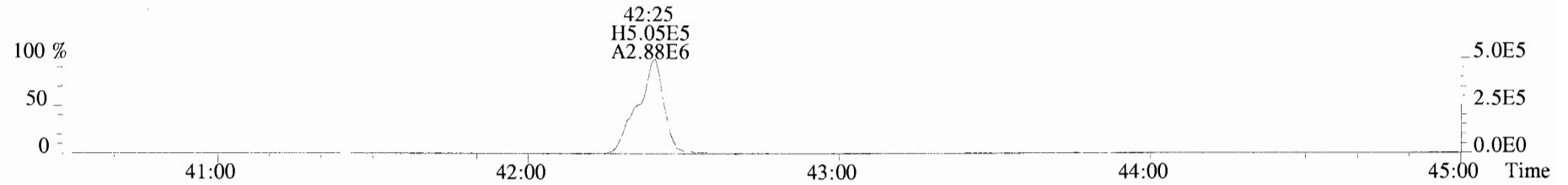


File:140417D1 #1-325 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

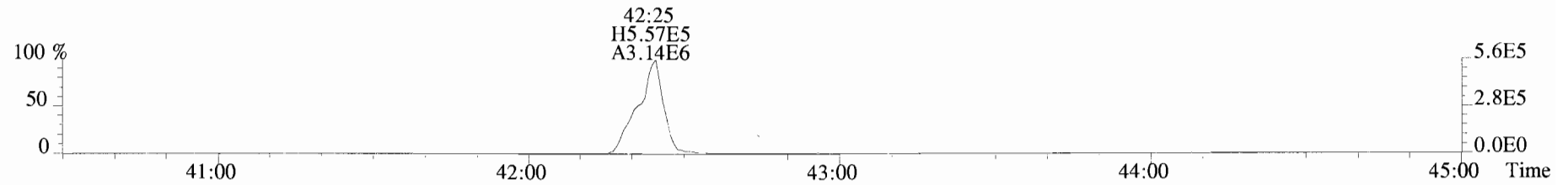




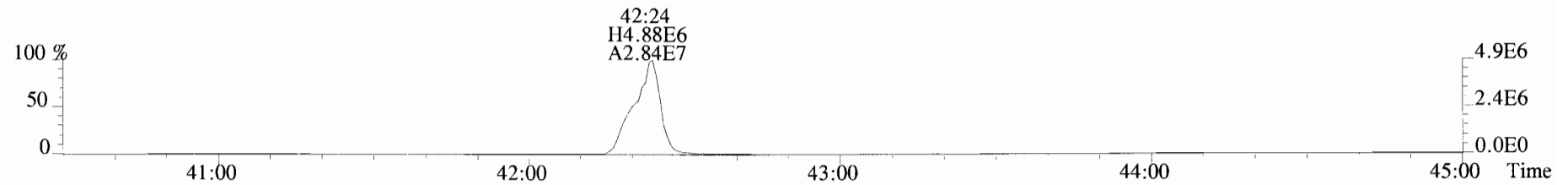
File:140417D1 #1-389 Acq:17-APR-2014 16:20:38 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-4 1613 CS2 14B1101 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



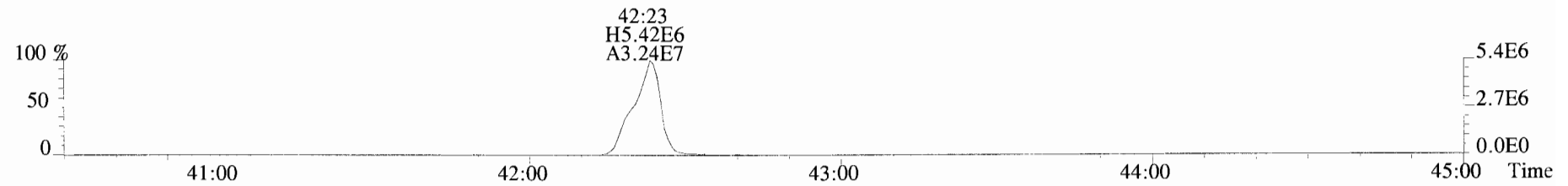
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



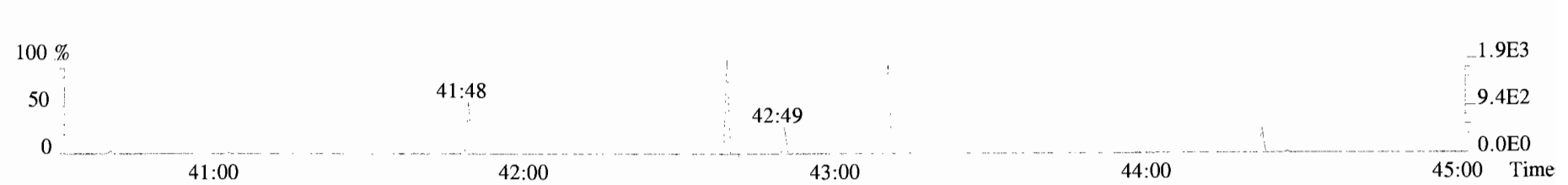
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



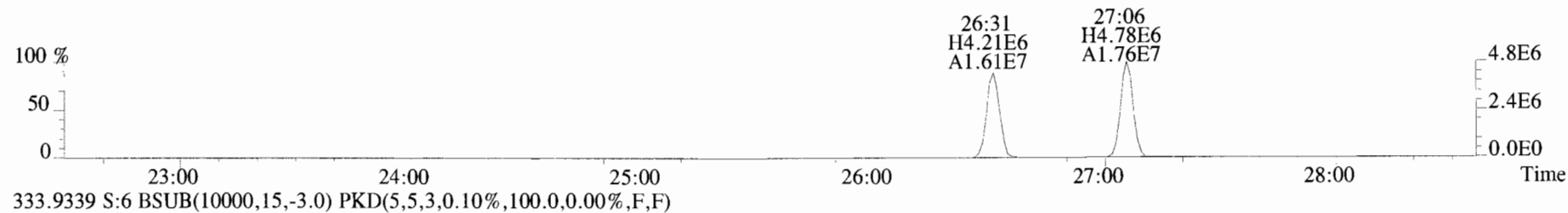
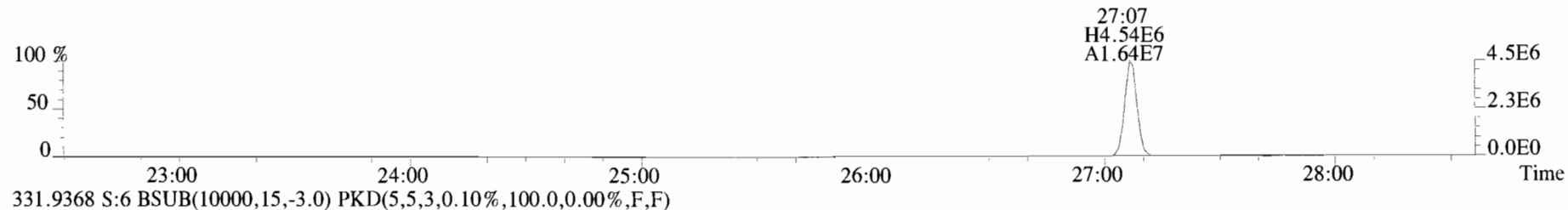
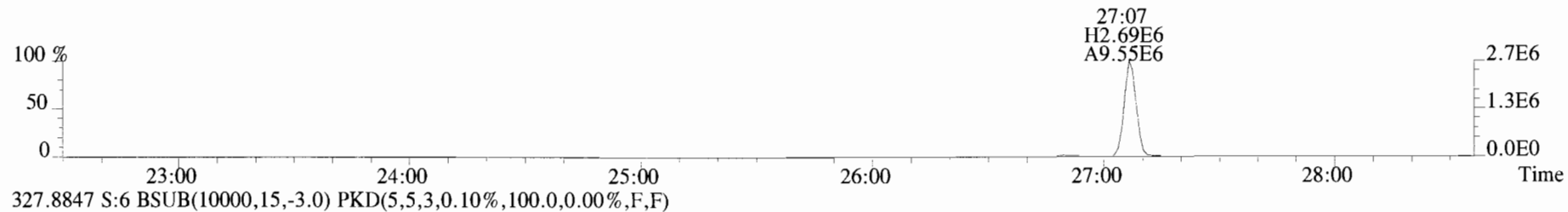
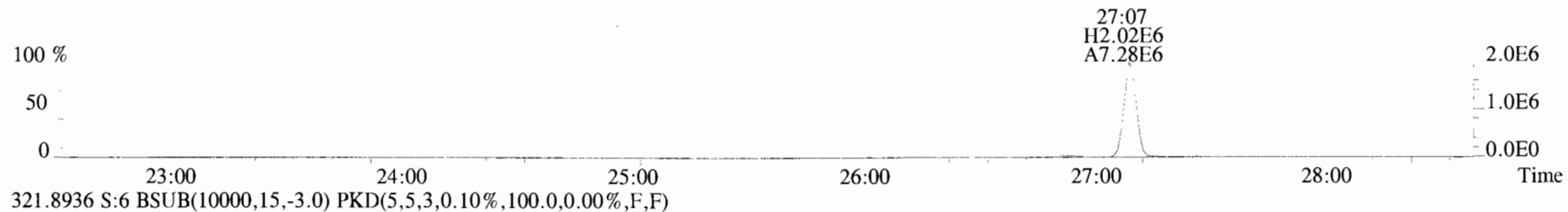
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



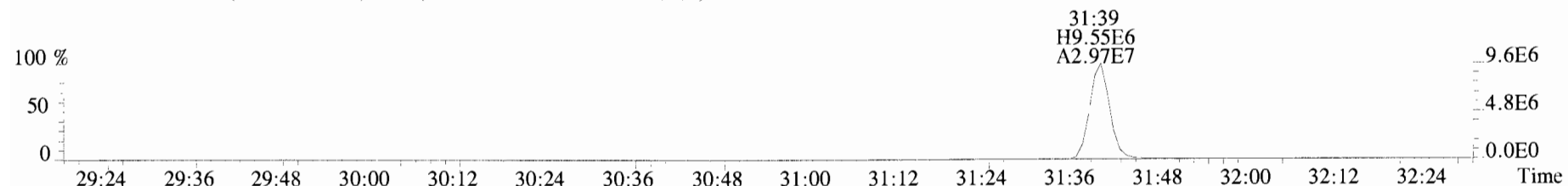
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



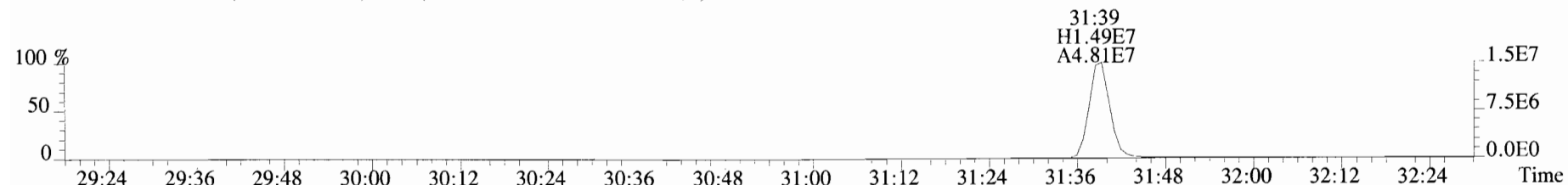
File:140417D1 #1-551 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
319.8965 S:6 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



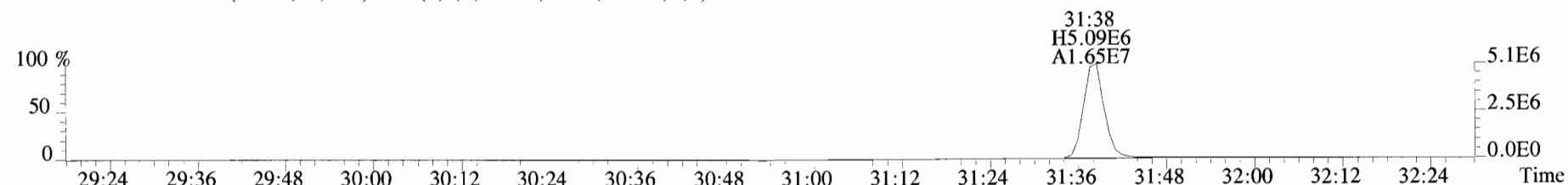
File:140417D1 #1-269 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



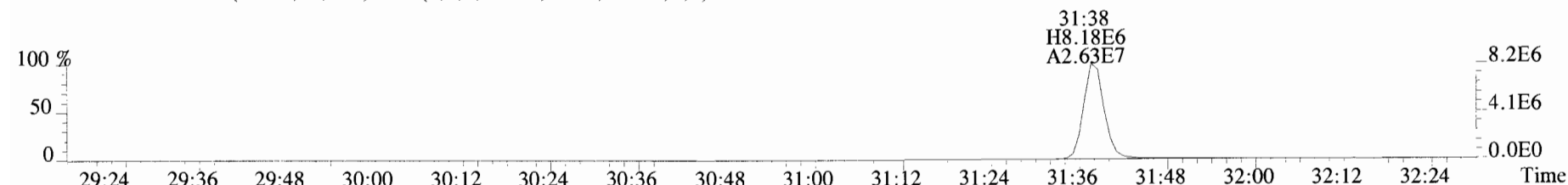
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



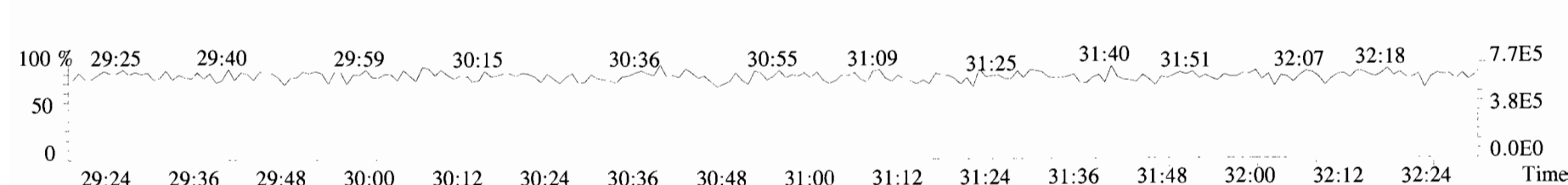
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



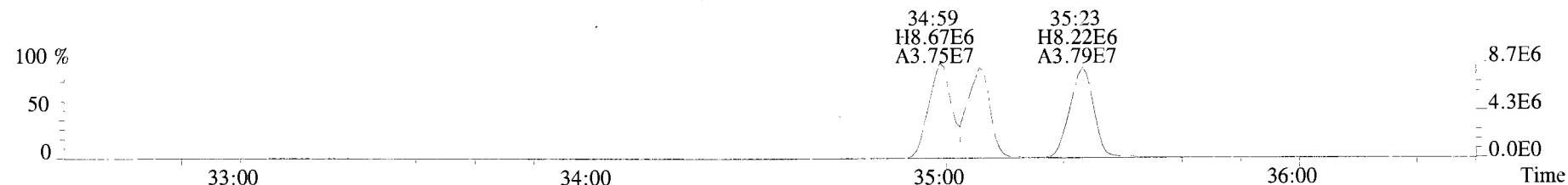
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



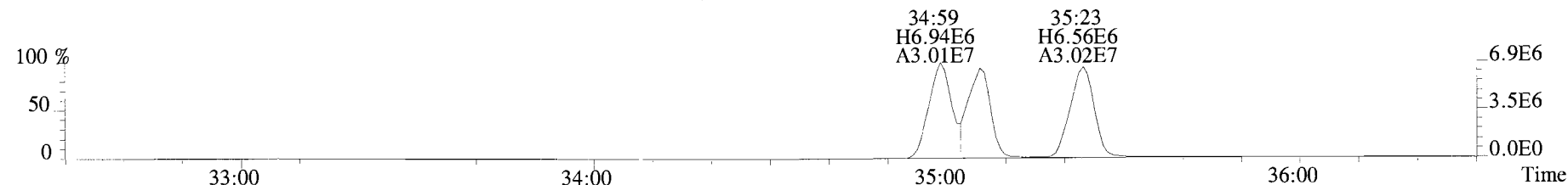
366.9792 S:6 F:2



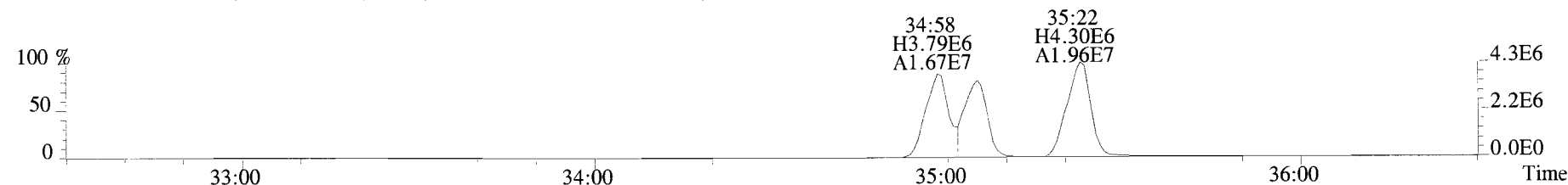
File:140417D1 #1-370 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



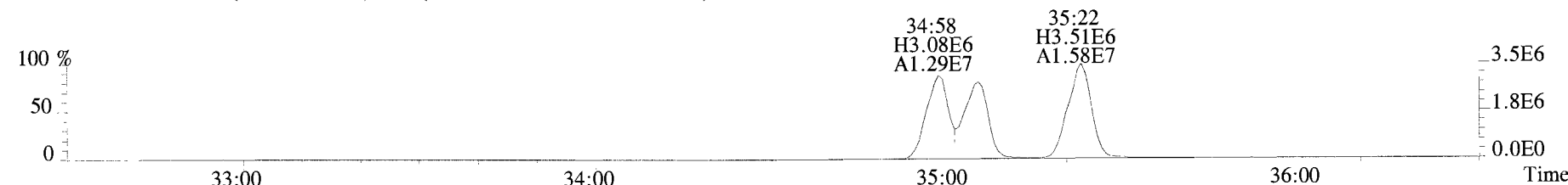
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



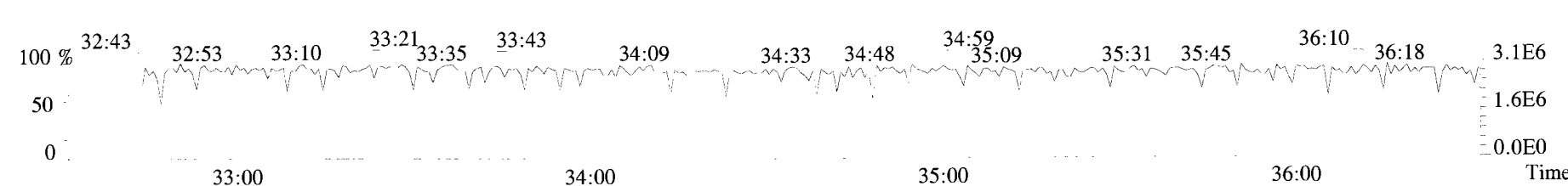
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



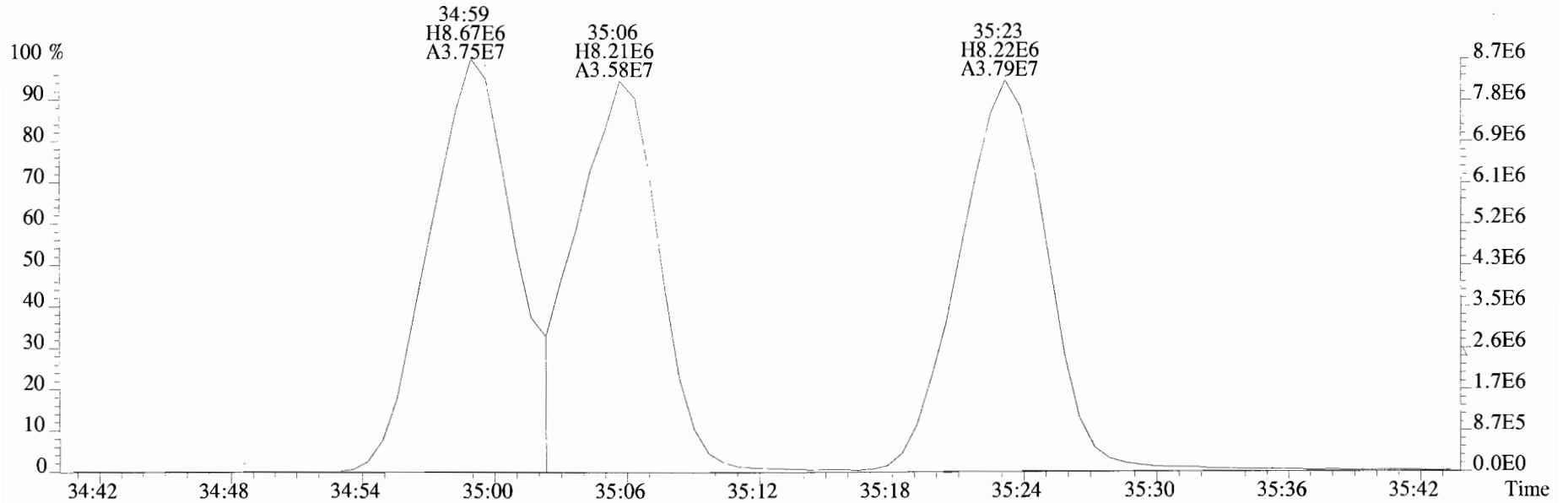
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



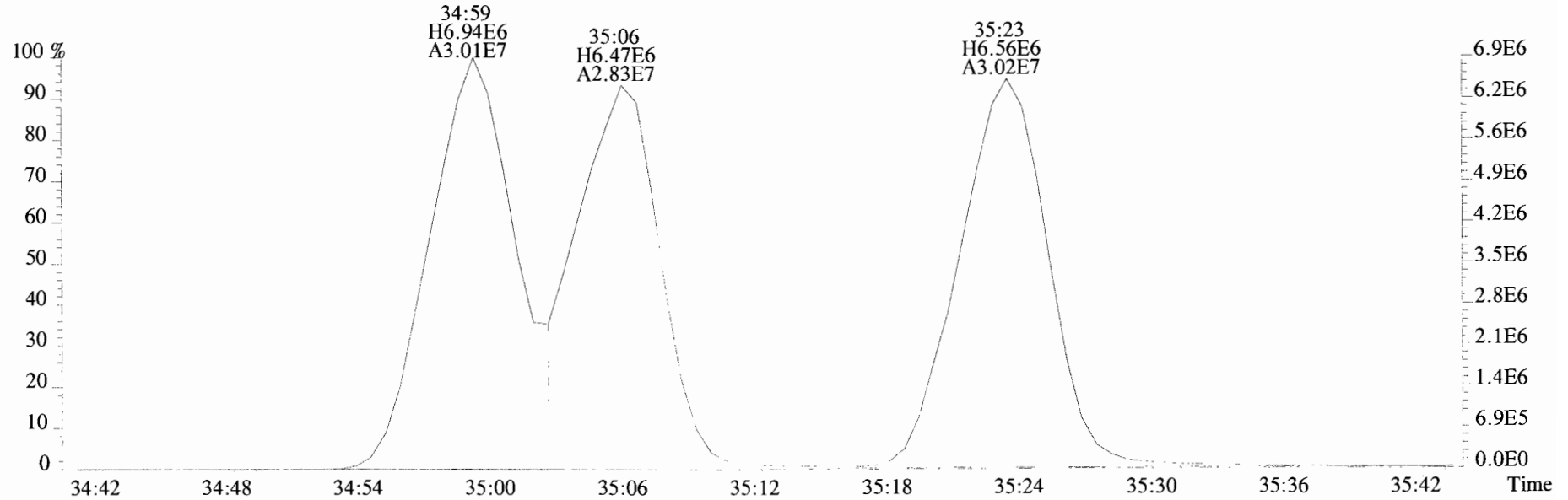
380.9760 S:6 F:3



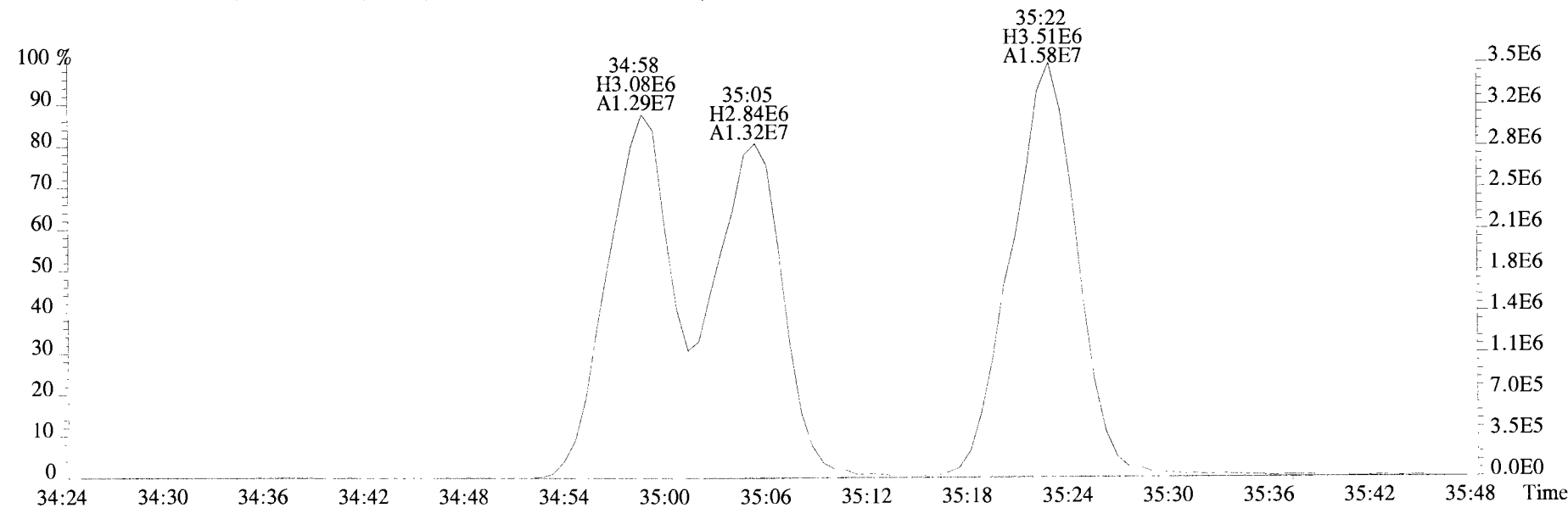
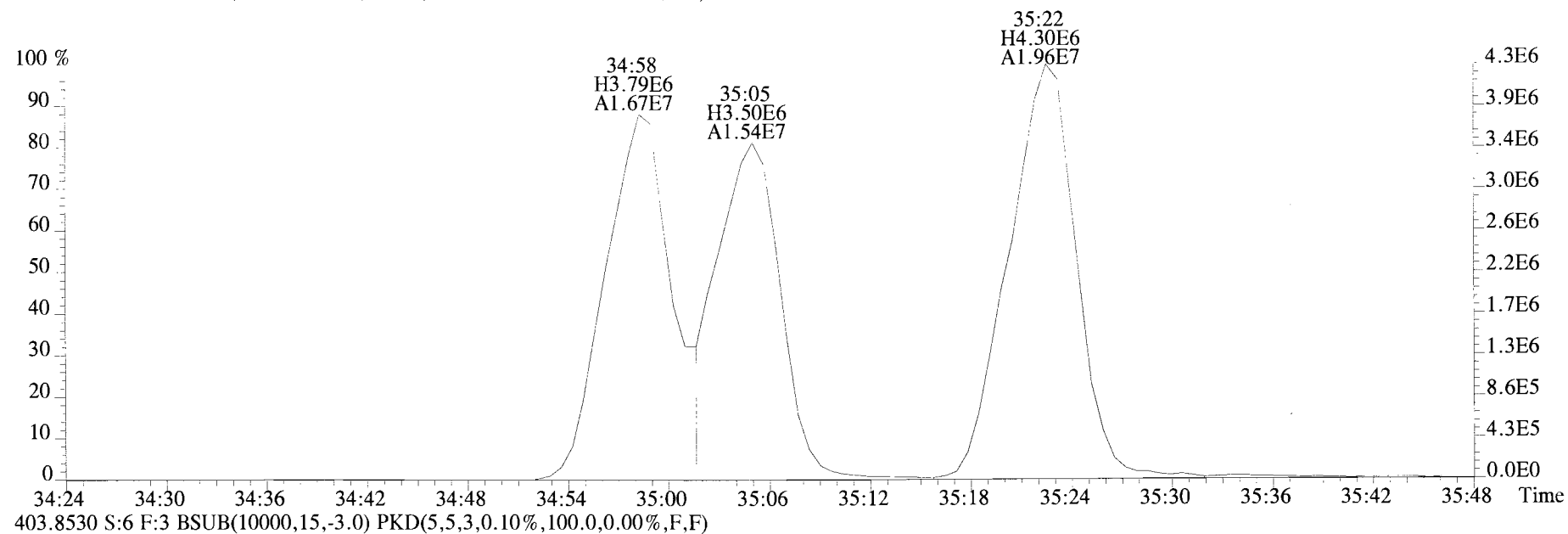
File:140417D1 #1-370 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



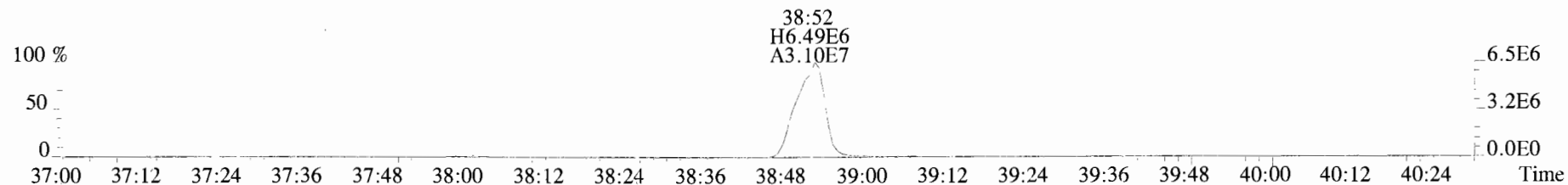
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



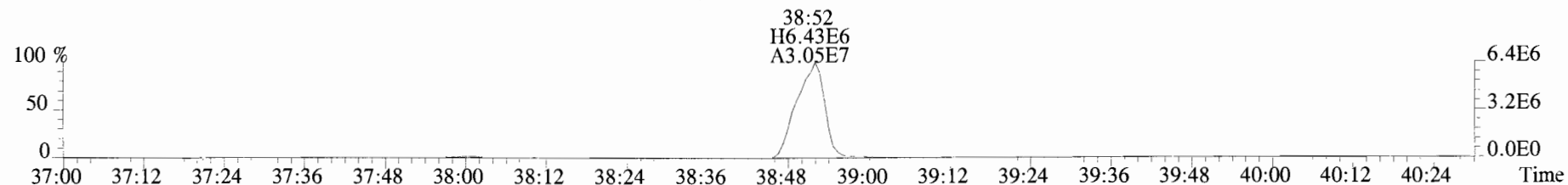
File:140417D1 #1-370 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



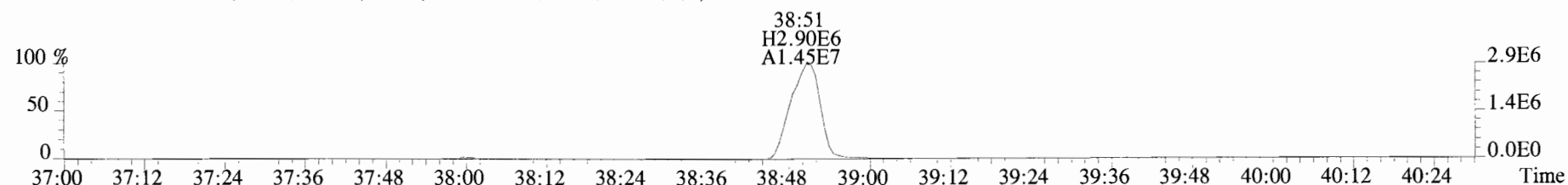
File:140417D1 #1-325 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



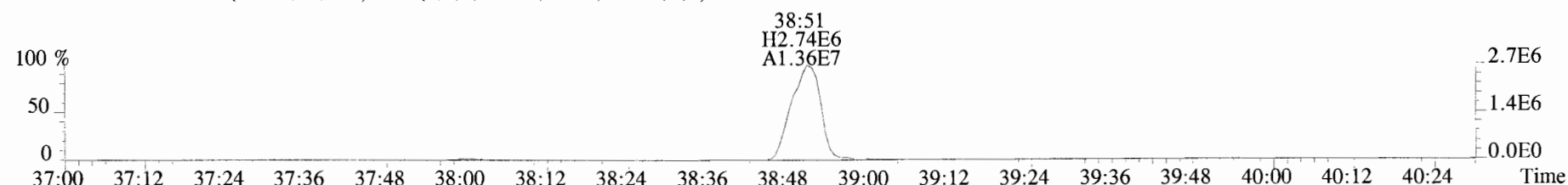
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



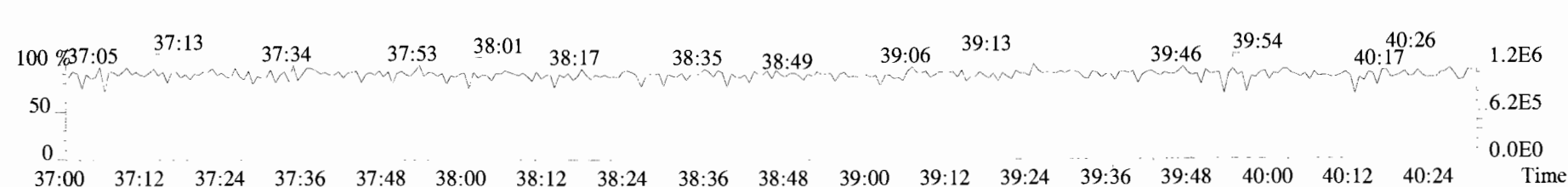
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



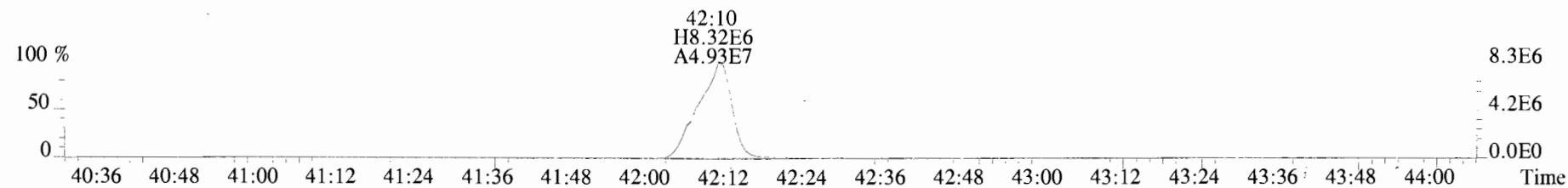
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



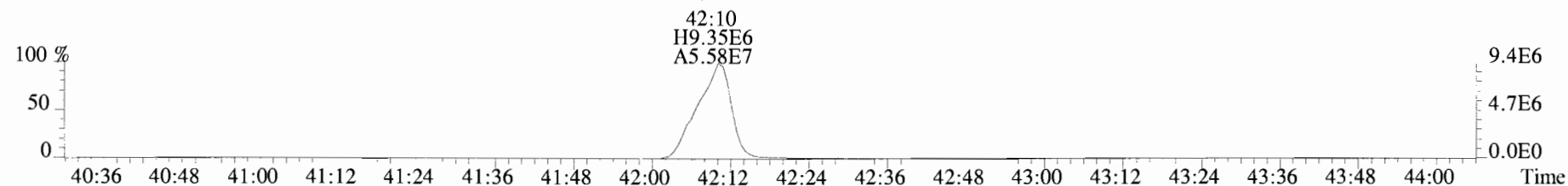
430.9728 S:6 F:4



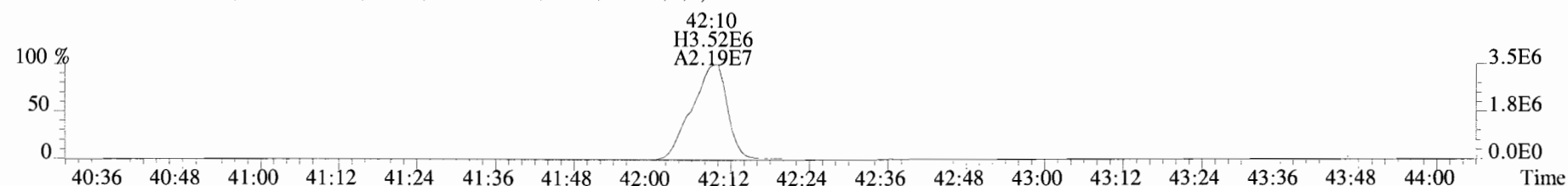
File:140417D1 #1-389 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



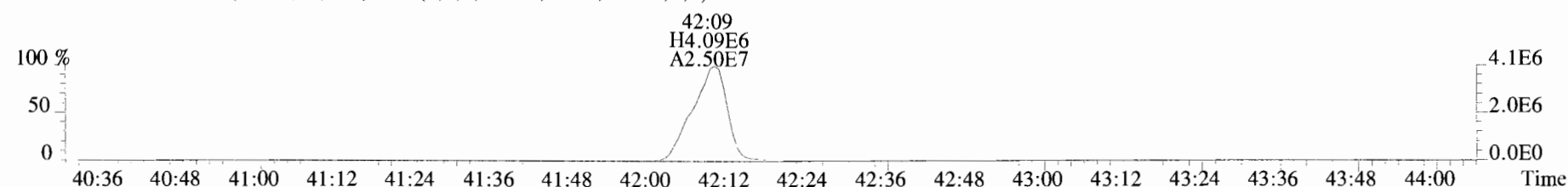
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



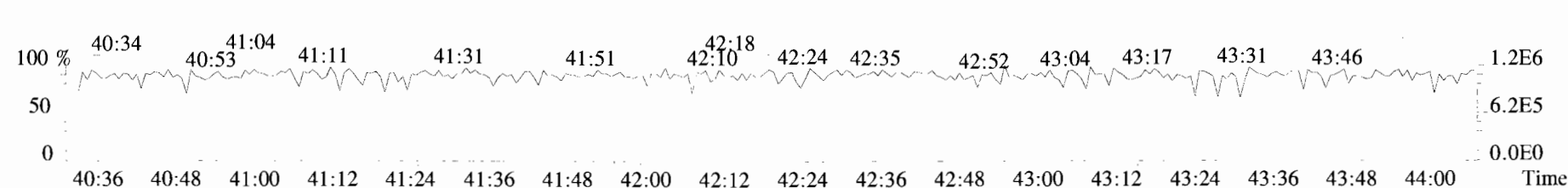
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

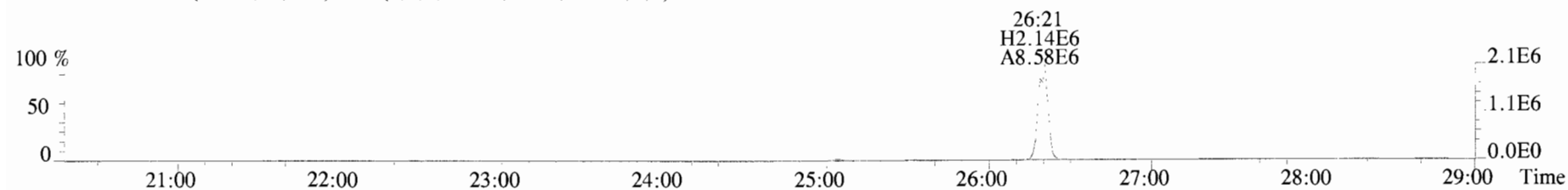


454.9728 S:6 F:5

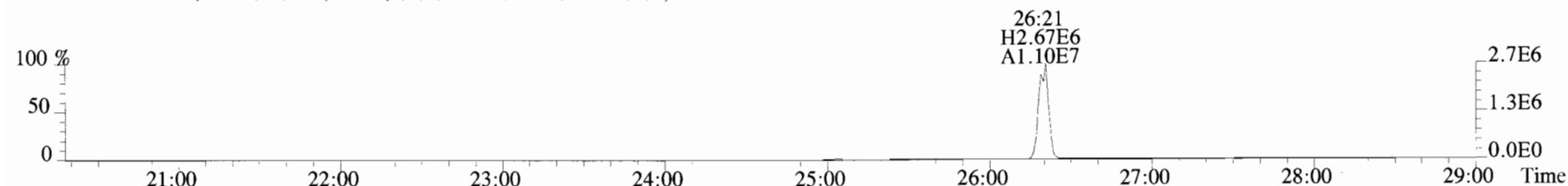




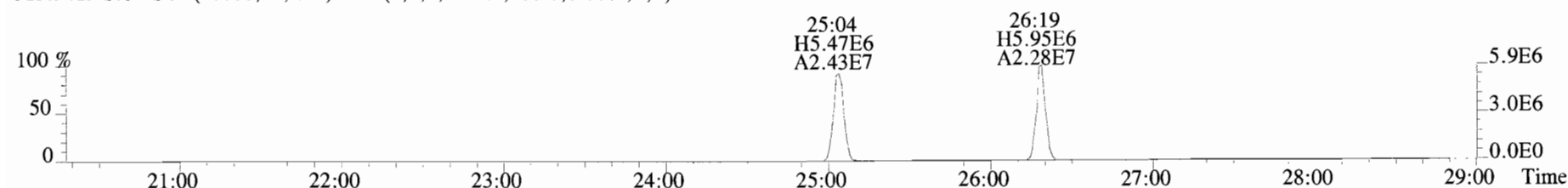
File:140417D1 #1-551 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



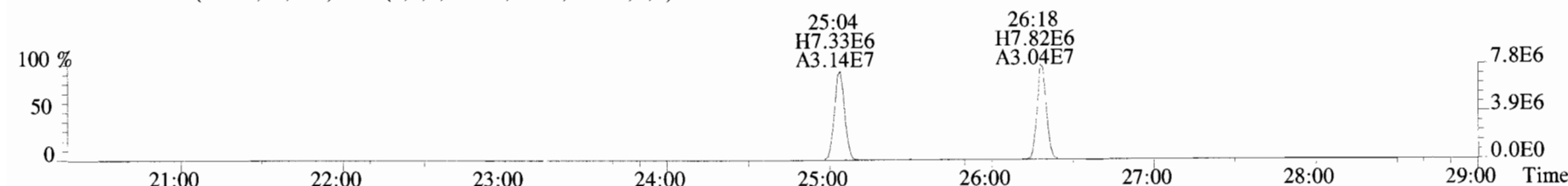
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



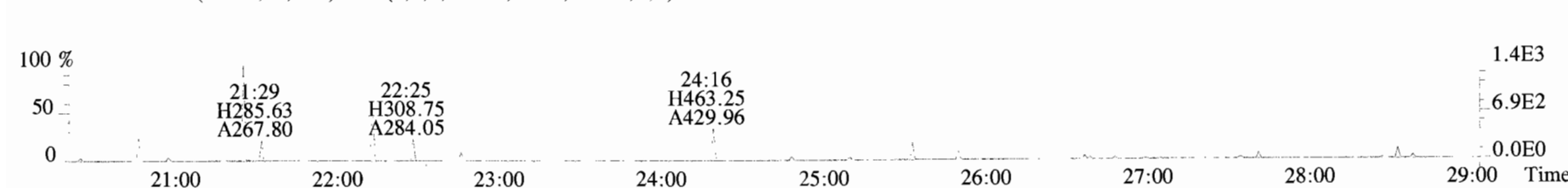
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



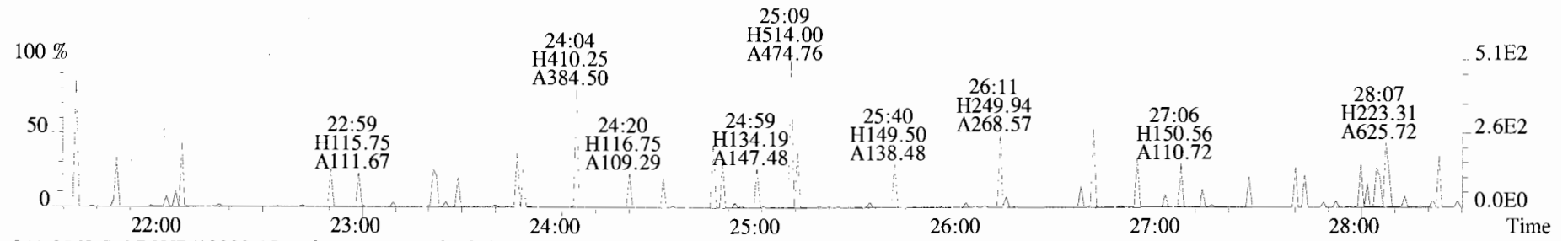
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



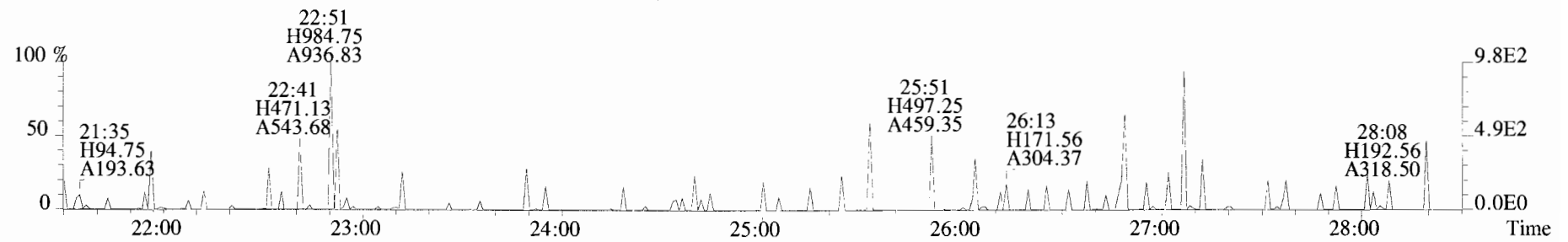
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



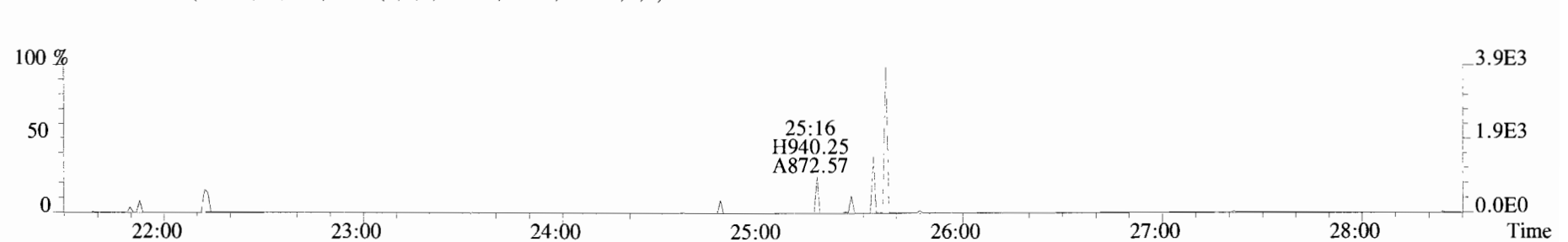
File:140417D1 #1-551 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



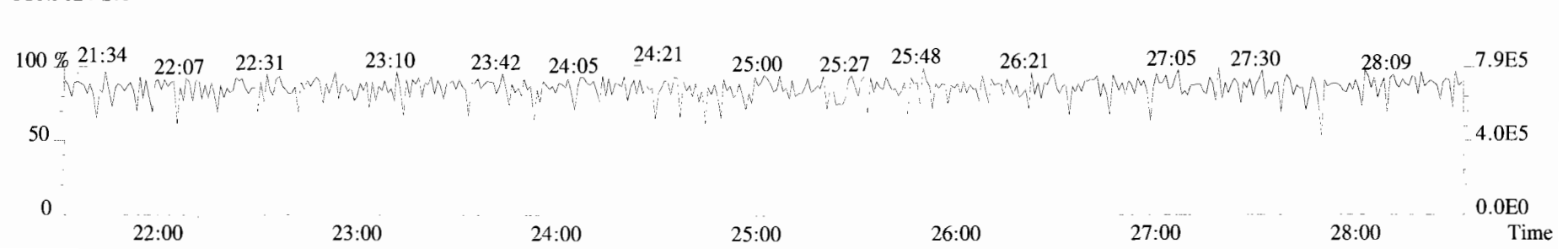
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



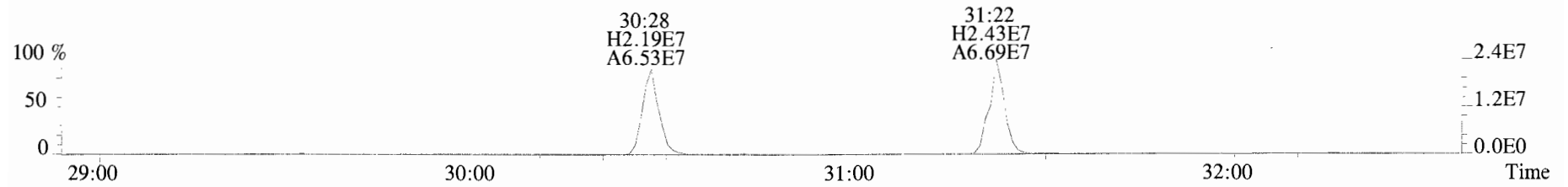
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



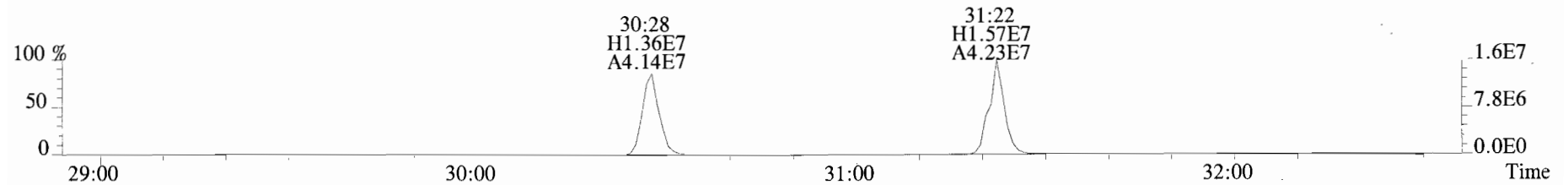
316.9824 S:6



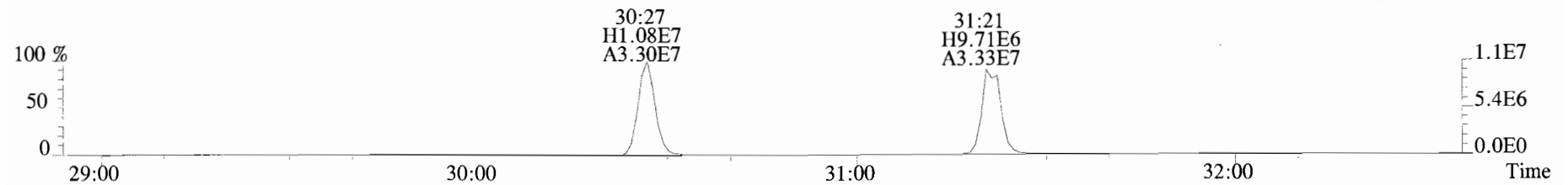
File:140417D1 #1-269 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



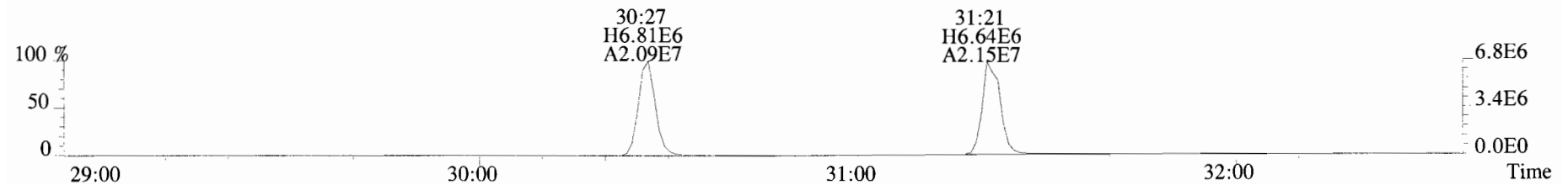
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



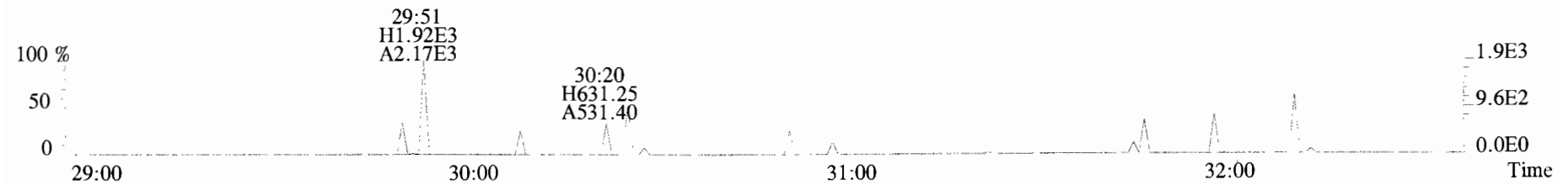
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



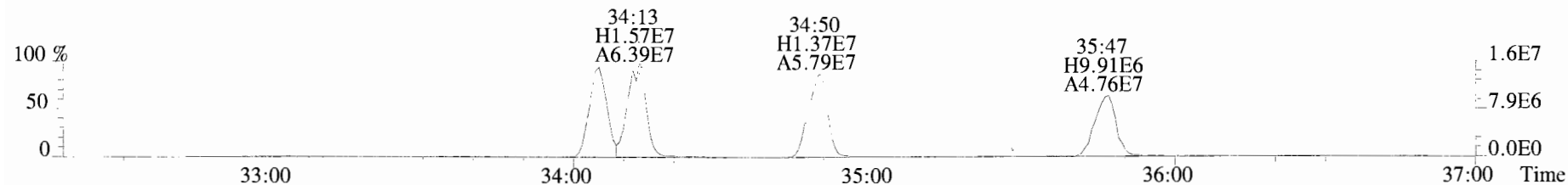
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



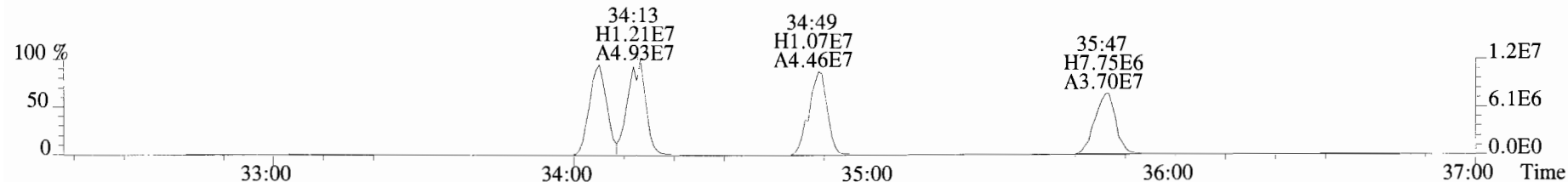
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



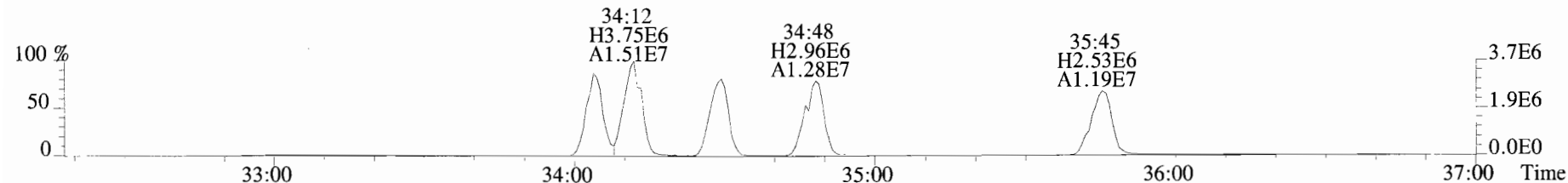
File:140417D1 #1-370 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



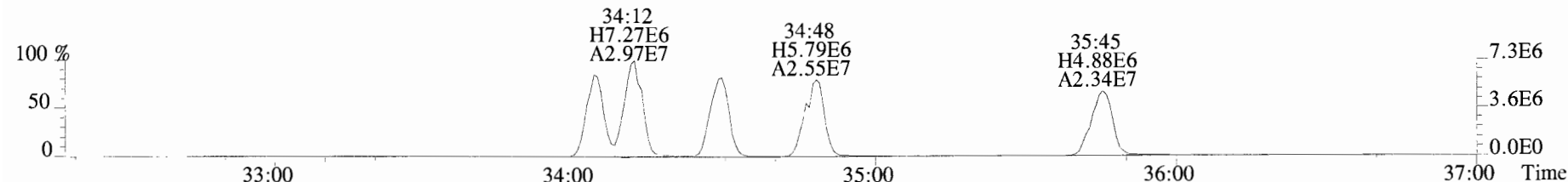
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



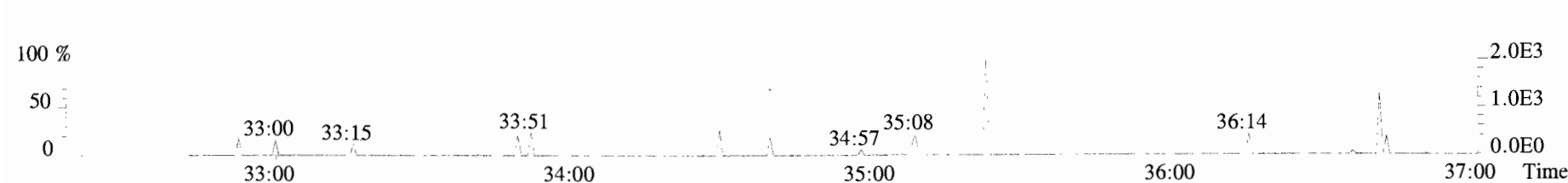
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



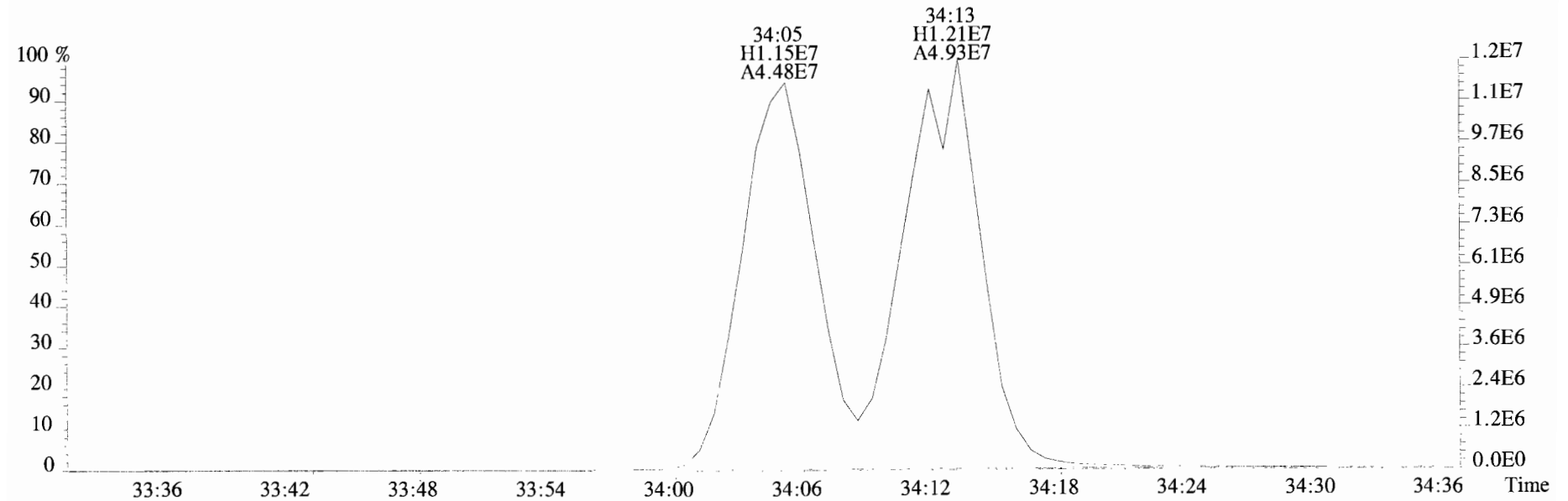
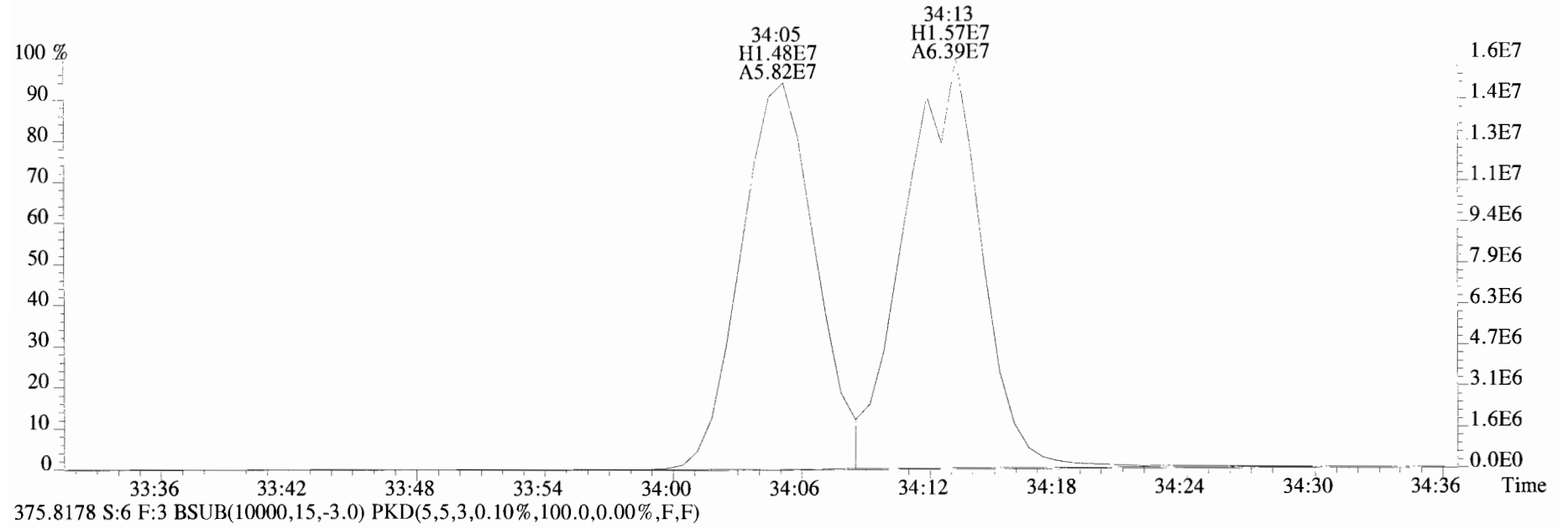
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



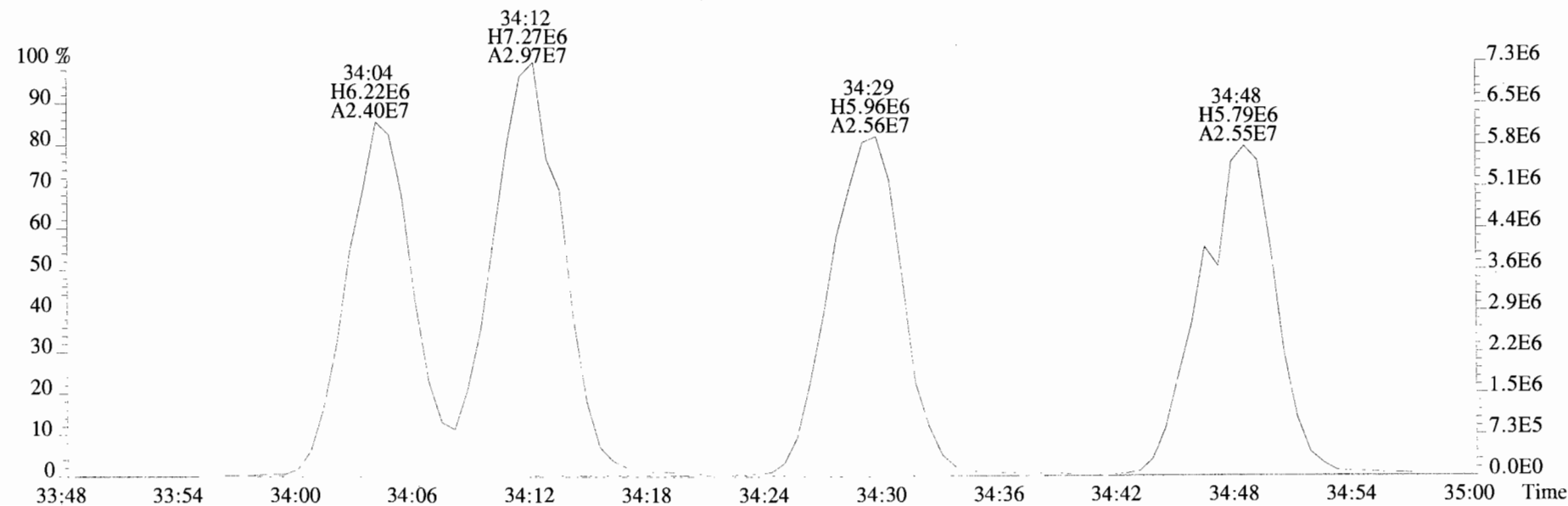
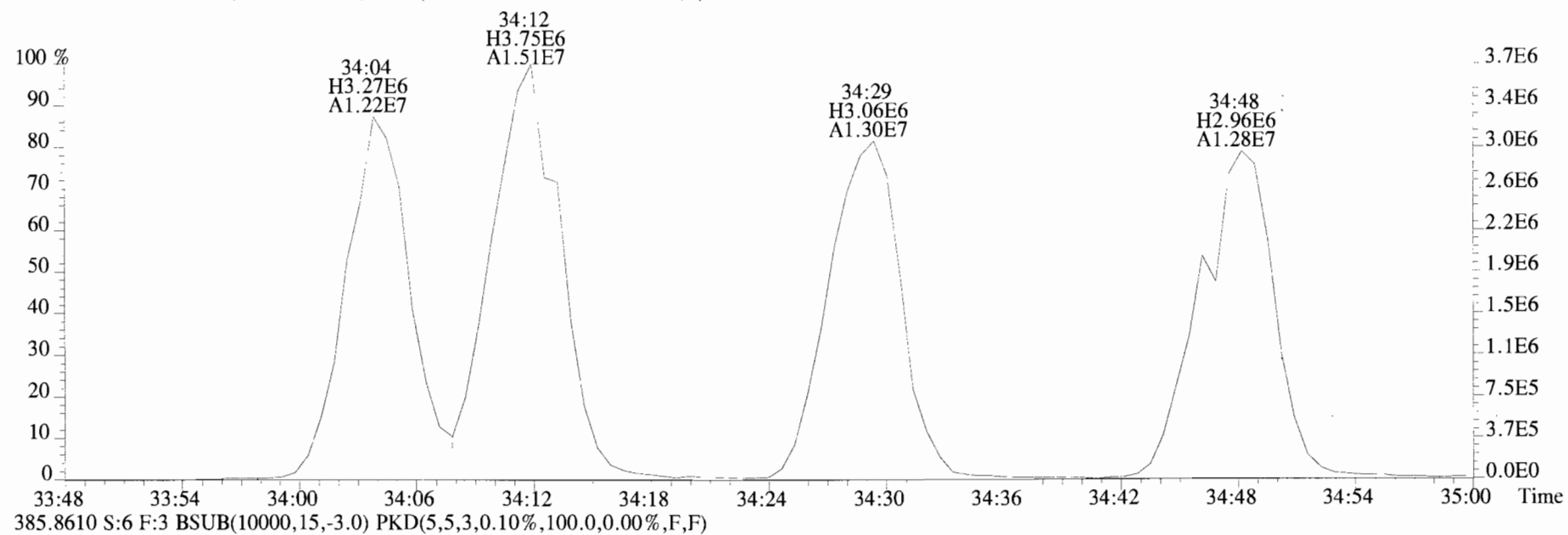
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



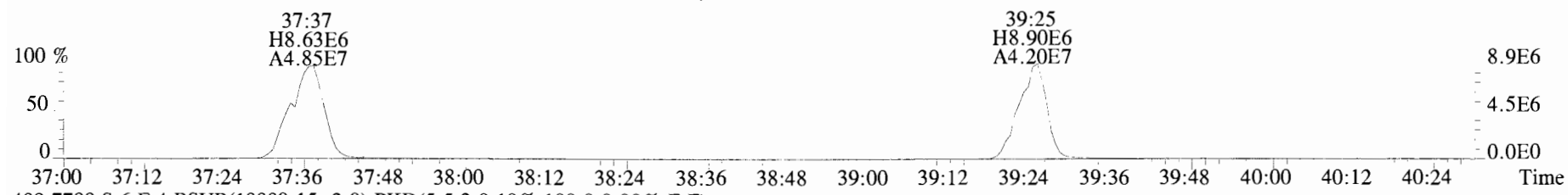
File:140417D1 #1-370 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



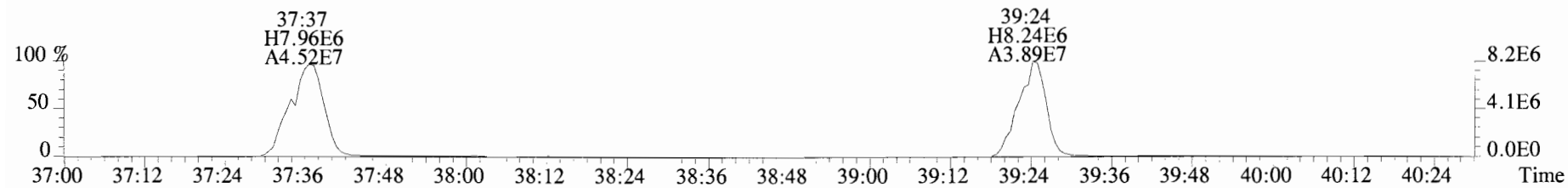
File:140417D1 #1-370 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



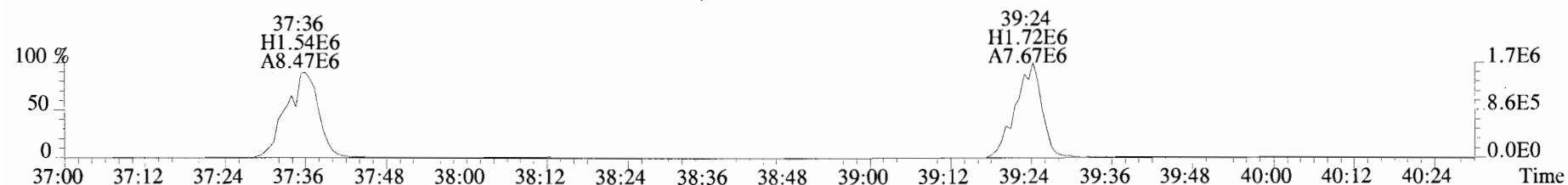
File:140417D1 #1-325 Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



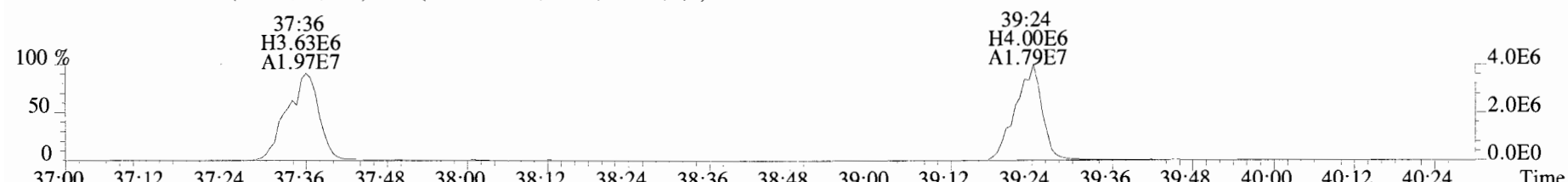
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



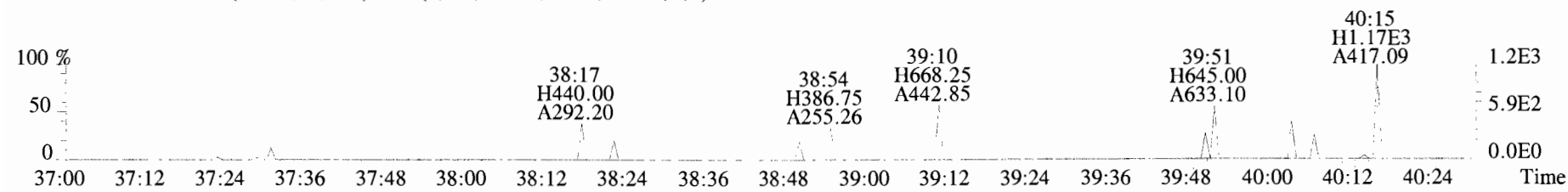
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



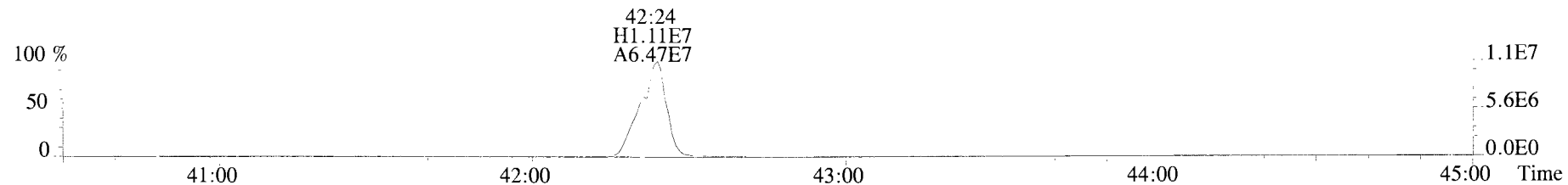
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



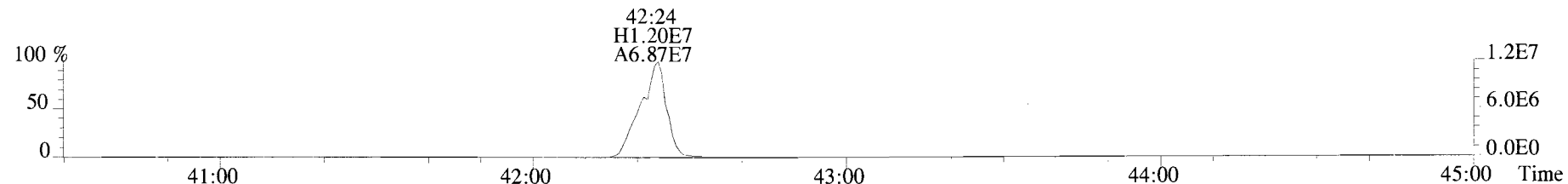
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



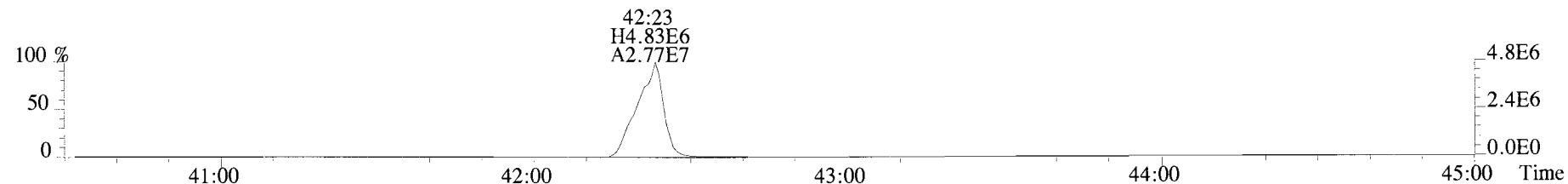
File:140417D1 #1-389-Acq:17-APR-2014 17:09:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-5 1613 CS4 13L1812 Exp:OCDD\_DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



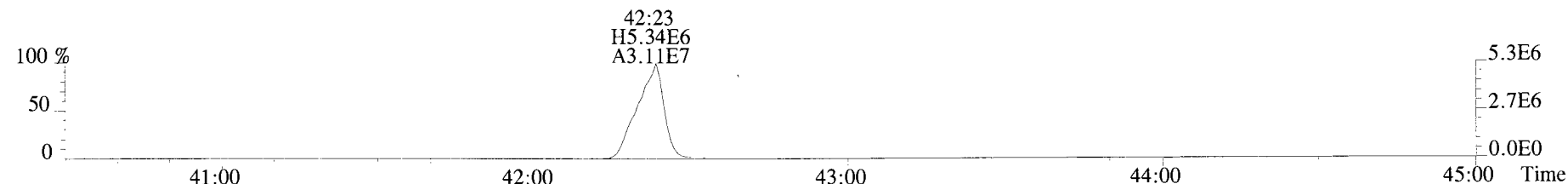
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



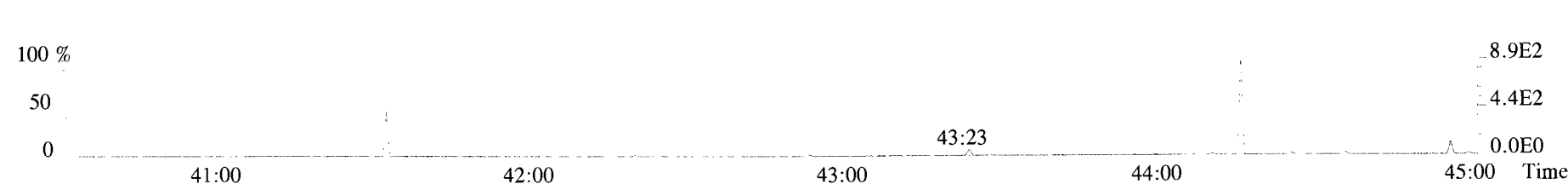
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

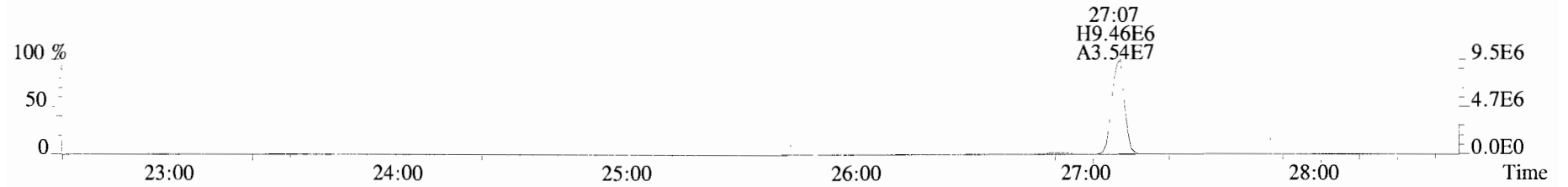


513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

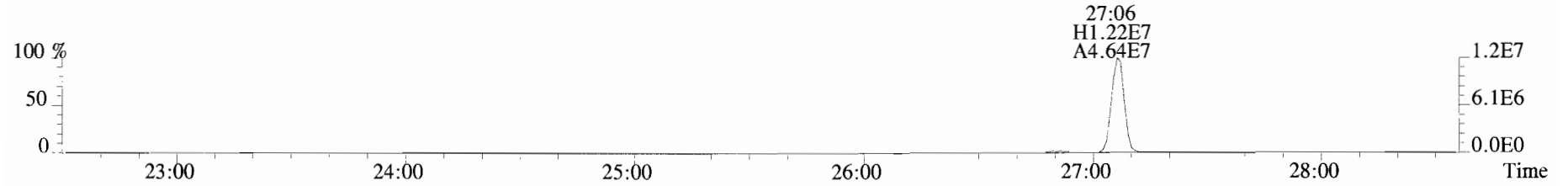




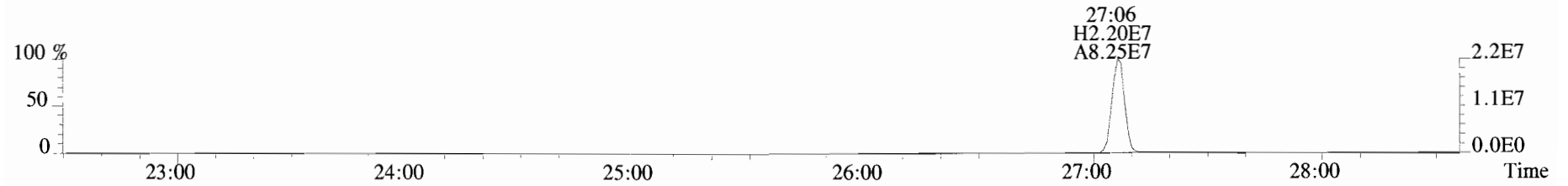
File:140417D1 #1-551 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



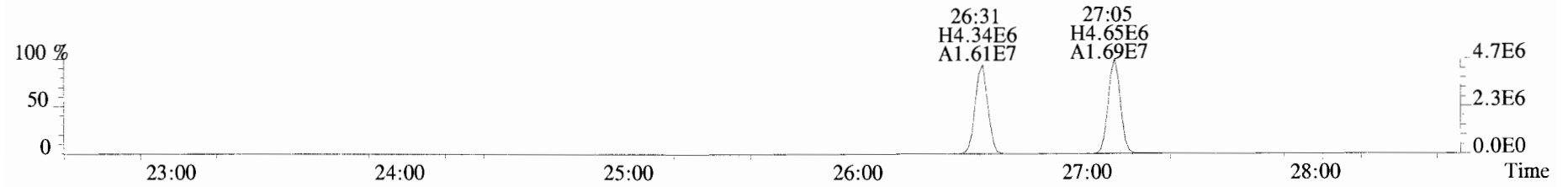
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



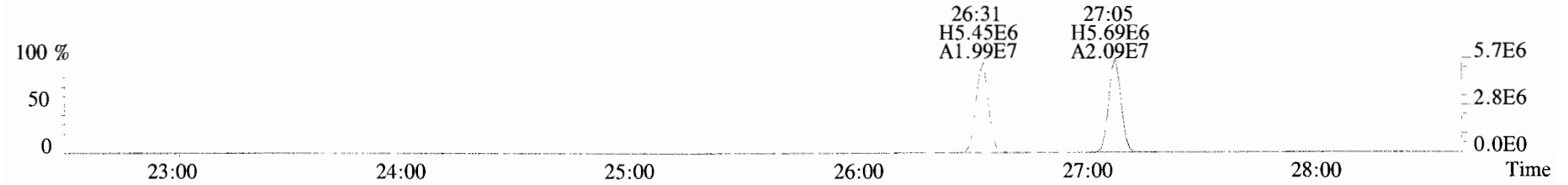
327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



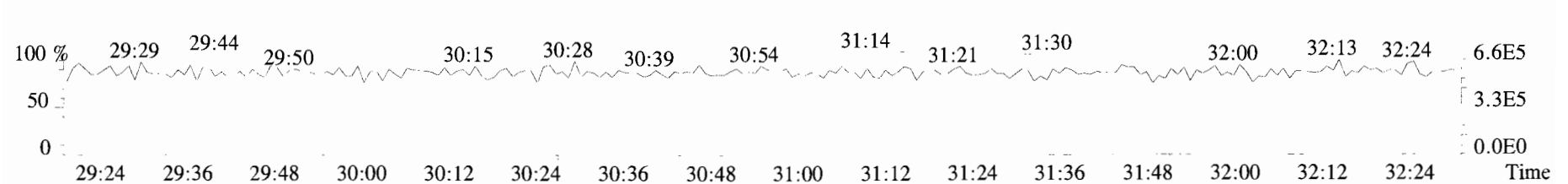
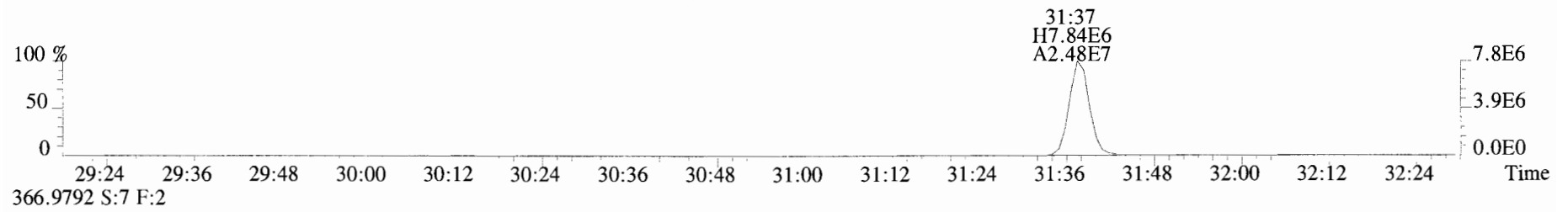
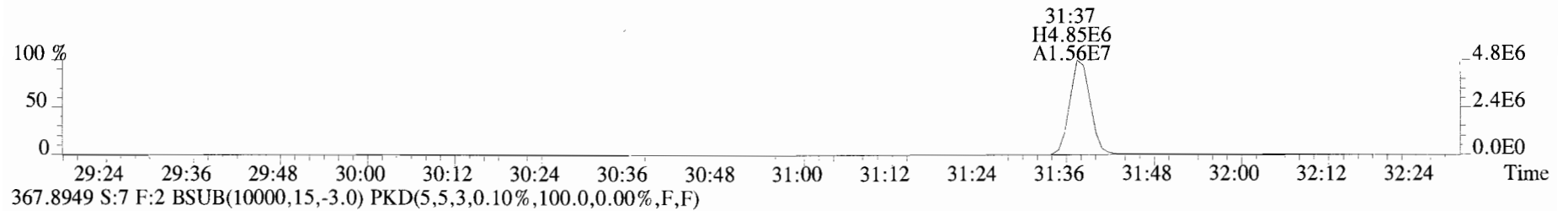
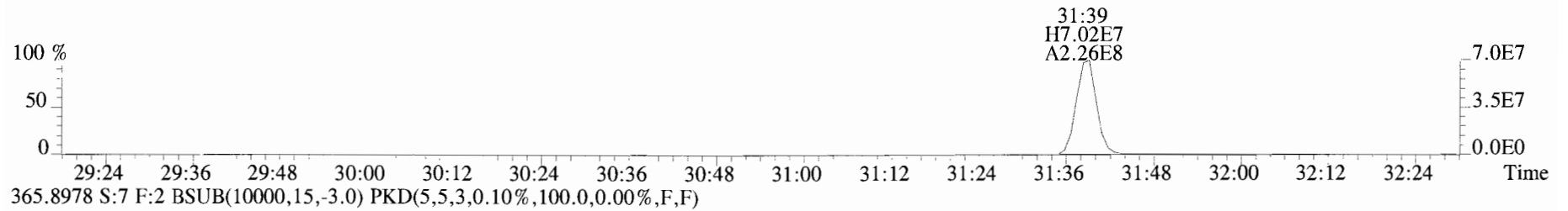
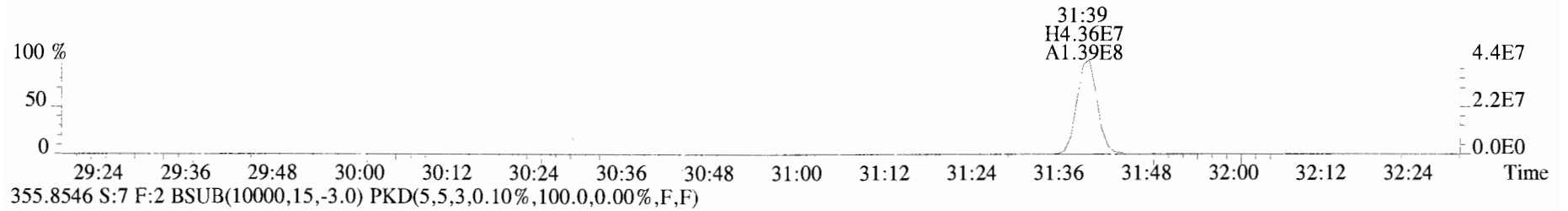
331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



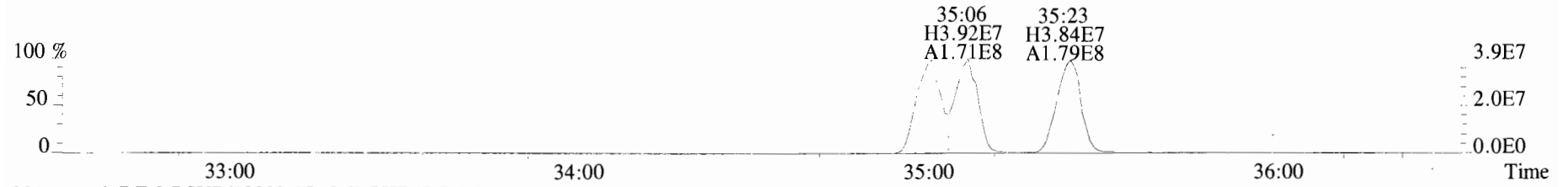
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



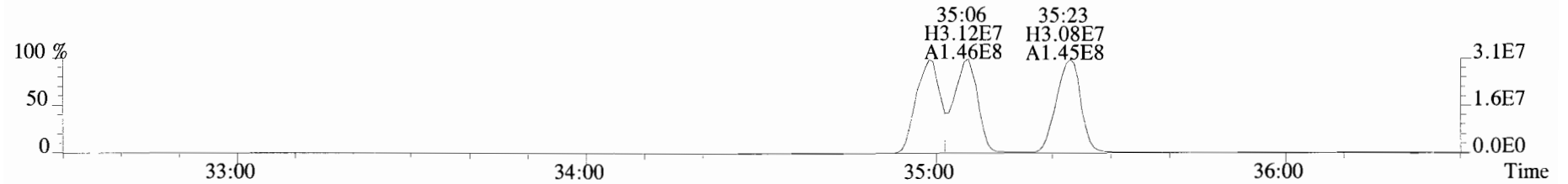
File:140417D1 #1-269 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



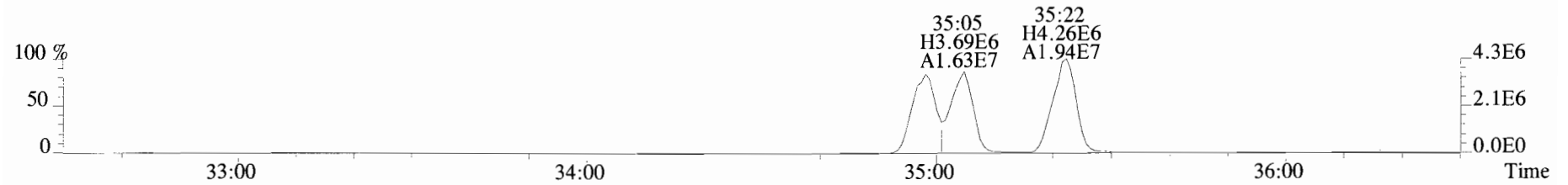
File:140417D1 #1-370 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



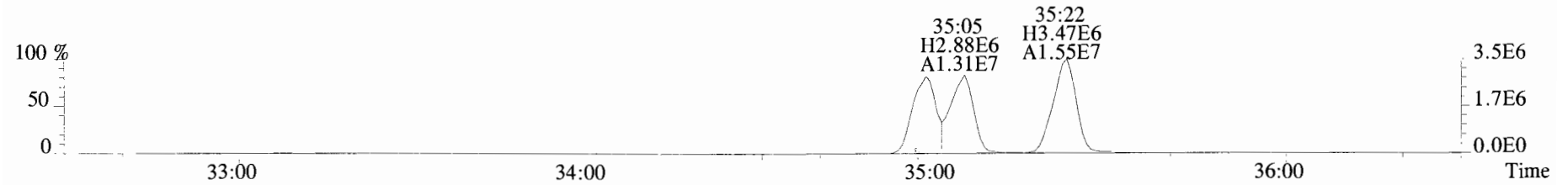
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



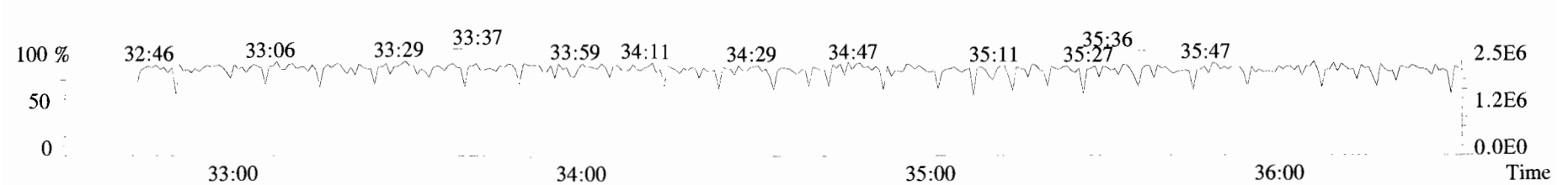
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



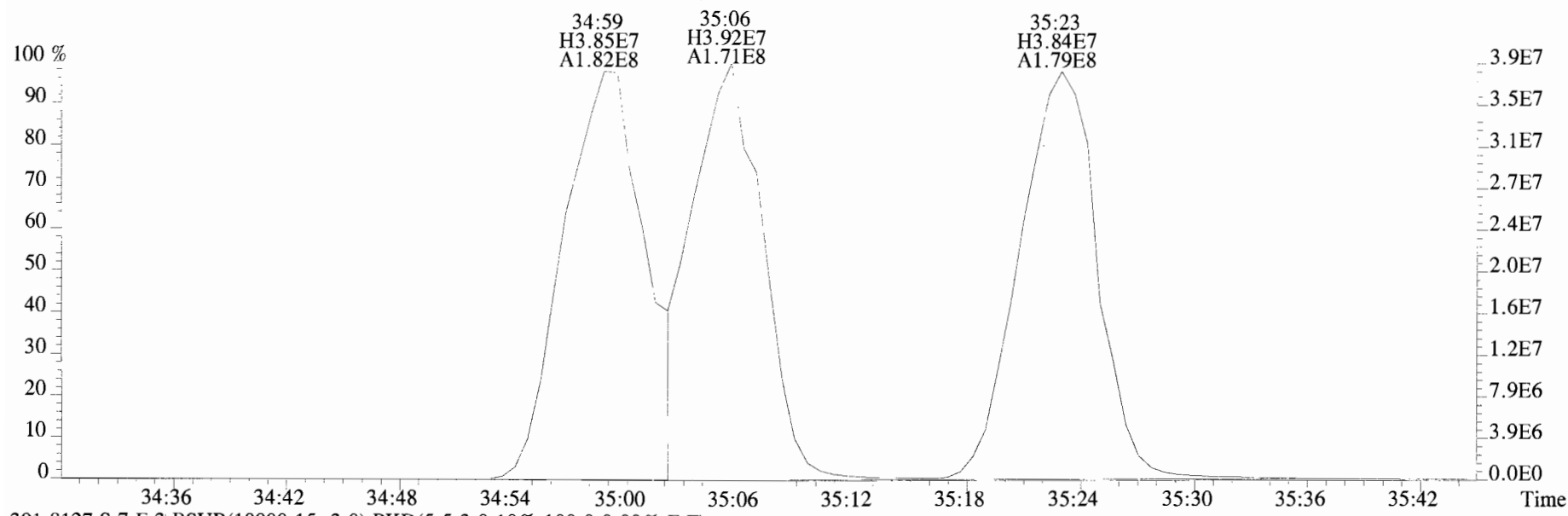
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



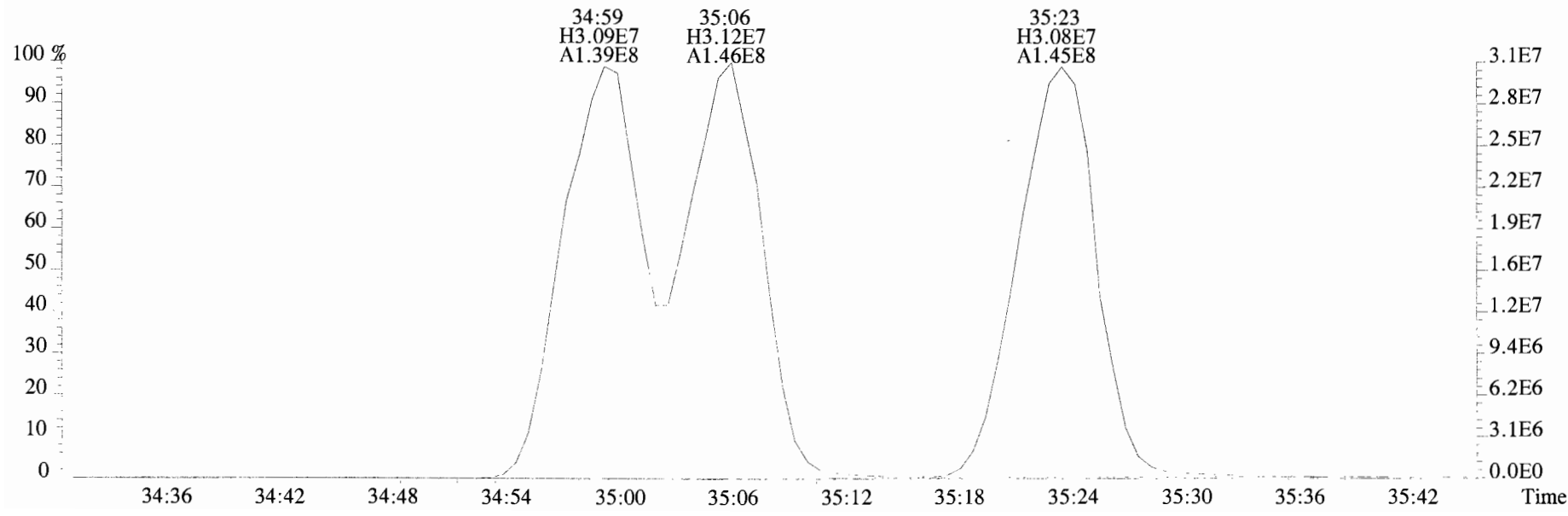
380.9760 S:7 F:3



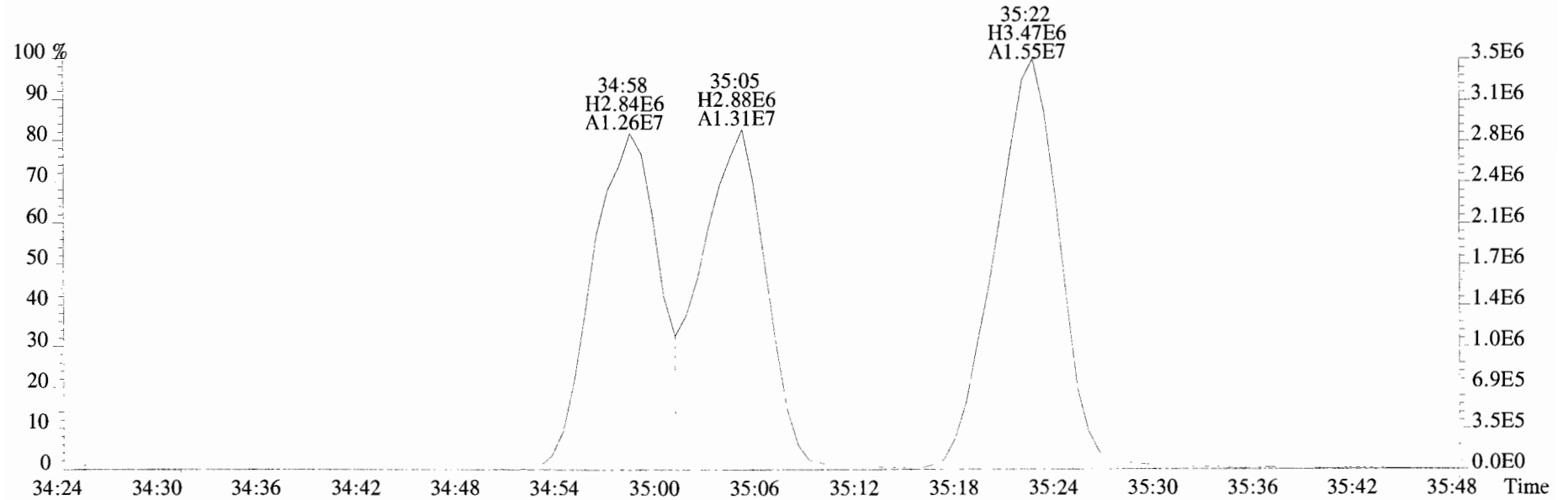
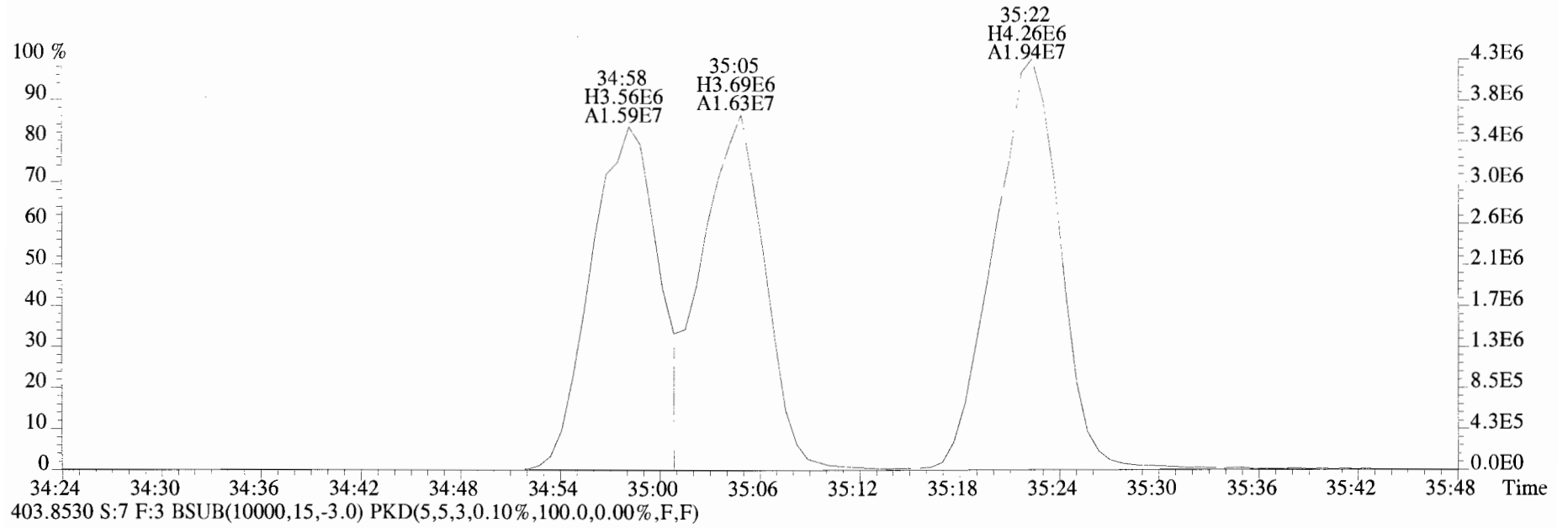
File:140417D1 #1-370 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



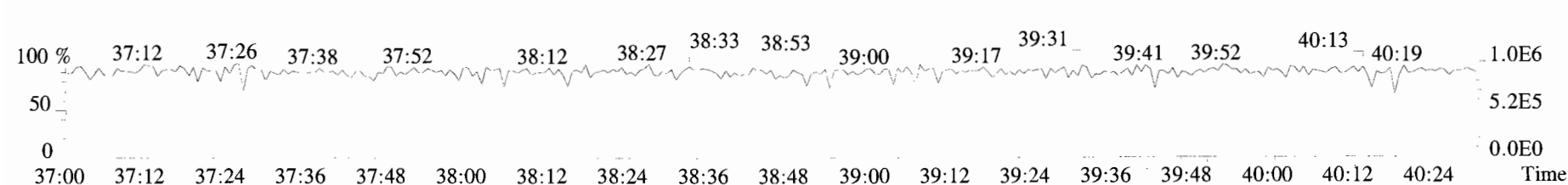
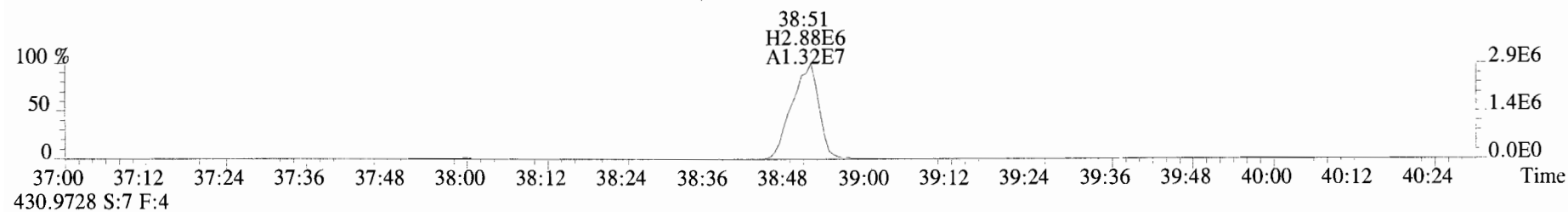
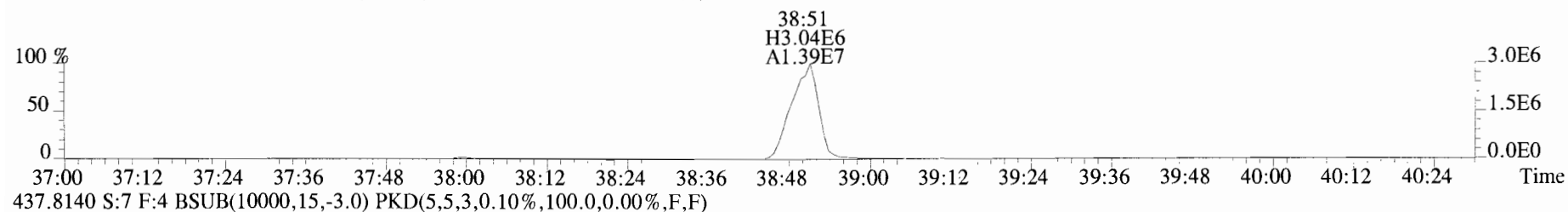
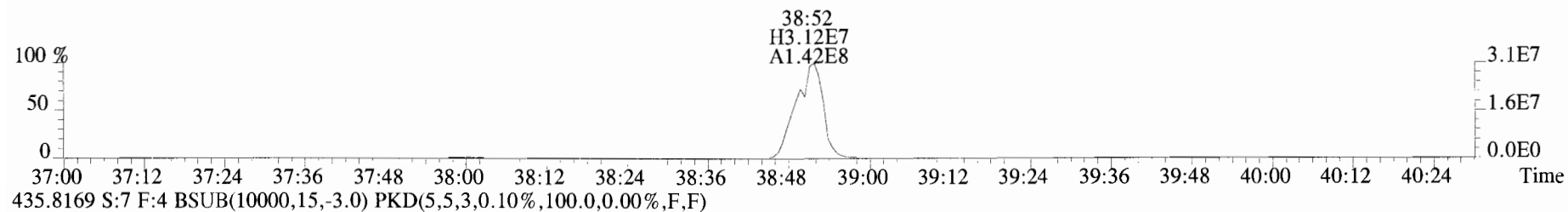
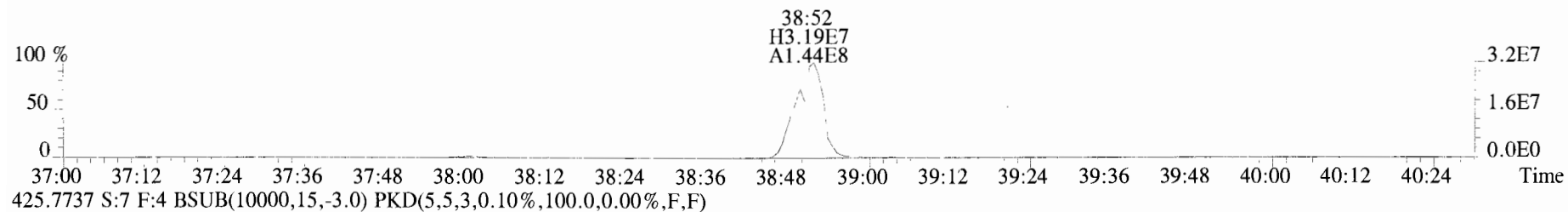
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



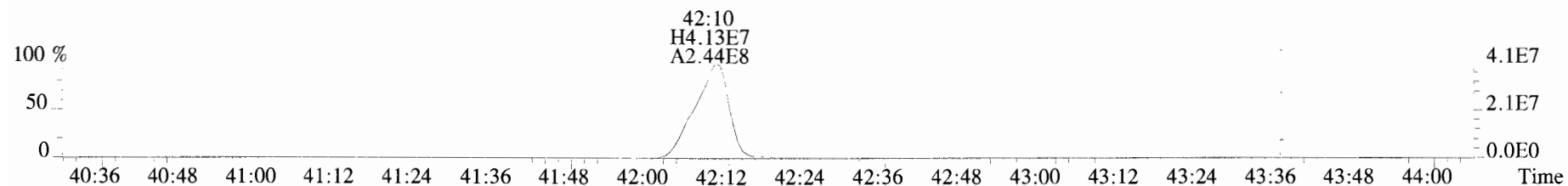
File:140417D1 #1-370 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



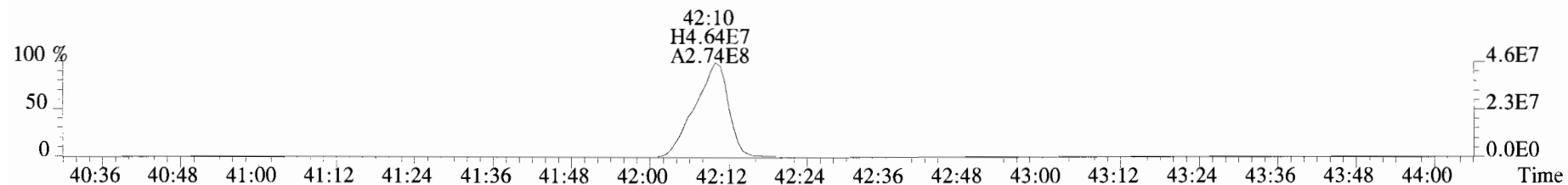
File:140417D1 #1-326 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



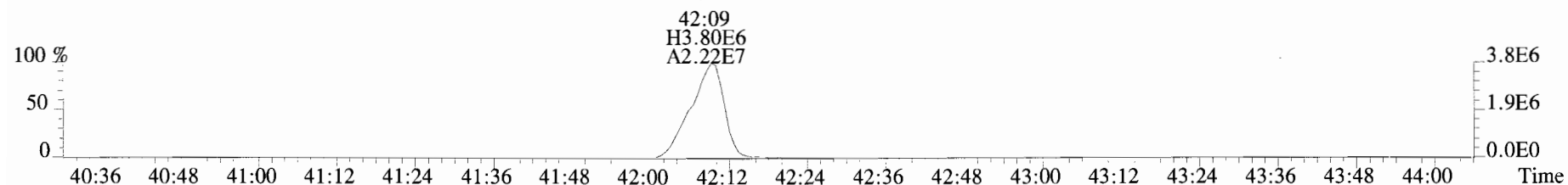
File:140417D1 #1-388 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



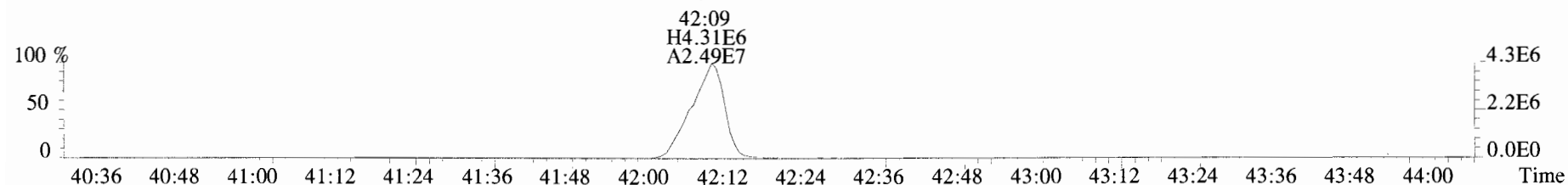
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



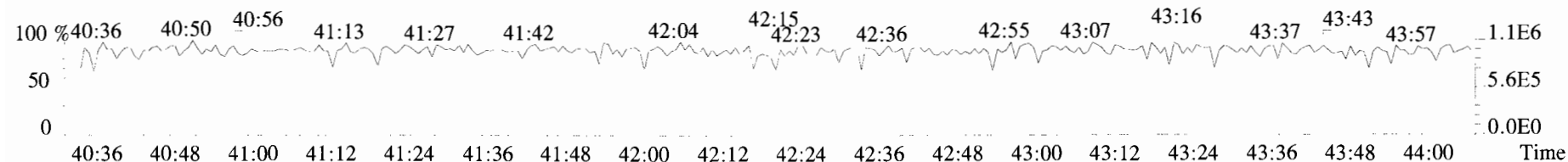
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



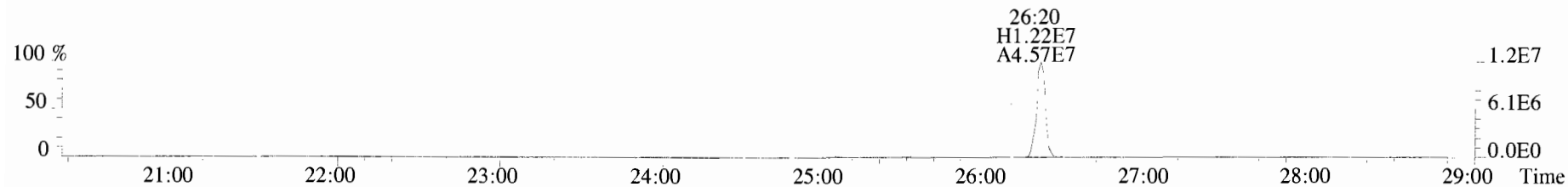
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



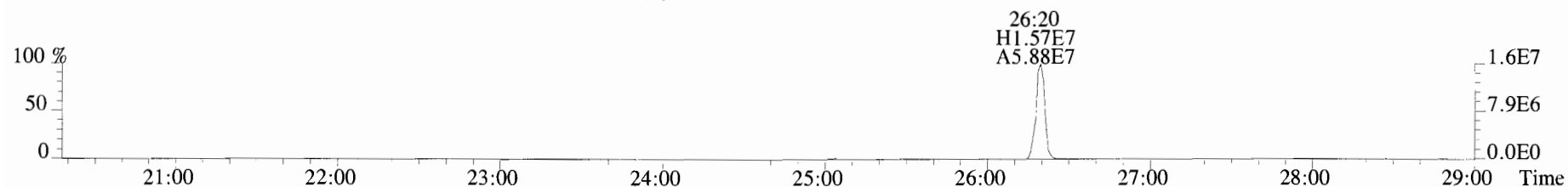
454.9728 S:7 F:5



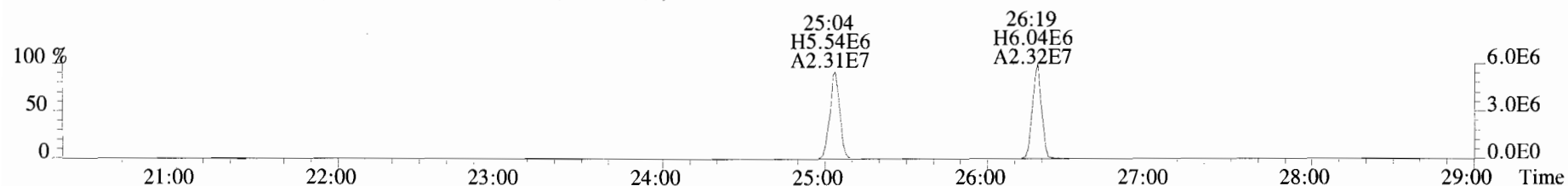
File:140417D1 #1-551 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



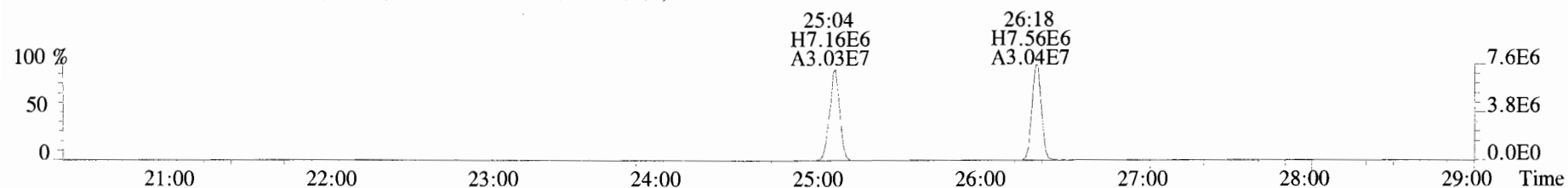
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



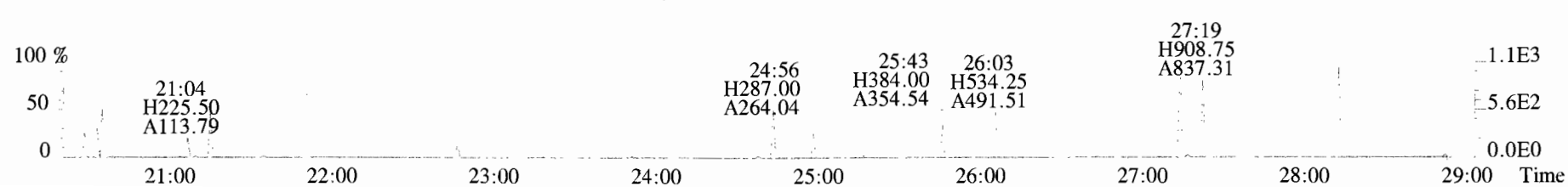
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

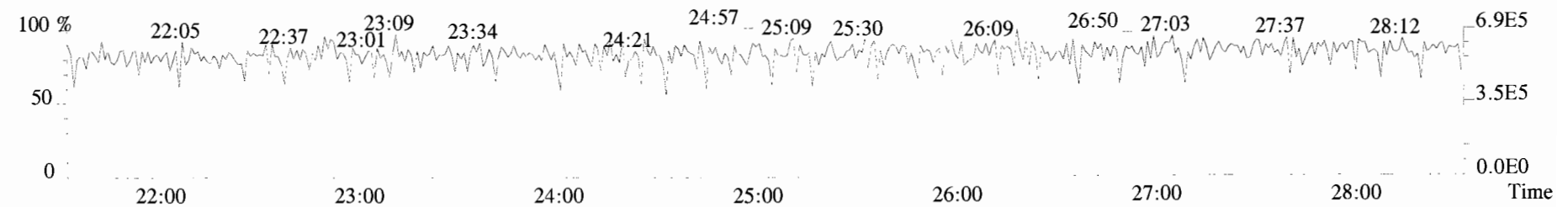
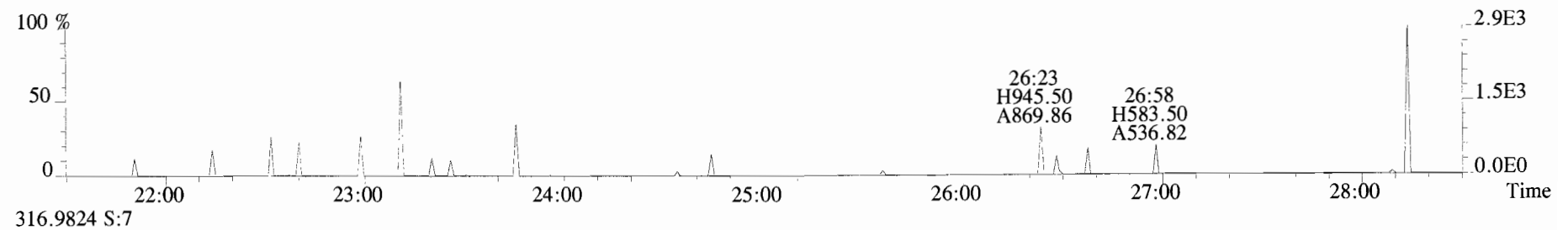
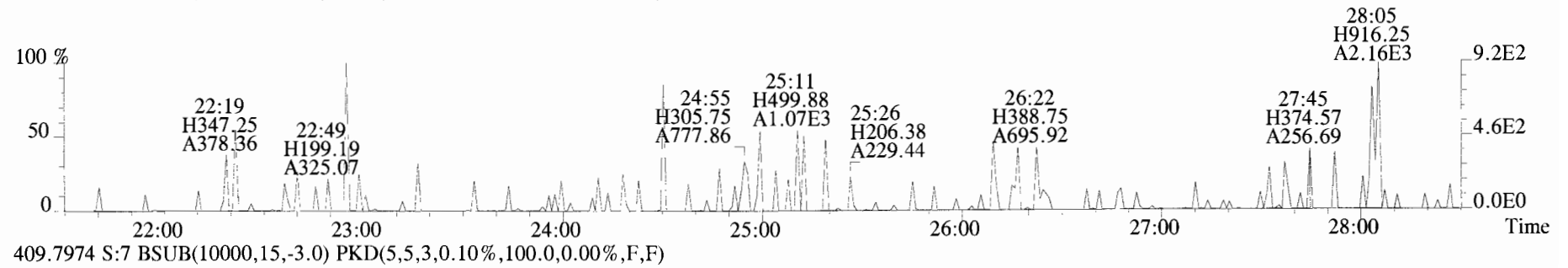
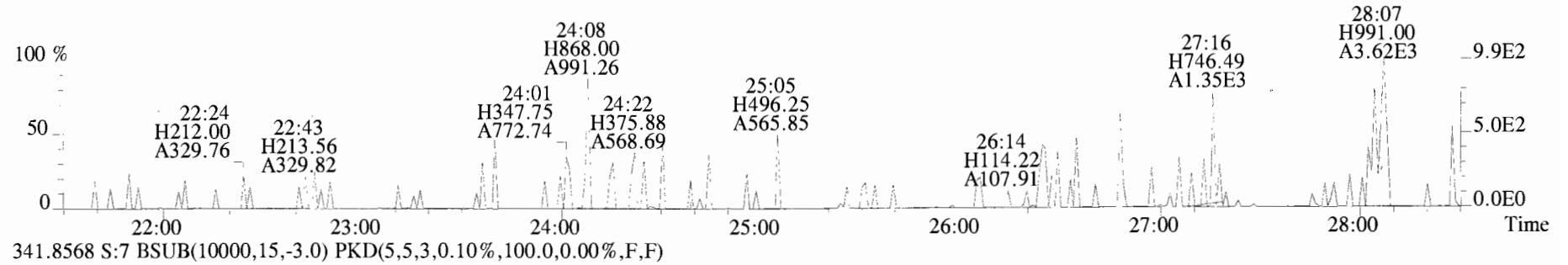


375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

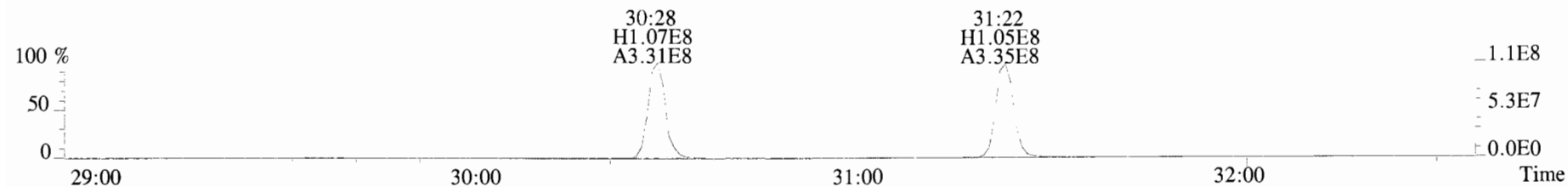




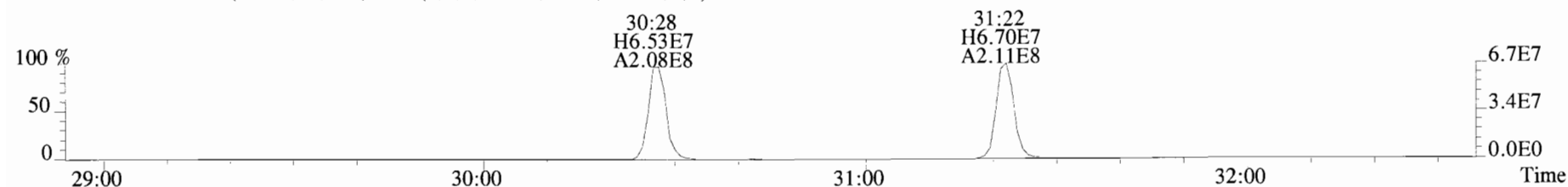
File:140417D1 #1-551 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



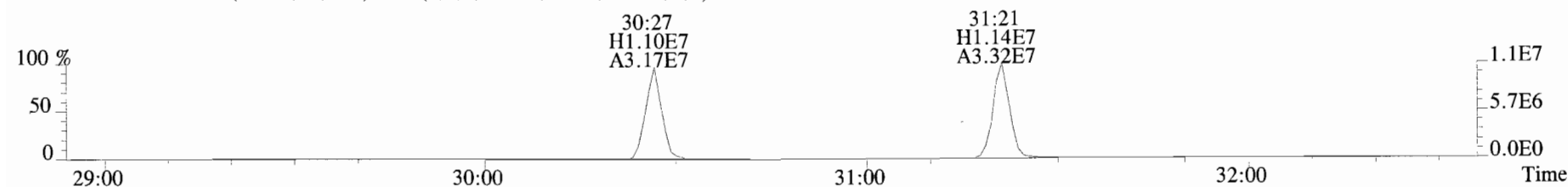
File:140417D1 #1-269 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



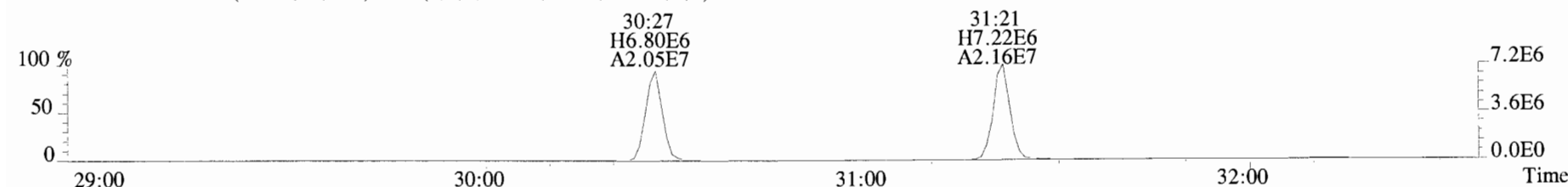
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



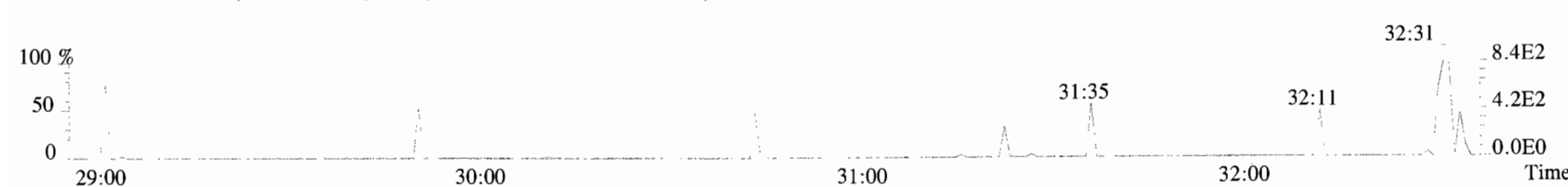
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



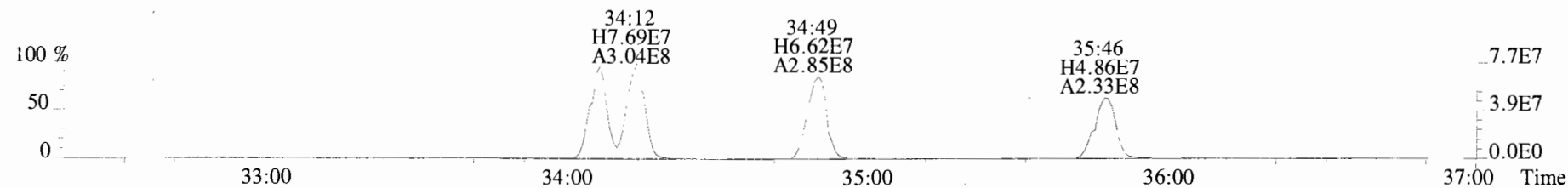
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



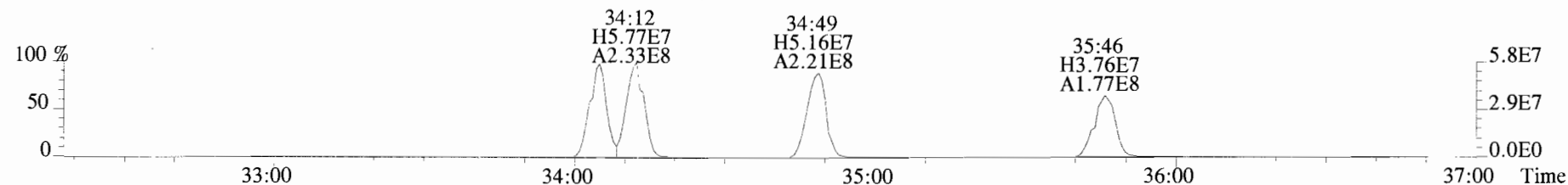
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



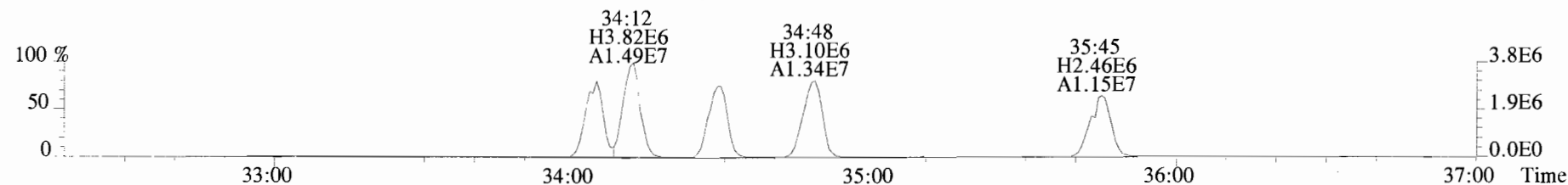
File:140417D1 #1-370 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



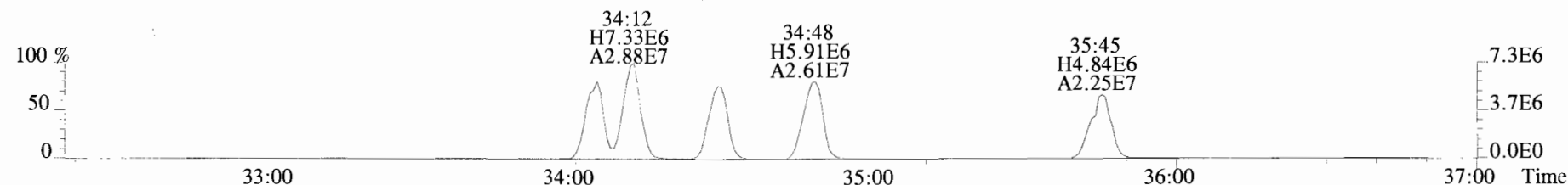
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



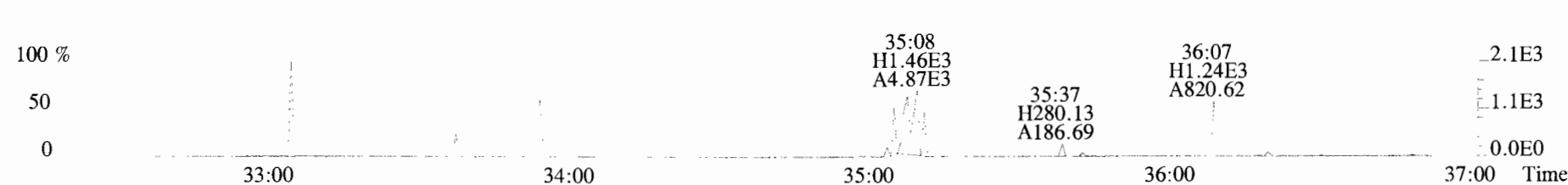
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



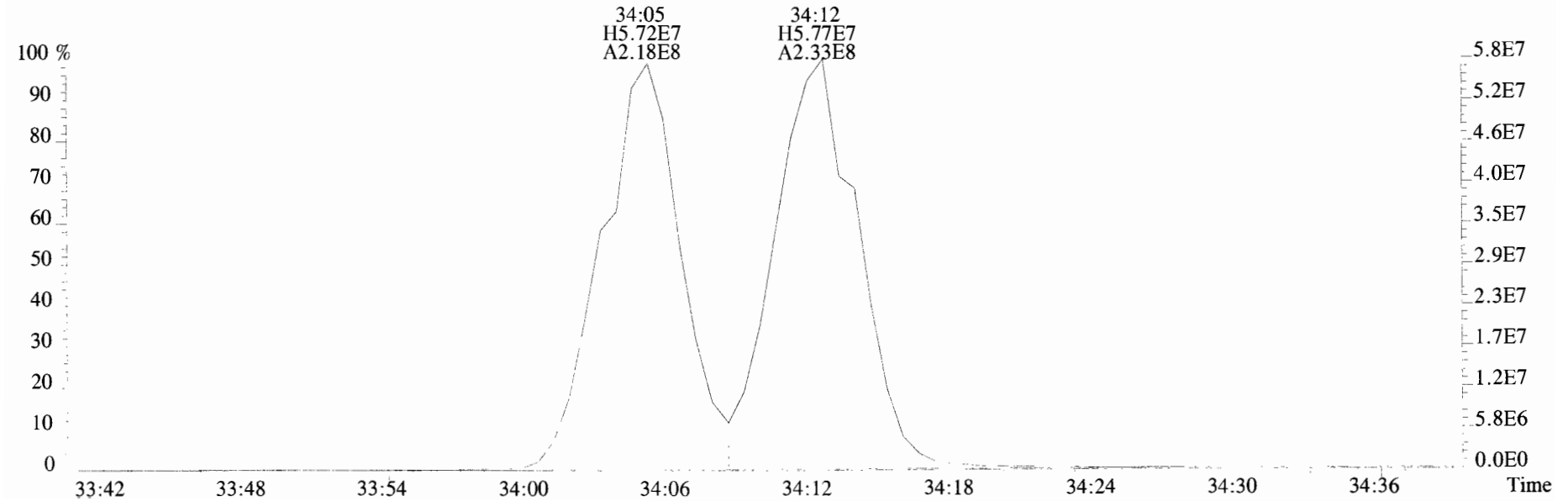
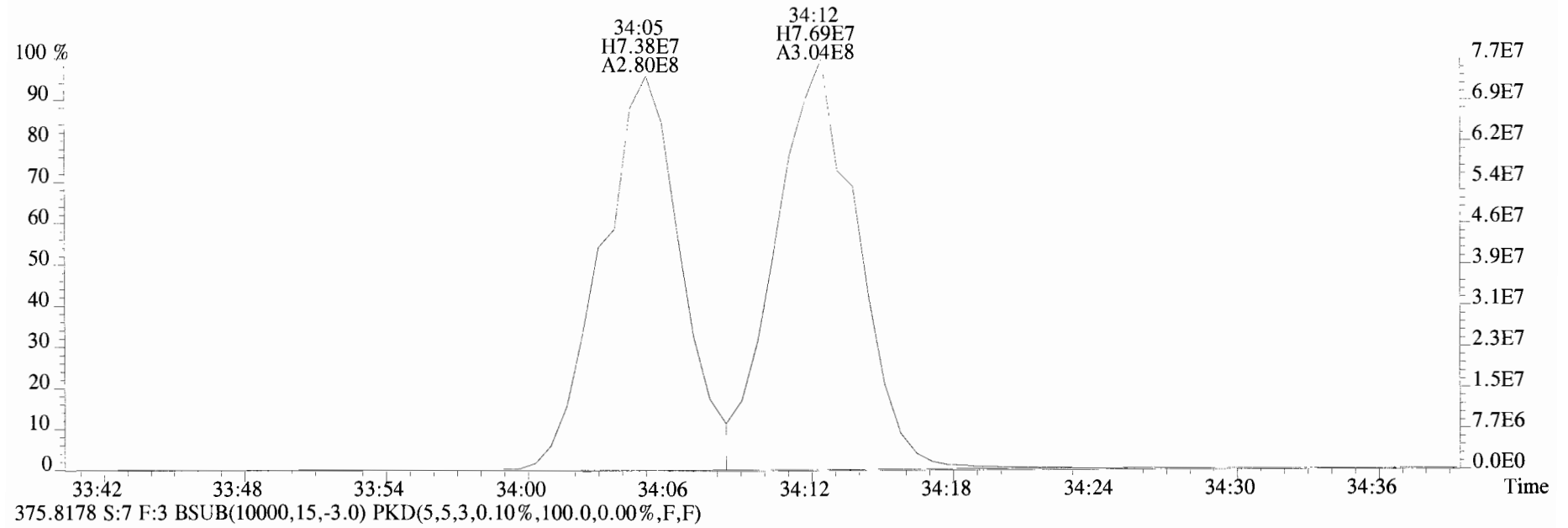
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



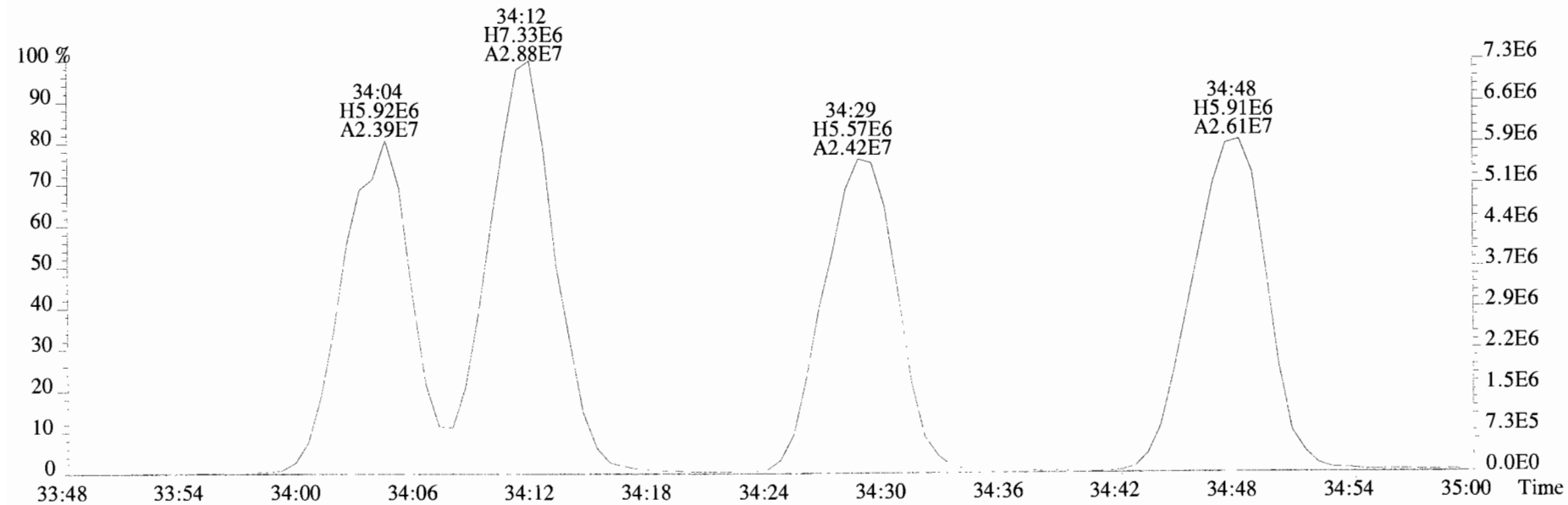
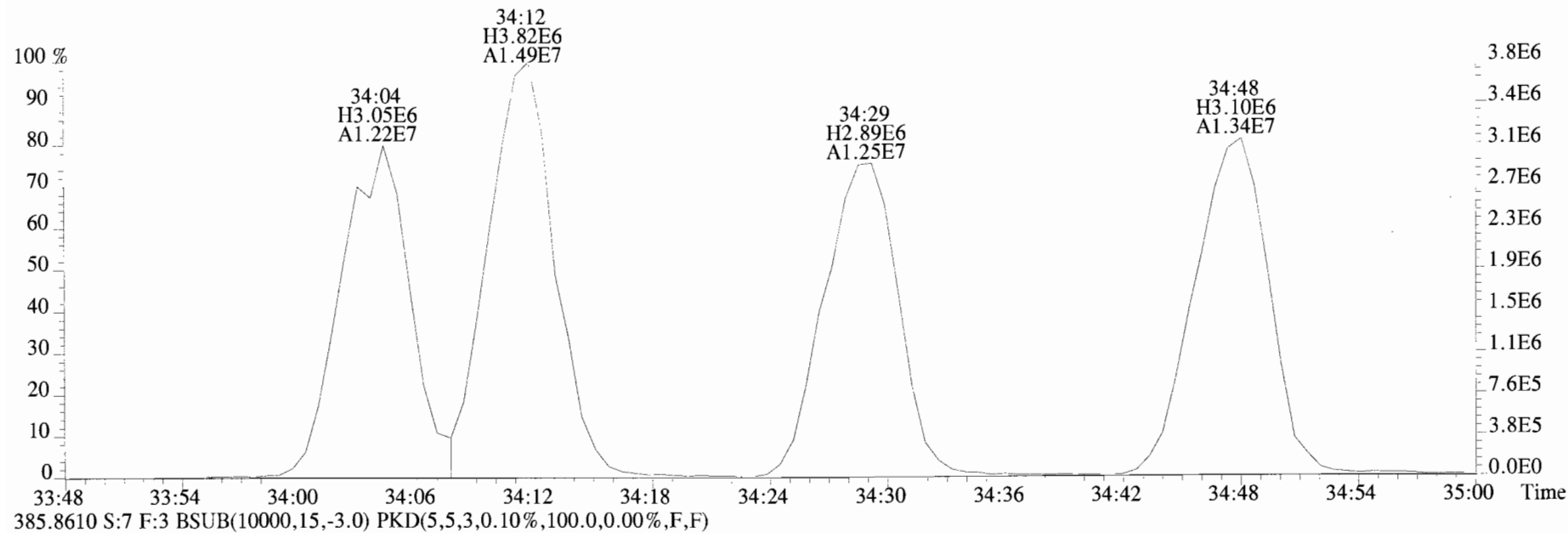
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



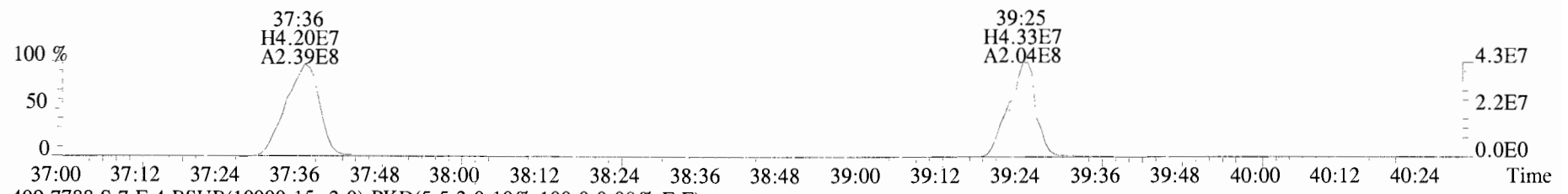
File:140417D1 #1-370 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



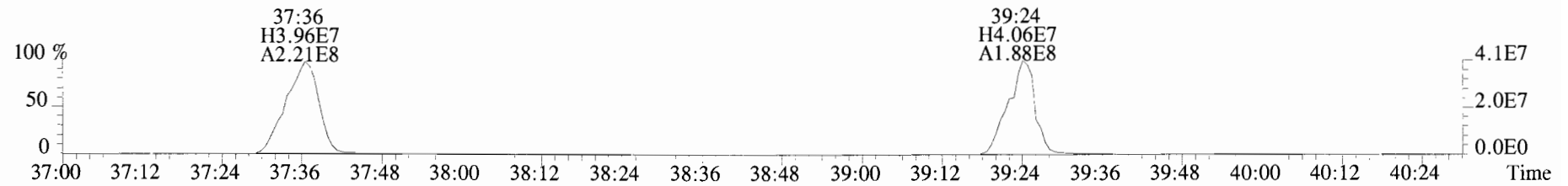
File:140417D1 #1-370 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



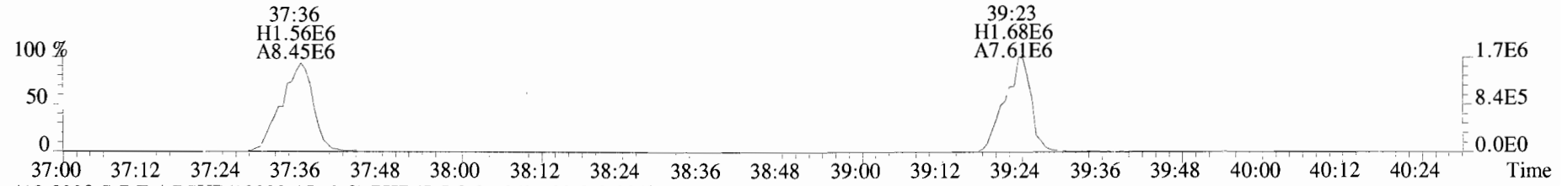
File:140417D1 #1-326 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



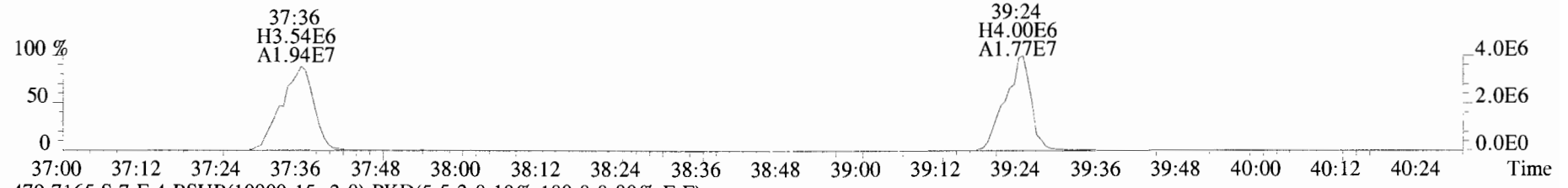
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



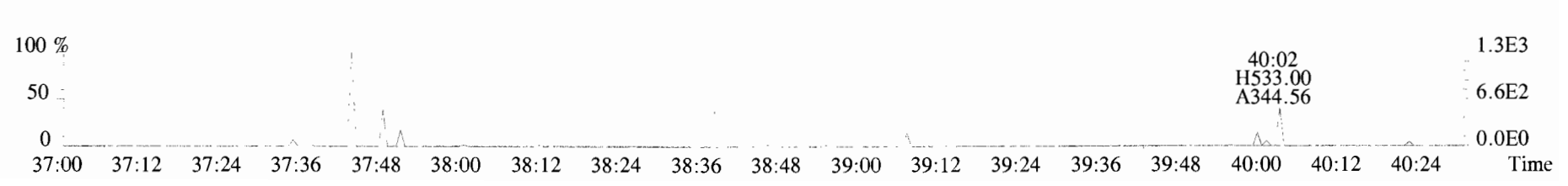
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



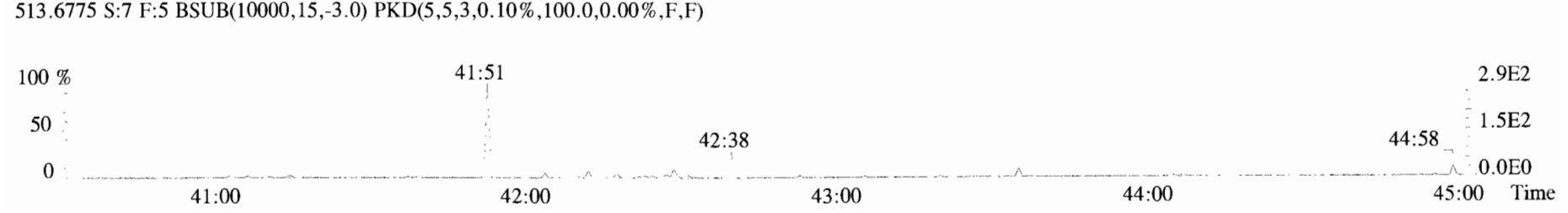
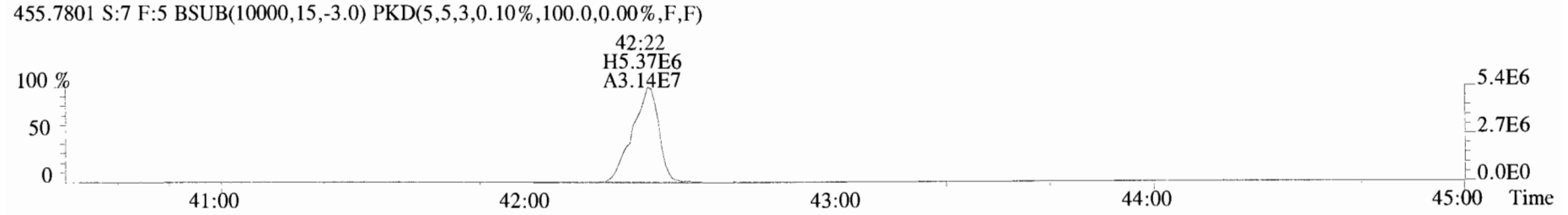
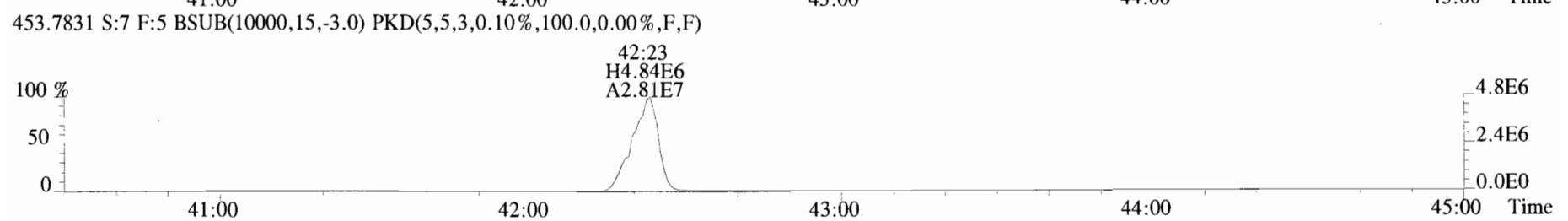
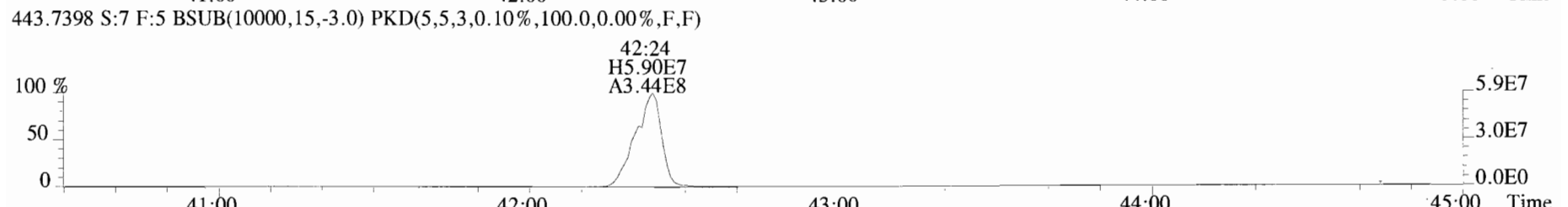
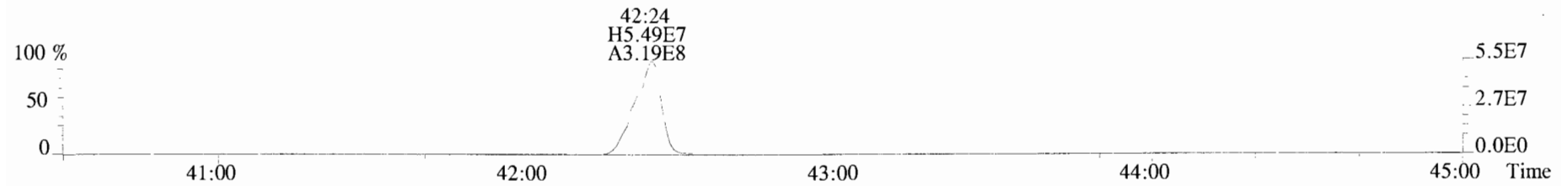
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

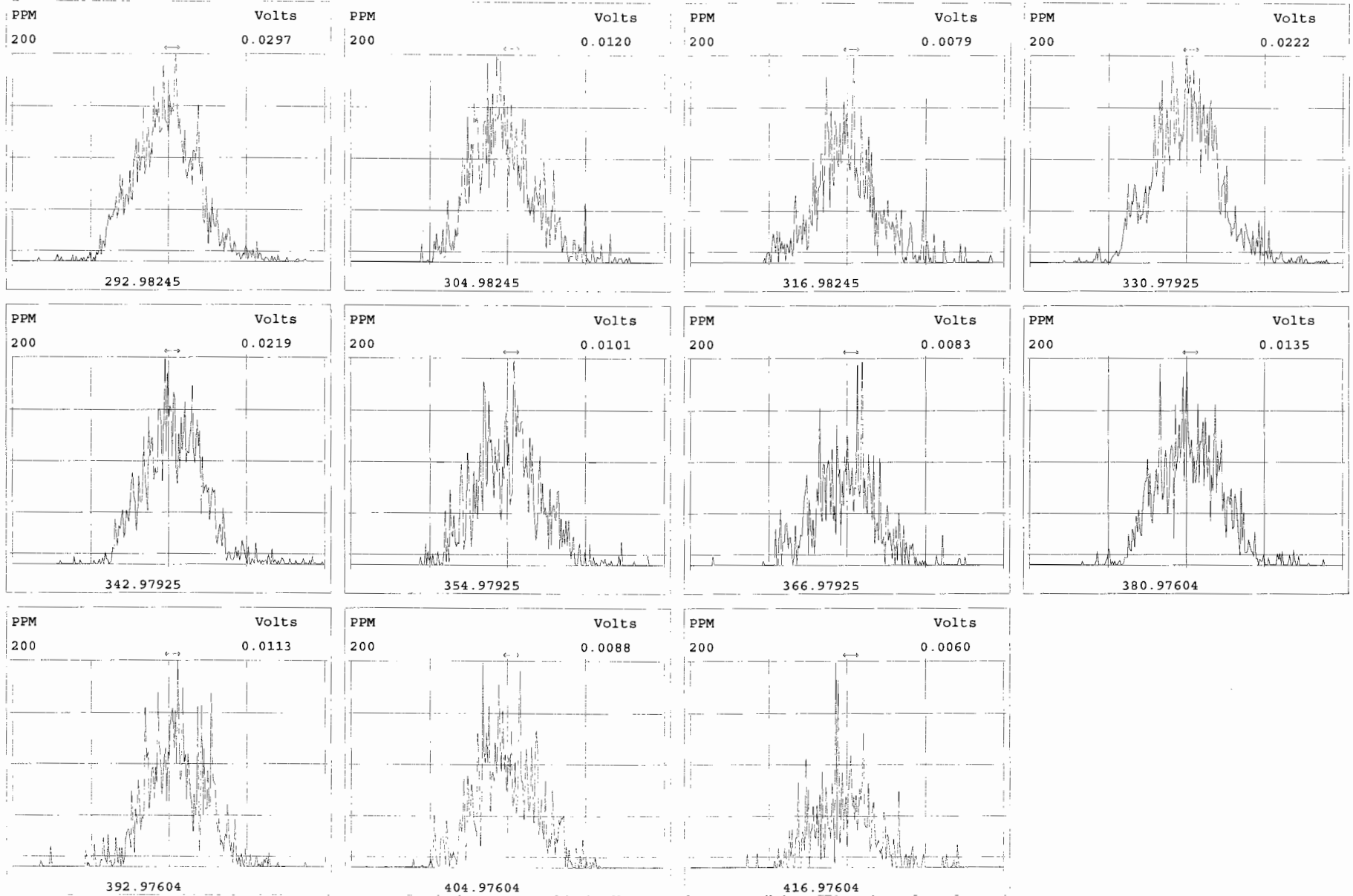


File:140417D1 #1-388 Acq:17-APR-2014 17:57:55 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:ST140417D1-6 1613 CS5 14B1102 Exp:OCDD\_DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

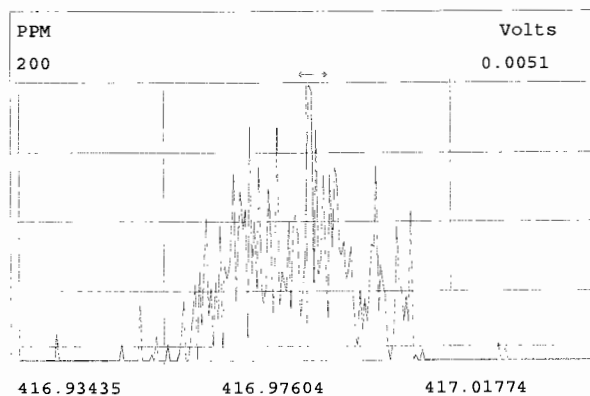
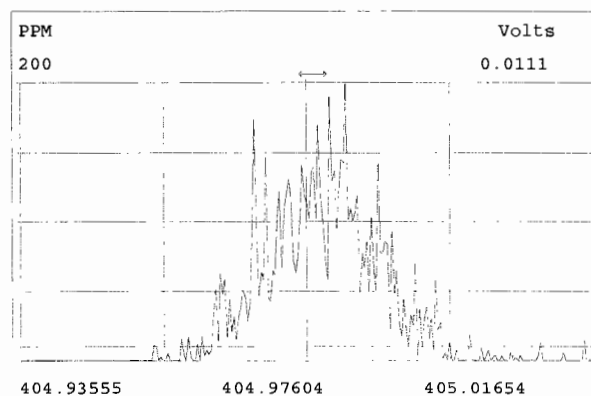
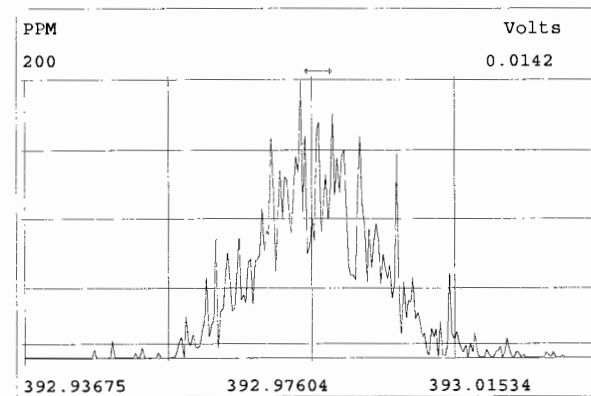
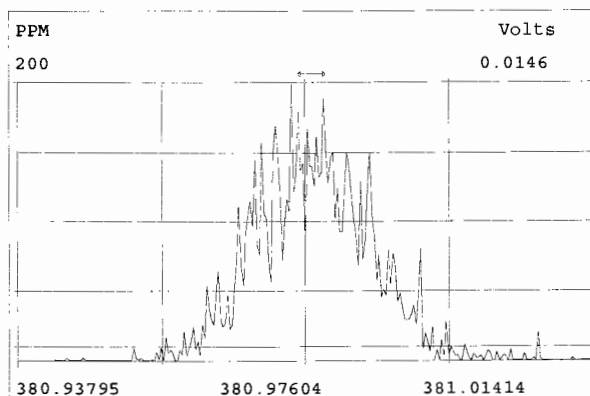
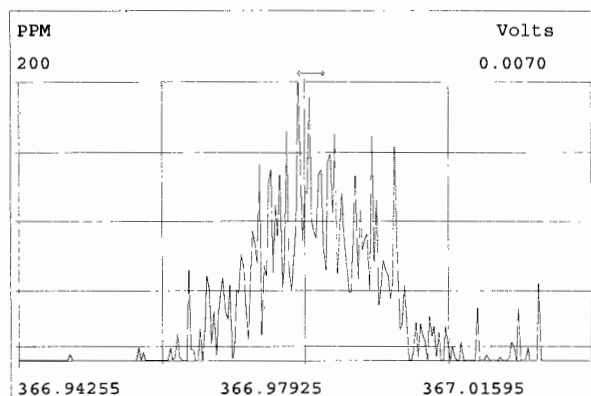
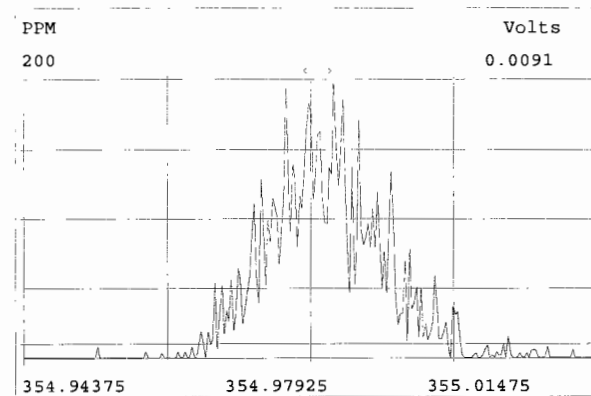
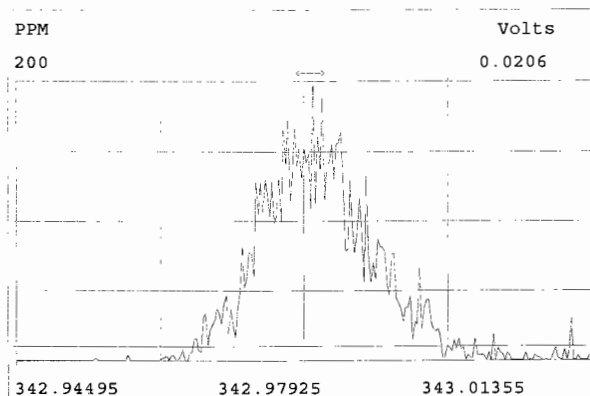
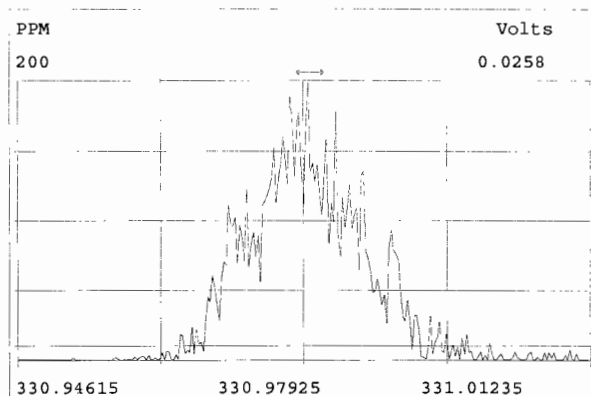


Peak Locate Examination:18-APR-2014:02:13 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:1 Reference:PFK

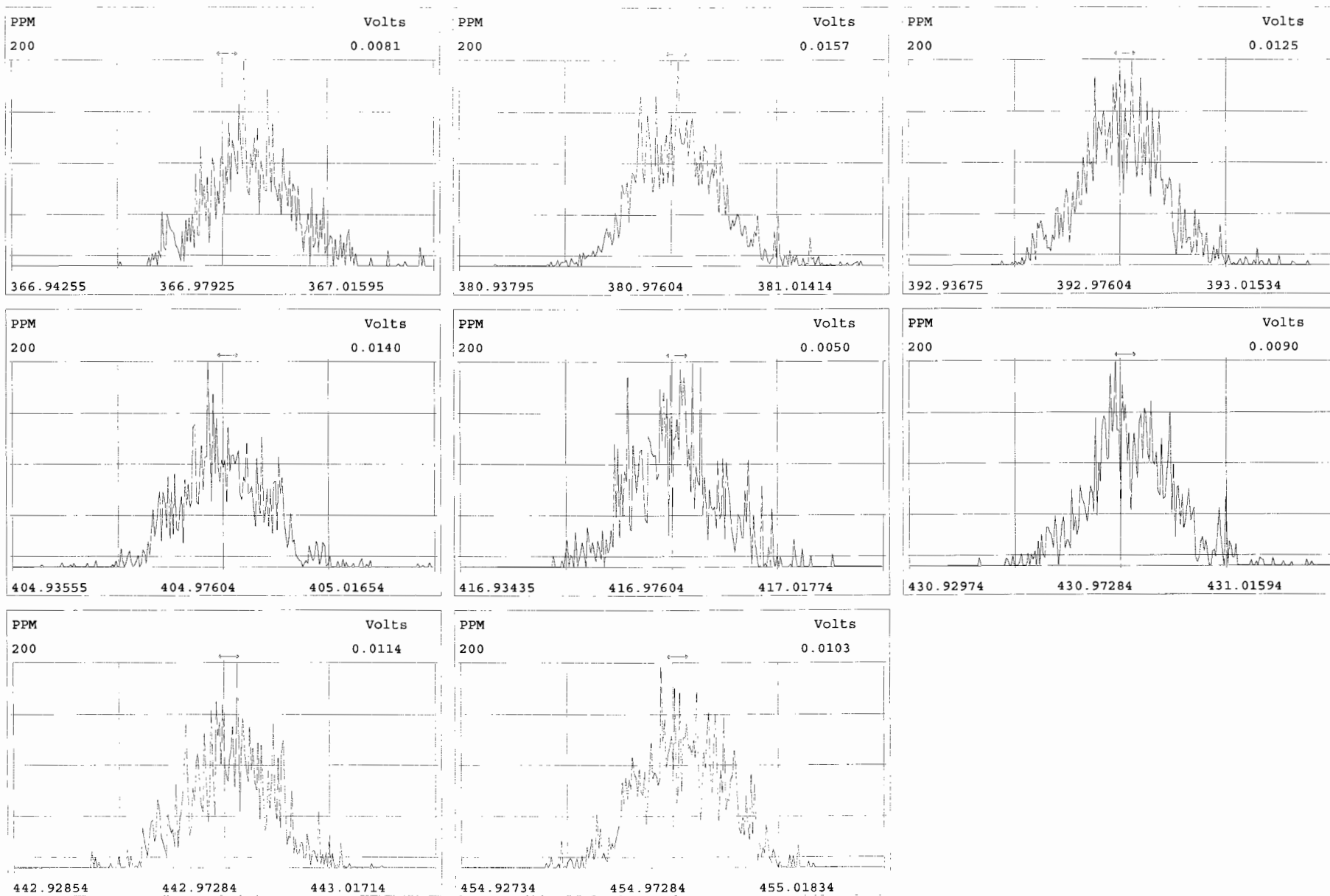


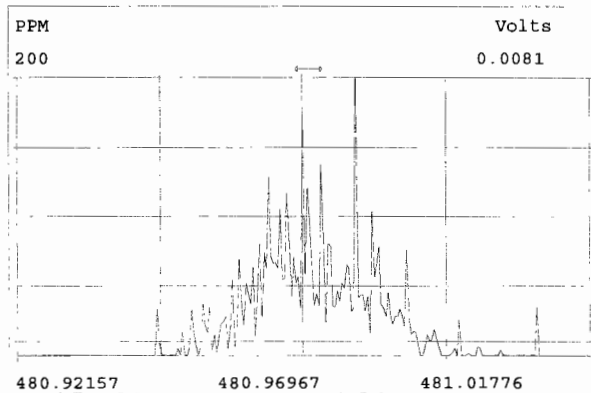
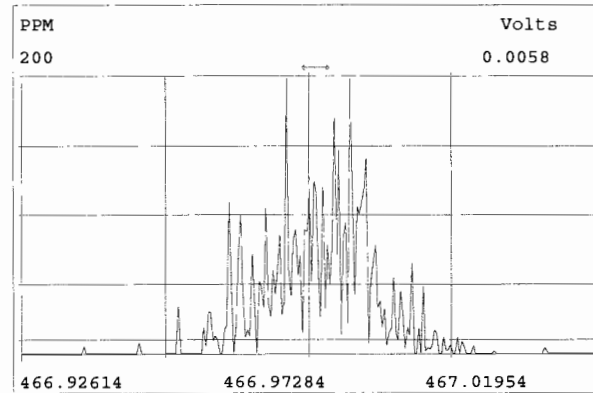
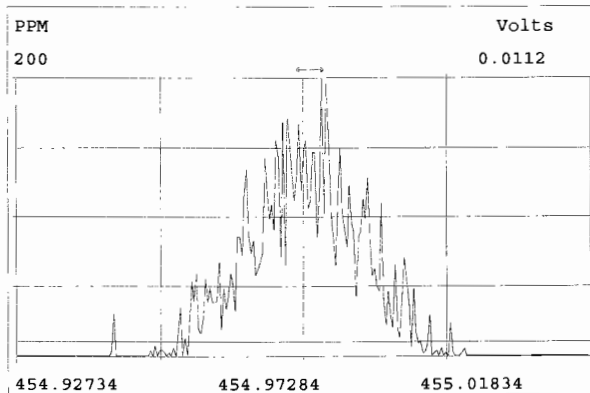
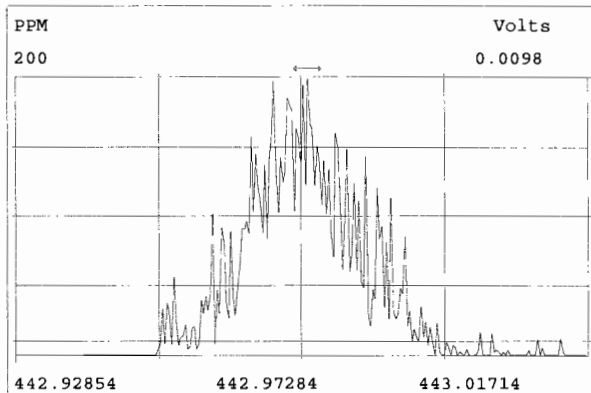
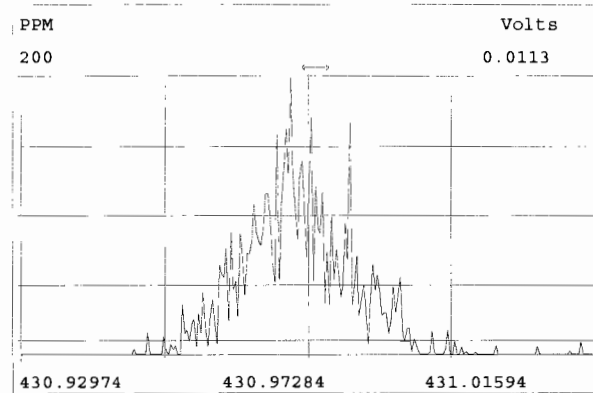
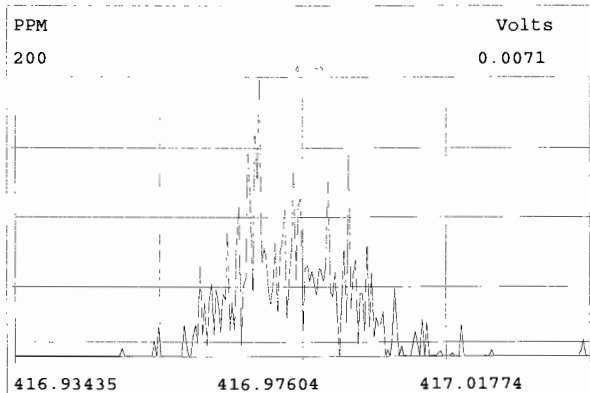
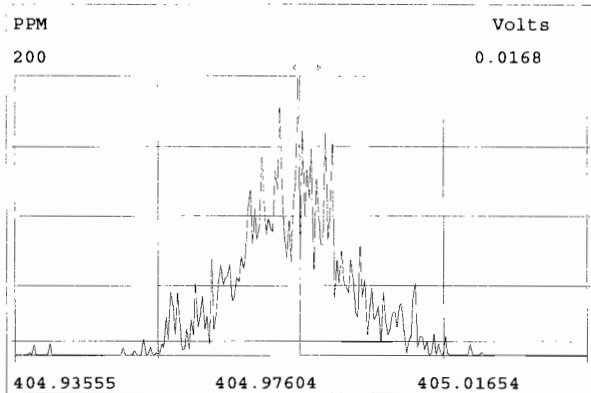


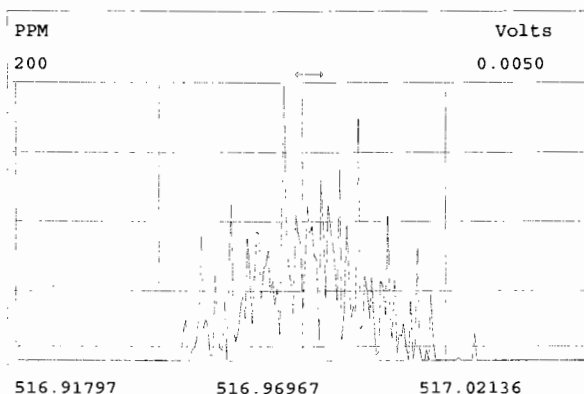
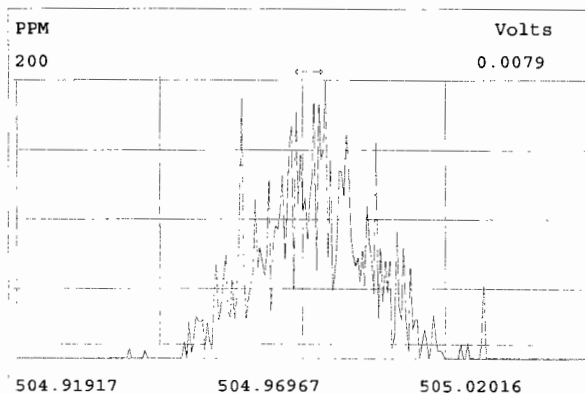
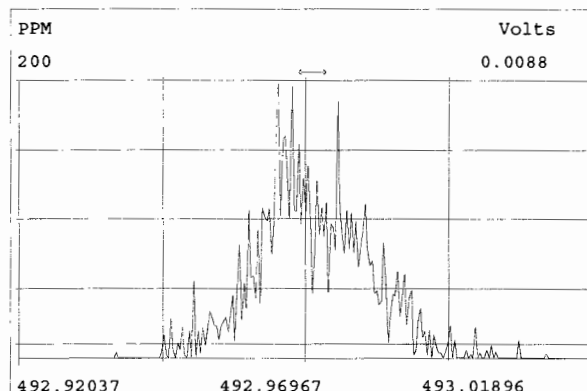
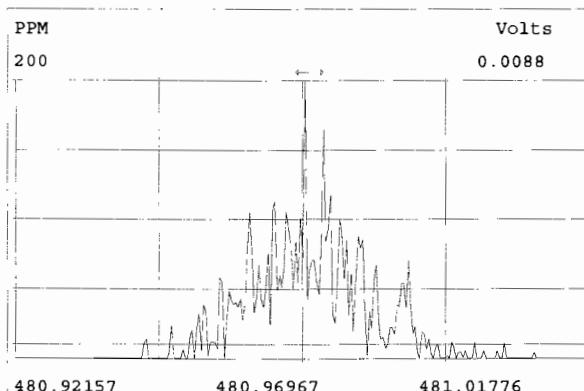
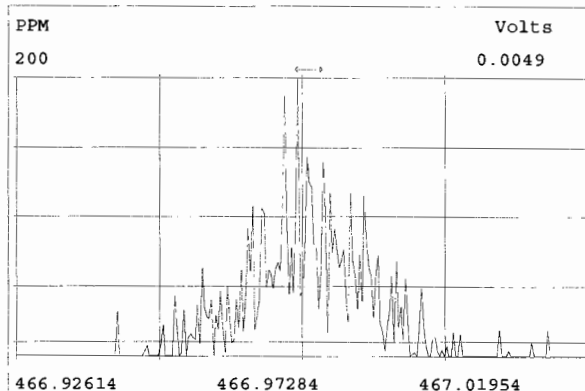
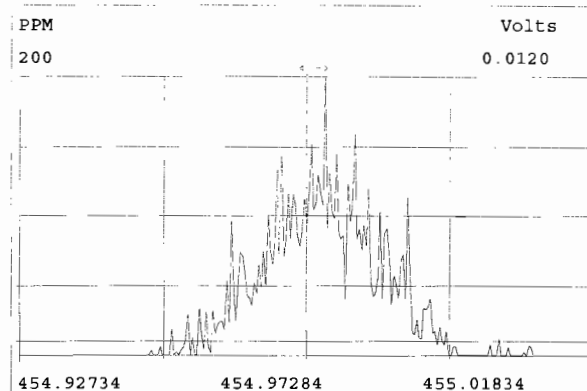
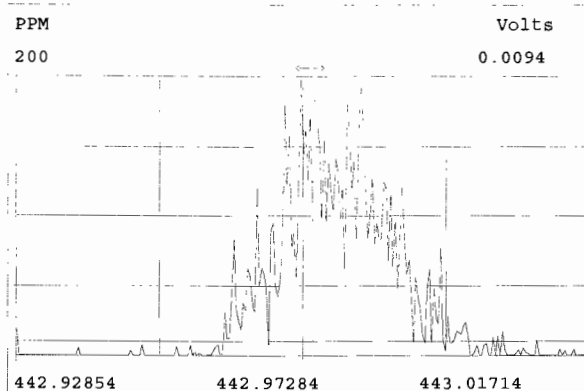
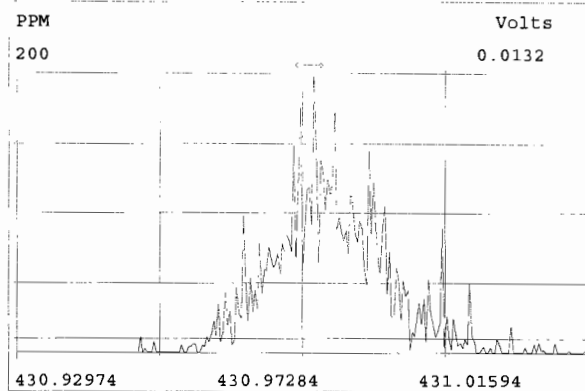


Peak Locate Examination:18-APR-2014:02:15 File:RES\_CHECK

Experiment:OCDD\_DB5 Function:3 Reference:PFK







FORM 4A  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: SS140417D1-1

Contract No.: SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 140417D1 S#9 Analysis Date: 17-APR-14 Time: 19:35:12

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	9.27	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.60	0.54-0.72	y	48.9	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	48.9	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	48.8	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	47.5	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	103	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.29	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	47.1	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	52.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	50.5	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	47.6	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.31	1.05-1.43	y	50.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	51.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.10	0.88-1.20	y	50.2	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	104	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: MD

Date: 4/19/14

## EPA METHOD 8290

## PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: SS140417D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 4-17-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 140417D1 S#9 Analysis Date: 17-APR-14 Time: 19:35:12

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO	RATIO			FOUND	(ng/mL)
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	9.27	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.60	0.54-0.72	y	48.9	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	48.9	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.0	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	48.8	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	47.5	40.0 - 60.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	103	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.29	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	47.1	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	52.9	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	50.5	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	47.6	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.3	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.31	1.05-1.43	y	50.8	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	51.0	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.10	0.88-1.20	y	50.2	40.0 - 60.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	104	80.0 - 120

Analyst: WVDate: 4/18/14

Client ID: 1613 SSS 13J2107  
Lab ID: SS140417D1-1

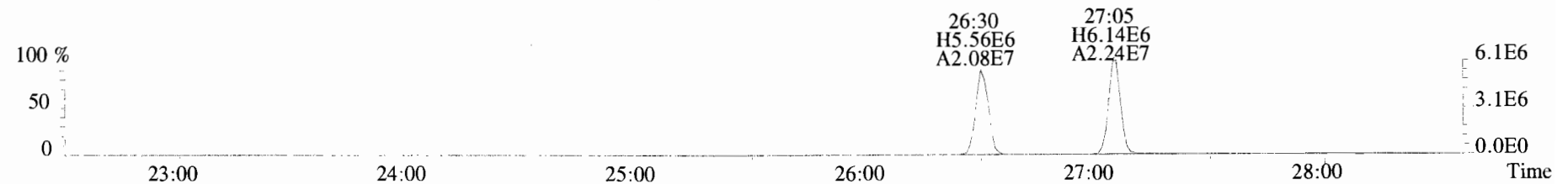
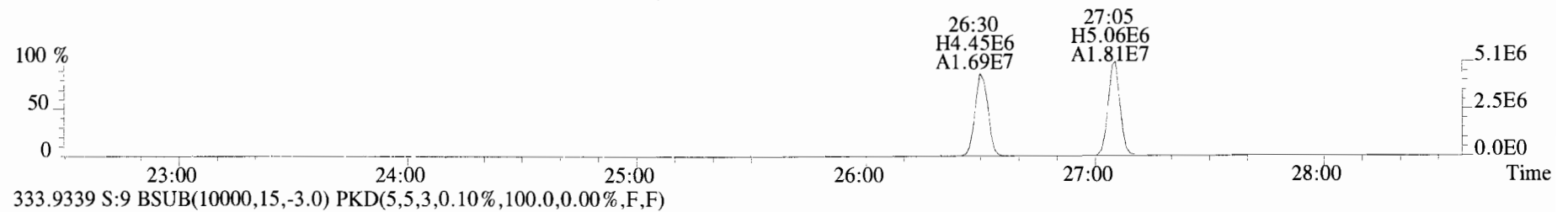
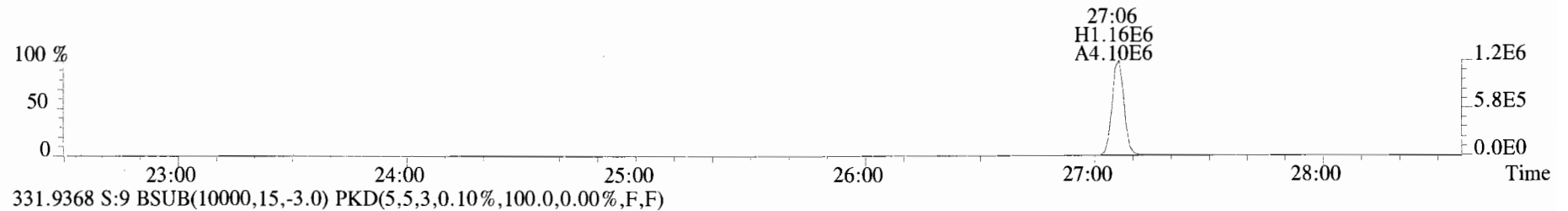
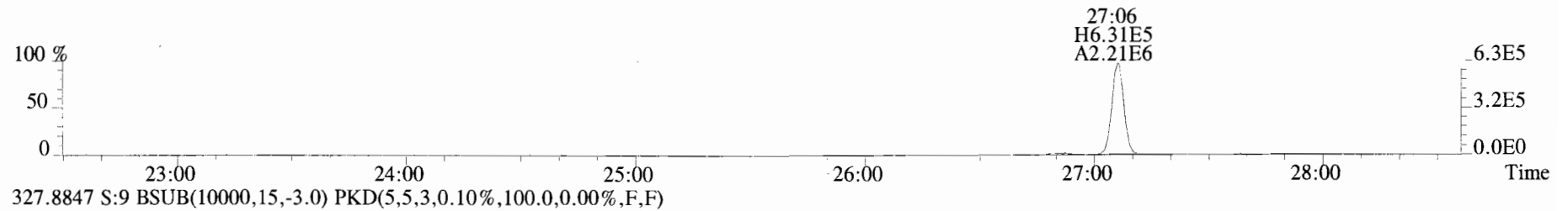
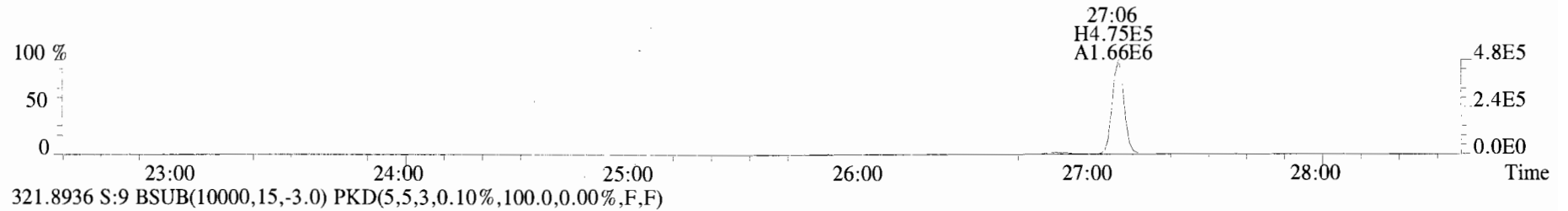
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GC Column ID: ZB-SMS ICal: 1613VG7-4-17-14 wt/vol: 1.000

ConCal: NA  
EndCAL: NA

Page 2 of 2

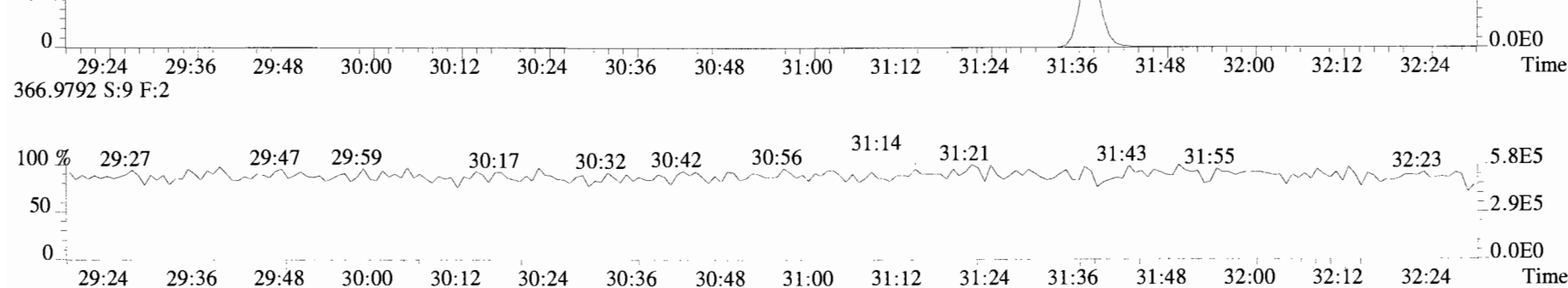
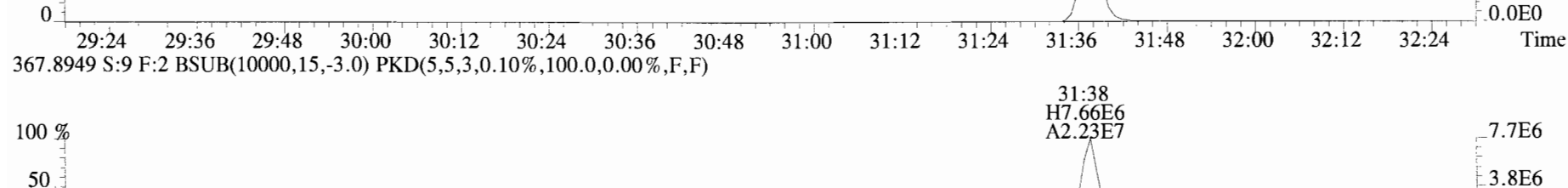
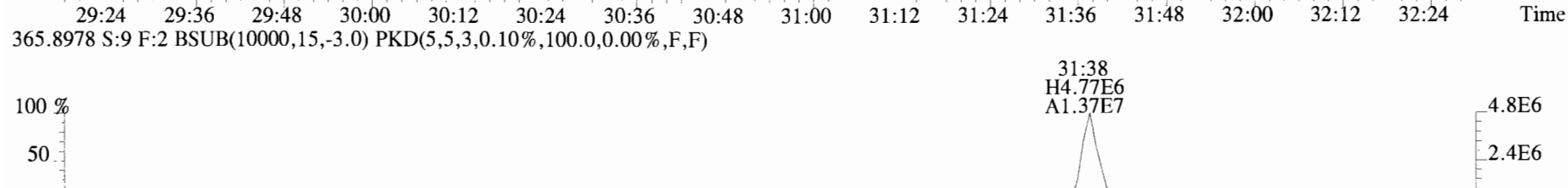
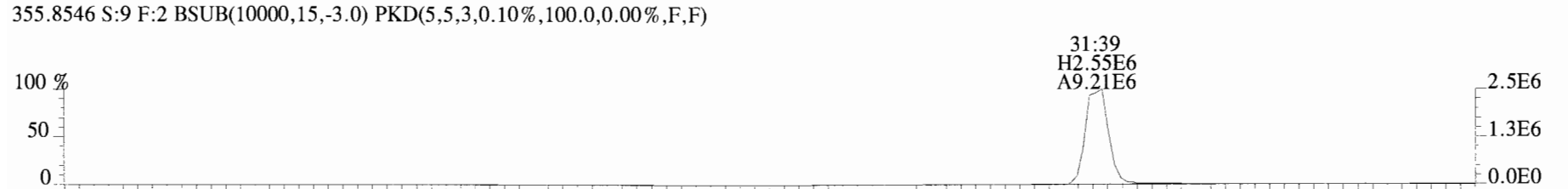
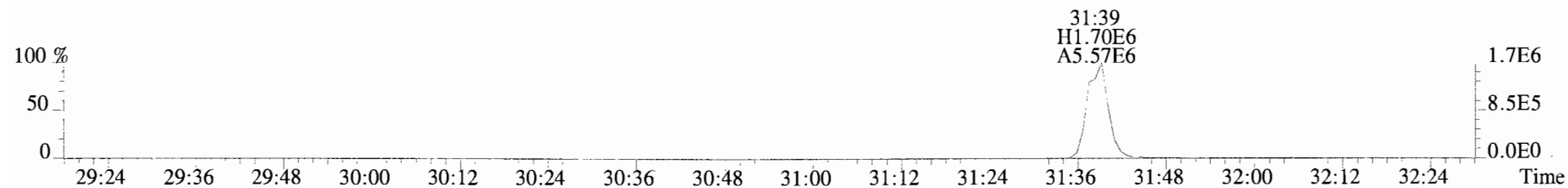
Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.87e+06	0.75 y	1.03	27:06	1.001	9.2748	*	2.5	*	*	Total Tetra-Dioxins	9.51	9.54	*	*	
1,2,3,7,8-PeCDD	1.48e+07	0.60 y	0.84	31:39	1.001	48.871	*	2.5	*	*	Total Penta-Dioxins	49.0	49.3	*	*	
1,2,3,4,7,8-HxCDD	1.45e+07	1.24 y	1.05	34:58	1.000	48.886	*	2.5	*	*	Total Hexa-Dioxins	147	147	*	*	
1,2,3,6,7,8-HxCDD	1.40e+07	1.24 y	1.04	35:05	1.000	49.001	*	2.5	*	*	Total Hepta-Dioxins	48.1	48.4	*	*	
1,2,3,7,8,9-HxCDD	1.43e+07	1.25 y	0.90	35:22	1.000	48.840	*	2.5	*	*	Total Tetra-Furans	9.43	9.56	*	*	
1,2,3,4,6,7,8-HpCDD	1.22e+07	1.01 y	1.01	38:51	1.000	47.518	*	2.5	*	*	Total Penta-Furans	102.14	102.37	*	*	
OCDD	2.20e+07	0.90 y	1.04	42:09	1.000	102.71	*	2.5	*	*	Total Hexa-Furans	198	199	*	*	
											Total Hepta-Furans	101	102	*	*	
2,3,7,8-TCDF	4.76e+06	0.77 y	0.91	26:19	1.001	9.2863	*	2.5	*	*						
1,2,3,7,8-PeCDF	2.45e+07	1.62 y	0.97	30:27	1.000	47.082	*	2.5	*	*						
2,3,4,7,8-PeCDF	2.75e+07	1.60 y	0.94	31:22	1.000	52.939	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	2.36e+07	1.30 y	1.32	34:04	1.000	50.507	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	2.53e+07	1.30 y	1.18	34:12	1.001	47.602	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	2.27e+07	1.31 y	1.23	34:48	1.000	49.328	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.95e+07	1.31 y	1.13	35:46	1.001	50.796	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	2.10e+07	1.07 y	1.57	37:36	1.000	50.998	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.82e+07	1.10 y	1.50	39:24	1.000	50.198	*	2.5	*	*						
OCDF	2.90e+07	0.93 y	1.05	42:22	1.000	103.57	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	4.04e+07	0.81 y	1.06	27:05	1.022	100.81					101					
IS 13C-1,2,3,7,8-PeCDD	3.60e+07	0.61 y	1.08	31:38	1.193	87.956					88.0					
IS 13C-1,2,3,4,7,8-HxCDD	2.82e+07	1.23 y	0.74	34:57	1.014	100.88					101					
IS 13C-1,2,3,6,7,8-HxCDD	2.76e+07	1.25 y	0.75	35:04	1.017	97.844					97.8					
IS 13C-1,2,3,7,8,9-HxCDD	3.28e+07	1.23 y	0.89	35:22	1.026	97.753					97.8					
IS 13C-1,2,3,4,6,7,8-HpCDD	2.55e+07	1.06 y	0.70	38:50	1.127	96.292					96.3					
IS 13C-OCDD	4.12e+07	0.89 y	0.59	42:08	1.222	185.80					92.9					
IS 13C-2,3,7,8-TCDF	5.62e+07	0.76 y	0.97	26:18	0.992	100.71					101					
IS 13C-1,2,3,7,8-PeCDF	5.37e+07	1.56 y	0.99	30:26	1.149	93.929					93.9					
IS 13C-2,3,4,7,8-PeCDF	5.53e+07	1.58 y	1.01	31:21	1.183	95.049					95.0					
IS 13C-1,2,3,4,7,8-HxCDF	3.54e+07	0.52 y	0.94	34:04	0.988	100.24					100					
IS 13C-1,2,3,6,7,8-HxCDF	4.52e+07	0.51 y	1.23	34:11	0.992	97.910					97.9					
IS 13C-2,3,4,6,7,8-HxCDF	3.75e+07	0.51 y	1.03	34:47	1.009	96.504					96.5					
IS 13C-1,2,3,7,8,9-HxCDF	3.39e+07	0.51 y	0.89	35:45	1.037	101.97					102					
IS 13C-1,2,3,4,6,7,8-HpCDF	2.62e+07	0.43 y	0.71	37:35	1.090	98.481					98.5					
IS 13C-1,2,3,4,7,8,9-HpCDF	2.41e+07	0.42 y	0.64	39:23	1.142	99.767					99.8					
IS 13C-OCDF	5.32e+07	0.90 y	0.76	42:22	1.229	186.45					93.2					
C/Up 37C1-2,3,7,8-TCDD	4.10e+06		1.04	27:06	1.023	10.413					104					
											Integrations					
											by					
RS/RT 13C-1,2,3,4-TCDD	3.77e+07	0.81 y	1.00	26:30	*	100.00					Analyst: m1					Reviewed
RS 13C-1,2,3,4-TCDF	5.77e+07	0.78 y	1.00	25:03	*	100.00										by
RS/RT 13C-1,2,3,4,6,9-HxCDF	3.76e+07	0.52 y	1.00	34:29	*	100.00										Analyst: [Signature]
											Date: 4/14/14					Date: 4/18/14

File:140417D1 #1-551 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

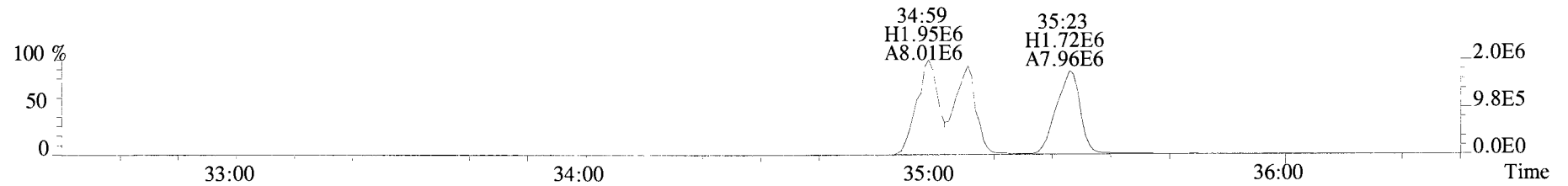




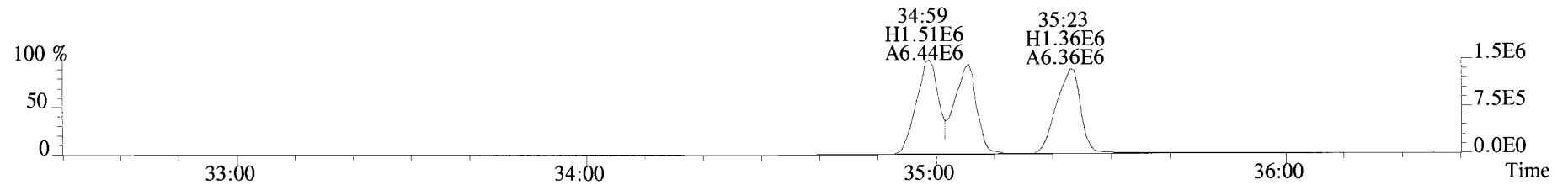
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Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



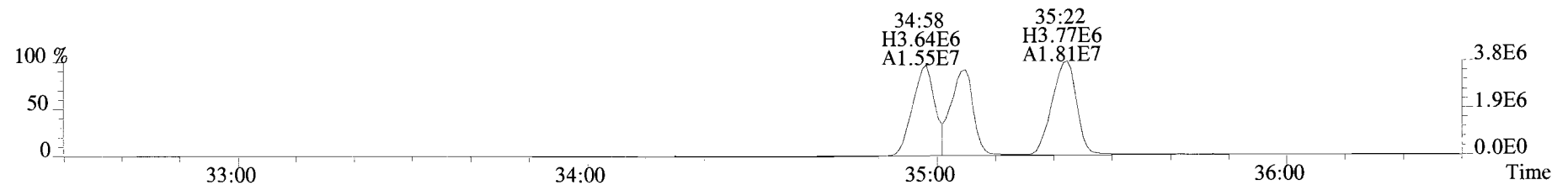
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Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



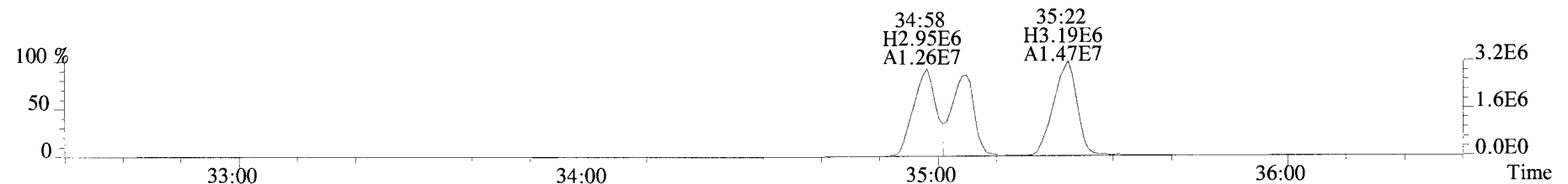
391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



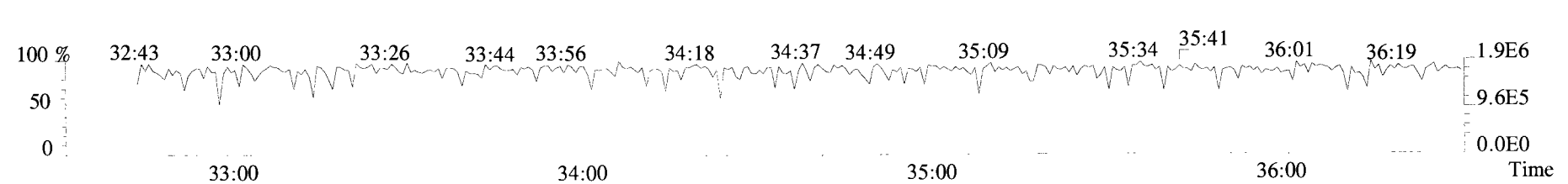
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



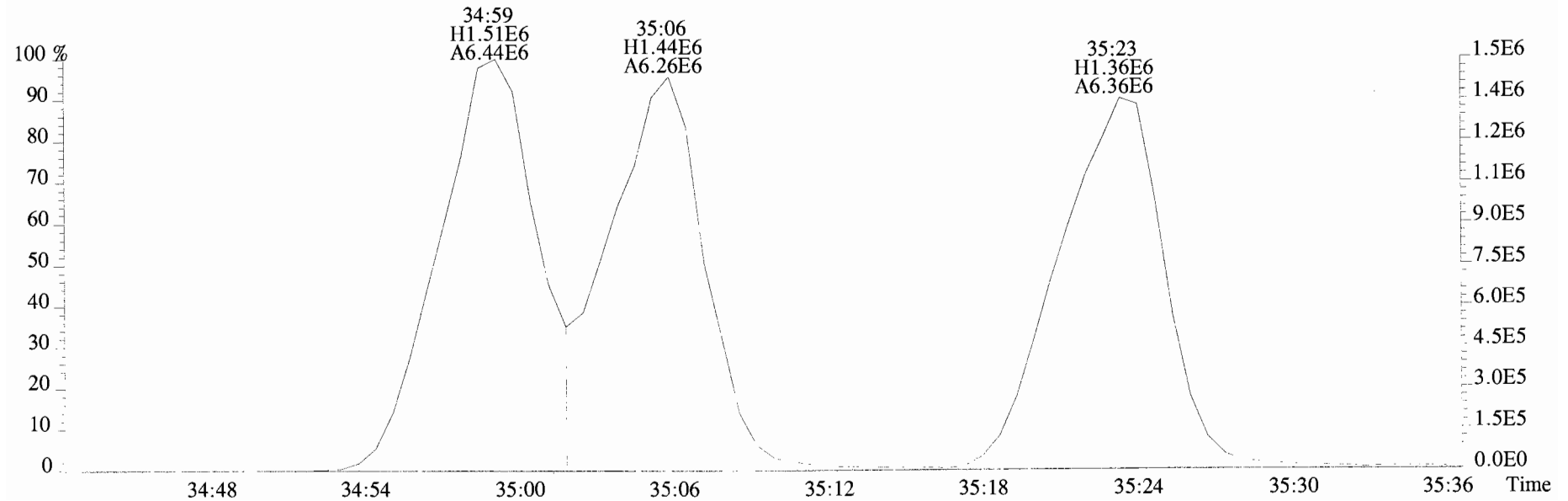
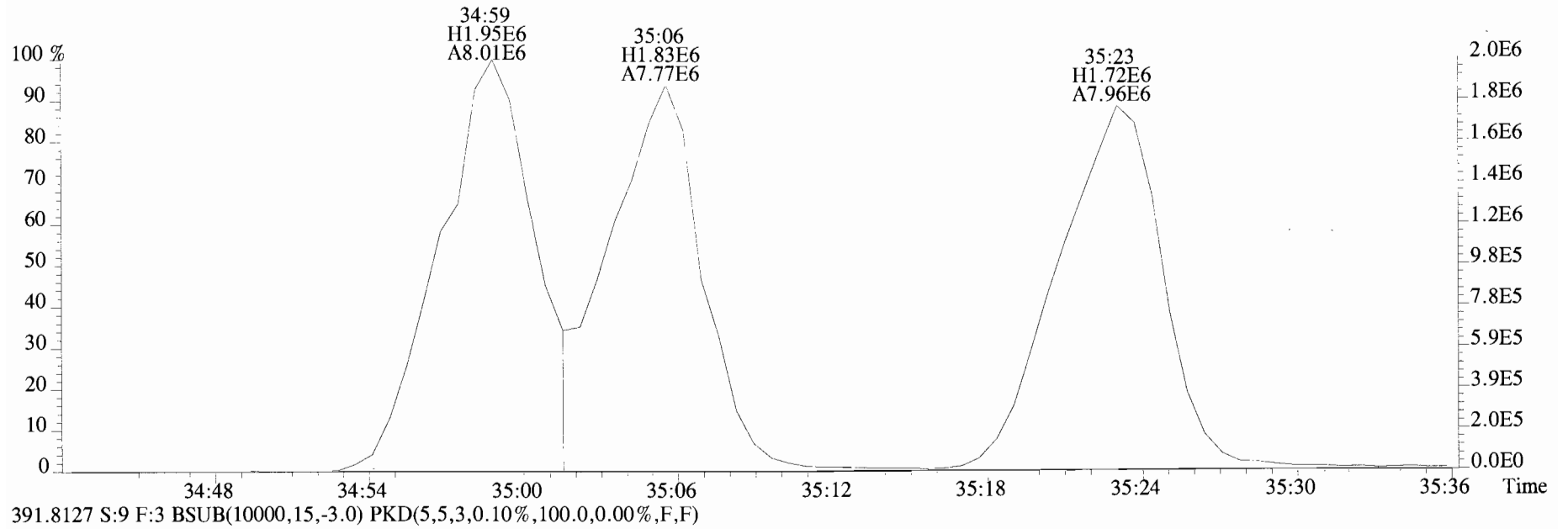
403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



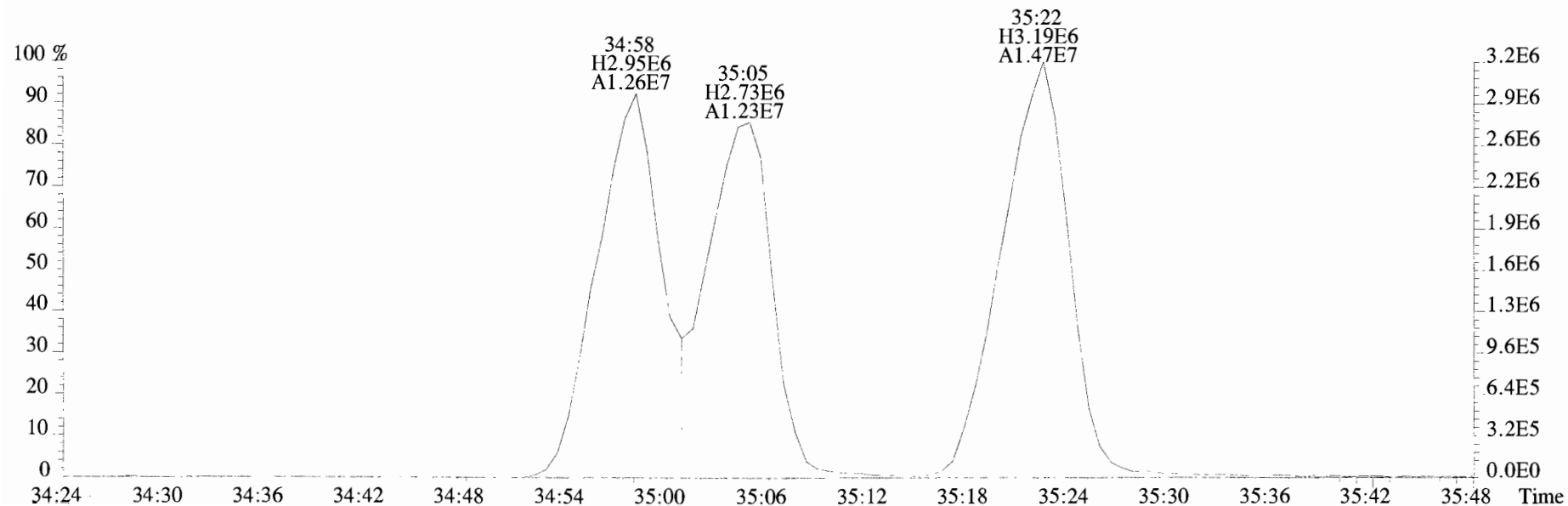
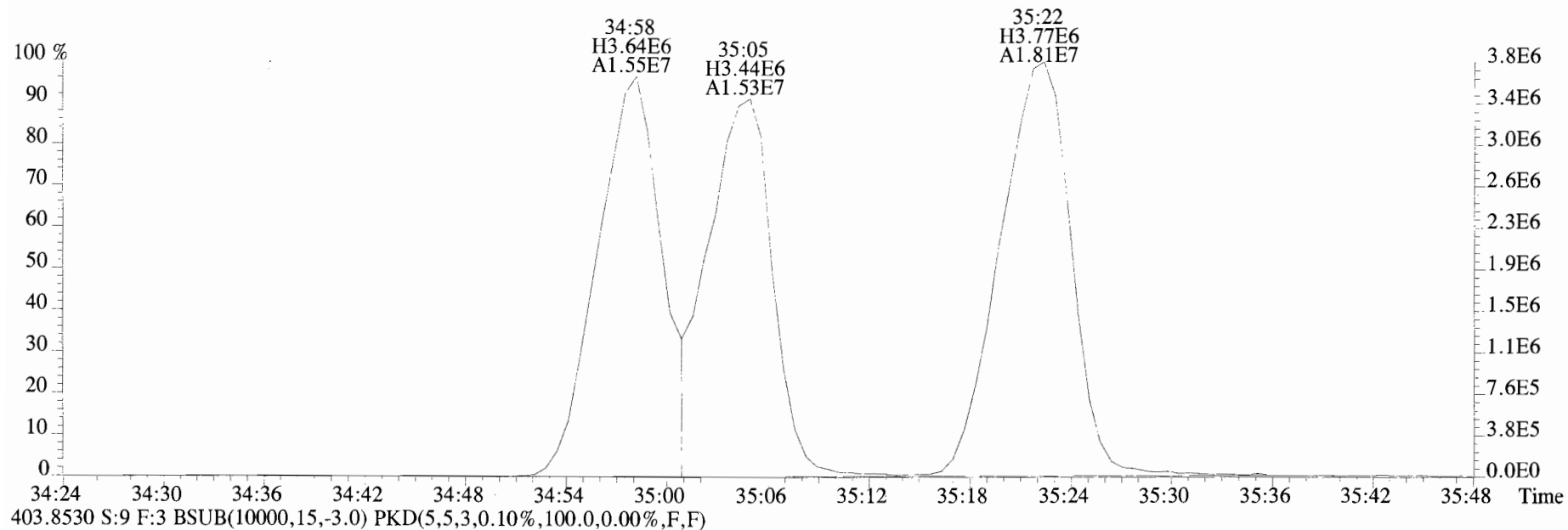
380.9760 S:9 F:3



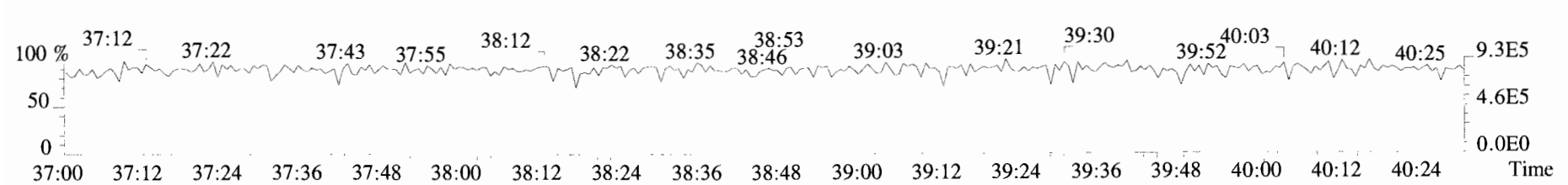
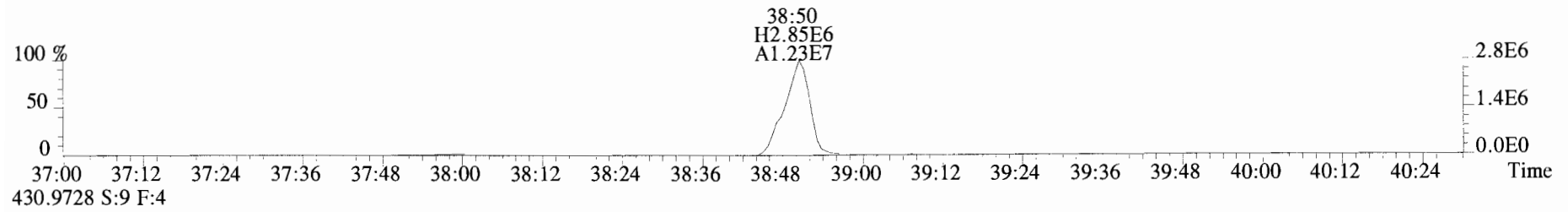
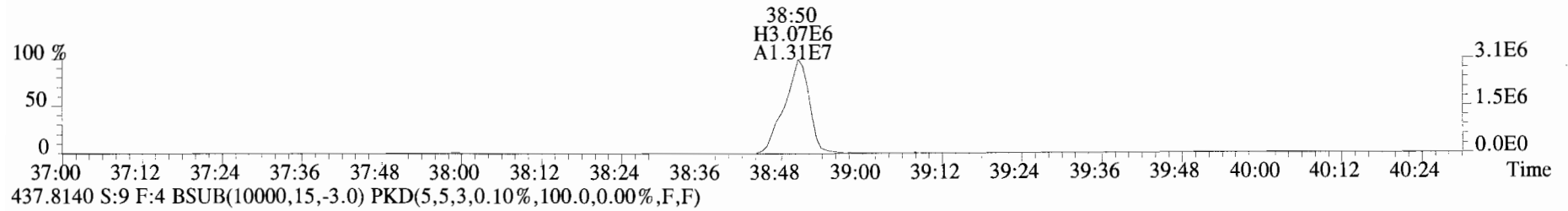
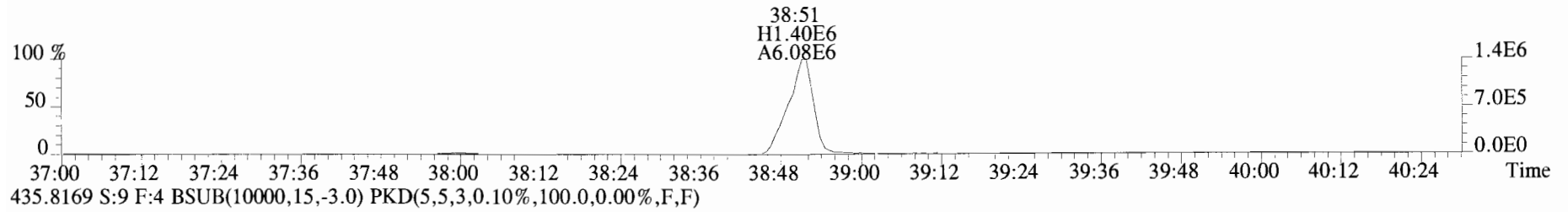
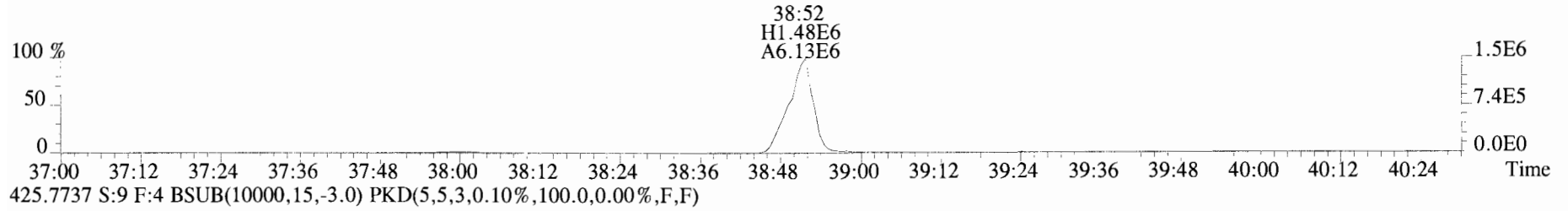
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389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



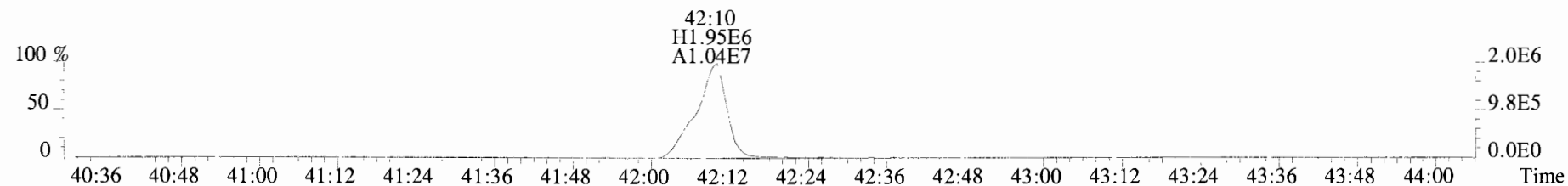
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401.8559 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



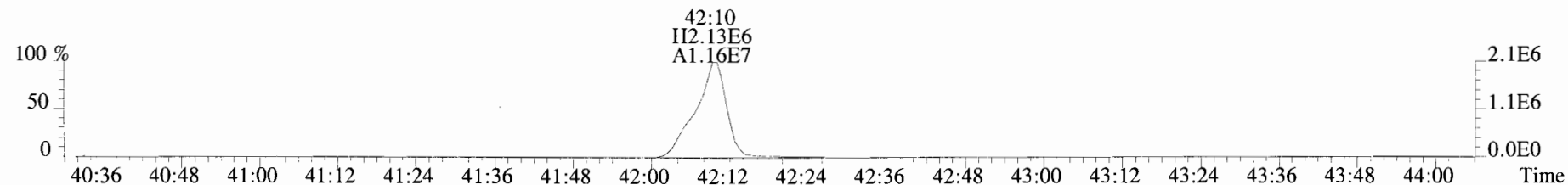
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Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



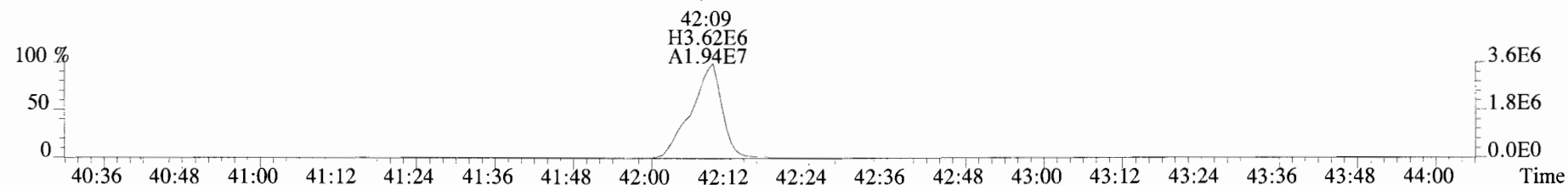
File:140417D1 #1-389 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



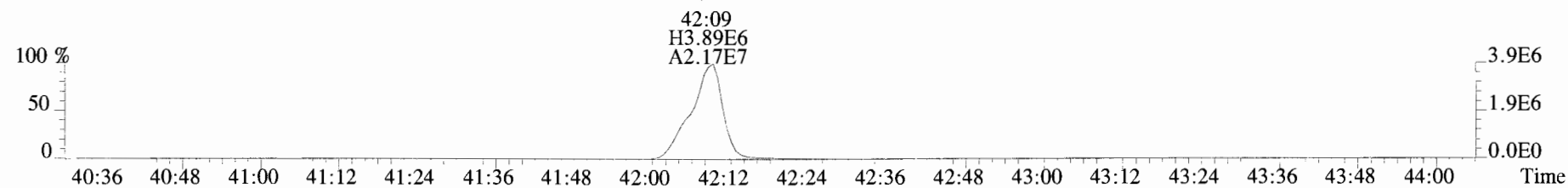
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



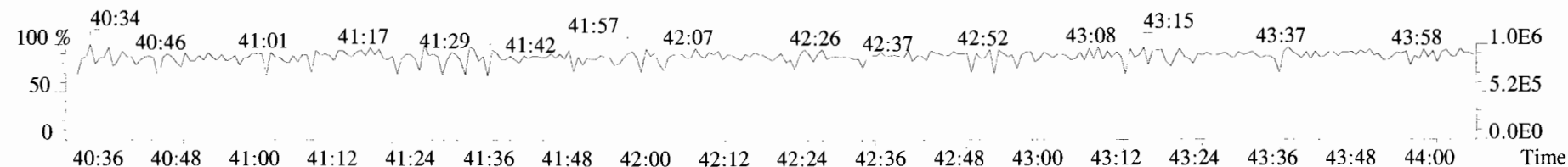
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



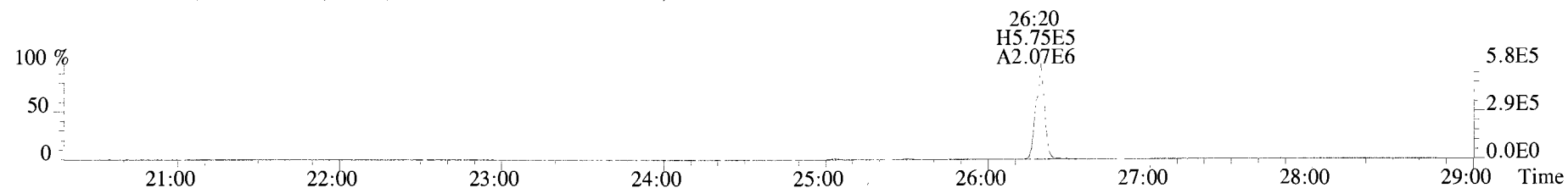
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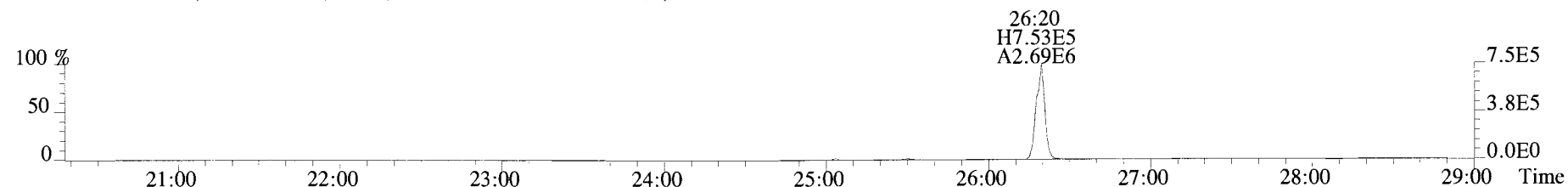
454.9728 S:9 F:5



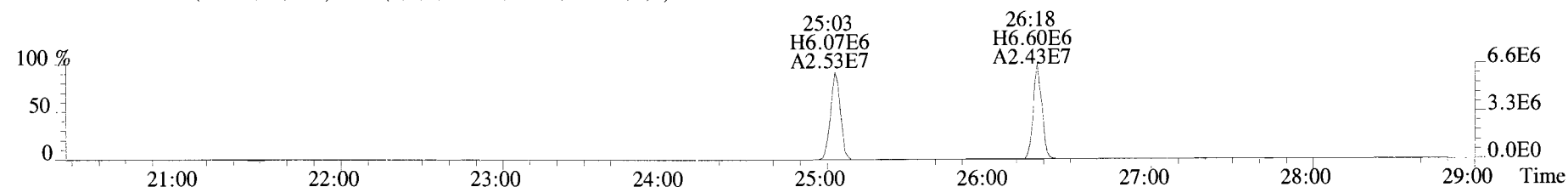
File:140417D1 #1-551 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



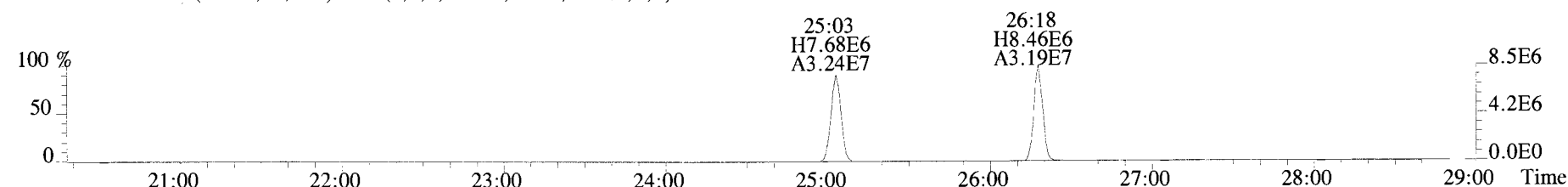
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



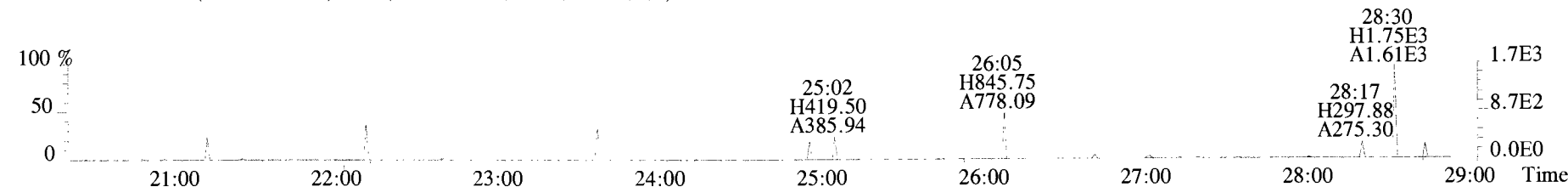
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



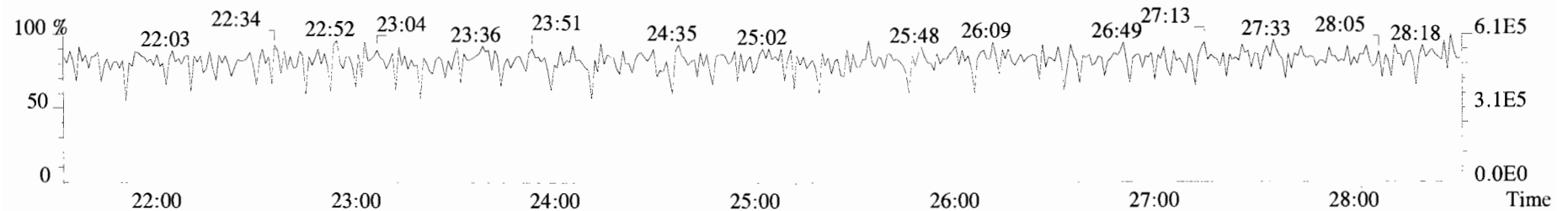
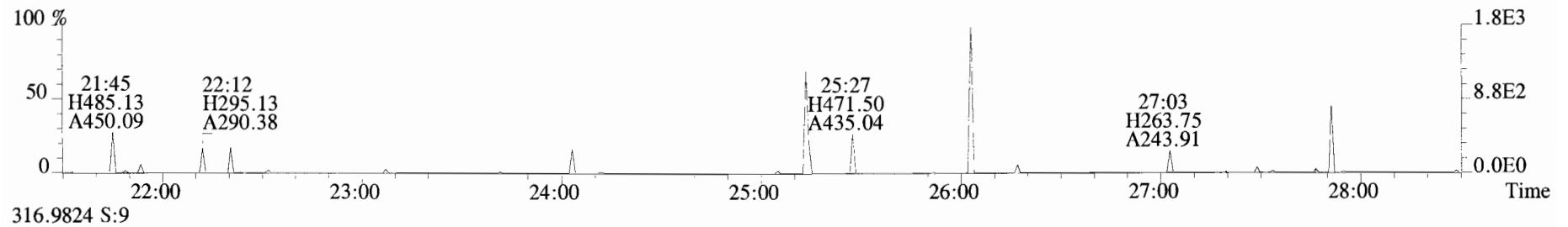
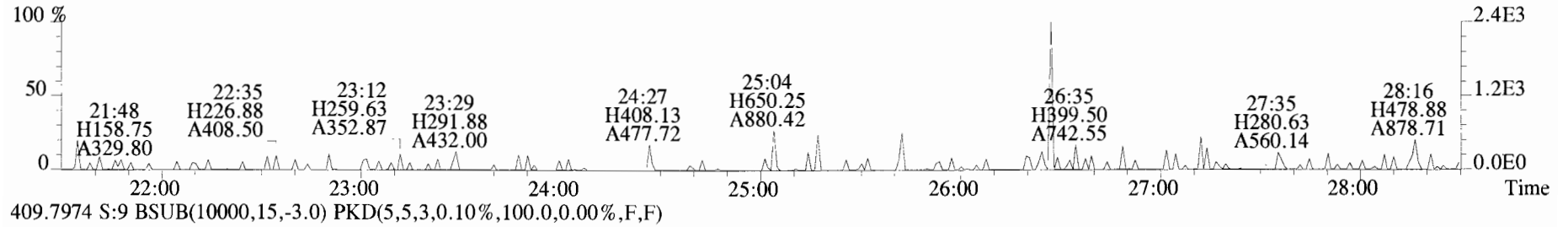
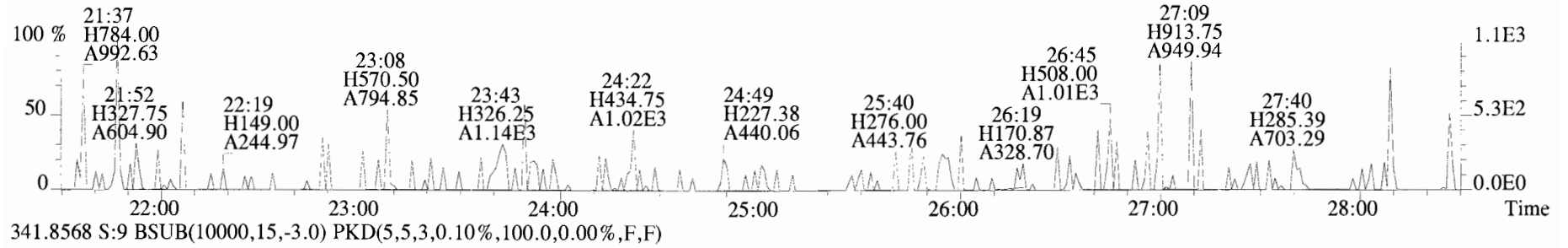
317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

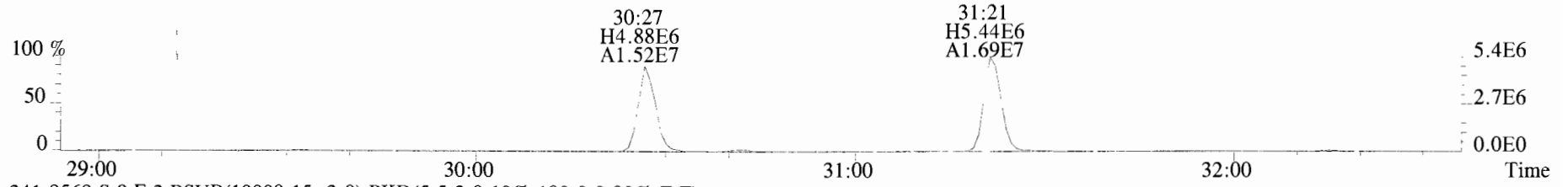


File:140417D1 #1-551 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

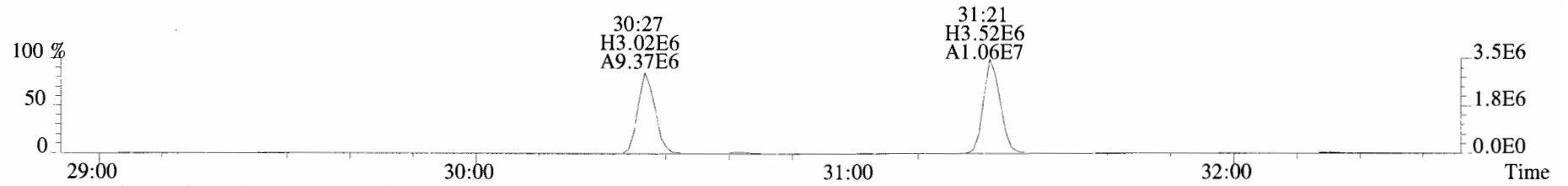




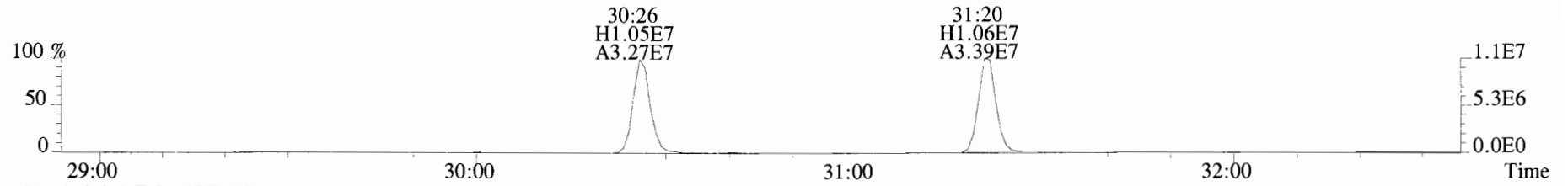
File:140417D1 #1-269 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



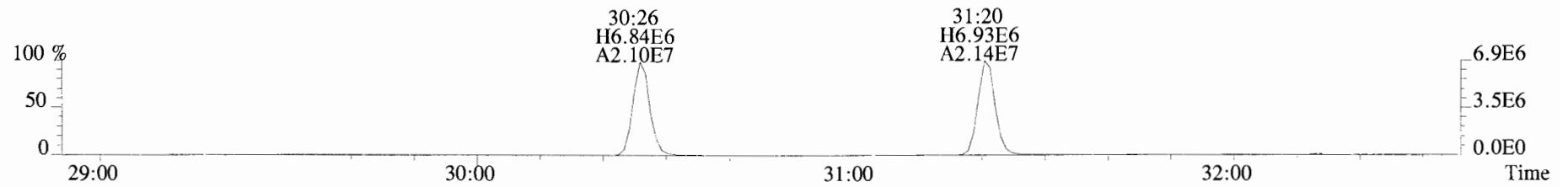
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



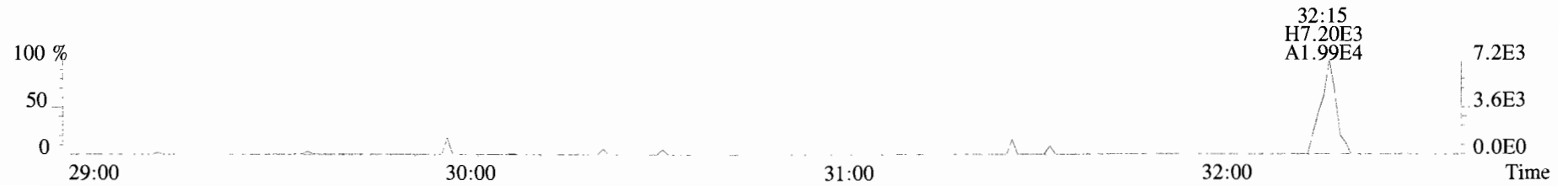
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



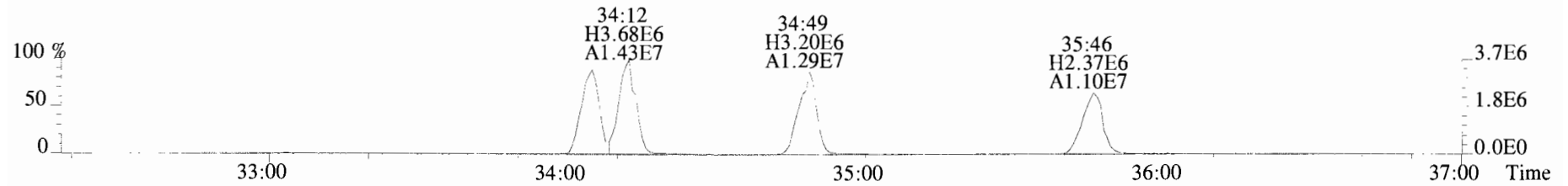
353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



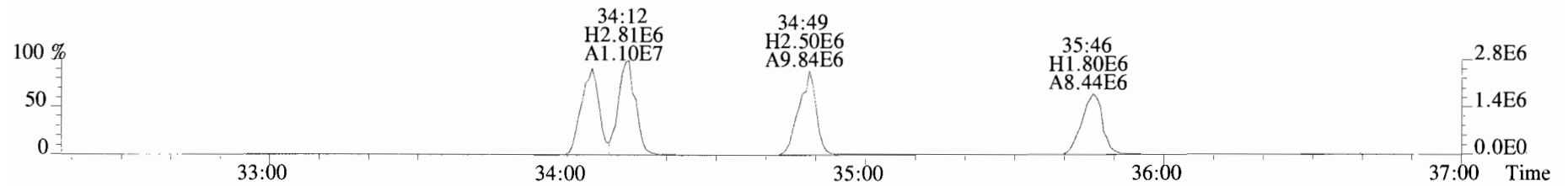
409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



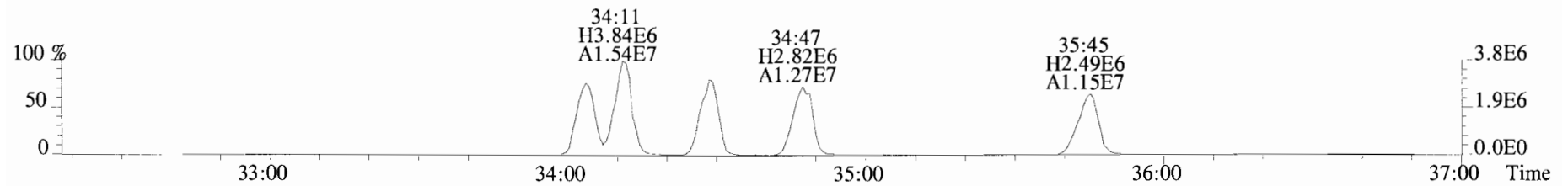
File:140417D1 #1-370 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



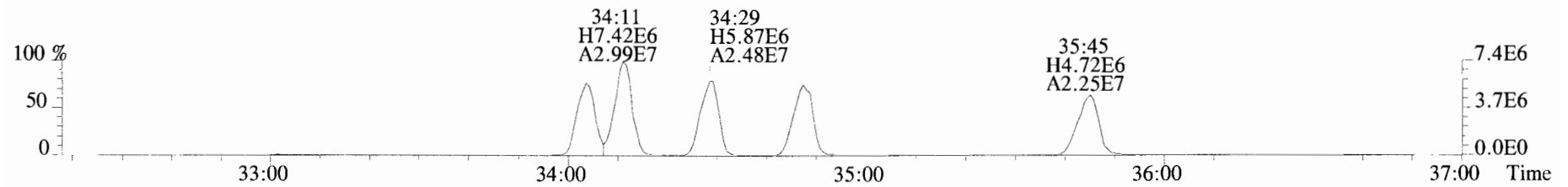
375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



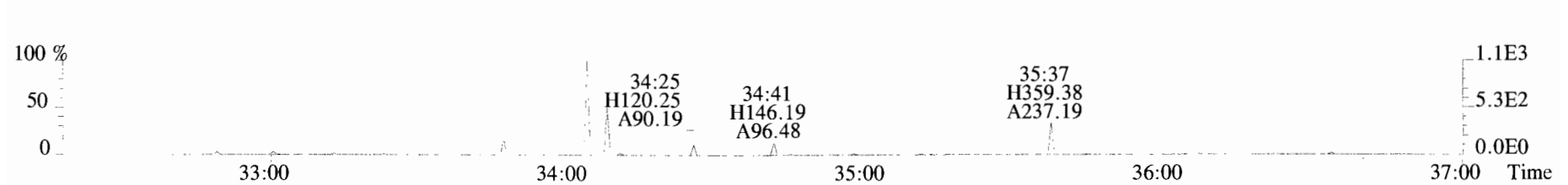
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



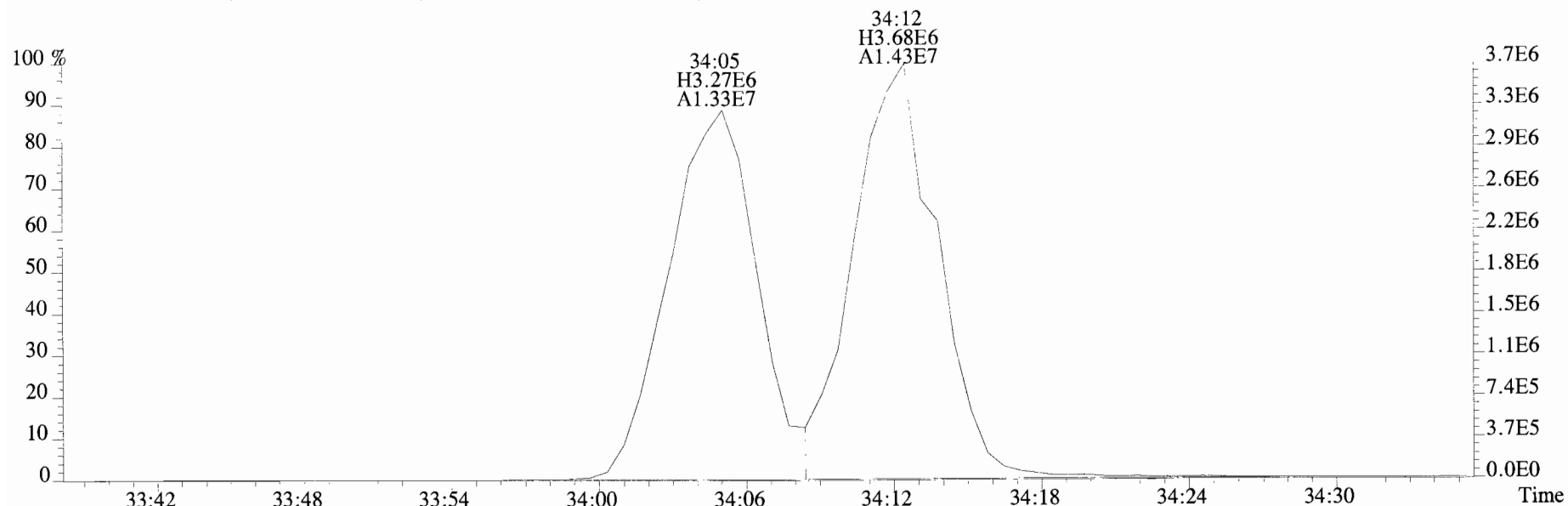
385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



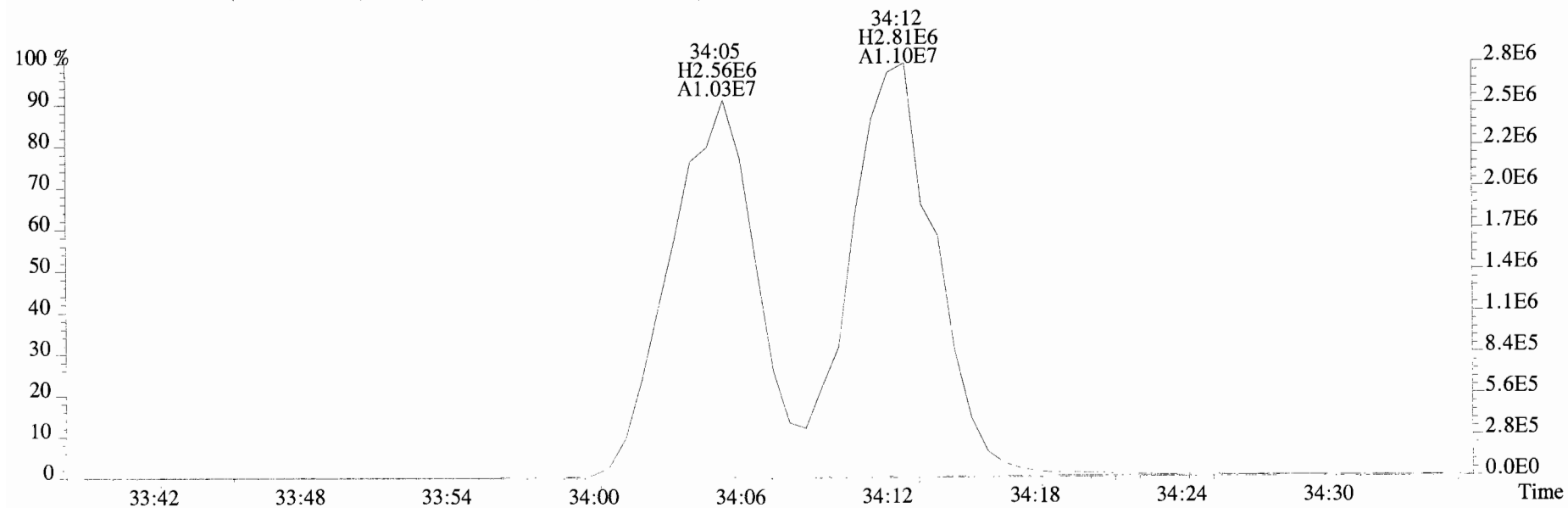
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



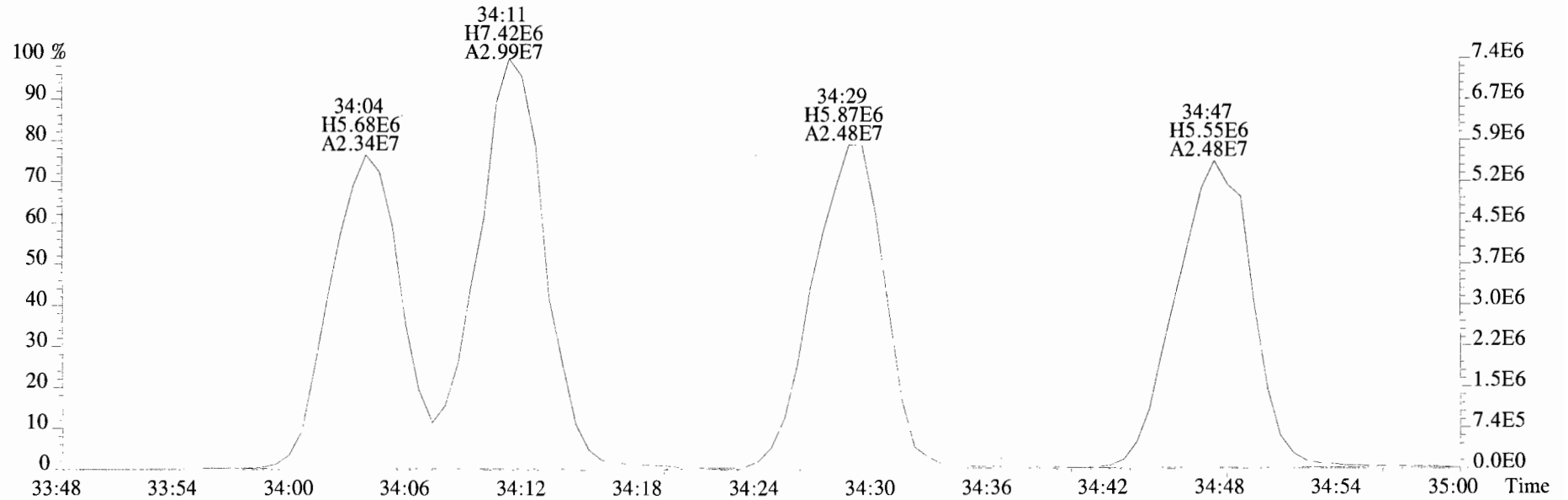
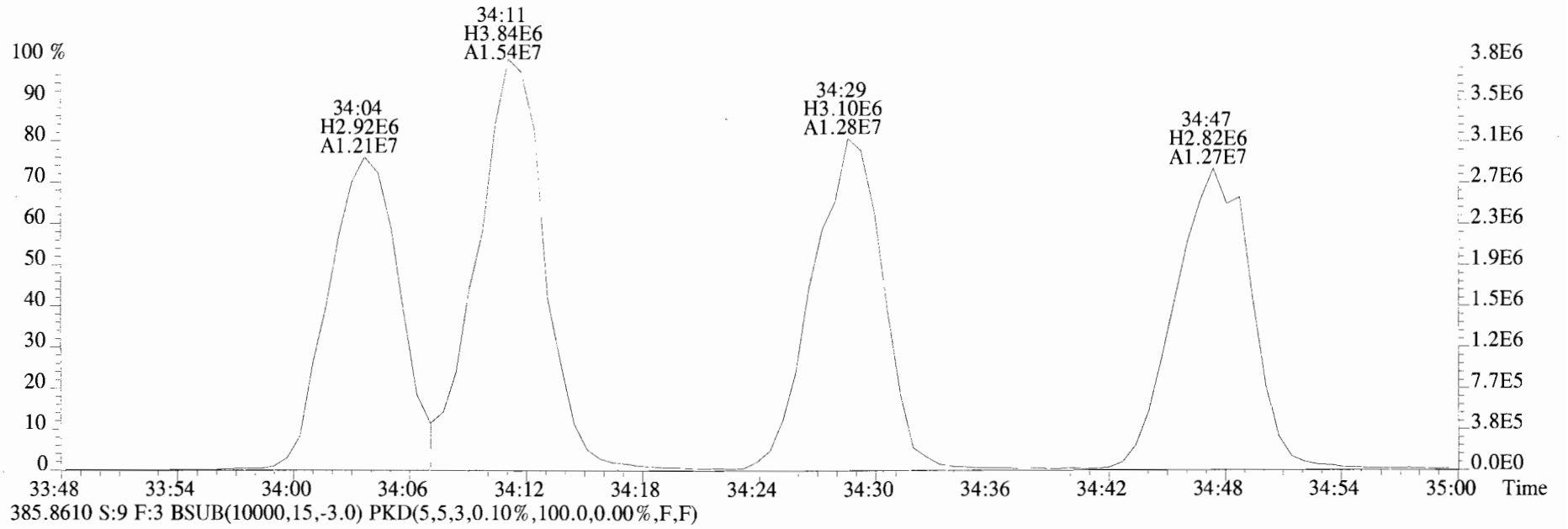
File:140417D1 #1-370 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



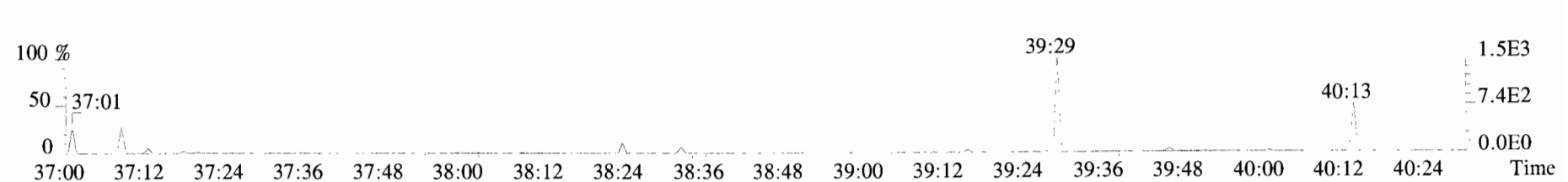
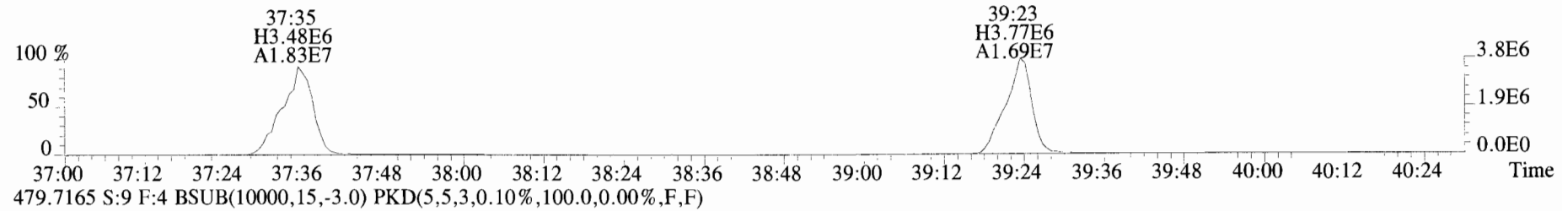
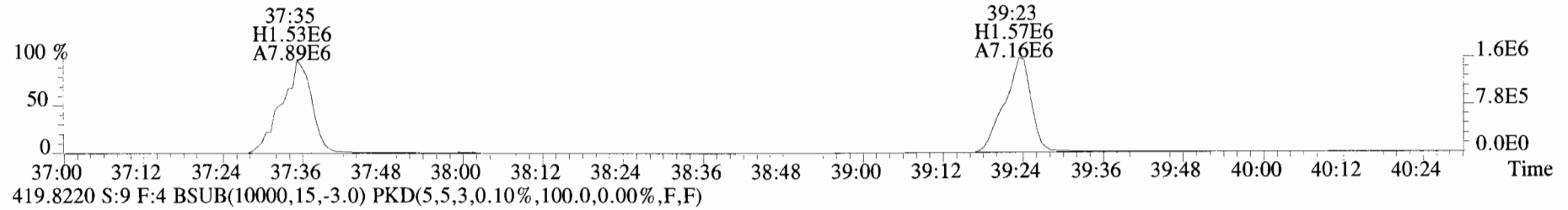
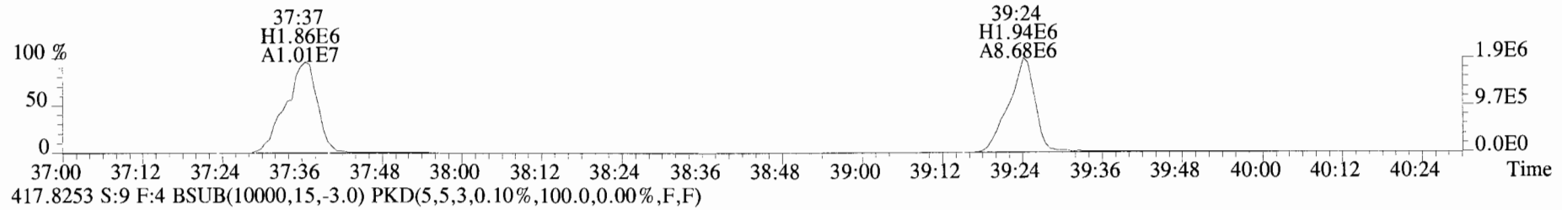
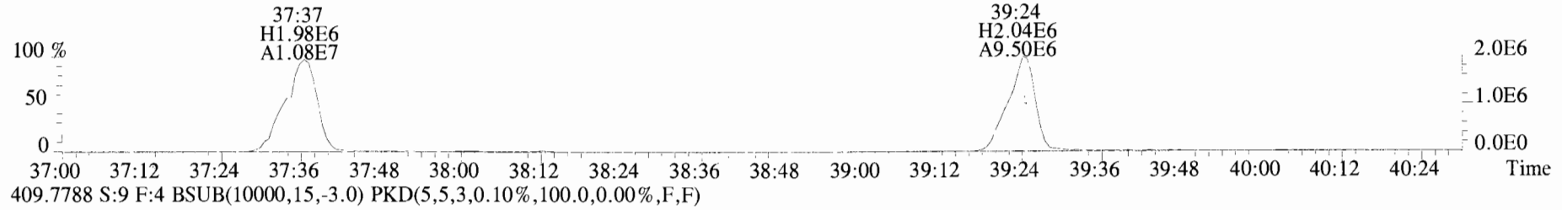
375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



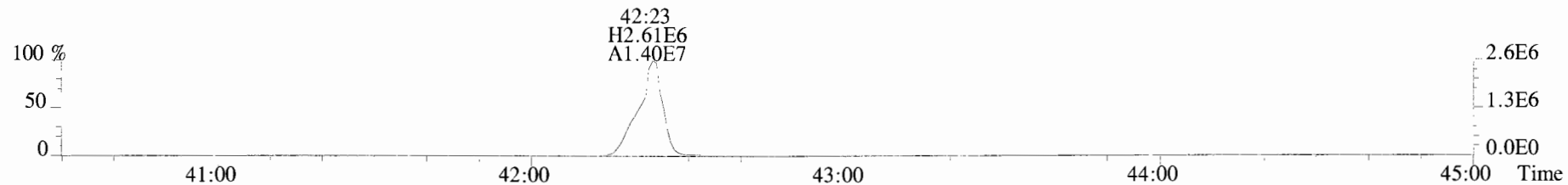
File:140417D1 #1-370 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



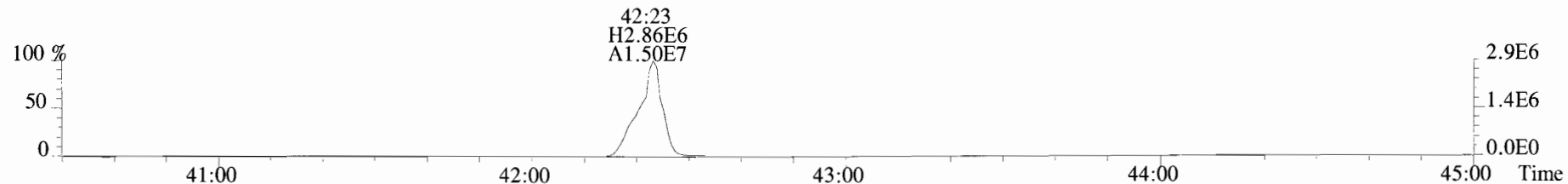
File:140417D1 #1-325 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



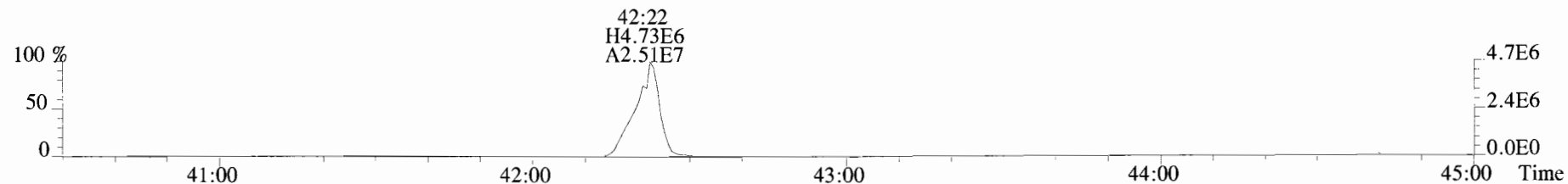
File:140417D1 #1-389 Acq:17-APR-2014 19:35:12 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:SS140417D1-1 1613 SSS 13J2107 Exp:OCDD\_DB5  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



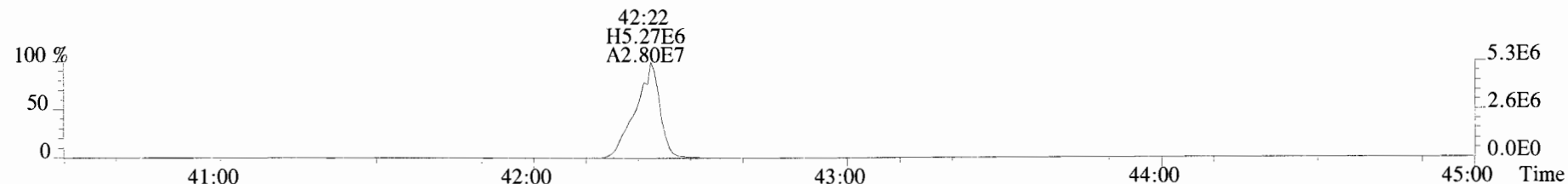
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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*

PCB-48/75	1.30	10.70 %	1.52	1.28	1.33	1.31	1.08	1.30
PCB-65	1.33	13.12 %	1.67	1.30	1.28	1.32	1.15	1.30
PCB-62	1.29	10.74 %	1.39	1.40	1.30	1.38	1.03	1.25
PCB-44	0.94	10.79 %	1.08	0.90	0.98	0.98	0.78	0.92
PCB-42/59	1.22	9.45 %	1.36	1.25	1.21	1.26	1.01	1.21
PCB-41/64/71/72	1.31	8.83 %	1.48	1.32	1.28	1.35	1.12	1.33
PCB-68	1.49	9.40 %	1.63	1.59	1.48	1.51	1.23	1.46
PCB-40	0.82	12.75 %	0.99	0.83	0.82	0.83	0.67	0.78
PCB-57	1.11	10.20 %	1.26	1.18	1.11	1.15	0.92	1.07
PCB-67	1.07	9.89 %	1.05	1.20	1.12	1.15	0.90	1.03
PCB-58	1.10	11.05 %	1.29	1.13	1.12	1.09	0.91	1.07



PCB-63	1.12	7.49 %	1.17	1.17	1.14	1.16	0.95	1.12
PCB-74	1.20	8.89 %	1.31	1.27	1.22	1.25	1.00	1.18
PCB-61/70	1.08	8.22 %	1.18	1.13	1.08	1.10	0.92	1.06
PCB-76/66	1.14	10.54 %	1.31	1.18	1.12	1.17	0.94	1.10
PCB-80	1.28	9.96 %	1.46	1.33	1.28	1.28	1.07	1.24
PCB-55	1.11	7.19 %	1.16	1.17	1.10	1.14	0.96	1.12
PCB-56/60	1.09	10.58 %	1.26	1.12	1.07	1.09	0.91	1.07
PCB-79	1.12	8.90 %	1.26	1.11	1.12	1.15	0.95	1.13
PCB-78	1.24	11.08 %	1.43	1.32	1.20	1.27	1.02	1.18
PCB-81	1.38	9.94 %	1.51	1.50	1.41	1.41	1.14	1.31
PCB-77	1.21	8.98 %	1.33	1.26	1.22	1.25	1.02	1.17
PCB-104	1.26	10.21 %	1.42	1.31	1.28	1.27	1.03	1.22
PCB-96	1.09	9.49 %	1.24	1.12	1.08	1.10	0.92	1.10
PCB-103	0.93	8.17 %	1.00	0.98	0.89	0.95	0.80	0.98
PCB-100	1.00	7.45 %	1.03	1.08	0.97	1.01	0.87	1.05
PCB-94	1.11	11.35 %	1.31	1.11	1.11	1.13	0.91	1.08
PCB-95/98/102	1.21	9.28 %	1.36	1.25	1.18	1.30	1.04	1.17
PCB-93	1.13	18.48 %	1.36	1.34	1.21	0.95	0.84	1.08
PCB-88/91	1.02	8.29 %	1.00	1.06	1.02	1.15	0.89	1.00
PCB-121	1.90	16.11 %	2.27	2.21	1.94	1.69	1.46	1.85
PCB-84/92	1.05	9.56 %	1.15	1.13	1.05	1.09	0.87	1.02
PCB-89	1.02	10.73 %	1.15	1.04	1.02	1.08	0.83	0.98
PCB-90/101	1.19	9.91 %	1.34	1.26	1.19	1.21	0.99	1.15
PCB-113	1.35	10.72 %	1.54	1.26	1.32	1.51	1.16	1.33
PCB-99	1.29	12.88 %	1.43	1.48	1.35	1.20	1.03	1.24
PCB-119	1.72	7.60 %	1.78	1.88	1.72	1.73	1.48	1.73
PCB-108/112	1.29	7.44 %	1.31	1.39	1.29	1.33	1.10	1.30
PCB-83	1.52	7.96 %	1.66	1.53	1.51	1.58	1.30	1.54
PCB-97	1.25	8.07 %	1.35	1.26	1.27	1.32	1.06	1.23
PCB-86	1.02	10.03 %	1.19	0.96	1.05	0.98	0.90	1.06
PCB-87/117/125	1.56	6.32 %	1.67	1.60	1.55	1.59	1.37	1.57
PCB-111/115	1.75	13.48 %	2.16	1.80	1.69	1.76	1.43	1.66
PCB-85/116	1.30	6.67 %	1.30	1.35	1.33	1.34	1.13	1.35
PCB-120	1.78	10.02 %	2.08	1.80	1.76	1.75	1.52	1.77
PCB-110	1.68	10.37 %	1.90	1.78	1.65	1.72	1.38	1.64
PCB-82	0.74	11.58 %	0.83	0.83	0.73	0.73	0.60	0.71
PCB-124	1.32	11.30 %	1.54	1.34	1.33	1.32	1.07	1.33
PCB-107/109	1.22	8.01 %	1.35	1.31	1.18	1.24	1.08	1.17
PCB-123	1.22	9.00 %	1.30	1.30	1.23	1.28	1.01	1.20
PCB-106/118	1.22	9.57 %	1.37	1.27	1.25	1.26	1.01	1.19
PCB-114	1.36	10.69 %	1.57	1.37	1.36	1.37	1.11	1.35
PCB-122	1.24	10.69 %	1.41	1.32	1.20	1.25	1.02	1.22
PCB-105	1.28	7.83 %	1.36	1.29	1.33	1.34	1.09	1.28
PCB-127	1.14	11.20 %	1.33	1.18	1.14	1.16	0.94	1.09
PCB-126	1.28	9.08 %	1.46	1.28	1.28	1.32	1.10	1.27
PCB-155	1.14	7.40 %	1.11	1.20	1.18	1.20	0.98	1.15
PCB-150	1.06	7.11 %	1.15	1.04	1.05	1.11	0.94	1.10
PCB-152	1.10	11.78 %	1.32	1.08	1.06	1.12	0.92	1.09
PCB-145	1.09	12.69 %	1.35	1.06	1.05	1.11	0.92	1.08
PCB-136	1.08	11.65 %	1.25	1.02	1.08	1.14	0.88	1.14

PCB-148	0.74	7.71 %	0.84	0.75	0.68	0.75	0.70	0.72
PCB-154	0.88	8.65 %	0.96	0.88	0.88	0.93	0.74	0.91
PCB-151	0.81	9.63 %	0.91	0.82	0.78	0.86	0.68	0.81
PCB-135	0.78	6.32 %	0.83	0.75	0.76	0.81	0.70	0.82
PCB-144	0.82	10.98 %	0.93	0.81	0.78	0.90	0.68	0.82
PCB 147	0.83	12.38 %	1.00	0.76	0.78	0.88	0.70	0.85
PCB-139/149	0.84	7.77 %	0.91	0.82	0.83	0.91	0.73	0.86
PCB-140	0.79	11.18 %	0.91	0.73	0.76	0.86	0.66	0.80
PCB-134/143	0.93	12.49 %	1.13	0.94	0.90	0.94	0.78	0.87
PCB-133/142	0.95	11.69 %	1.12	0.98	0.91	0.96	0.79	0.90
PCB-131	0.91	13.39 %	1.11	0.96	0.90	0.90	0.74	0.87

PCB-146/165	1.16	9.91 %	1.33	1.19	1.14	1.16	0.97	1.13
PCB-132/161	1.11	10.87 %	1.31	1.14	1.09	1.13	0.93	1.07
PCB-153	1.18	8.19 %	1.21	1.24	1.26	1.18	0.99	1.18
PCB-168	1.37	10.18 %	1.56	1.44	1.37	1.37	1.14	1.35
PCB-141	0.97	8.49 %	1.08	1.00	0.97	0.99	0.83	0.99
PCB-137	1.07	6.76 %	1.12	1.16	1.05	1.03	0.96	1.11
PCB-130	0.85	9.16 %	0.85	0.83	0.87	0.94	0.71	0.69
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

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

13C-PCB-194	0.81	1.33 %	0.82	0.82	0.82	0.80	0.81	0.79
13C-PCB-208	1.12	2.11 %	1.10	1.14	1.13	1.14	1.14	1.09
13C-PCB-206	0.66	3.31 %	0.63	0.65	0.66	0.70	0.65	0.65
13C-PCB-209	0.61	2.62 %	0.59	0.60	0.62	0.64	0.61	0.62
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.01	4.78 %	0.97	0.97	0.99	1.09	0.99	1.02
13C-PCB-178	0.63	4.30 %	0.62	0.61	0.62	0.69	0.62	0.62
13C-PCB-79	1.20	5.38 %	1.18	1.18	1.17	1.33	1.15	1.19
13C-PCB-178	0.94	5.01 %	0.88	0.91	0.92	1.02	0.93	0.96

Filename: 140620E1 S: 1      Acquired: 20-JUN-14 09:31:44  
 Run: 140620E1    Analyte:            ICal: PCBVG8-6-20-14      Results:  
 Sample text: ST140620E1-1 PCB CS0 13H1202

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	4.35e+05	2.82 y	16:14	-	1.37
2	Mono	PCB-2	0.25	4.10e+05	3.17 y	18:35	-	1.27
3	Mono	PCB-3	0.25	4.22e+05	2.92 y	18:49	-	1.31
4	Di	PCB-4/10	1.00	1.23e+06	1.61 y	20:10	-	1.67
5	Di	PCB-7/9	1.00	1.58e+06	1.70 y	21:56	-	1.43
6	Di	PCB-6	0.50	8.23e+05	1.36 y	22:35	-	1.49
7	Di	PCB-5/8	1.00	1.42e+06	1.76 y	23:00	-	1.29
8	Di	PCB-14	0.50	8.96e+05	1.59 y	24:05	-	1.45
9	Di	PCB-11	0.50	8.18e+05	1.39 y	25:16	-	1.33
10	Di	PCB-12/13	1.00	1.48e+06	1.71 y	25:40	-	1.20
11	Di	PCB-15	0.50	8.65e+05	1.43 y	25:58	-	1.40
12	Tri	PCB-19	0.25	2.94e+05	1.11 y	24:16	-	1.63
13	Tri	PCB-30	0.25	3.70e+05	0.89 y	25:09	-	2.06
14	Tri	PCB-18	0.25	2.78e+05	1.19 y	25:54	-	1.03
15	Tri	PCB-17	0.25	2.82e+05	0.94 y	26:04	-	1.04
16	Tri	PCB-24/27	0.50	7.21e+05	1.01 y	26:38	-	1.33
17	Tri	PCB-16/32	0.50	6.64e+05	1.06 y	27:09	-	1.23
18	Tri	PCB-34	0.25	3.70e+05	1.06 y	27:56	-	1.47
19	Tri	PCB-23	0.25	3.85e+05	1.19 y	28:02	-	1.54
20	Tri	PCB-29	0.25	4.36e+05	1.18 y	28:17	-	1.74
21	Tri	PCB-26	0.25	4.07e+05	0.97 y	28:29	-	1.62
22	Tri	PCB-25	0.25	4.10e+05	1.07 y	28:39	-	1.63
23	Tri	PCB-31	0.25	4.70e+05	1.15 y	29:00	-	1.87
24	Tri	PCB-28	0.25	4.03e+05	1.12 y	29:07	-	1.60
25	Tri	PCB-20/21/33	0.75	1.20e+06	1.11 y	29:43	-	1.59
26	Tri	PCB-22	0.25	3.76e+05	1.05 y	30:10	-	1.50
27	Tri	PCB-36	0.25	3.74e+05	1.12 y	30:47	-	1.47
28	Tri	PCB-39	0.25	3.99e+05	1.02 y	31:14	-	1.58
29	Tri	PCB-38	0.25	3.51e+05	1.20 y	32:00	-	1.39
30	Tri	PCB-35	0.25	3.85e+05	1.07 y	32:32	-	1.52
31	Tri	PCB-37	0.25	4.00e+05	0.99 y	32:58	-	1.58
32	Tetra	PCB-54	0.25	3.02e+05	0.84 y	27:59	-	1.29
33	Tetra	PCB-50	0.25	2.51e+05	0.85 y	29:09	-	1.08
34	Tetra	PCB-53	0.25	2.75e+05	0.70 y	29:47	-	1.42
35	Tetra	PCB-51	0.25	2.35e+05	0.68 y	30:08	-	1.21
36	Tetra	PCB-45	0.25	2.02e+05	0.82 y	30:34	-	1.04
37	Tetra	PCB-46	0.25	2.36e+05	0.75 y	31:04	-	1.21
38	Tetra	PCB-52/69	0.50	5.24e+05	0.82 y	31:32	-	1.35
39	Tetra	PCB-73	0.25	2.76e+05	0.88 y	31:39	-	1.42
40	Tetra	PCB-43/49	0.50	5.07e+05	0.72 y	31:49	-	1.30



41	Tetra	PCB-47	0.25	2.69e+05	0.78 y	32:00	-	1.34
42	Tetra	PCB-48/75	0.50	6.11e+05	0.75 y	32:07	-	1.52
43	Tetra	PCB-65	0.25	3.35e+05	0.81 y	32:23	-	1.67
44	Tetra	PCB-62	0.25	2.78e+05	0.66 y	32:30	-	1.39
45	Tetra	PCB-44	0.25	2.18e+05	0.67 y	32:48	-	1.08
46	Tetra	PCB-42/59	0.50	5.48e+05	0.72 y	33:02	-	1.36
47	Tetra	PCB-41/64/71/72	1.00	1.19e+06	0.71 y	33:37	-	1.48
48	Tetra	PCB-68	0.25	3.28e+05	0.80 y	33:52	-	1.63
49	Tetra	PCB-40	0.25	1.99e+05	0.82 y	34:05	-	0.99
50	Tetra	PCB-57	0.25	3.26e+05	0.66 y	34:27	-	1.26
51	Tetra	PCB-67	0.25	2.73e+05	0.74 y	34:45	-	1.05

52	Tetra	PCB-58	0.25	3.35e+05	0.79 y	34:52	-	1.29
53	Tetra	PCB-63	0.25	3.04e+05	0.78 y	35:01	-	1.17
54	Tetra	PCB-74	0.25	3.39e+05	0.76 y	35:18	-	1.31
55	Tetra	PCB-61/70	0.50	6.13e+05	0.75 y	35:29	-	1.18
56	Tetra	PCB-76/66	0.50	6.79e+05	0.81 y	35:42	-	1.31
57	Tetra	PCB-80	0.25	3.81e+05	0.73 y	35:56	-	1.46
58	Tetra	PCB-55	0.25	3.04e+05	0.81 y	36:16	-	1.16
59	Tetra	PCB-56/60	0.50	6.61e+05	0.75 y	36:46	-	1.26
60	Tetra	PCB-79	0.25	3.31e+05	0.86 y	37:48	-	1.26
61	Tetra	PCB-78	0.25	3.20e+05	0.80 y	38:30	-	1.43
62	Tetra	PCB-81	0.25	3.39e+05	0.75 y	39:02	-	1.51
63	Tetra	PCB-77	0.25	3.19e+05	0.68 y	39:38	-	1.33
64	Penta	PCB-104	0.25	2.39e+05	1.52 y	32:40	-	1.42
65	Penta	PCB-96	0.25	2.08e+05	1.62 y	33:56	-	1.24
66	Penta	PCB-103	0.25	1.68e+05	1.38 y	34:27	-	1.00
67	Penta	PCB-100	0.25	1.73e+05	1.61 y	34:49	-	1.03
68	Penta	PCB-94	0.25	1.64e+05	1.42 y	35:17	-	1.31
69	Penta	PCB-95/98/102	0.75	5.11e+05	1.73 y	35:45	-	1.36
70	Penta	PCB-93	0.25	1.71e+05	1.64 y	35:54	-	1.36
71	Penta	PCB-88/91	0.50	2.51e+05	1.76 y	36:10	-	1.00
72	Penta	PCB-121	0.25	2.86e+05	1.39 y	36:17	-	2.27
73	Penta	PCB-84/92	0.50	3.08e+05	1.45 y	37:07	-	1.15
74	Penta	PCB-89	0.25	1.54e+05	1.32 y	37:19	-	1.15
75	Penta	PCB-90/101	0.50	3.59e+05	1.43 y	37:29	-	1.34
76	Penta	PCB-113	0.25	2.06e+05	1.63 y	37:44	-	1.54
77	Penta	PCB-99	0.25	1.92e+05	1.34 y	37:49	-	1.43
78	Penta	PCB-119	0.25	2.11e+05	1.49 y	38:18	-	1.78
79	Penta	PCB-108/112	0.50	3.11e+05	1.68 y	38:27	-	1.31
80	Penta	PCB-83	0.25	1.96e+05	1.33 y	38:37	-	1.66
81	Penta	PCB-97	0.25	1.60e+05	1.69 y	38:48	-	1.35
82	Penta	PCB-86	0.25	1.41e+05	1.52 y	38:56	-	1.19
83	Penta	PCB-87/117/125	0.75	5.92e+05	1.55 y	39:04	-	1.67
84	Penta	PCB-111/115	0.50	5.11e+05	1.55 y	39:14	-	2.16
85	Penta	PCB-85/116	0.50	3.09e+05	1.69 y	39:22	-	1.30
86	Penta	PCB-120	0.25	2.47e+05	1.58 y	39:35	-	2.08
87	Penta	PCB-110	0.25	2.26e+05	1.34 y	39:44	-	1.90
88	Penta	PCB-82	0.25	1.23e+05	1.66 y	40:23	-	0.83
89	Penta	PCB-124	0.25	2.30e+05	1.74 y	41:02	-	1.54
90	Penta	PCB-107/109	0.50	4.02e+05	1.57 y	41:12	-	1.35
91	Penta	PCB-123	0.25	1.93e+05	1.66 y	41:22	-	1.30
92	Penta	PCB-106/118	0.50	4.29e+05	1.45 y	41:33	-	1.37
93	Penta	PCB-114	0.25	2.76e+05	1.56 y	42:12	-	1.57
94	Penta	PCB-122	0.25	2.48e+05	1.55 y	42:20	-	1.41
95	Penta	PCB-105	0.25	2.42e+05	1.73 y	43:04	-	1.36
96	Penta	PCB-127	0.25	2.56e+05	1.65 y	43:24	-	1.33
97	Penta	PCB-126	0.25	2.38e+05	1.59 y	45:17	-	1.46
98	Hexa	PCB-155	0.25	1.62e+05	1.06 y	37:03	-	1.11
99	Hexa	PCB-150	0.25	1.67e+05	1.15 y	38:19	-	1.15
100	Hexa	PCB-152	0.25	1.92e+05	1.35 y	38:47	-	1.32
101	Hexa	PCB-145	0.25	1.95e+05	1.19 y	39:13	-	1.35

102	Hexa	PCB-136	0.25	1.62e+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	Mono	η	13C-PCB-1	100.00	3.46e+08	3.25 y	16:14	-	0.91
184	Mono	η	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	Tetrη	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

42	Tetra	PCB-48/75	800.00	9.95e+08	0.78 y	32:08	-	1.08
43	Tetra	PCB-65	400.00	5.26e+08	0.77 y	32:24	-	1.15
44	Tetra	PCB-62	400.00	4.75e+08	0.78 y	32:31	-	1.03
45	Tetra	PCB-44	400.00	3.59e+08	0.78 y	32:49	-	0.78
46	Tetra	PCB-42/59	800.00	9.31e+08	0.78 y	33:03	-	1.01
47	Tetra	PCB-41/64/71/72	1600.00	2.06e+09	0.78 y	33:38	-	1.12
48	Tetra	PCB-68	400.00	5.66e+08	0.78 y	33:53	-	1.23
49	Tetra	PCB-40	400.00	3.06e+08	0.78 y	34:07	-	0.67
50	Tetra	PCB-57	400.00	5.45e+08	0.78 y	34:27	-	0.92
51	Tetra	PCB-67	400.00	5.29e+08	0.77 y	34:45	-	0.90
52	Tetra	PCB-58	400.00	5.39e+08	0.78 y	34:53	-	0.91

53	Tetra	PCB-63	400.00	5.63e+08	0.78	y	35:02	-	0.95
54	Tetra	PCB-74	400.00	5.92e-08	0.78	y	35:19	-	1.00
55	Tetra	PCB-61/70	800.00	1.09e+09	0.78	y	35:30	-	0.92
56	Tetra	PCB-76/66	800.00	1.11e+09	0.78	y	35:43	-	0.94
57	Tetra	PCB-80	400.00	6.36e+08	0.78	y	35:57	-	1.07
58	Tetra	PCB-55	400.00	5.70e+08	0.78	y	36:16	-	0.96
59	Tetra	PCB-56/60	800.00	1.08e+09	0.77	y	36:46	-	0.91
60	Tetra	PCB-79	400.00	5.68e+08	0.78	y	37:49	-	0.95
61	Tetra	PCB-78	400.00	5.53e+08	0.77	y	38:31	-	1.02
62	Tetra	PCB-81	400.00	6.17e+08	0.77	y	39:03	-	1.14
63	Tetra	PCB-77	400.00	5.82e+08	0.80	y	39:38	-	1.02
64	Penta	PCB-104	400.00	3.92e+08	1.60	y	32:41	-	1.03
65	Penta	PCB-96	400.00	3.47e+08	1.59	y	33:56	-	0.92
66	Penta	PCB-103	400.00	3.03e+08	1.60	y	34:28	-	0.80
67	Penta	PCB-100	400.00	3.29e+08	1.60	y	34:50	-	0.87
68	Penta	PCB-94	400.00	2.68e+08	1.60	y	35:18	-	0.91
69	Penta	PCB-95/98/102	1200.00	9.09e+08	1.60	y	35:47	-	1.04
70	Penta	PCB-93	400.00	2.47e+08	1.60	y	35:56	-	0.84
71	Penta	PCB-88/91	800.00	5.23e+08	1.56	y	36:12	-	0.89
72	Penta	PCB-121	400.00	4.29e+08	1.64	y	36:18	-	1.46
73	Penta	PCB-84/92	800.00	5.39e+08	1.60	y	37:08	-	0.87
74	Penta	PCB-89	400.00	2.55e+08	1.60	y	37:20	-	0.83
75	Penta	PCB-90/101	800.00	6.11e+08	1.59	y	37:30	-	0.99
76	Penta	PCB-113	400.00	3.59e+08	1.58	y	37:45	-	1.16
77	Penta	PCB-99	400.00	3.19e+08	1.61	y	37:50	-	1.03
78	Penta	PCB-119	400.00	4.01e+08	1.59	y	38:18	-	1.48
79	Penta	PCB-108/112	800.00	5.97e+08	1.60	y	38:28	-	1.10
80	Penta	PCB-83	400.00	3.51e+08	1.60	y	38:37	-	1.30
81	Penta	PCB-97	400.00	2.87e+08	1.60	y	38:48	-	1.06
82	Penta	PCB-86	400.00	2.42e+08	1.63	y	38:58	-	0.90
83	Penta	PCB-87/117/125	1200.00	1.11e+09	1.59	y	39:05	-	1.37
84	Penta	PCB-111/115	800.00	7.75e+08	1.58	y	39:15	-	1.43
85	Penta	PCB-85/116	800.00	6.10e+08	1.63	y	39:23	-	1.13
86	Penta	PCB-120	400.00	4.12e+08	1.59	y	39:36	-	1.52
87	Penta	PCB-110	400.00	3.74e+08	1.60	y	39:45	-	1.38
88	Penta	PCB-82	400.00	2.25e+08	1.60	y	40:23	-	0.60
89	Penta	PCB-124	400.00	4.01e+08	1.59	y	41:04	-	1.07
90	Penta	PCB-107/109	800.00	8.08e+08	1.60	y	41:12	-	1.08
91	Penta	PCB-123	400.00	3.78e+08	1.60	y	41:22	-	1.01
92	Penta	PCB-106/118	800.00	8.07e+08	1.60	y	41:34	-	1.01
93	Penta	PCB-114	400.00	4.81e+08	1.63	y	42:13	-	1.11
94	Penta	PCB-122	400.00	4.40e+08	1.59	y	42:21	-	1.02
95	Penta	PCB-105	400.00	4.86e+08	1.61	y	43:04	-	1.09
96	Penta	PCB-127	400.00	4.44e+08	1.65	y	43:24	-	0.94
97	Penta	PCB-126	400.00	4.53e+08	1.69	y	45:18	-	1.10
98	Hexa	PCB-155	400.00	3.12e+08	1.27	y	37:04	-	0.98
99	Hexa	PCB-150	400.00	2.99e+08	1.28	y	38:19	-	0.94
100	Hexa	PCB-152	400.00	2.95e+08	1.28	y	38:47	-	0.92
101	Hexa	PCB-145	400.00	2.95e+08	1.27	y	39:15	-	0.92
102	Hexa	PCB-136	400.00	2.81e+08	1.31	y	39:34	-	0.88

103	Hexa	PCB-148	400.00	2.24e+08	1.24 y	39:40	-	0.70
104	Hexa	PCB-154	400.00	2.37e+08	1.27 y	40:09	-	0.74
105	Hexa	PCB-151	400.00	2.17e+08	1.27 y	40:48	-	0.68
106	Hexa	PCB-135	400.00	2.24e+08	1.25 y	41:00	-	0.70
107	Hexa	PCB-144	400.00	2.17e+08	1.28 y	41:07	-	0.68
108	Hexa	PCB-147	400.00	2.25e+08	1.29 y	41:15	-	0.70
109	Hexa	PCB-139/149	800.00	4.68e+08	1.28 y	41:31	-	0.73
110	Hexa	PCB-140	400.00	2.12e+08	1.27 y	41:42	-	0.66
111	Hexa	PCB-134/143	800.00	6.17e+08	1.24 y	42:08	-	0.78
112	Hexa	PCB-133/142	800.00	6.26e+08	1.23 y	42:26	-	0.79
113	Hexa	PCB-131	400.00	2.95e+08	1.25 y	42:36	-	0.74

114	Hexa	PCB-146/165	800.00	7.73e+08	1.24 y	42:49	-	0.97
115	Hexa	PCB-132/161	800.00	7.41e+08	1.23 y	43:04	-	0.93
116	Hexa	PCB-153	400.00	3.95e+08	1.23 y	43:13	-	0.99
117	Hexa	PCB-168	400.00	4.52e+08	1.23 y	43:26	-	1.14
118	Hexa	PCB-141	400.00	3.03e+08	1.23 y	43:57	-	0.83
119	Hexa	PCB-137	400.00	3.53e+08	1.24 y	44:20	-	0.96
120	Hexa	PCB-130	400.00	2.61e+08	1.22 y	44:27	-	0.71
121	Hexa	PCB-138/163/164	1200.00	1.16e+09	1.23 y	44:49	-	1.05
122	Hexa	PCB-158/160	800.00	8.21e+08	1.23 y	45:04	-	1.11
123	Hexa	PCB-129	400.00	2.80e+08	1.23 y	45:18	-	0.76
124	Hexa	PCB-166	400.00	3.99e+08	1.23 y	45:46	-	0.94
125	Hexa	PCB-159	400.00	4.06e+08	1.26 y	46:06	-	0.96
126	Hexa	PCB-128/162	800.00	7.15e+08	1.23 y	46:23	-	0.85
127	Hexa	PCB-167	400.00	4.05e+08	1.22 y	46:46	-	0.88
128	Hexa	PCB-156	400.00	4.28e+08	1.23 y	48:03	-	0.98
129	Hexa	PCB-157	400.00	4.21e+08	1.24 y	48:20	-	0.91
130	Hexa	PCB-169	400.00	3.99e+08	1.23 y	50:23	-	0.94
131	Hepta	PCB-188	400.00	3.97e+08	1.04 y	42:51	-	1.17
132	Hepta	PCB-184	400.00	3.45e+08	1.05 y	43:18	-	1.02
133	Hepta	PCB-179	400.00	3.55e+08	1.05 y	44:05	-	1.05
134	Hepta	PCB-176	400.00	3.64e+08	1.05 y	44:33	-	1.07
135	Hepta	PCB-186	400.00	3.55e+08	1.05 y	45:10	-	1.05
136	Hepta	PCB-178	400.00	2.55e+08	1.05 y	45:39	-	0.75
137	Hepta	PCB-175	400.00	2.66e+08	1.05 y	46:00	-	0.78
138	Hepta	PCB-182/187	800.00	5.78e+08	1.06 y	46:10	-	0.85
139	Hepta	PCB-183	400.00	2.87e+08	1.05 y	46:29	-	0.85
140	Hepta	PCB-185	400.00	2.56e+08	1.05 y	47:09	-	1.10
141	Hepta	PCB-174	400.00	2.74e+08	1.04 y	47:30	-	1.18
142	Hepta	PCB-181	400.00	2.51e+08	1.05 y	47:37	-	1.08
143	Hepta	PCB-177	400.00	2.40e+08	1.05 y	47:47	-	1.03
144	Hepta	PCB-171	400.00	2.57e+08	1.05 y	48:05	-	1.10
145	Hepta	PCB-173	400.00	2.26e+08	1.05 y	48:30	-	0.97
146	Hepta	PCB-172	400.00	2.44e+08	1.05 y	48:57	-	1.05
147	Hepta	PCB-192	400.00	3.09e+08	1.05 y	49:08	-	1.33
148	Hepta	PCB-180	400.00	2.75e+08	1.05 y	49:20	-	1.18
149	Hepta	PCB-193	400.00	3.25e+08	1.06 y	49:31	-	1.40
150	Hepta	PCB-191	400.00	3.32e+08	1.05 y	49:46	-	1.43
151	Hepta	PCB-170	400.00	2.30e+08	1.05 y	50:45	-	1.23
152	Hepta	PCB-190	400.00	3.17e+08	1.05 y	50:55	-	1.70
153	Hepta	PCB-189	400.00	3.22e+08	1.05 y	52:11	-	1.30
154	Octa	PCB-202	400.00	2.47e+08	0.91 y	48:16	-	0.85
155	Octa	PCB-201	400.00	2.67e+08	0.90 y	48:45	-	0.92
156	Octa	PCB-204	400.00	2.45e+08	0.91 y	48:54	-	0.84
157	Octa	PCB-197	400.00	2.62e+08	0.91 y	49:13	-	0.90
158	Octa	PCB-200	400.00	2.51e+08	0.91 y	50:03	-	0.87
159	Octa	PCB-198	400.00	1.73e+08	0.90 y	51:19	-	0.60
160	Octa	PCB-199	400.00	1.84e+08	0.91 y	51:25	-	0.63
161	Octa	PCB-196/203	800.00	3.87e+08	0.90 y	51:41	-	0.67
162	Octa	PCB-195	400.00	2.55e+08	0.91 y	52:49	-	1.04
163	Octa	PCB-194	400.00	2.51e+08	0.92 y	53:40	-	1.02



164	Octa	PCB-205	400.00	2.86e+08	0.92 y	53:57	-	1.17
165	Nona	PCB-208	400.00	2.69e+08	1.32 y	52:57	-	0.78
166	Nona	PCB-207	400.00	2.66e+08	1.33 y	53:15	-	0.78
167	Nona	PCB-206	400.00	1.66e+08	1.33 y	55:21	-	0.84
168	Deca	PCB-209	400.00	1.83e+08	1.19 y	56:38	-	0.99
169	Tot 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

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. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.96	2.66-3.60	y	52.3	37.5-62.5	PCB-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									

Integrations  
by  
Analyst: DMS  
Reviewed  
by  
Analyst: \_\_\_\_\_  
Date: 6/23/14  
Date: \_\_\_\_\_

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_



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
13C-PCB-1	1.19e+08	3.24 y	0.89	16:14	0.625	0.622-0.628		98.9	98.9
13C-PCB-3	1.25e+08	3.32 y	0.93	18:49	0.725	0.721-0.729		100	100
13C-PCB-4	7.38e+07	1.60 y	0.55	20:09	0.776	0.772-0.780		99.9	99.9
13C-PCB-9	1.11e+08	1.59 y	0.83	21:55	0.844	0.840-0.848		100.0	100.0
13C-PCB-11	1.25e+08	1.58 y	0.94	25:16	0.973	0.968-0.978		98.6	98.6
13C-PCB-19	7.19e+07	1.04 y	0.53	24:16	0.934	0.929-0.939		100	100
13C-PCB-28	1.07e+08	1.05 y	0.89	29:07	1.004	0.999-1.009		96.1	96.1
13C-PCB-32	1.09e+08	1.07 y	0.81	27:10	1.046	1.041-1.051		99.3	99.3
13C-PCB-37	9.94e+07	1.06 y	0.83	32:59	1.137	1.131-1.143		95.3	95.3
13C-PCB-47	8.11e+07	0.81 y	0.74	32:01	0.871	0.867-0.875		98.7	98.7
13C-PCB-52	7.70e+07	0.79 y	0.71	31:30	0.857	0.853-0.861		98.5	98.5
13C-PCB-54	9.29e+07	0.81 y	0.85	28:00	0.762	0.758-0.766		99.0	99.0
13C-PCB-70	1.02e+08	0.79 y	0.94	35:31	0.966	0.961-0.971		98.1	98.1
13C-PCB-77	9.74e+07	0.81 y	0.89	39:38	1.078	1.073-1.083		98.7	98.7
13C-PCB-80	1.05e+08	0.80 y	0.96	35:56	0.977	0.972-0.982		99.0	99.0
13C-PCB-81	9.10e+07	0.80 y	0.84	39:03	1.062	1.057-1.067		98.4	98.4
13C-PCB-95	5.18e+07	1.63 y	0.74	35:49	0.913	0.908-0.918		98.4	98.4
13C-PCB-97	4.86e+07	1.60 y	0.69	38:48	0.989	0.984-0.994		99.7	99.7
13C-PCB-101	5.42e+07	1.60 y	0.79	37:30	0.956	0.951-0.961		97.6	97.6
13C-PCB-104	6.97e+07	1.58 y	1.00	32:40	0.833	0.829-0.837		99.0	99.0
13C-PCB-105	8.01e+07	1.61 y	1.24	43:03	0.929	0.924-0.934		96.7	96.7
13C-PCB-114	7.88e+07	1.61 y	1.21	42:12	0.910	0.905-0.915		97.6	97.6
13C-PCB-118	7.31e+07	1.59 y	0.98	41:32	1.059	1.054-1.064		105	105
13C-PCB-123	7.08e+07	1.58 y	0.95	41:21	1.054	1.049-1.059		105	105
13C-PCB-126	7.48e+07	1.61 y	1.16	45:18	0.977	0.972-0.982		96.2	96.2
13C-PCB-127	8.64e+07	1.59 y	1.34	43:23	0.936	0.931-0.941		96.3	96.3
13C-PCB-138	6.82e+07	1.26 y	1.04	44:48	0.966	0.961-0.971		97.7	97.7
13C-PCB-141	7.08e+07	1.28 y	1.07	43:57	0.948	0.943-0.953		98.8	98.8
13C-PCB-153	7.34e+07	1.25 y	1.11	43:13	0.932	0.927-0.937		98.6	98.6
13C-PCB-155	5.85e+07	1.27 y	0.83	37:02	0.944	0.939-0.949		99.4	99.4
13C-PCB-156	8.09e+07	1.27 y	1.24	48:03	1.037	1.032-1.042		97.2	97.2
13C-PCB-157	8.55e+07	1.28 y	1.31	48:19	1.042	1.037-1.047		97.5	97.5
13C-PCB-159	7.80e+07	1.30 y	1.20	46:05	0.994	0.989-0.999		97.3	97.3
13C-PCB-167	8.57e+07	1.25 y	1.32	46:45	1.009	1.004-1.014		97.0	97.0
13C-PCB-169	7.92e+07	1.27 y	1.22	50:24	1.087	1.082-1.092		97.5	97.5
13C-PCB-170	3.58e+07	0.46 y	0.54	50:45	1.095	1.089-1.101		99.9	99.9
13C-PCB-180	4.49e+07	0.47 y	0.67	49:19	1.064	1.059-1.069		99.6	99.6
13C-PCB-188	6.18e+07	0.46 y	0.94	42:51	0.924	0.919-0.929		98.8	98.8
13C-PCB-189	4.90e+07	0.46 y	0.72	52:11	1.126	1.120-1.132		102	102
13C-PCB-194	4.68e+07	0.91 y	0.81	53:40	0.995	0.990-1.000		99.2	99.2
13C-PCB-202	5.62e+07	0.92 y	0.83	48:16	1.041	1.036-1.046		101	101
13C-PCB-206	4.05e+07	0.78 y	0.66	55:20	1.026	1.021-1.031		106	106
13C-PCB-208	6.67e+07	0.78 y	1.12	52:56	0.981	0.976-0.986		102	102
13C-PCB-209	3.70e+07	1.21 y	0.61	56:37	1.049	1.044-1.054		103	103

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.21e+08	0.80 y	1.01	37:49	1.028	1.023-1.033		109	109
13C-PCB-178	4.58e+07	0.46 y	0.63	45:38	0.984	0.979-0.989		109	109

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.21e+08	0.80 y	1.20	37:49	0.968	0.963-0.973		110	110
13C-PCB-178	4.58e+07	0.46 y	0.94	45:38	0.925	0.920-0.930		109	109

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.35e+08	1.56 y	1.00	25:58	100
13C-PCB-31	1.25e+08	1.07 y	1.00	29:00	100
13C-PCB-60	1.10e+08	0.80 y	1.00	36:46	100
13C-PCB-111	7.08e+07	1.59 y	1.00	39:14	100
13C-PCB-128	6.69e+07	1.27 y	1.00	46:21	100
13C-PCB-205	5.82e+07	0.91 y	1.00	53:57	100

Analyst: DMS

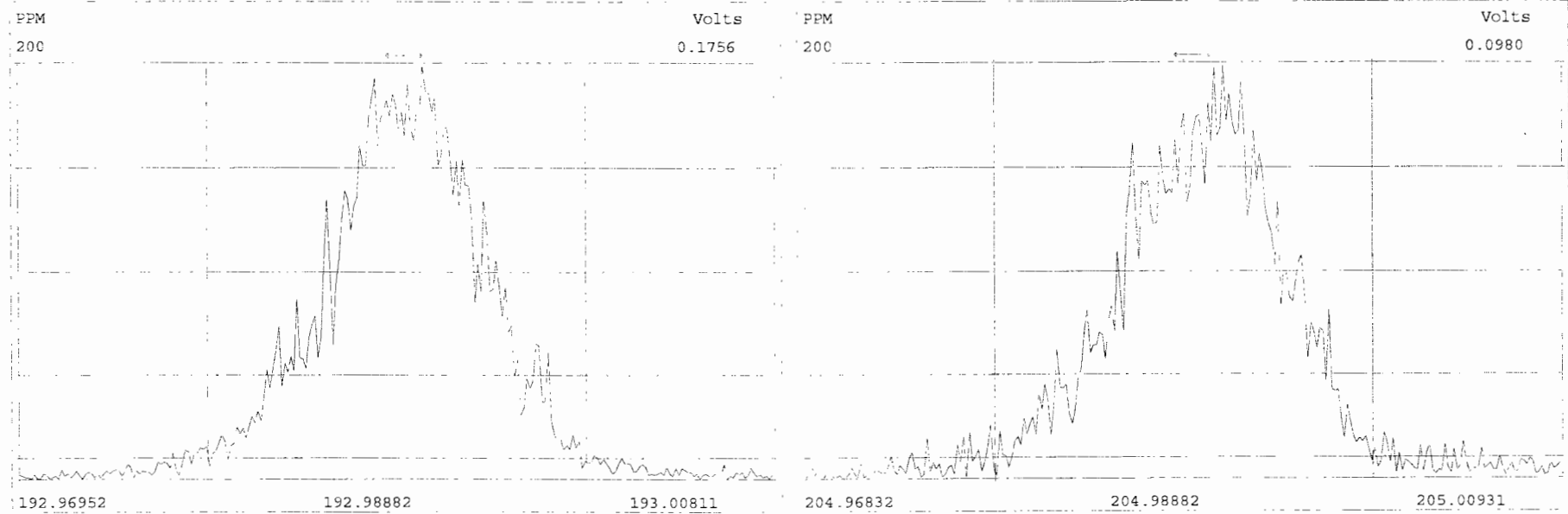
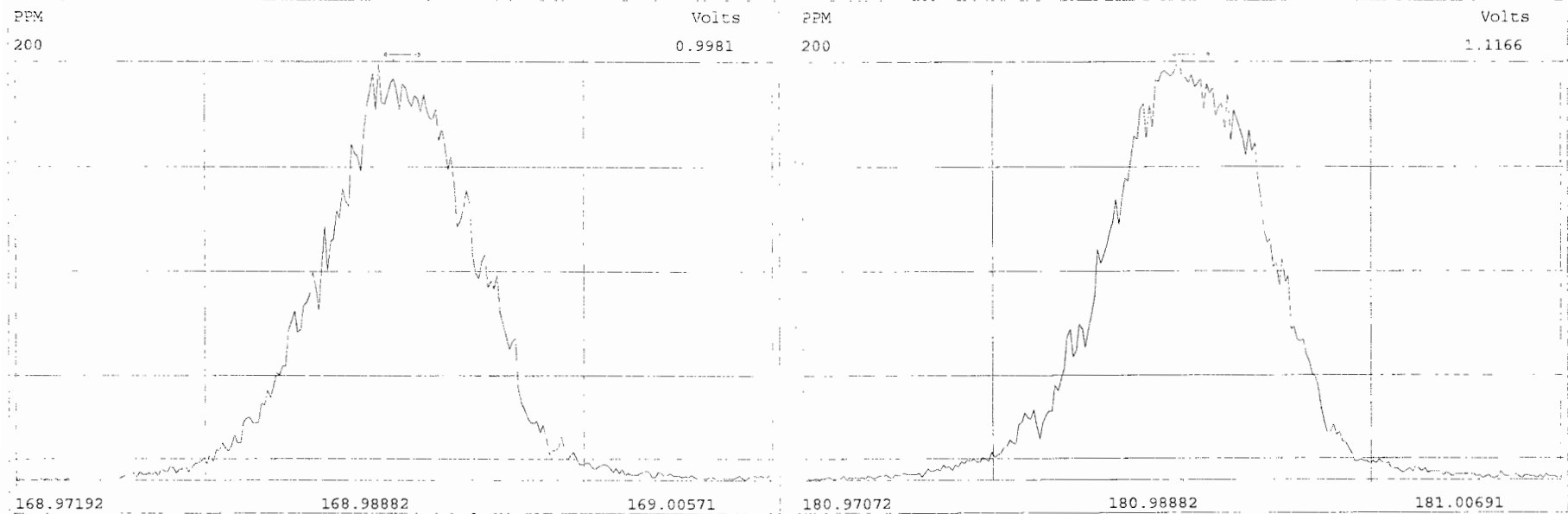
Date: 6/23/14

Vista Analytical Laboratory - Injection Log Run file: 140620E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140620E1	1	ST140620E1-1	DMS	20-JUN-14	09:31:44	NA	NA
140620E1	2	ST140620E1-2	DMS	20-JUN-14	10:35:42	NA	NA
140620E1	3	ST140620E1-3	DMS	20-JUN-14	11:39:47	NA	NA
140620E1	4	ST140620E1-4	DMS	20-JUN-14	12:43:46	ST140620E1-4	ST140620E1-8
140620E1	5	ST140620E1-5	DMS	20-JUN-14	13:47:50	NA	NA
140620E1	6	ST140620E1-6	DMS	20-JUN-14	14:51:49	NA	NA
140620E1	8	ST140620E1-7	DMS	20-JUN-14	15:57:15	NA	NA
140620E1	9	B4F0047-BS1	DMS	20-JUN-14	17:01:12	ST140620E1-4	ST140620E1-8
140620E1	10	SOLVENT BLANK	DMS	20-JUN-14	18:05:10	NA	NA
140620E1	11	B4F0047-BLK1	DMS	20-JUN-14	19:09:06	ST140620E1-4	ST140620E1-8
140620E1	12	1400406-01	DMS	20-JUN-14	20:13:09	ST140620E1-4	ST140620E1-8
140620E1	13	1400434-01	DMS	20-JUN-14	21:17:10	ST140620E1-4	NA
140620E1	14	1400434-02	DMS	20-JUN-14	22:21:13	ST140620E1-4	NA
140620E1	15	1400434-03	DMS	20-JUN-14	23:25:09	ST140620E1-4	NA
140620E1	16	SOLVENT BLANK	DMS	21-JUN-14	00:29:07	ST140620E1-4	NA
140620E1	17	ST140620E1-8	DMS	21-JUN-14	01:33:10	ST140620E1-4	ST140620E1-8

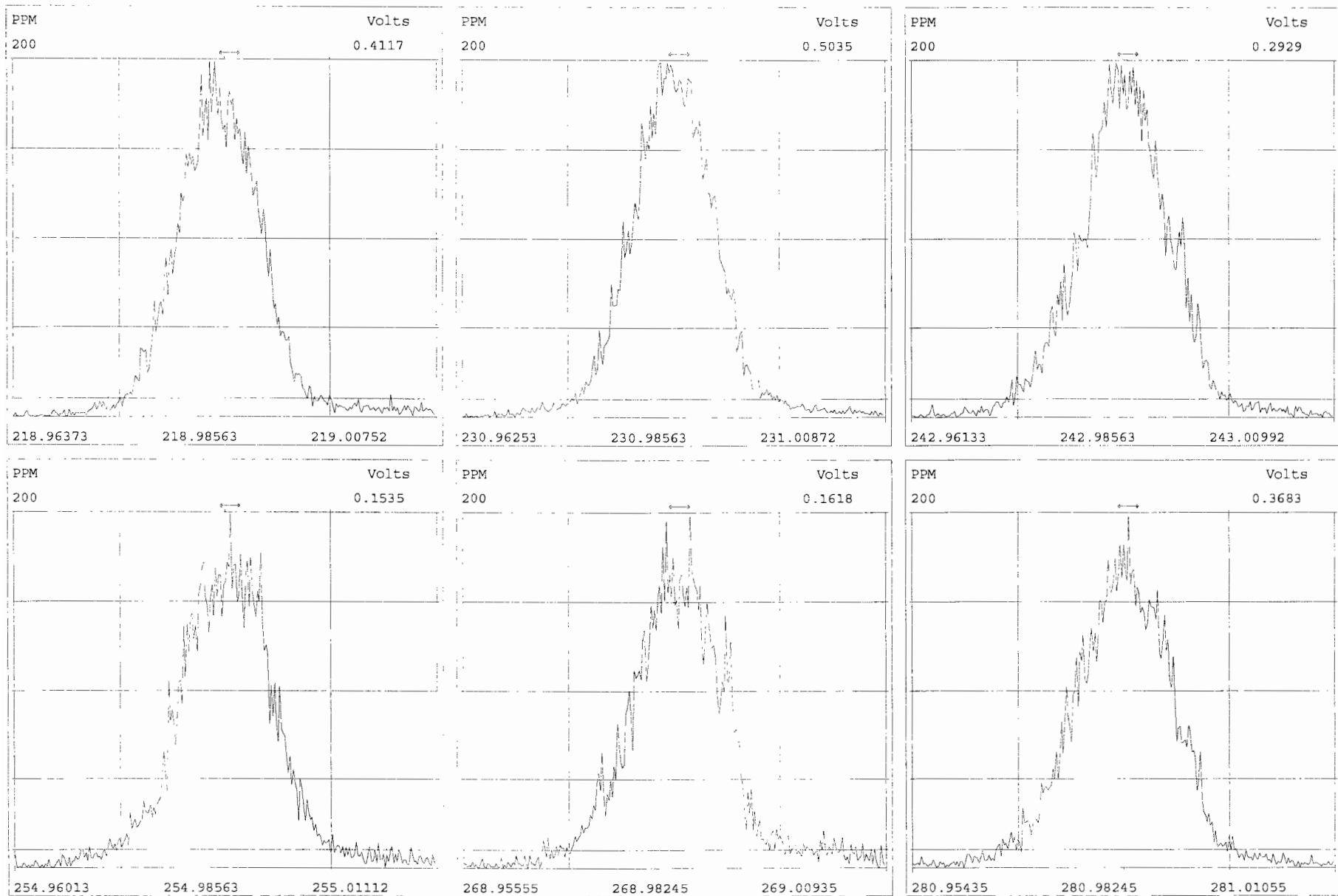
Peak Locate Examination:20-JUN-2014:09:29 File:140620E1

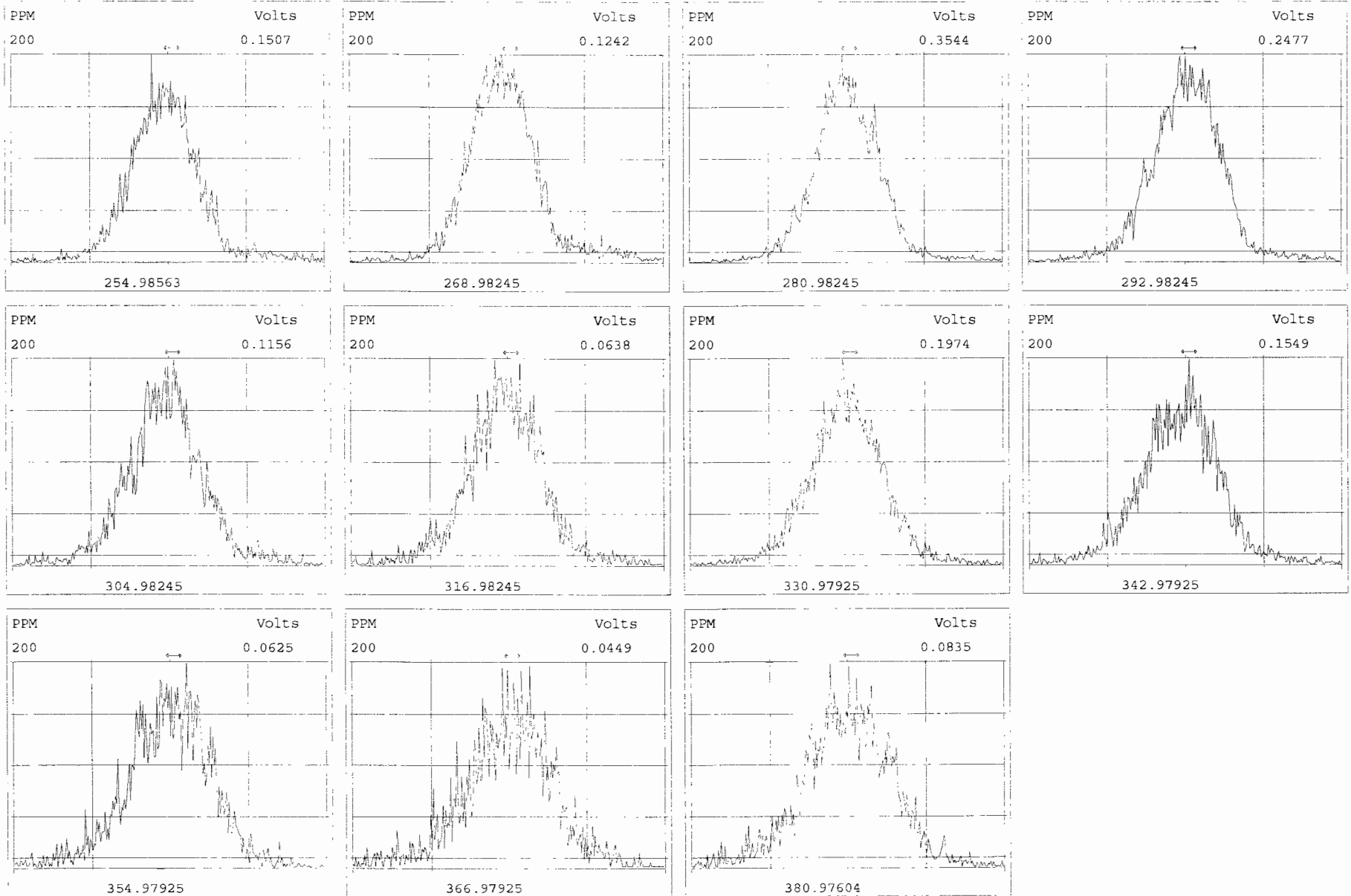
Experiment:PCB\_ZB1 Function:1 Reference:PFK



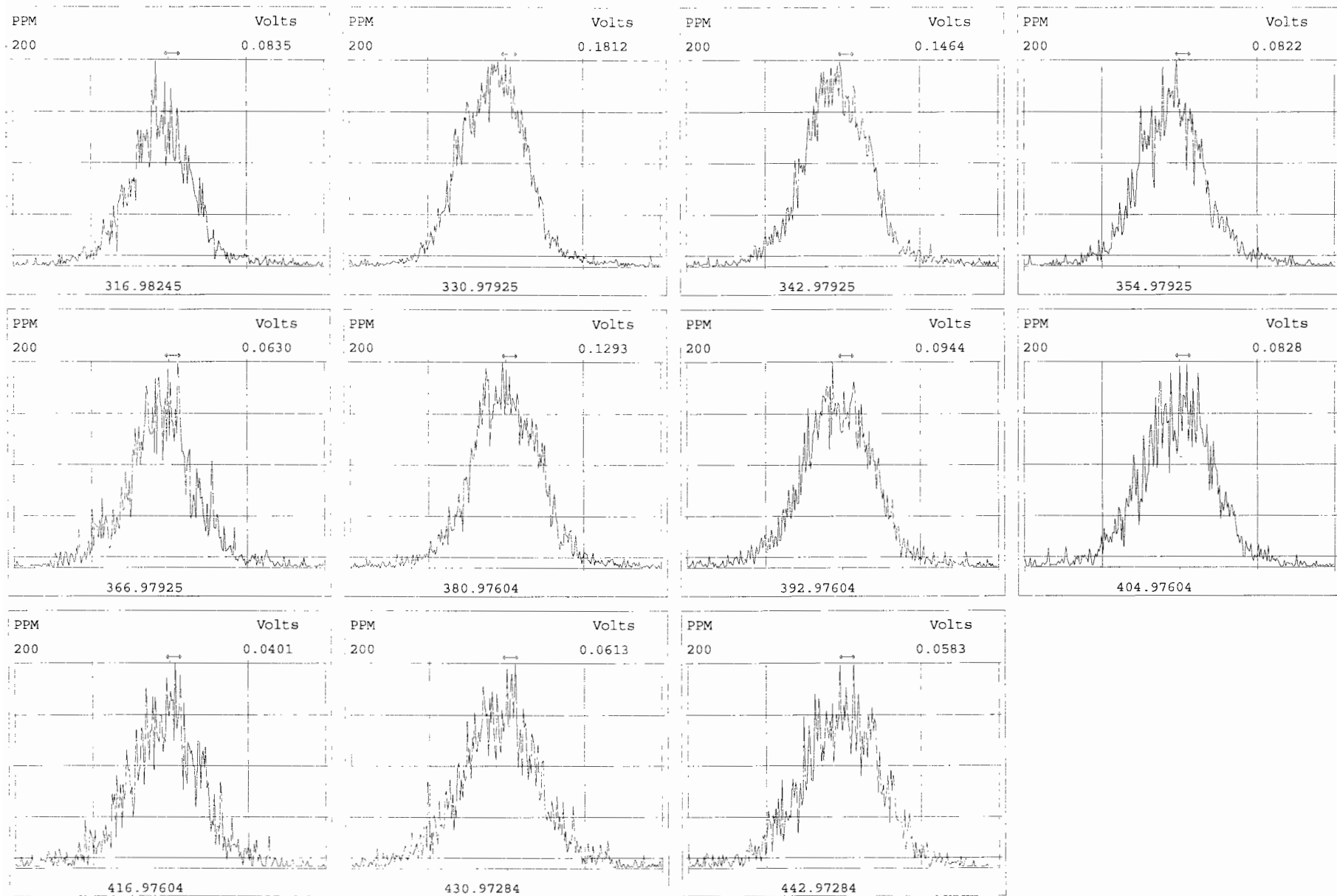
Peak Locate Examination:20-JUN-2014:09:30 File:140620E1

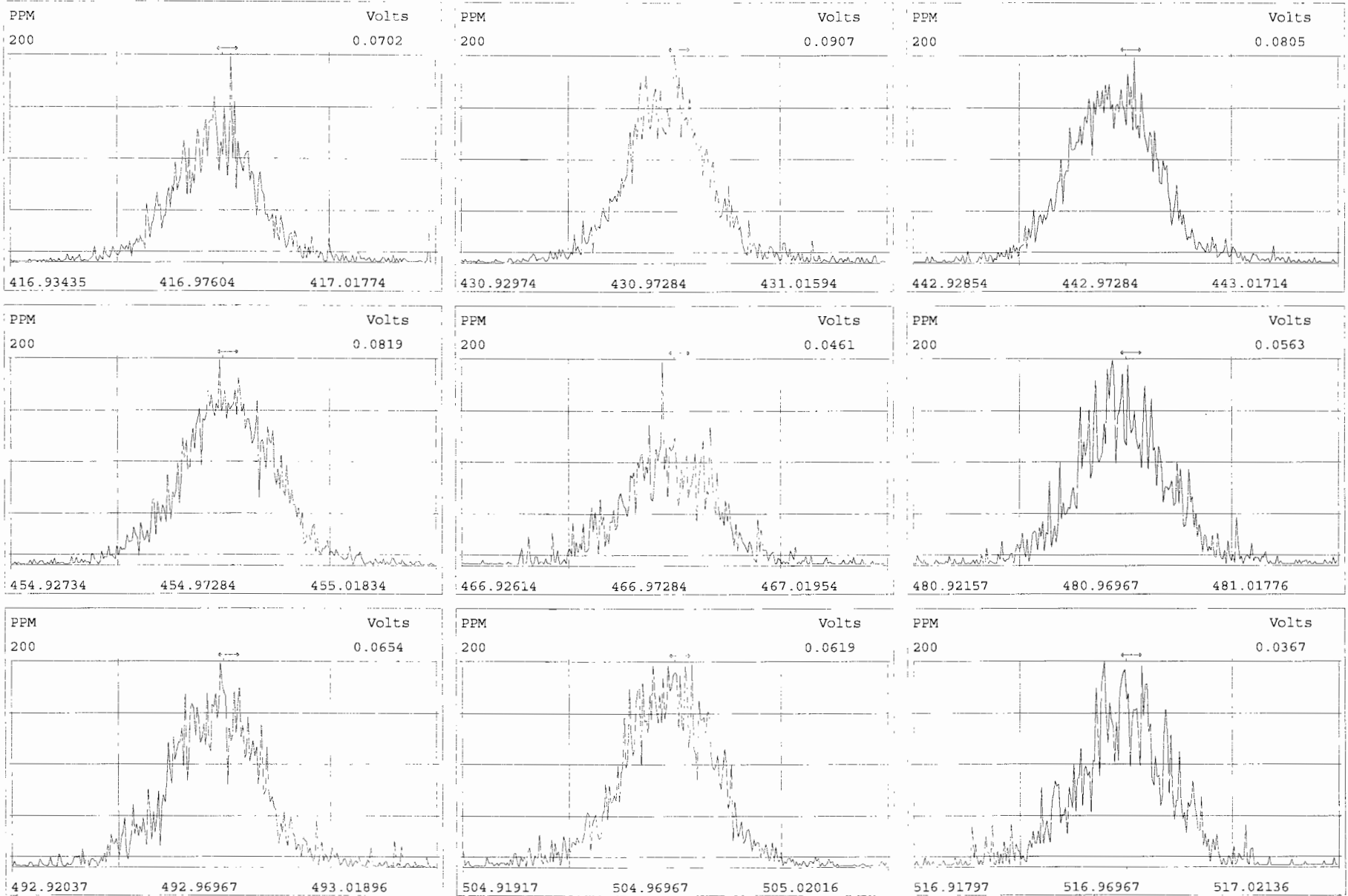
Experiment:PCB\_ZB1 Function:2 Reference:PFK



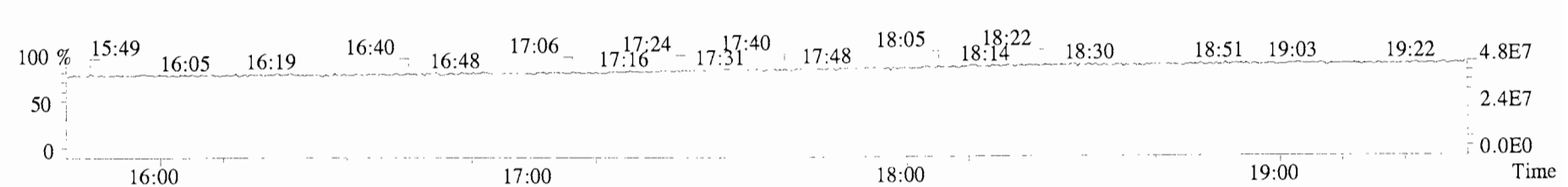
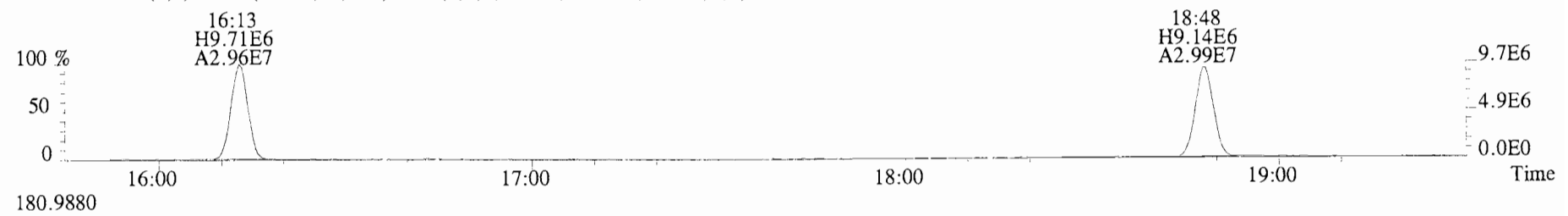
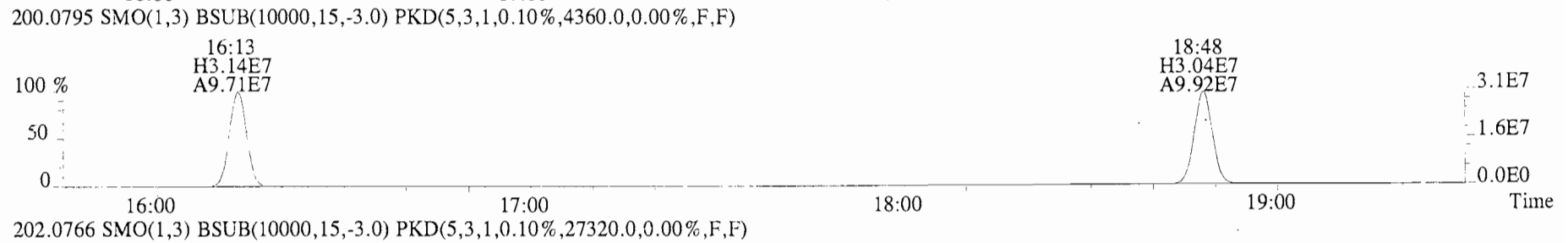
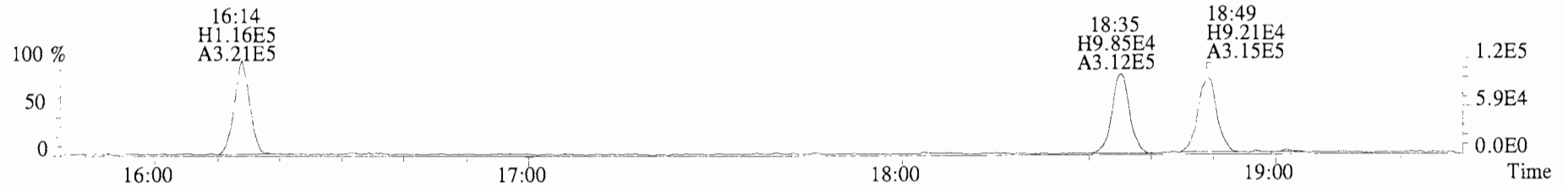




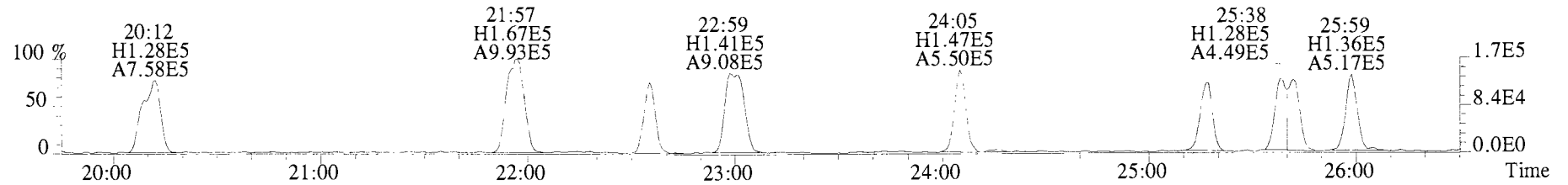




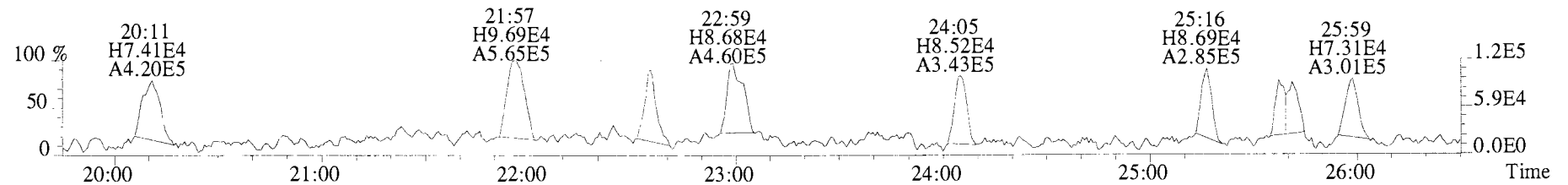
File:140620E1 #1-728 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
188.0393 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2344.0,0.00%,F,F)



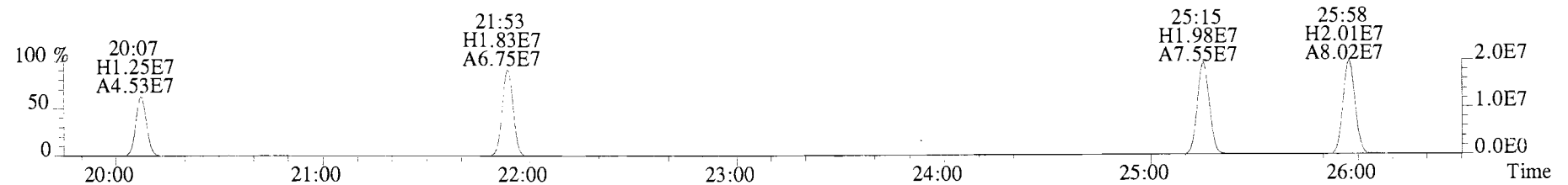
File:140620E1 #1-750 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3240.0,0.00%,F,F)



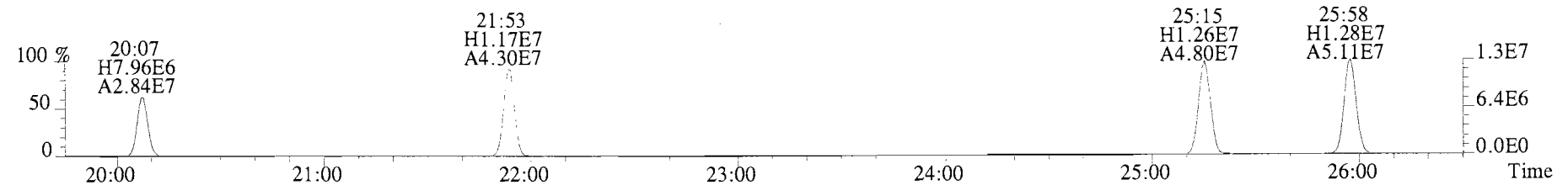
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,22160.0,0.00%,F,F)



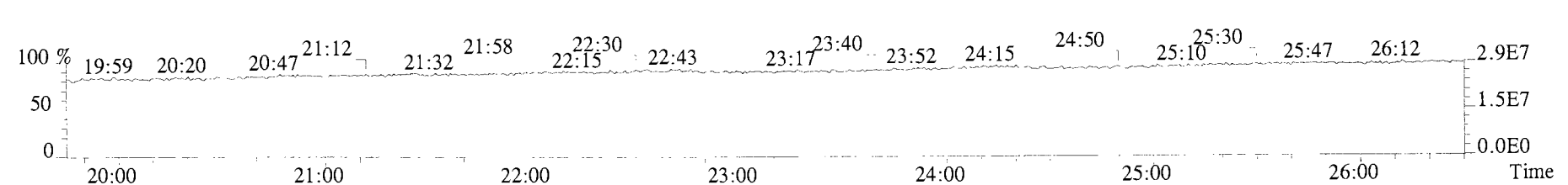
234.0406 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5500.0,0.00%,F,F)



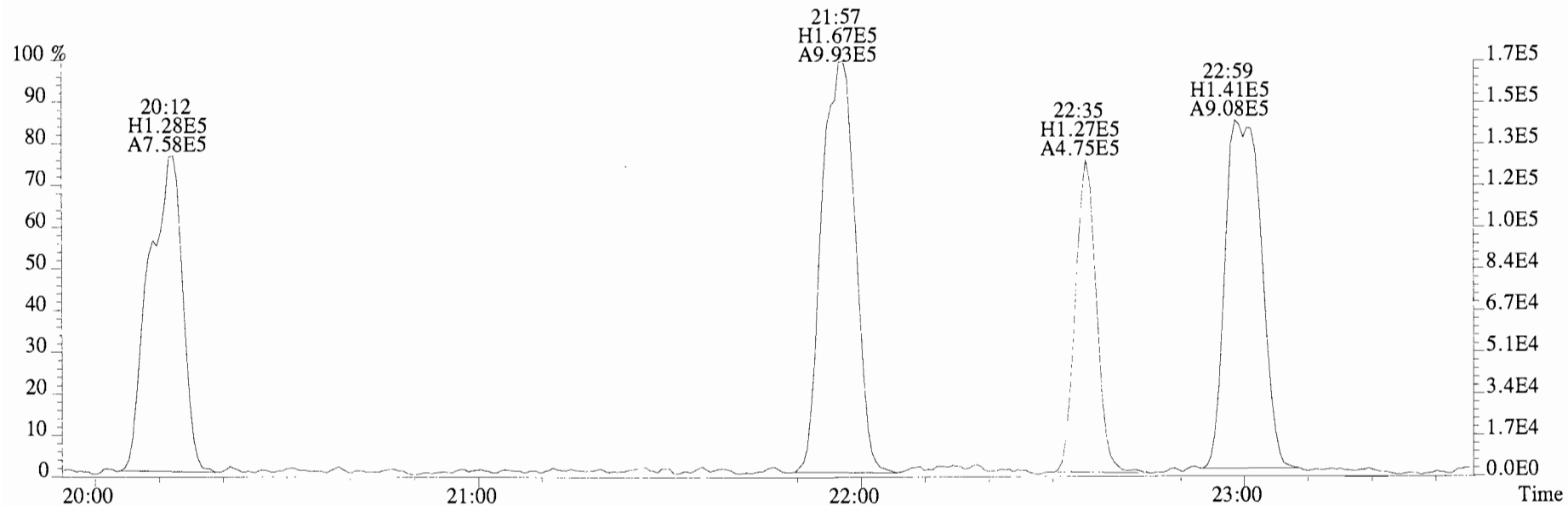
236.0376 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4556.0,0.00%,F,F)



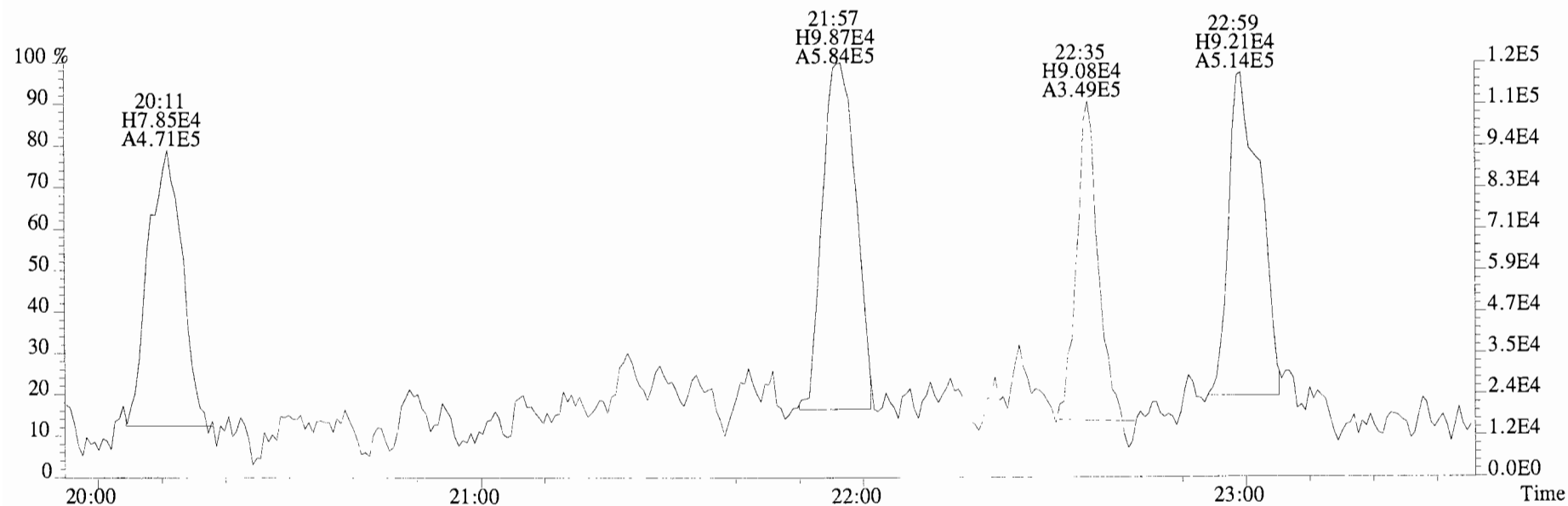
239.9856 F:2



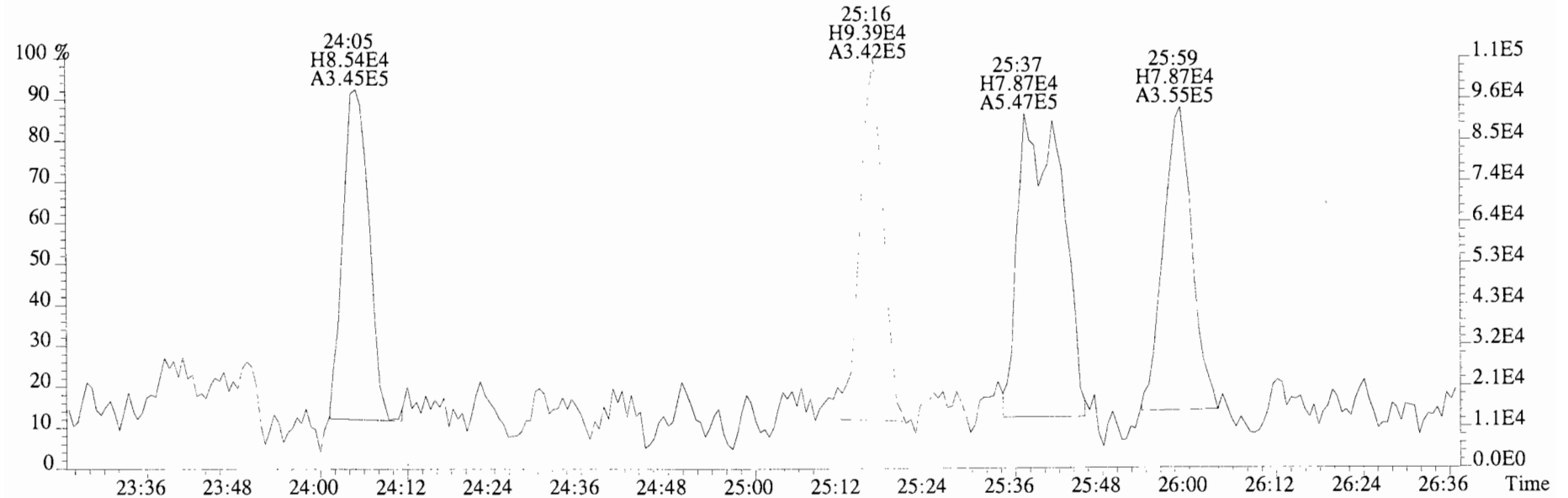
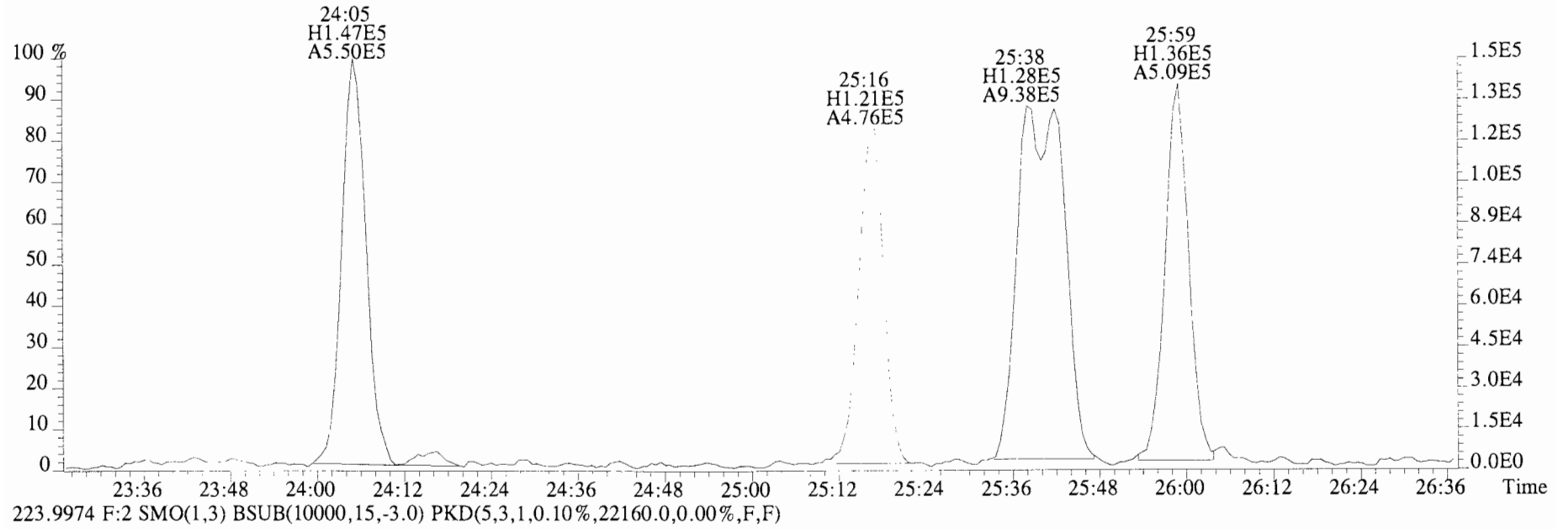
File:140620E1 #1-750 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3240.0,0.00%,F,F)



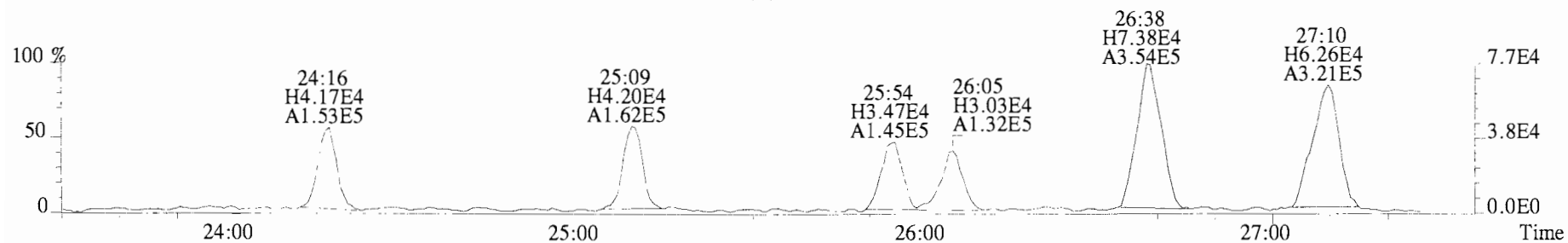
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,22160.0,0.00%,F,F)



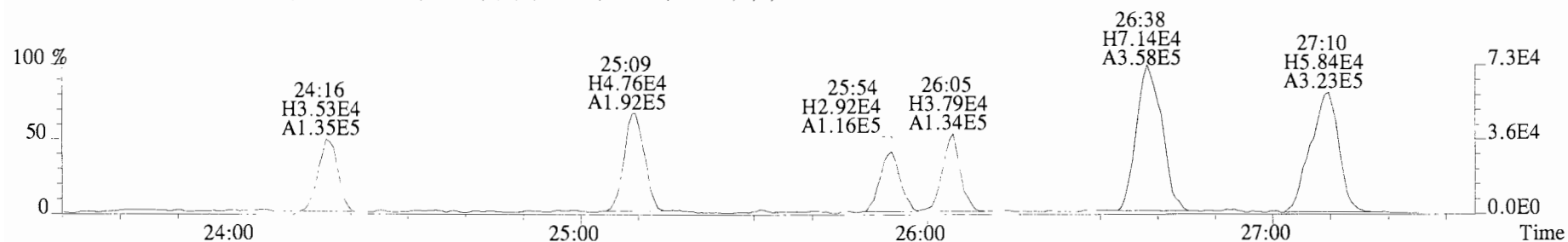
File:140620E1 #1-750 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3240.0,0.00%,F,F)



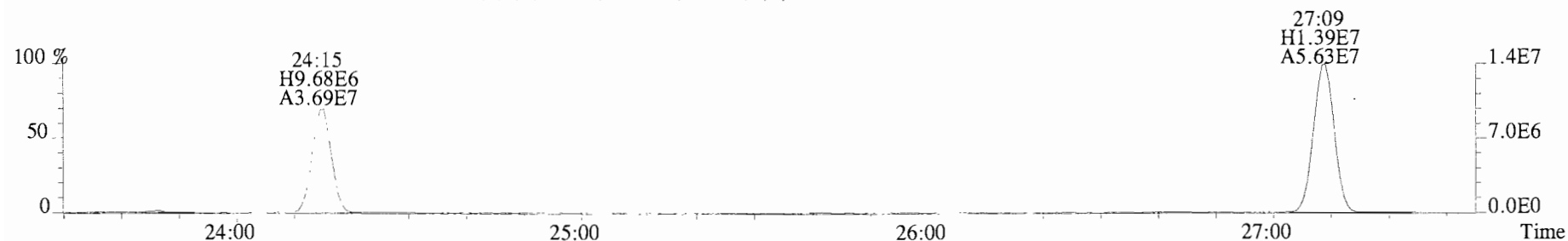
File:140620E1 #1-750 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZBI  
255.9613 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2680.0,0.00%,F,F)



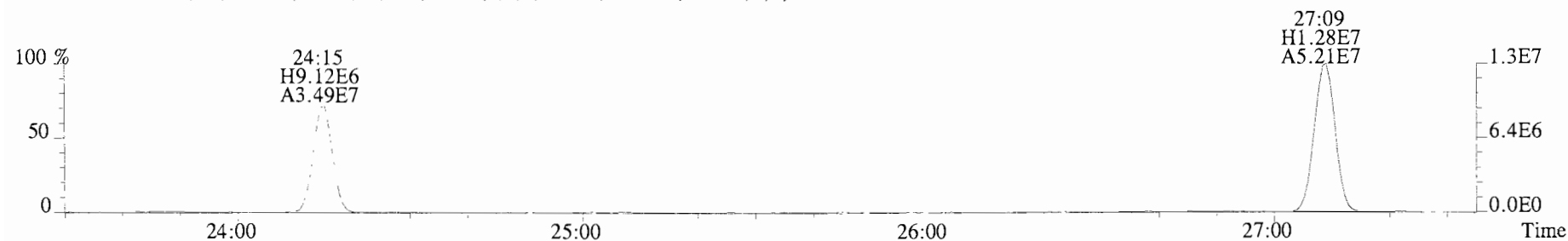
257.9584 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



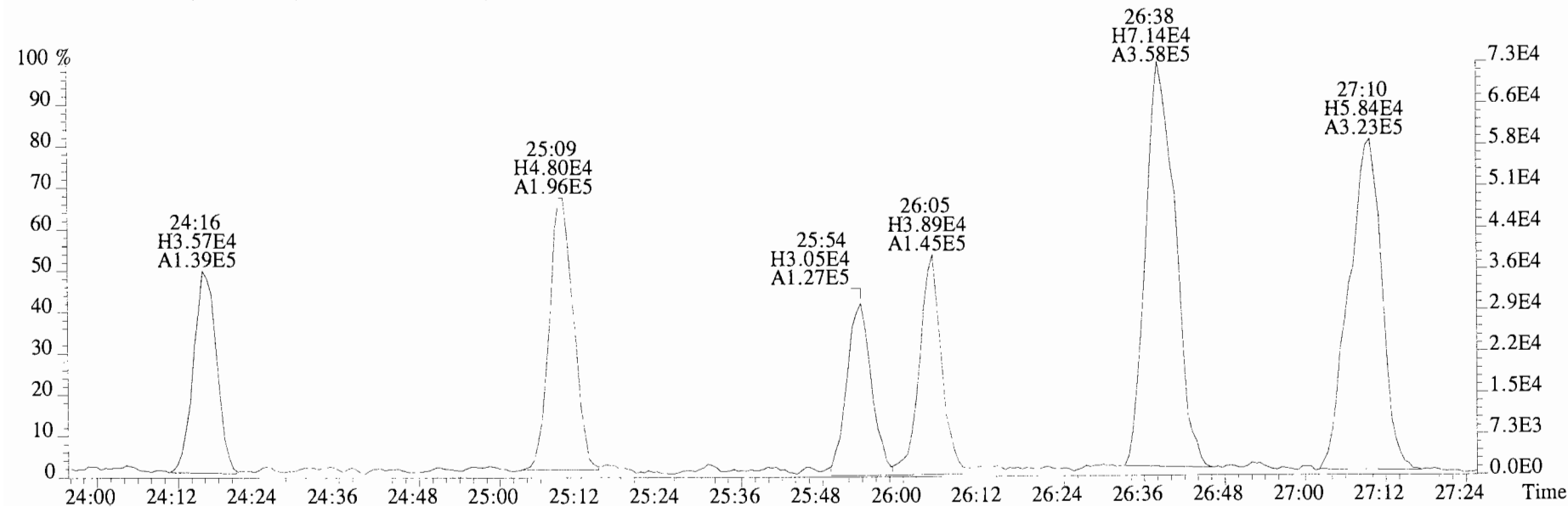
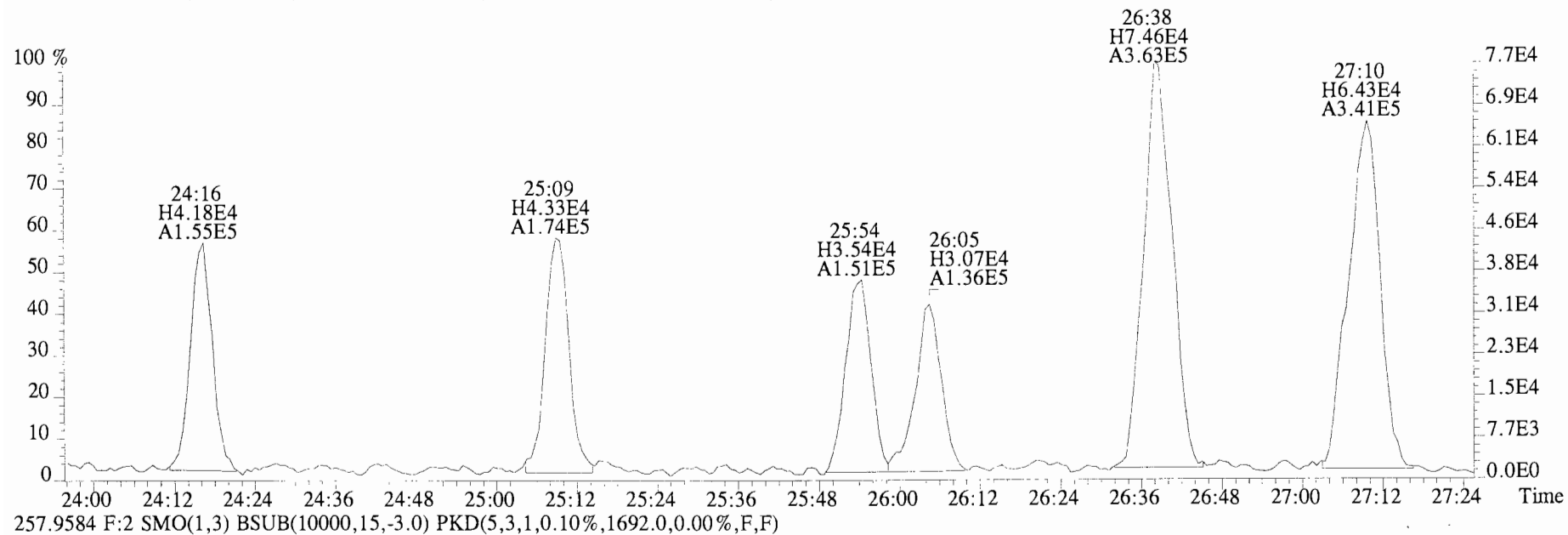
268.0016 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,42724.0,0.00%,F,F)



269.9986 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,23520.0,0.00%,F,F)

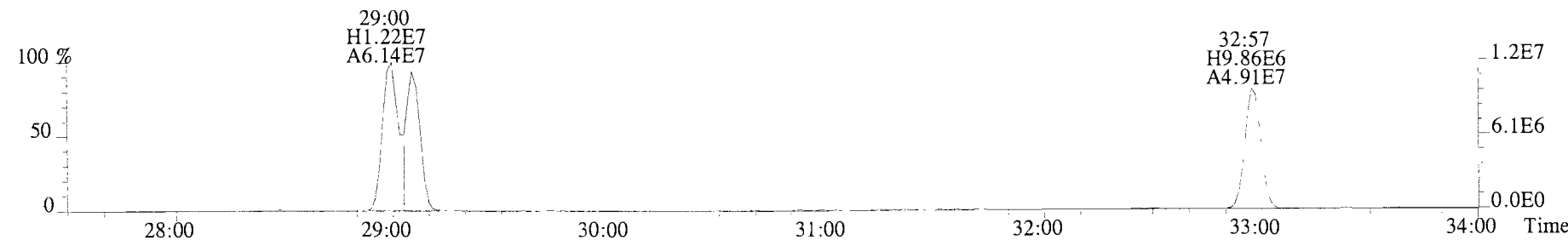
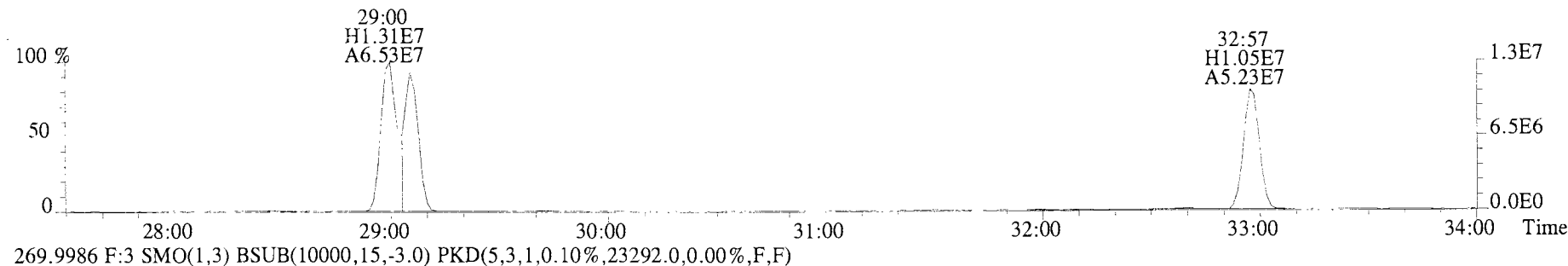
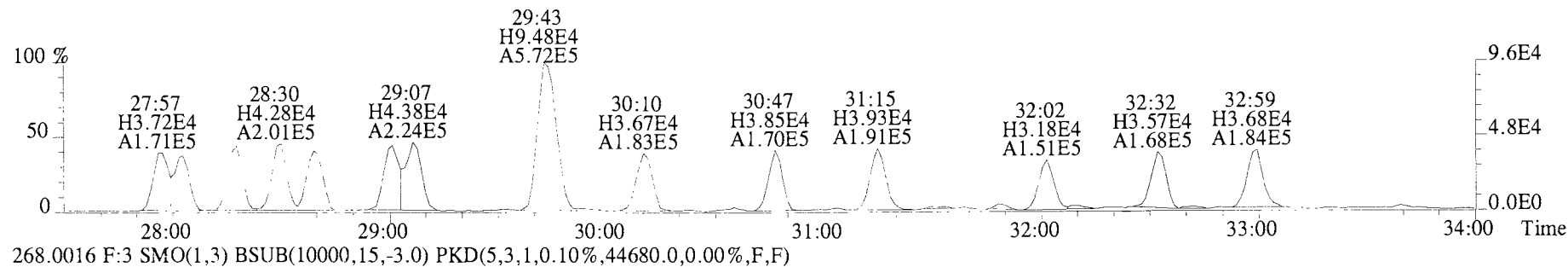
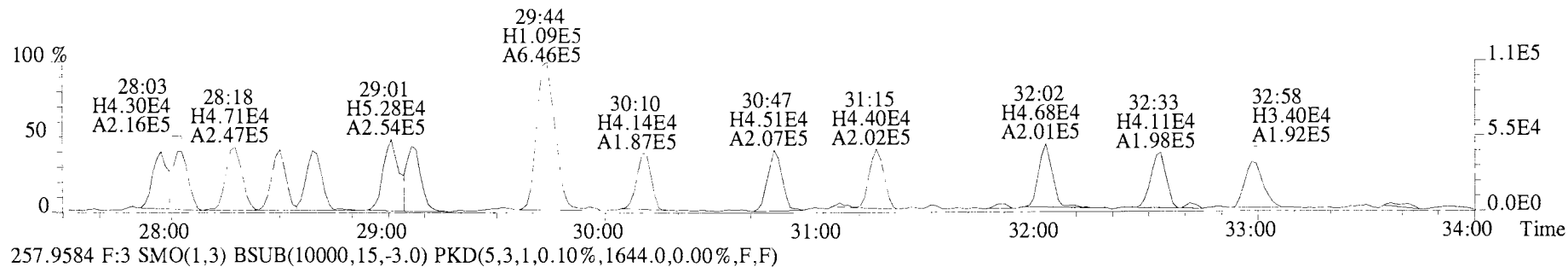


File:140620E1 #1-750 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
255.9613 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2680.0,0.00%,F,F)

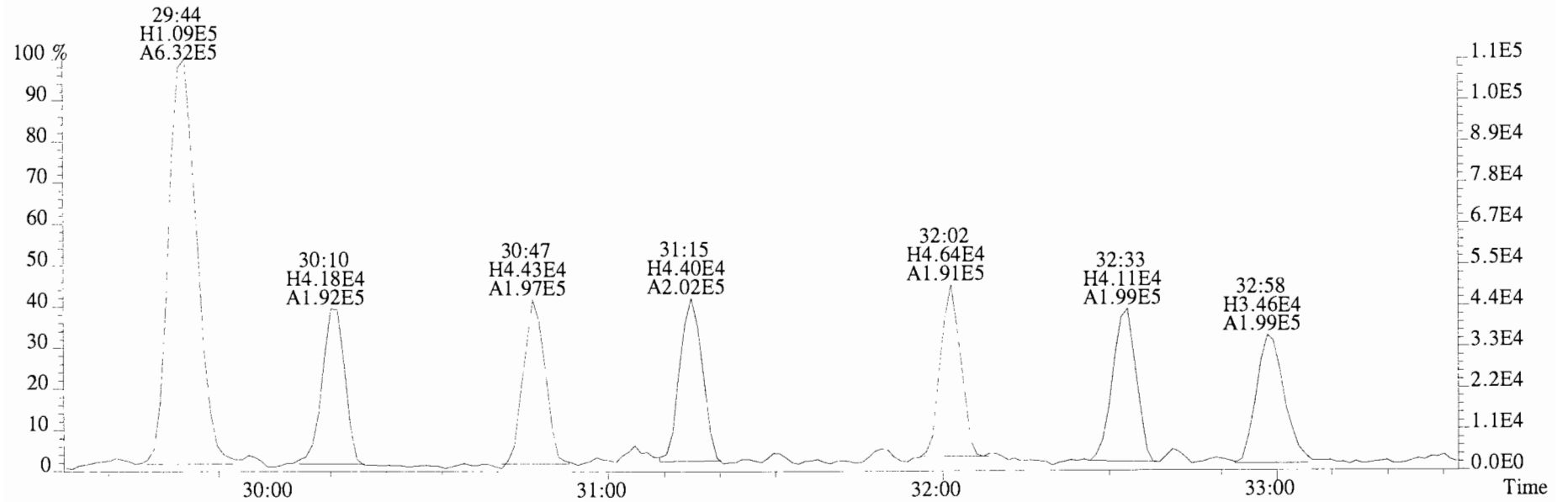




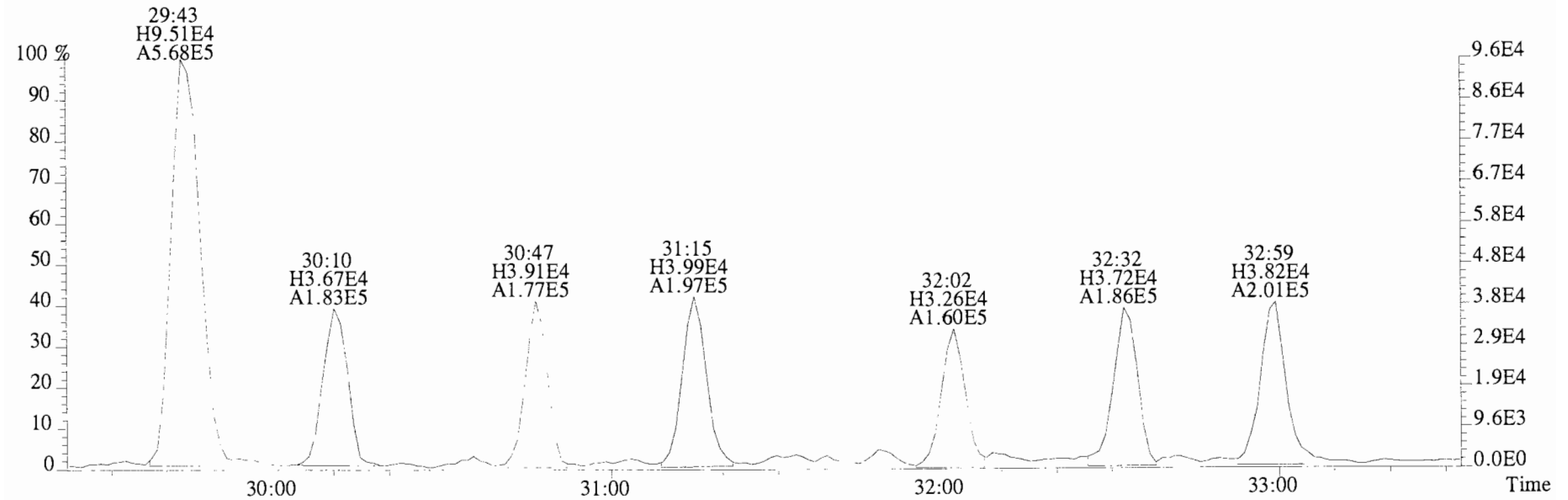
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2780.0,0.00%,F,F)



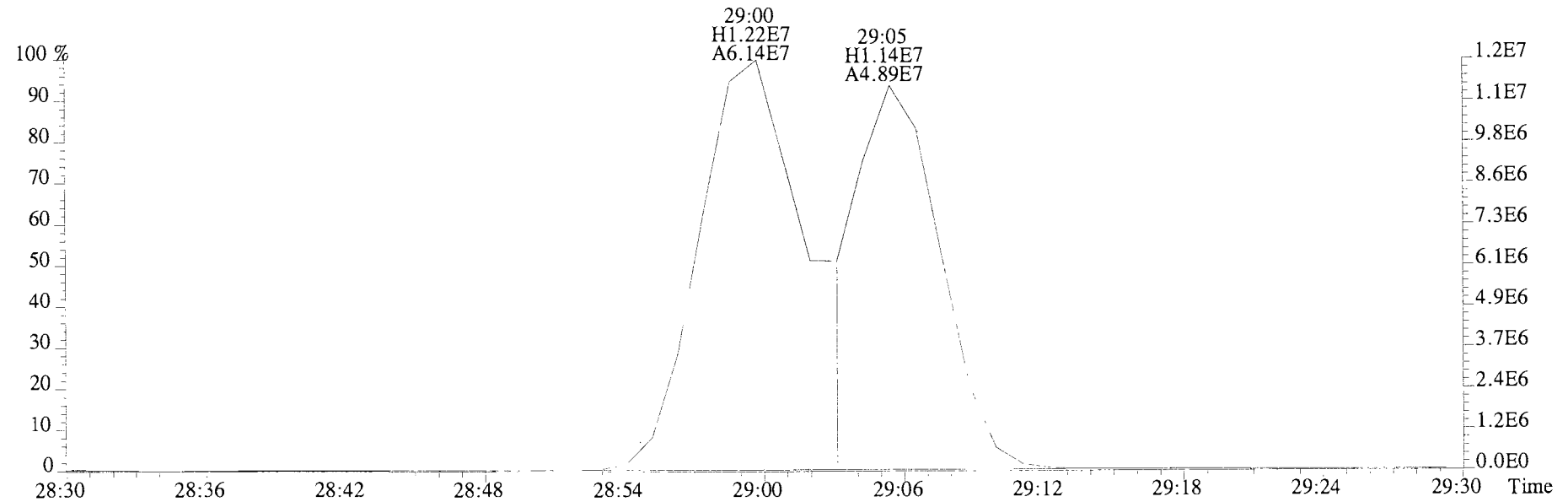
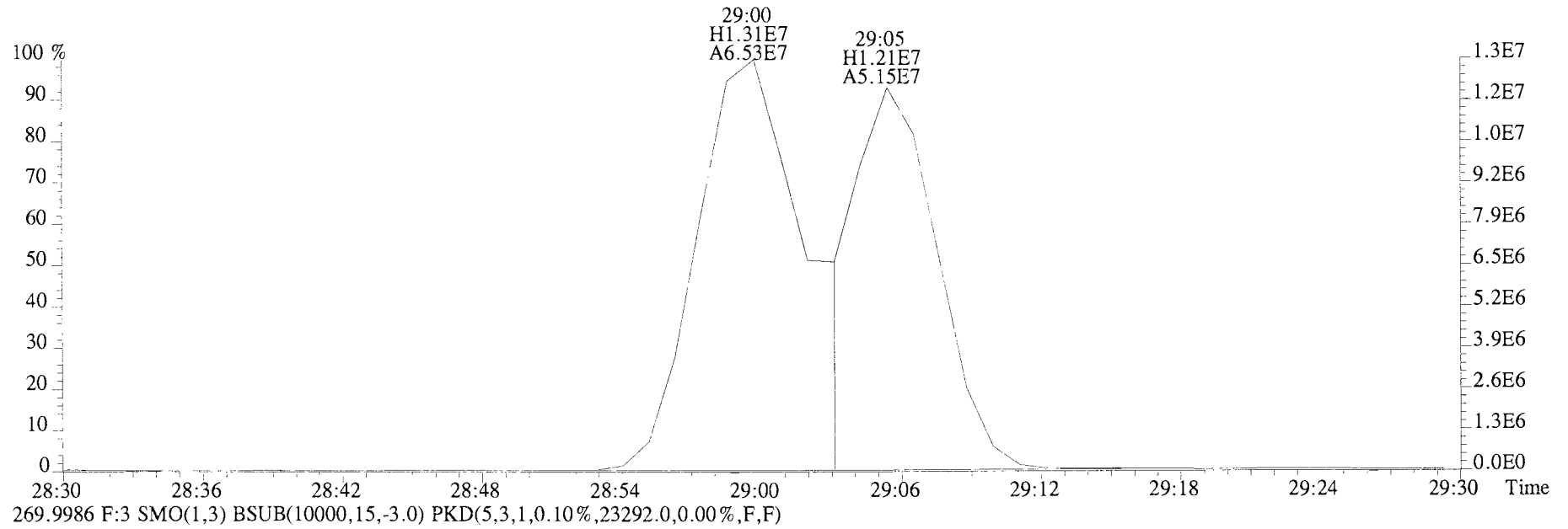
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2780.0,0.00%,F,F)



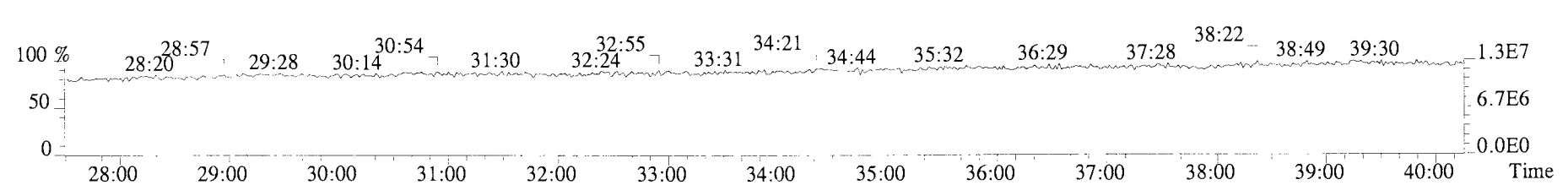
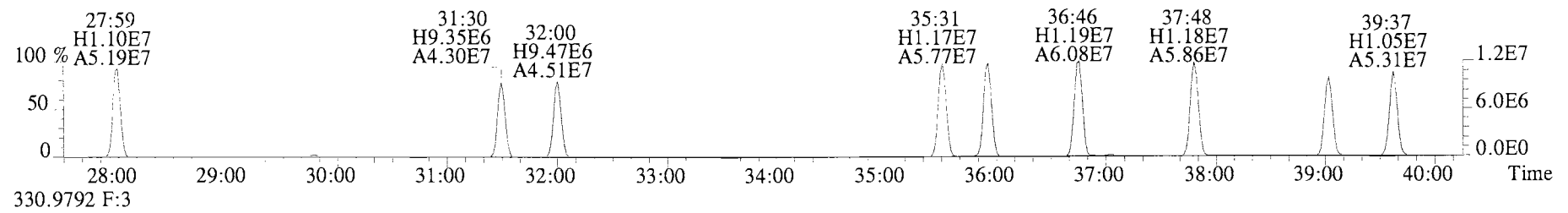
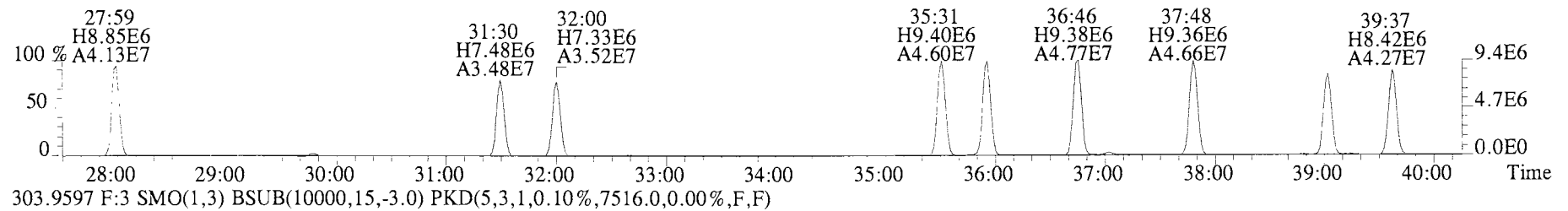
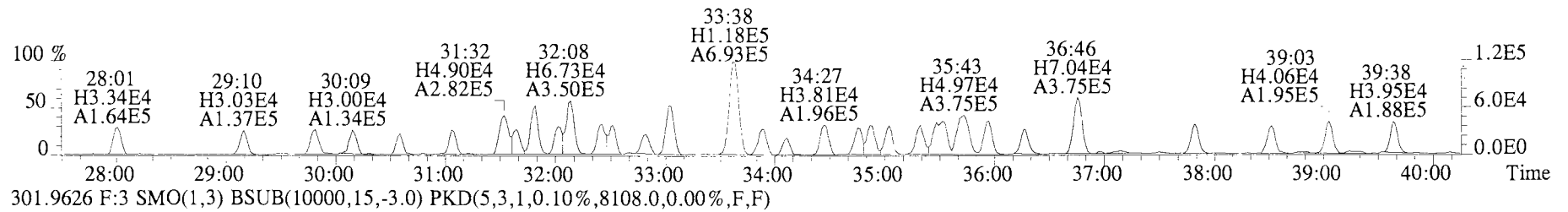
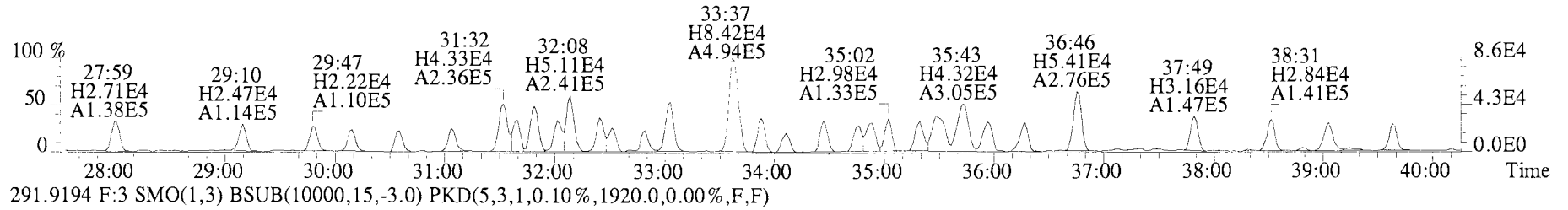
257.9584 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1644.0,0.00%,F,F)



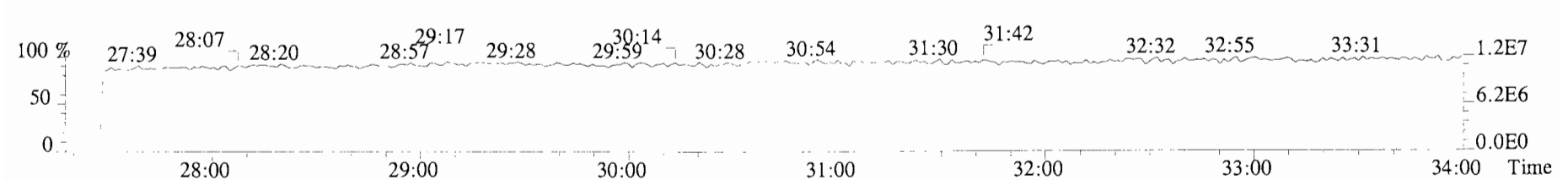
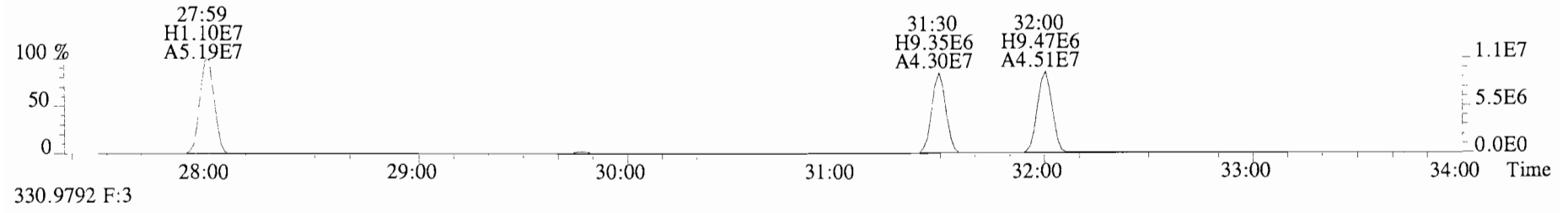
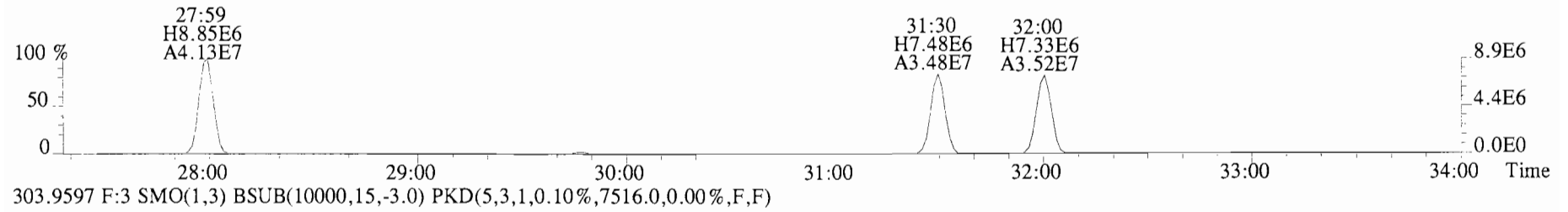
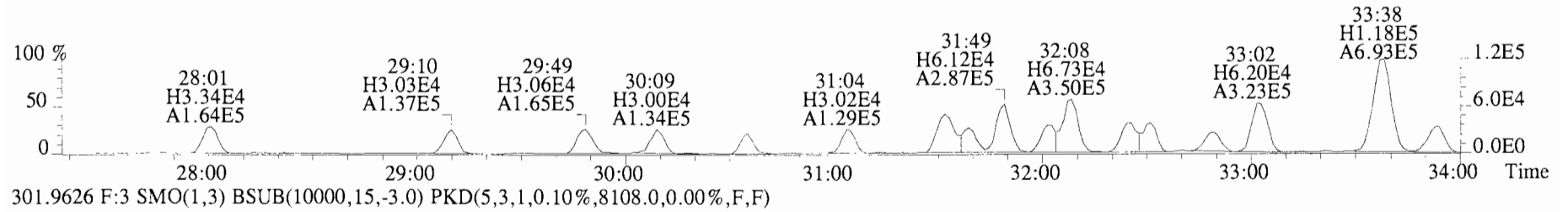
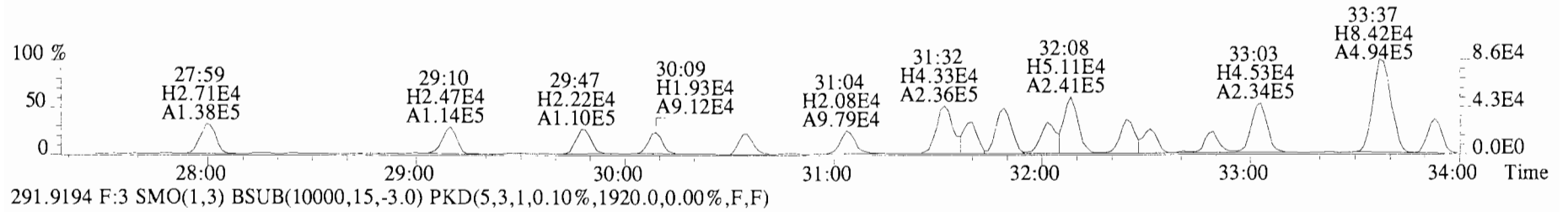
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
268.0016 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,44680.0,0.00%,F,F)



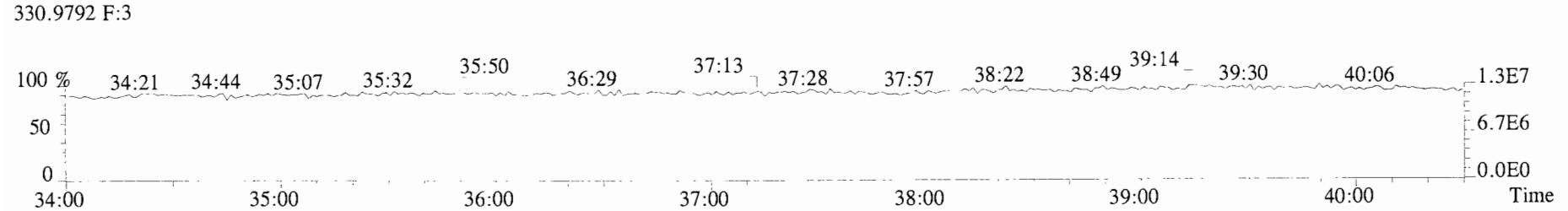
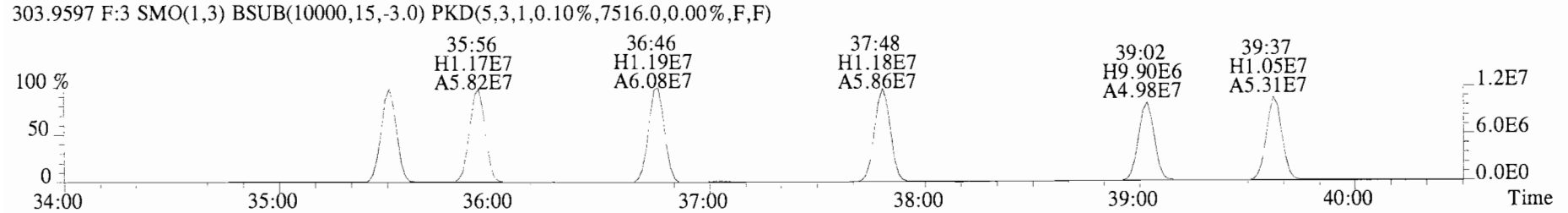
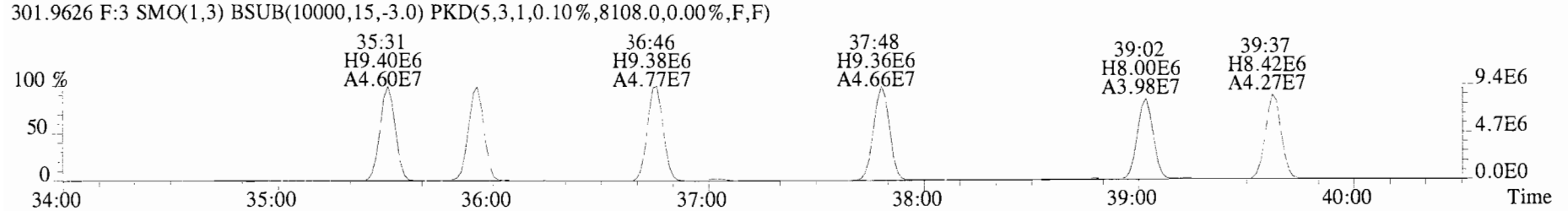
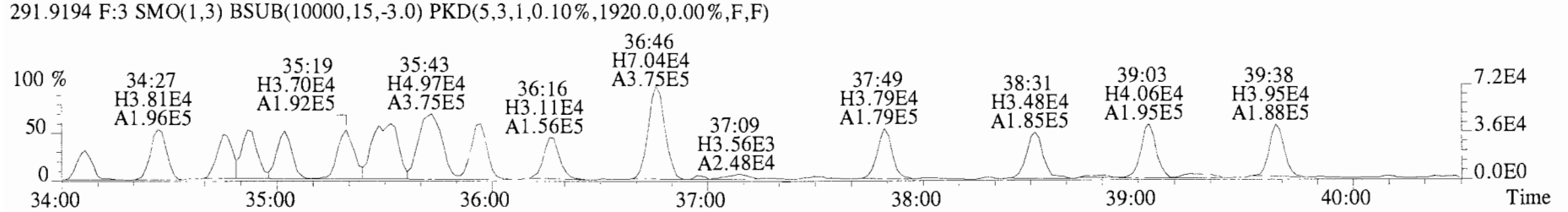
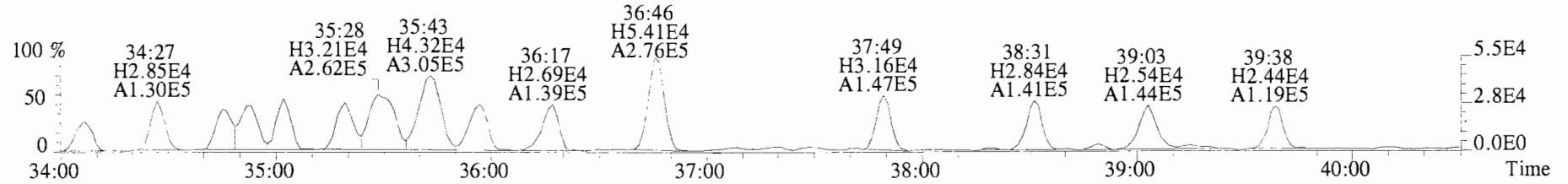
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



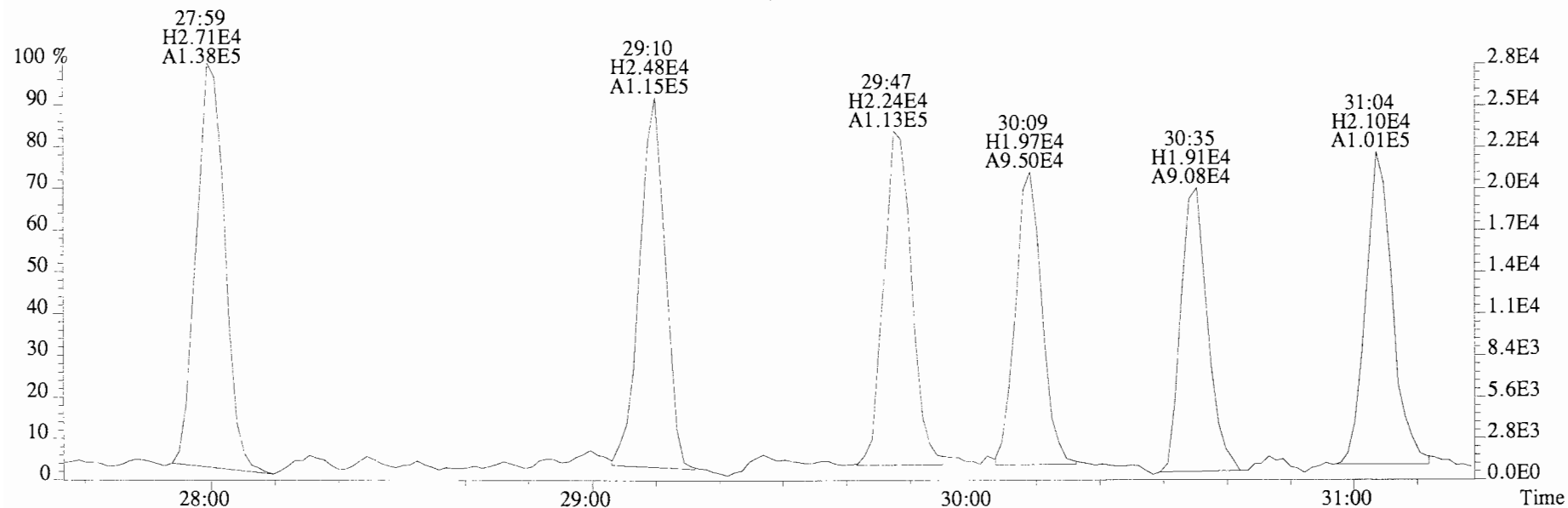
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



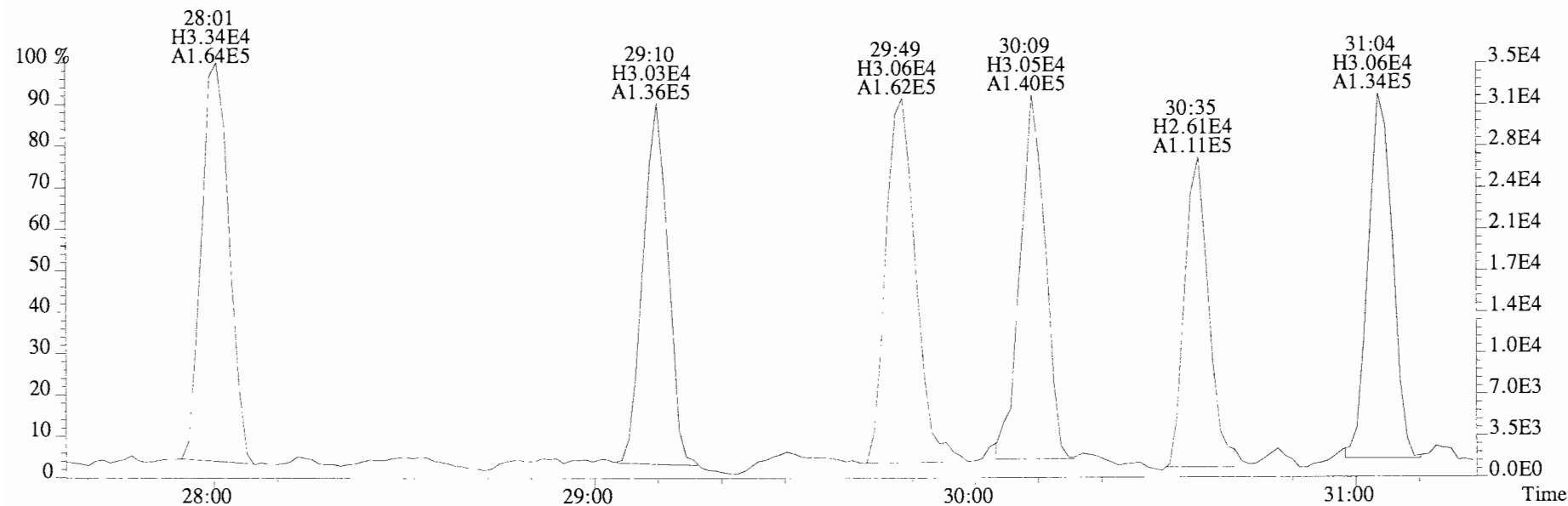
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



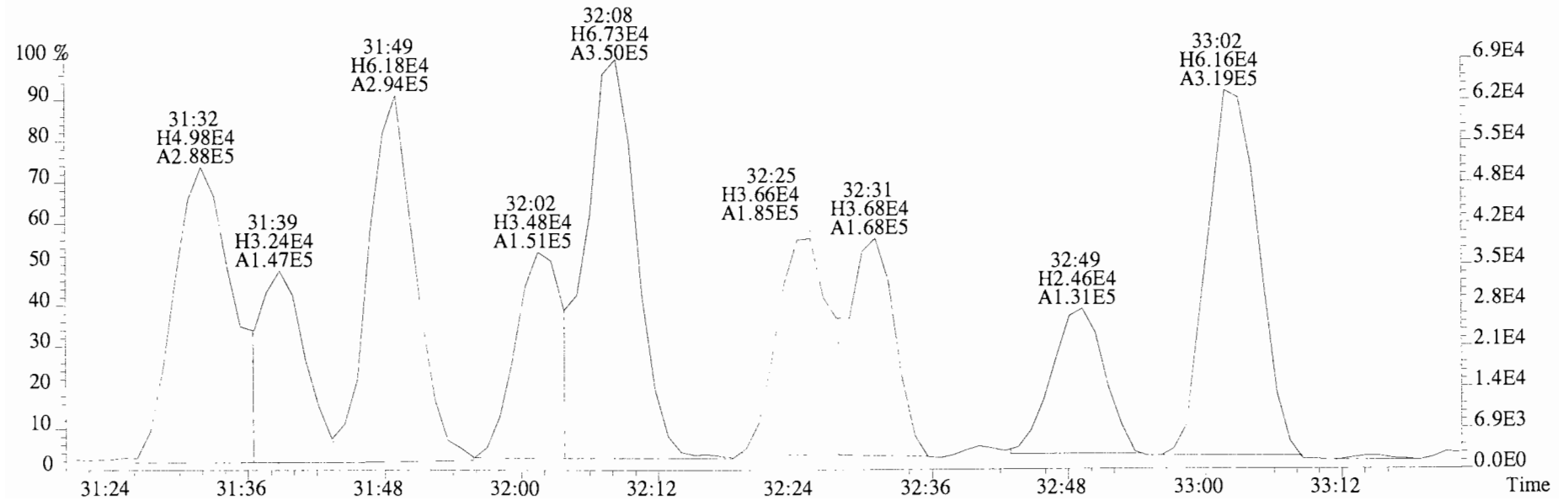
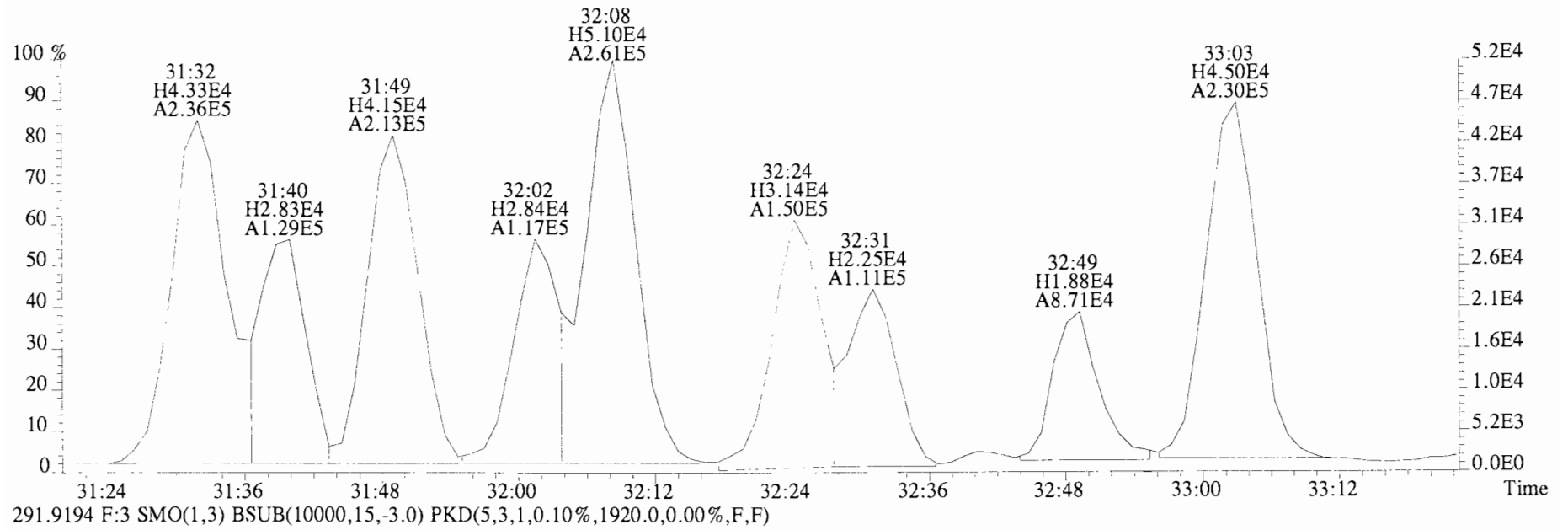
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



291.9194 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1920.0,0.00%,F,F)

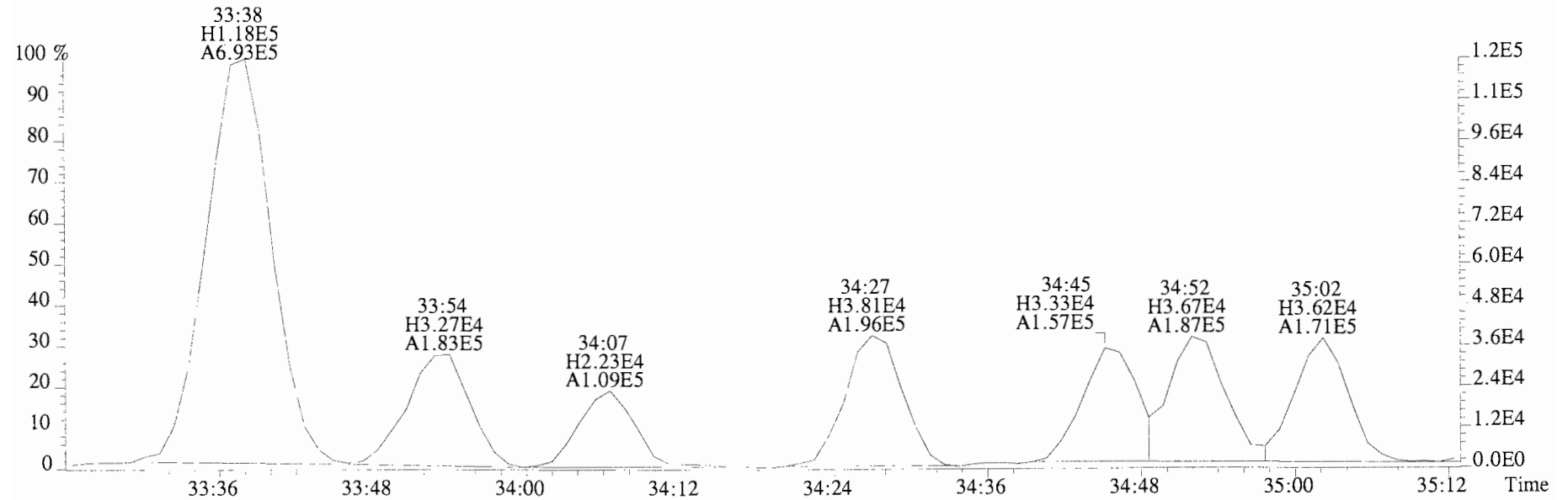
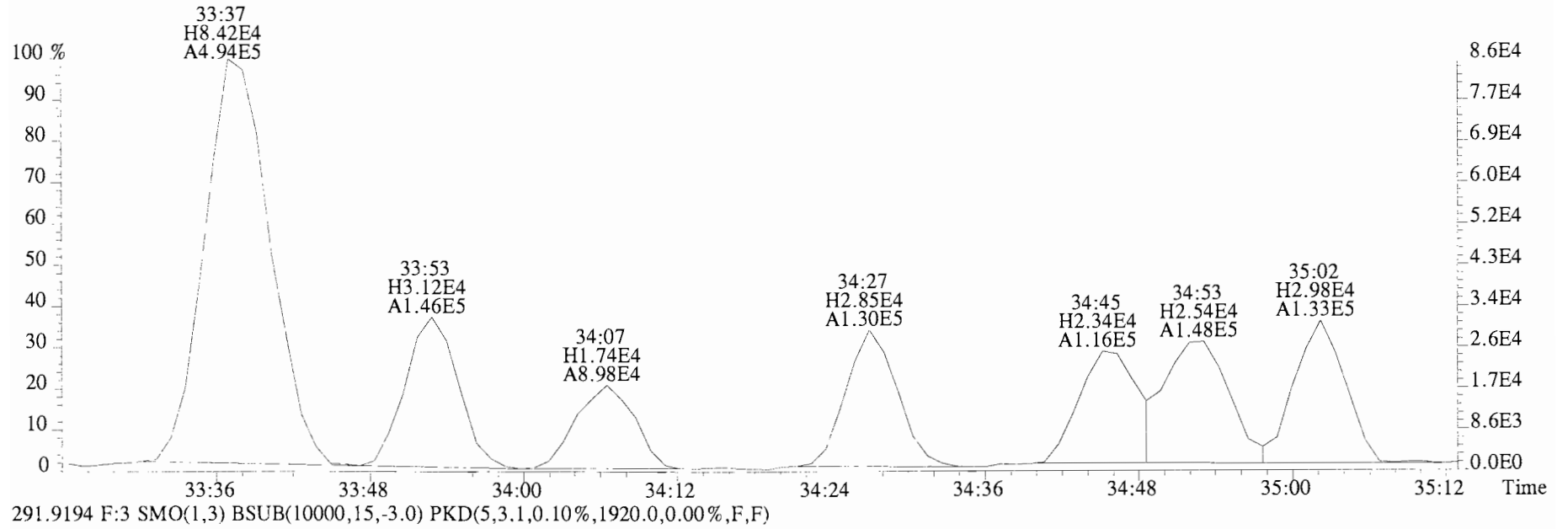


File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)

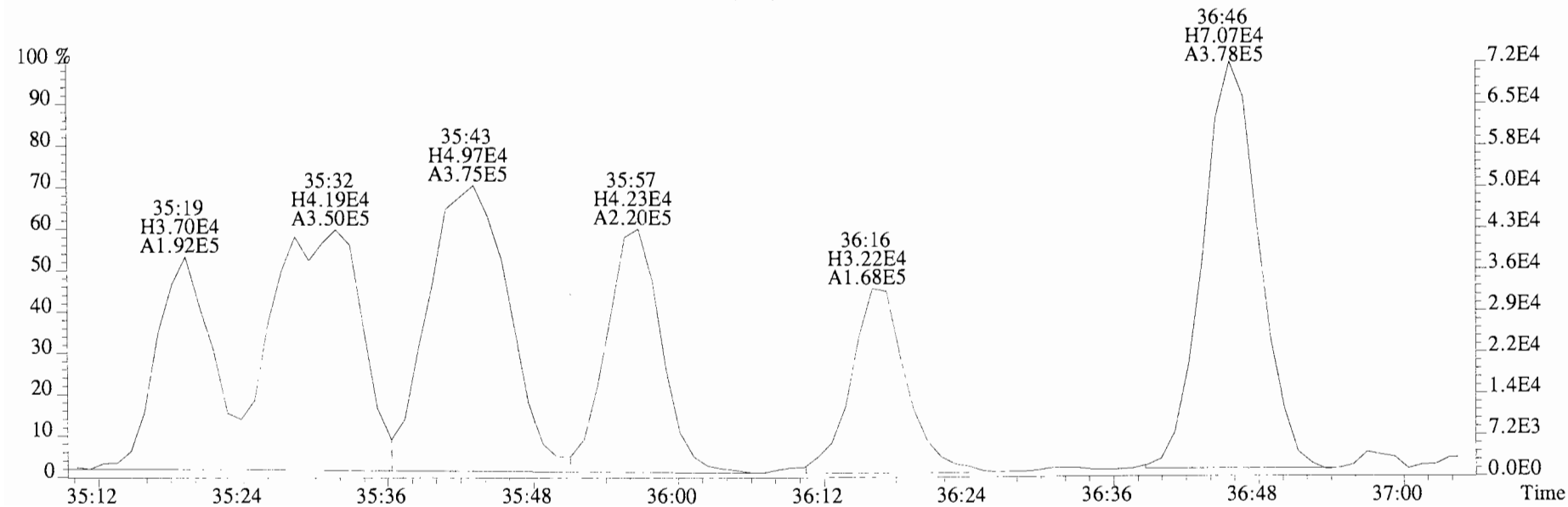
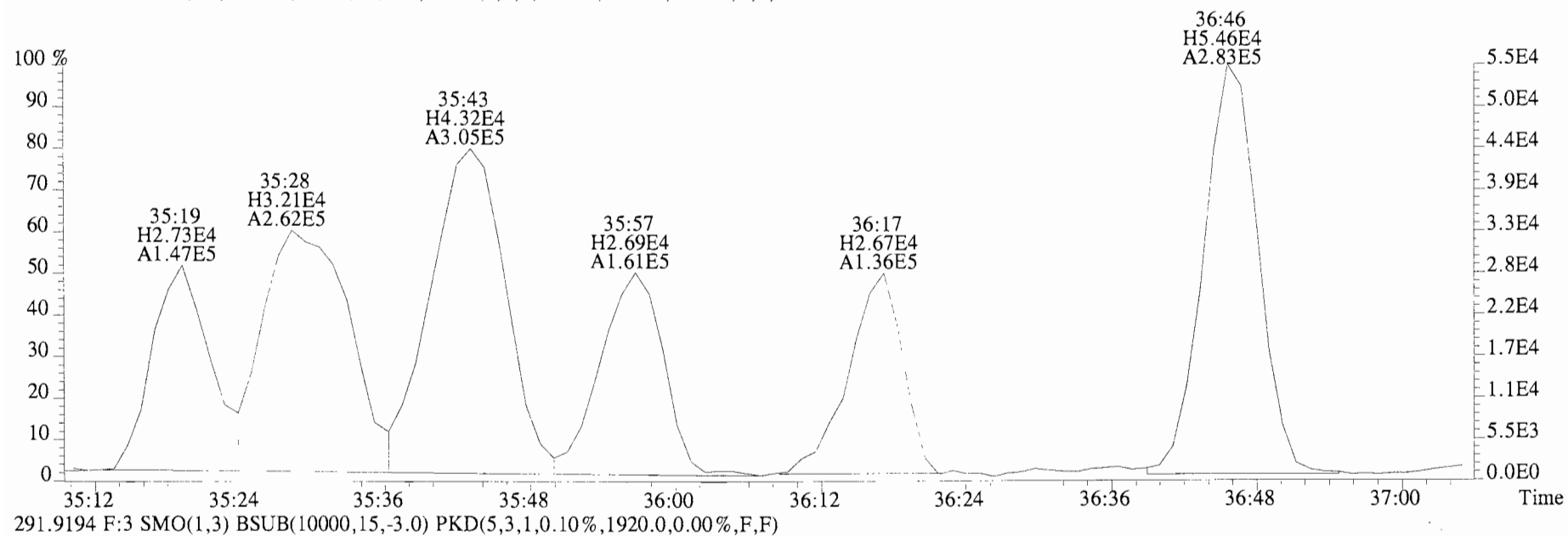




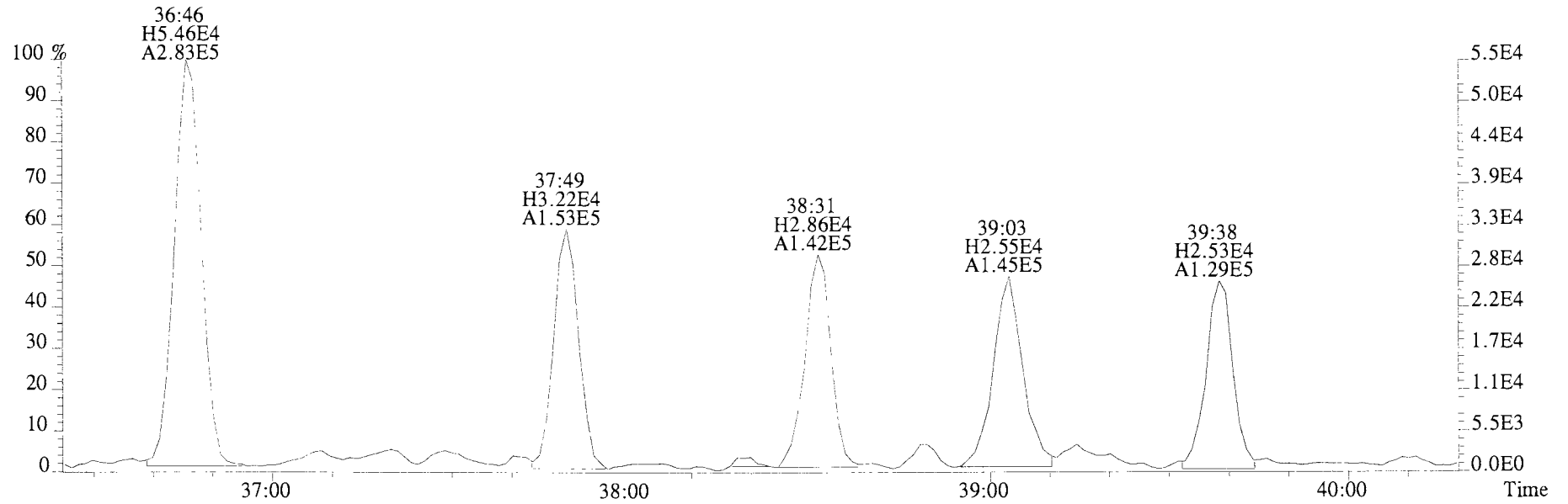
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



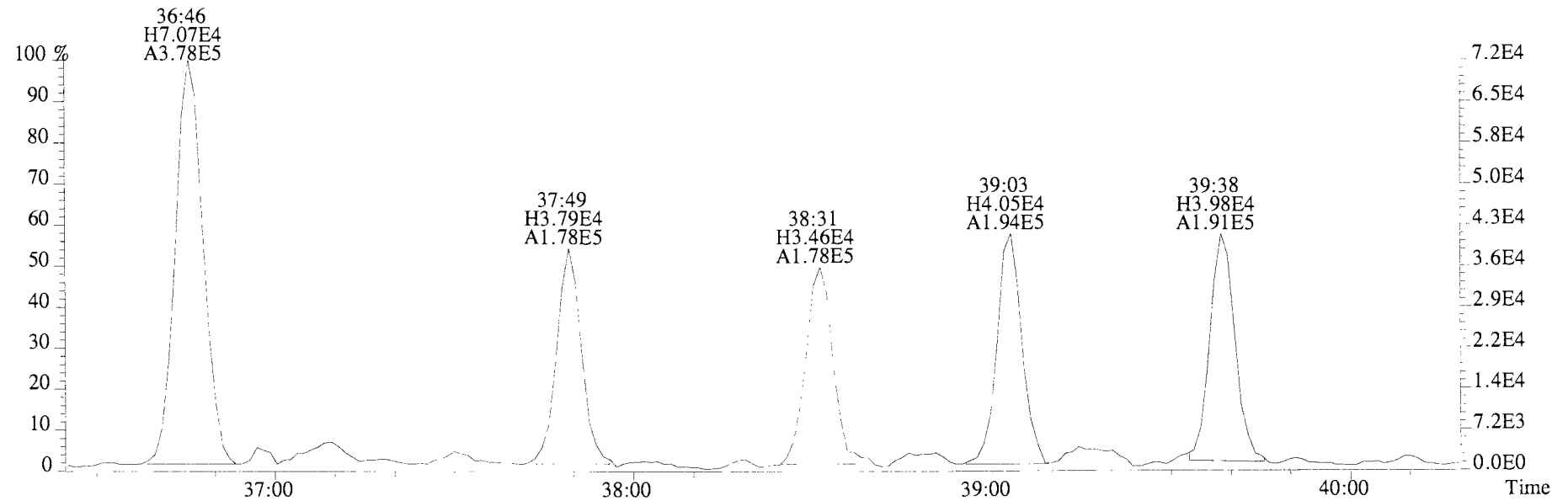
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



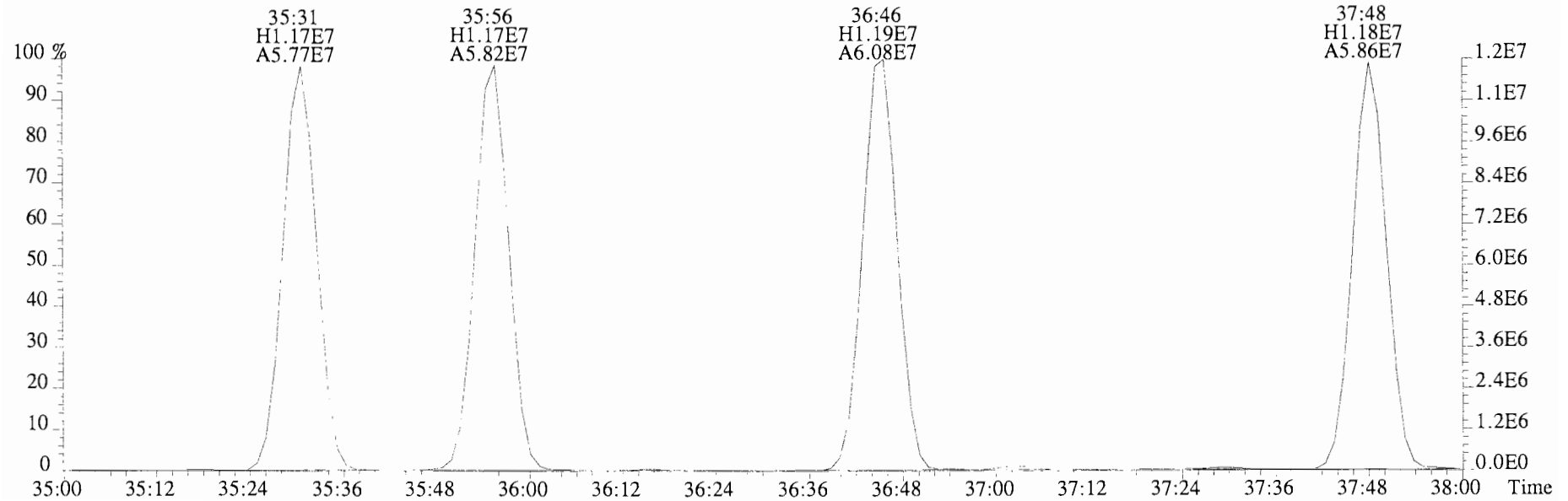
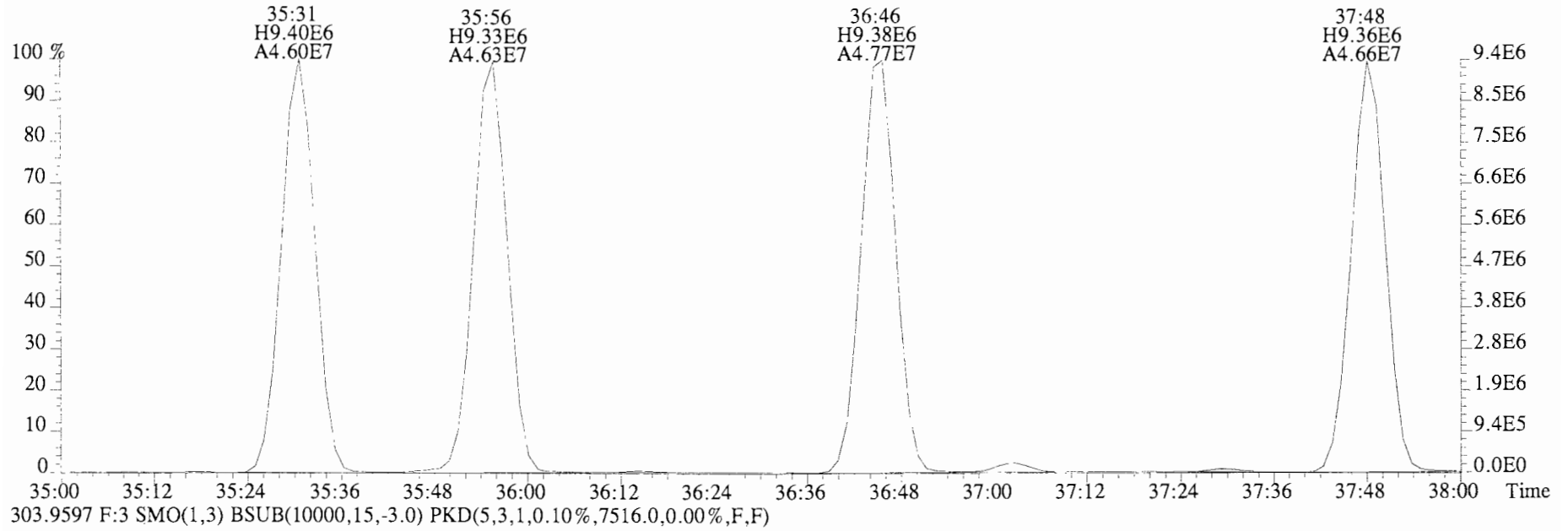
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1524.0,0.00%,F,F)



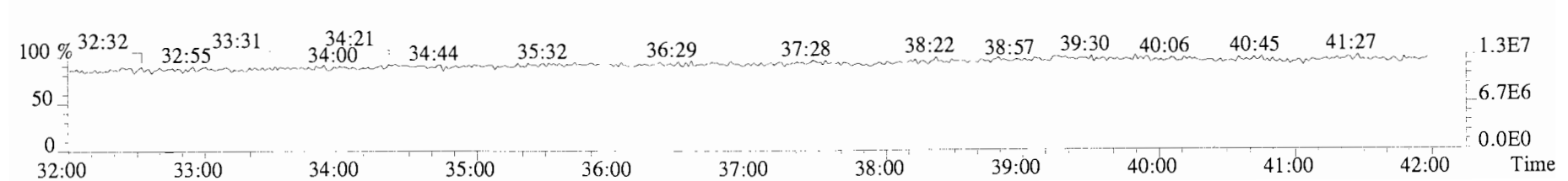
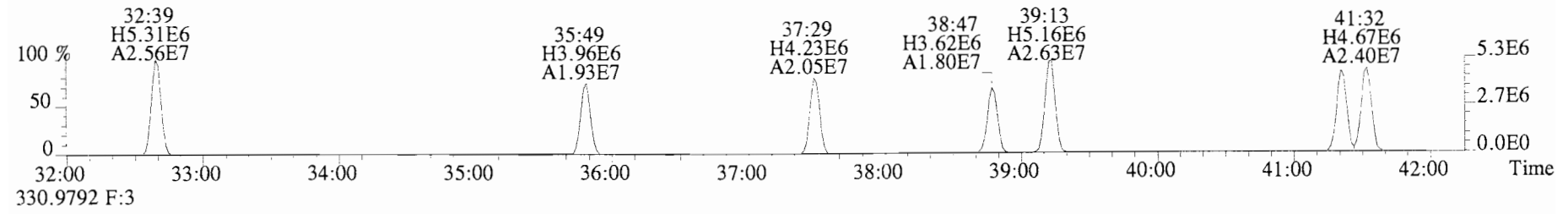
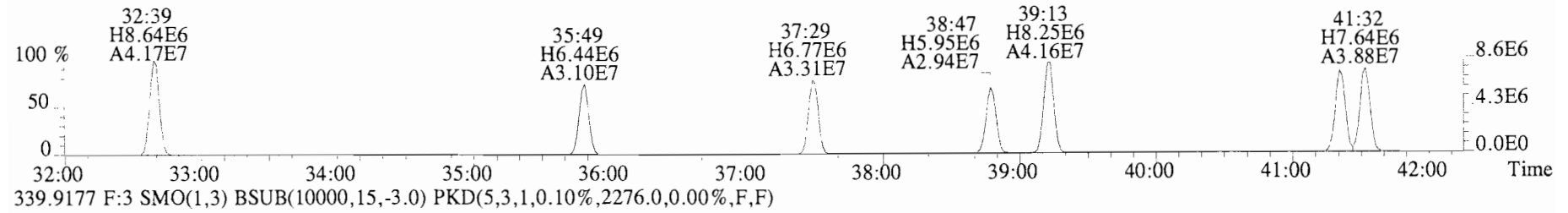
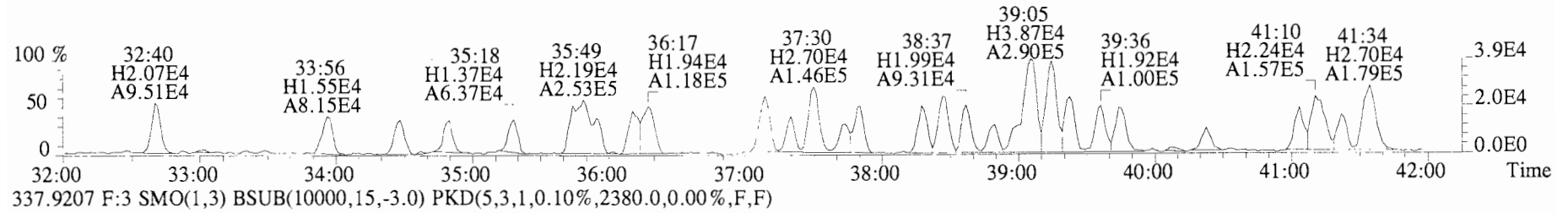
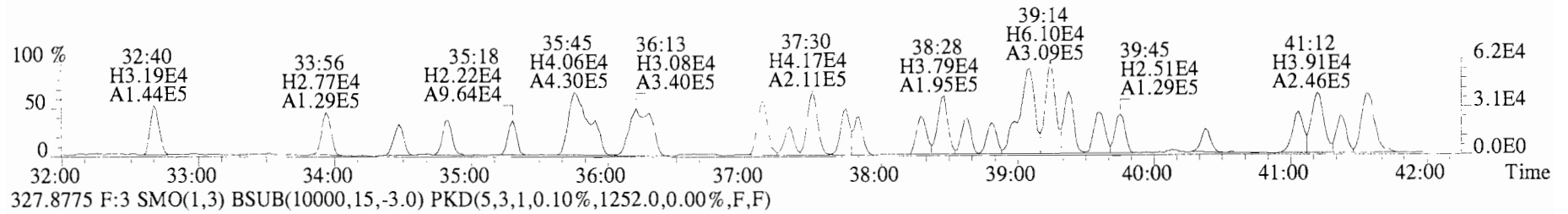
291.9194 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1920.0,0.00%,F,F)



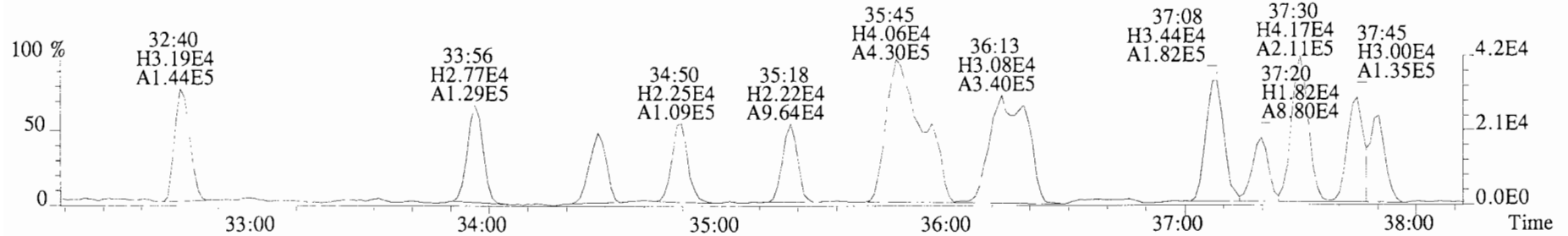
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
301.9626 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,8108.0,0.00%,F,F)



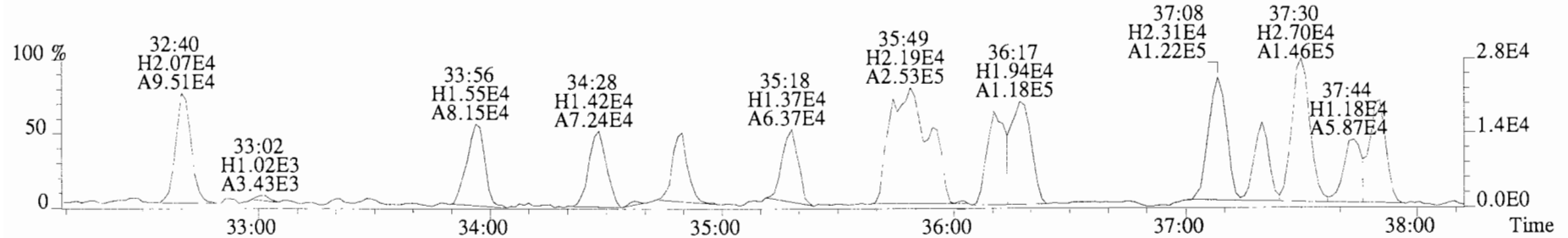
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1436.0,0.00%,F,F)



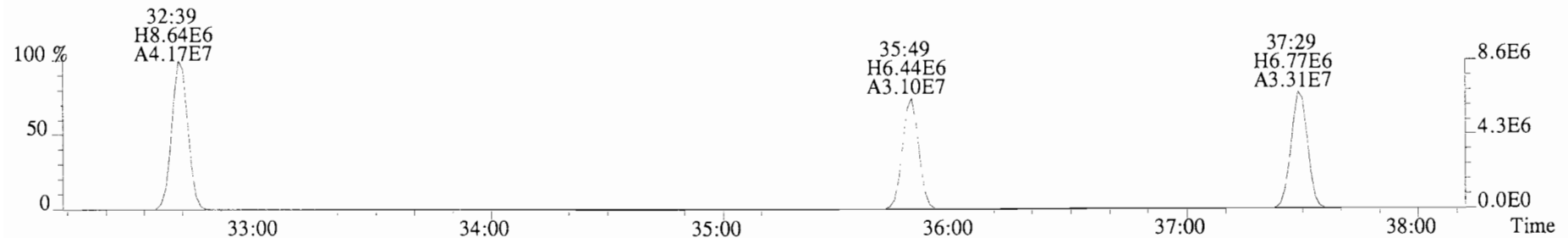
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1436.0,0.00%,F,F)



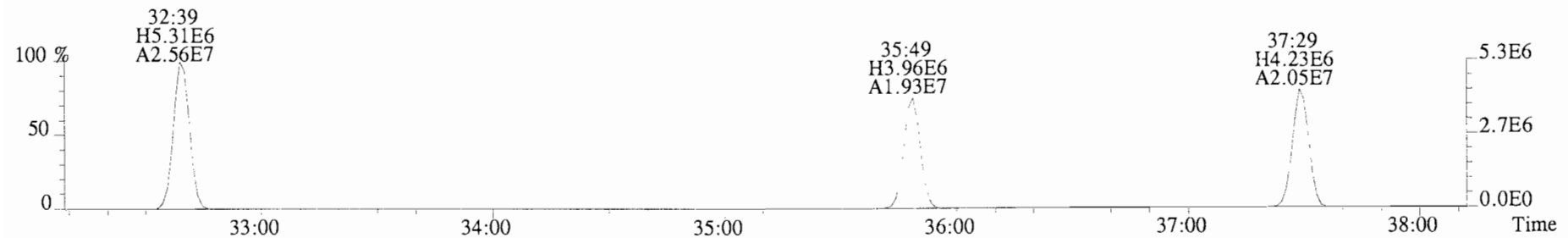
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1252.0,0.00%,F,F)



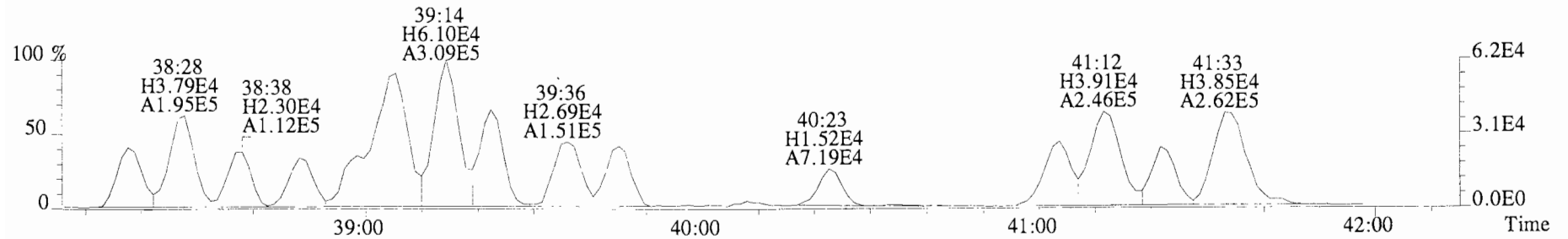
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2380.0,0.00%,F,F)



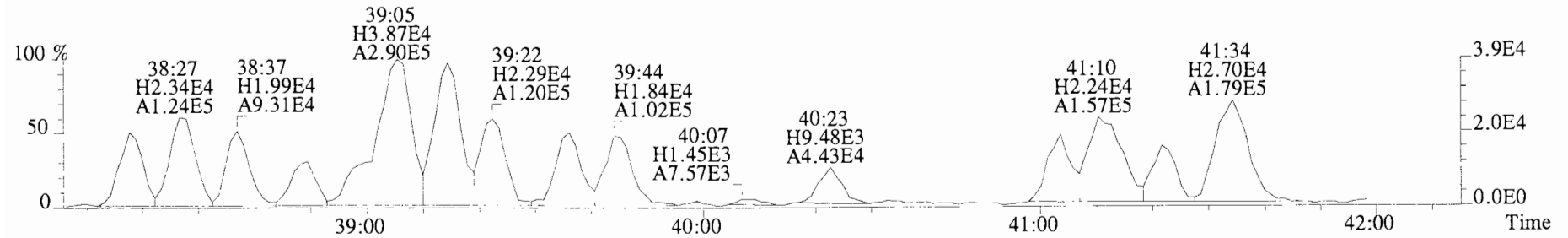
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2276.0,0.00%,F,F)



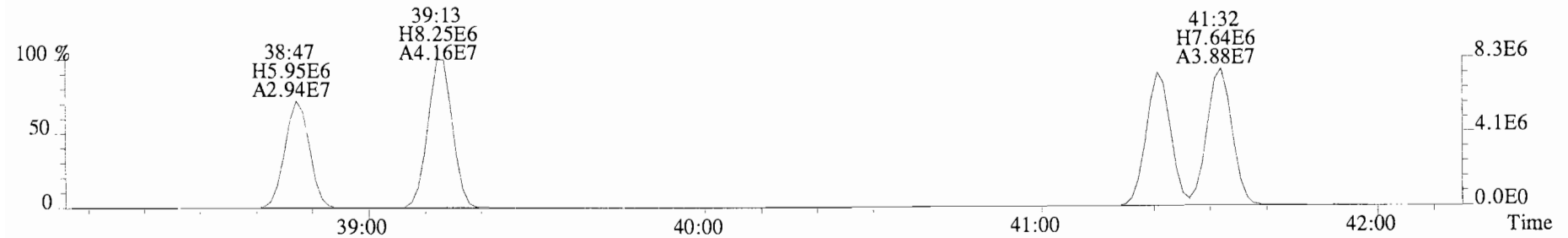
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1436.0,0.00%,F,F)



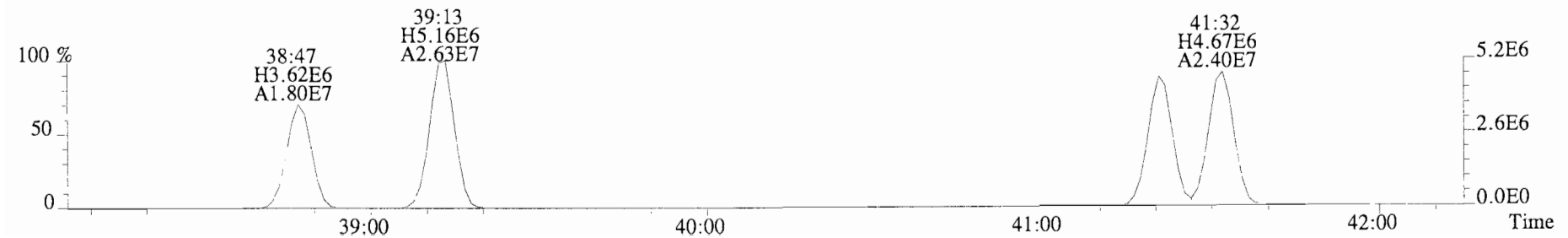
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1252.0,0.00%,F,F)



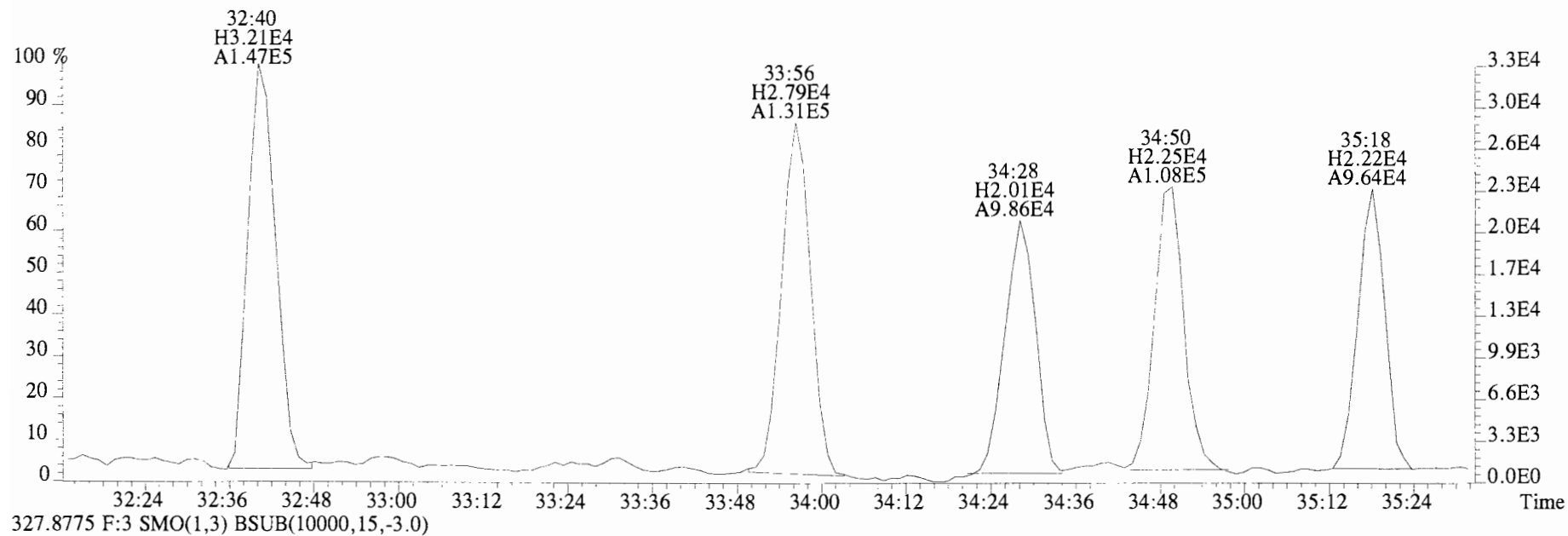
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2380.0,0.00%,F,F)



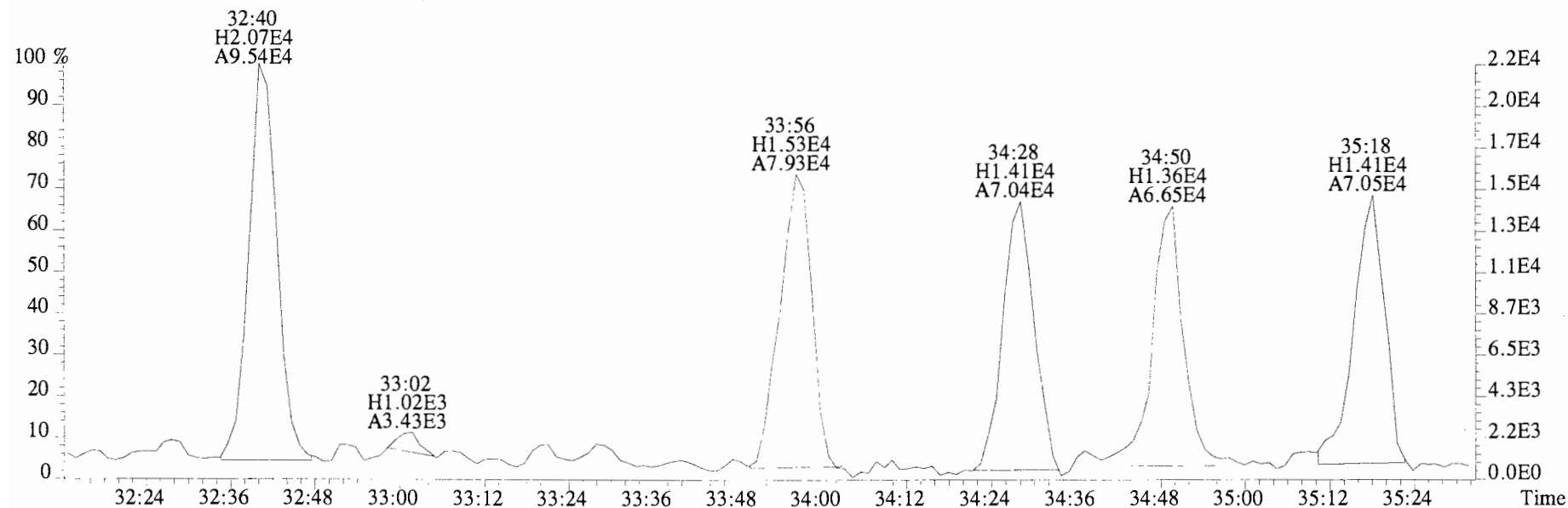
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2276.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0)

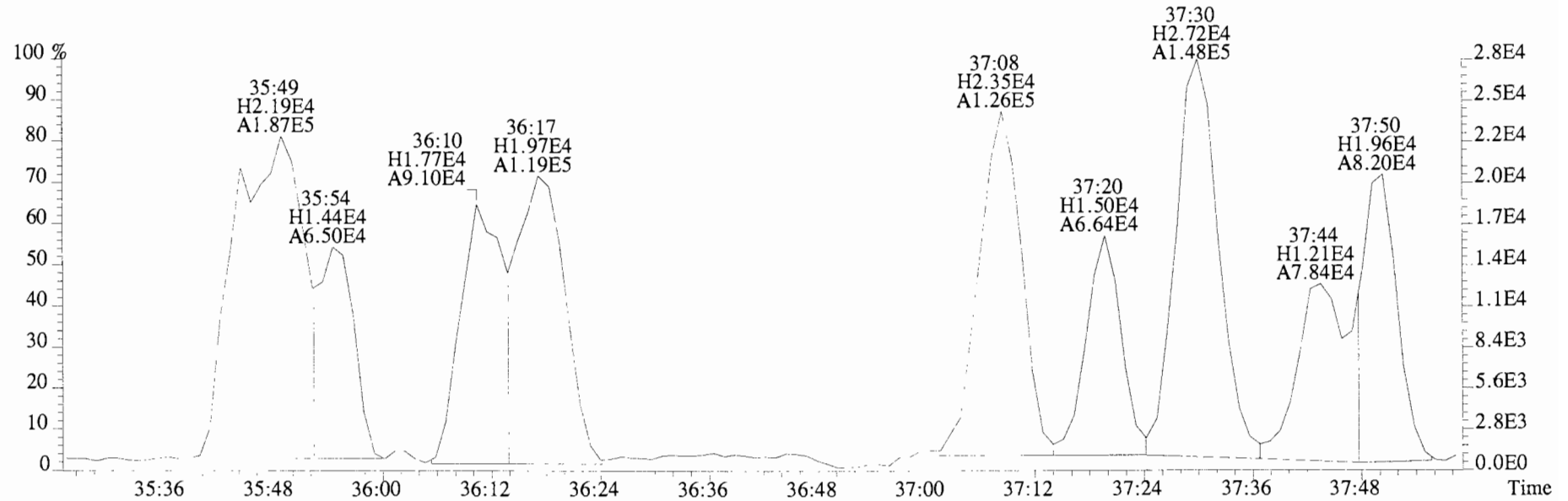
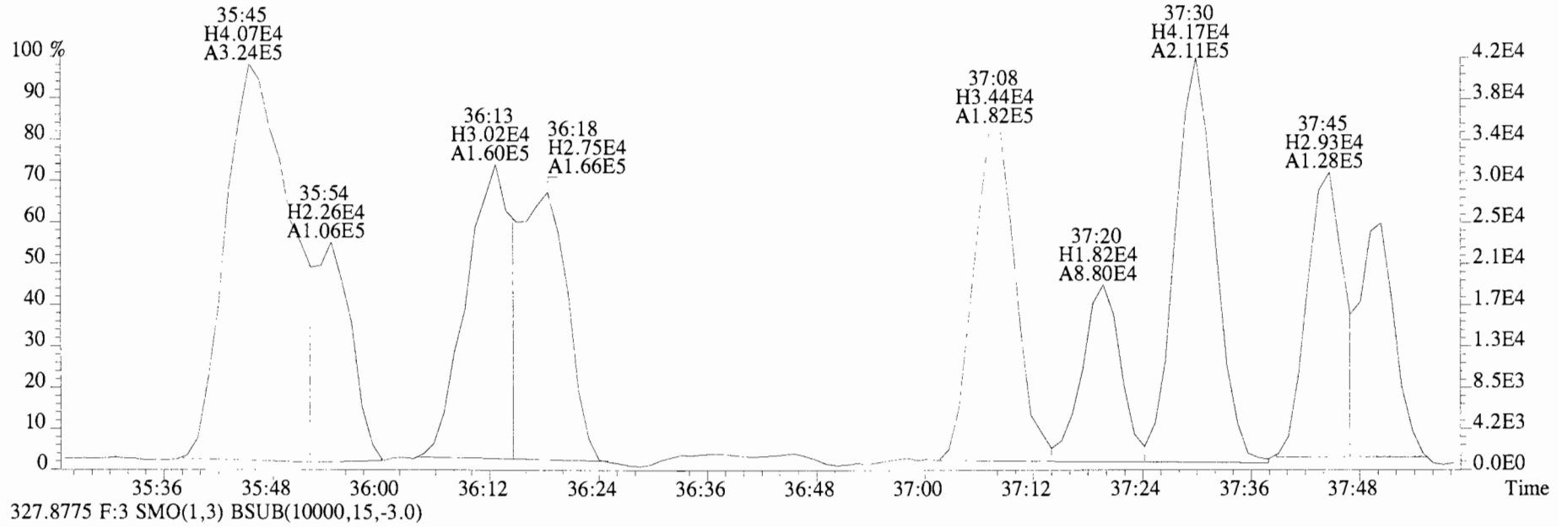


327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0)

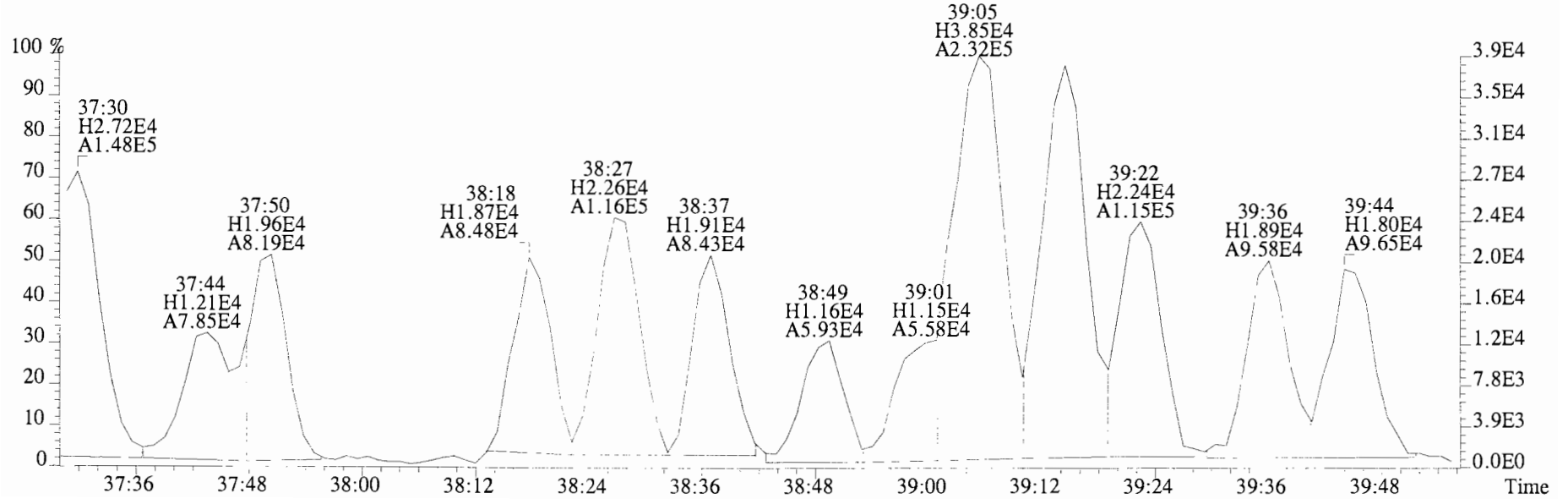
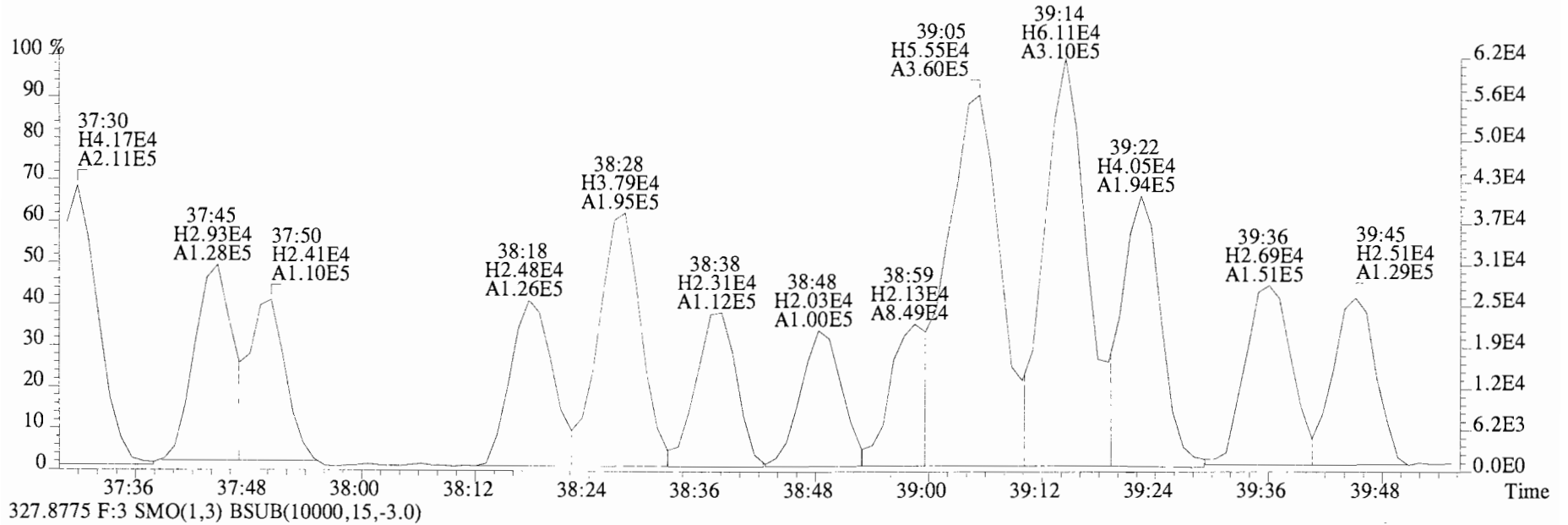




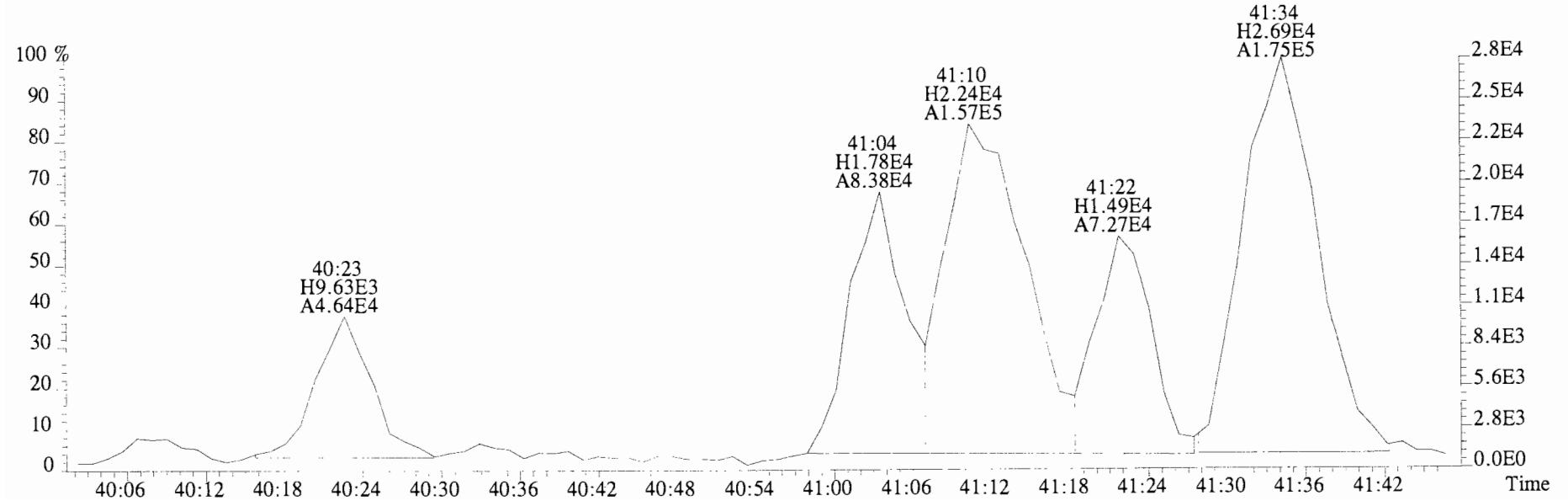
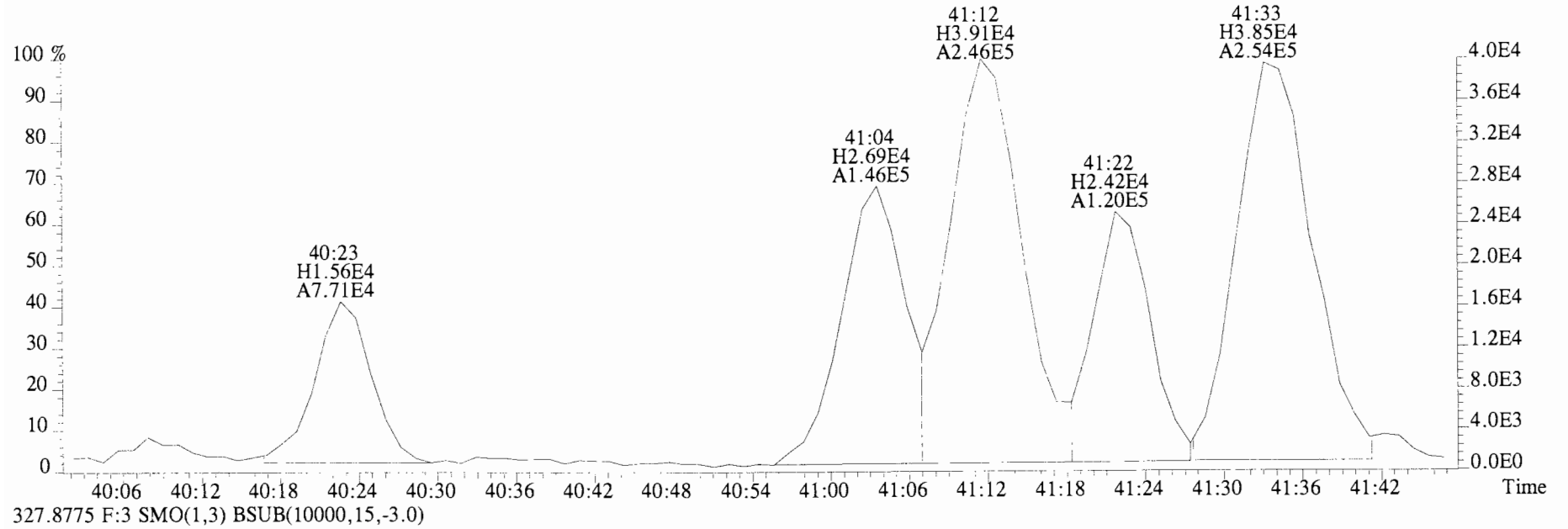
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0)



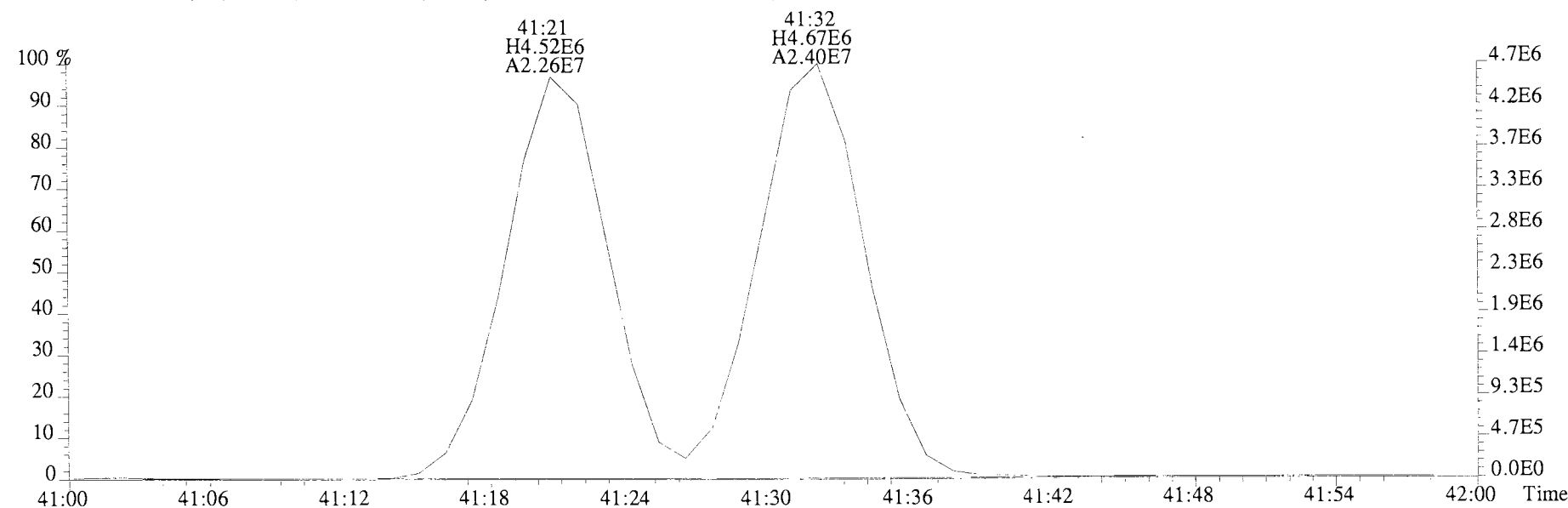
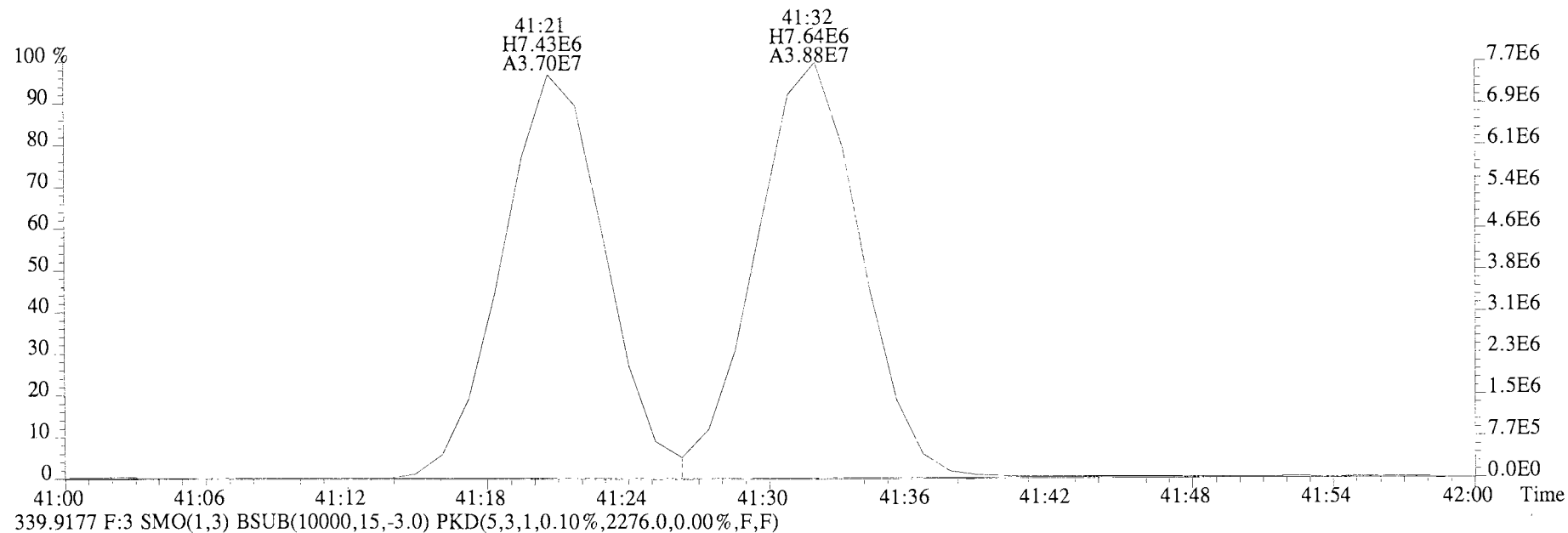
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0)



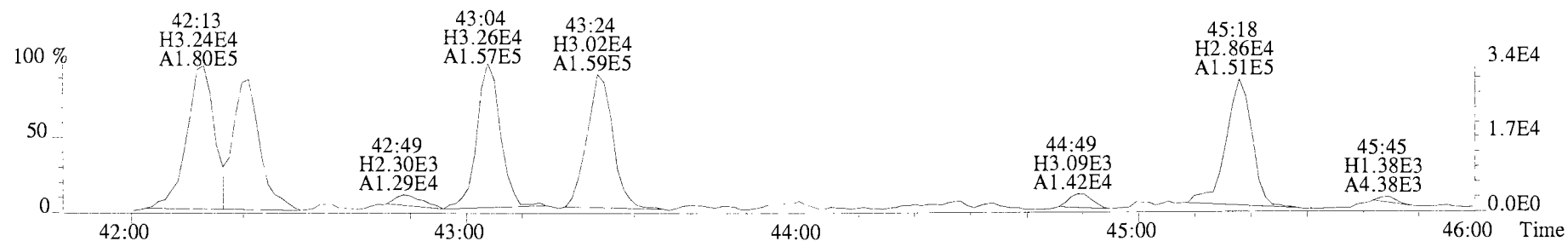
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0)



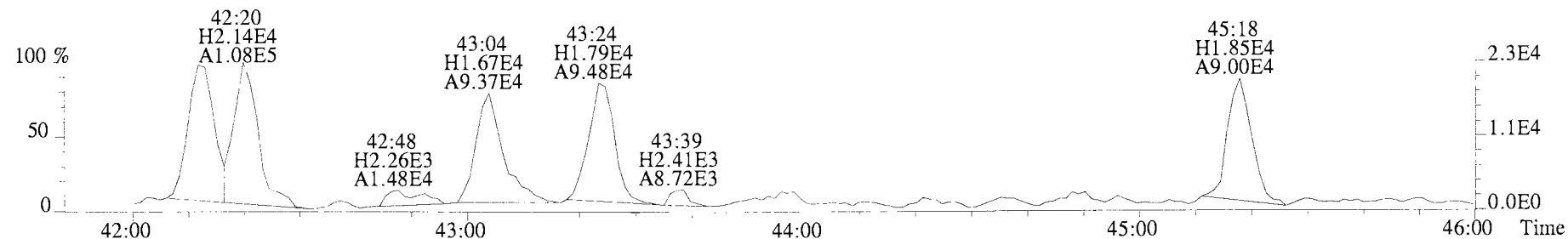
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2380.0,0.00%,F,F)



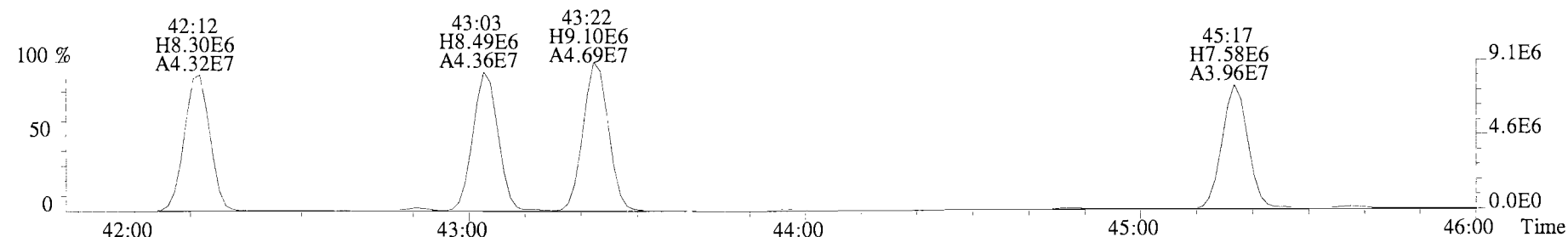
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1748.0,0.00%,F,F)



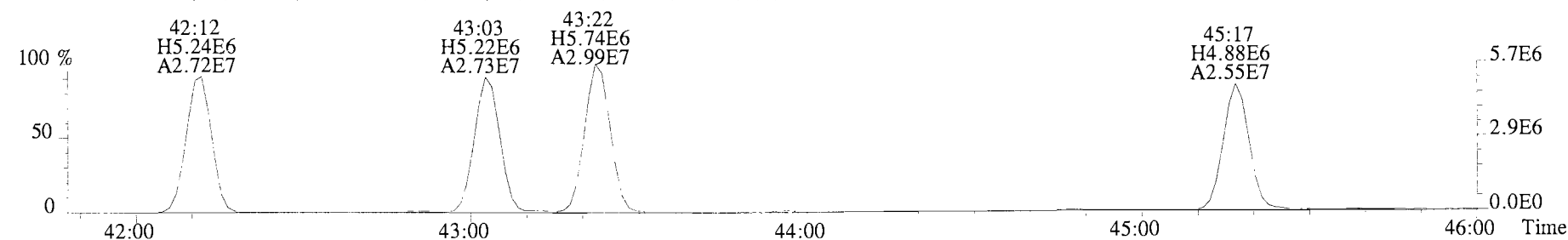
327.8775 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1816.0,0.00%,F,F)



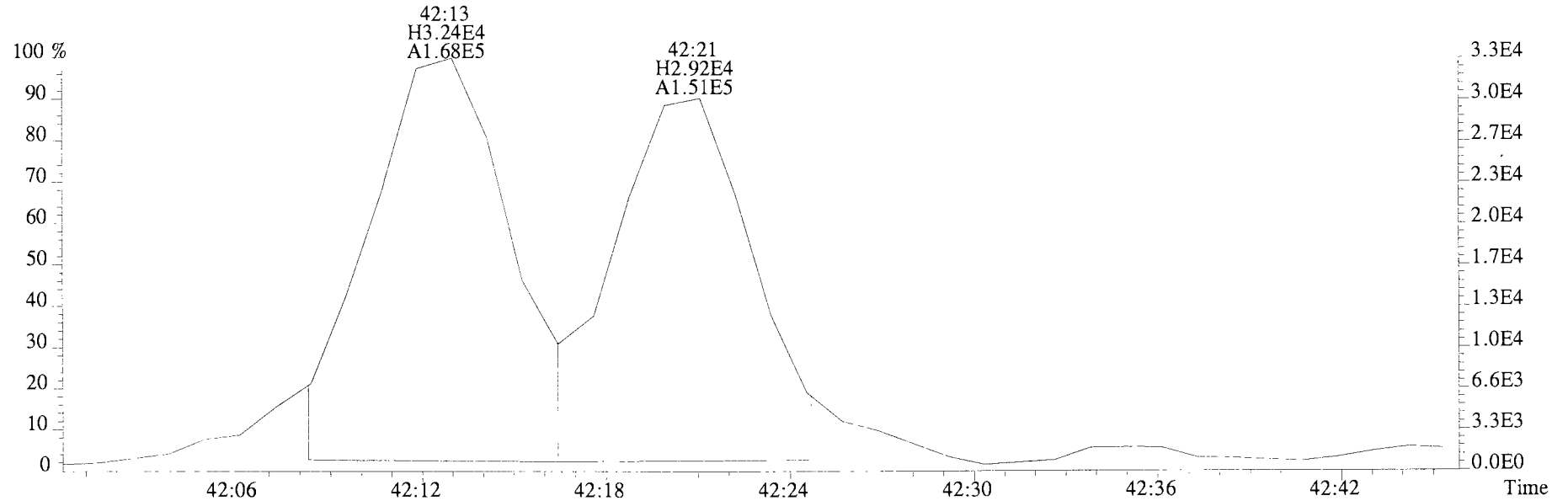
337.9207 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,8840.0,0.00%,F,F)



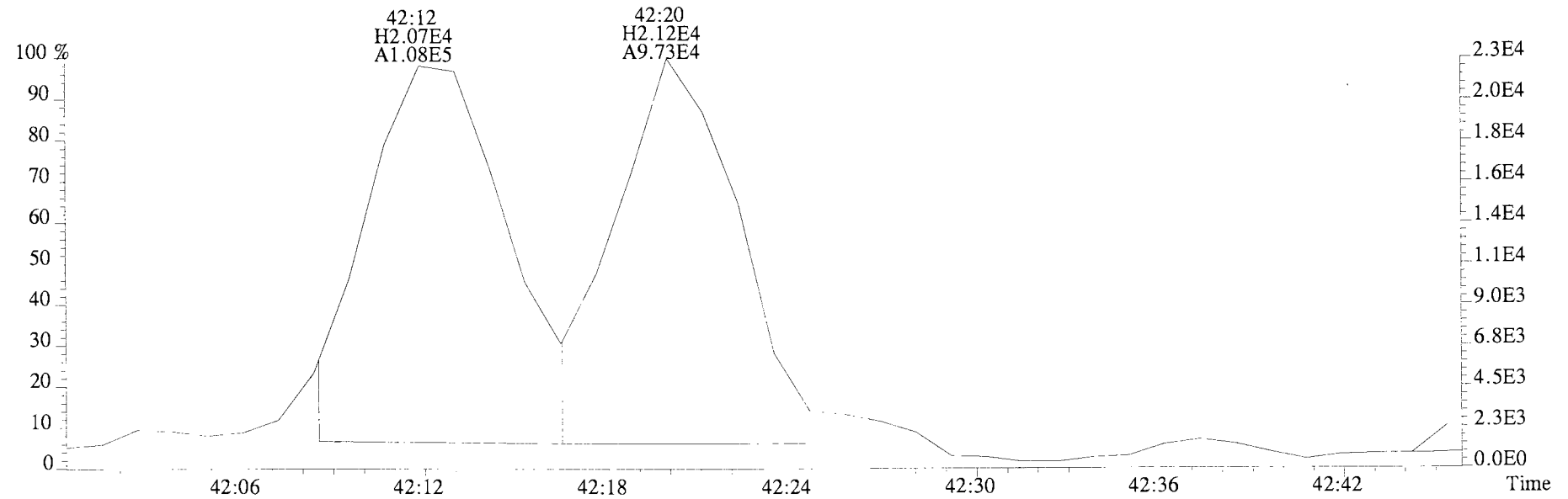
339.9177 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7996.0,0.00%,F,F)



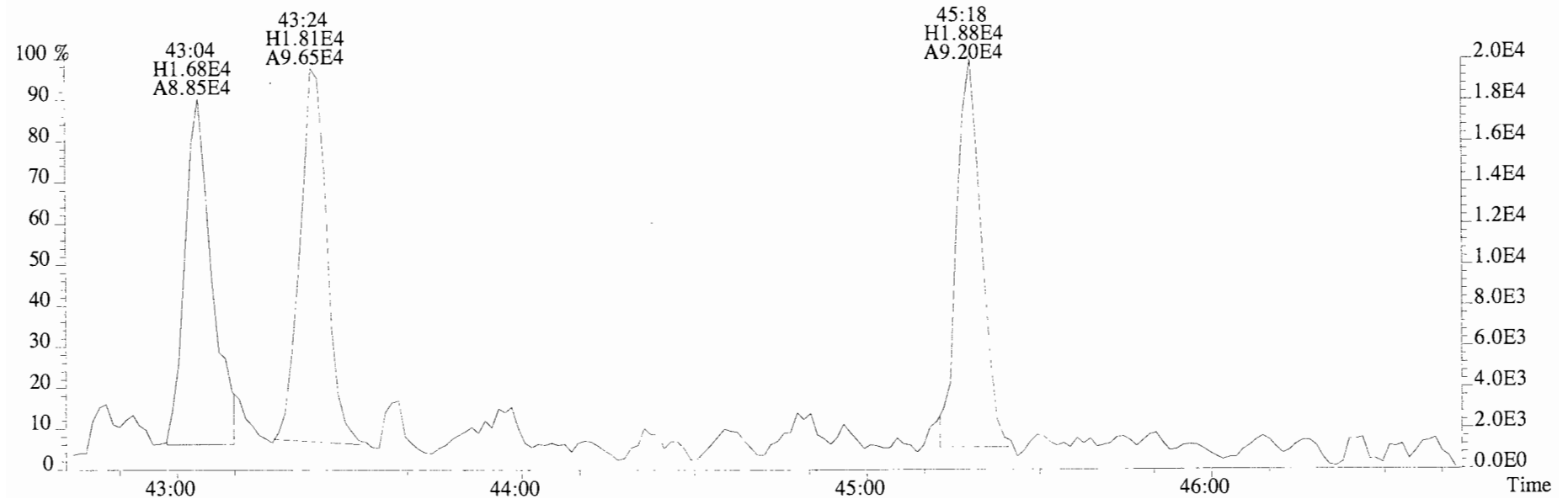
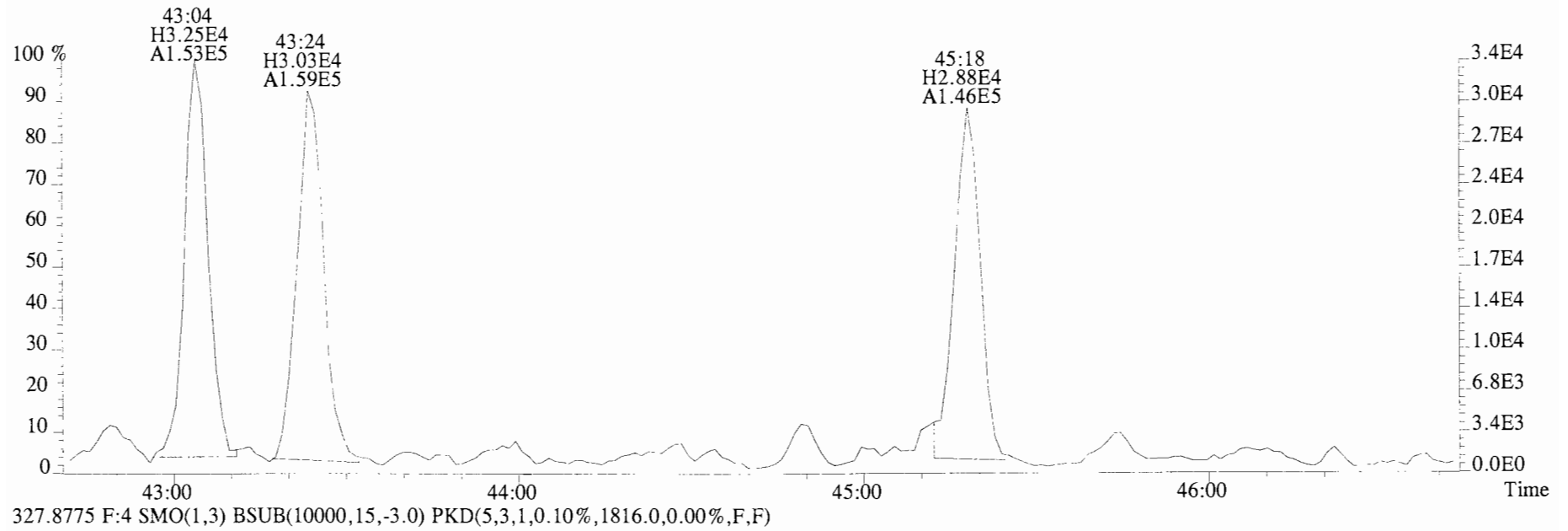
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1748.0,0.00%,F,F)



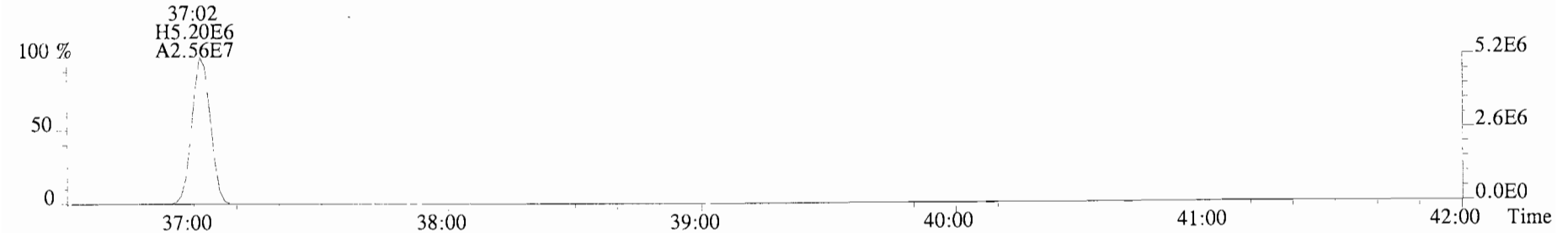
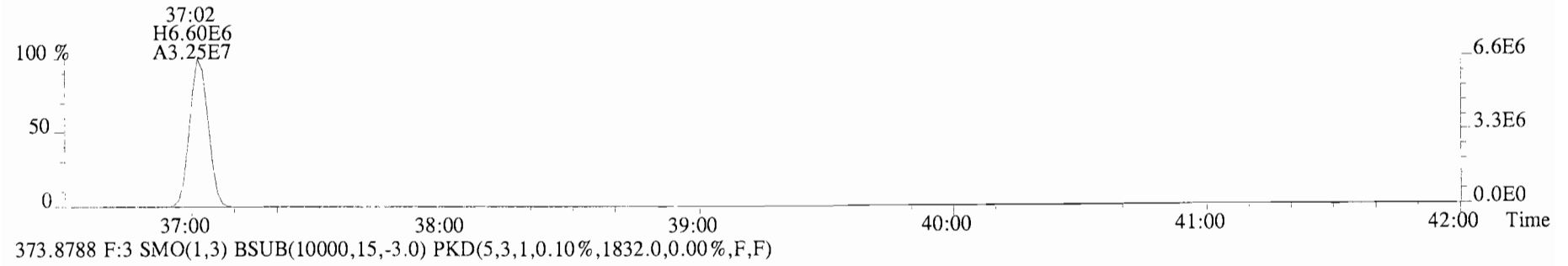
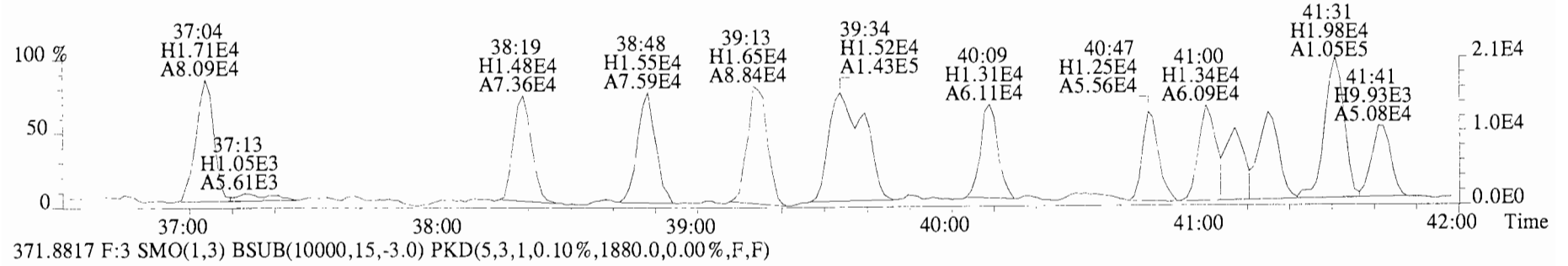
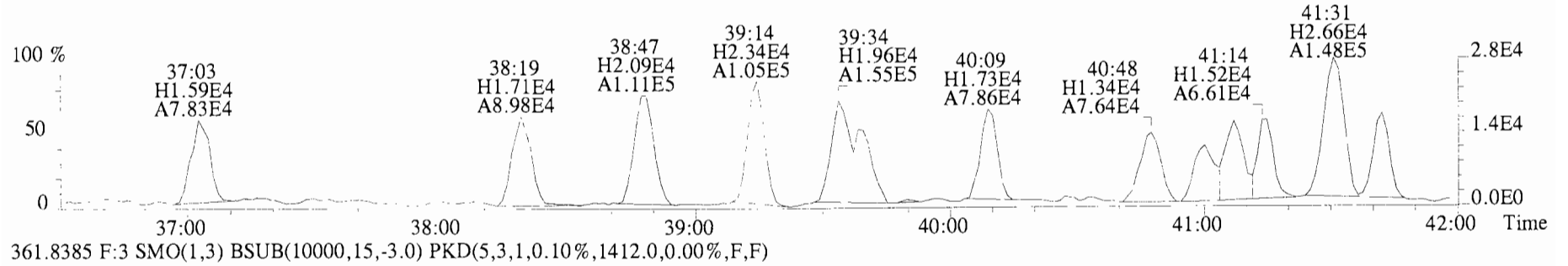
327.8775 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1816.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1748.0,0.00%,F,F)

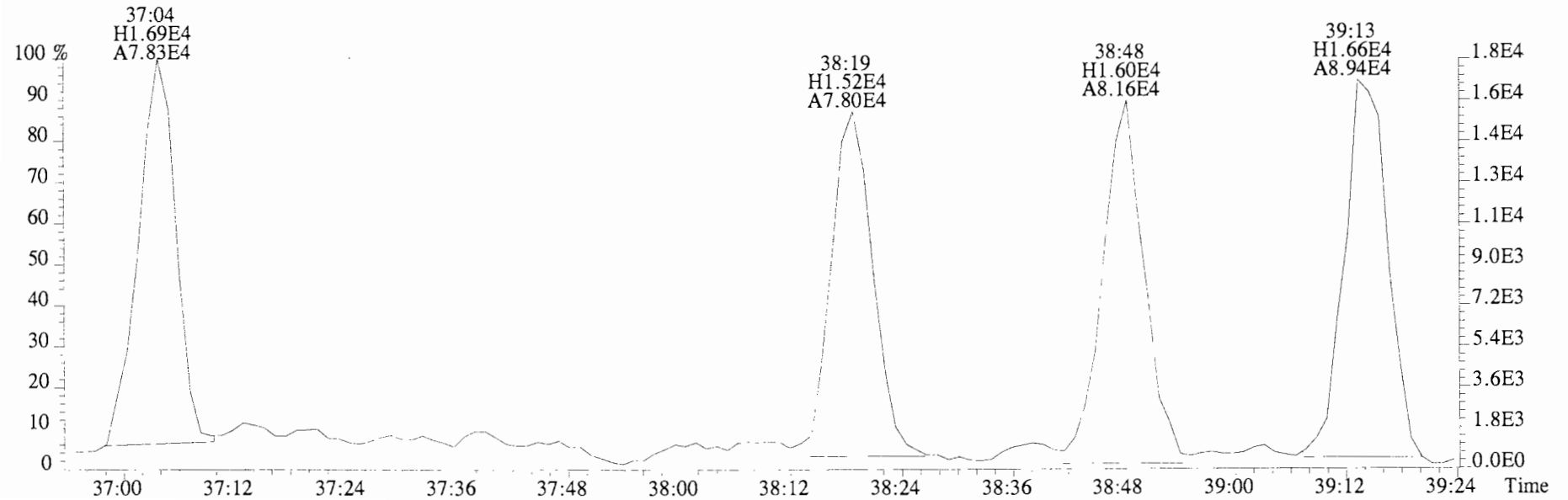
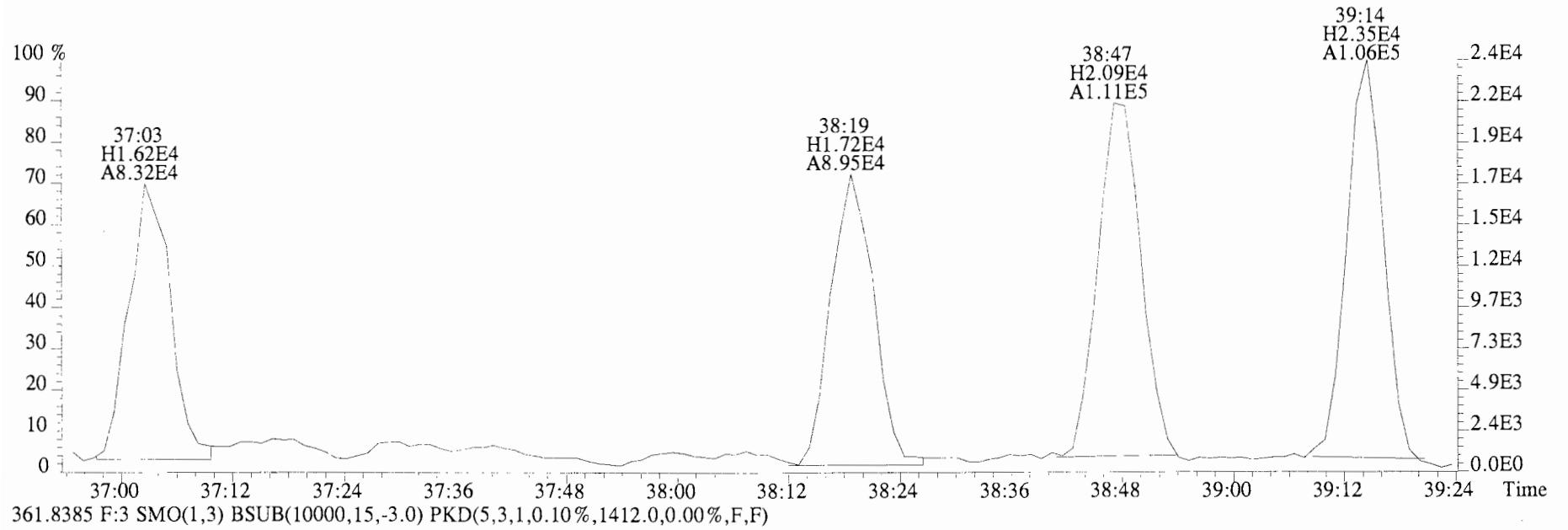


File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1504.0,0.00%,F,F)

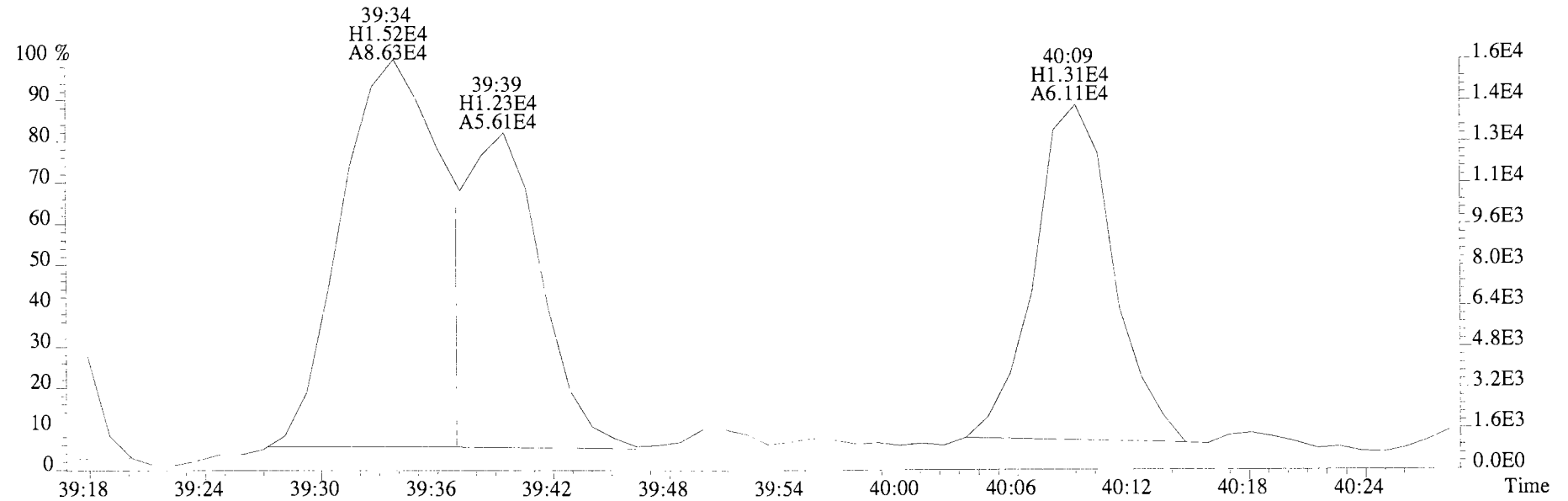
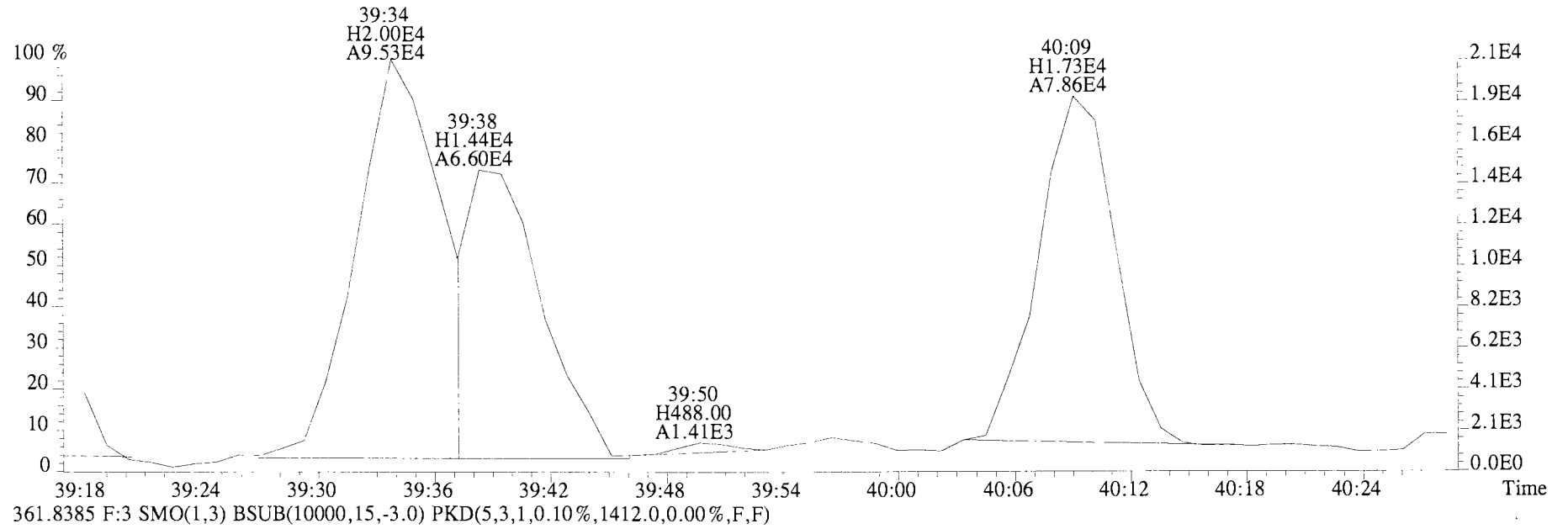




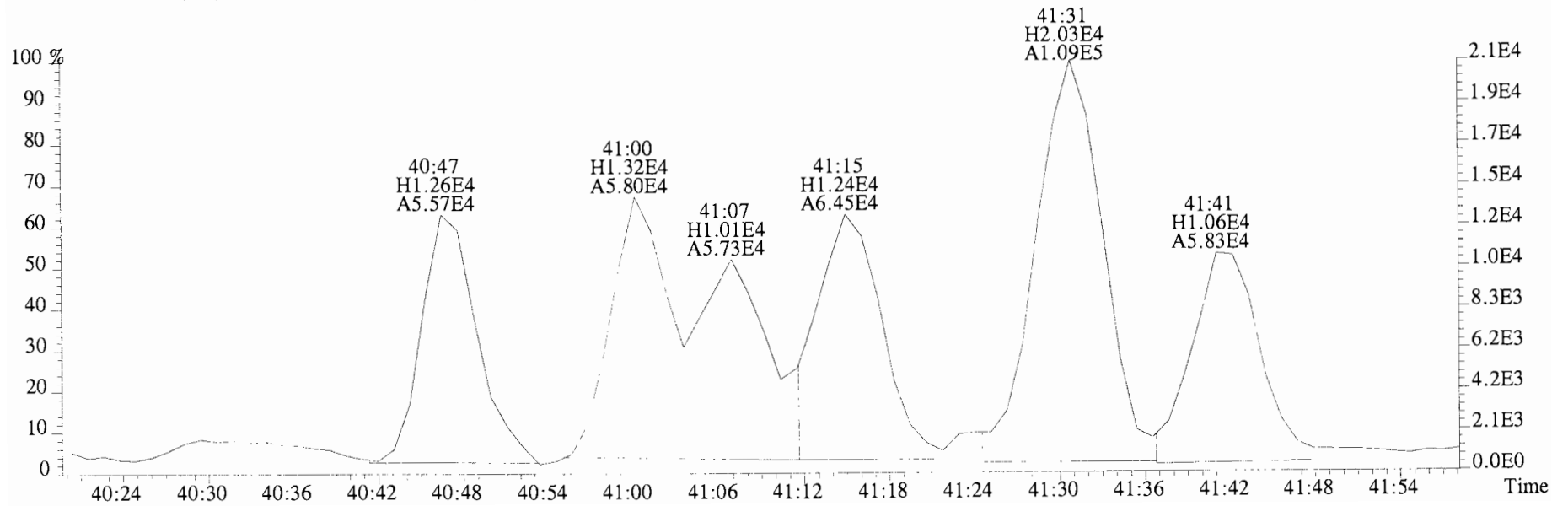
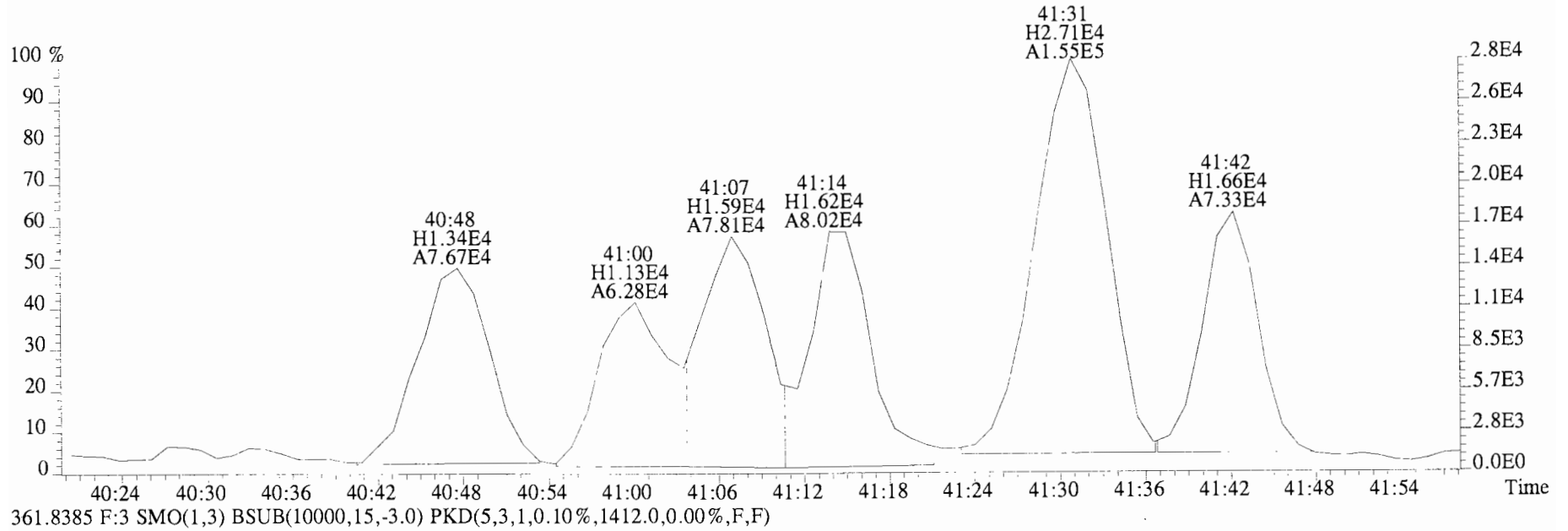
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1504.0,0.00%,F,F)



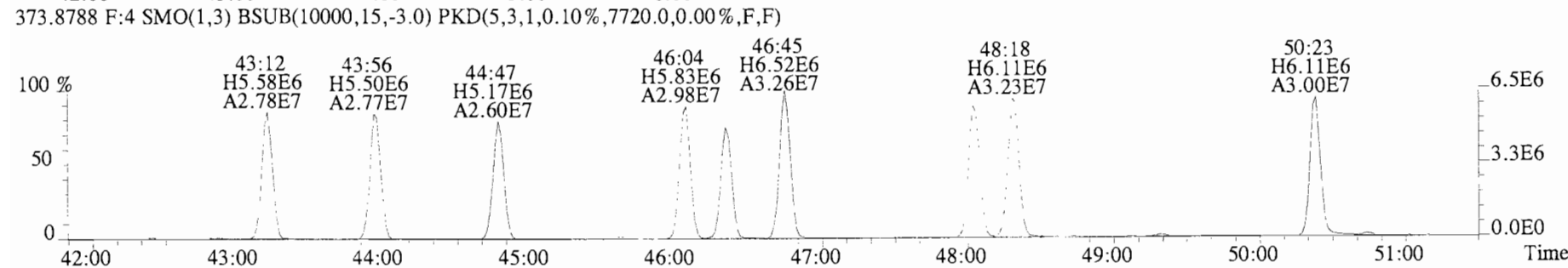
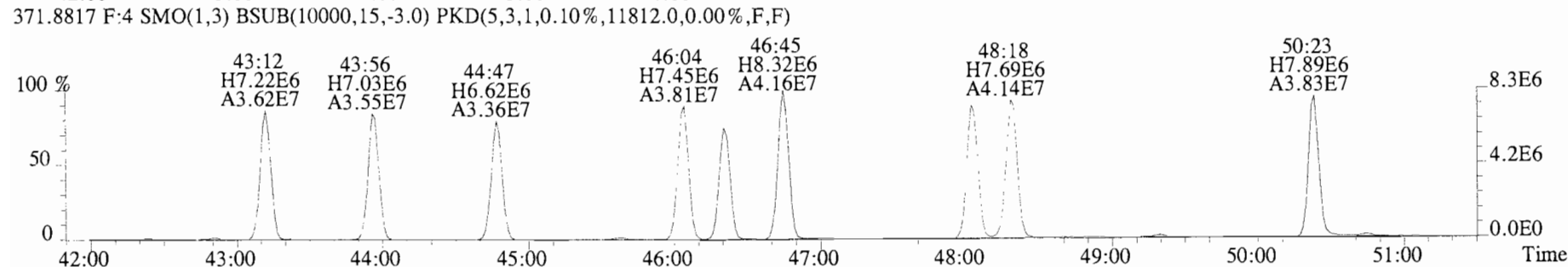
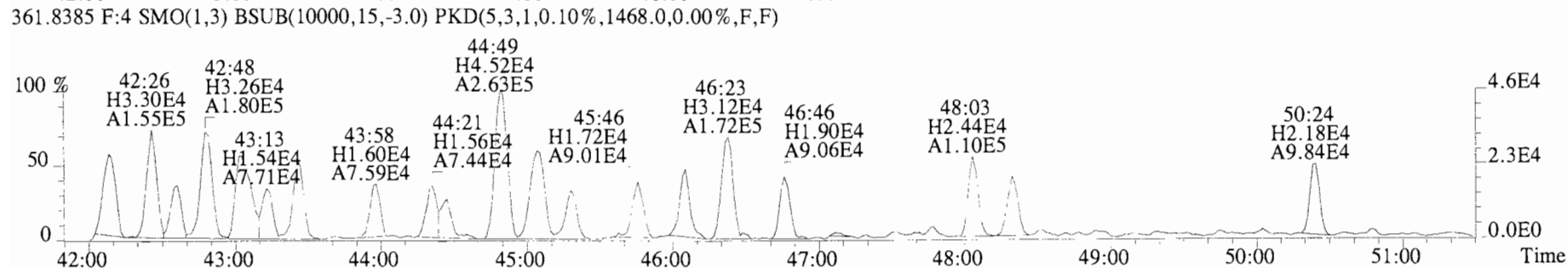
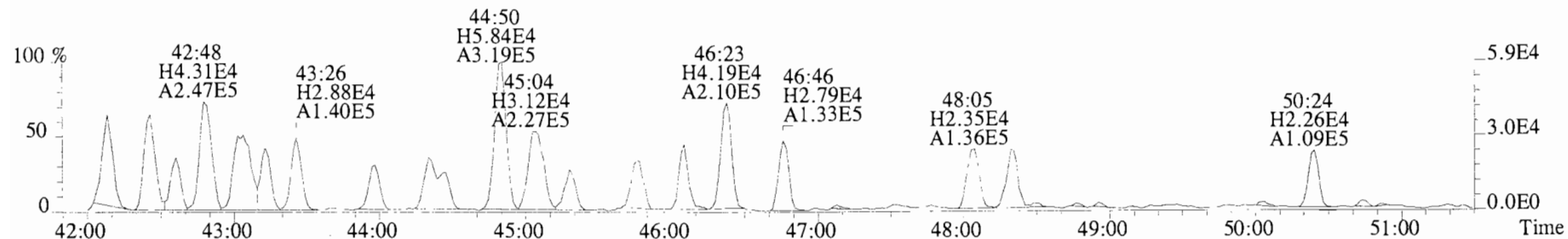
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1504.0,0.00%,F,F)



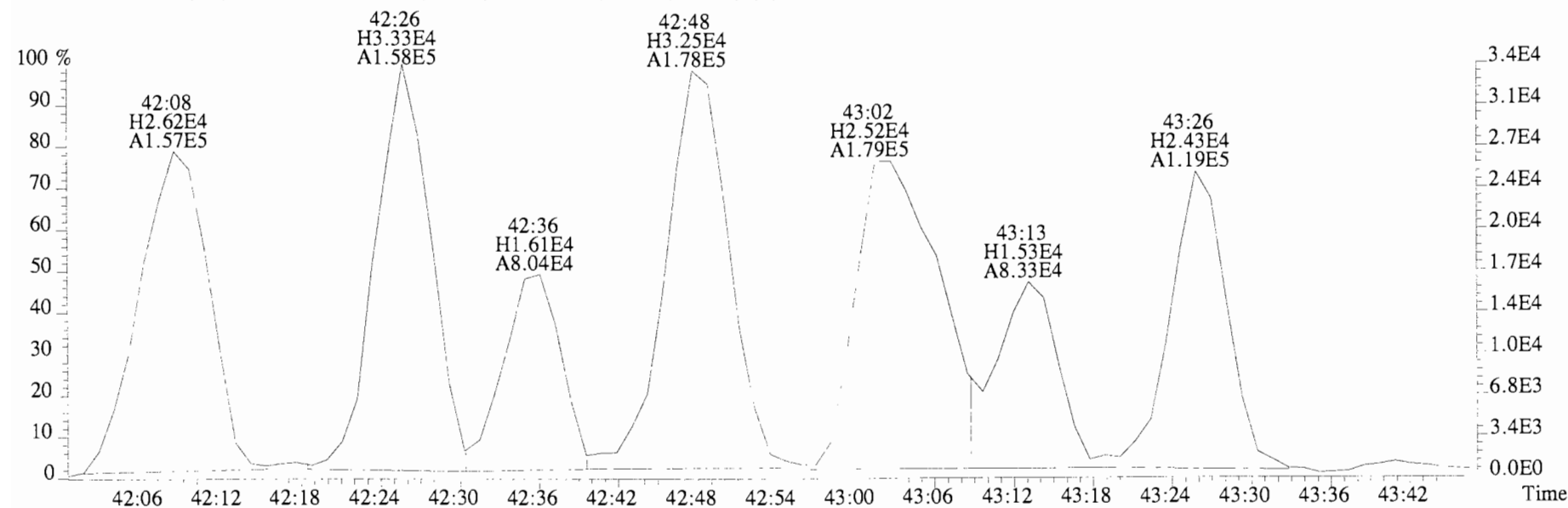
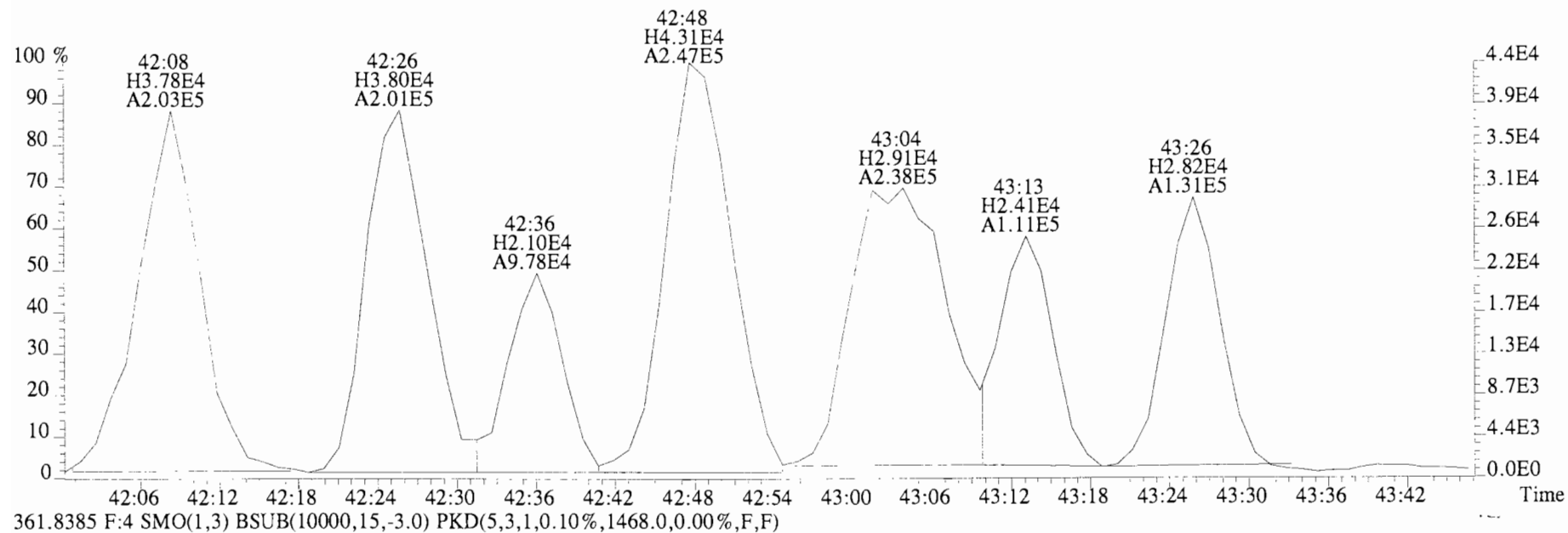
File:140620E1 #1-767 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1504.0,0.00%,F,F)



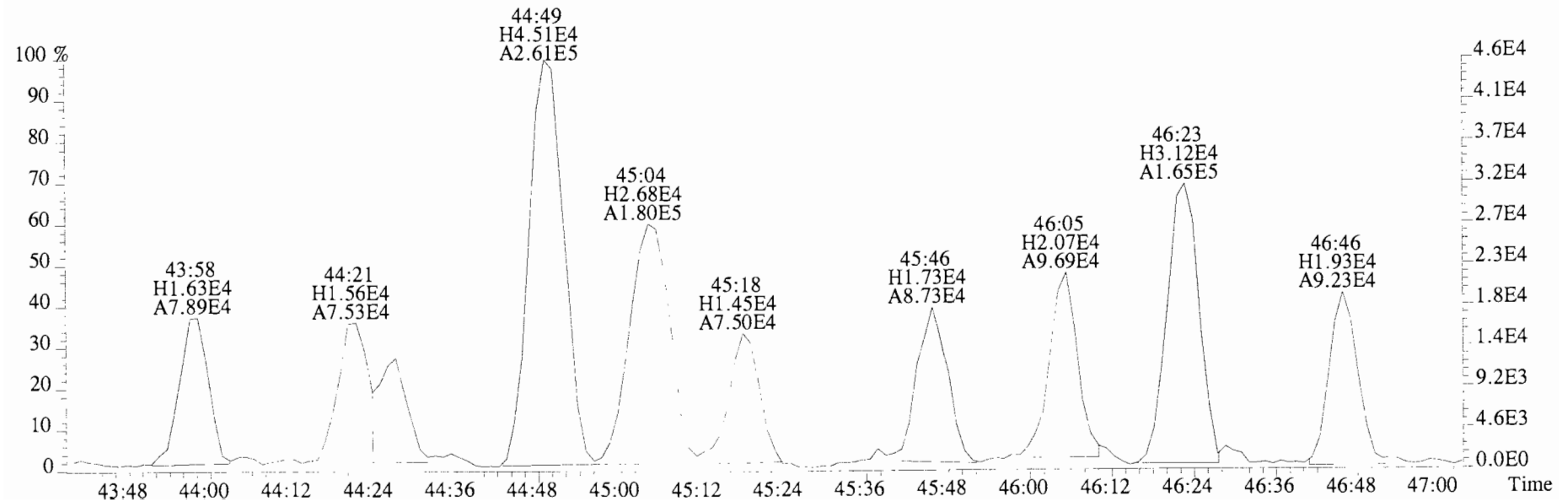
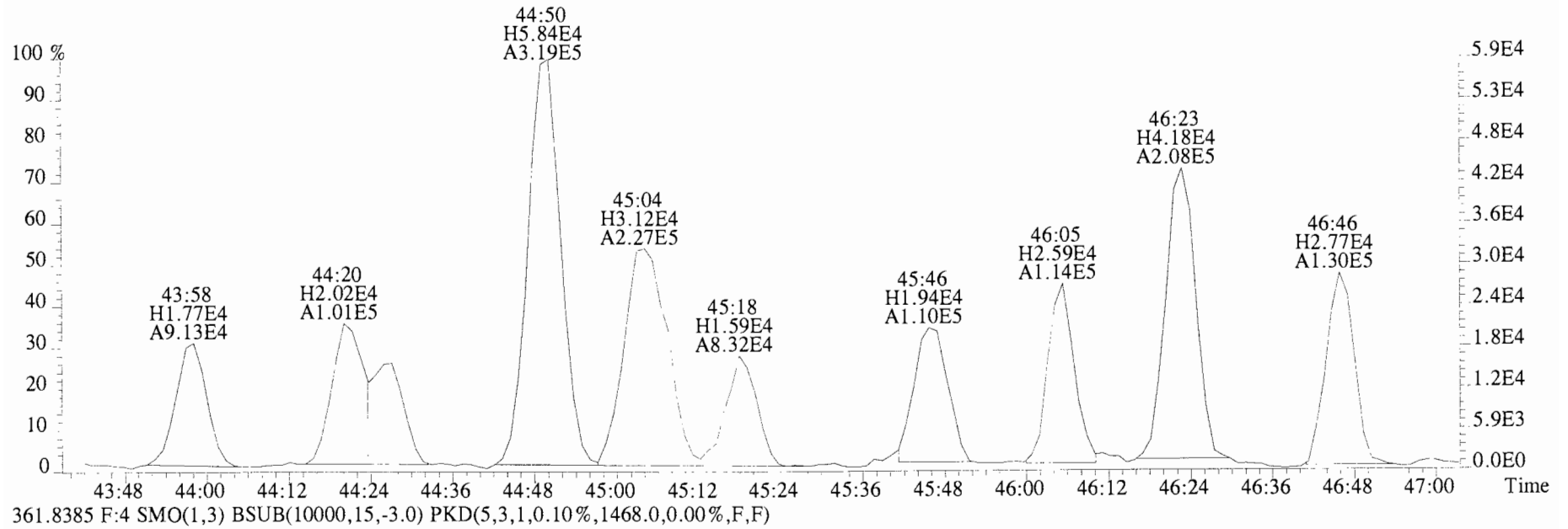
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1480.0,0.00%,F,F)



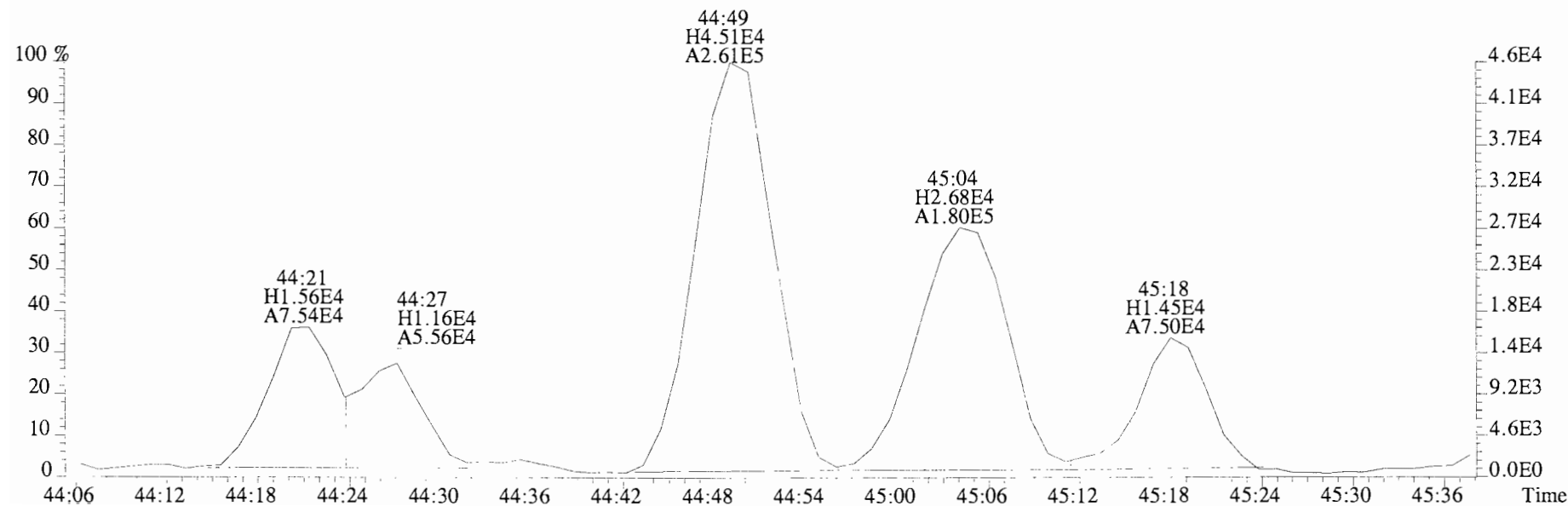
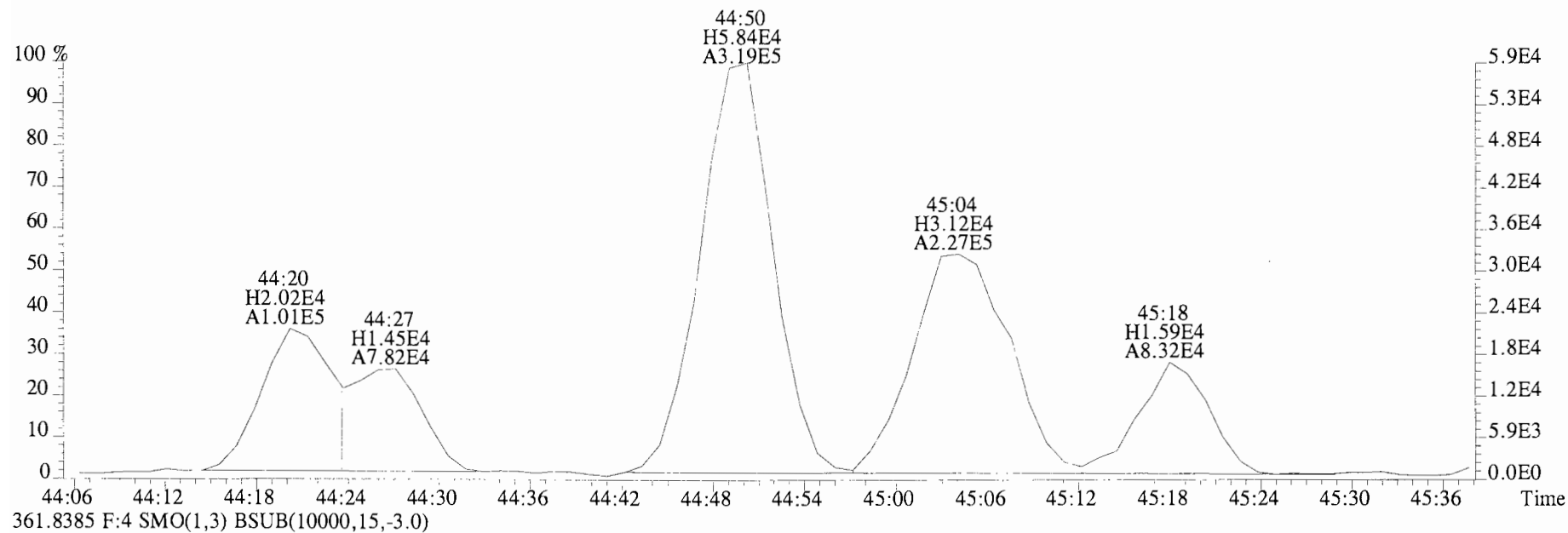
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
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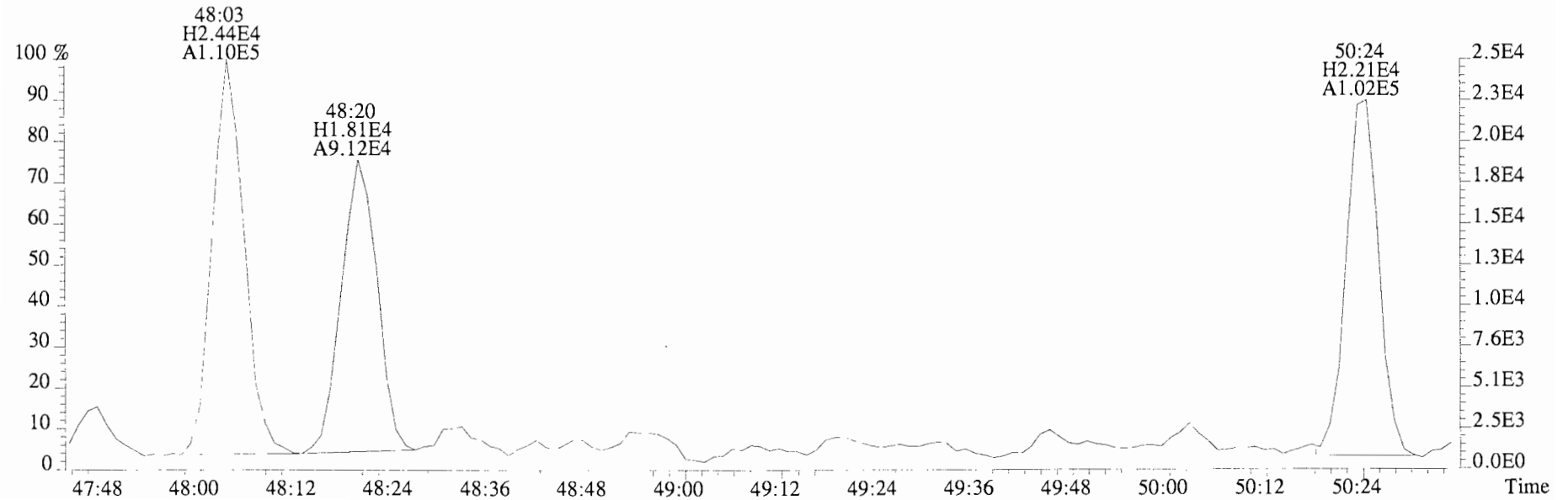
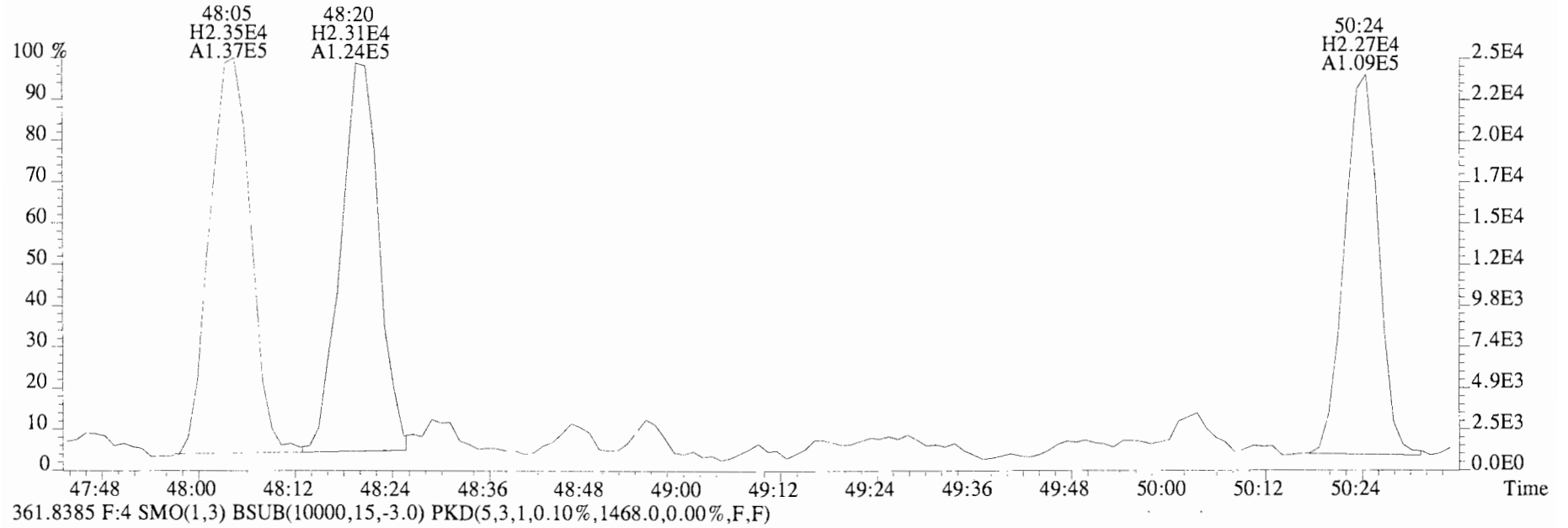
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1480.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0)

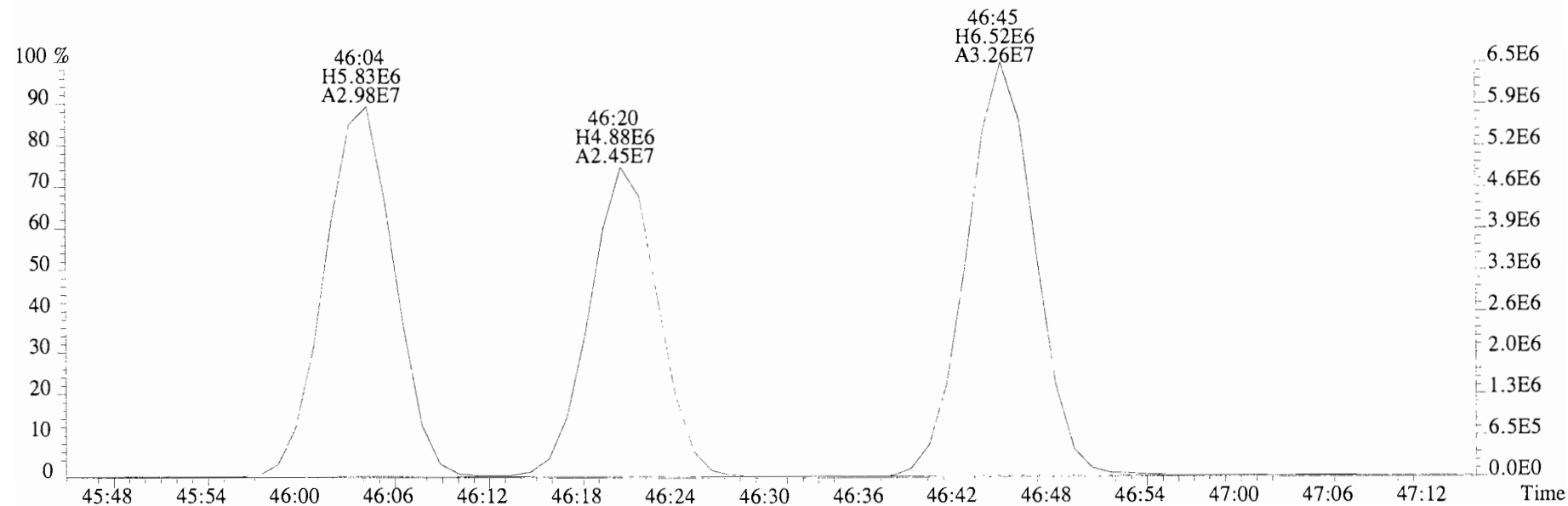
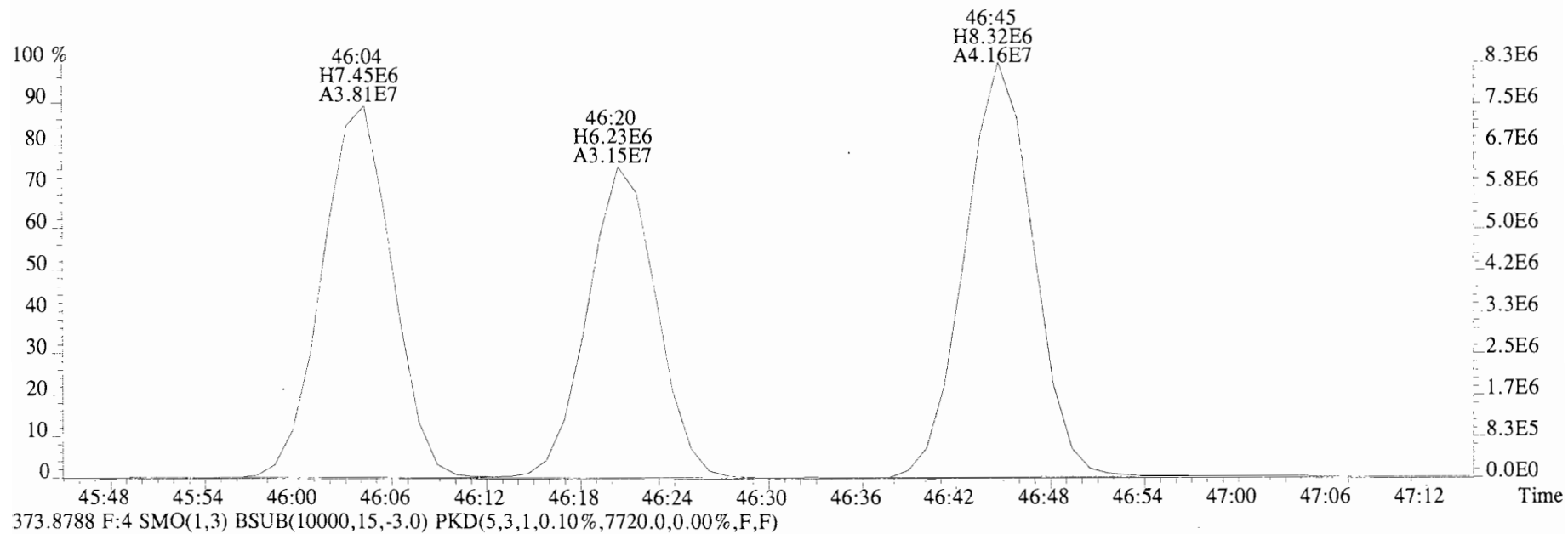


File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1480.0,0.00%,F,F)

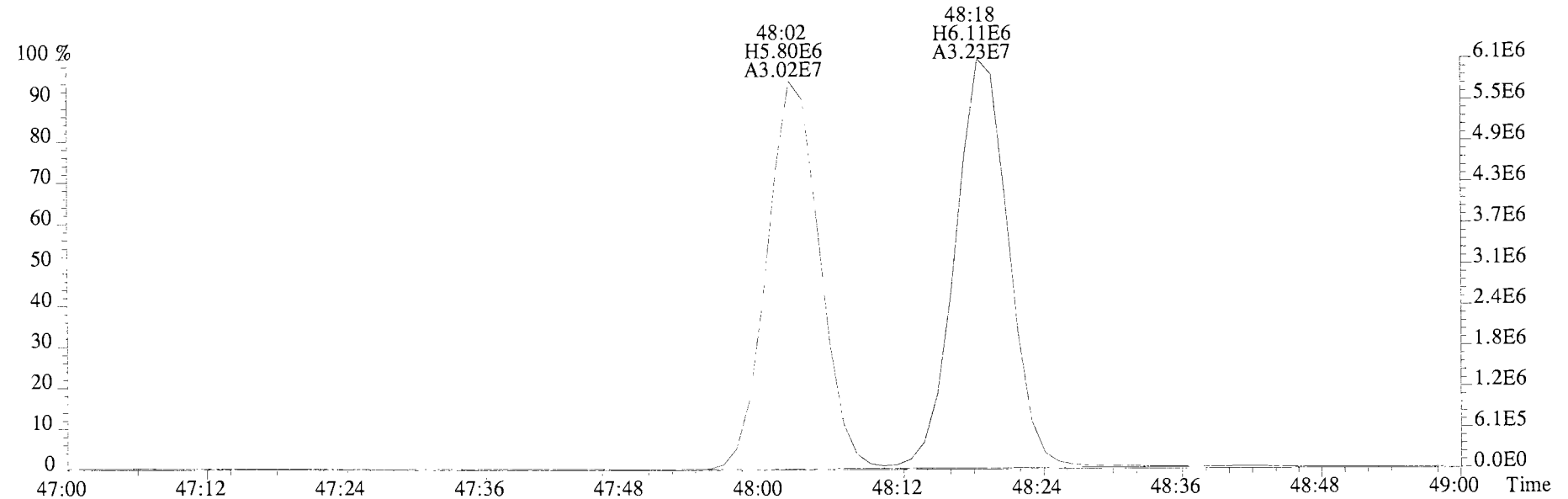
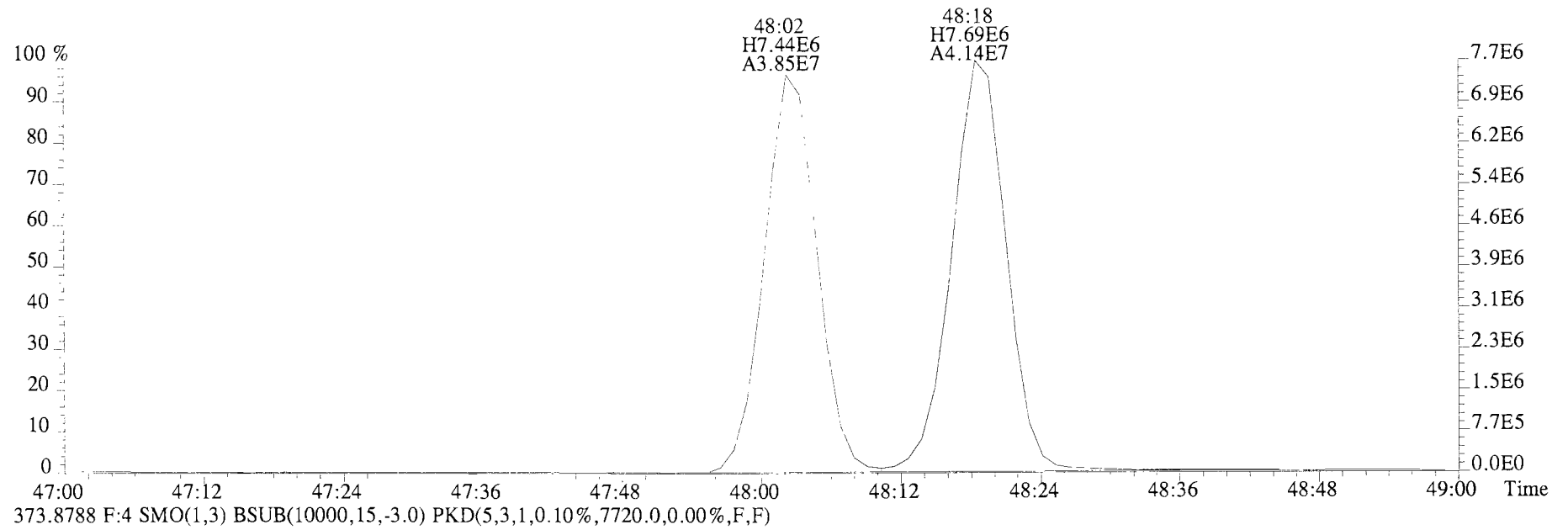




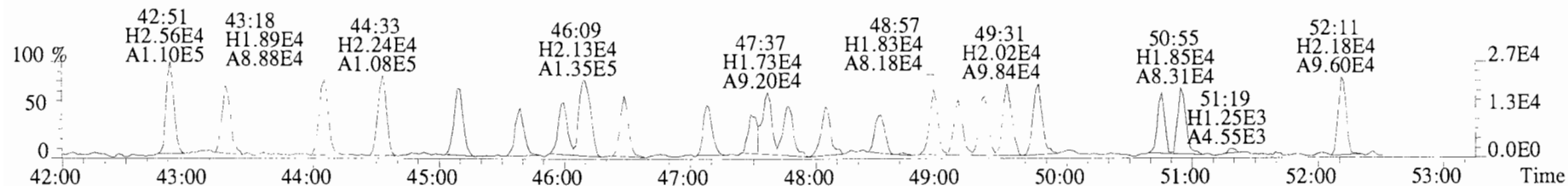
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,11812.0,0.00%,F,F)



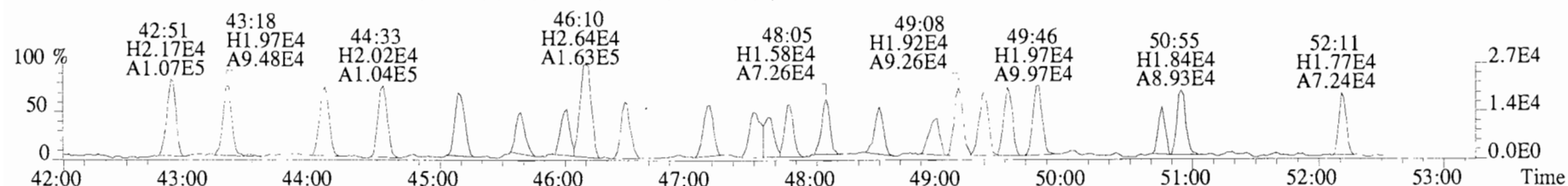
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,11812.0,0.00%,F,F)



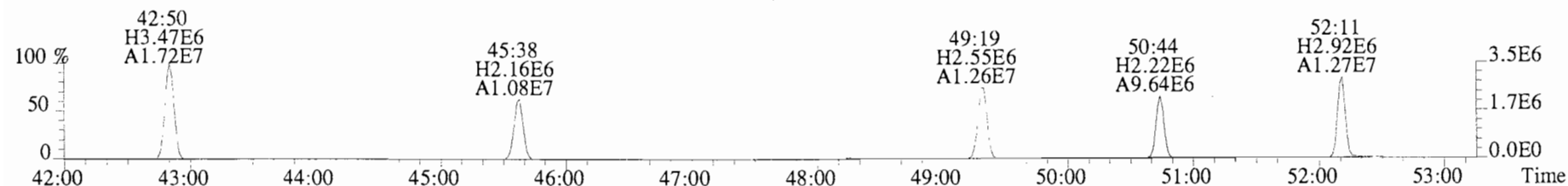
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1304.0,0.00%,F,F)



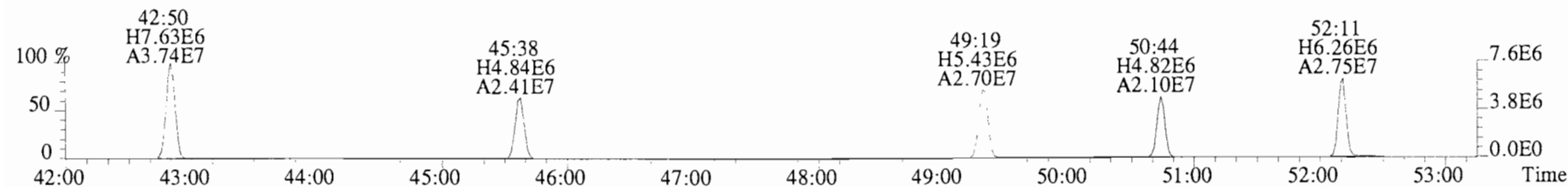
395.7995 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1460.0,0.00%,F,F)



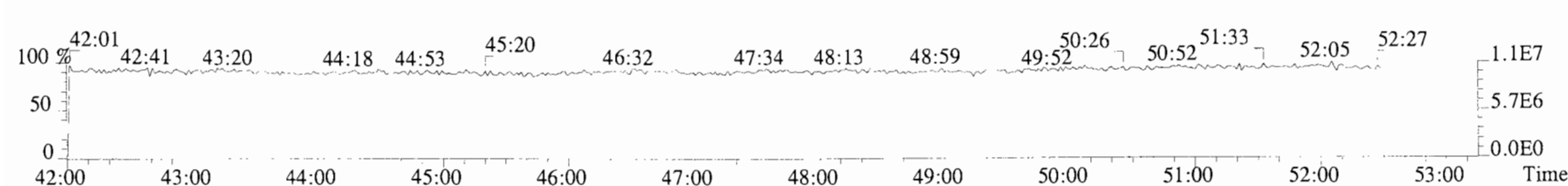
403.8457 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2460.0,0.00%,F,F)



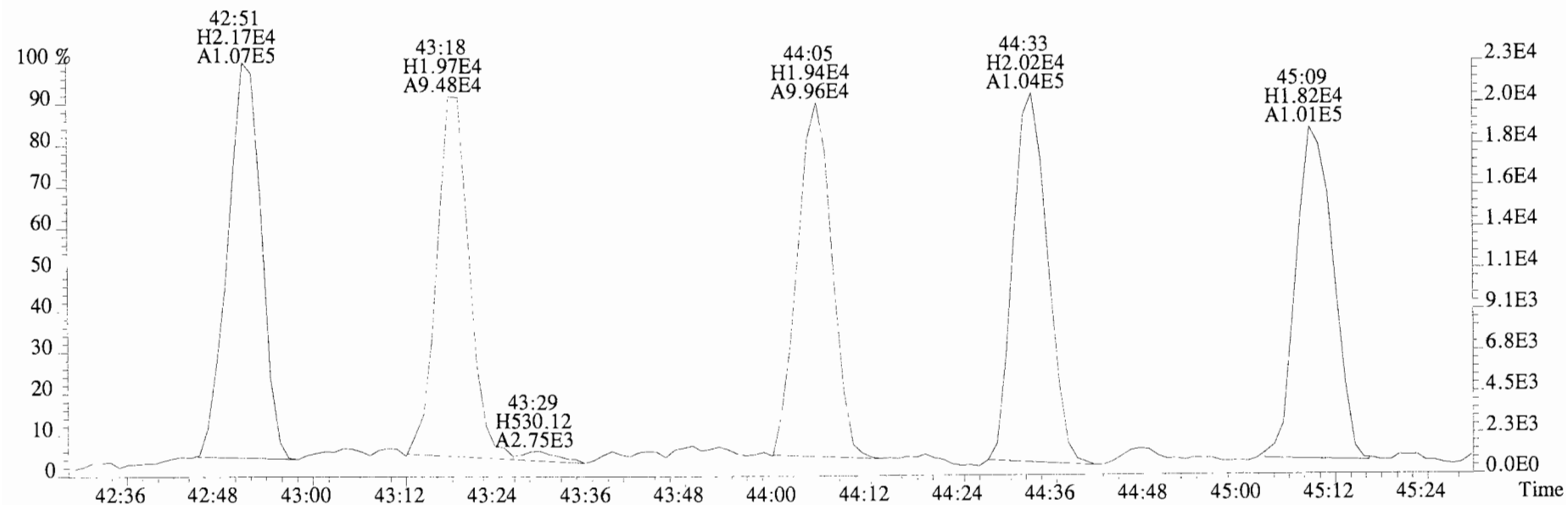
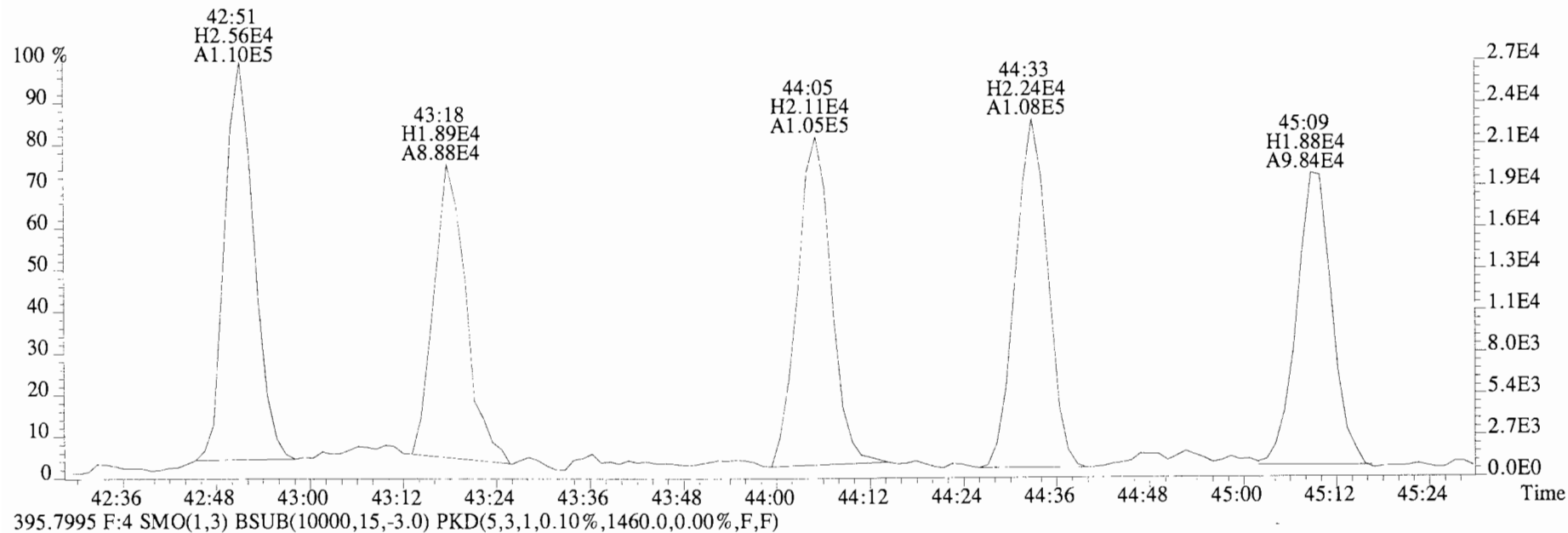
405.8428 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7108.0,0.00%,F,F)



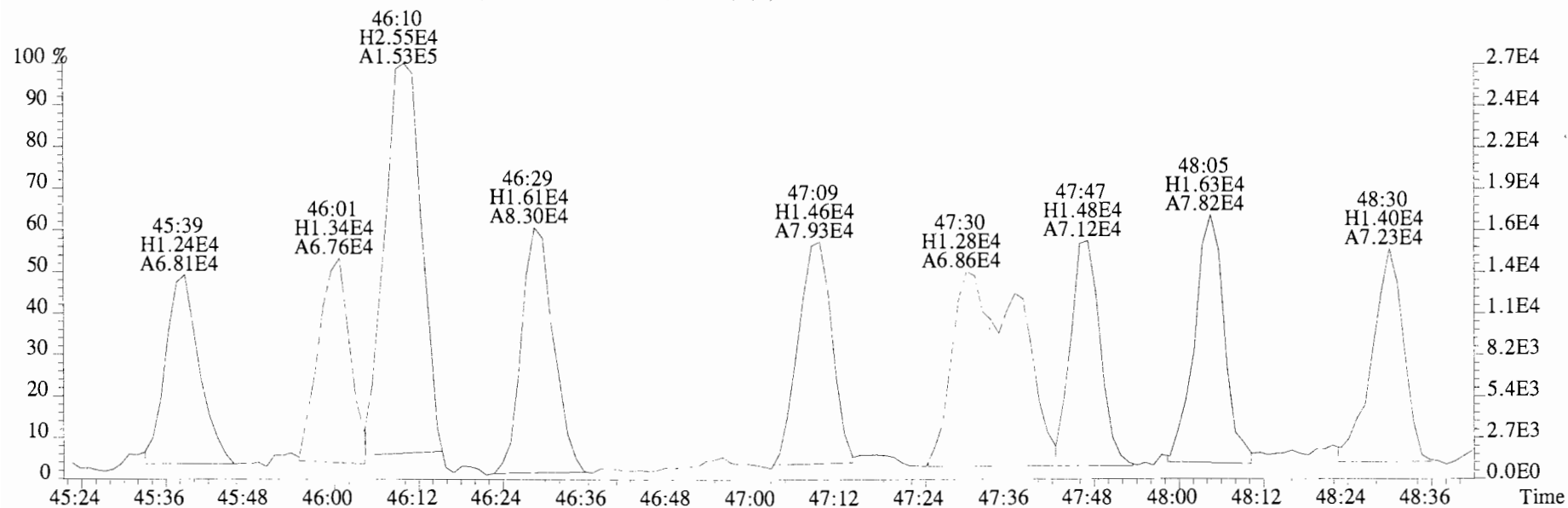
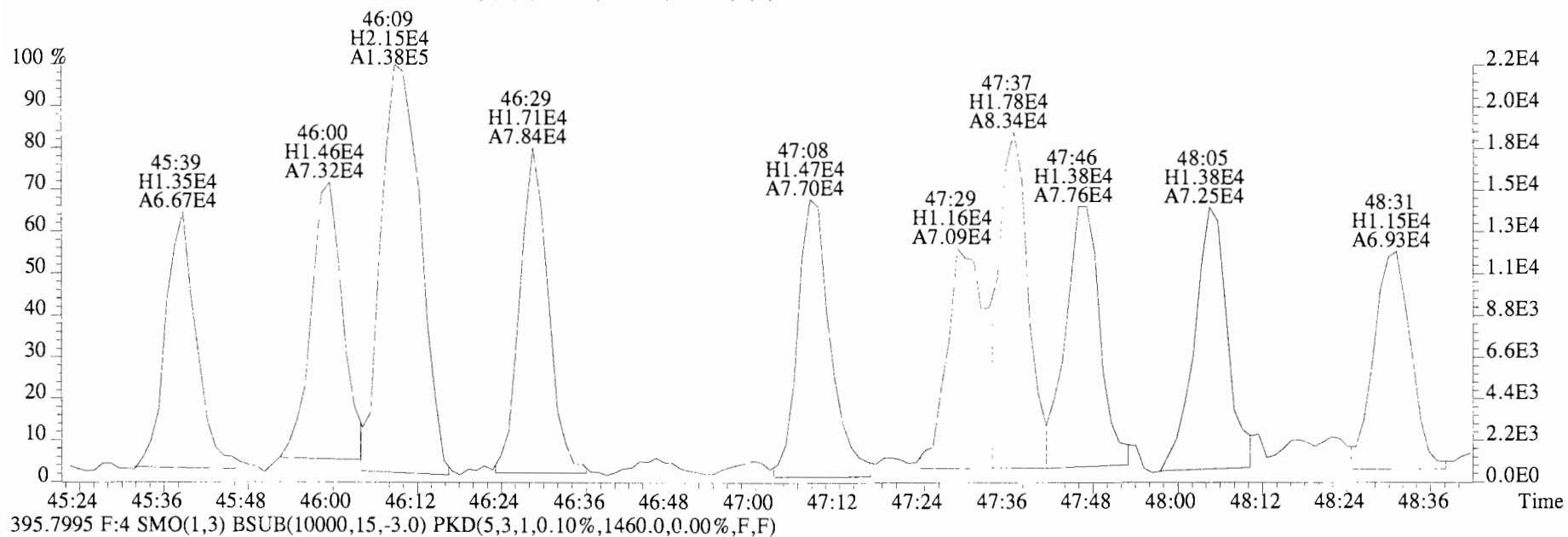
380.9760 F:4



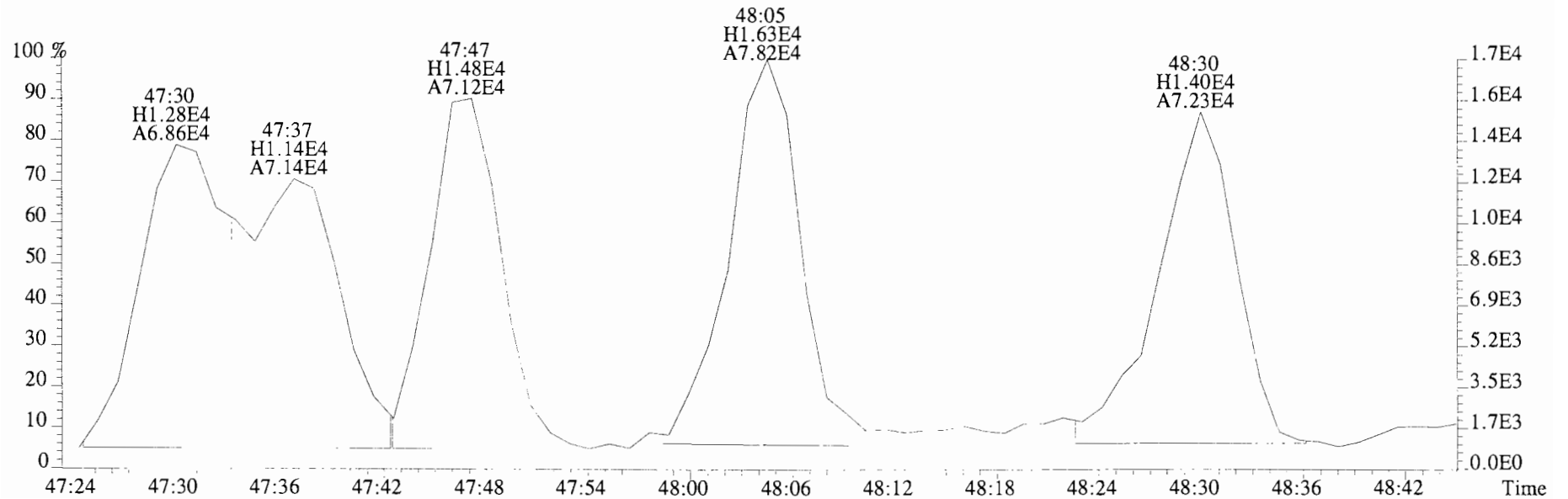
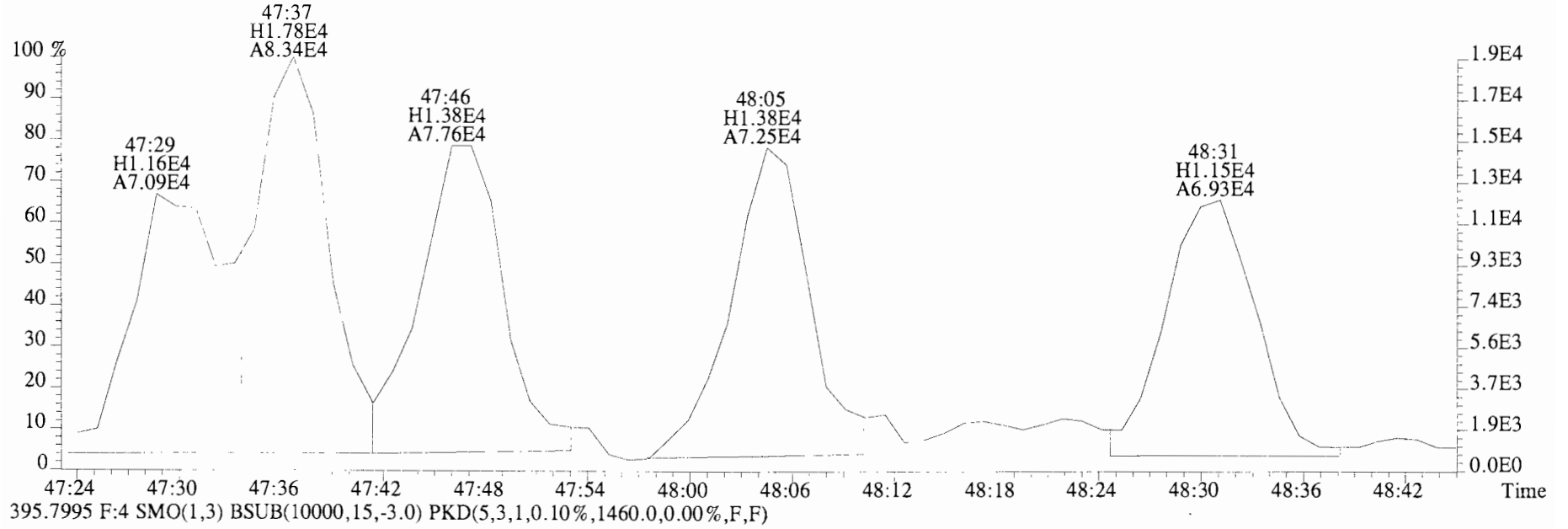
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1304.0,0.00%,F,F)



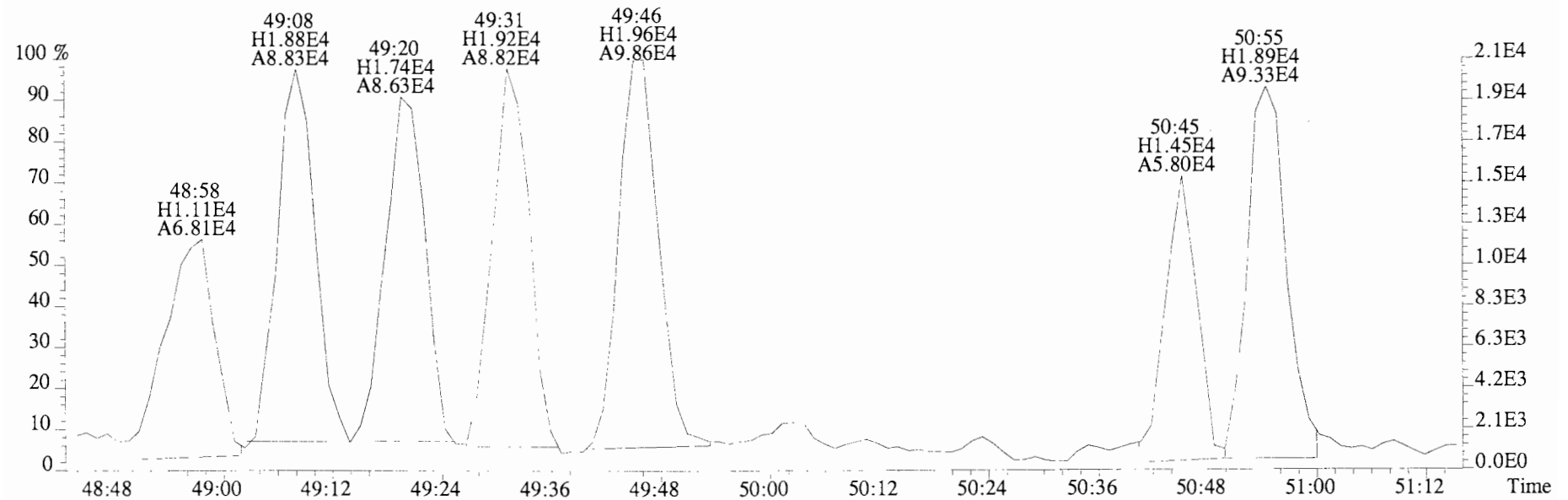
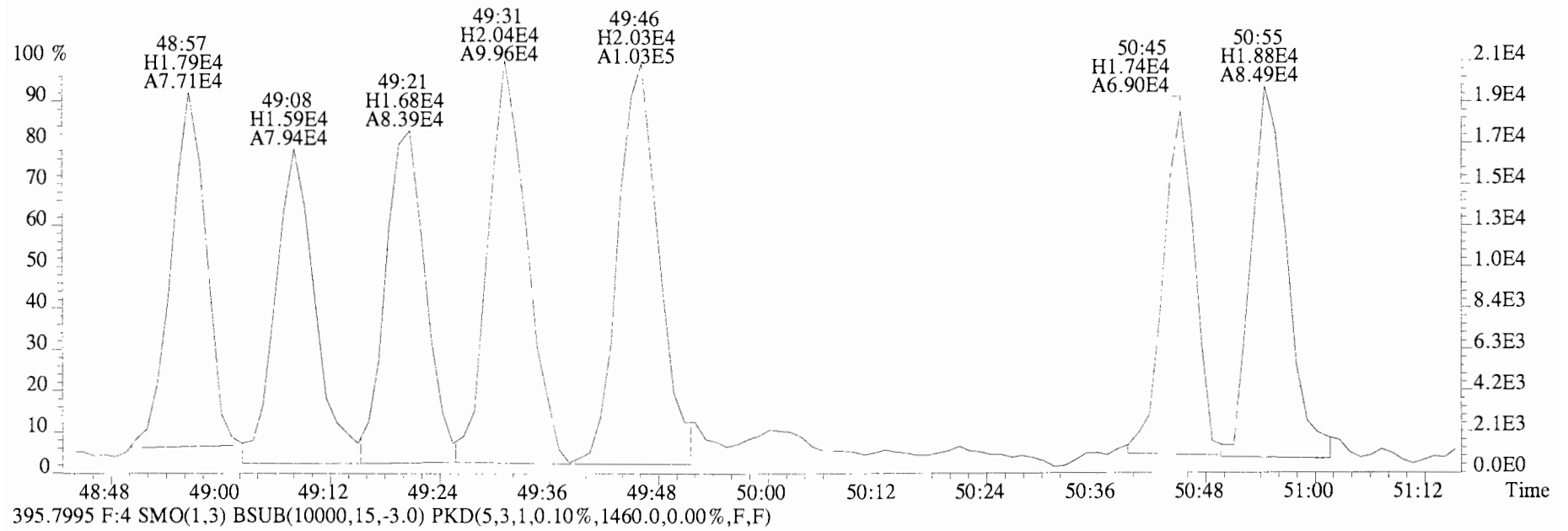
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
 393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1304.0,0.00%,F,F)



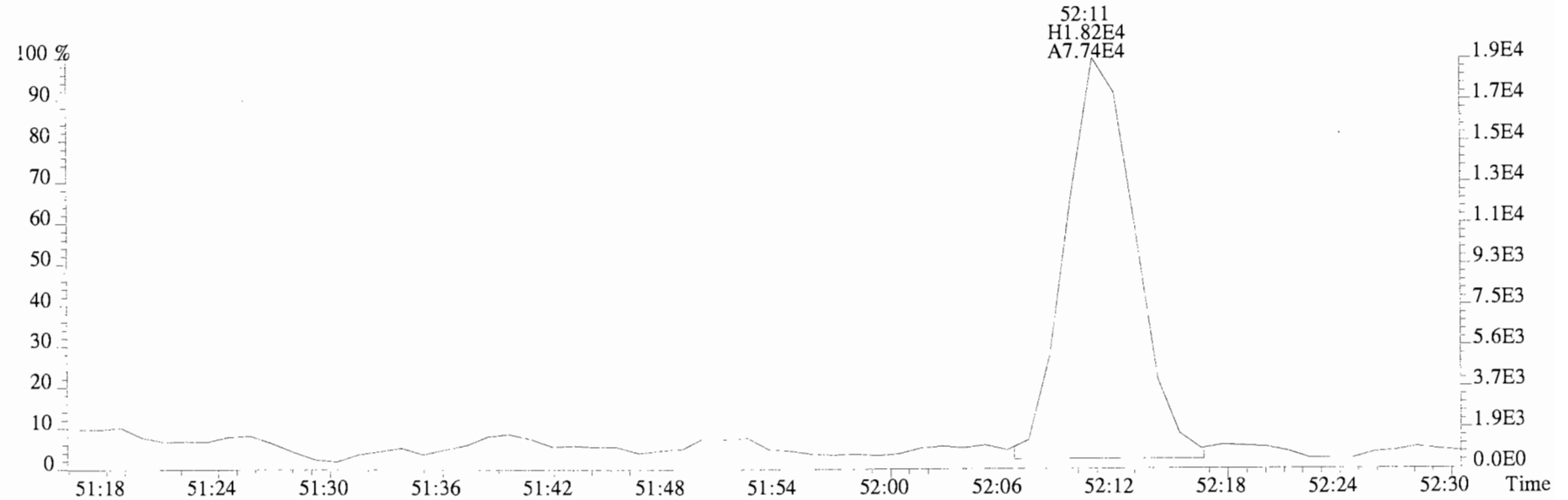
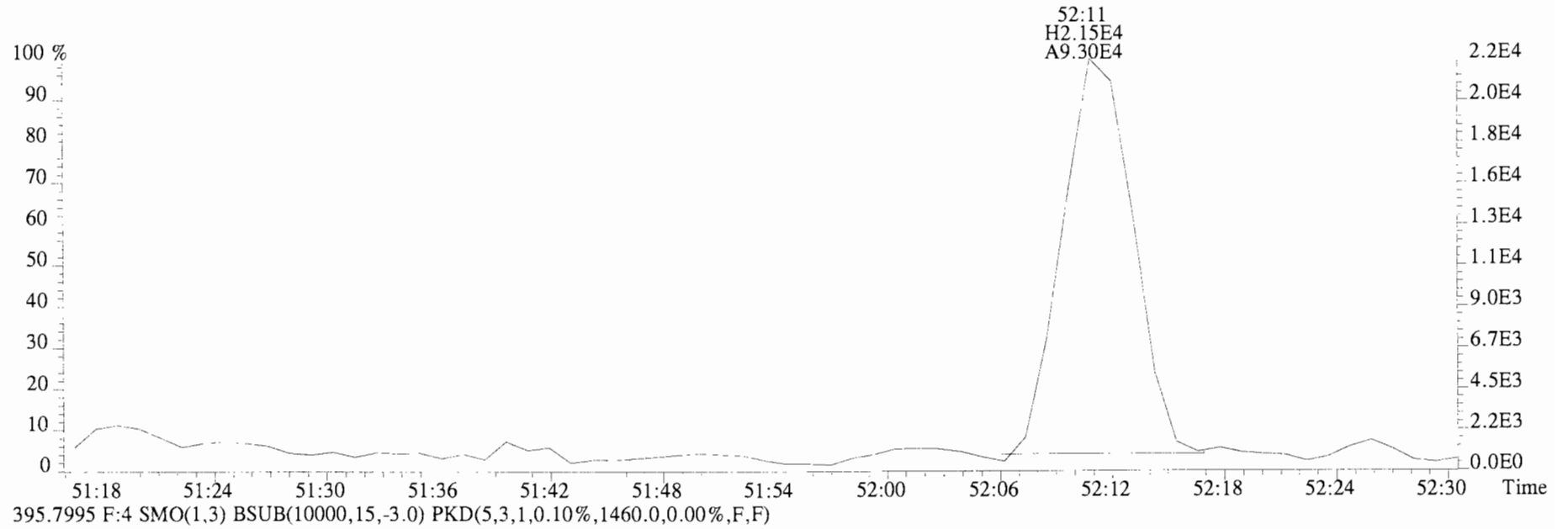
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1304.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1304.0,0.00%,F,F)

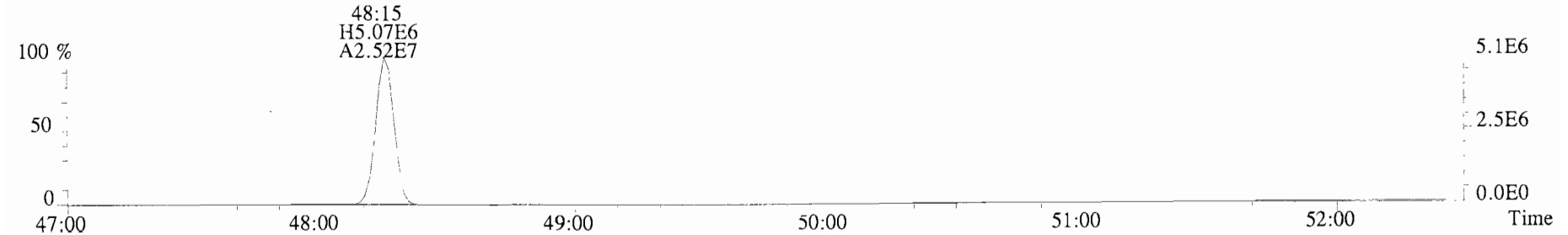
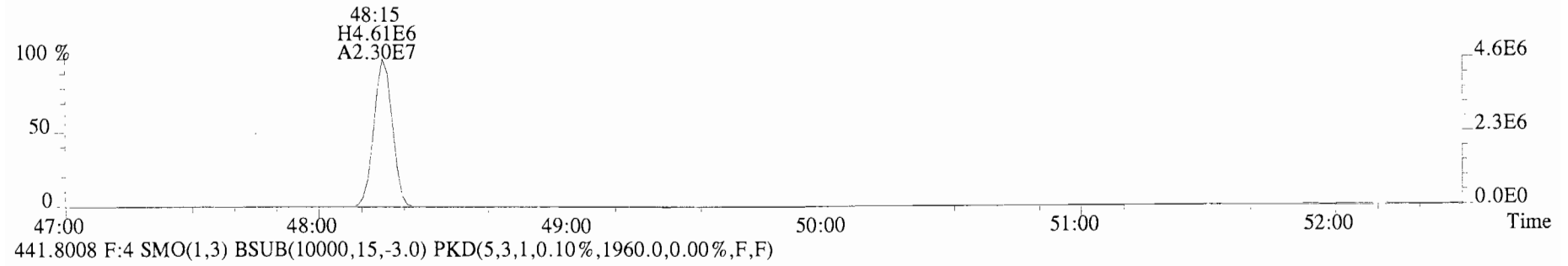
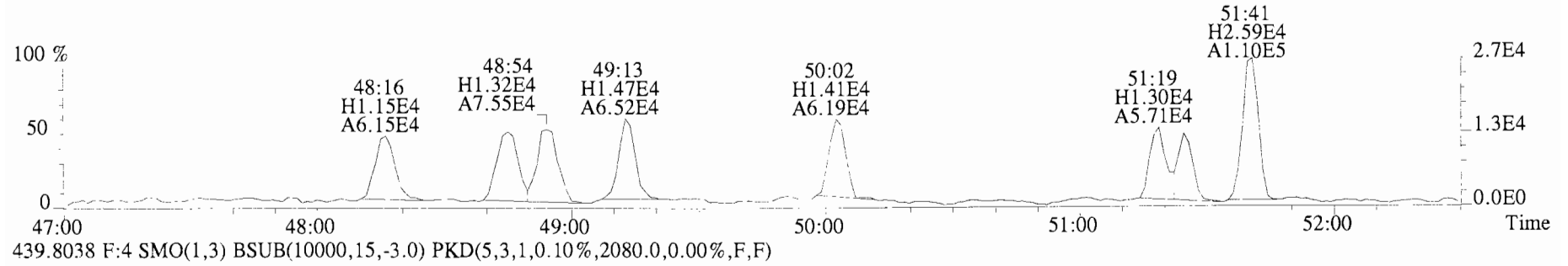
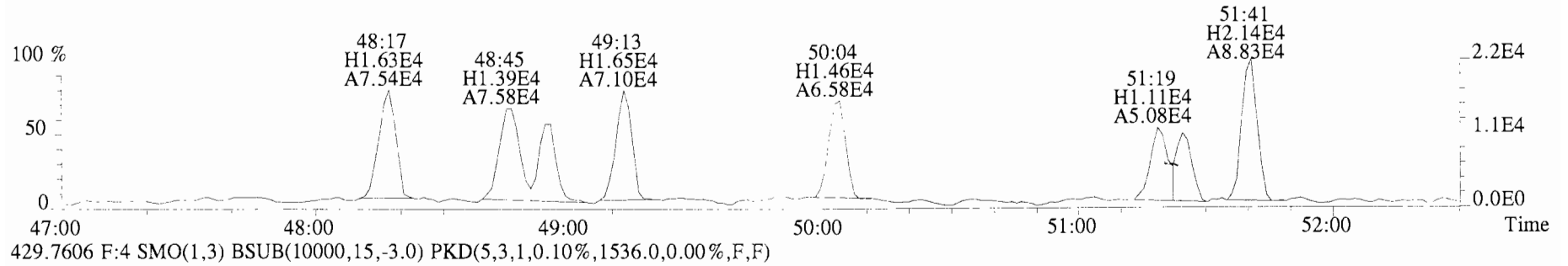


File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1304.0,0.00%,F,F)

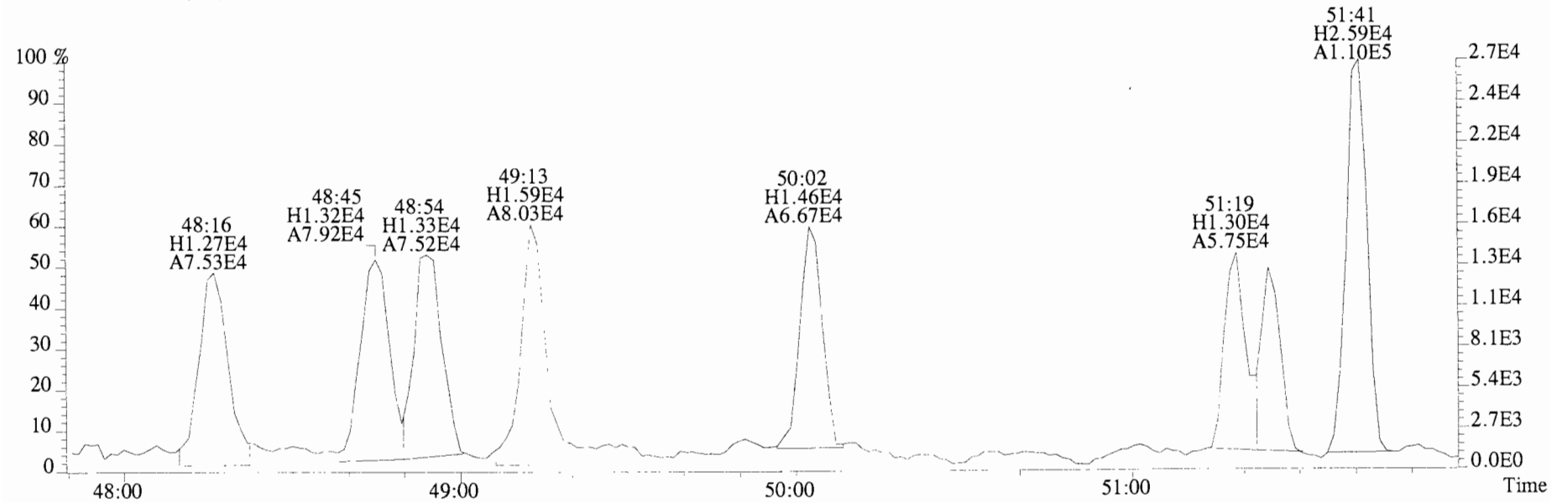
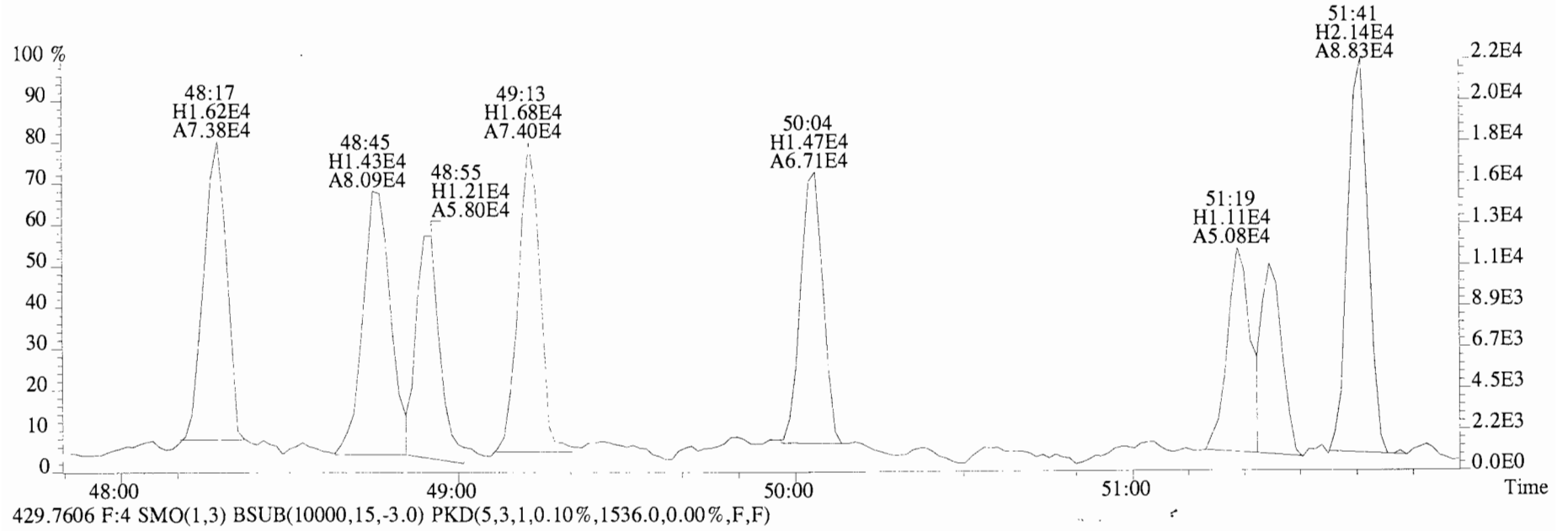




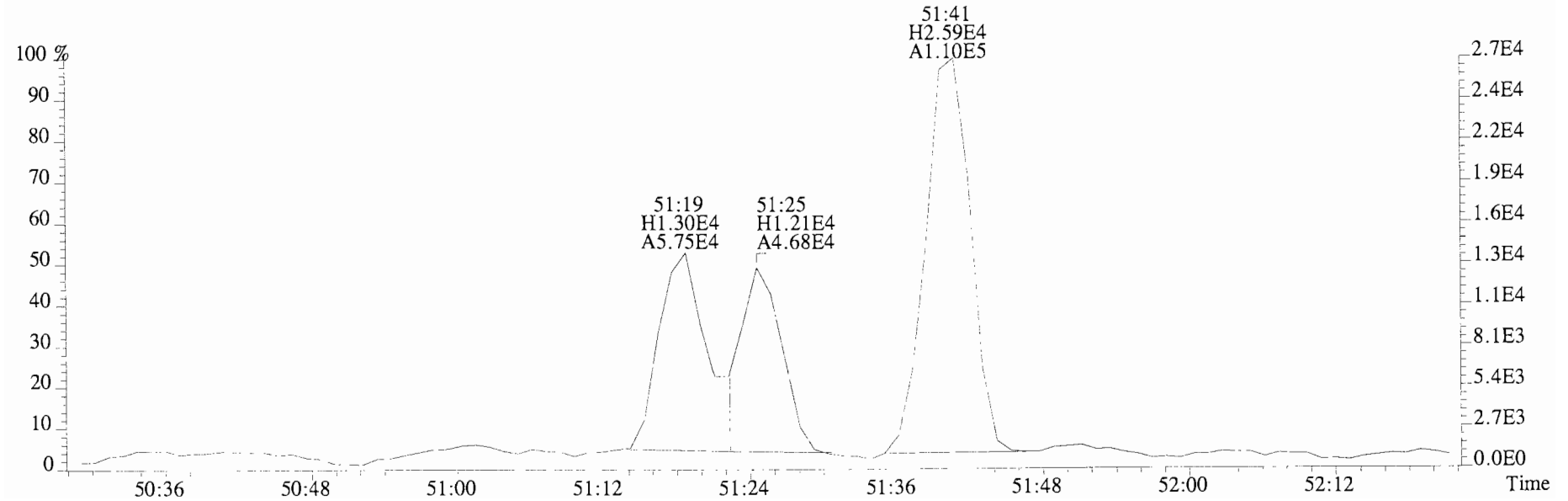
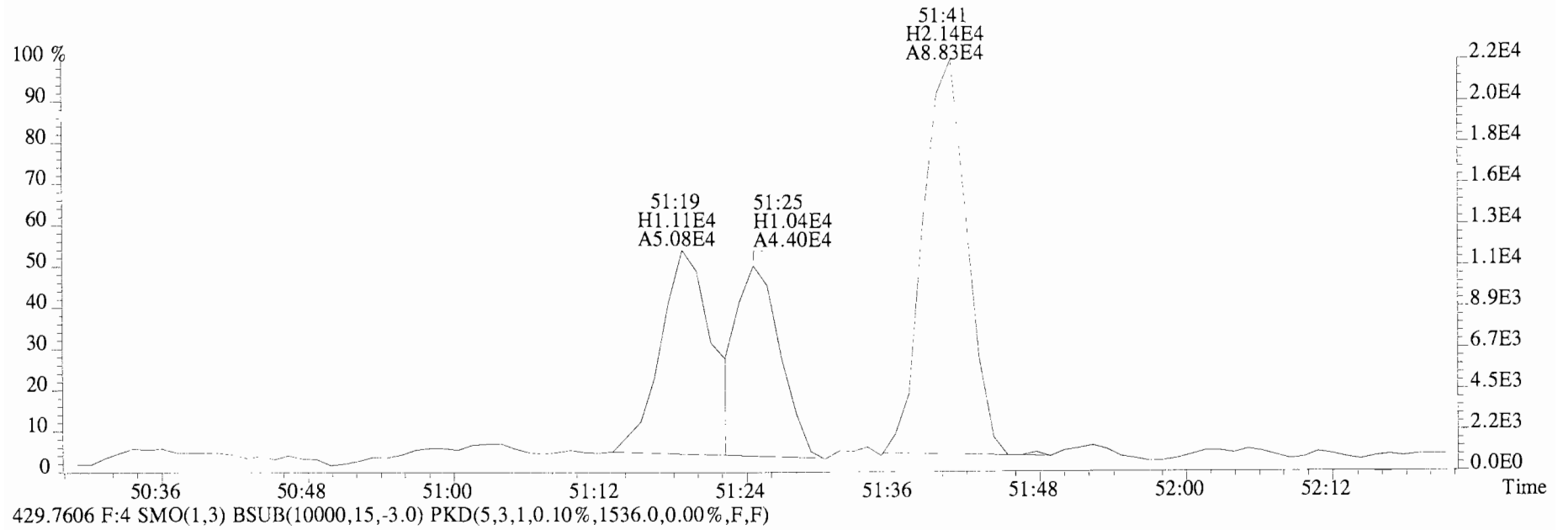
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1424.0,0.00%,F,F)



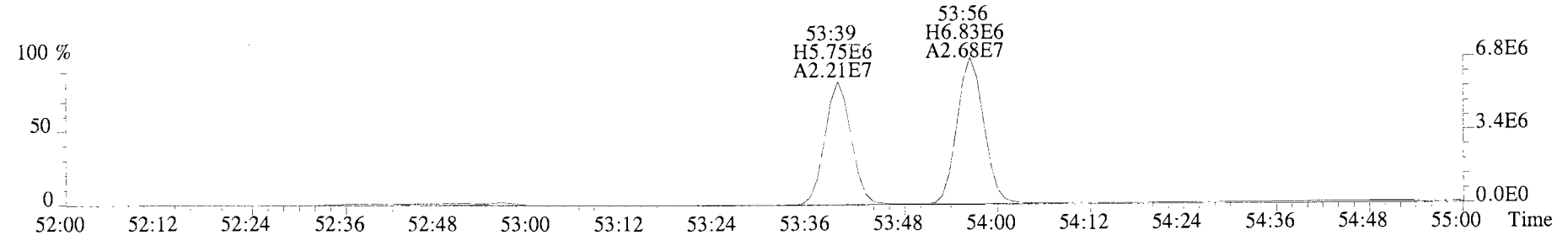
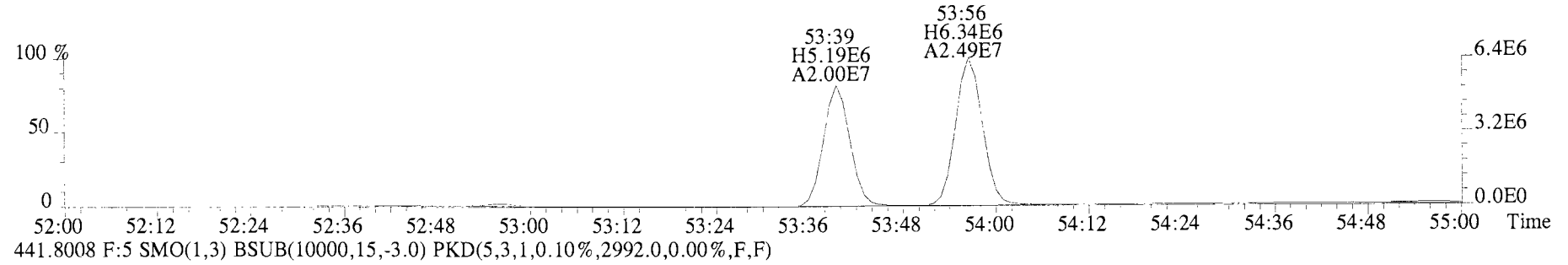
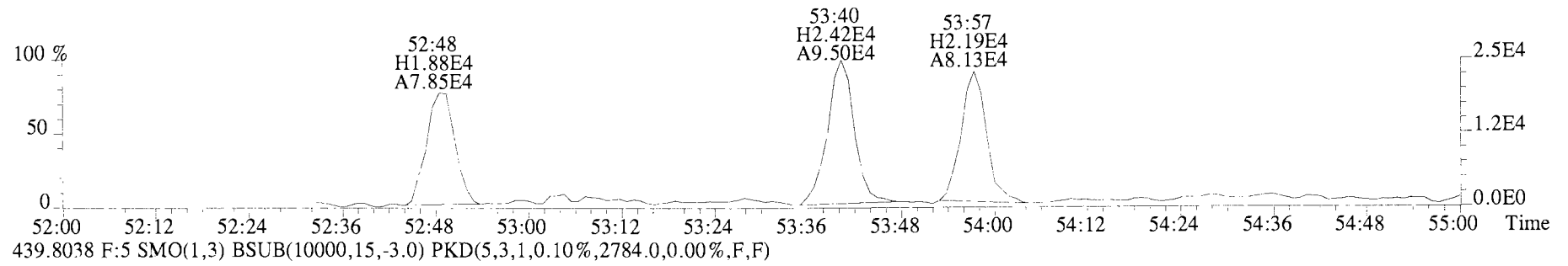
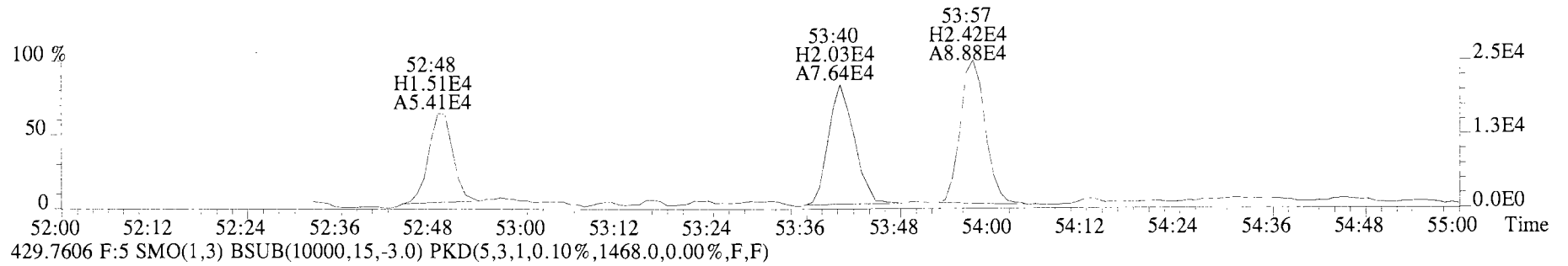
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1424.0,0.00%,F,F)



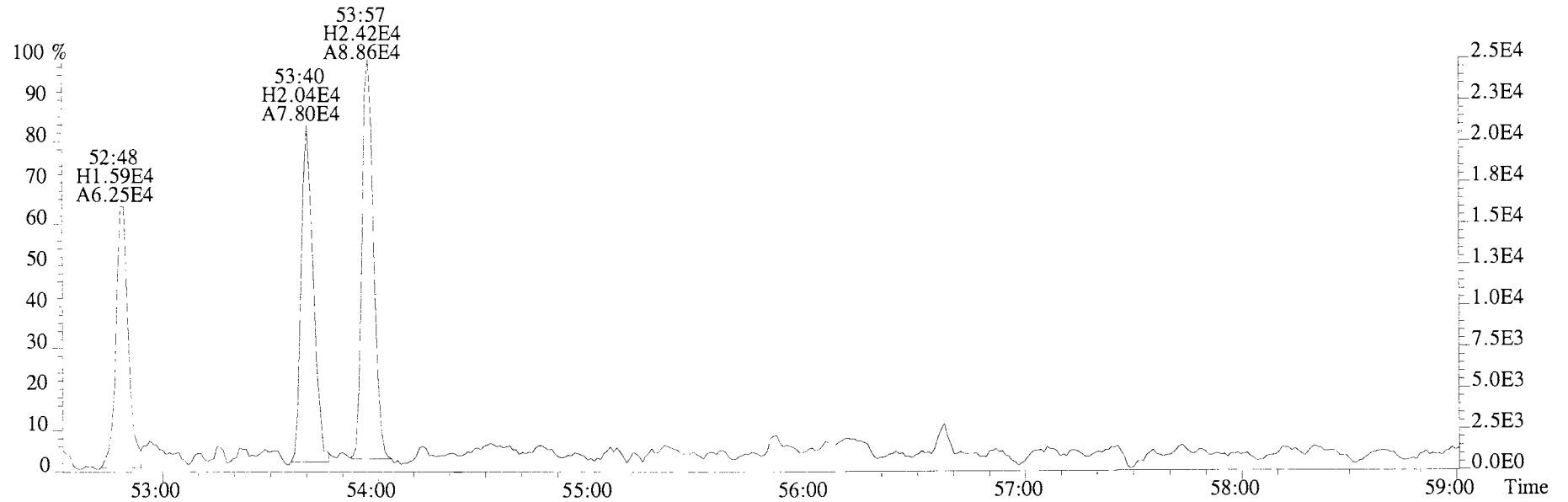
File:140620E1 #1-546 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1424.0,0.00%,F,F)



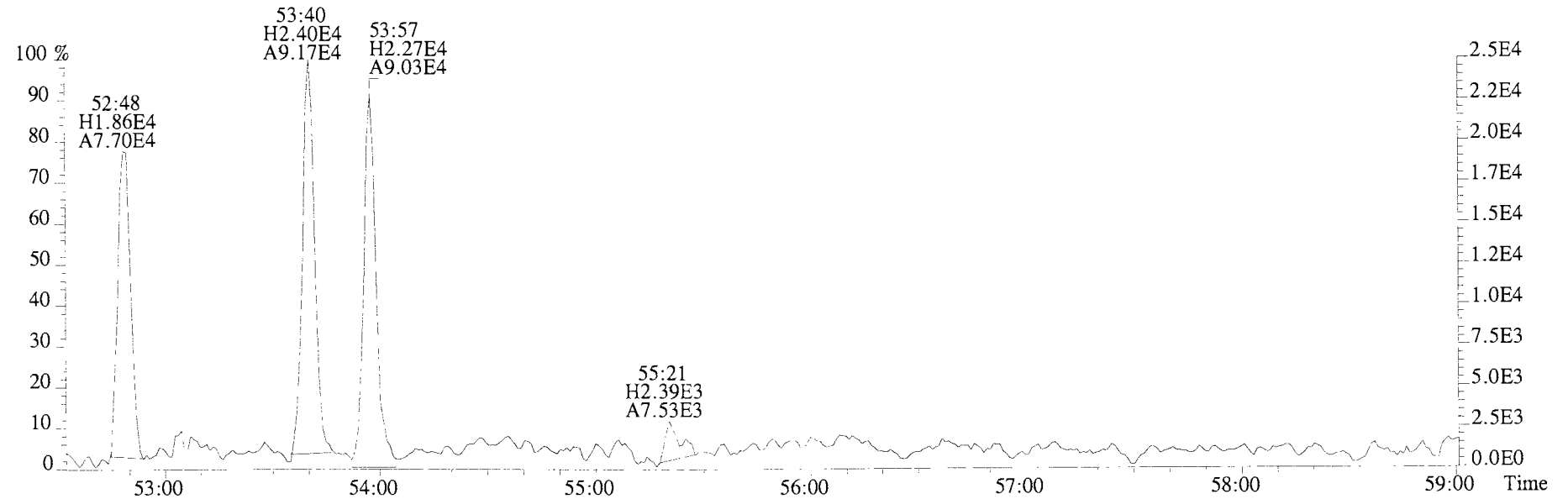
File:140620E1 #1-435 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
427.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1432.0,0.00%,F,F)



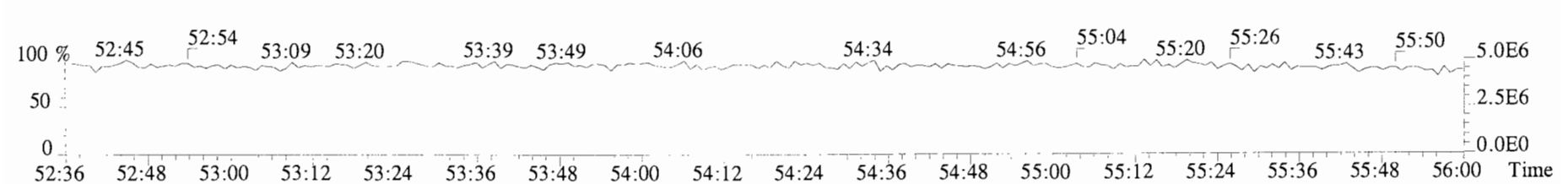
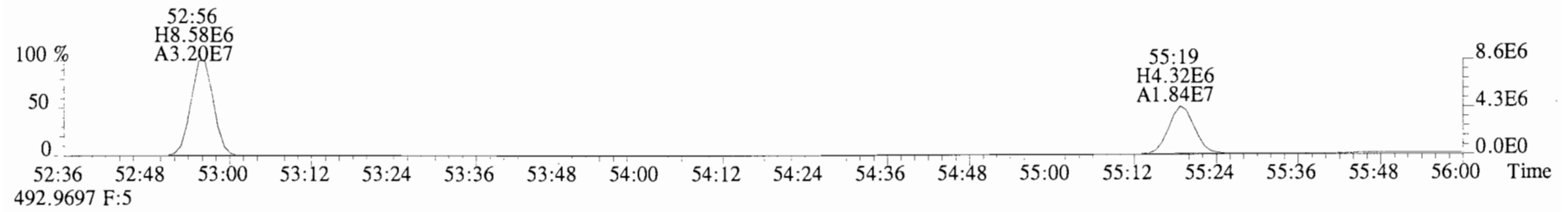
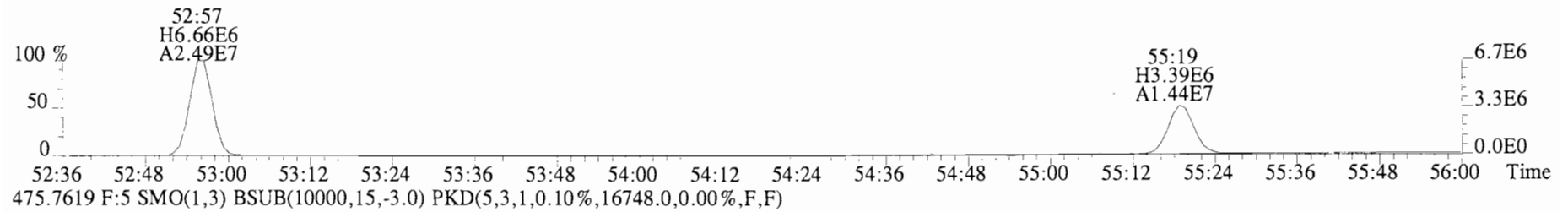
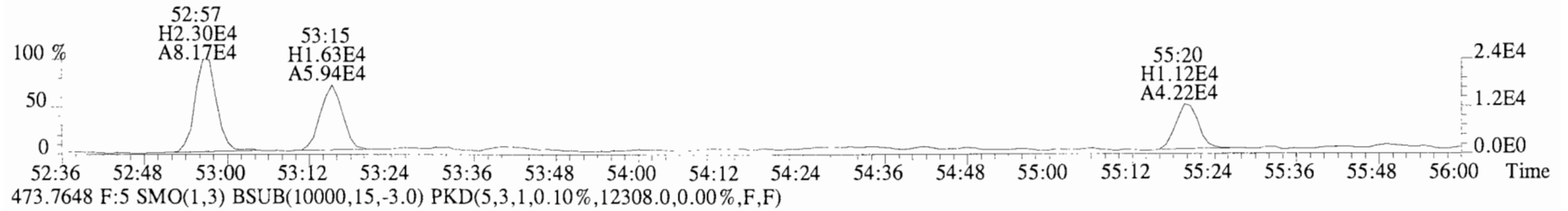
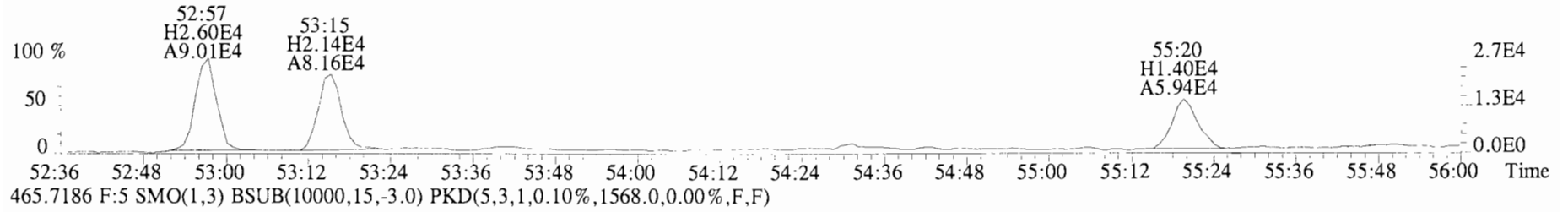
File:140620E1 #1-435 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
427.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1432.0,0.00%,F,F)



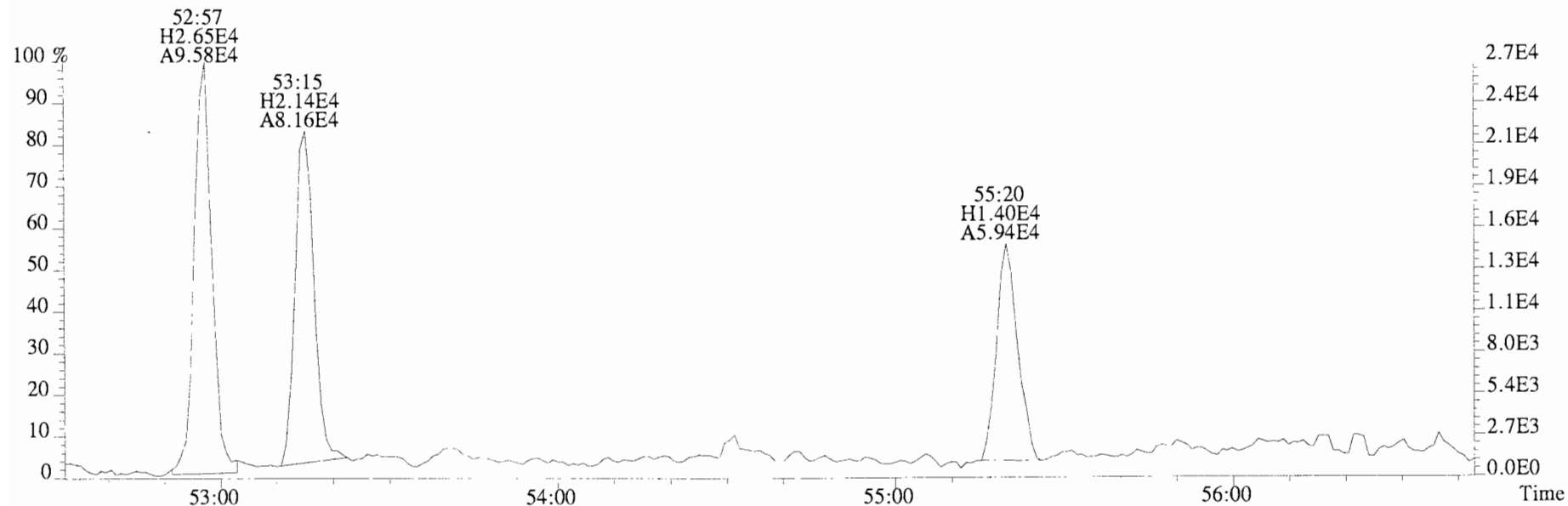
429.7606 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1468.0,0.00%,F,F)



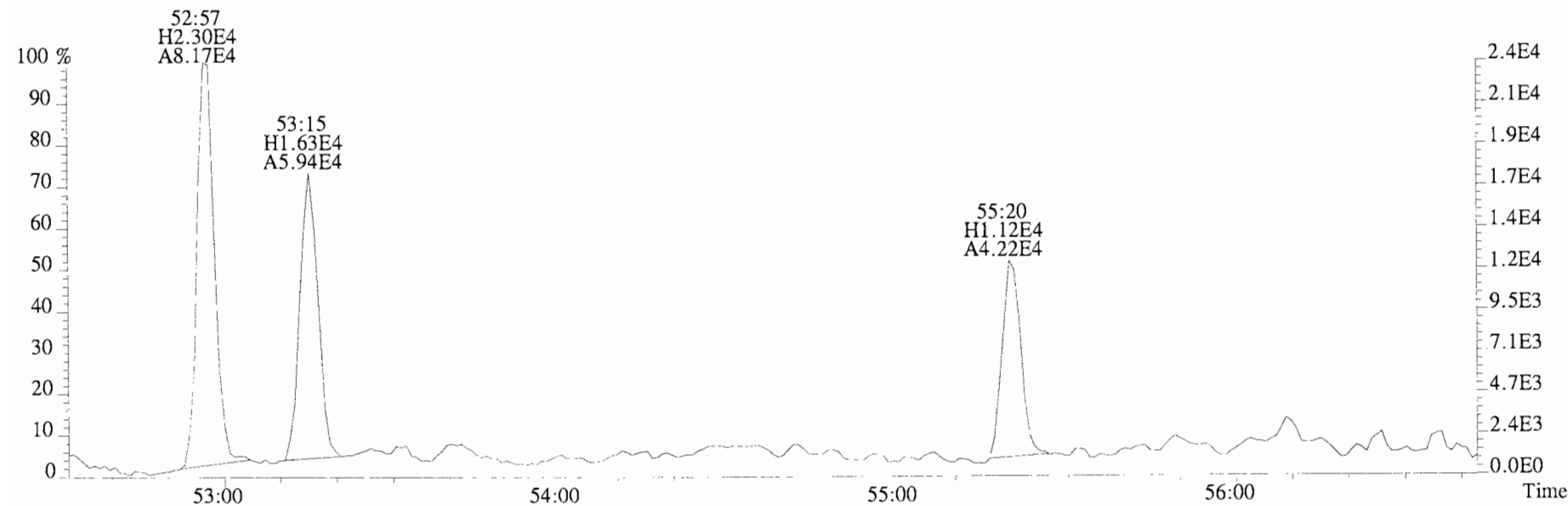
File:140620E1 #1-435 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1540.0,0.00%,F,F)



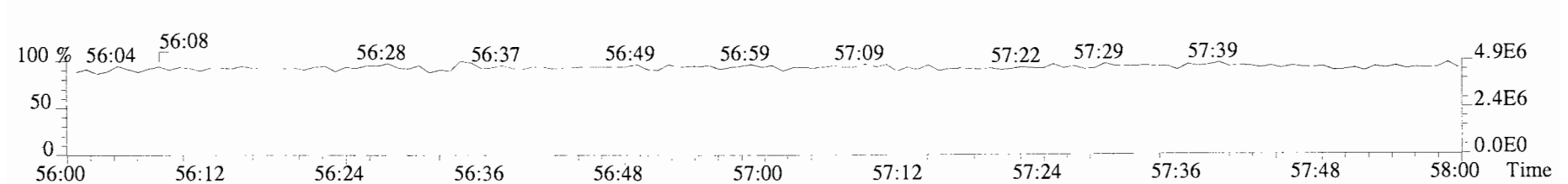
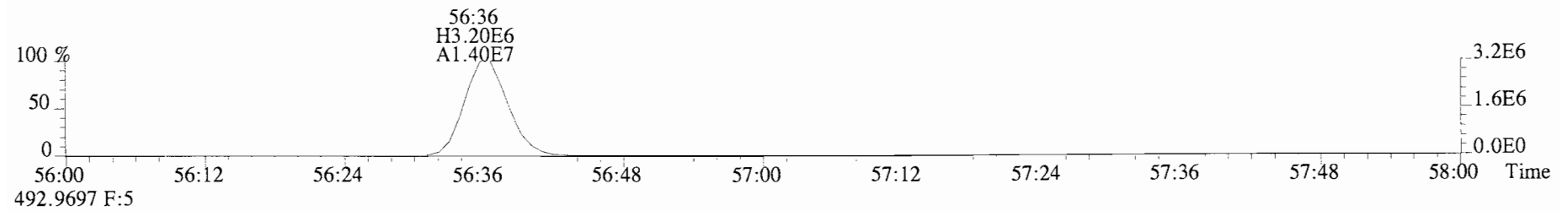
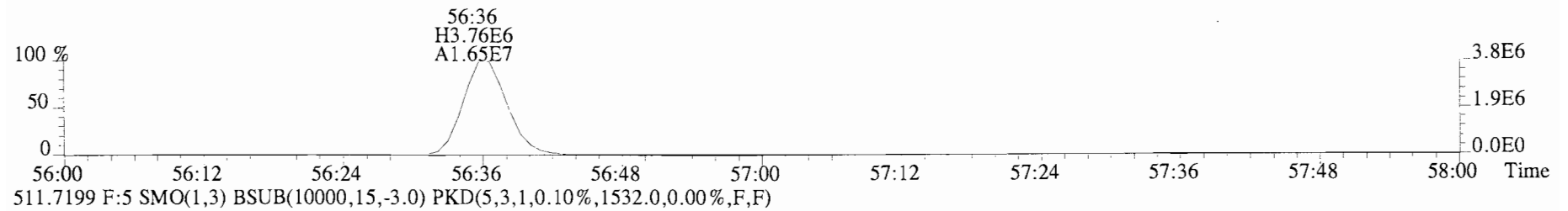
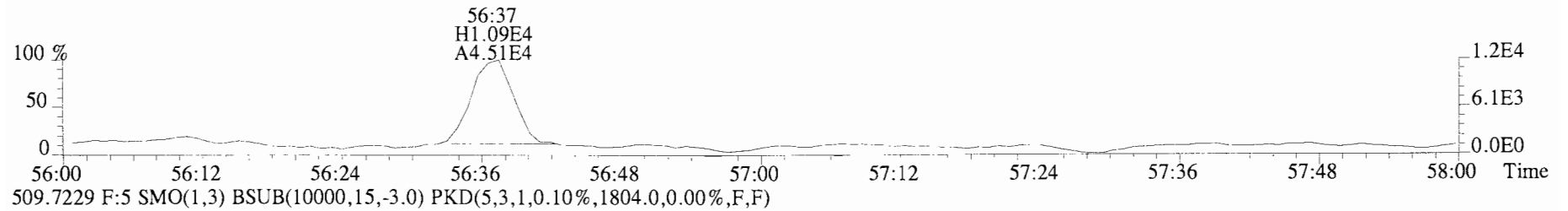
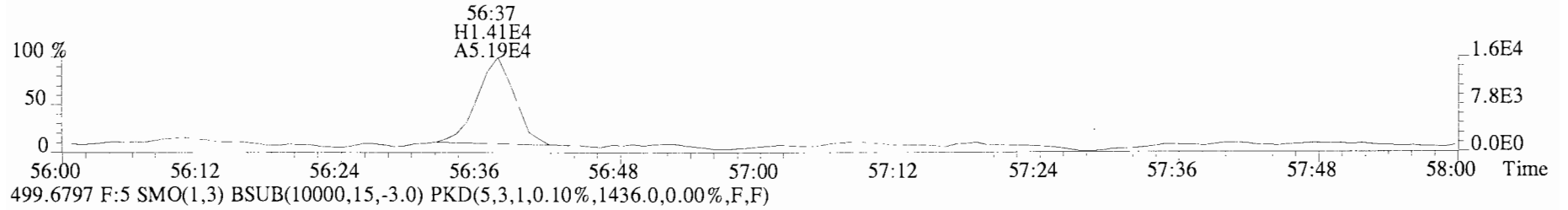
File:140620E1 #1-435 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1540.0,0.00%,F,F)



465.7186 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1568.0,0.00%,F,F)

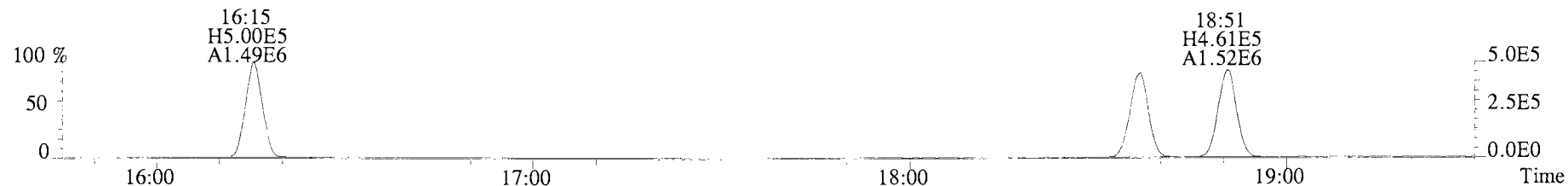


File:140620E1 #1-435 Acq:20-JUN-2014 09:31:44 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB CS0 13H1202 Exp:PCB\_ZB1  
497.6826 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1424.0,0.00%,F,F)

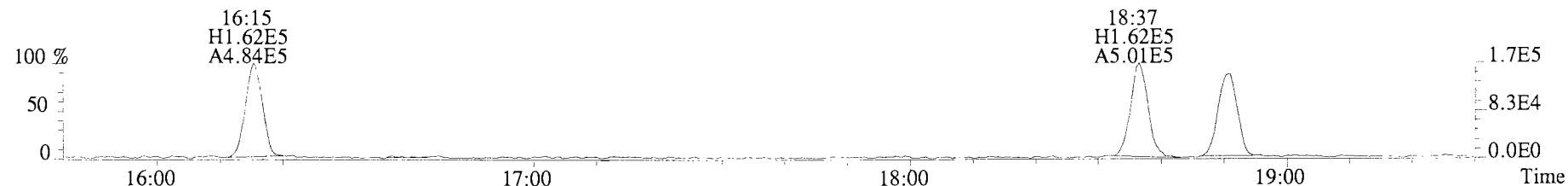




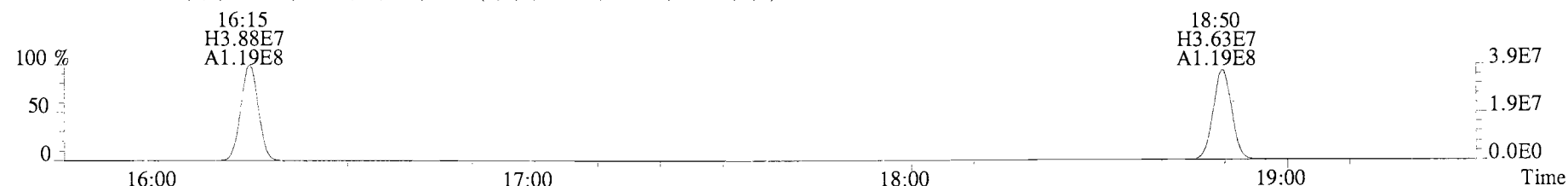
File:140620E1 #1-729 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3424.0,0.00%,F,F)



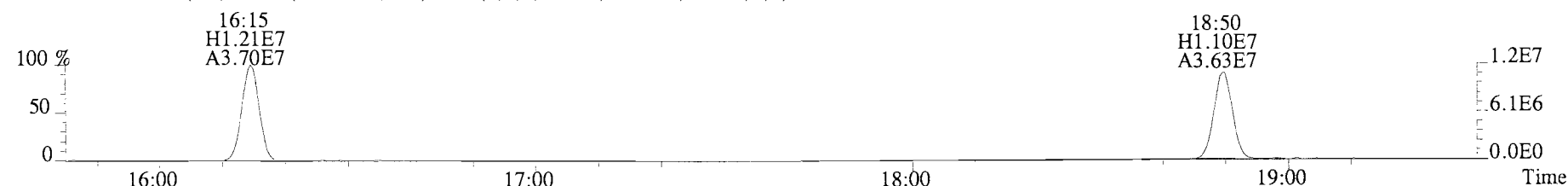
190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4152.0,0.00%,F,F)



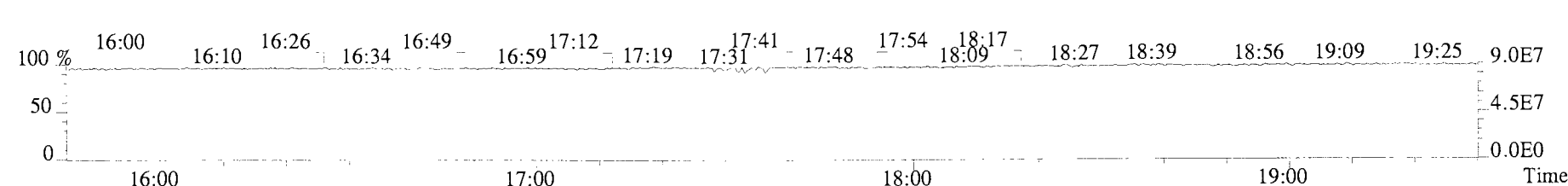
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5140.0,0.00%,F,F)



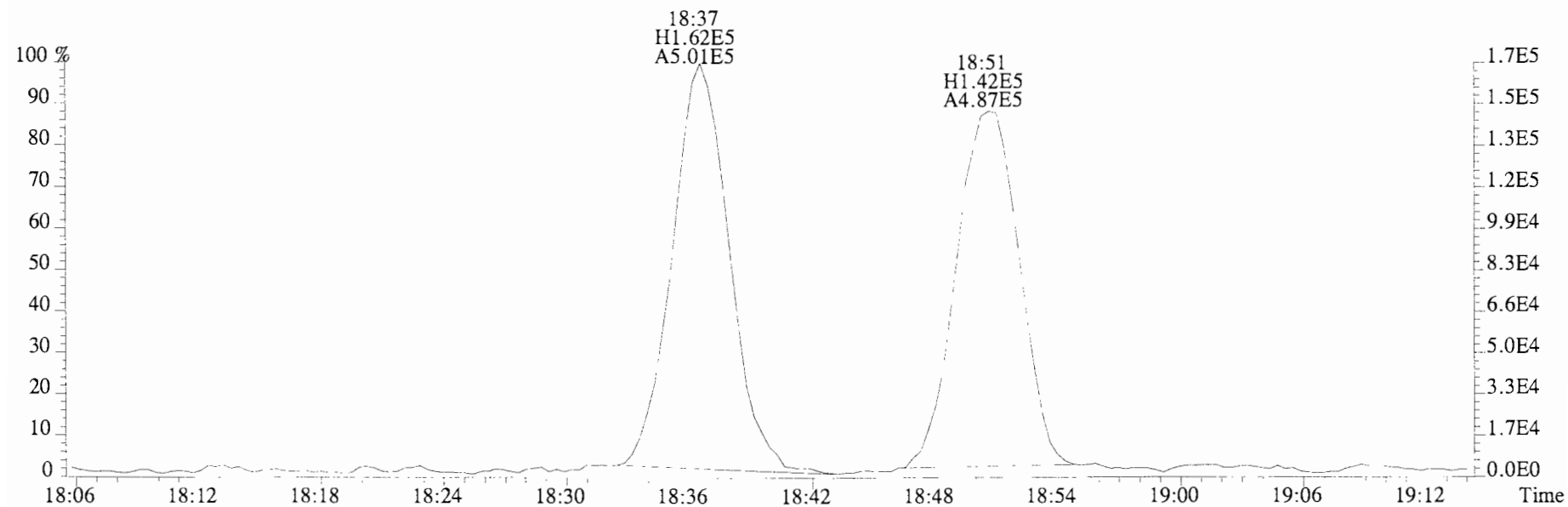
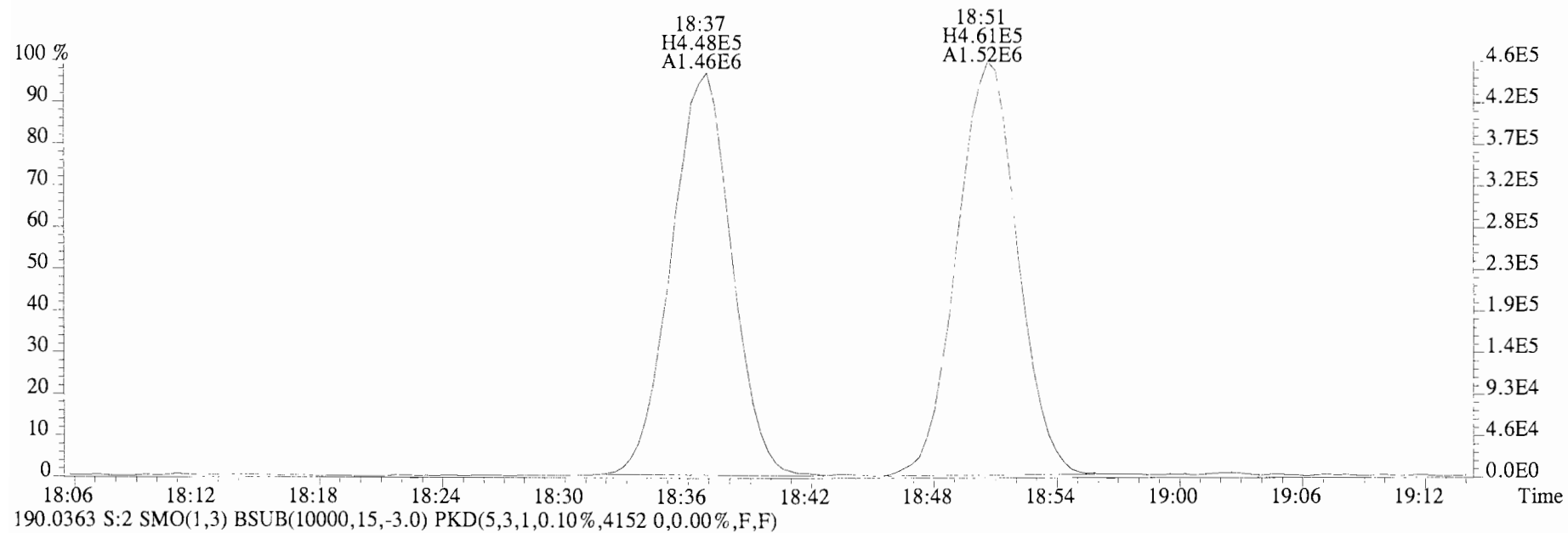
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,27932.0,0.00%,F,F)



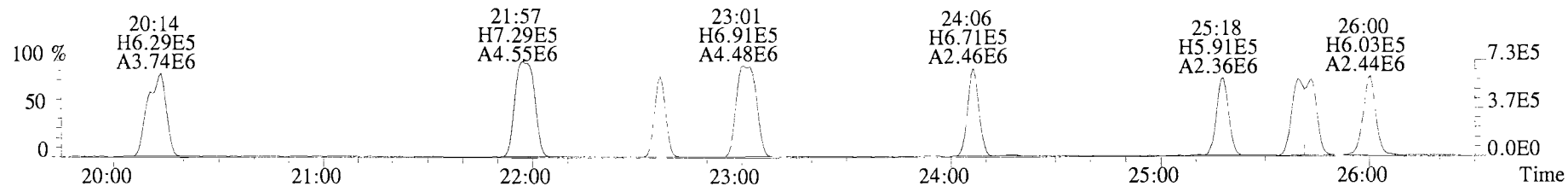
180.9880 S:2



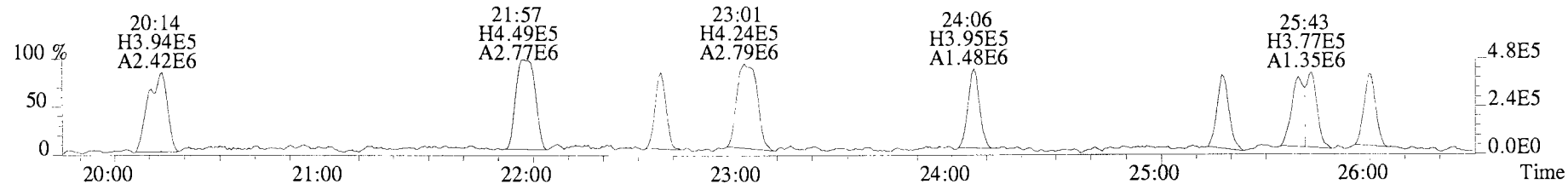
File:140620E1 #1-729 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3424.0,0.00%,F,F)



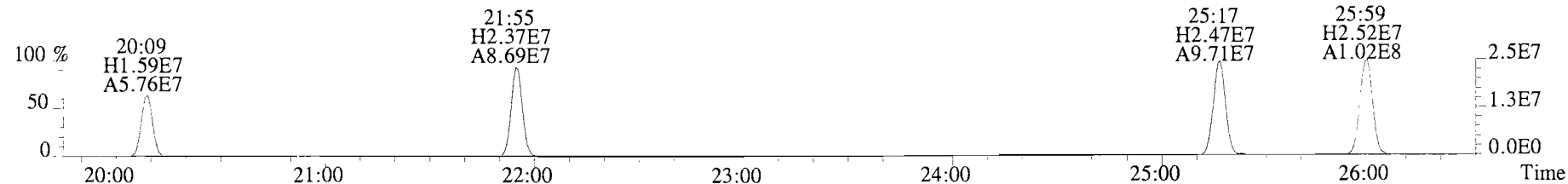
File:140620E1 #1-749 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3784.0,0.00%,F,F)



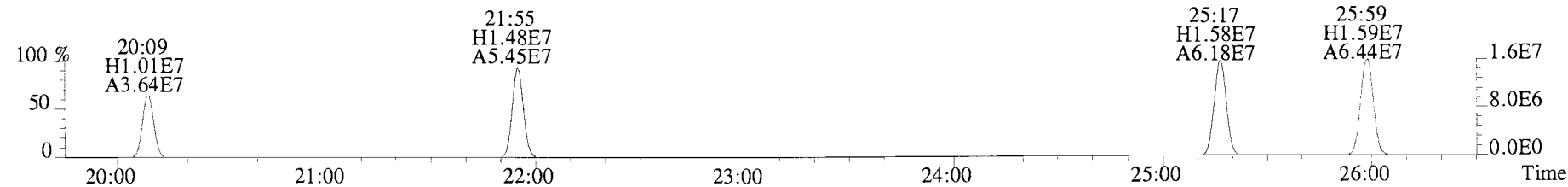
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,39756.0,0.00%,F,F)



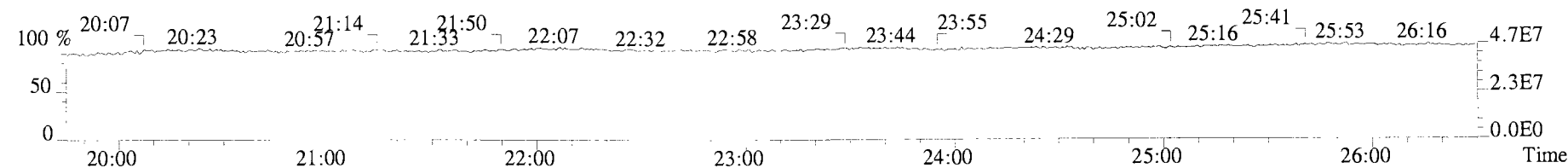
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,6168.0,0.00%,F,F)



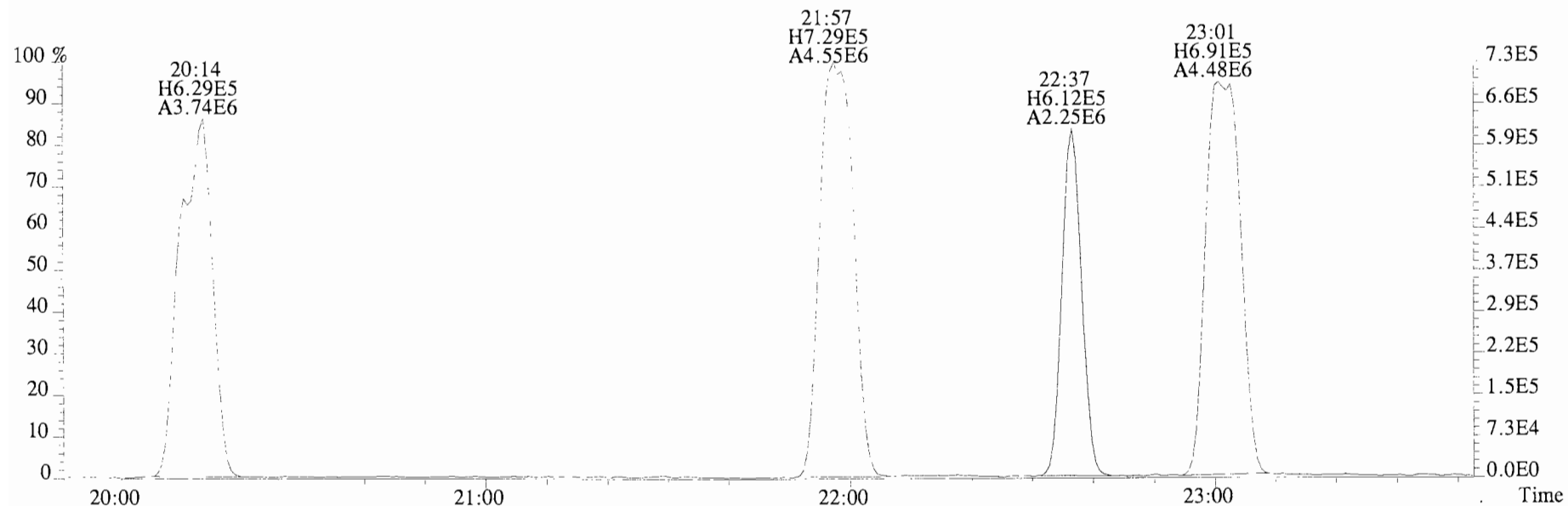
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5884.0,0.00%,F,F)



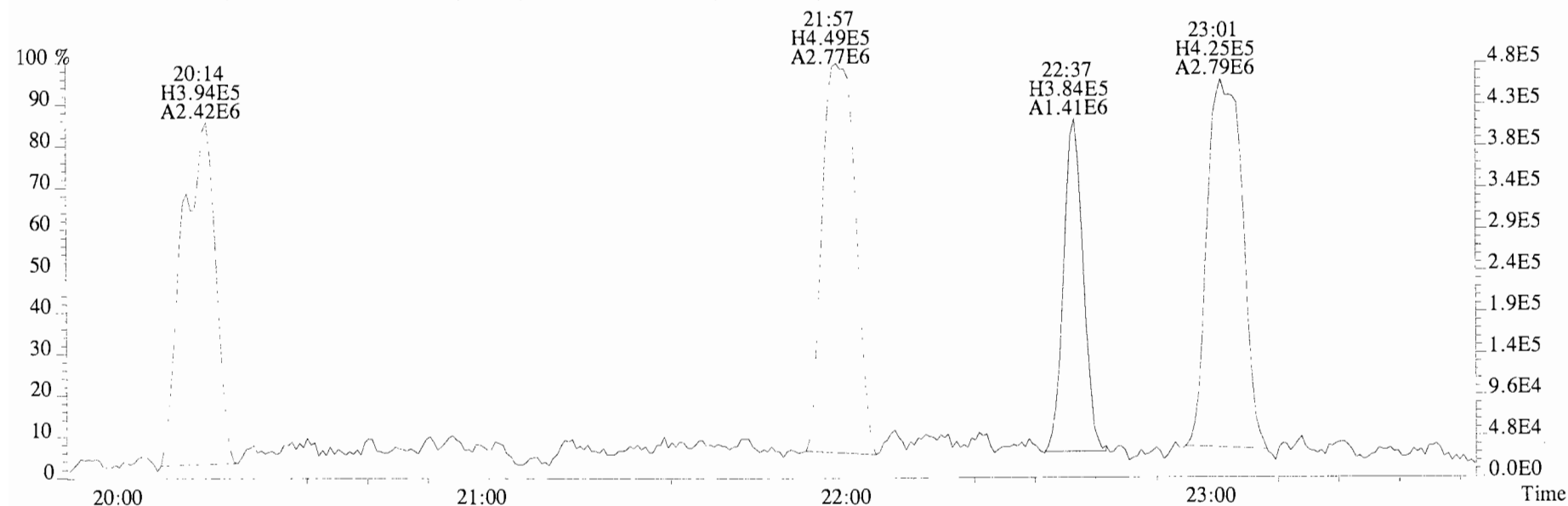
230.9856 S:2 F:2



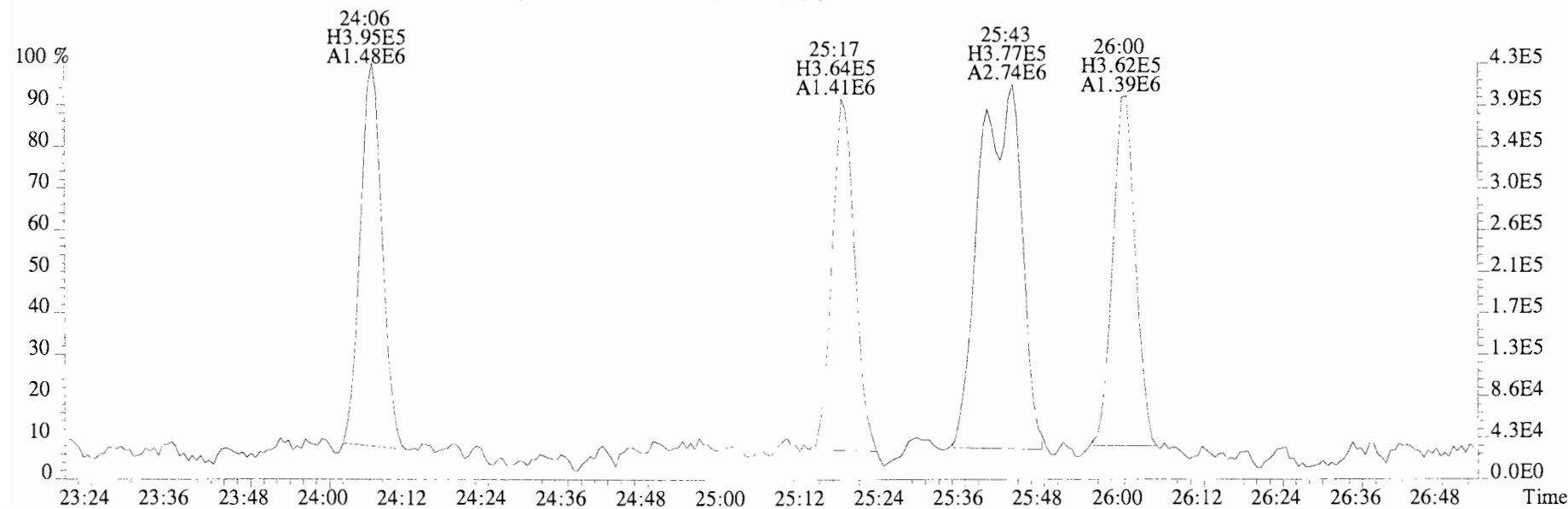
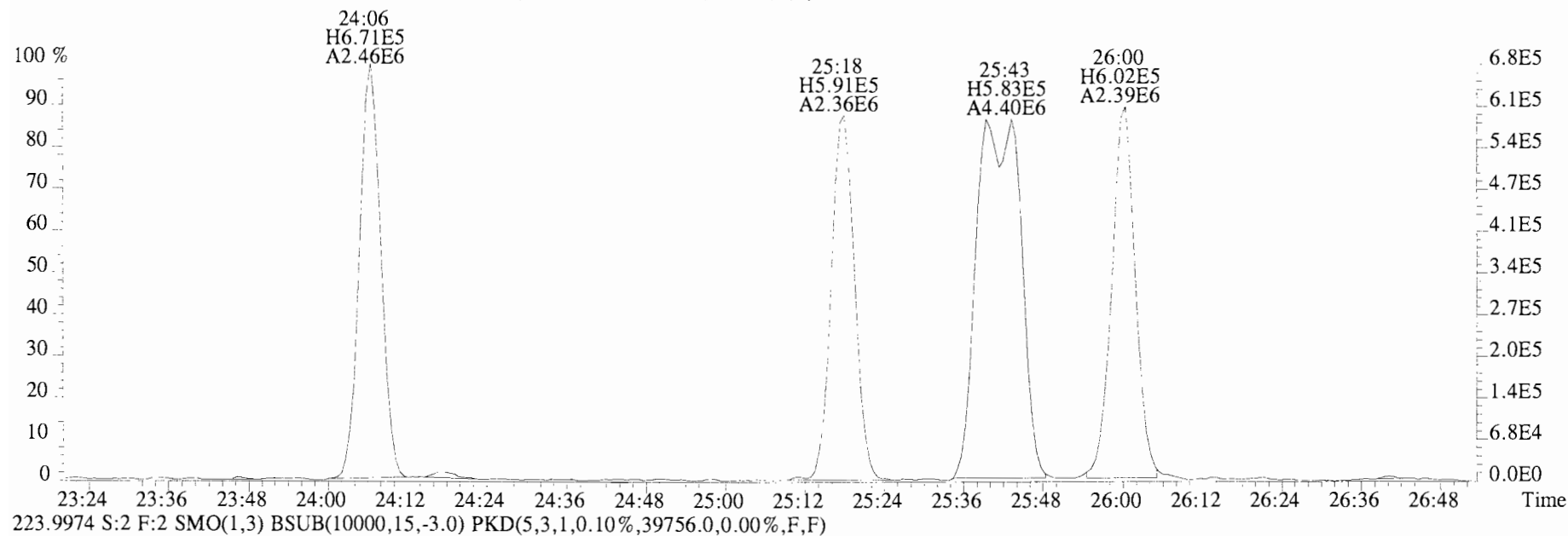
File:140620E1 #1-749 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3784.0,0.00%,F,F)



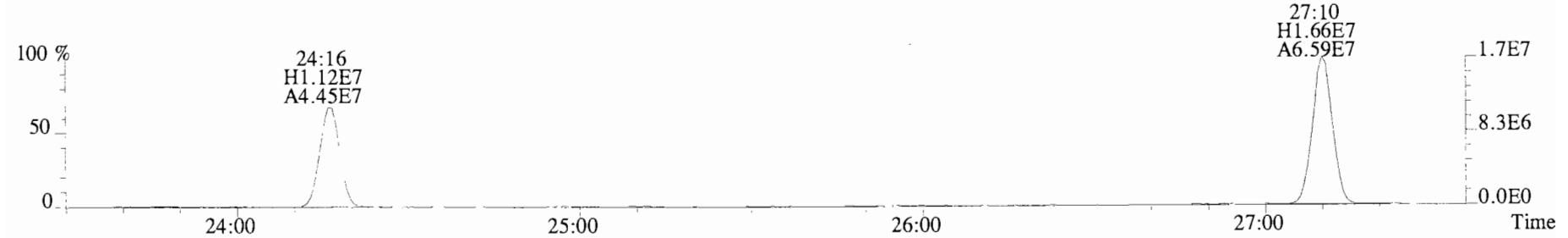
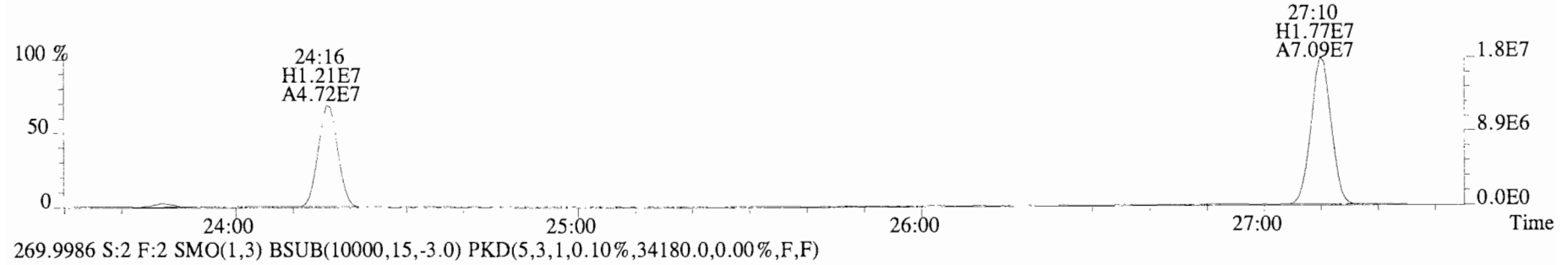
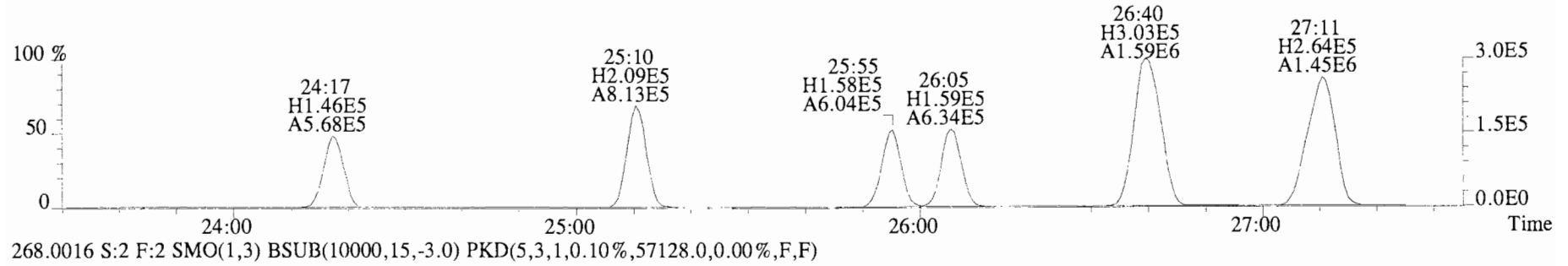
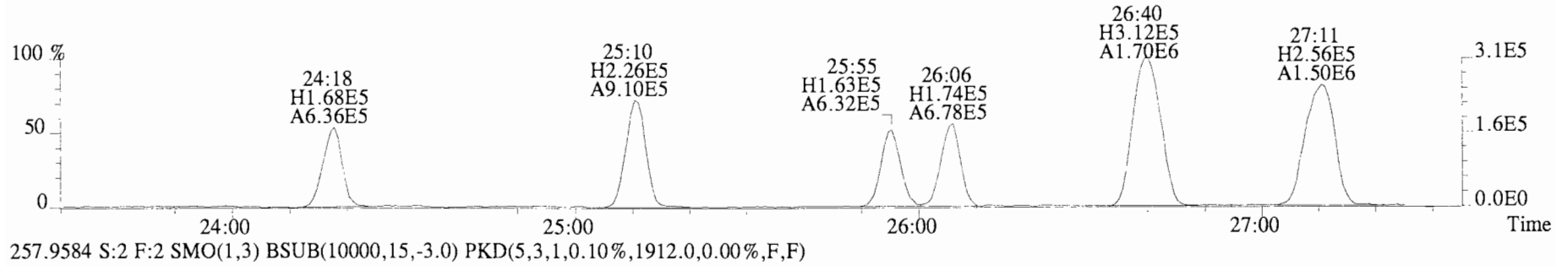
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,39756.0,0.00%,F,F)



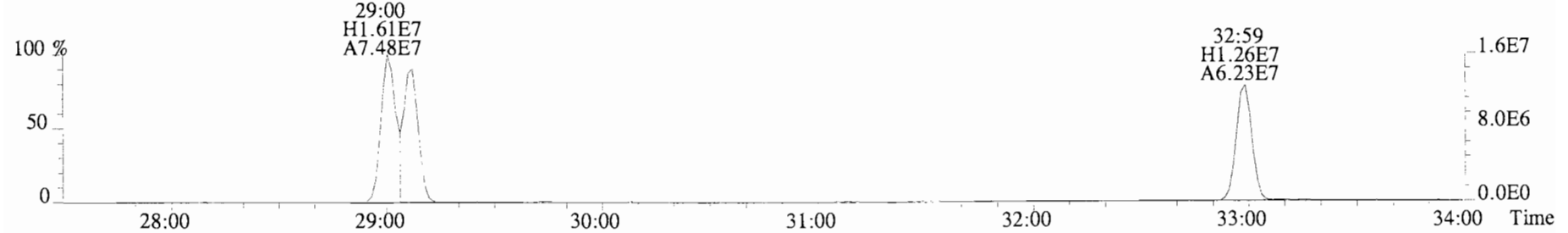
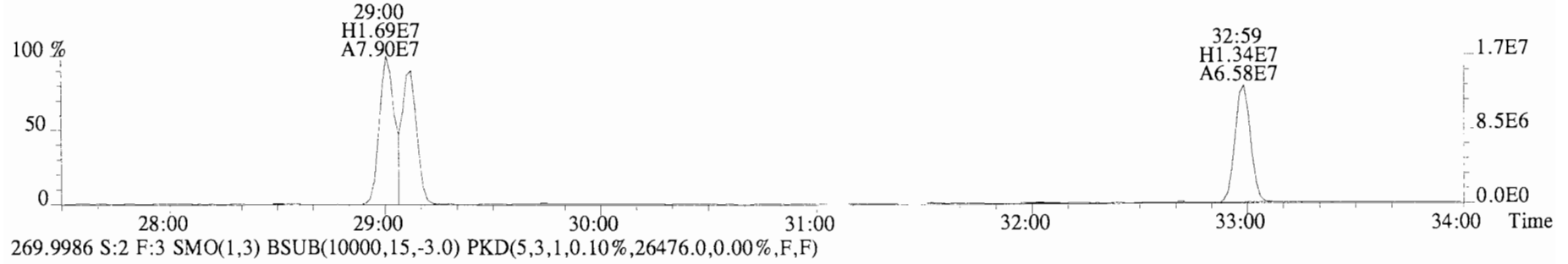
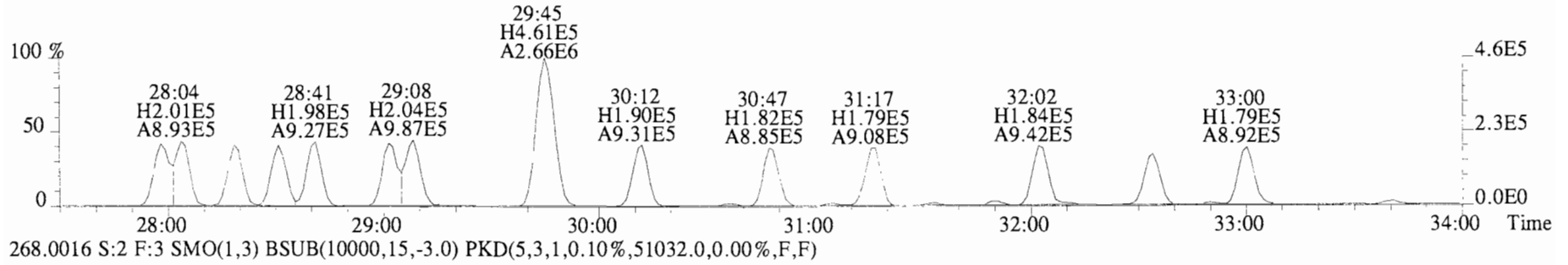
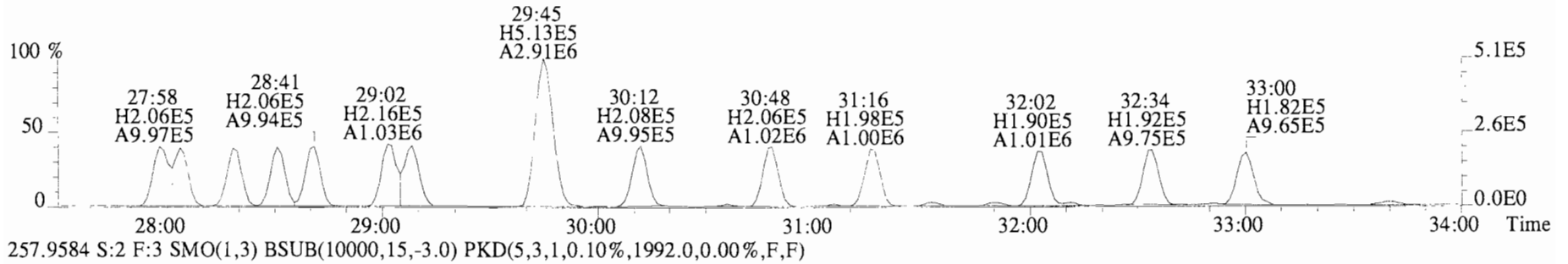
File:140620E1 #1-749 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3784.0,0.00%,F,F)



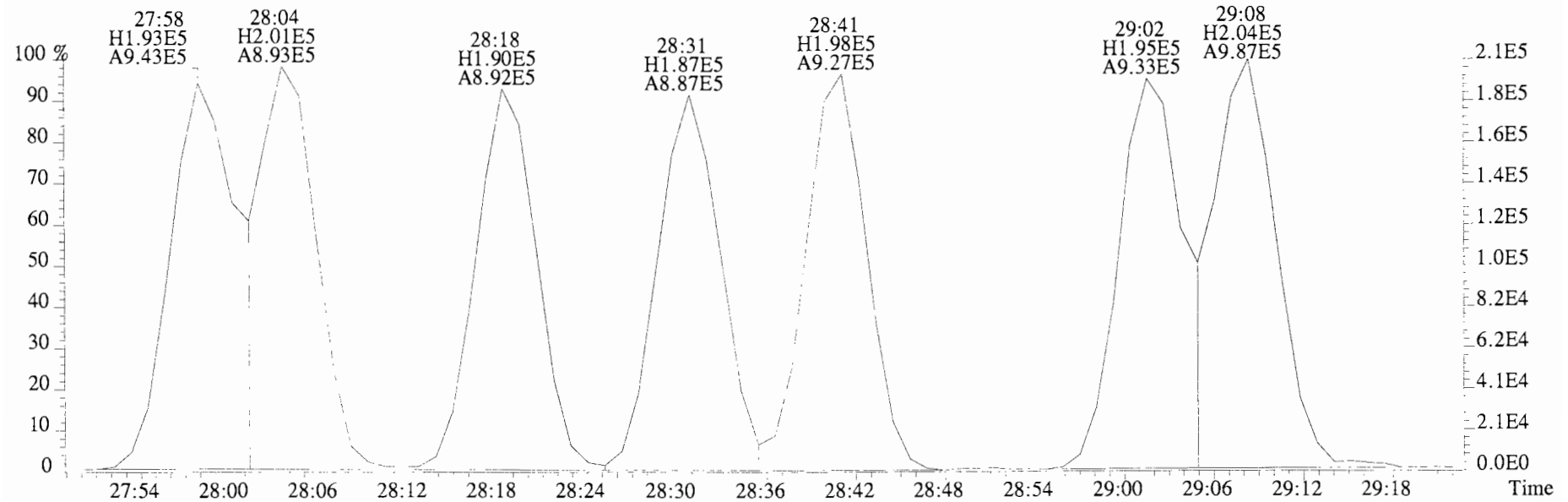
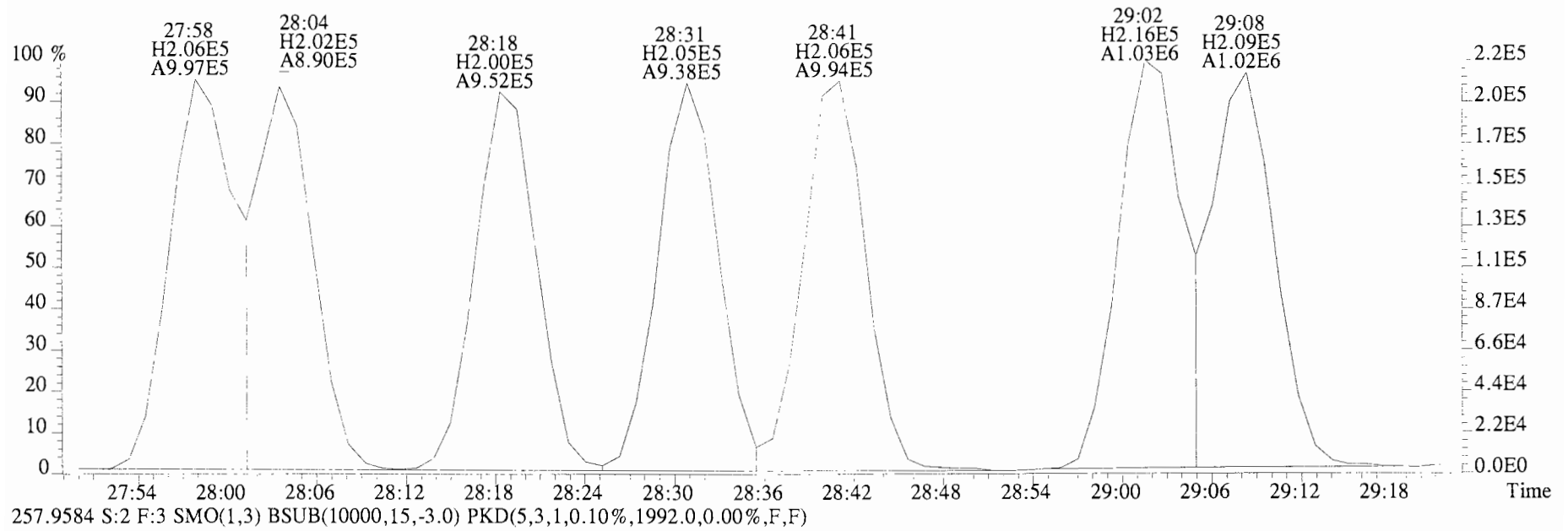
File:140620E1 #1-749 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2992.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4012.0,0.00%,F,F)

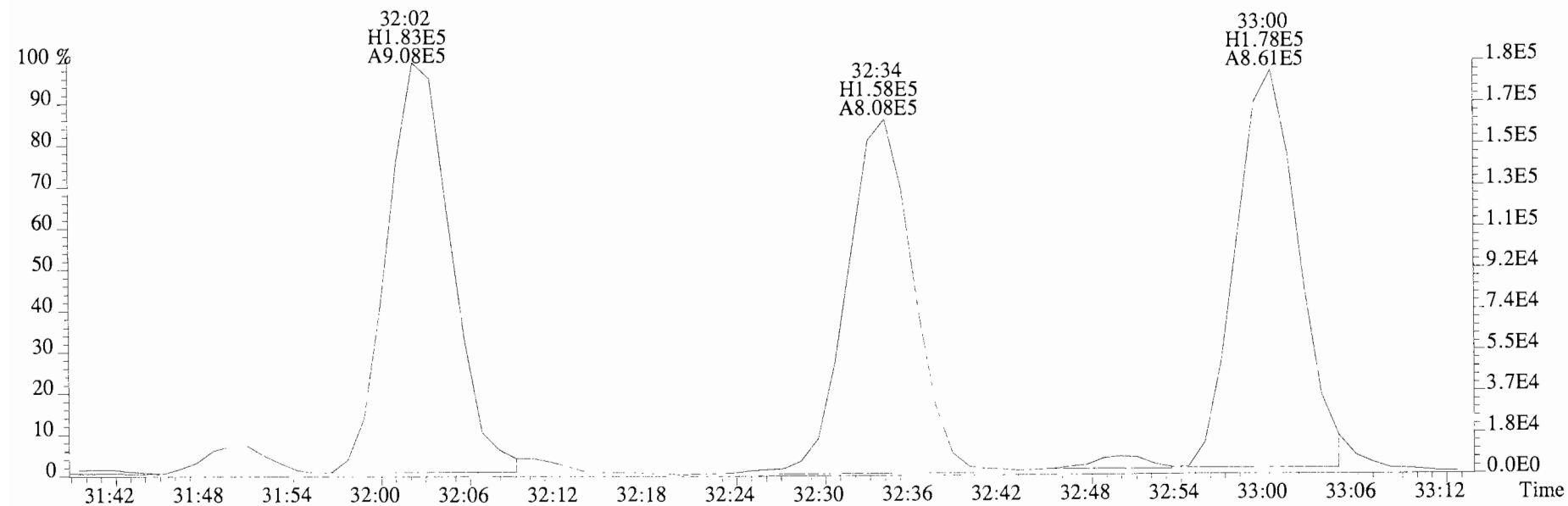
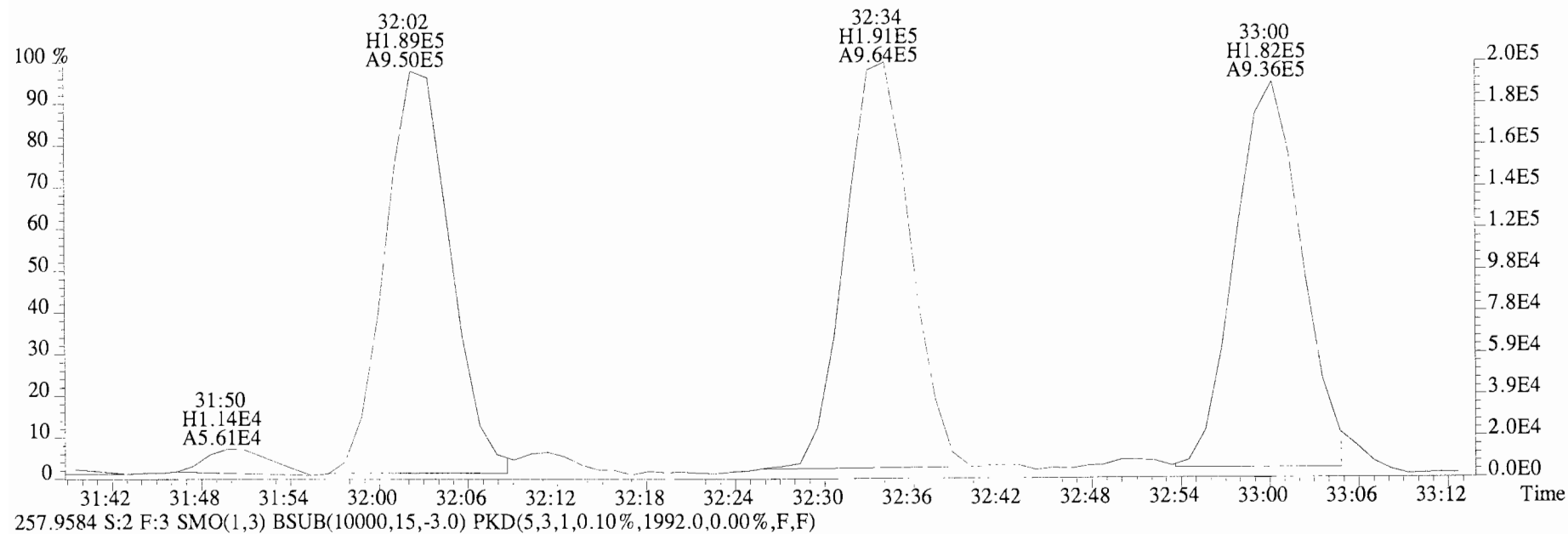


File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4012.0,0.00%,F,F)

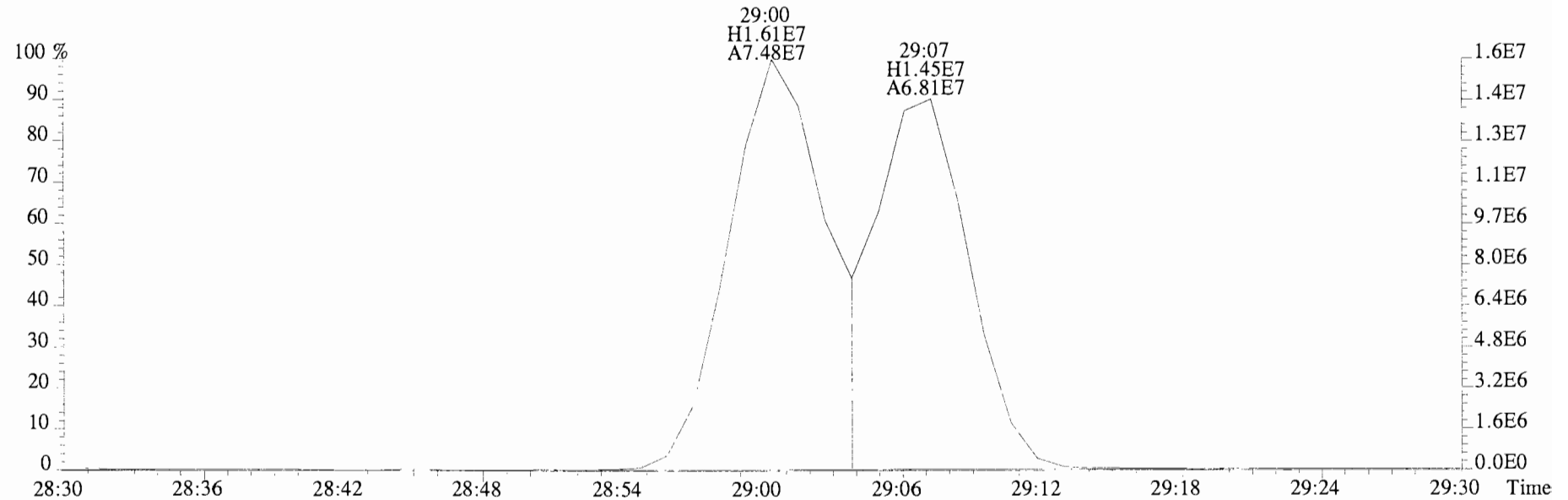
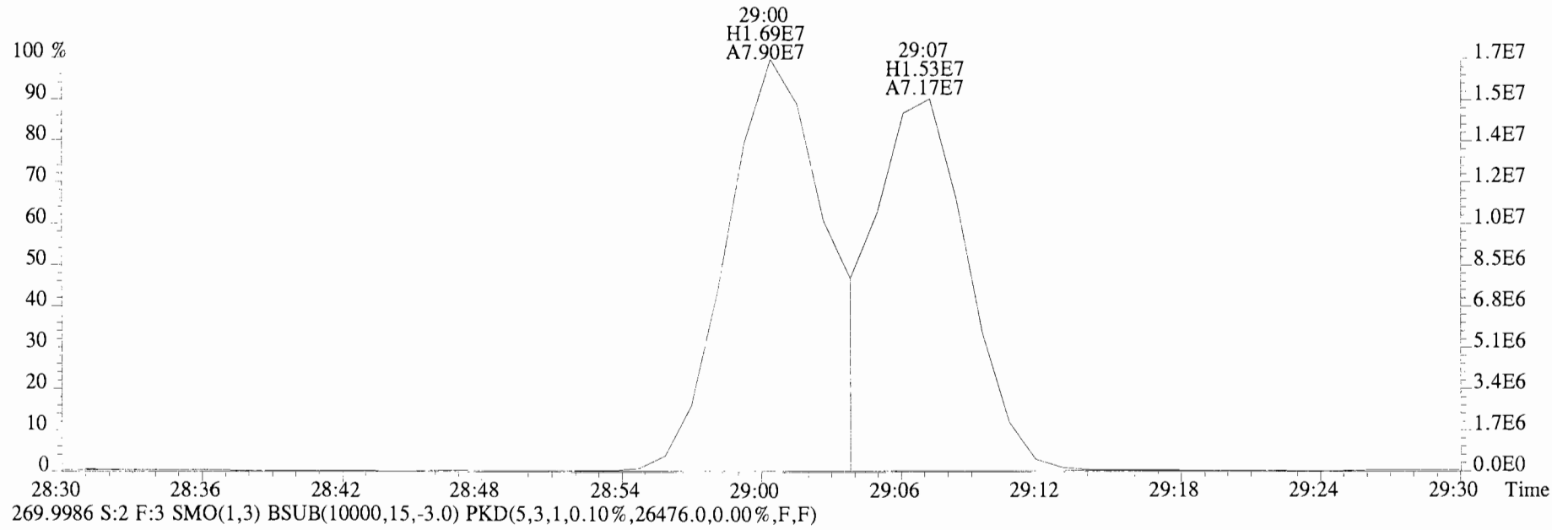




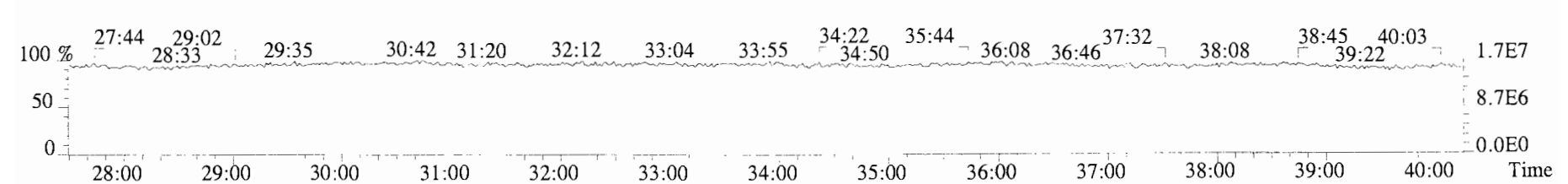
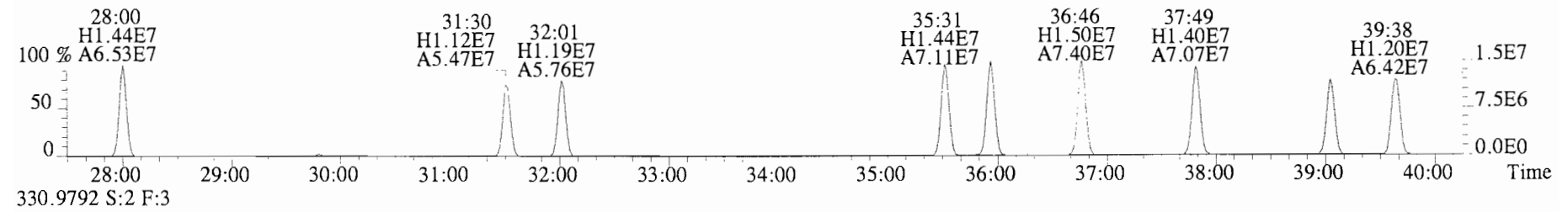
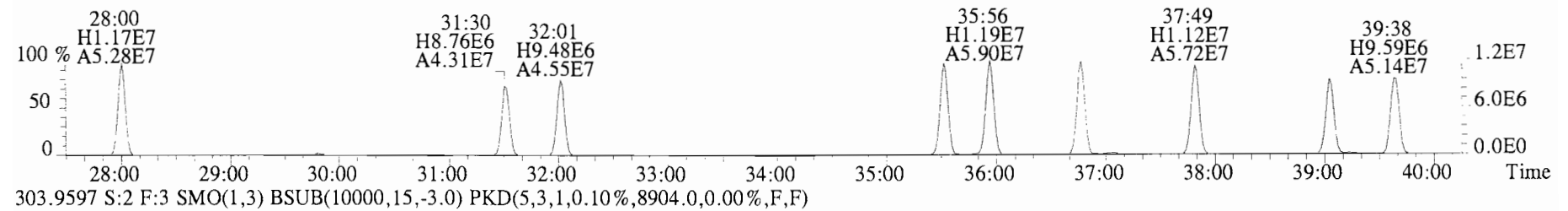
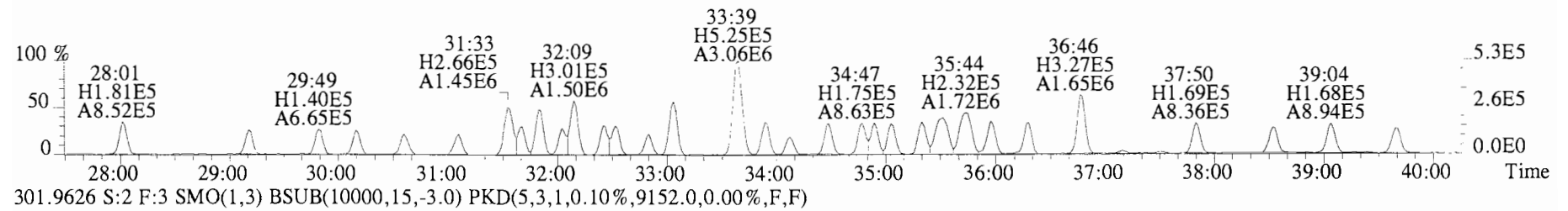
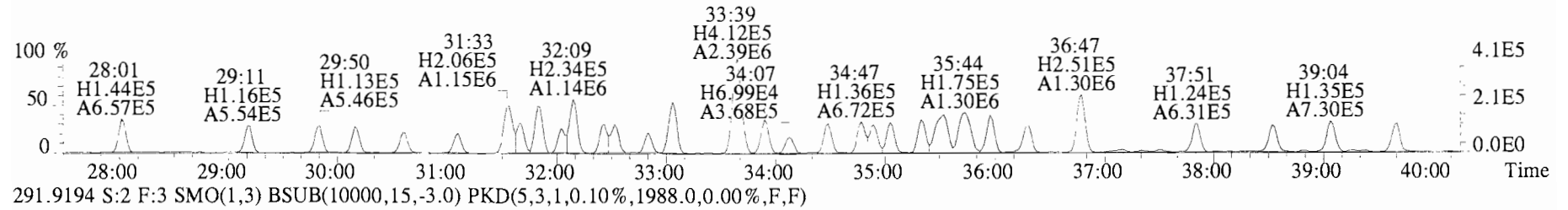
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4012.0,0.00%,F,F)



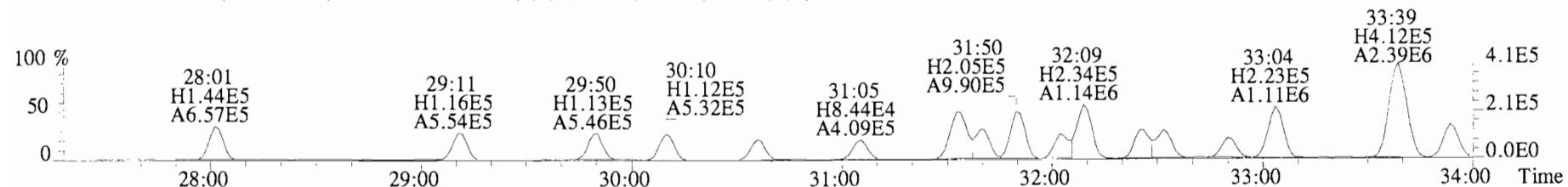
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,51032.0,0.00%,F,F)



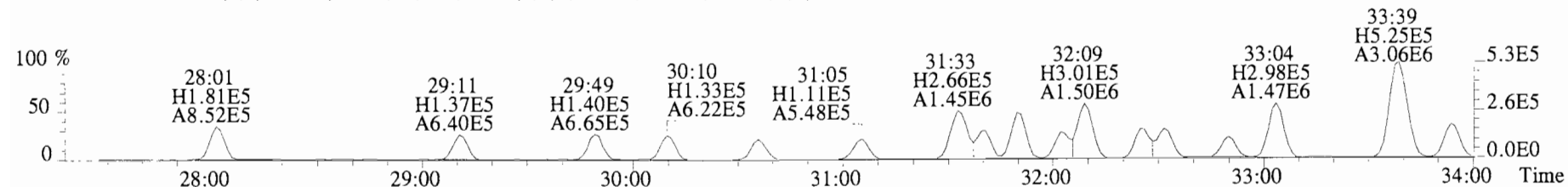
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)



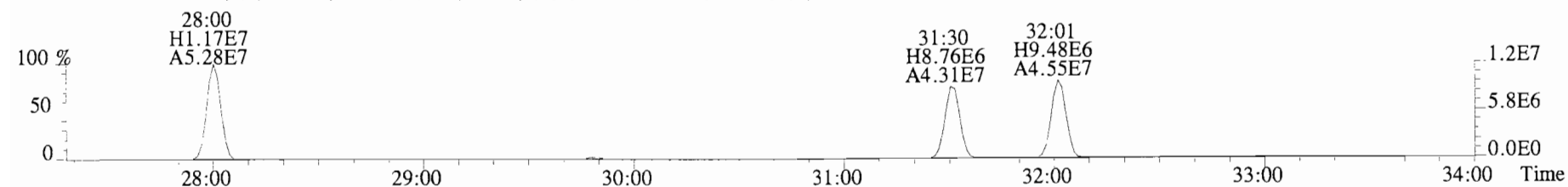
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)



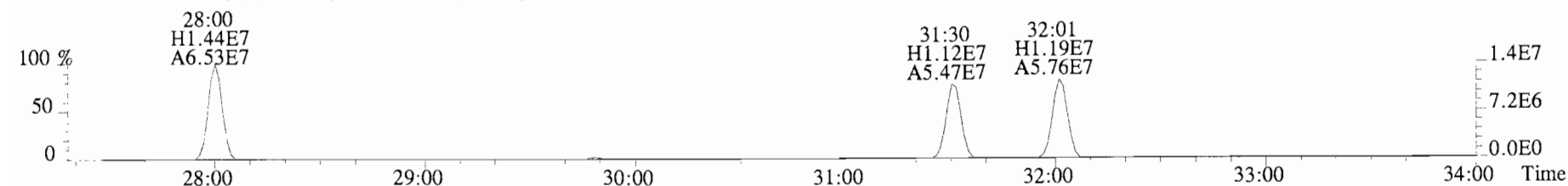
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1988.0,0.00%,F,F)



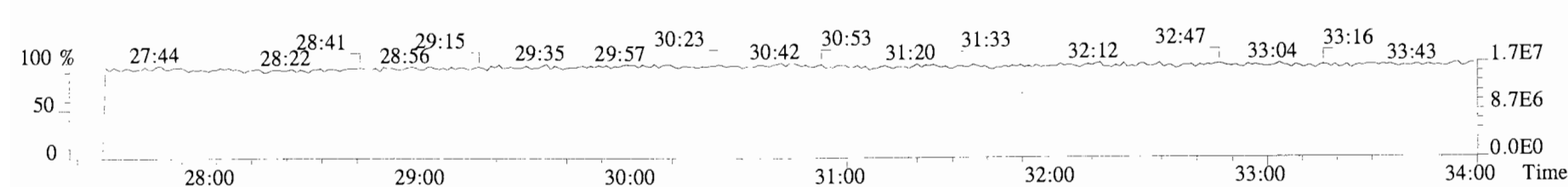
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9152.0,0.00%,F,F)



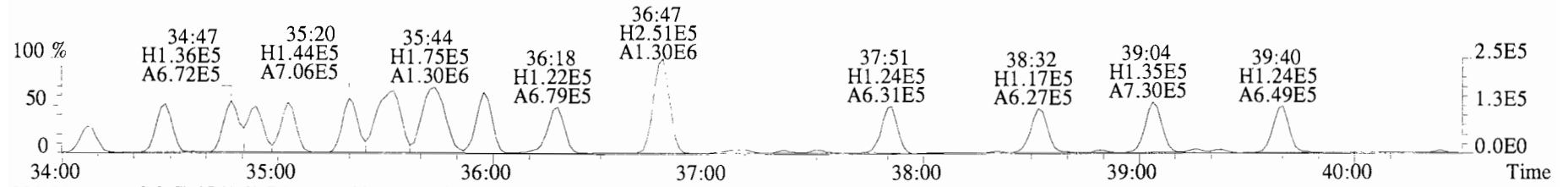
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,8904.0,0.00%,F,F)



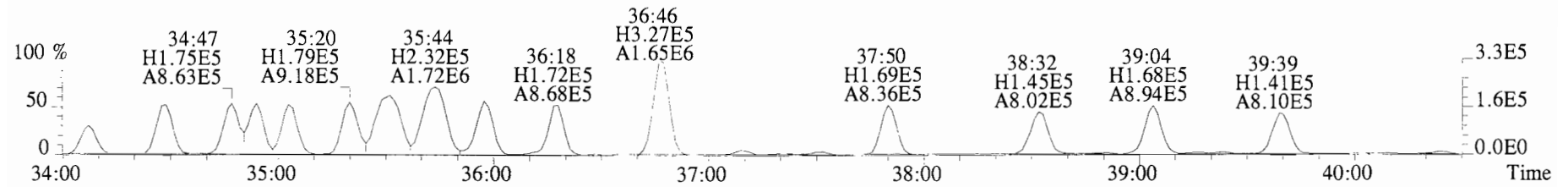
330.9792 S:2 F:3



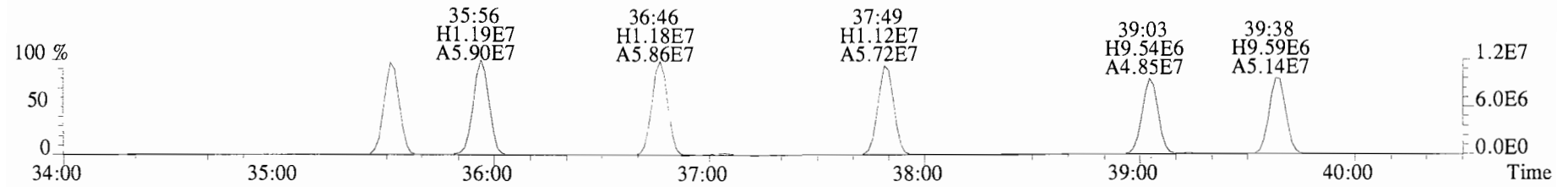
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)



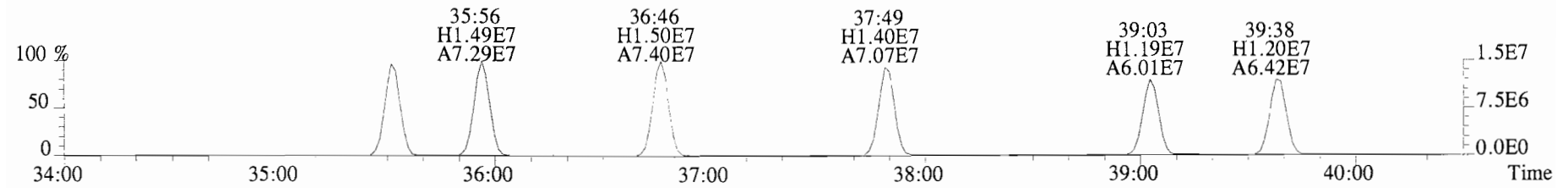
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1988.0,0.00%,F,F)



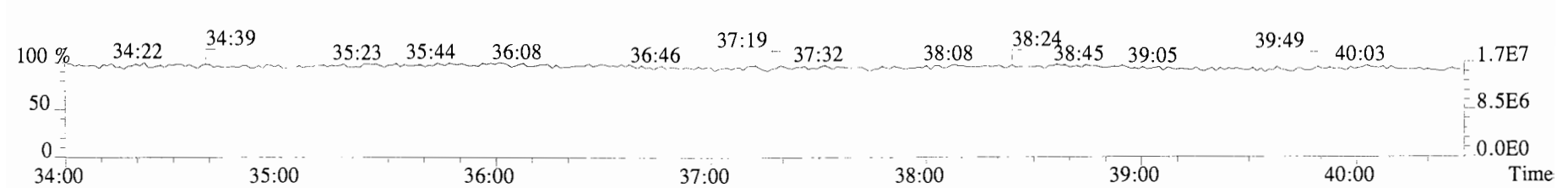
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9152.0,0.00%,F,F)



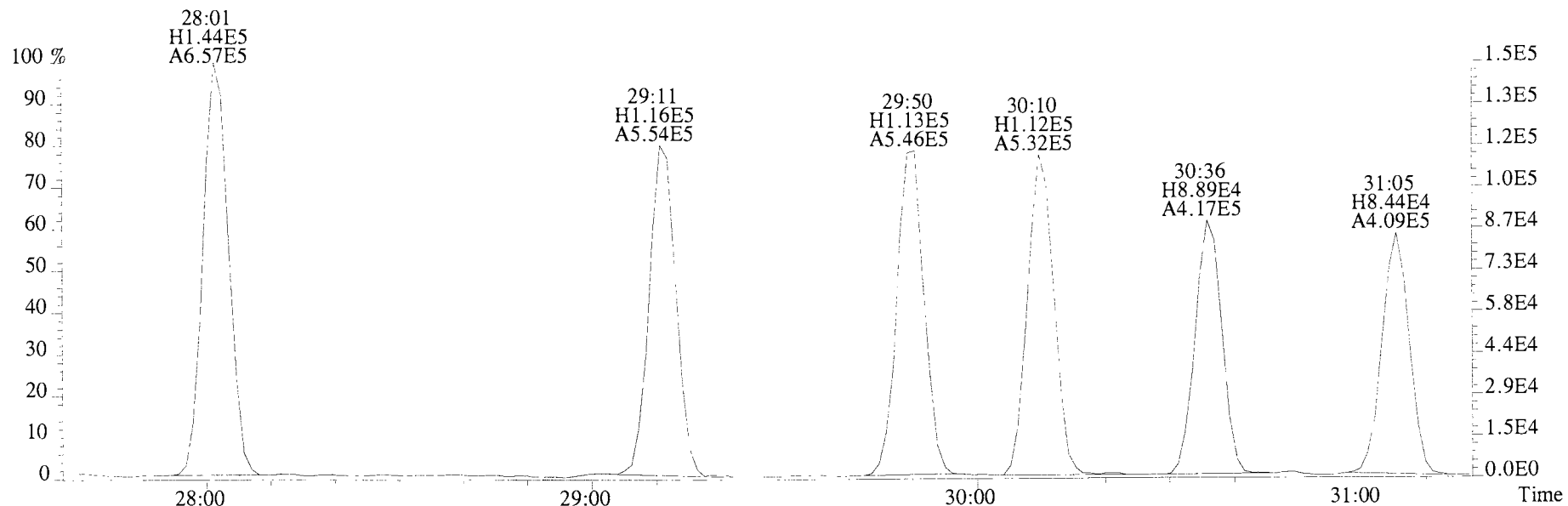
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,8904.0,0.00%,F,F)



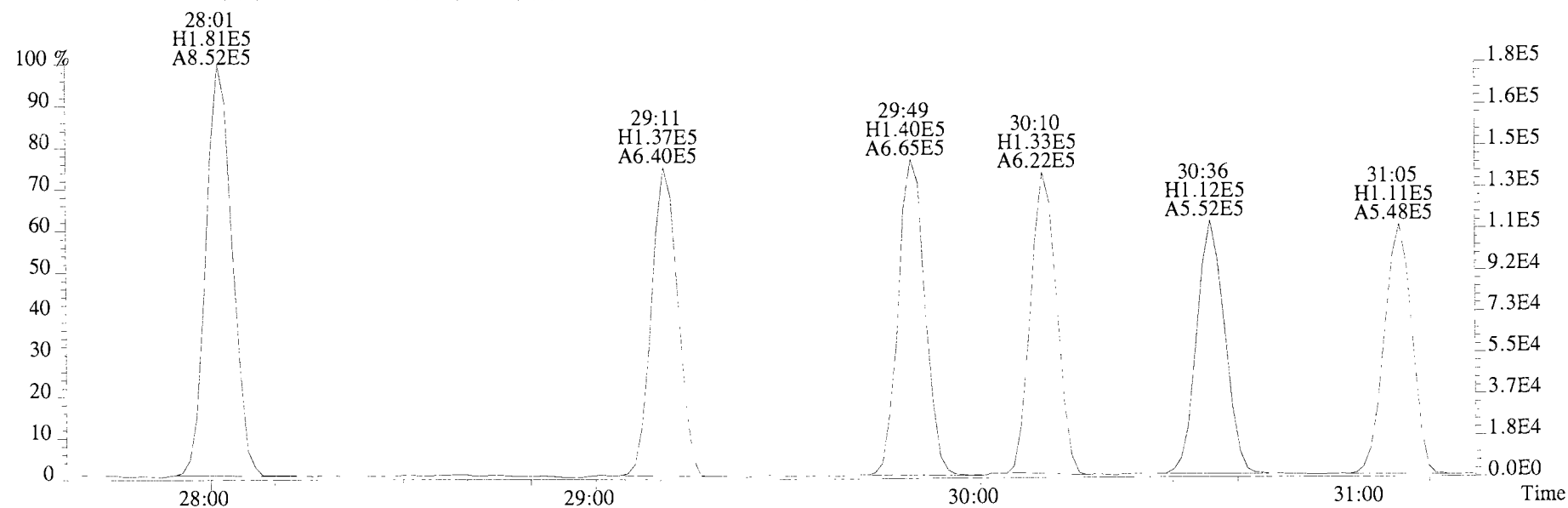
330.9792 S:2 F:3



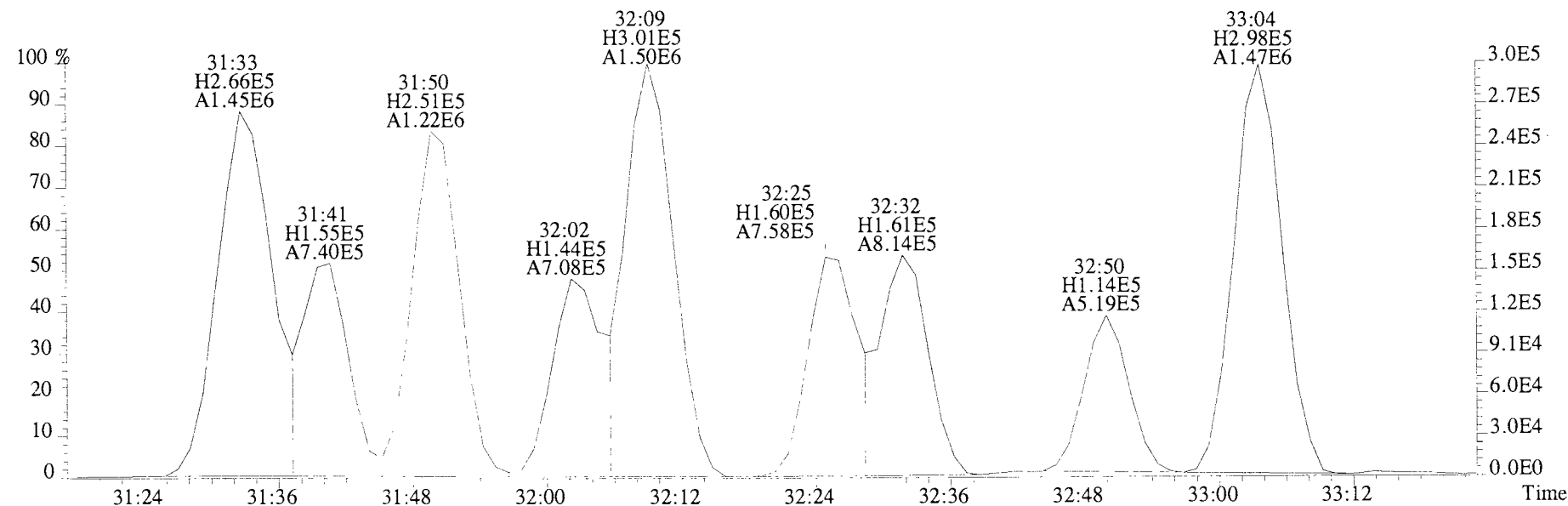
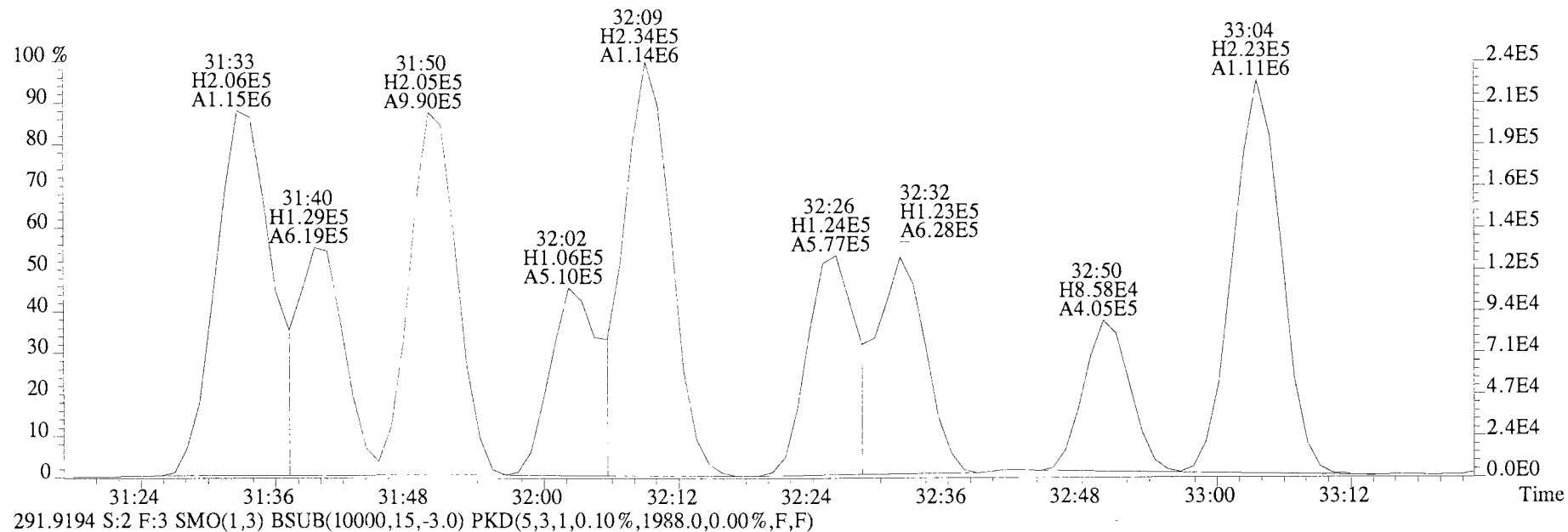
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)



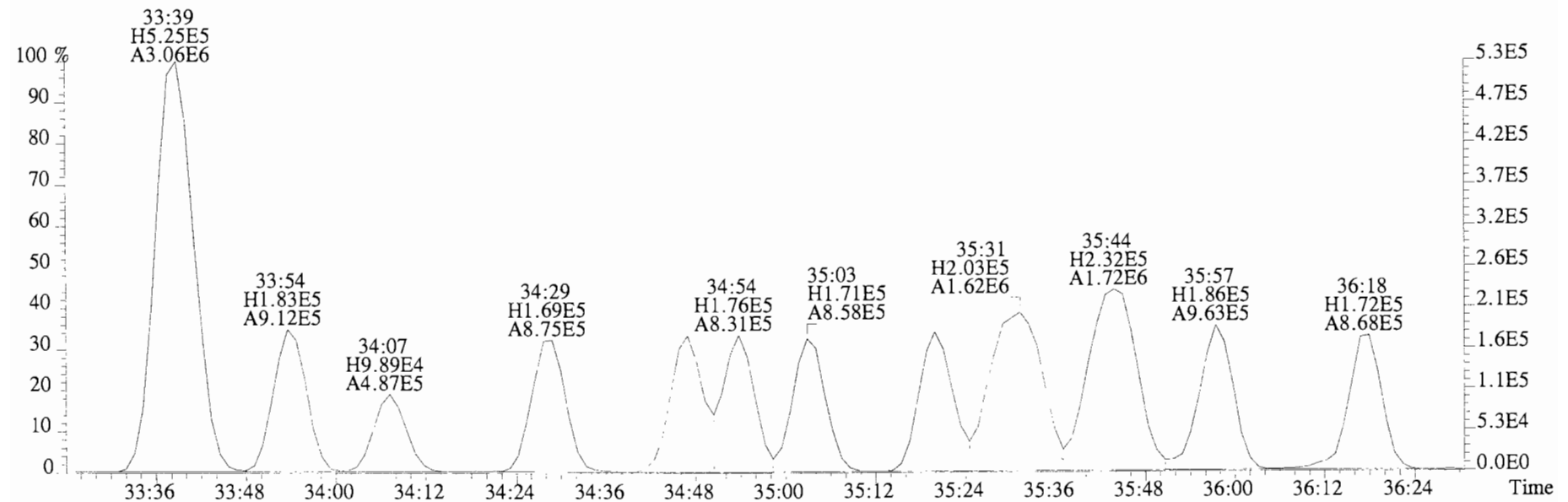
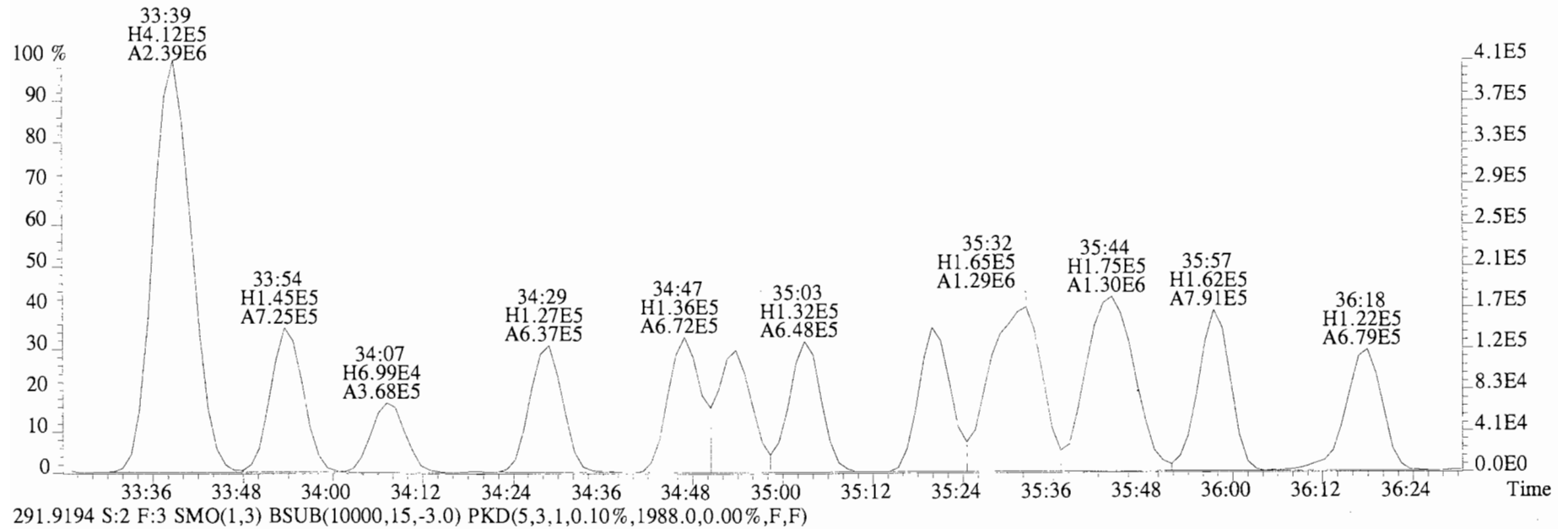
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1988.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)

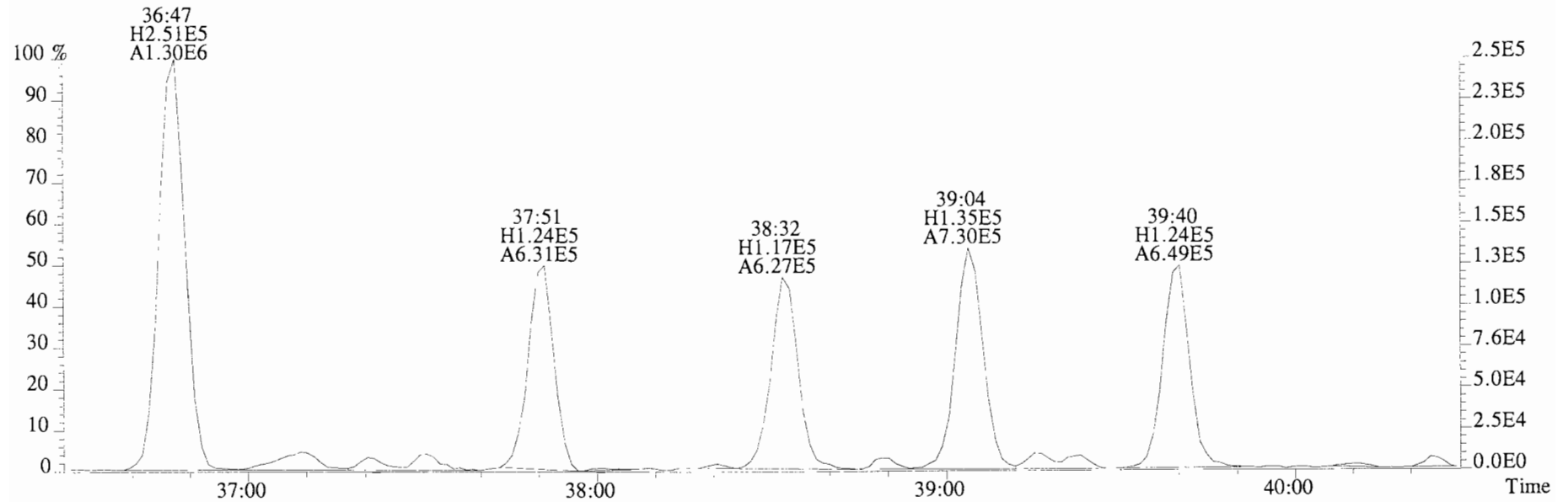


File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)

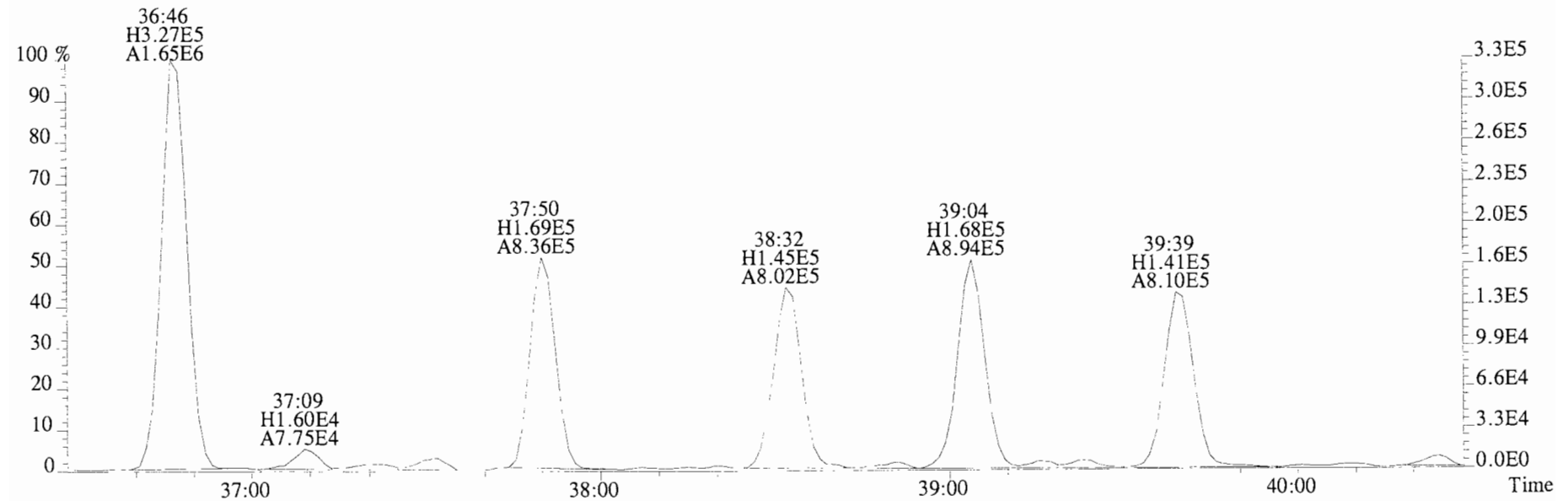




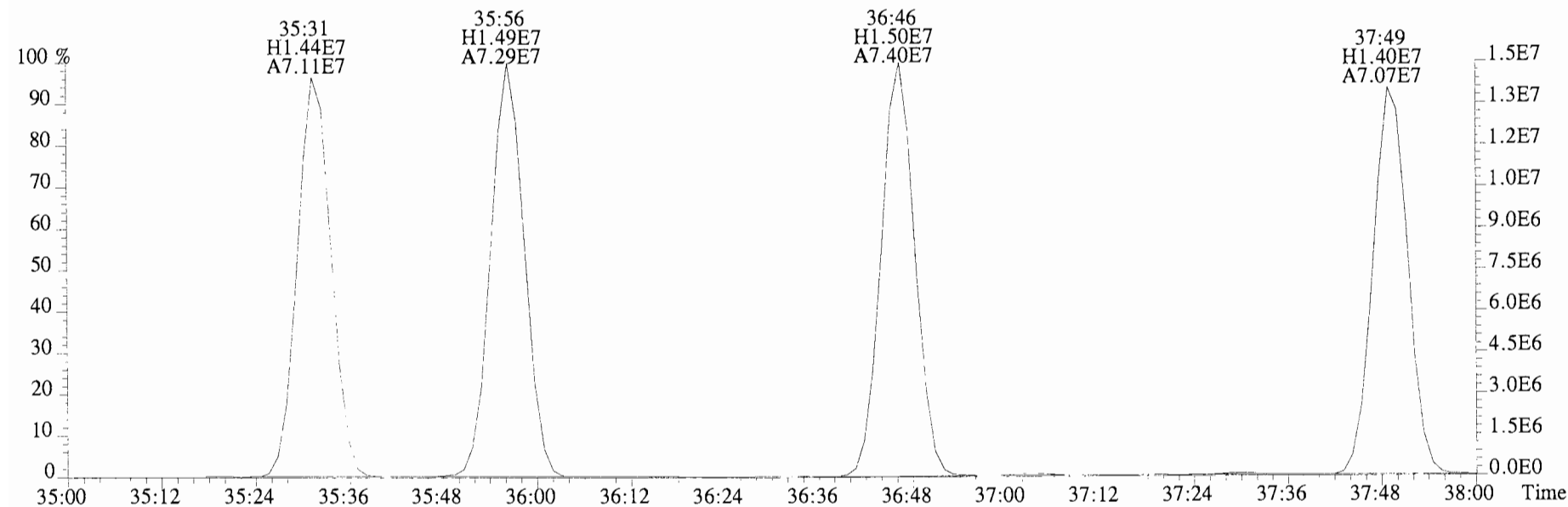
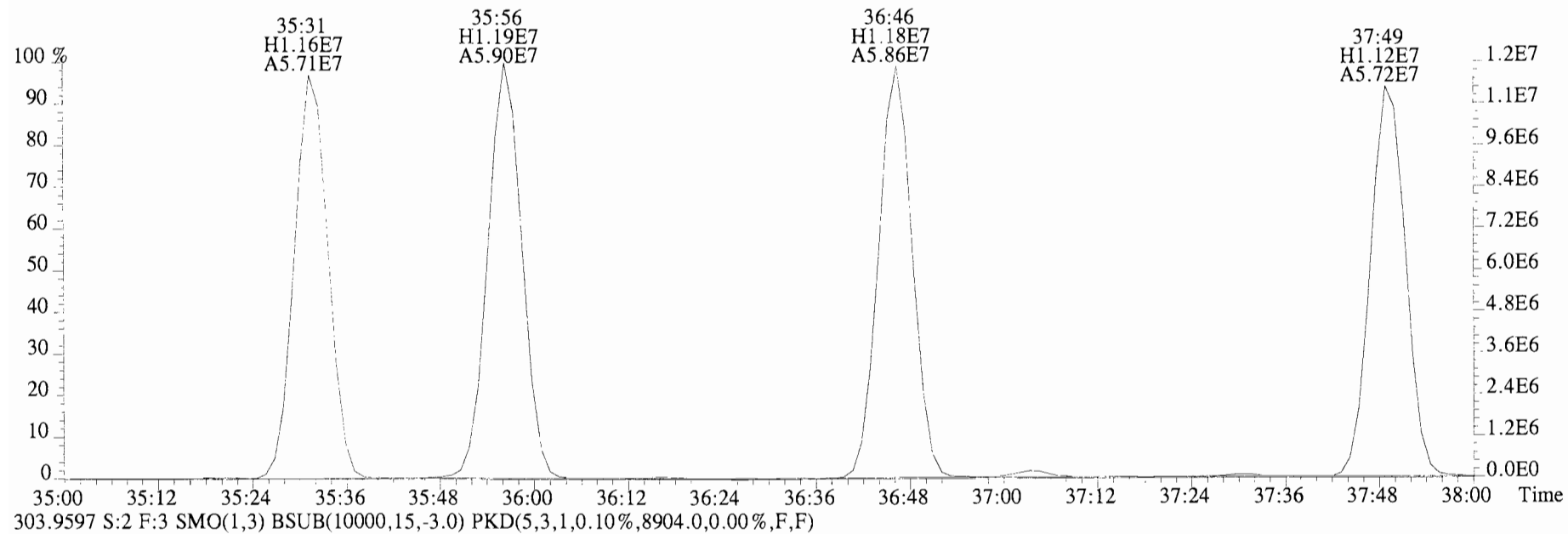
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1808.0,0.00%,F,F)



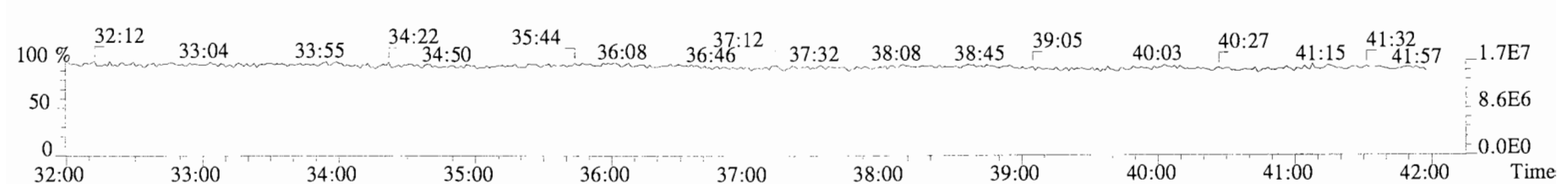
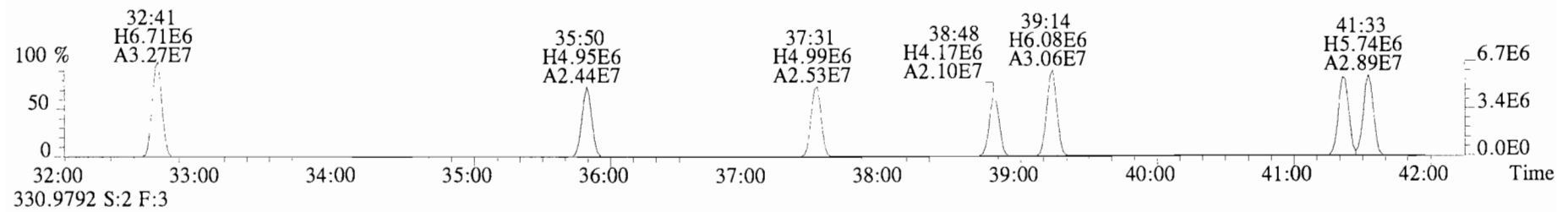
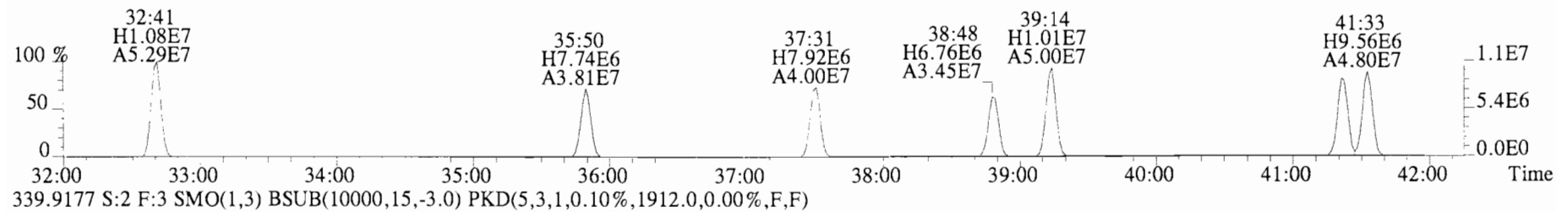
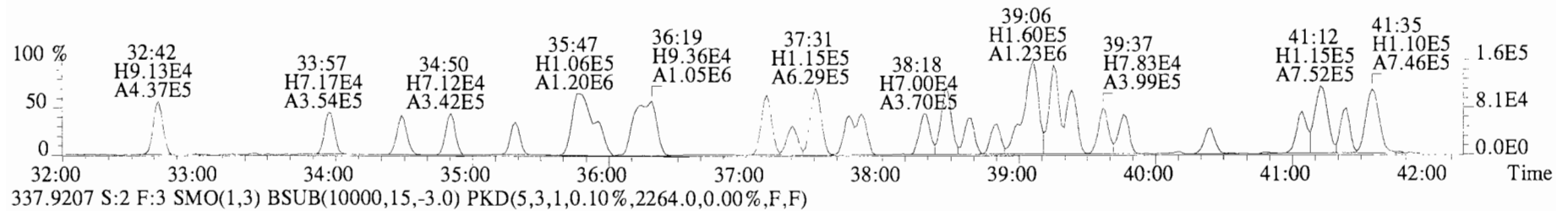
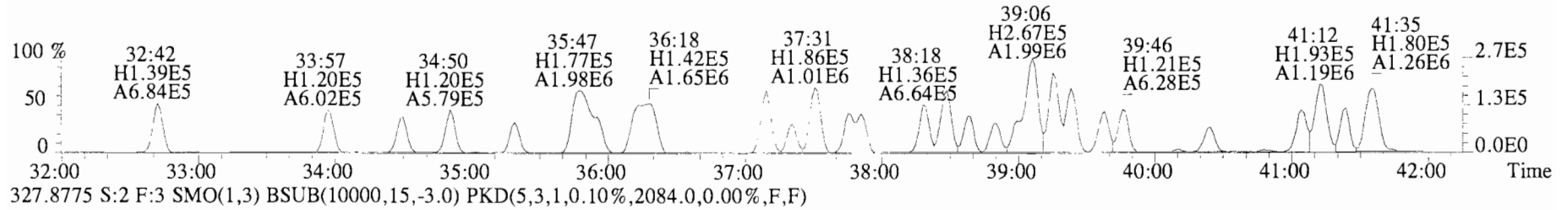
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1988.0,0.00%,F,F)



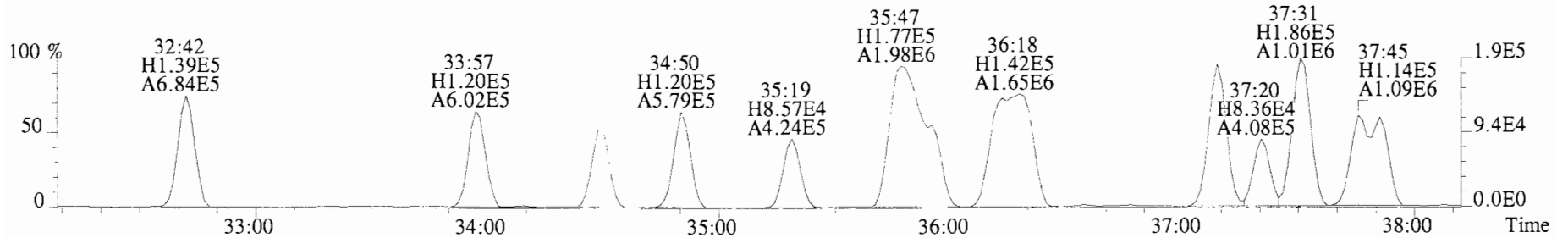
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9152.0,0.00%,F,F)



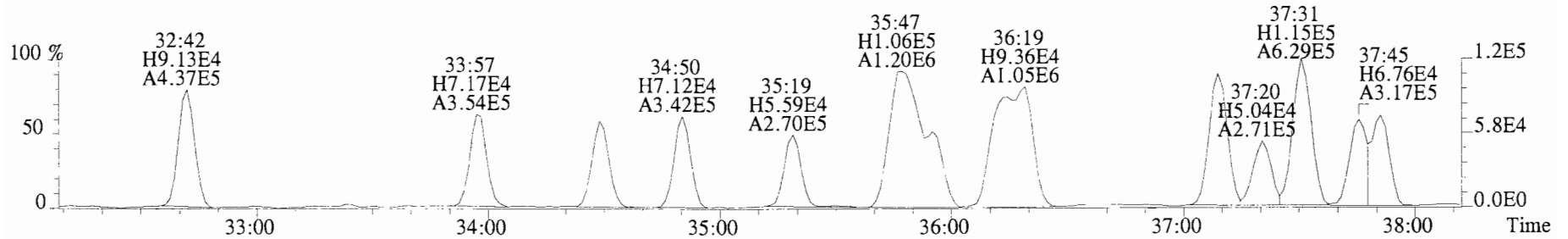
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



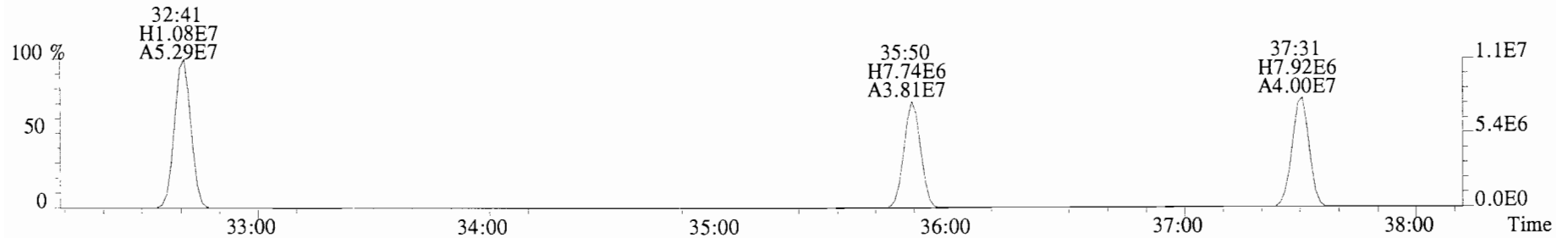
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



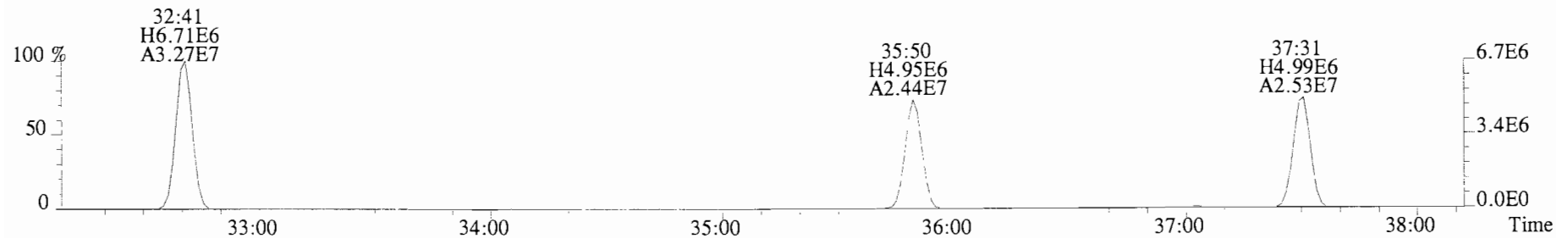
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2084.0,0.00%,F,F)



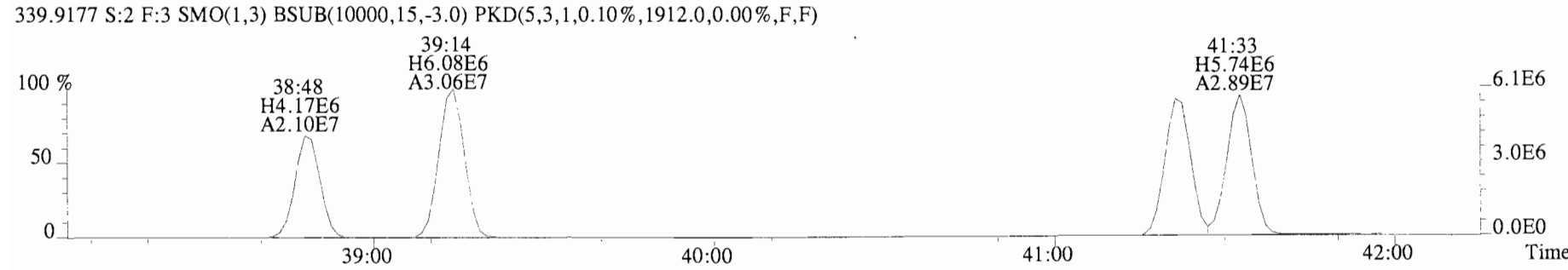
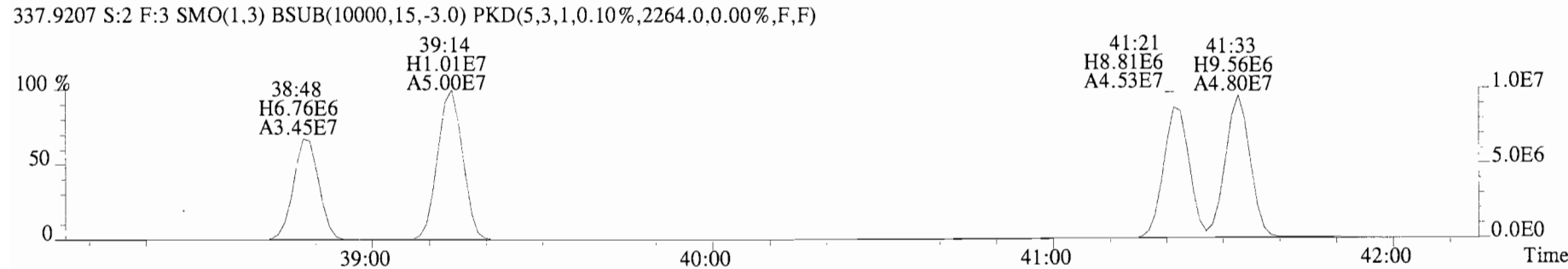
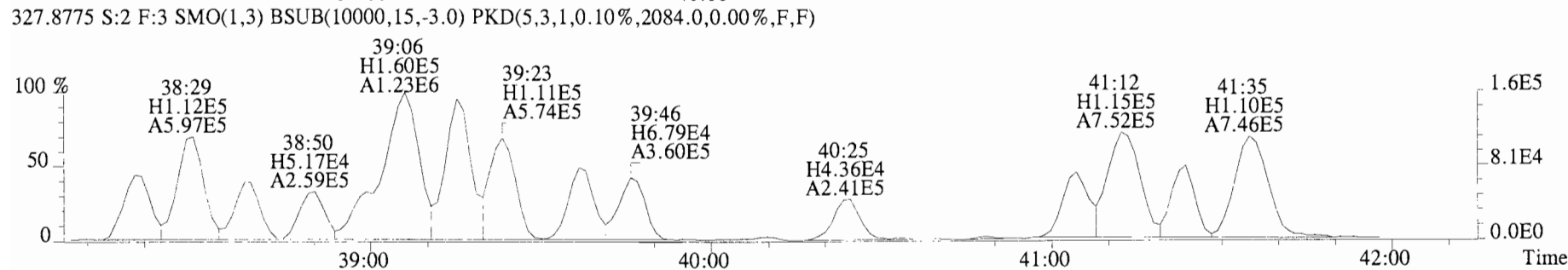
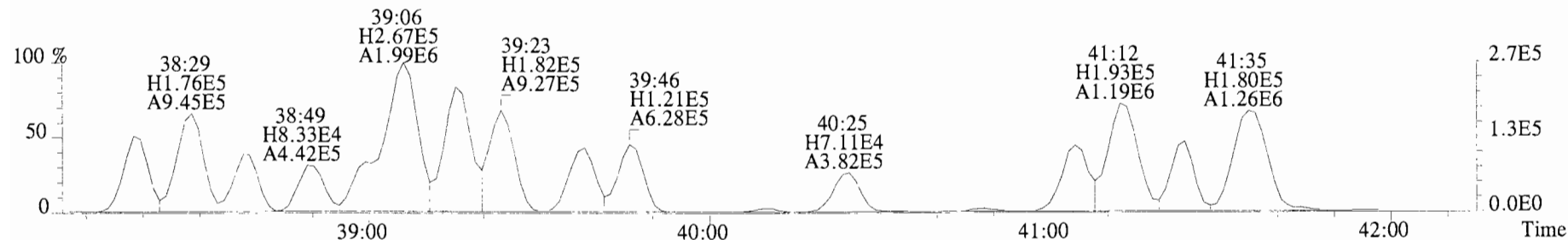
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2264.0,0.00%,F,F)



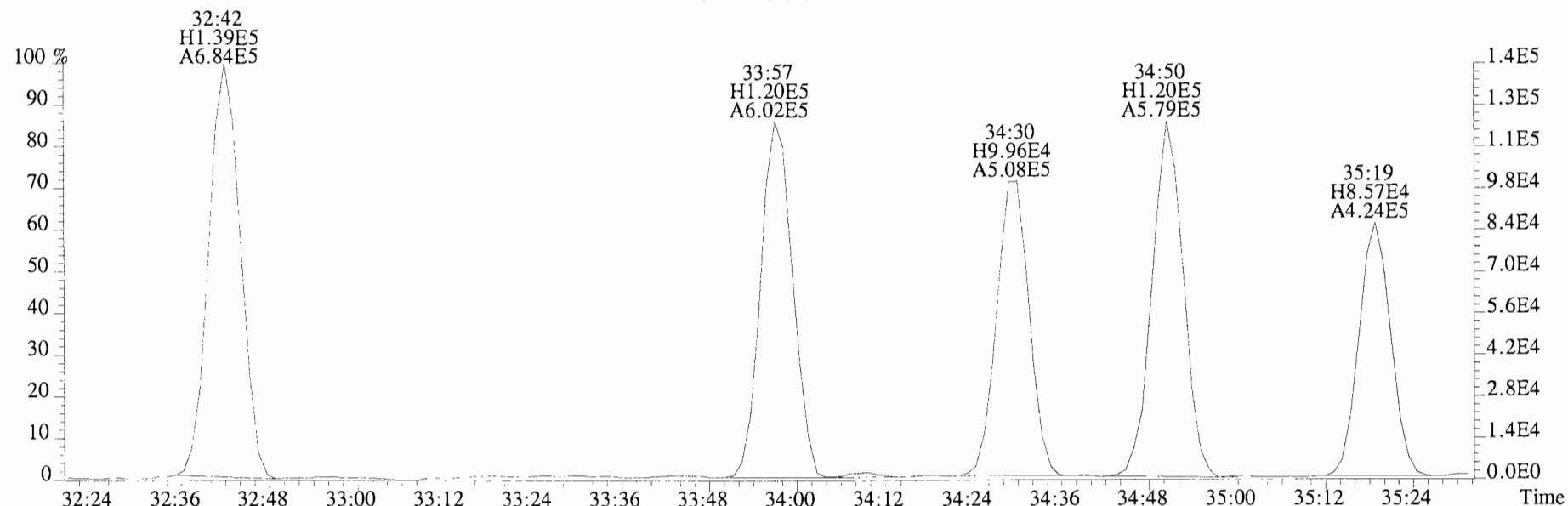
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1912.0,0.00%,F,F)



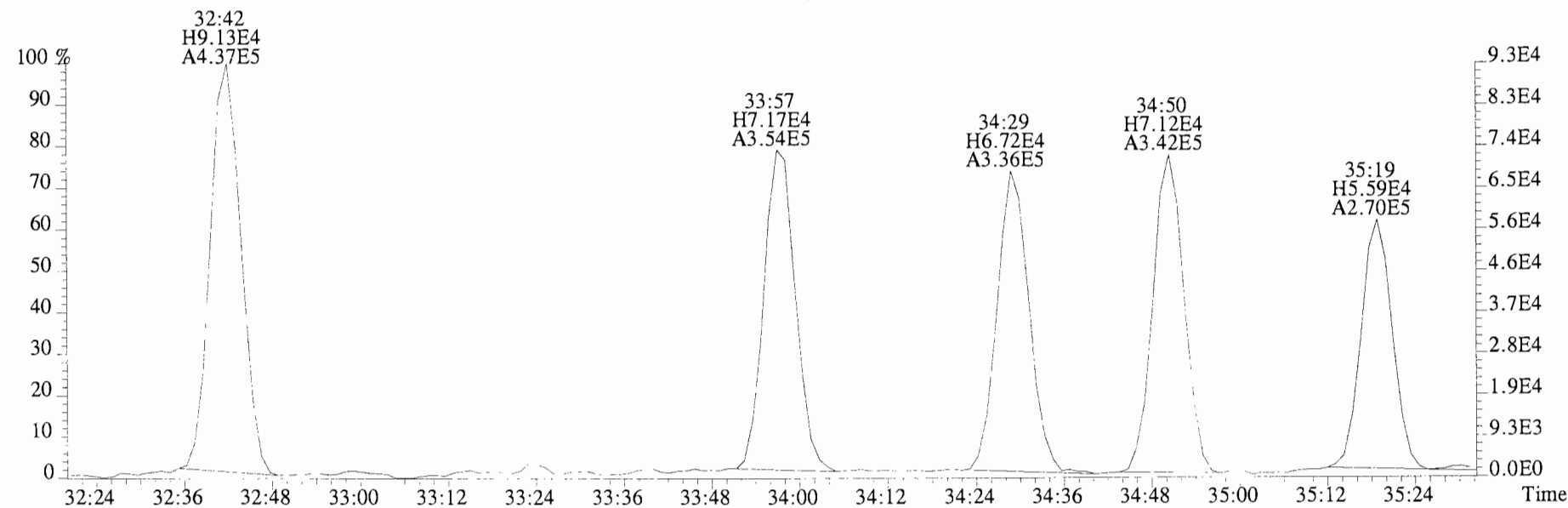
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



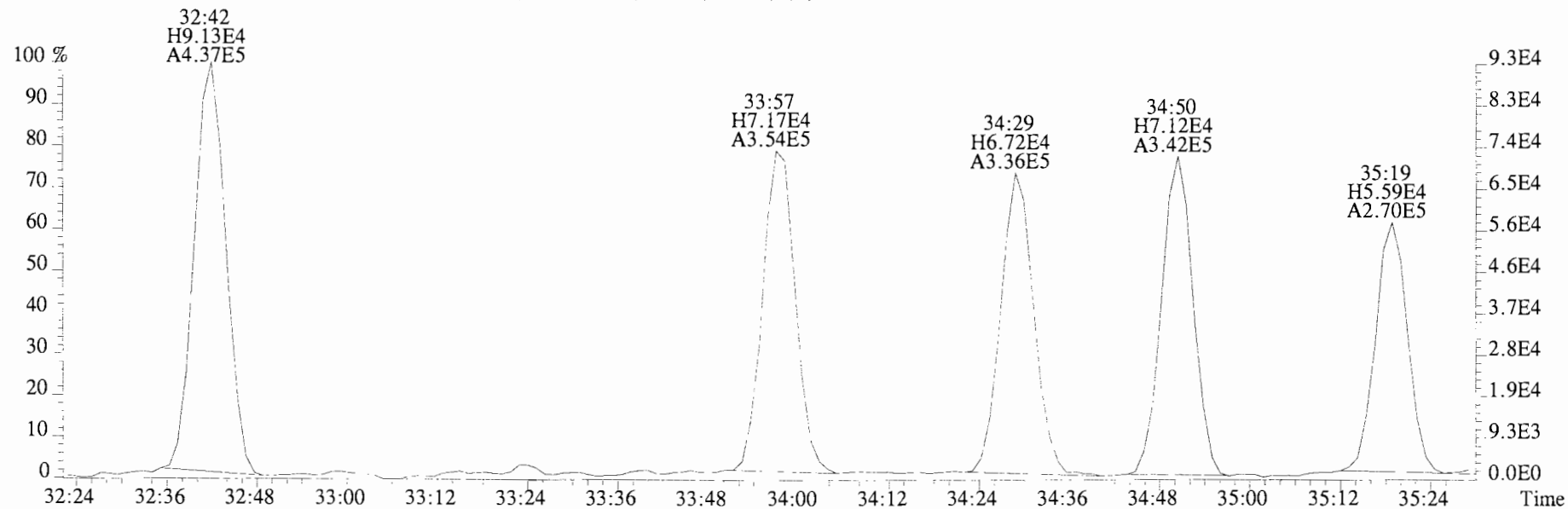
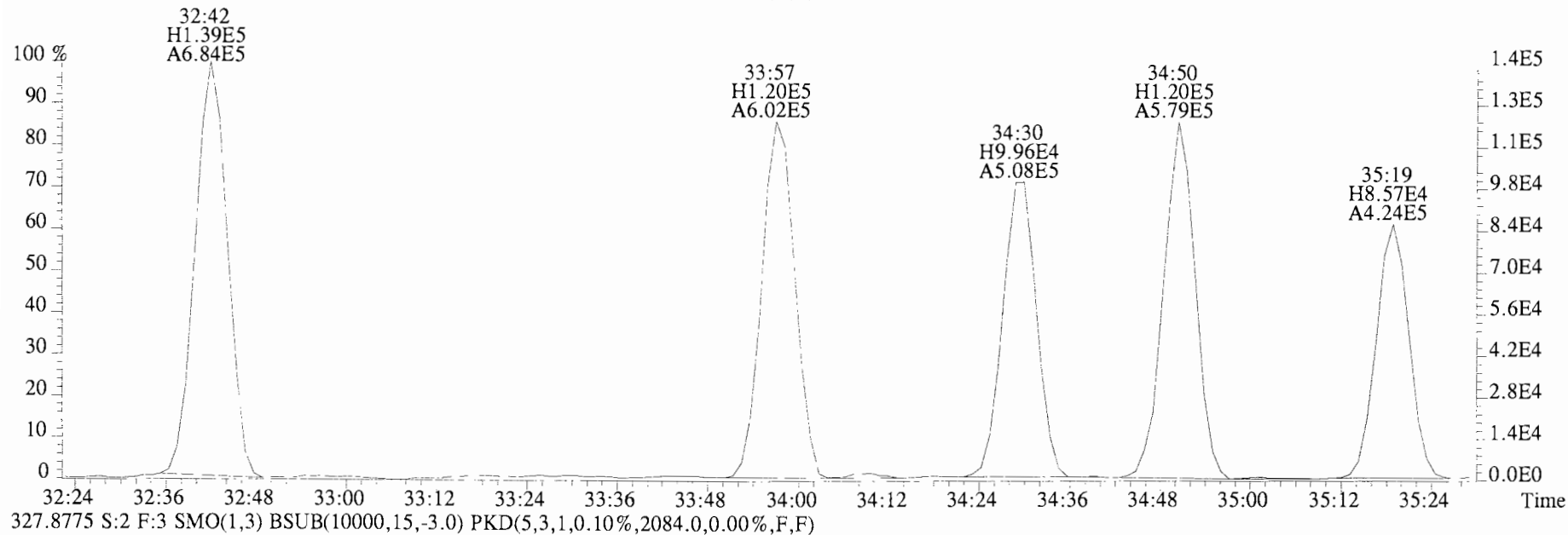
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



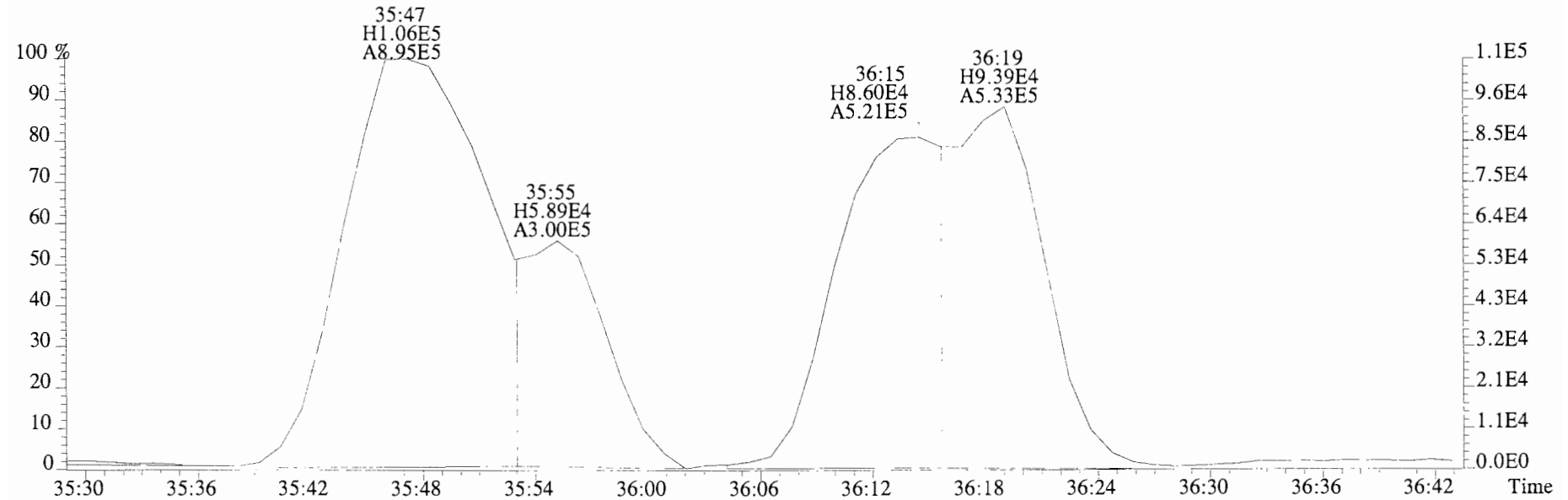
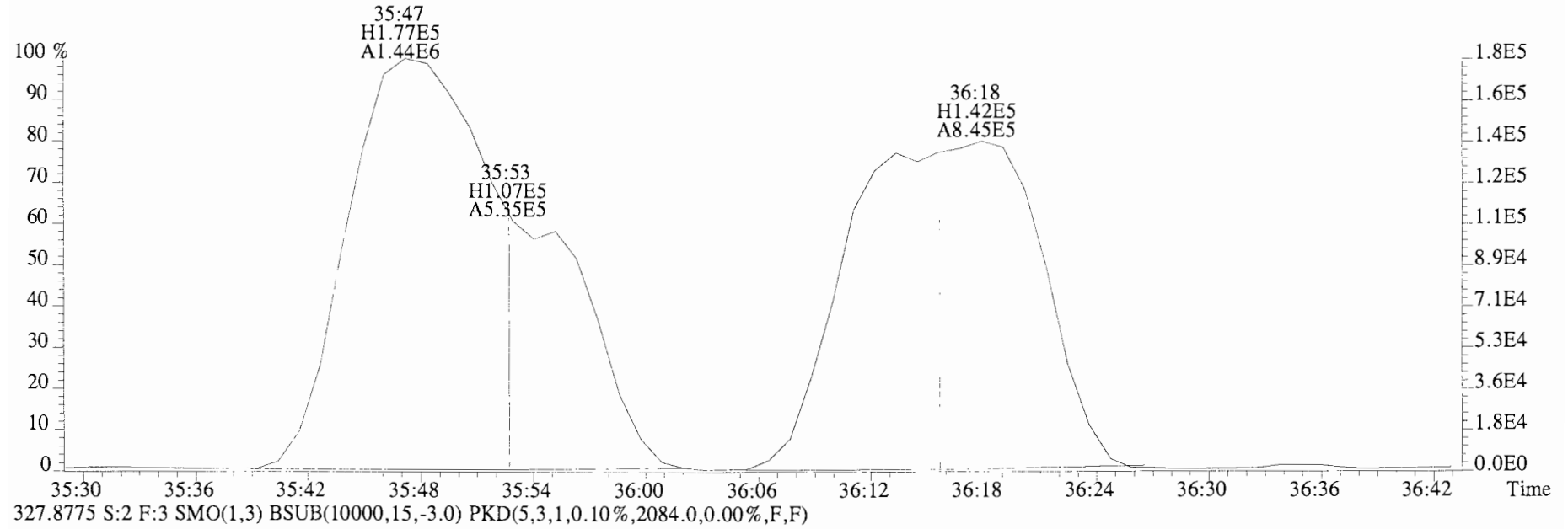
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2084.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)

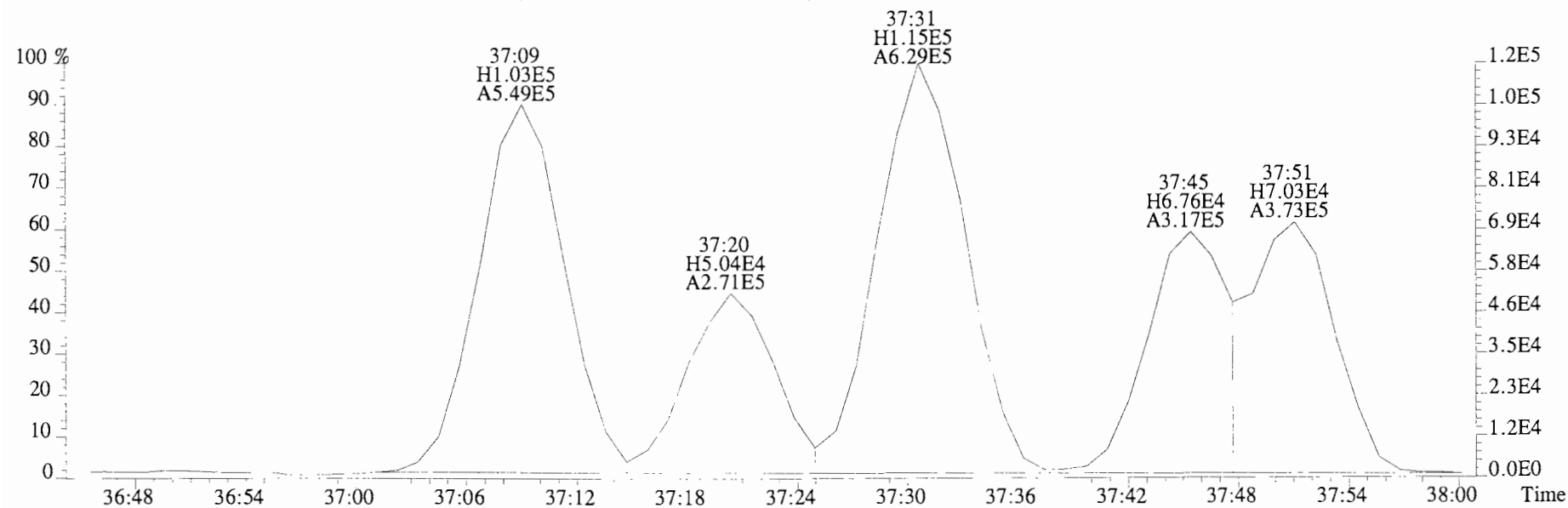
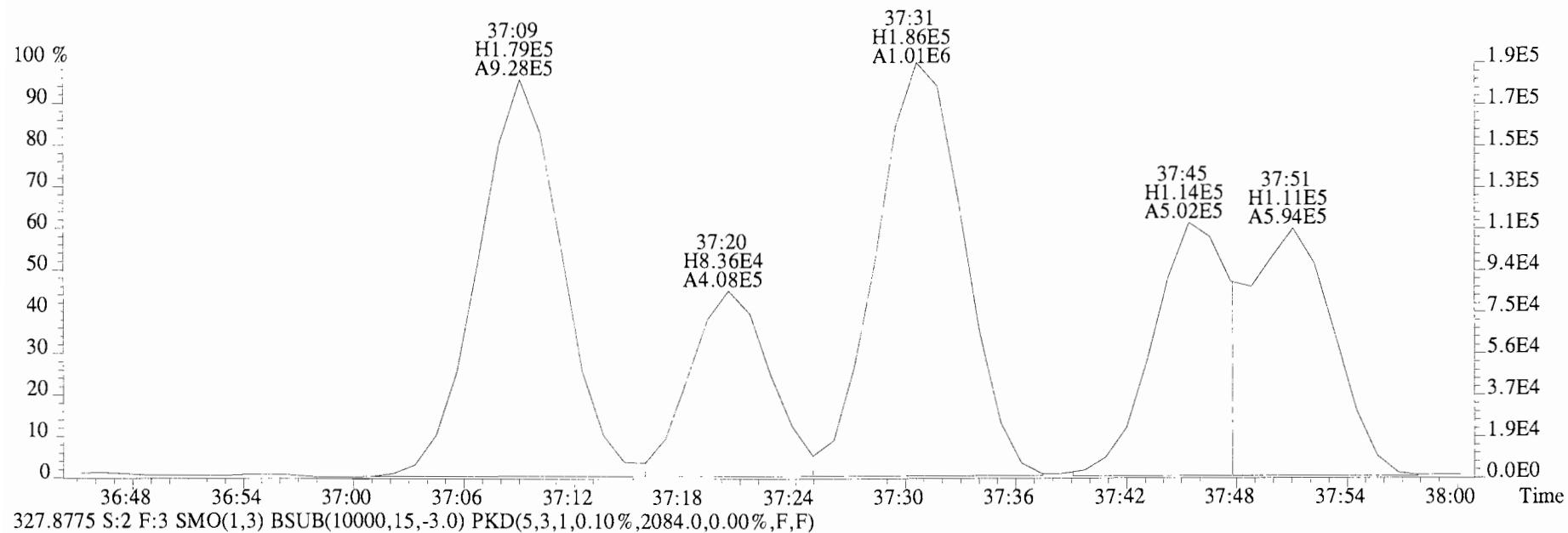


File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)

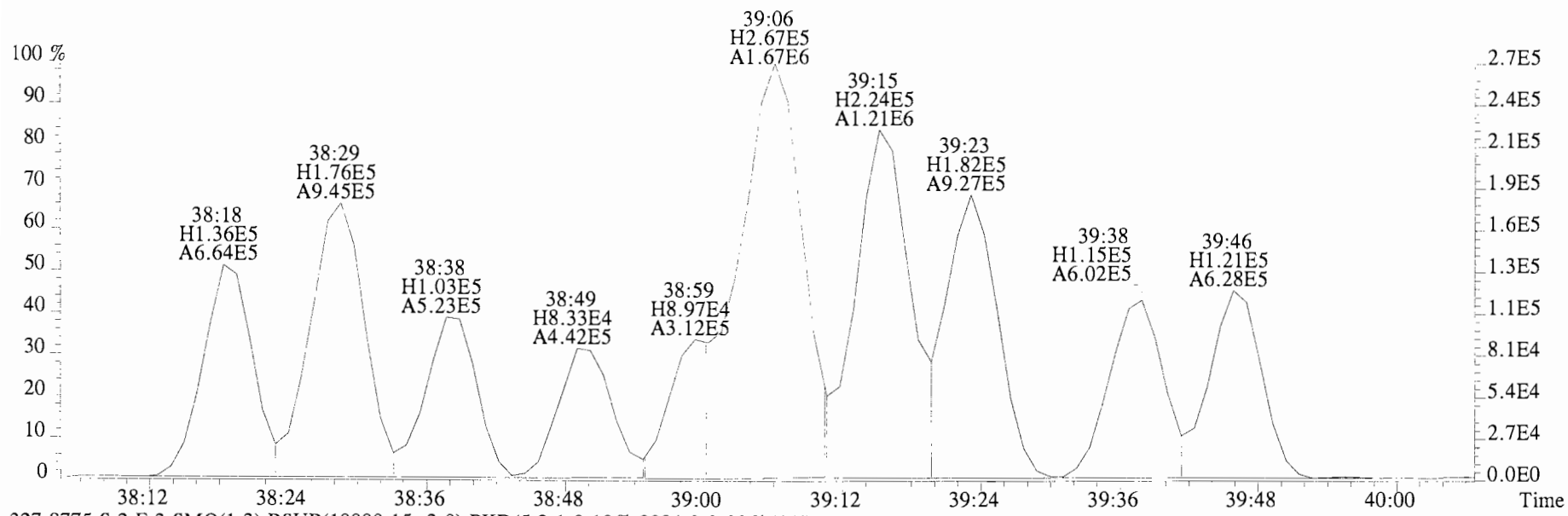




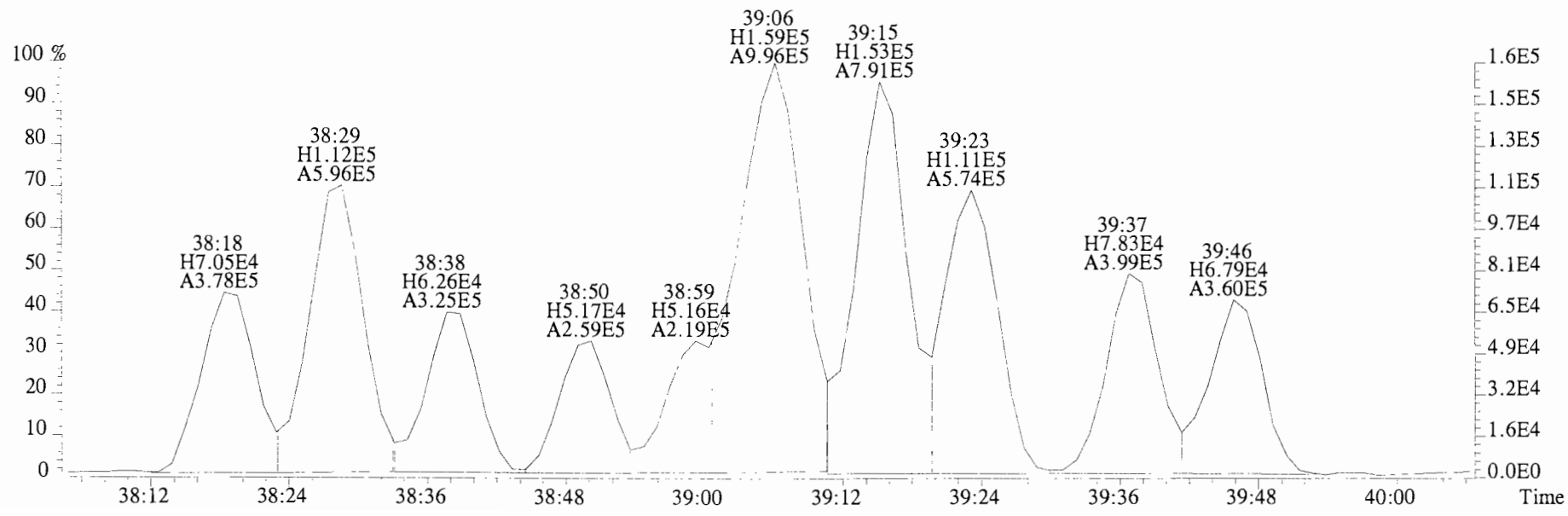
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



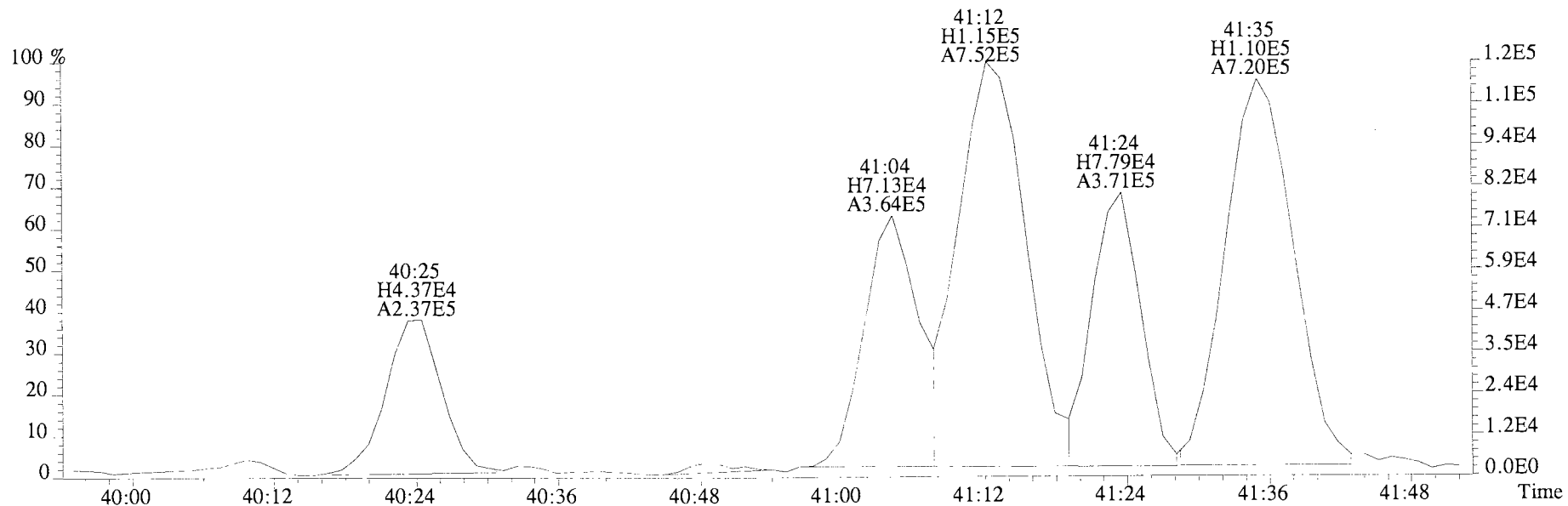
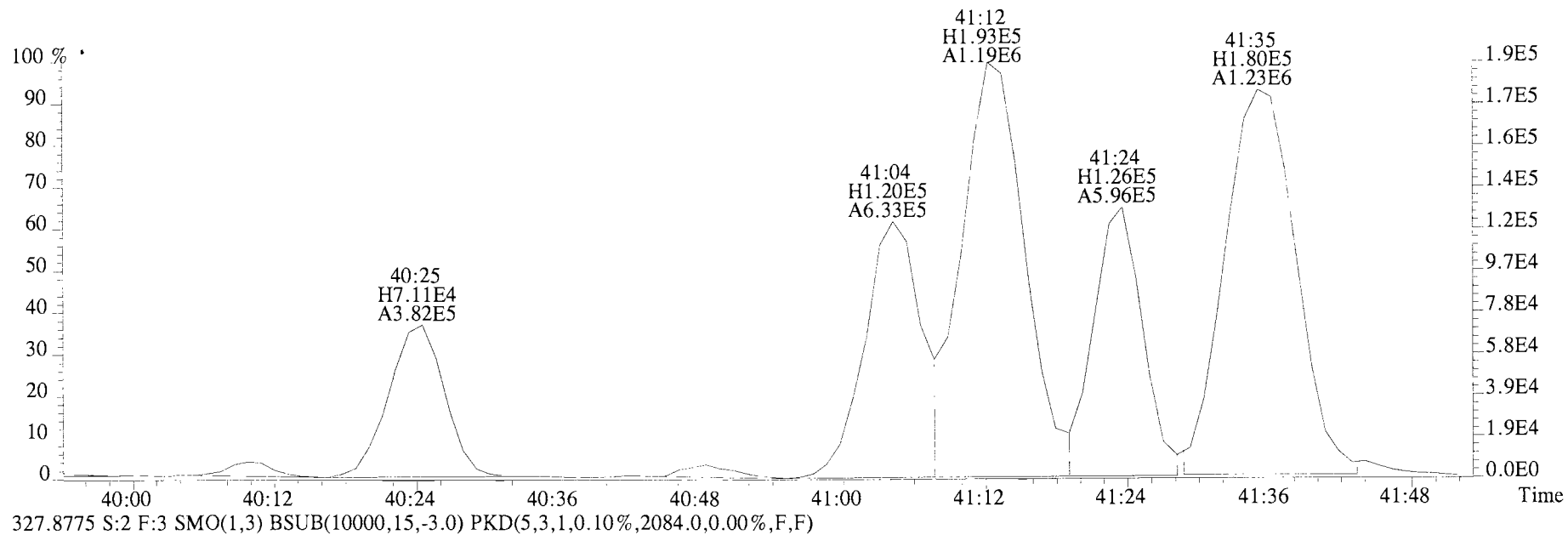
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



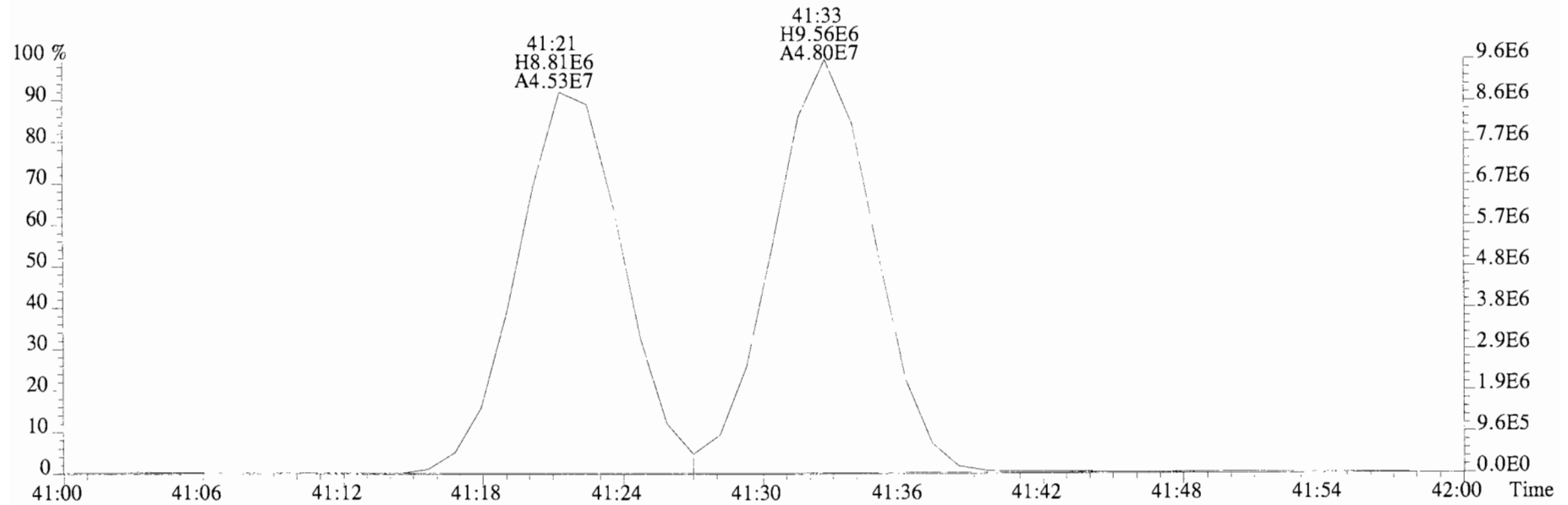
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2084.0,0.00%,F,F)



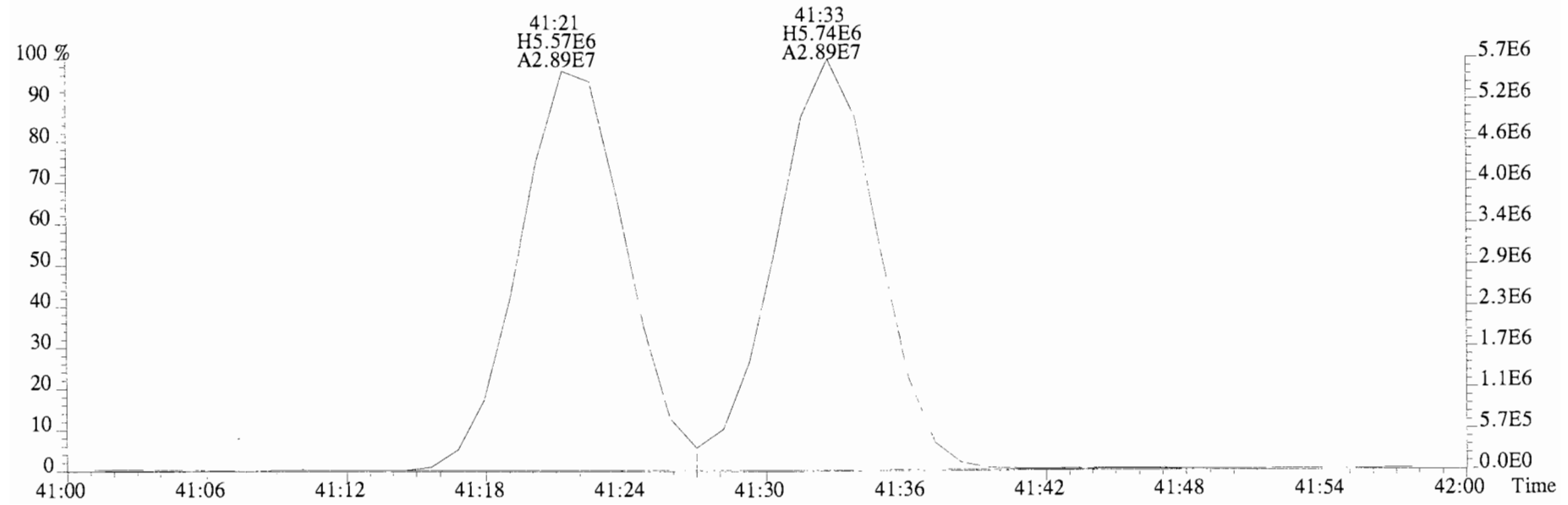
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1692.0,0.00%,F,F)



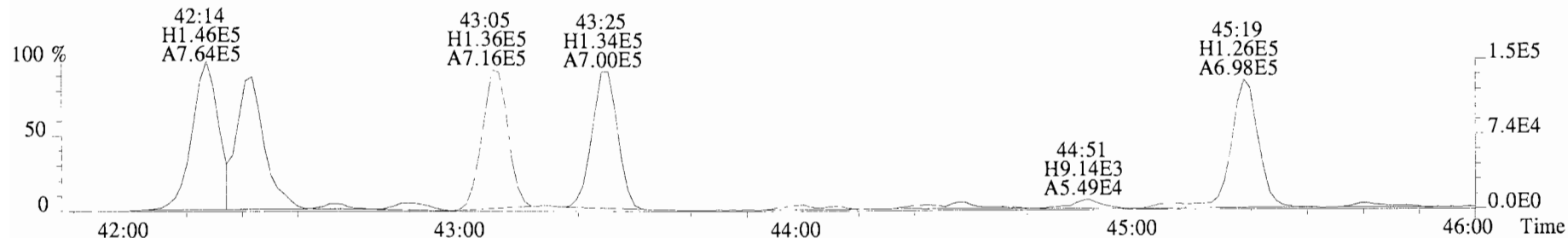
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2264.0,0.00%,F,F)



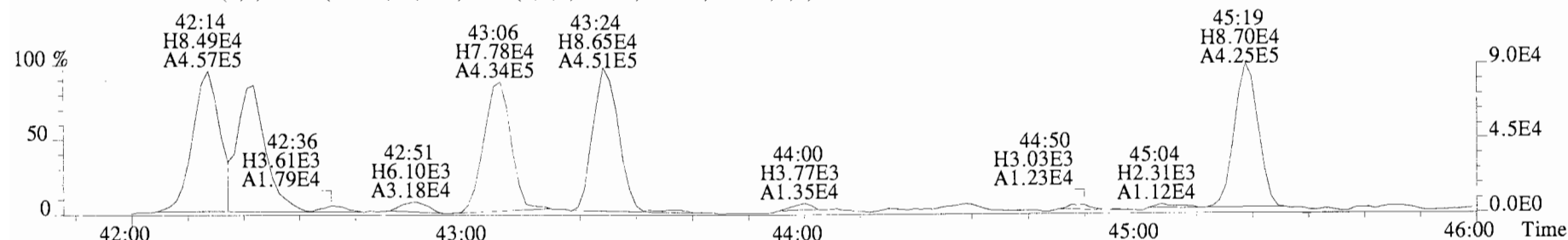
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1912.0,0.00%,F,F)



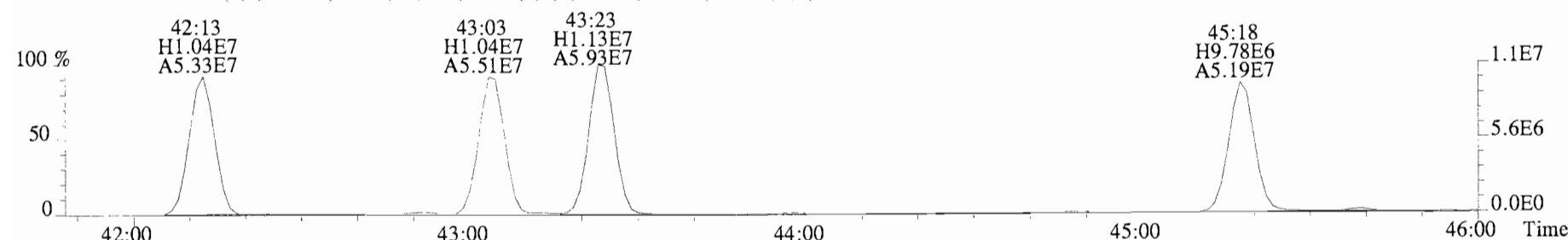
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1452.0,0.00%,F,F)



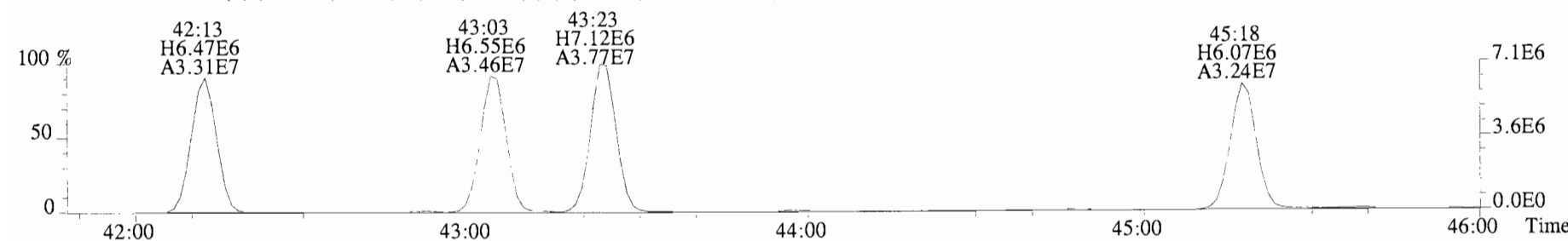
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2696.0,0.00%,F,F)



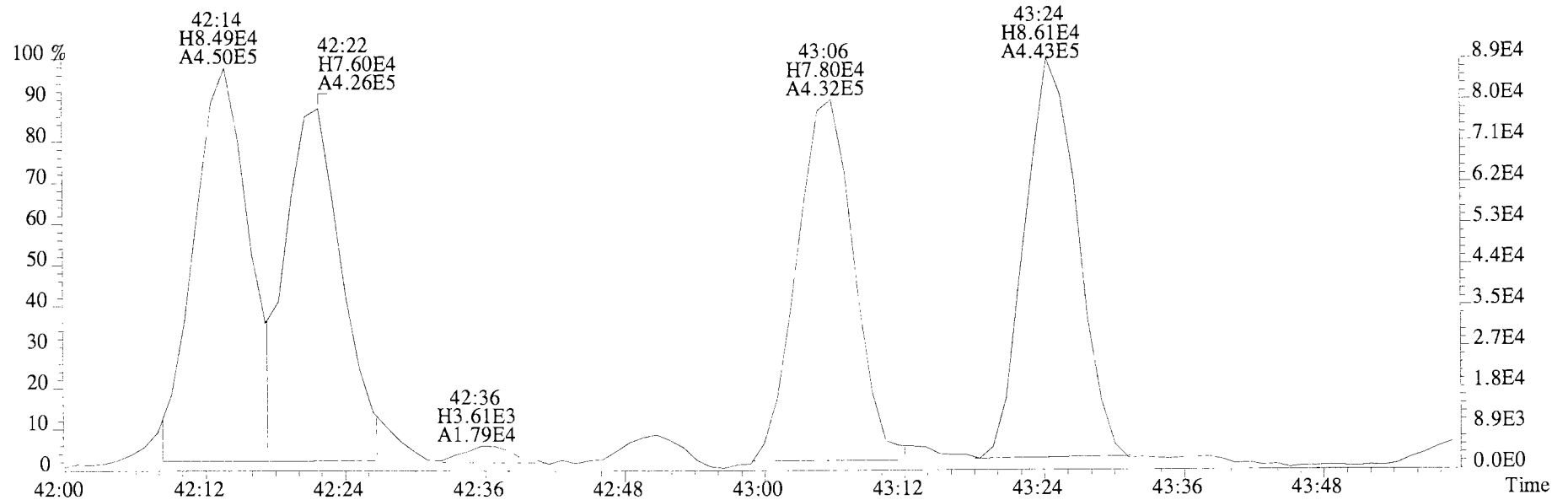
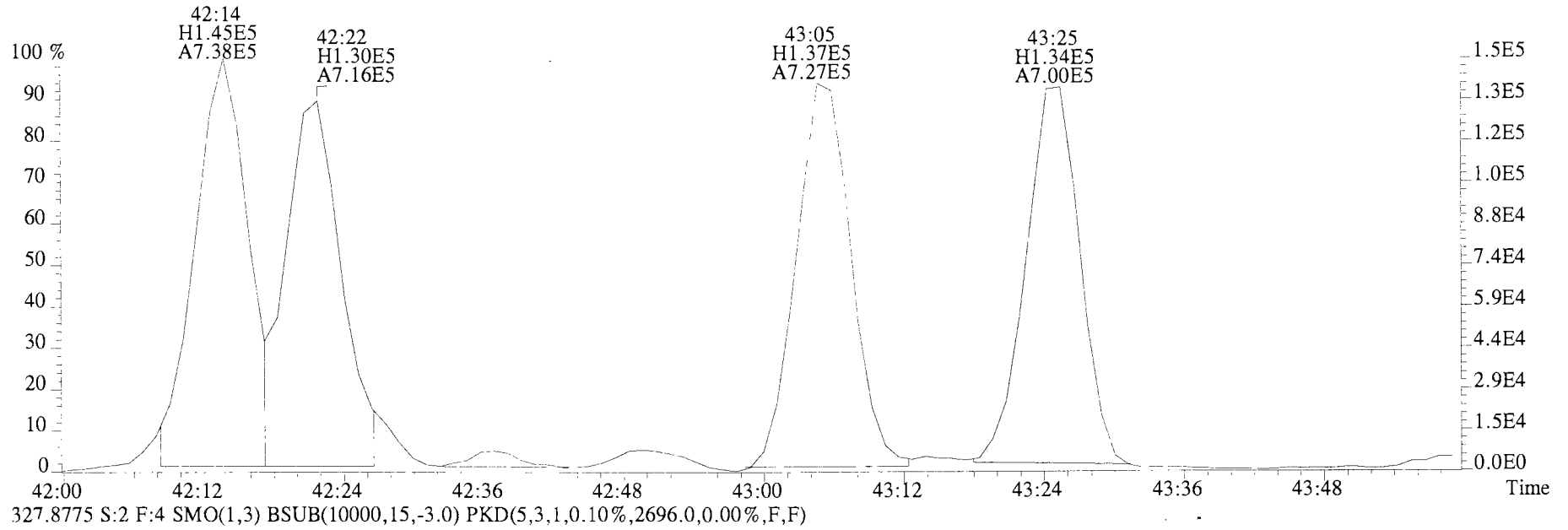
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9020.0,0.00%,F,F)



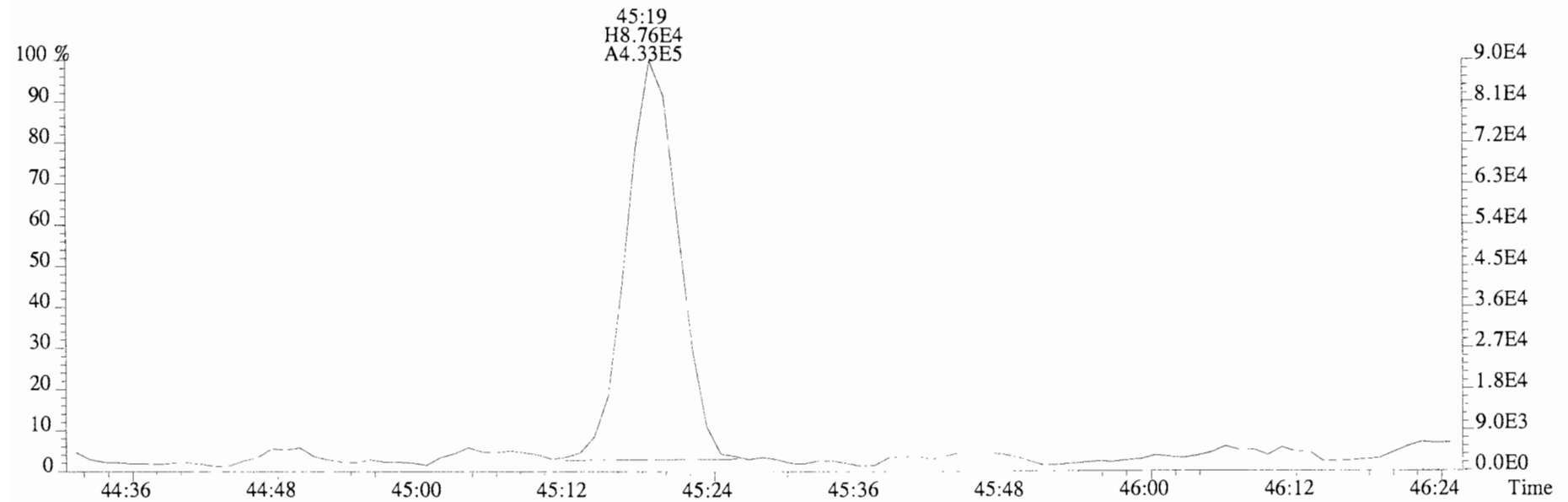
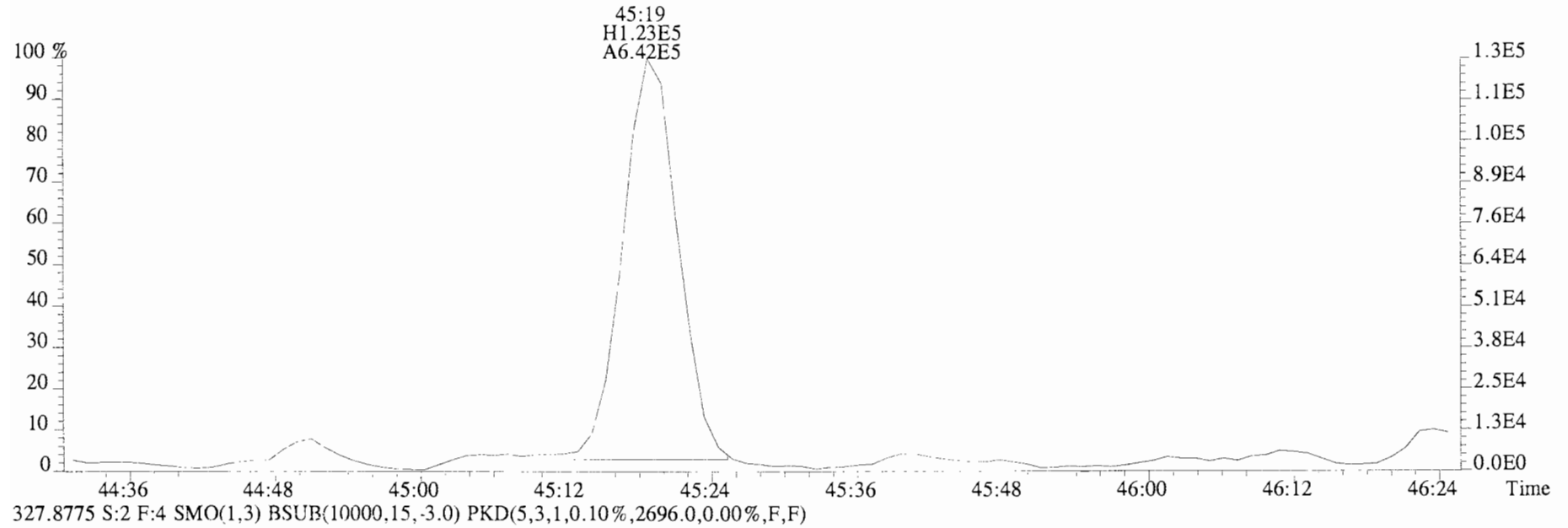
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9484.0,0.00%,F,F)



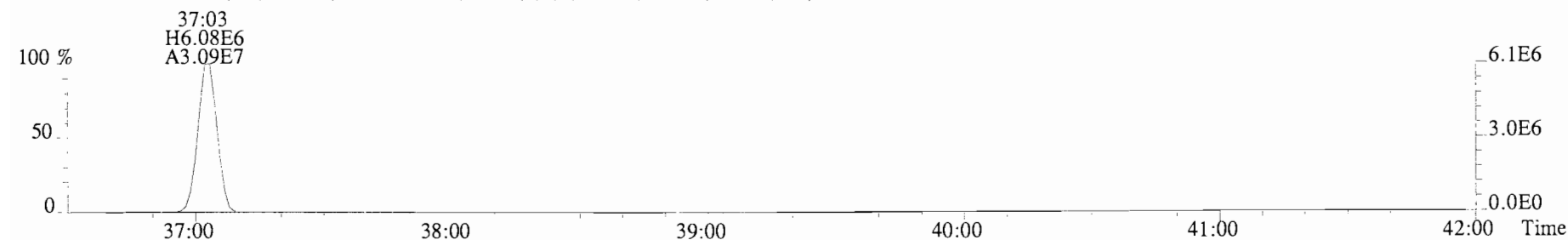
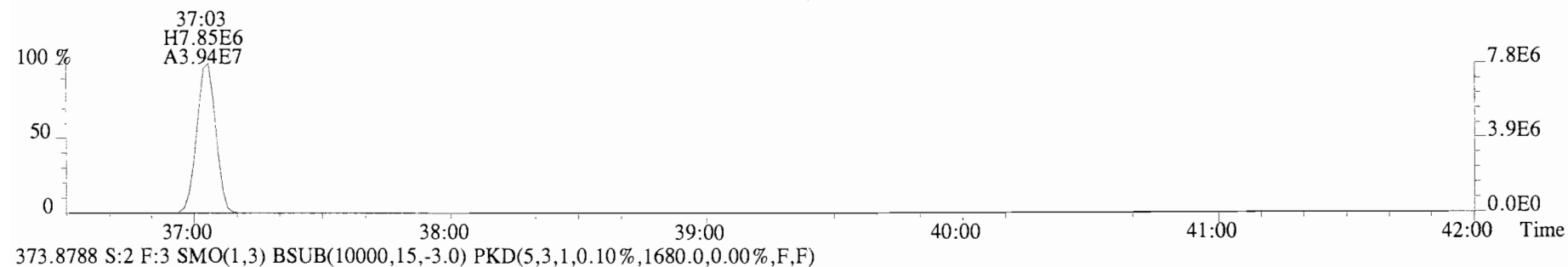
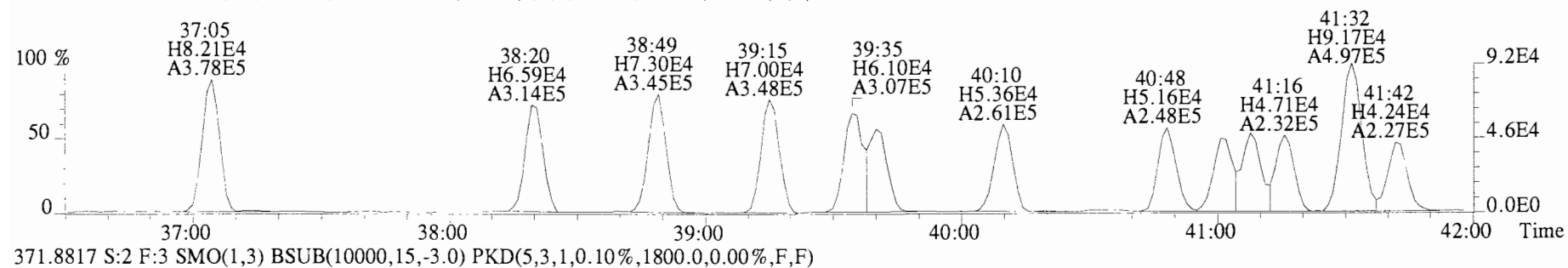
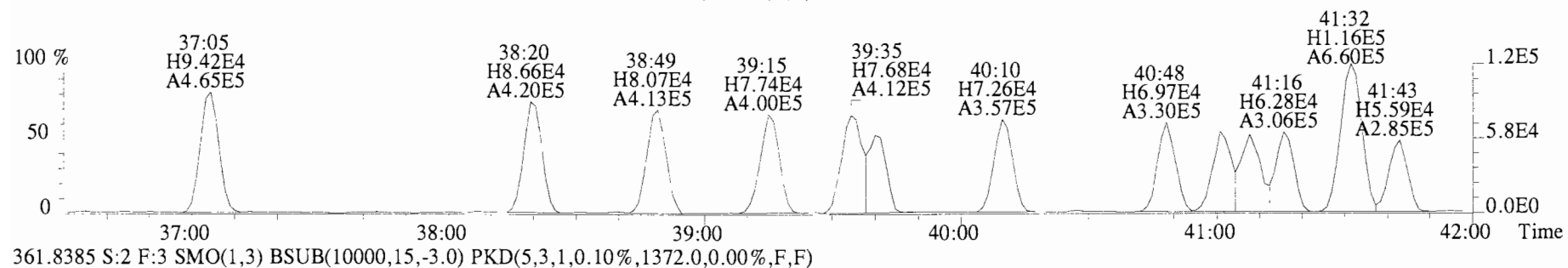
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1452.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1452.0,0.00%,F,F)

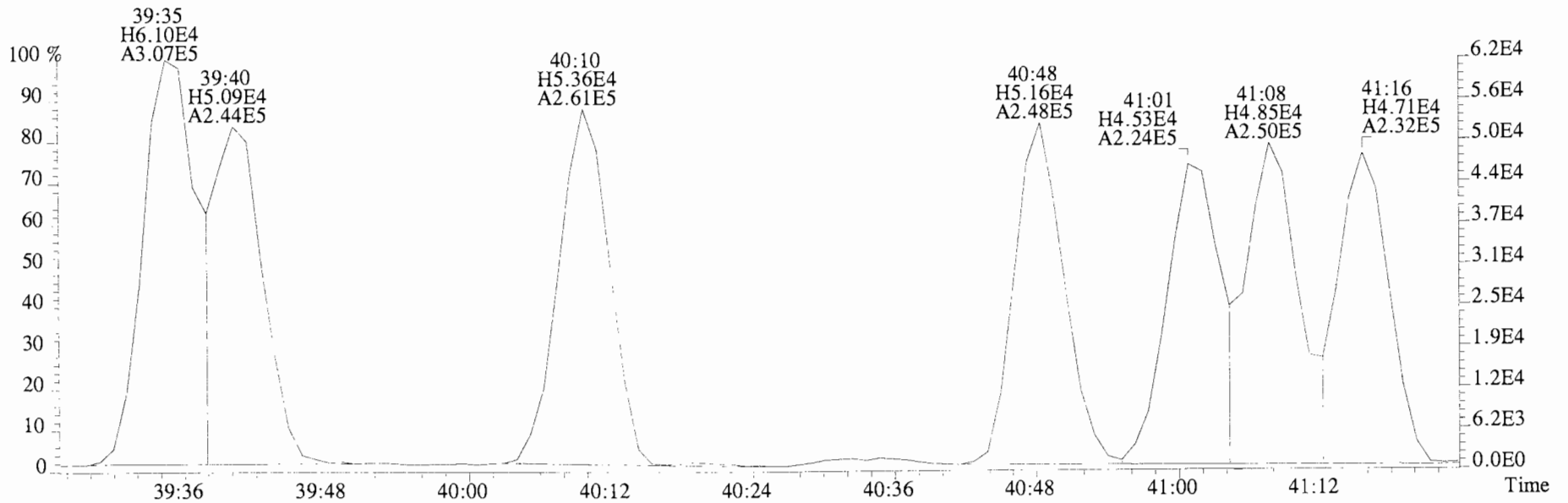
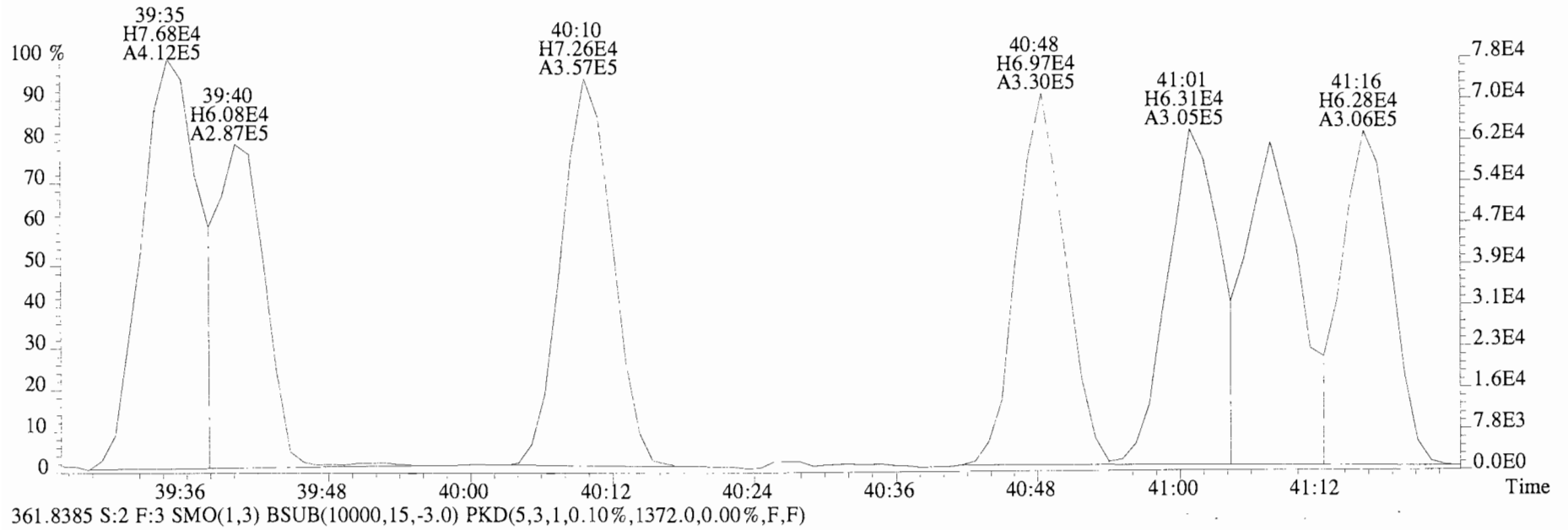


File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1468.0,0.00%,F,F)

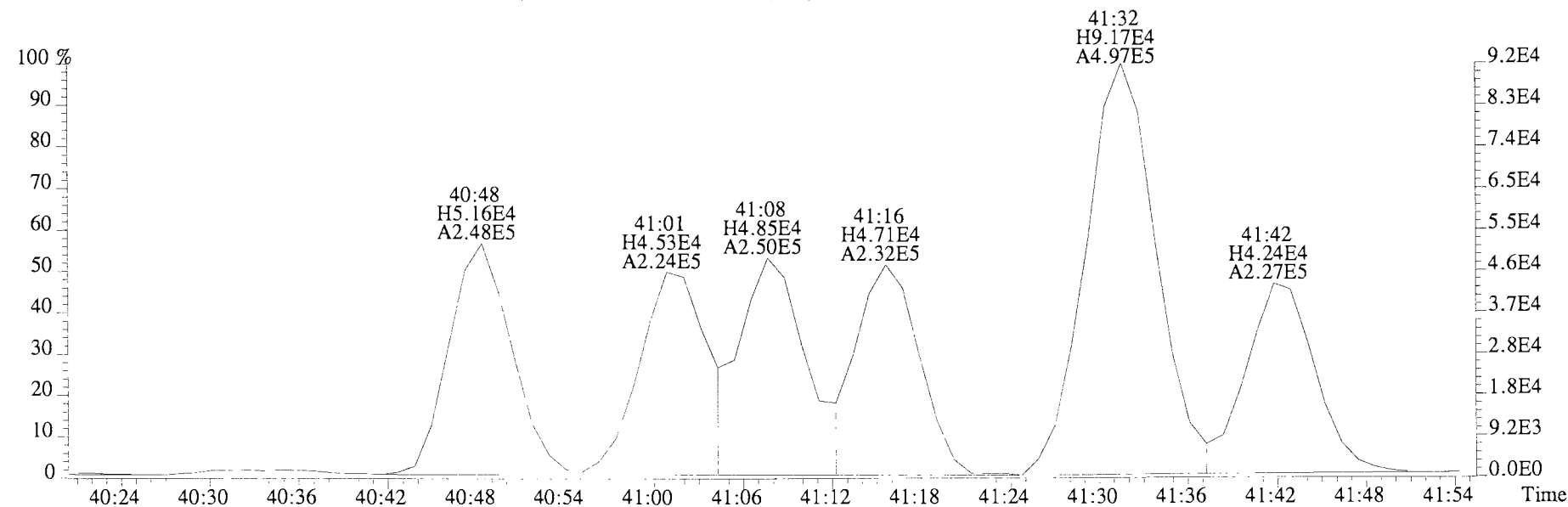
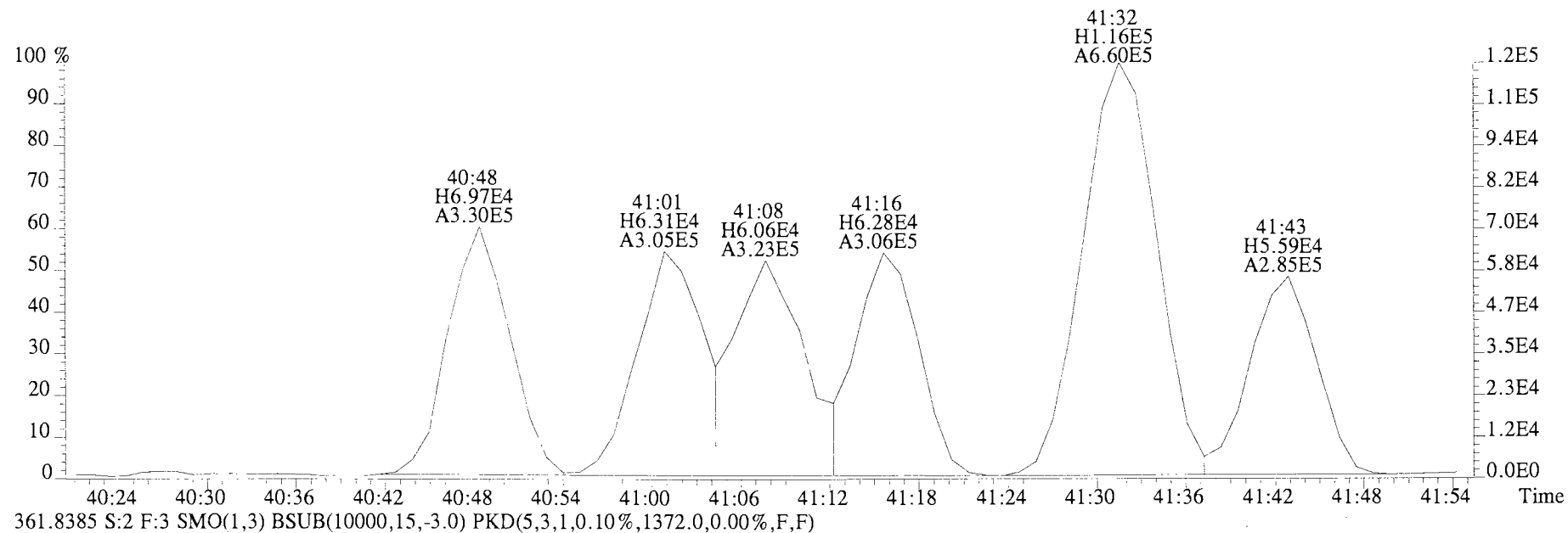




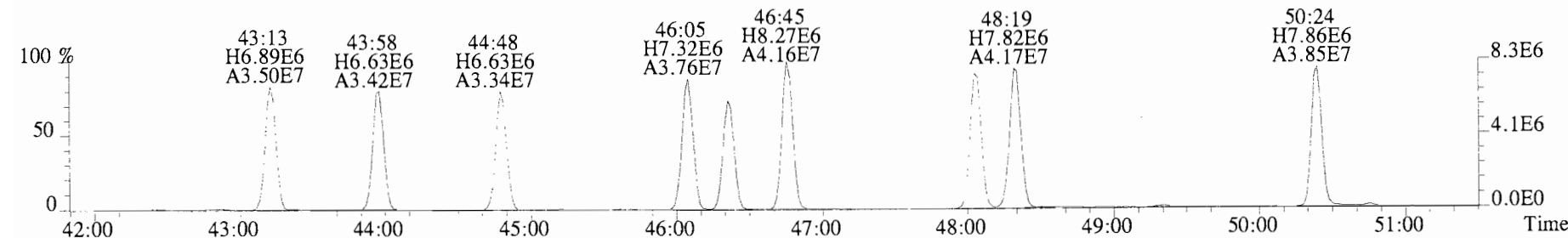
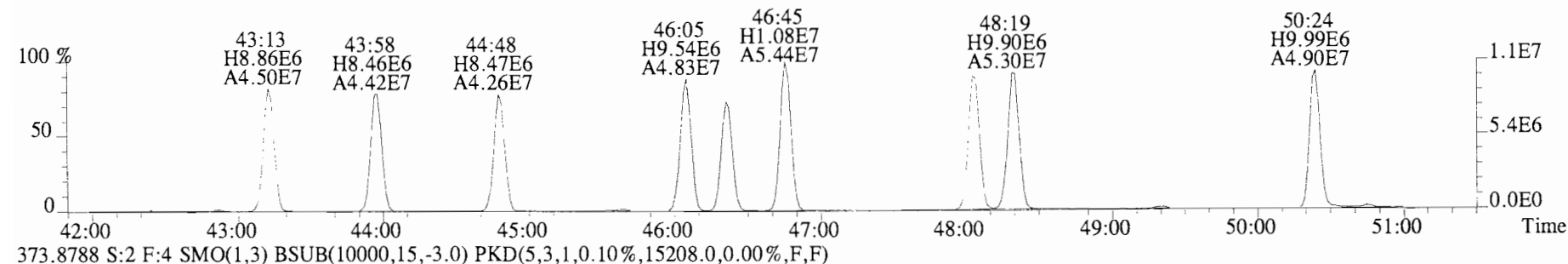
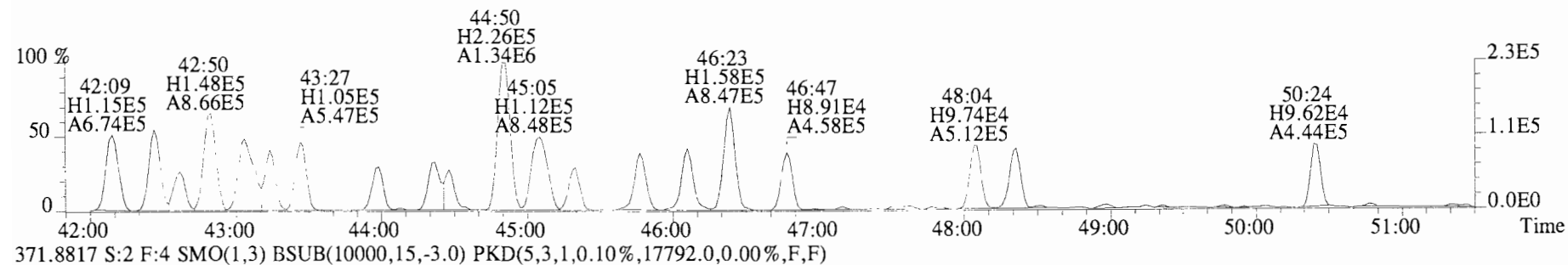
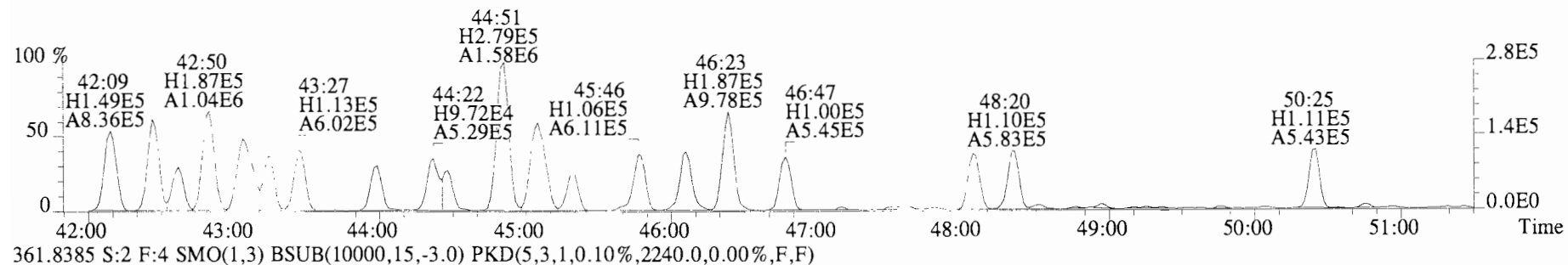
File:140620E1 #1-767 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1468.0,0.00%,F,F)



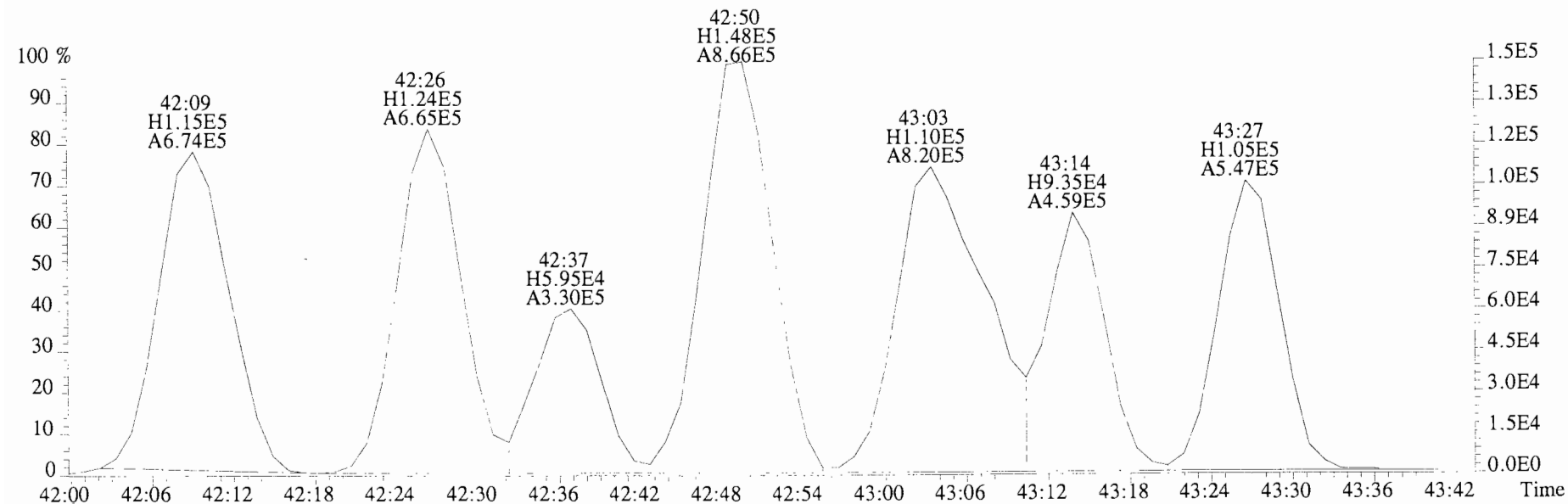
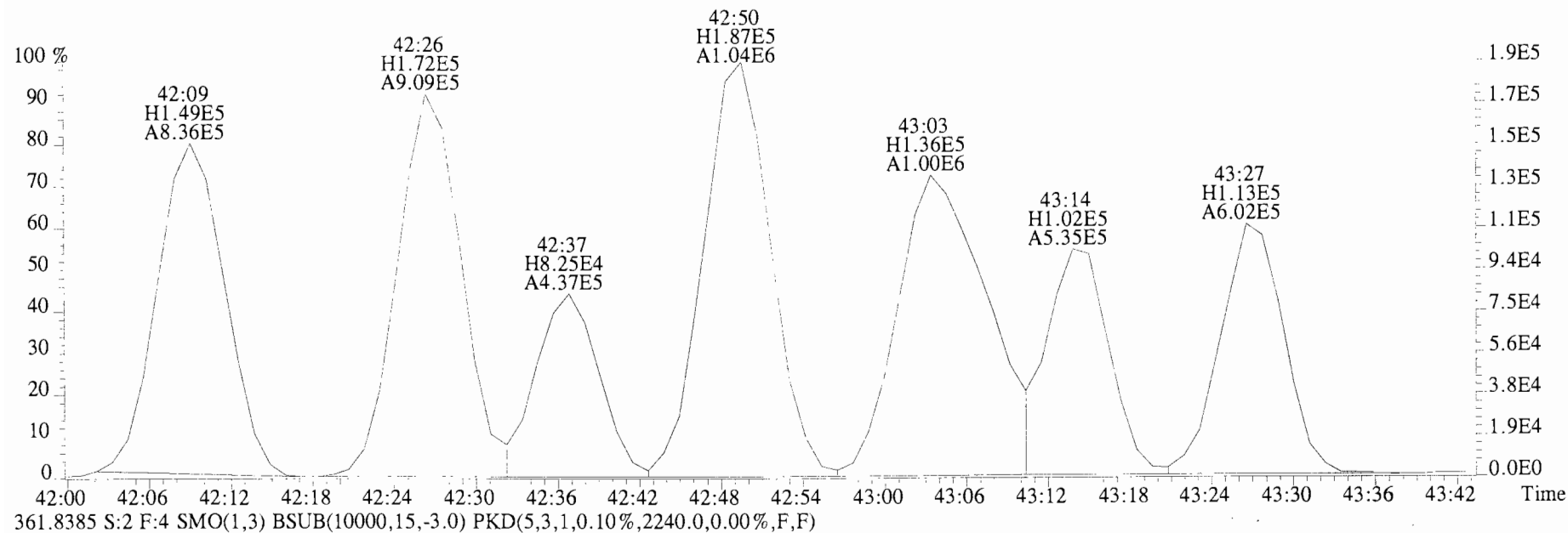
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1468.0,0.00%,F,F)



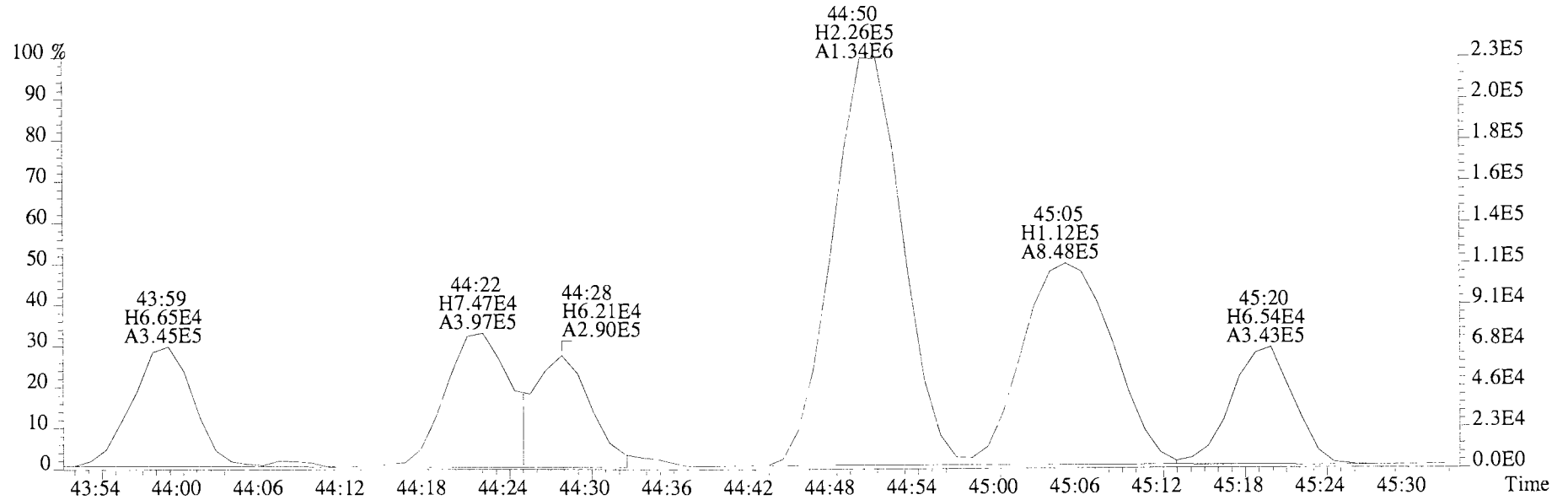
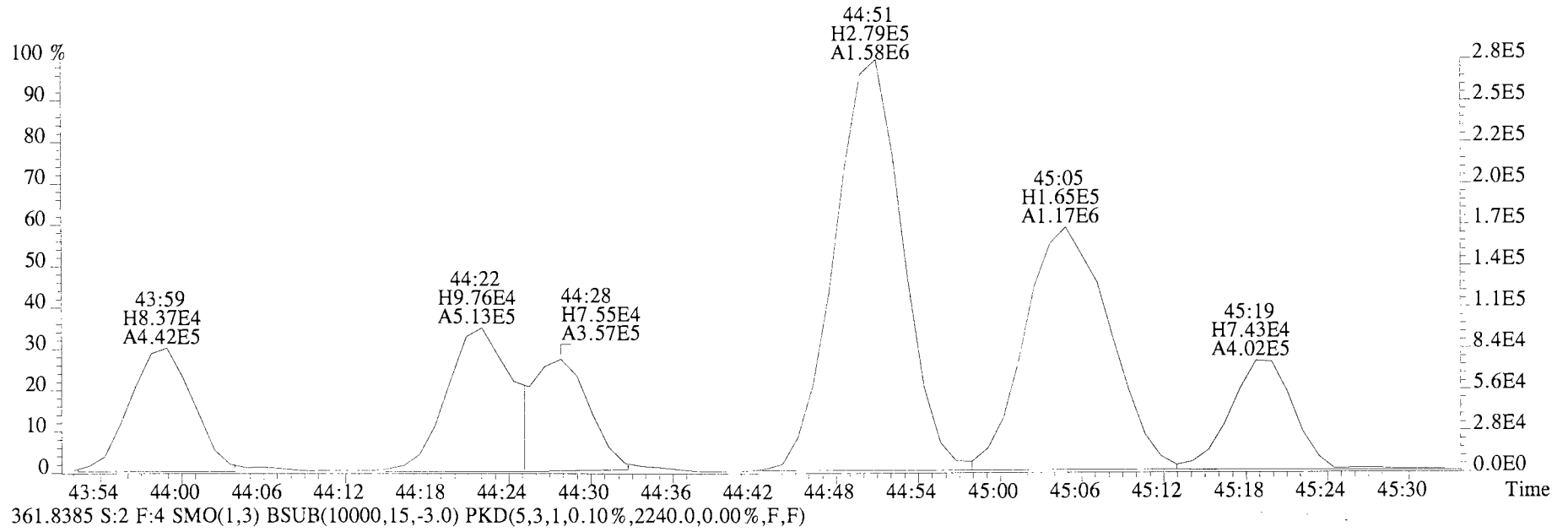
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2388.0,0.00%,F,F)



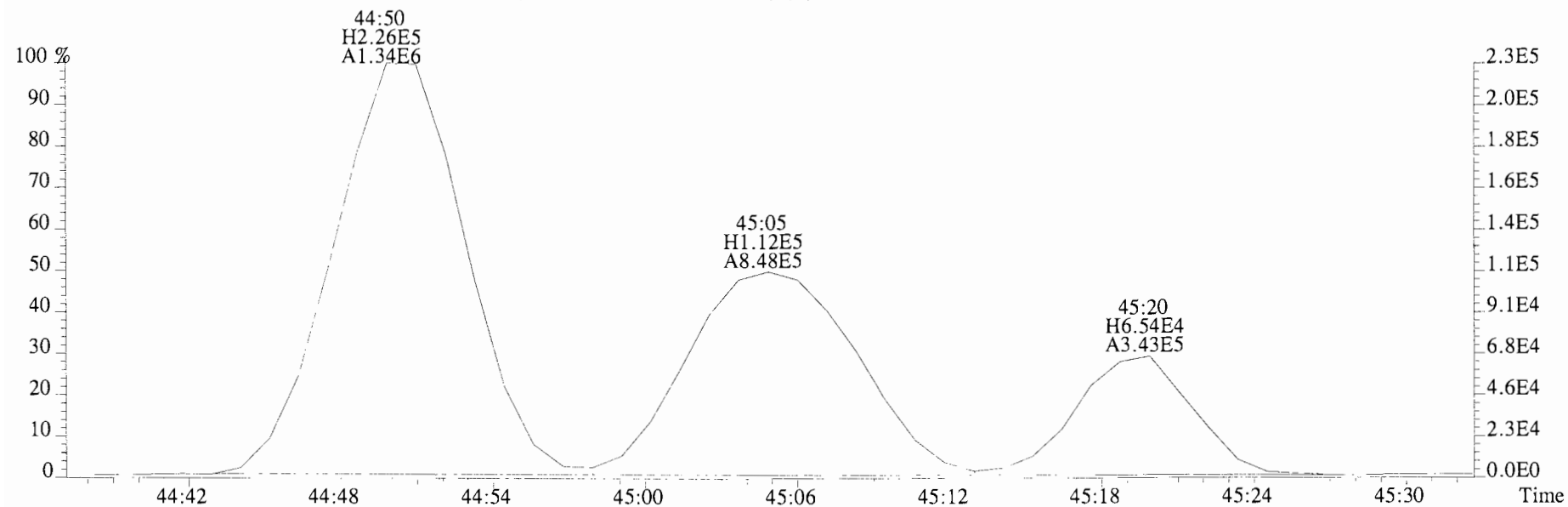
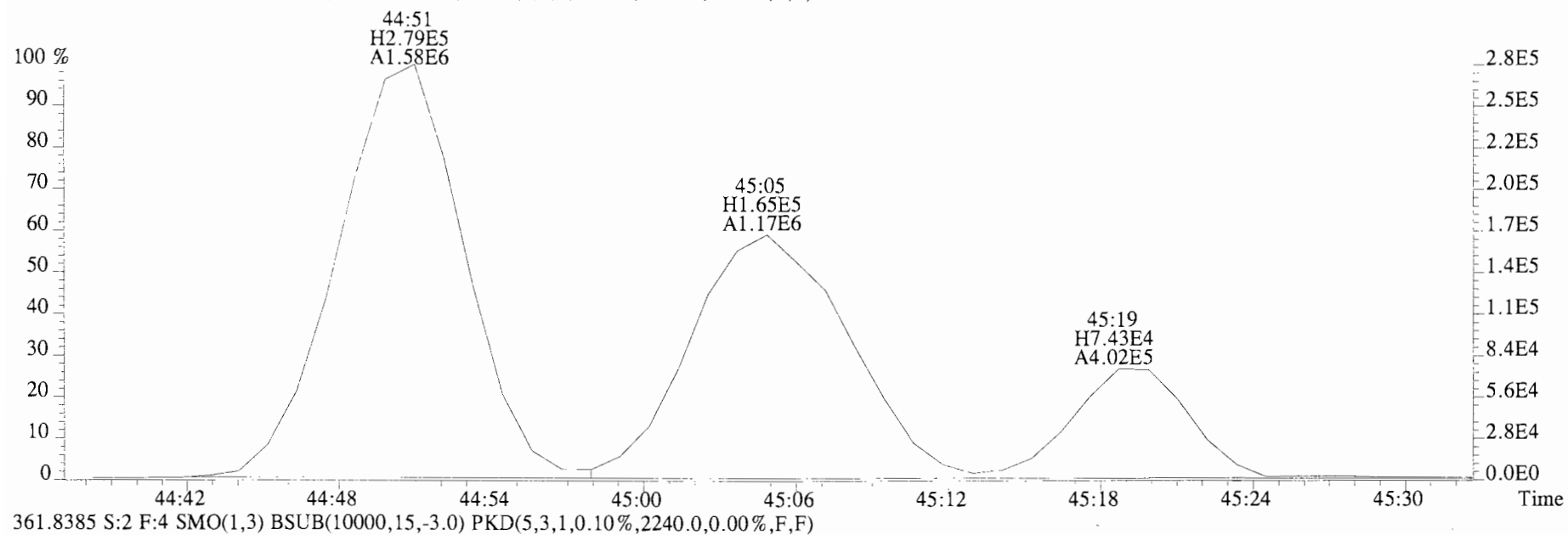
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
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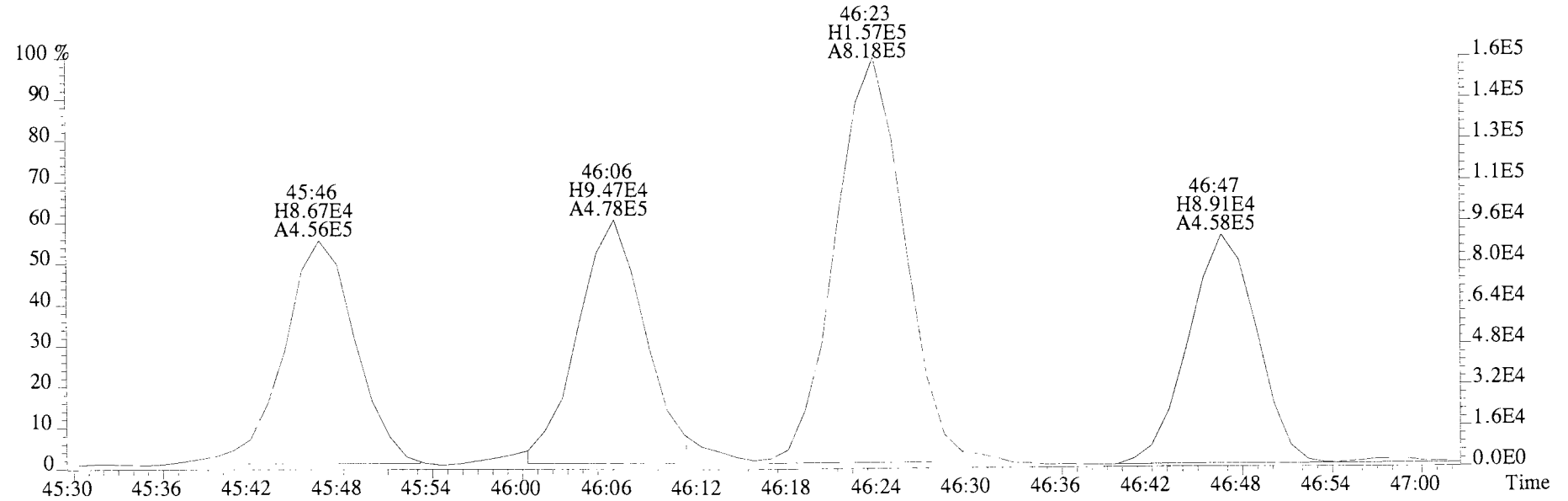
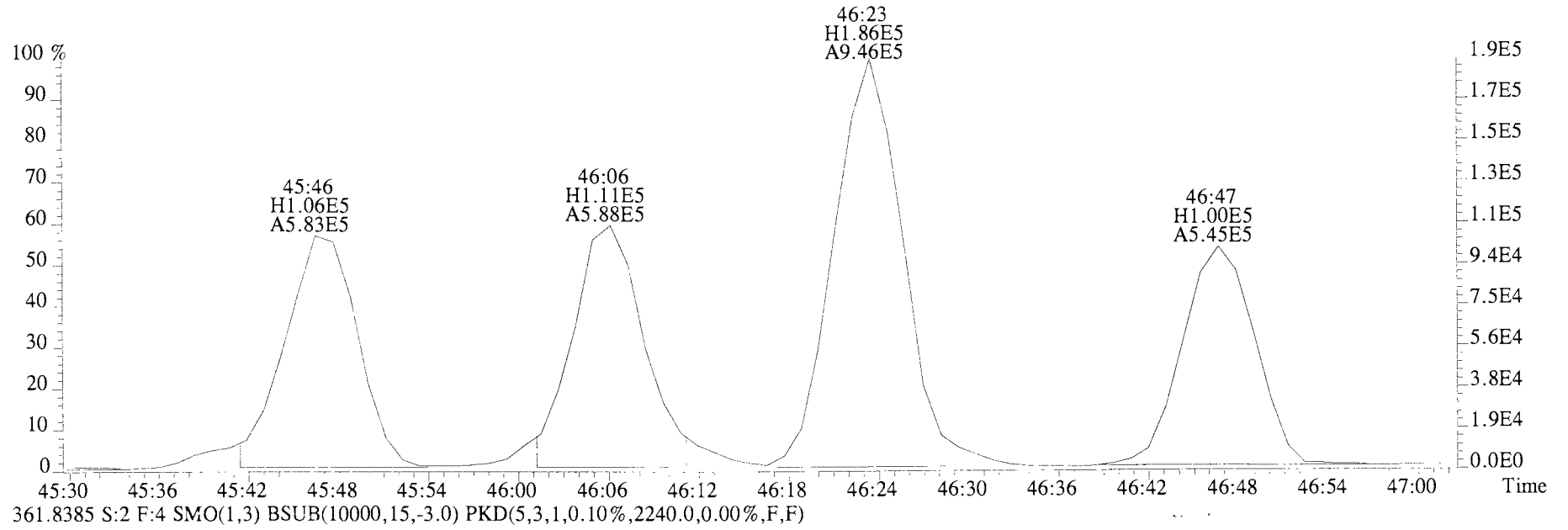
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
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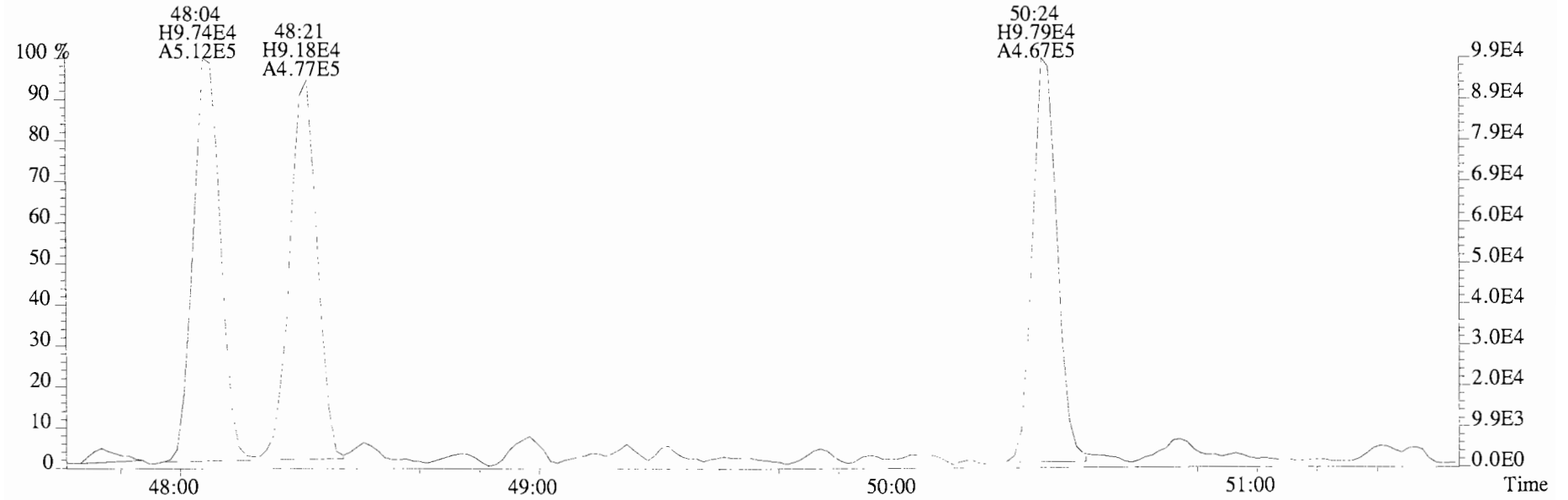
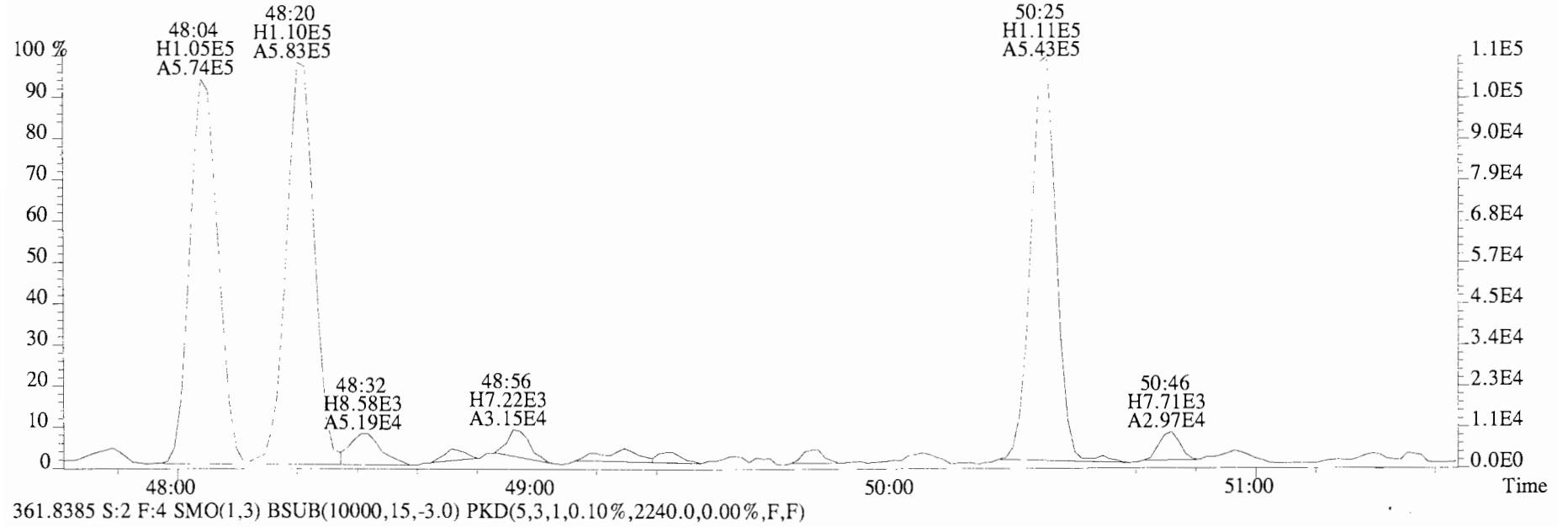
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2388.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2388.0,0.00%,F,F)

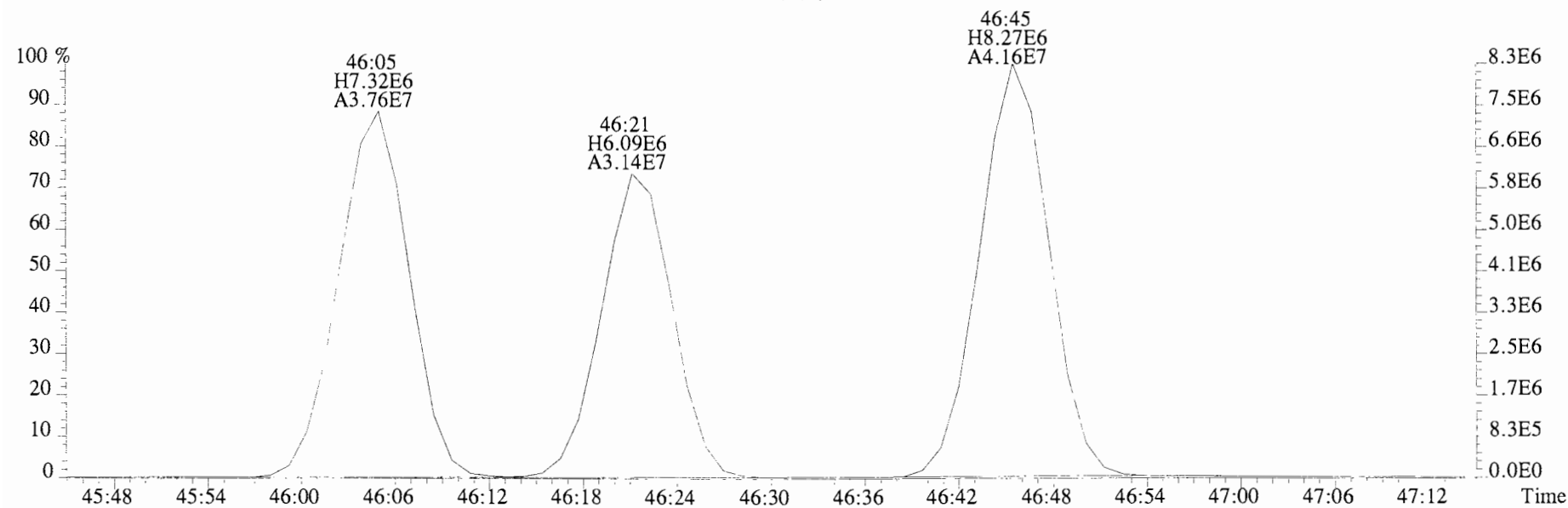
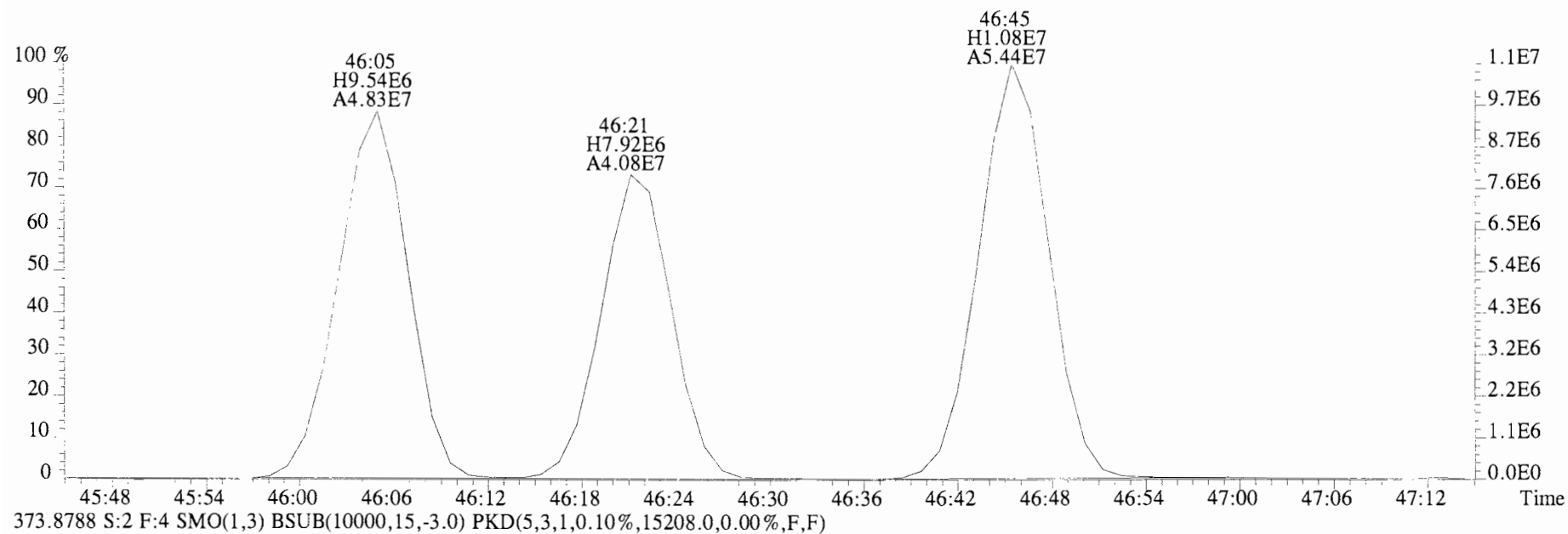


File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
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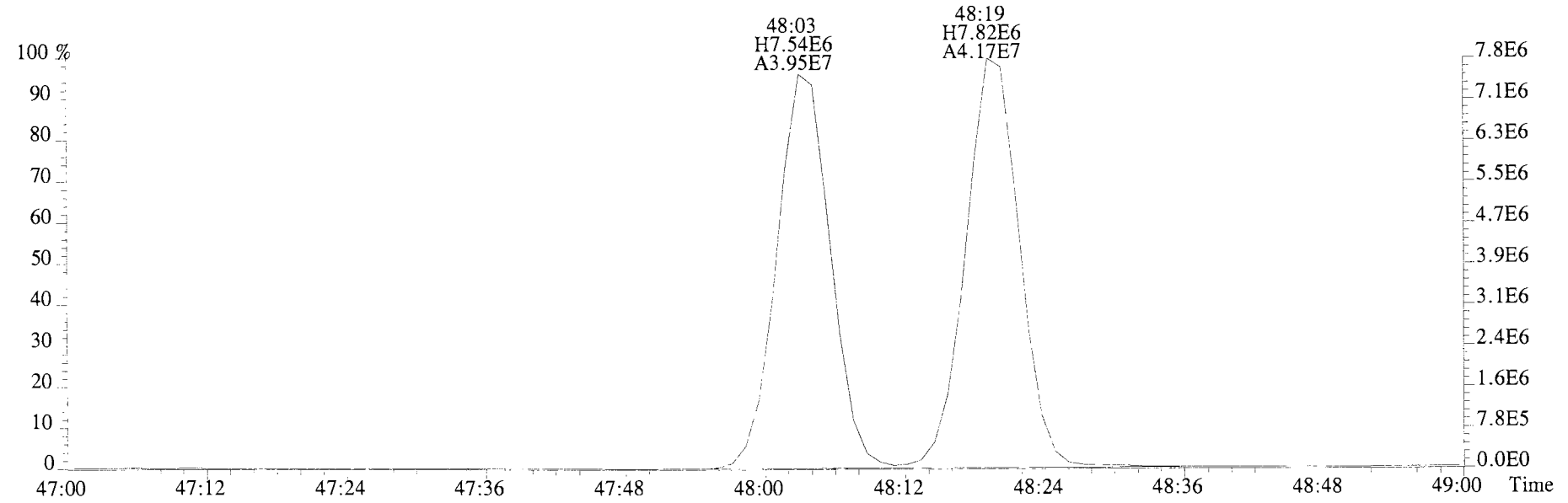
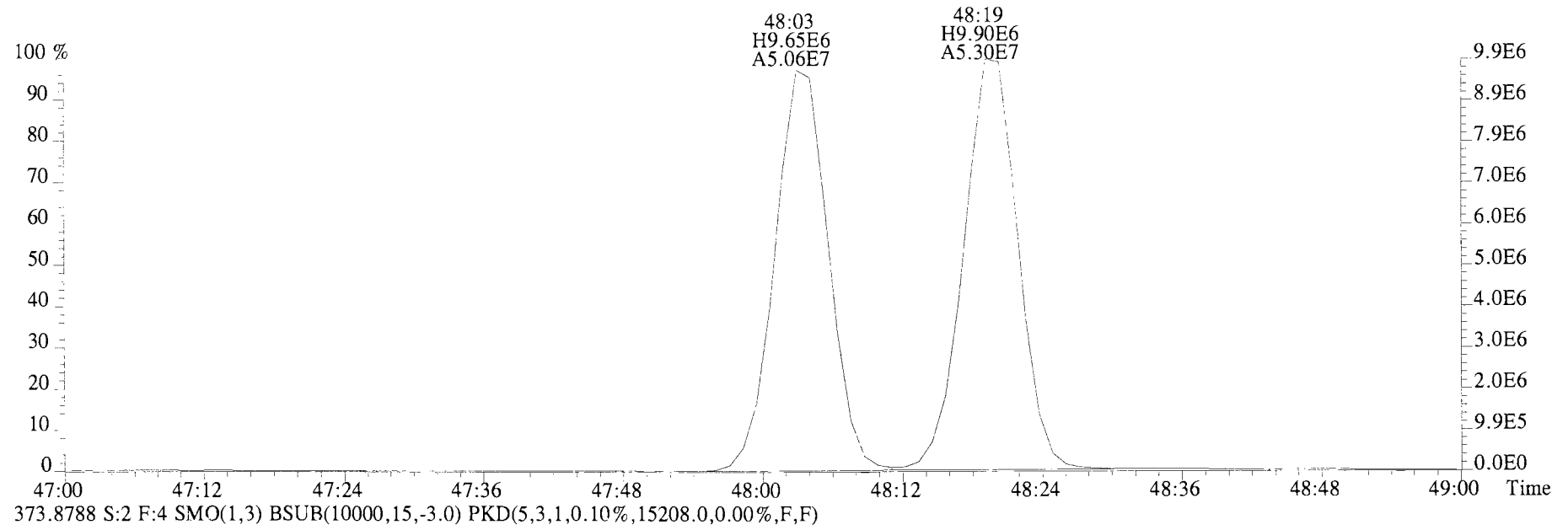




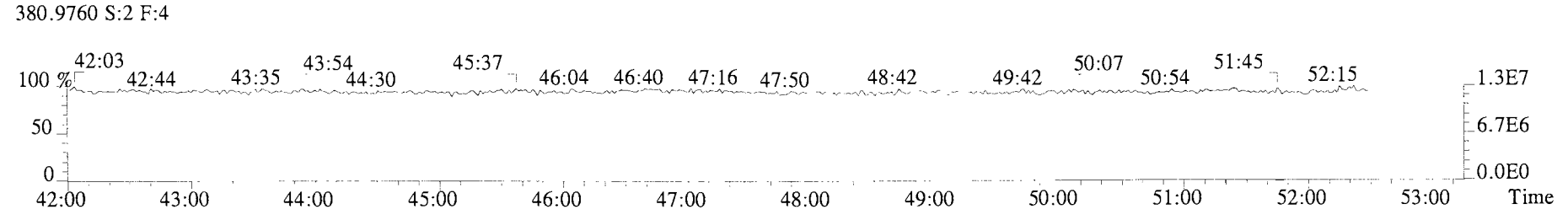
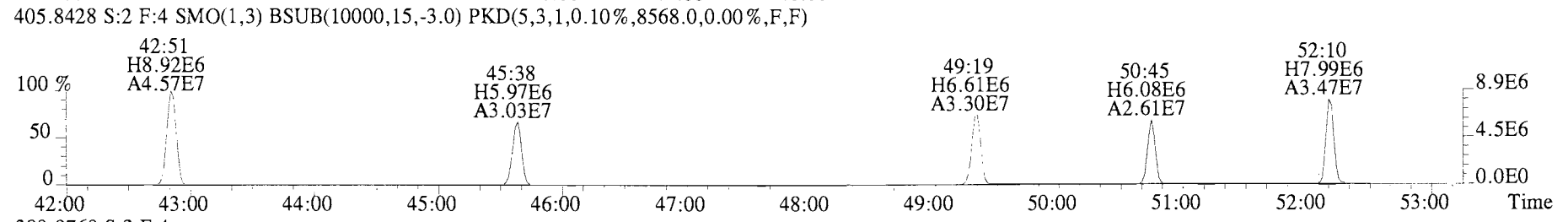
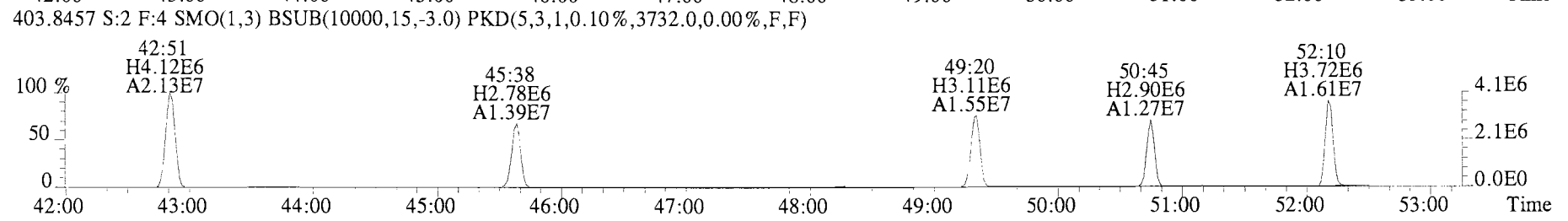
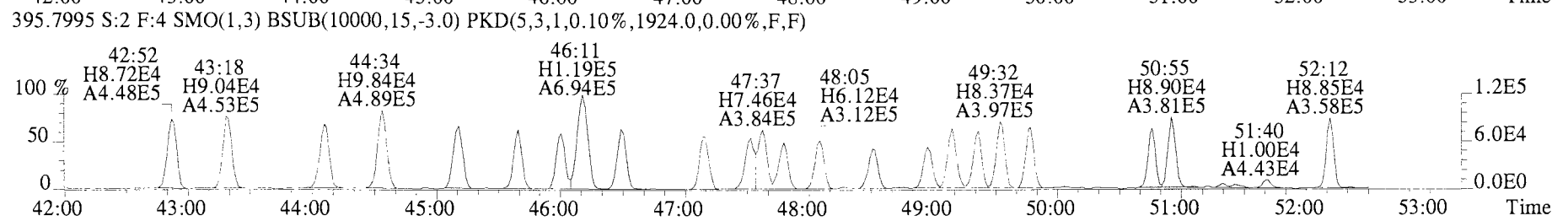
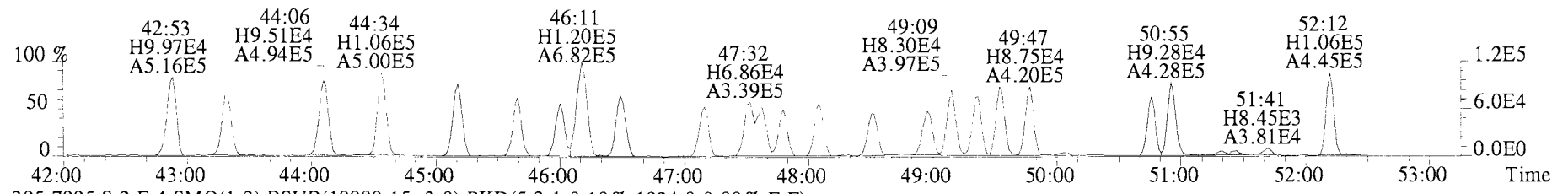
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,17792.0,0.00%,F,F)



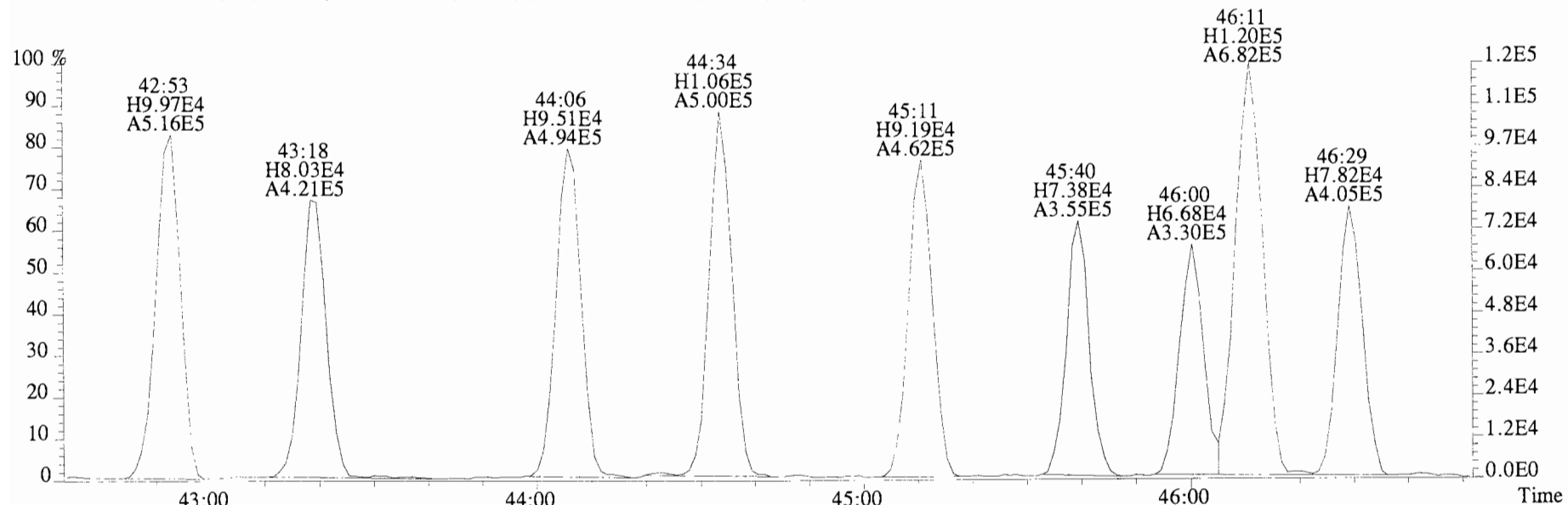
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Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,17792.0,0.00%,F,F)



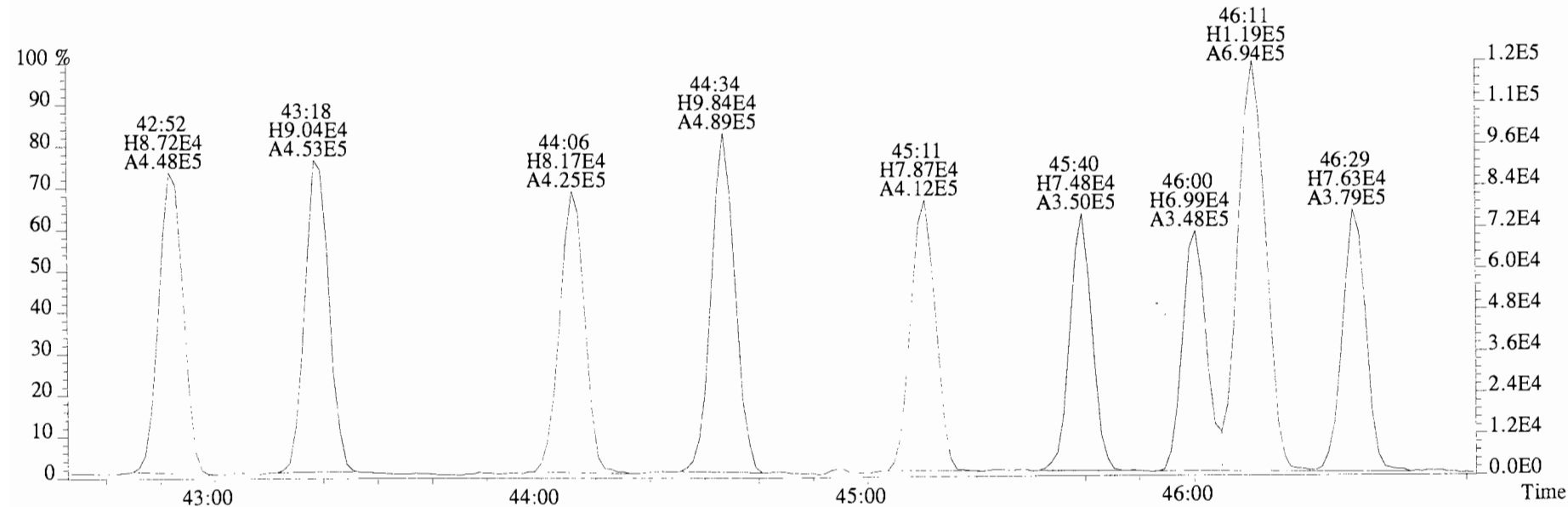
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
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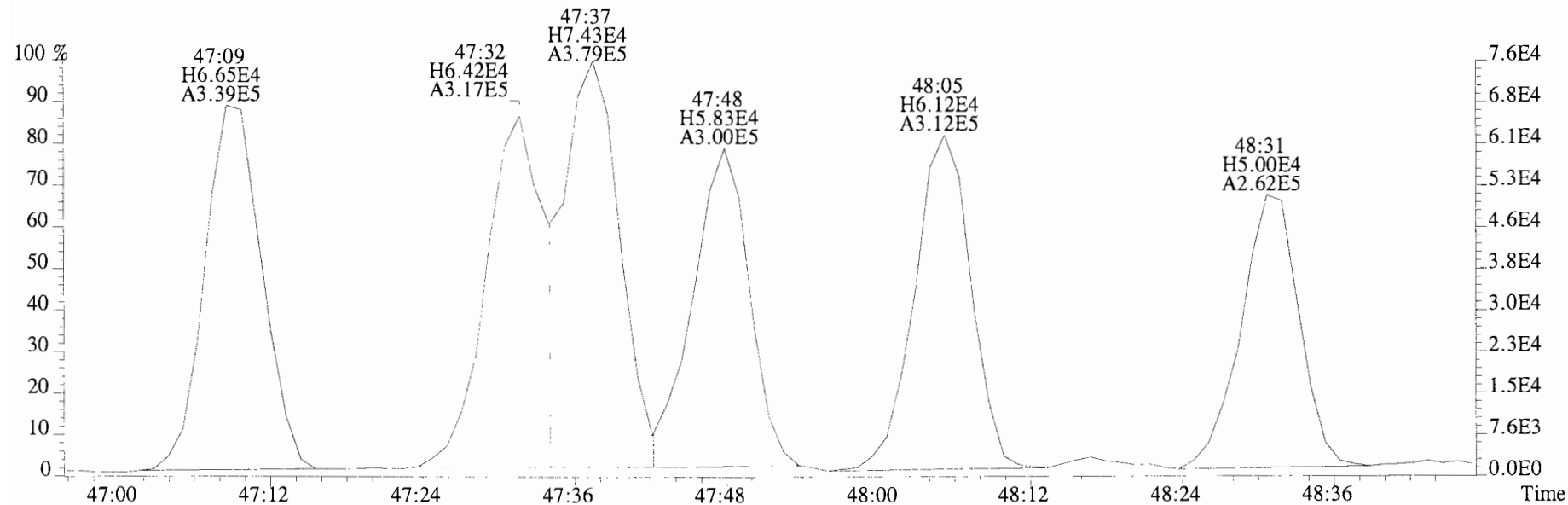
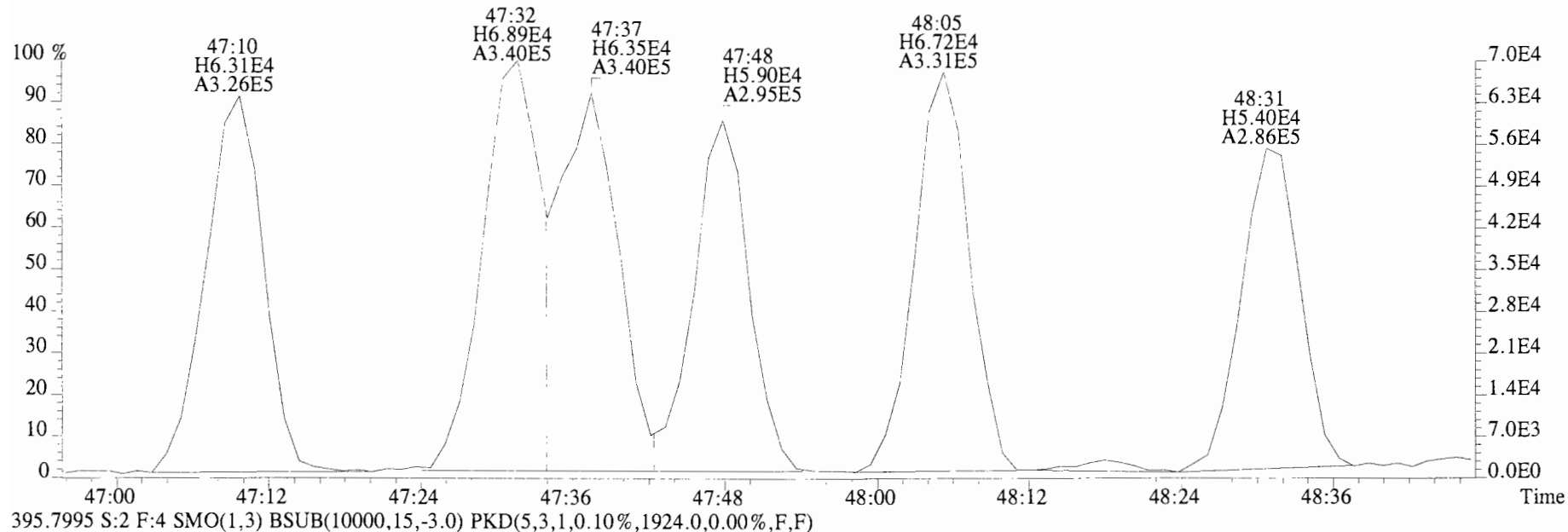
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
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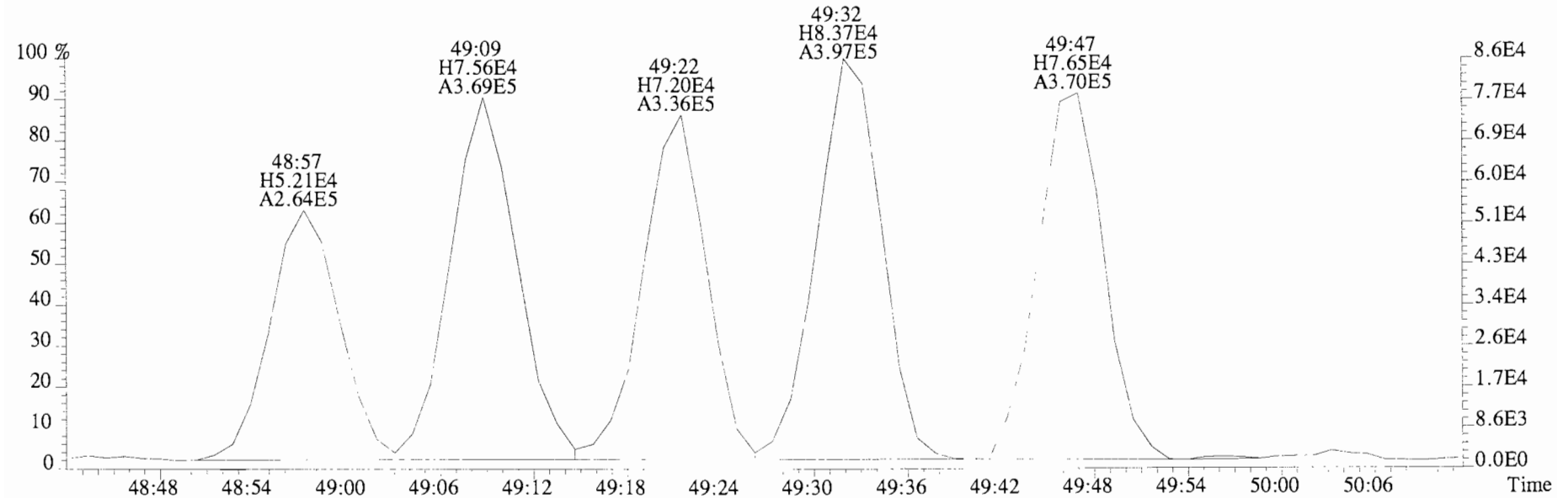
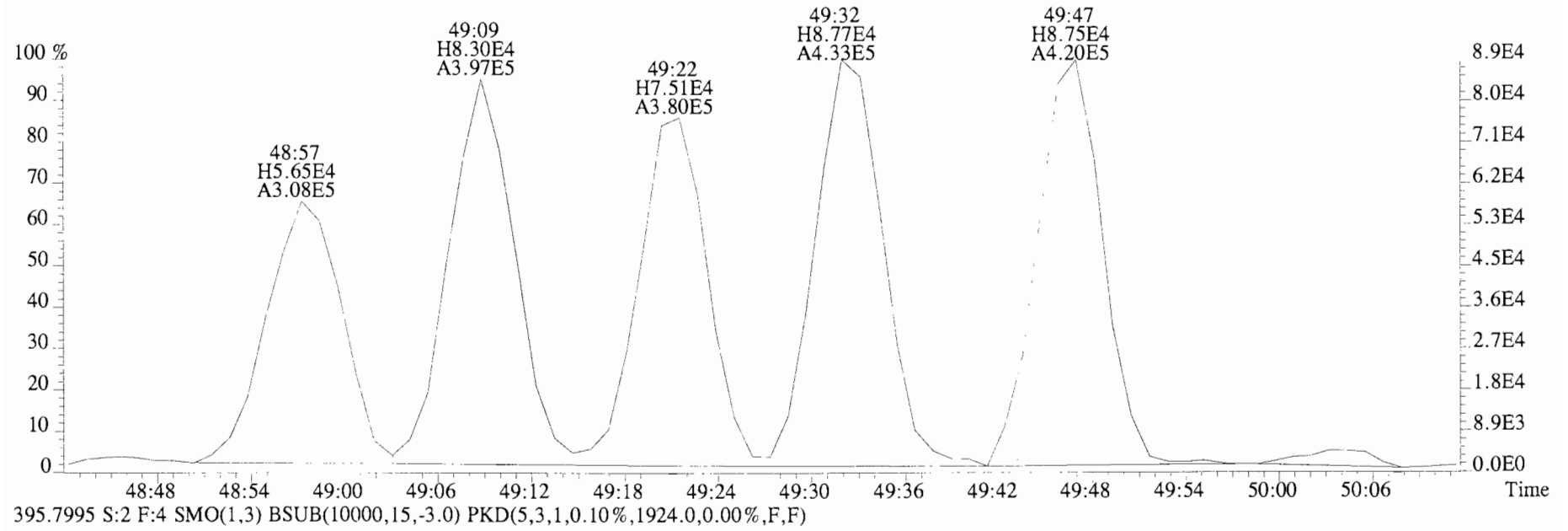
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1924.0,0.00%,F,F)



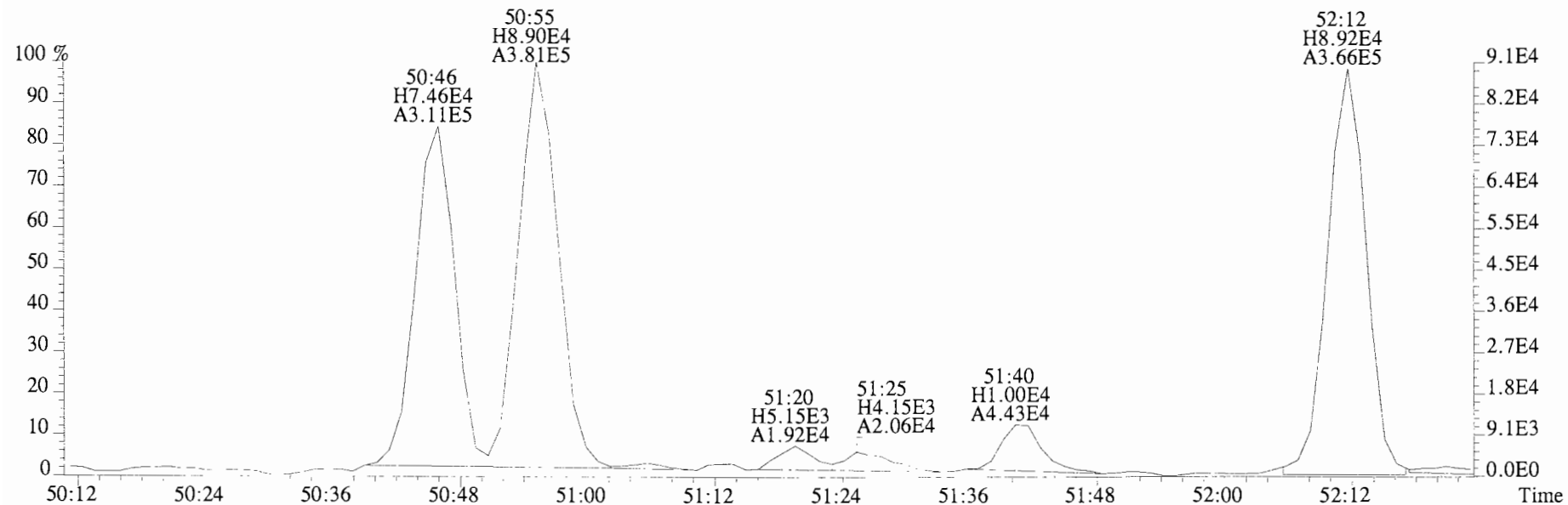
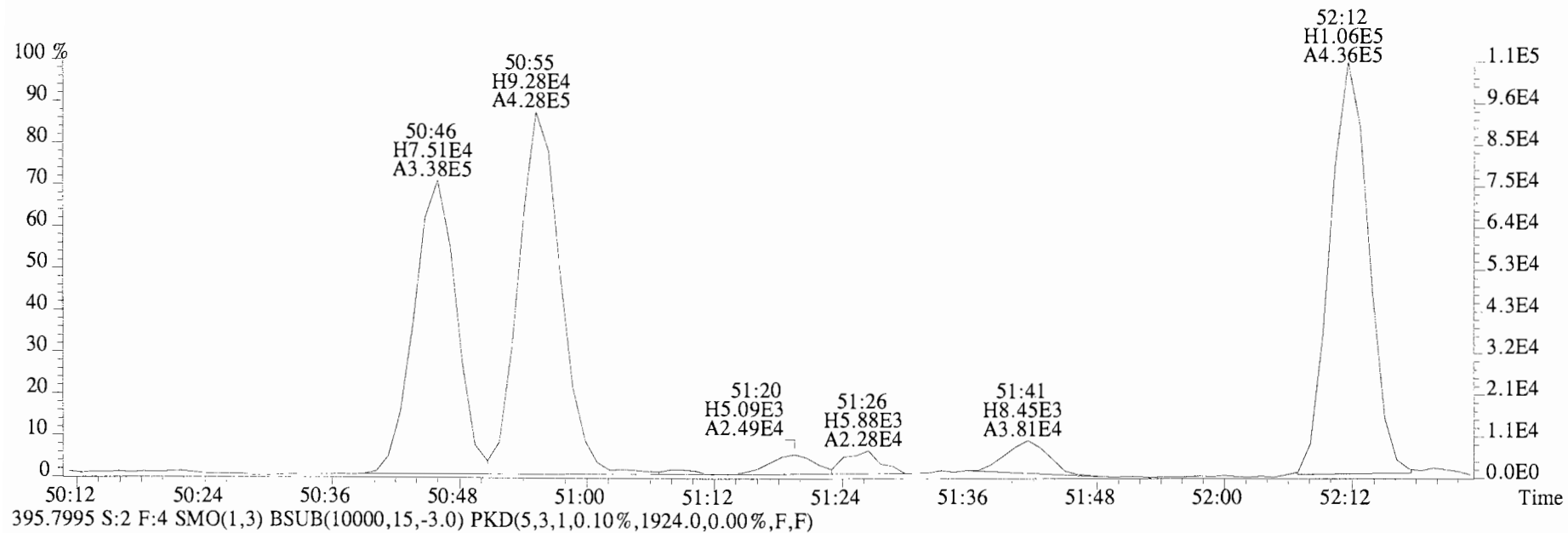
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1300.0,0.00%,F,F)



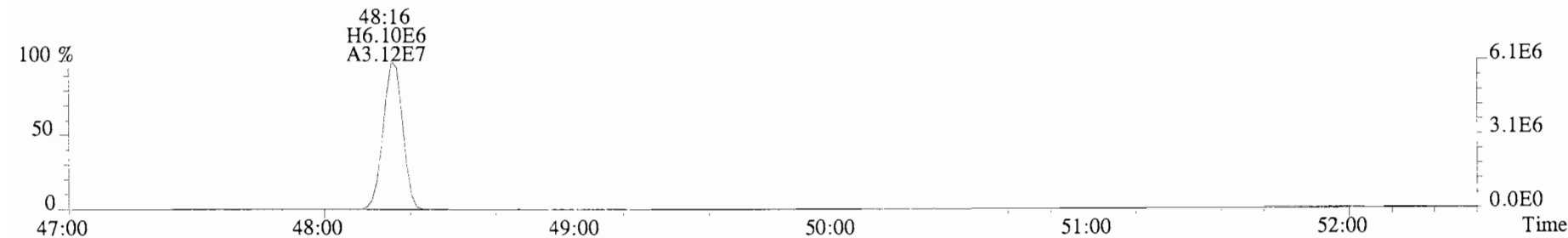
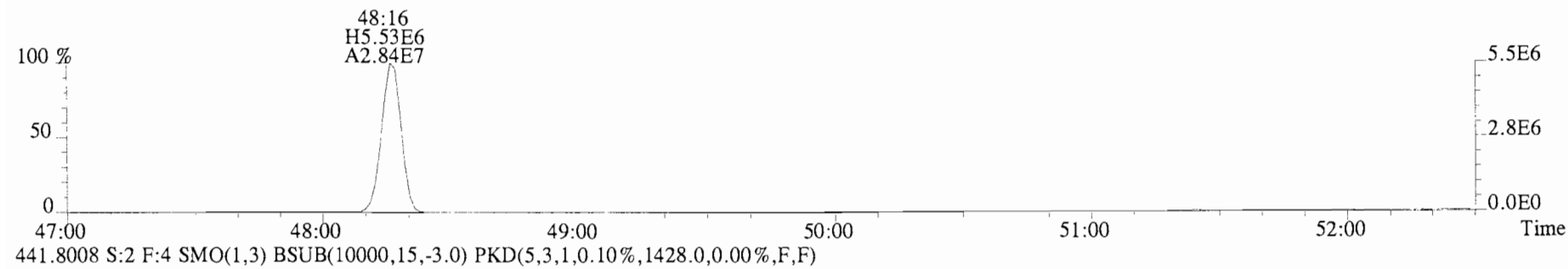
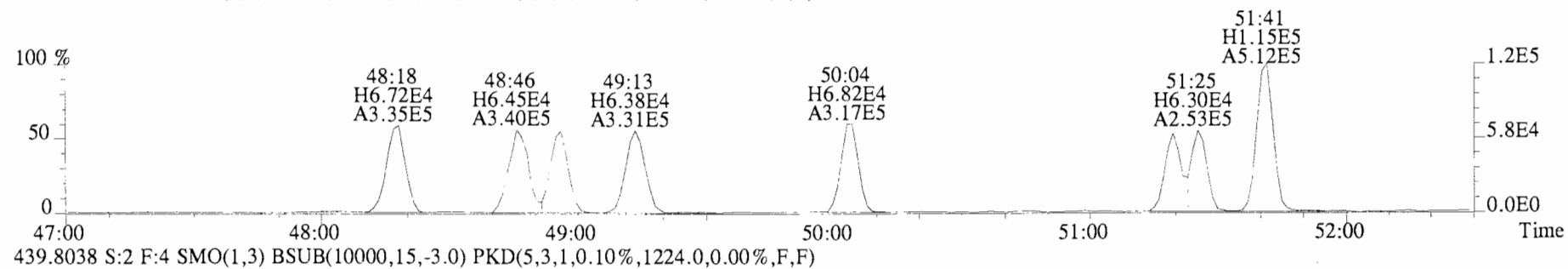
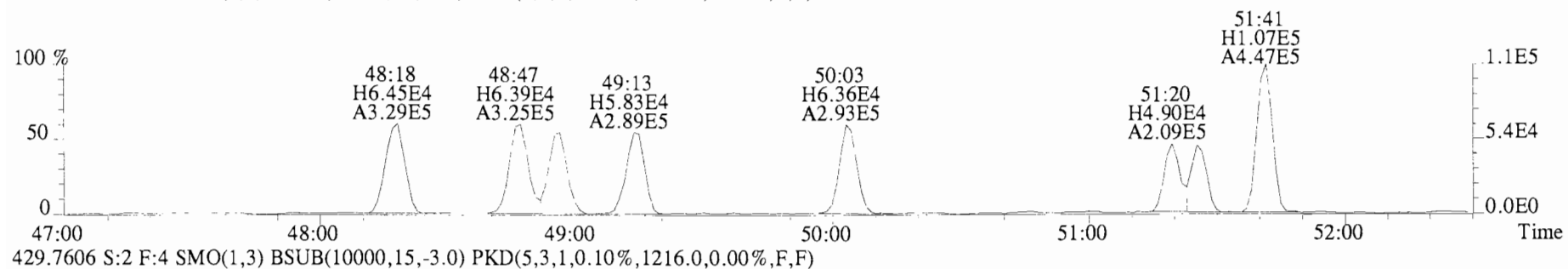
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1300.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1300.0,0.00%,F,F)

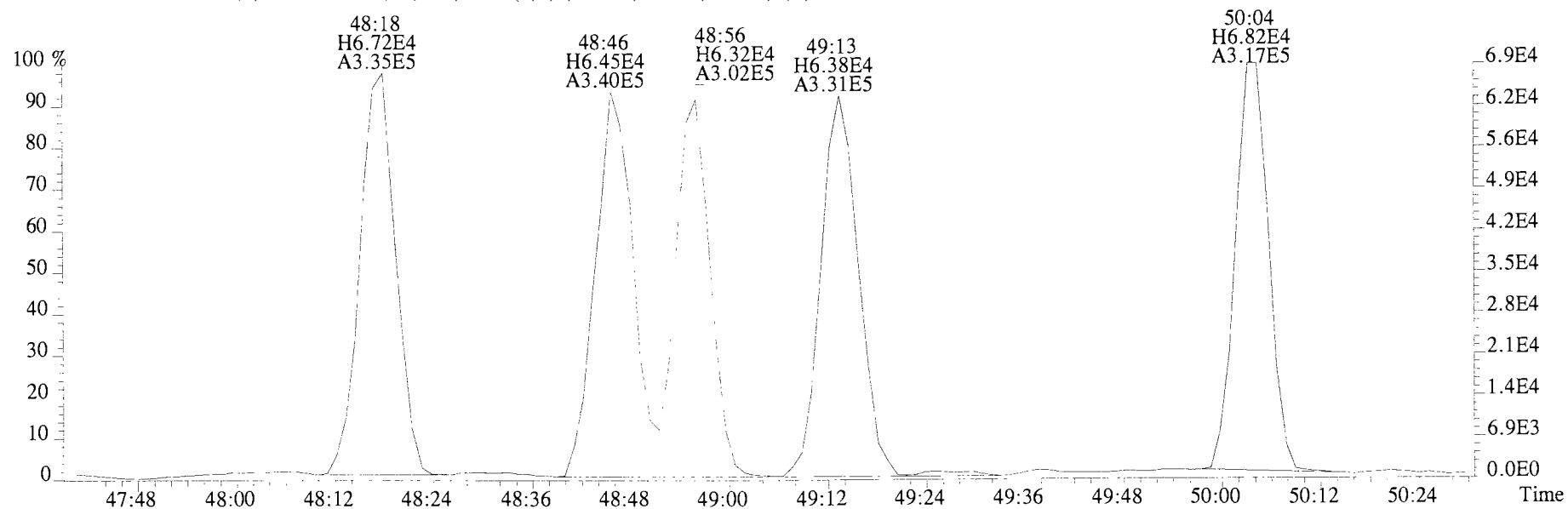
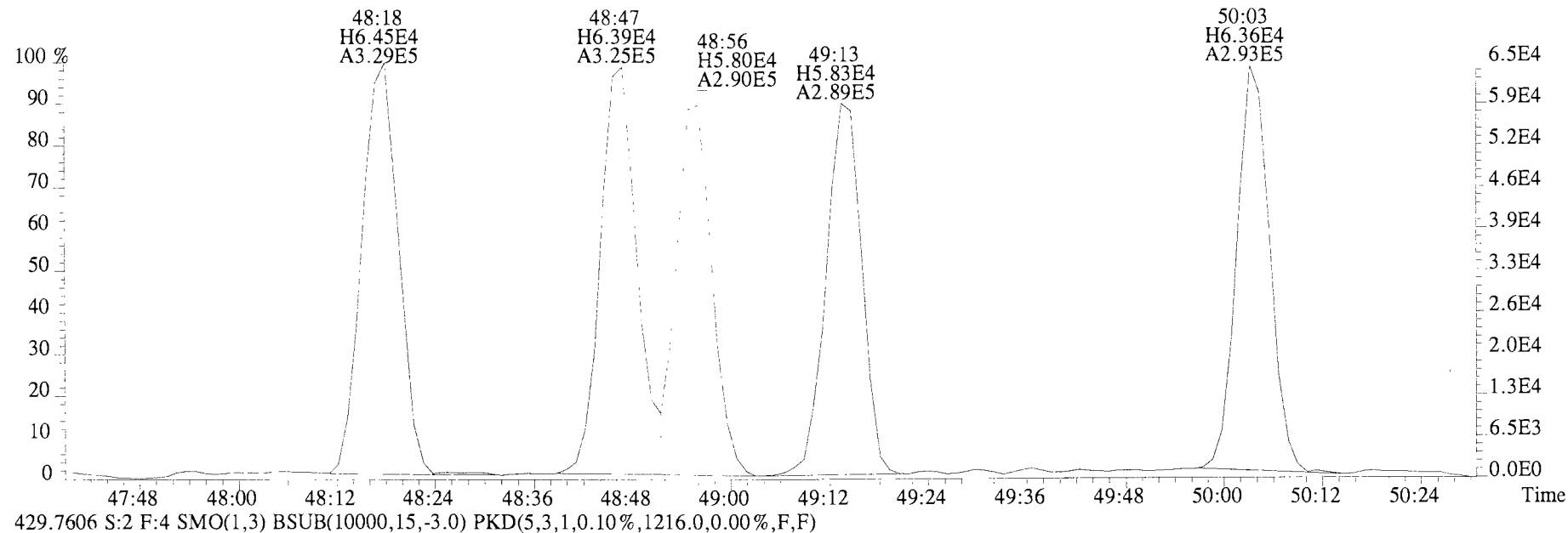


File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1124.0,0.00%,F,F)

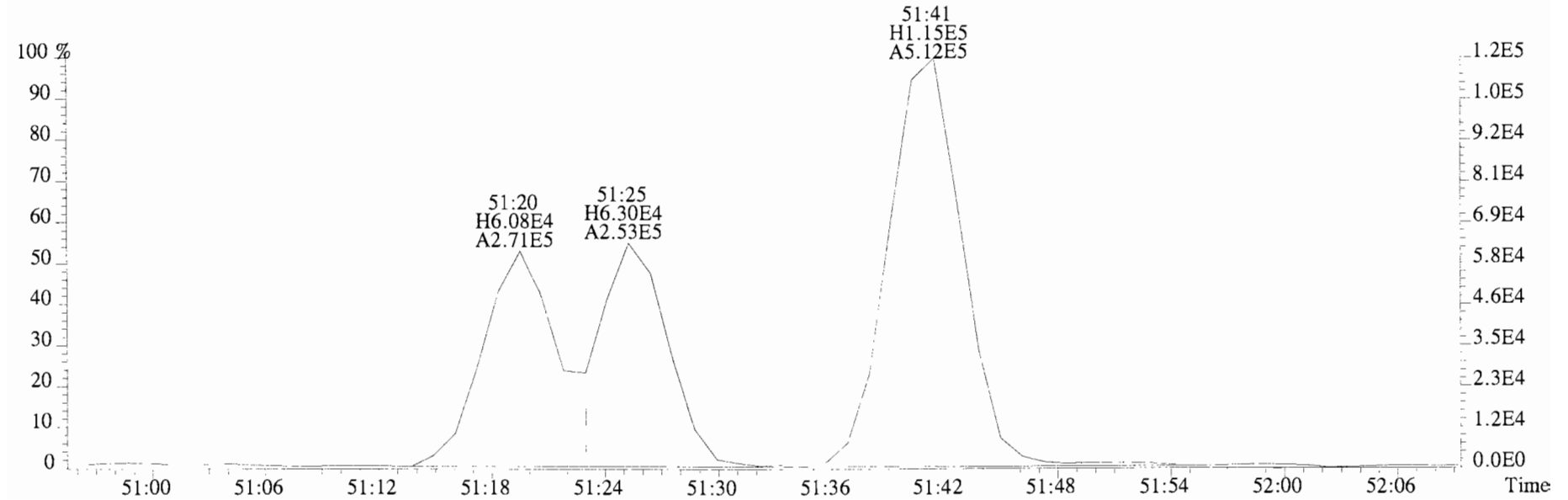
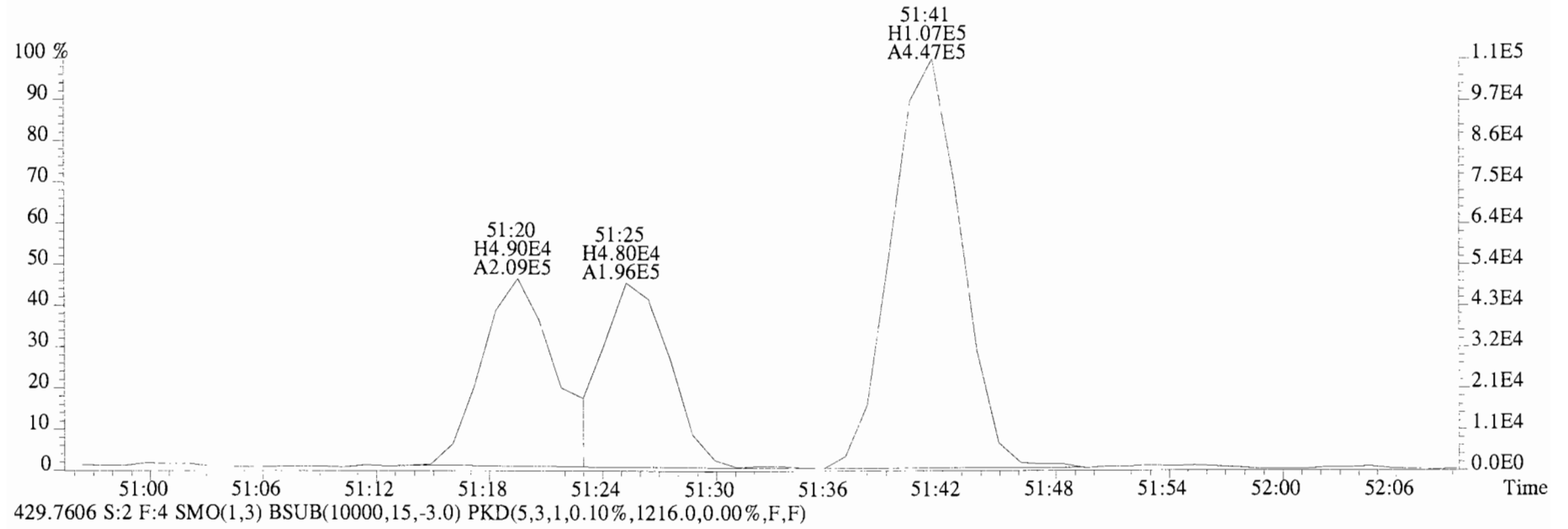




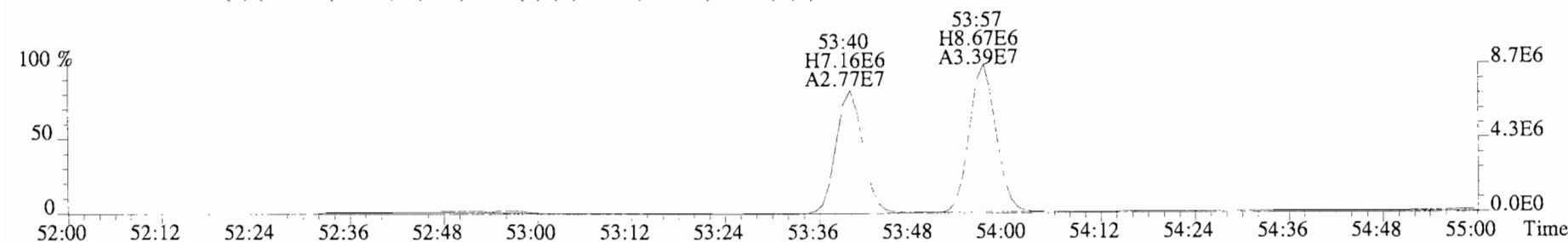
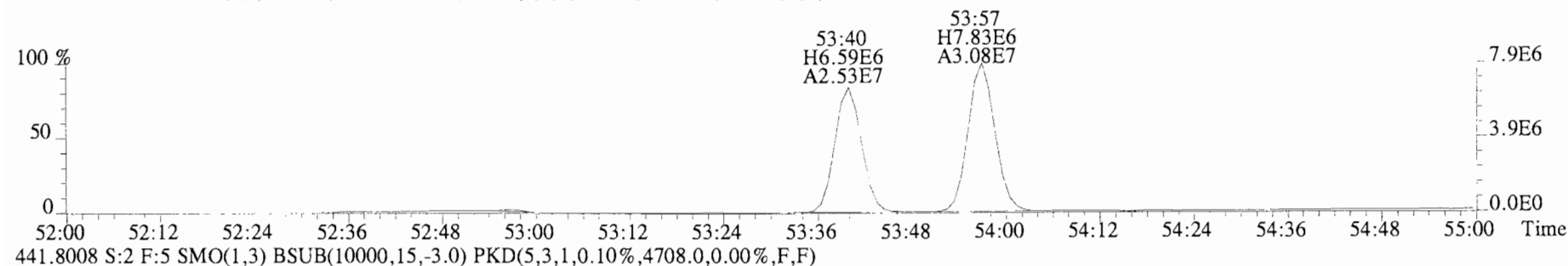
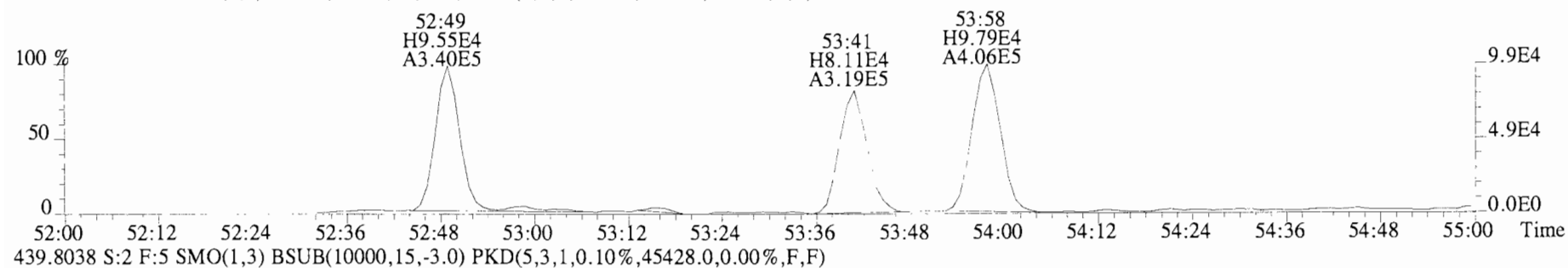
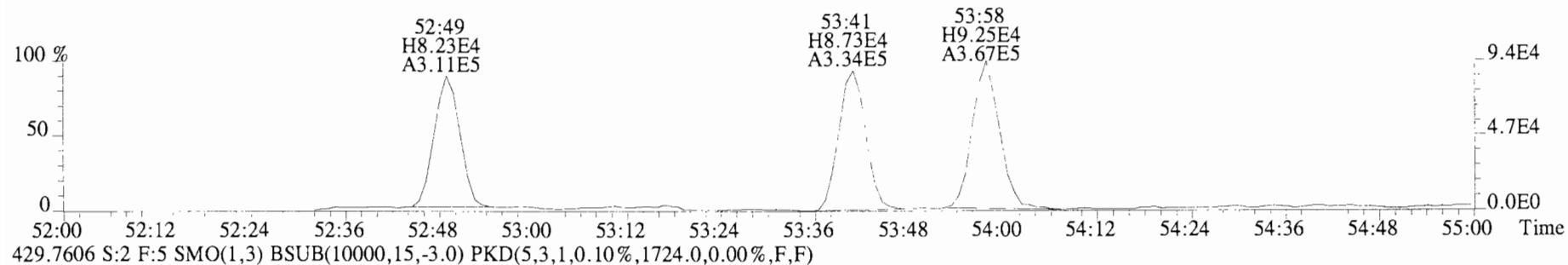
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
 427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1124.0,0.00%,F,F)



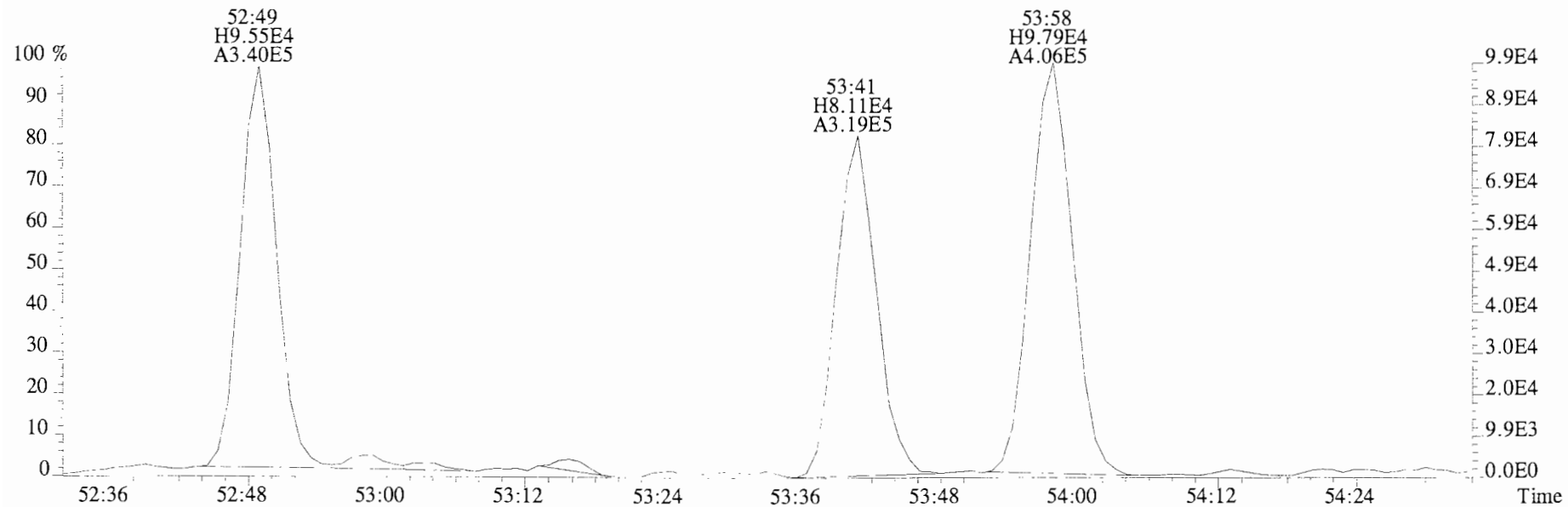
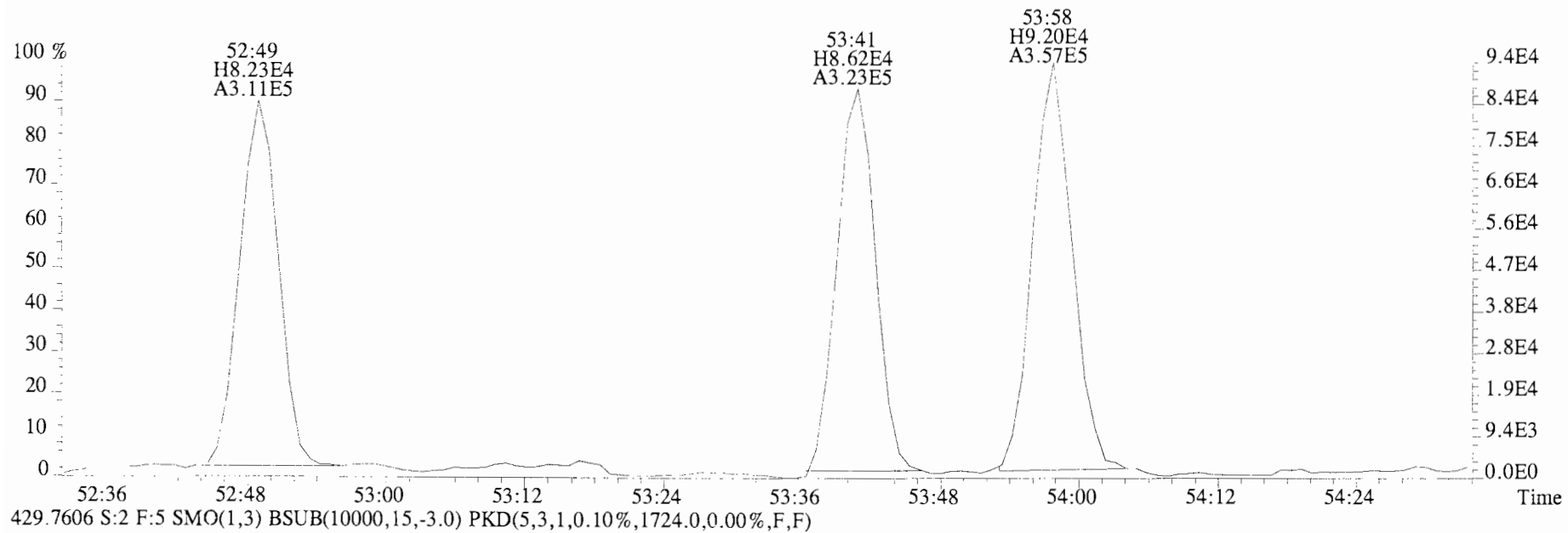
File:140620E1 #1-546 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1124.0,0.00%,F,F)



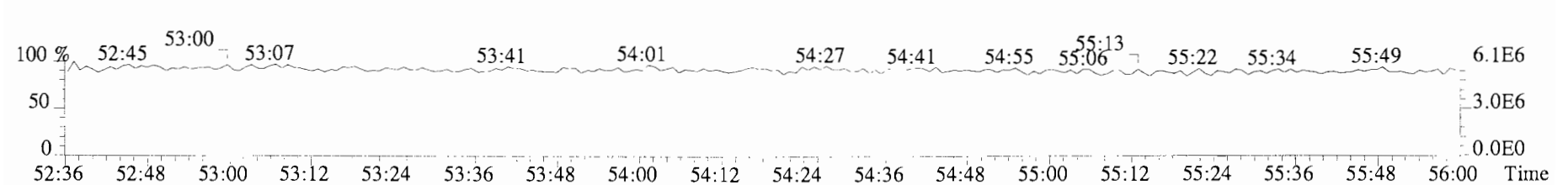
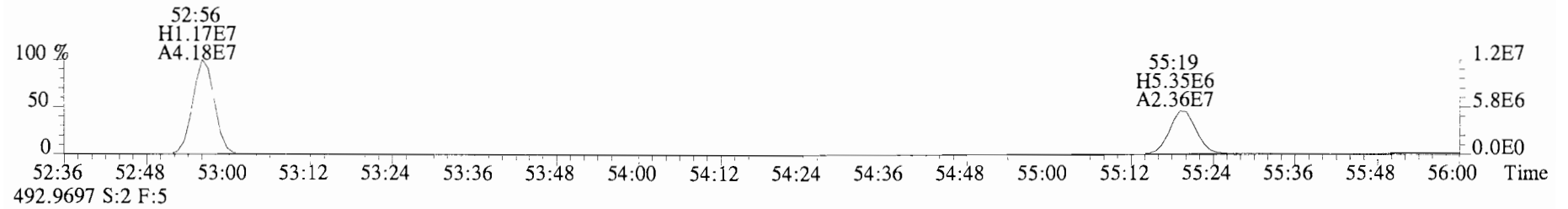
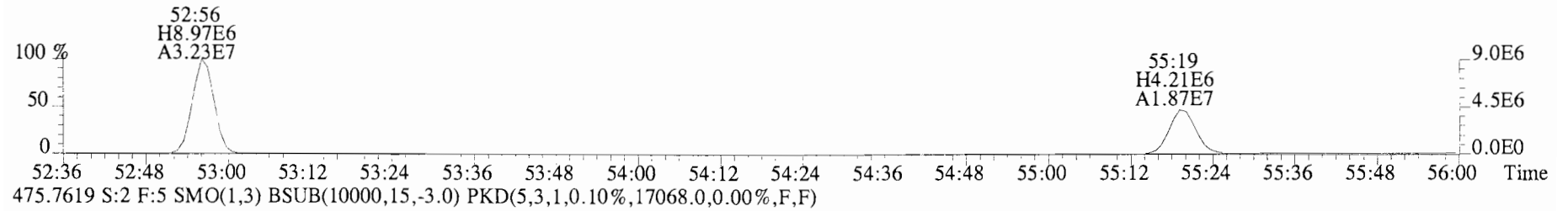
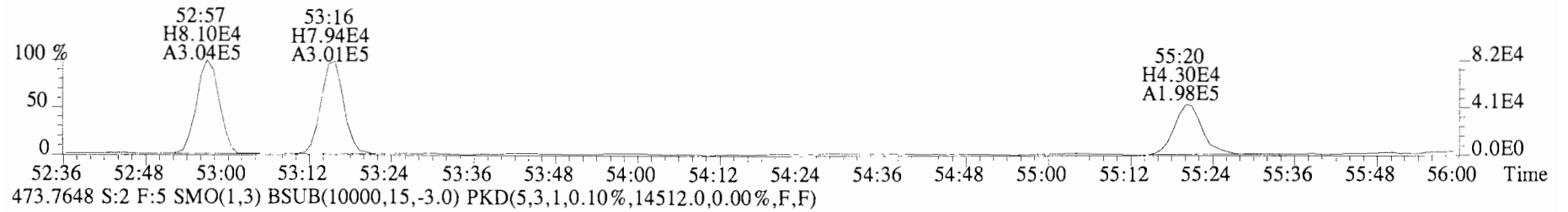
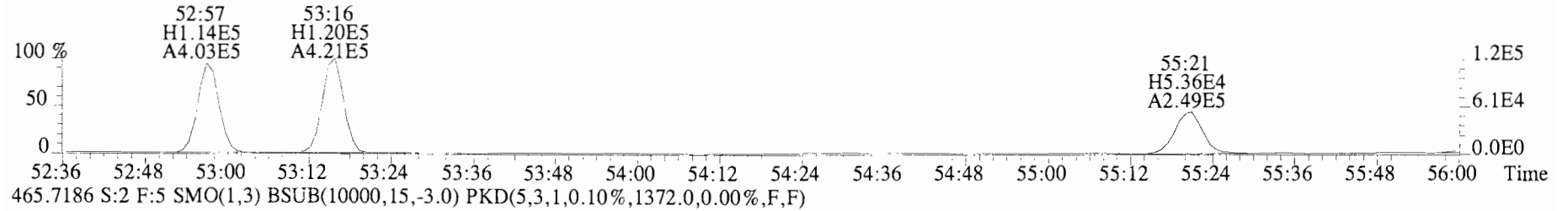
File:140620E1 #1-435 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2216.0,0.00%,F,F)



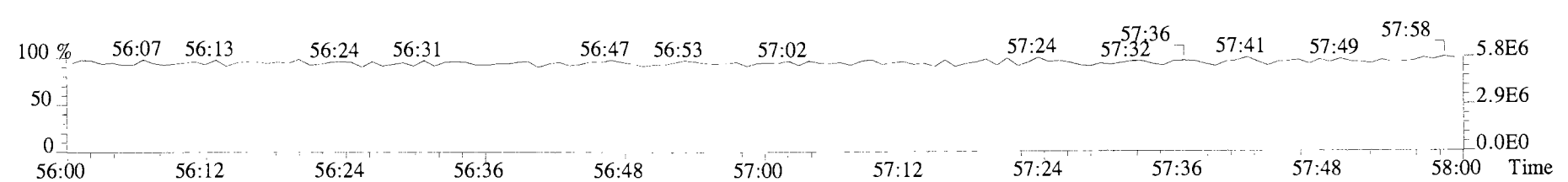
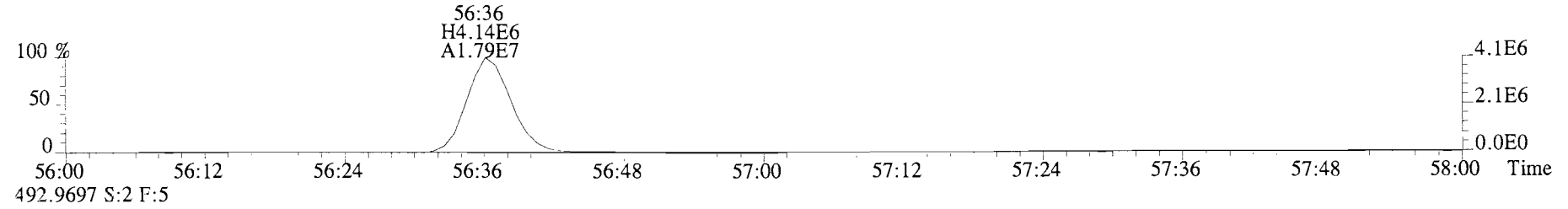
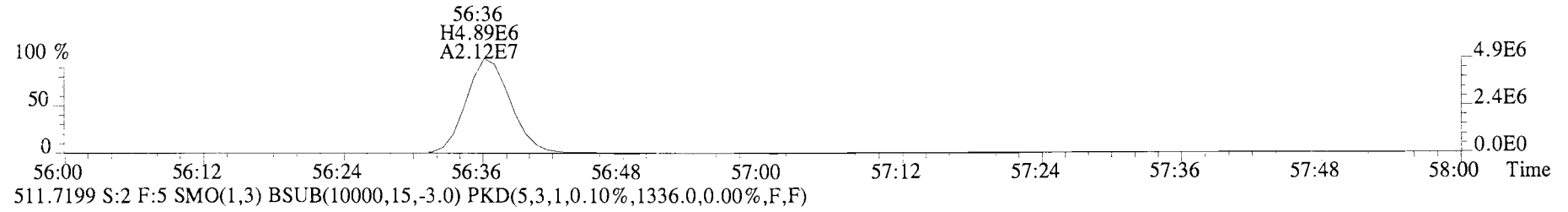
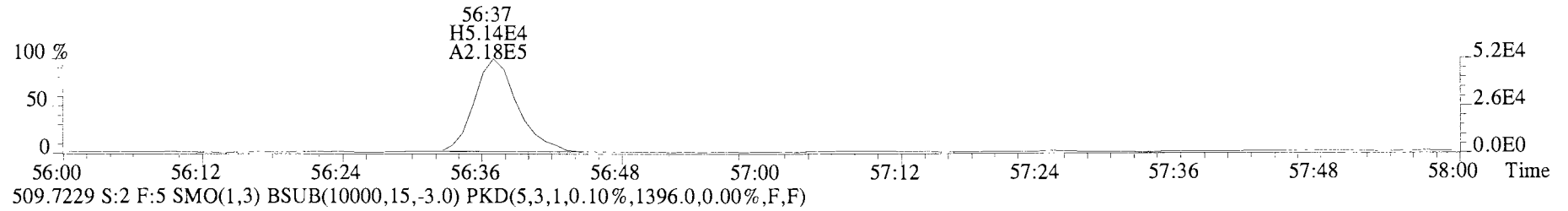
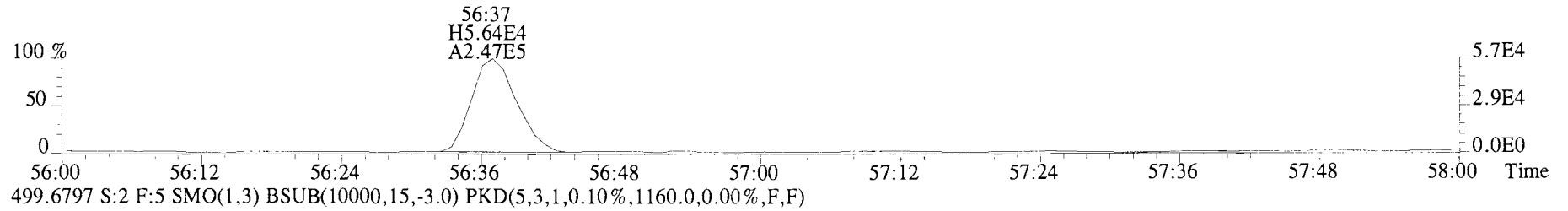
File:140620E1 #1-435 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2216.0,0.00%,F,F)



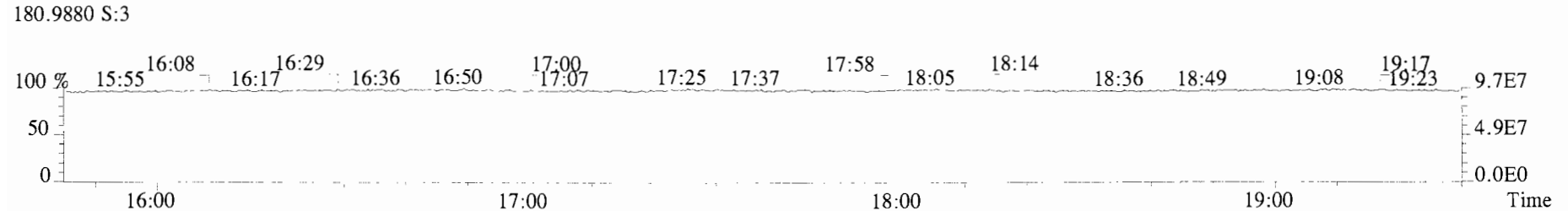
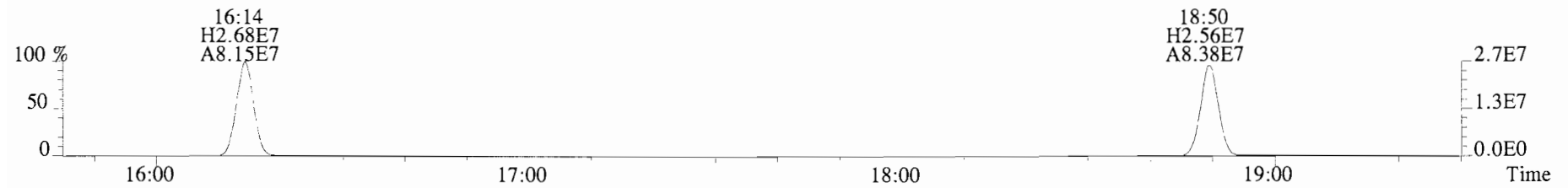
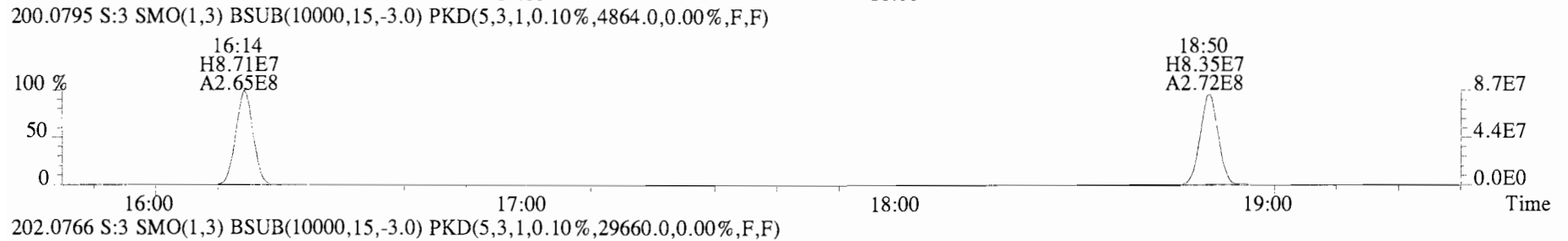
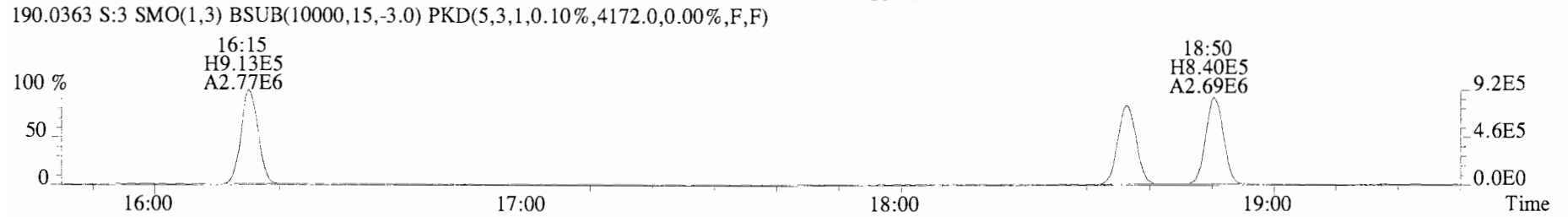
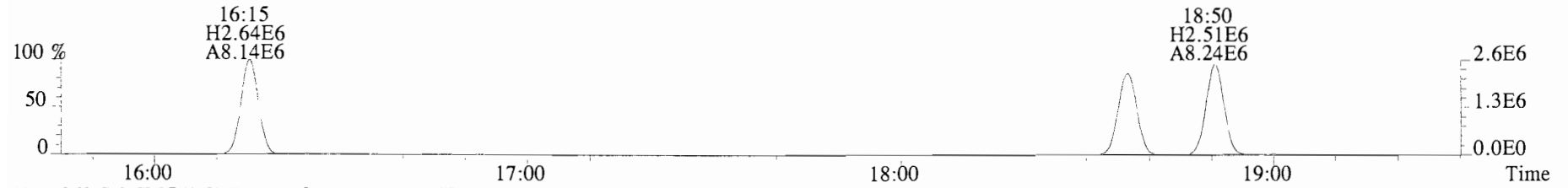
File:140620E1 #1-435 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1360.0,0.00%,F,F)



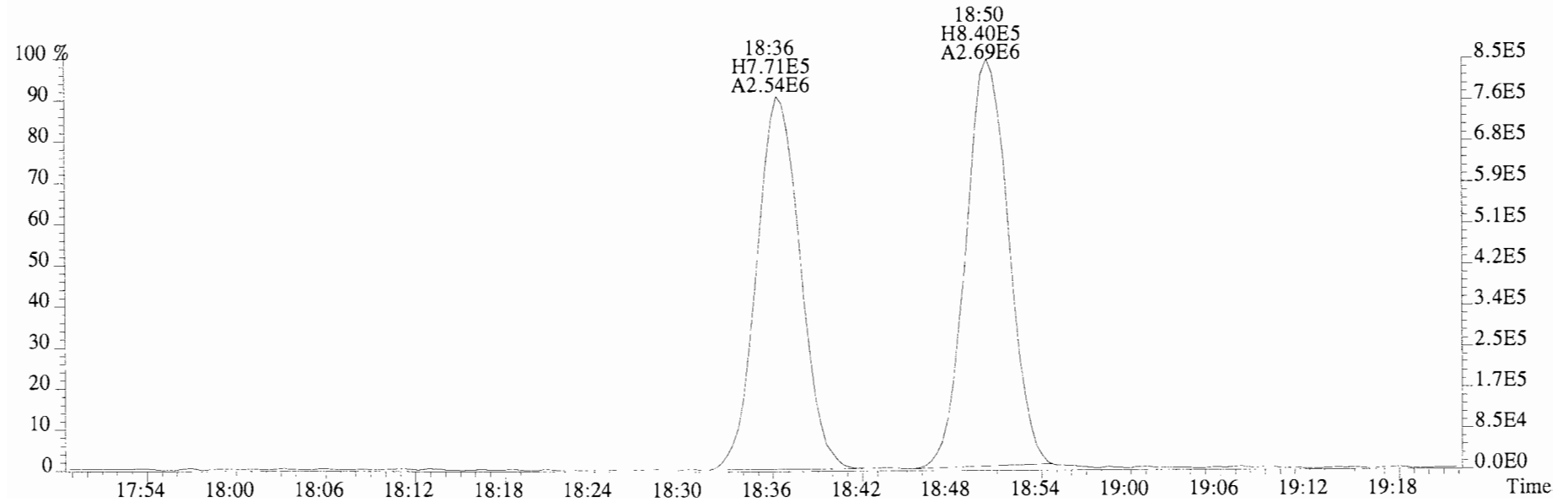
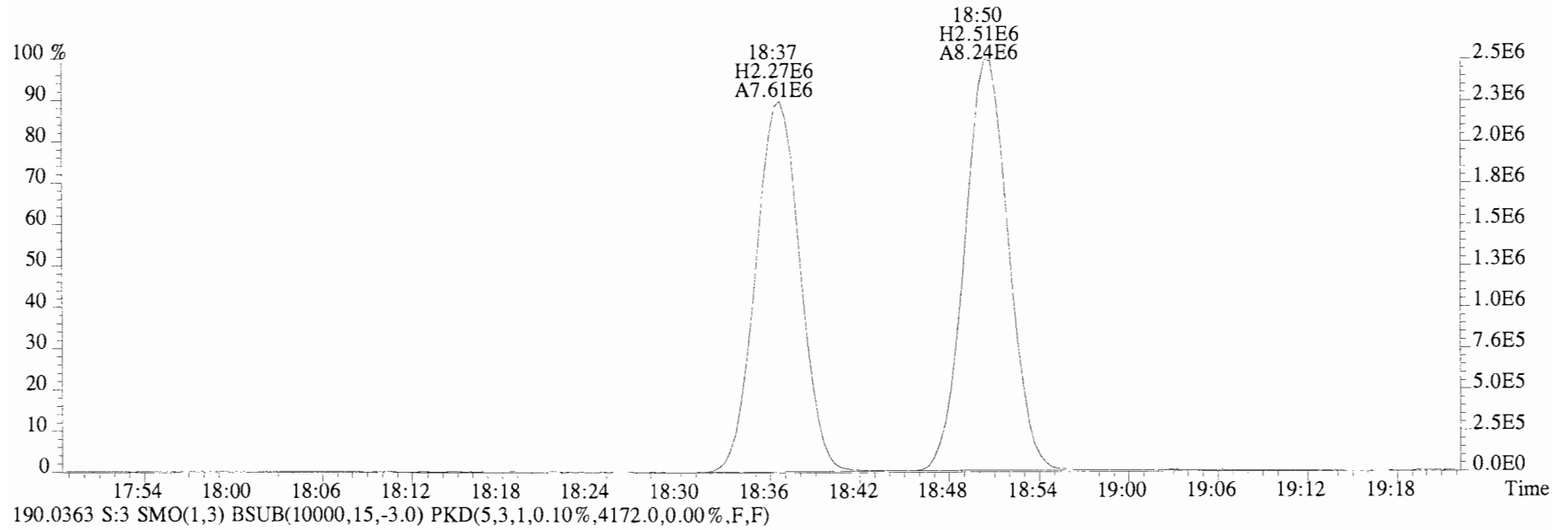
File:140620E1 #1-435 Acq:20-JUN-2014 10:35:42 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-2 PCB CS1 13H1204 Exp:PCB\_ZB1  
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1300.0,0.00%,F,F)



File:140620E1 #1-728 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
188.0393 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2888.0,0.00%,F,F)

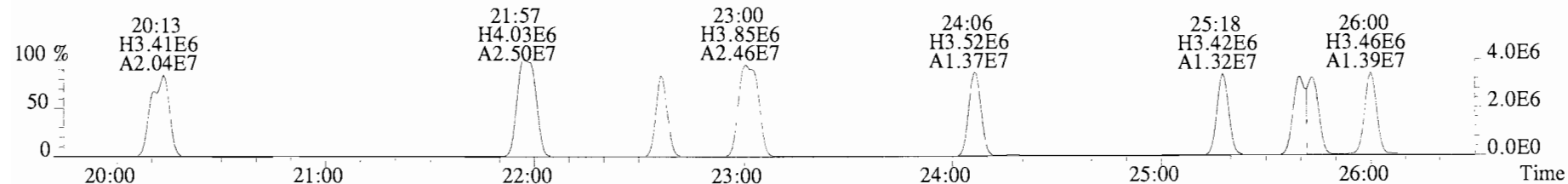


File:140620E1 #1-728 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
188.0393 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2888.0,0.00%,F,F)

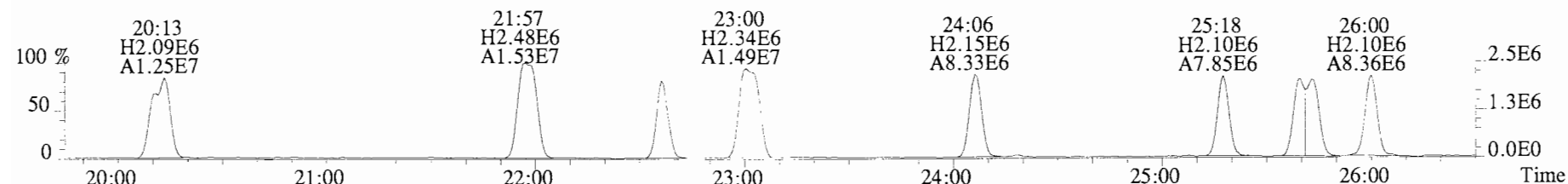




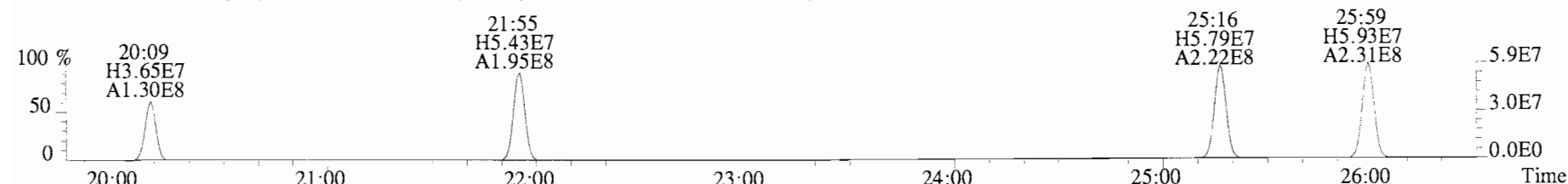
File:140620E1 #1-750 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4164.0,0.00%,F,F)



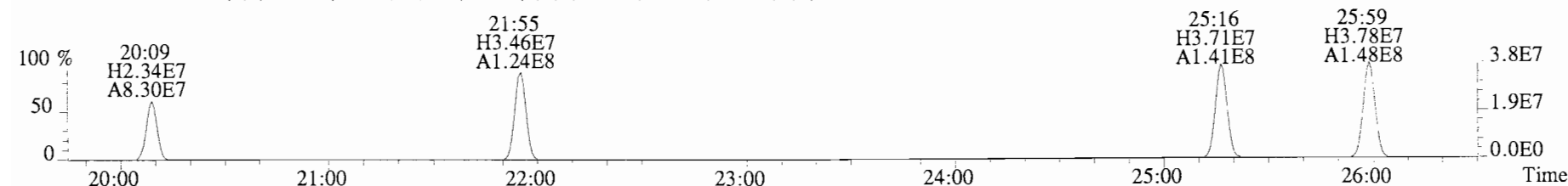
223.9974 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,37032.0,0.00%,F,F)



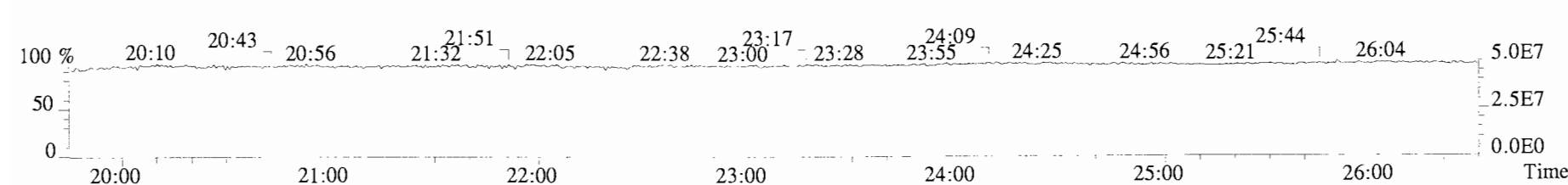
234.0406 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,6204.0,0.00%,F,F)



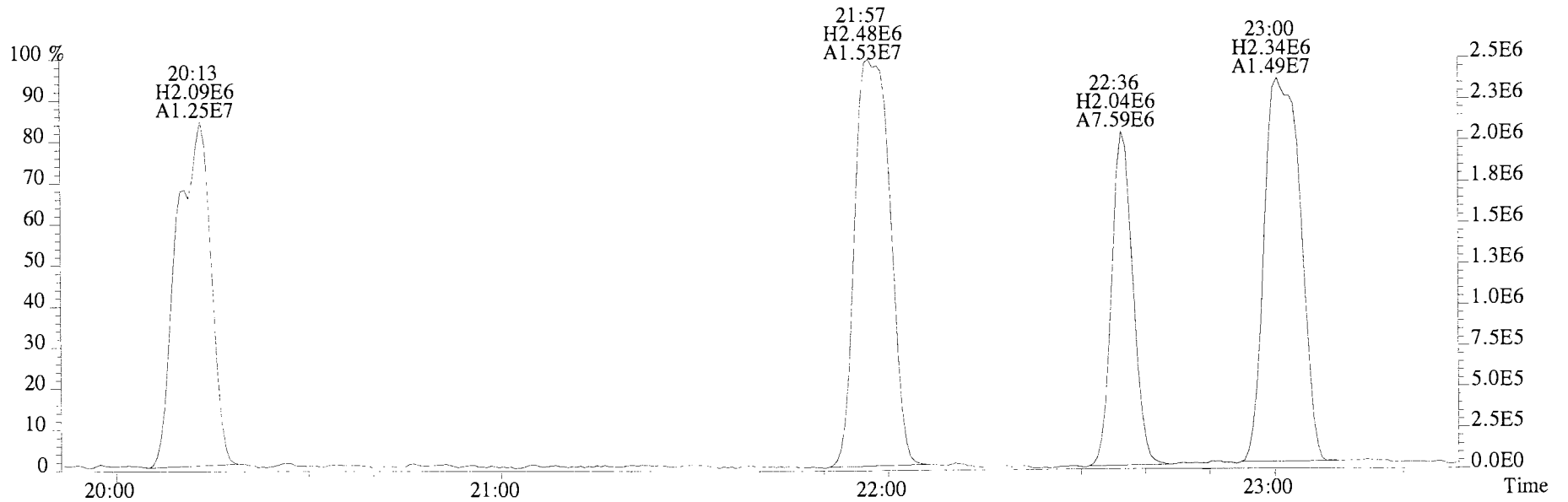
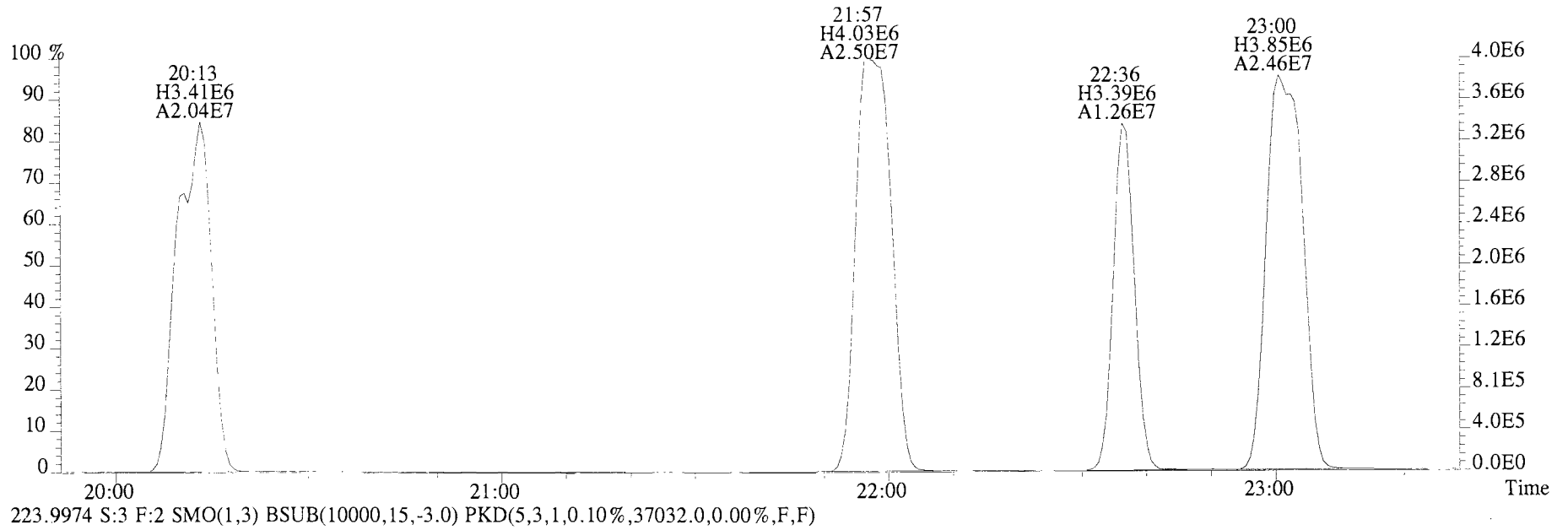
236.0376 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7520.0,0.00%,F,F)



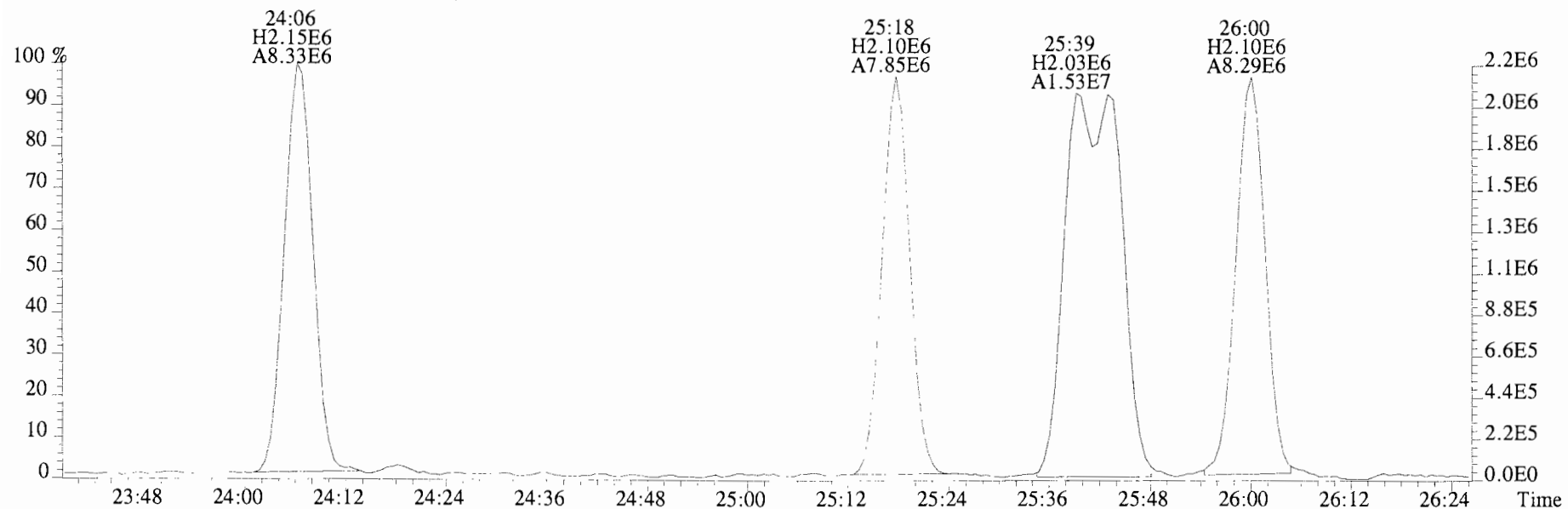
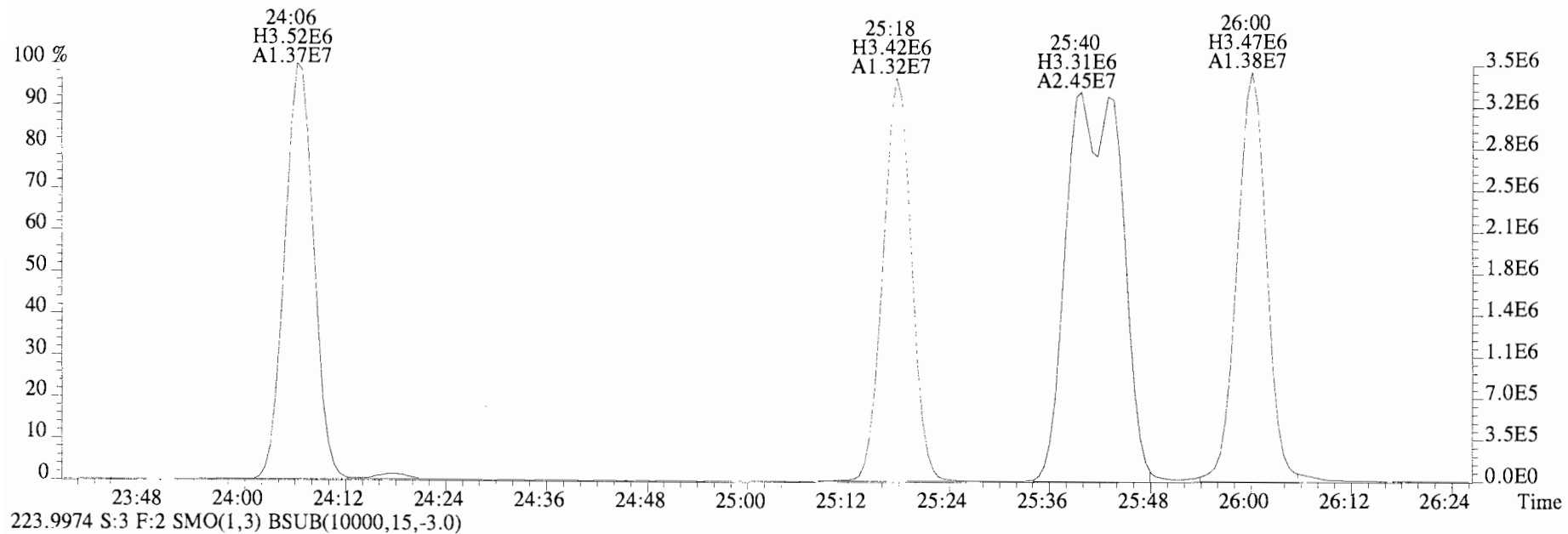
230.9856 S:3 F:2



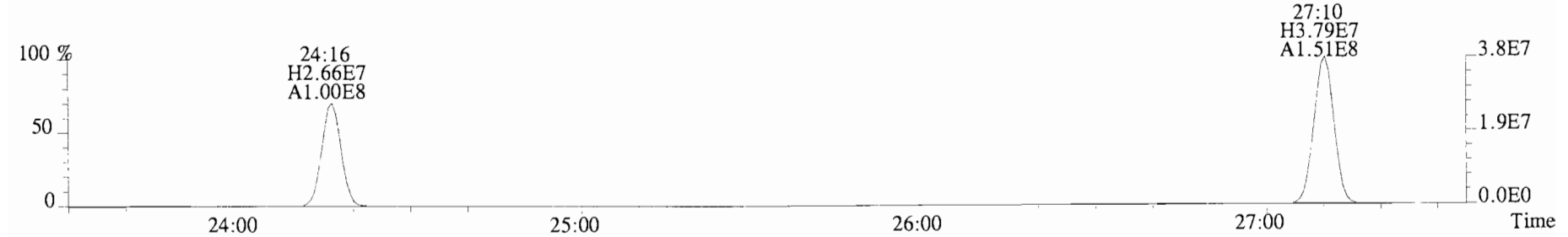
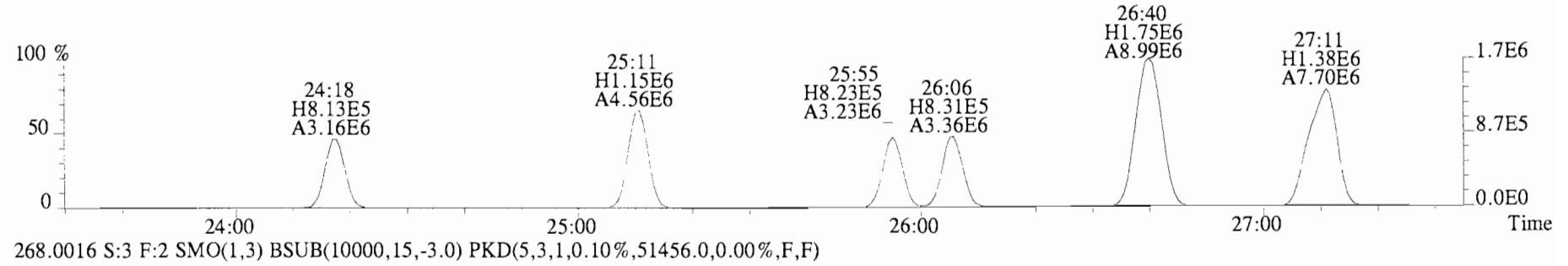
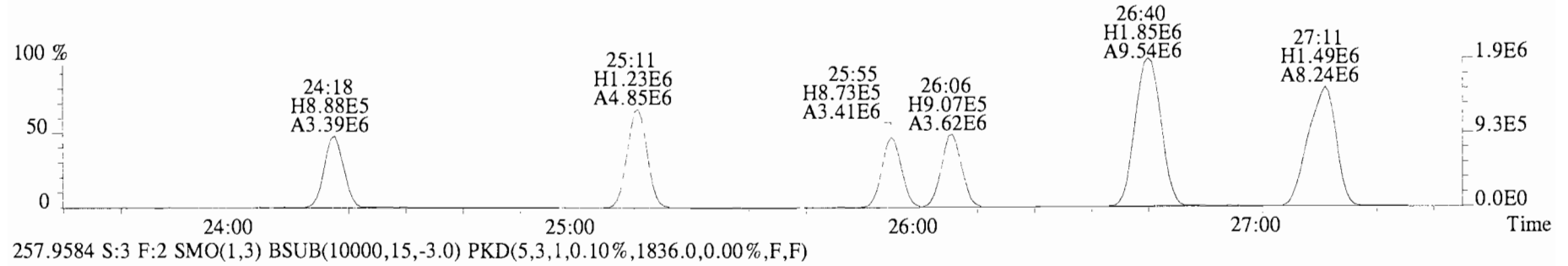
File:140620E1 #1-750 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4164.0,0.00%,F,F)



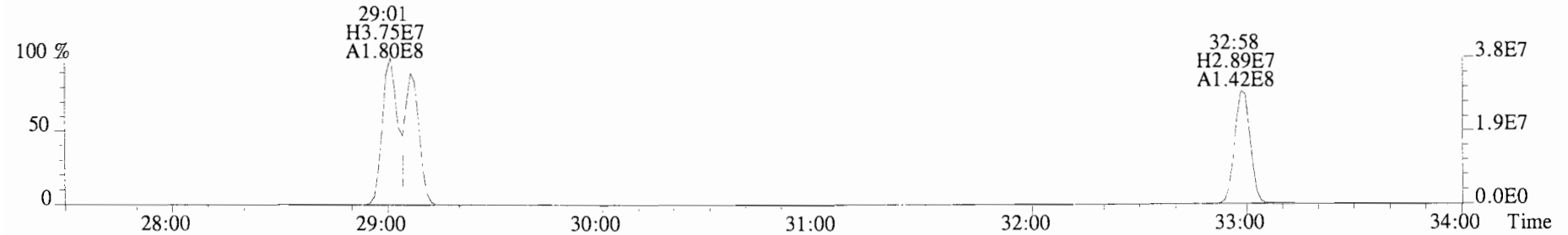
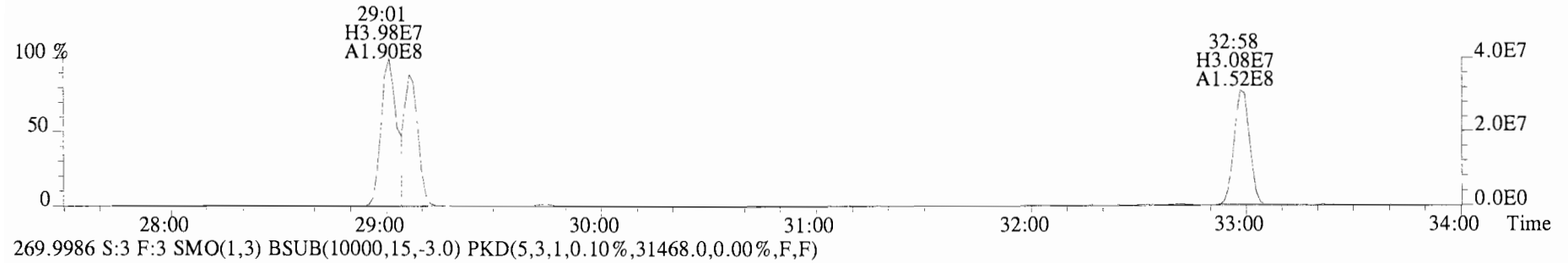
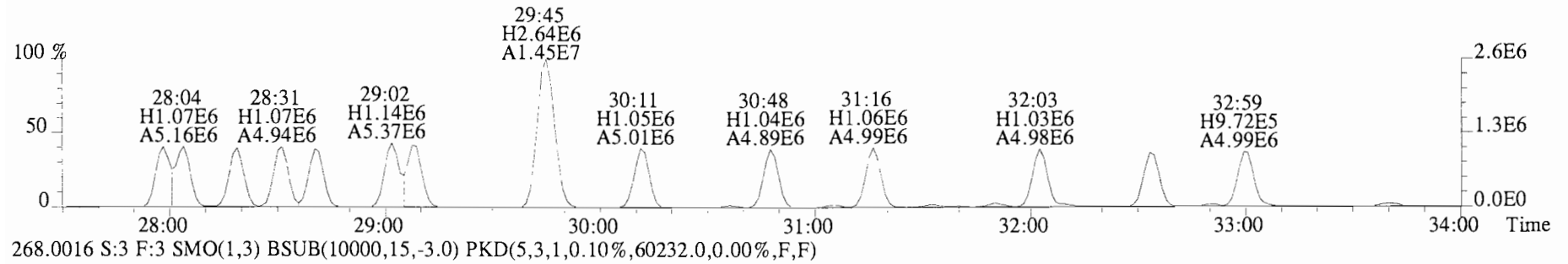
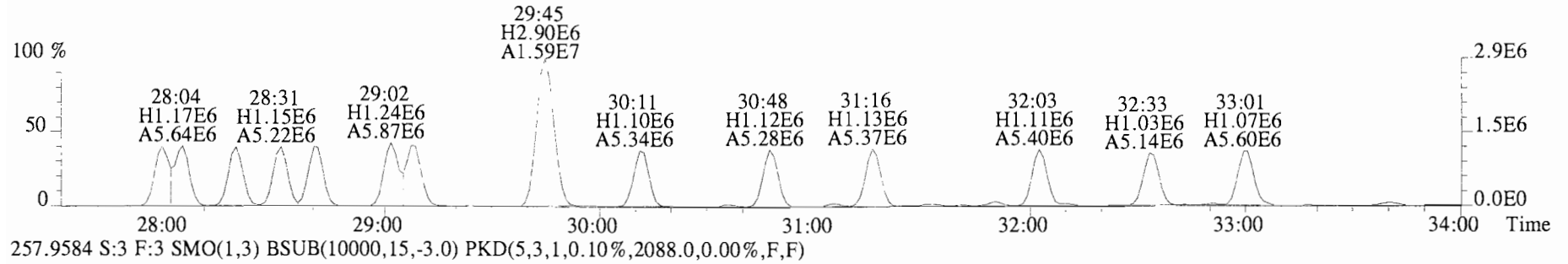
File:140620E1 #1-750 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0)



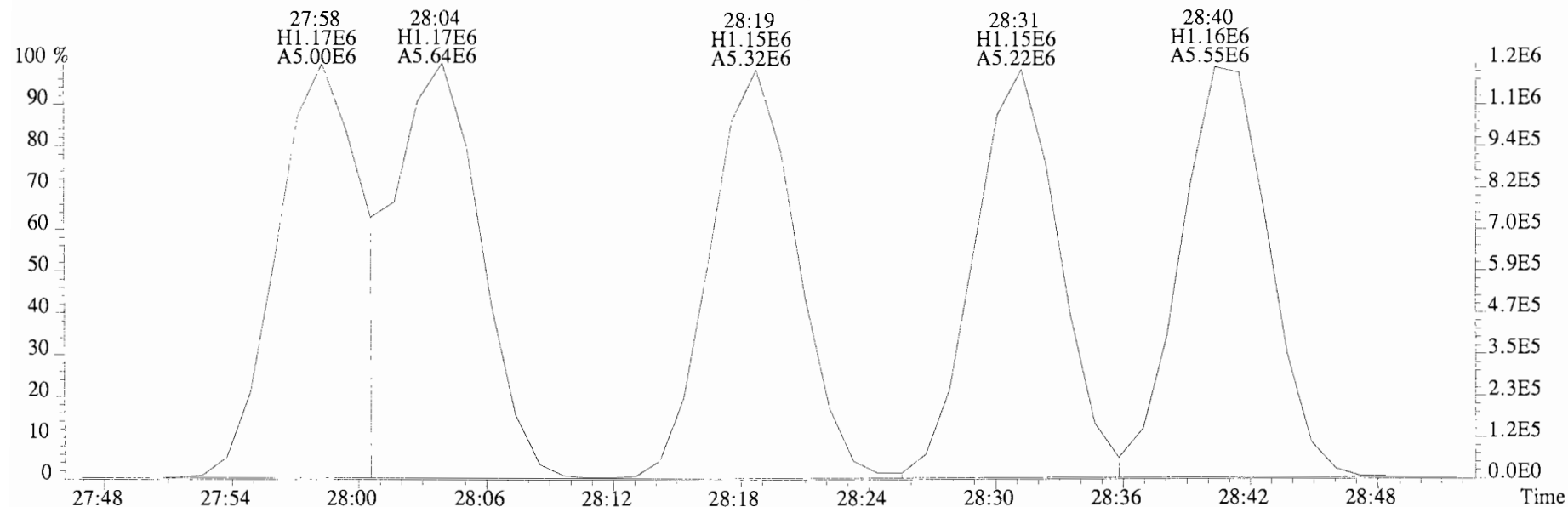
File:140620E1 #1-750 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3352.0,0.00%,F,F)



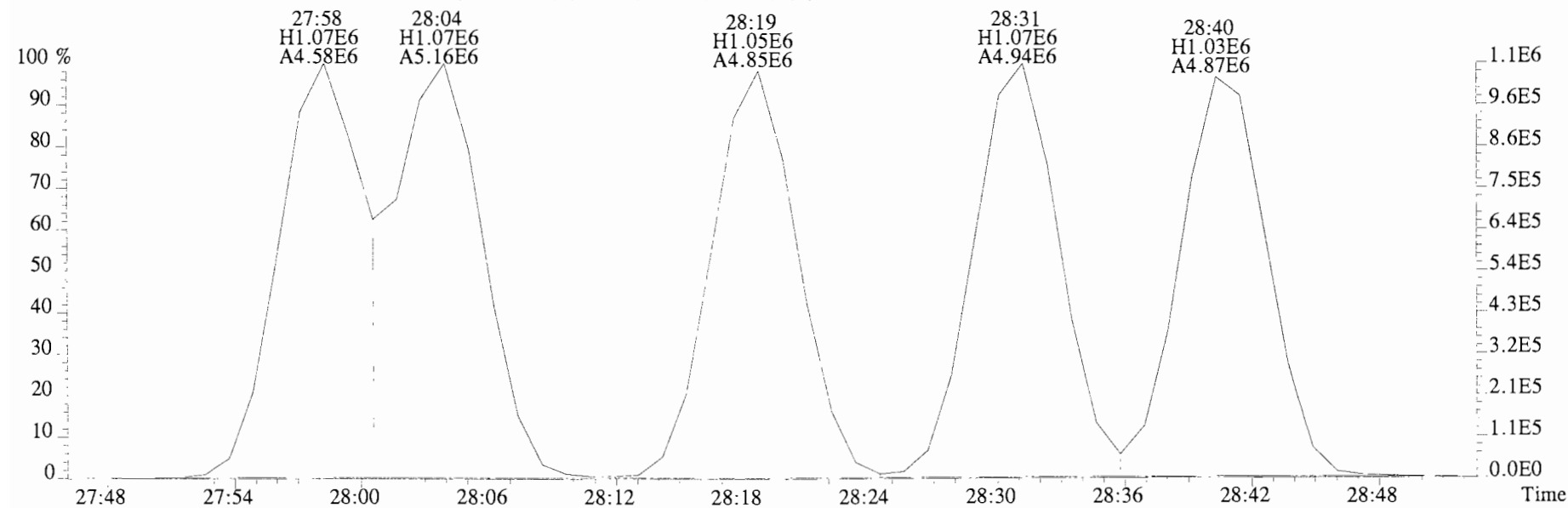
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4904.0,0.00%,F,F)



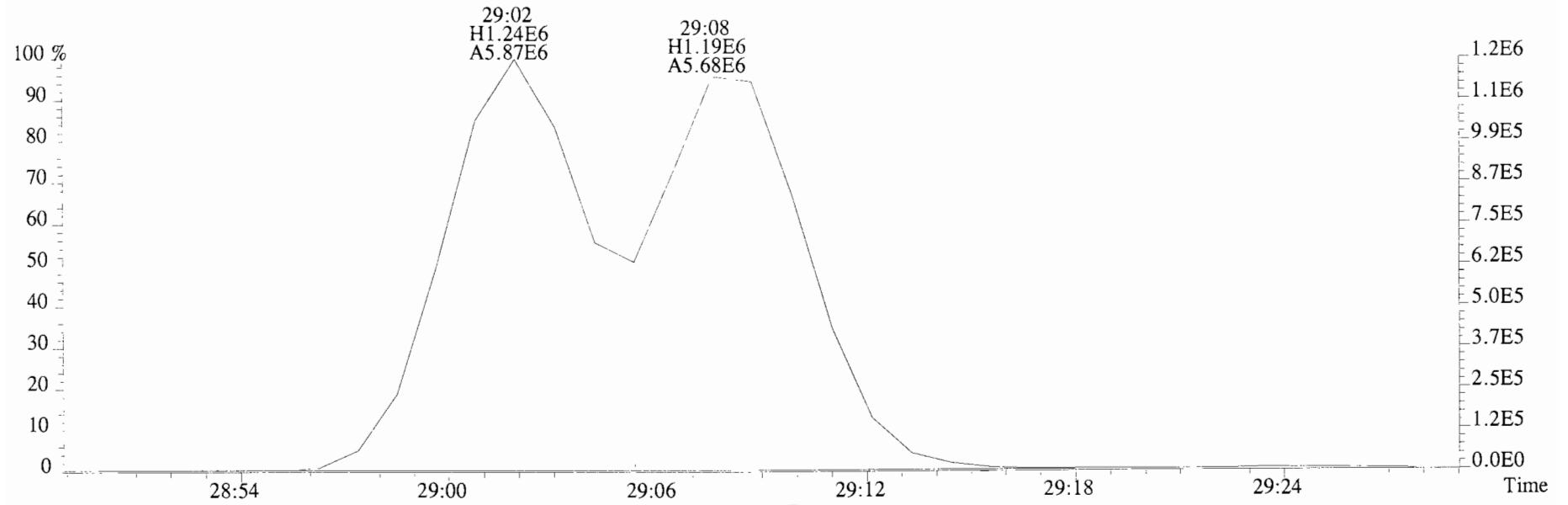
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4904.0,0.00%,F,F)



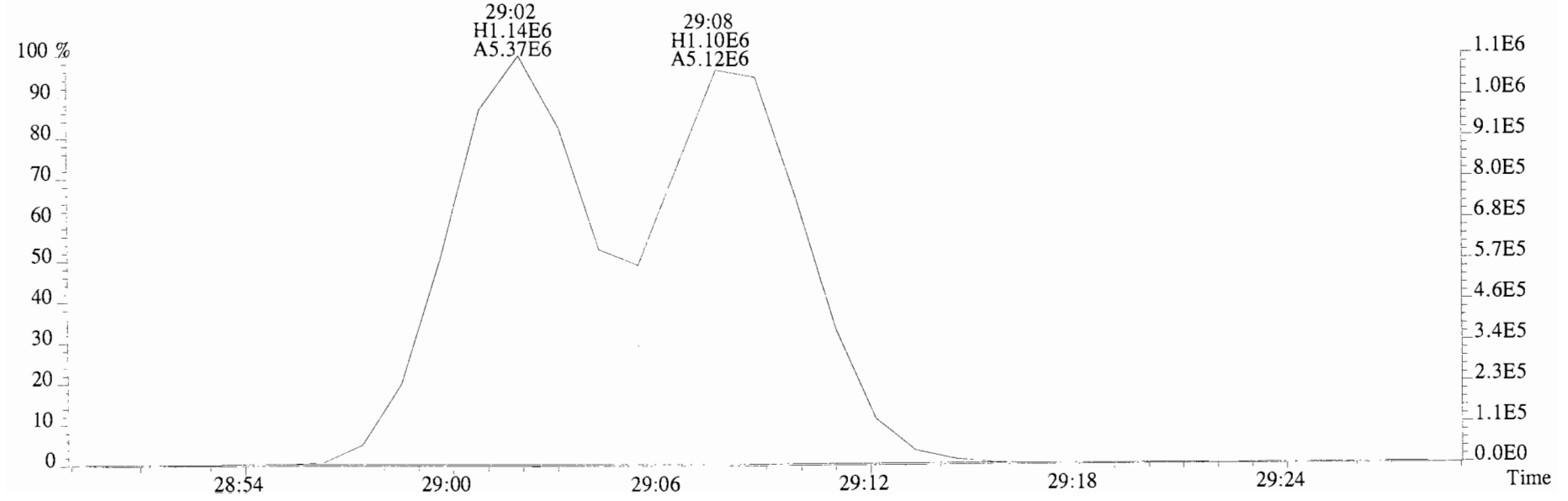
257.9584 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2088.0,0.00%,F,F)



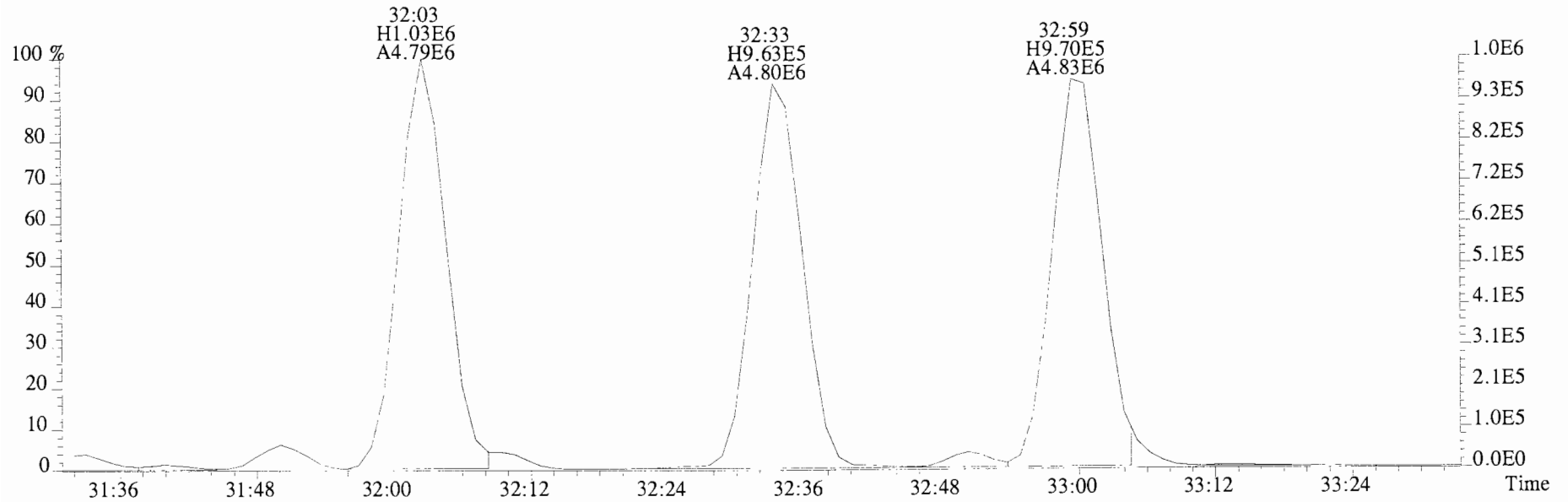
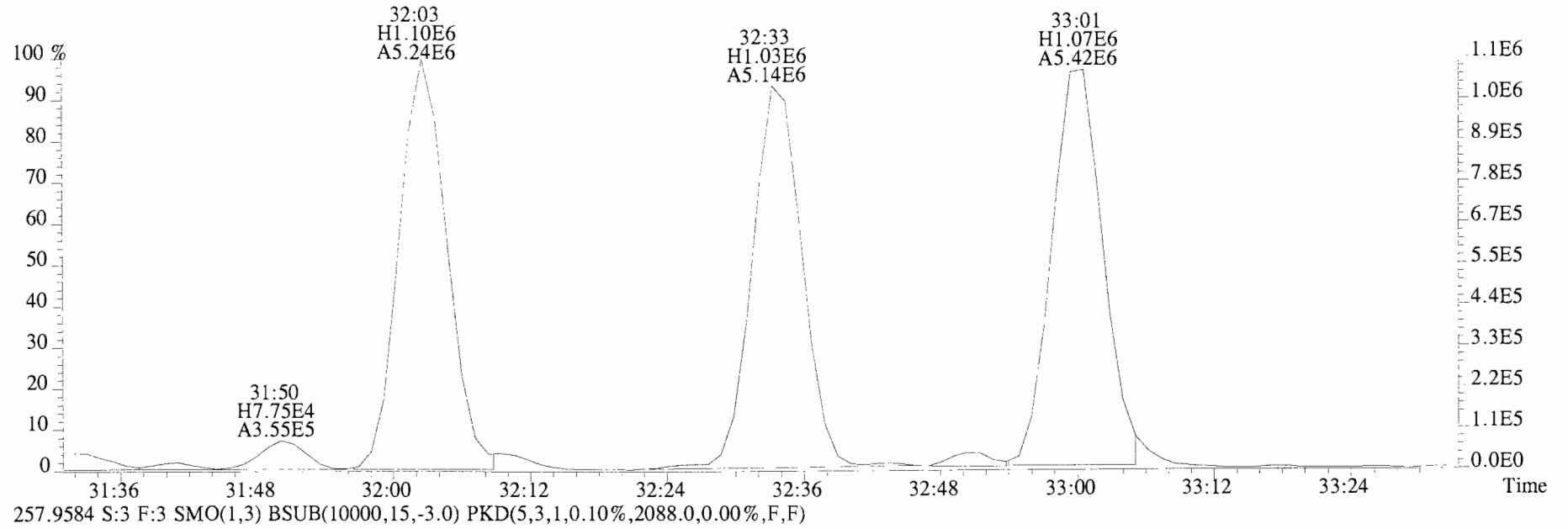
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4904.0,0.00%,F,F)



257.9584 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2088.0,0.00%,F,F)

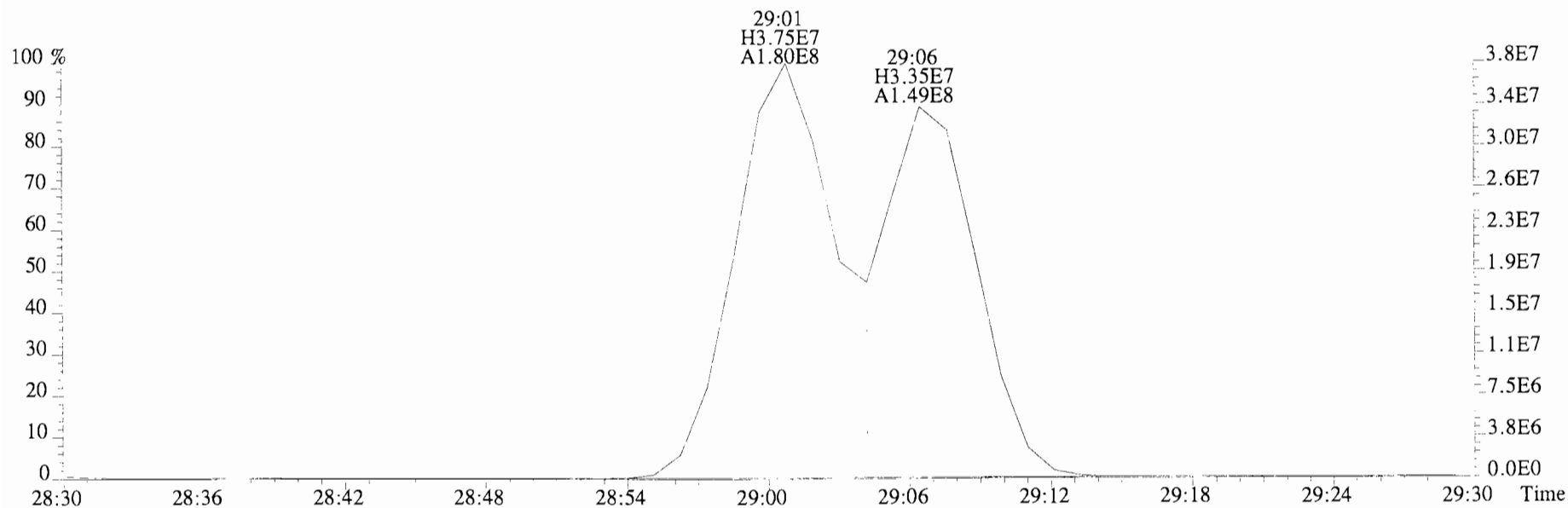
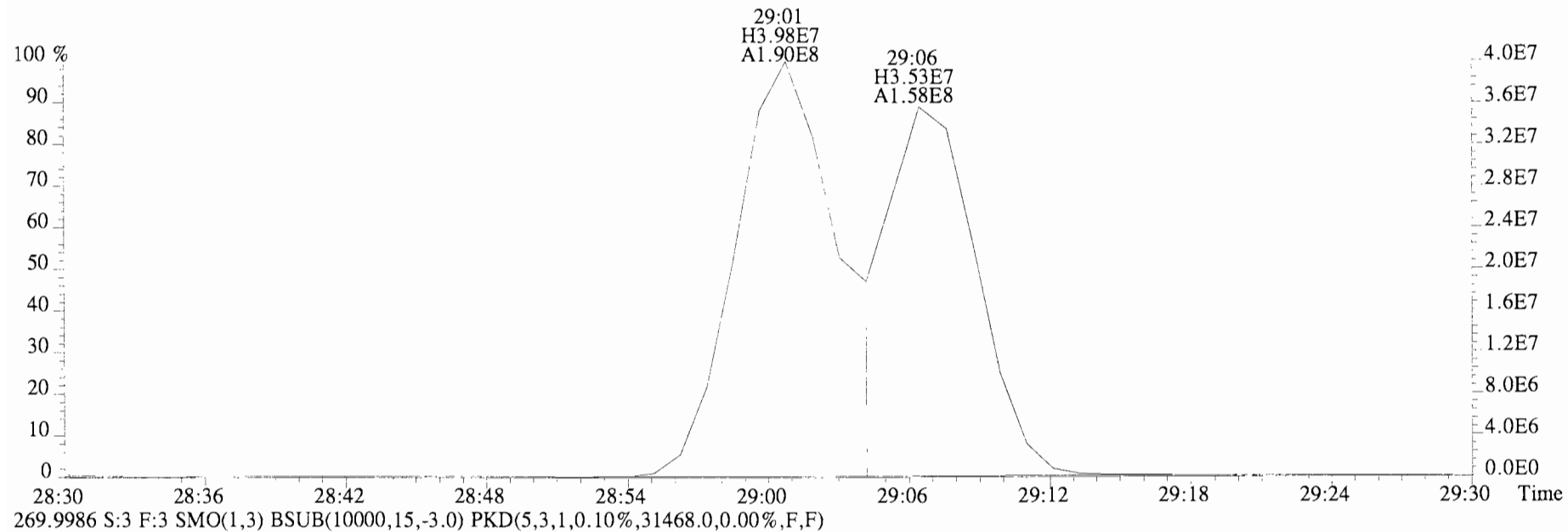


File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4904.0,0.00%,F,F)

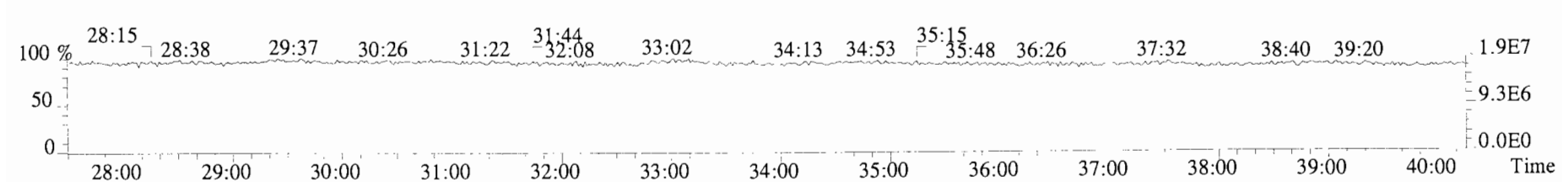
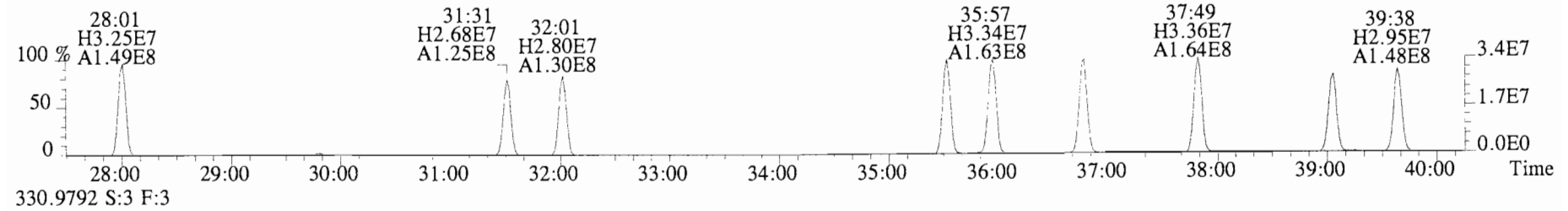
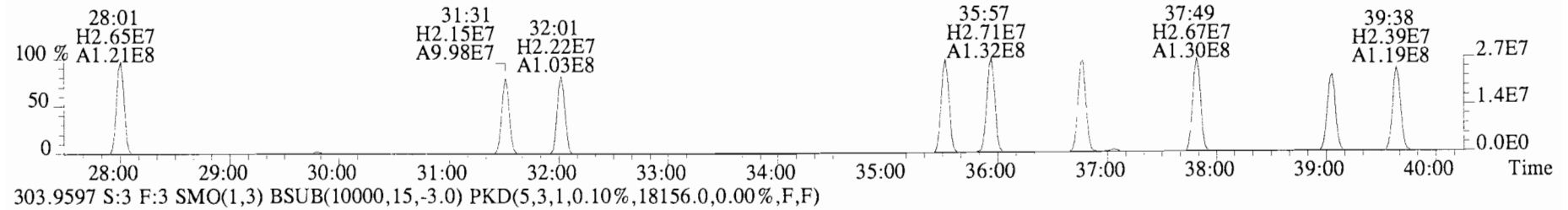
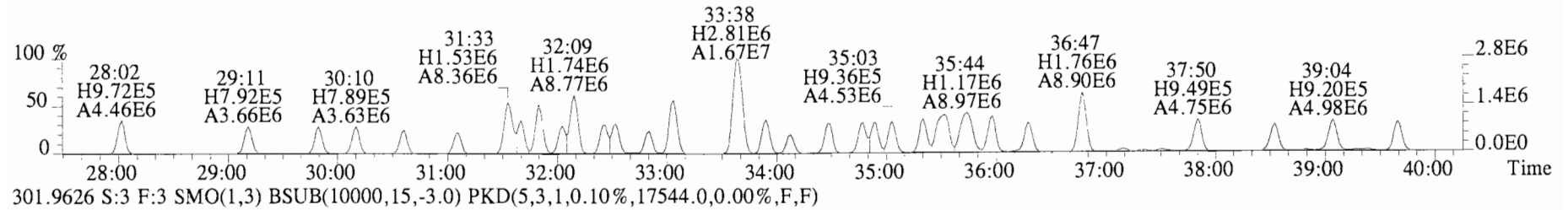
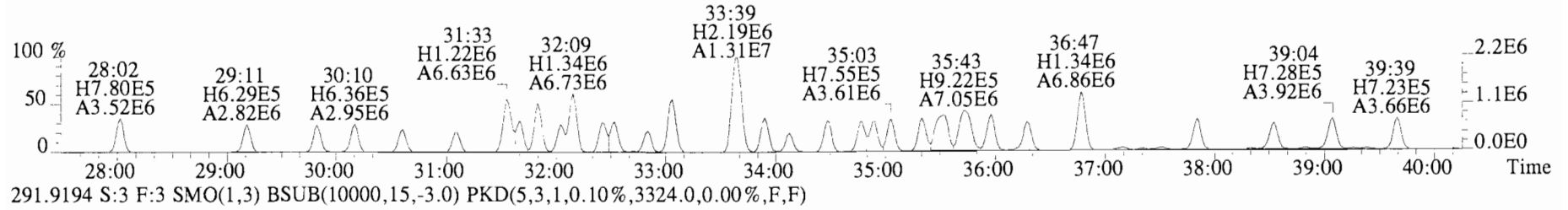




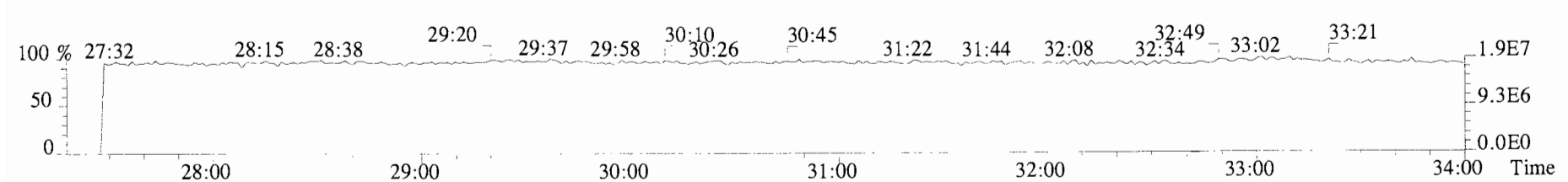
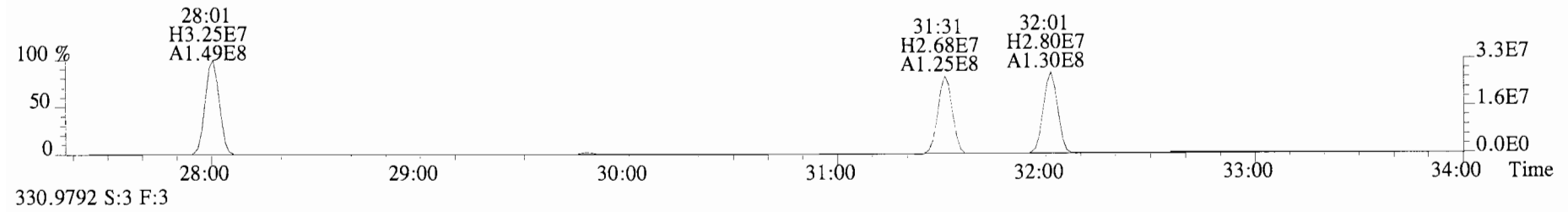
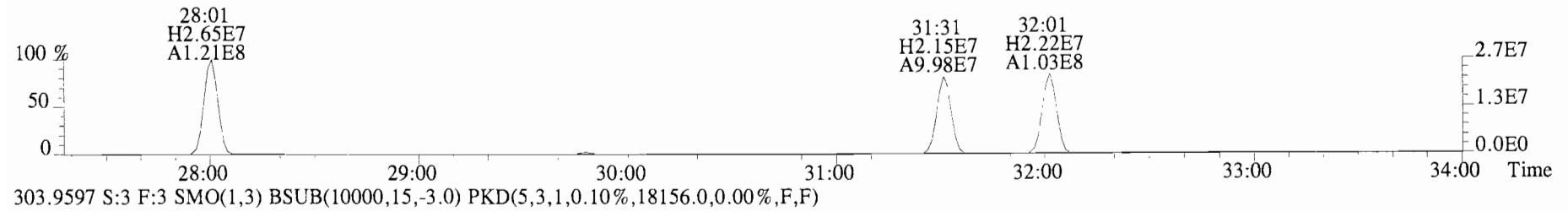
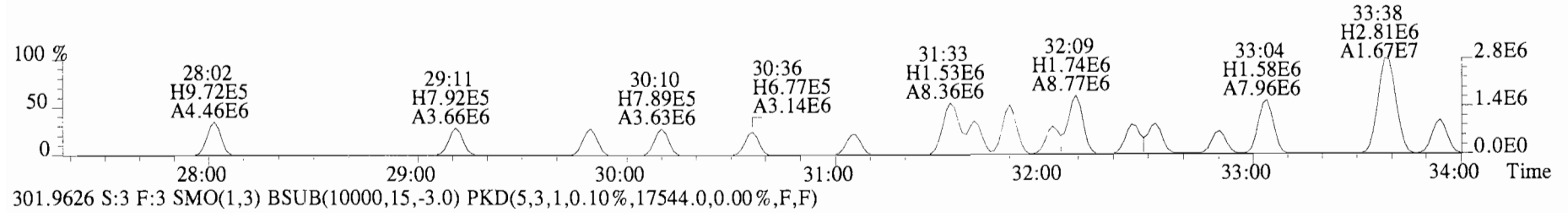
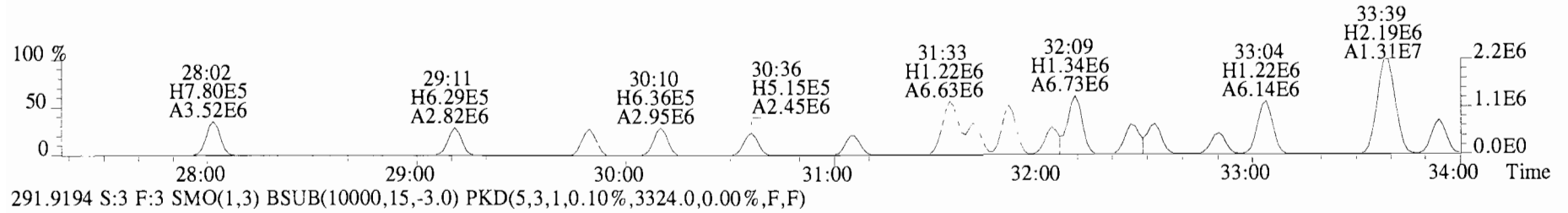
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
268.0016 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,60232.0,0.00%,F,F)



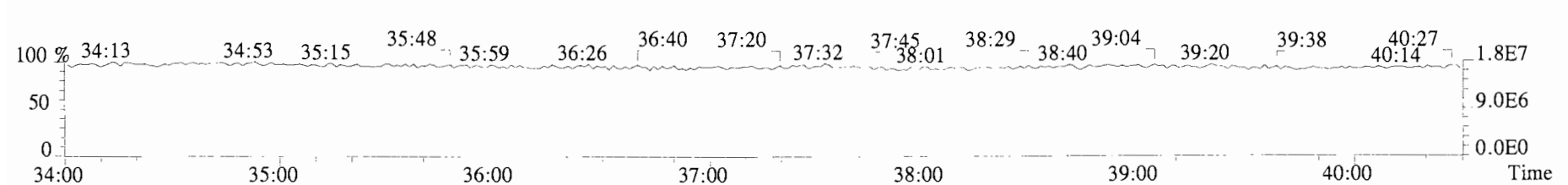
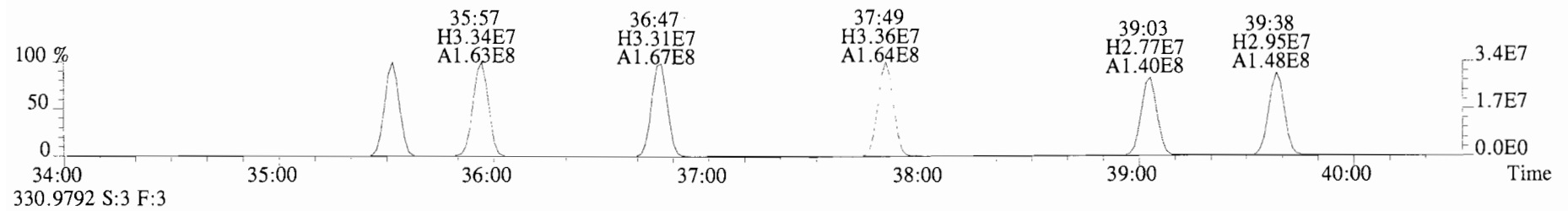
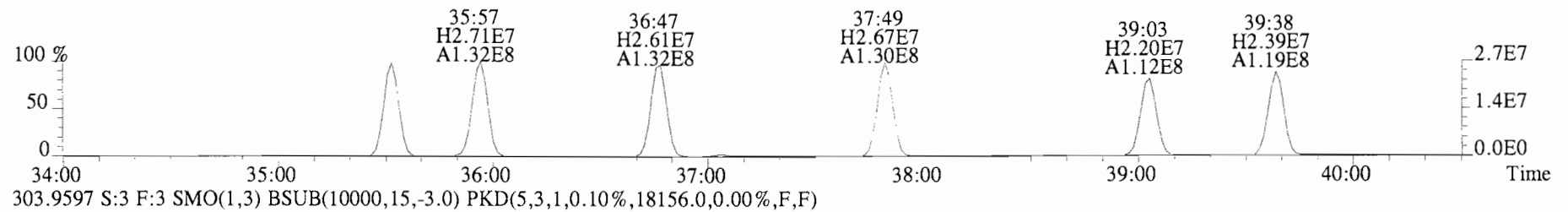
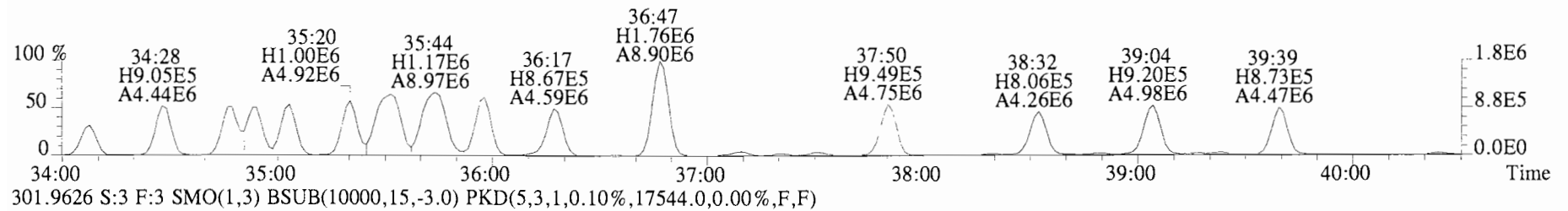
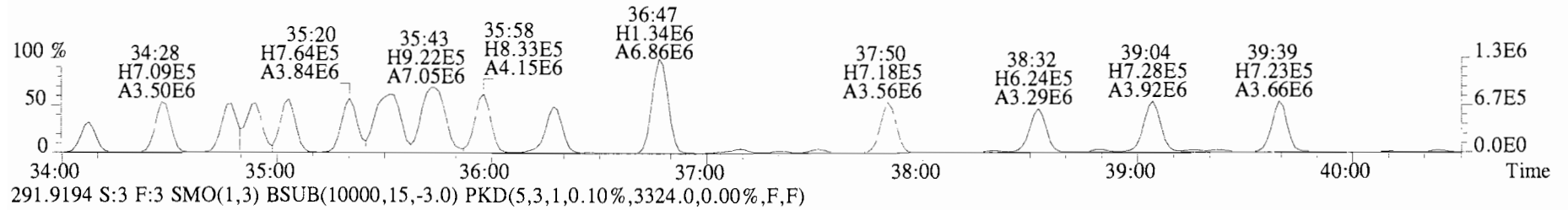
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



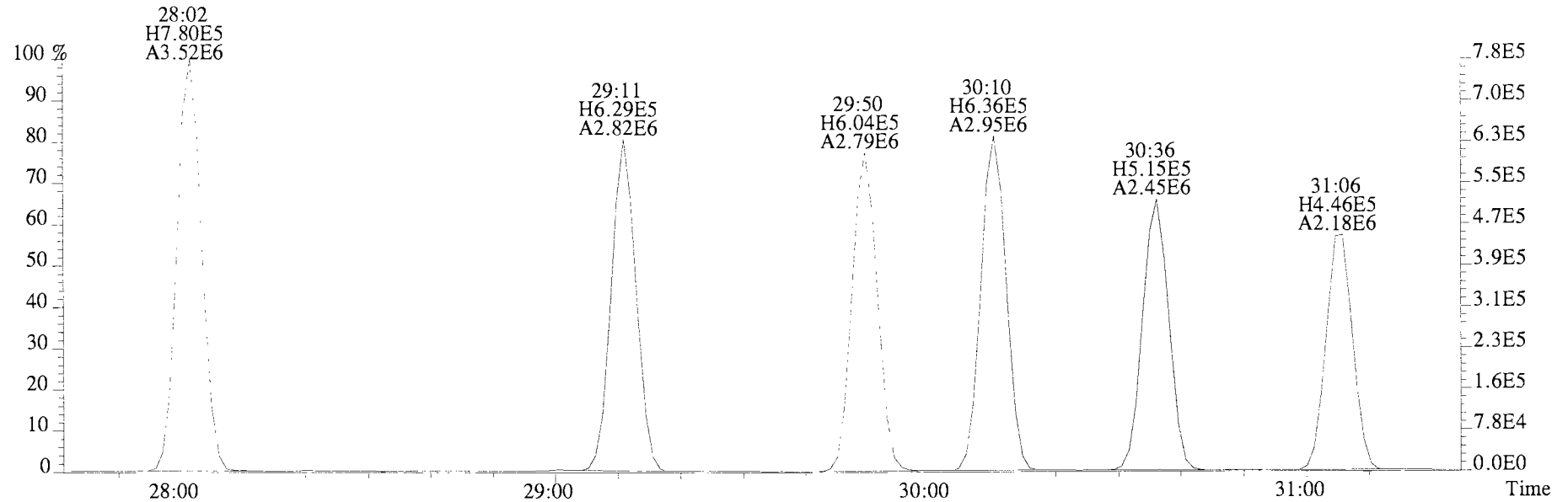
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



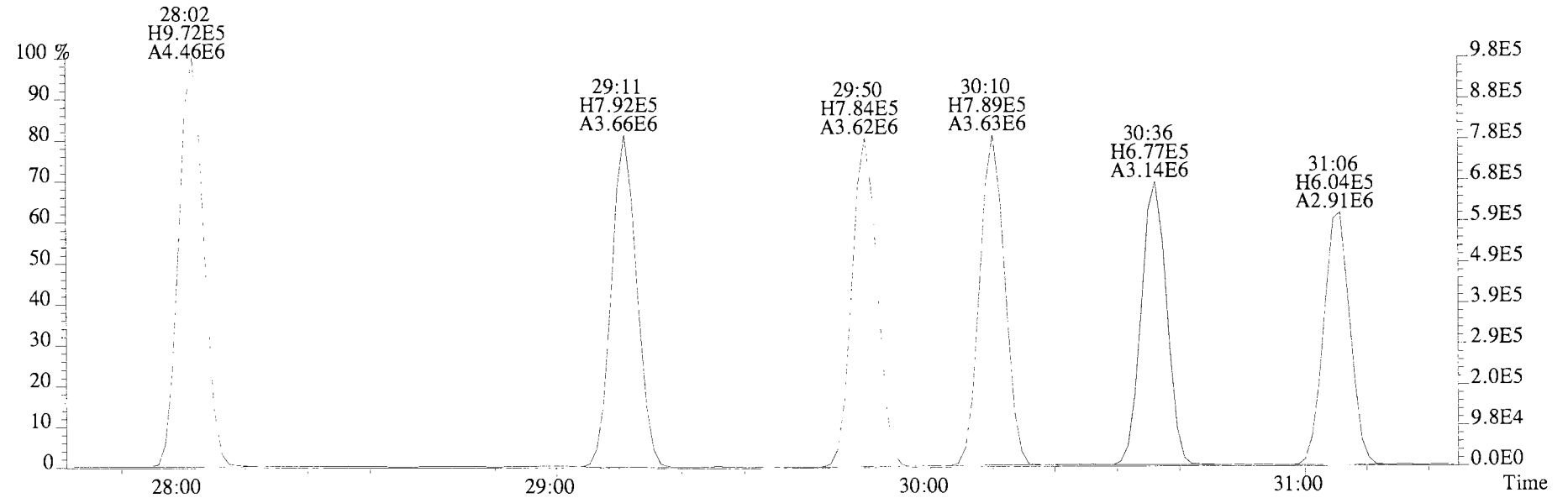
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



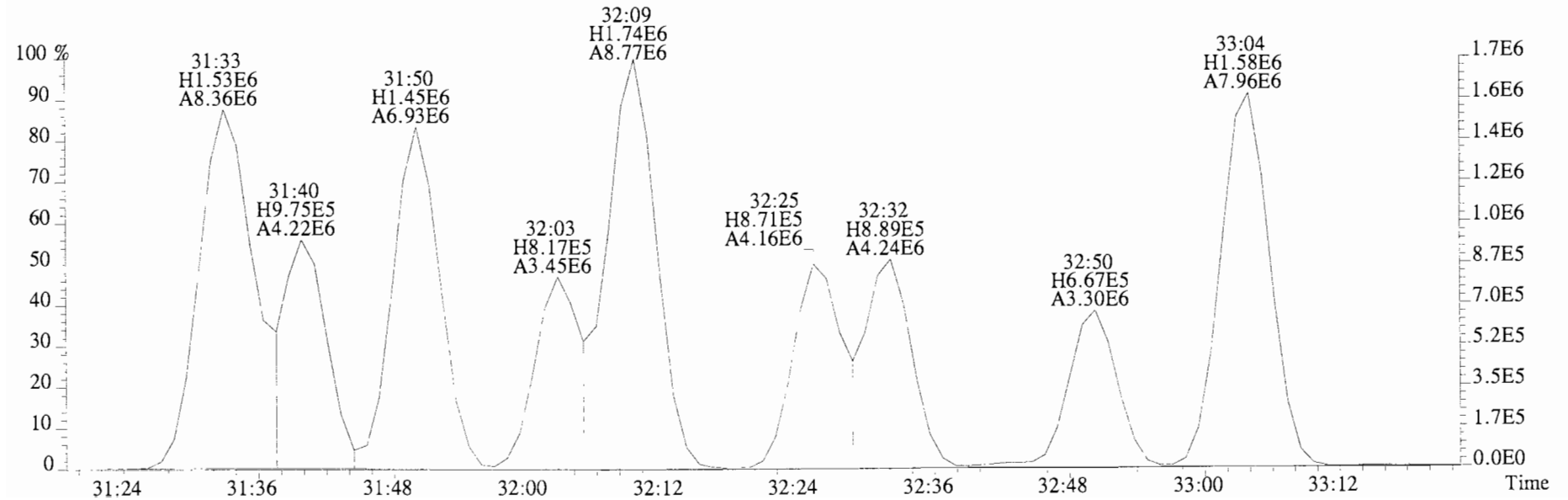
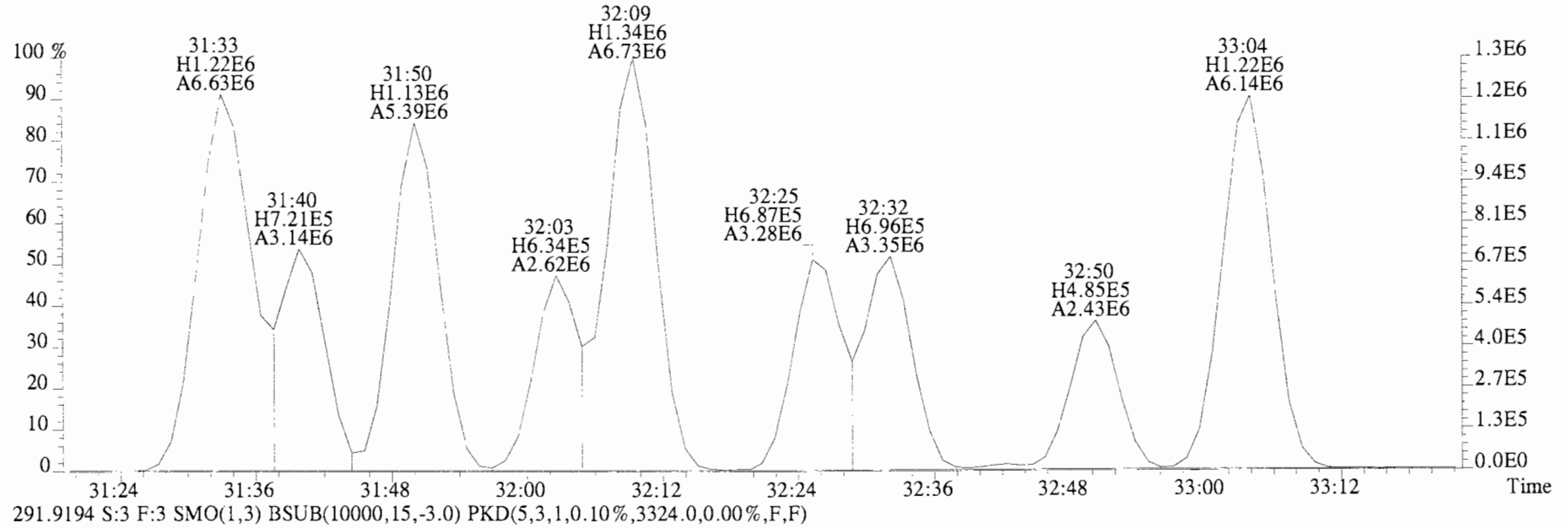
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



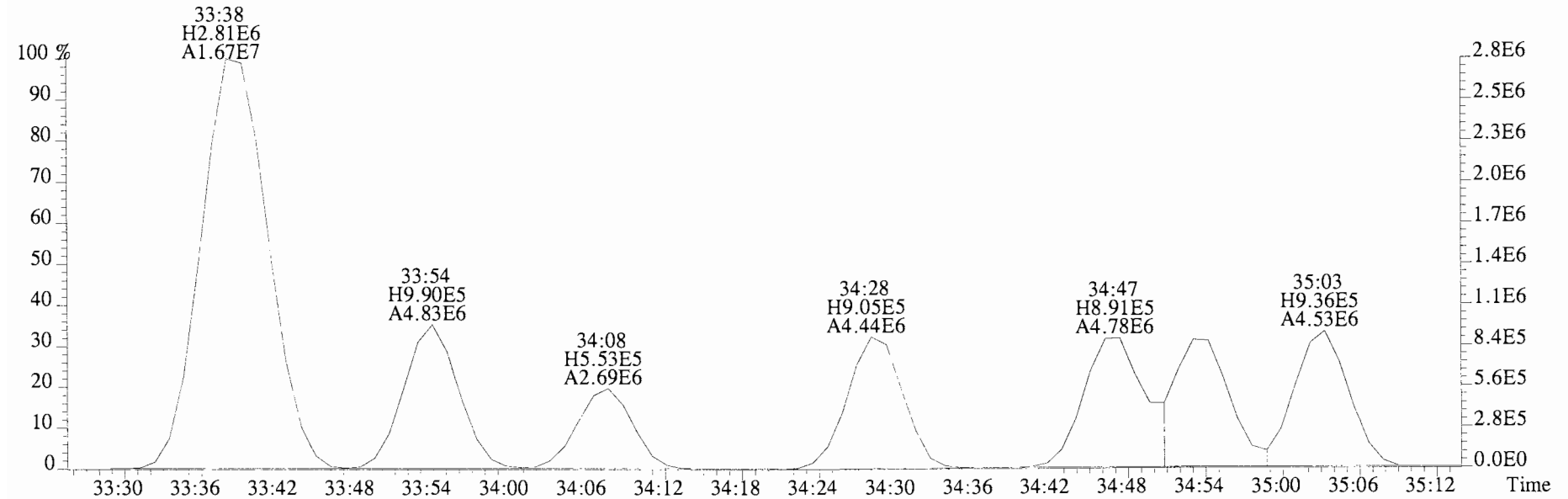
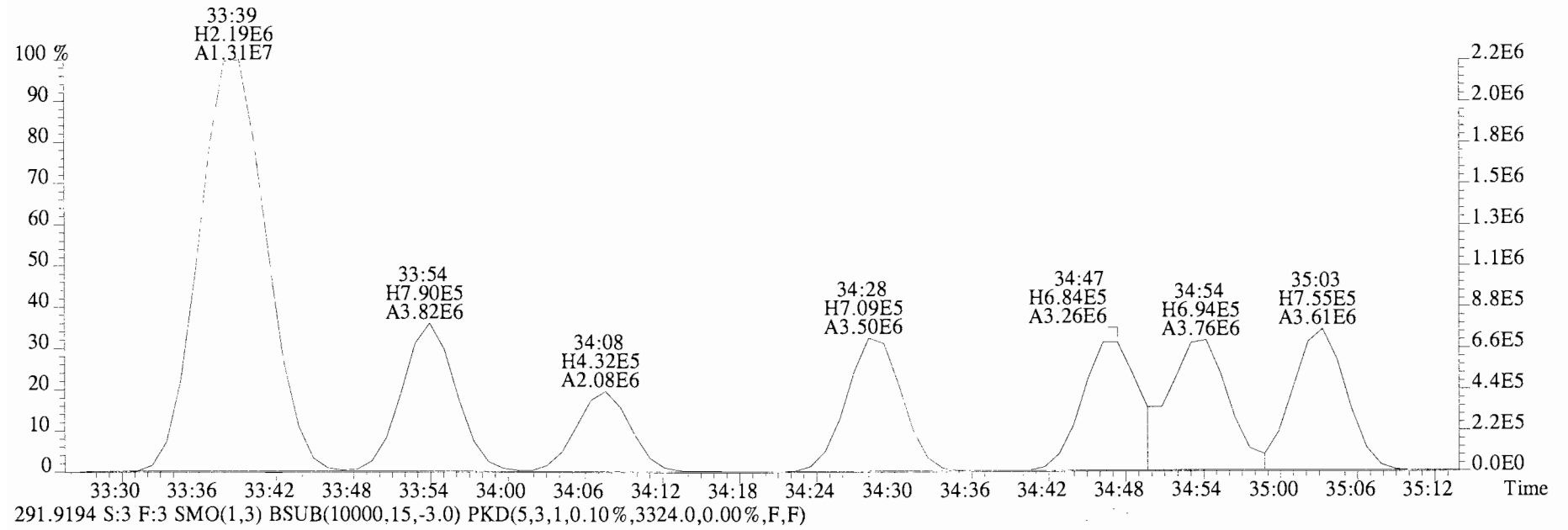
291.9194 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3324.0,0.00%,F,F)



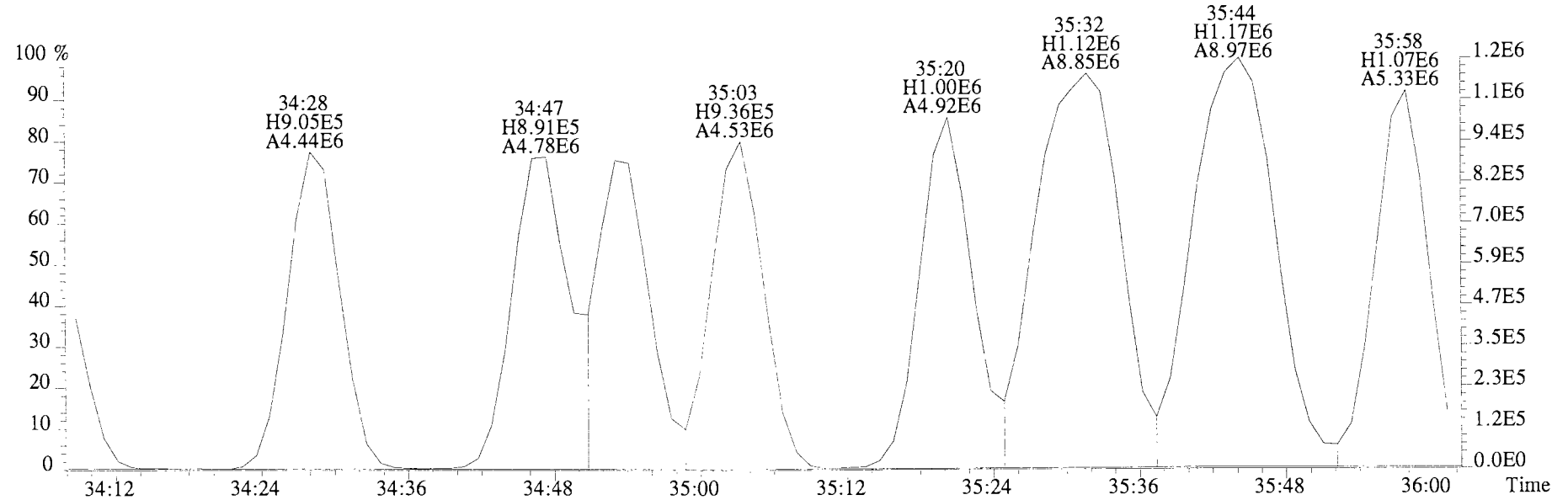
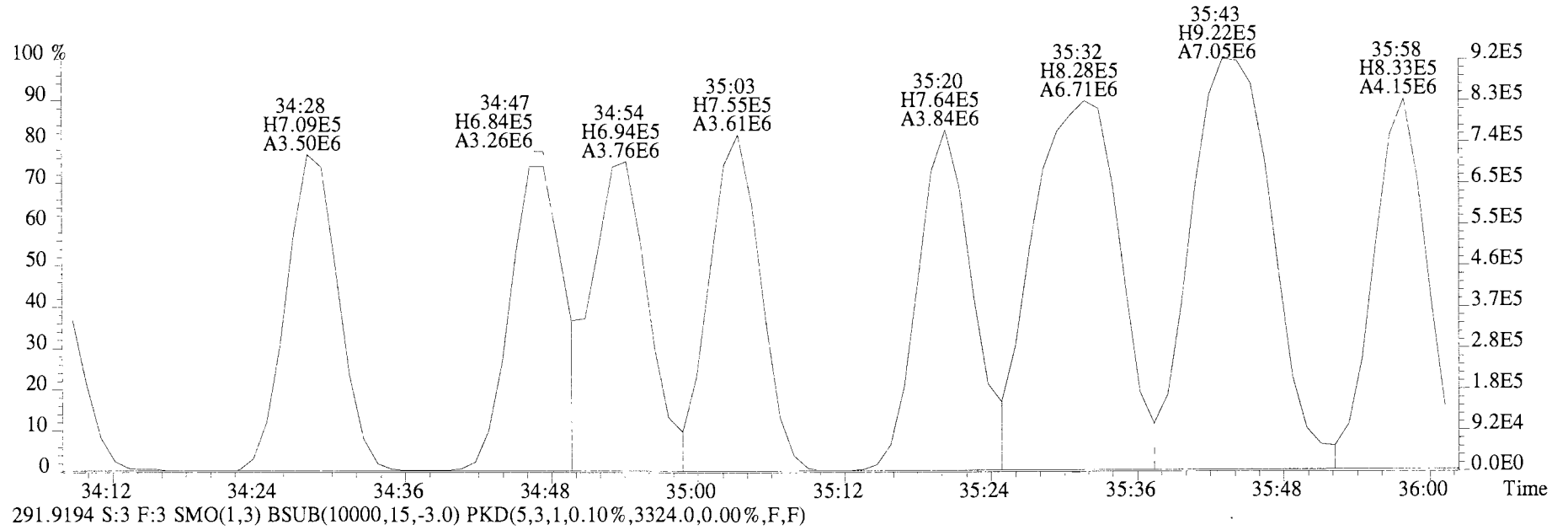
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)

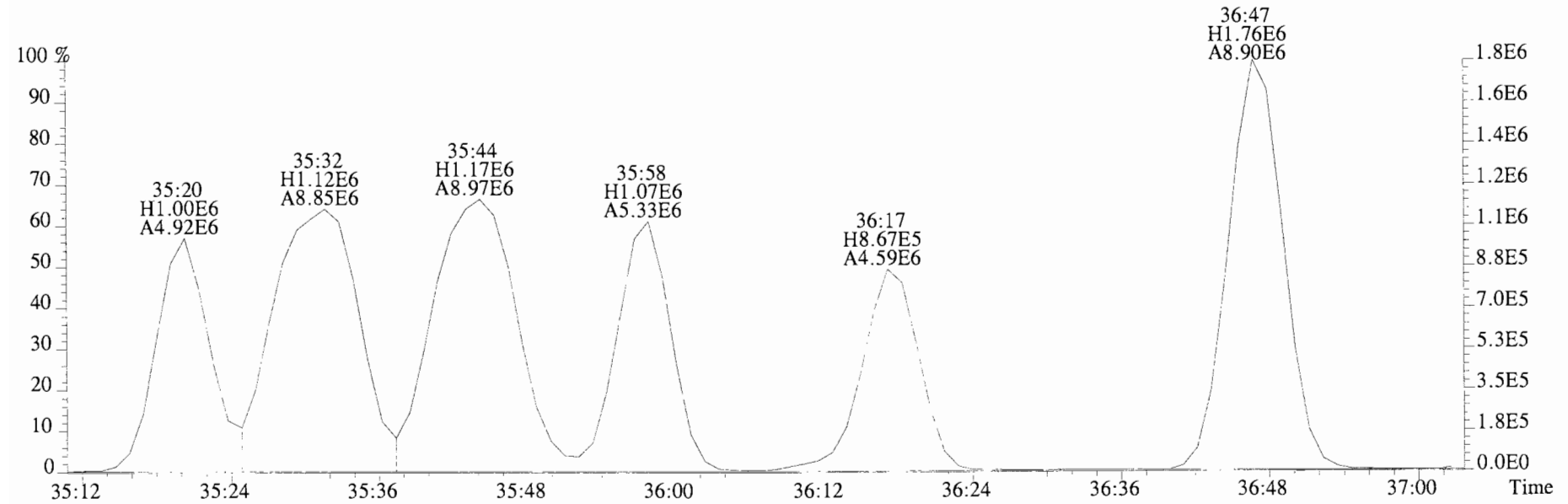
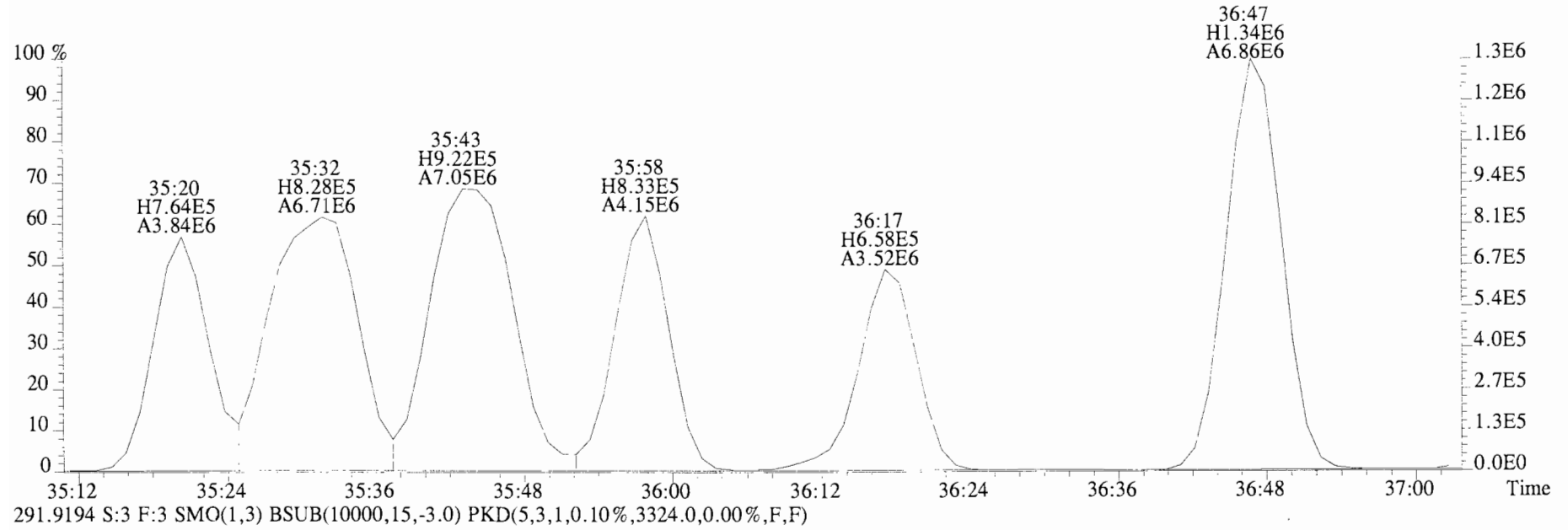


File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)

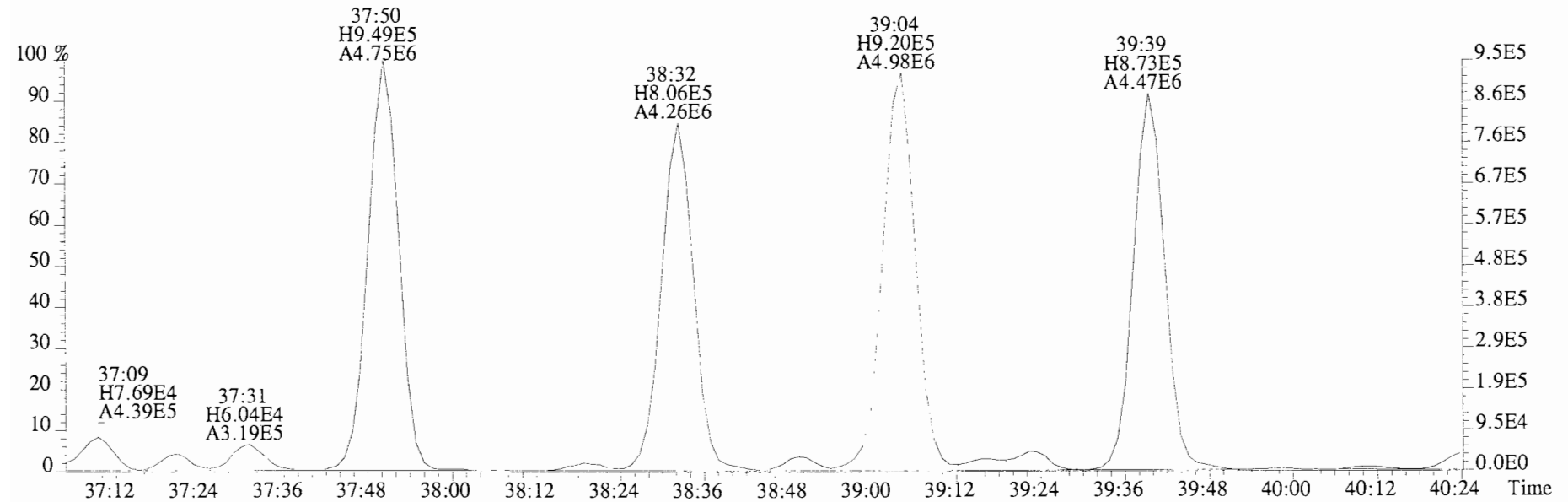
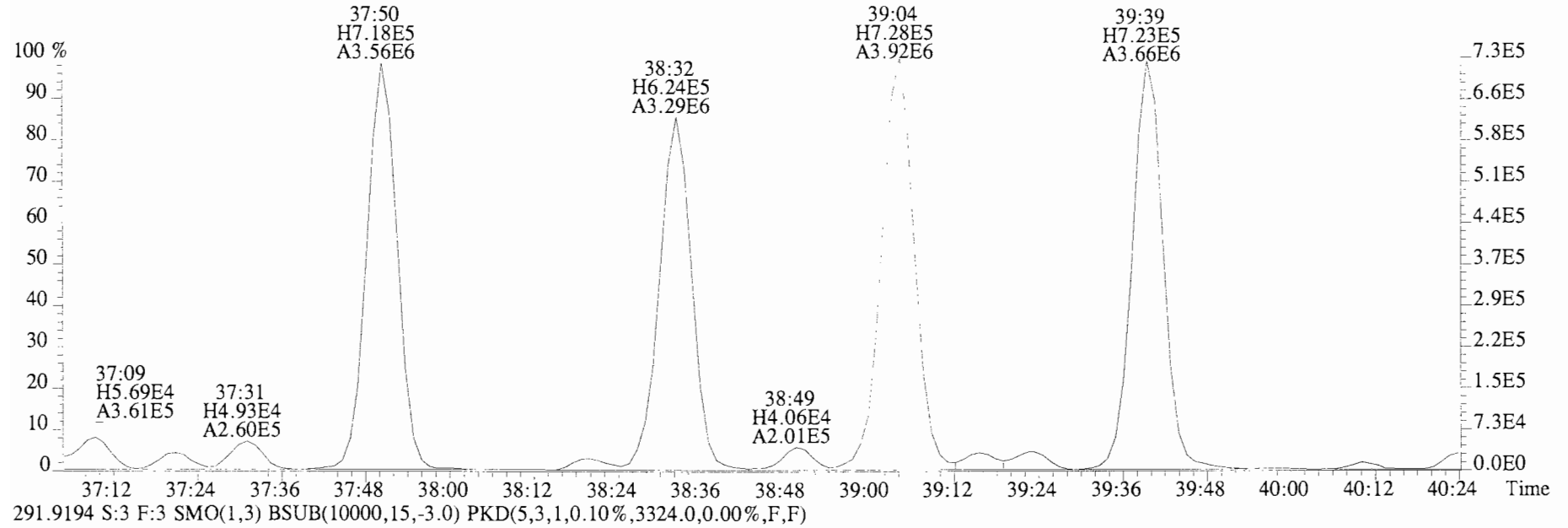




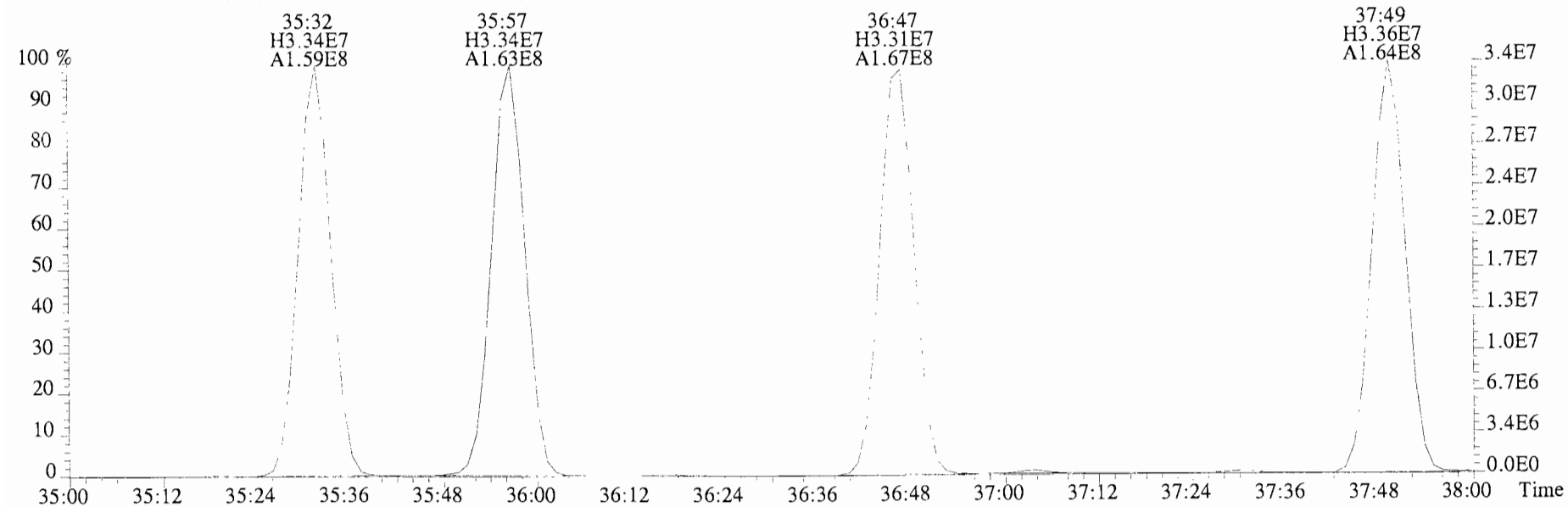
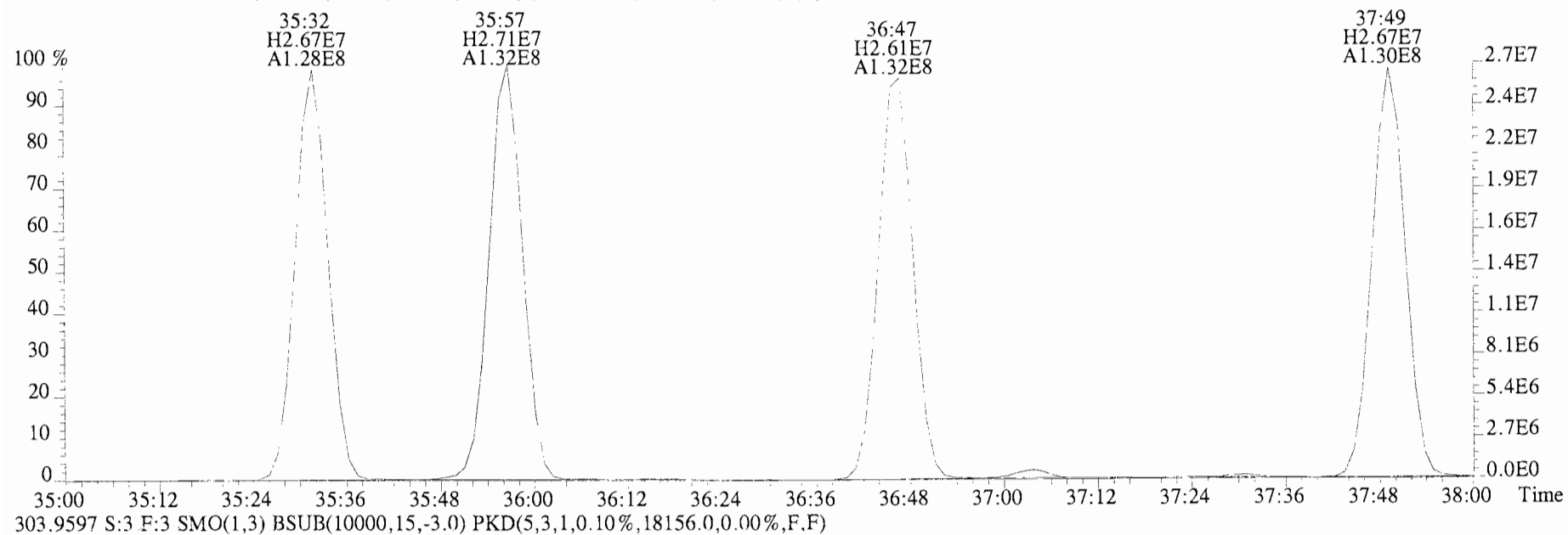
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



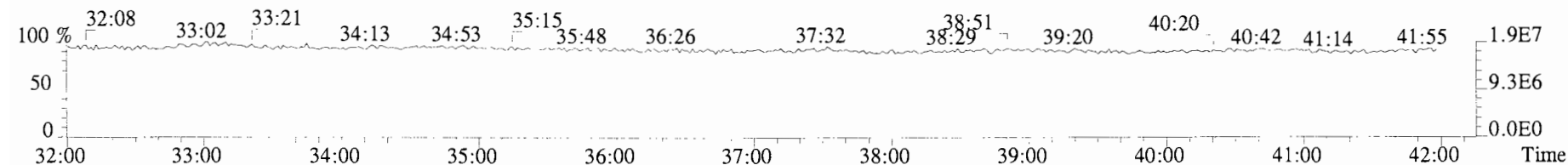
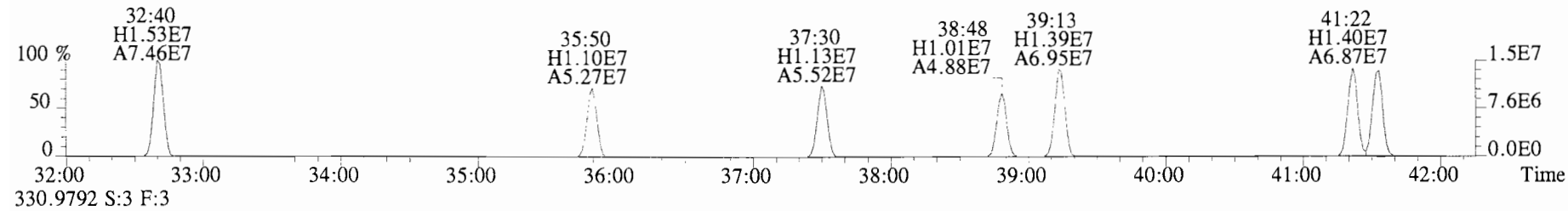
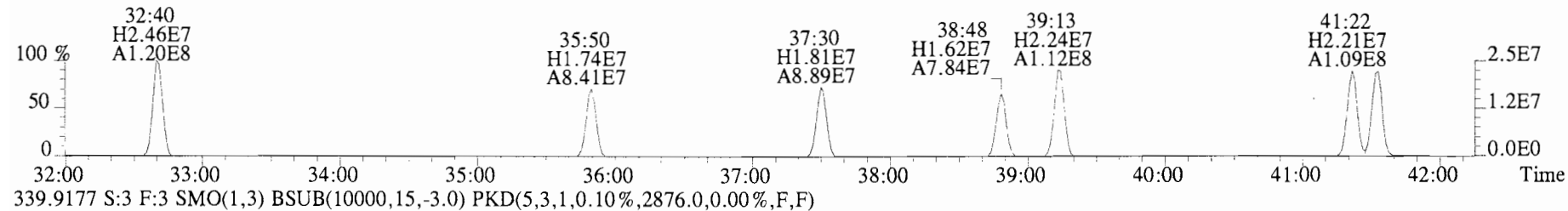
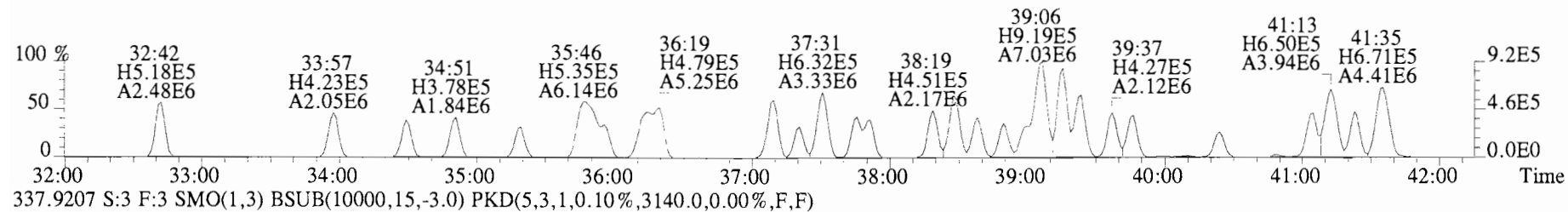
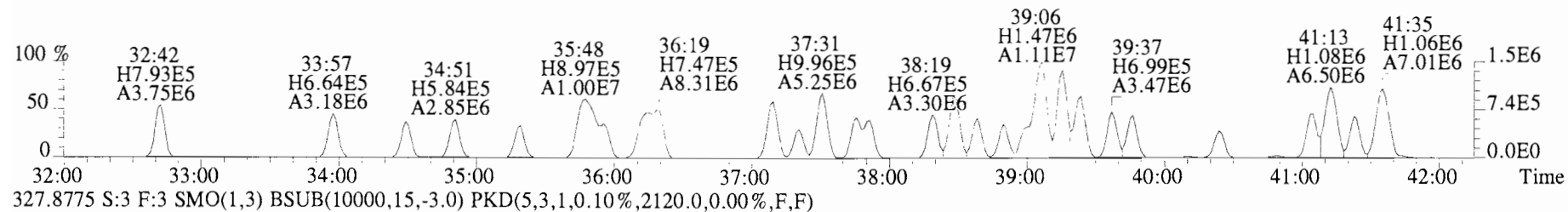
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2772.0,0.00%,F,F)



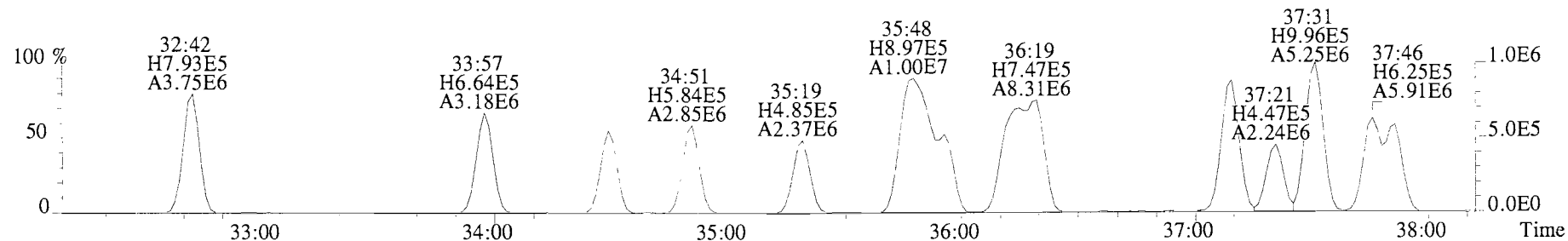
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,17544.0,0.00%,F,F)



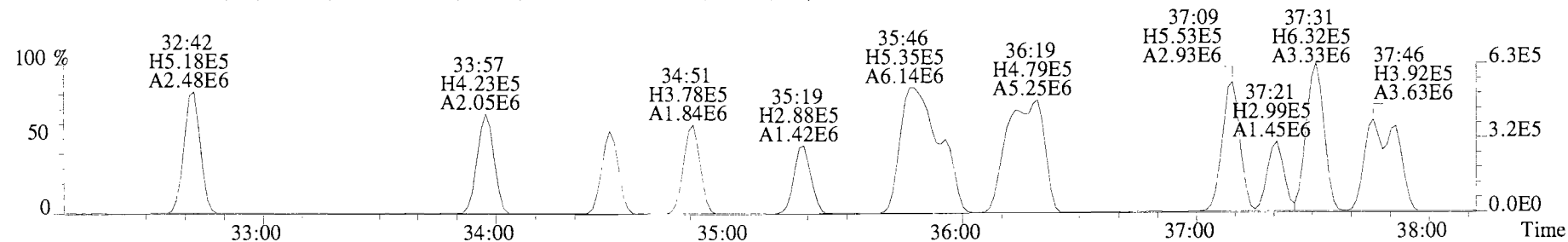
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



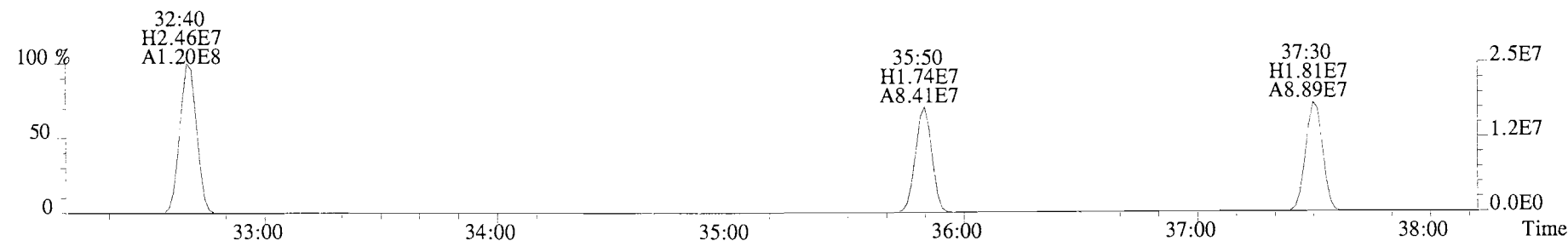
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



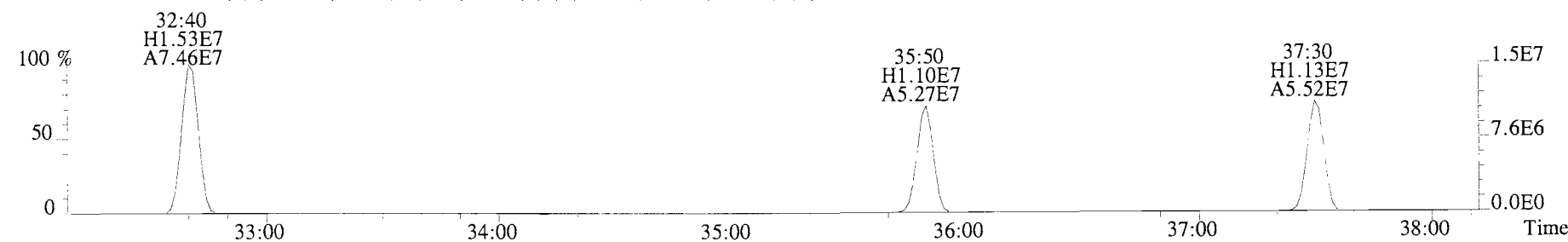
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2120.0,0.00%,F,F)



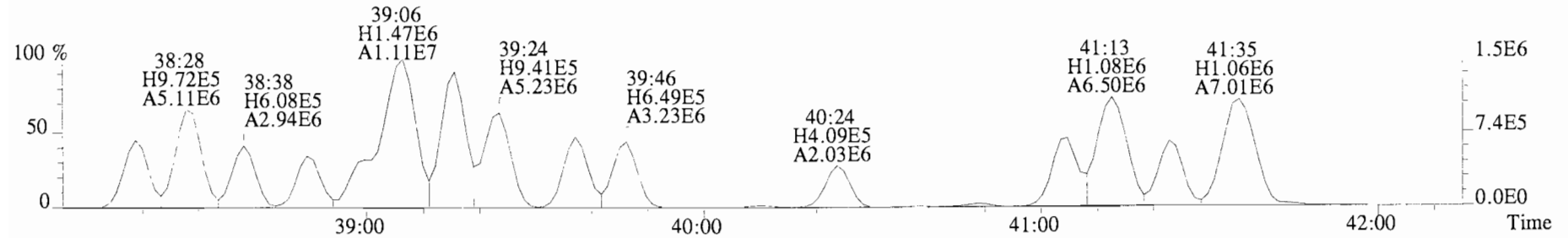
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3140.0,0.00%,F,F)



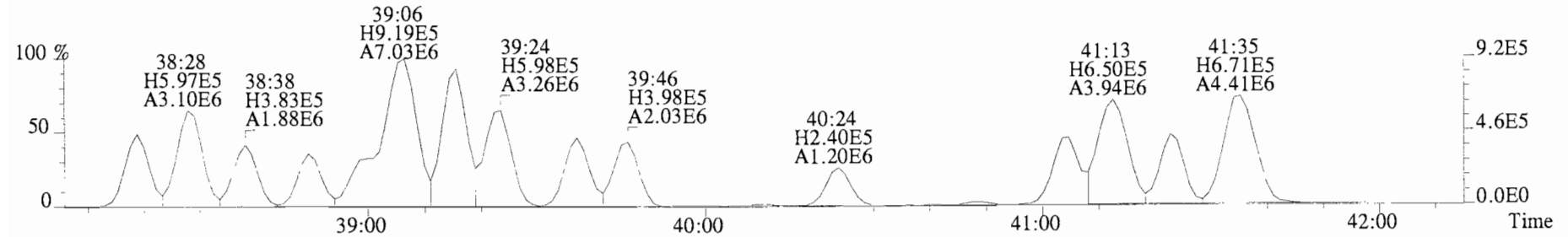
339.9177 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2876.0,0.00%,F,F)



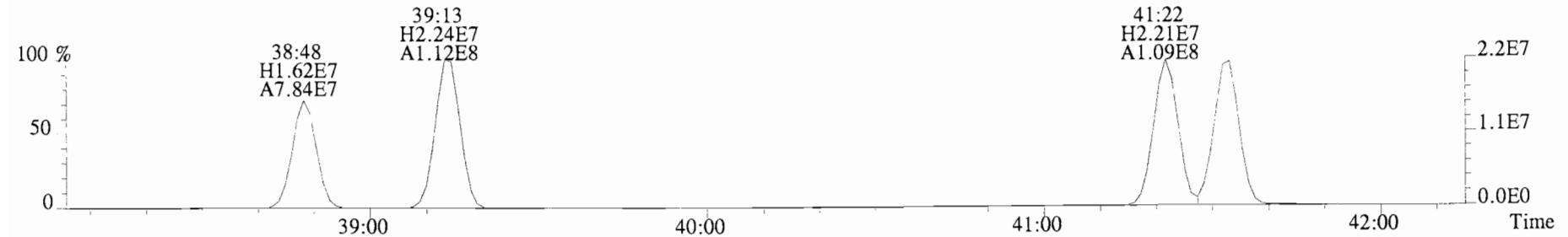
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



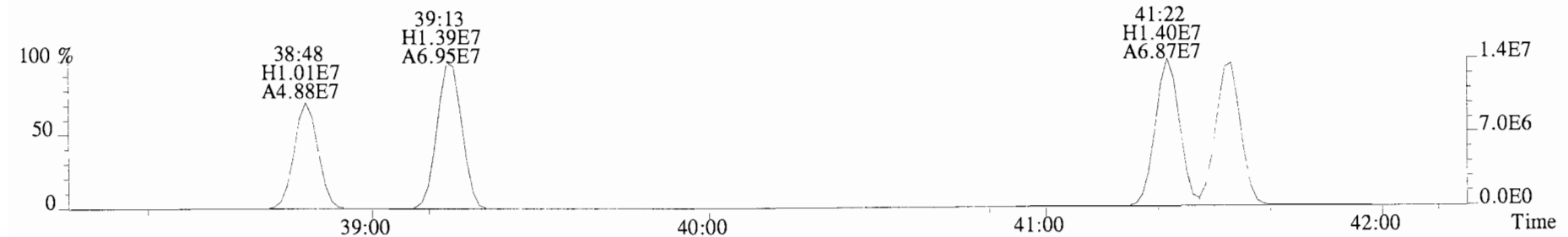
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2120.0,0.00%,F,F)



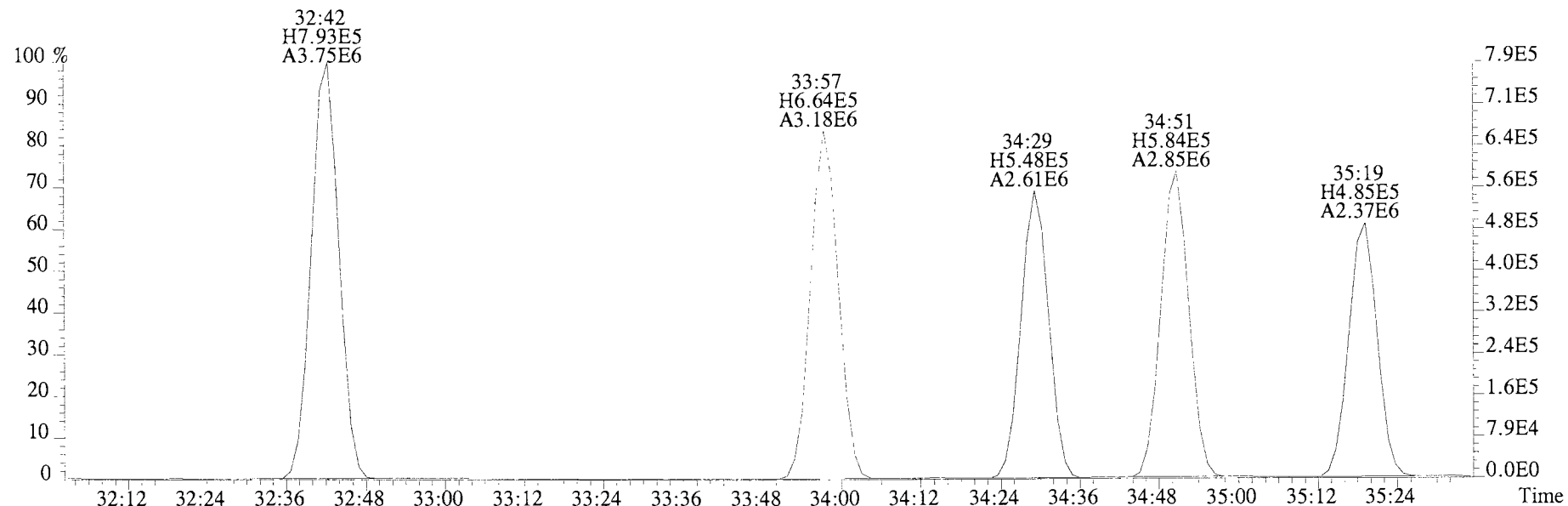
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3140.0,0.00%,F,F)



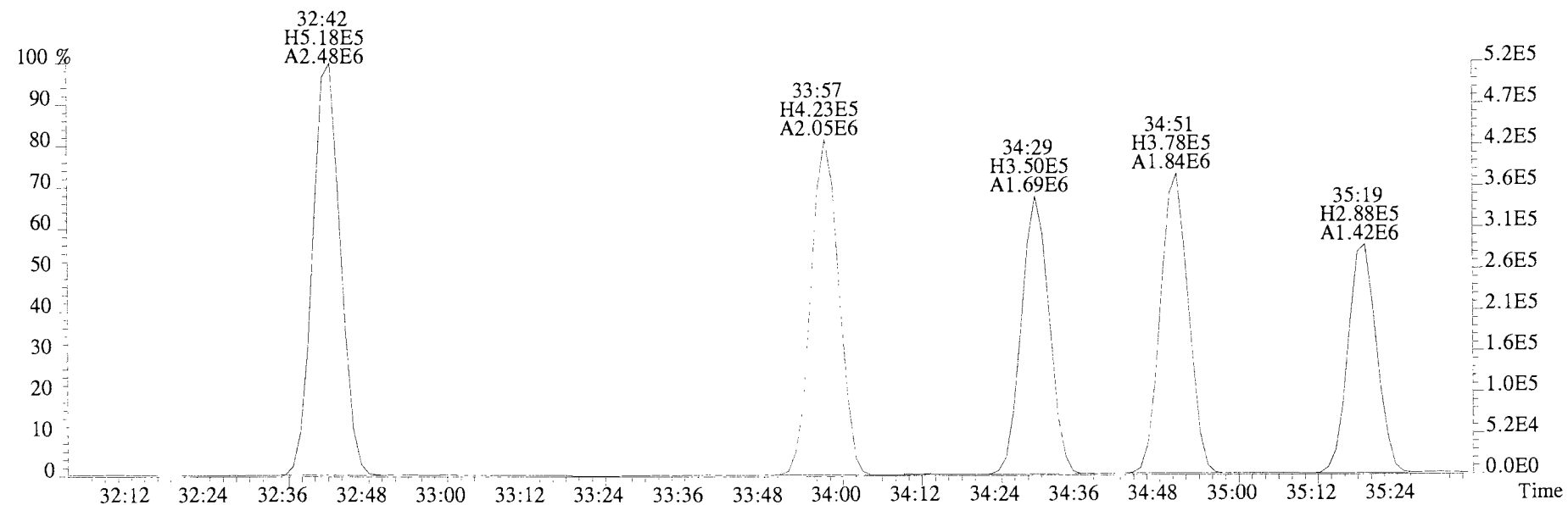
339.9177 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2876.0,0.00%,F,F)



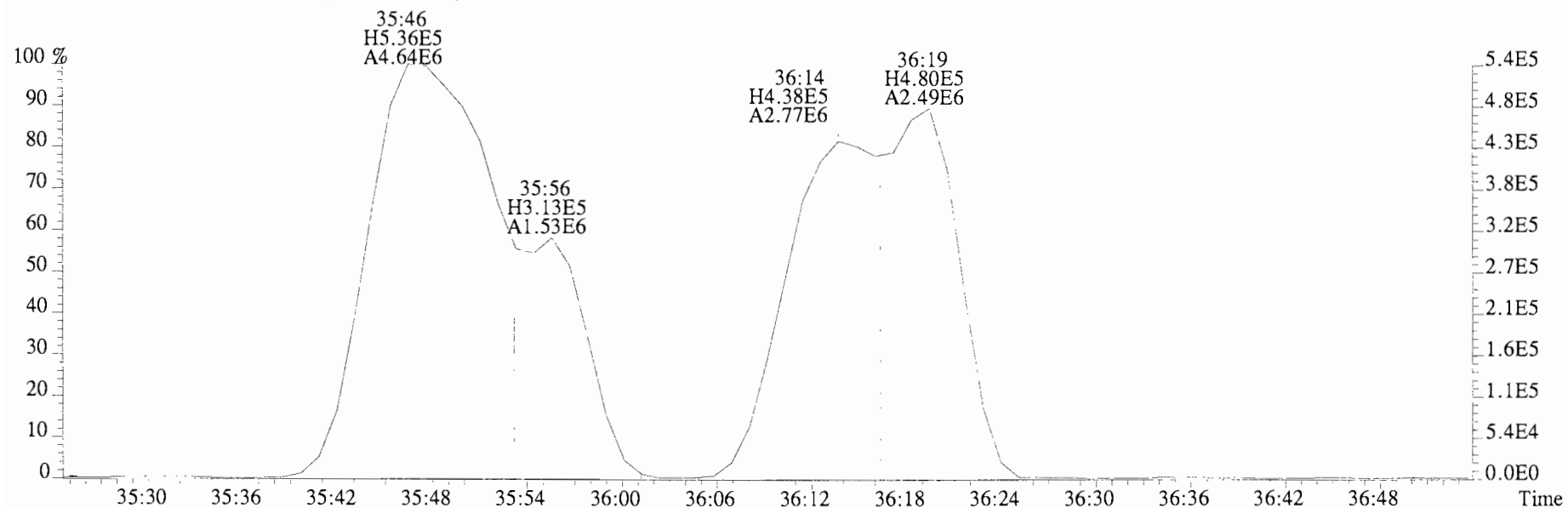
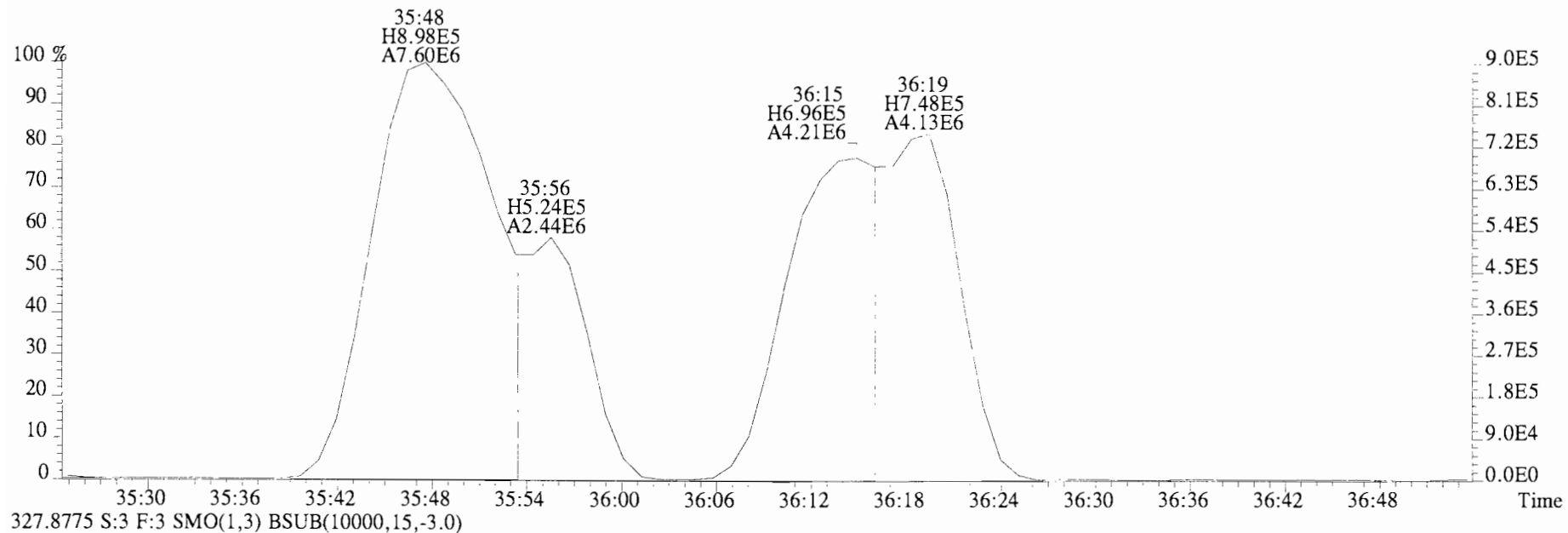
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2120.0,0.00%,F,F)

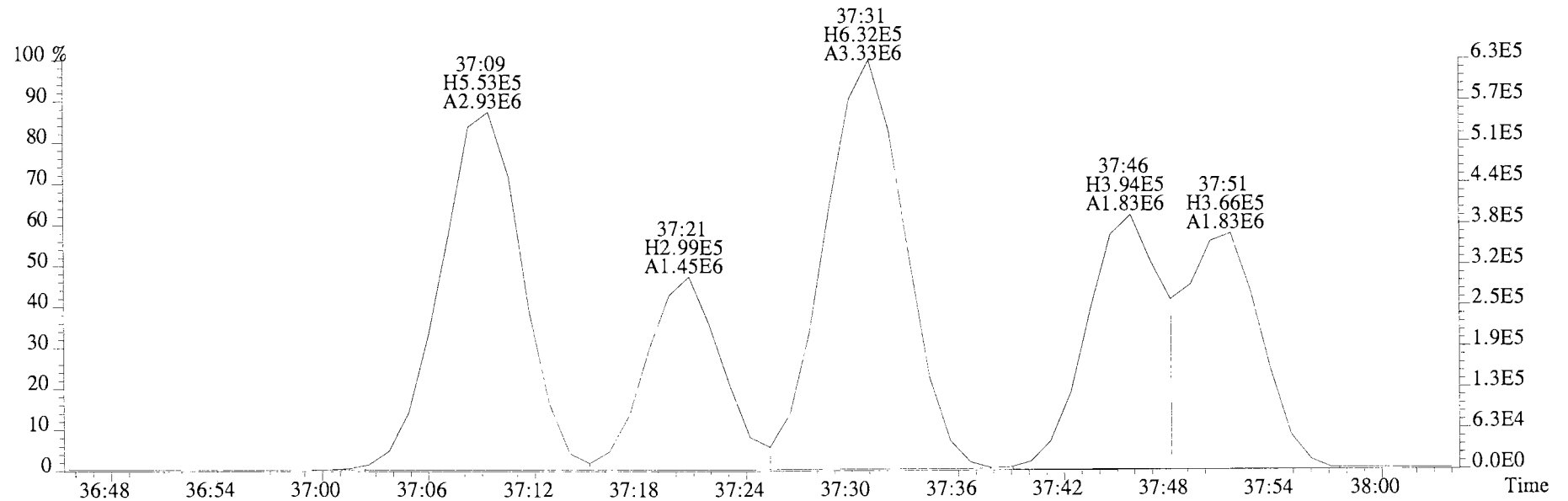
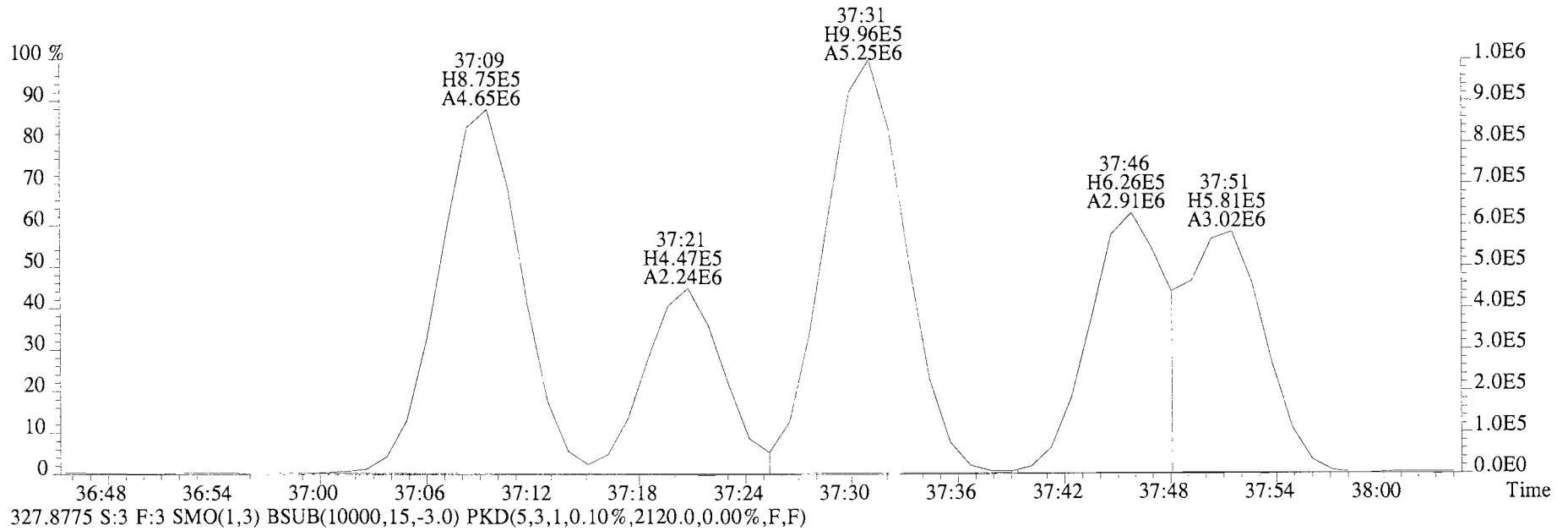


File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0)

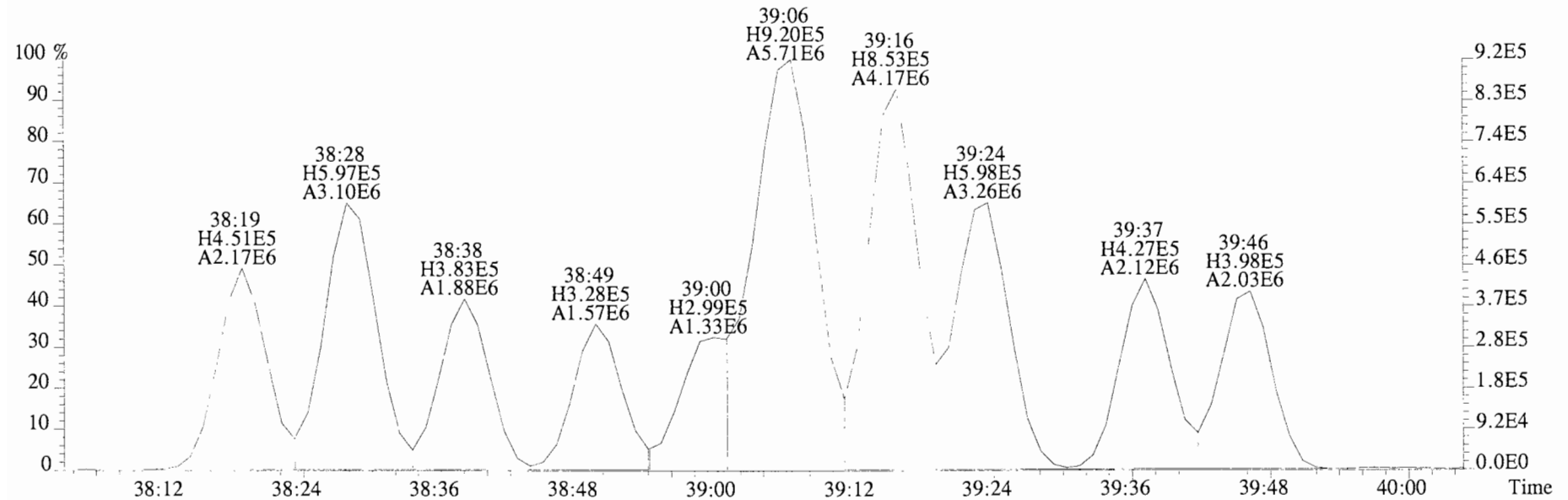
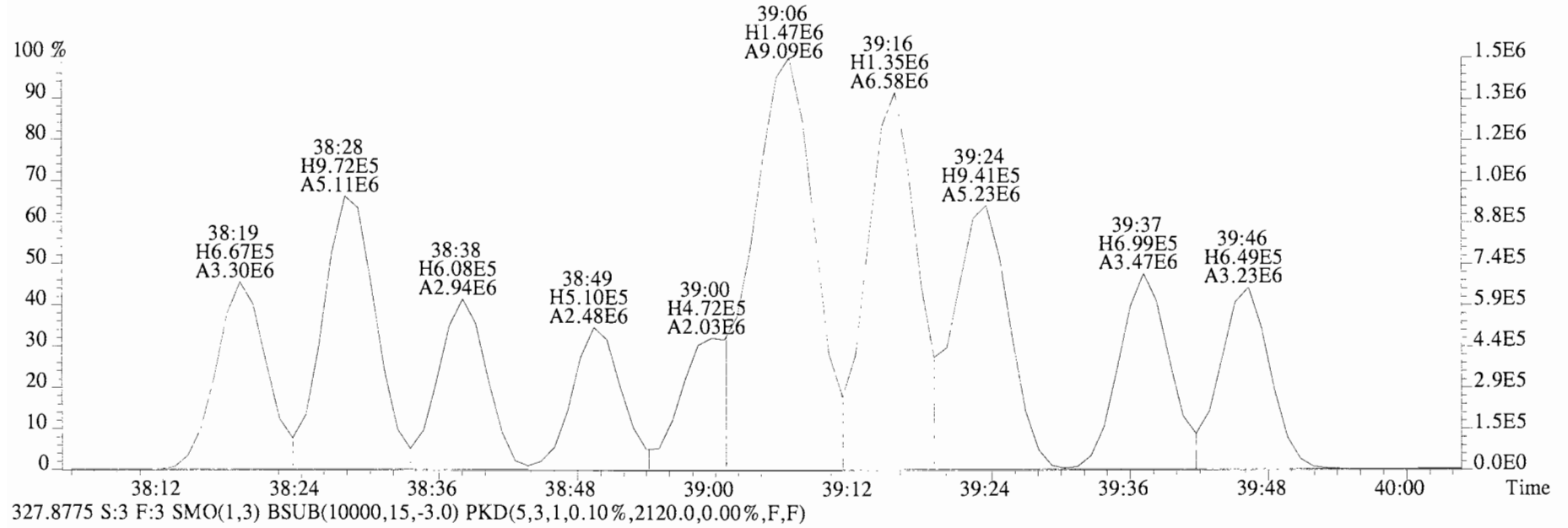




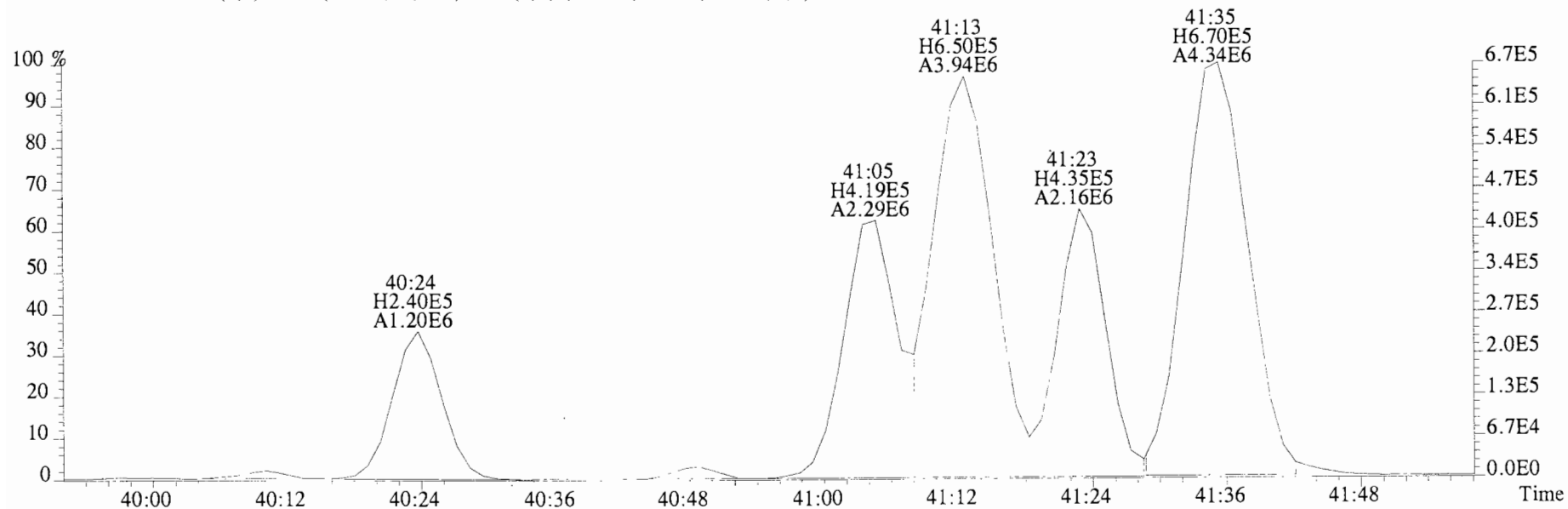
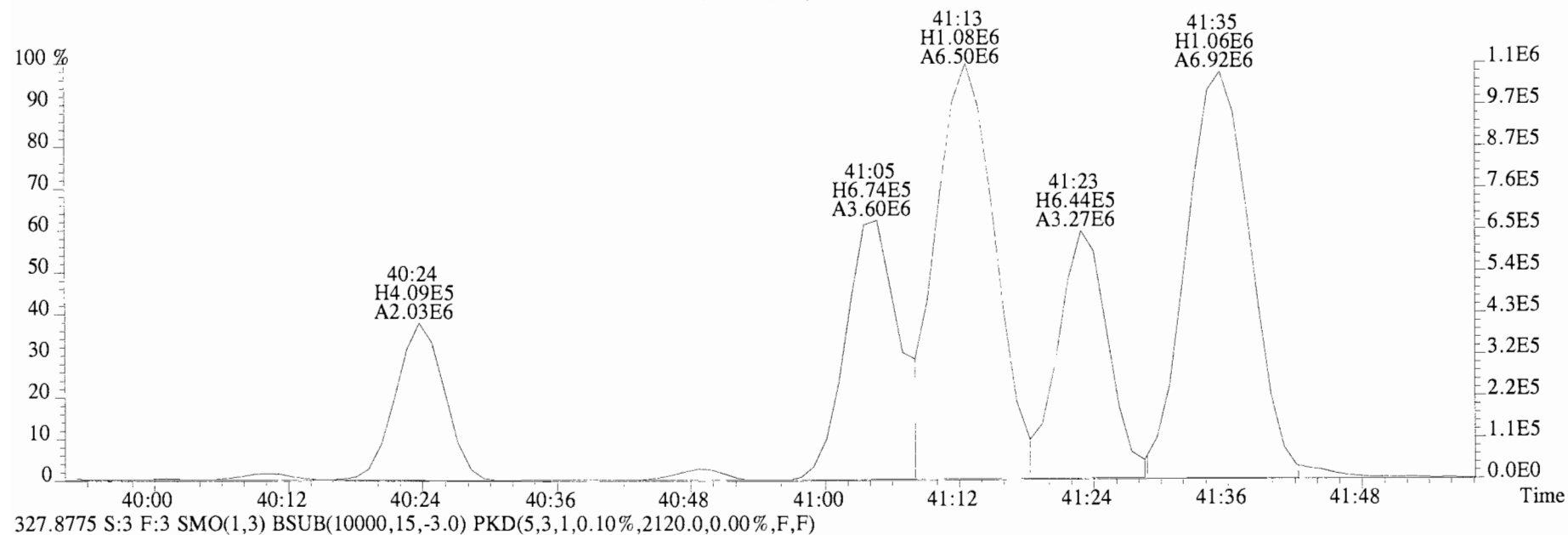
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



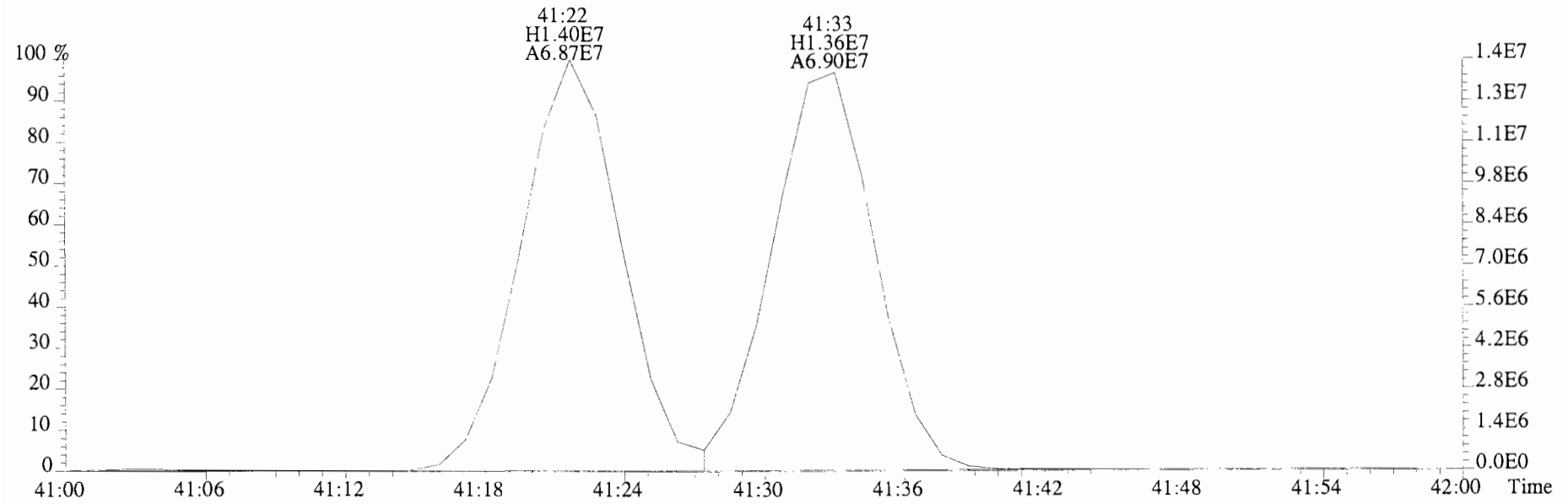
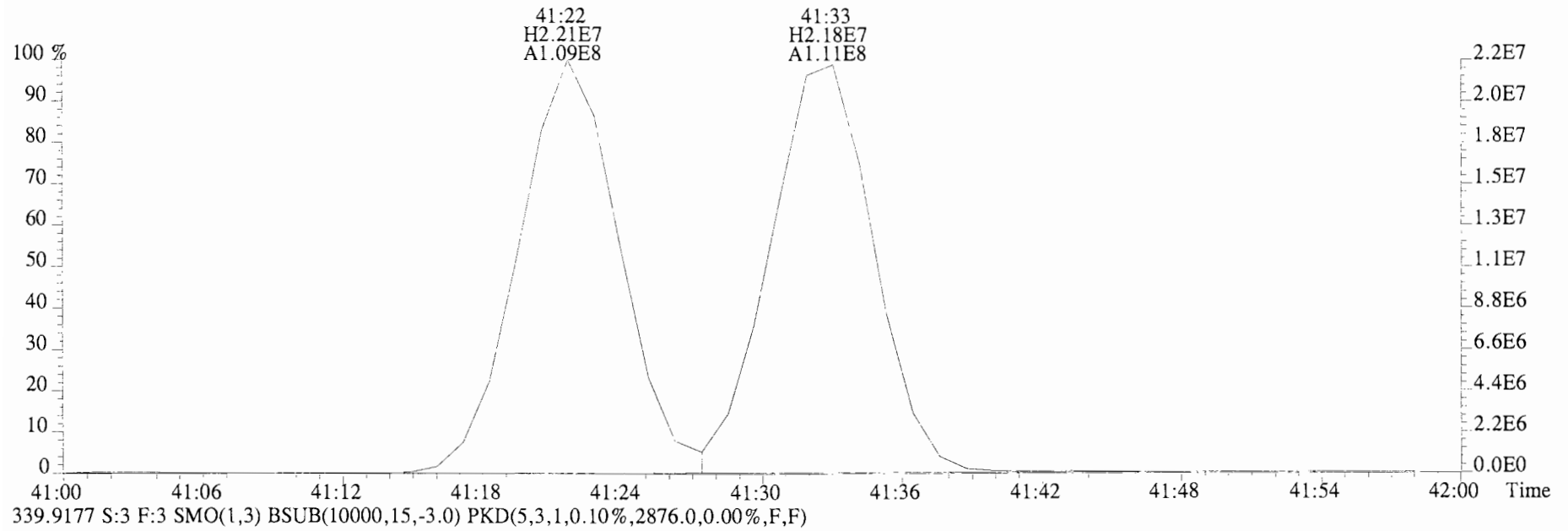
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



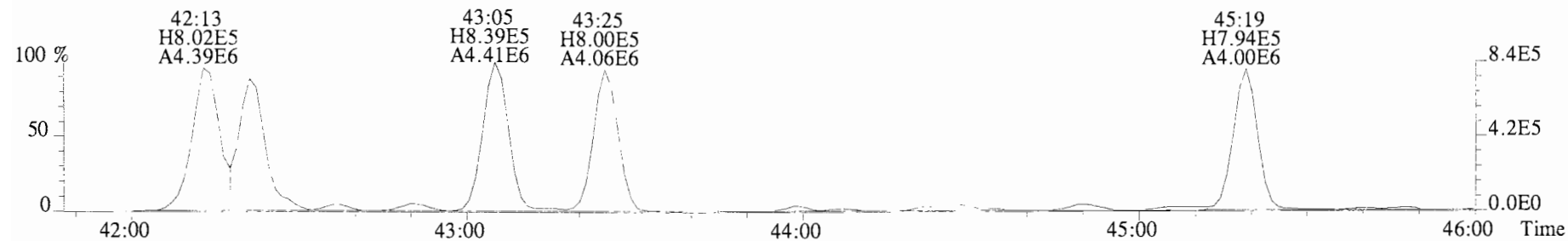
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2172.0,0.00%,F,F)



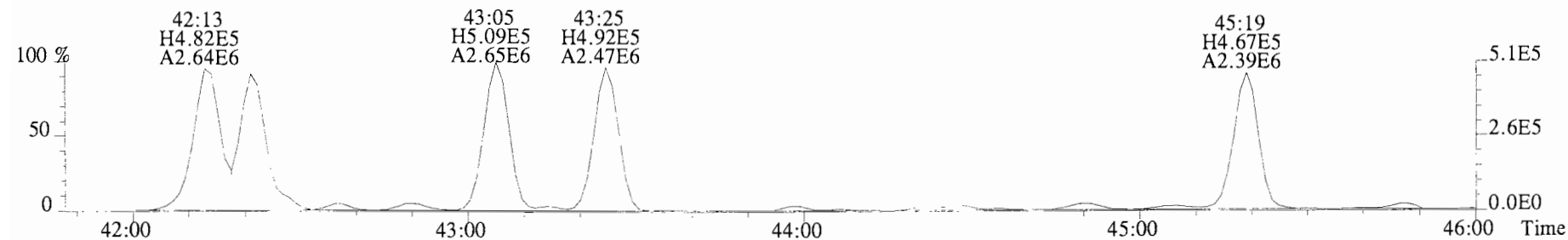
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3140.0,0.00%,F,F)



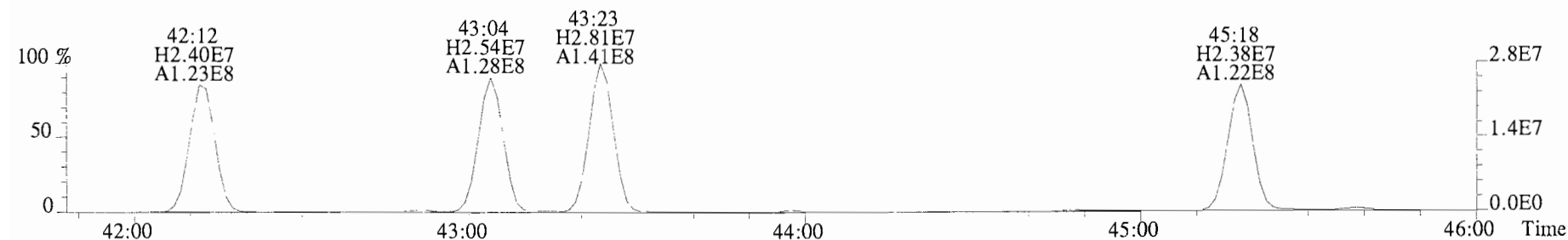
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3236.0,0.00%,F,F)



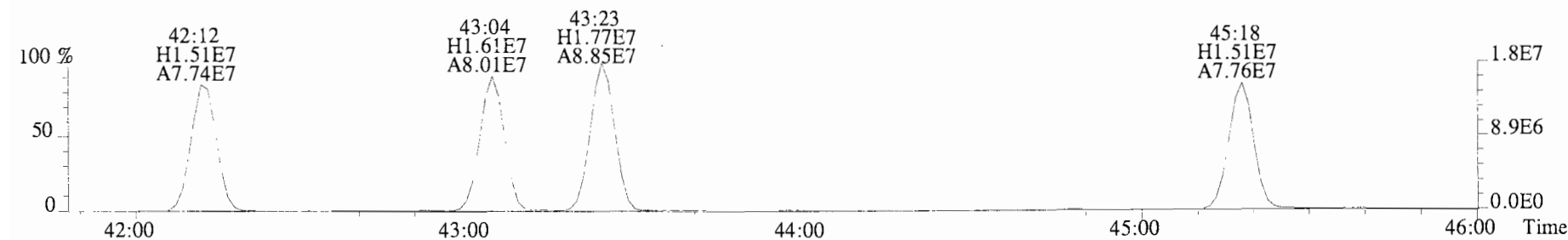
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3204.0,0.00%,F,F)



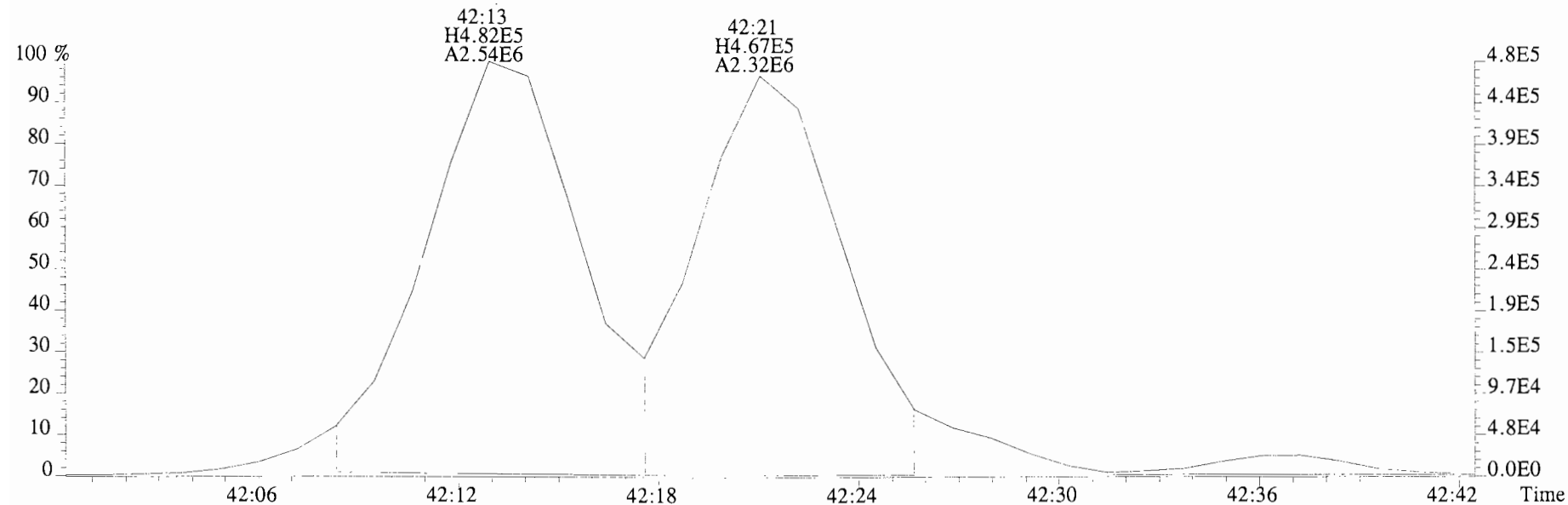
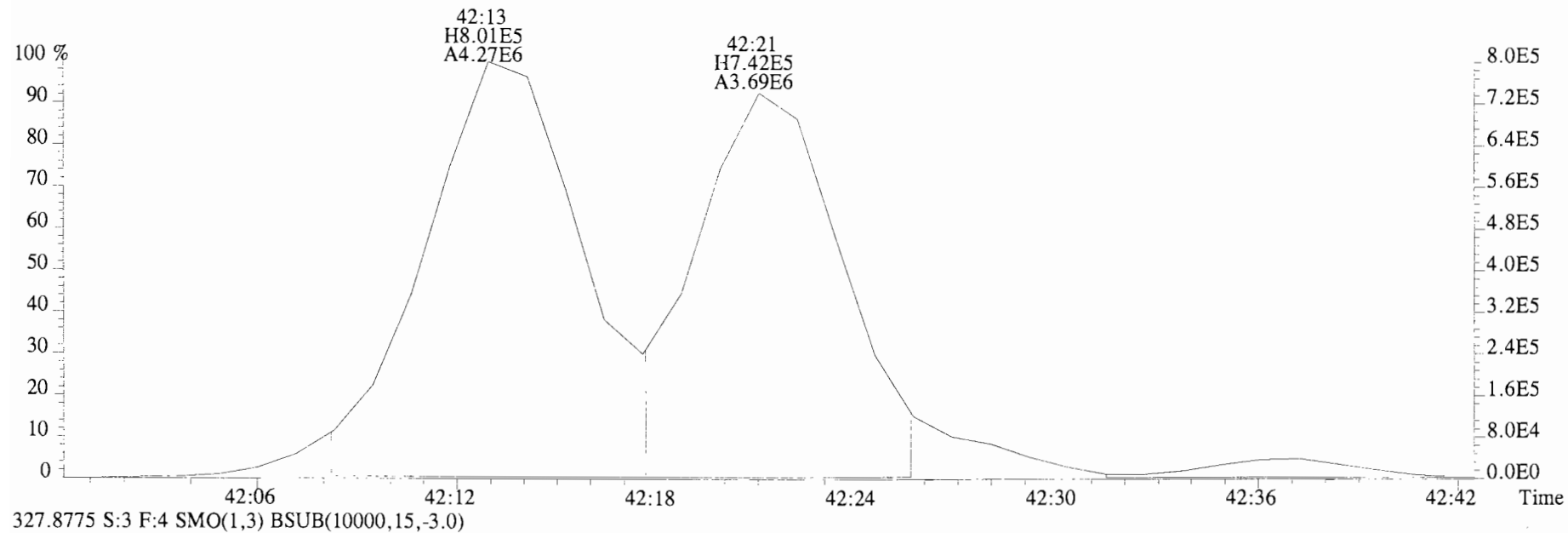
337.9207 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,13308.0,0.00%,F,F)



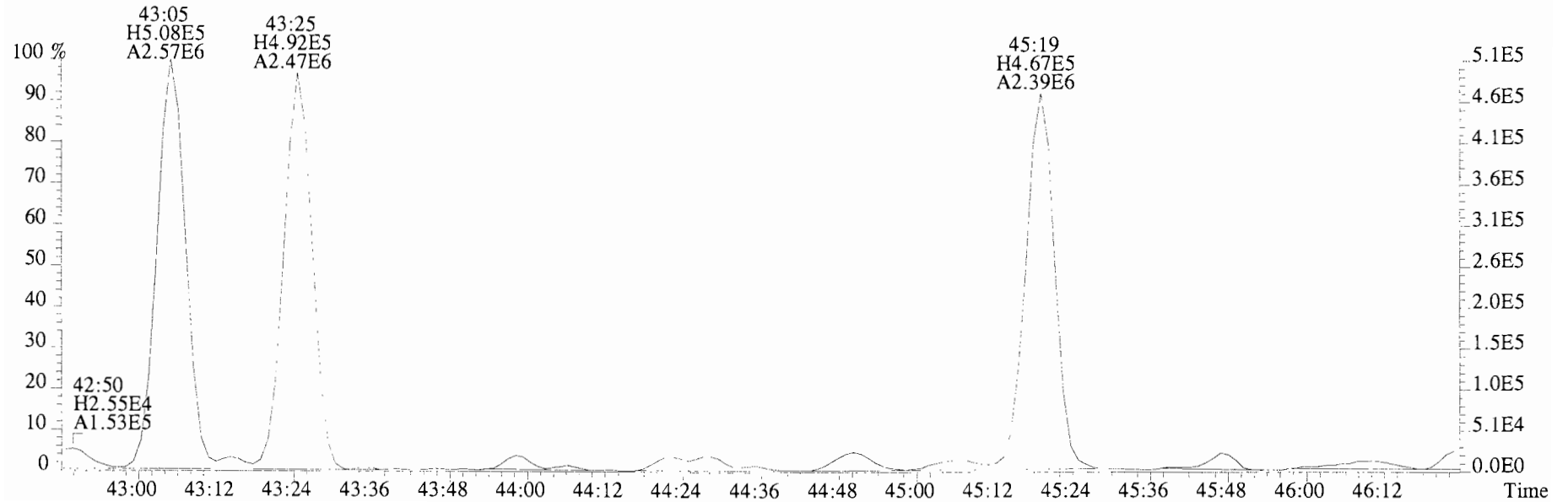
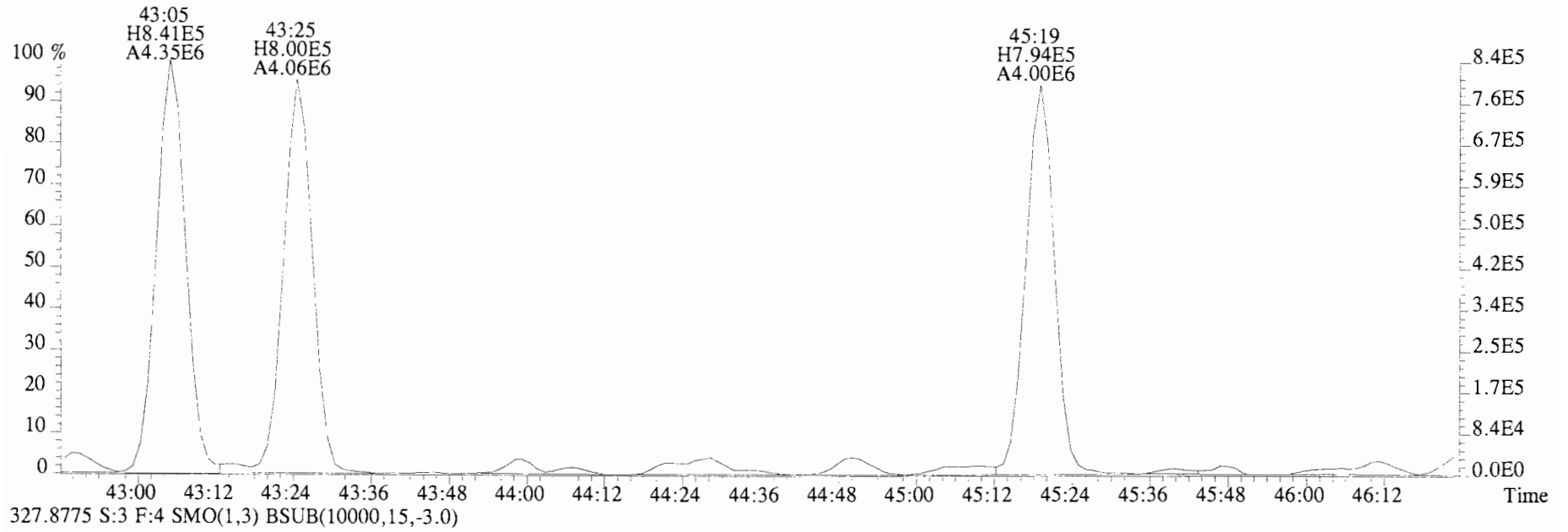
339.9177 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,13784.0,0.00%,F,F)



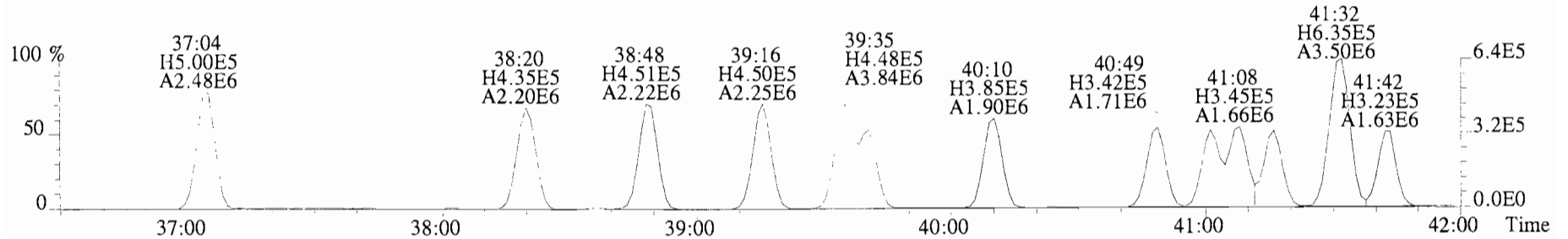
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



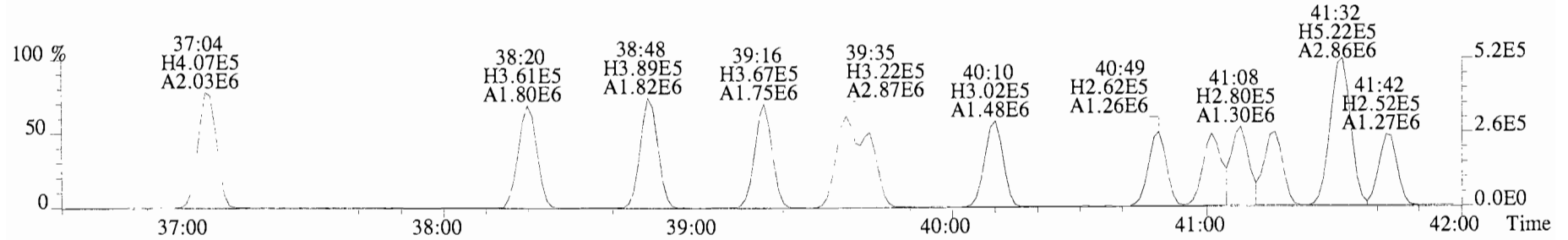
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



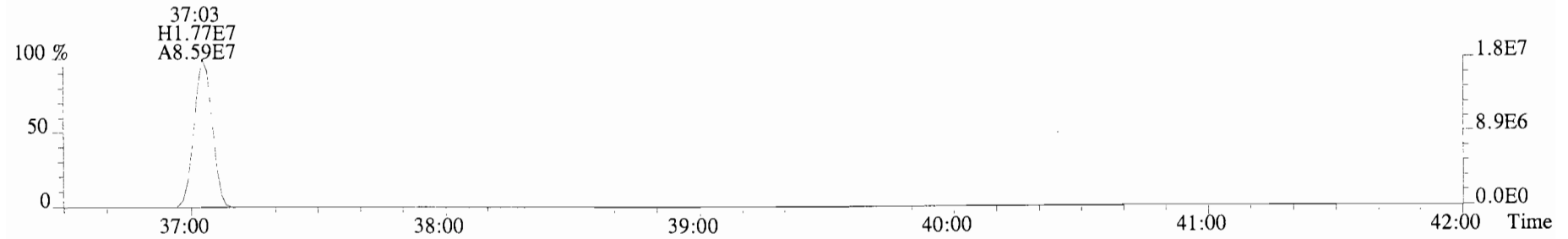
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
 359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1348.0,0.00%,F,F)



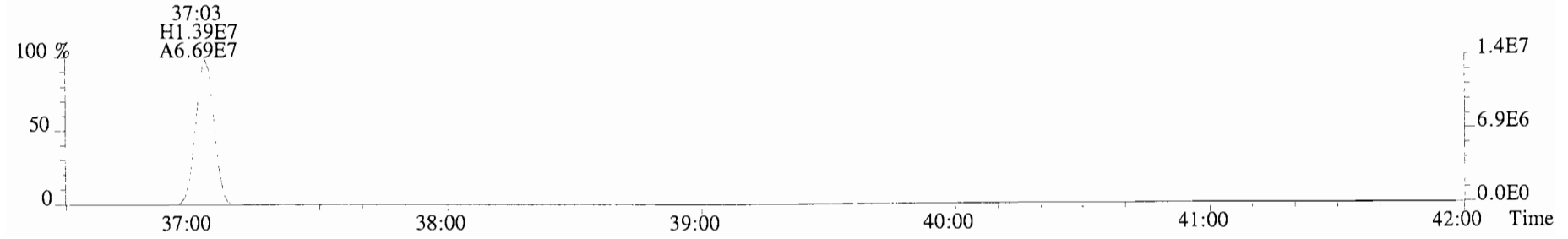
361.8385 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1348.0,0.00%,F,F)



371.8817 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1612.0,0.00%,F,F)

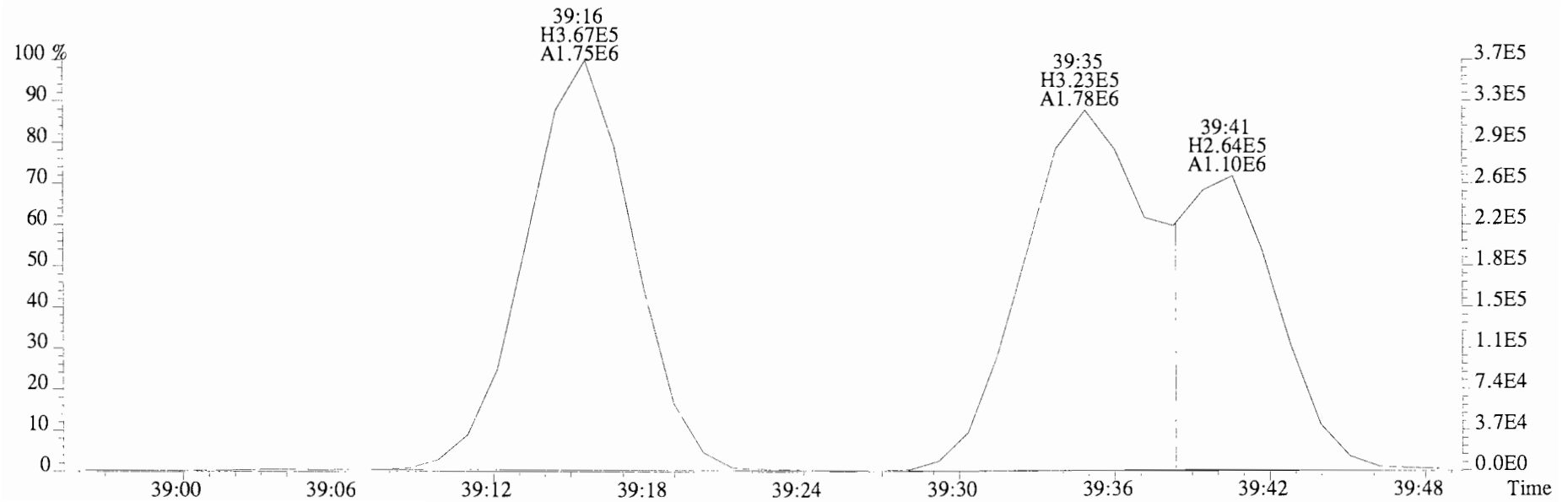
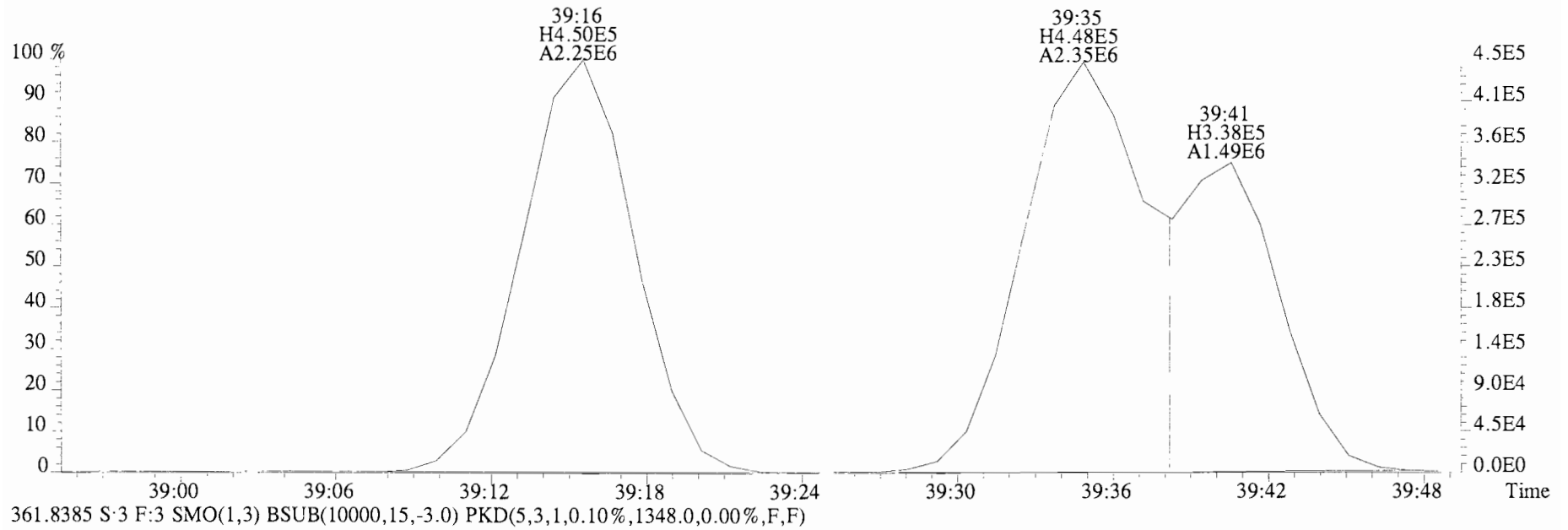


373.8788 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1700.0,0.00%,F,F)

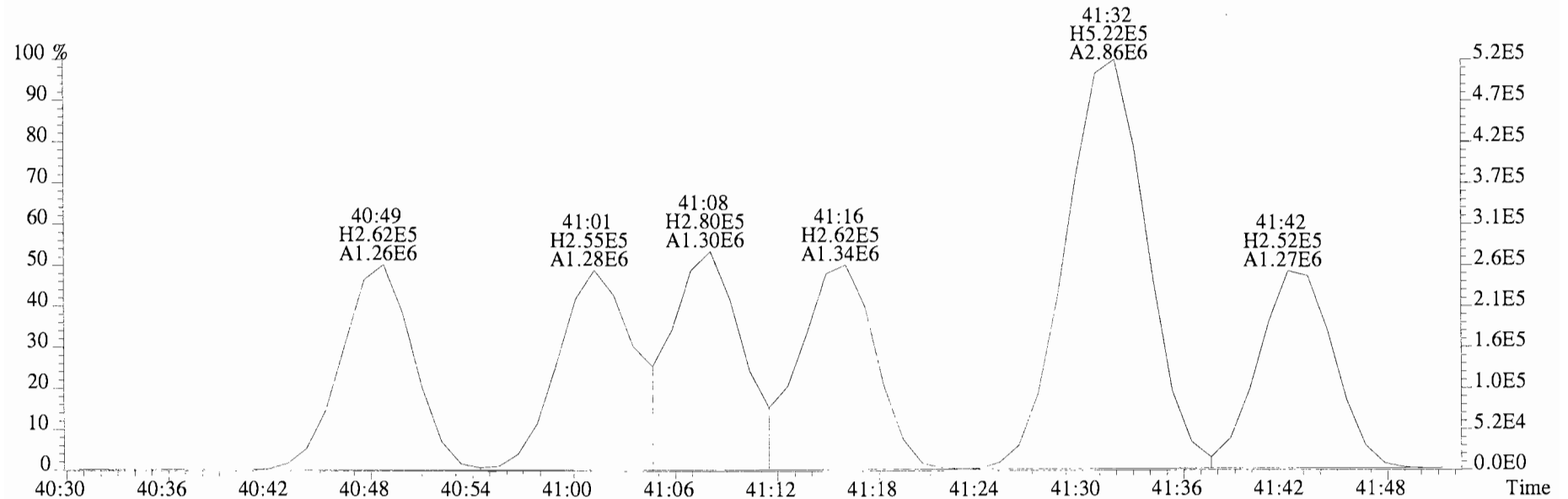
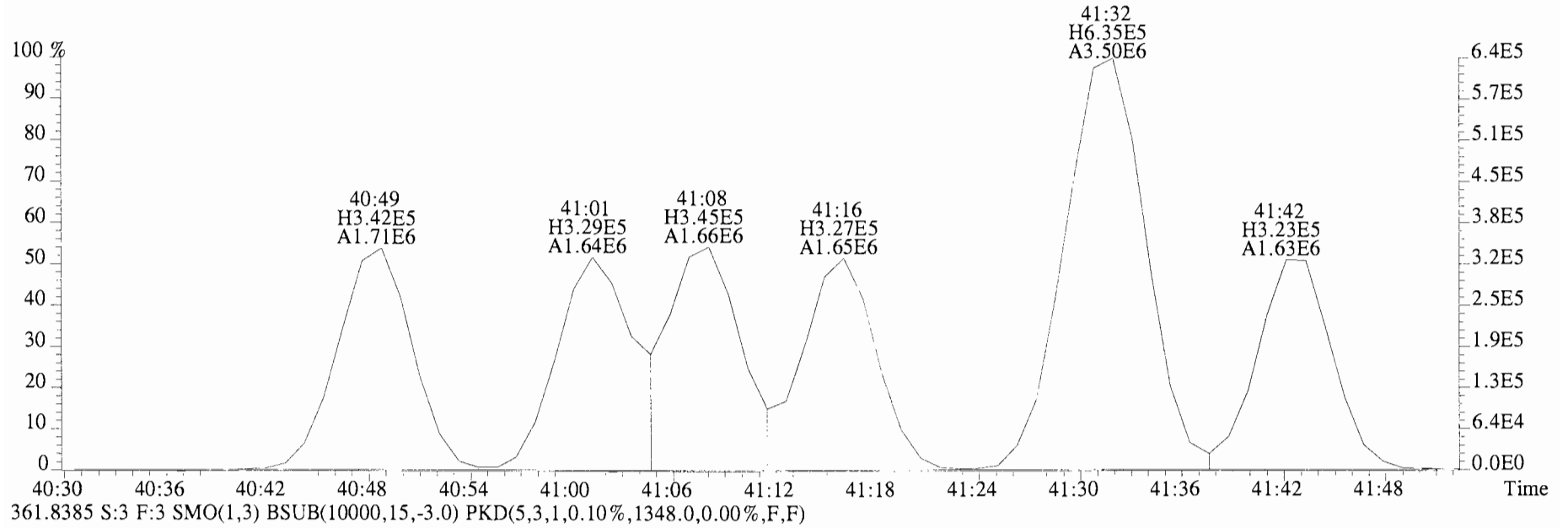




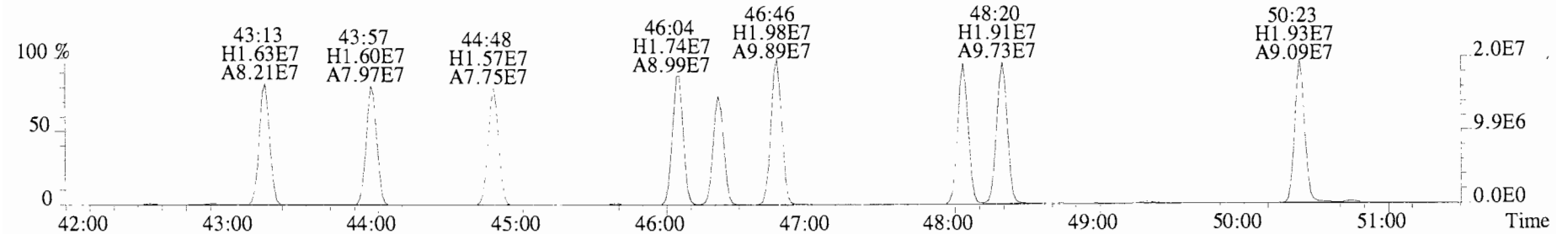
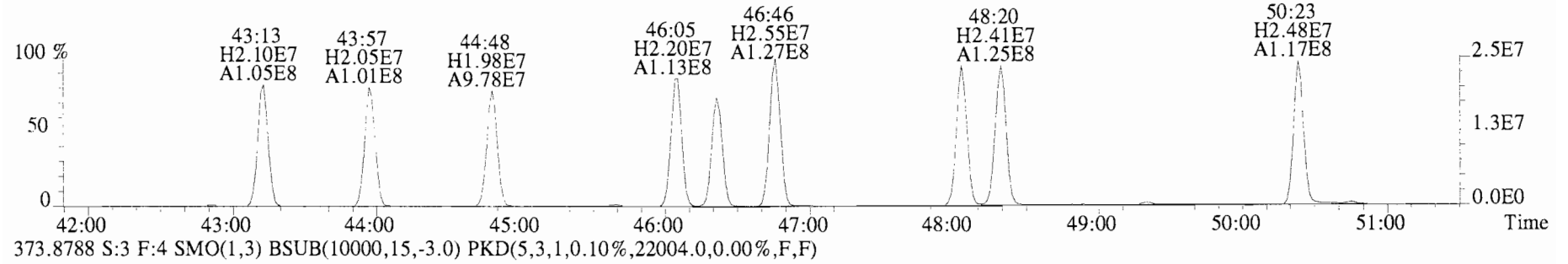
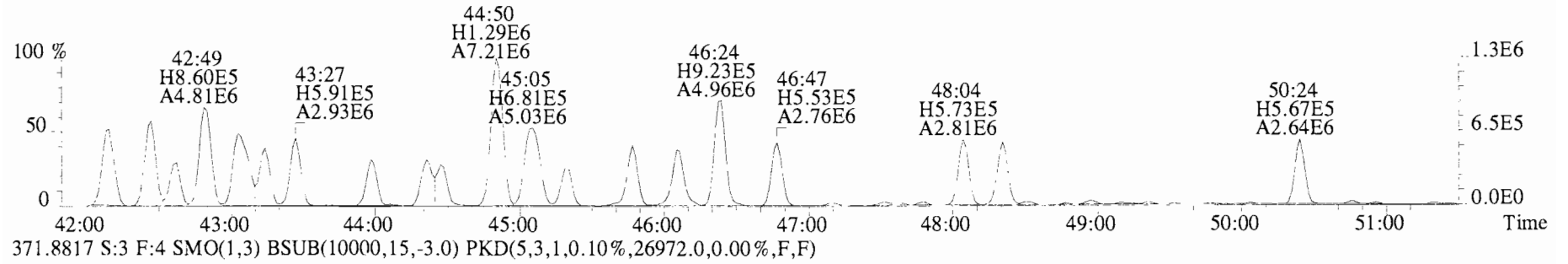
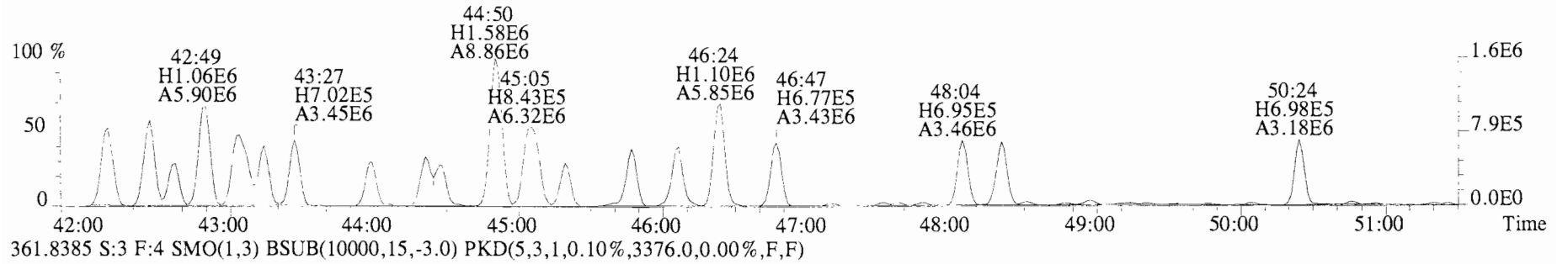
File:140620E1 #1-767 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1348.0,0.00%,F,F)



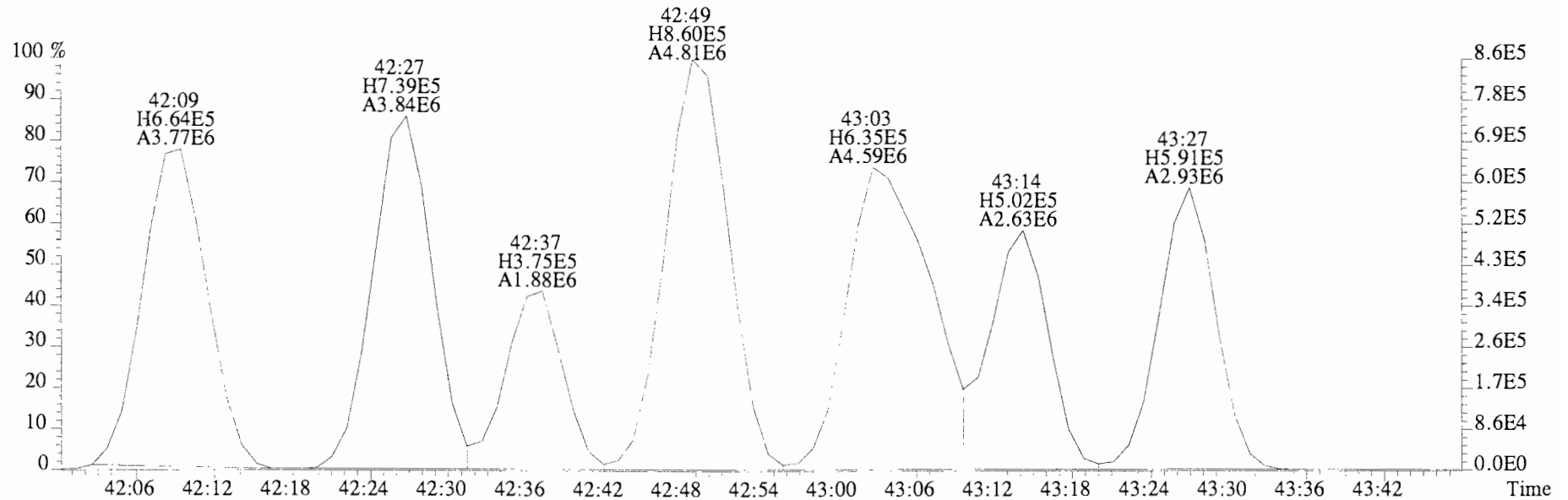
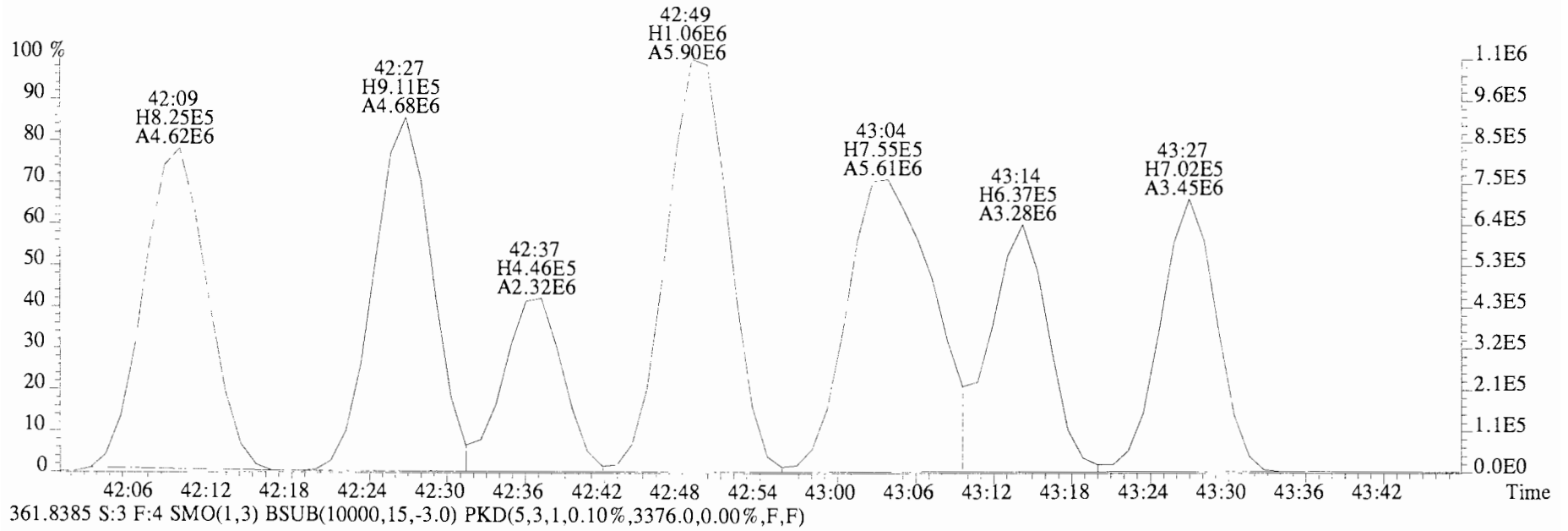
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1348.0,0.00%,F,F)



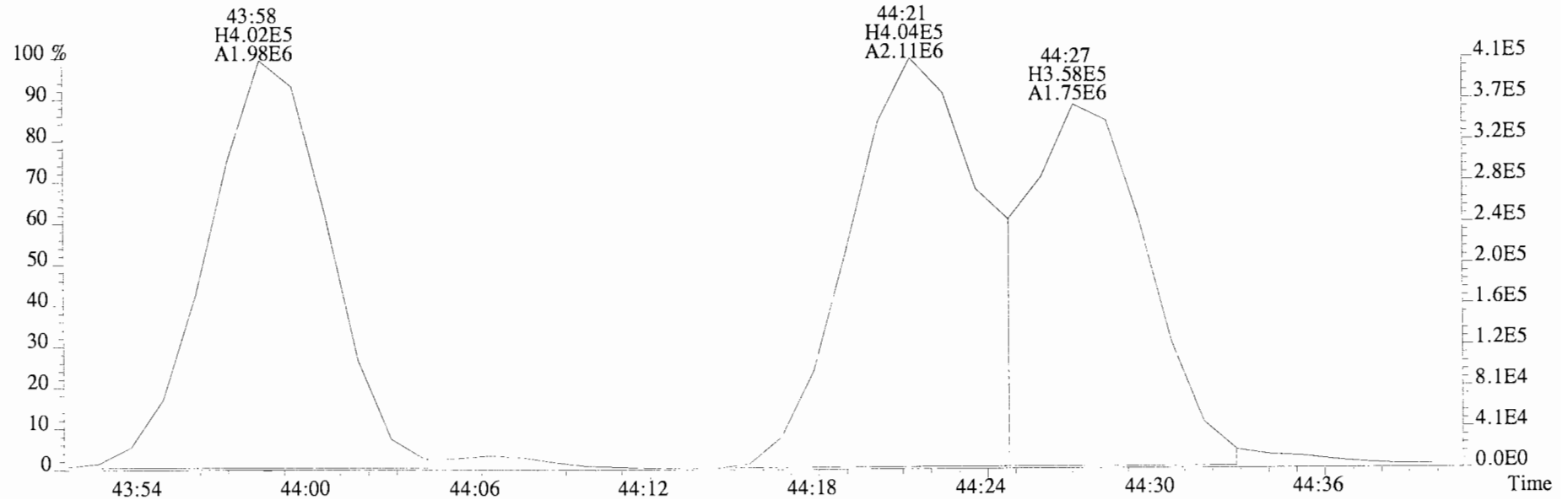
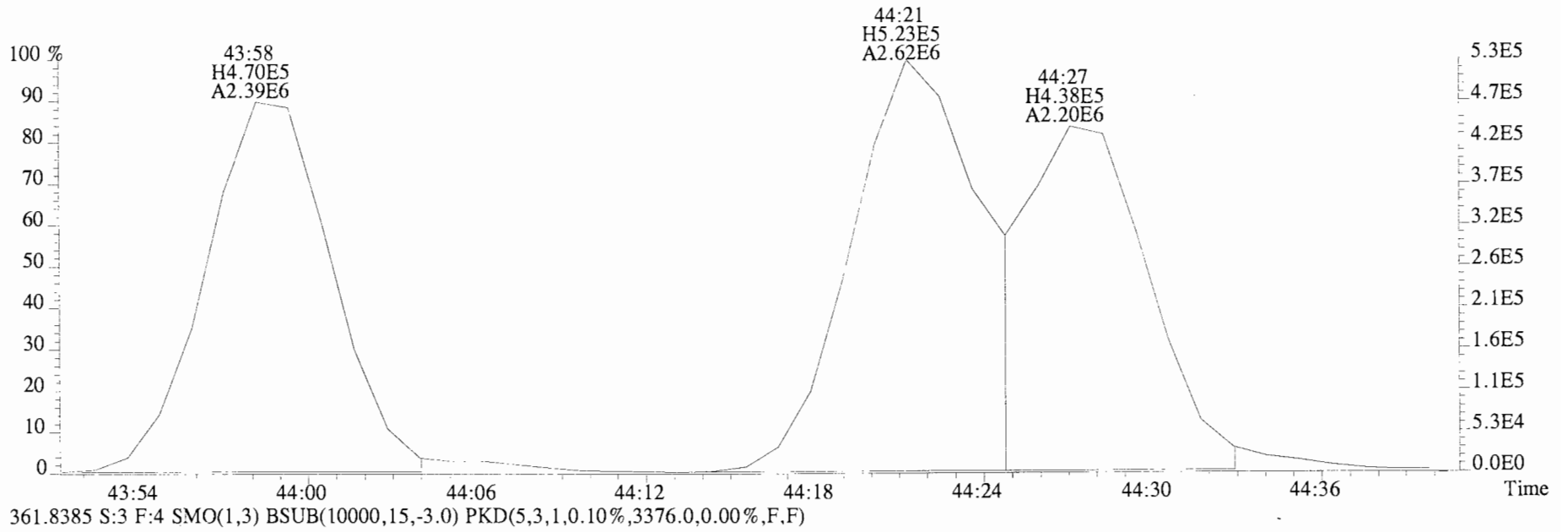
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4680.0,0.00%,F,F)



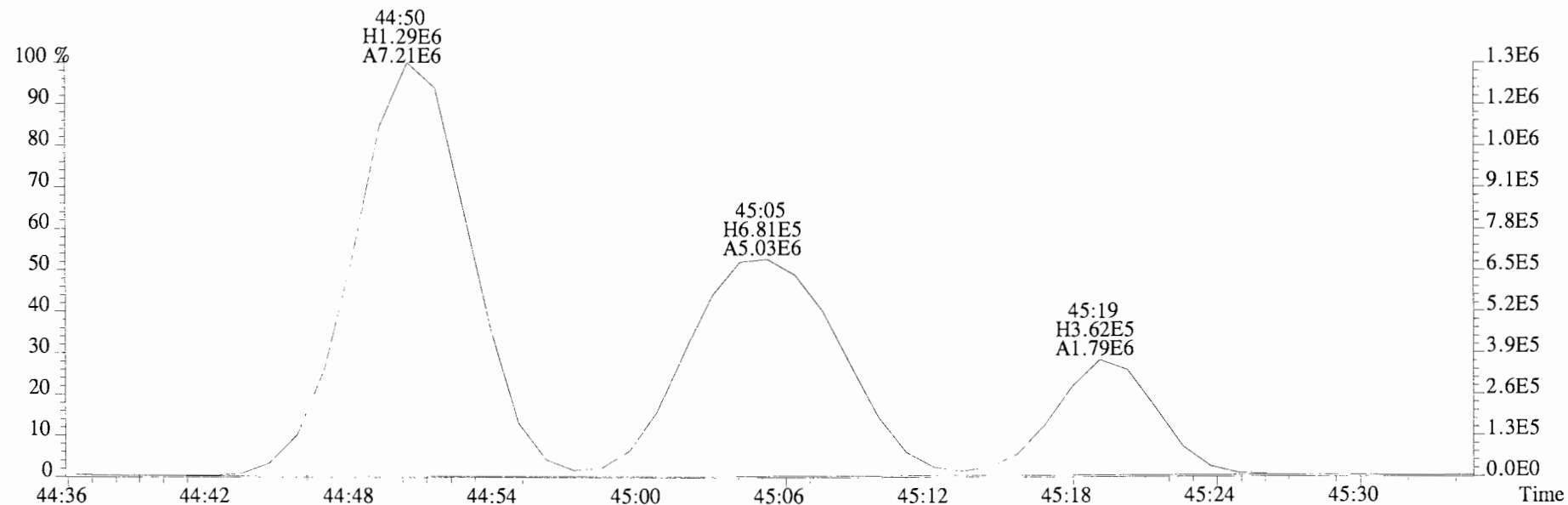
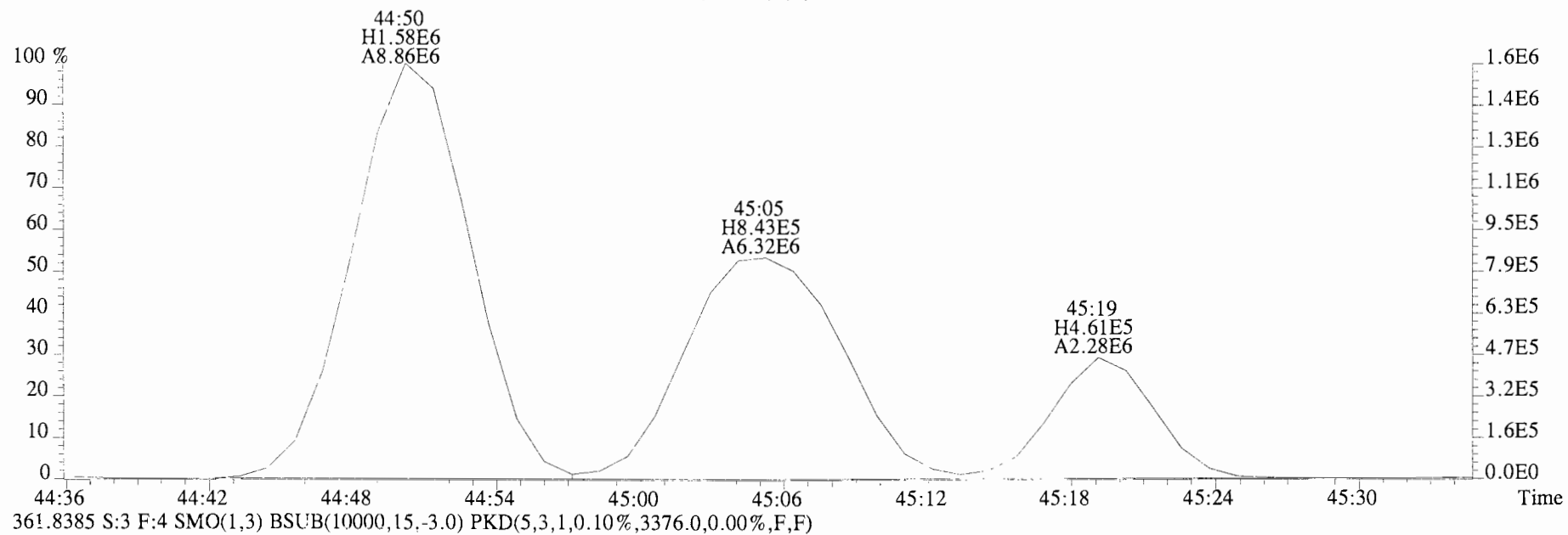
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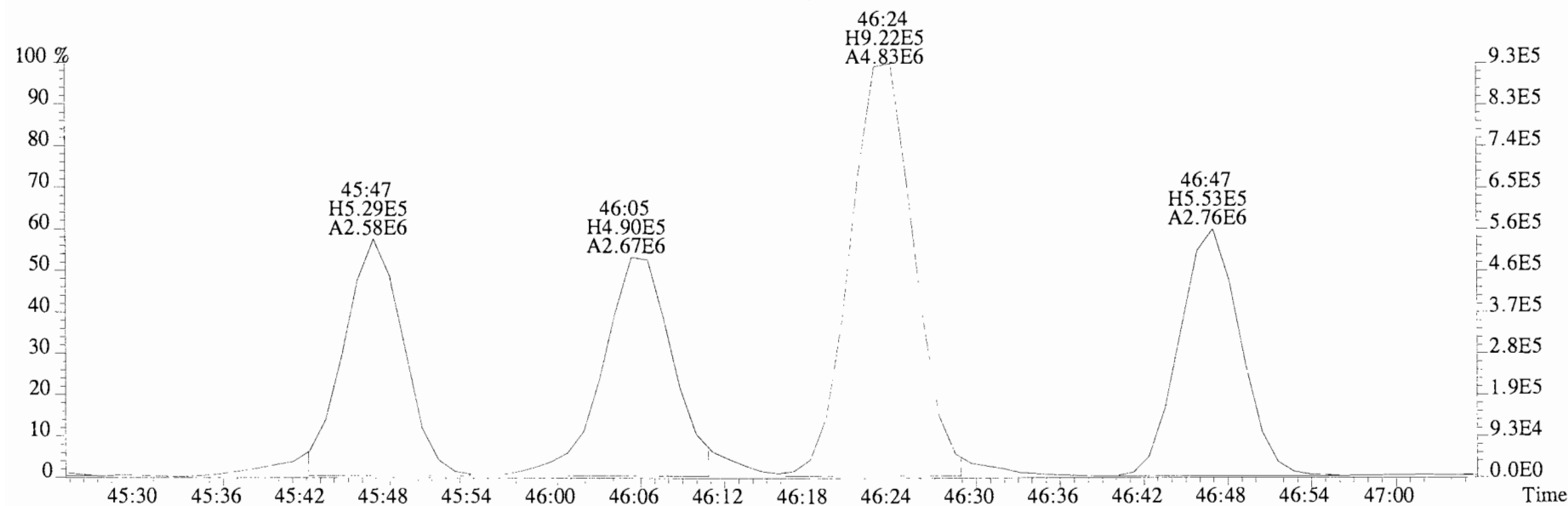
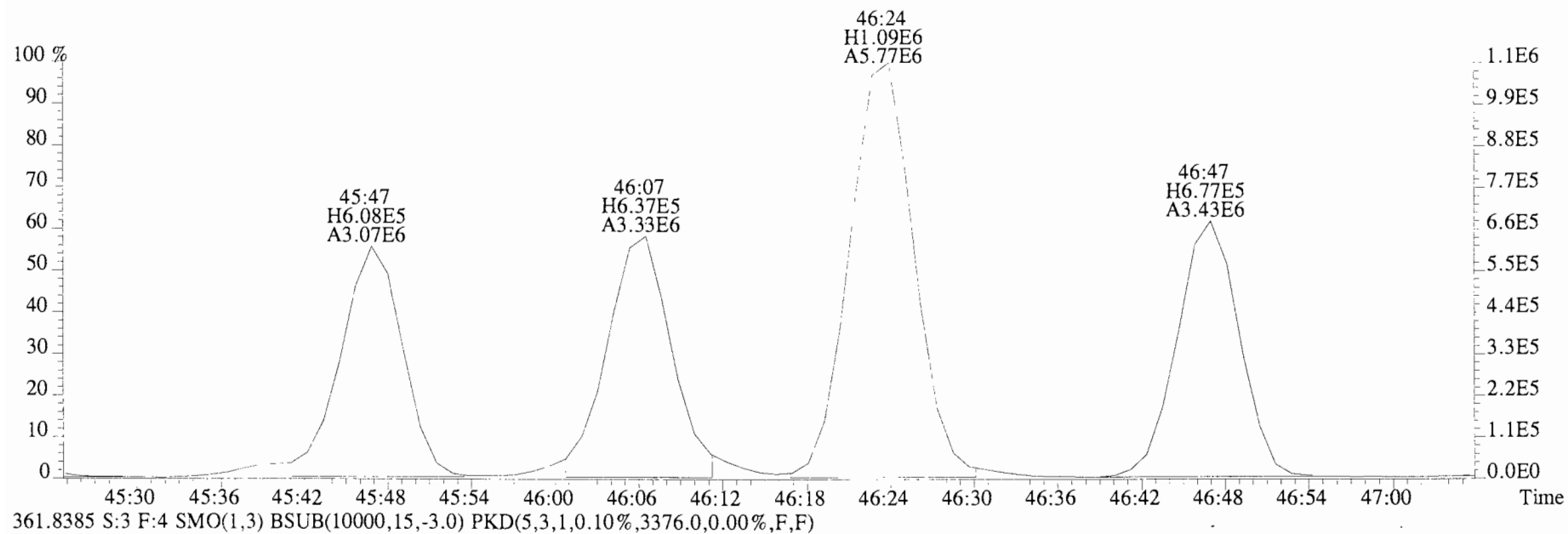
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
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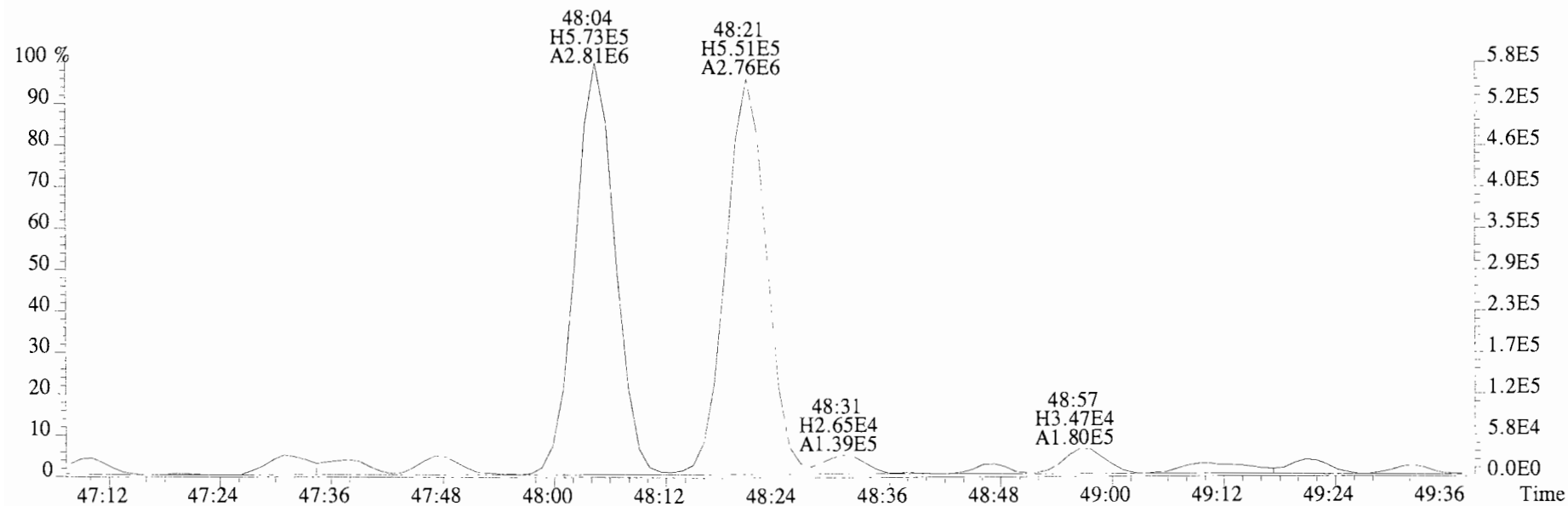
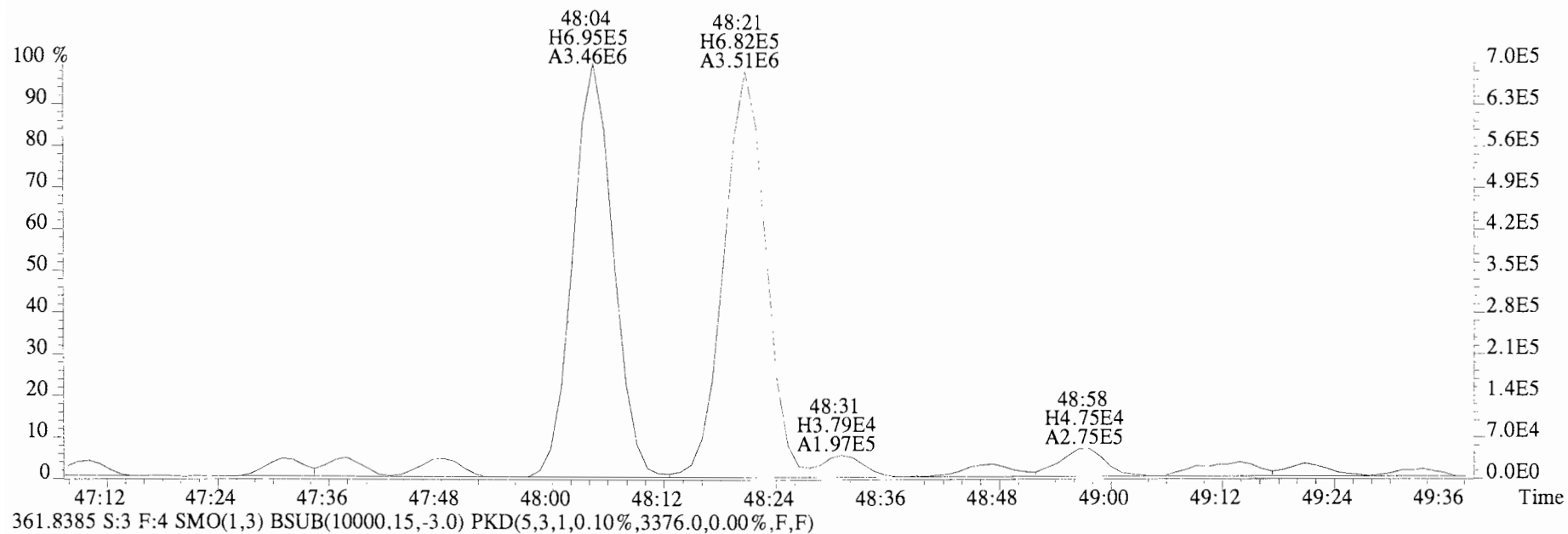
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4680.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4680.0,0.00%,F,F)

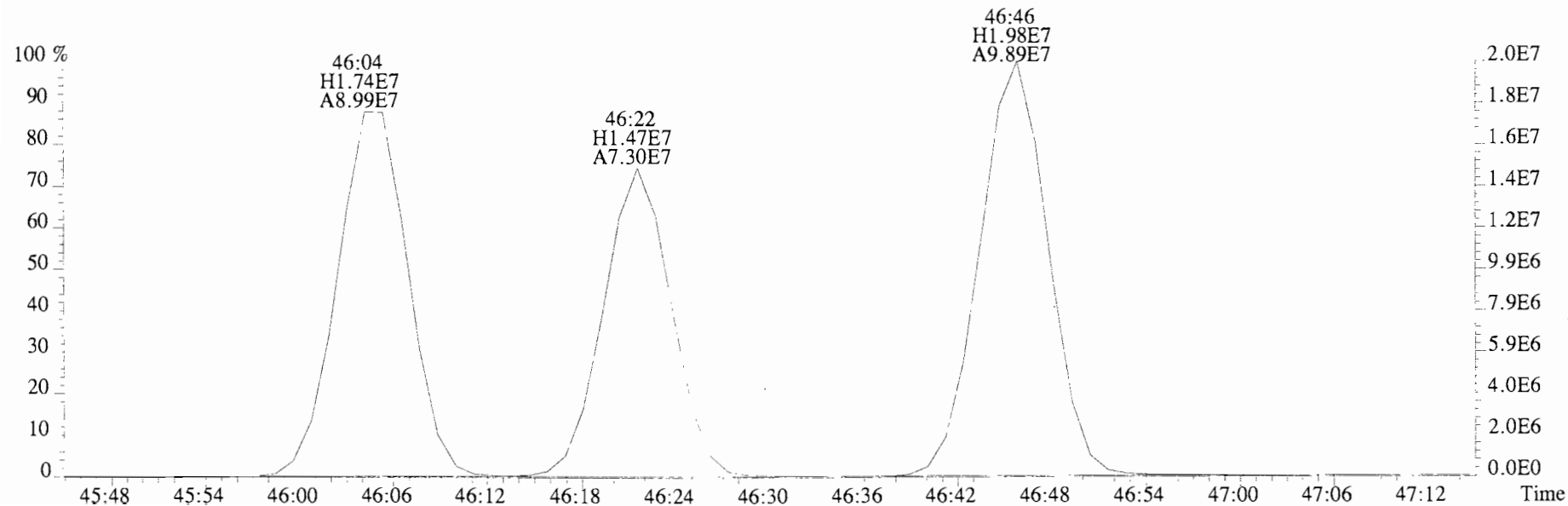
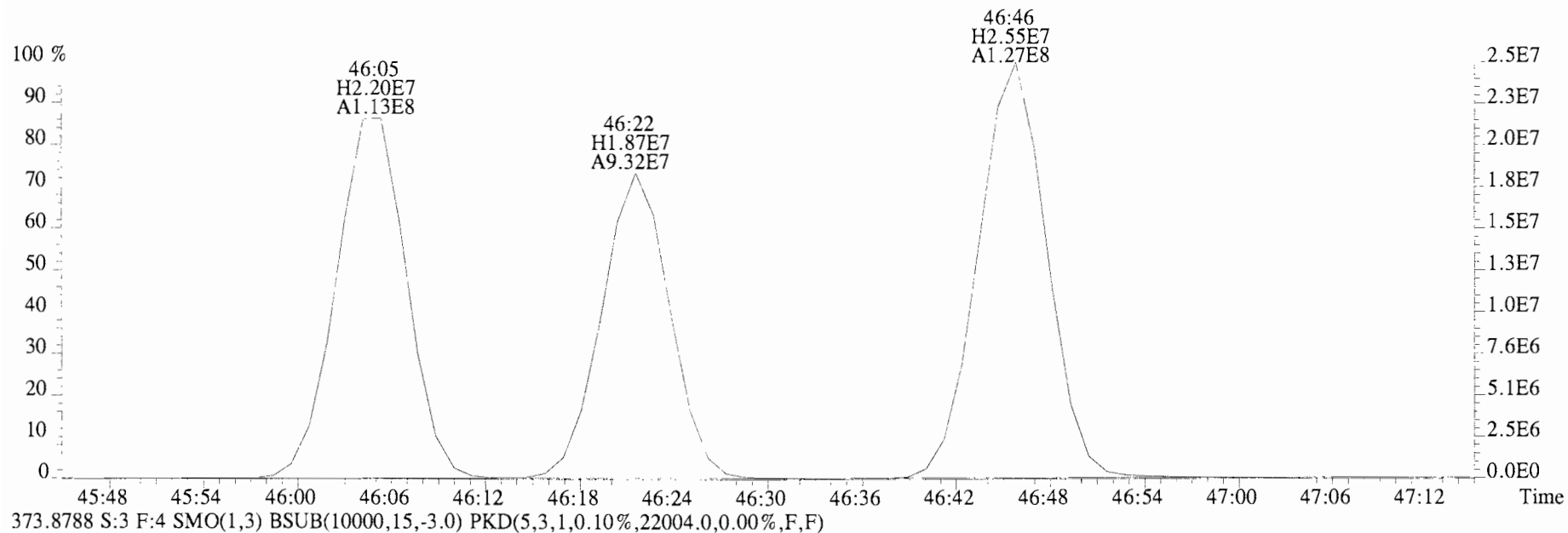


File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
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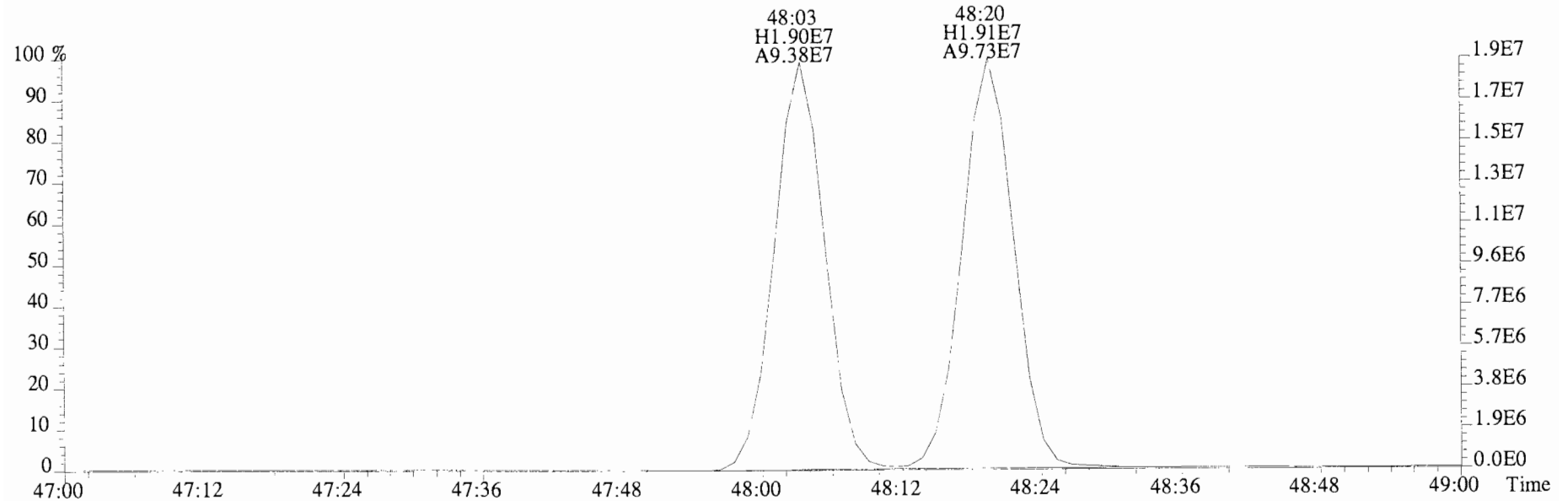
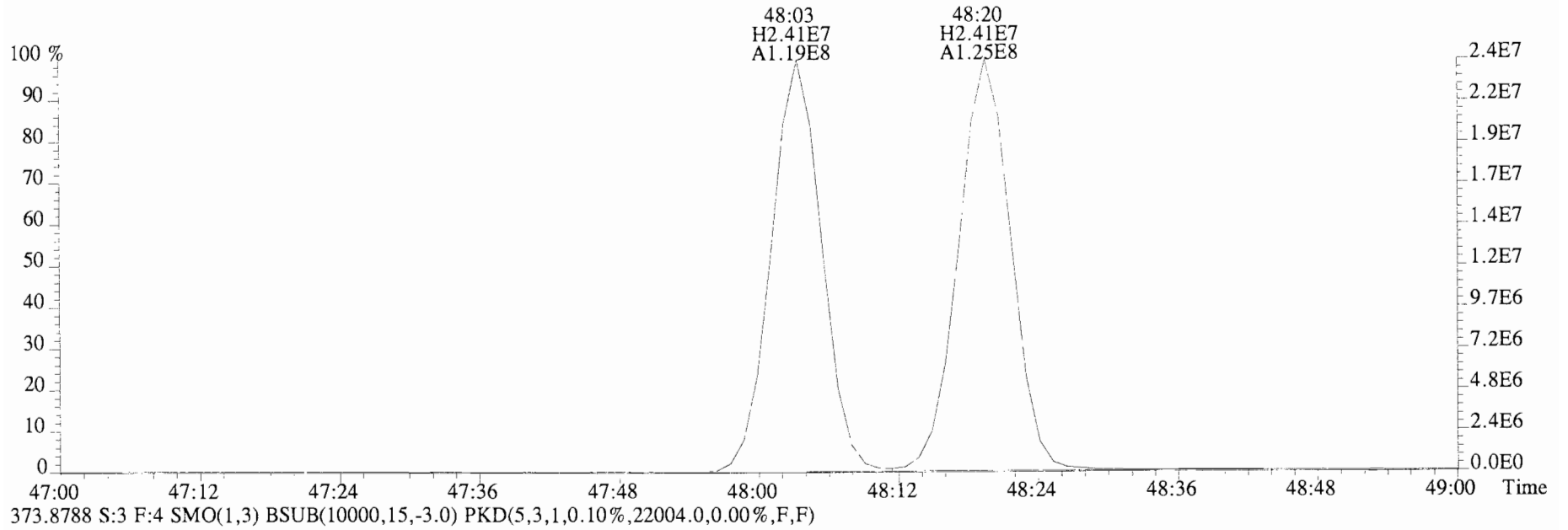




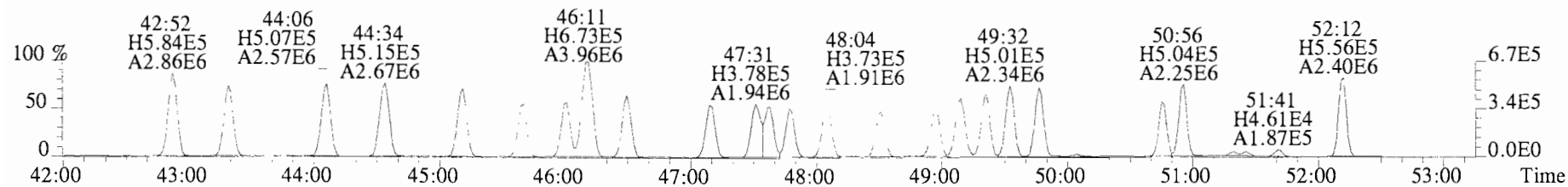
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,26972.0,0.00%,F,F)



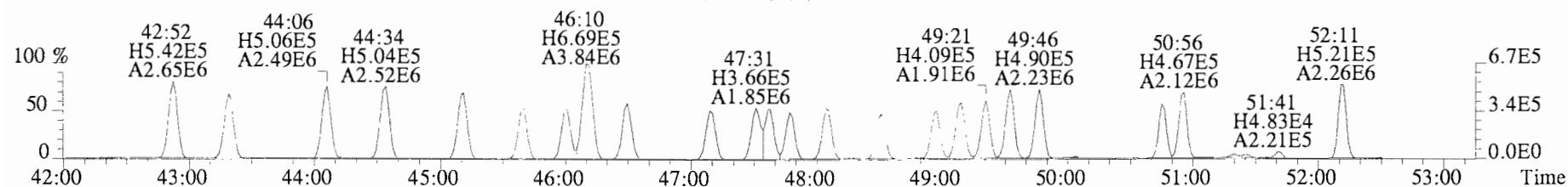
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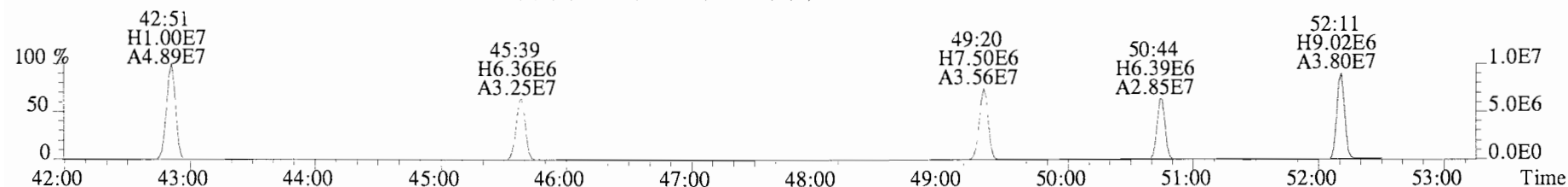
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Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2932.0,0.00%,F,F)



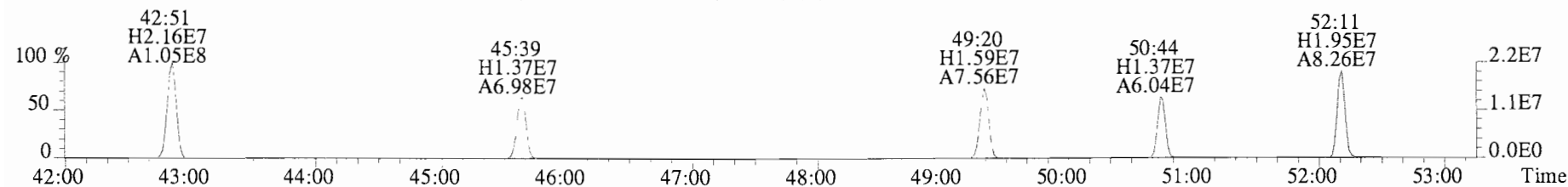
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4208.0,0.00%,F,F)



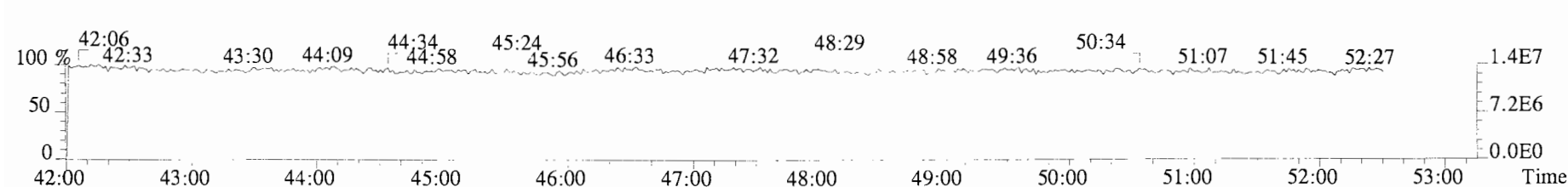
403.8457 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,8140.0,0.00%,F,F)



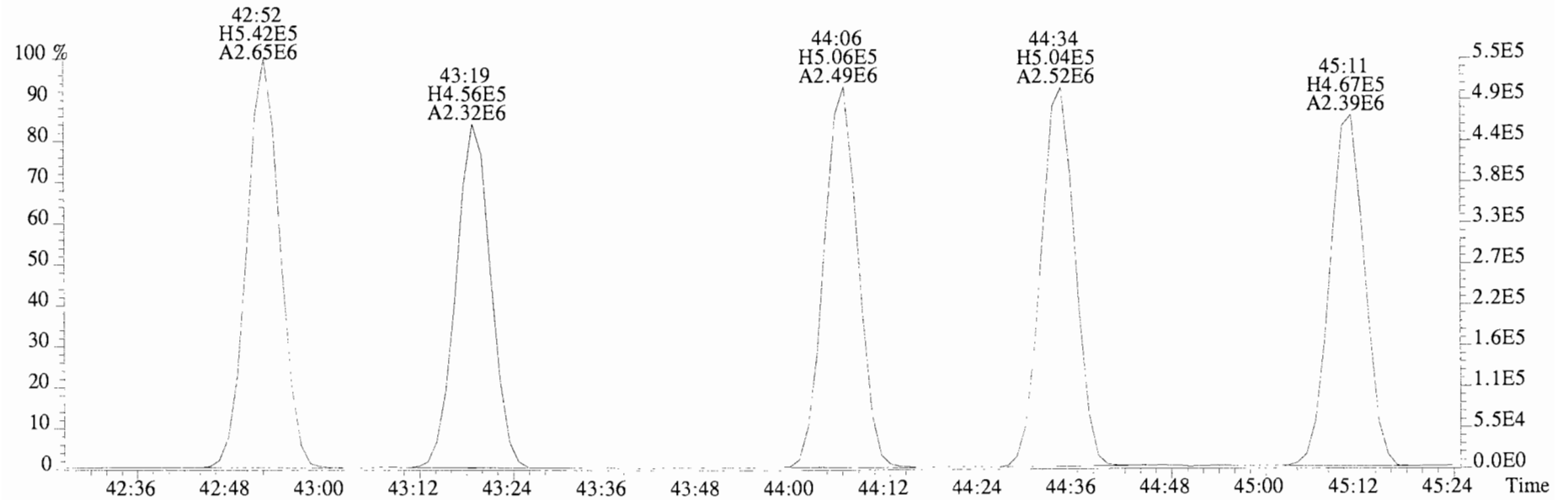
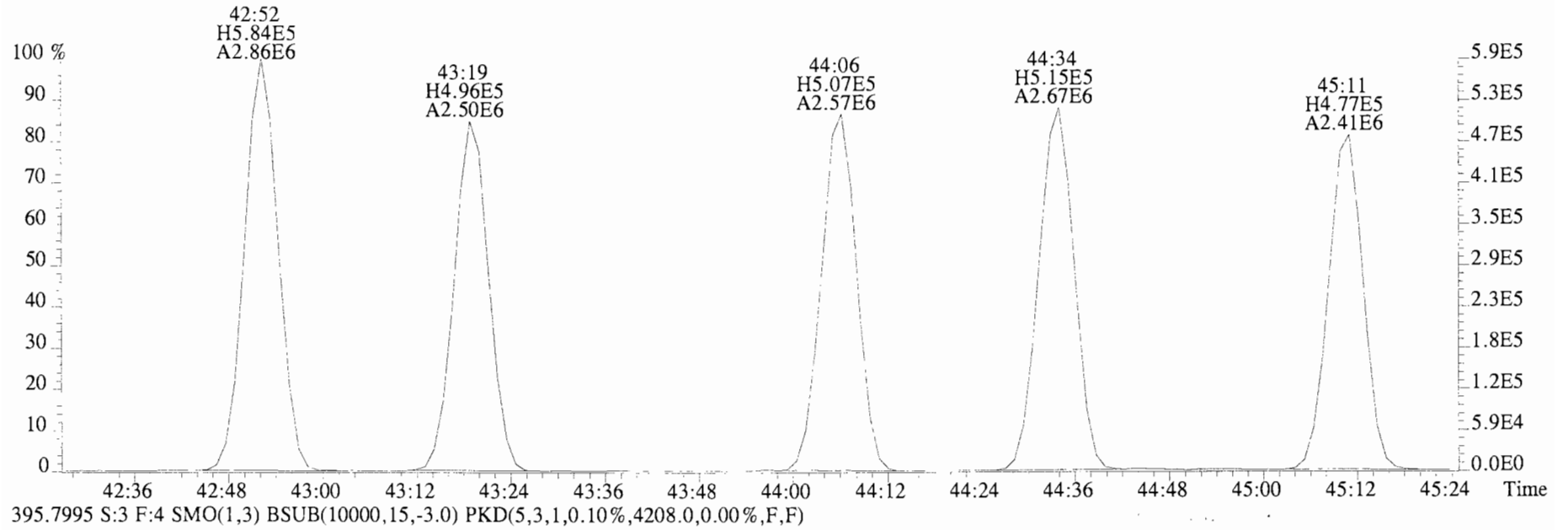
405.8428 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,16124.0,0.00%,F,F)



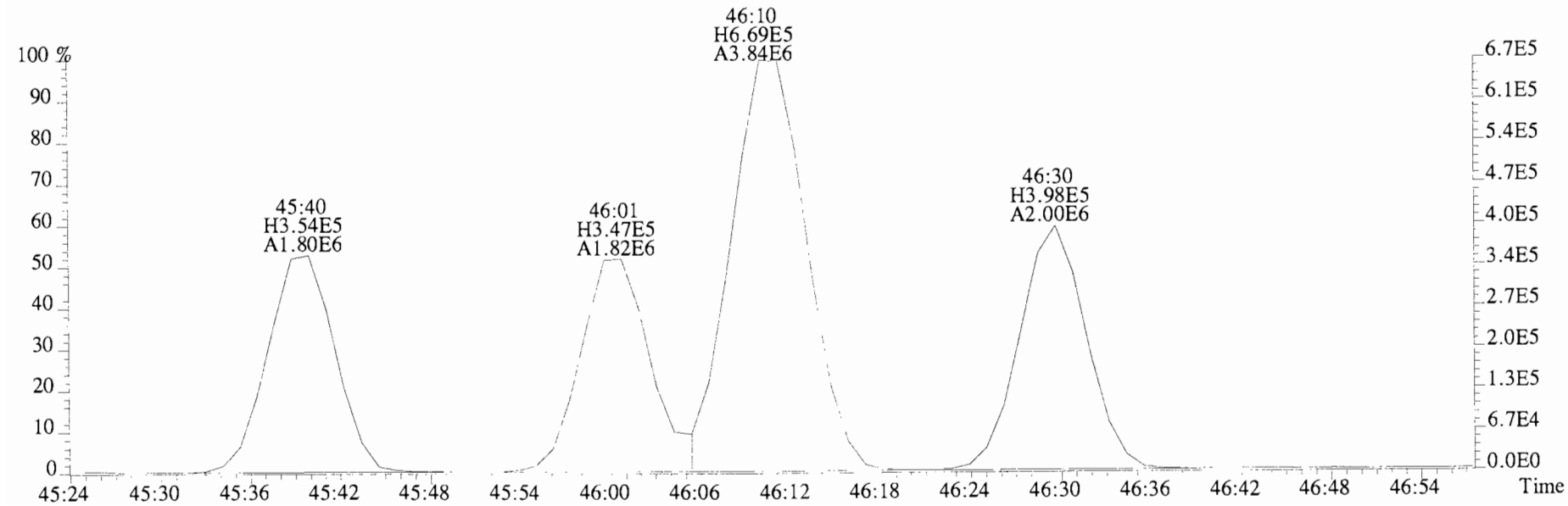
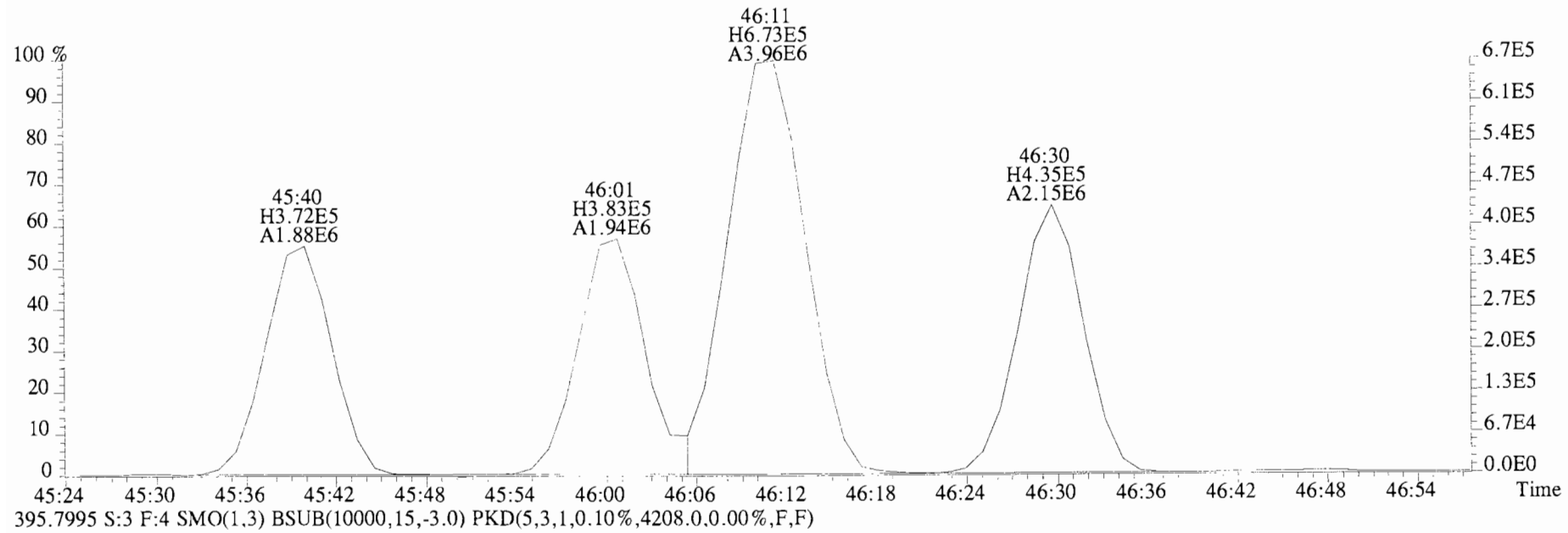
380.9760 S:3 F:4



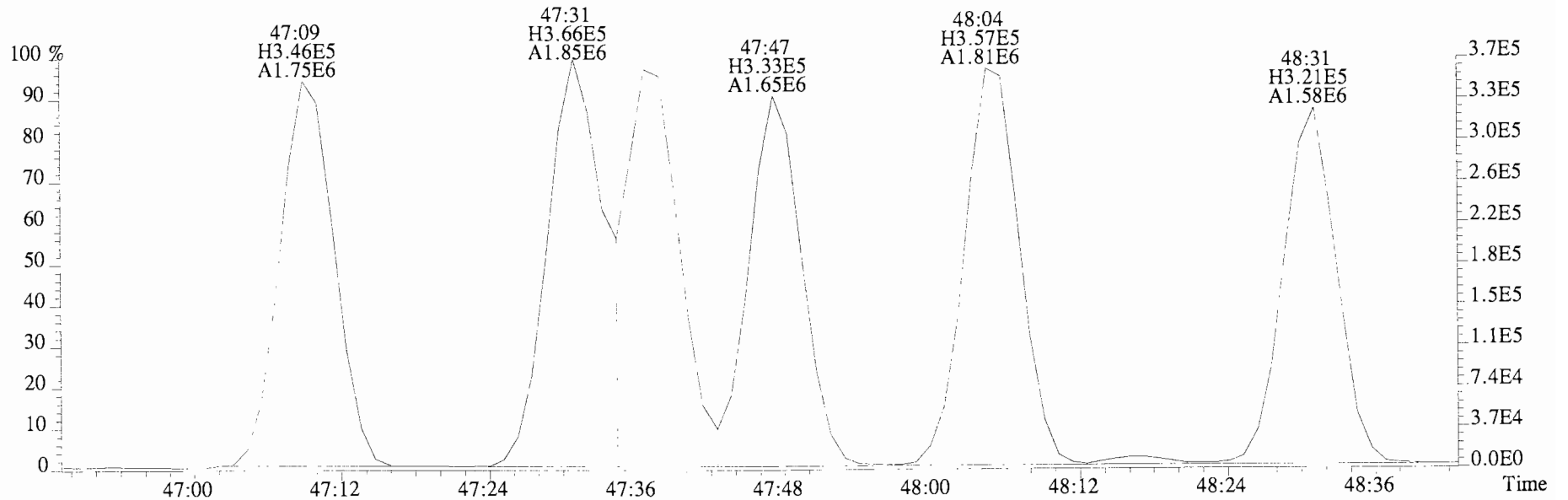
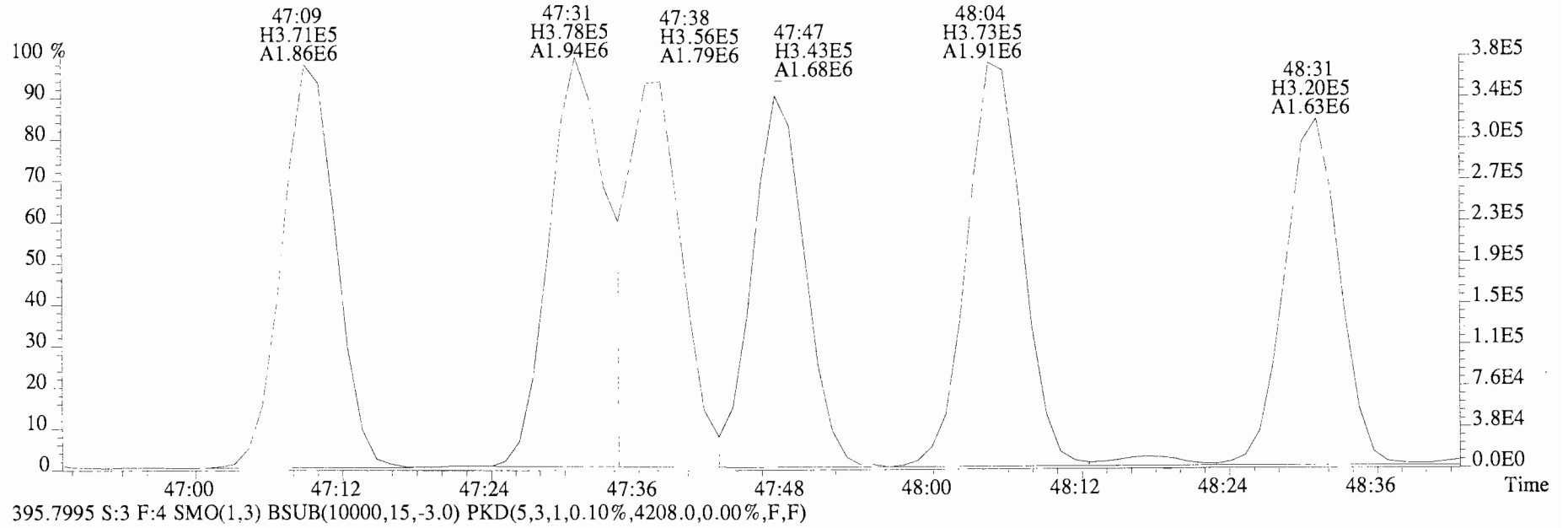
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2932.0,0.00%,F,F)



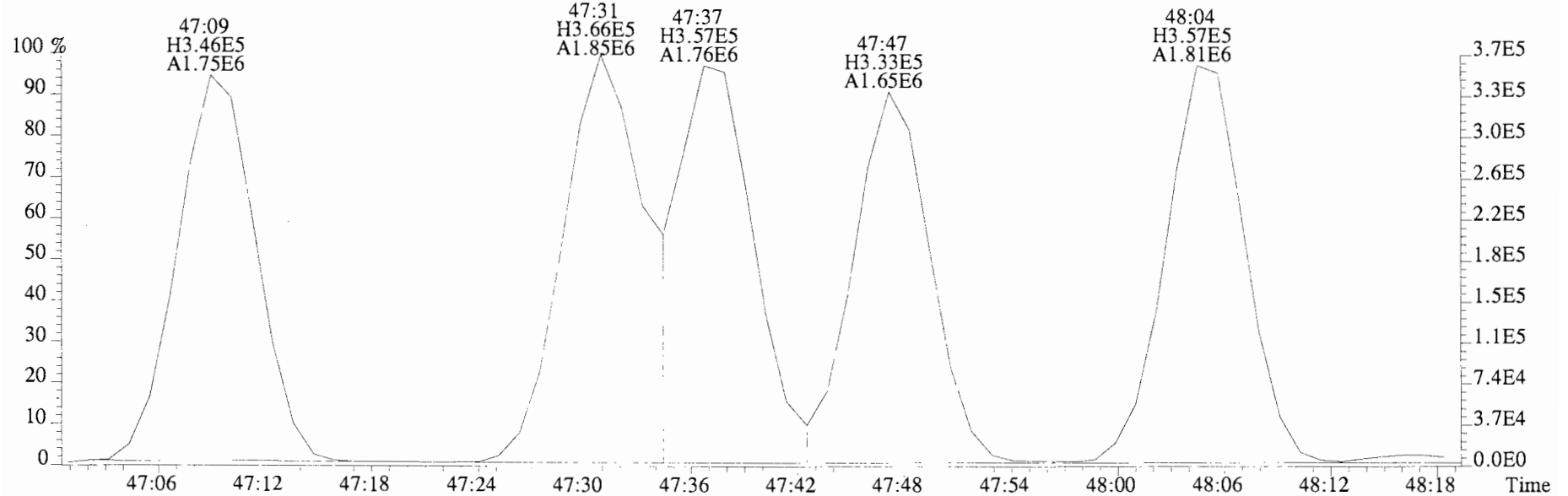
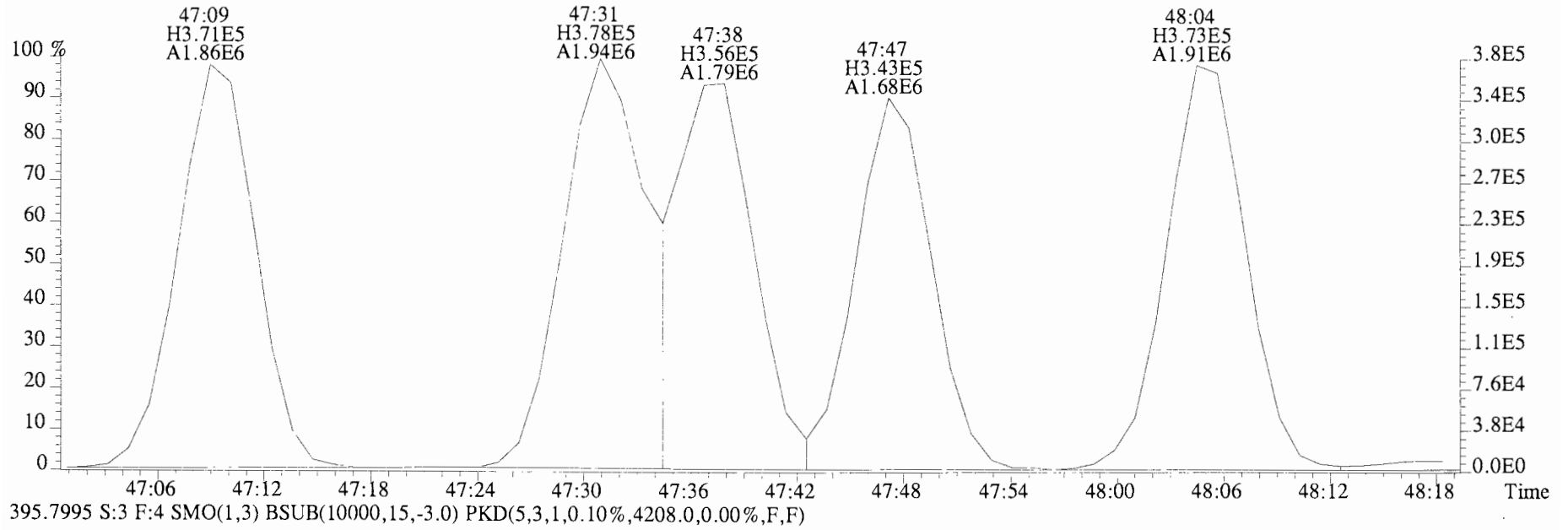
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
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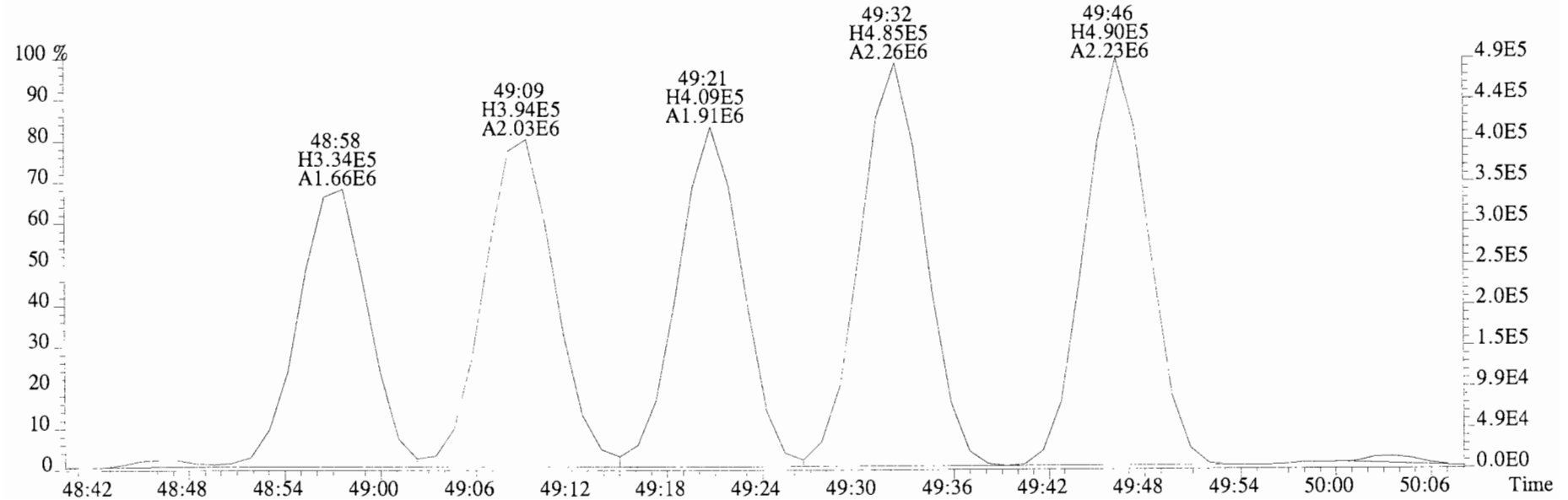
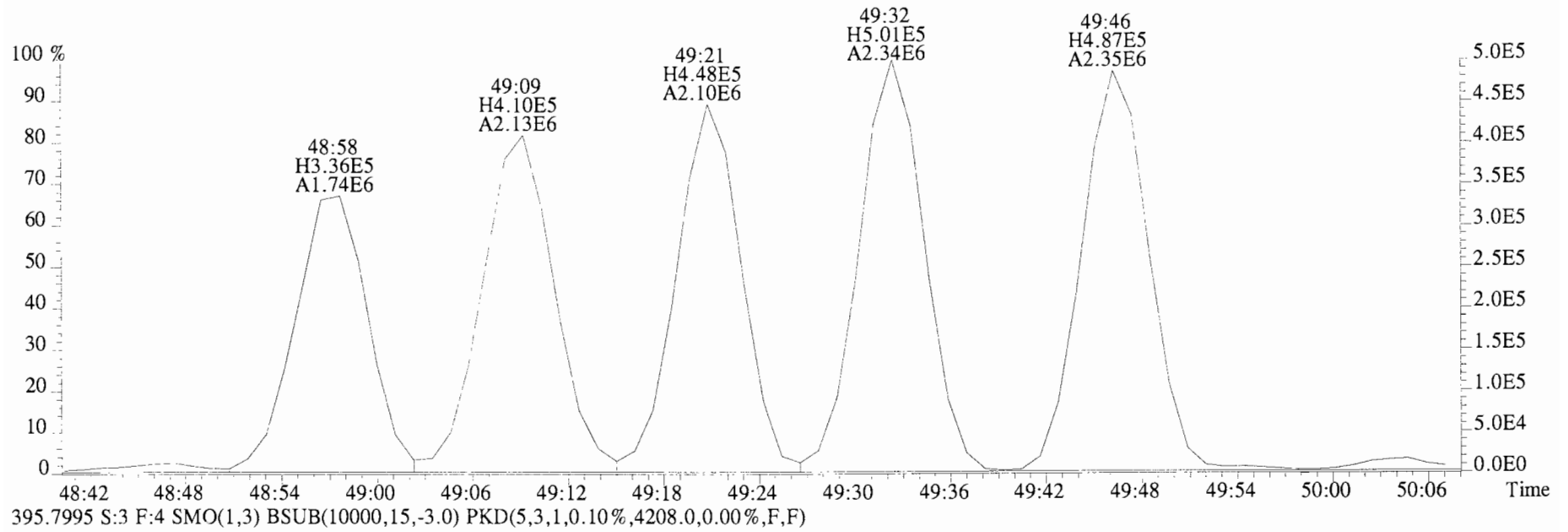
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2932.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
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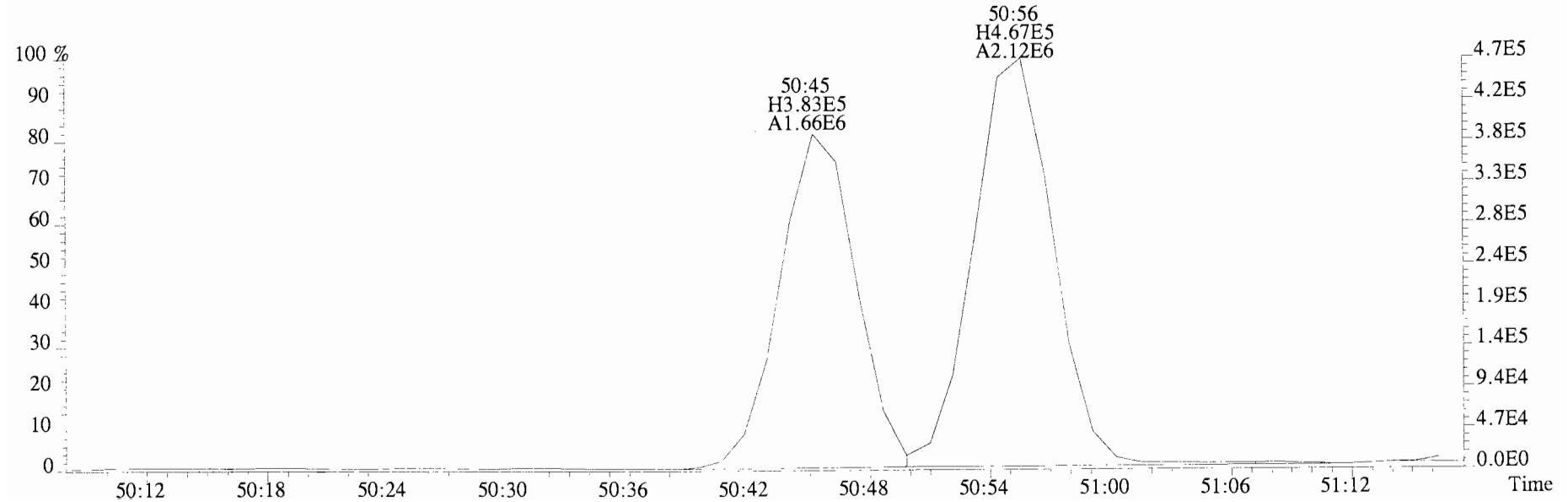
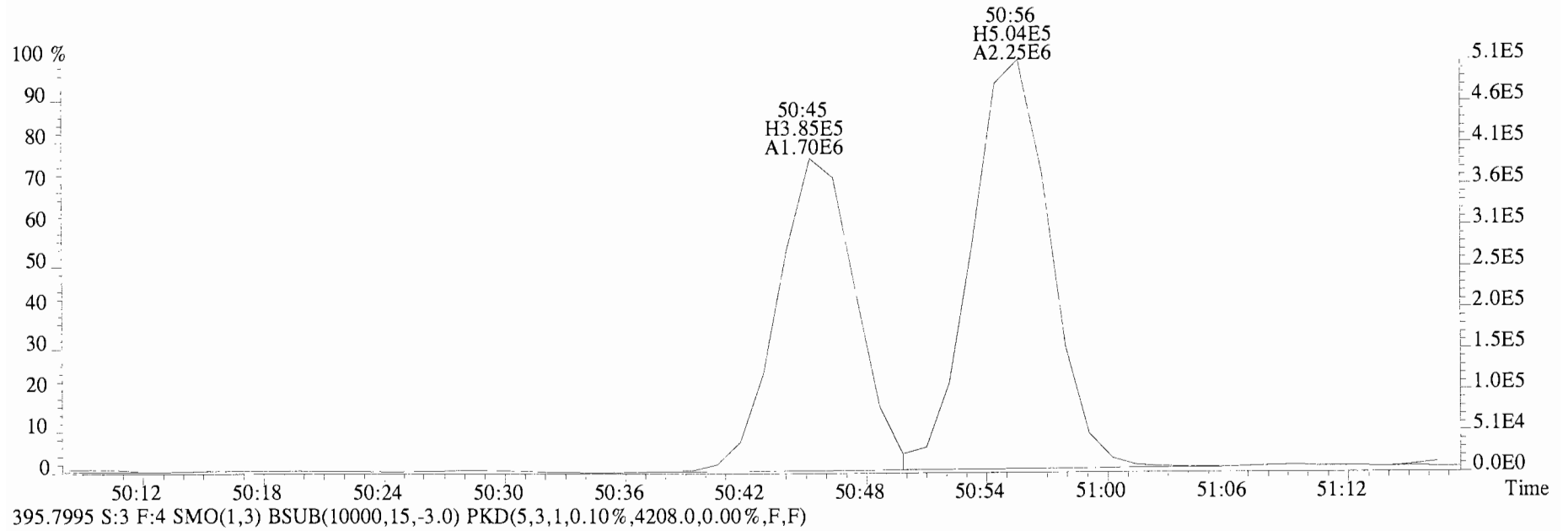


File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
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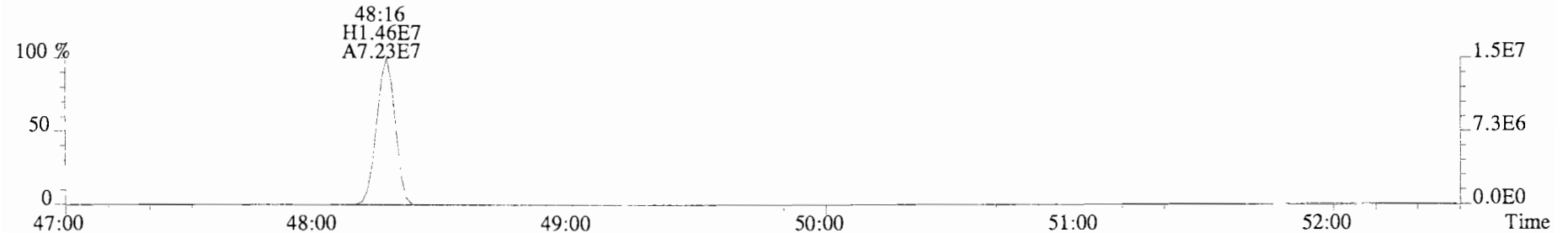
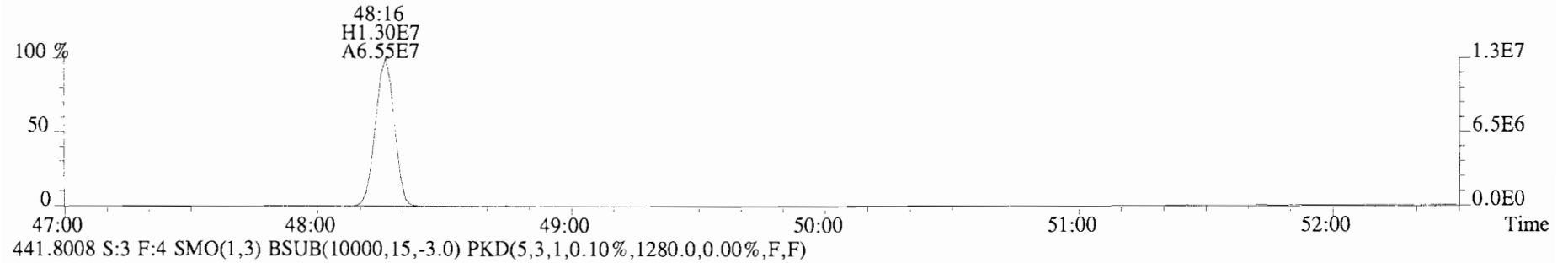
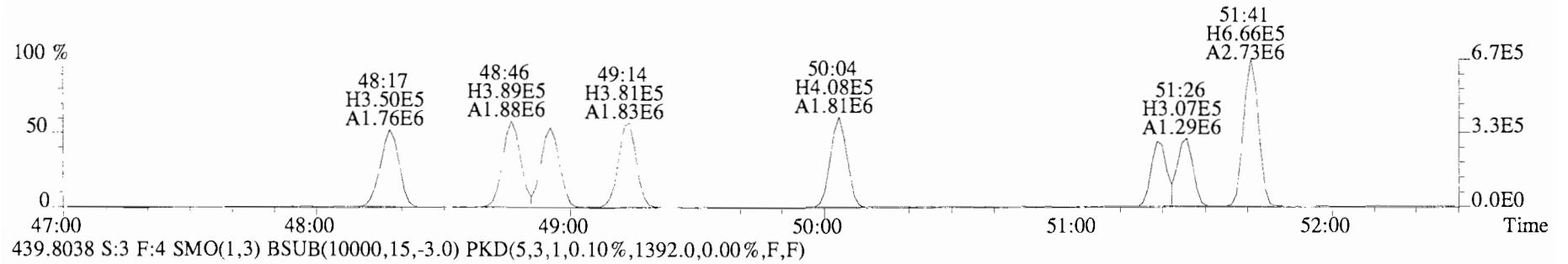
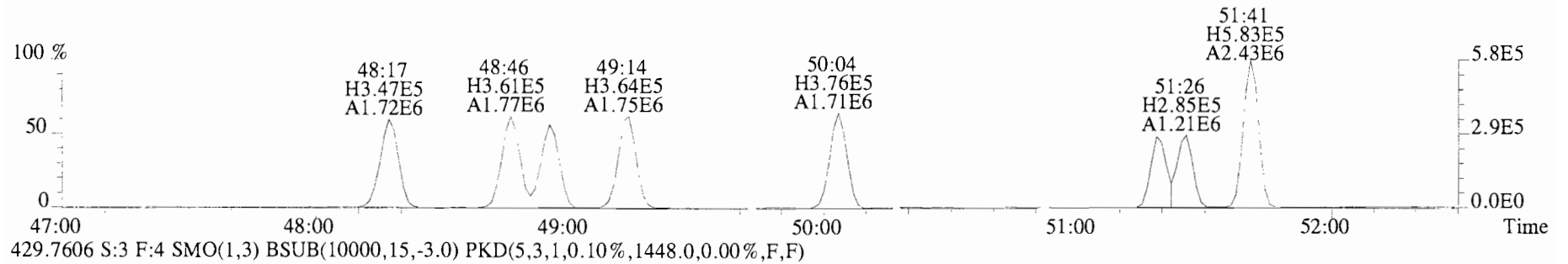




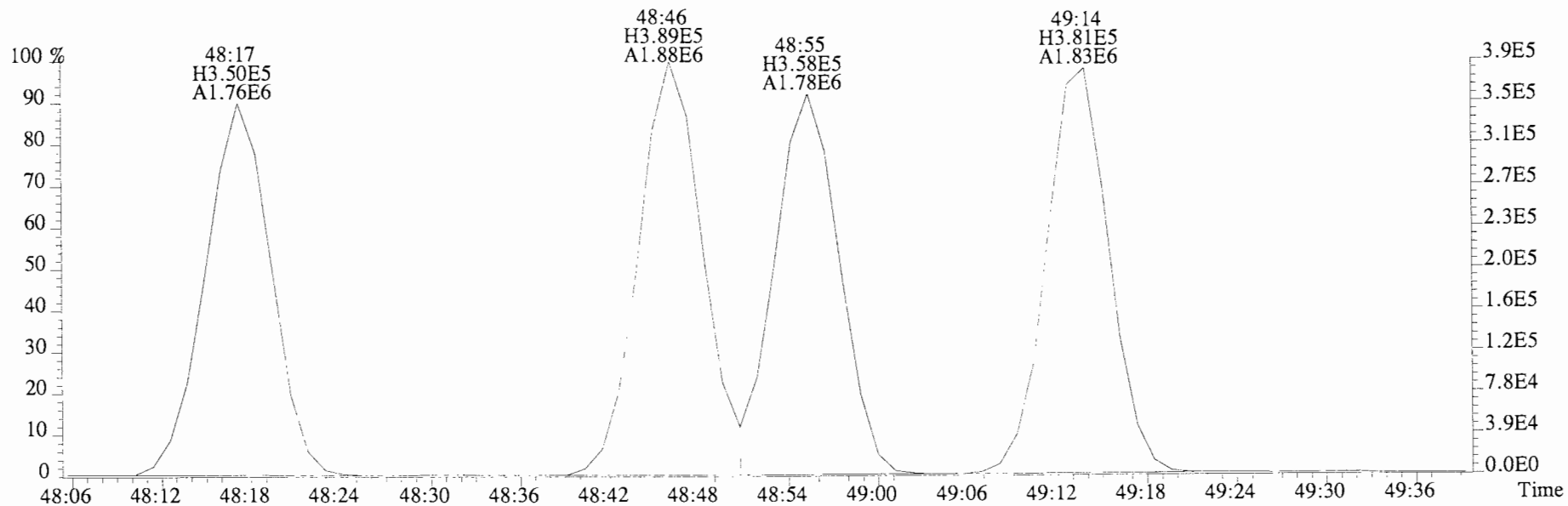
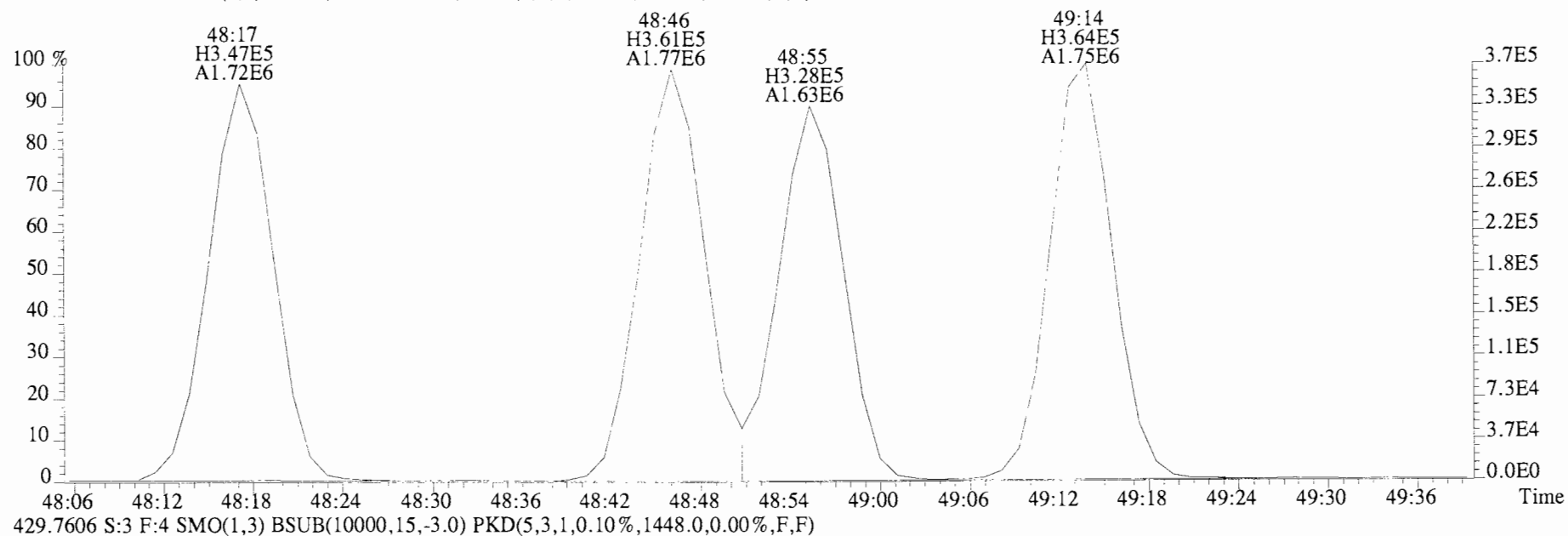
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
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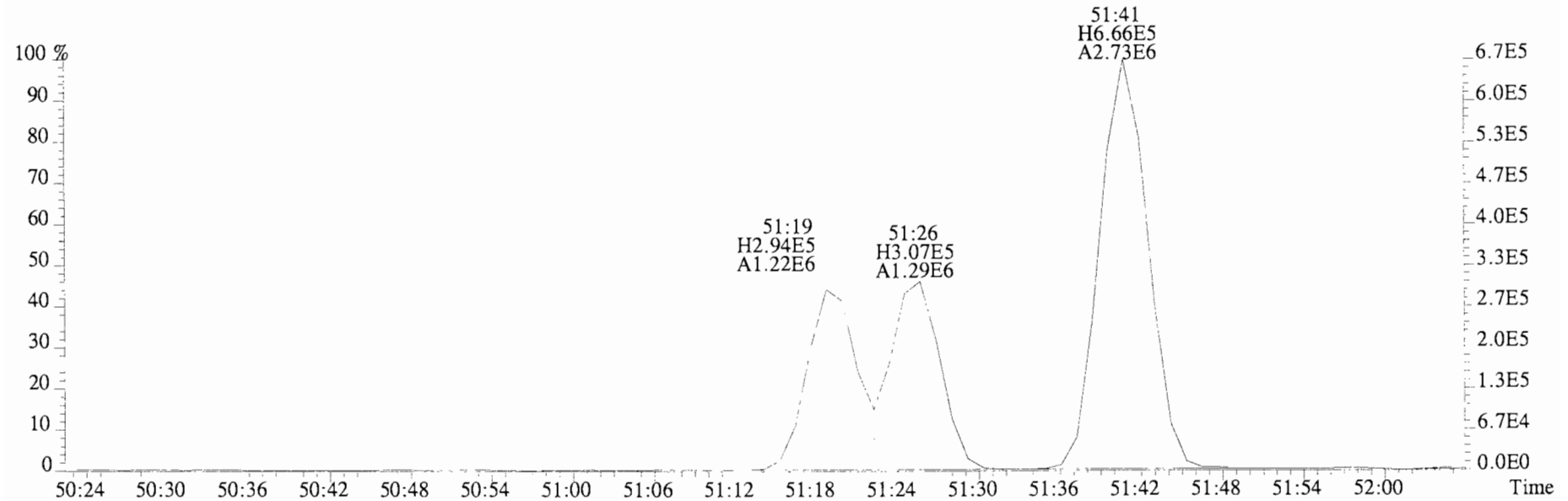
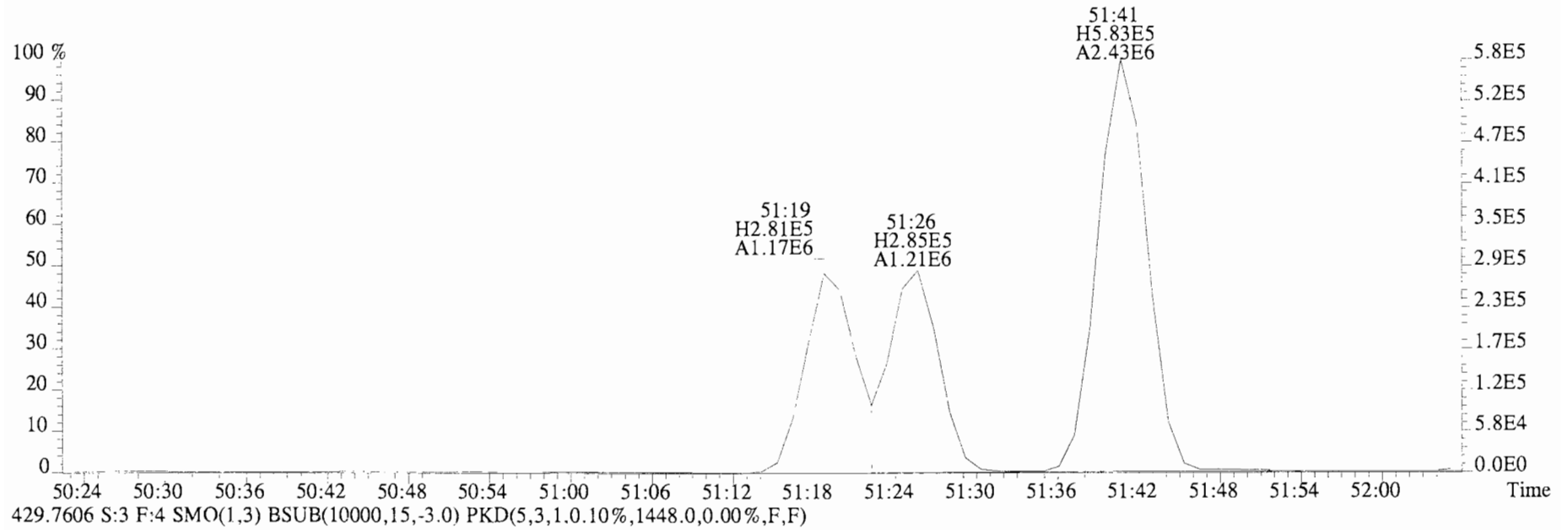
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1268.0,0.00%,F,F)



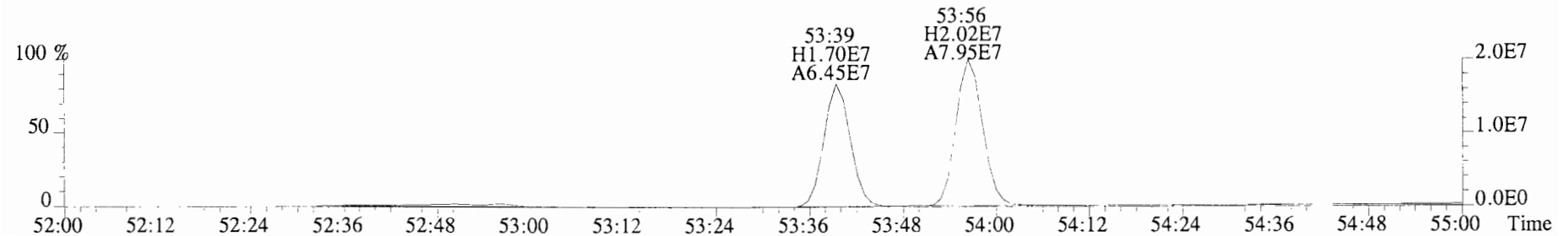
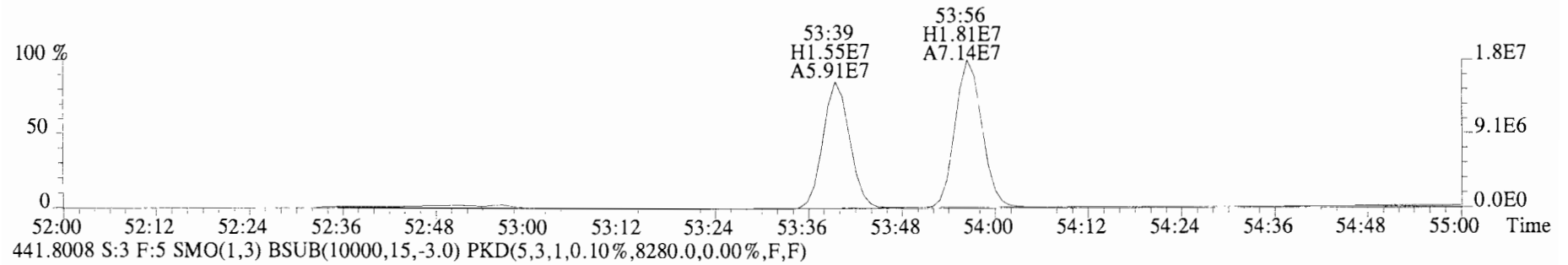
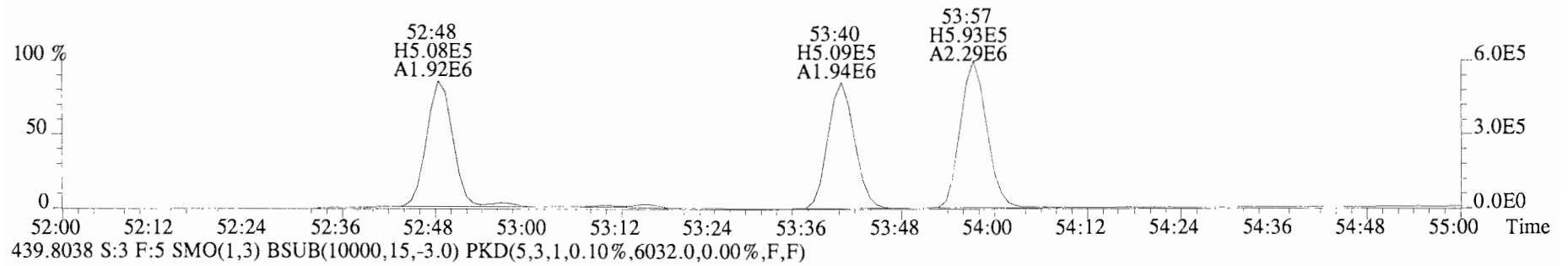
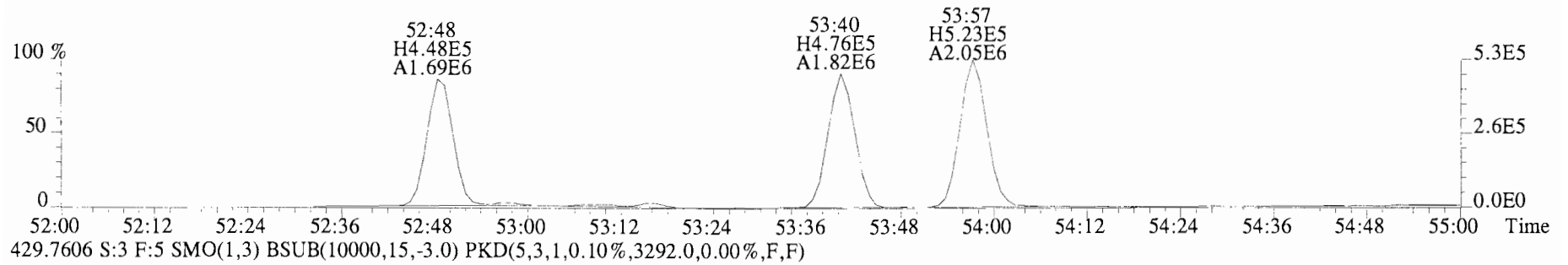
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1268.0,0.00%,F,F)



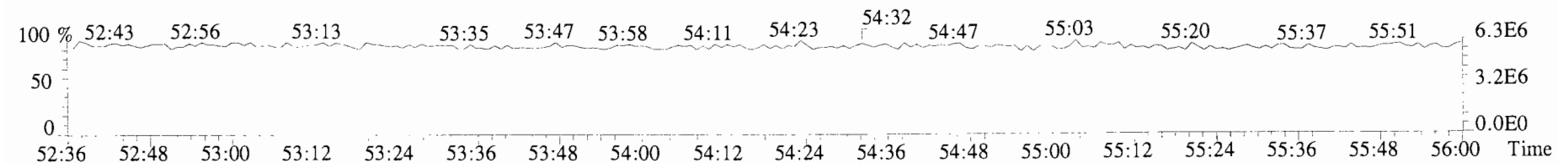
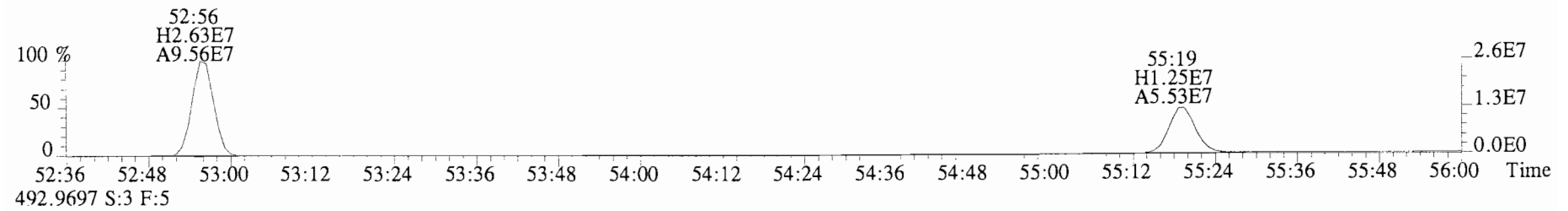
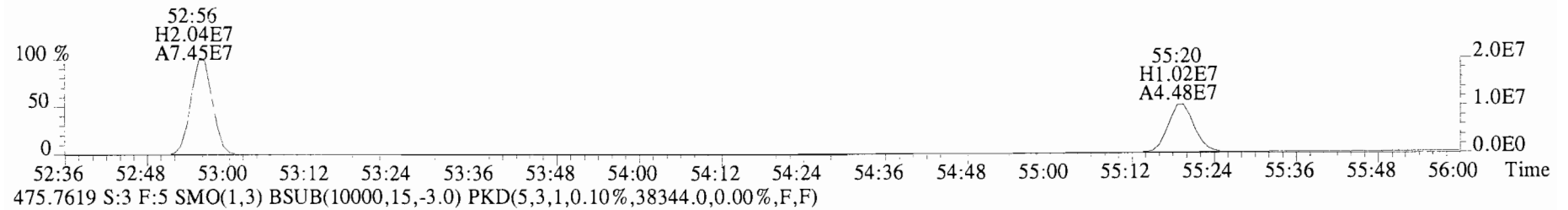
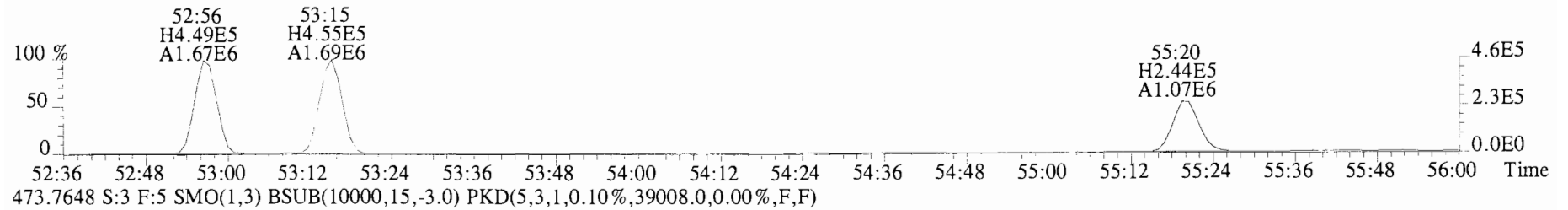
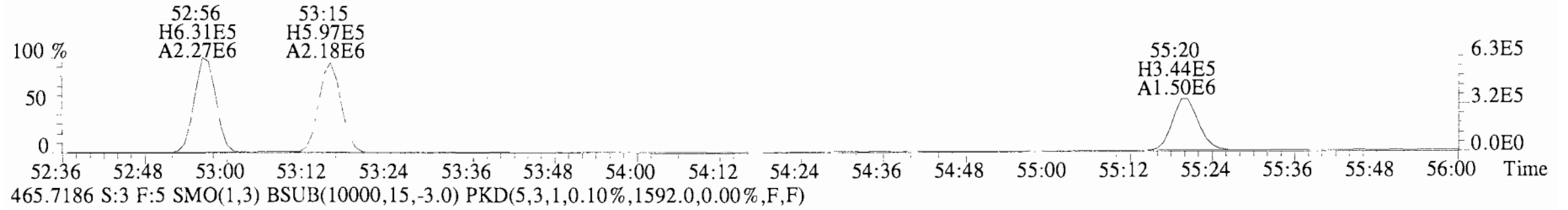
File:140620E1 #1-546 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1268.0,0.00%,F,F)



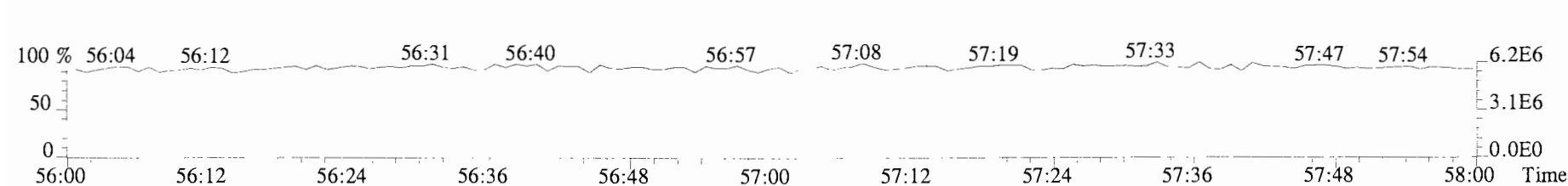
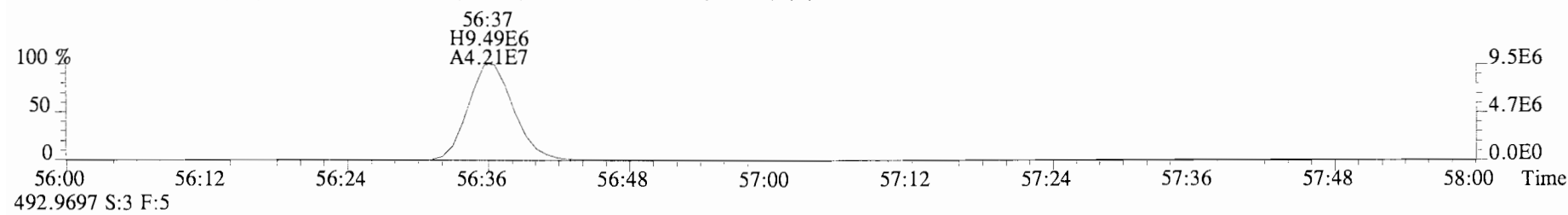
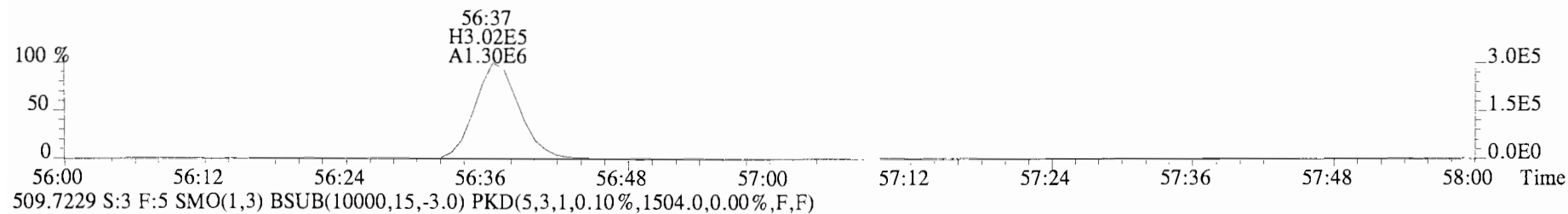
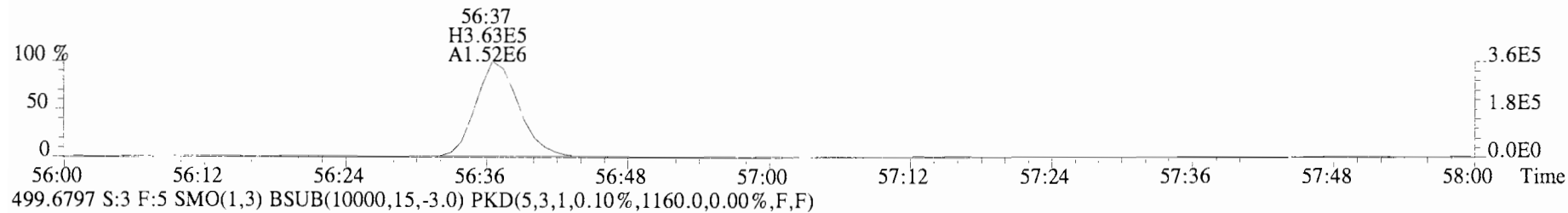
File:140620E1 #1-435 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2512.0,0.00%,F,F)



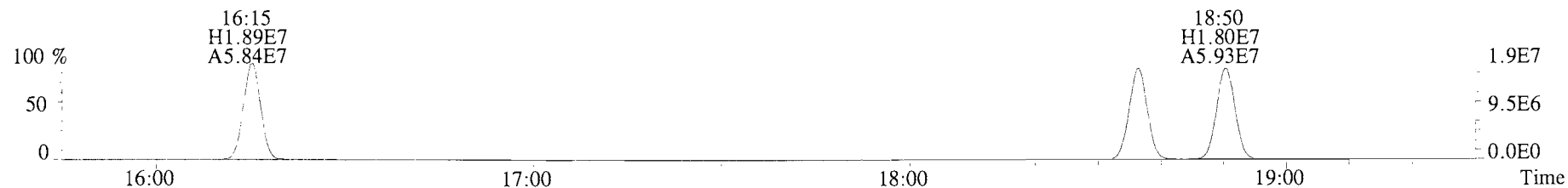
File:140620E1 #1-435 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2232.0,0.00%,F,F)



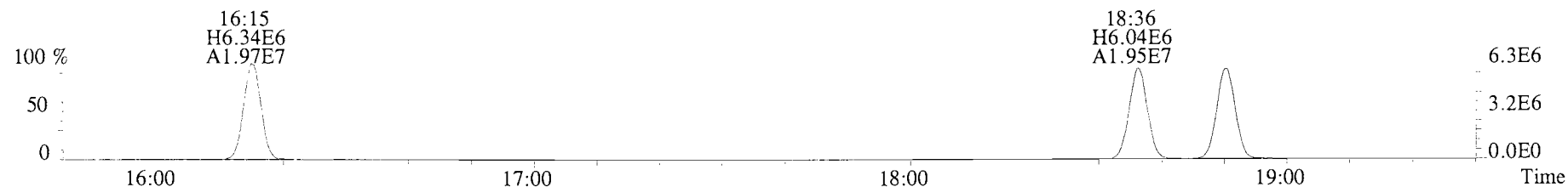
File:140620E1 #1-435 Acq:20-JUN-2014 11:39:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-3 PCB CS2 13H1205 Exp:PCB\_ZB1  
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1420.0,0.00%,F,F)



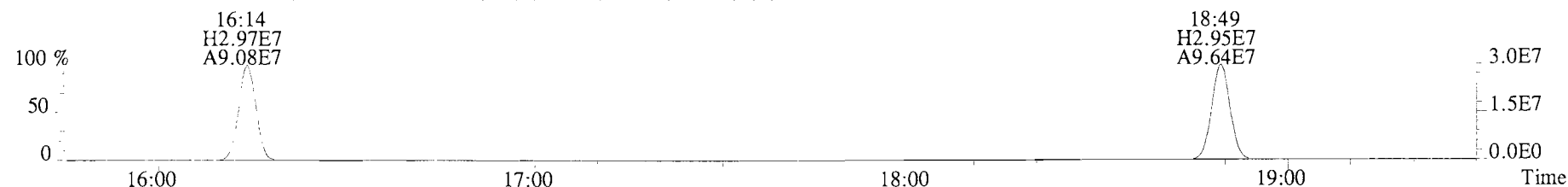
File:140620E1 #1-729 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4832.0,0.00%,F,F)



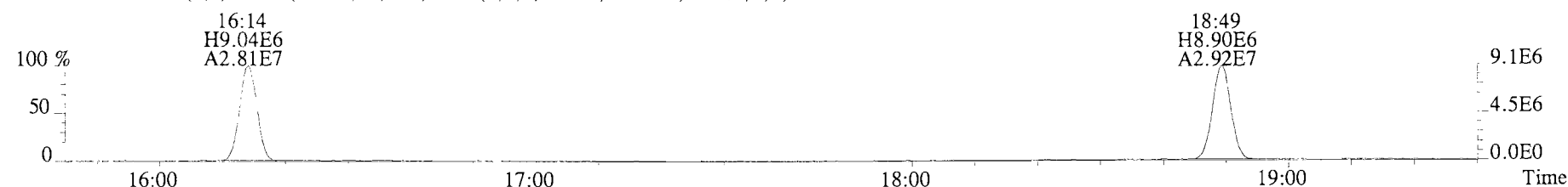
190.0363 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4400.0,0.00%,F,F)



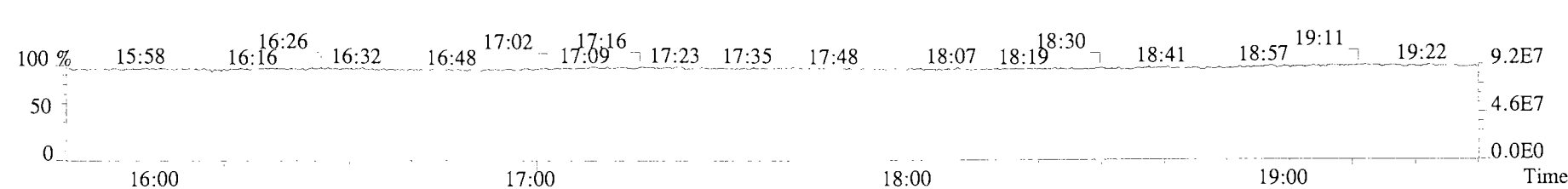
200.0795 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5472.0,0.00%,F,F)



202.0766 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31444.0,0.00%,F,F)

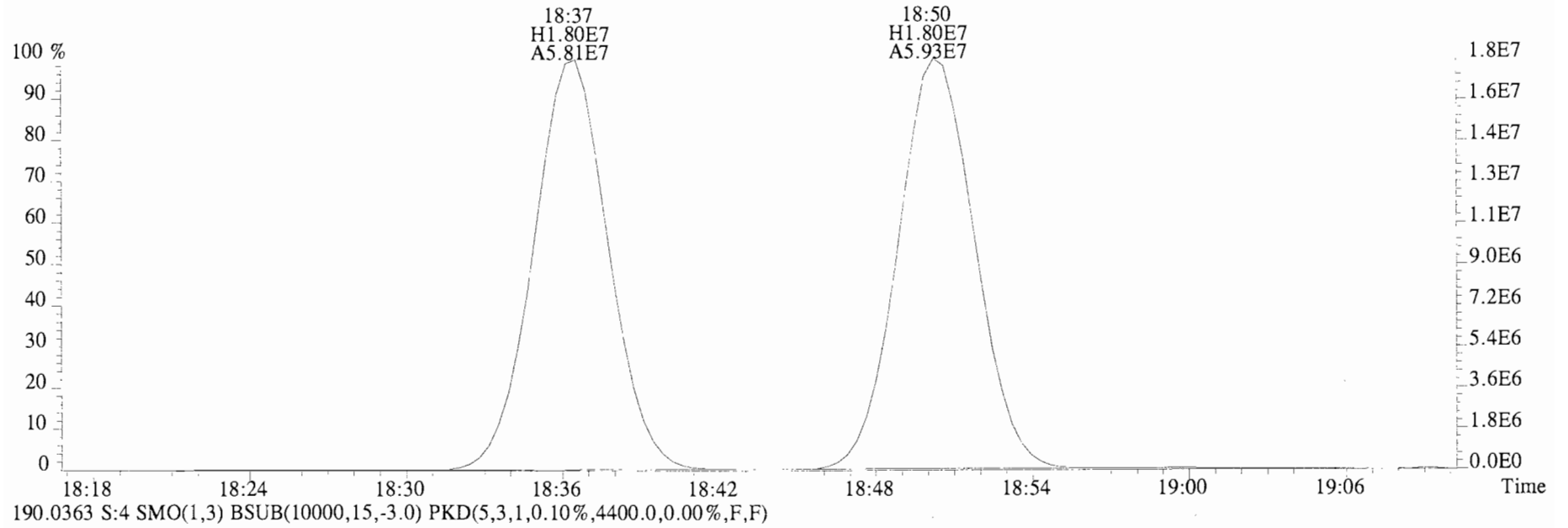


180.9880 S:4

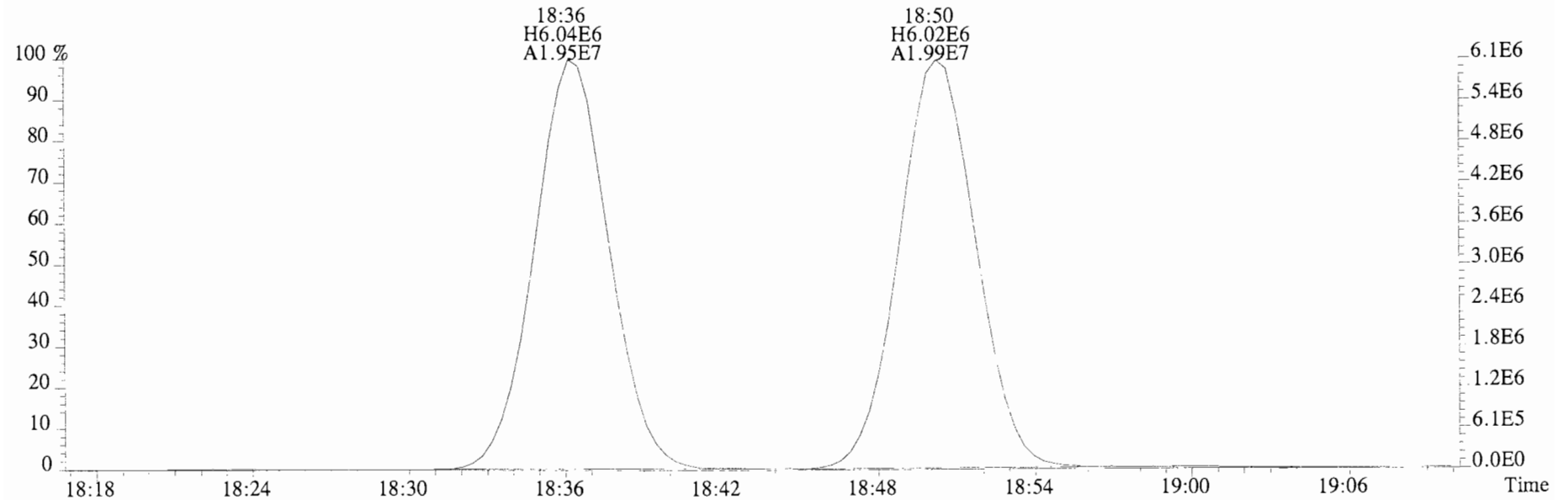




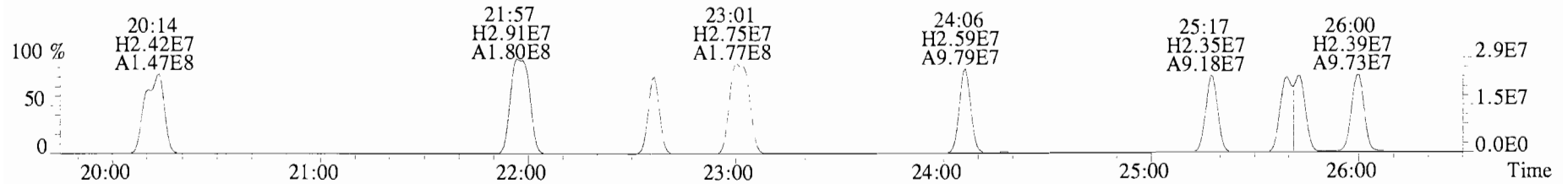
File:140620E1 #1-729 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4832.0,0.00%,F,F)



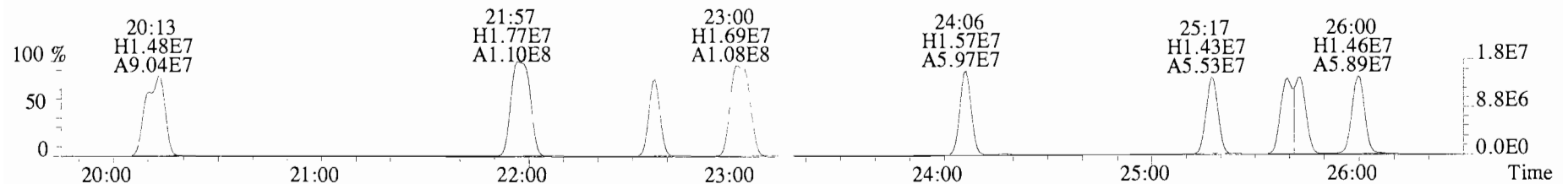
190.0363 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4400.0,0.00%,F,F)



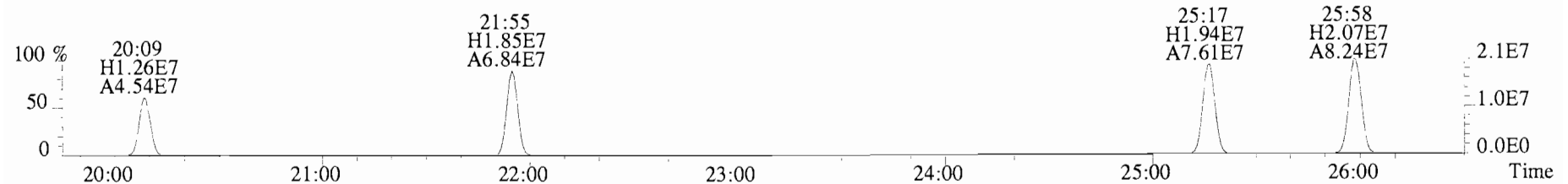
File:140620E1 #1-749 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7864.0,0.00%,F,F)



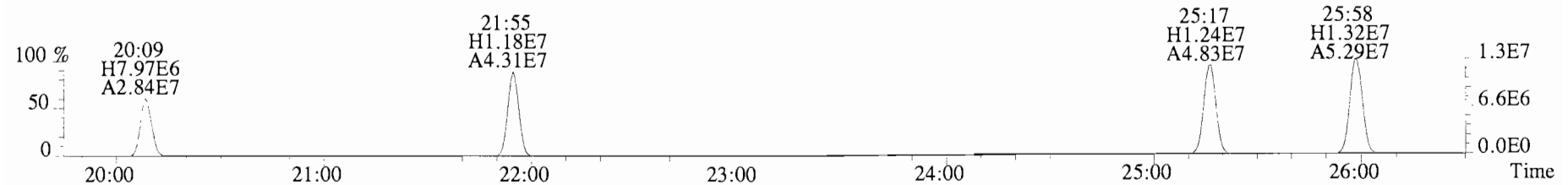
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41784.0,0.00%,F,F)



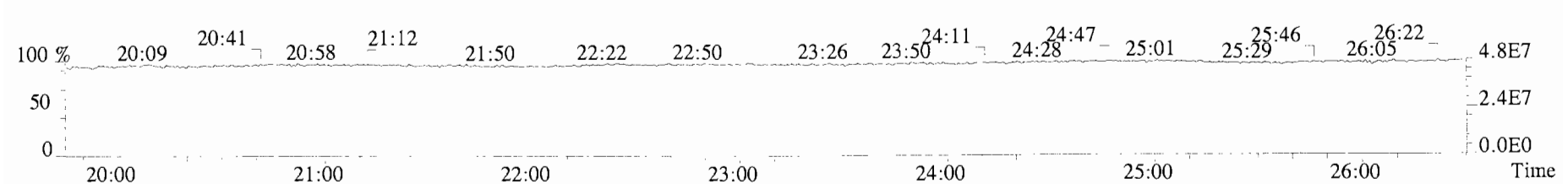
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5452.0,0.00%,F,F)



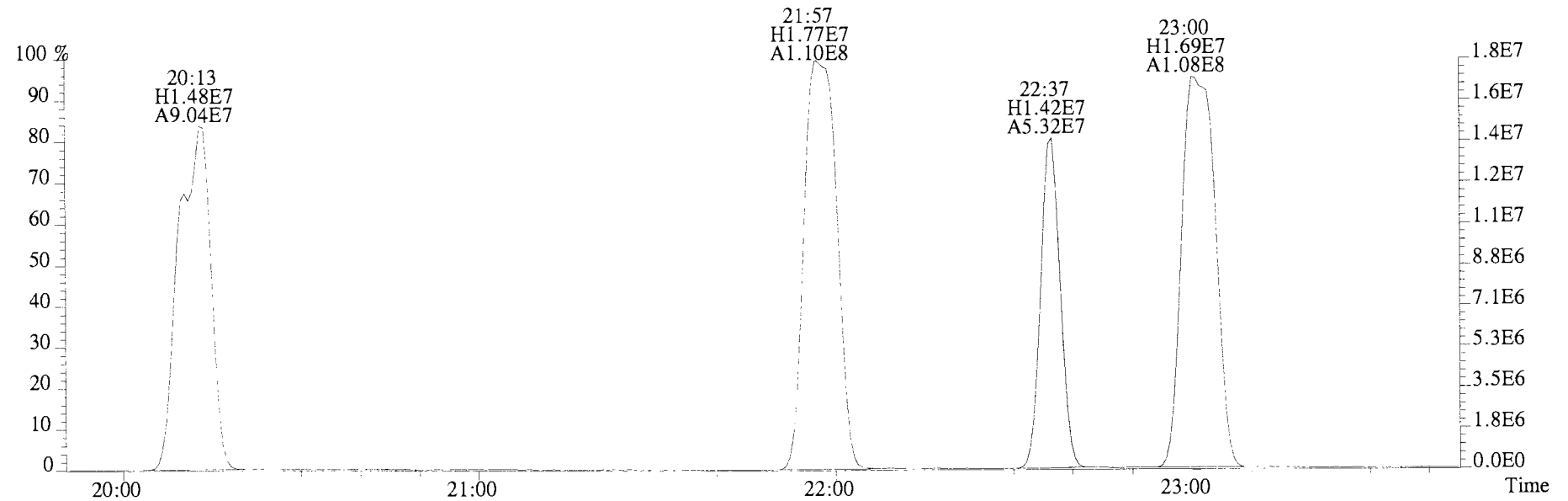
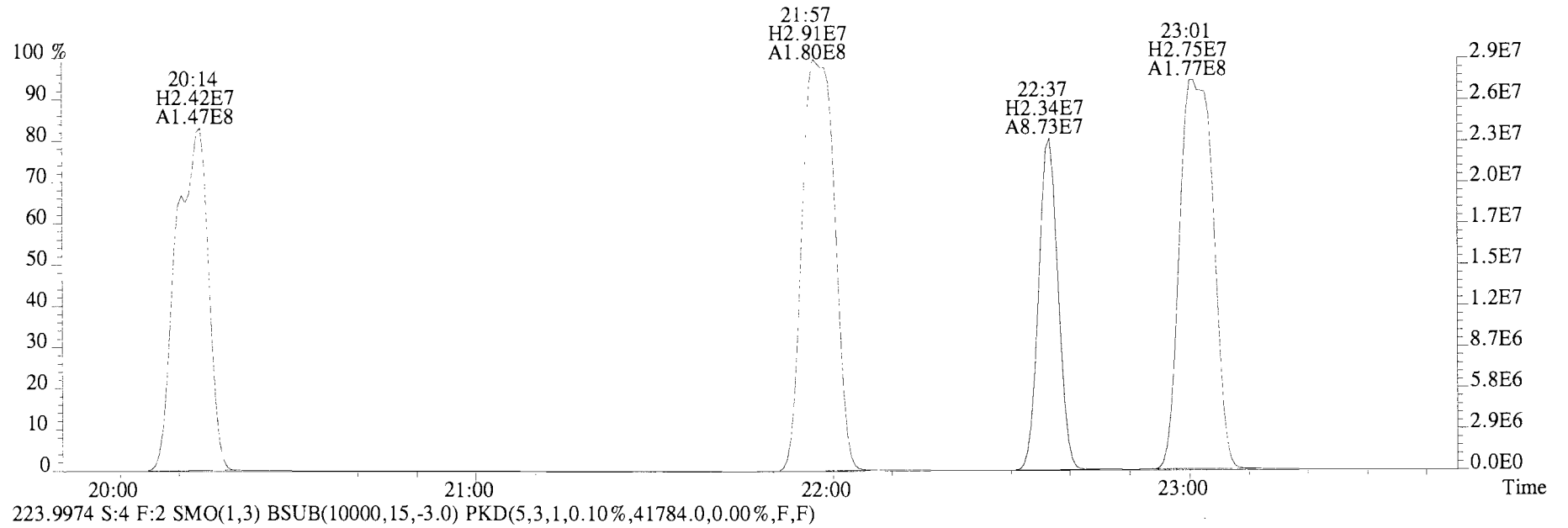
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4900.0,0.00%,F,F)



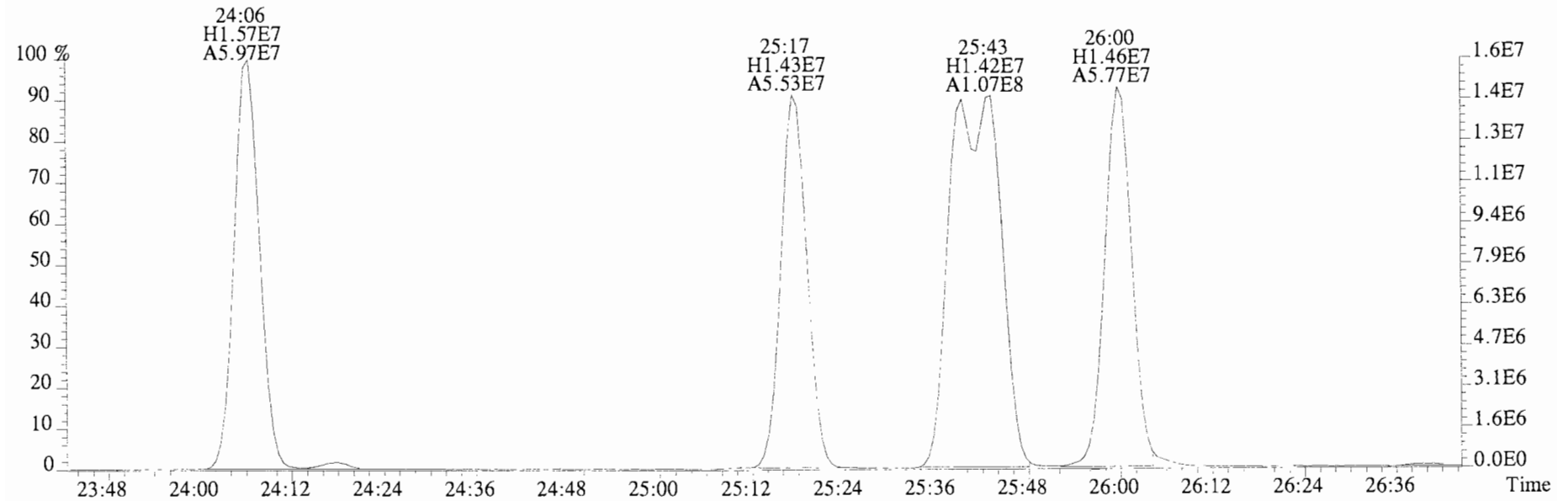
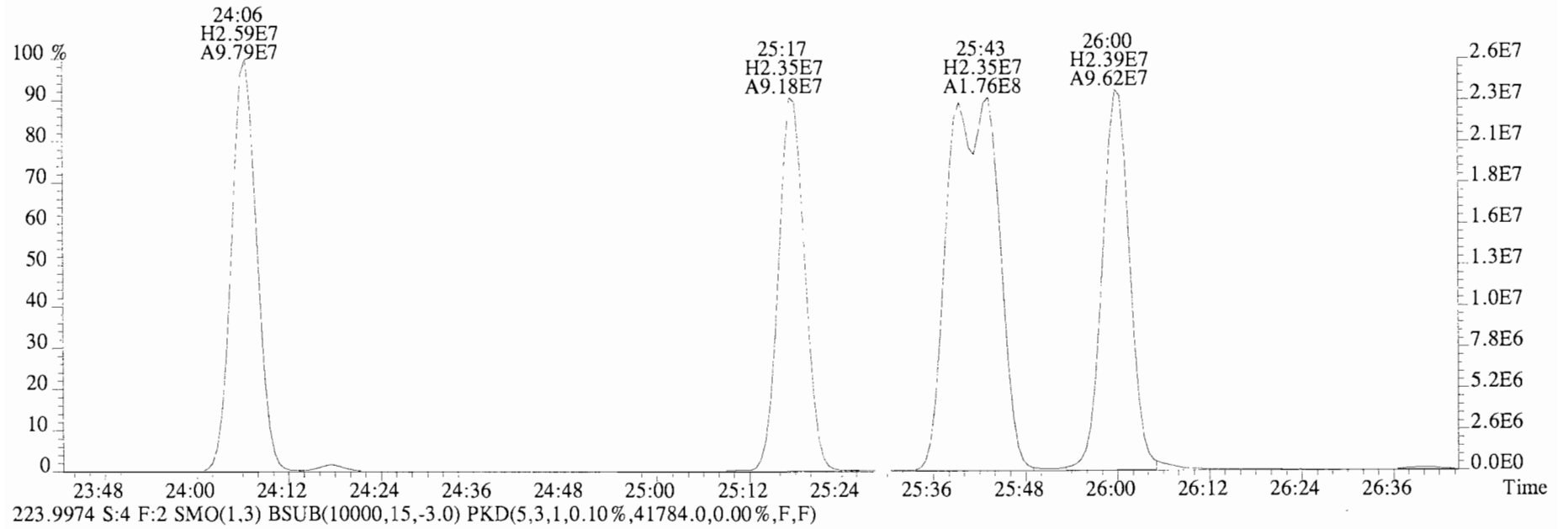
230.9856 S:4 F:2



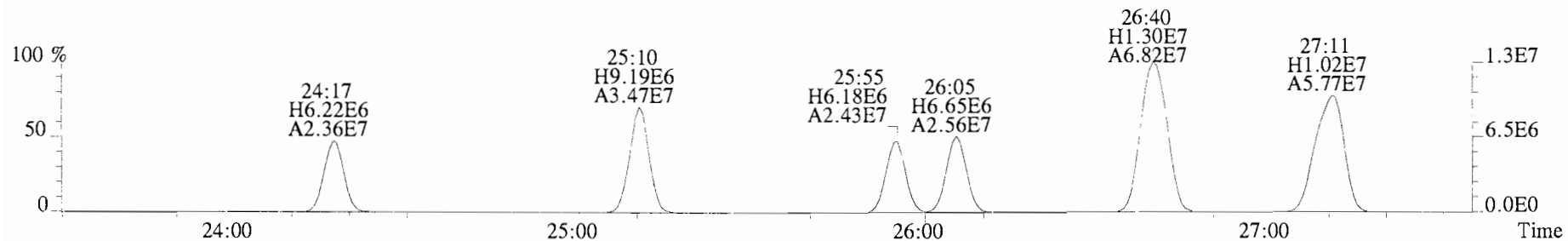
File:140620E1 #1-749 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7864.0,0.00%,F,F)



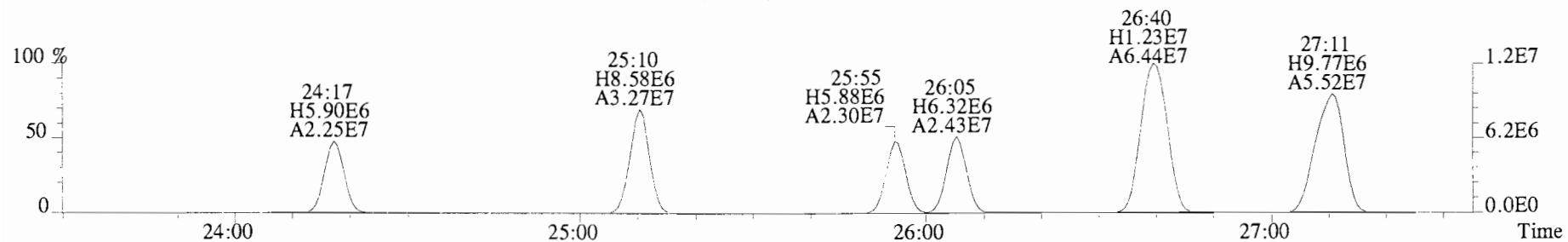
File:140620E1 #1-749 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7864.0,0.00%,F,F)



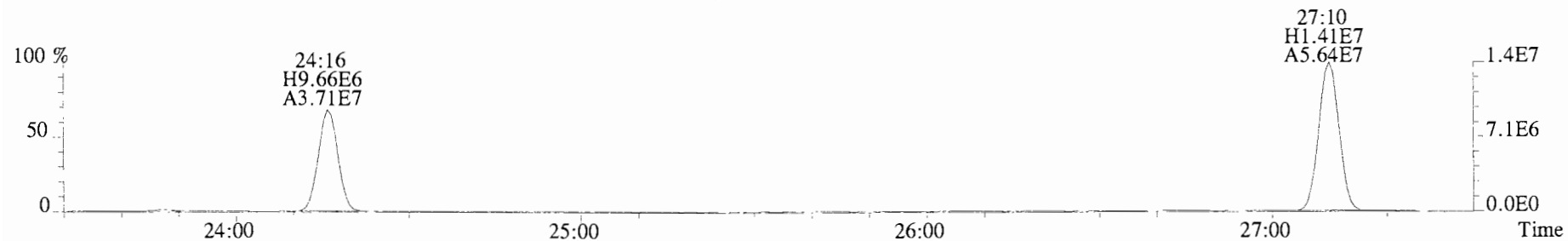
File:140620E1 #1-749 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3948.0,0.00%,F,F)



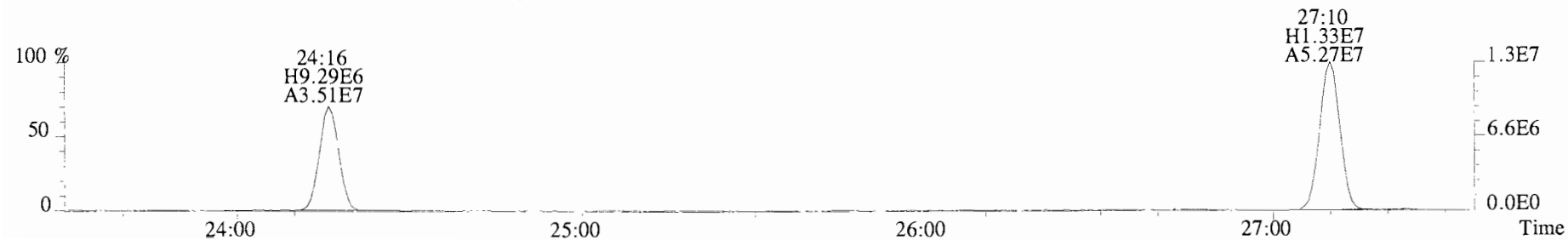
257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1624.0,0.00%,F,F)



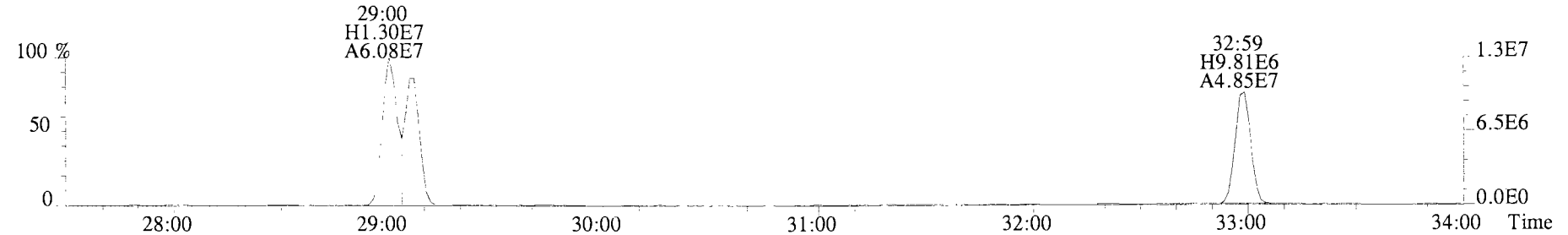
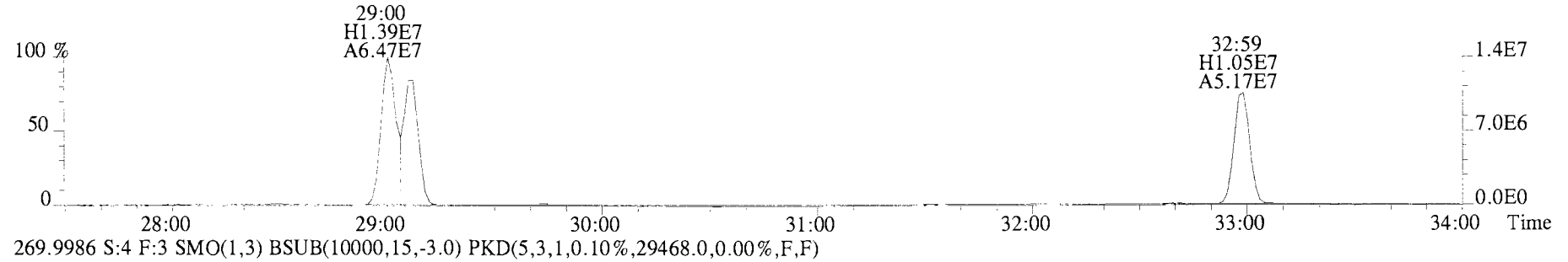
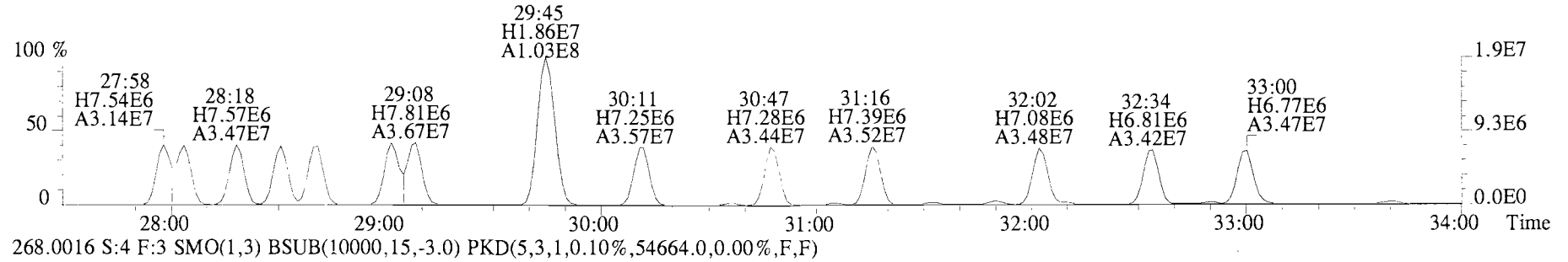
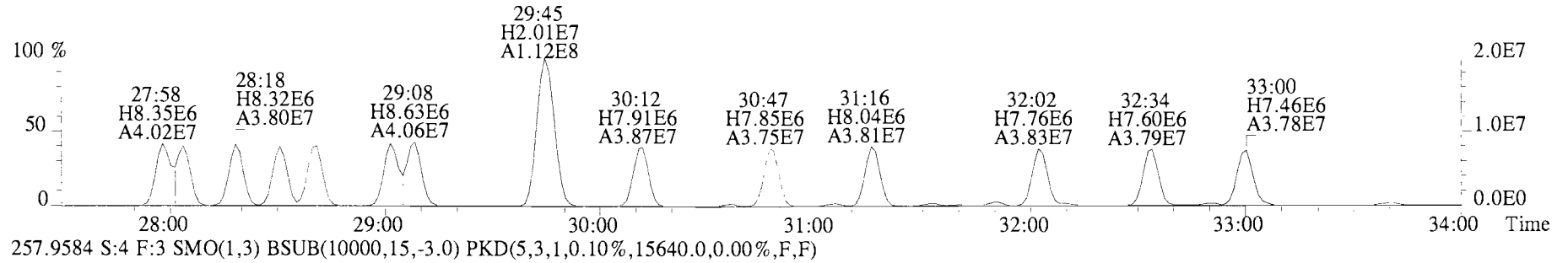
268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,55180.0,0.00%,F,F)



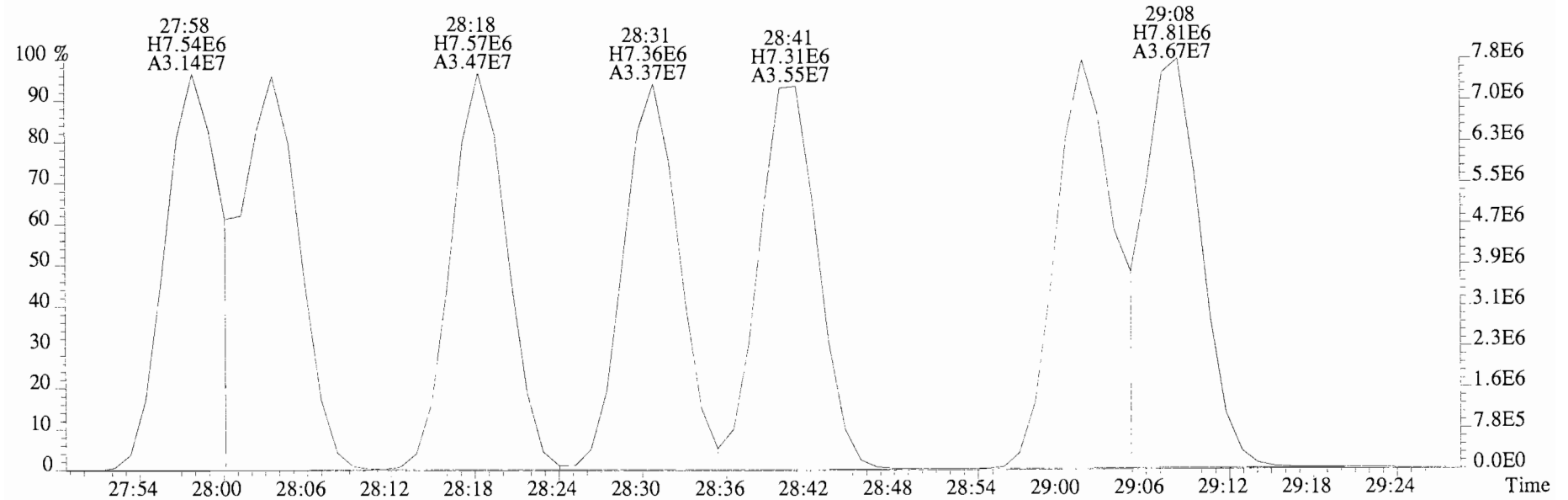
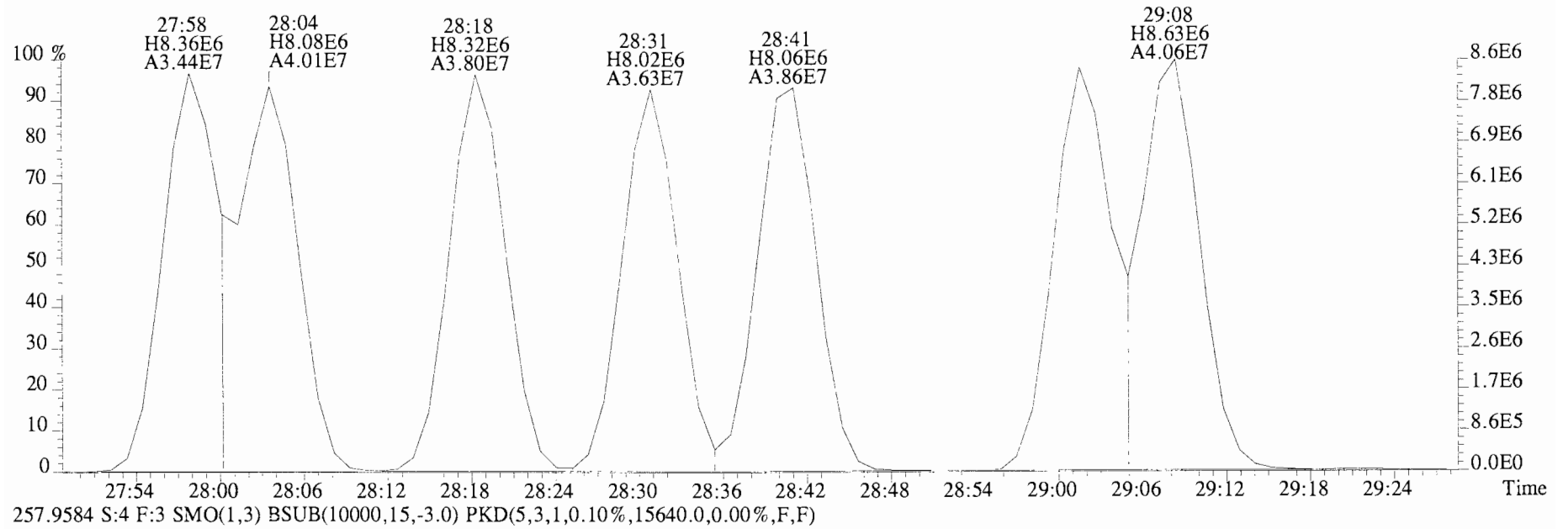
269.9986 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33588.0,0.00%,F,F)



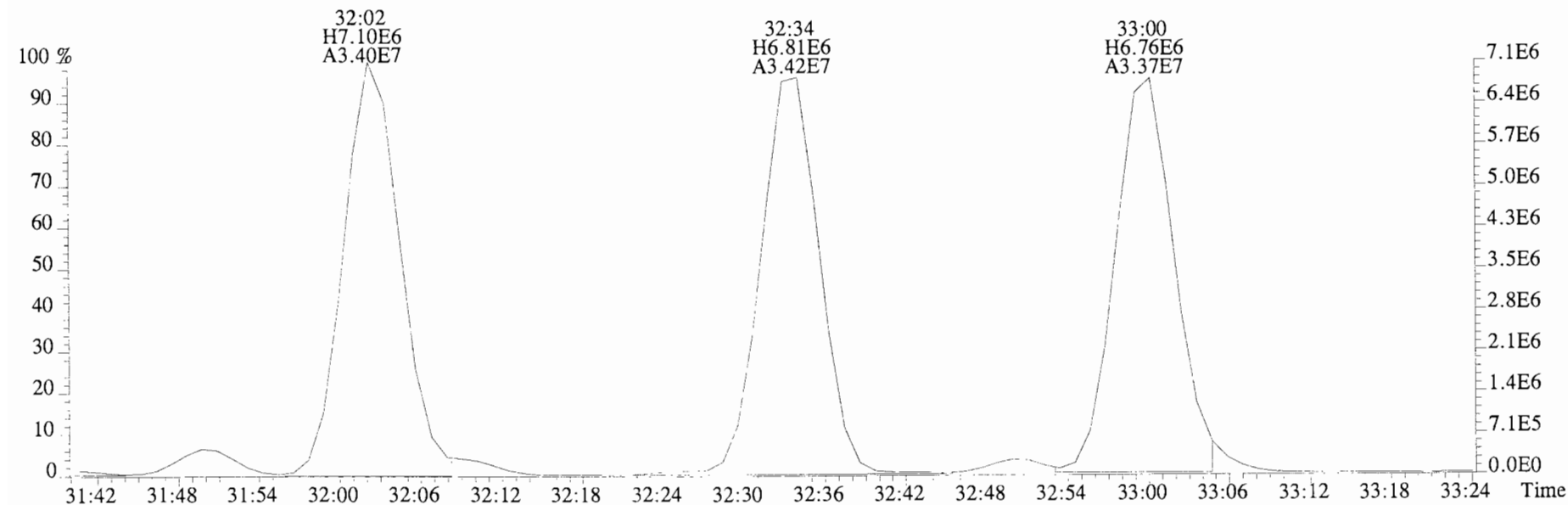
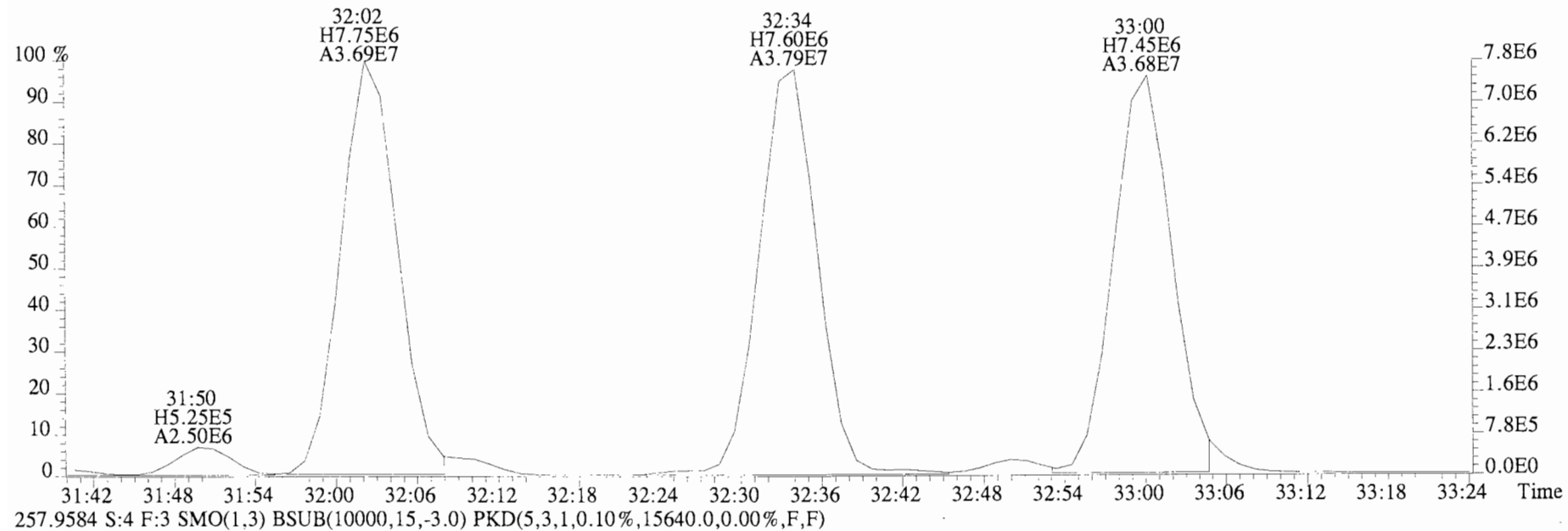
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,20944.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,20944.0,0.00%,F,F)

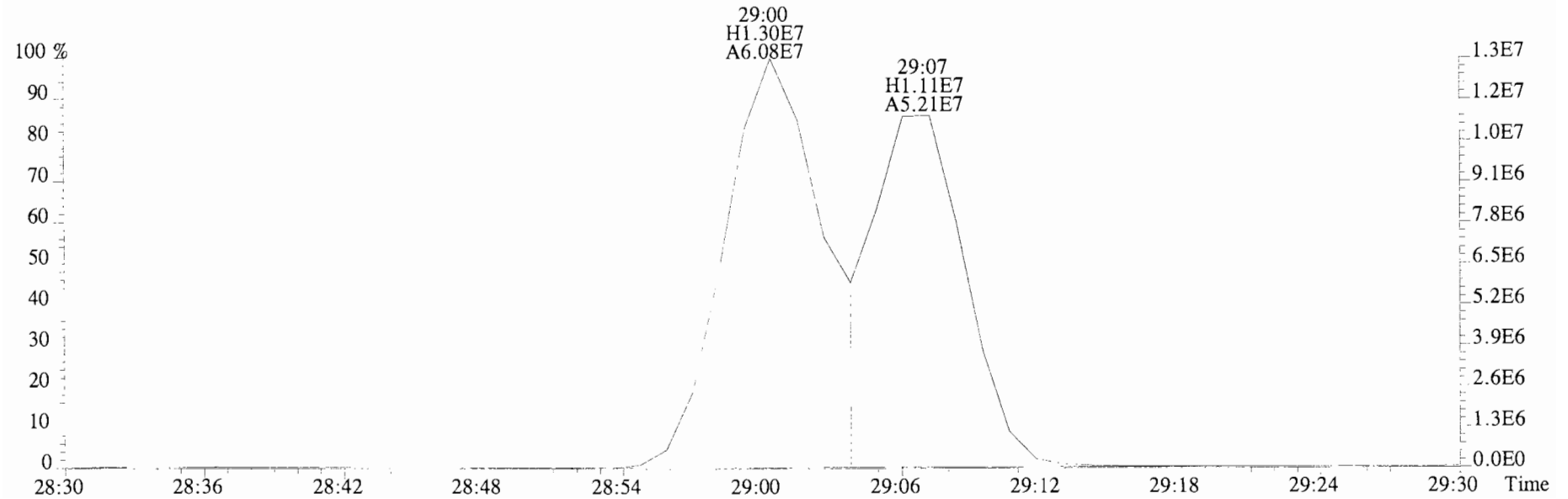
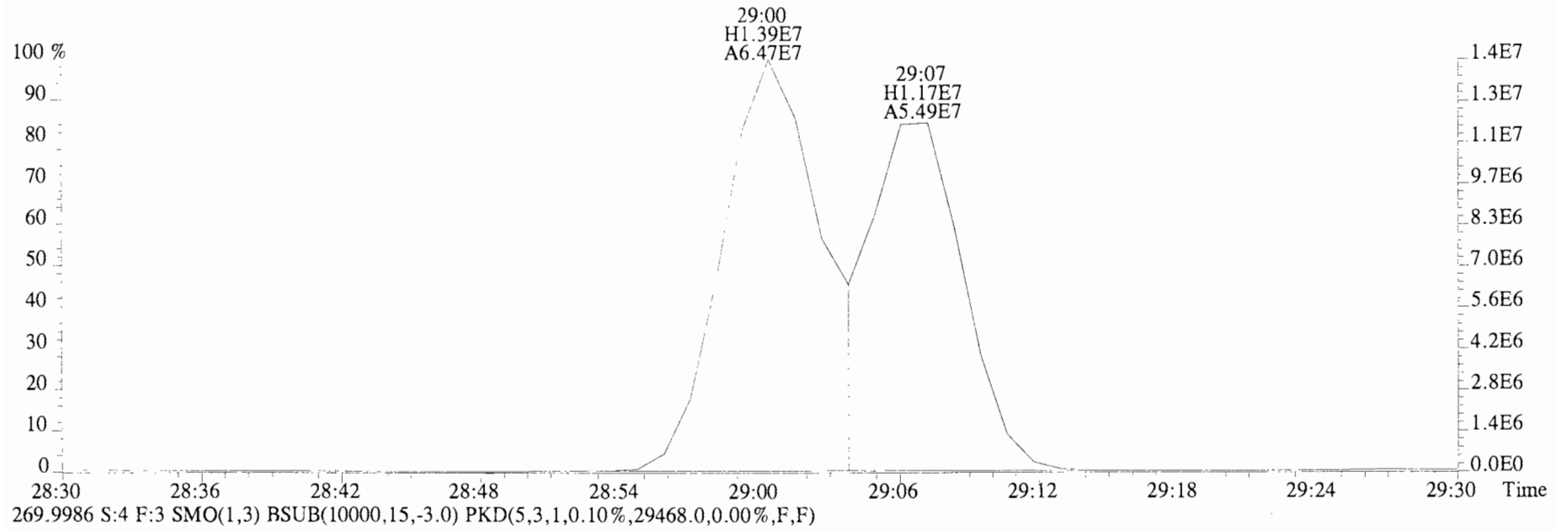


File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,20944.0,0.00%,F,F)

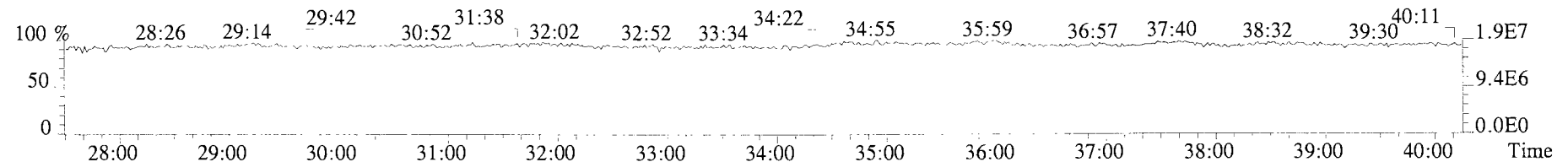
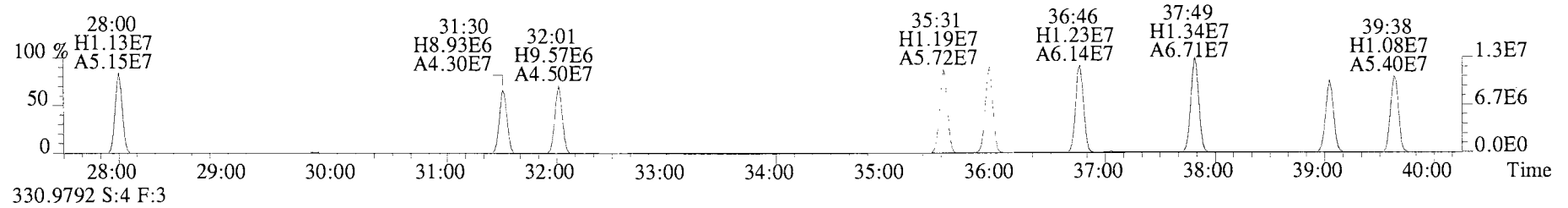
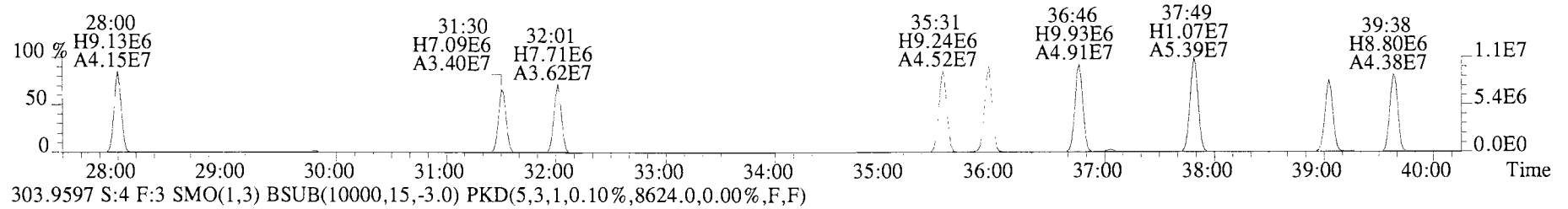
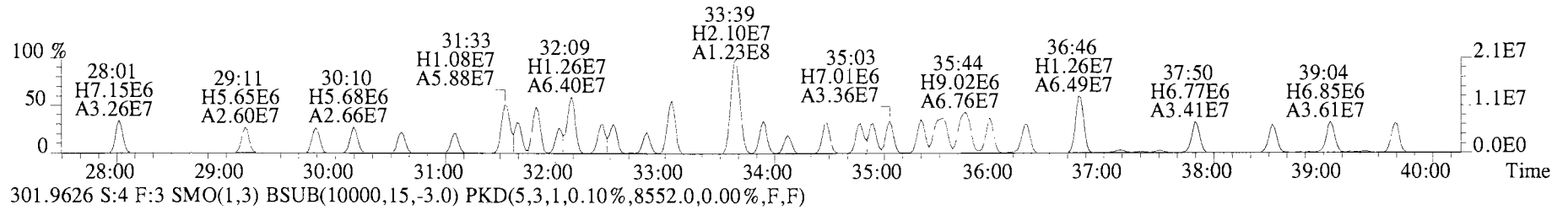
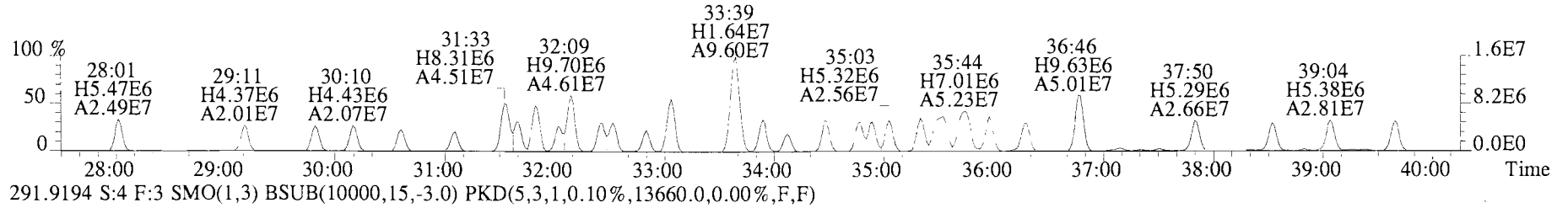




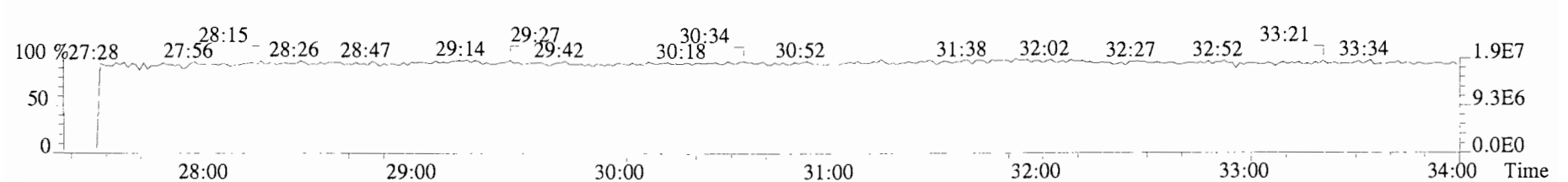
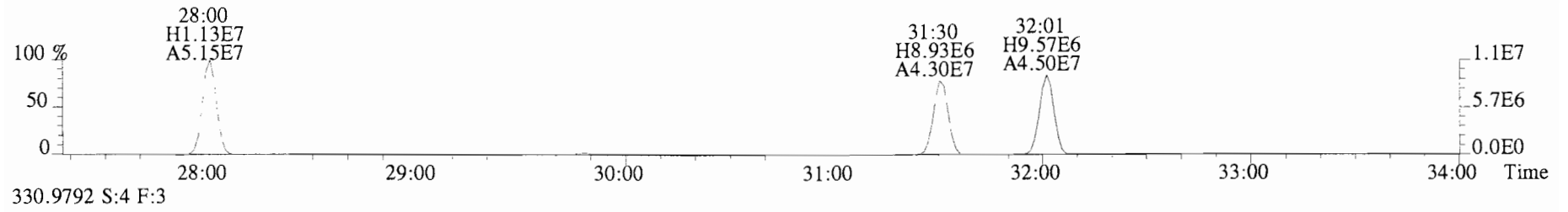
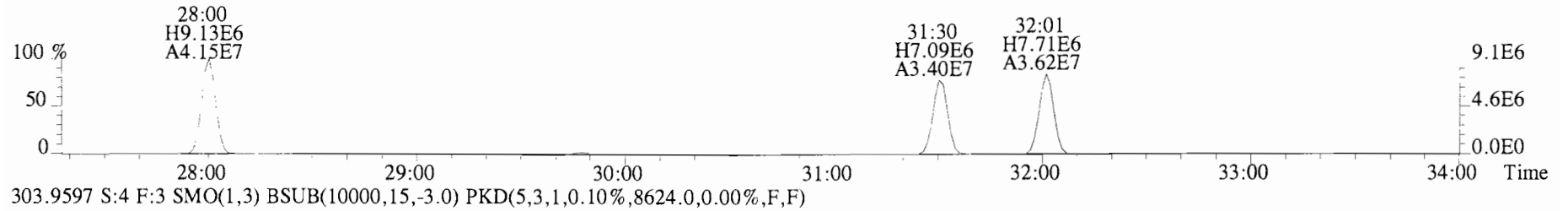
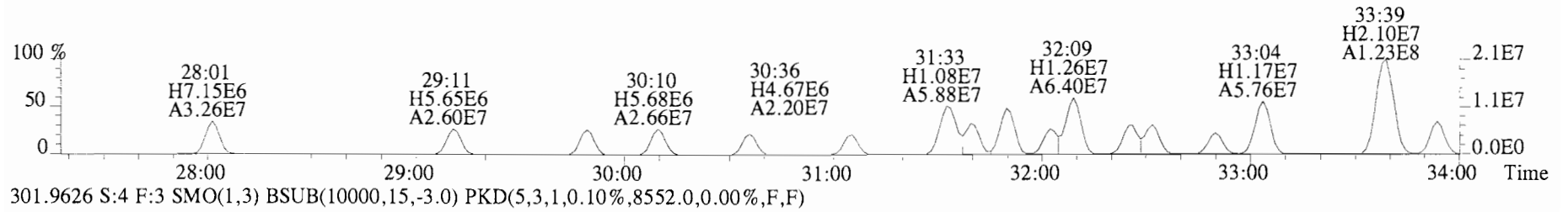
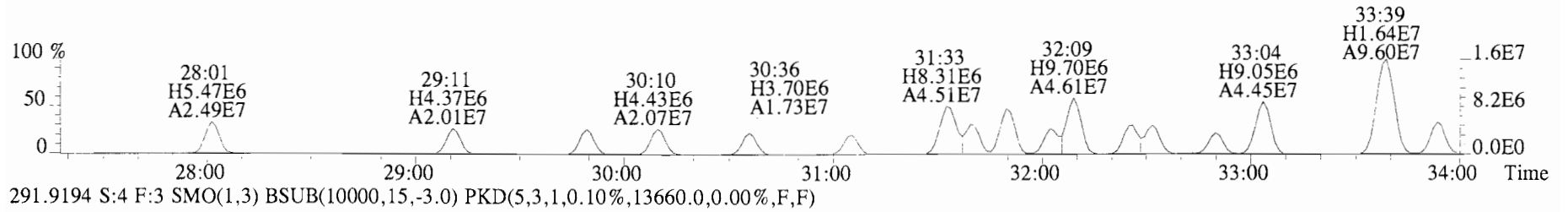
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,54664.0,0.00%,F,F)



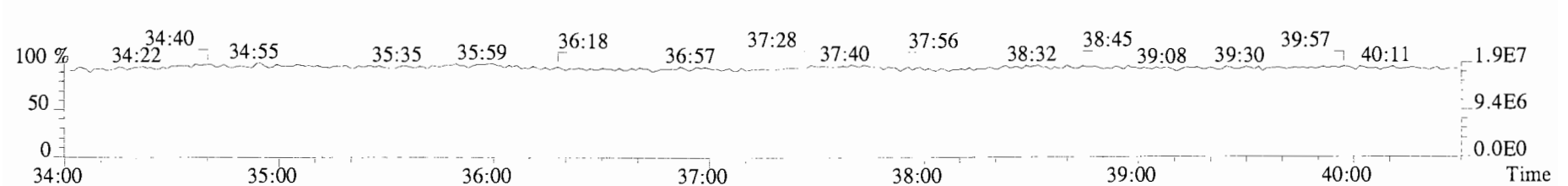
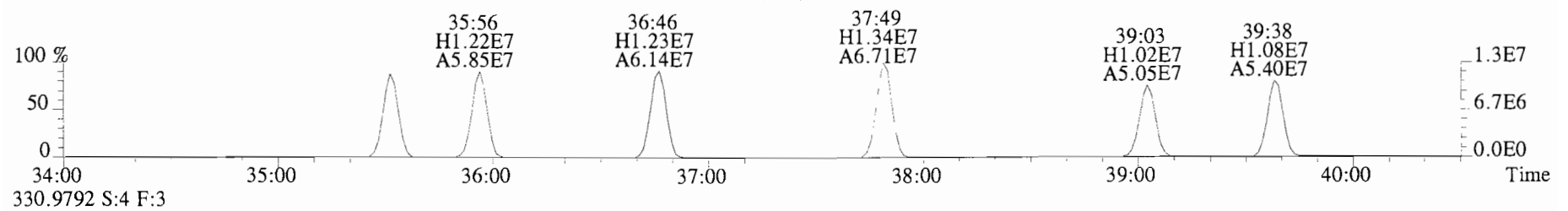
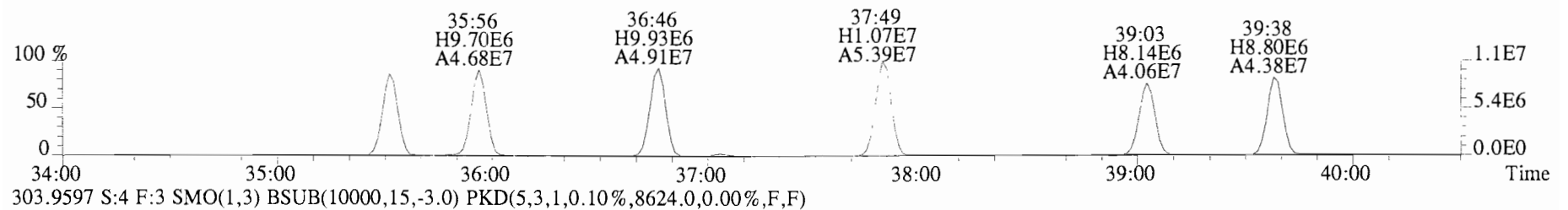
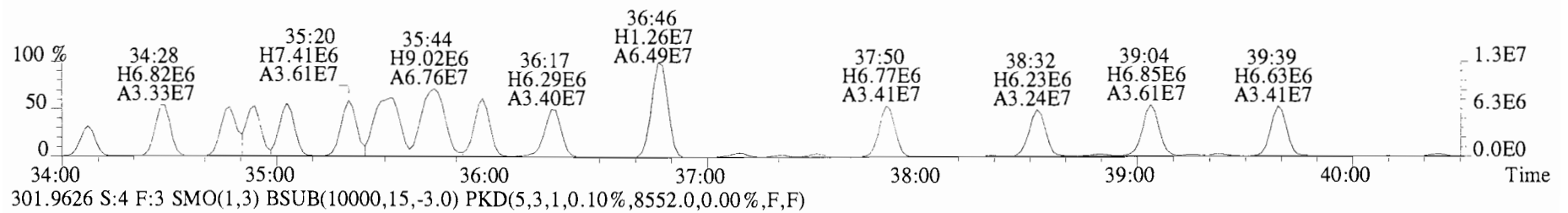
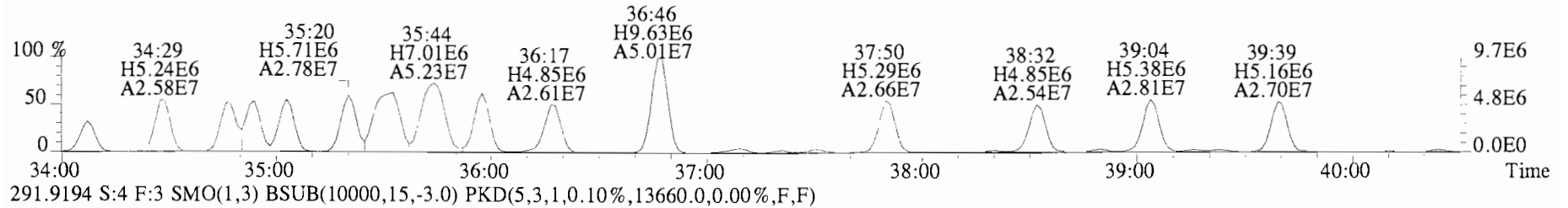
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)



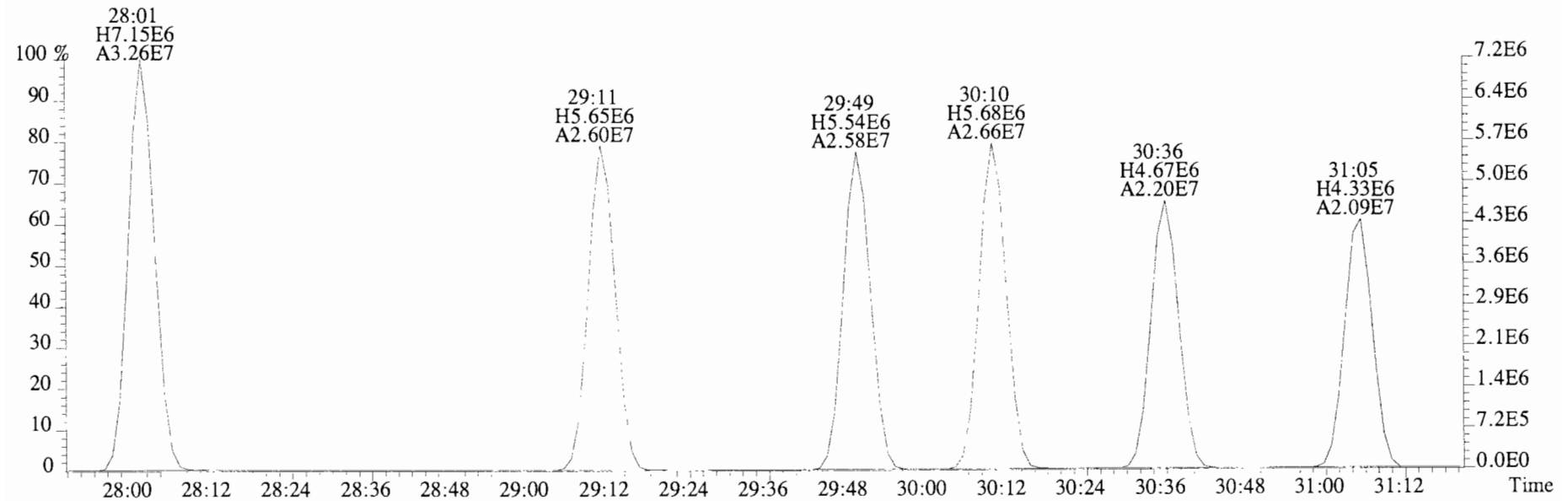
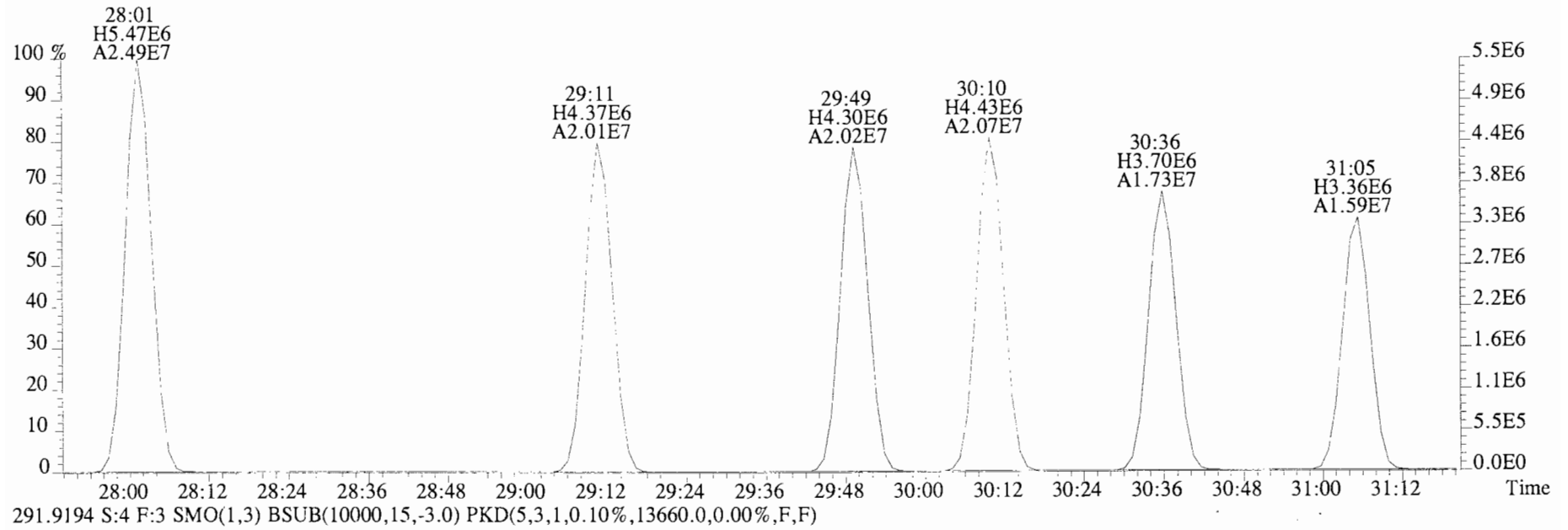
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)



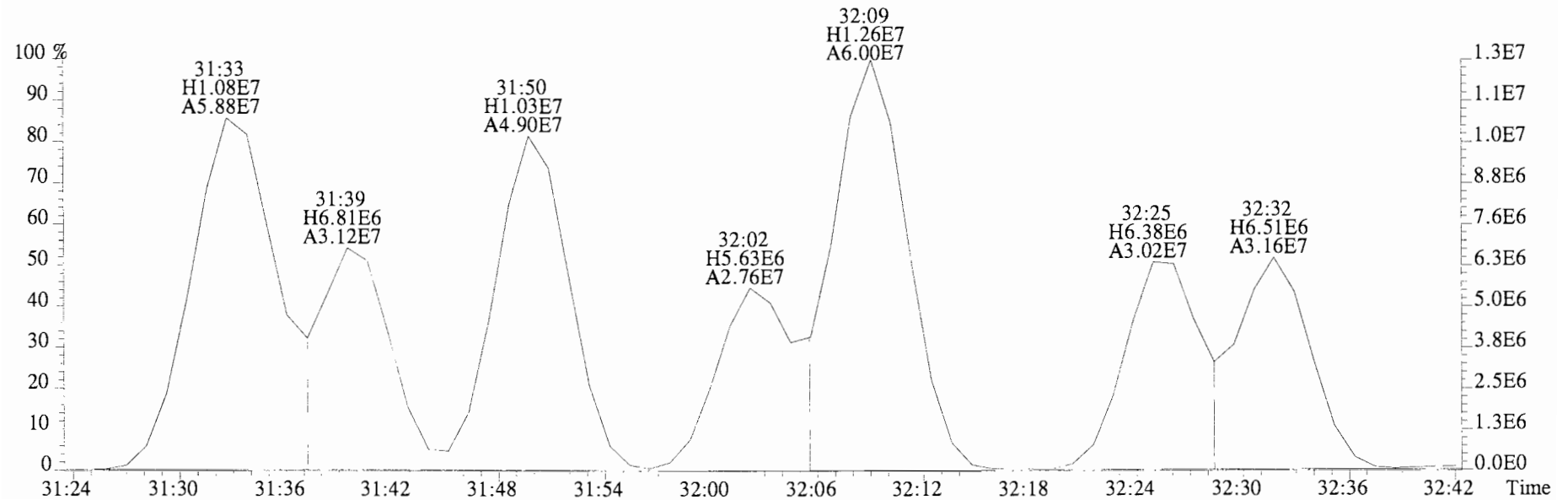
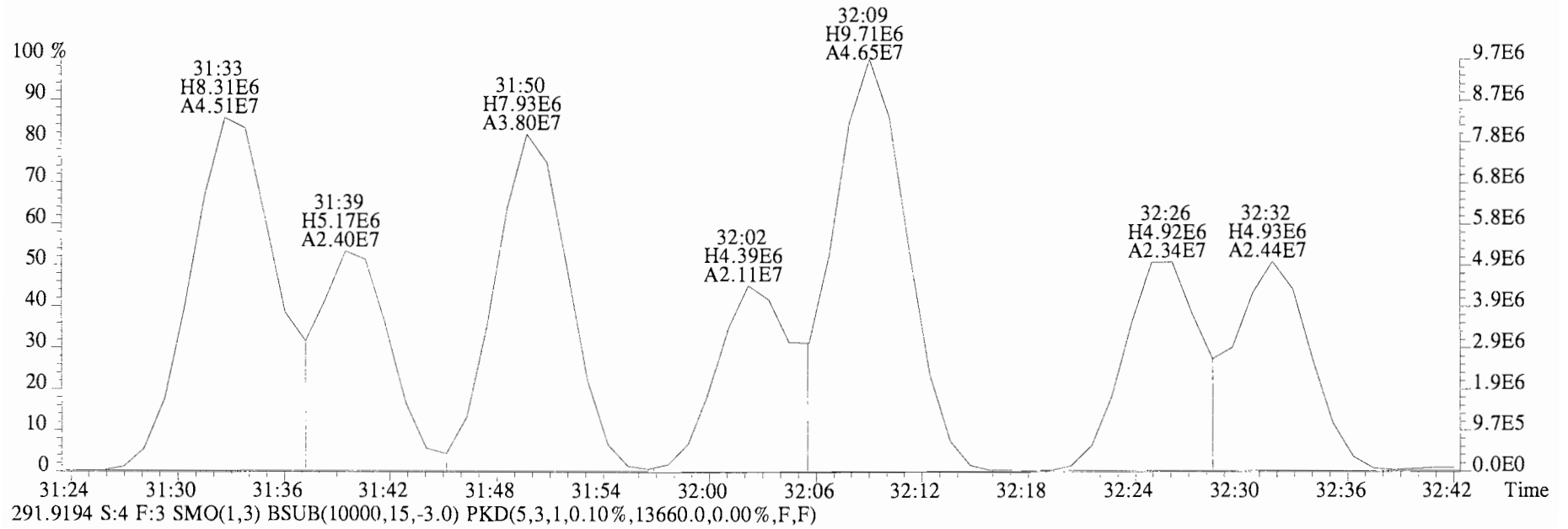
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)



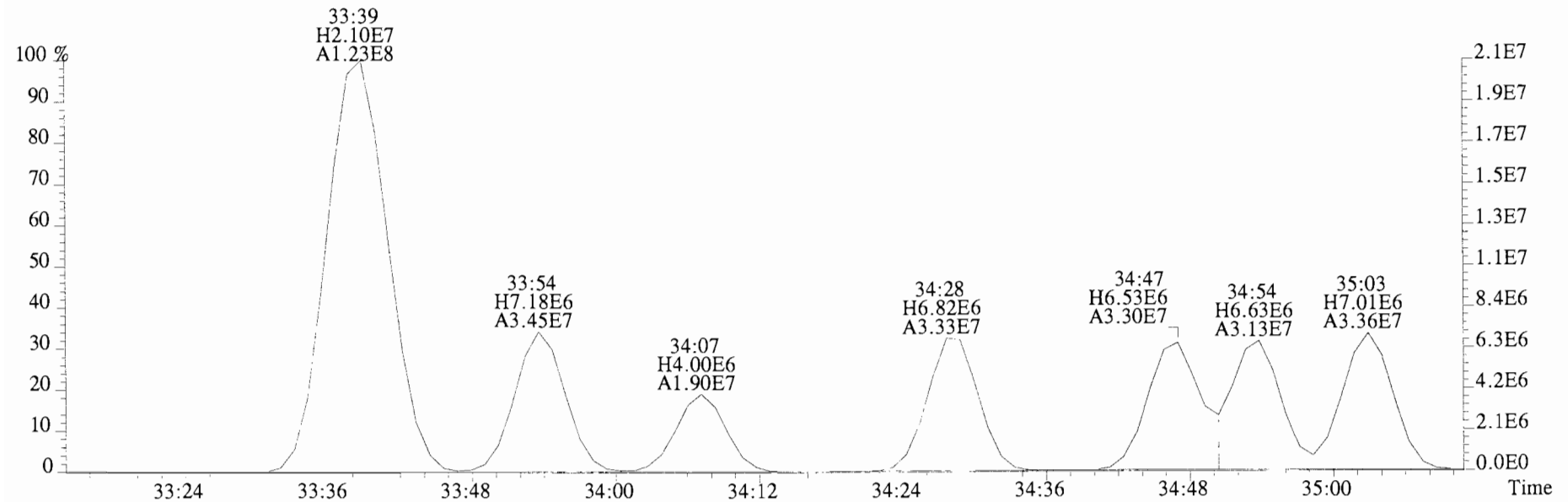
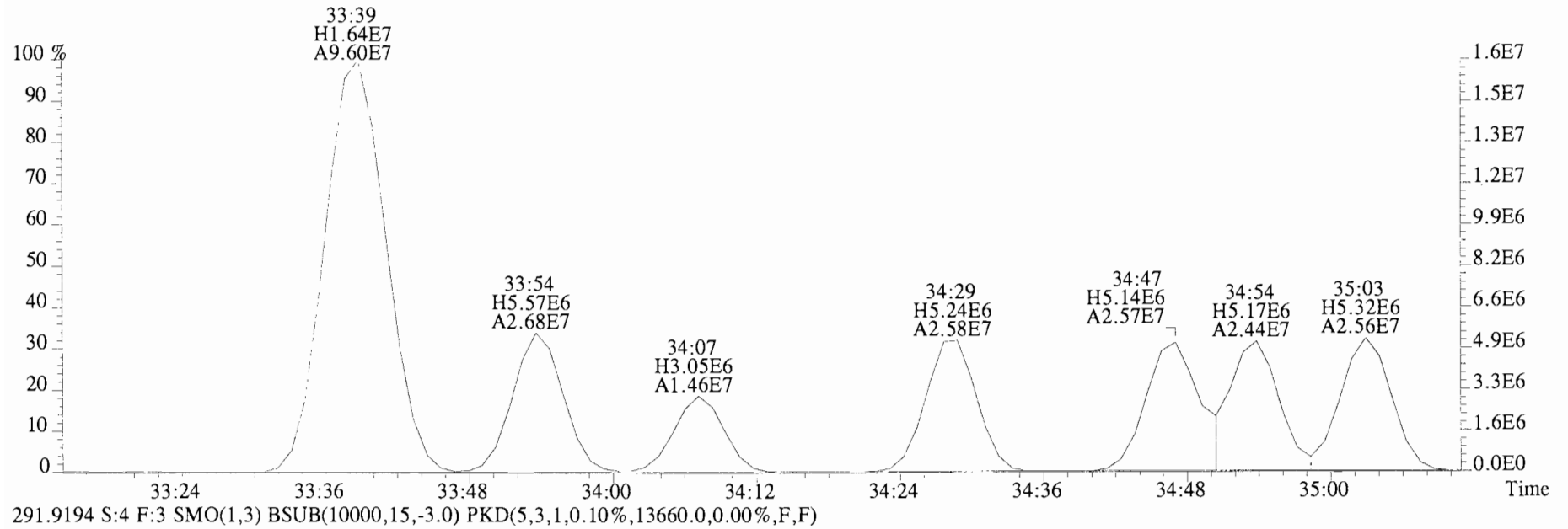
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)



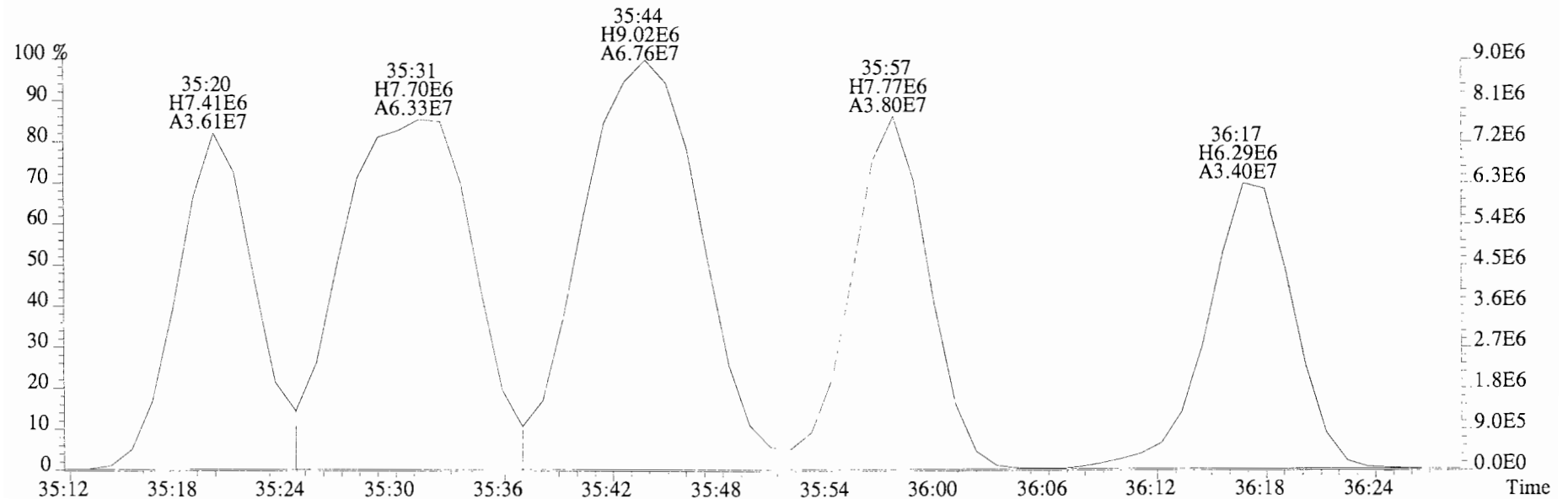
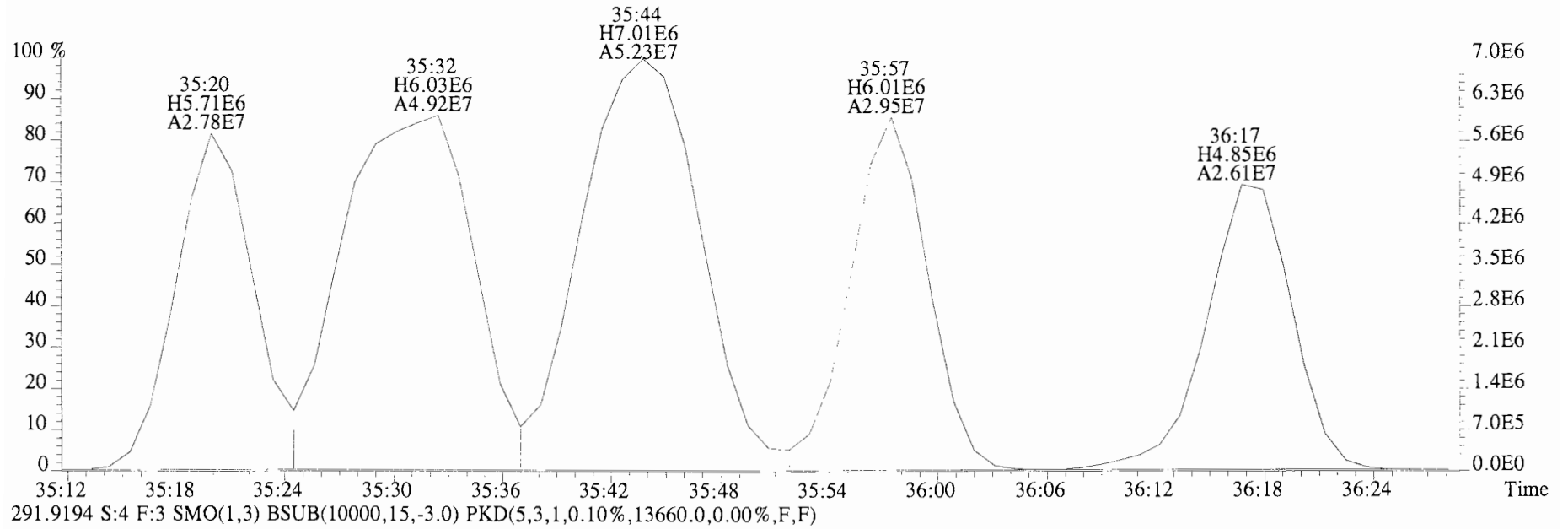
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)

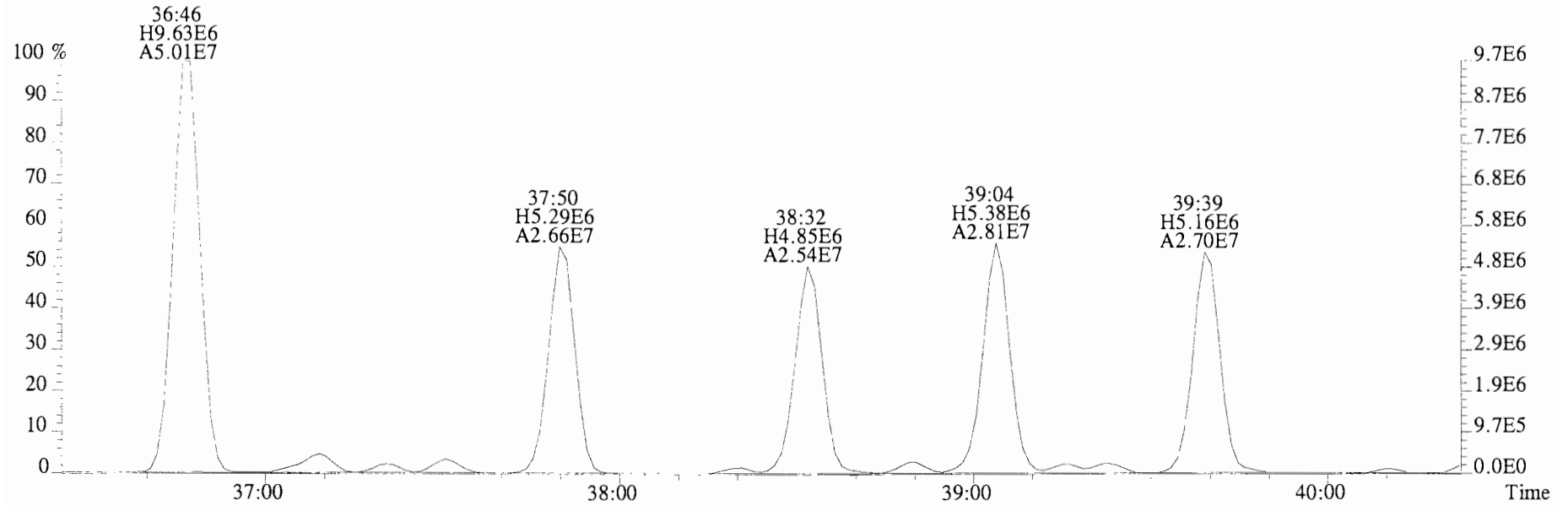


File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)

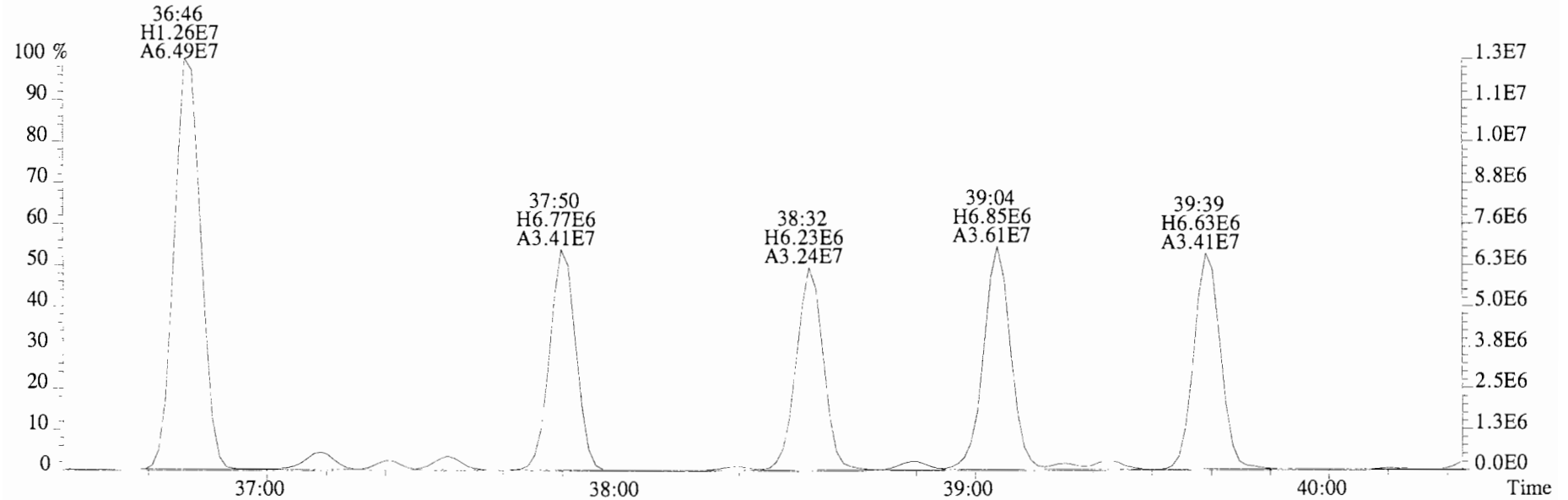




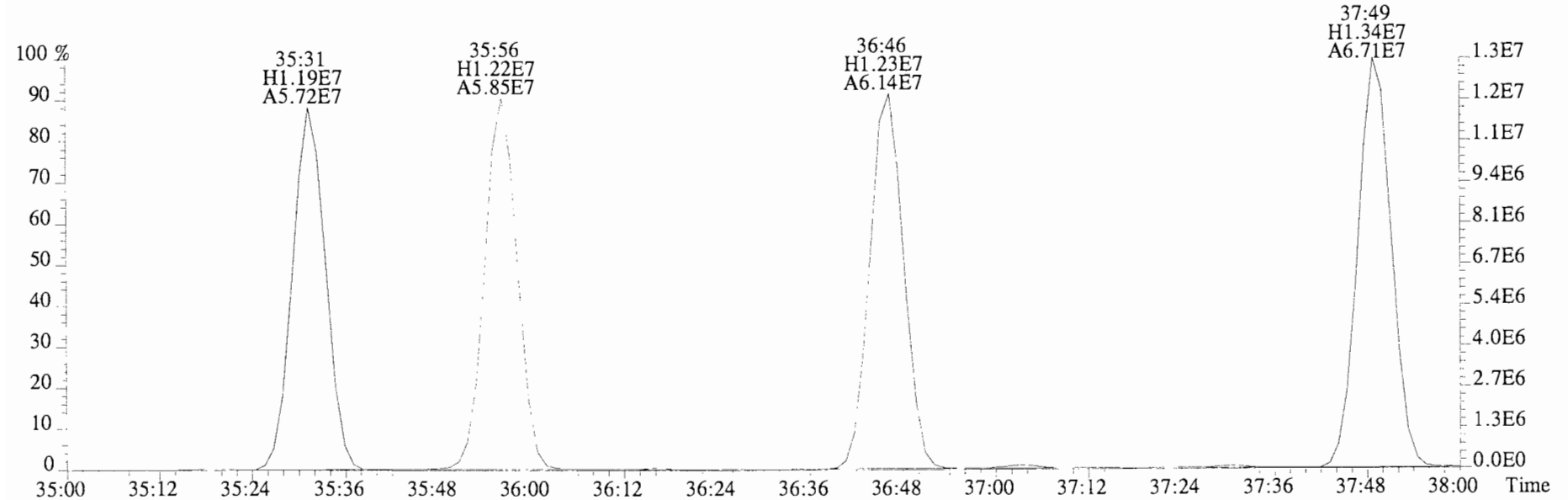
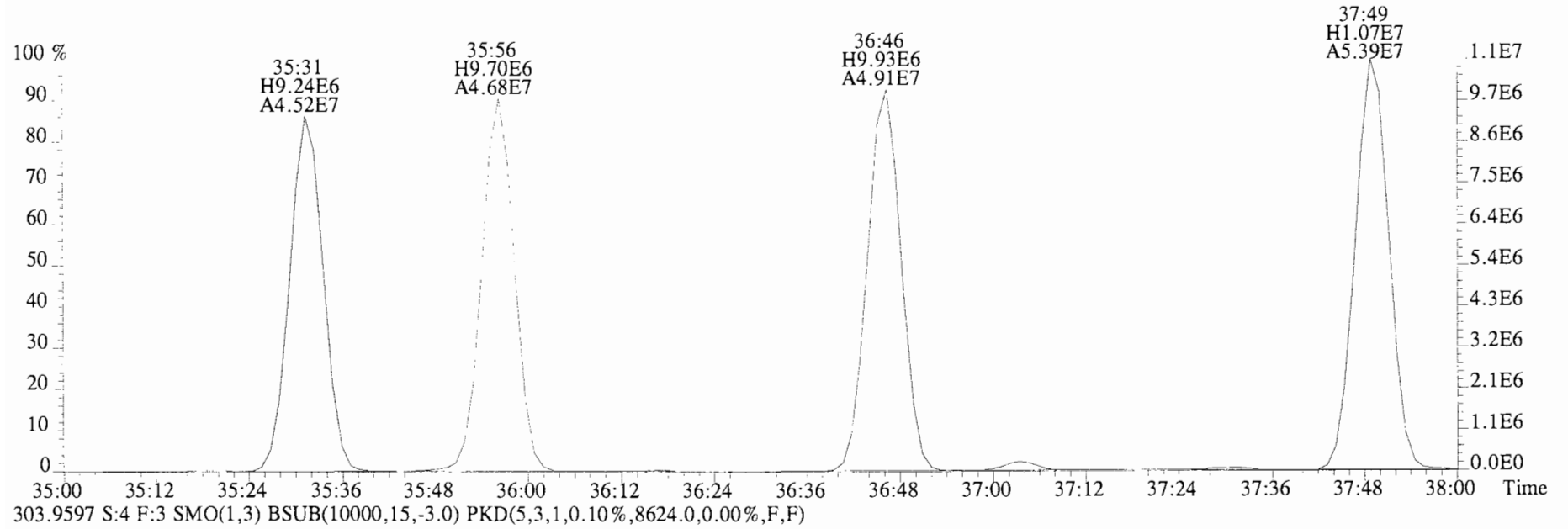
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)



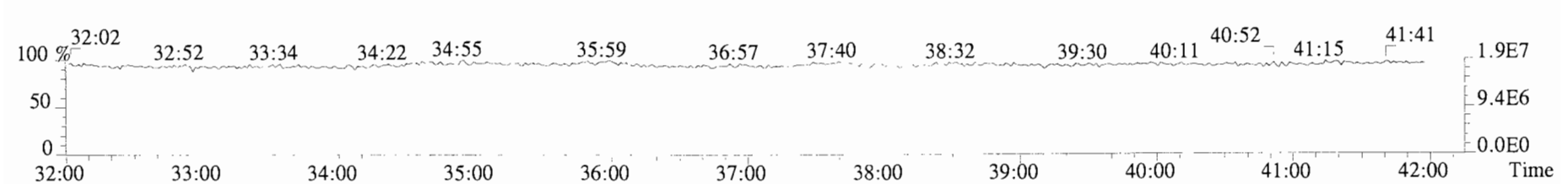
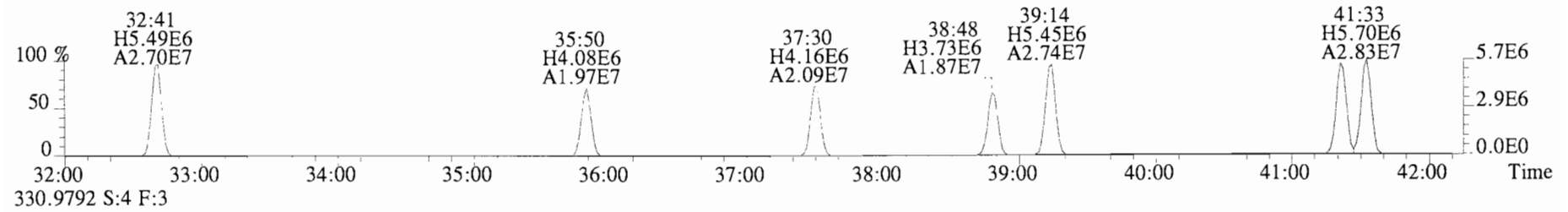
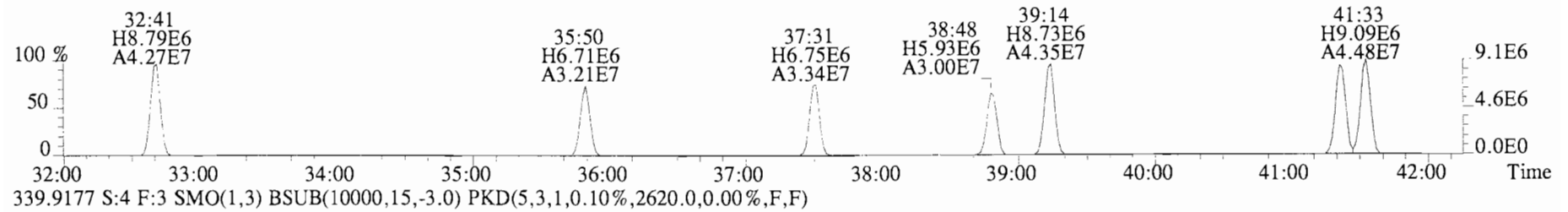
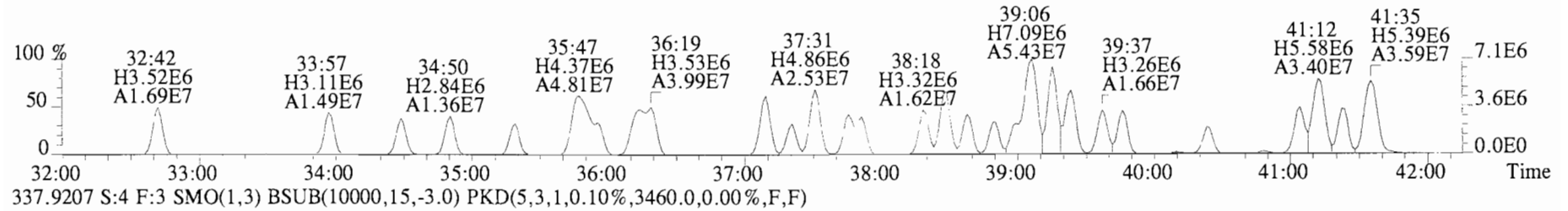
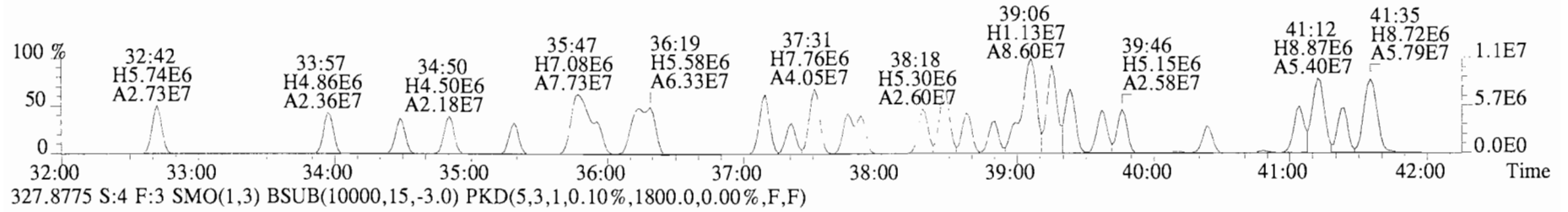
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,13660.0,0.00%,F,F)



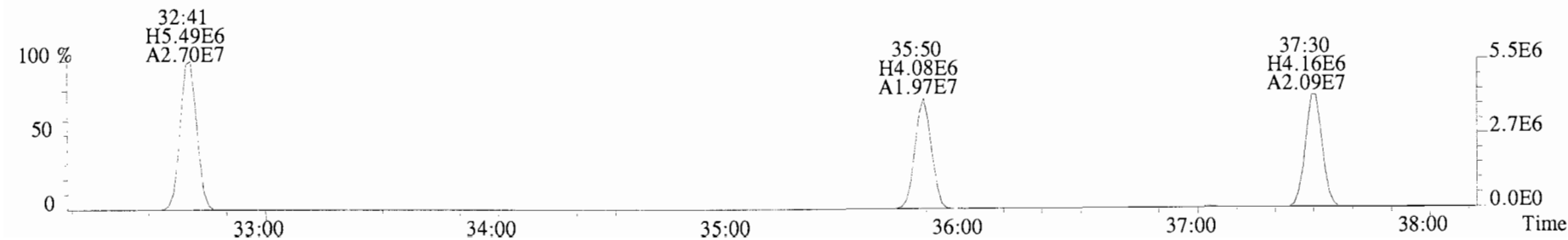
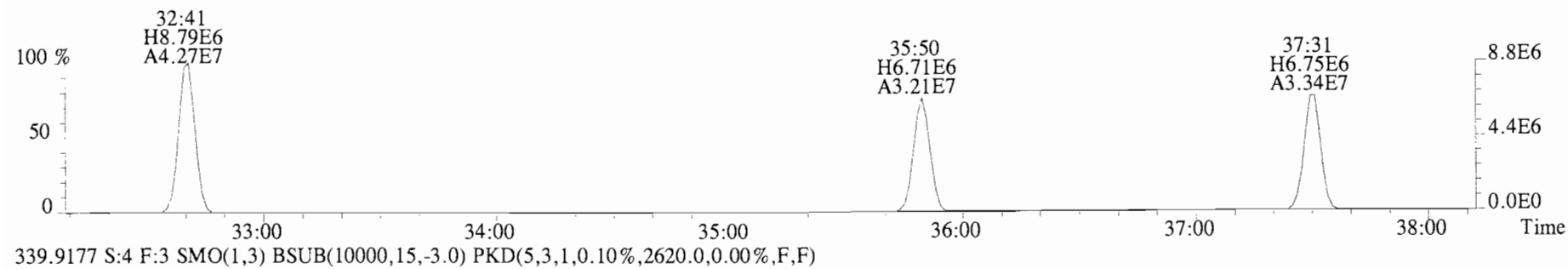
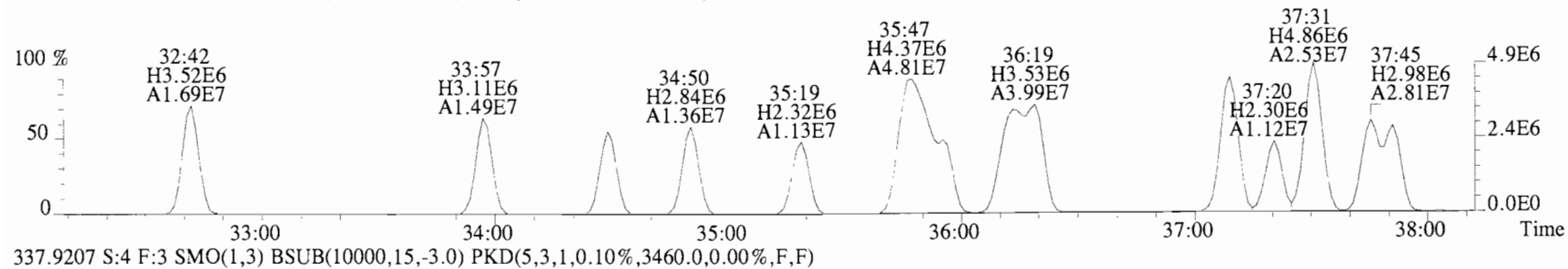
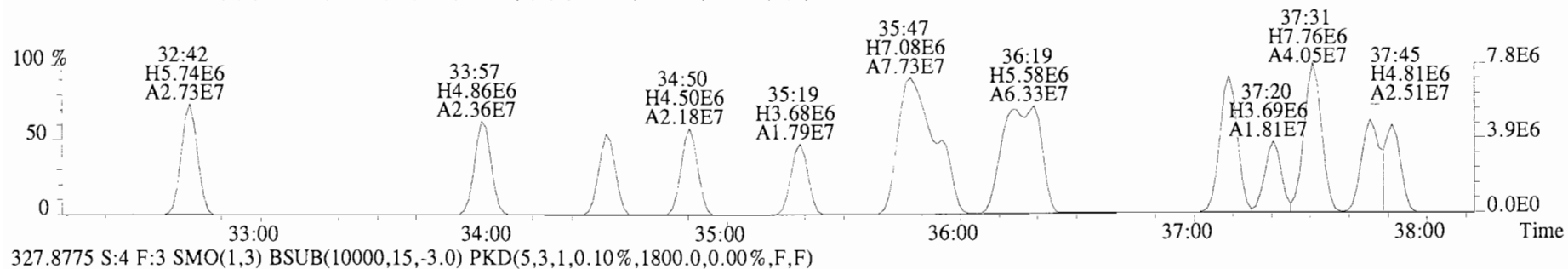
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,8552.0,0.00%,F,F)



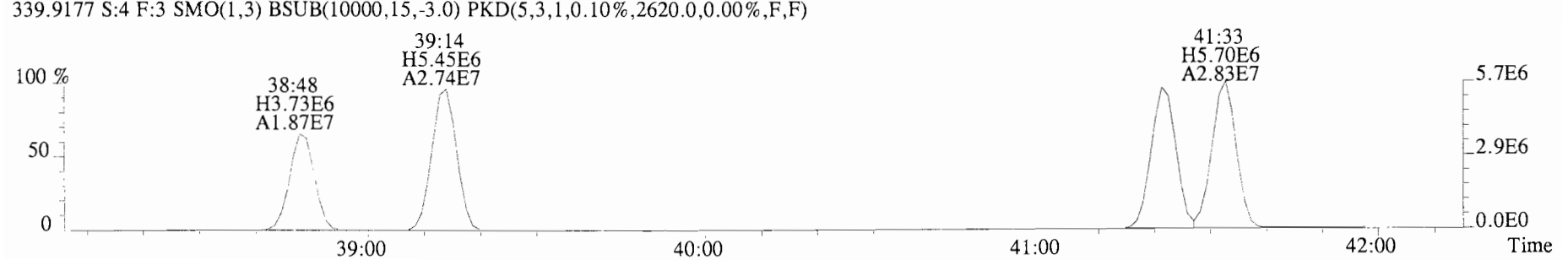
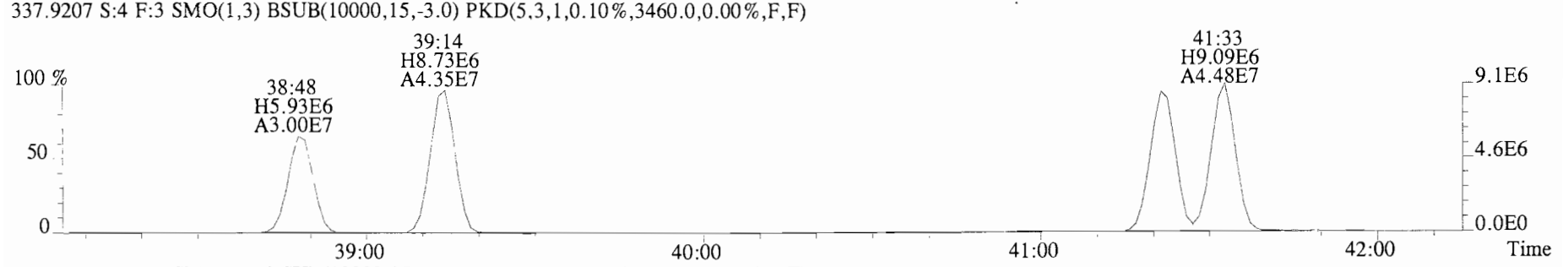
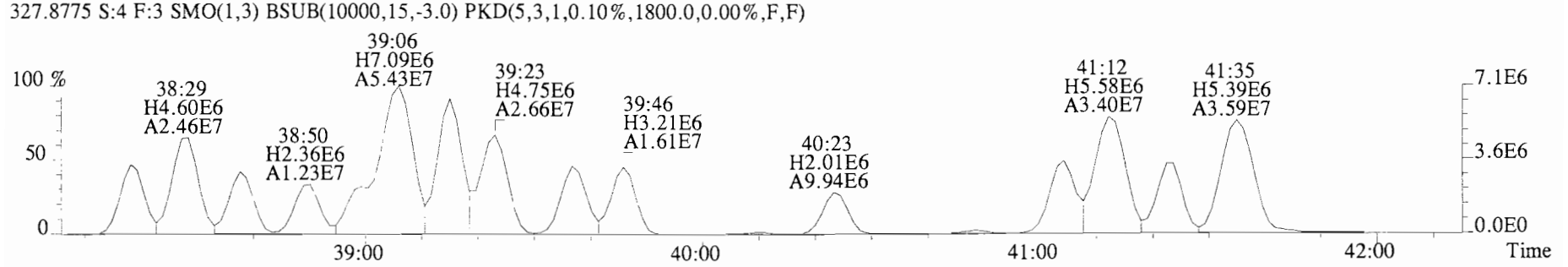
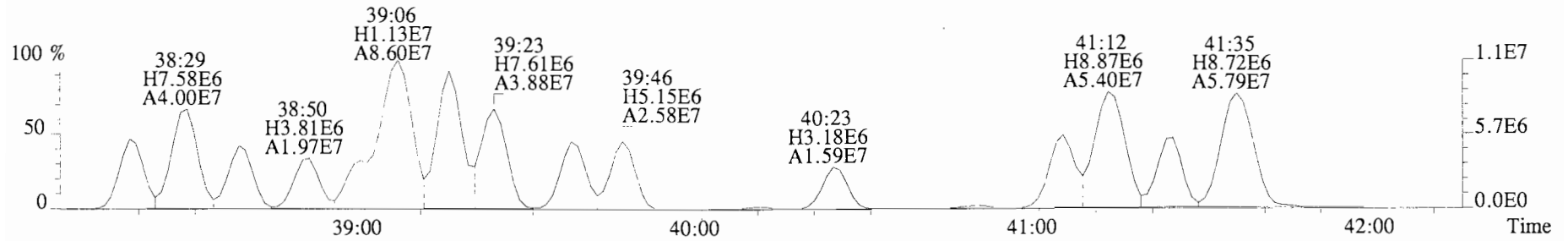
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)



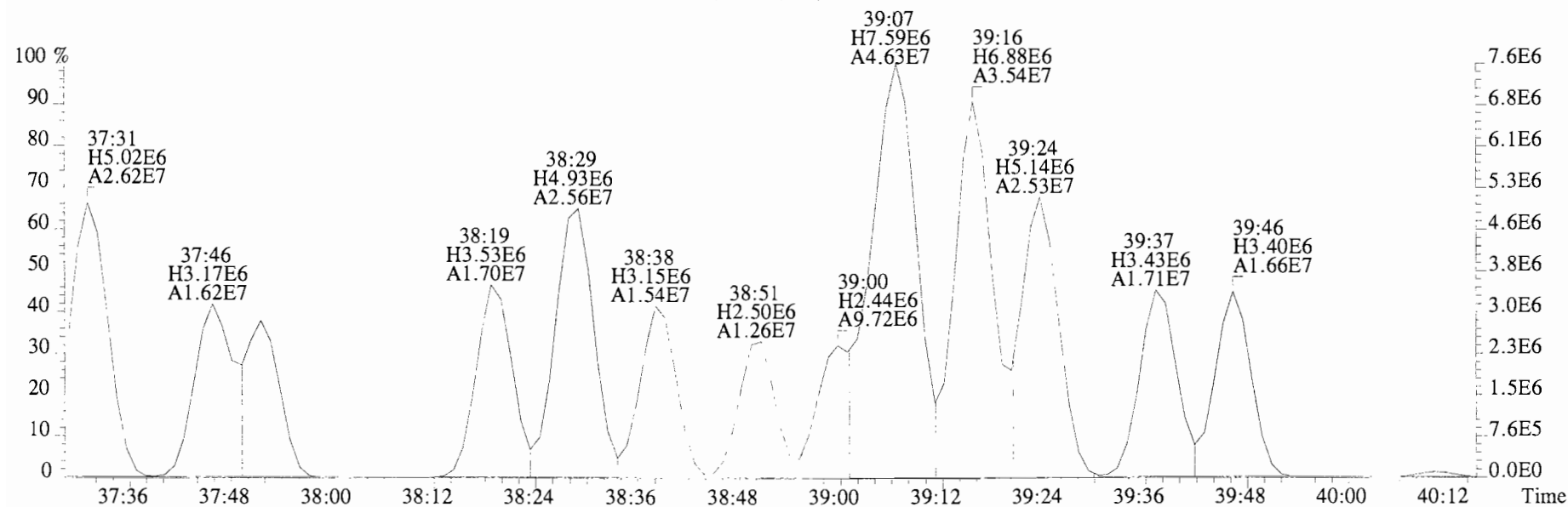
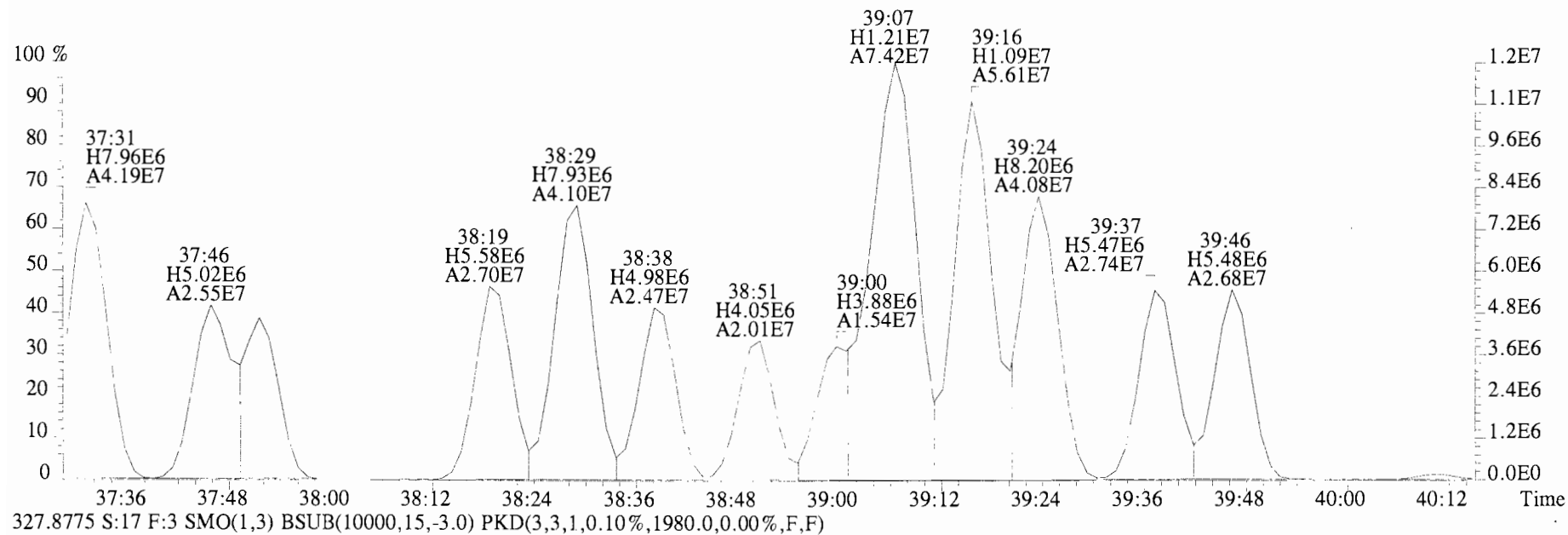
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)



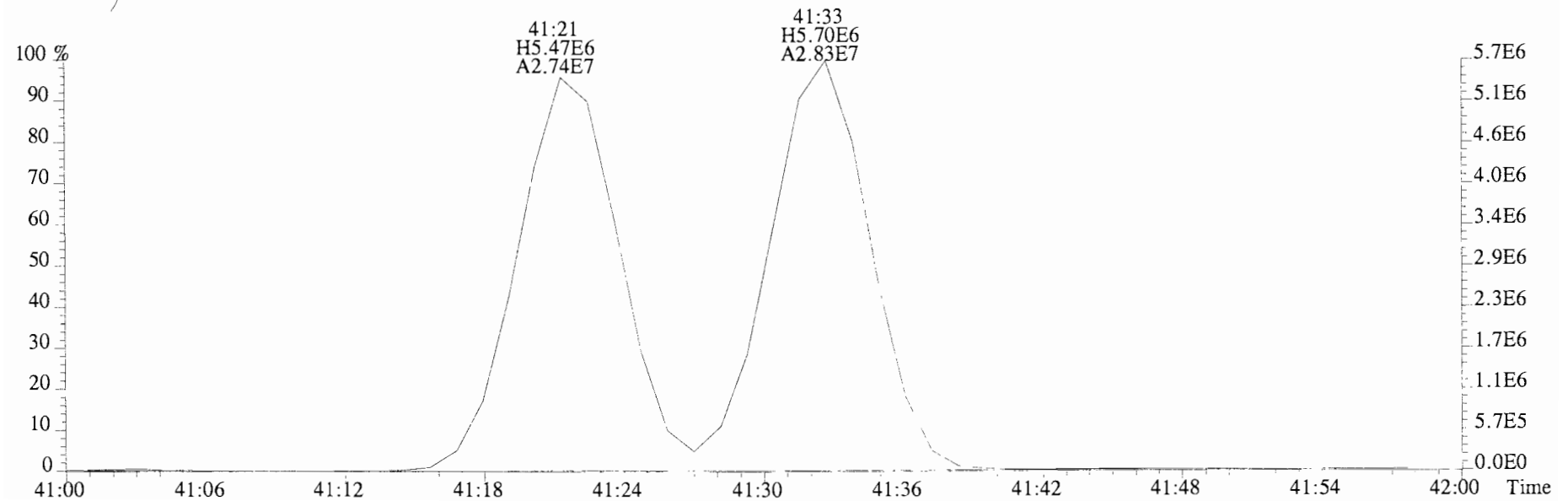
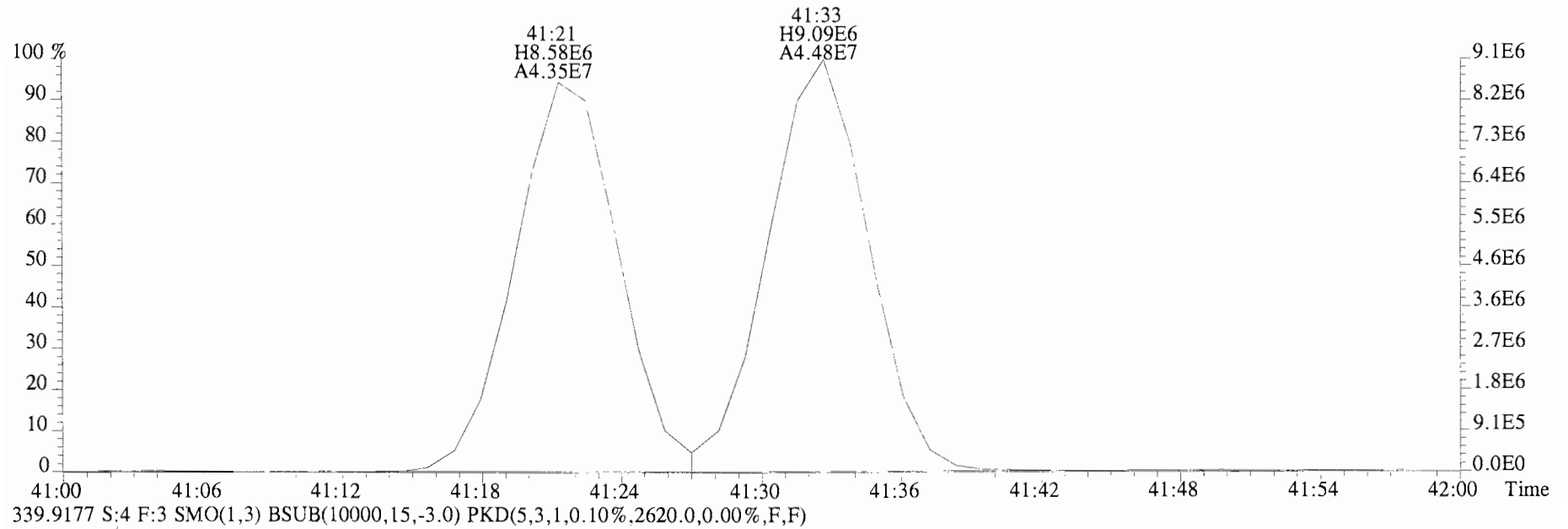
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)



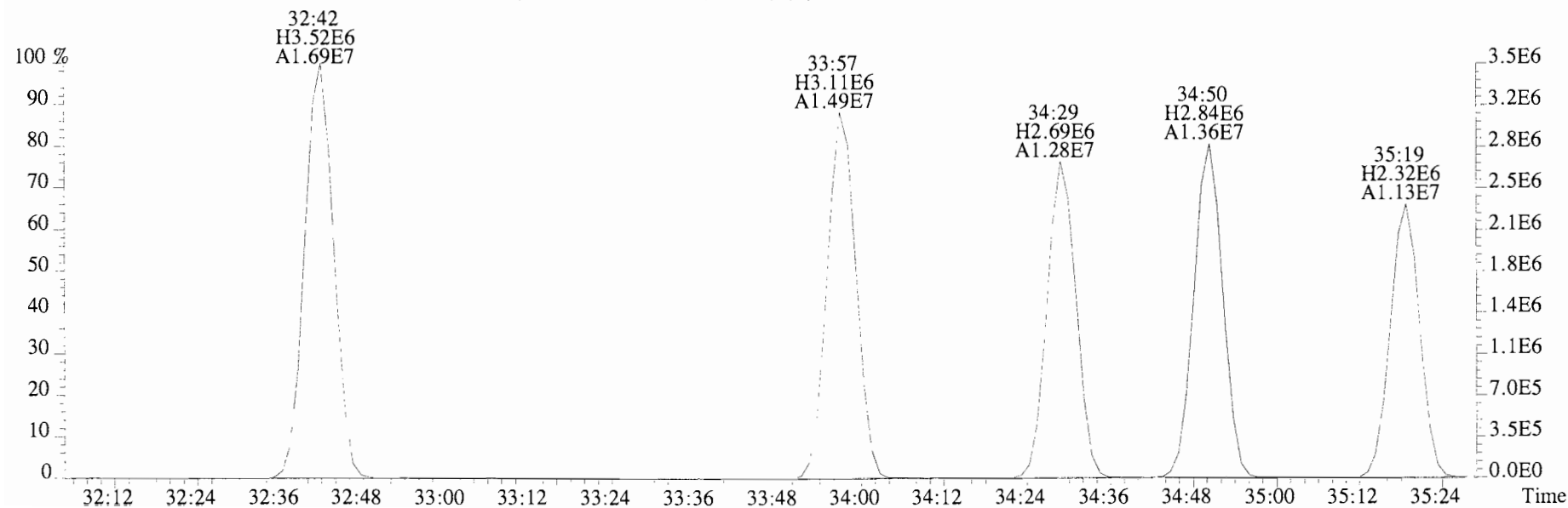
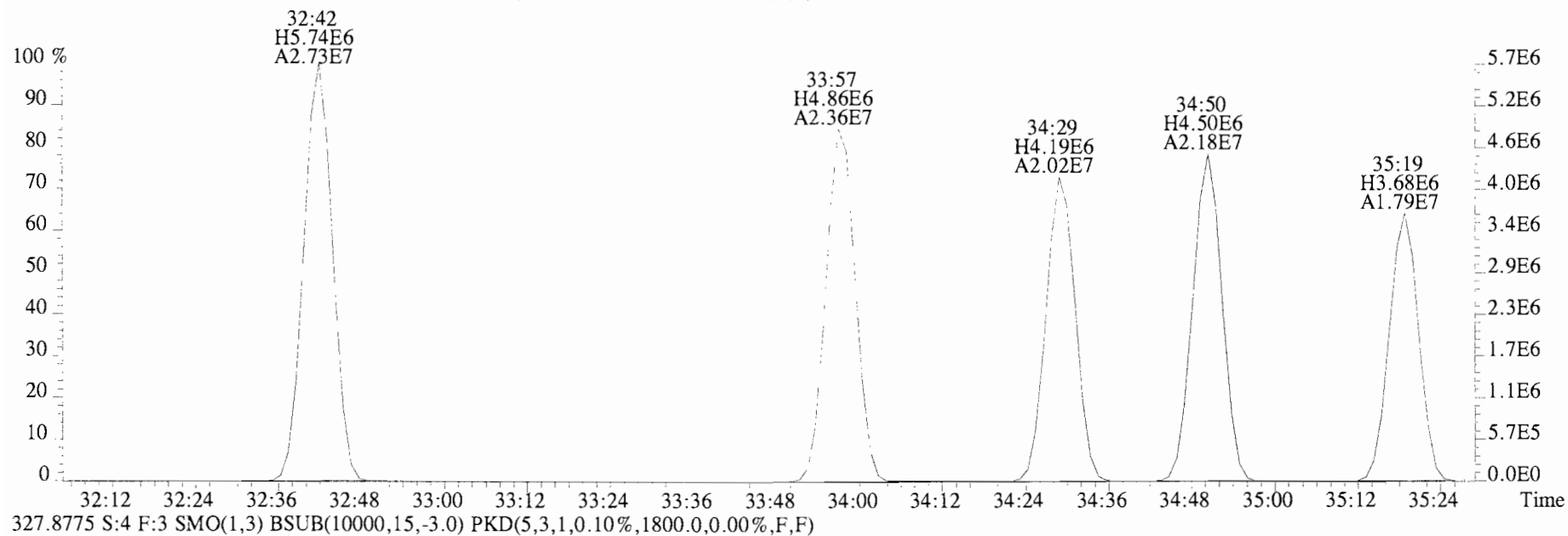
File:140620E1 #1-767 Acq:21-JUN-2014 01:33:10 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#17 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-8 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 S:17 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3460.0,0.00%,F,F)

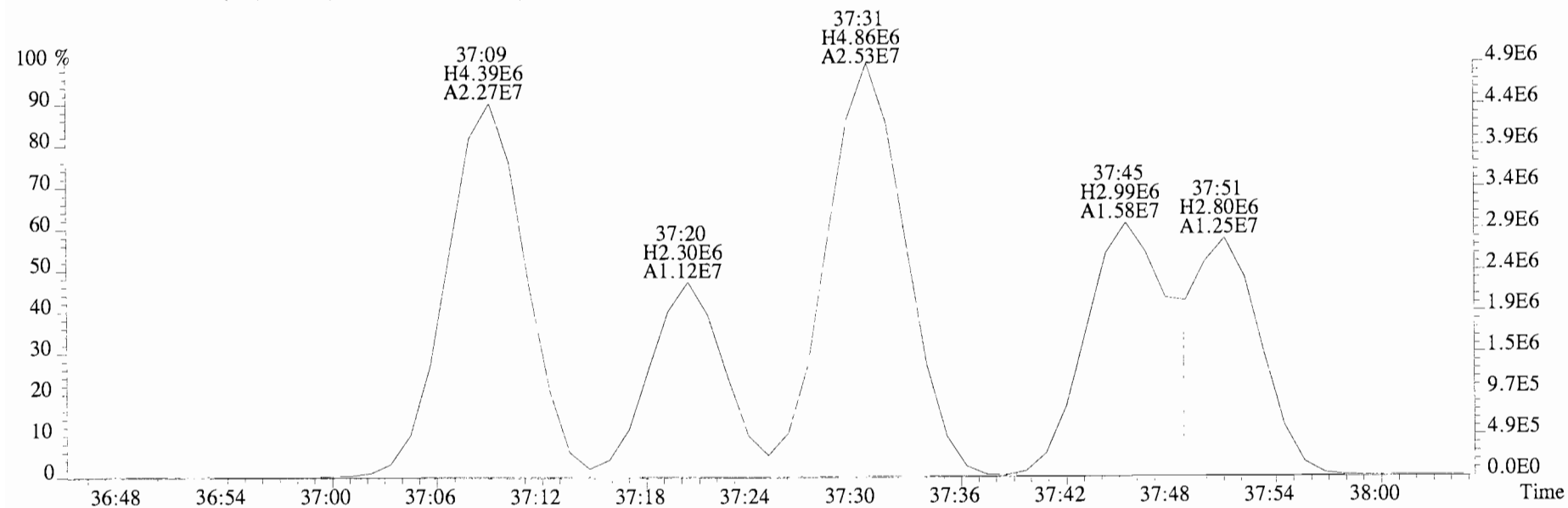
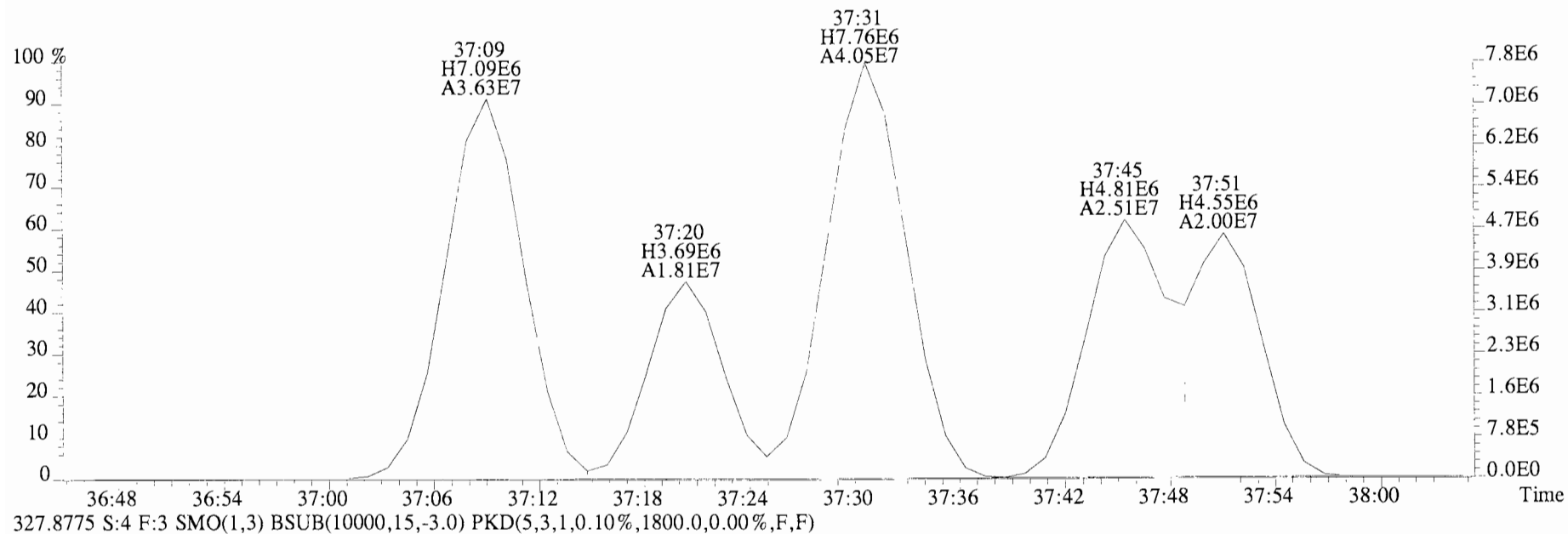


File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)

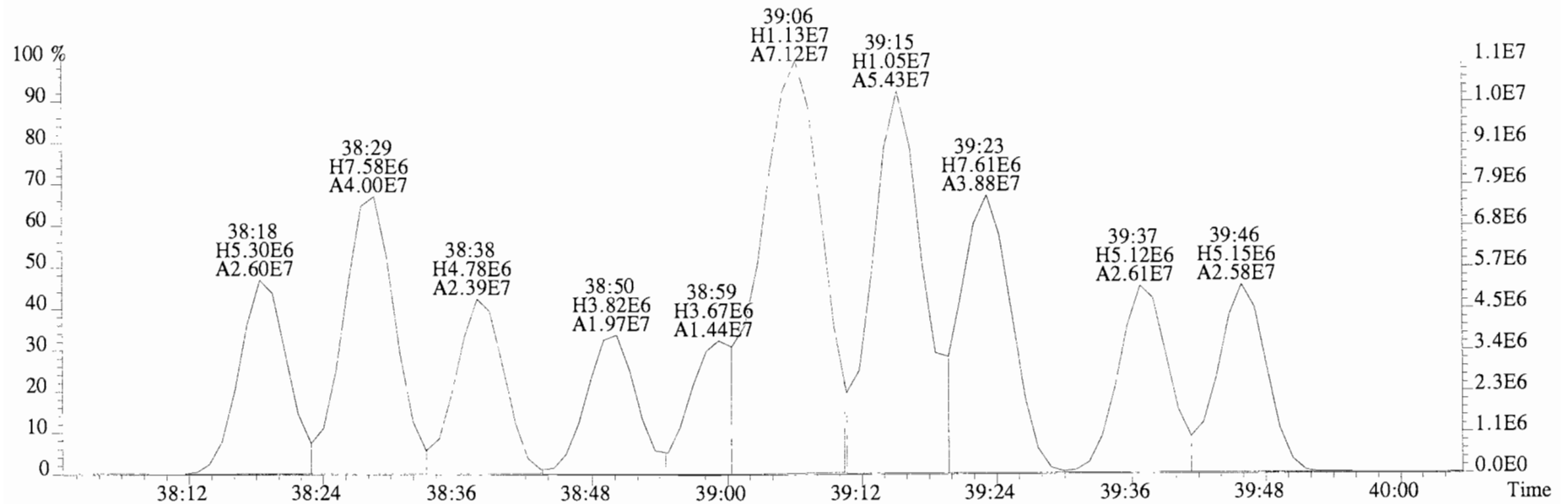




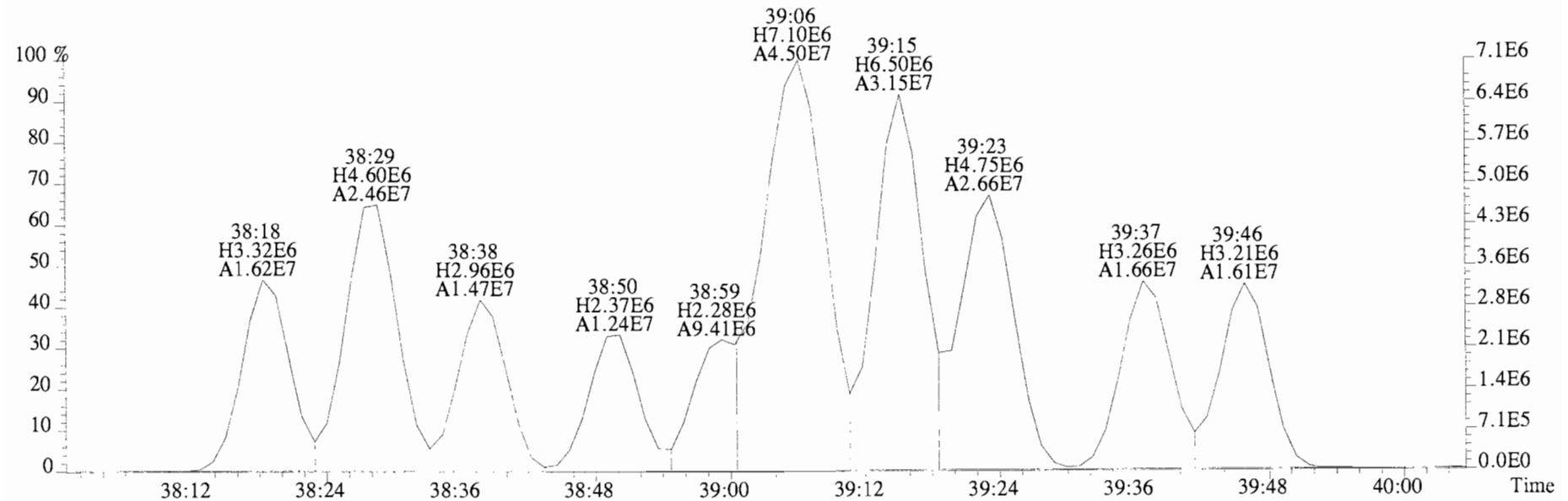
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)



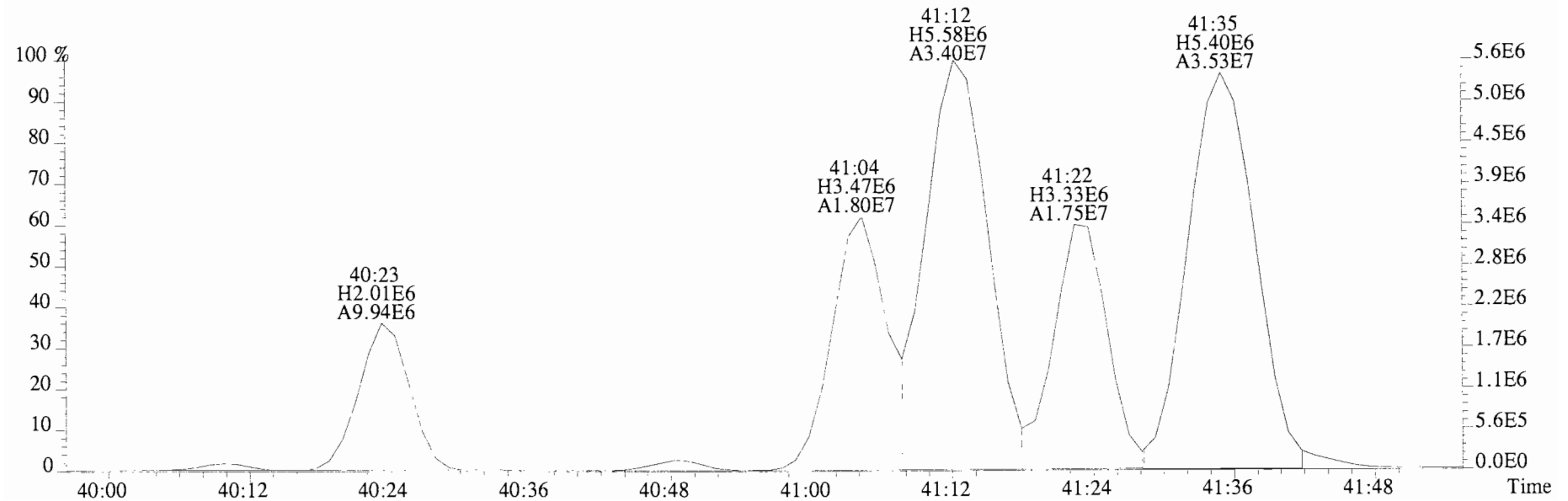
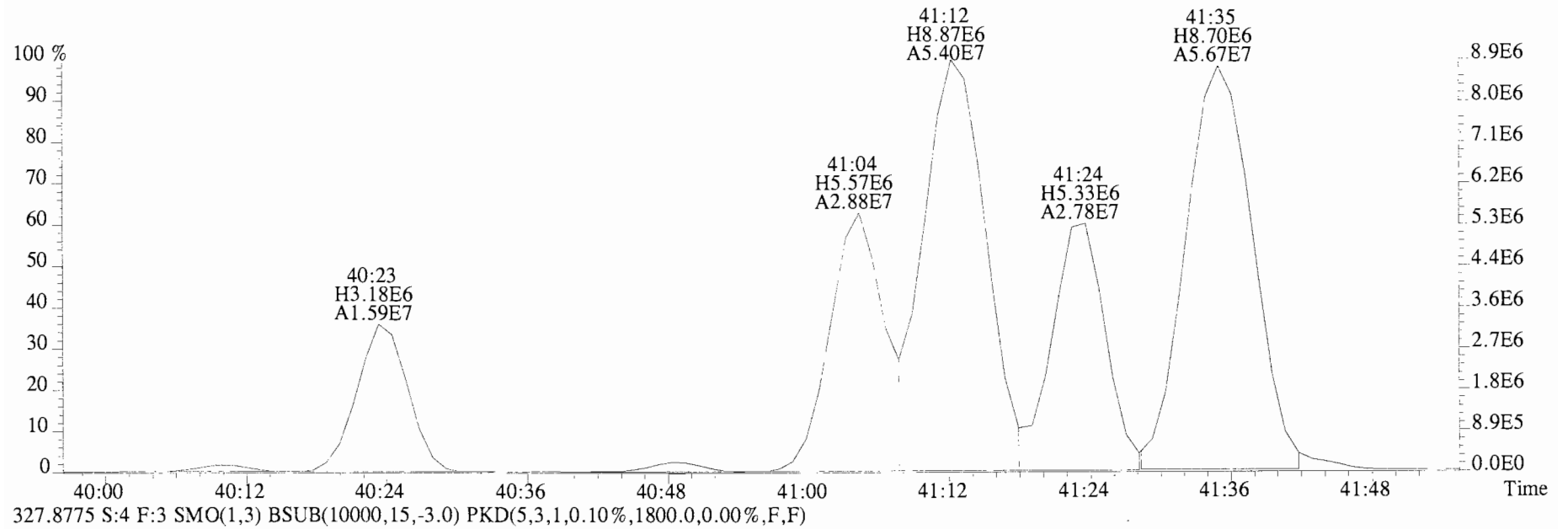
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)



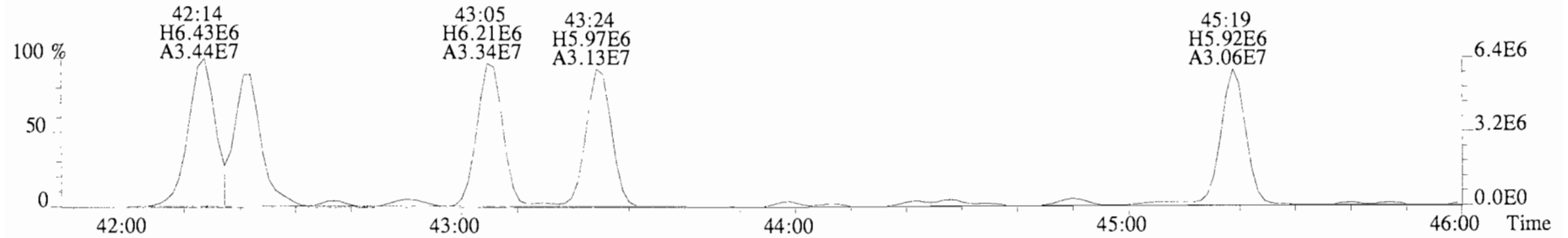
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1800.0,0.00%,F,F)



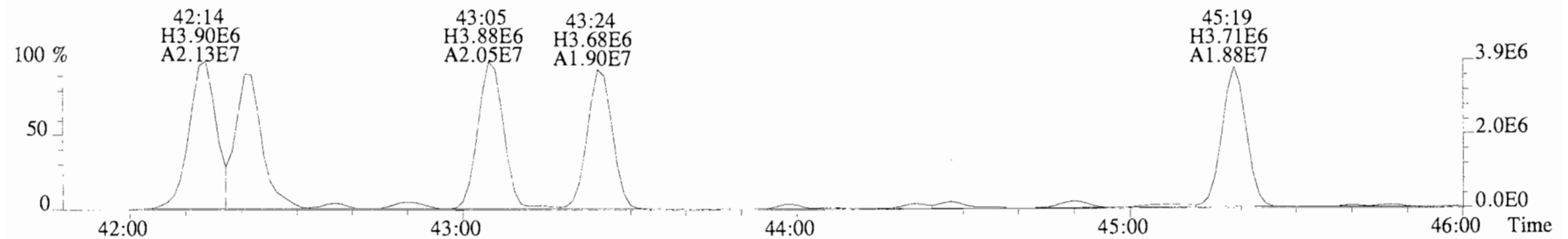
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1204.0,0.00%,F,F)



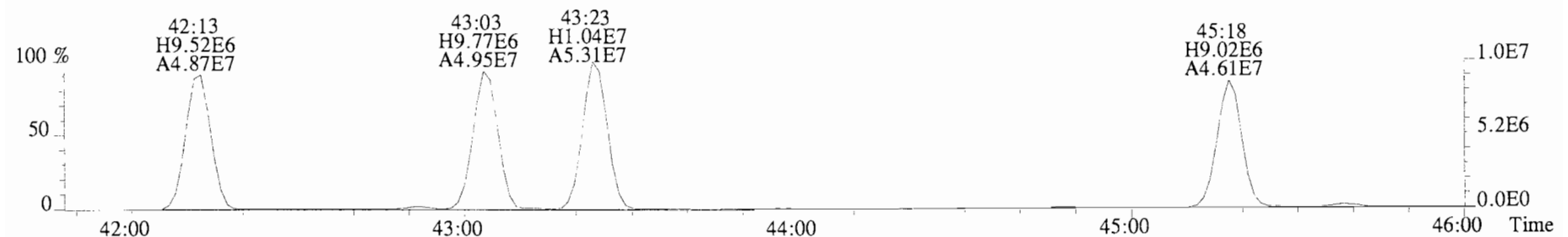
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10012.0,0.00%,F,F)



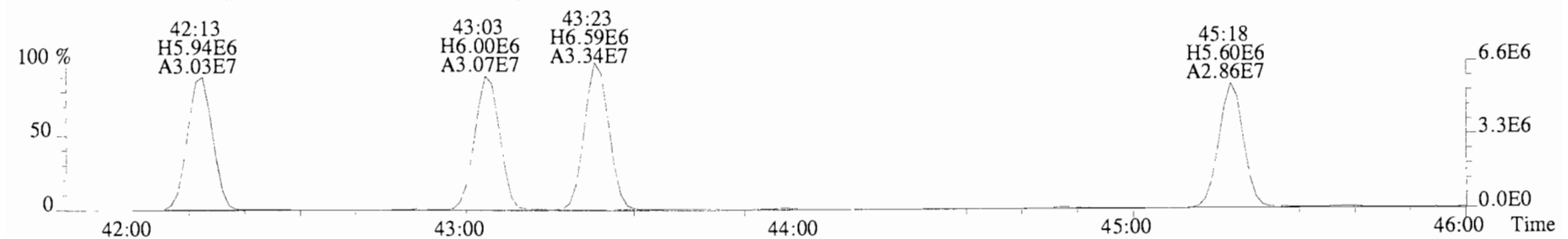
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9844.0,0.00%,F,F)



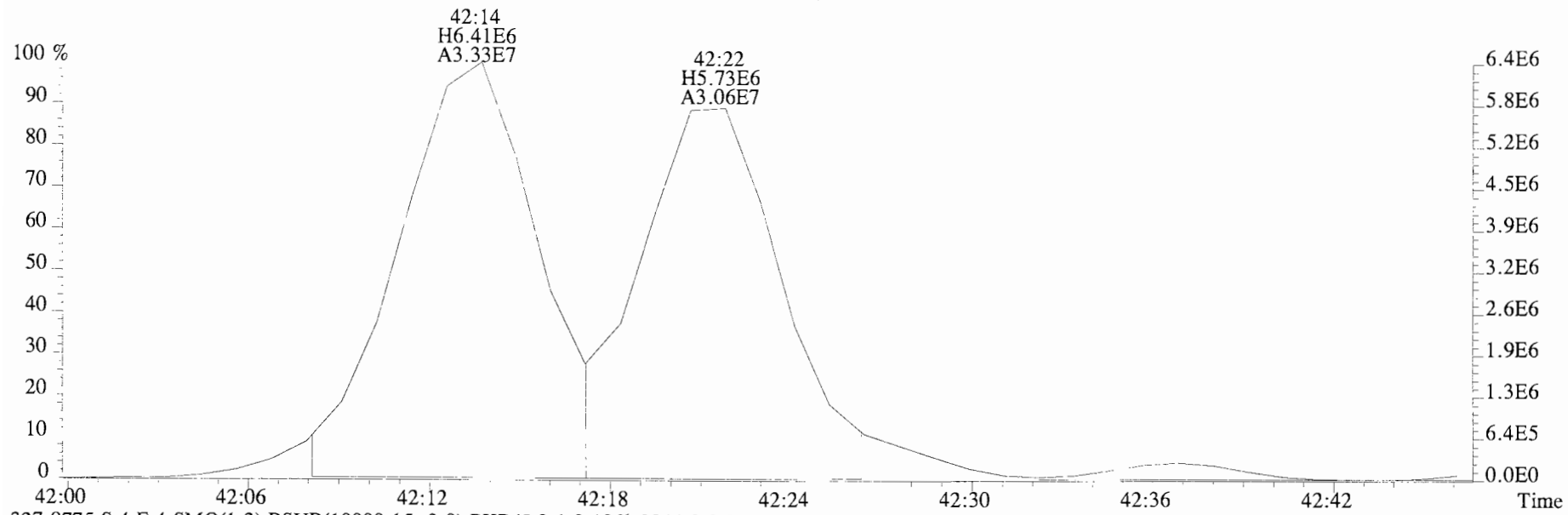
337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10532.0,0.00%,F,F)



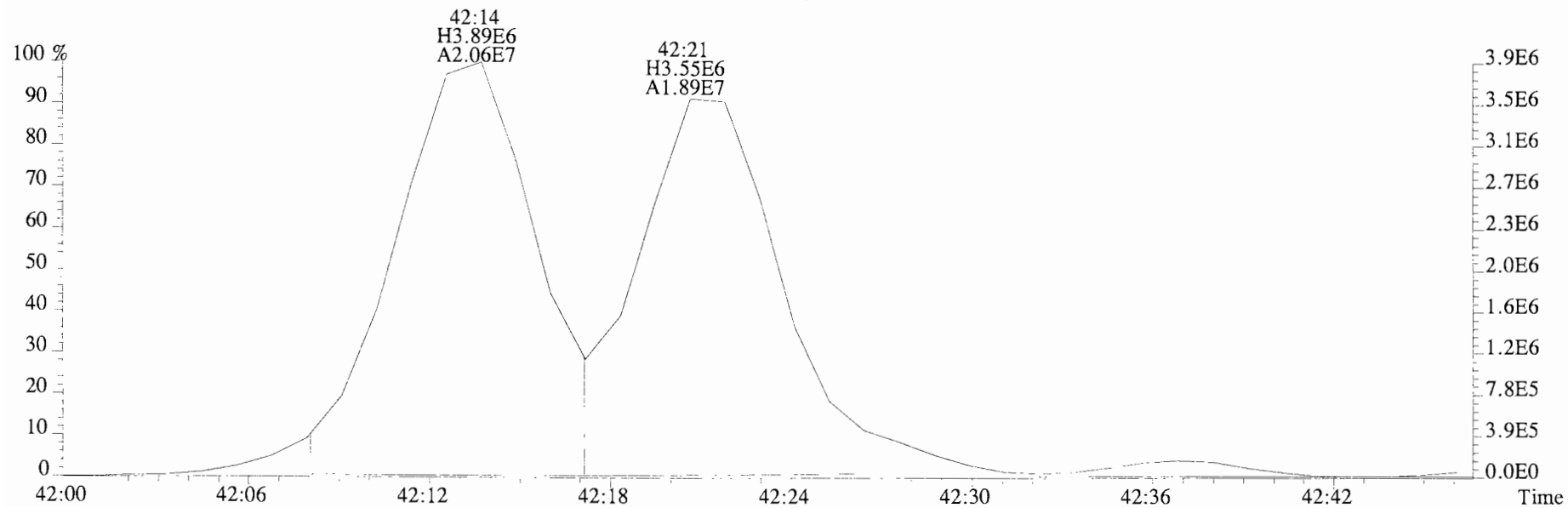
339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,6224.0,0.00%,F,F)



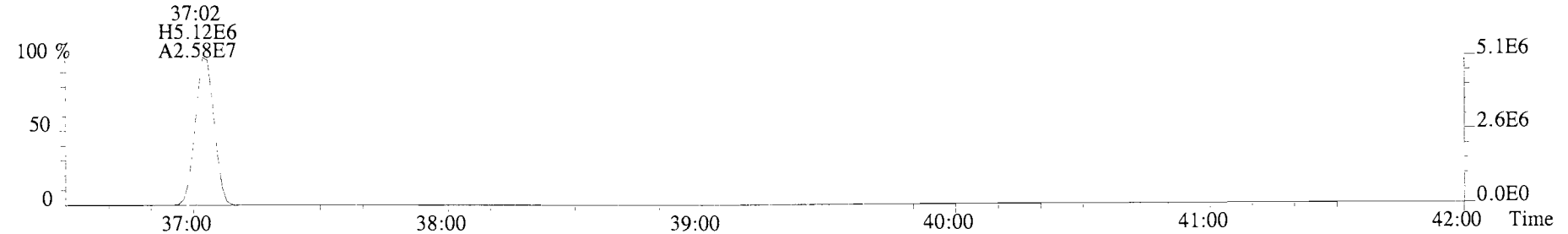
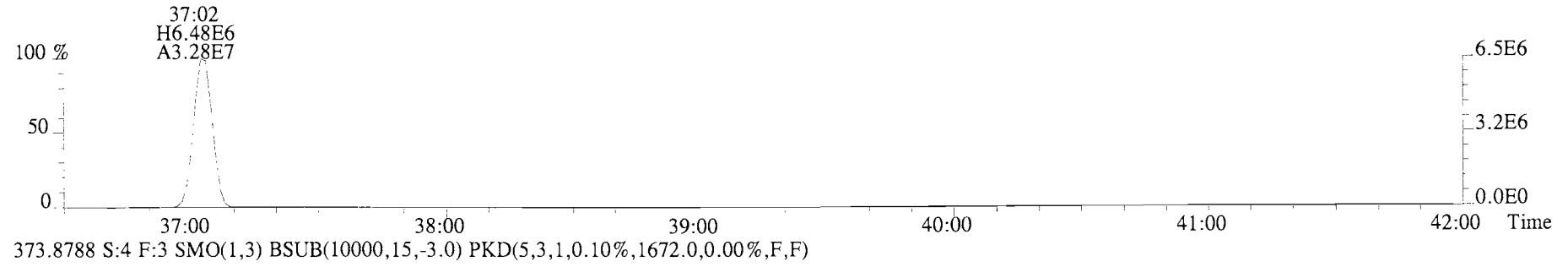
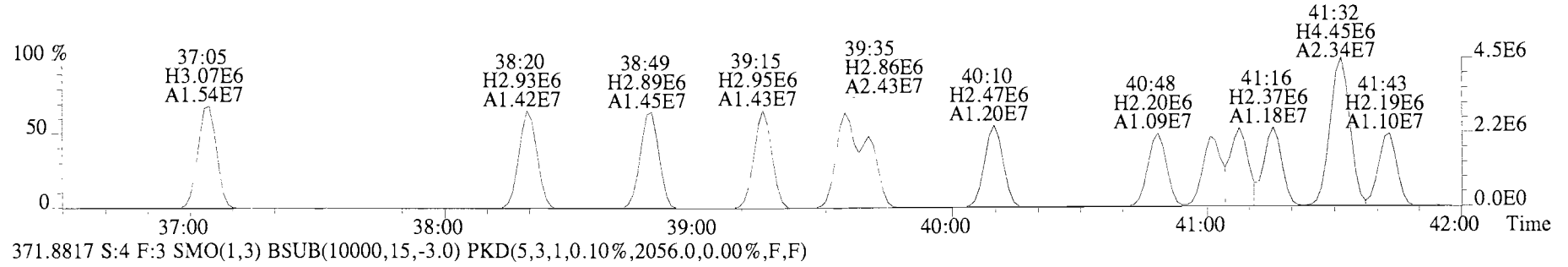
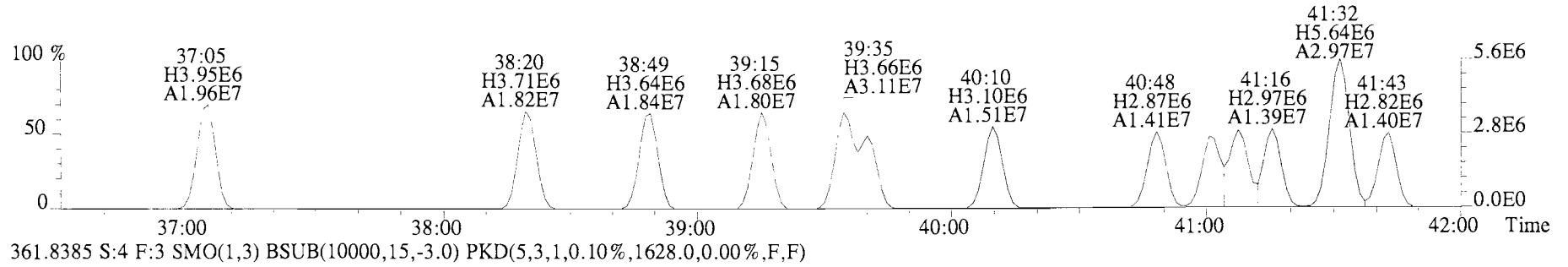
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10012.0,0.00%,F,F)



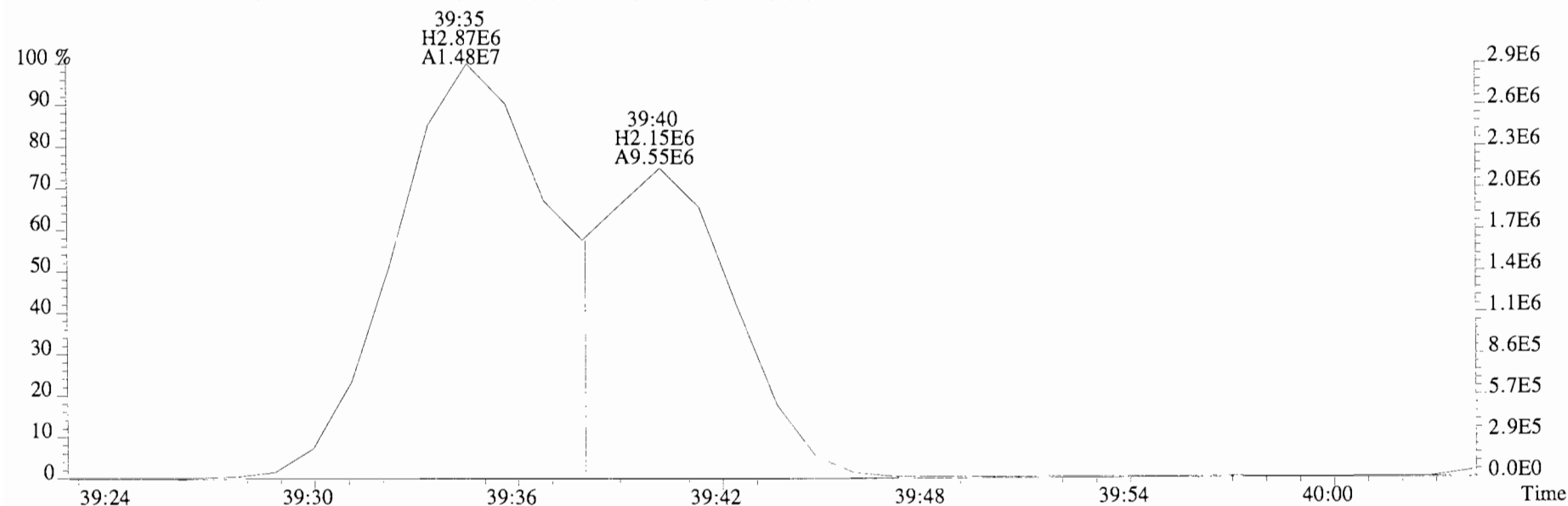
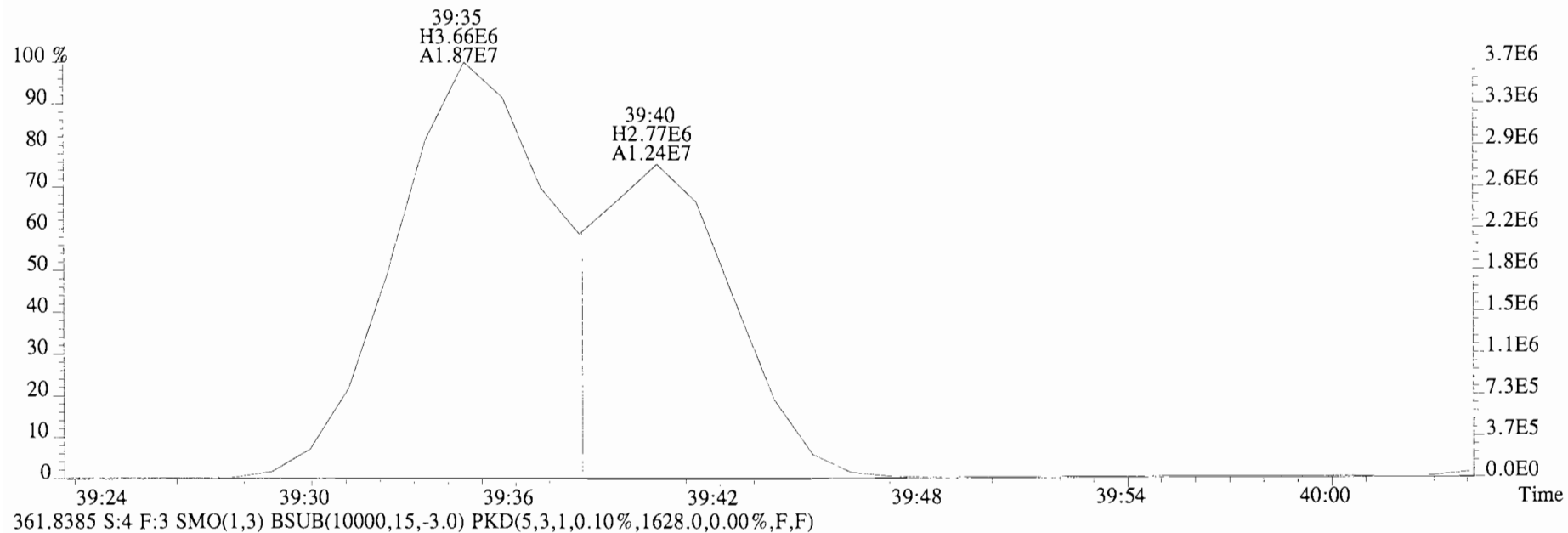
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9844.0,0.00%,F,F)



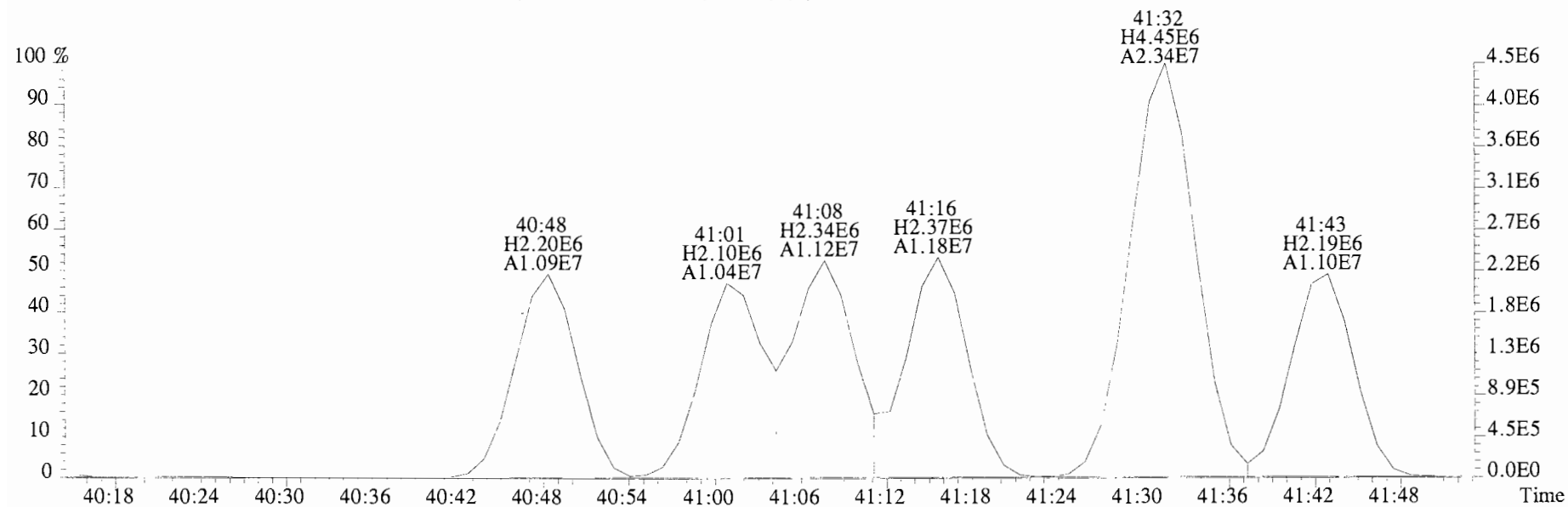
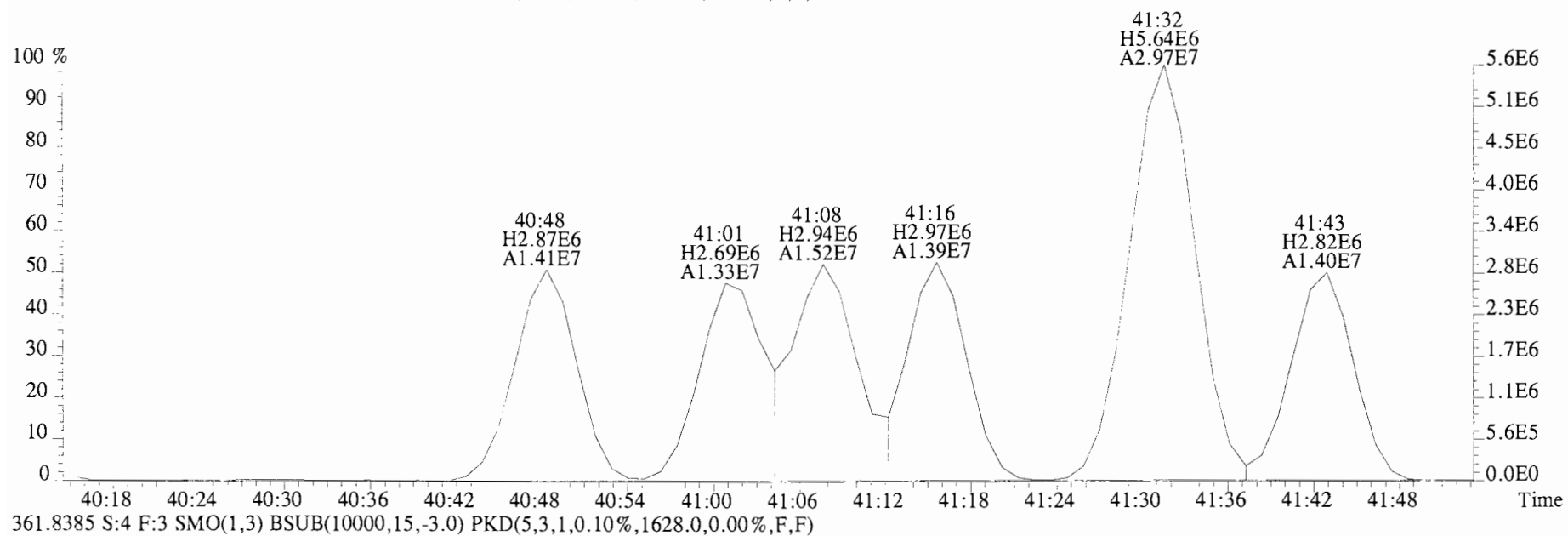
File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1472.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1472.0,0.00%,F,F)

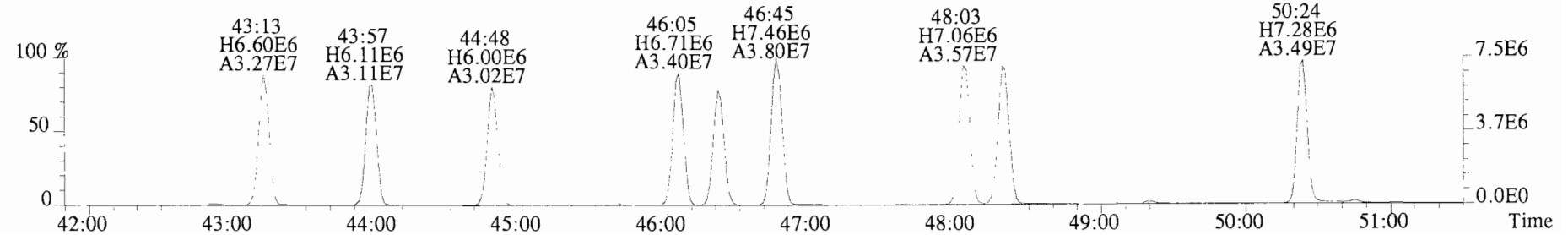
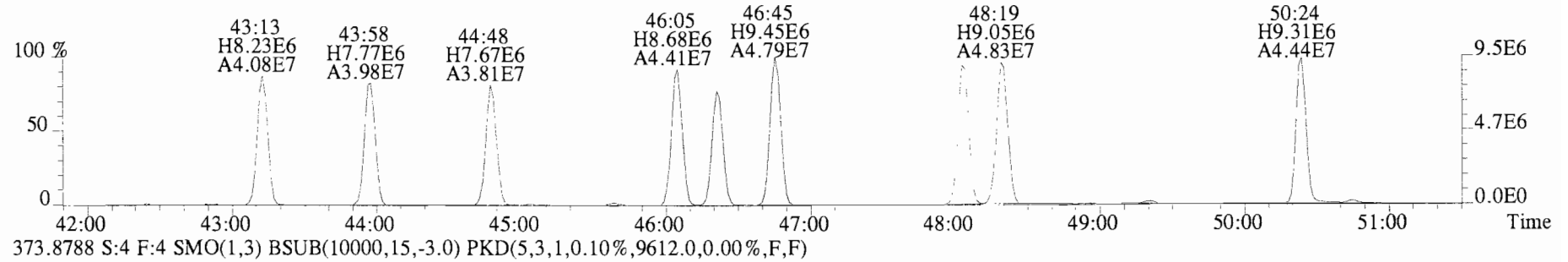
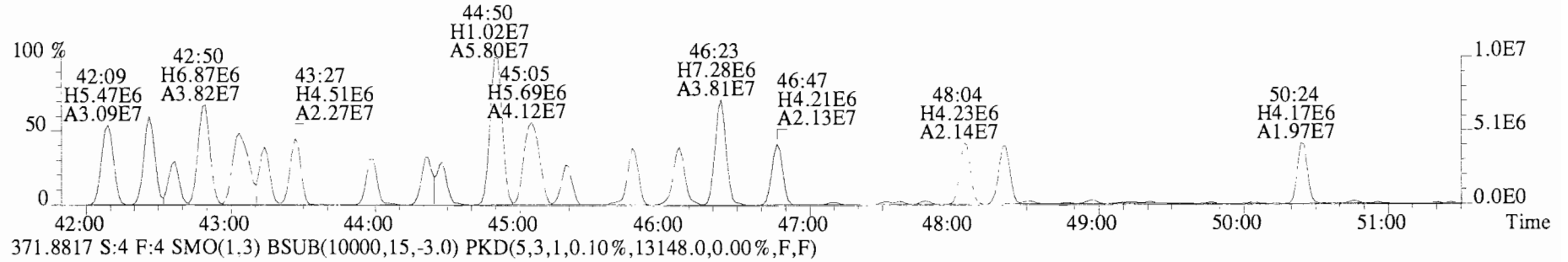
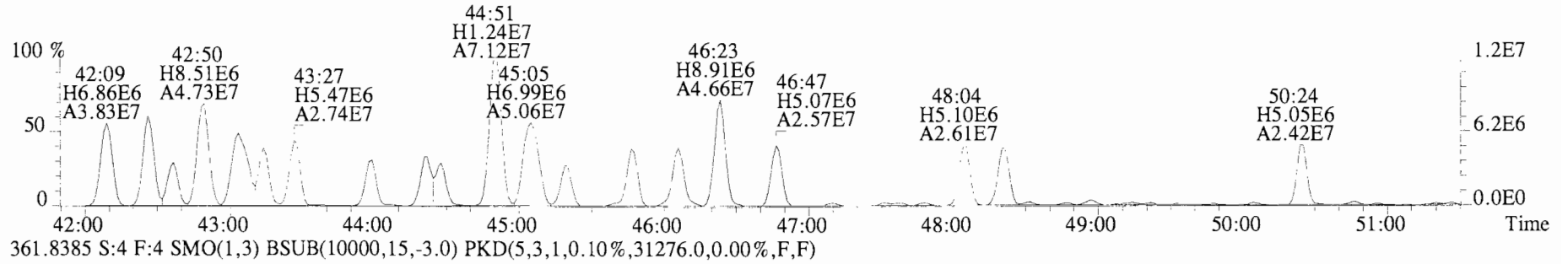


File:140620E1 #1-767 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1472.0,0.00%,F,F)

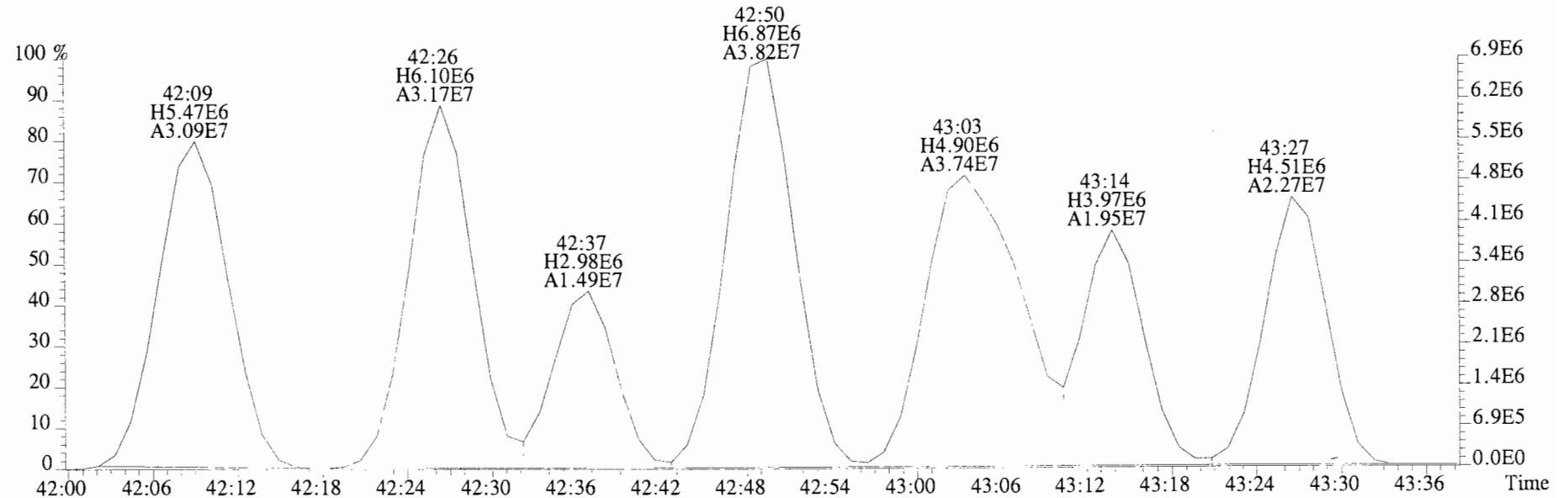
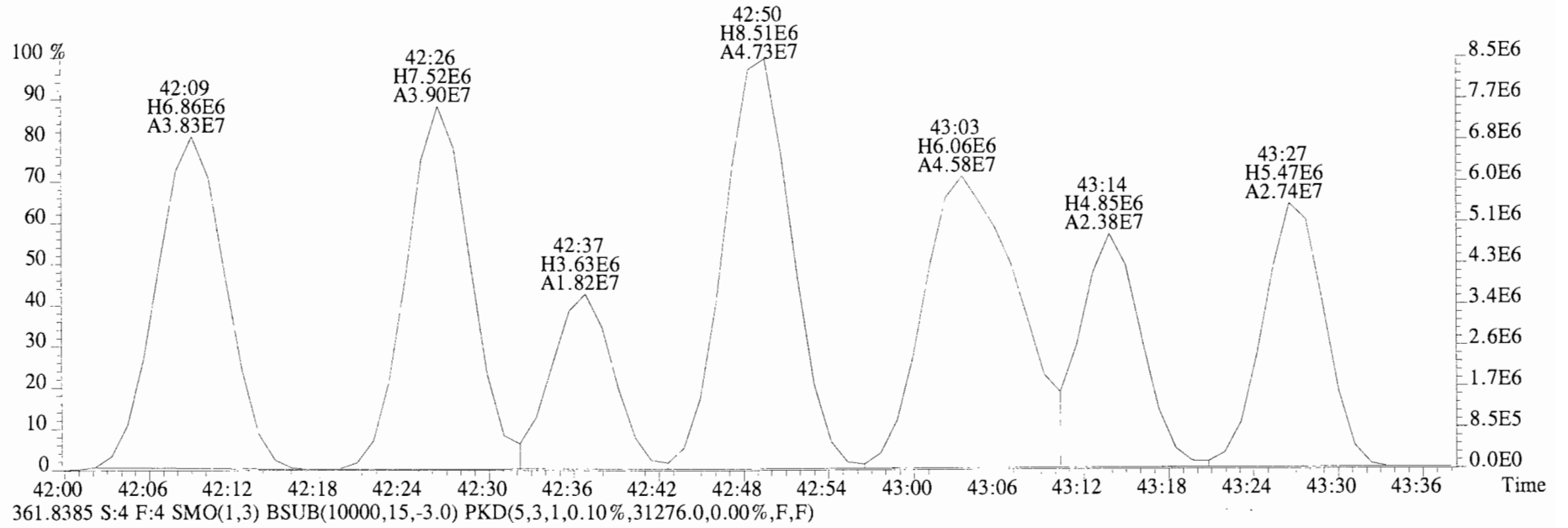




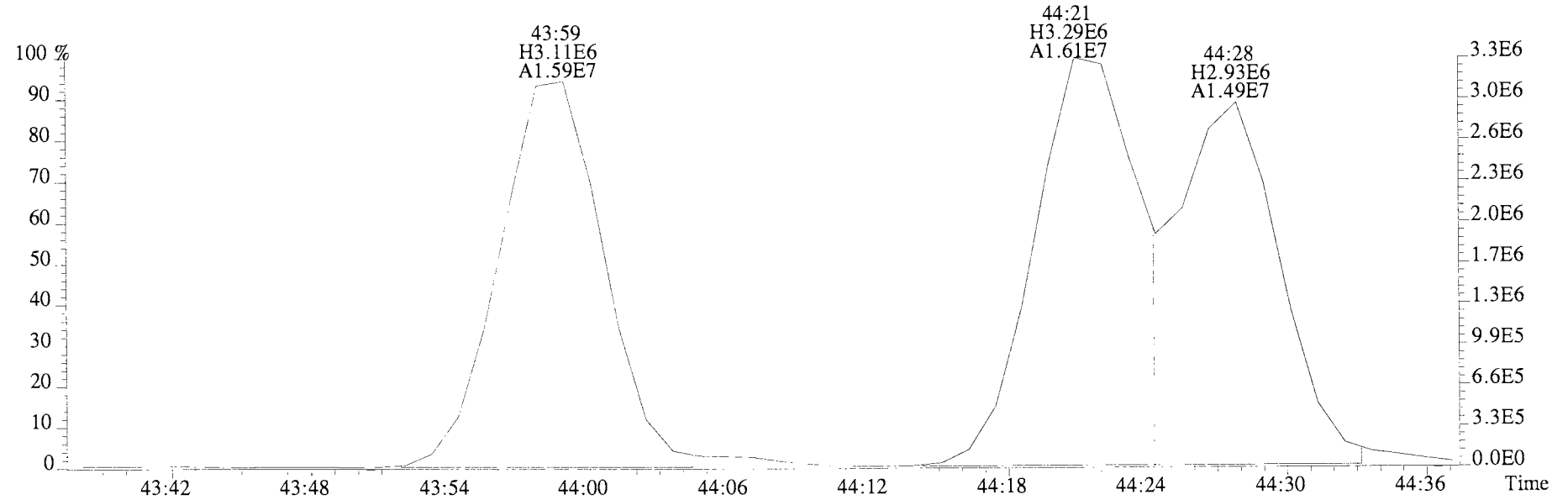
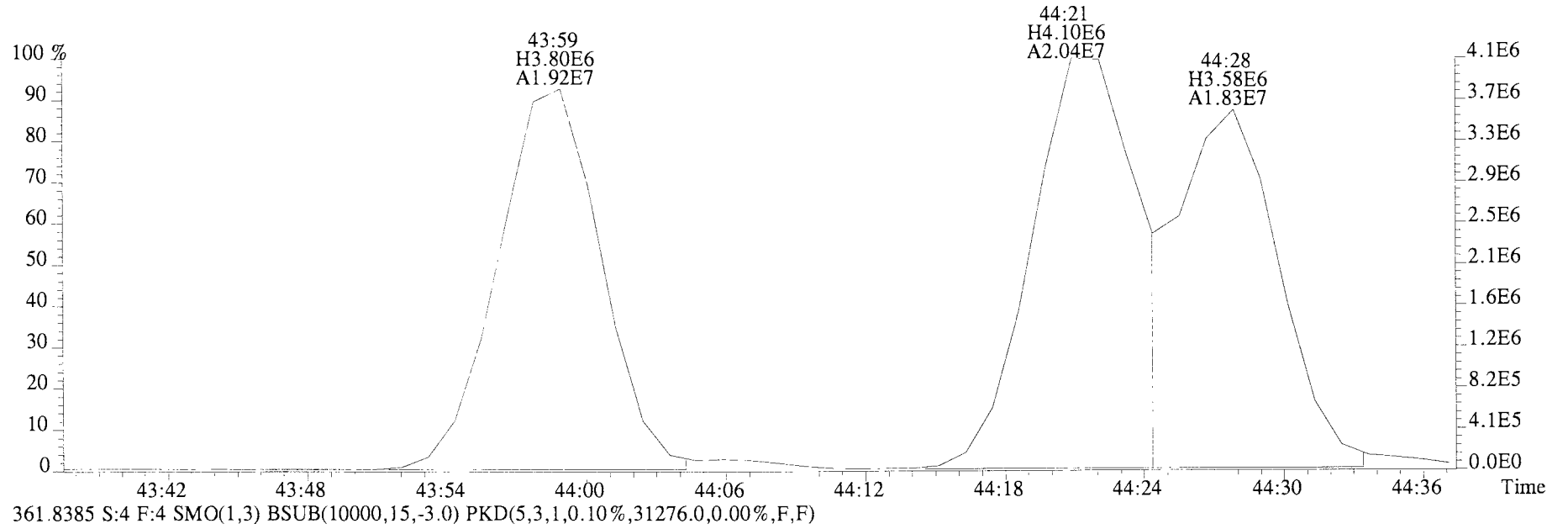
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41624.0,0.00%,F,F)



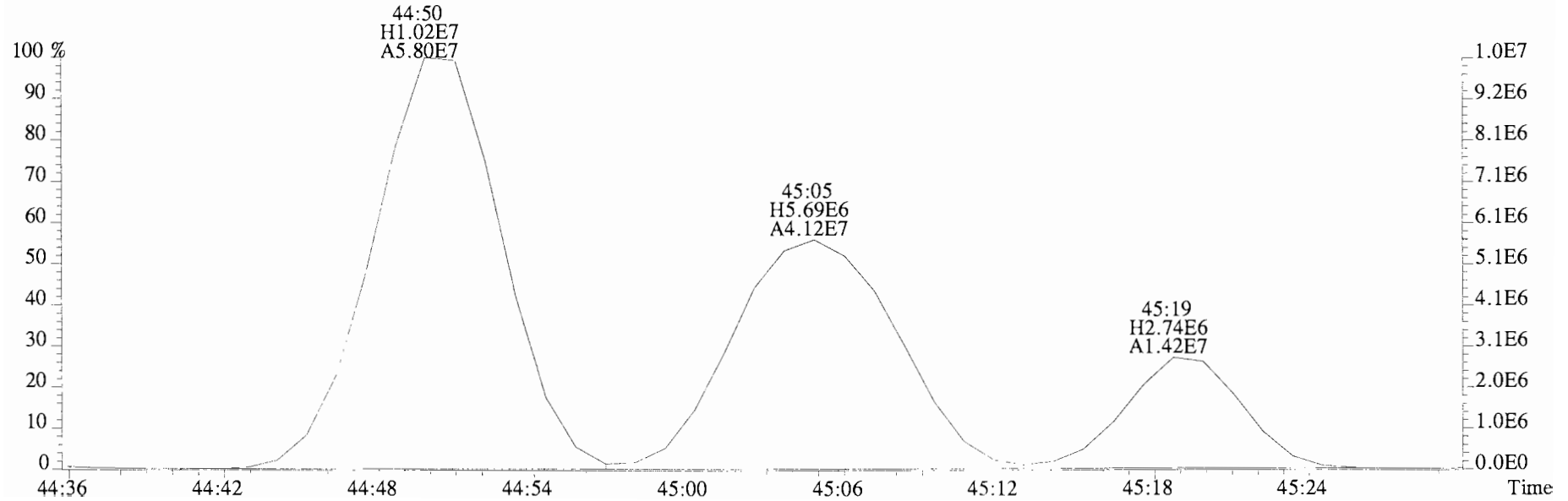
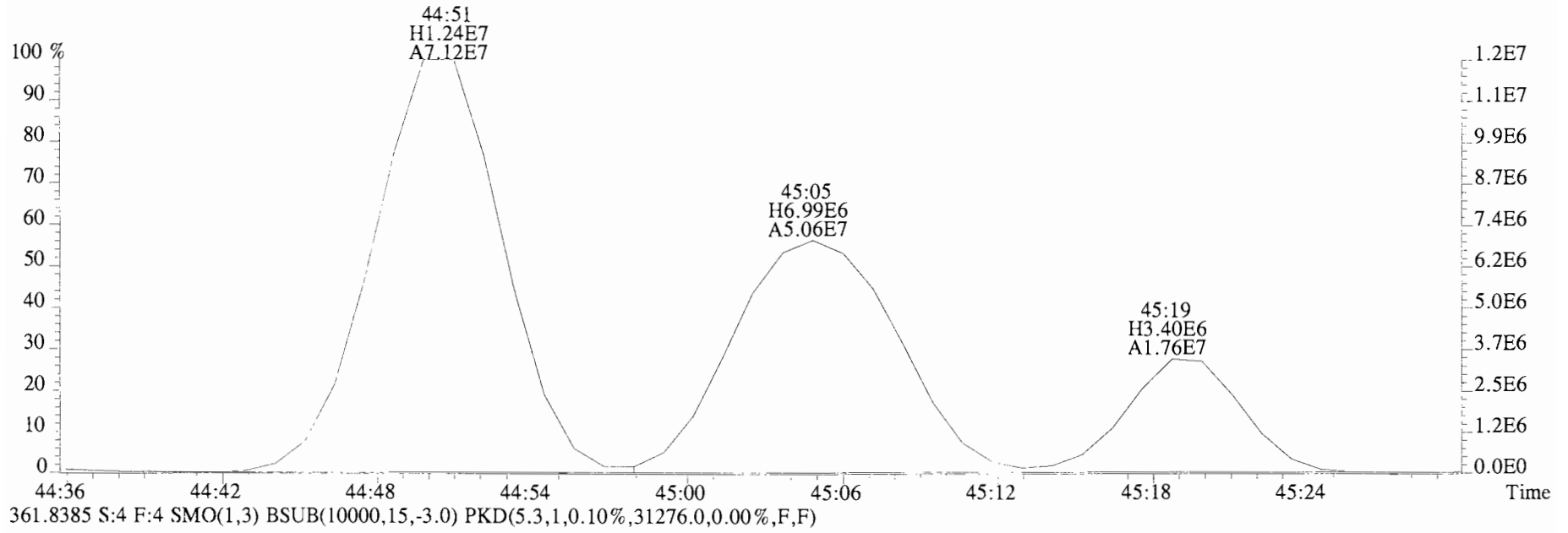
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41624.0,0.00%,F,F)



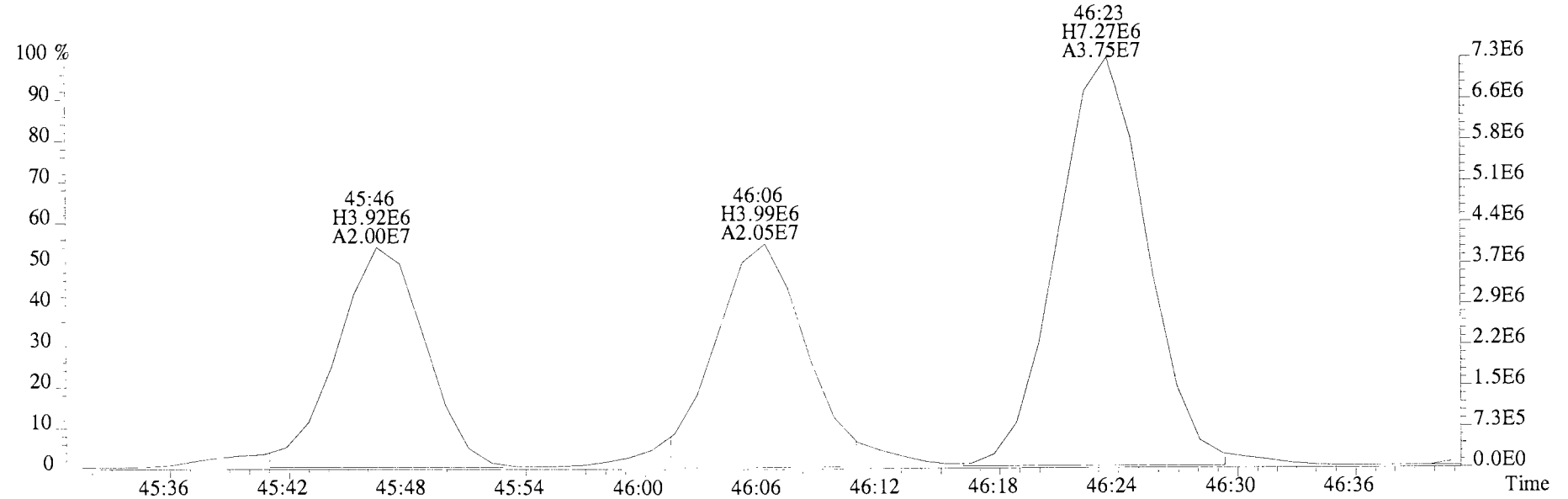
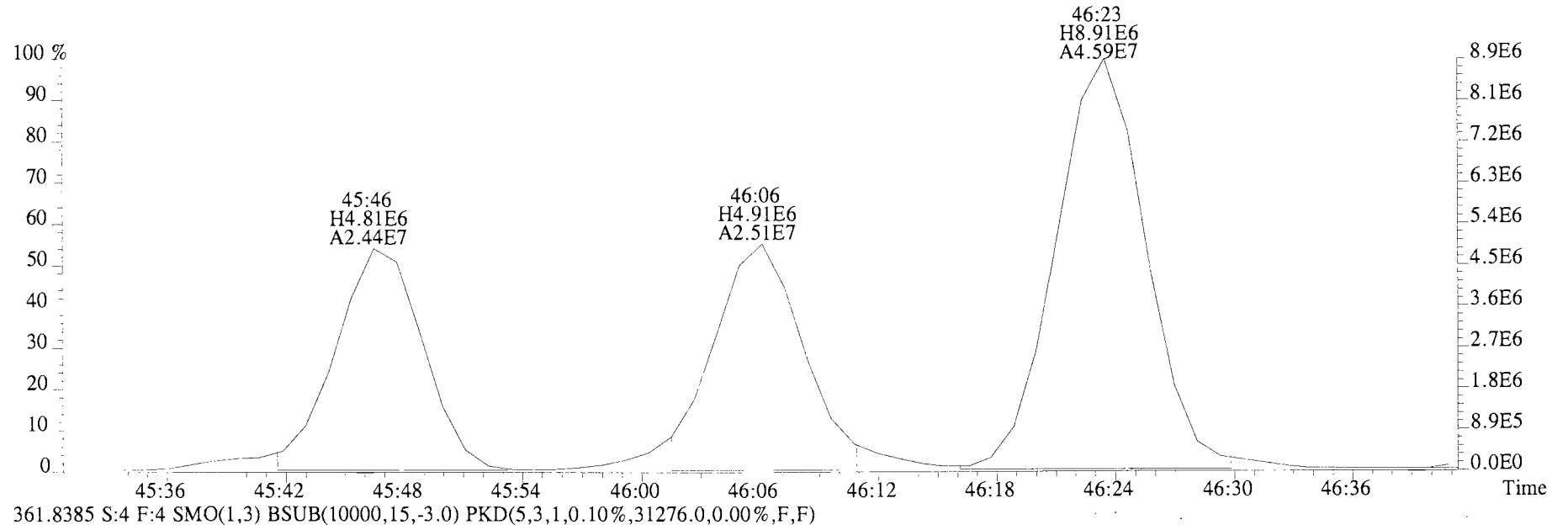
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41624.0,0.00%,F,F)



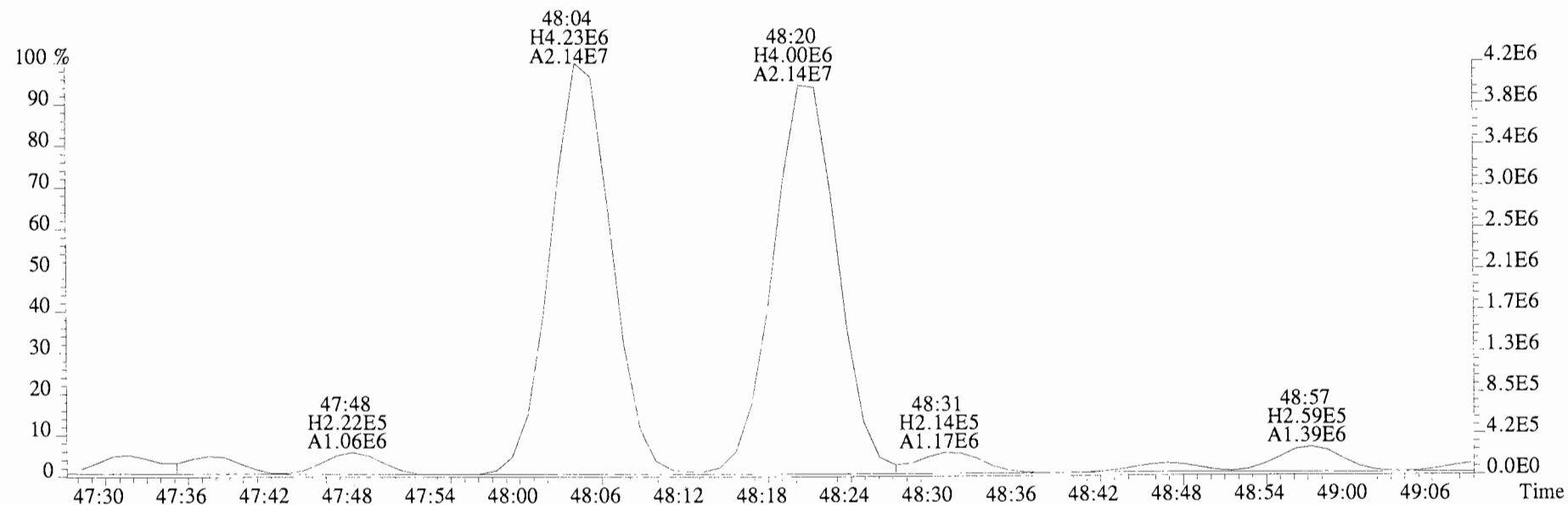
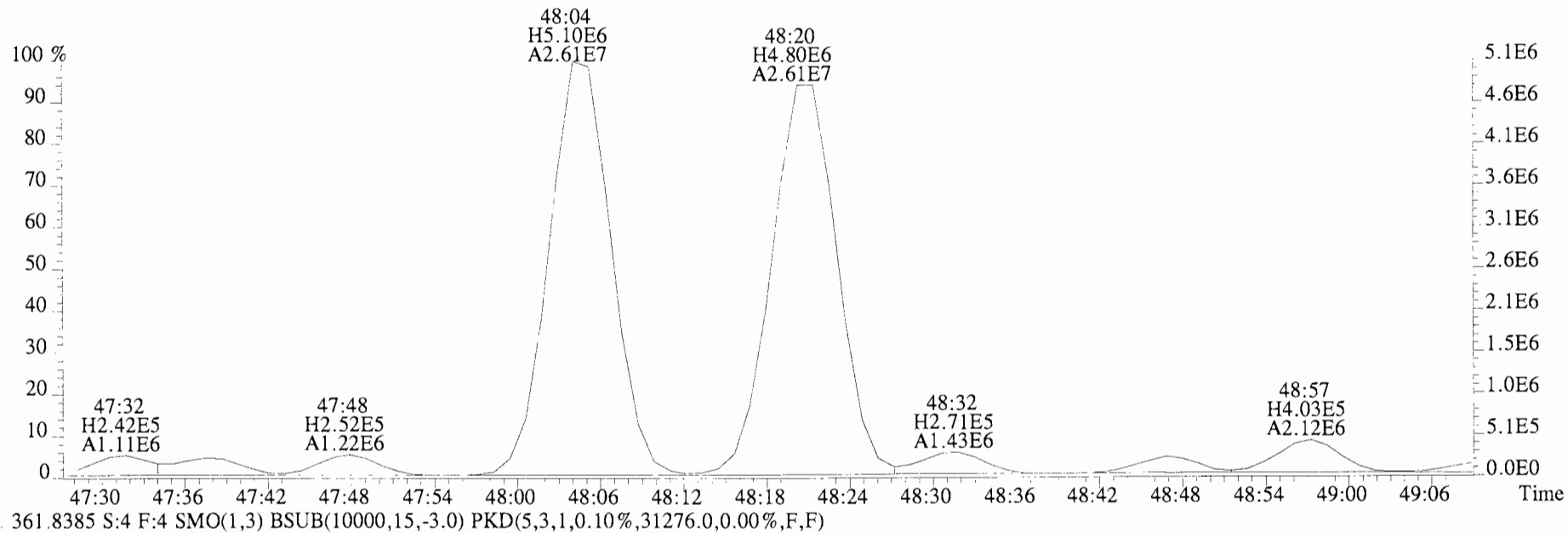
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41624.0,0.00%,F,F)



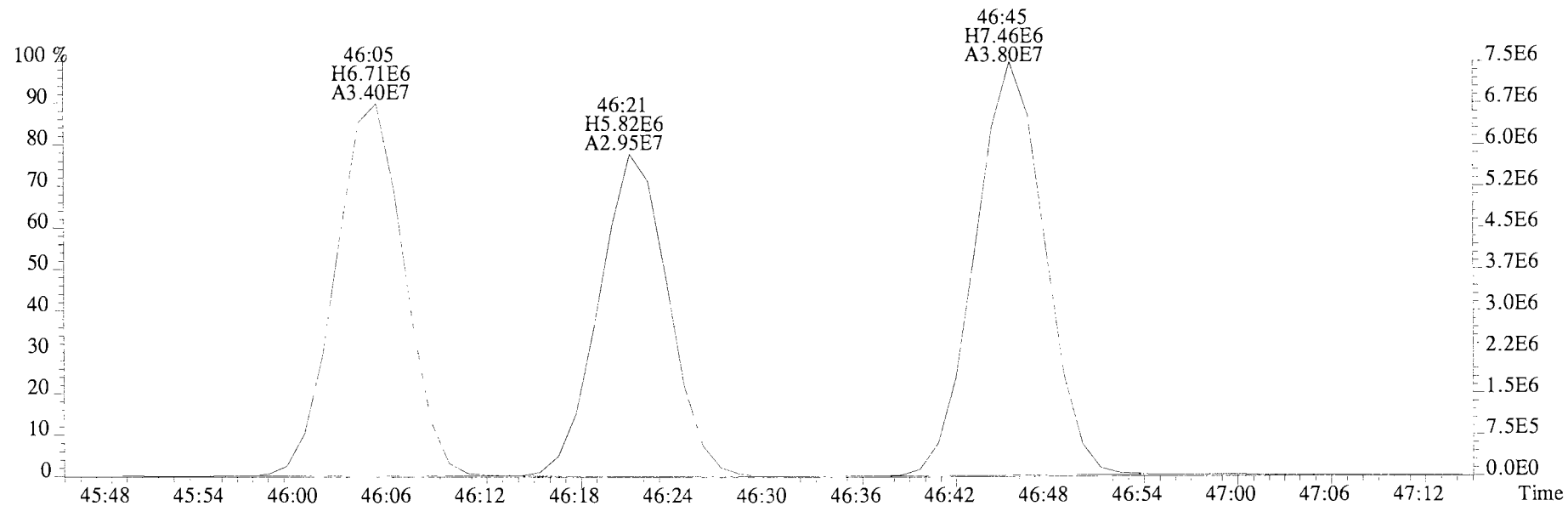
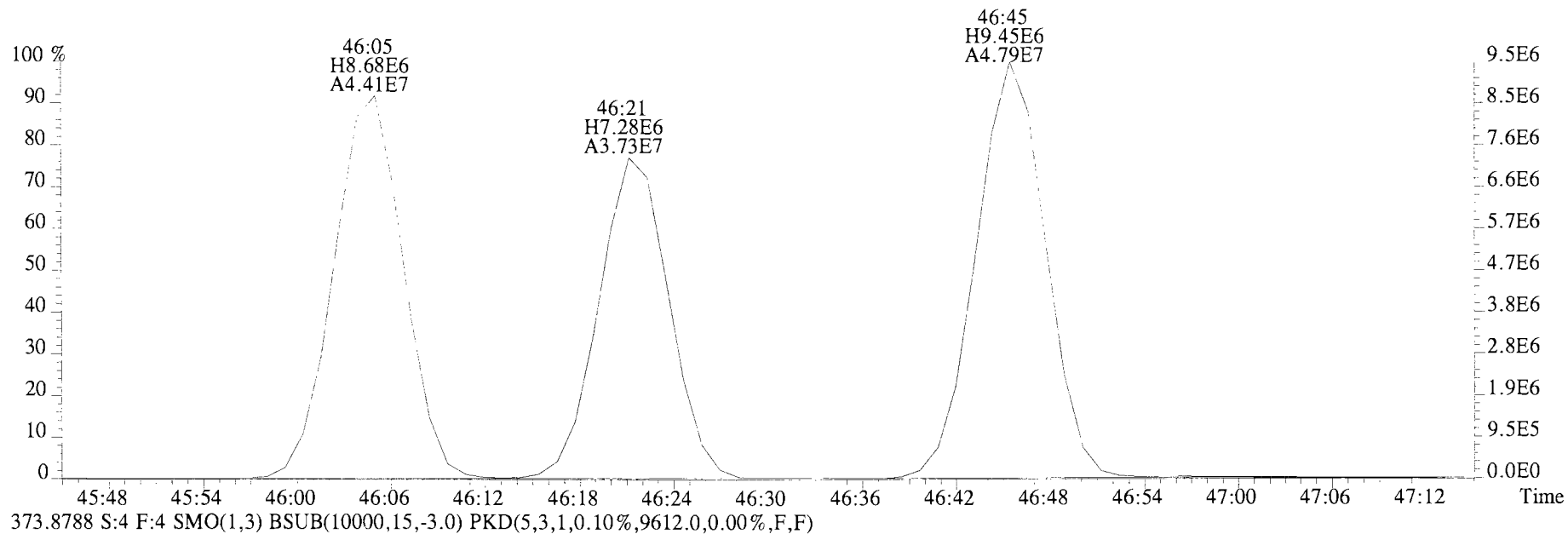
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Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41624.0,0.00%,F,F)



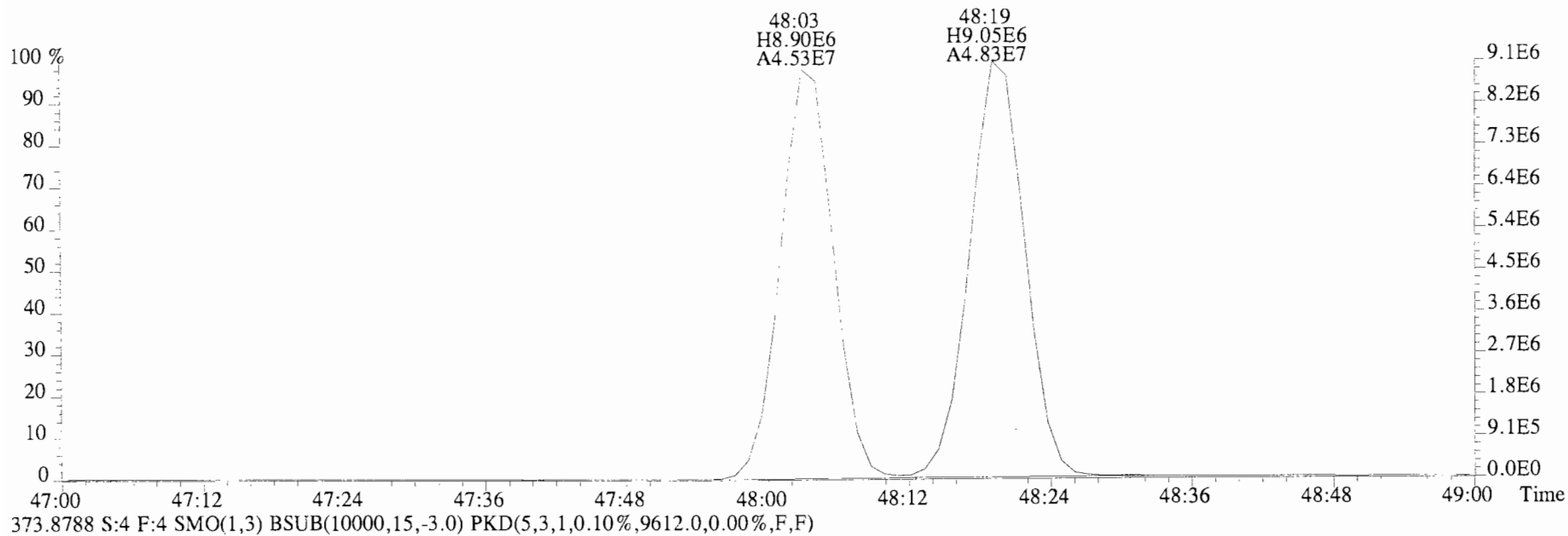
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,41624.0,0.00%,F,F)



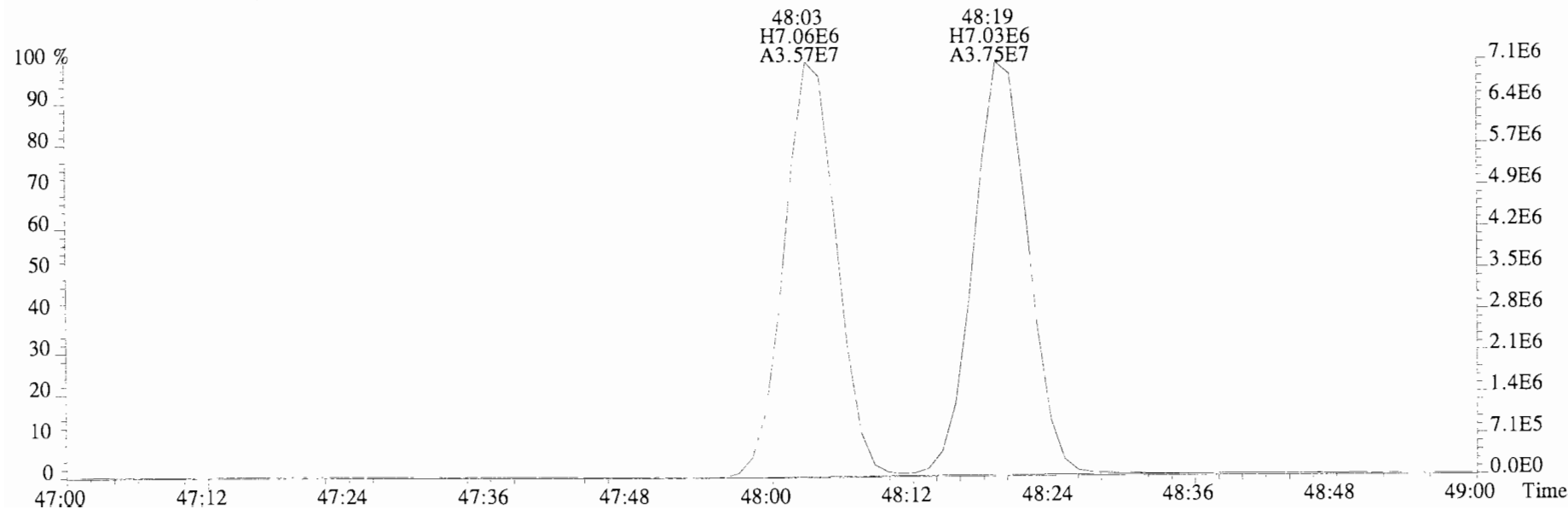
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,13148.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,13148.0,0.00%,F,F)

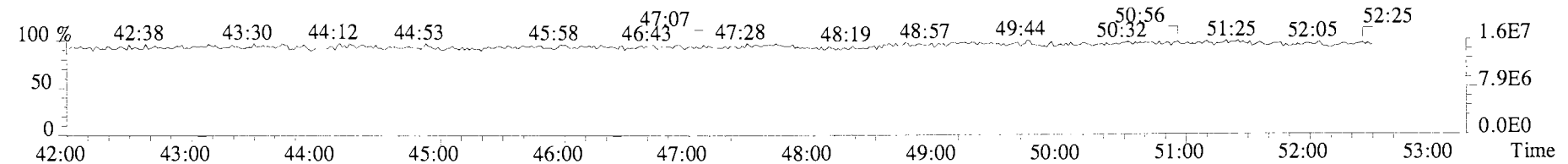
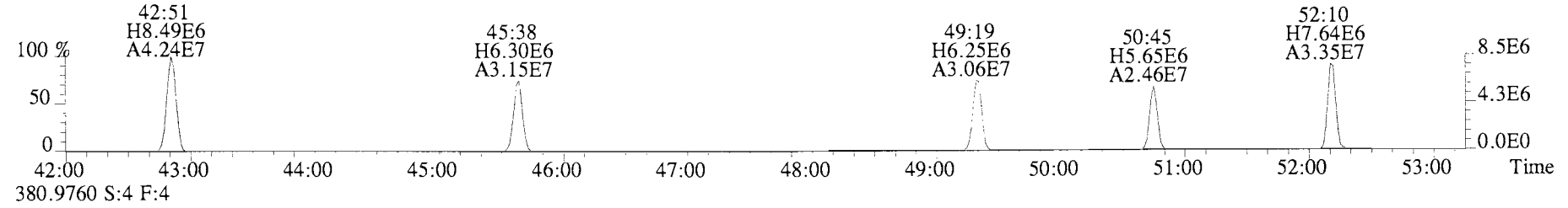
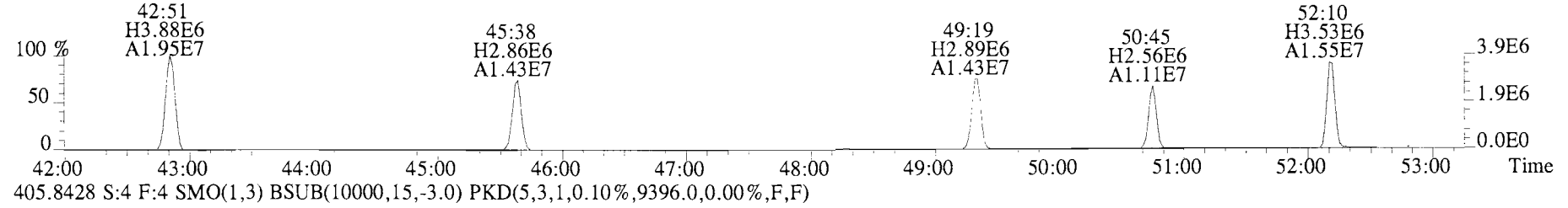
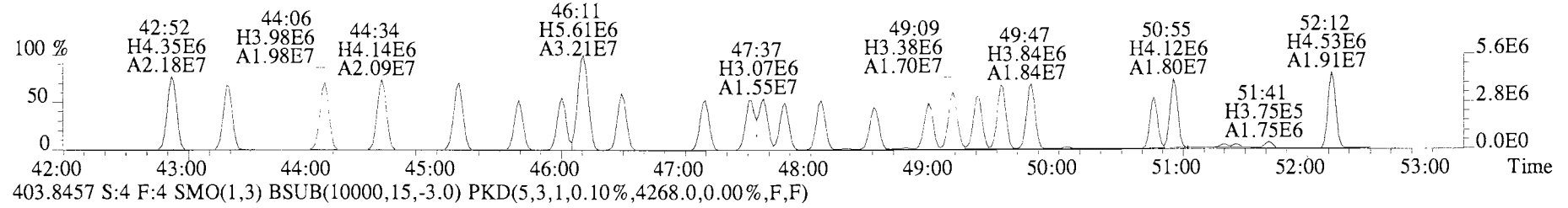
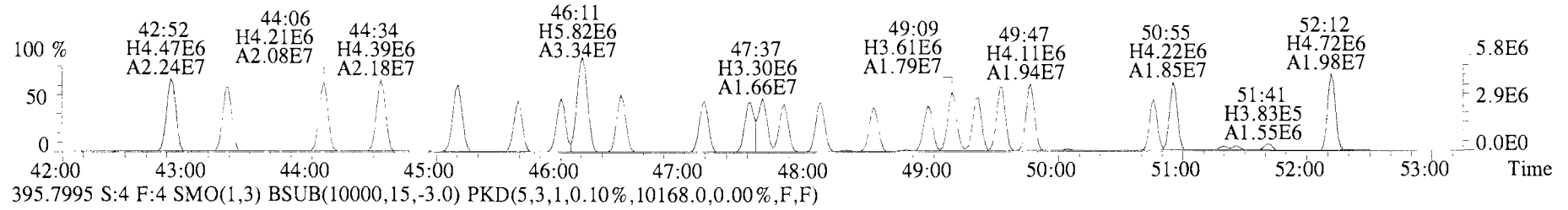


373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9612.0,0.00%,F,F)

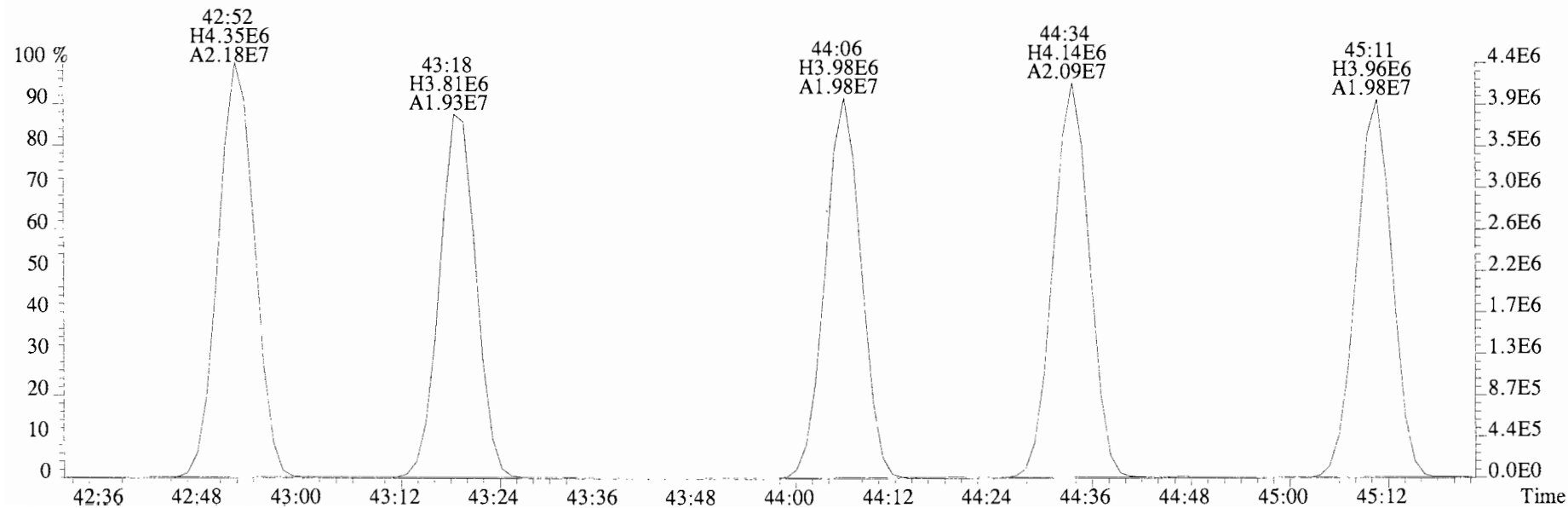
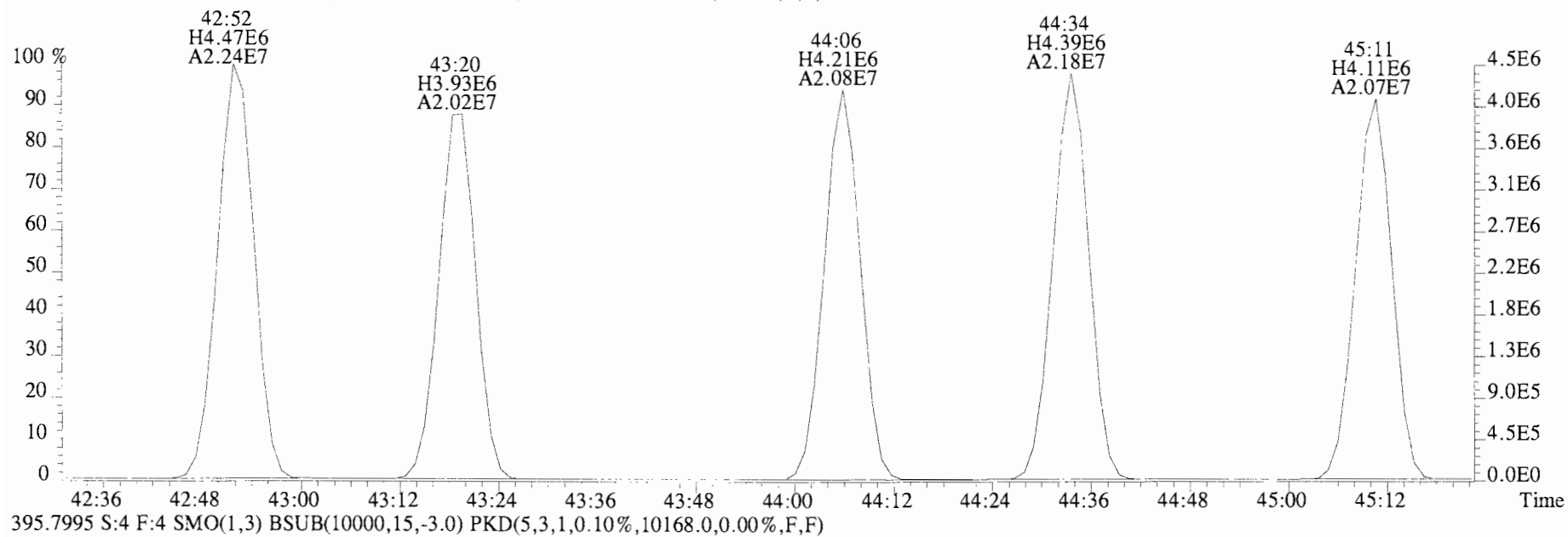




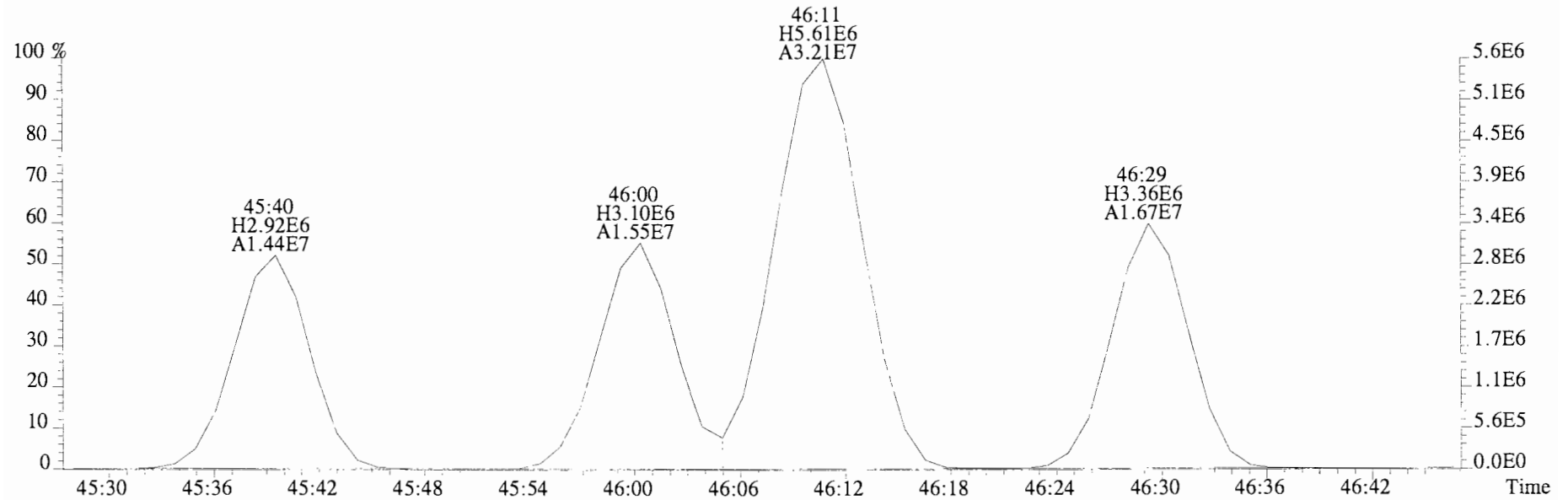
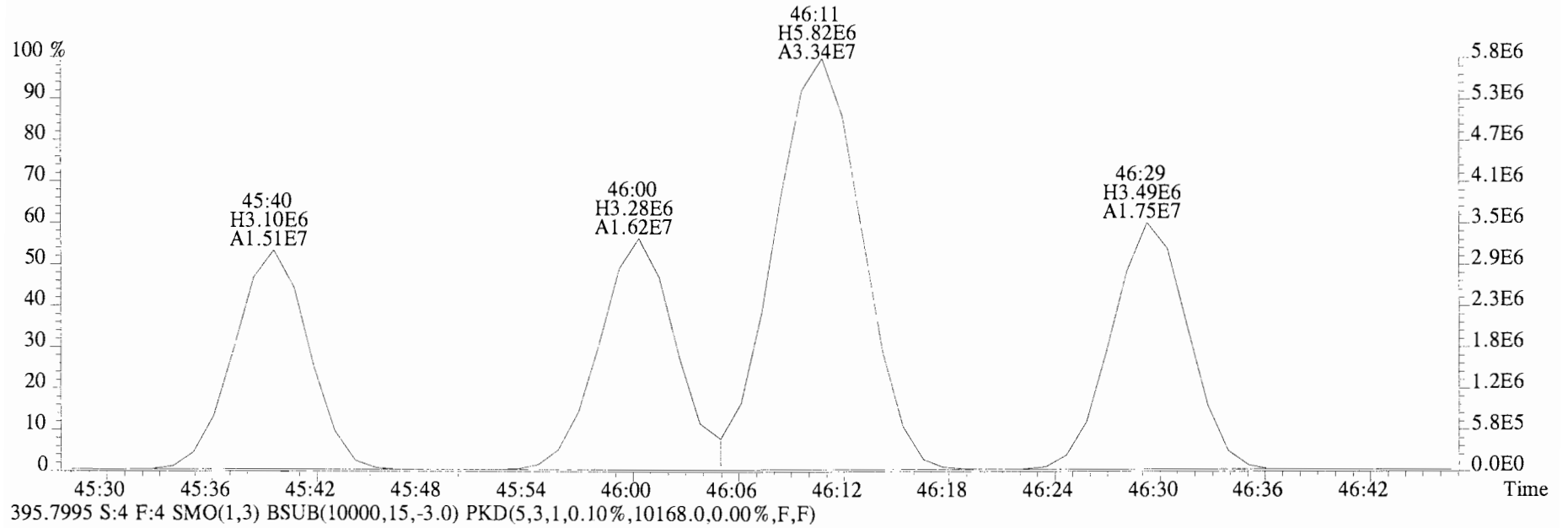
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33868.0,0.00%,F,F)



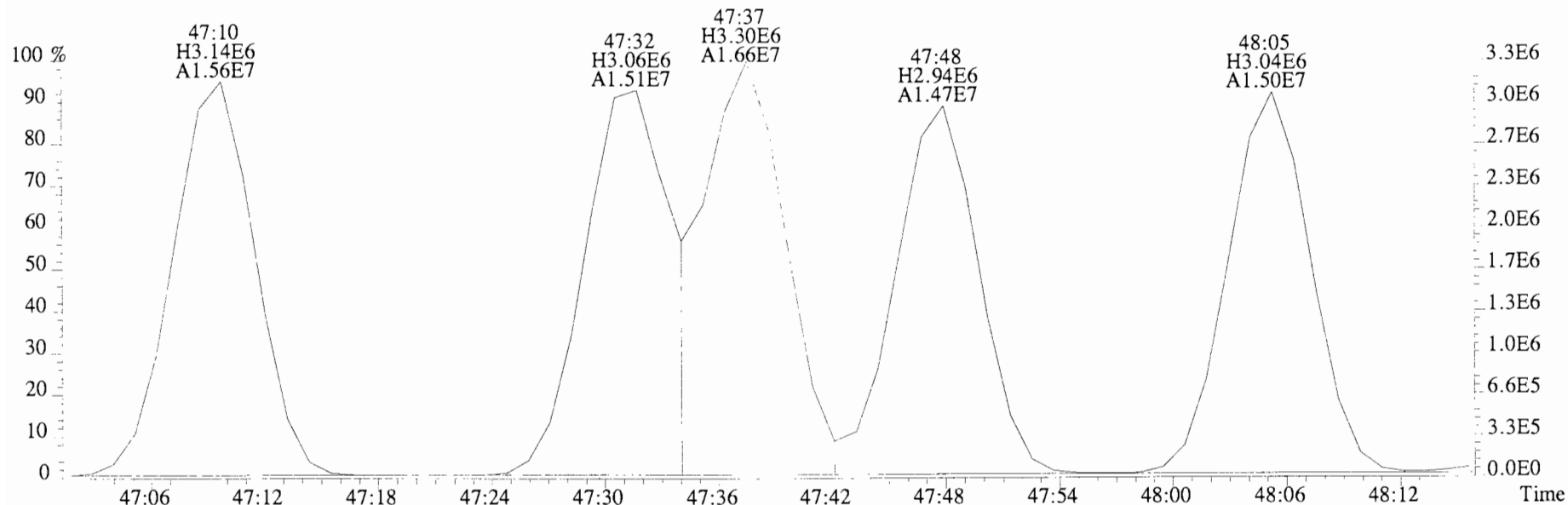
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33868.0,0.00%,F,F)



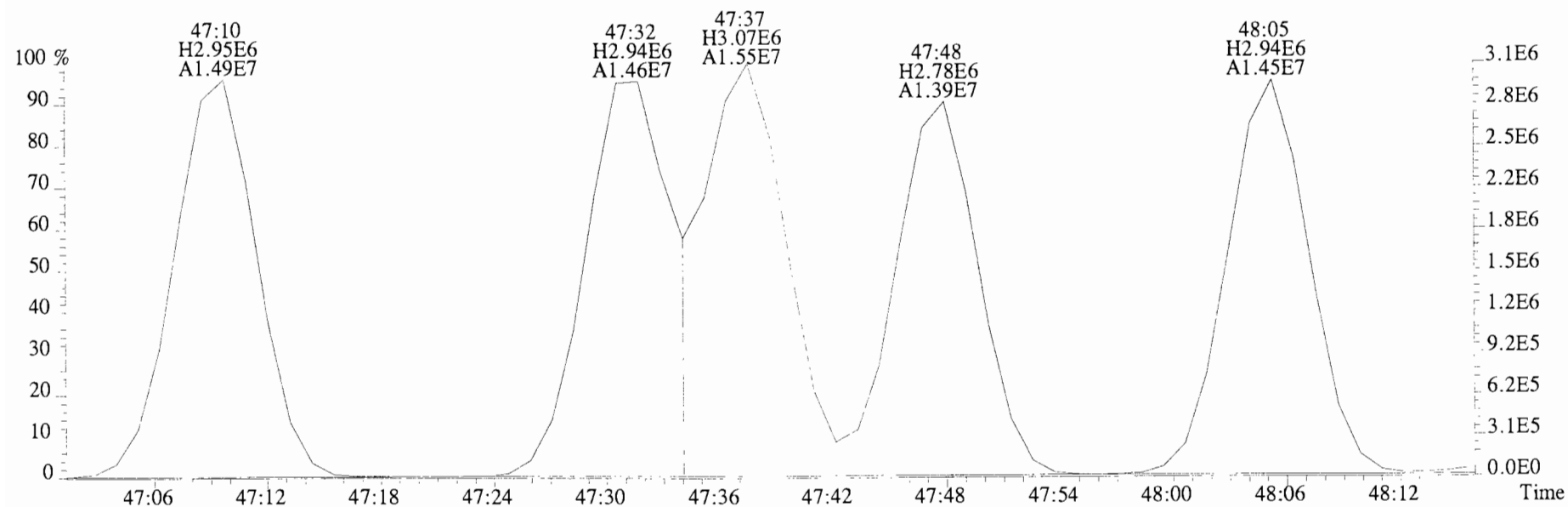
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Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33868.0,0.00%,F,F)



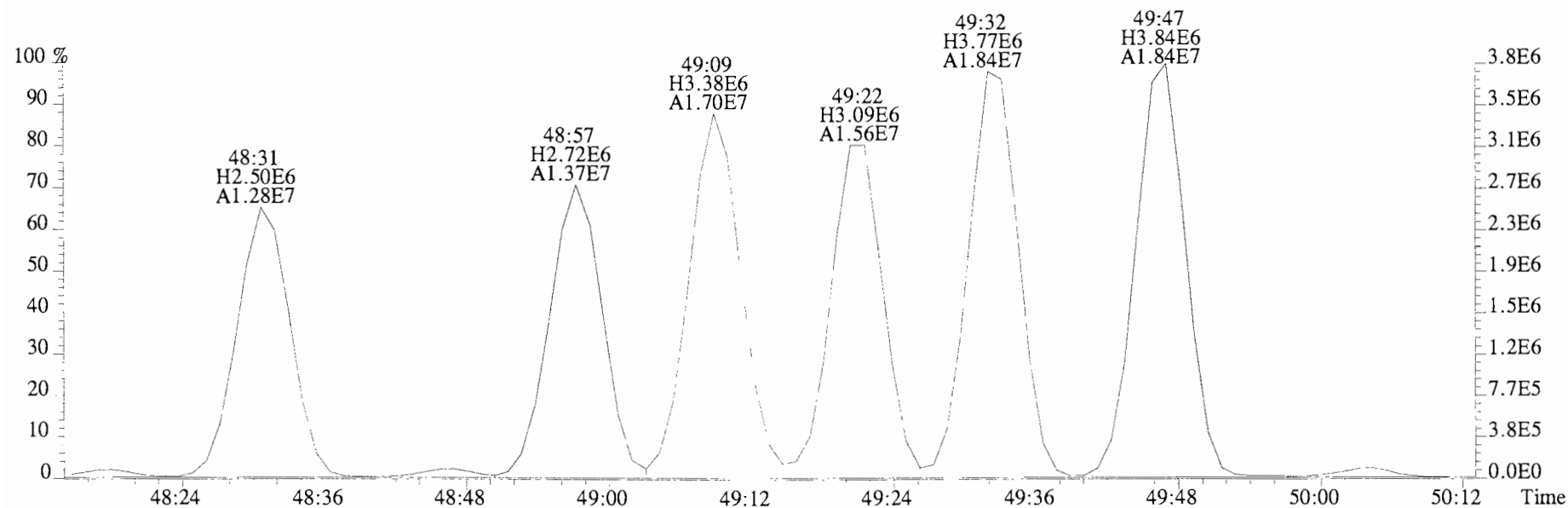
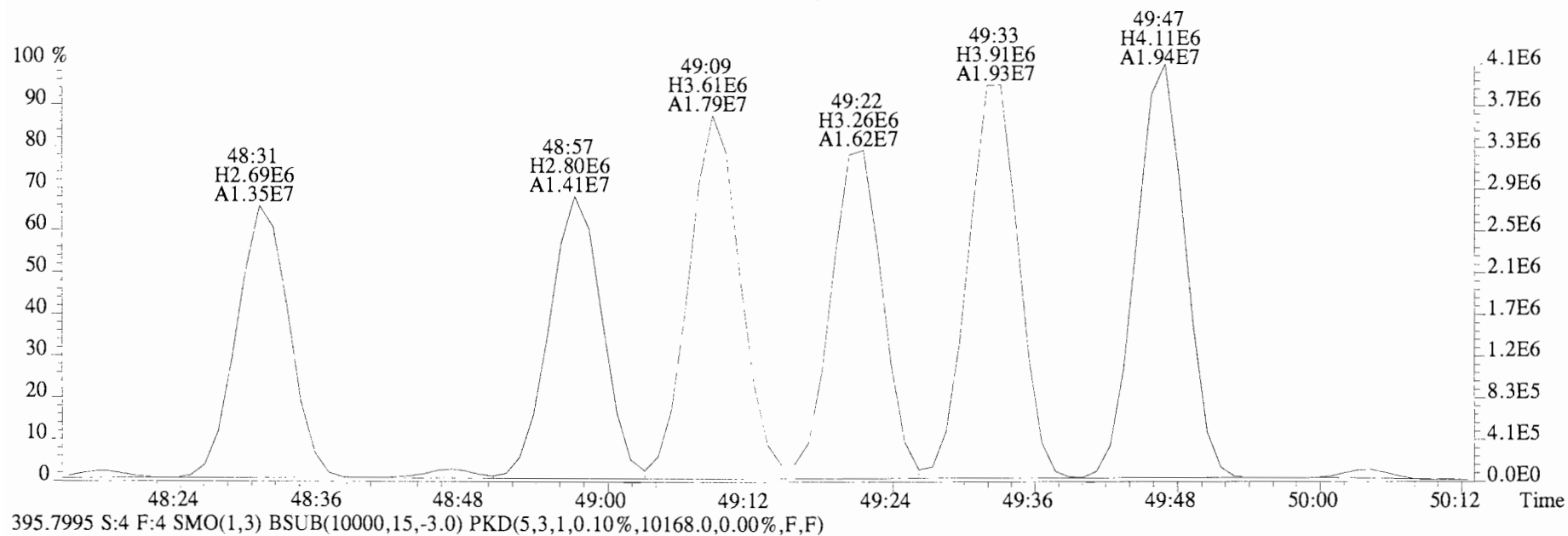
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
 393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33868.0,0.00%,F,F)



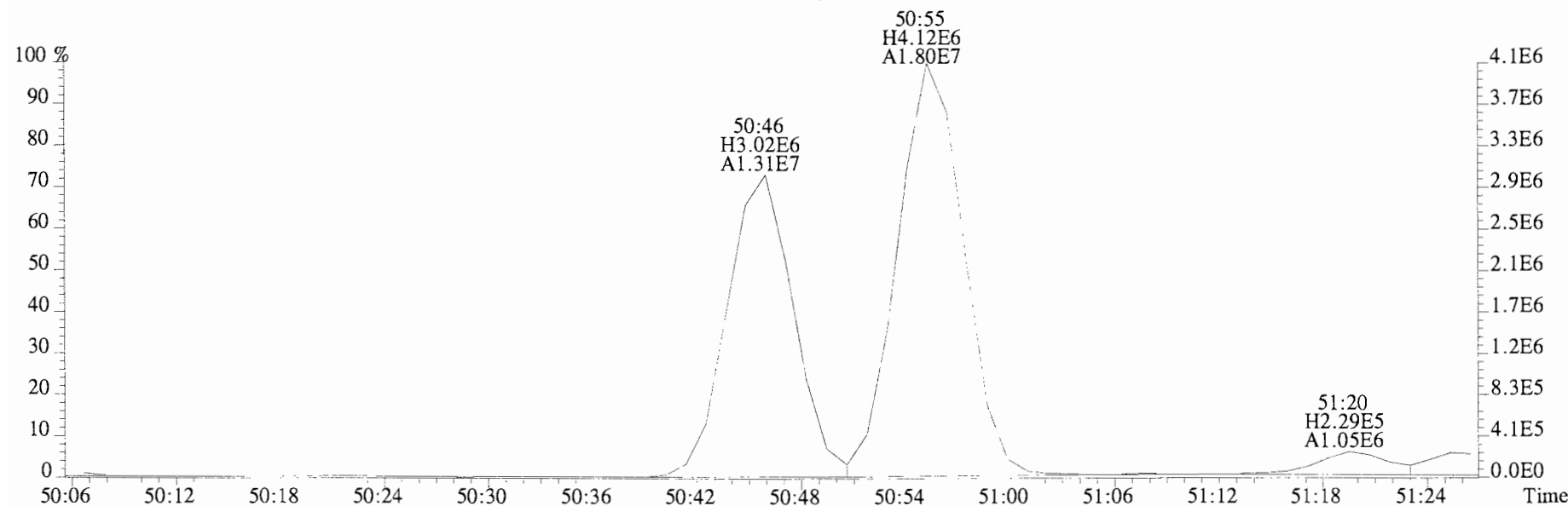
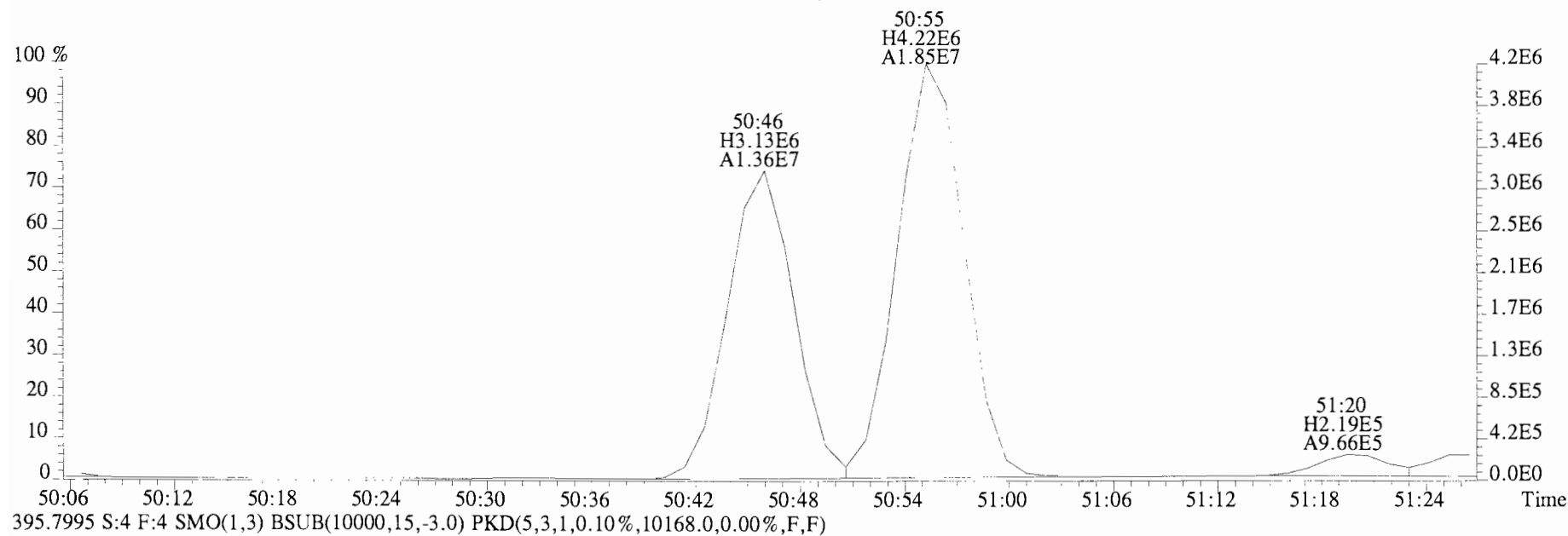
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10168.0,0.00%,F,F)



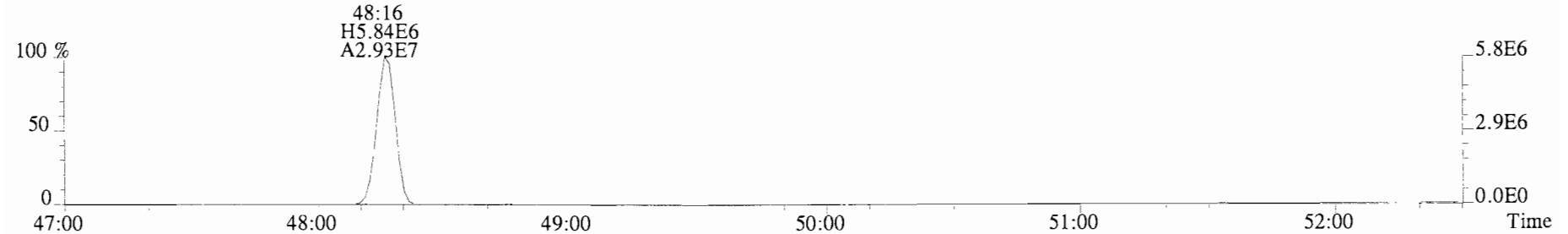
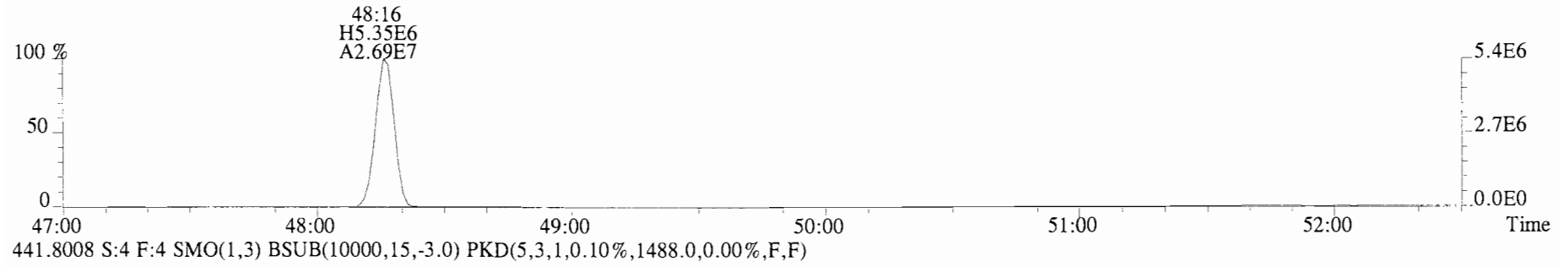
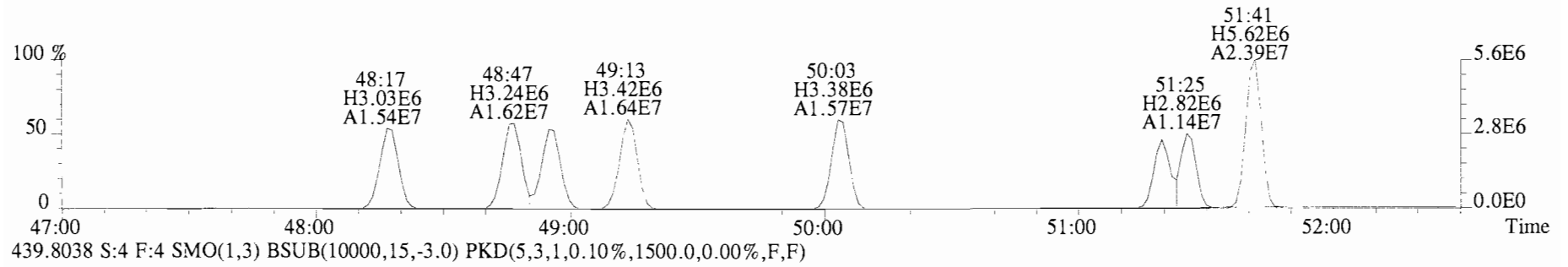
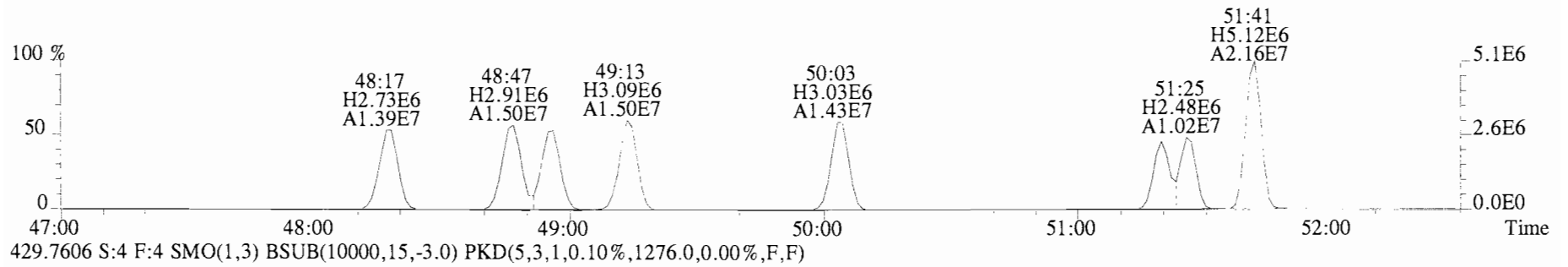
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33868.0,0.00%,F,F)



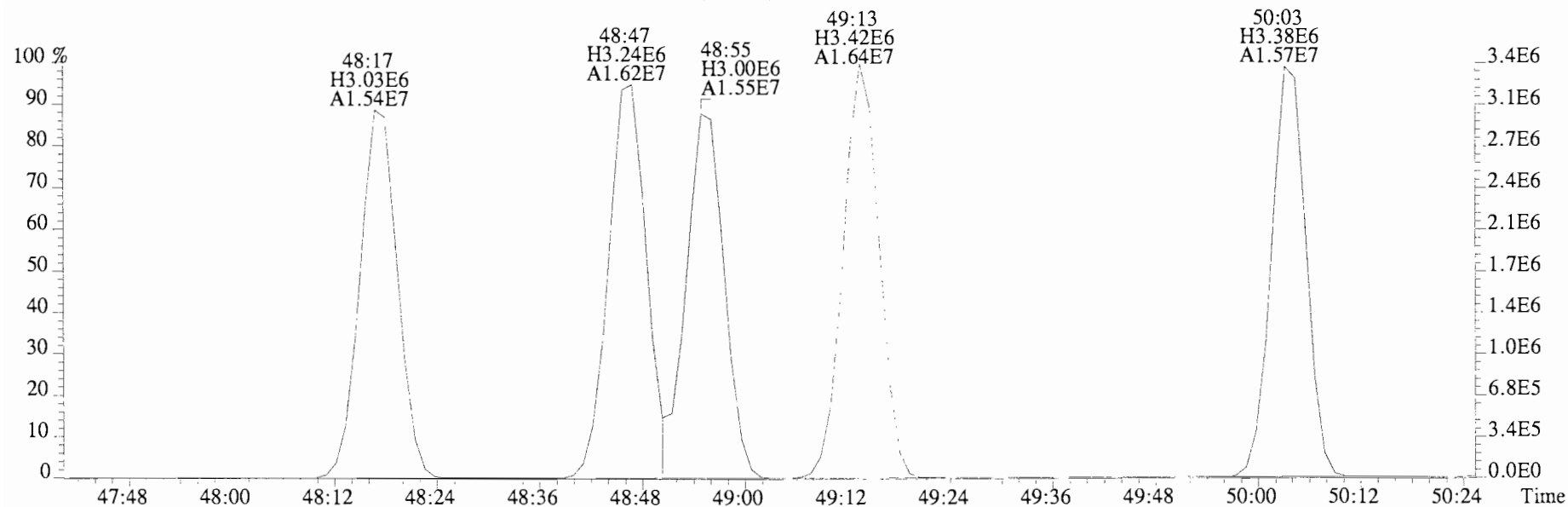
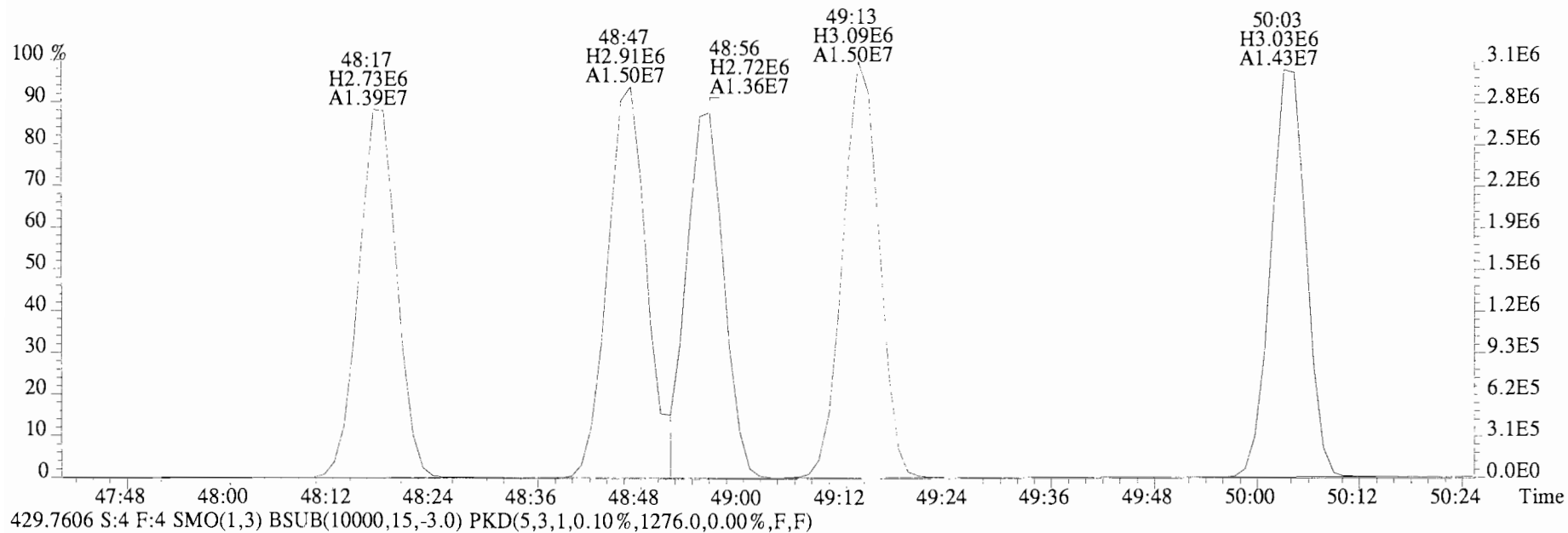
File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,33868.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1068.0,0.00%,F,F)

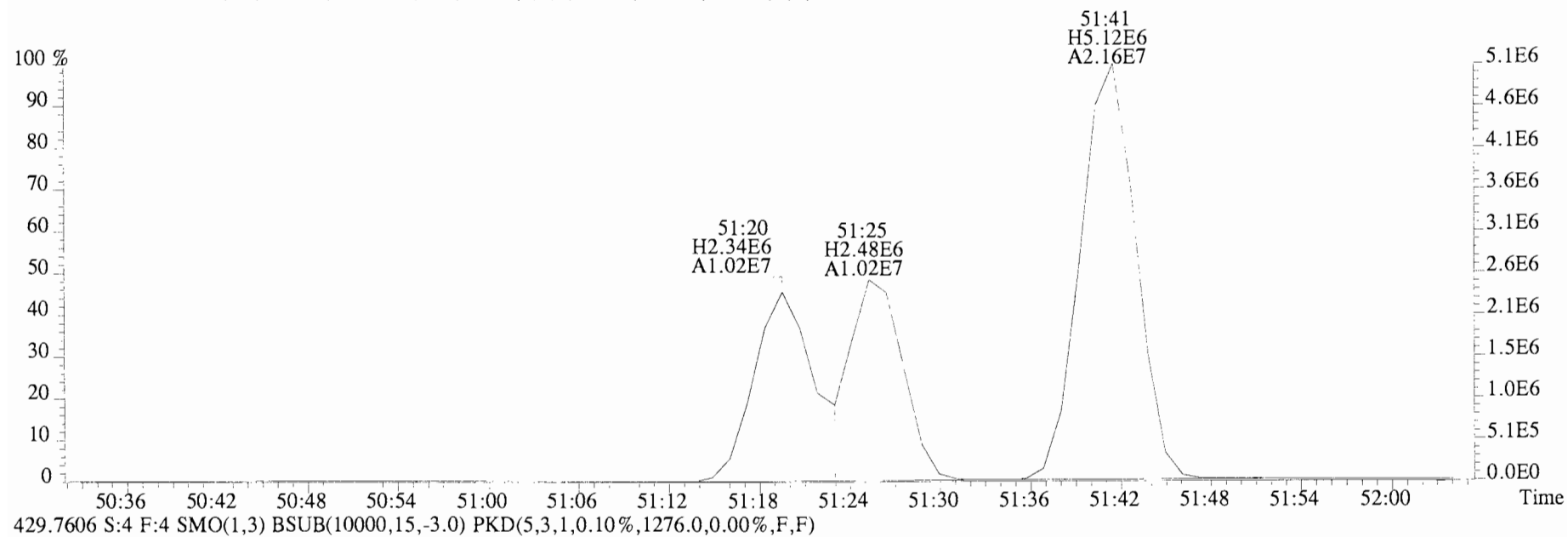


File:140620E1 #1-546 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1068.0,0.00%,F,F)

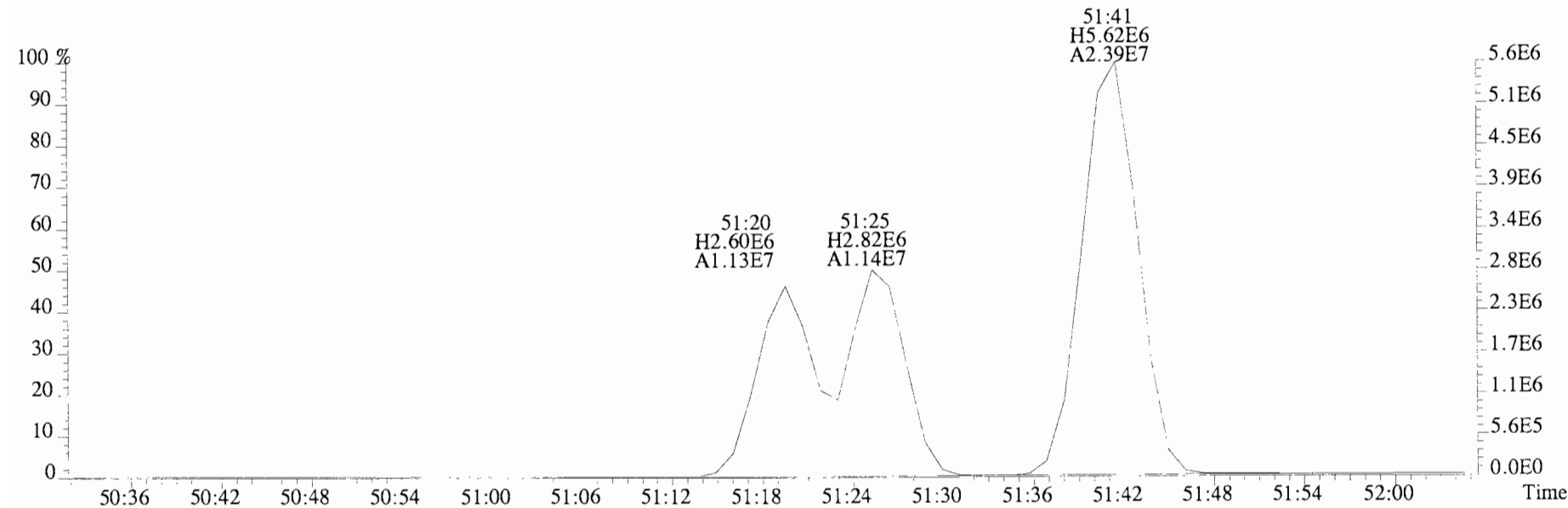




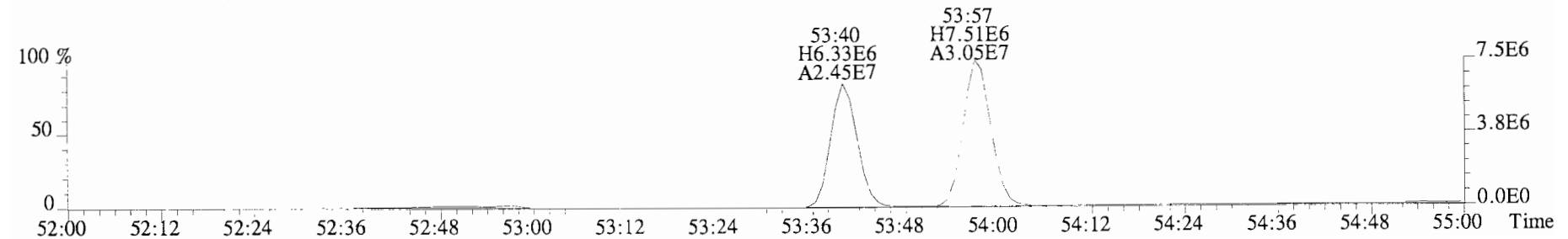
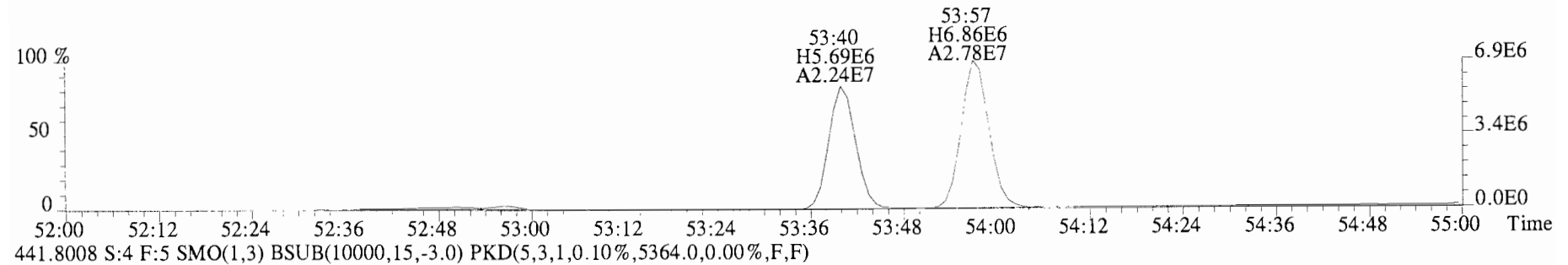
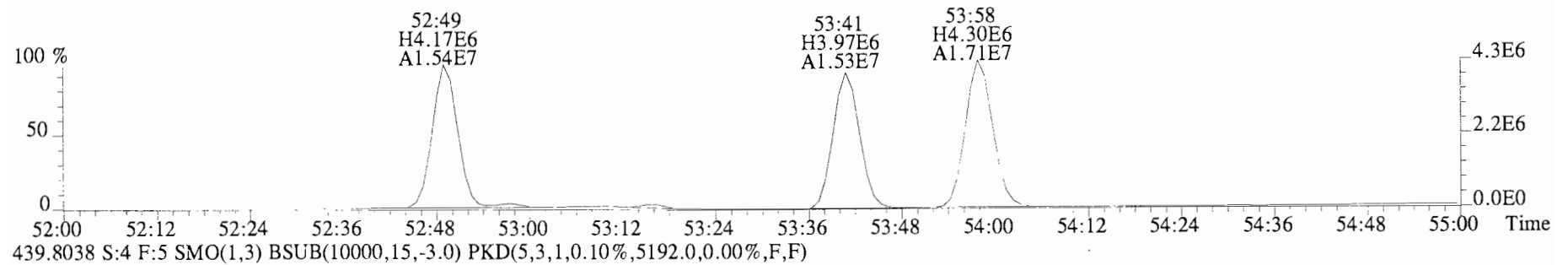
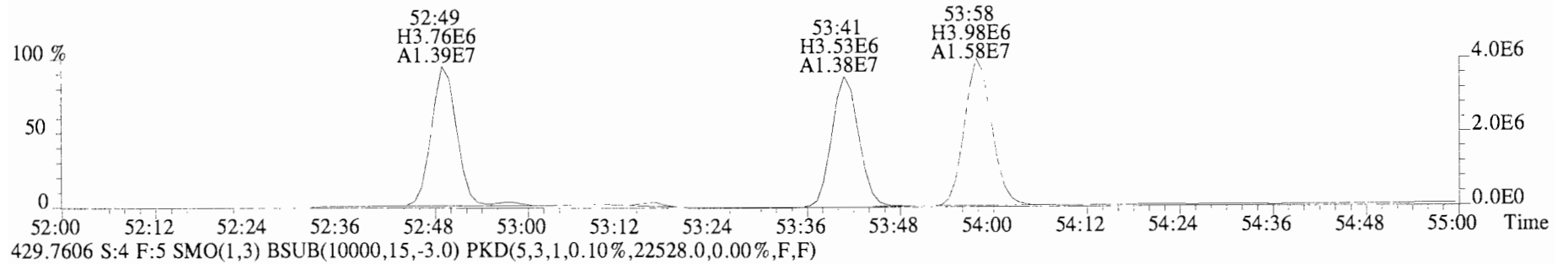
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Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1068.0,0.00%,F,F)



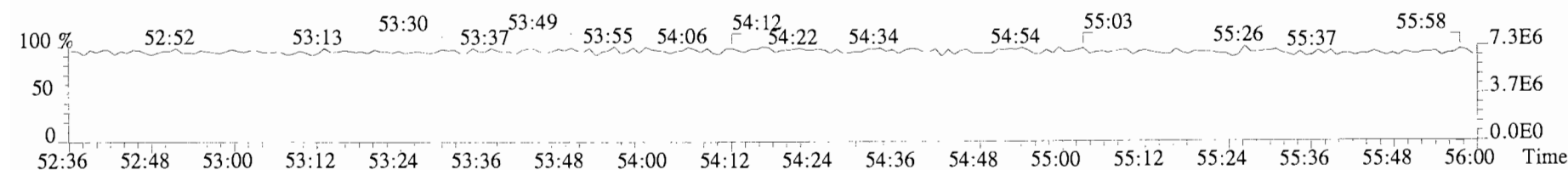
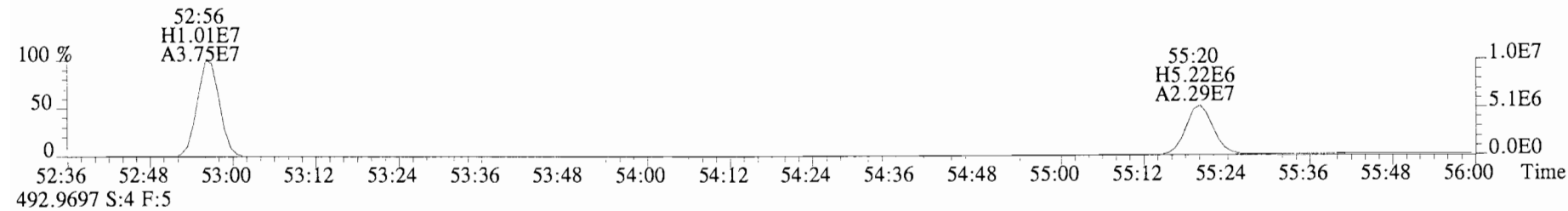
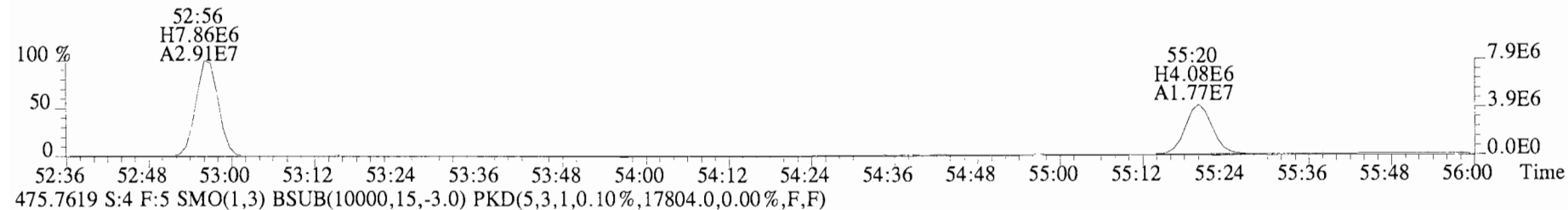
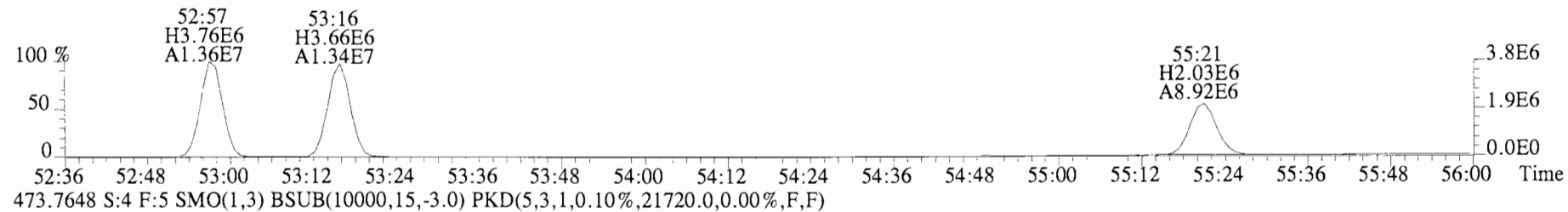
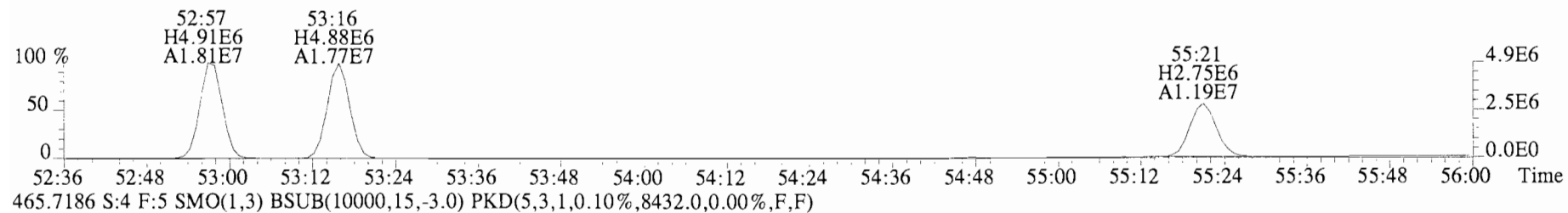
429.7606 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1276.0,0.00%,F,F)



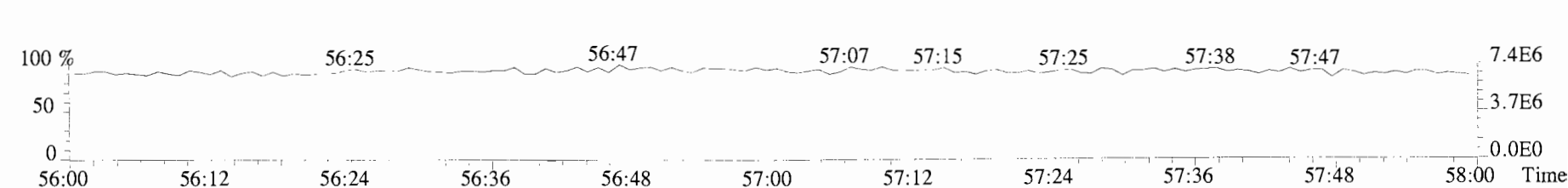
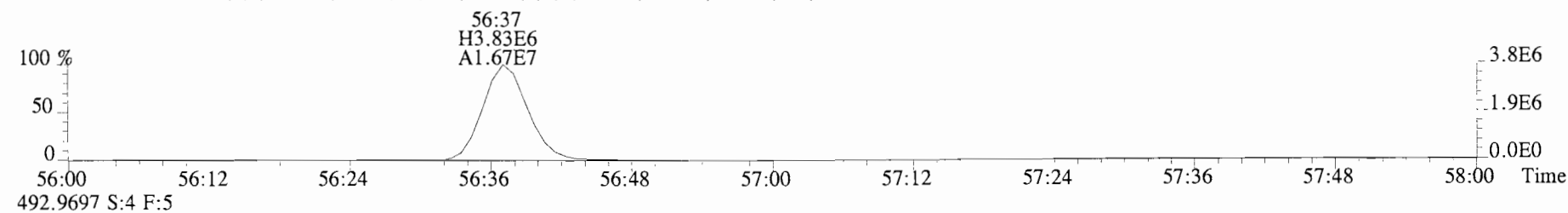
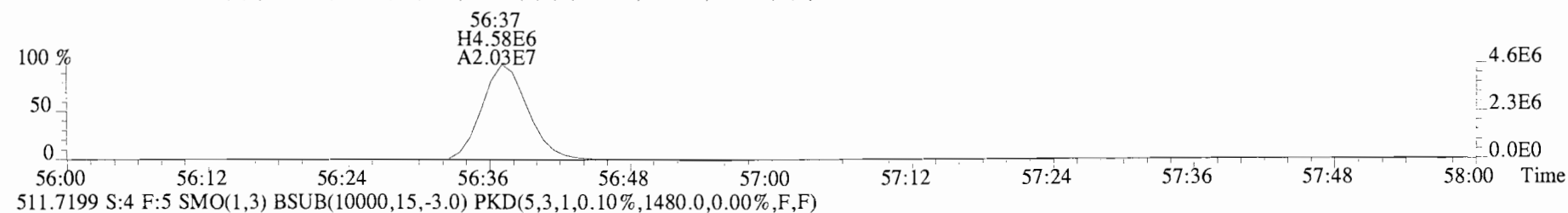
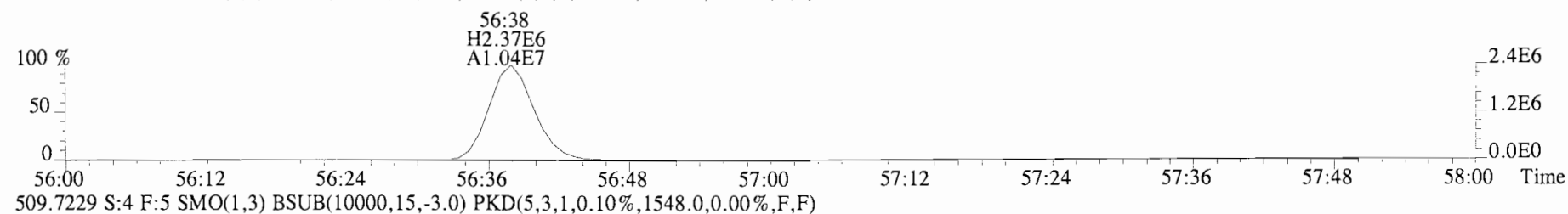
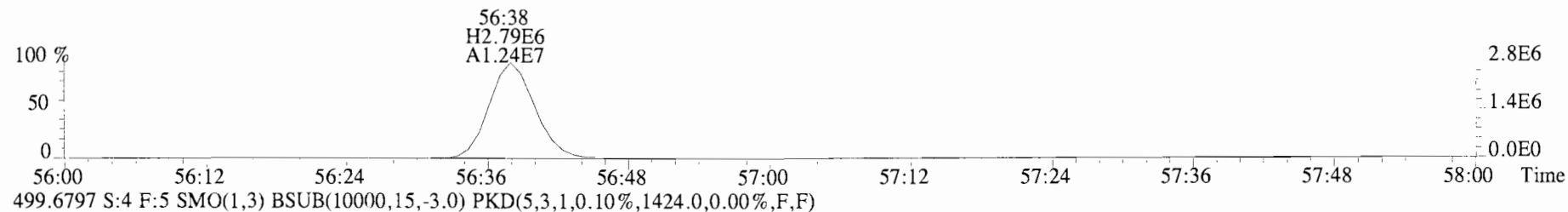
File:140620E1 #1-435 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31480.0,0.00%,F,F)



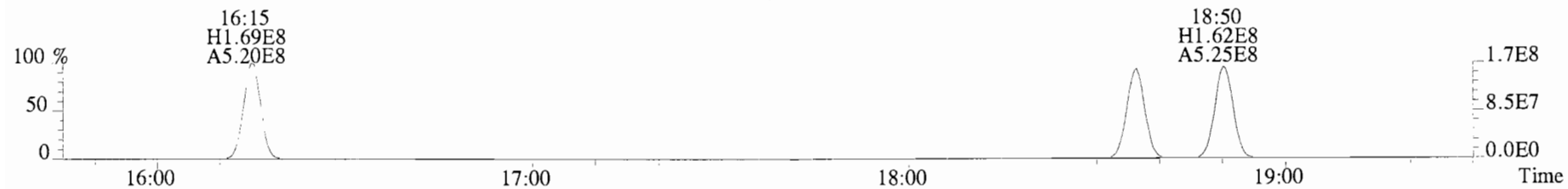
File:140620E1 #1-435 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,11576.0,0.00%,F,F)



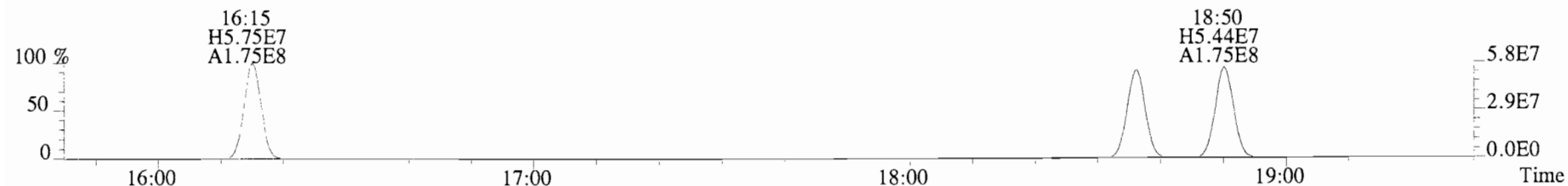
File:140620E1 #1-435 Acq:20-JUN-2014 12:43:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-4 PCB CS3 14F1901 Exp:PCB\_ZB1  
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1300.0,0.00%,F,F)



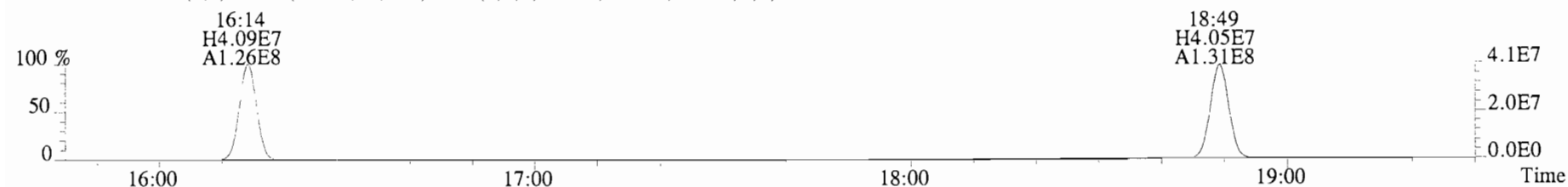
File:140620E1 #1-728 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9680.0,0.00%,F,F)



190.0363 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4948.0,0.00%,F,F)



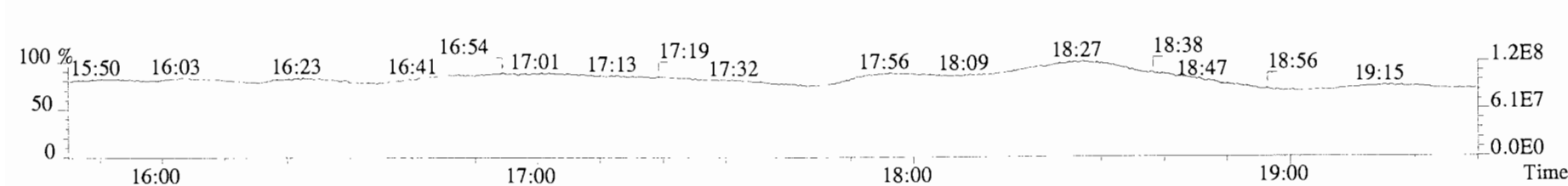
200.0795 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4852.0,0.00%,F,F)



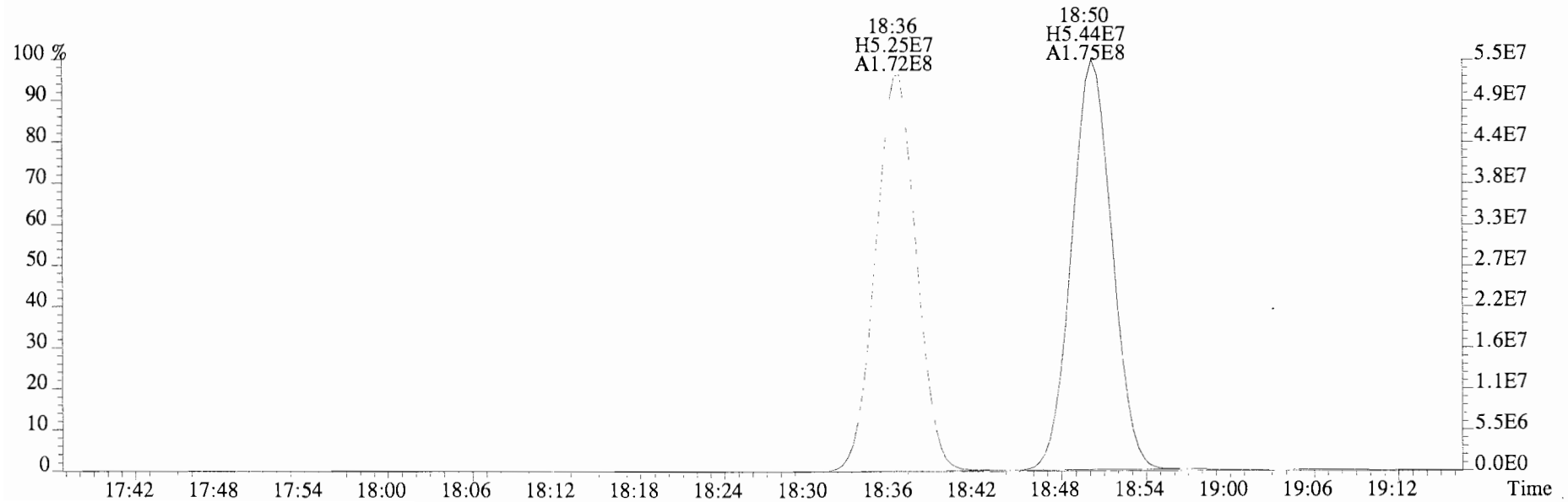
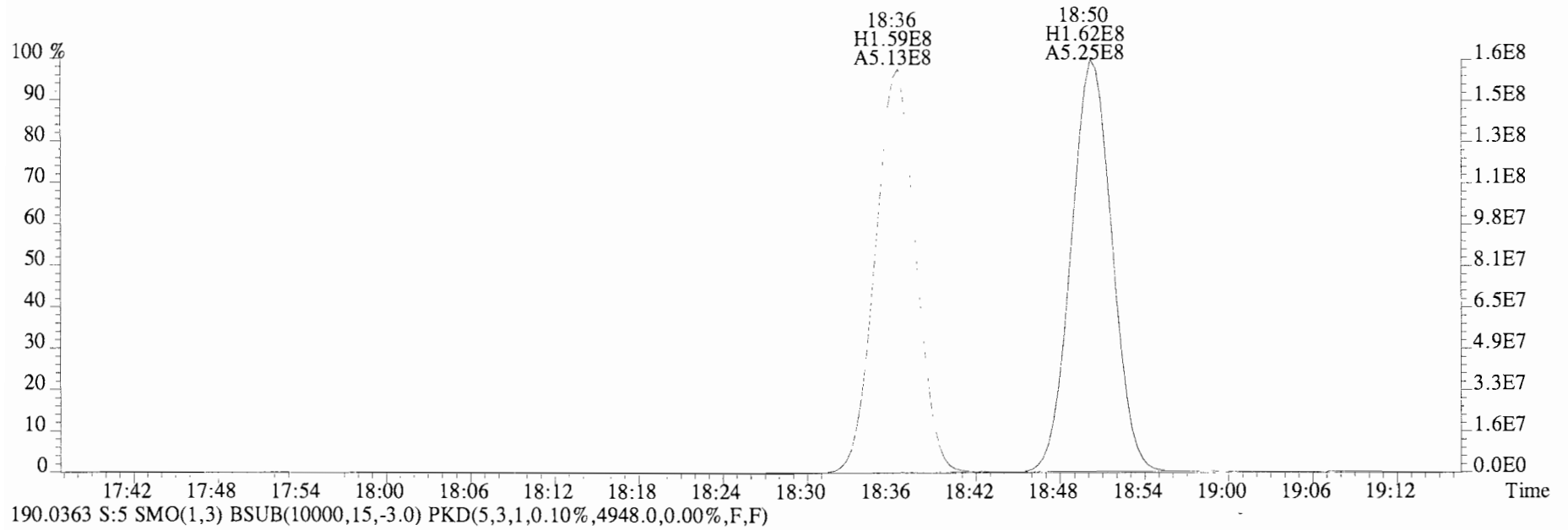
202.0766 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,29084.0,0.00%,F,F)



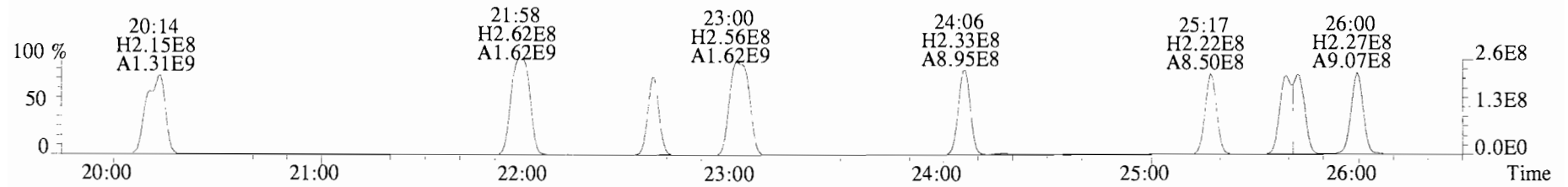
180.9880 S:5



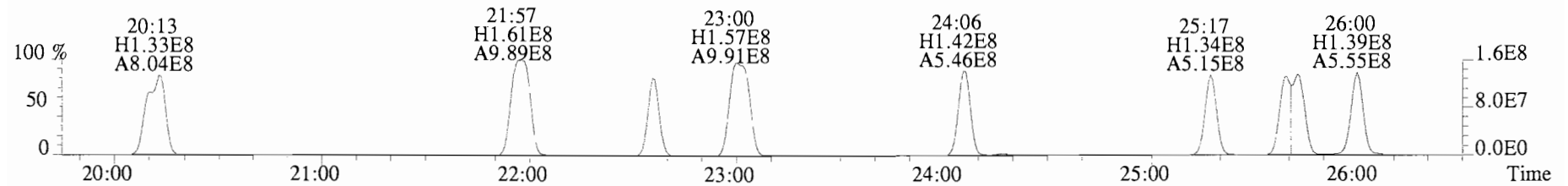
File:140620E1 #1-728 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9680.0,0.00%,F,F)



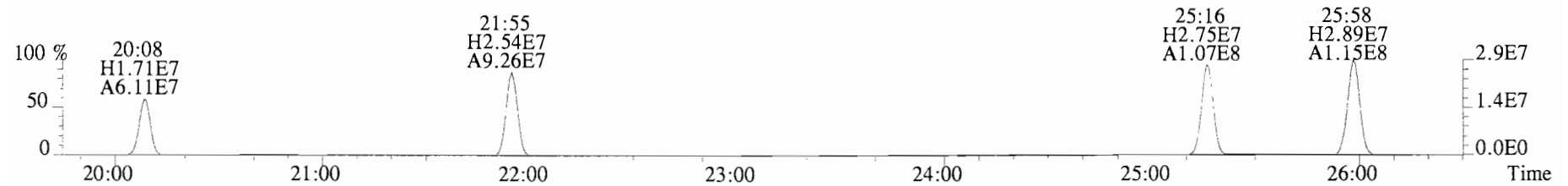
File:140620E1 #1-750 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,20576.0,0.00%,F,F)



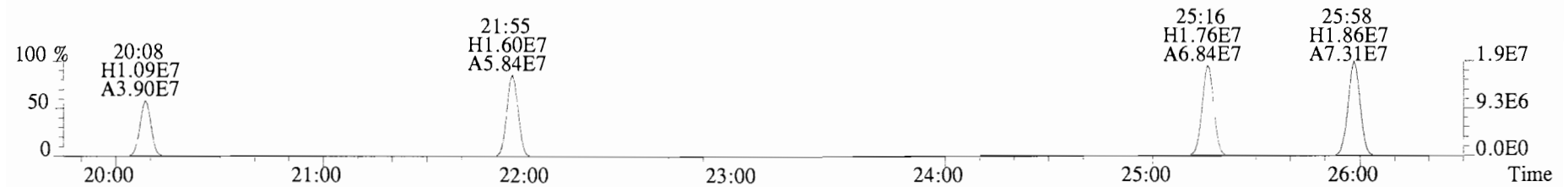
223.9974 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,105140.0,0.00%,F,F)



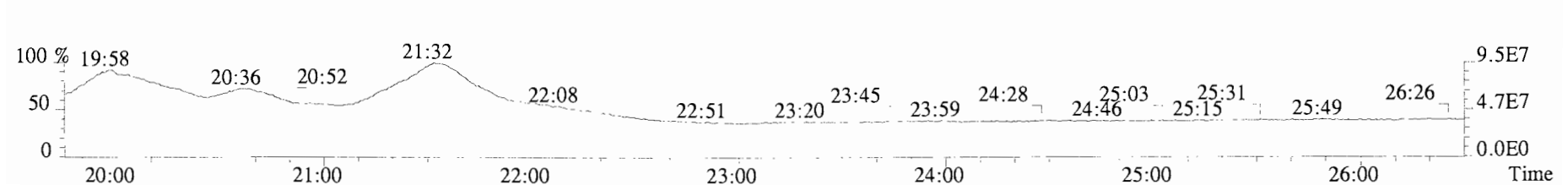
234.0406 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,6852.0,0.00%,F,F)



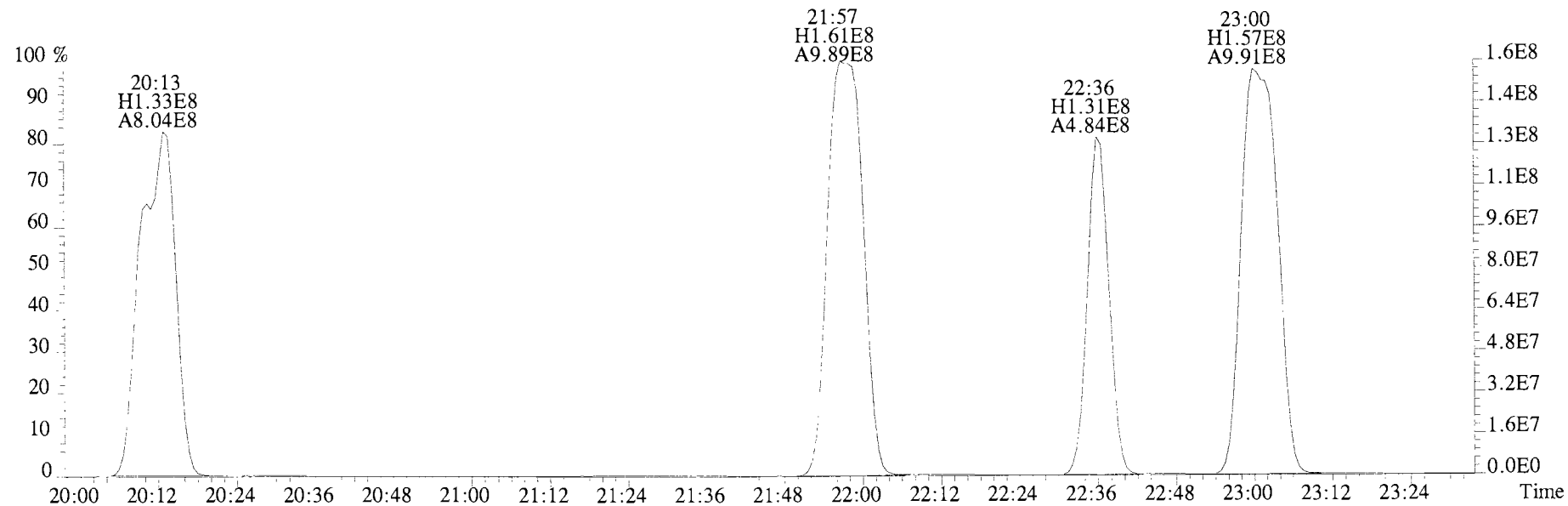
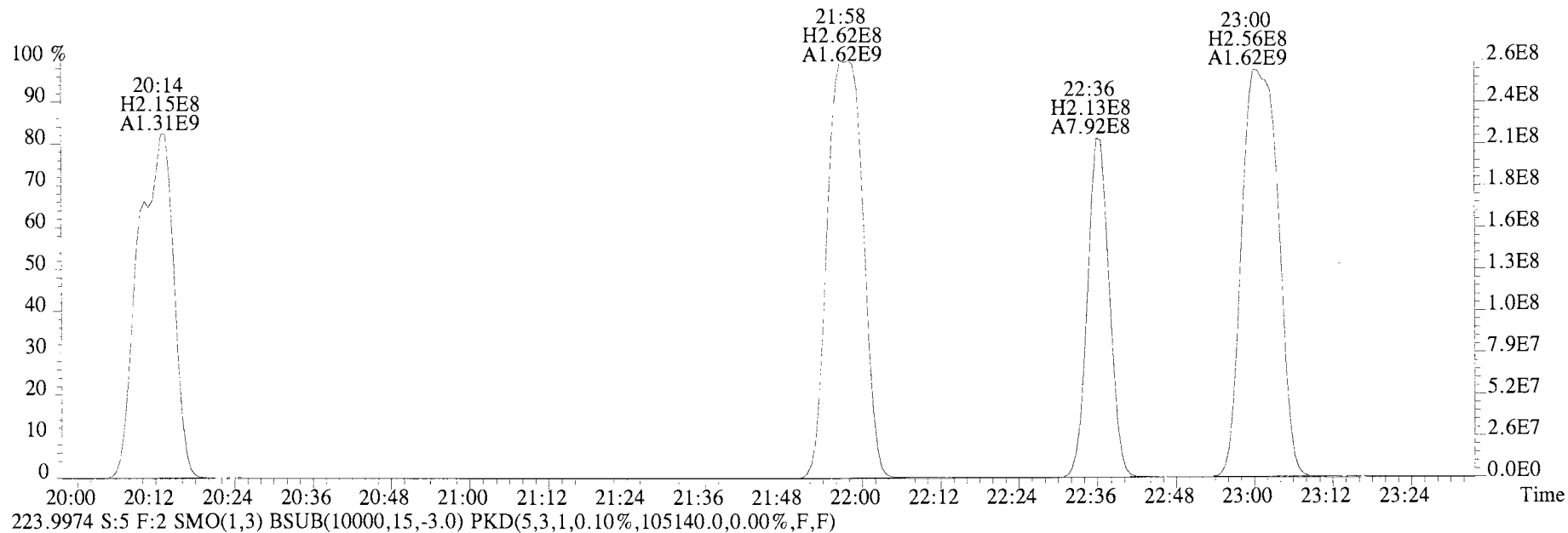
236.0376 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5736.0,0.00%,F,F)



230.9856 S:5 F:2

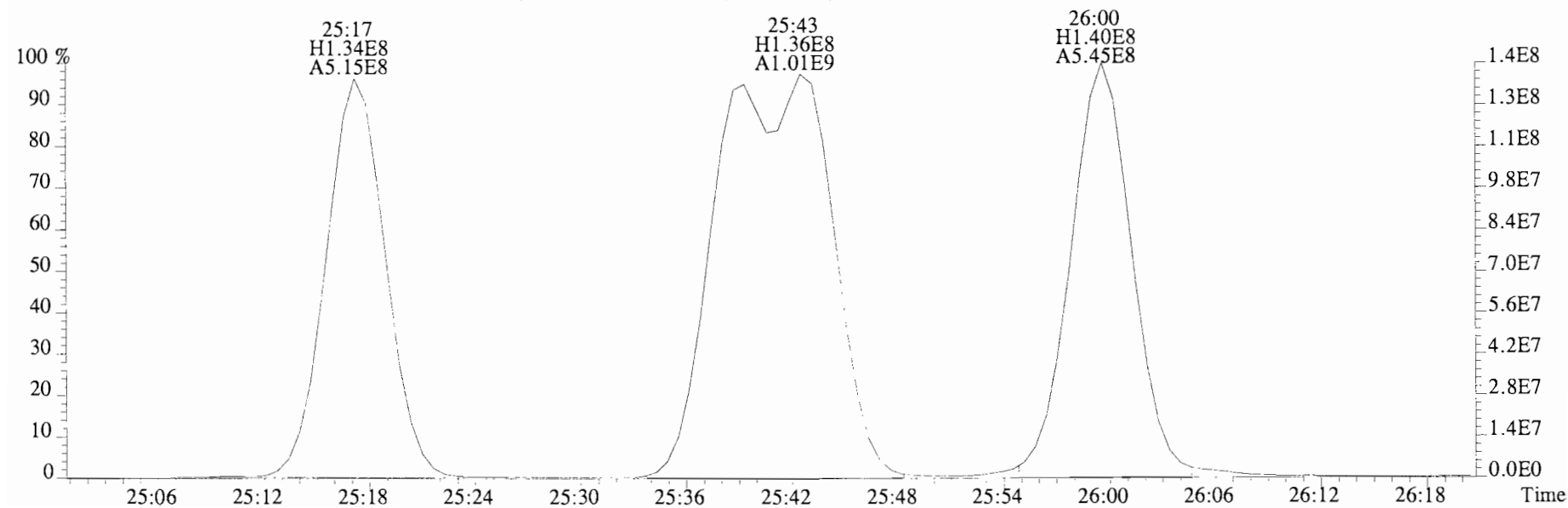
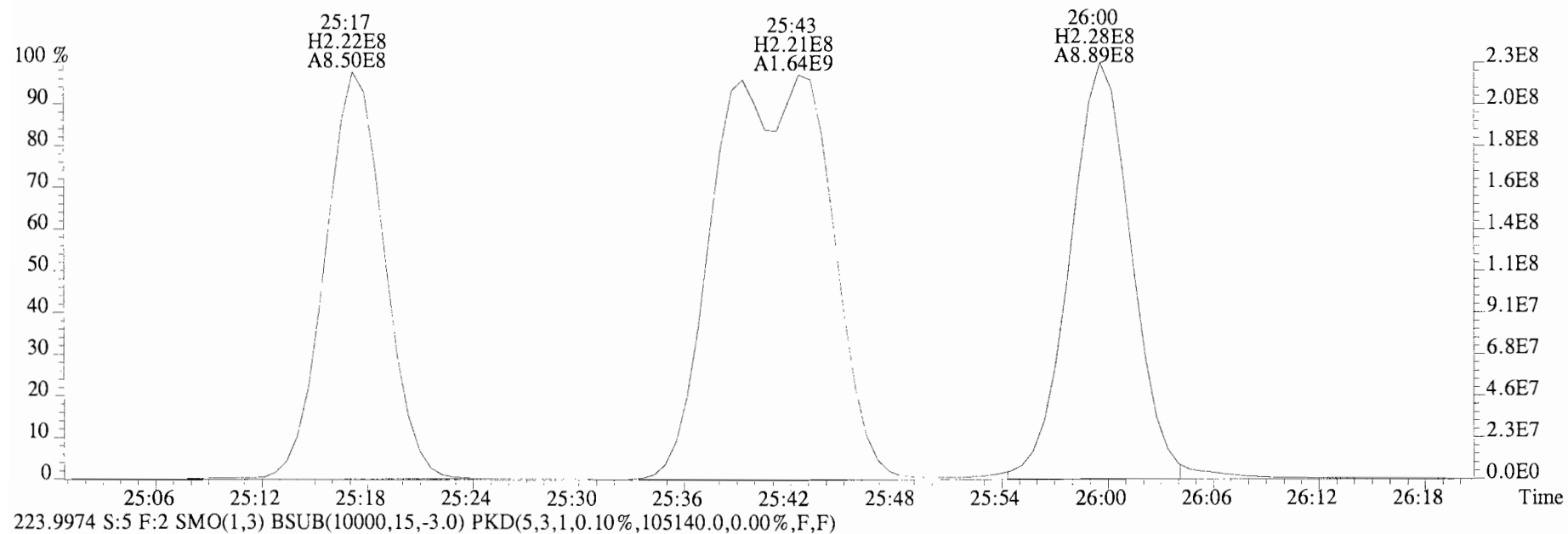


File:140620E1 #1-750 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,20576.0,0.00%,F,F)

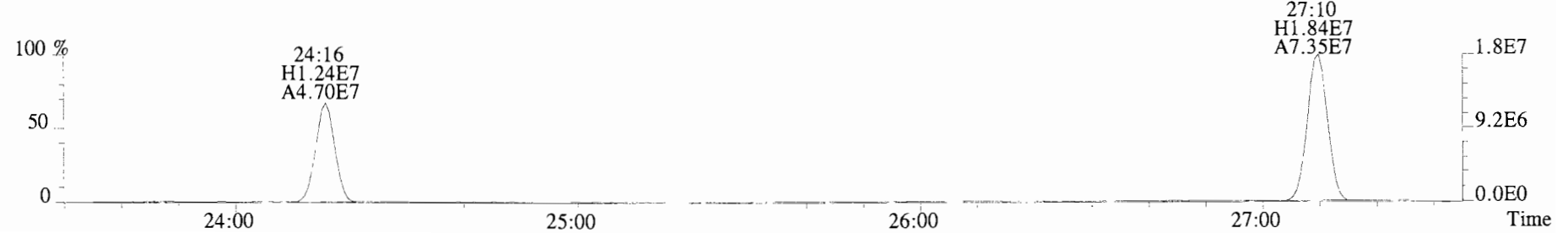
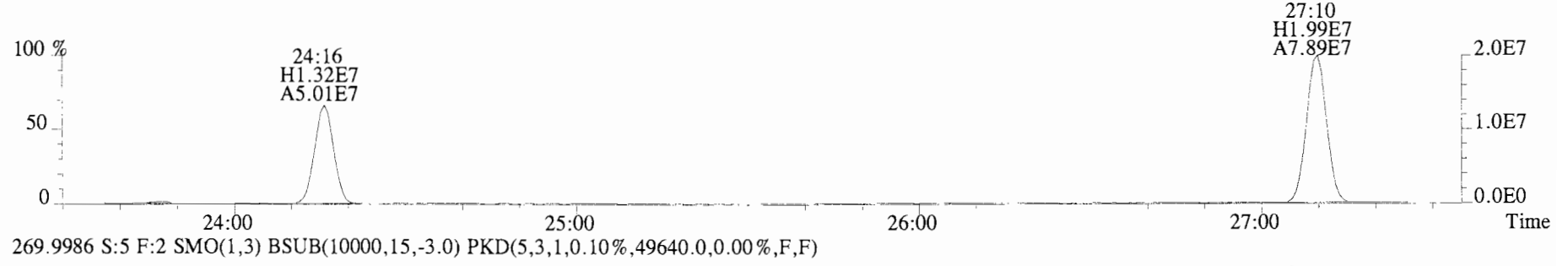
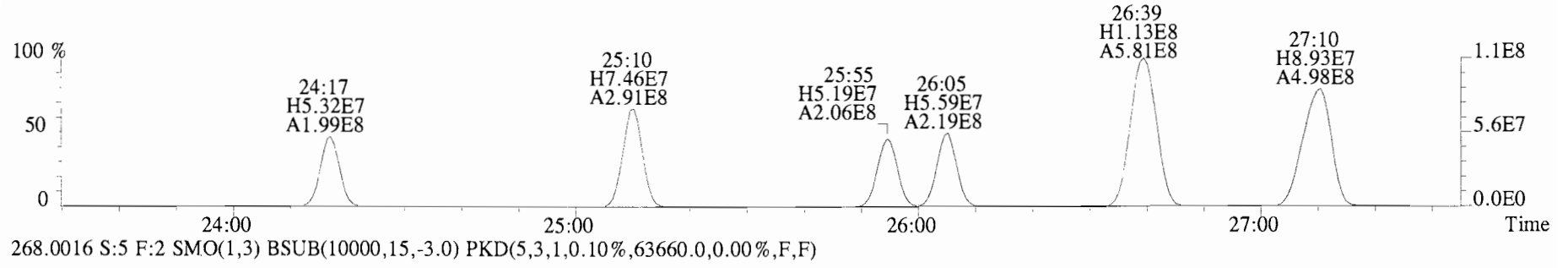
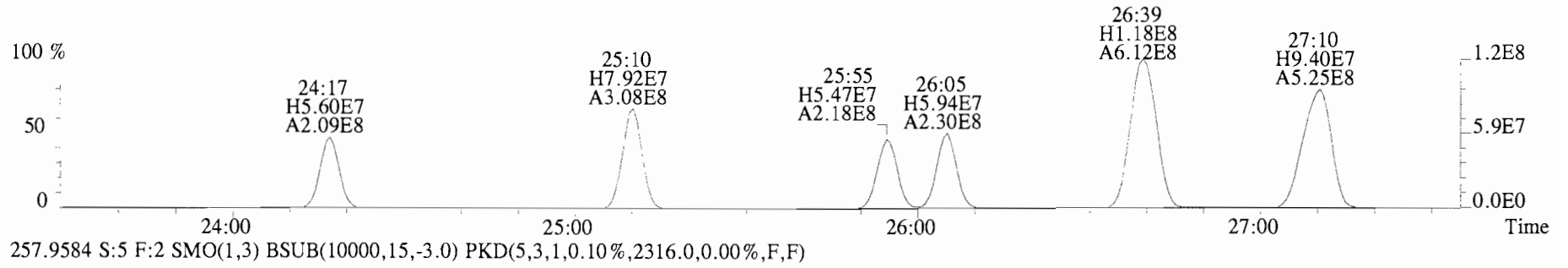




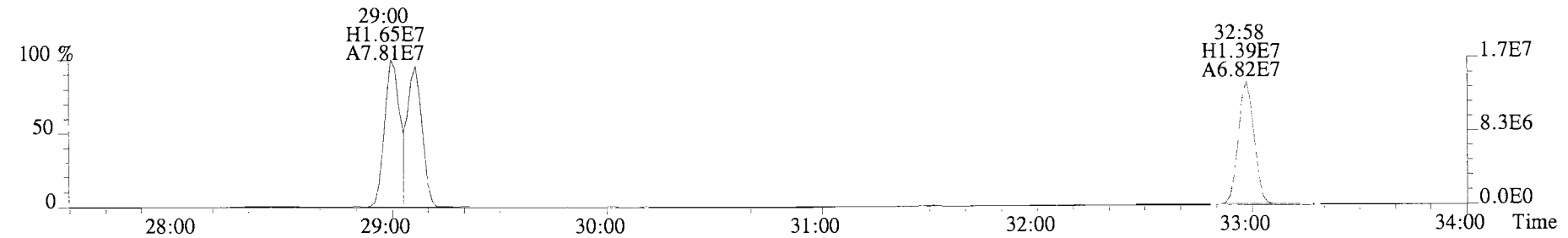
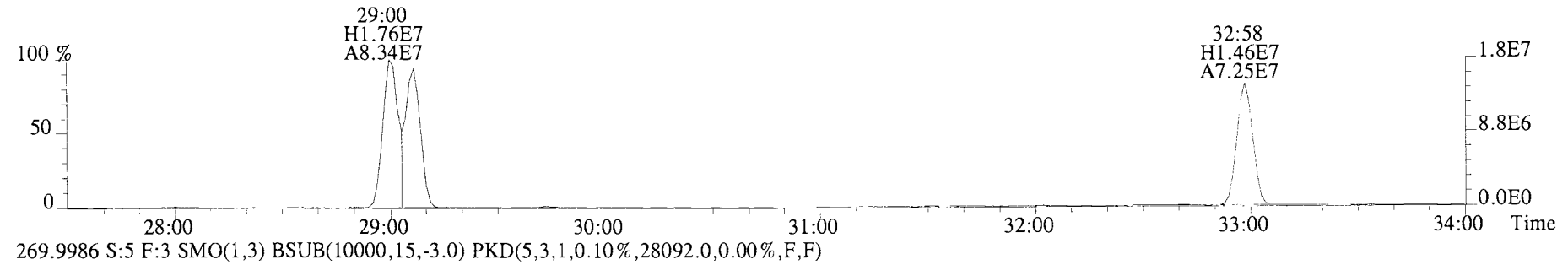
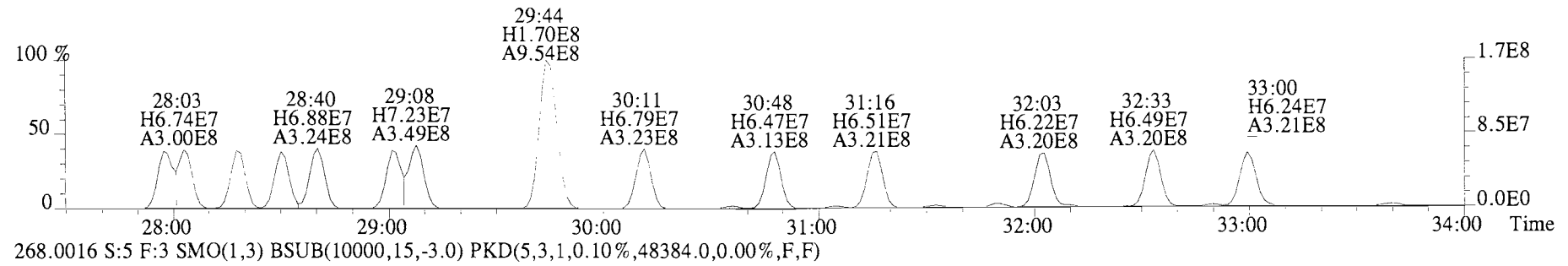
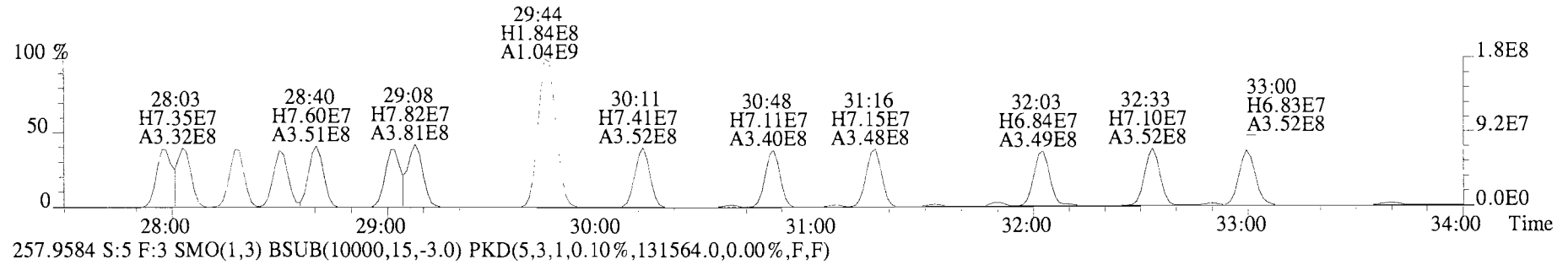
File:140620E1 #1-750 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,20576.0,0.00%,F,F)



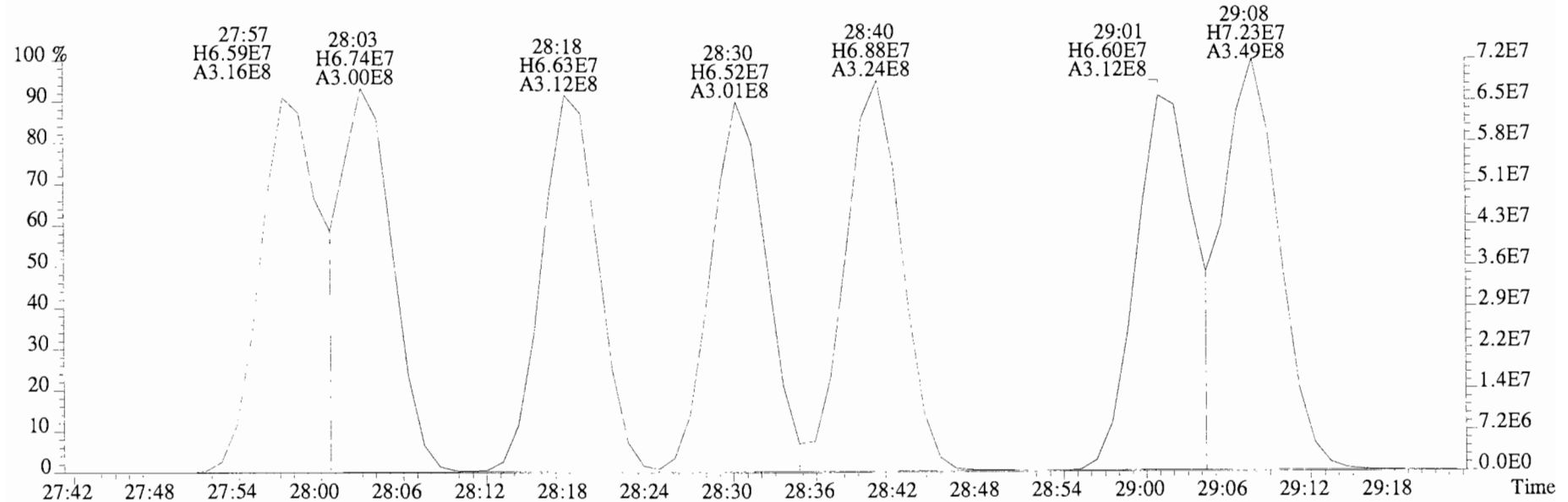
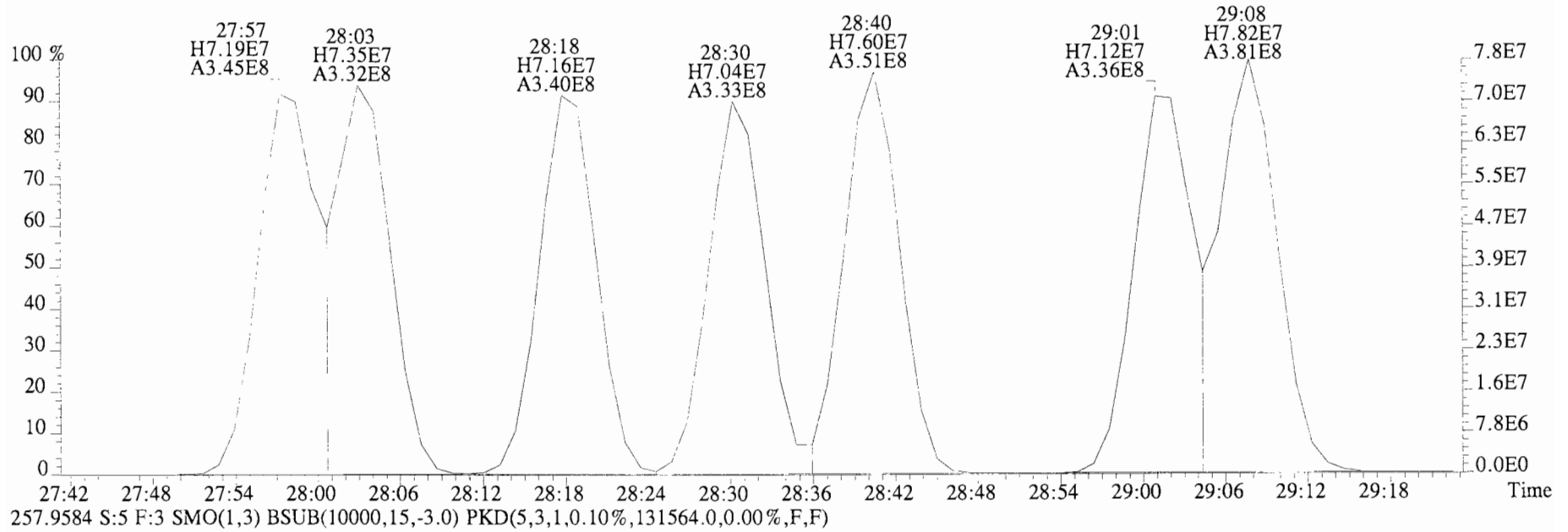
File:140620E1 #1-750 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3500.0,0.00%,F,F)



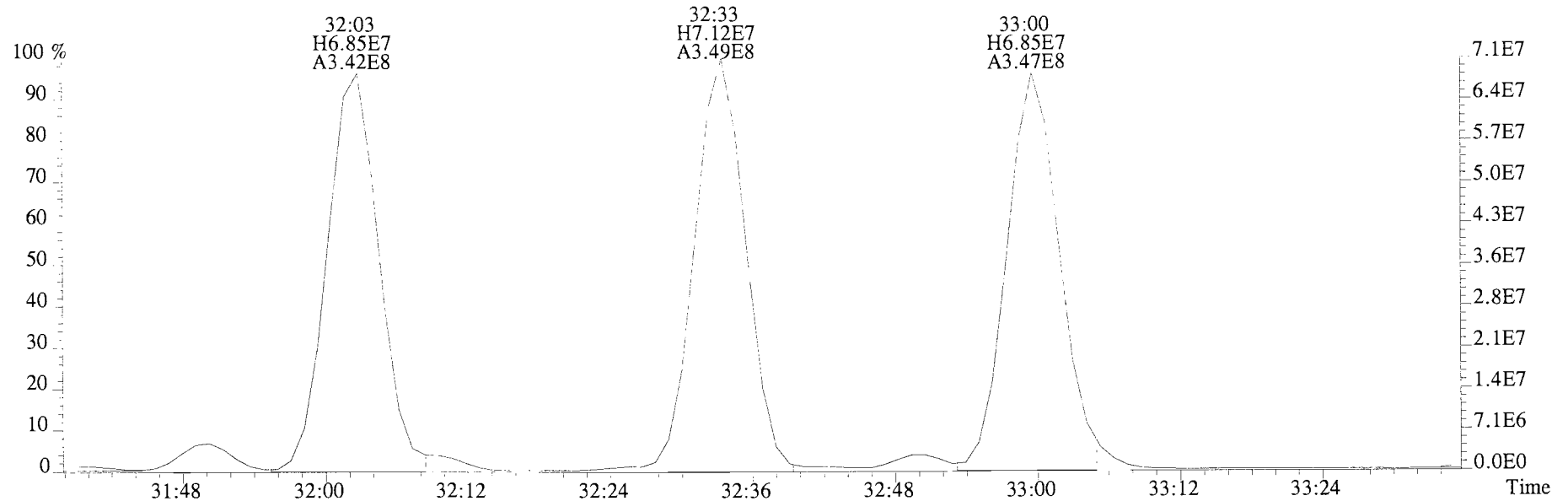
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,160960.0,0.00%,F,F)



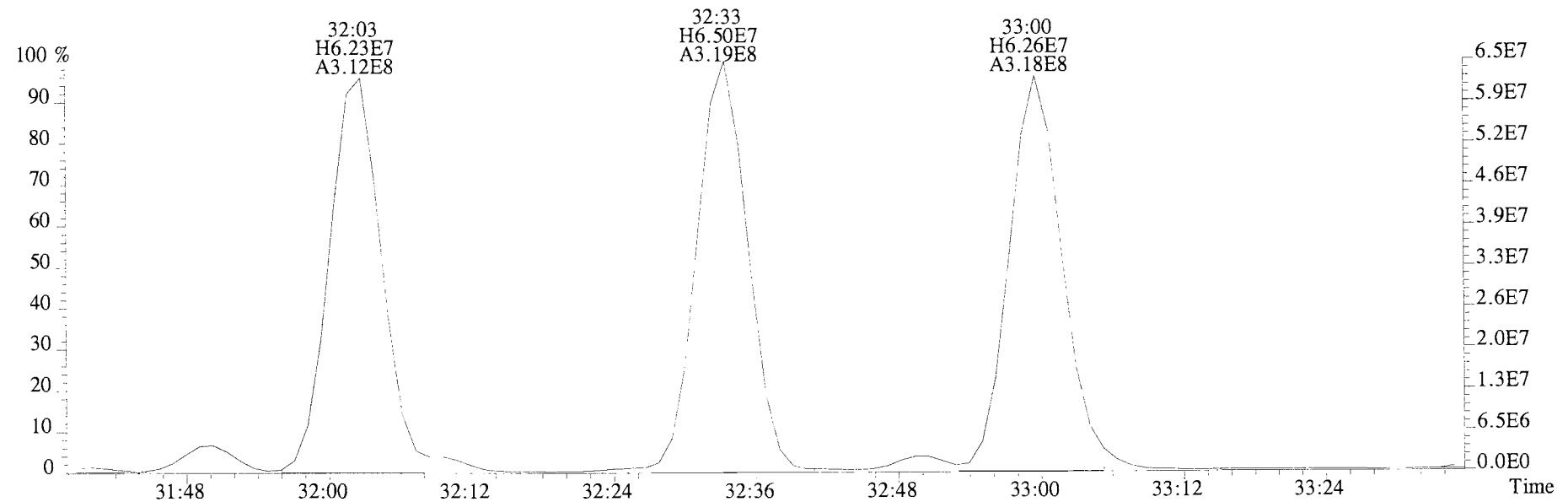
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,160960.0,0.00%,F,F)



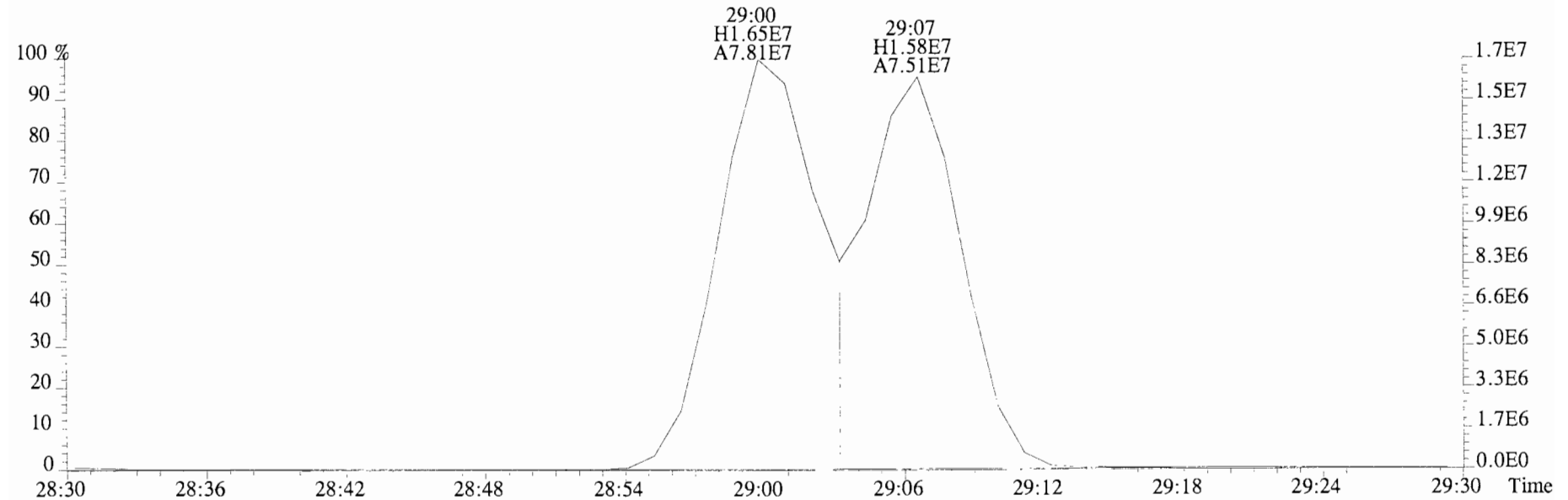
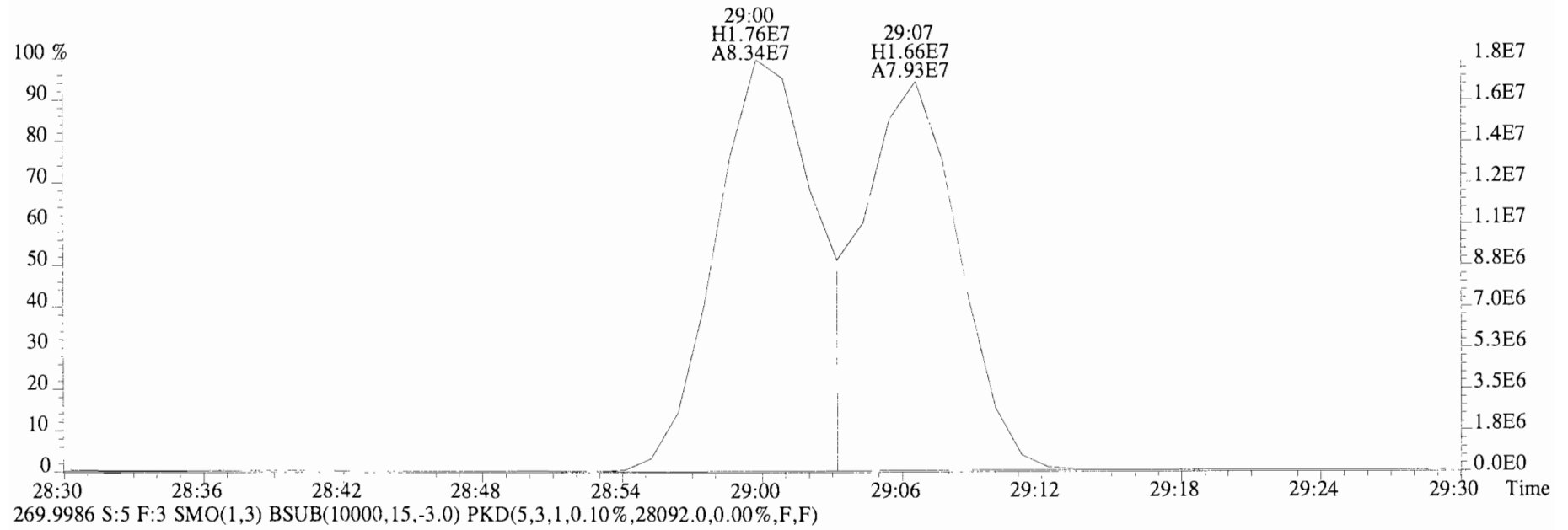
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,160960.0,0.00%,F,F)



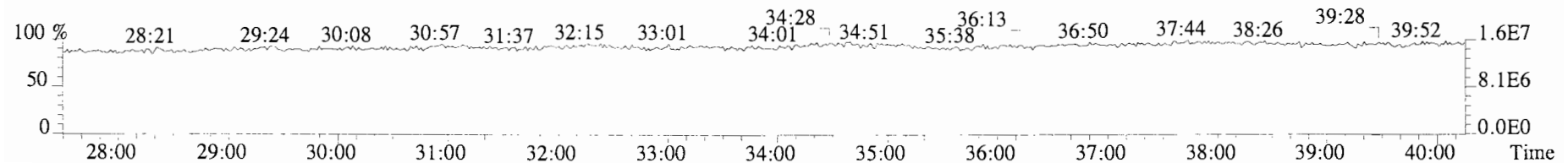
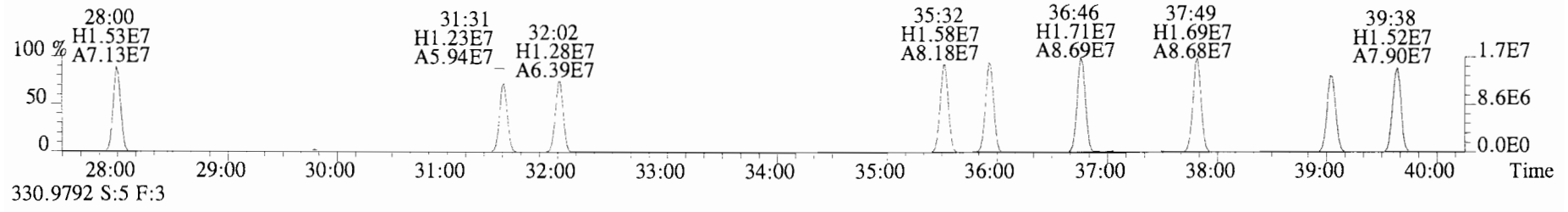
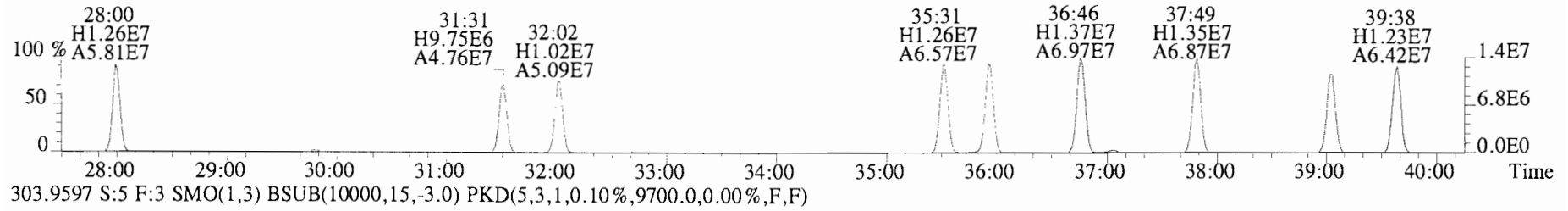
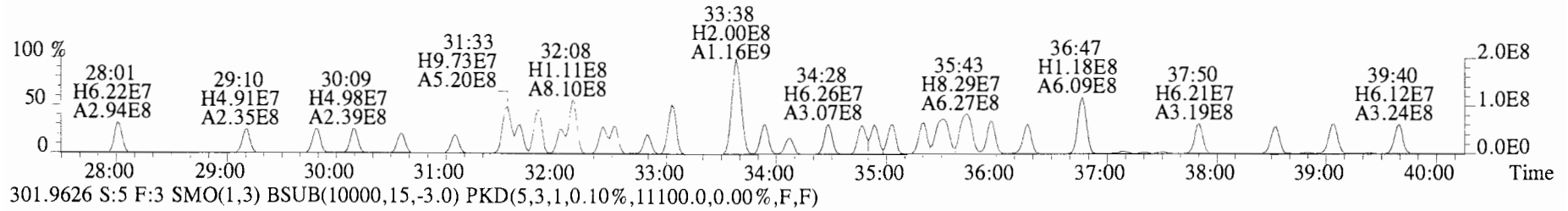
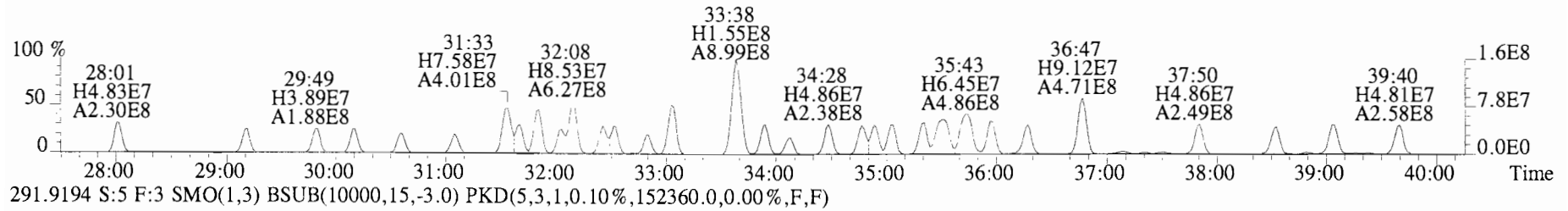
257.9584 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,131564.0,0.00%,F,F)



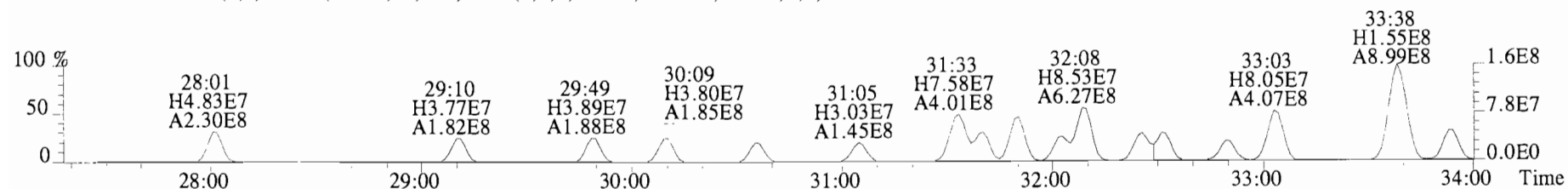
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,48384.0,0.00%,F,F)



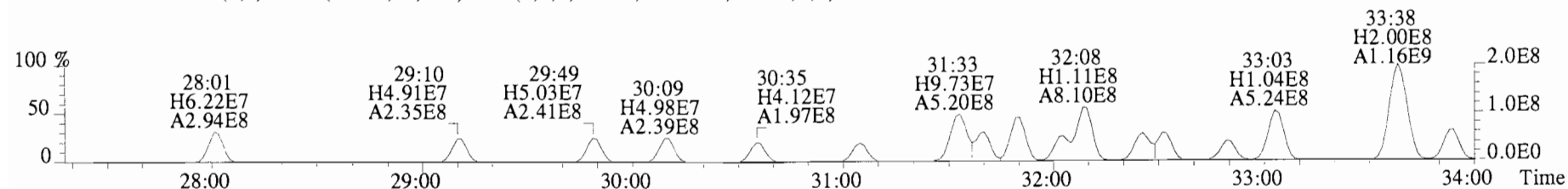
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



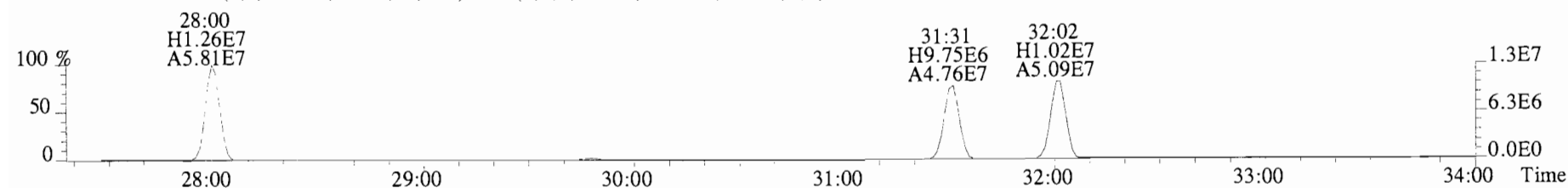
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



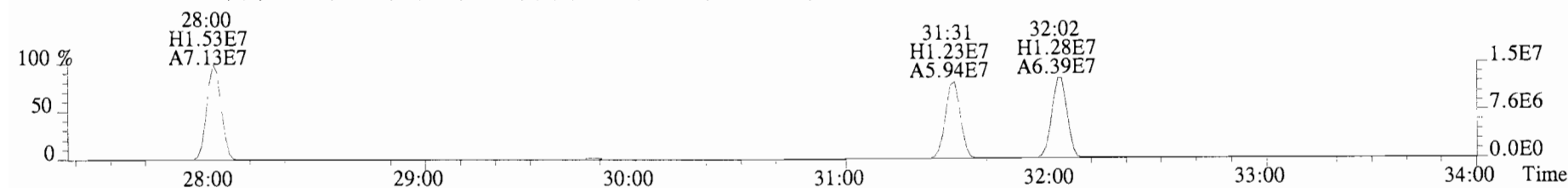
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,152360.0,0.00%,F,F)



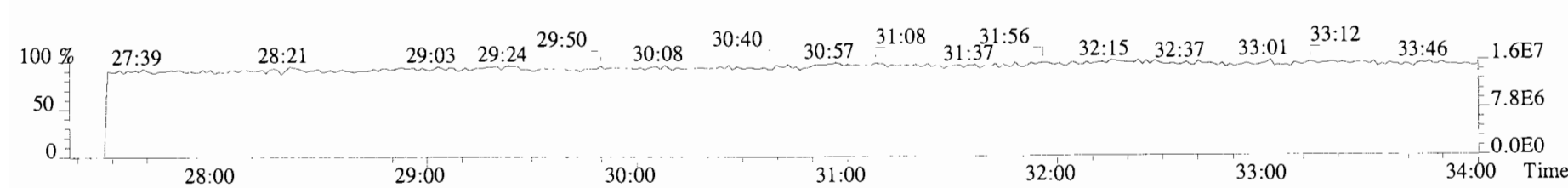
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,11100.0,0.00%,F,F)



303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9700.0,0.00%,F,F)

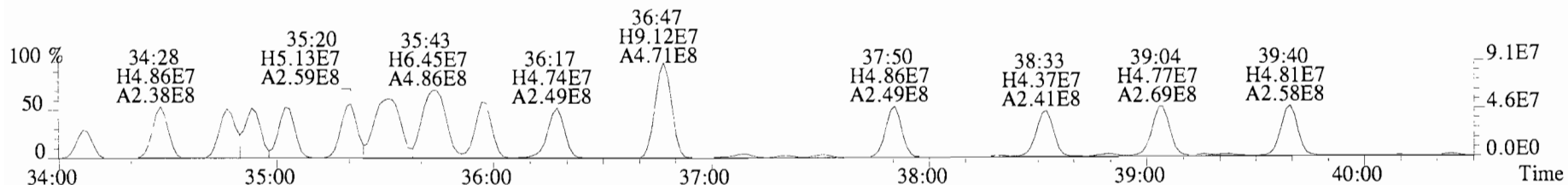


330.9792 S:5 F:3

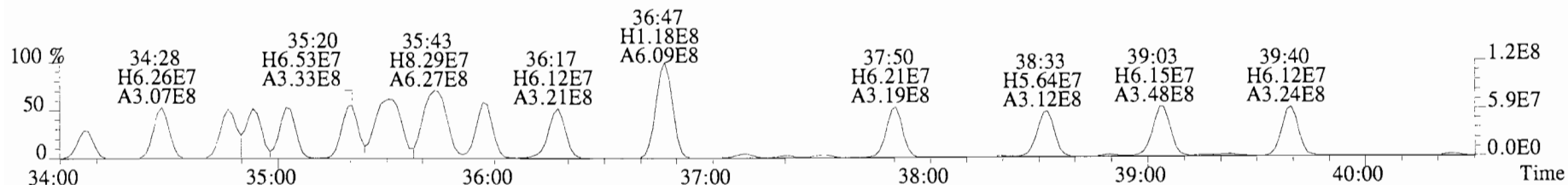




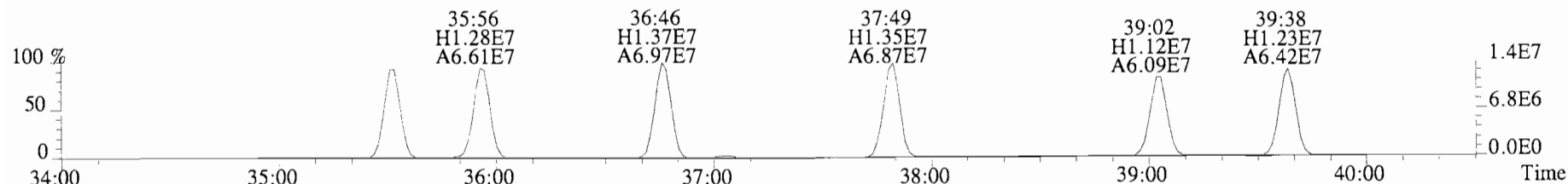
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



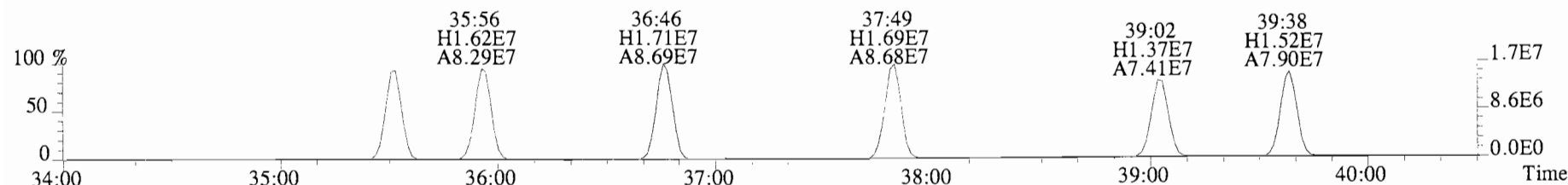
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,152360.0,0.00%,F,F)



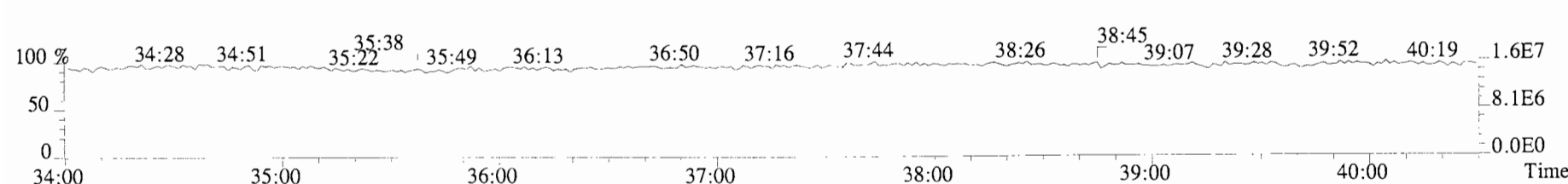
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,11100.0,0.00%,F,F)



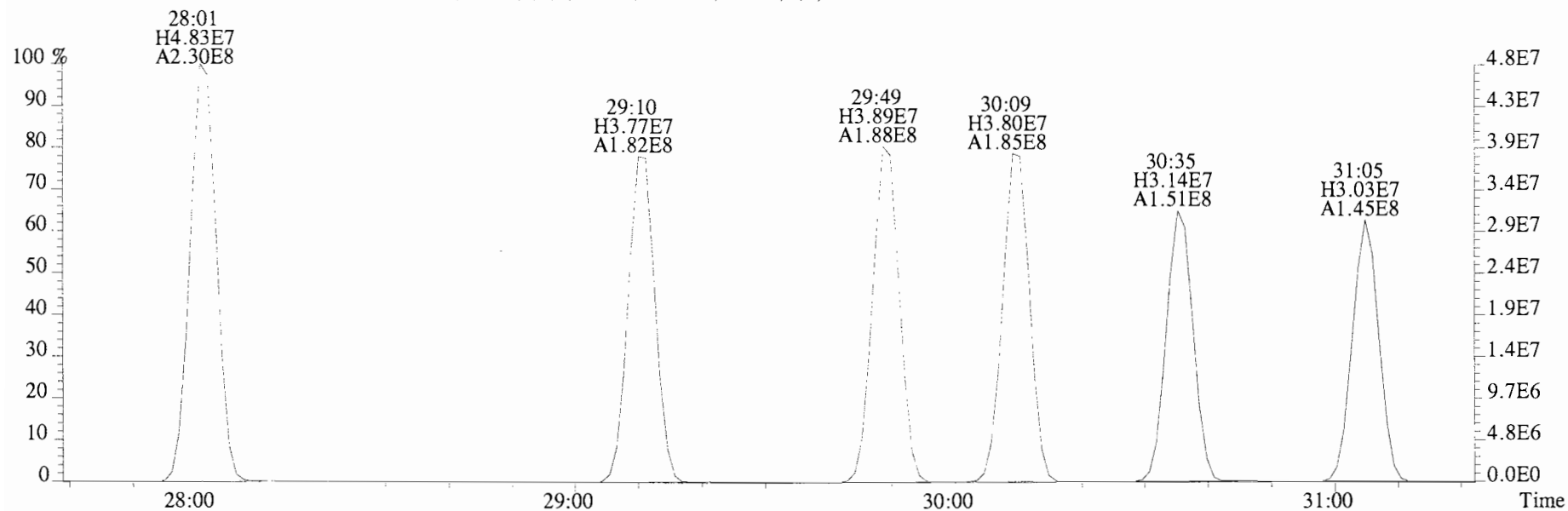
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9700.0,0.00%,F,F)



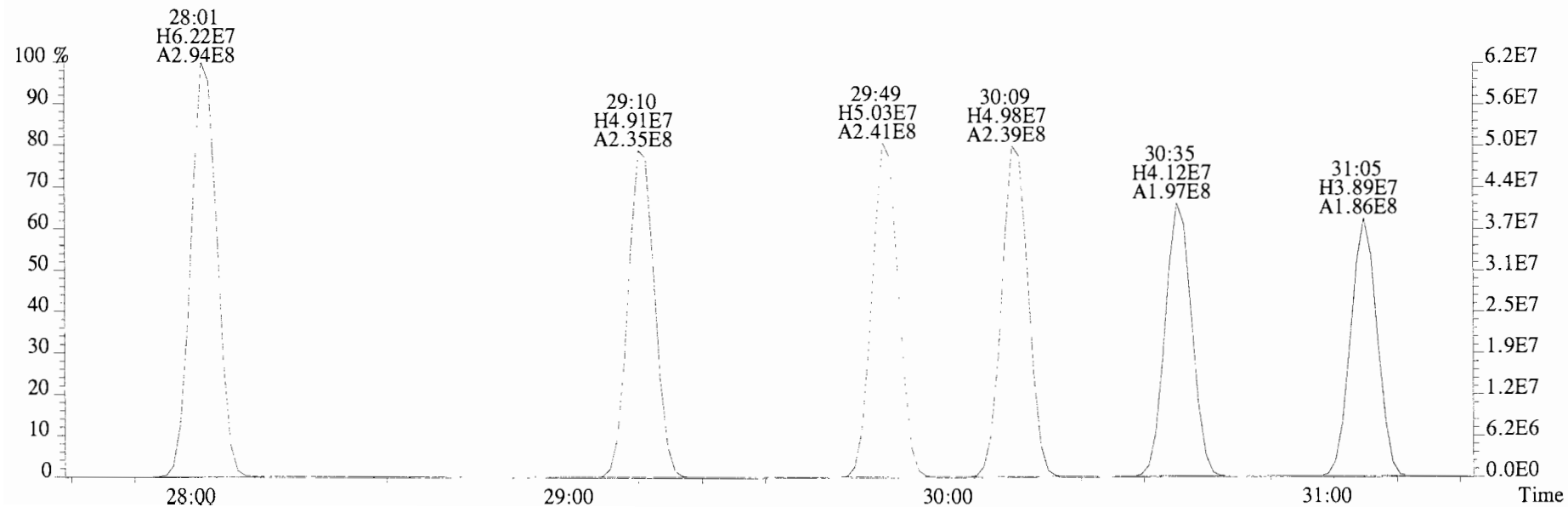
330.9792 S:5 F:3



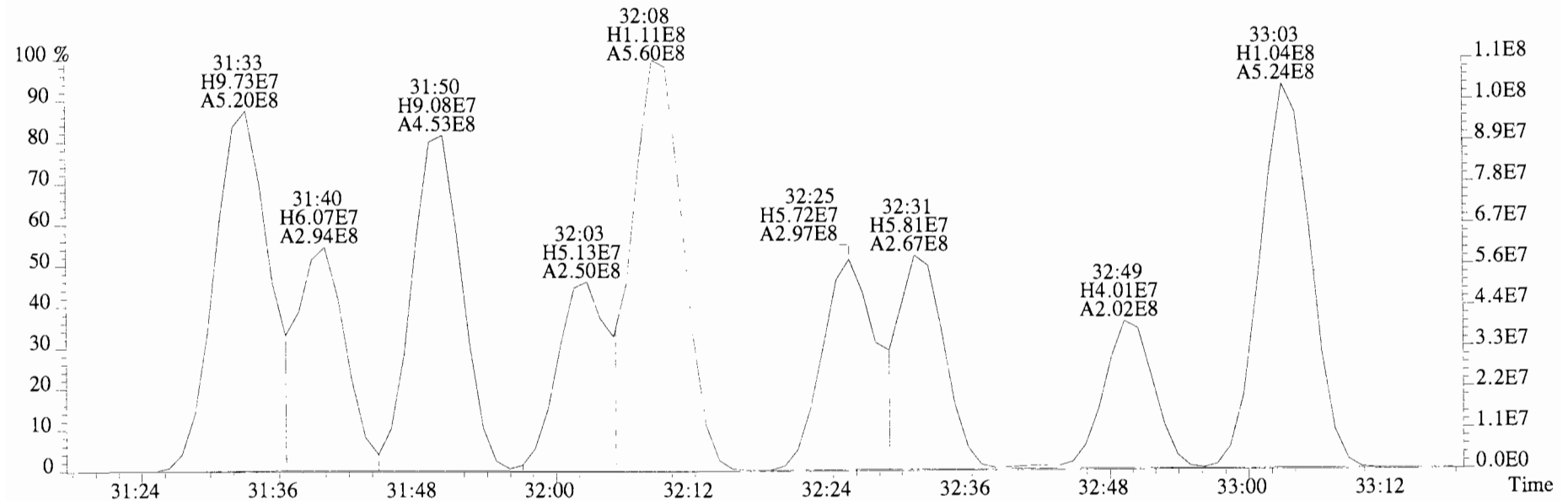
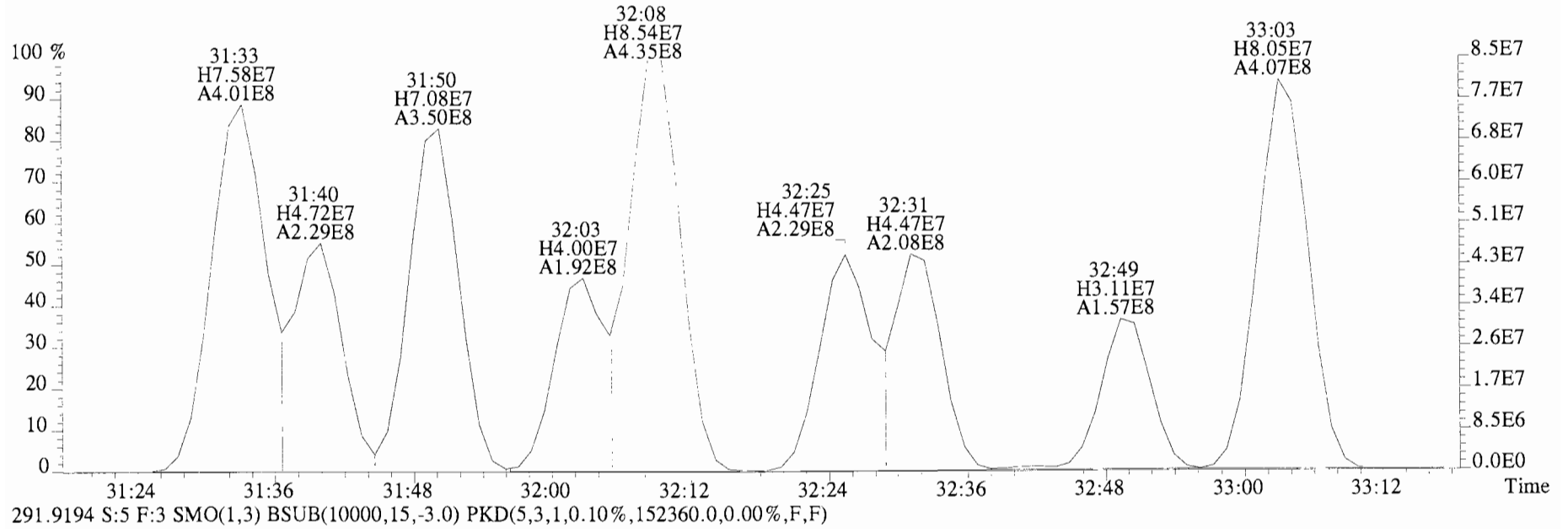
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



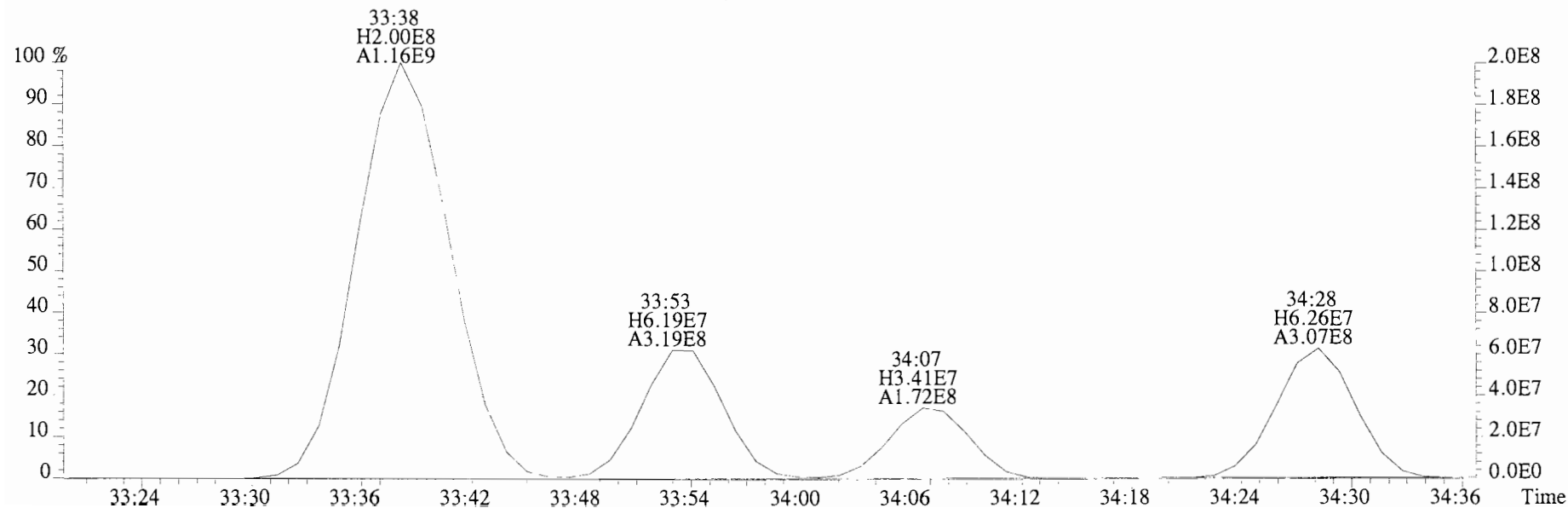
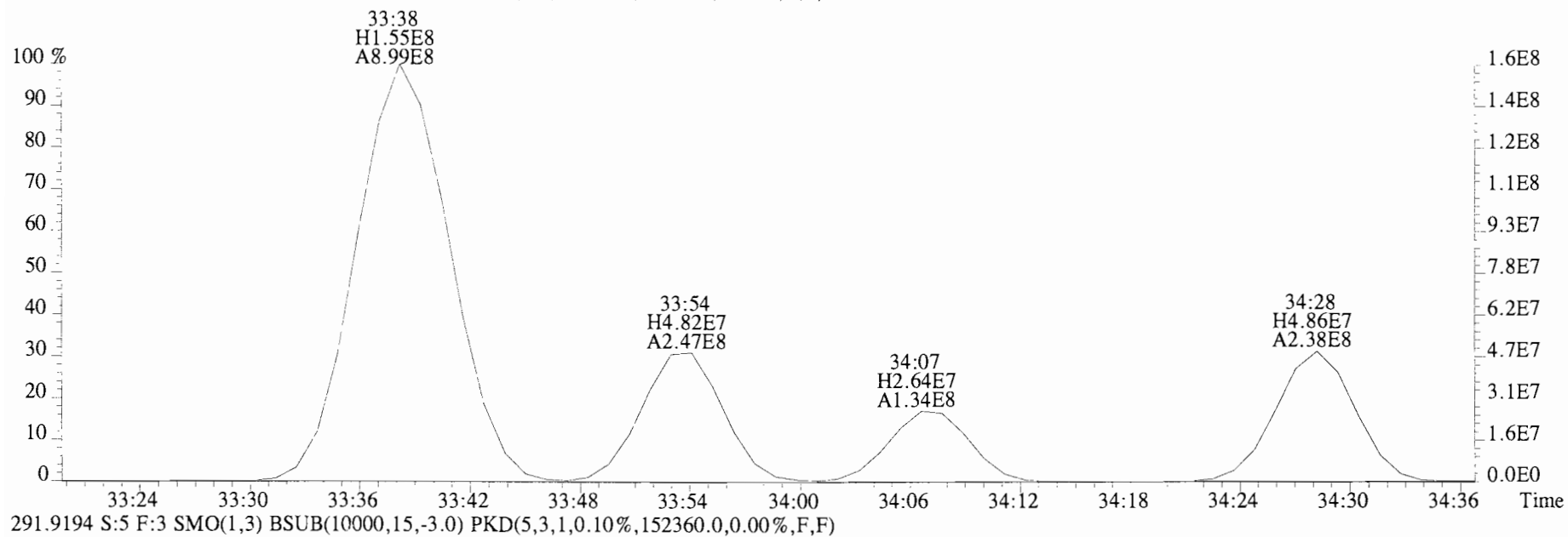
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,152360.0,0.00%,F,F)



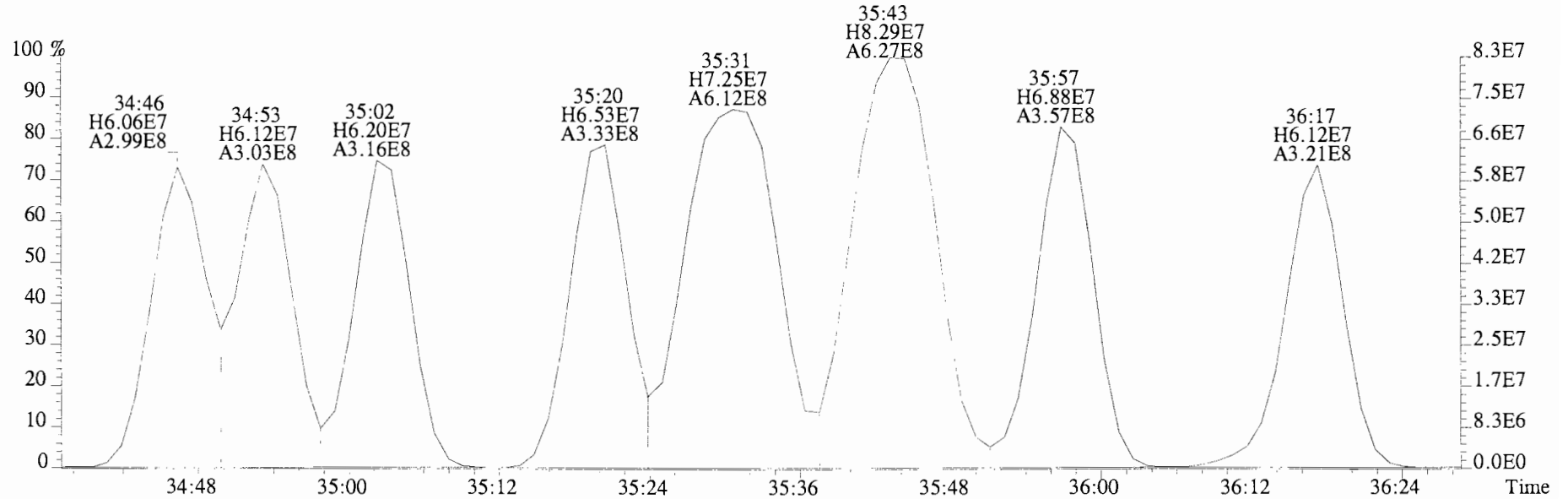
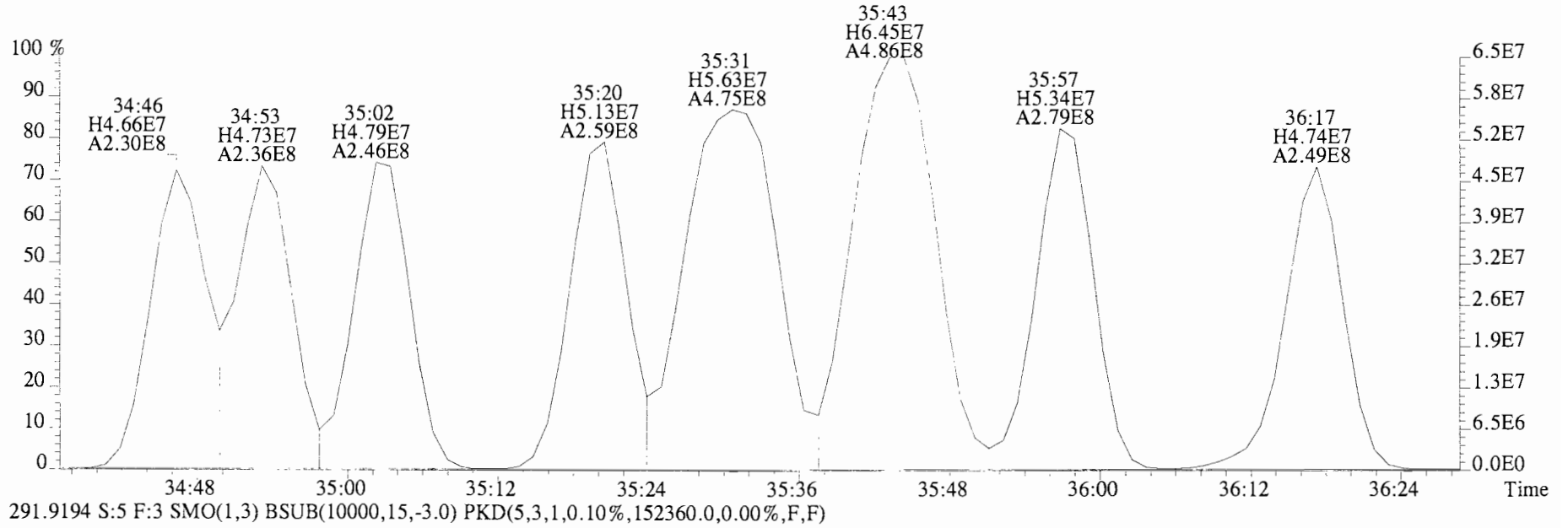
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



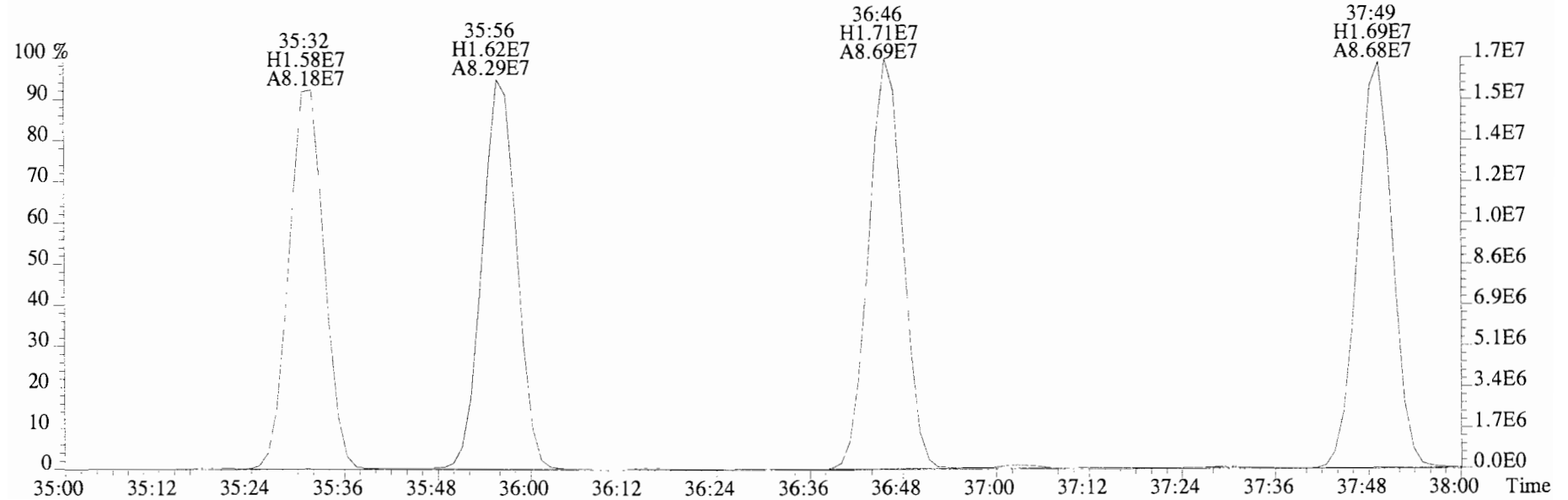
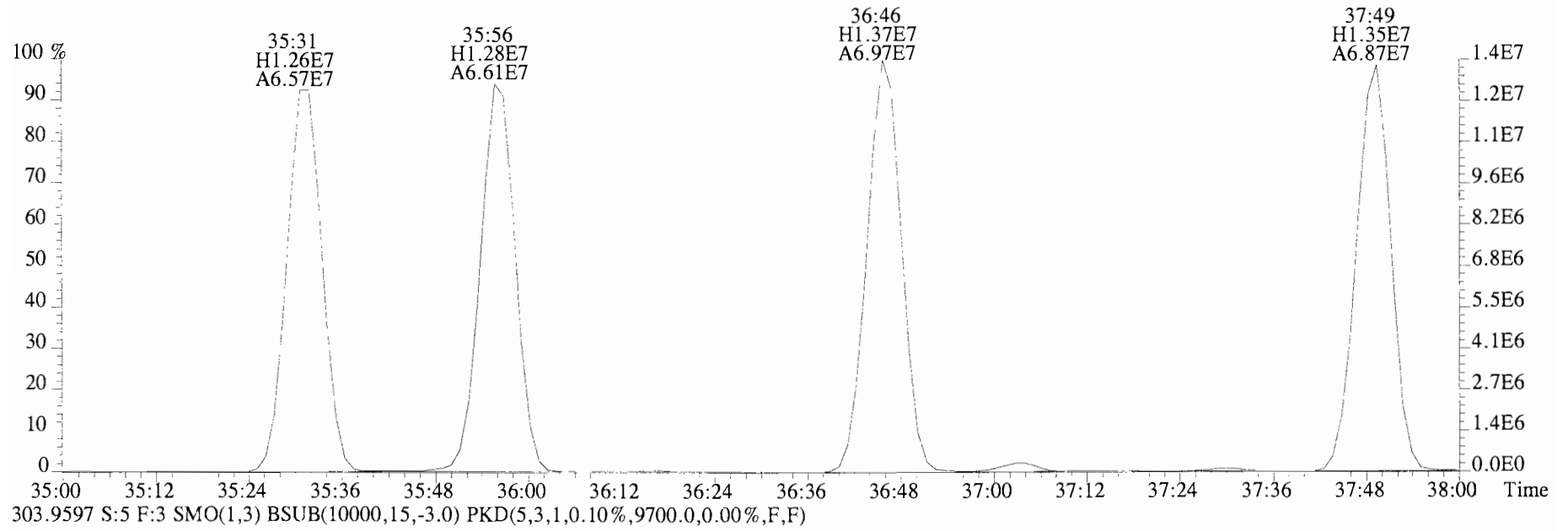
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



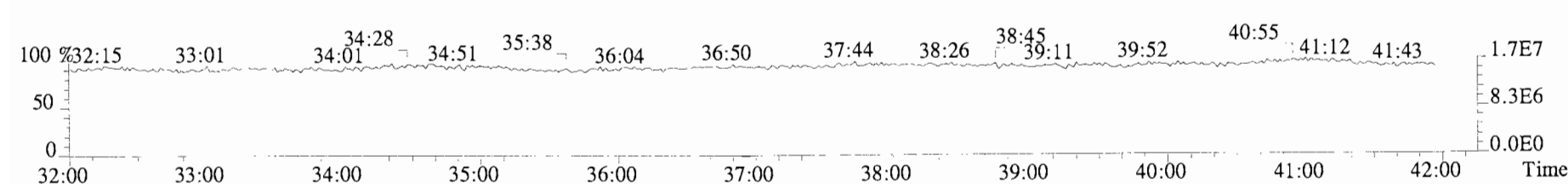
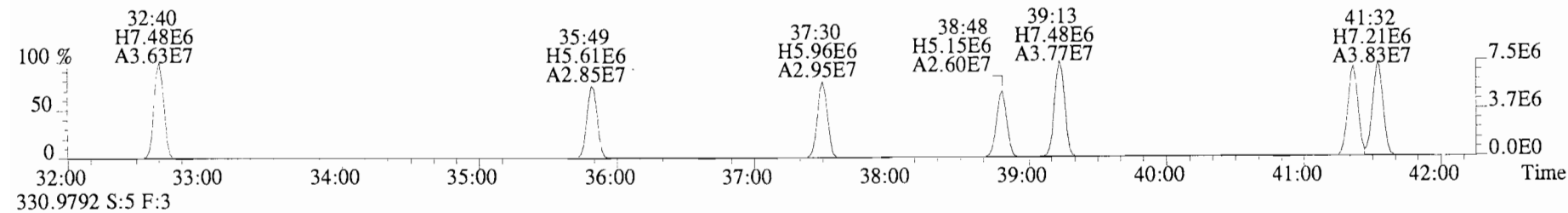
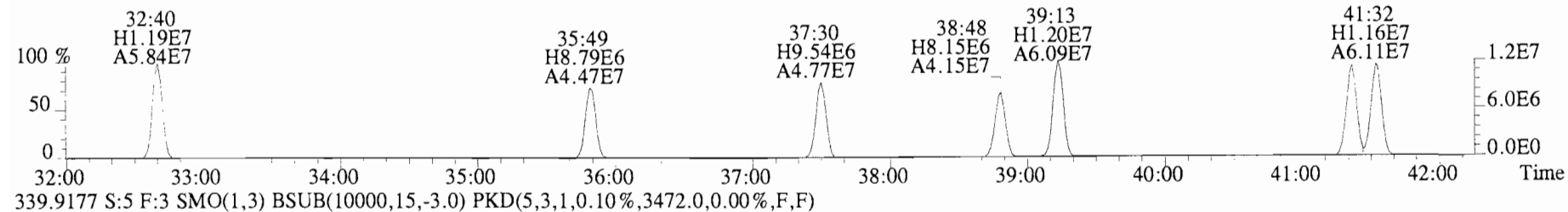
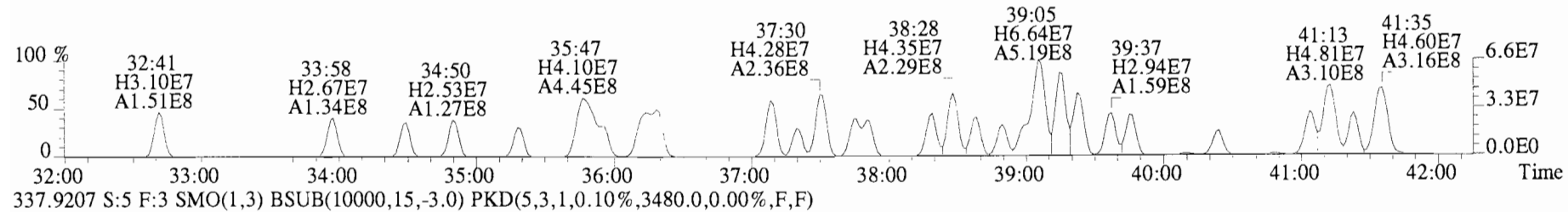
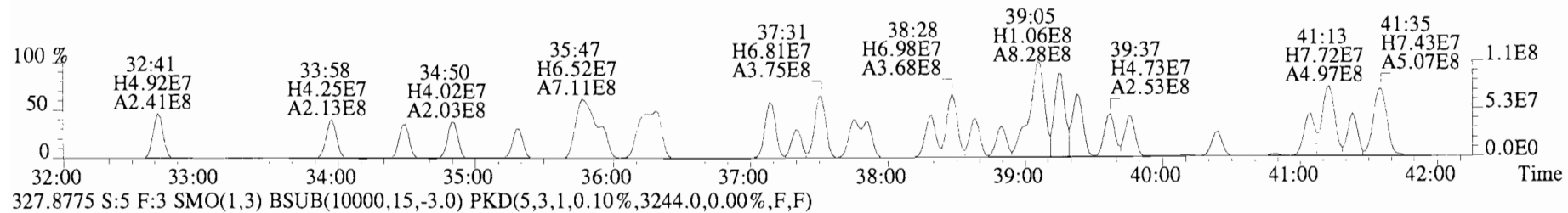
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,31924.0,0.00%,F,F)



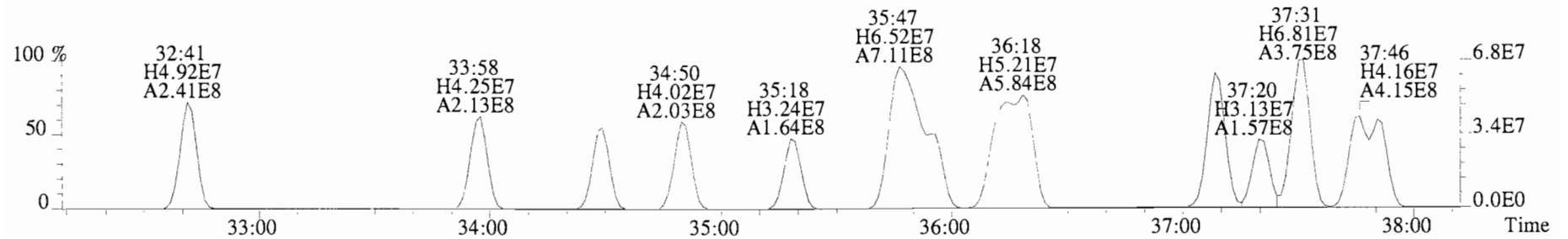
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,11100.0,0.00%,F,F)



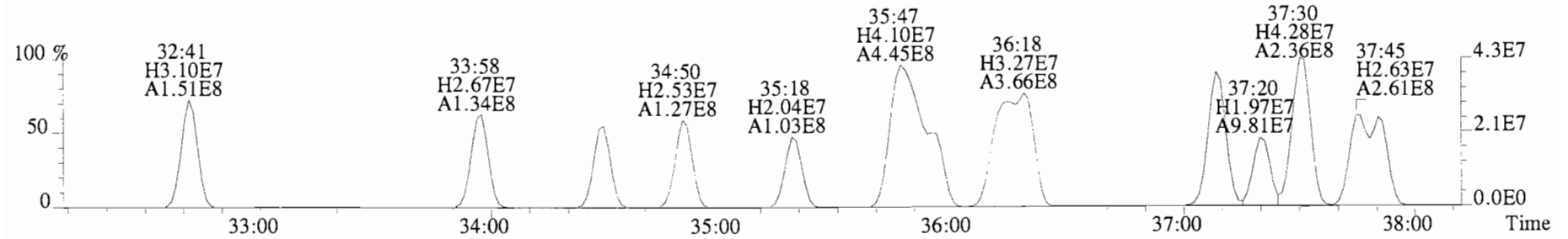
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



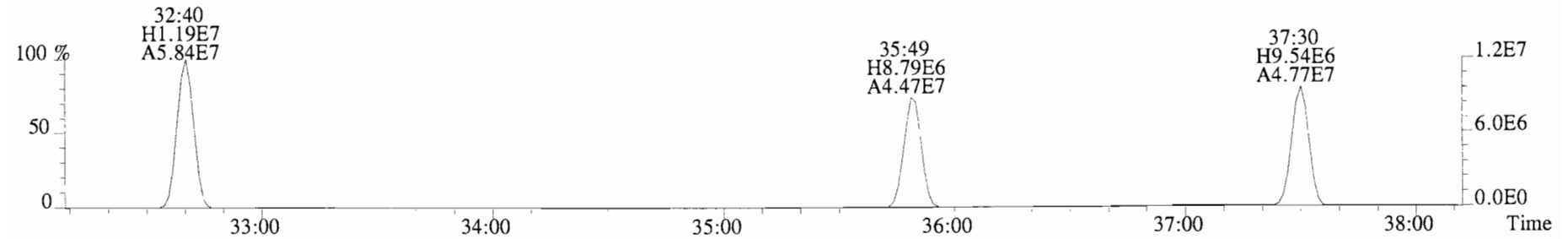
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



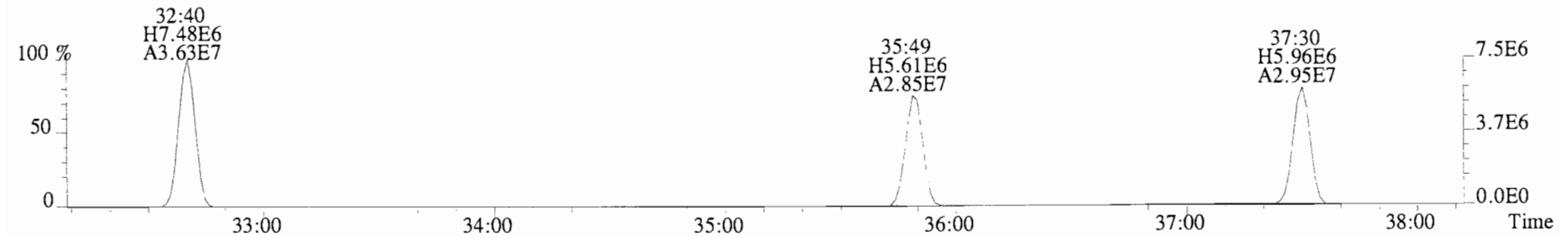
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3244.0,0.00%,F,F)



337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3480.0,0.00%,F,F)

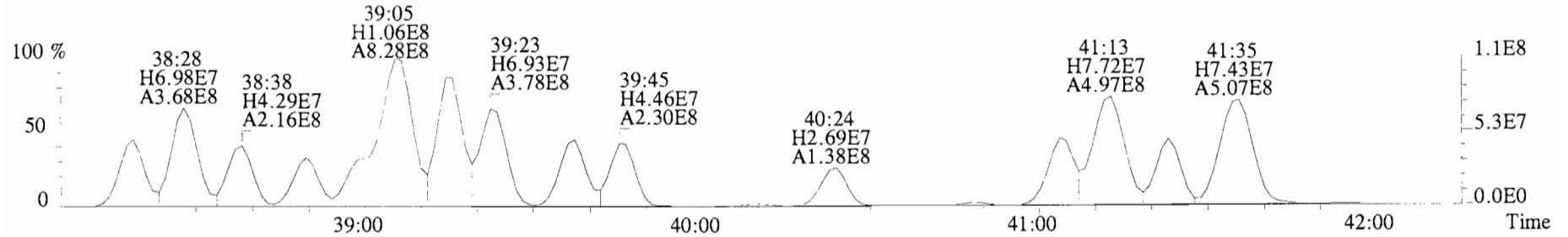


339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3472.0,0.00%,F,F)

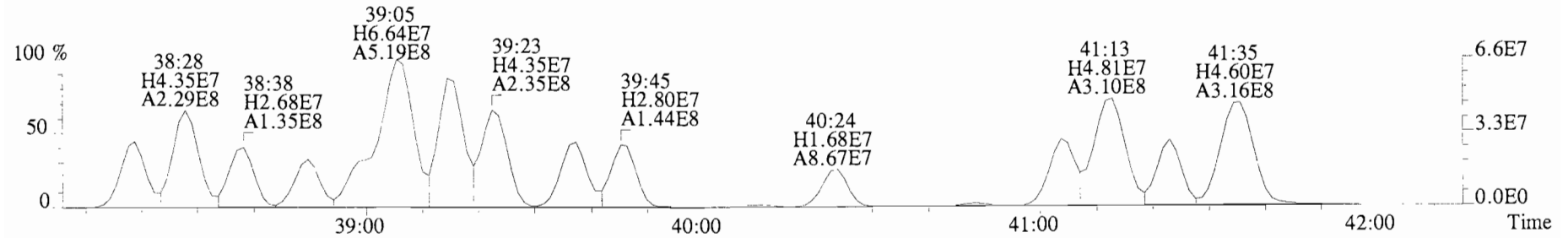




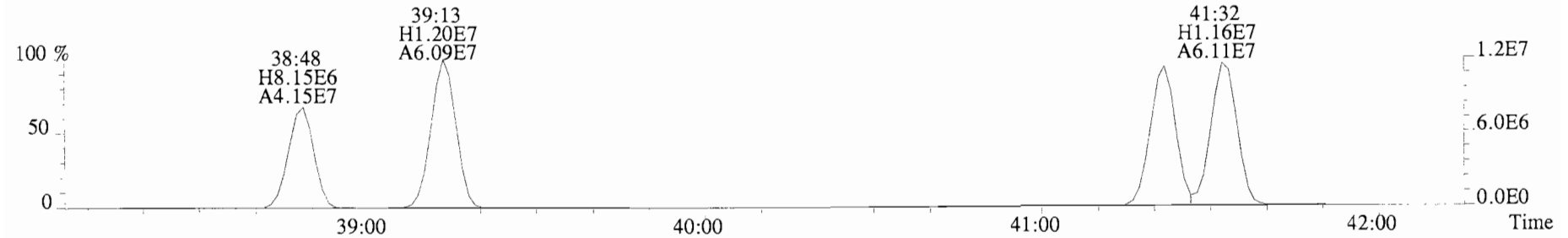
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



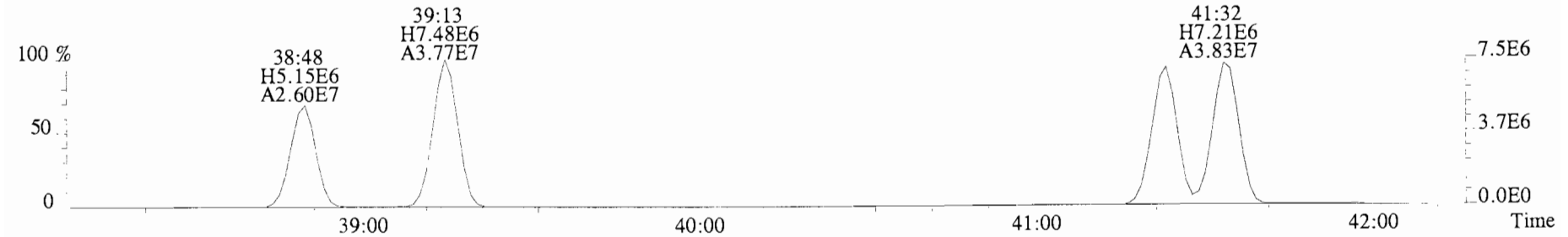
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3244.0,0.00%,F,F)



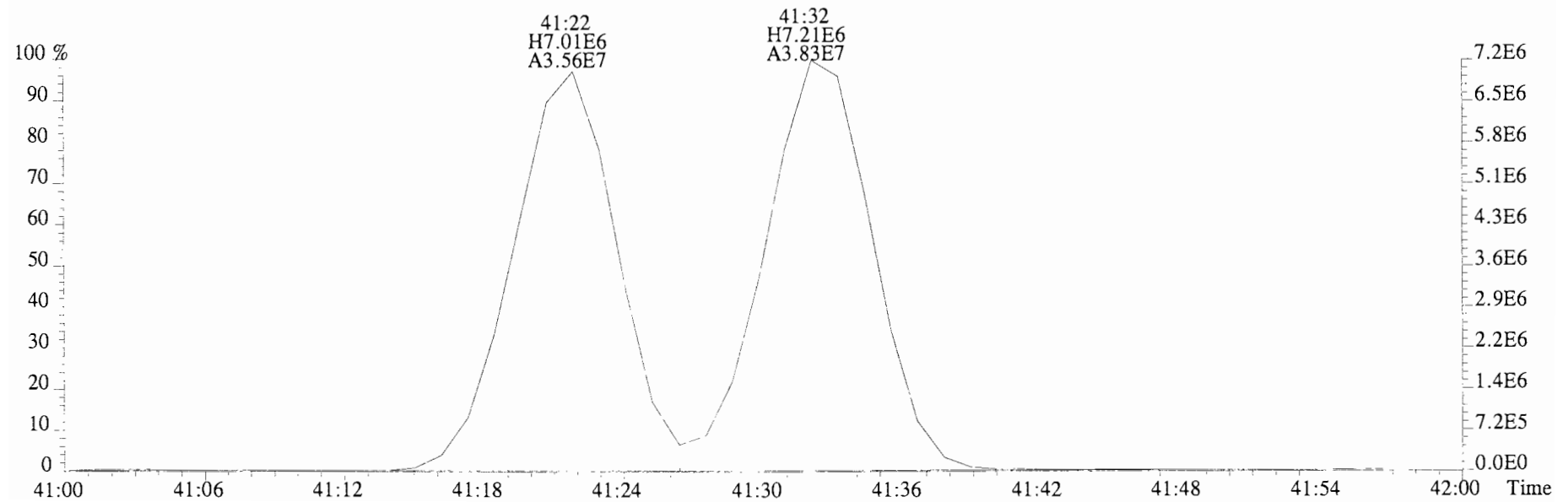
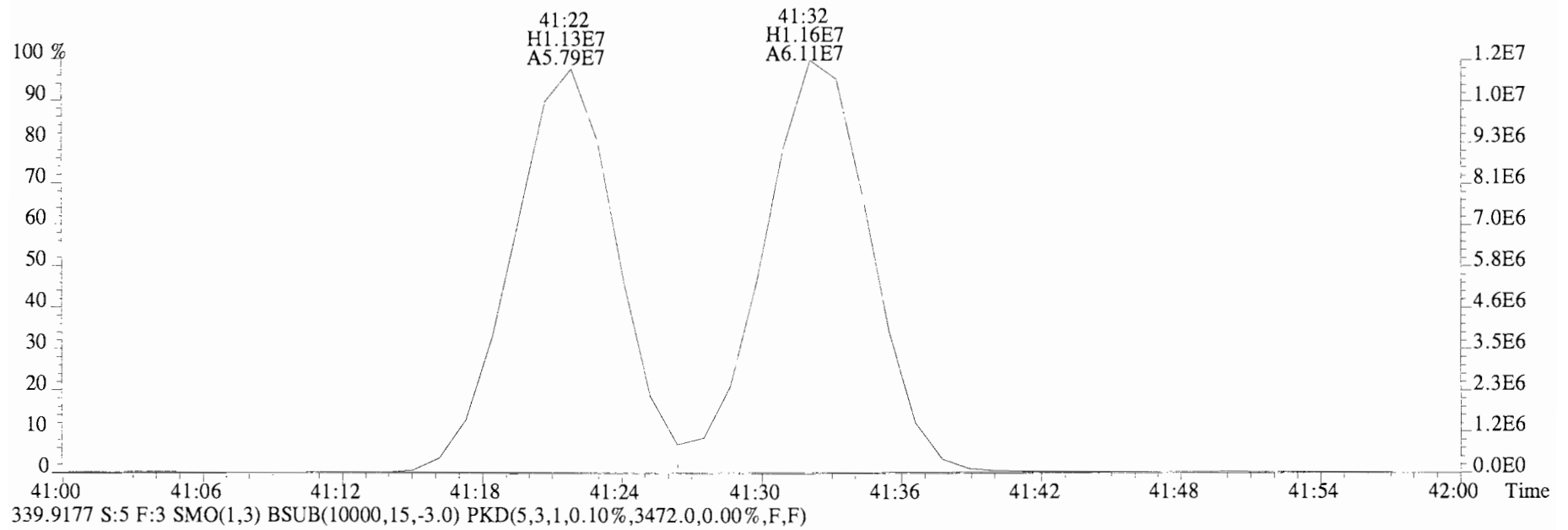
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3480.0,0.00%,F,F)



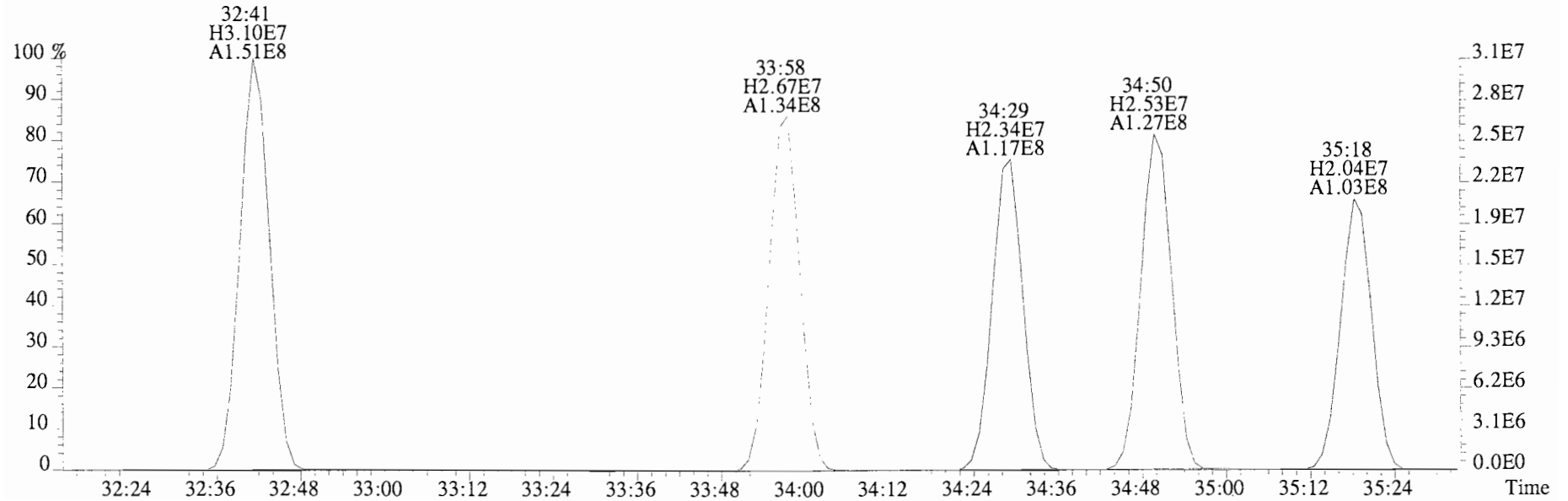
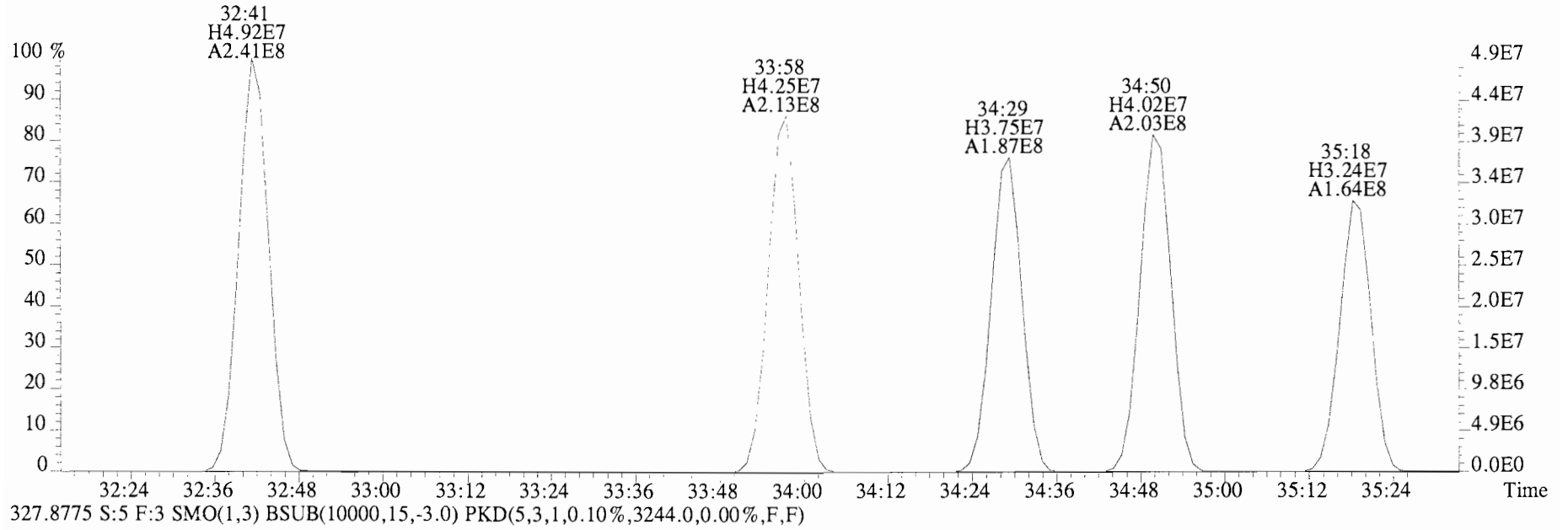
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3472.0,0.00%,F,F)



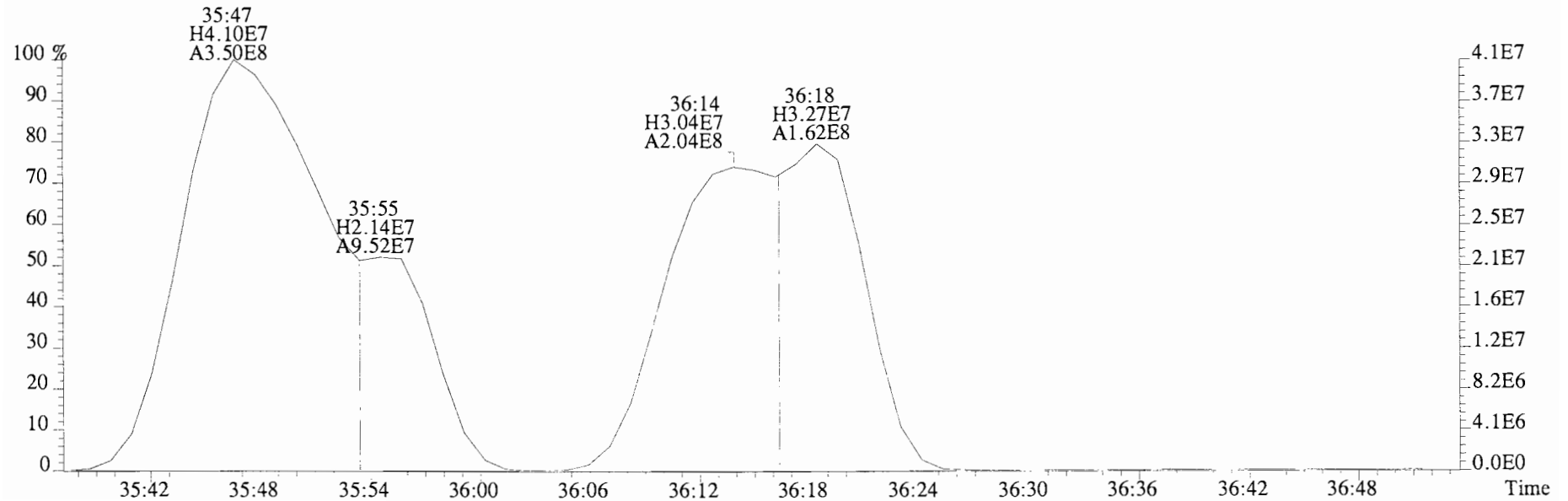
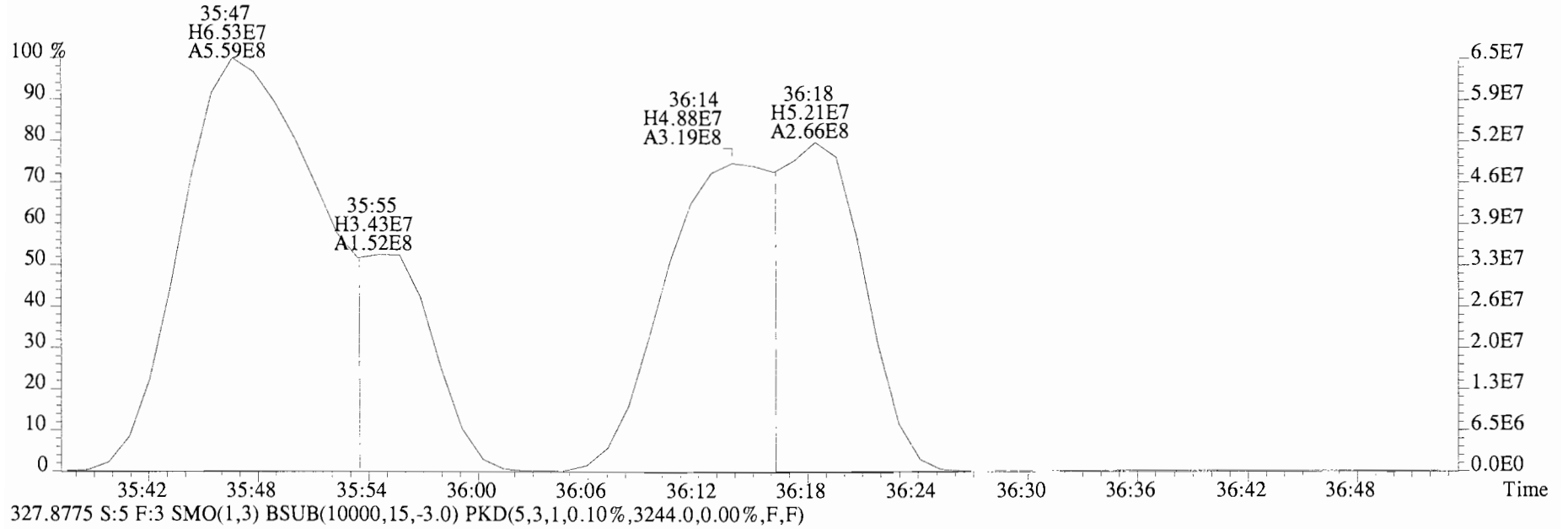
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3480.0,0.00%,F,F)



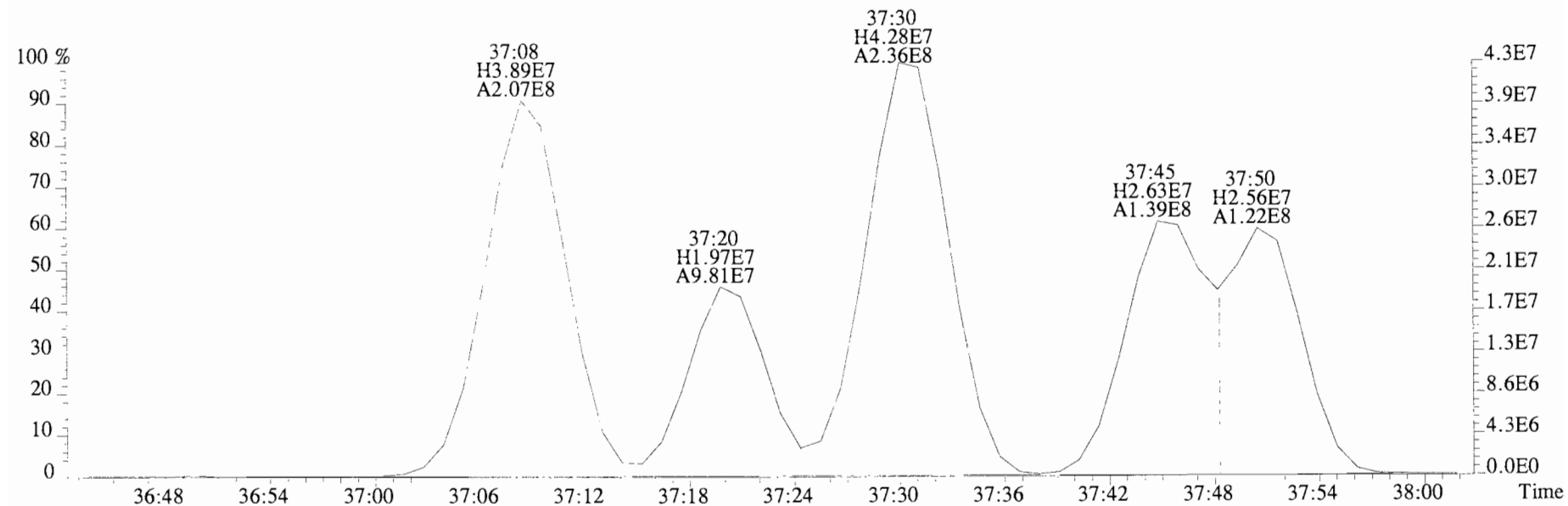
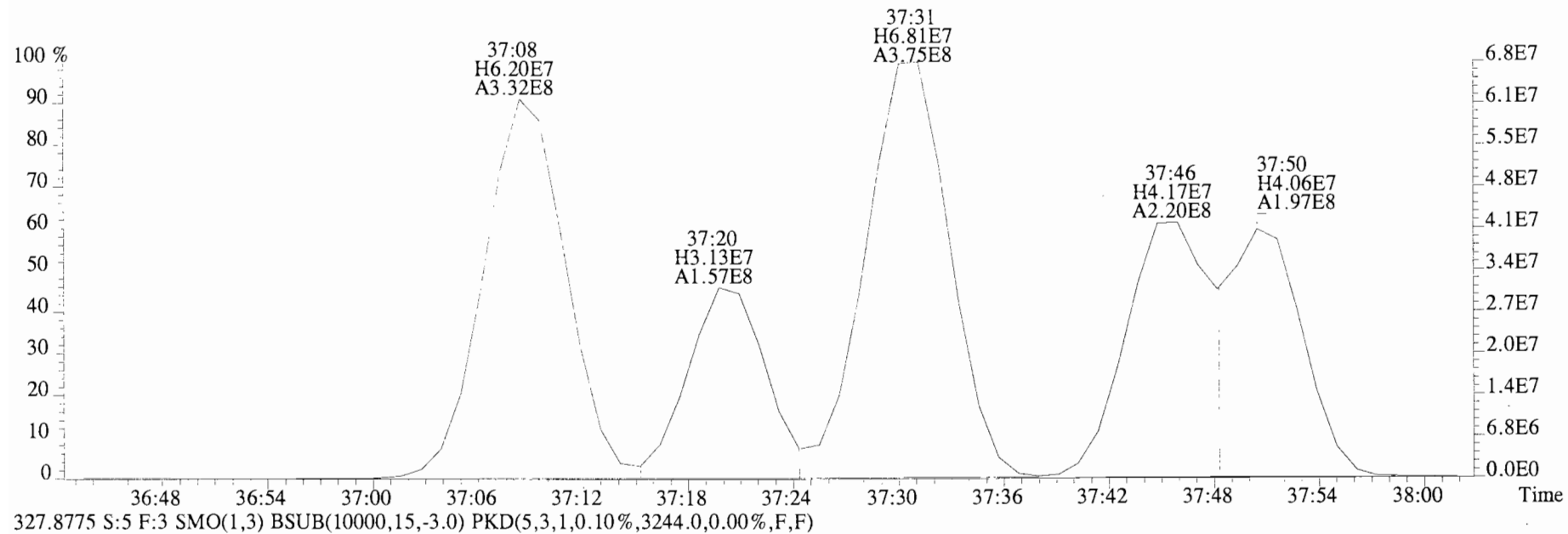
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



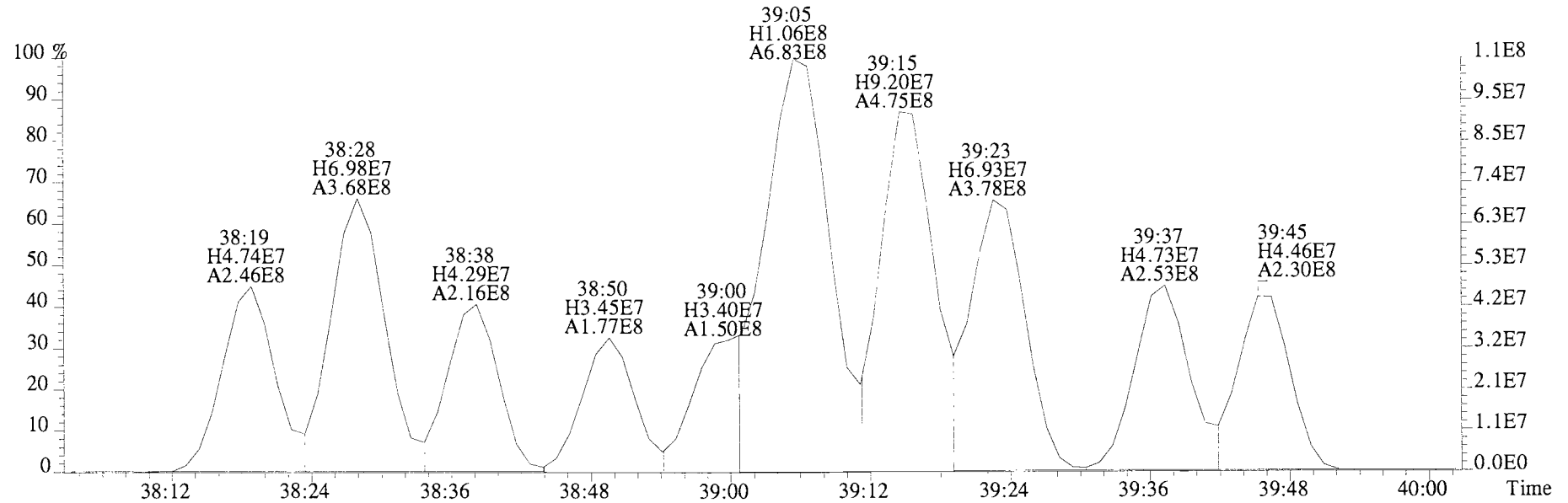
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



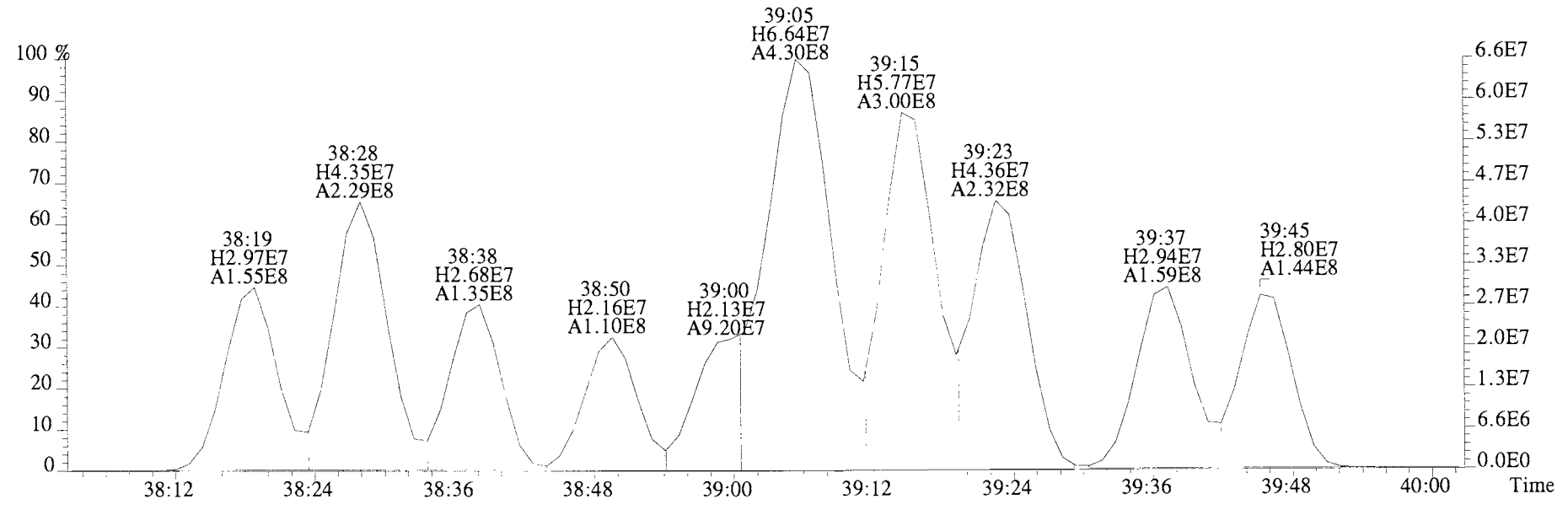
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



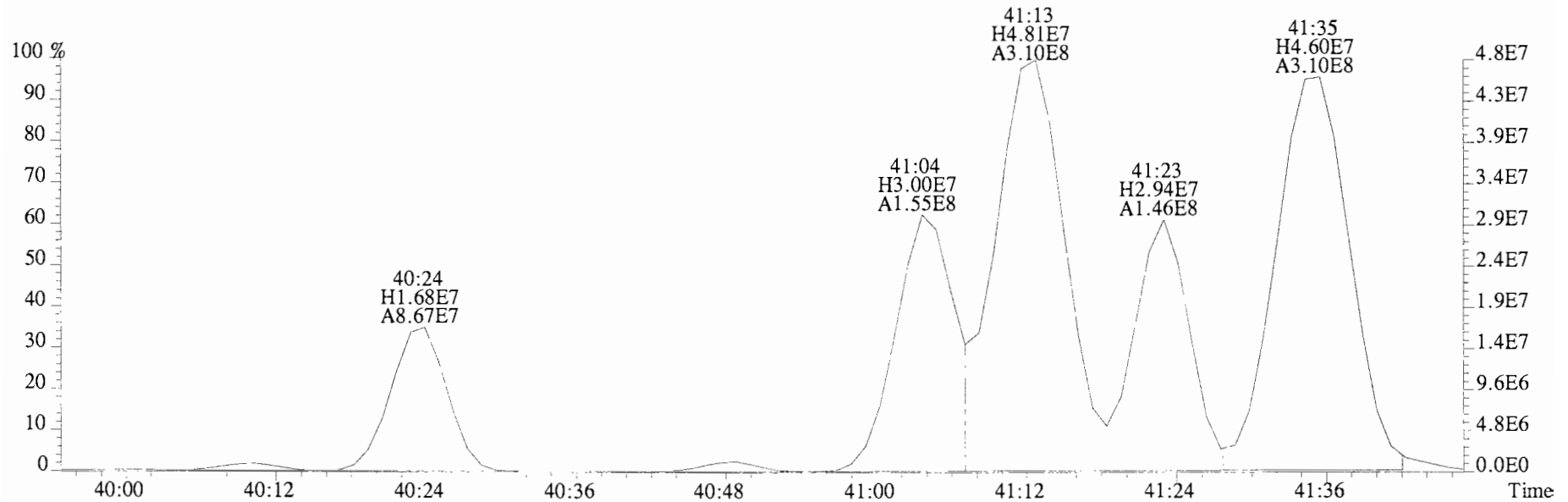
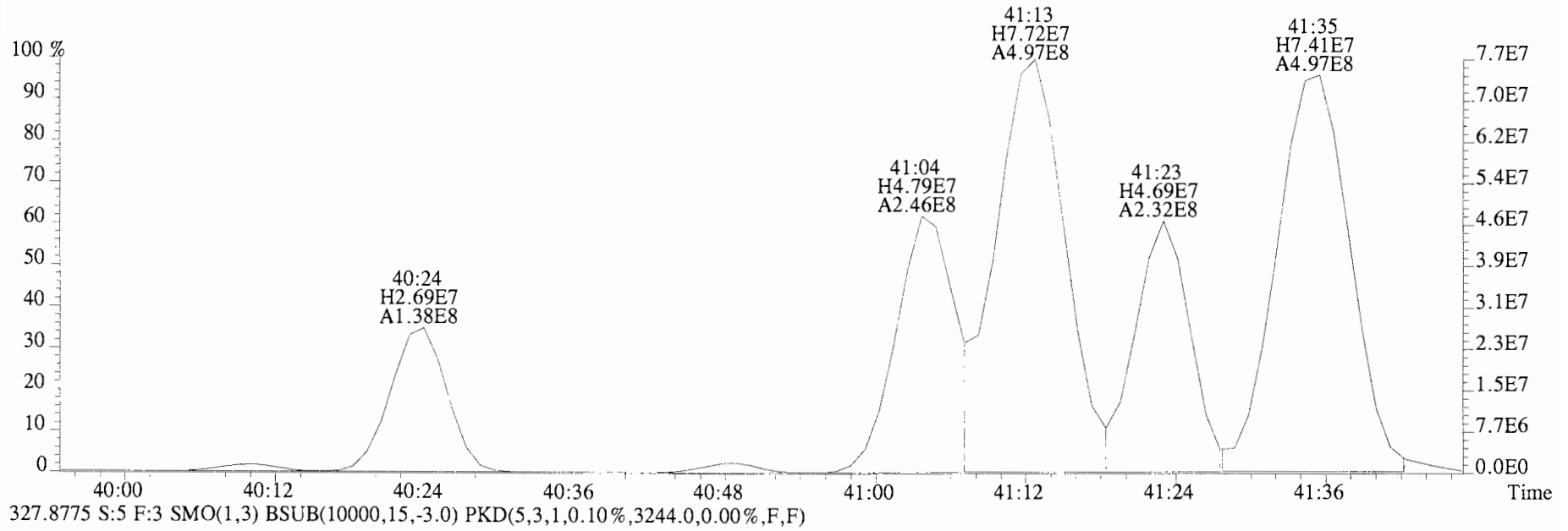
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



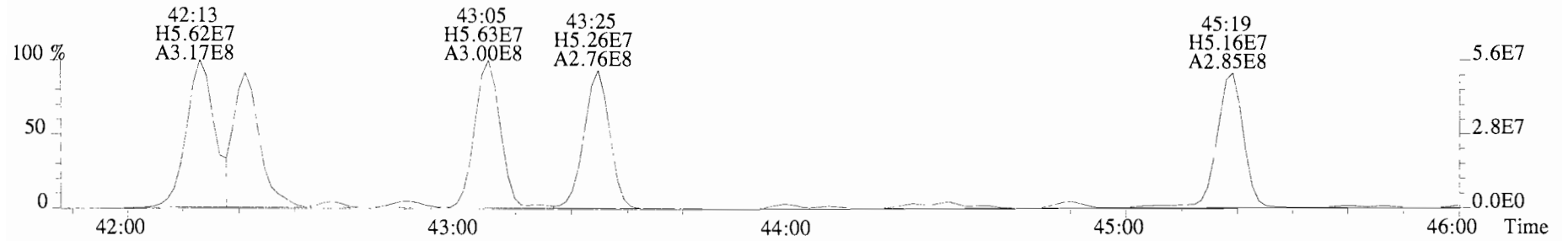
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3244.0,0.00%,F,F)



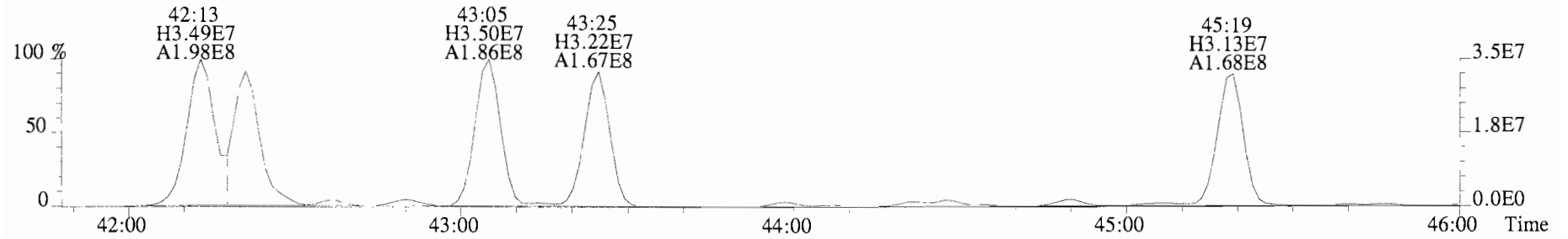
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2968.0,0.00%,F,F)



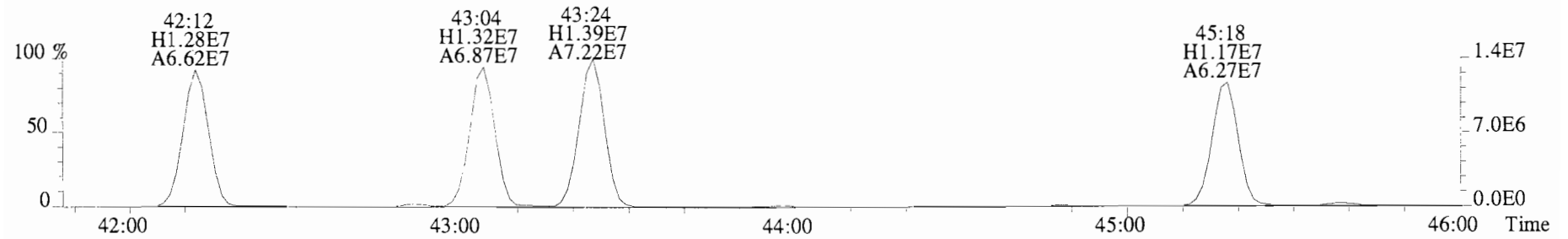
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,84044.0,0.00%,F,F)



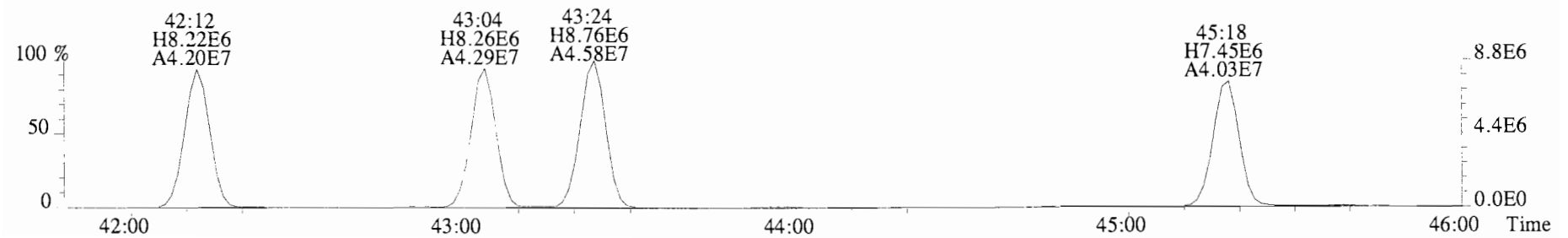
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,53668.0,0.00%,F,F)



337.9207 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10496.0,0.00%,F,F)

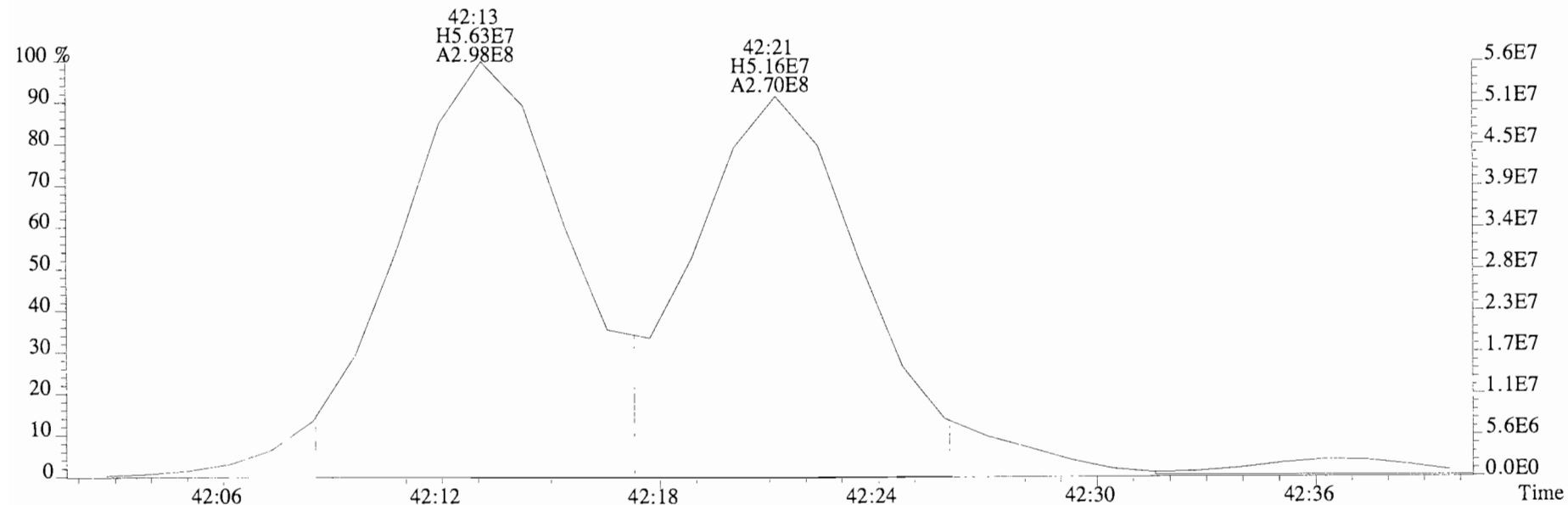


339.9177 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9156.0,0.00%,F,F)

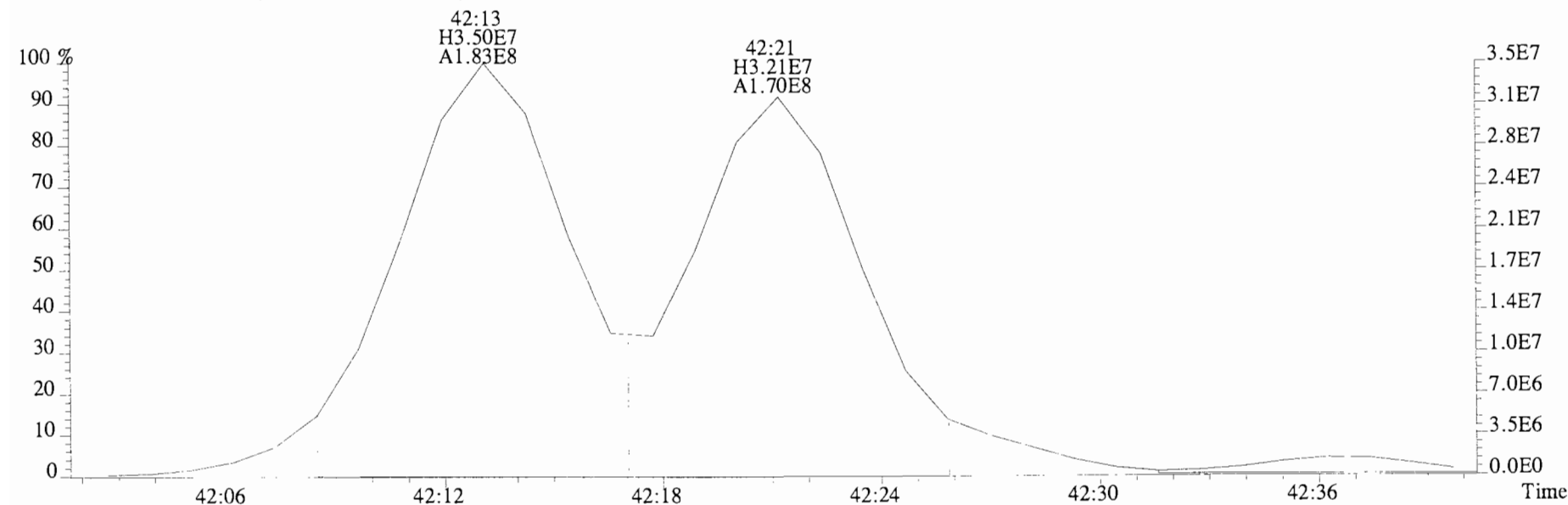




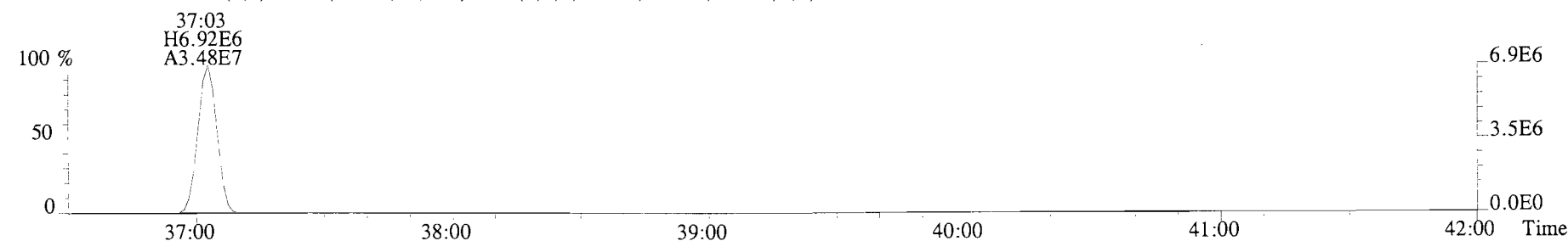
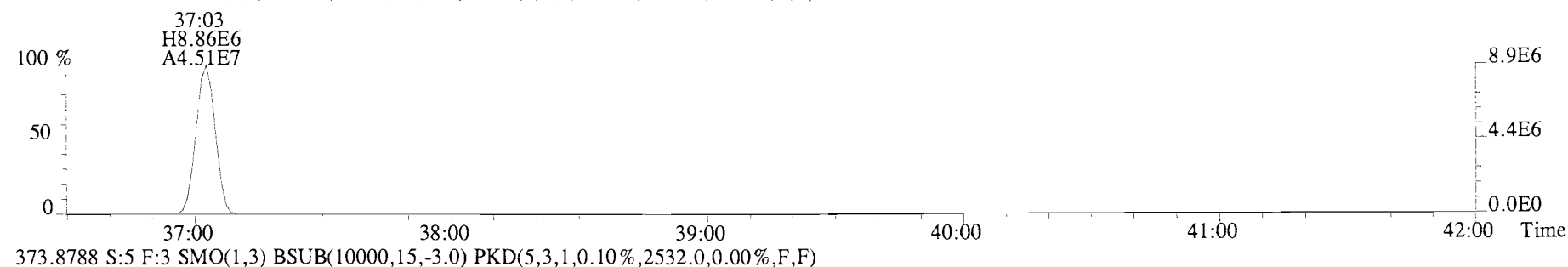
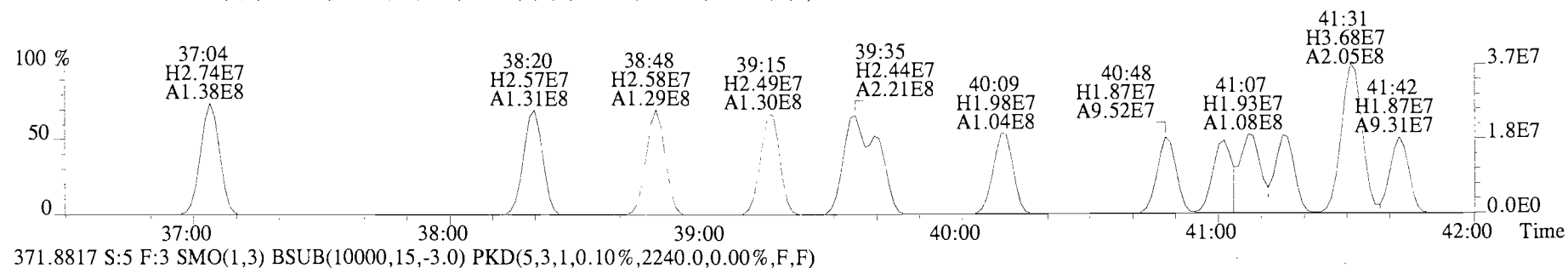
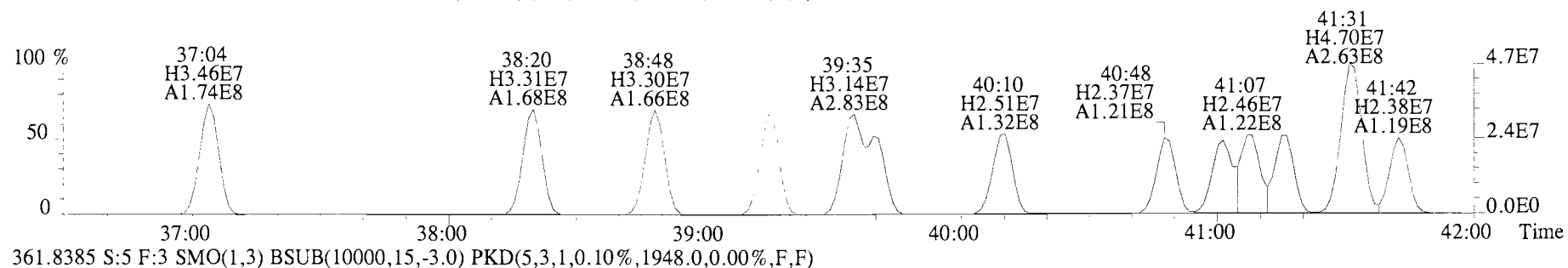
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,84044.0,0.00%,F,F)



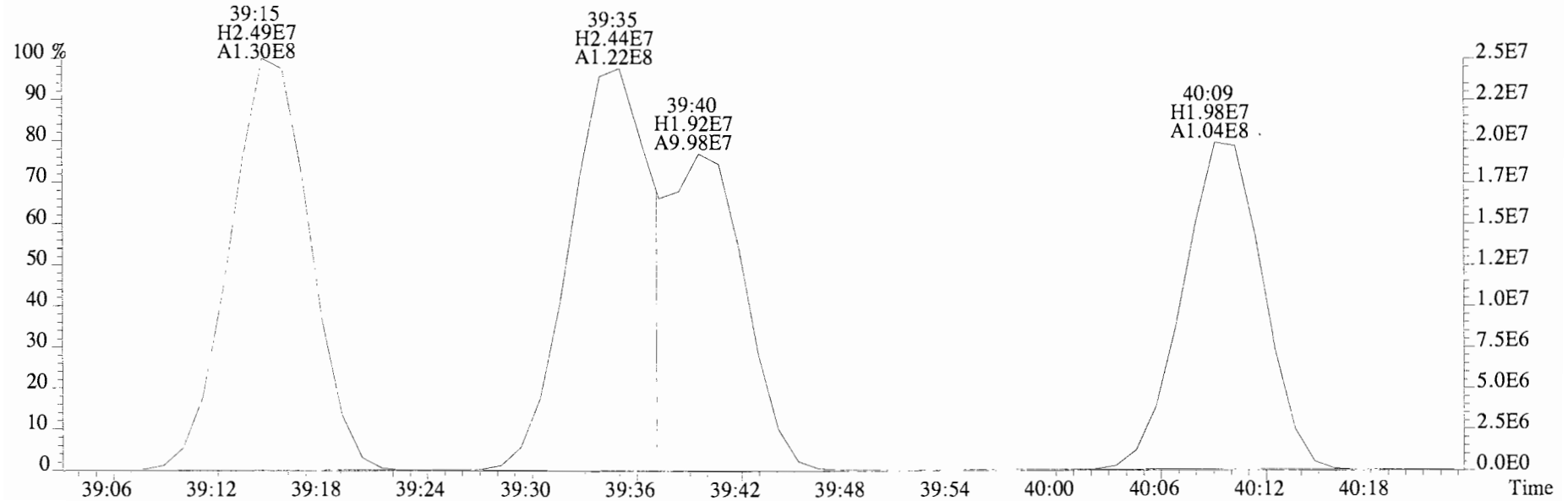
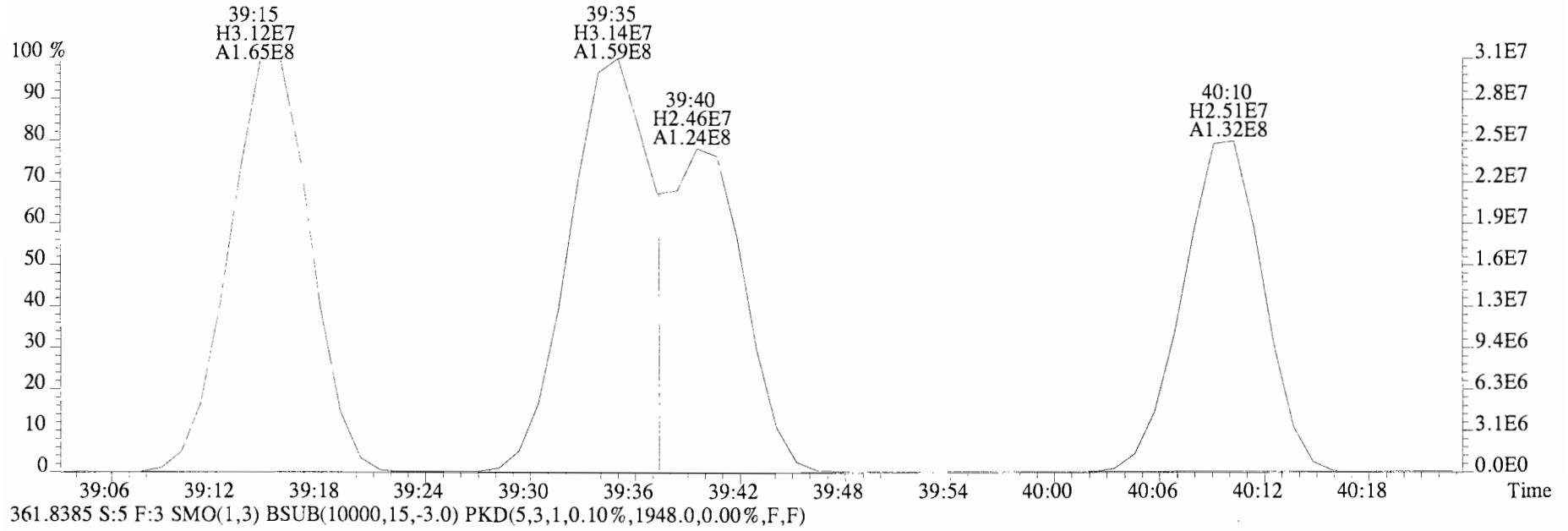
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,53668.0,0.00%,F,F)



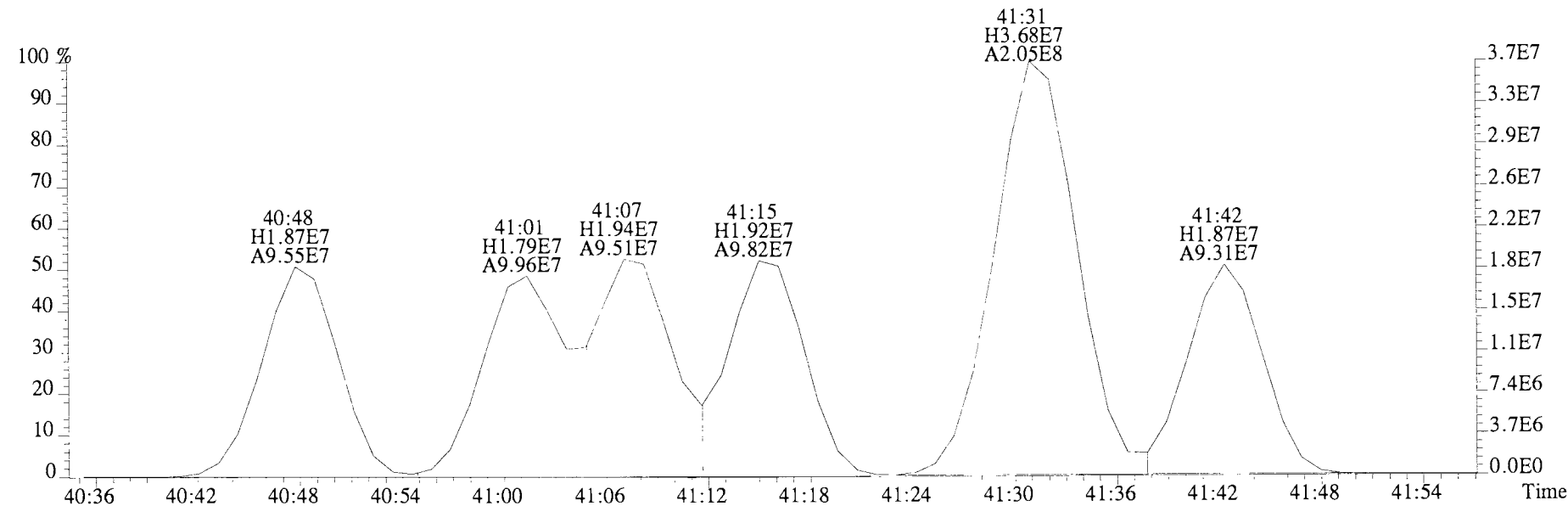
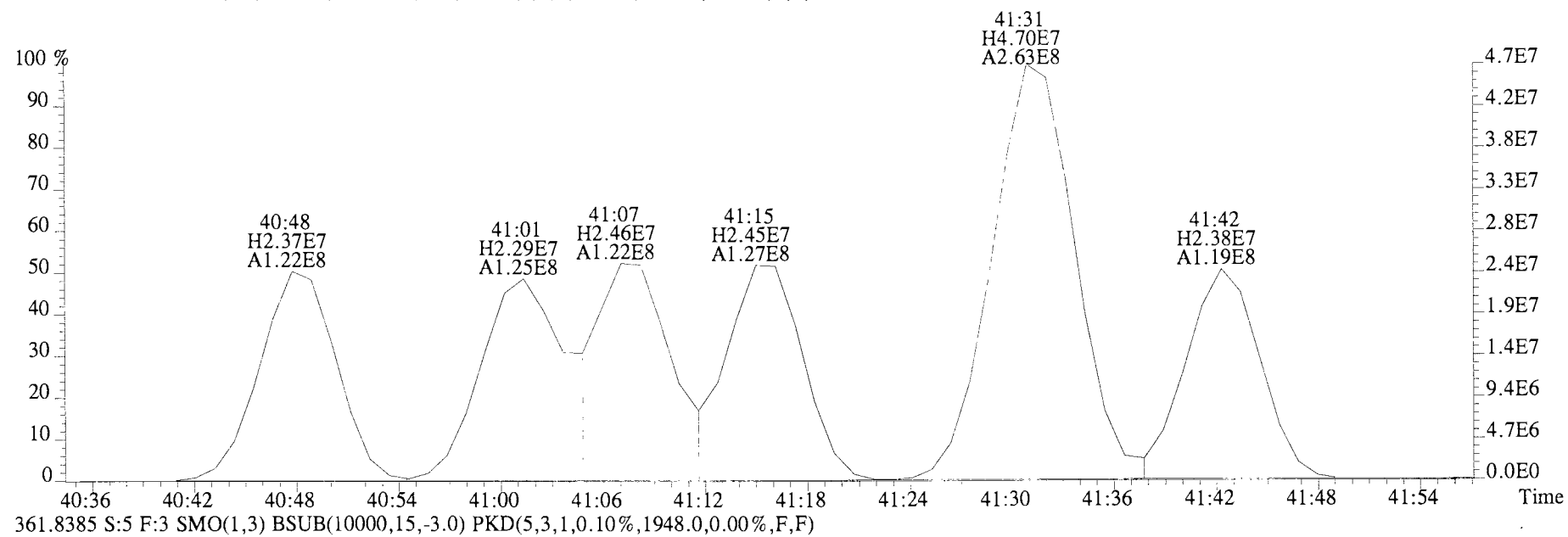
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2220.0,0.00%,F,F)



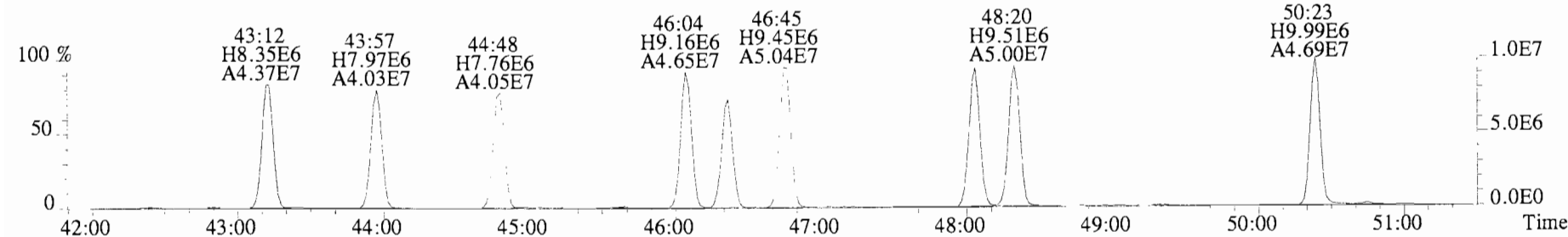
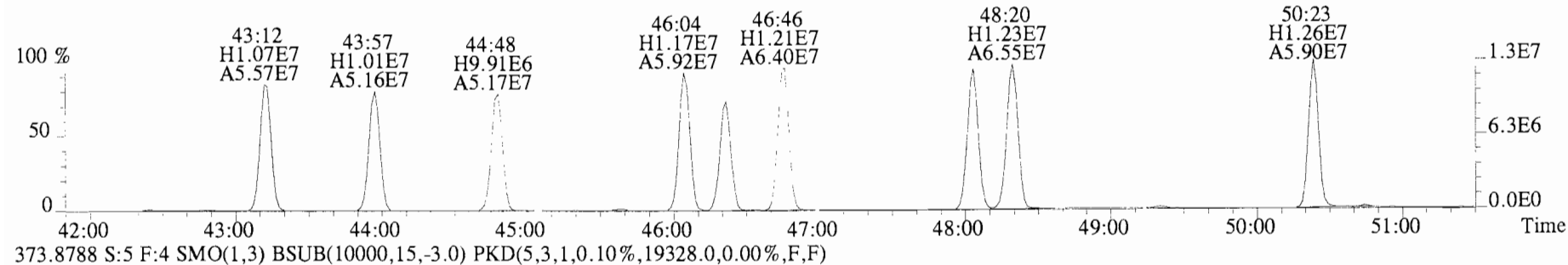
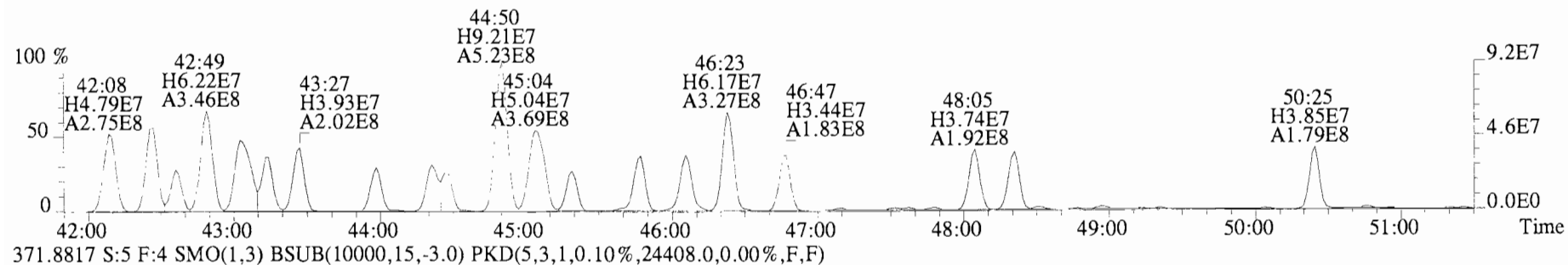
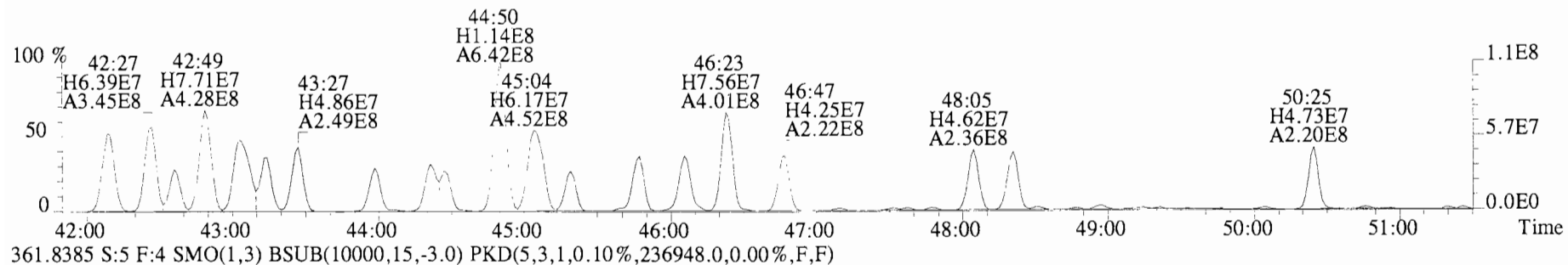
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2220.0,0.00%,F,F)



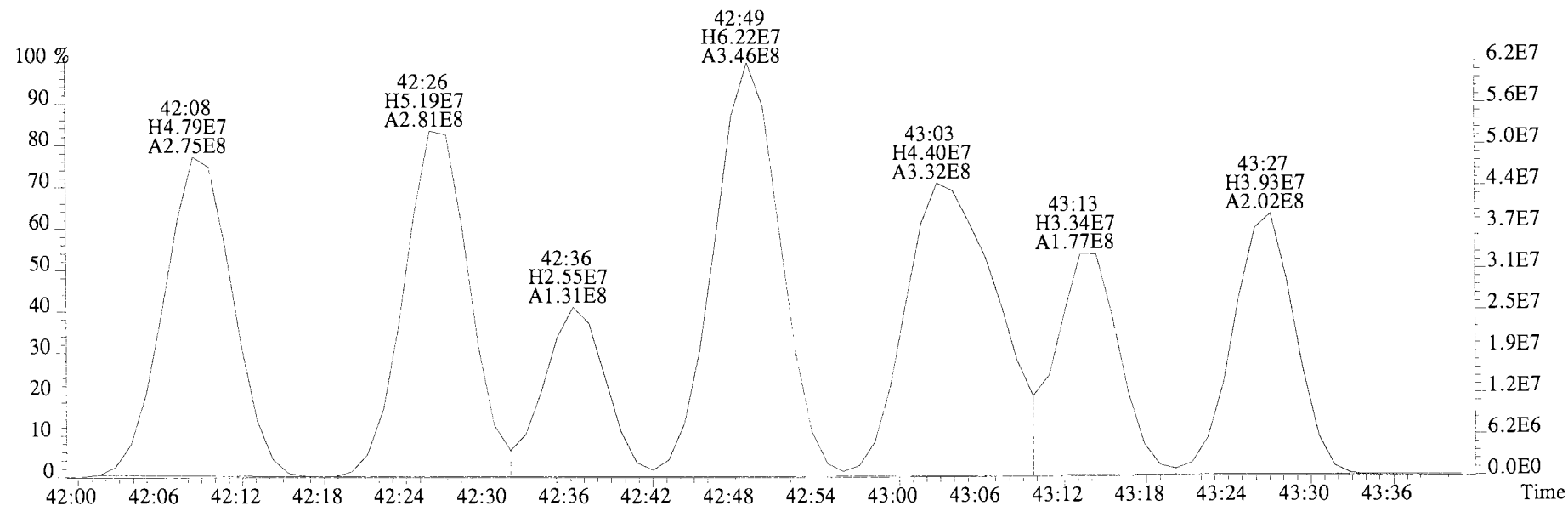
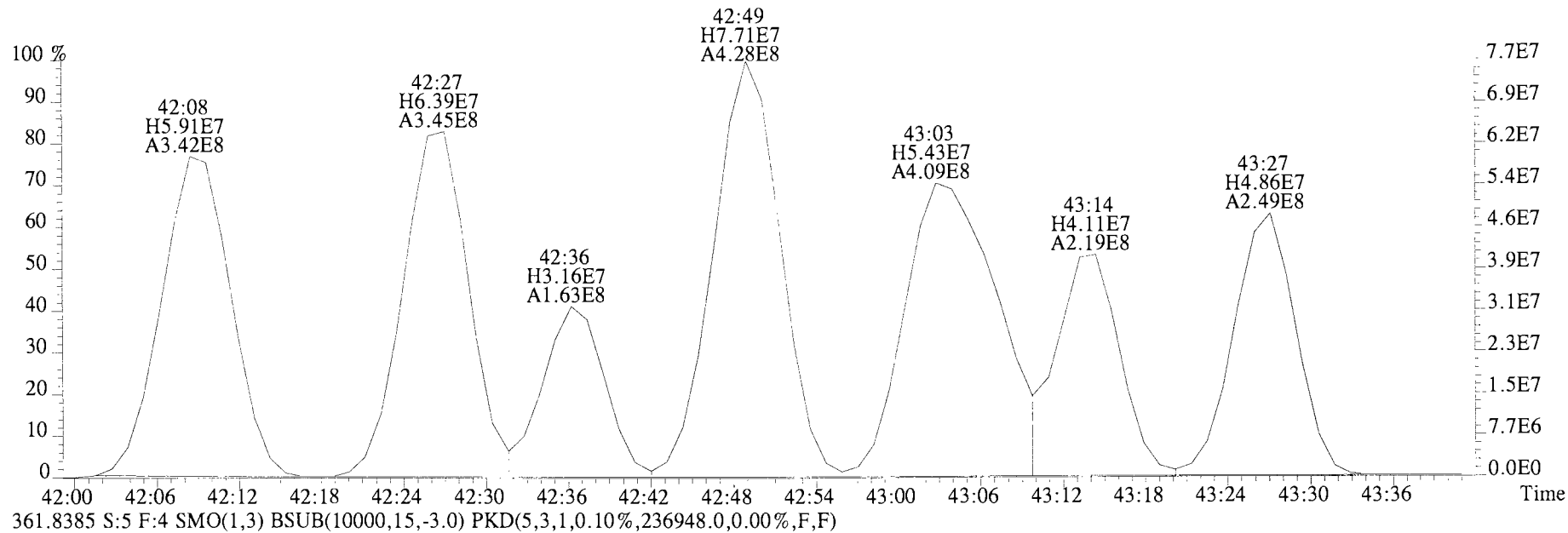
File:140620E1 #1-766 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,2220.0,0.00%,F,F)



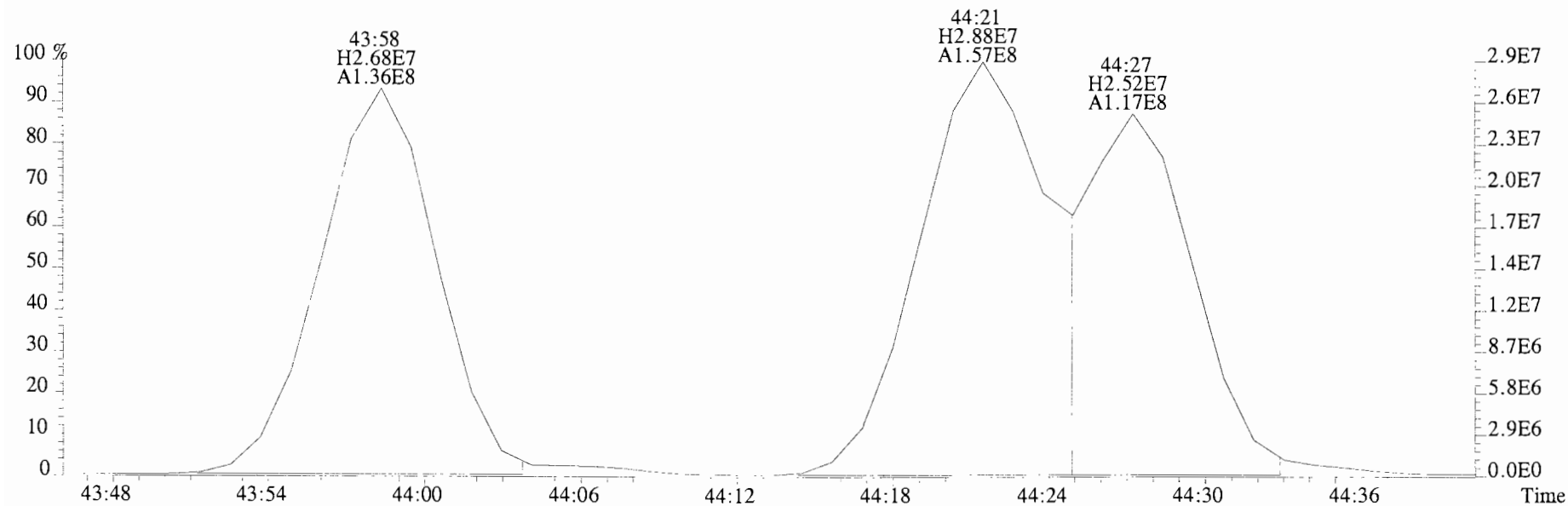
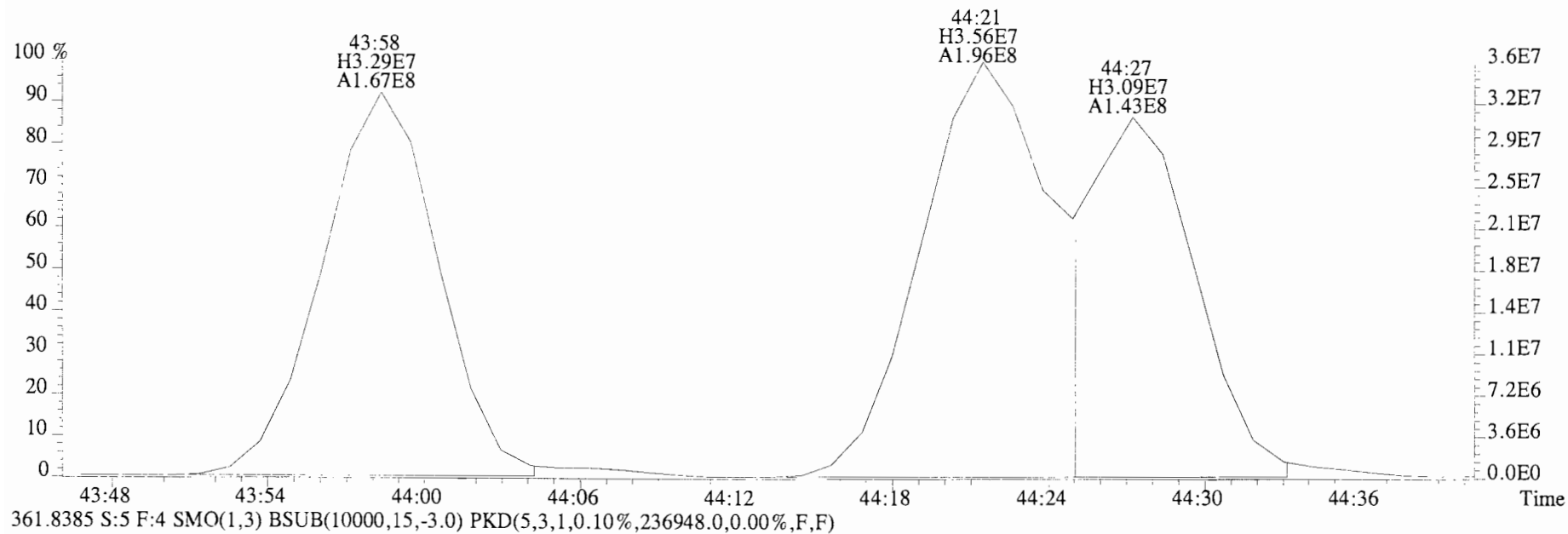
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,298112.0,0.00%,F,F)



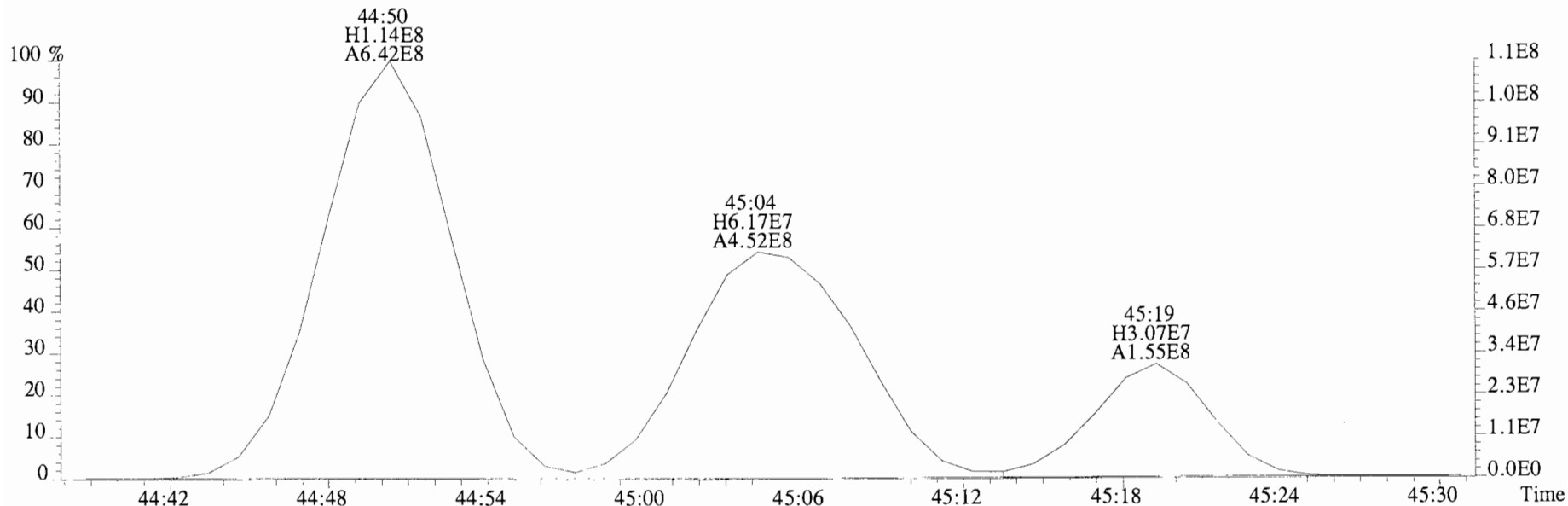
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,298112.0,0.00%,F,F)



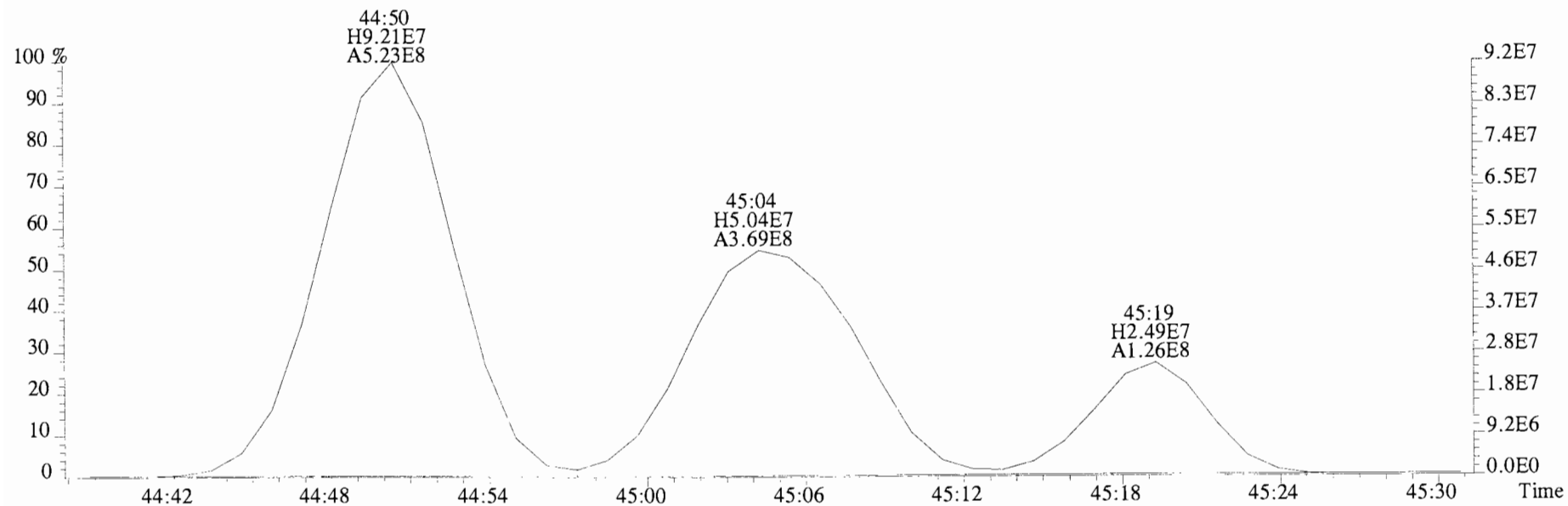
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,298112.0,0.00%,F,F)



File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,298112.0,0.00%,F,F)

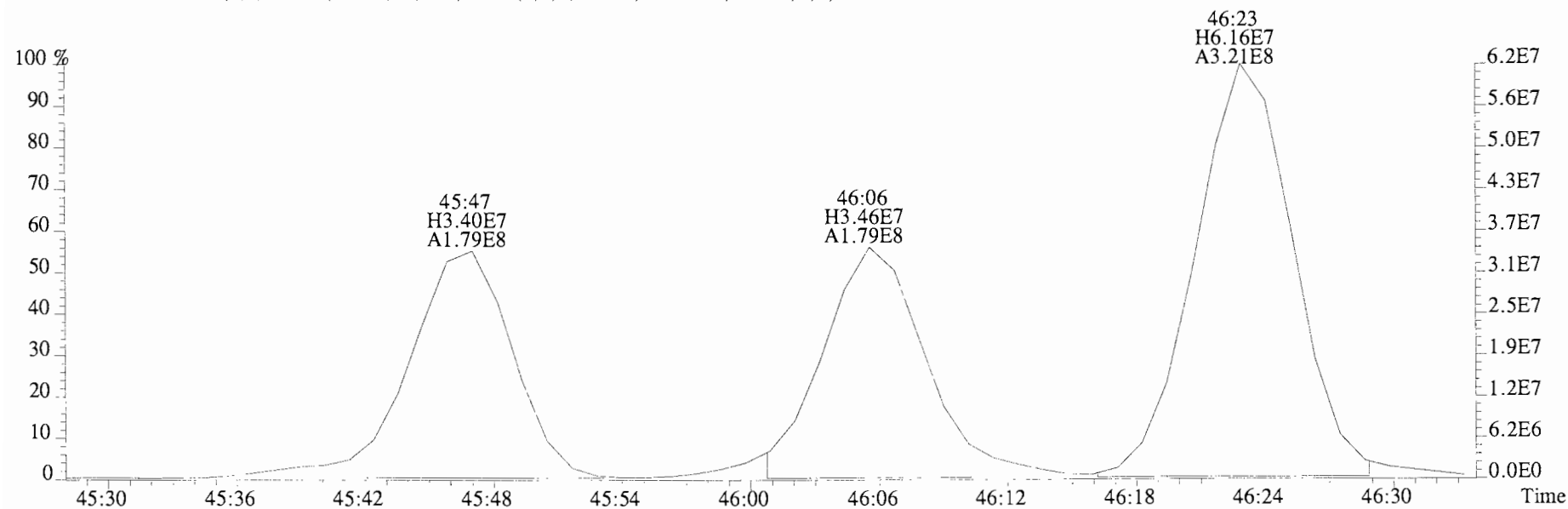
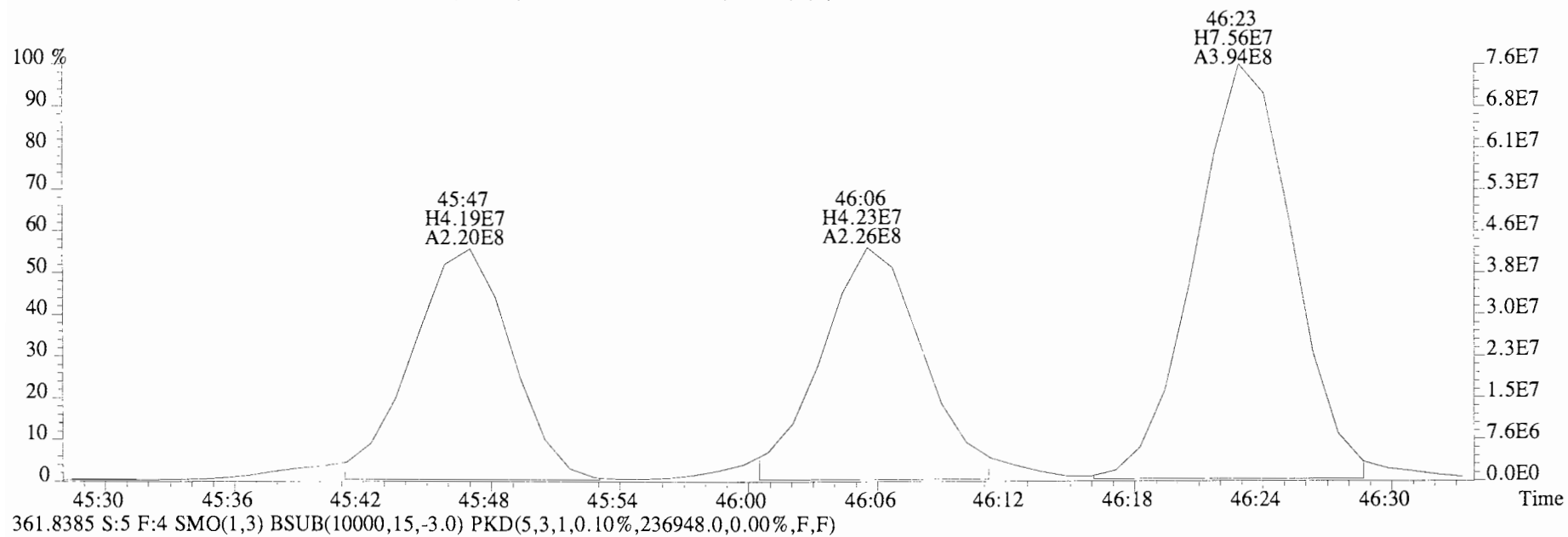


361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,236948.0,0.00%,F,F)

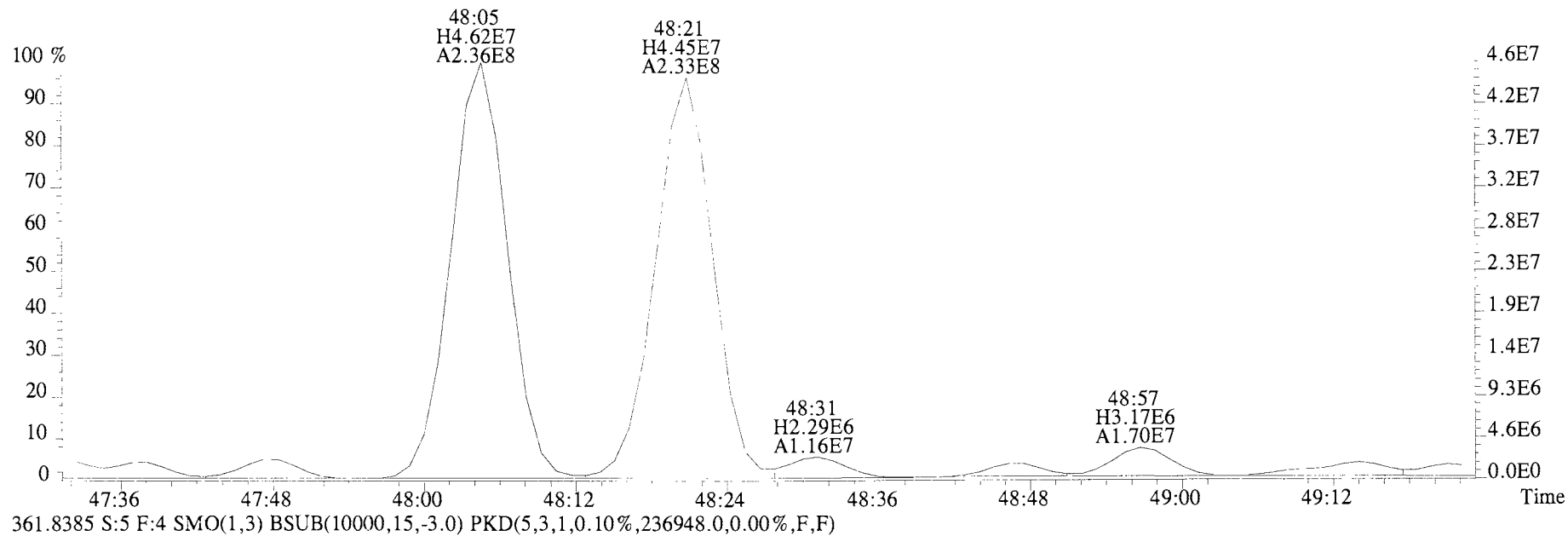




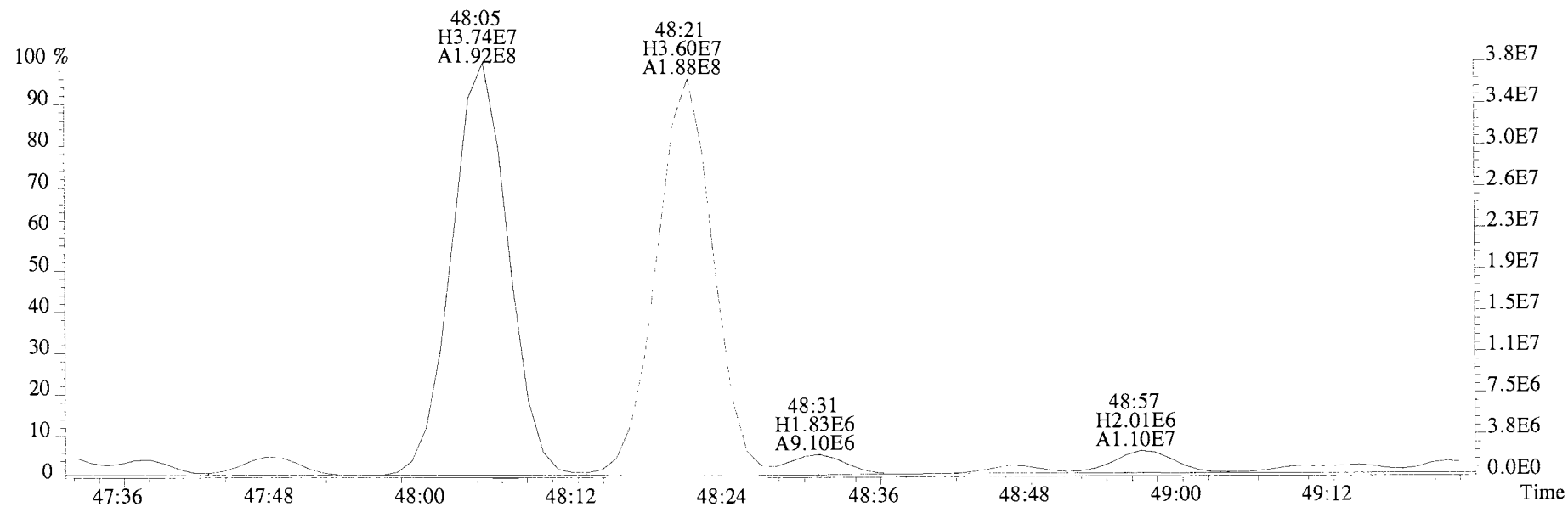
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,298112.0,0.00%,F,F)



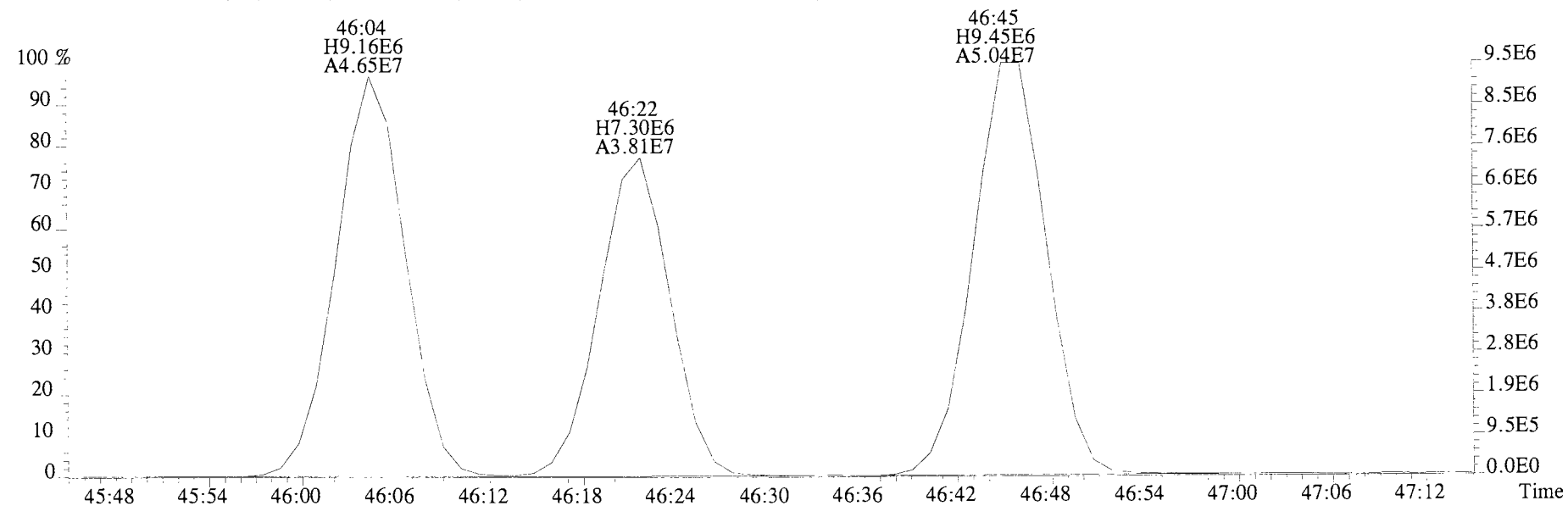
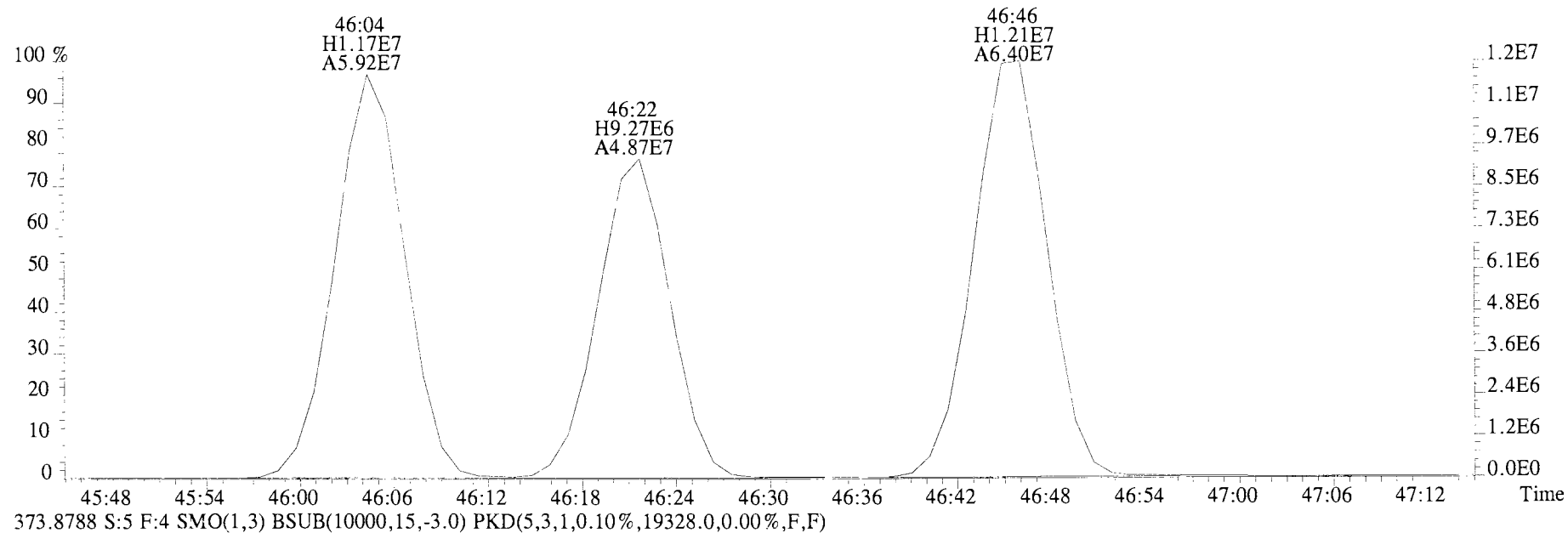
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,298112.0,0.00%,F,F)



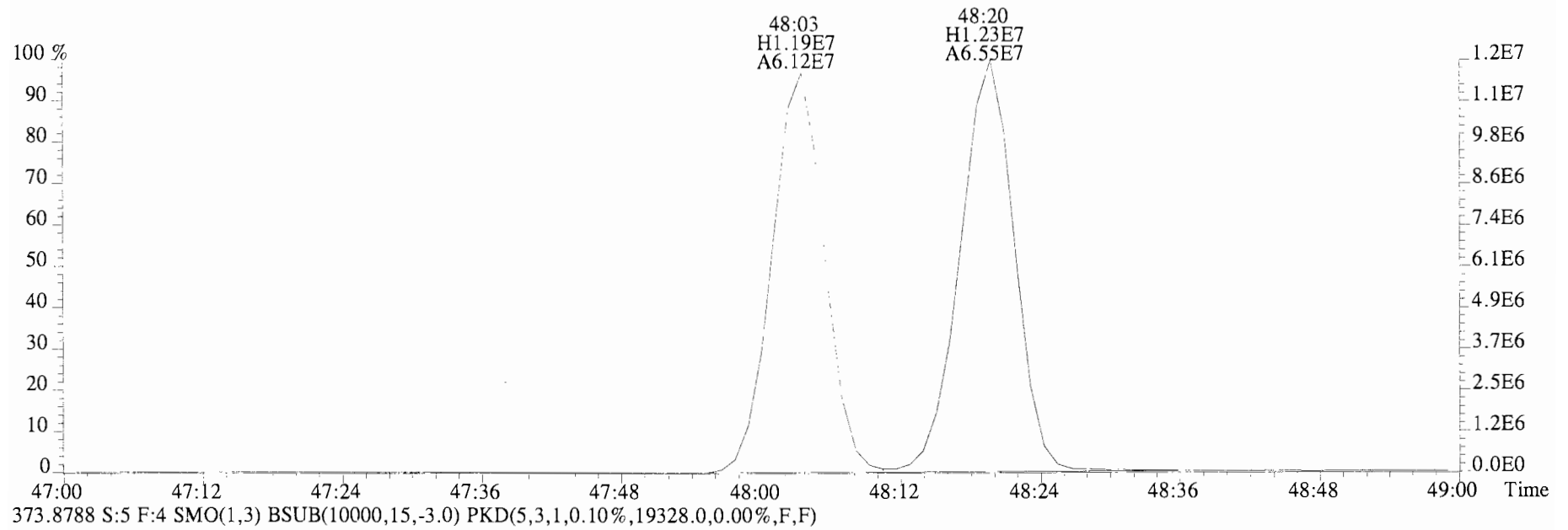
361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,236948.0,0.00%,F,F)



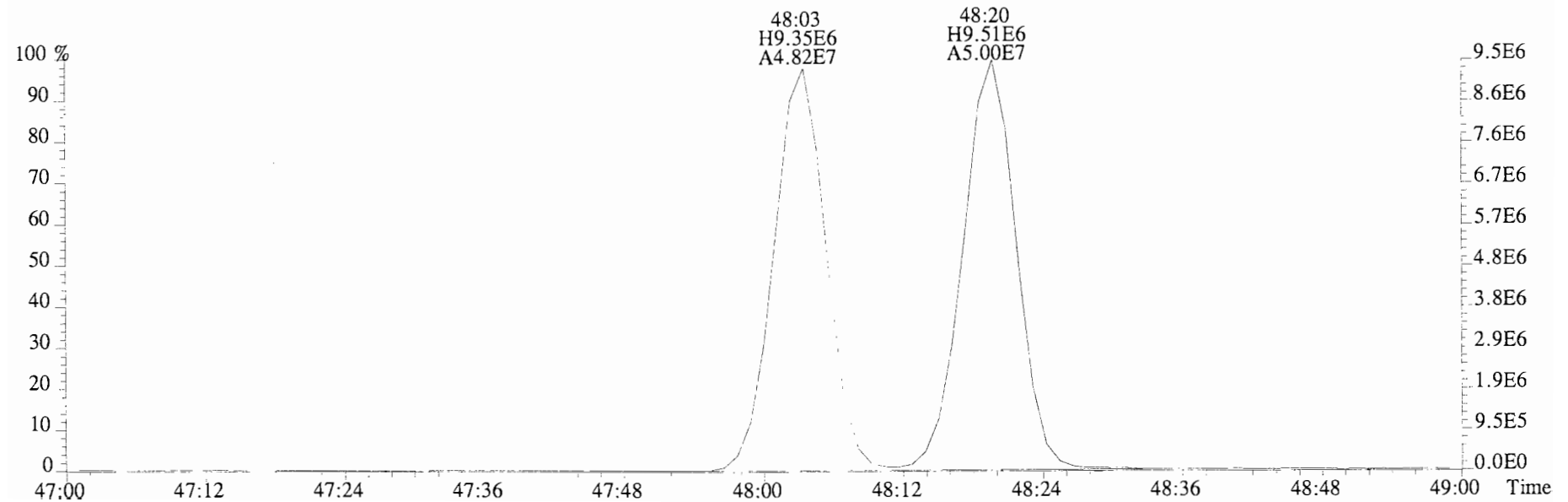
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,24408.0,0.00%,F,F)



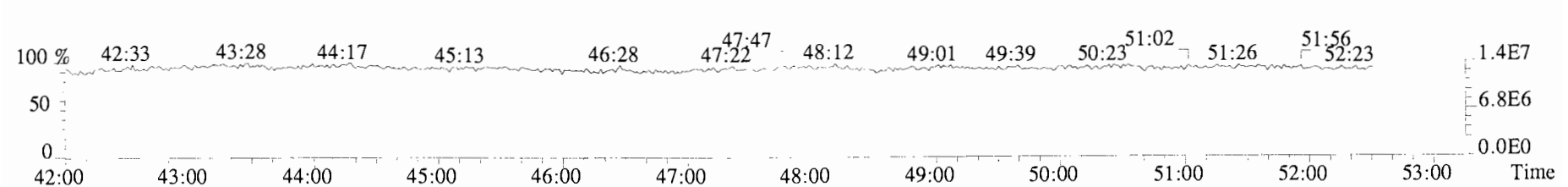
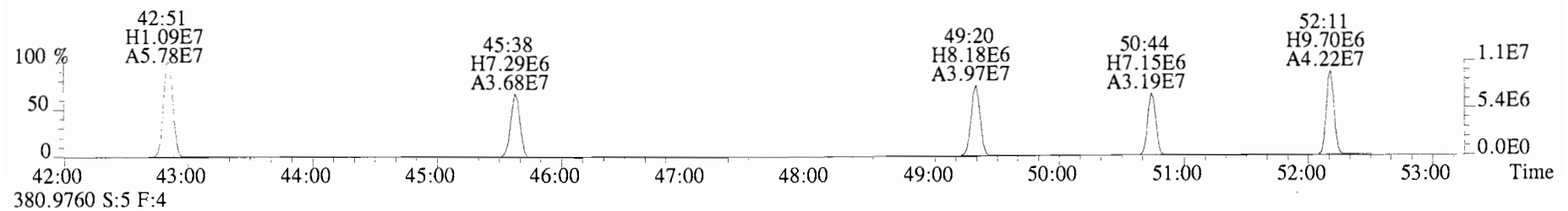
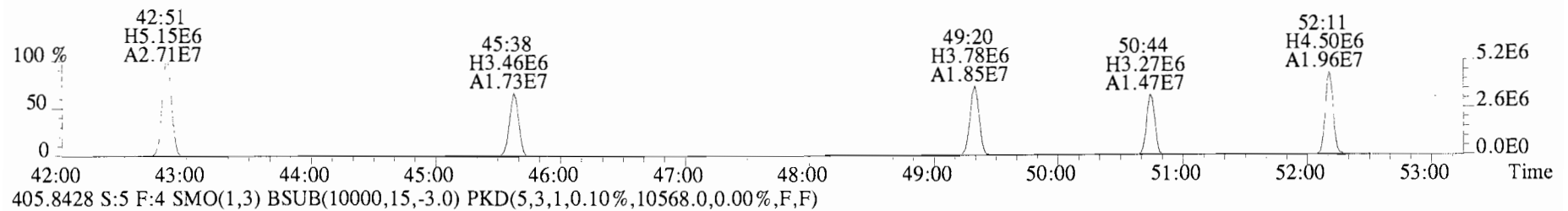
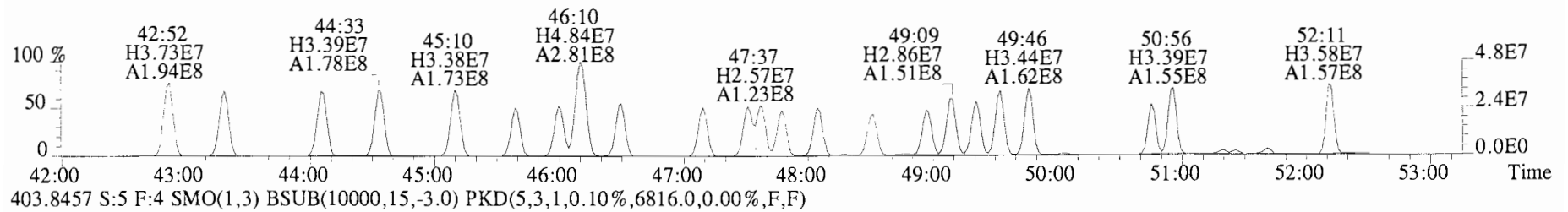
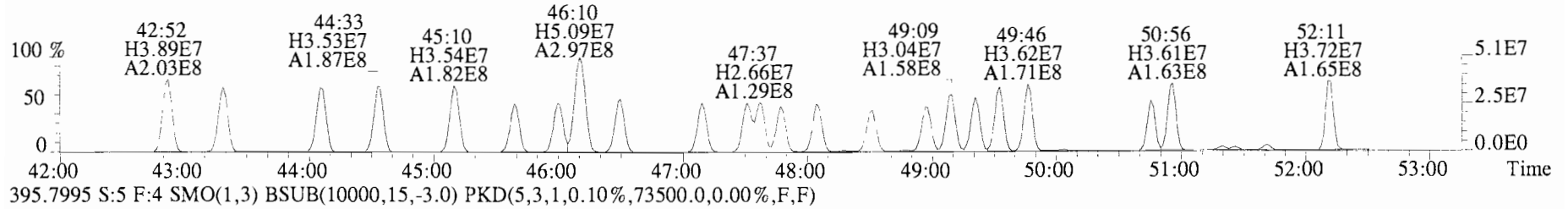
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,24408.0,0.00%,F,F)



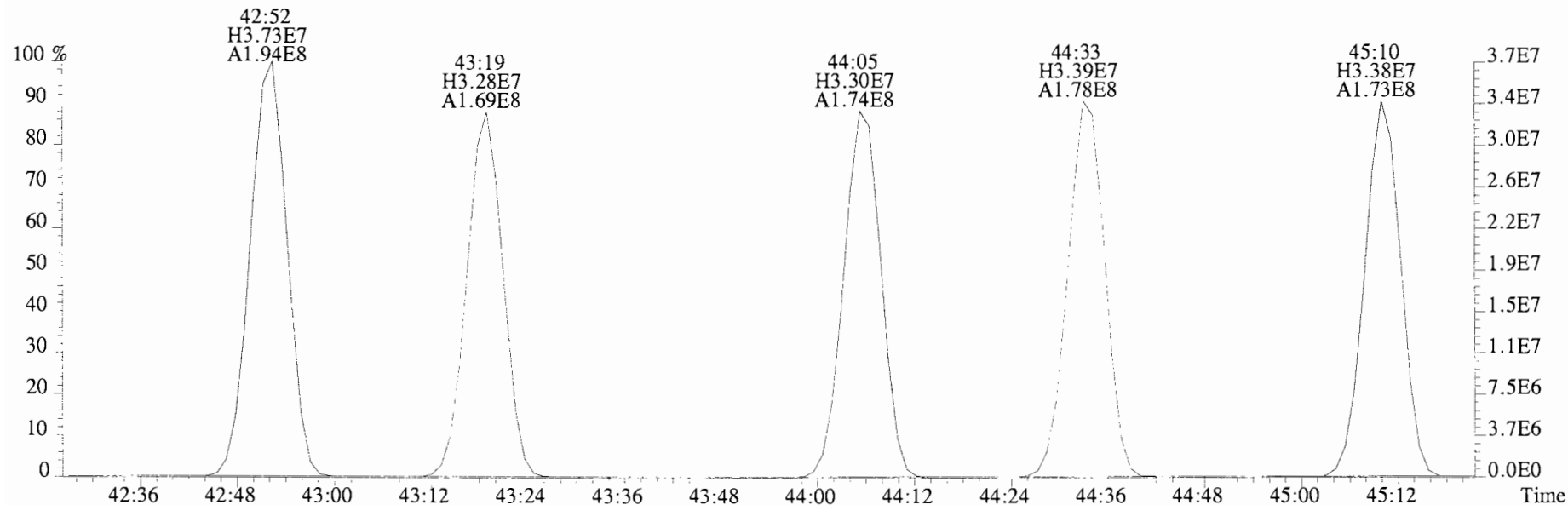
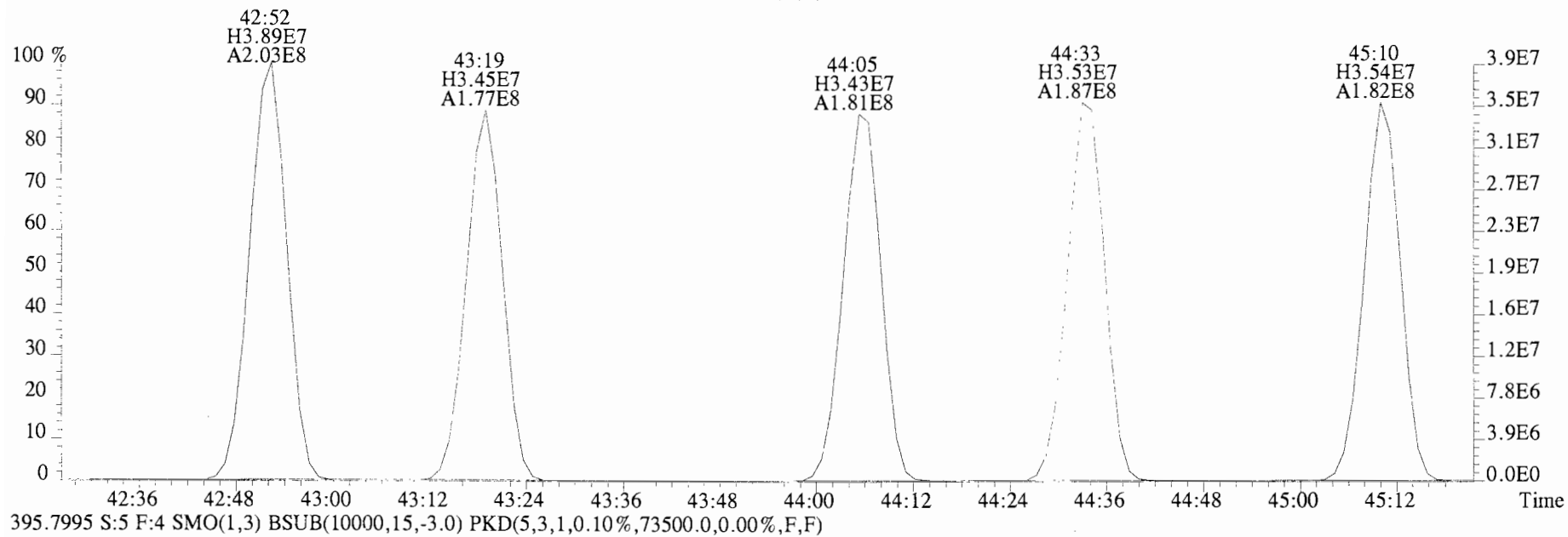
373.8788 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,19328.0,0.00%,F,F)



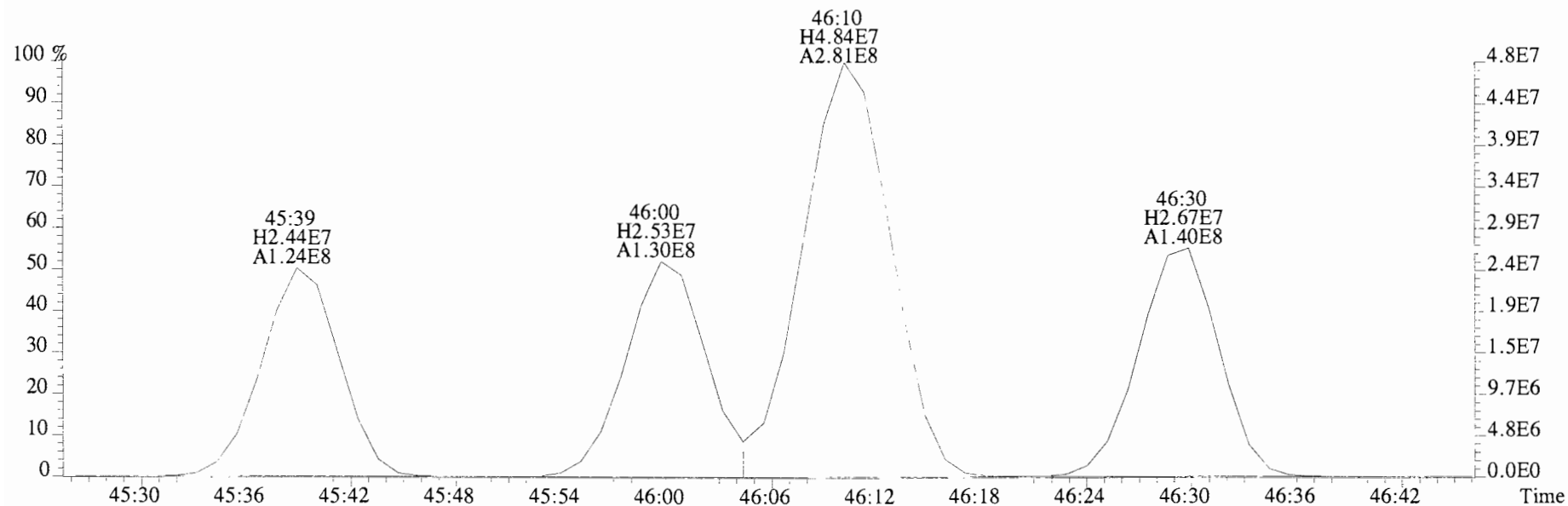
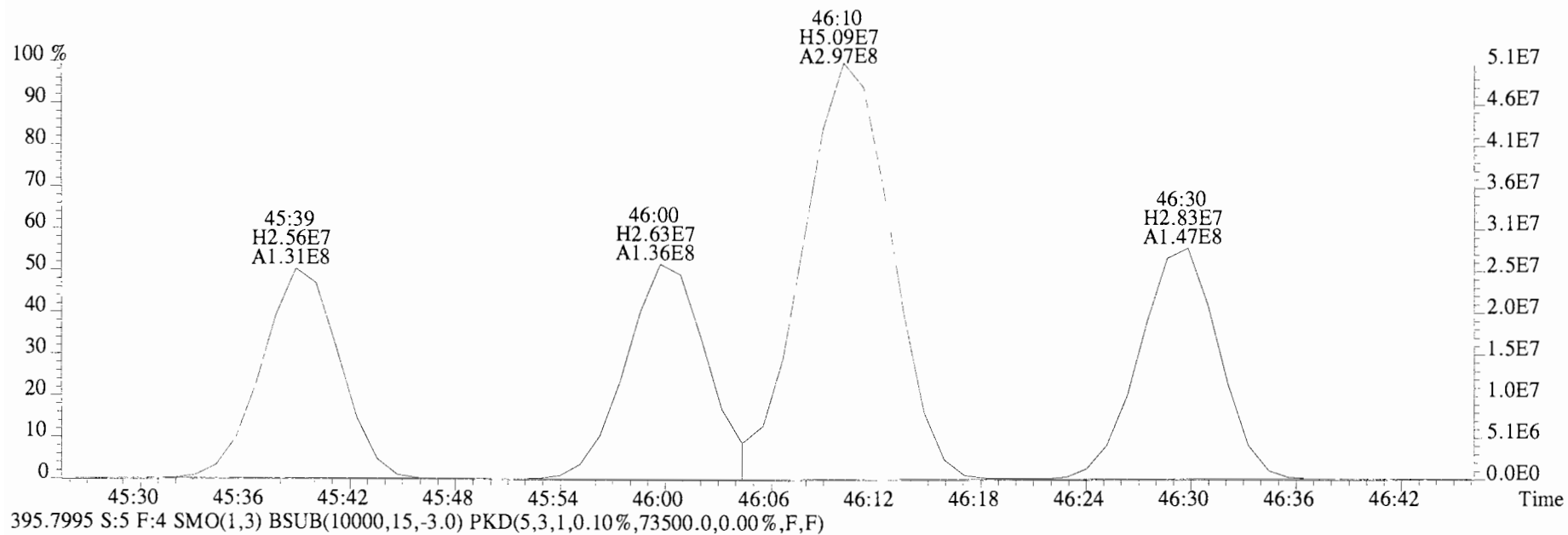
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,82212.0,0.00%,F,F)



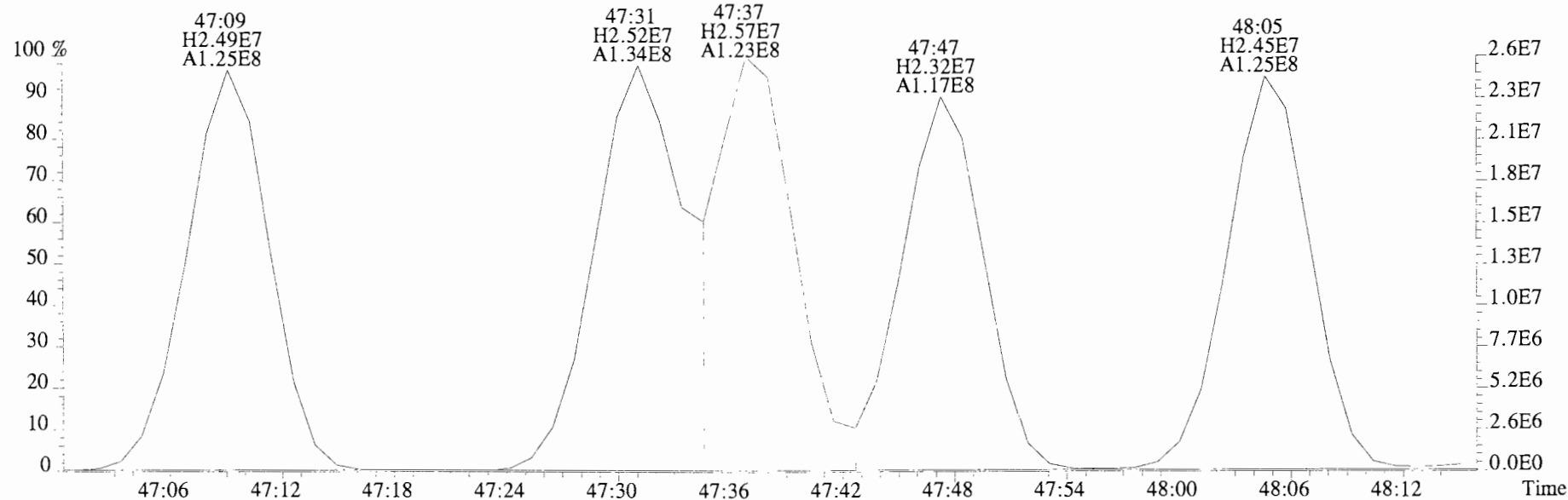
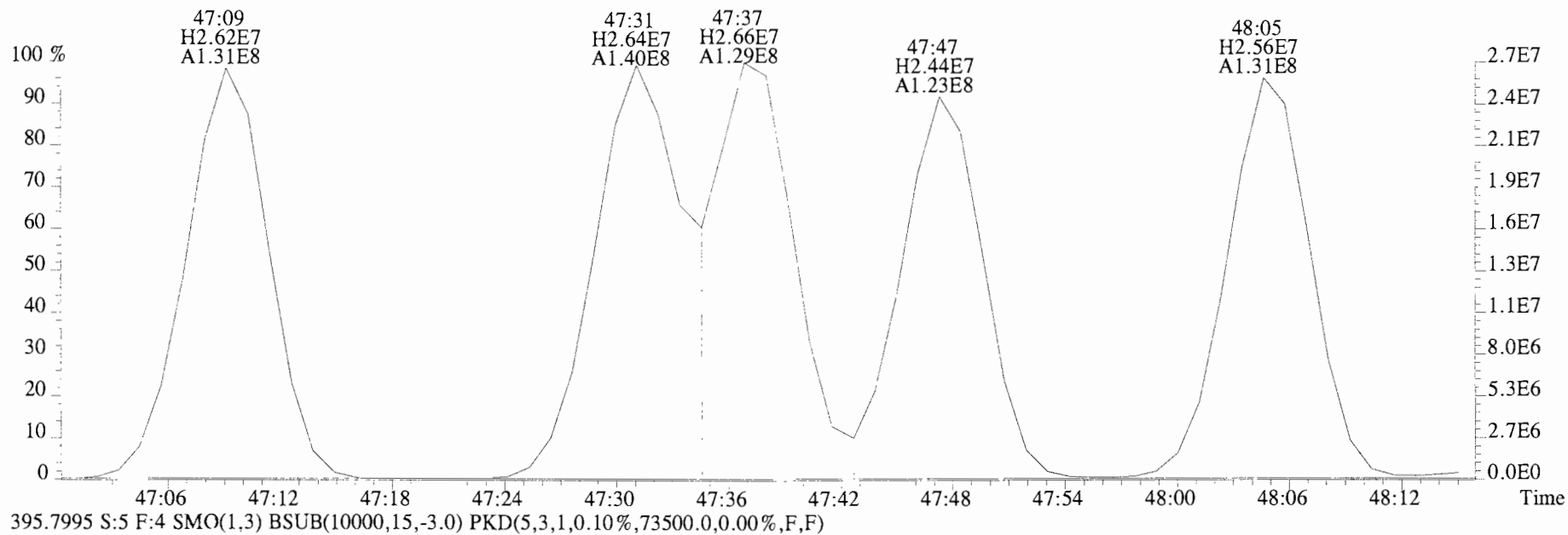
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,82212.0,0.00%,F,F)



File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,82212.0,0.00%,F,F)

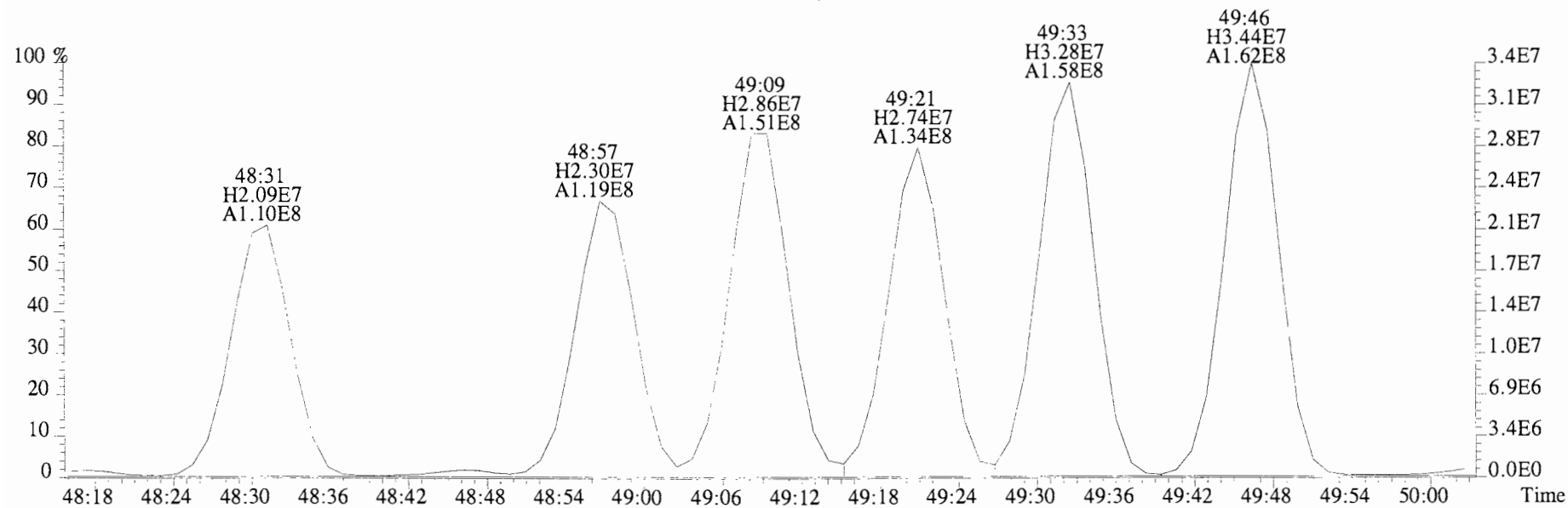
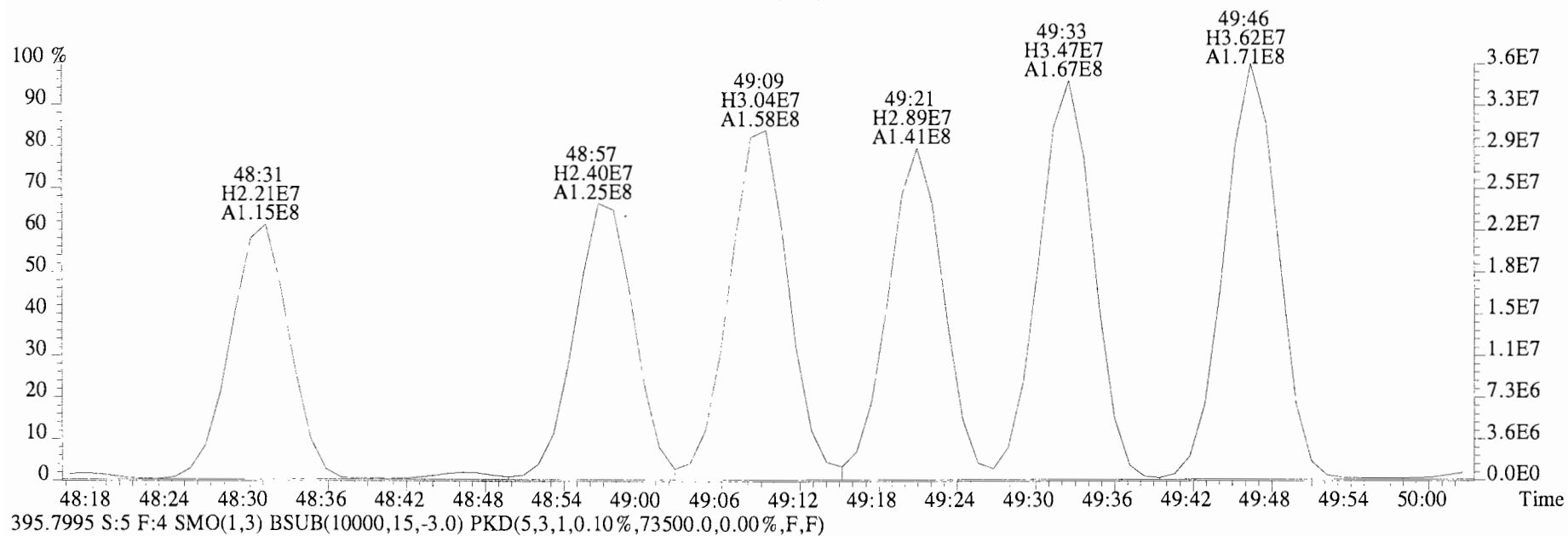


File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,82212.0,0.00%,F,F)

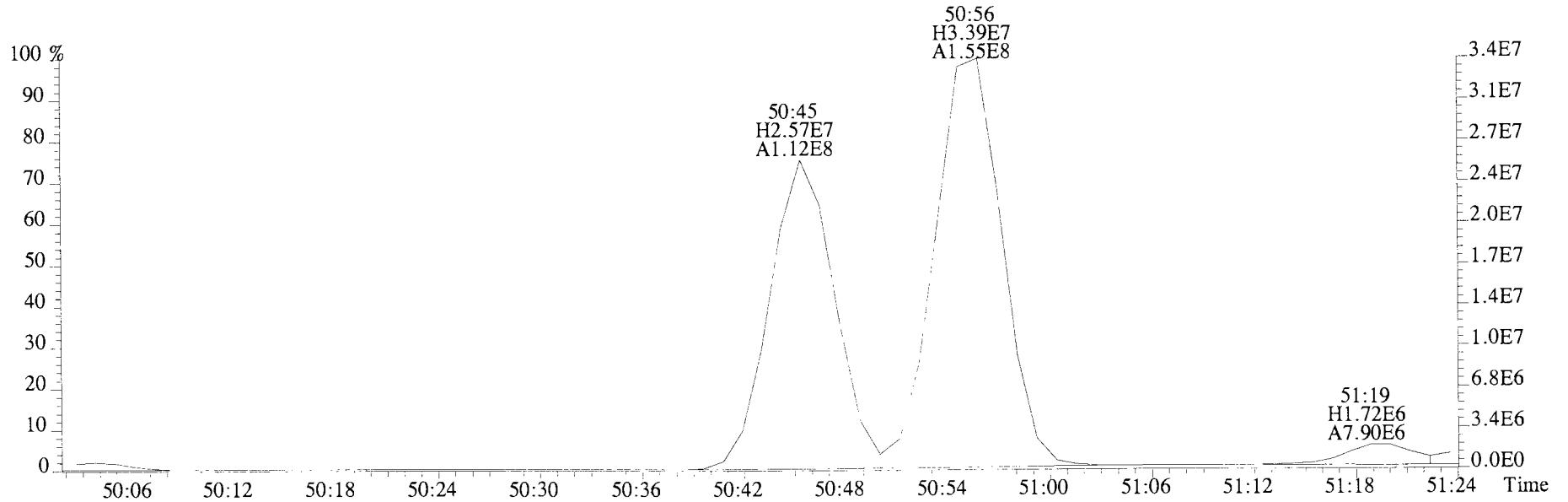
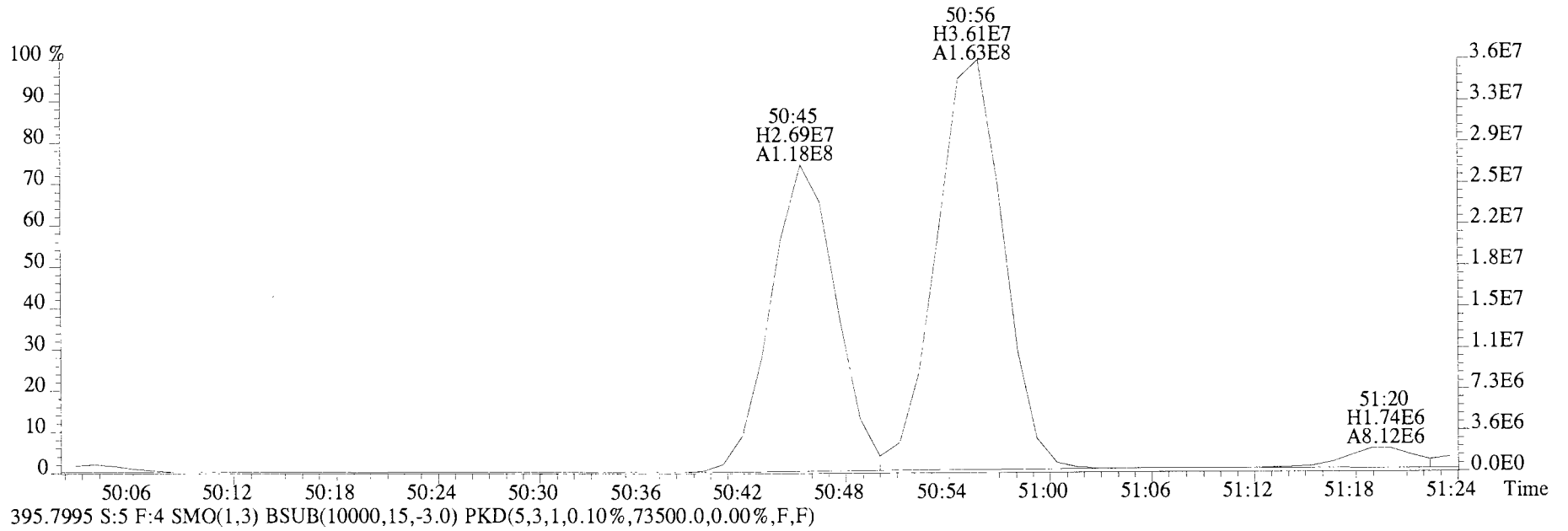




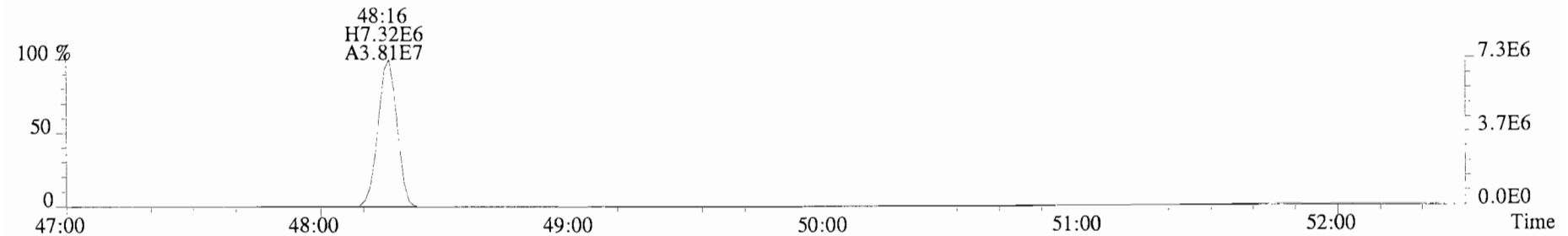
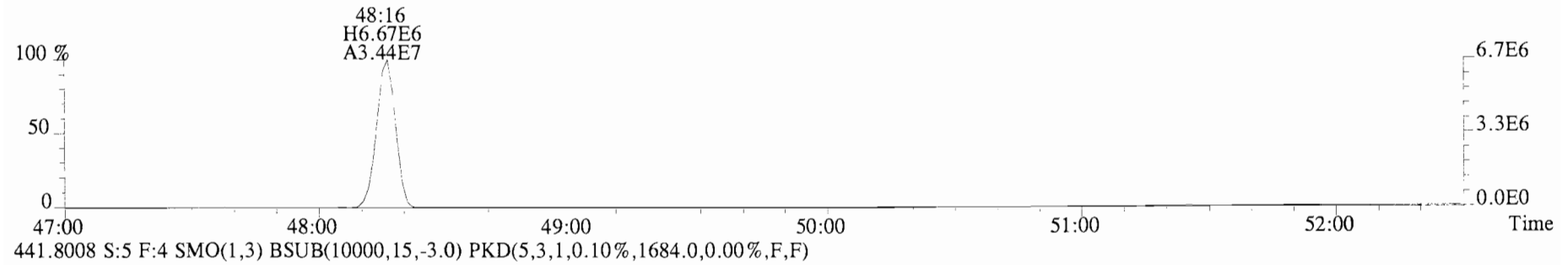
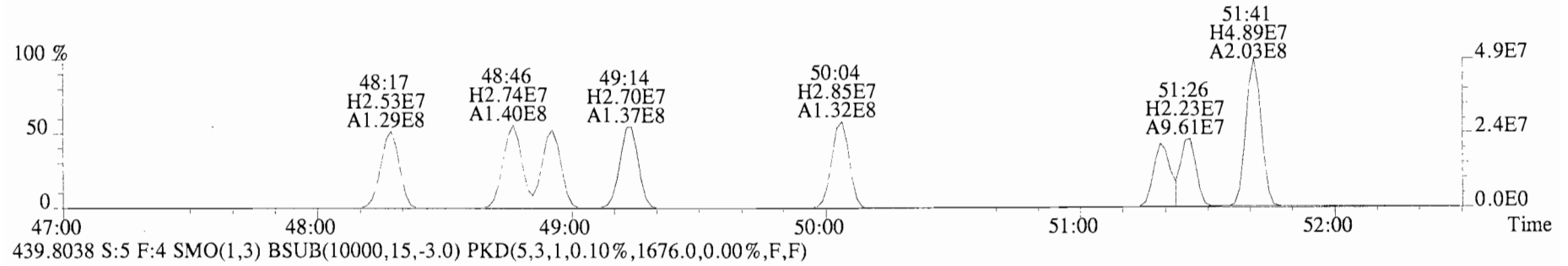
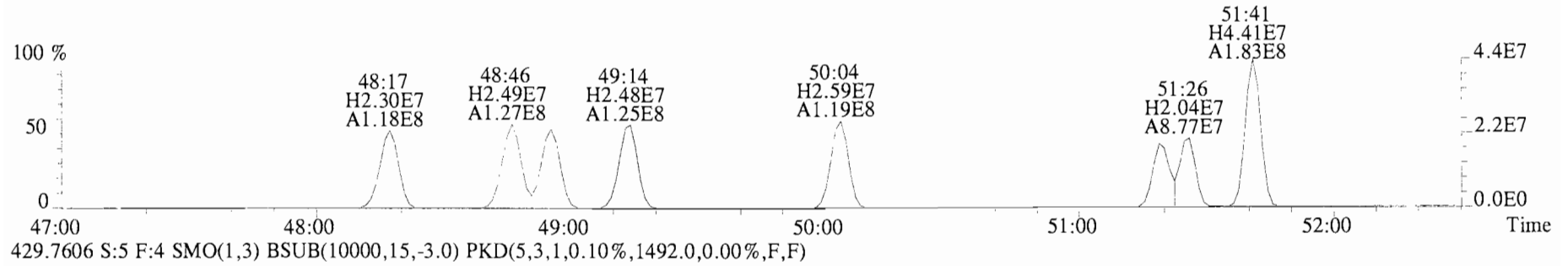
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,82212.0,0.00%,F,F)



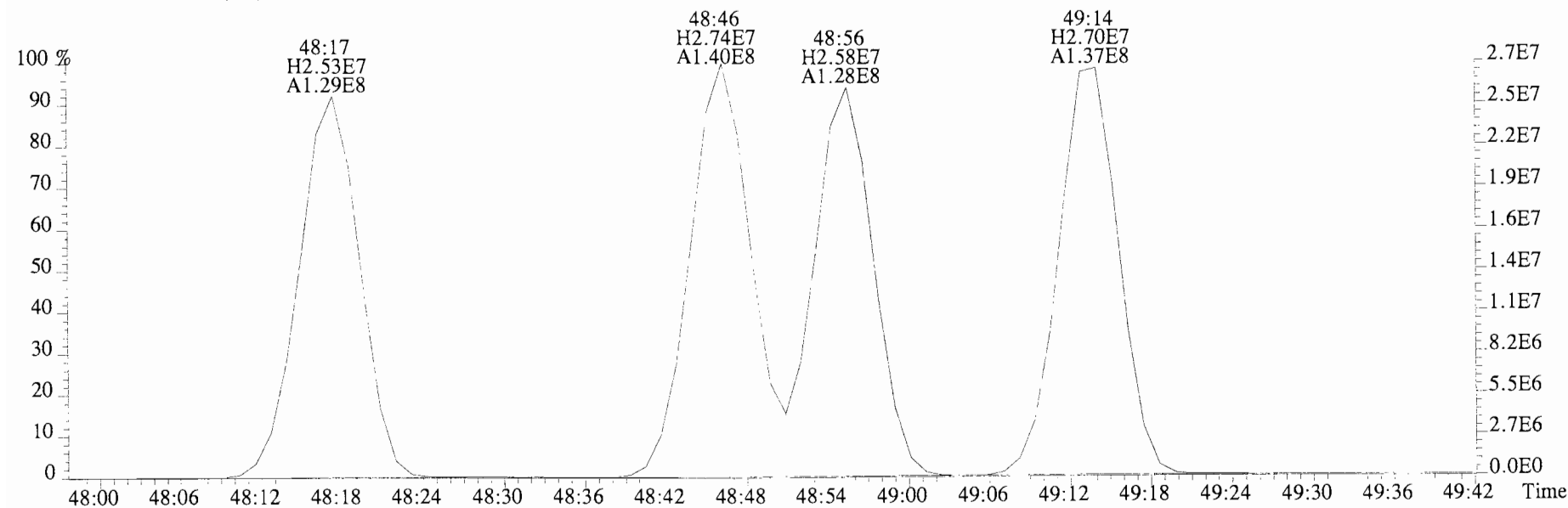
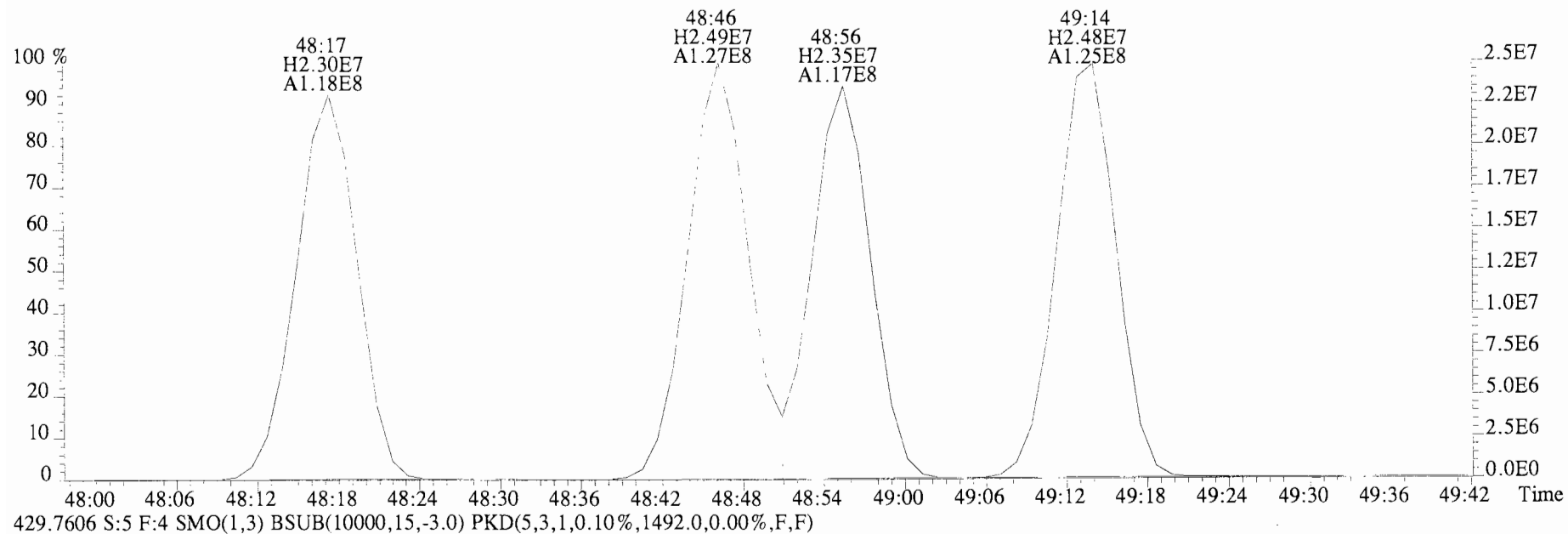
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,82212.0,0.00%,F,F)



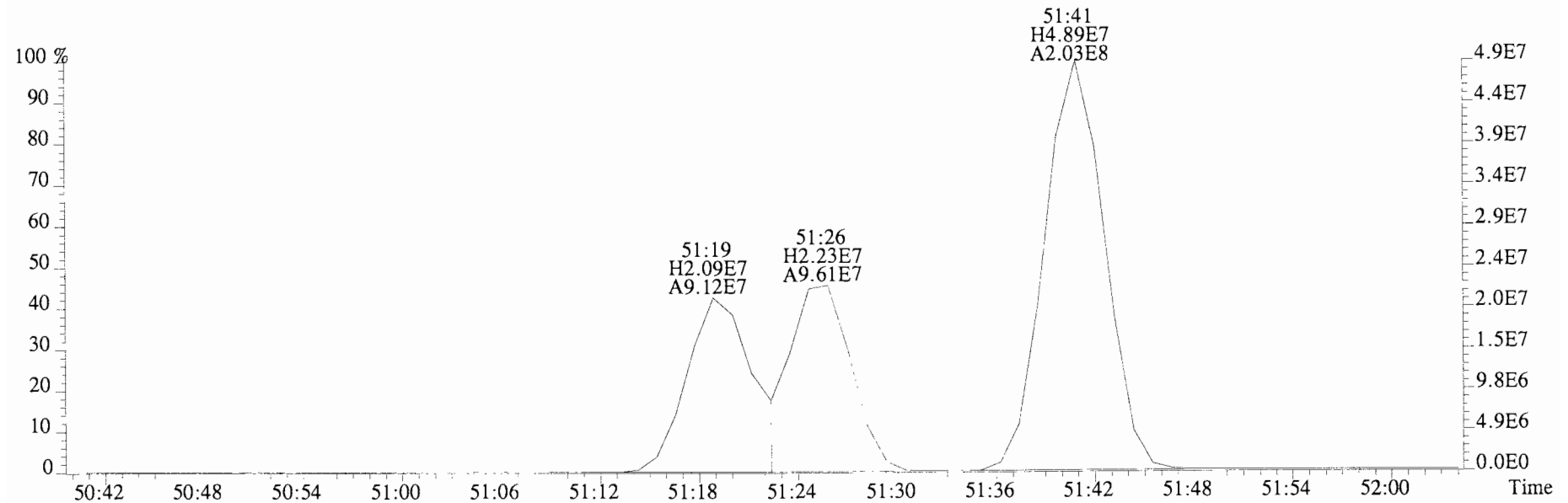
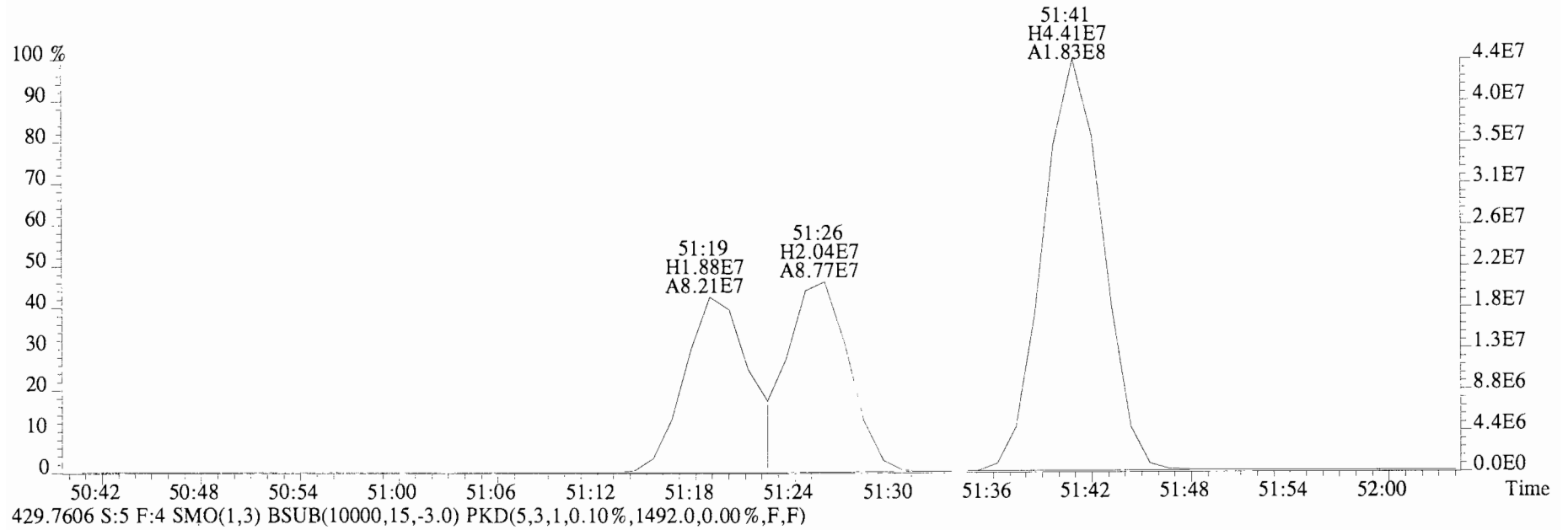
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1792.0,0.00%,F,F)



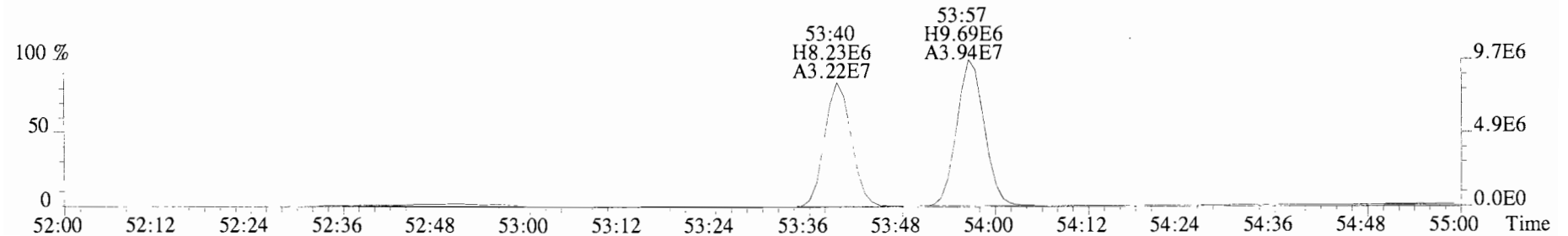
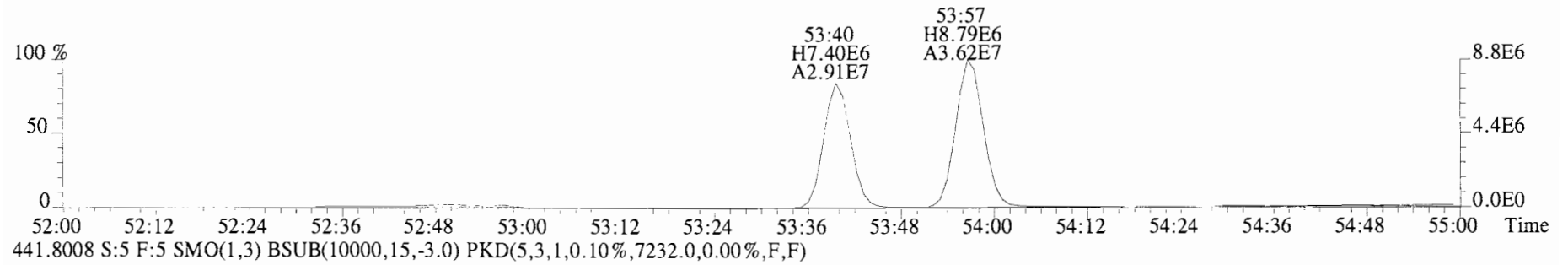
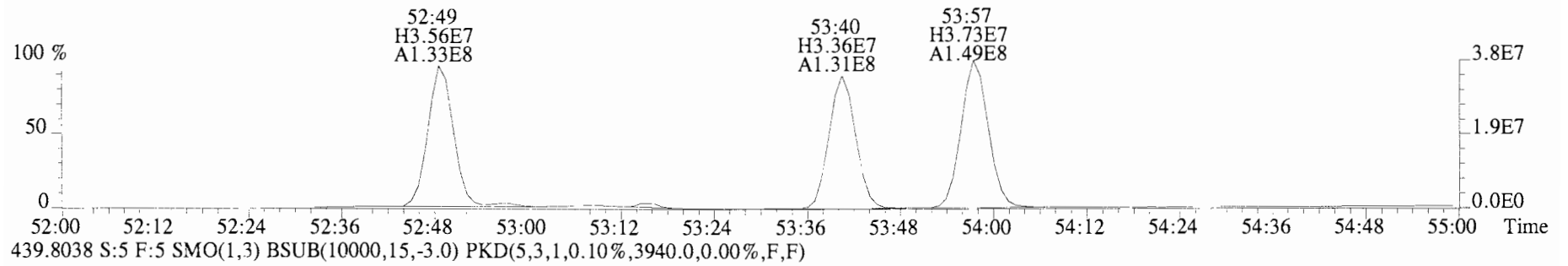
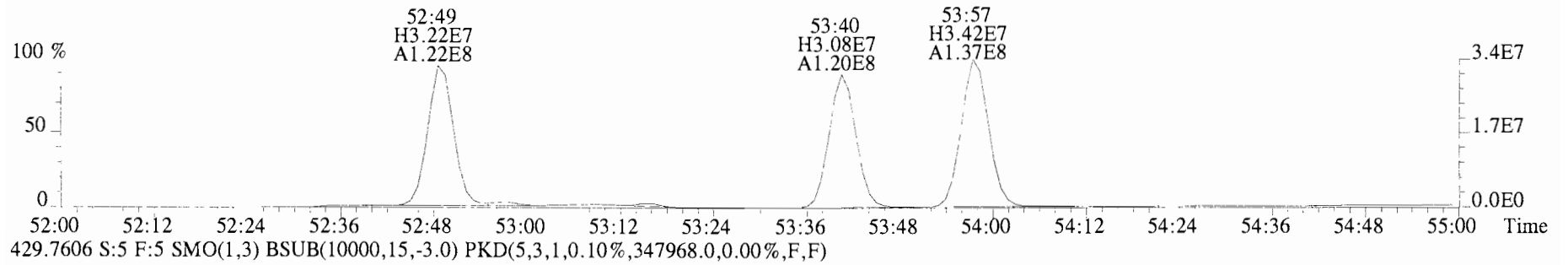
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1792.0,0.00%,F,F)



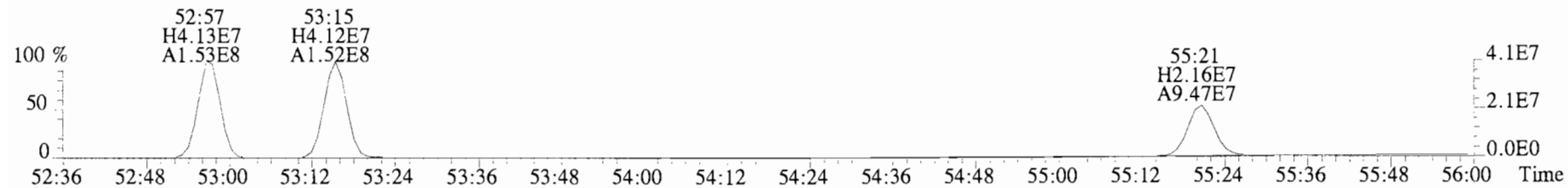
File:140620E1 #1-547 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1792.0,0.00%,F,F)



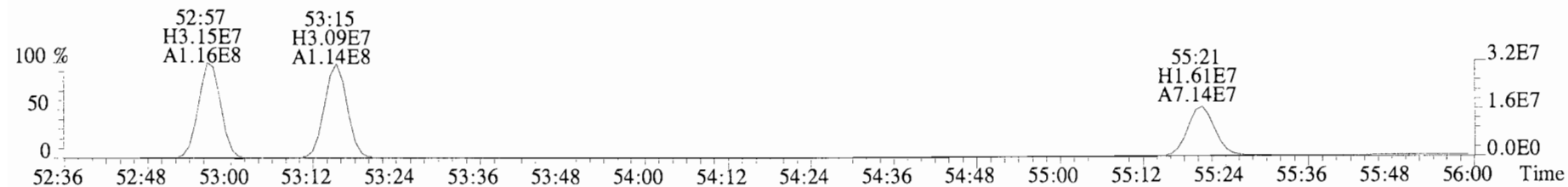
File:140620E1 #1-435 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,196172.0,0.00%,F,F)



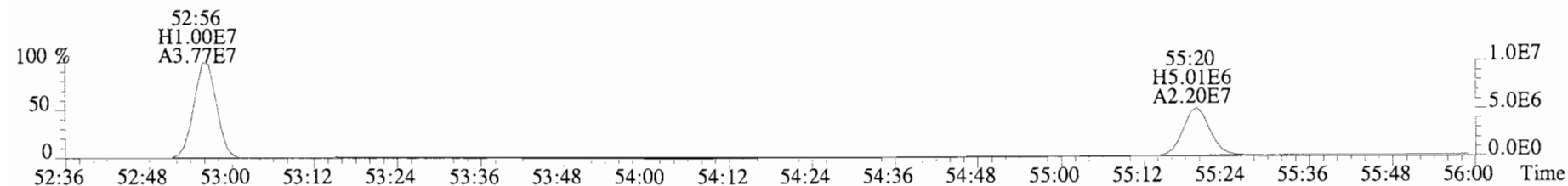
File:140620E1 #1-435 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,86988.0,0.00%,F,F)



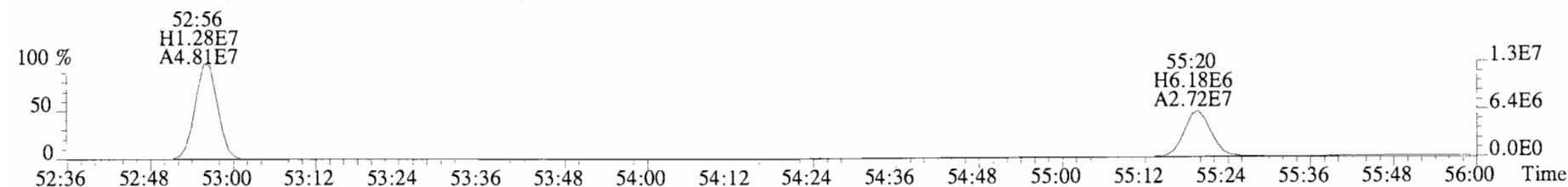
465.7186 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,65324.0,0.00%,F,F)



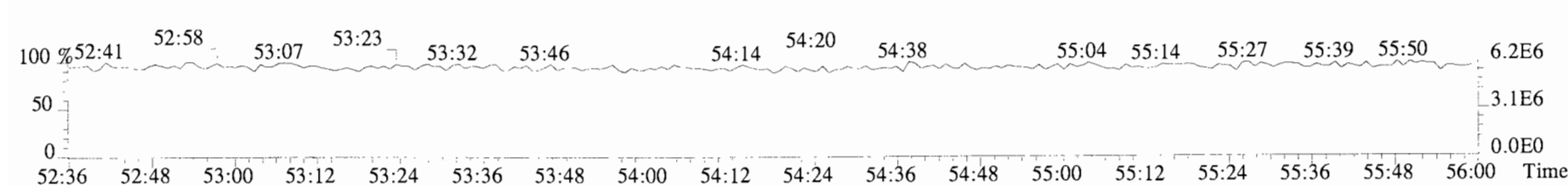
473.7648 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,23708.0,0.00%,F,F)



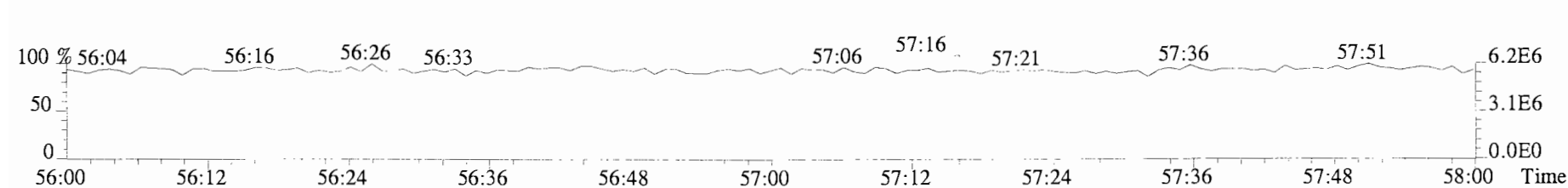
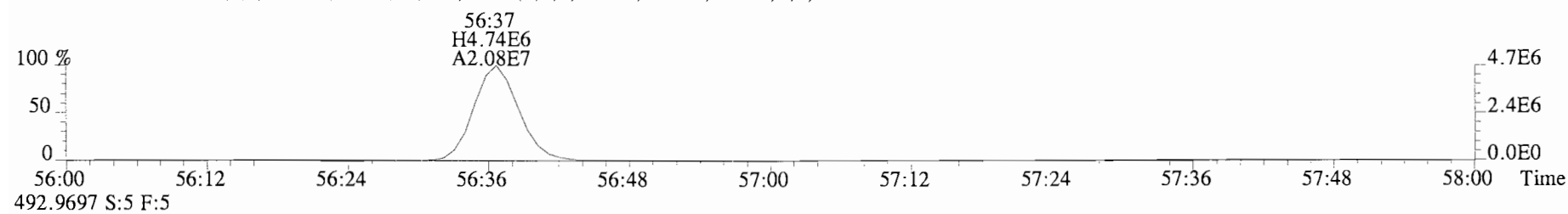
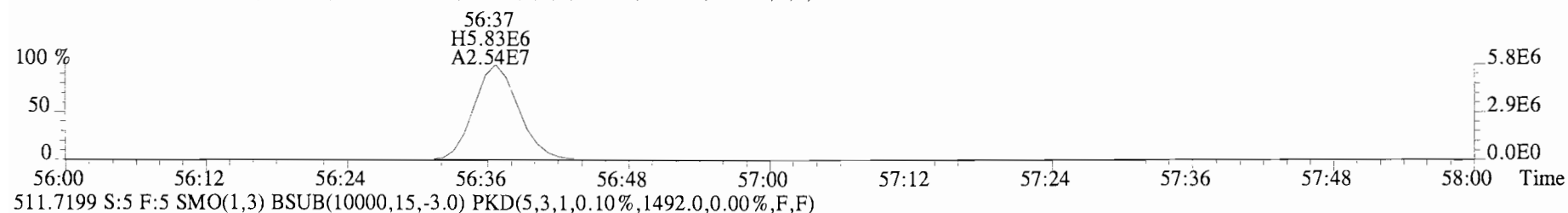
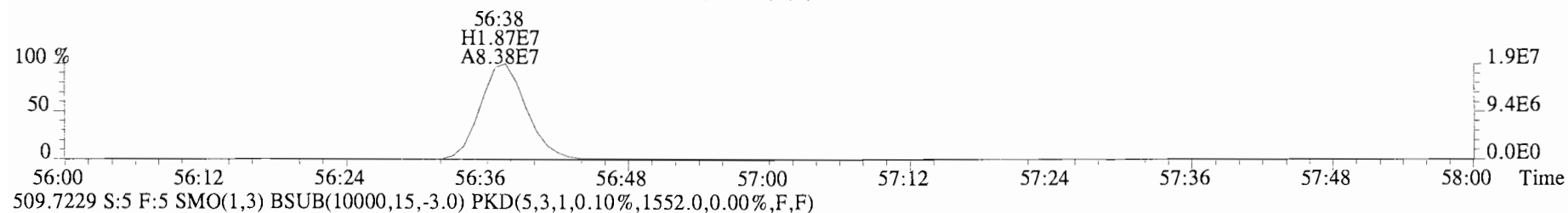
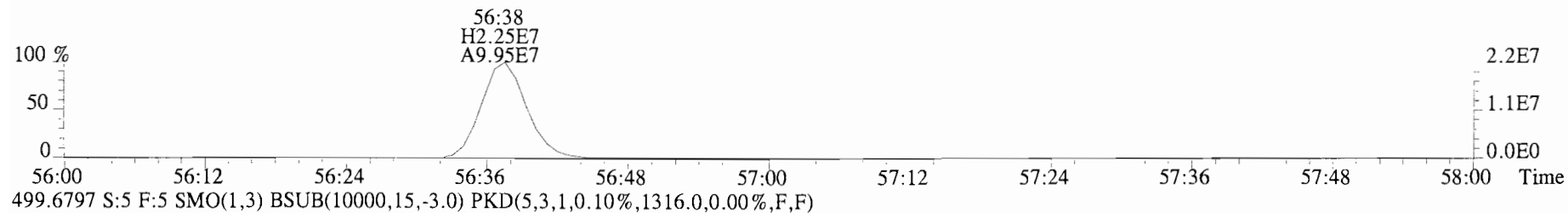
475.7619 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,32568.0,0.00%,F,F)



492.9697 S:5 F:5



File:140620E1 #1-435 Acq:20-JUN-2014 13:47:50 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-5 PCB CS4 13H1206 Exp:PCB\_ZB1  
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1516.0,0.00%,F,F)

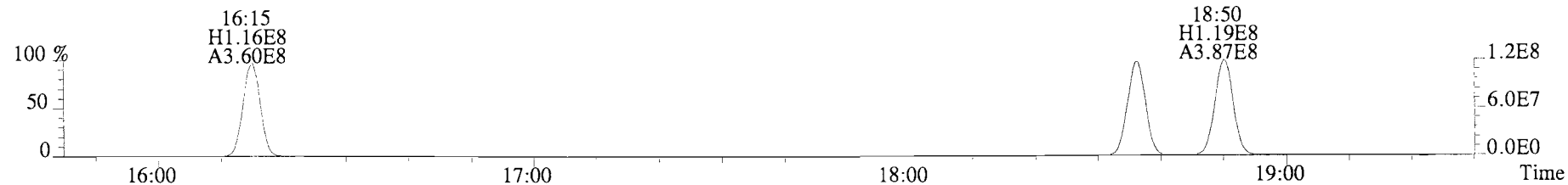




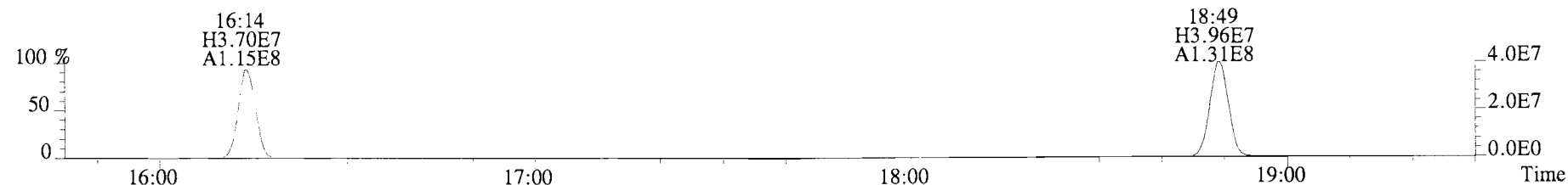
File:140620E1 #1-728 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,6080.0,0.00%,F,F)



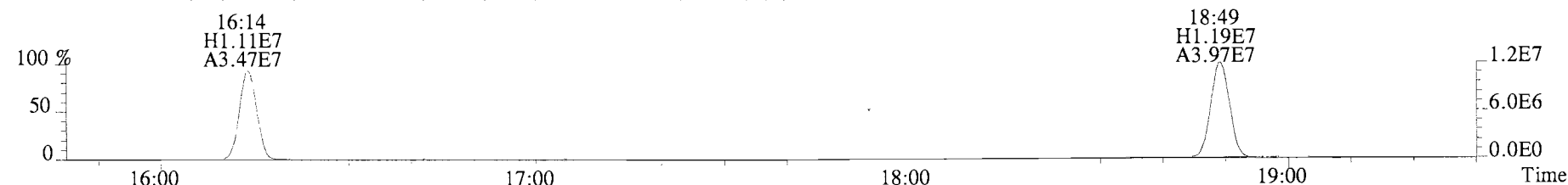
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4336.0,0.00%,F,F)



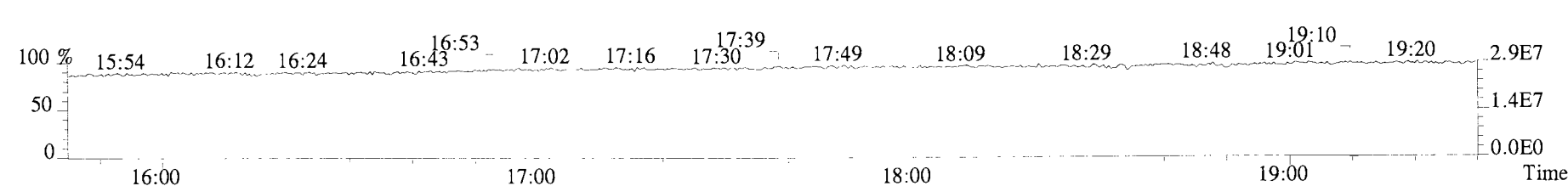
200.0795 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4624.0,0.00%,F,F)



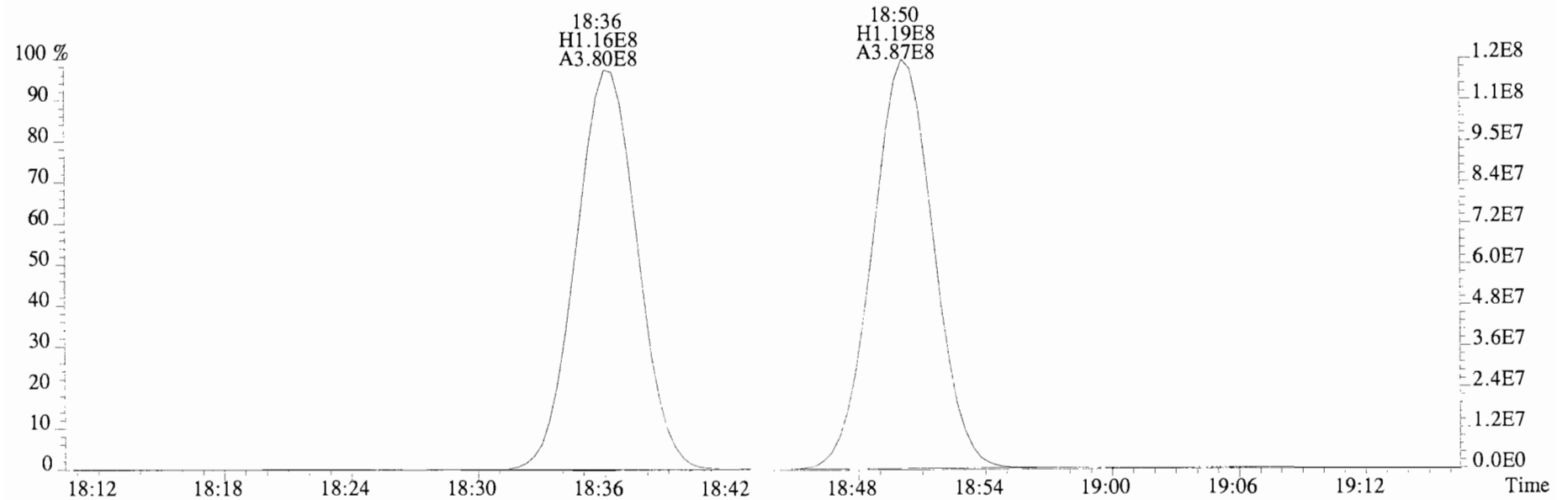
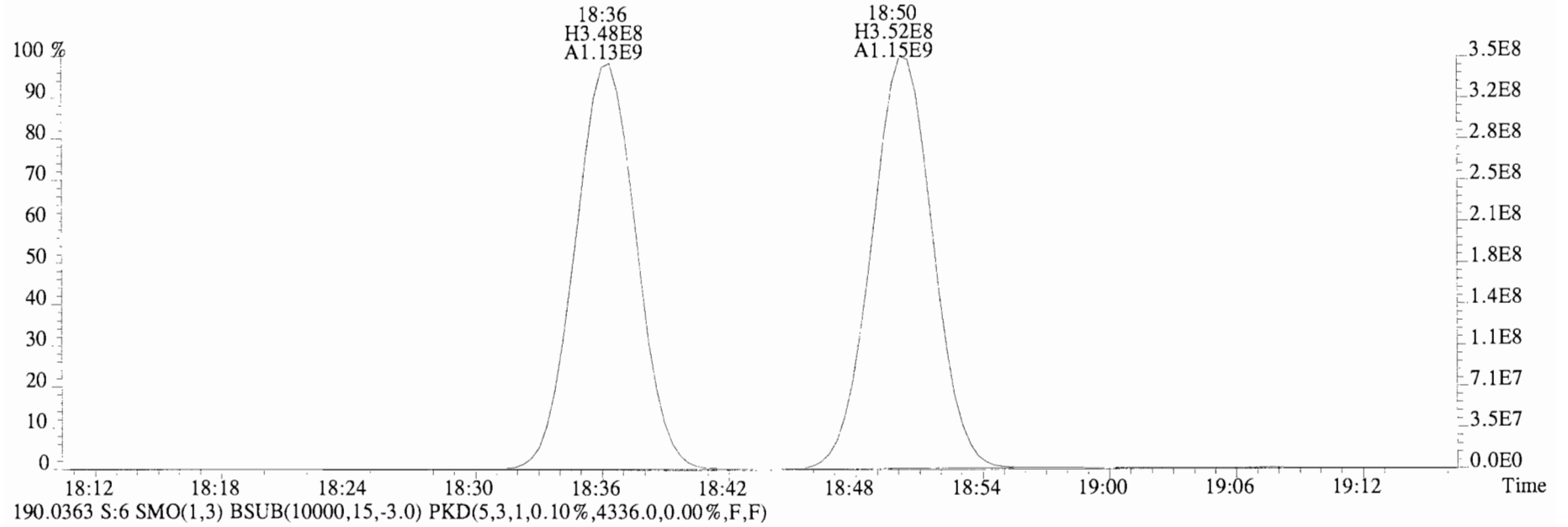
202.0766 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,28696.0,0.00%,F,F)



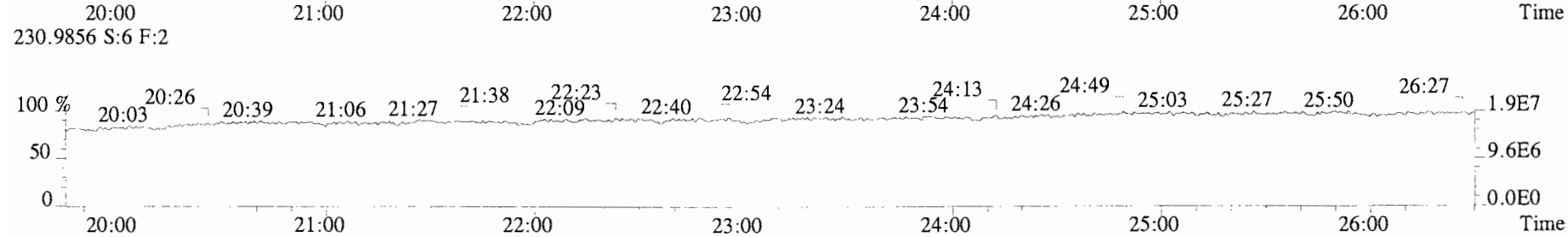
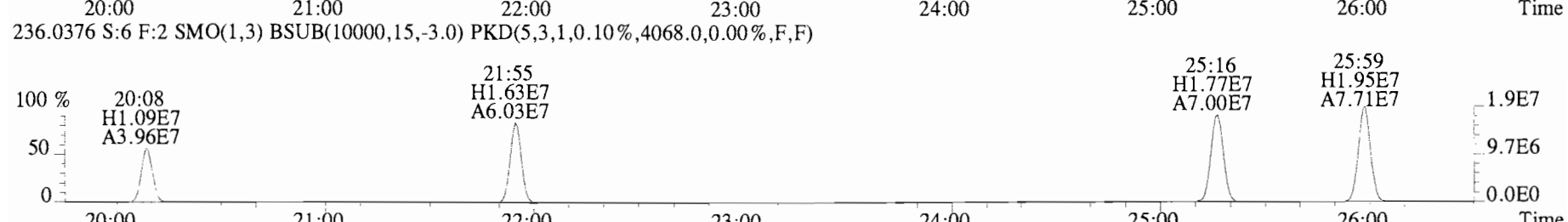
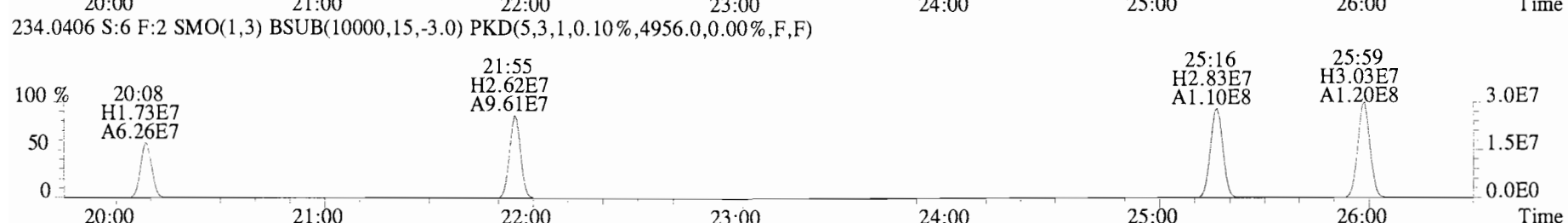
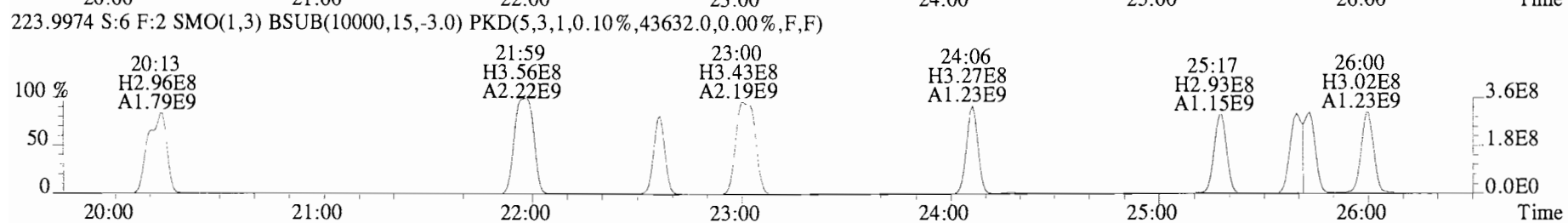
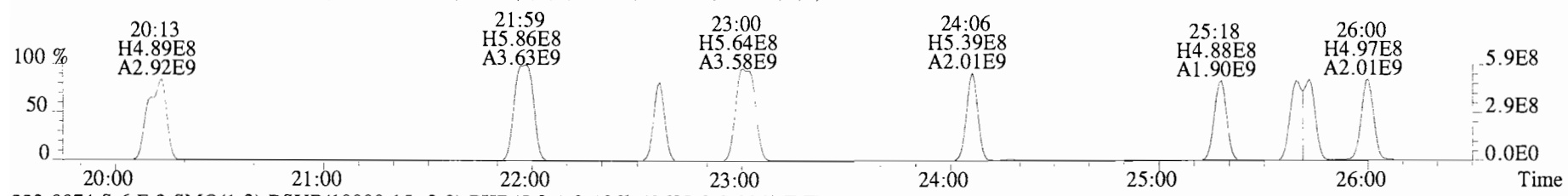
180.9880 S:6



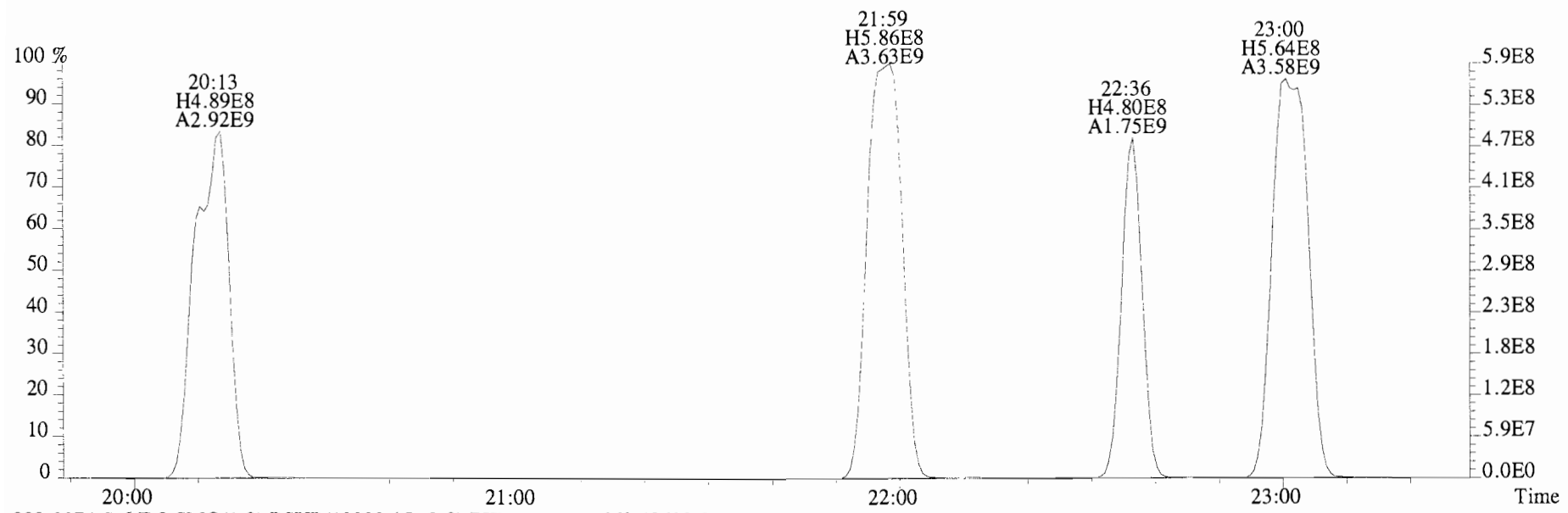
File:140620E1 #1-728 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,6080.0,0.00%,F,F)



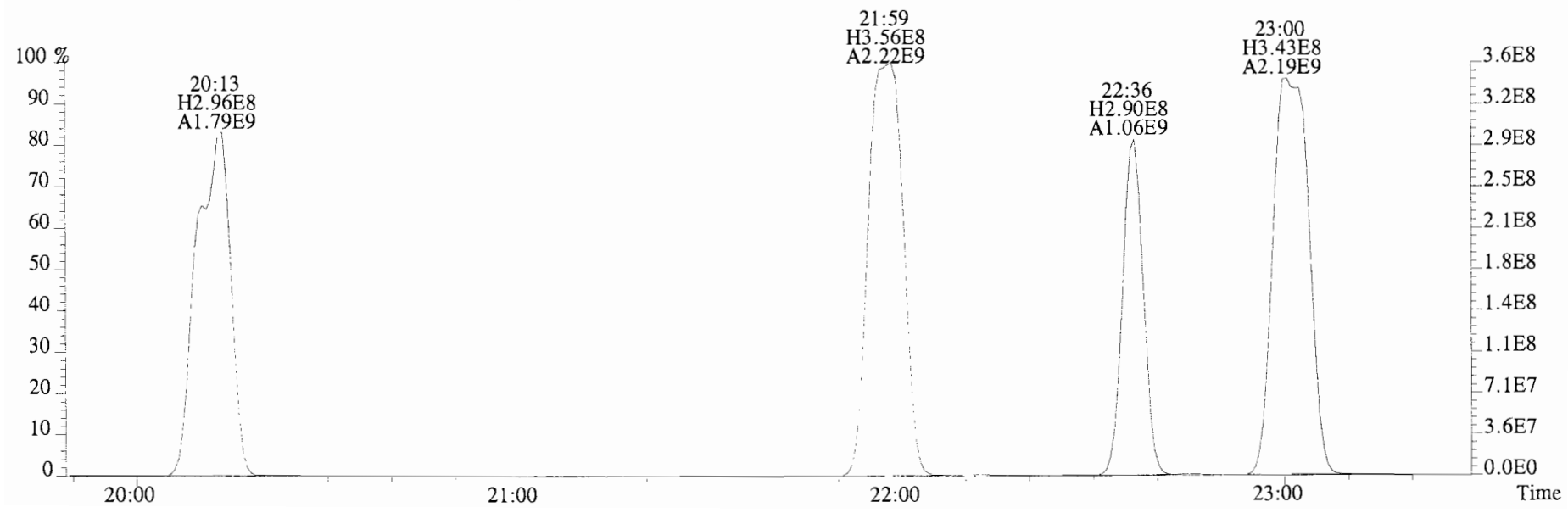
File:140620E1 #1-750 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,25648.0,0.00%,F,F)



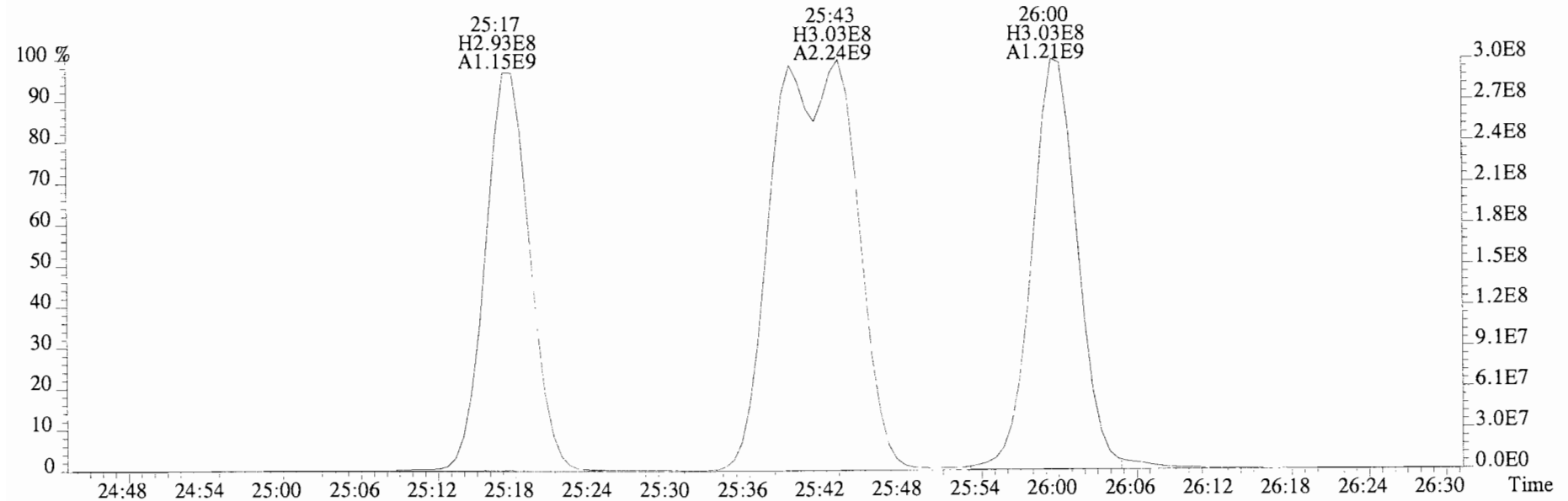
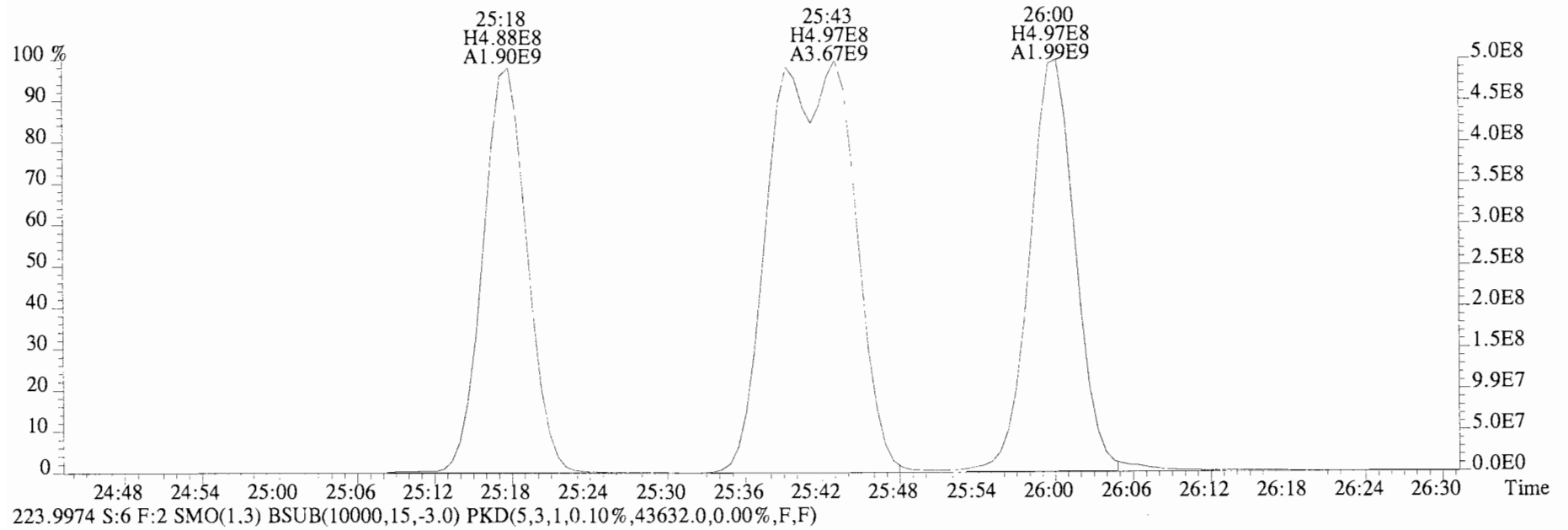
File:140620E1 #1-750 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,25648.0,0.00%,F,F)



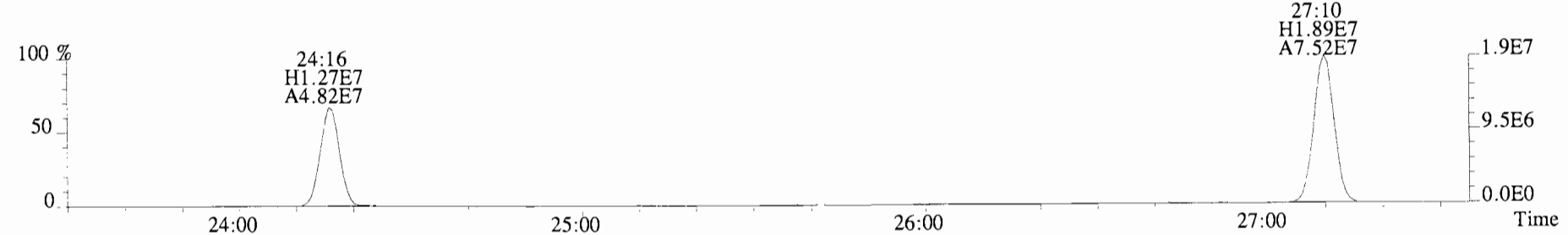
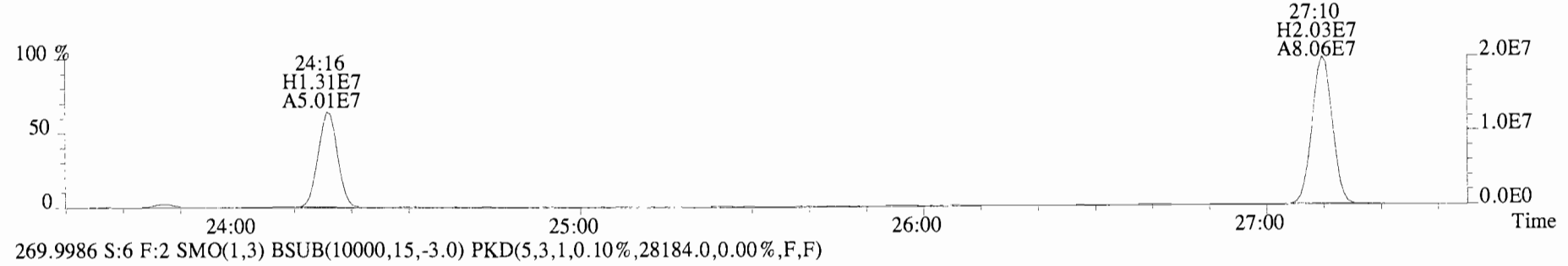
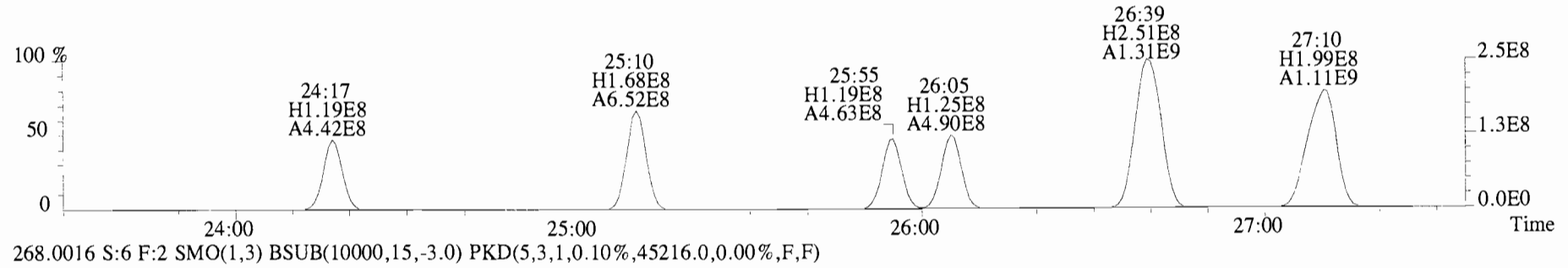
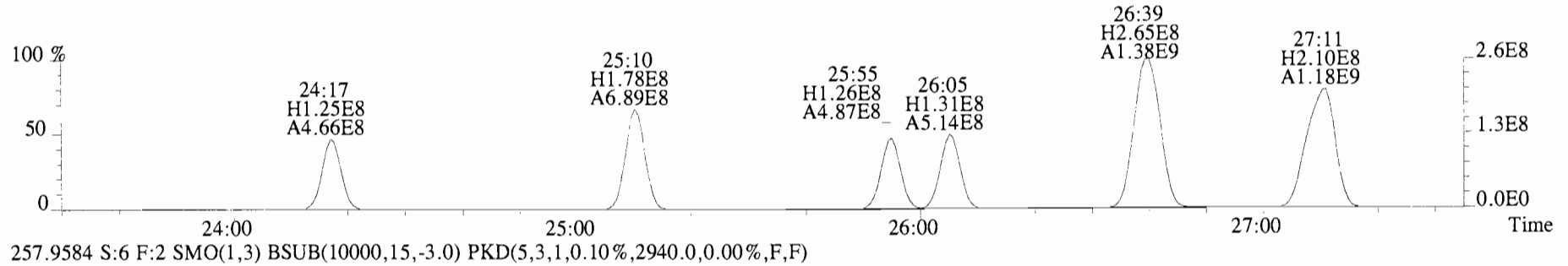
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,43632.0,0.00%,F,F)



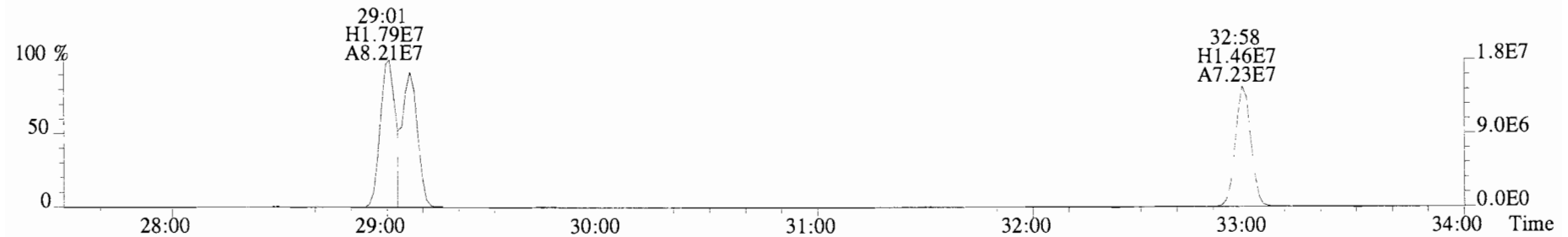
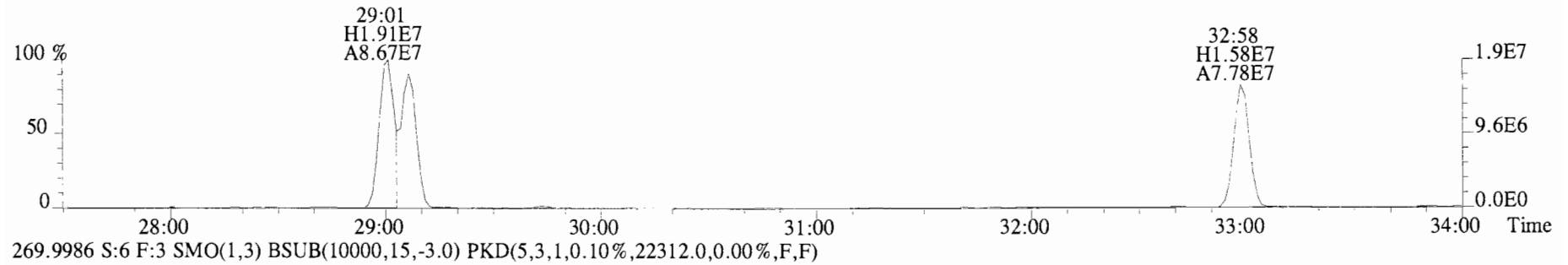
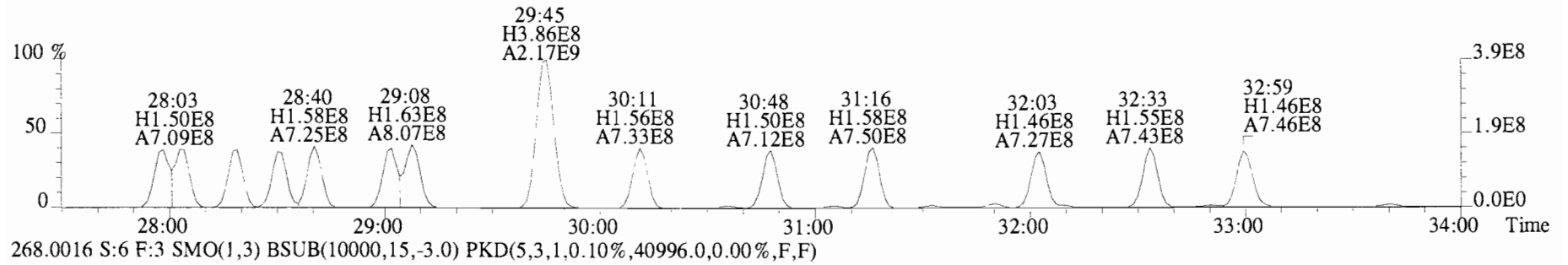
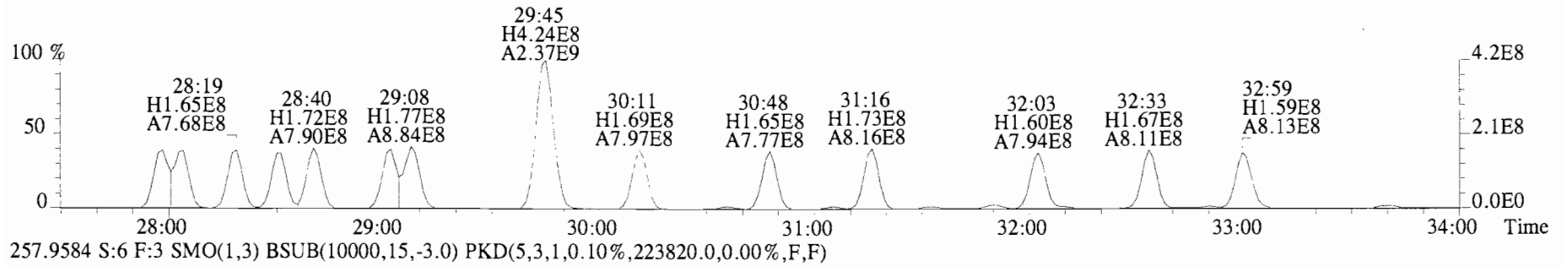
File:140620E1 #1-750 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,25648.0,0.00%,F,F)



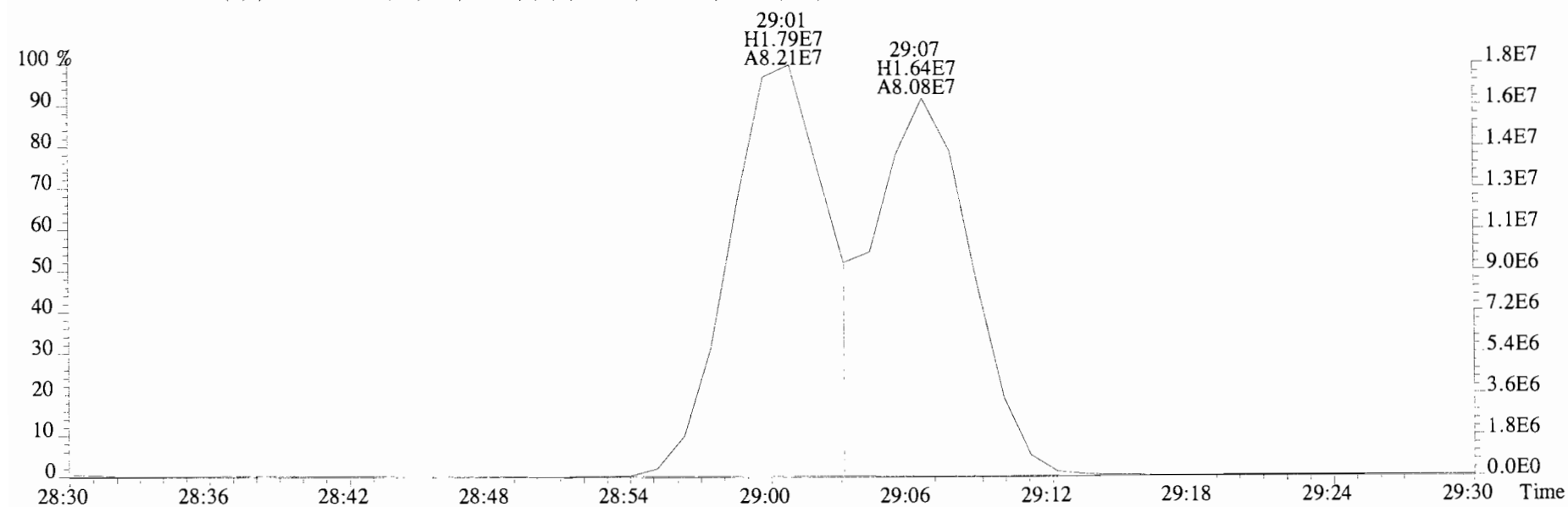
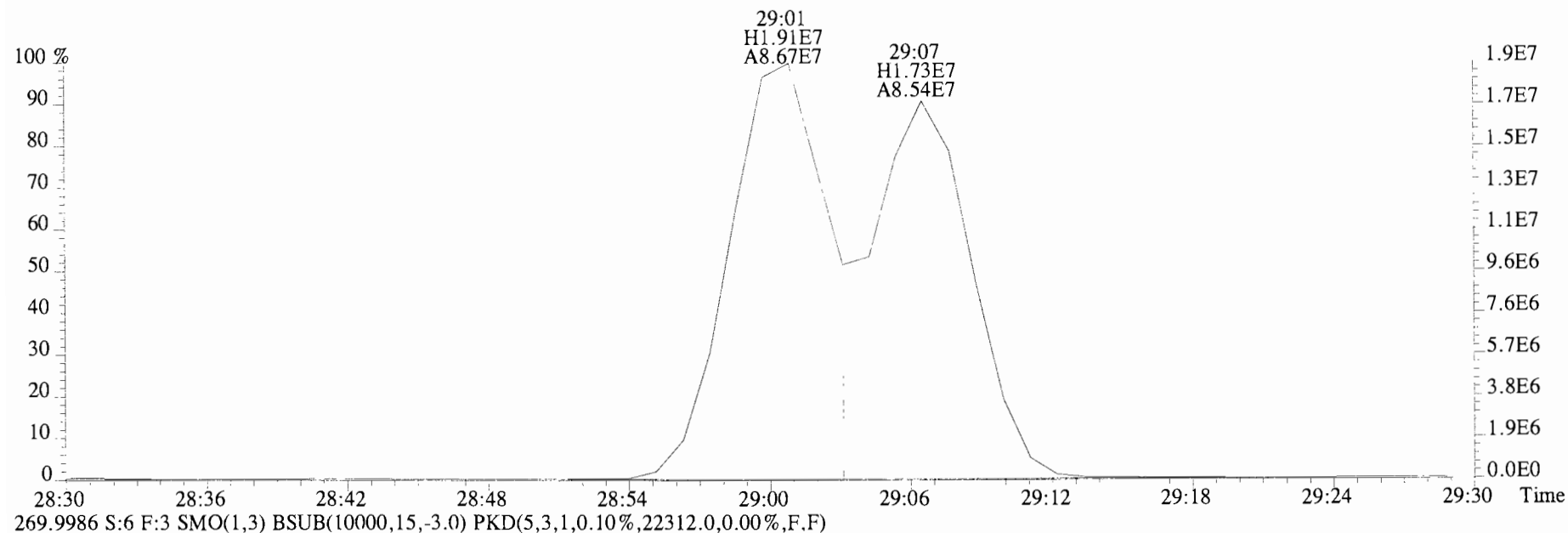
File:140620E1 #1-750 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,3452.0,0.00%,F,F)



File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
 255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,263256.0,0.00%,F,F)

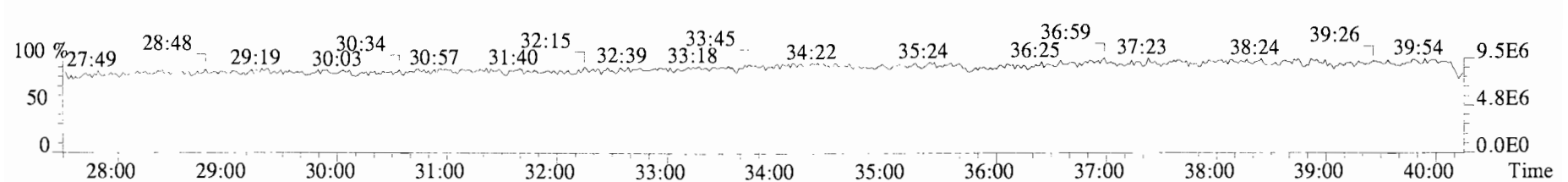
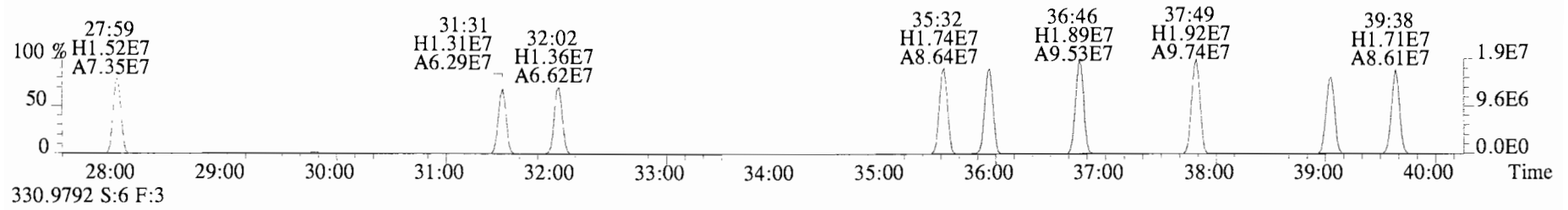
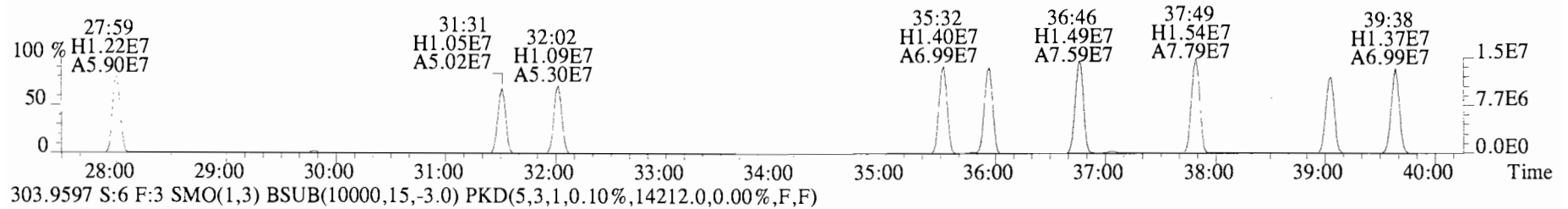
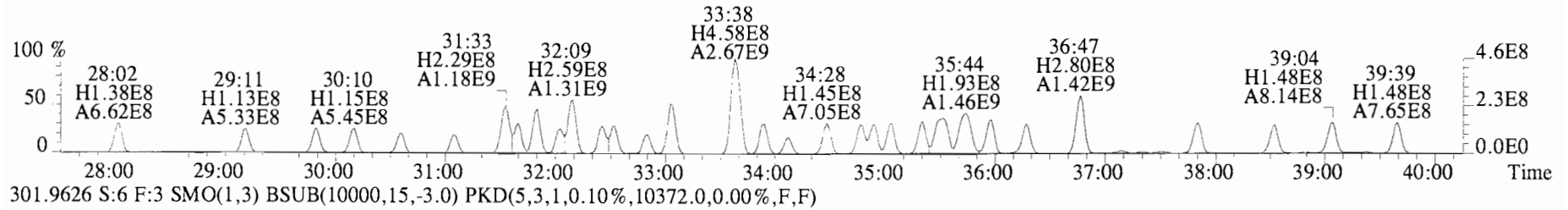
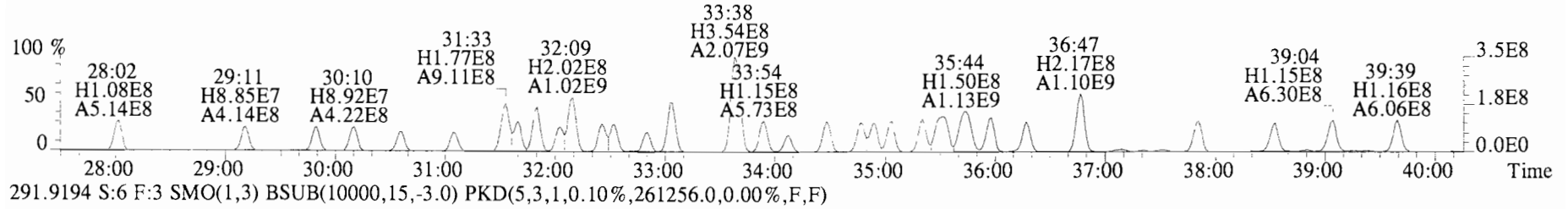


File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,40996.0,0.00%,F,F)

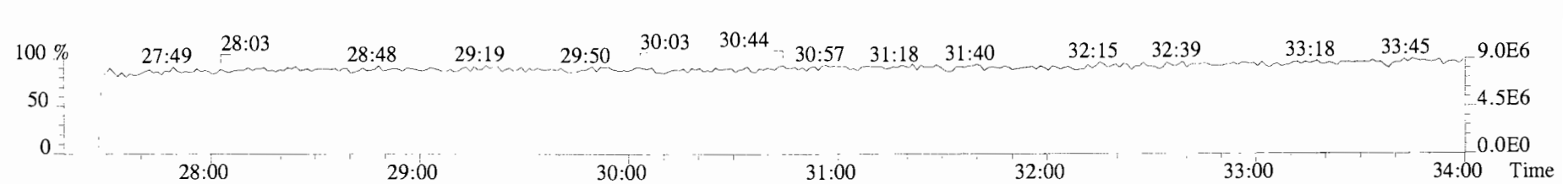
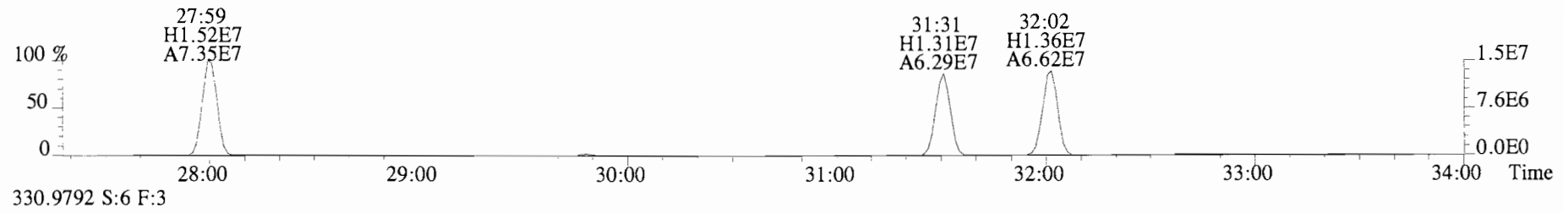
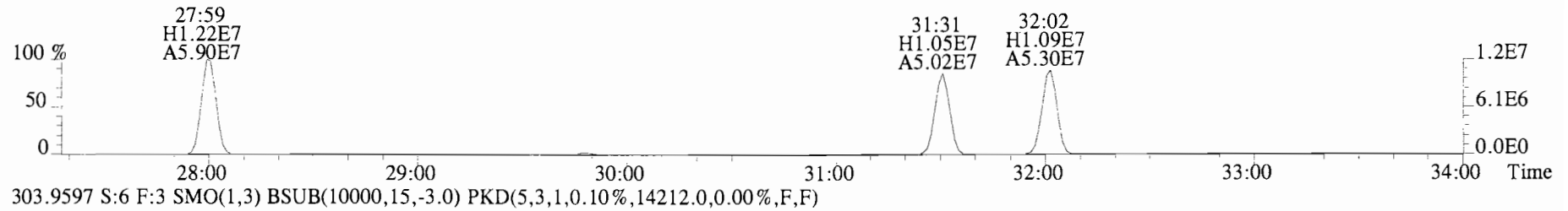
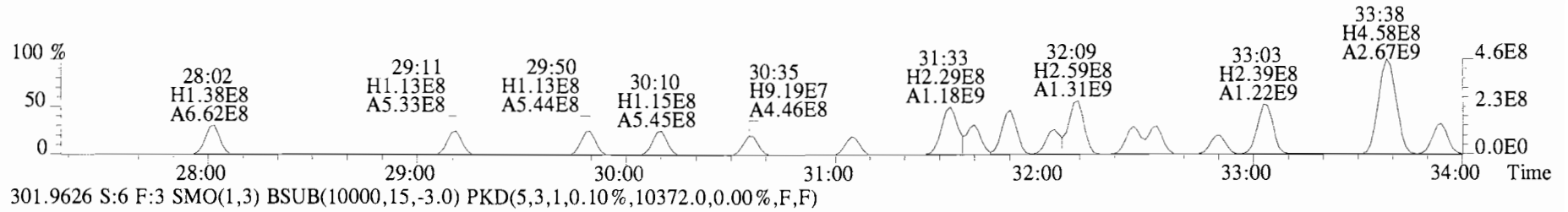
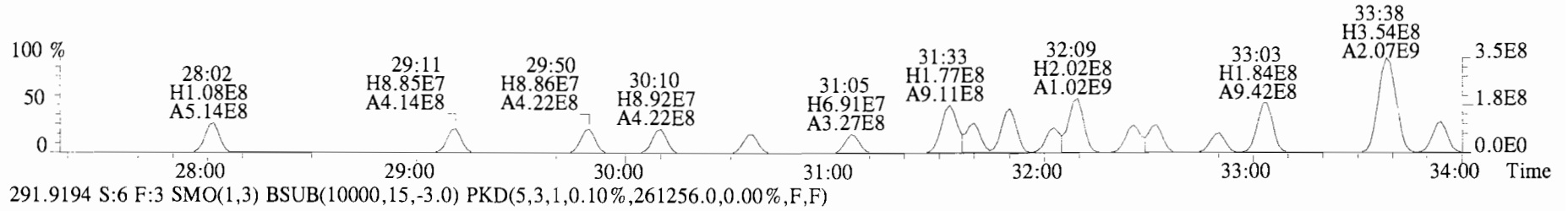




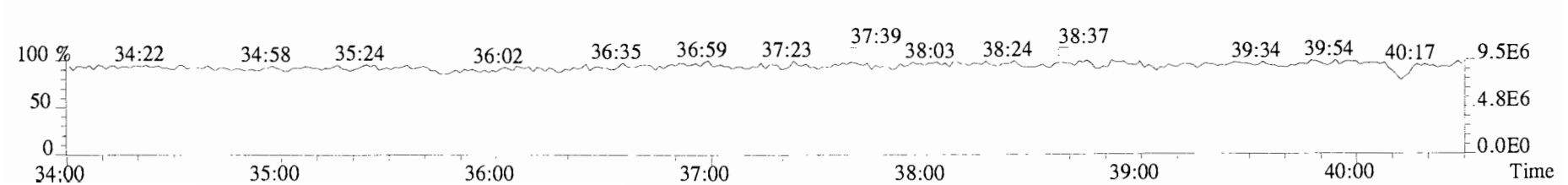
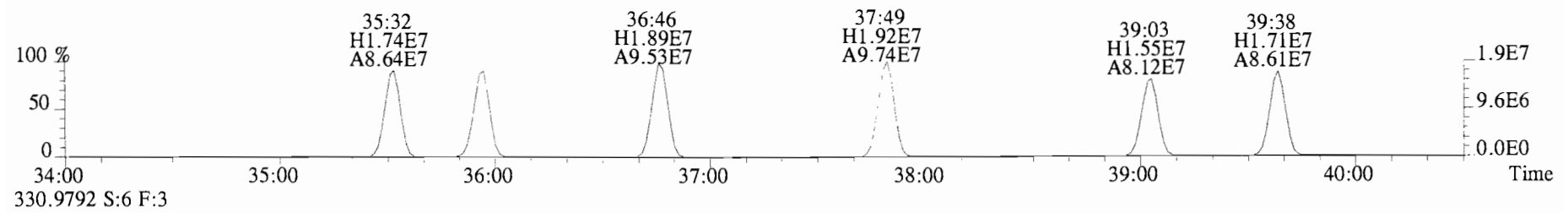
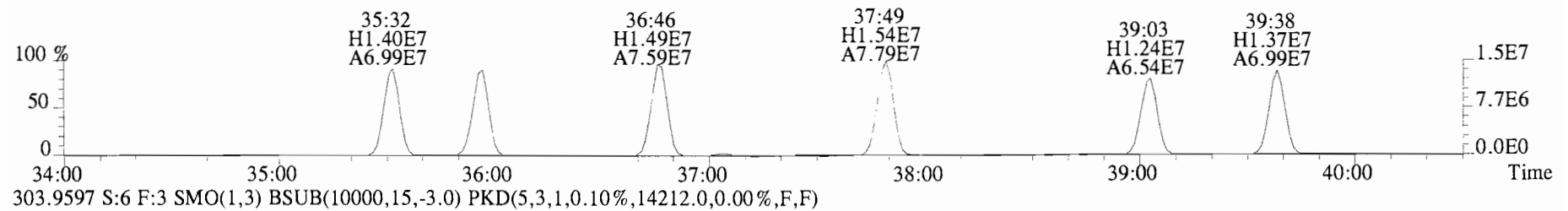
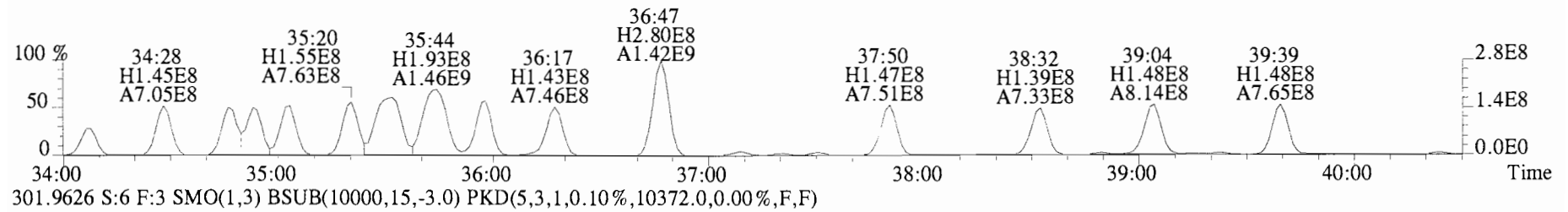
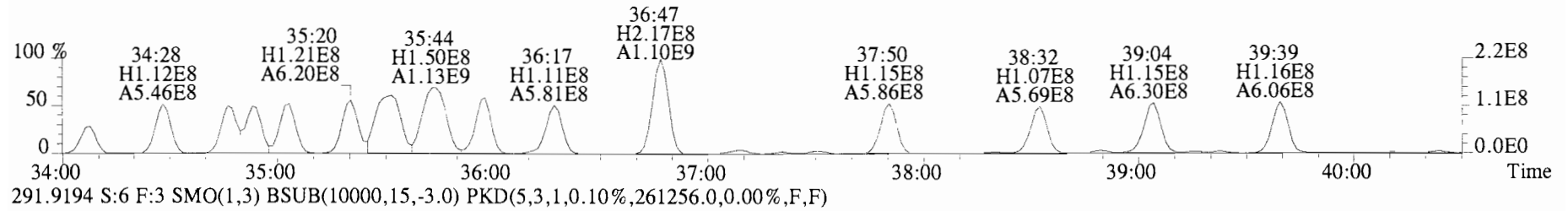
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,196528.0,0.00%,F,F)



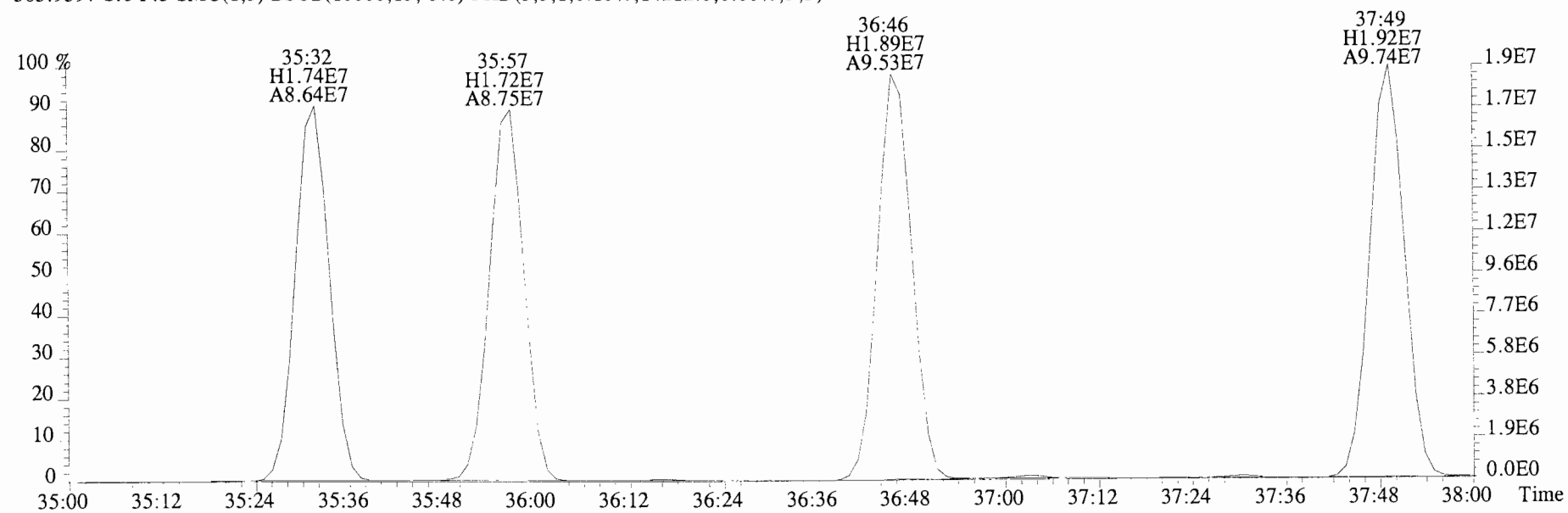
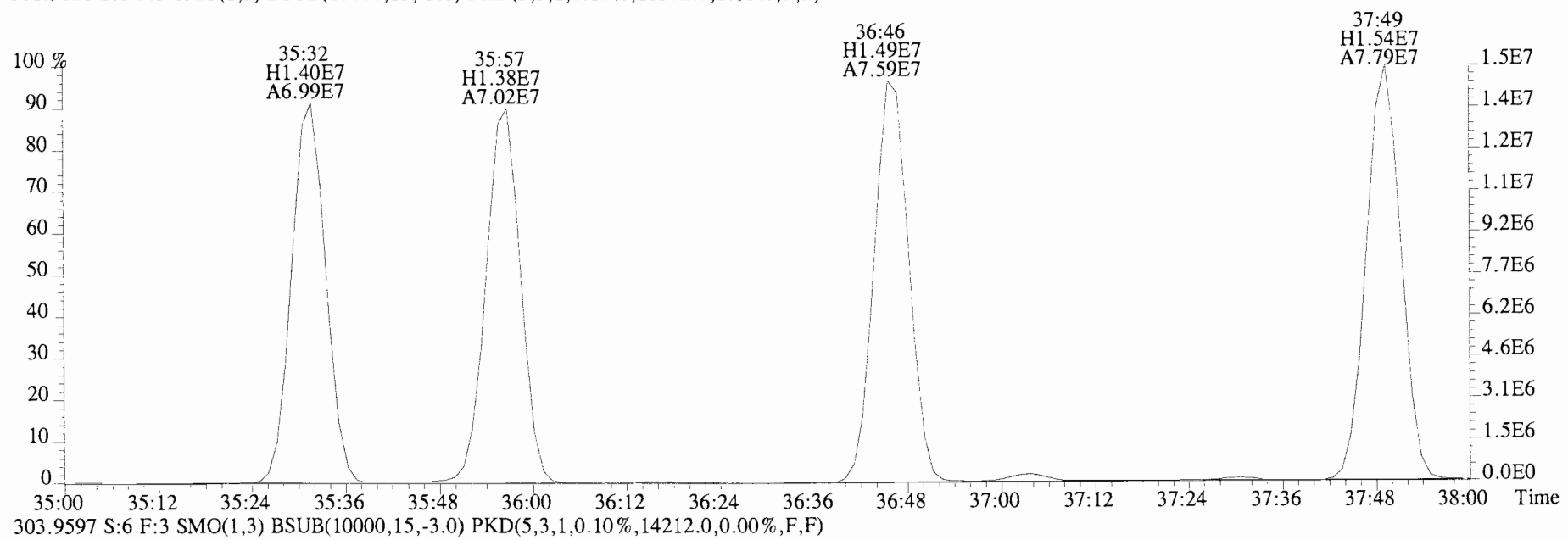
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,196528.0,0.00%,F,F)



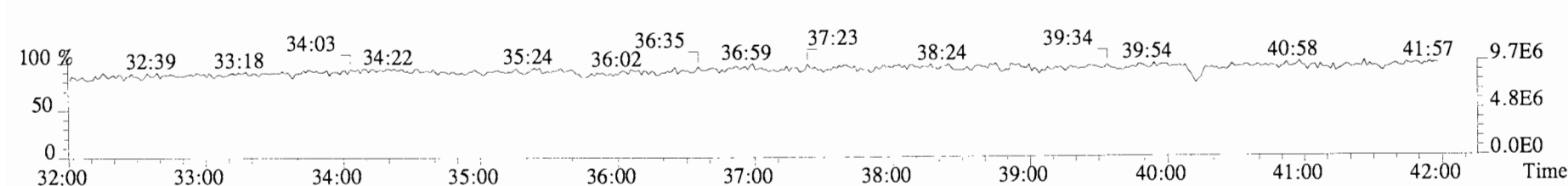
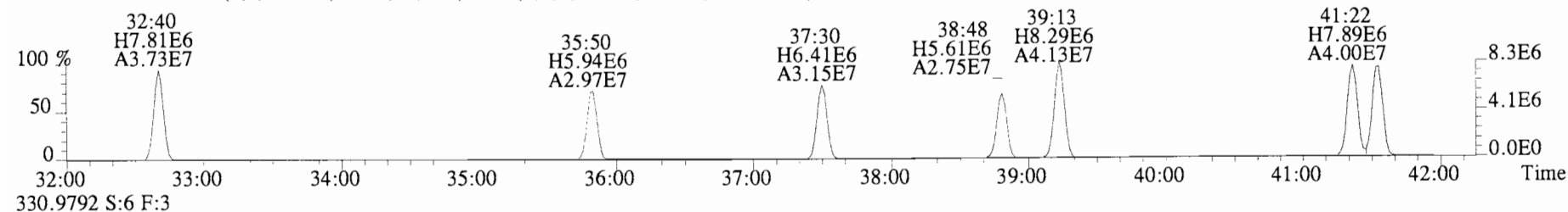
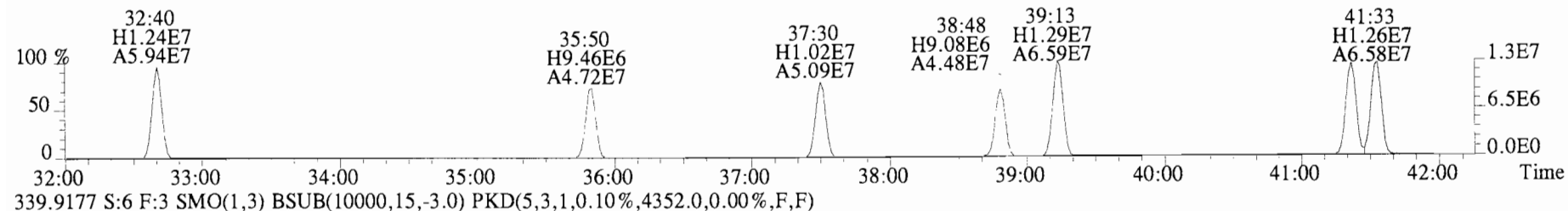
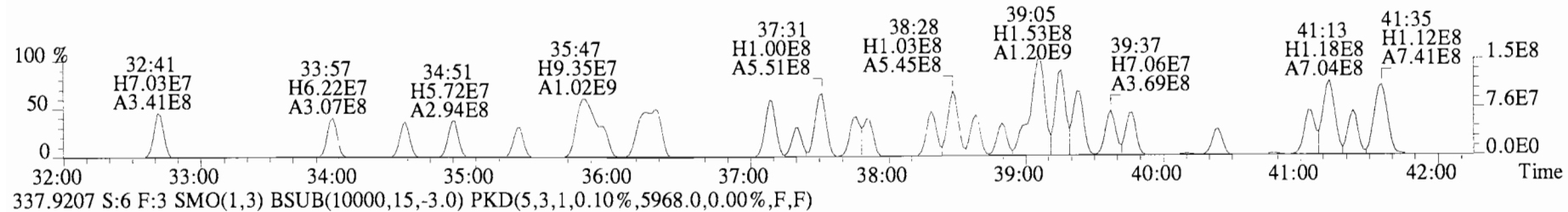
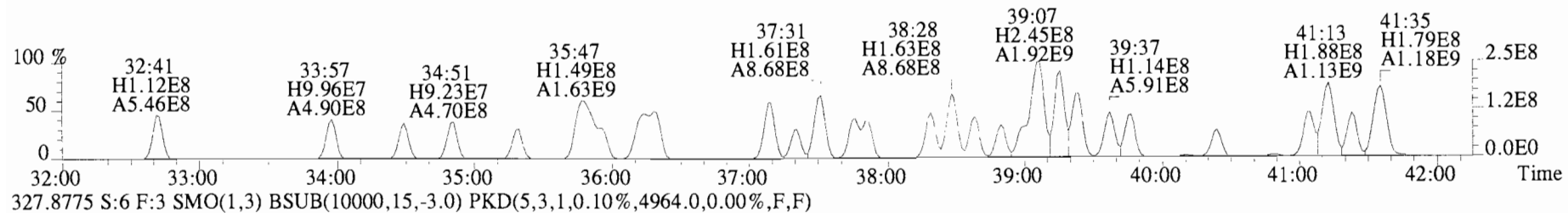
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,196528.0,0.00%,F,F)



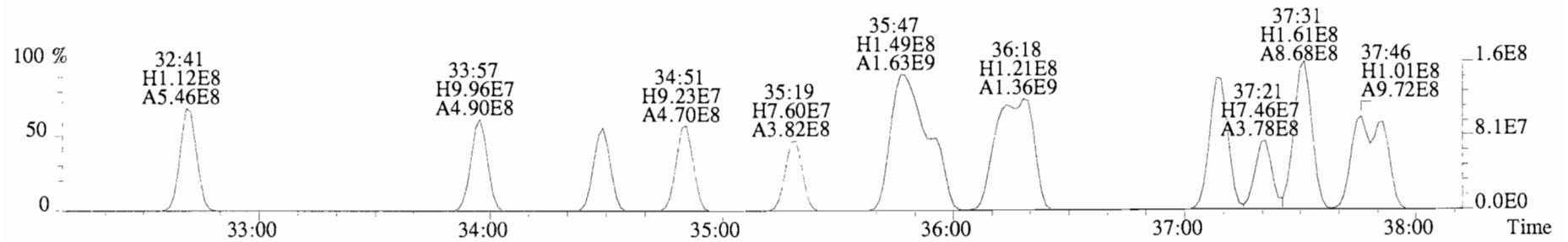
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10372.0,0.00%,F,F)



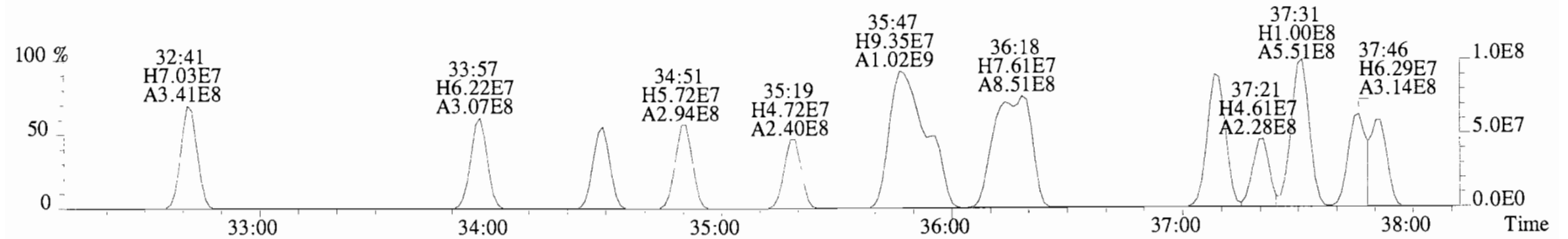
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7200.0,0.00%,F,F)



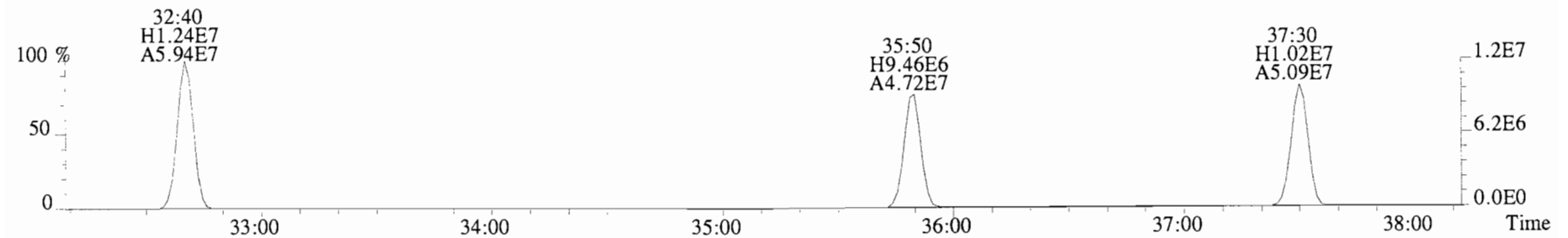
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7200.0,0.00%,F,F)



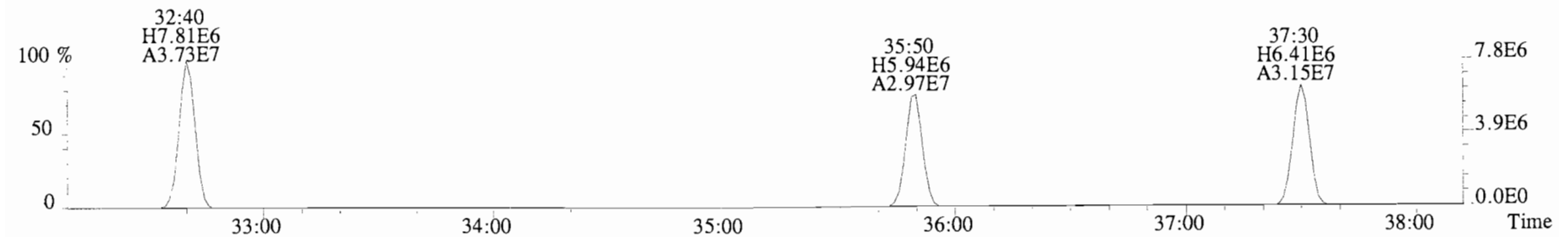
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4964.0,0.00%,F,F)



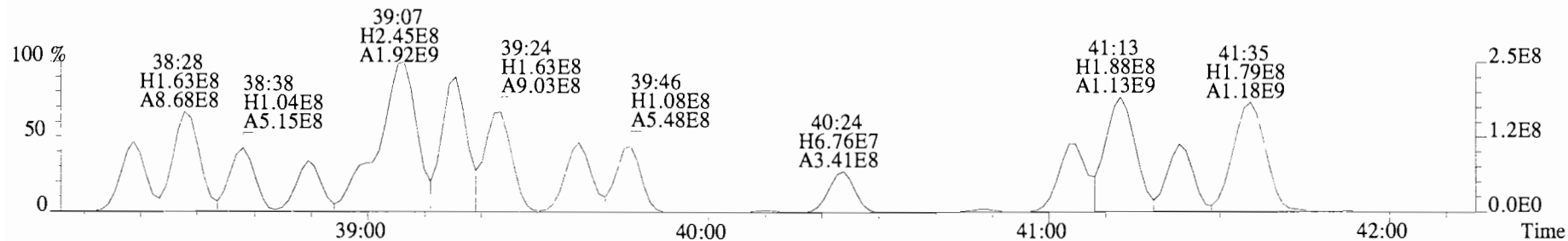
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5968.0,0.00%,F,F)



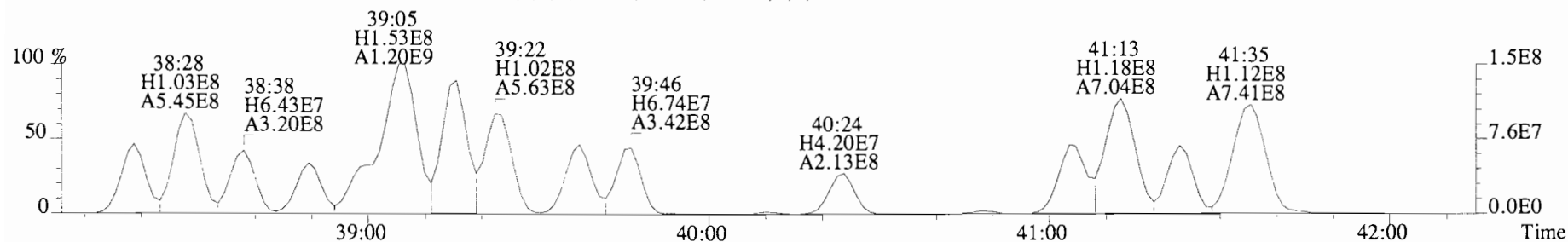
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4352.0,0.00%,F,F)



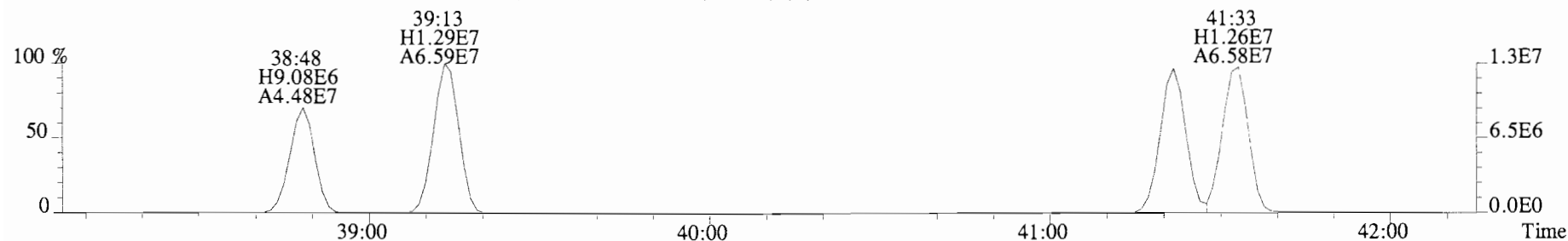
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,7200.0,0.00%,F,F)



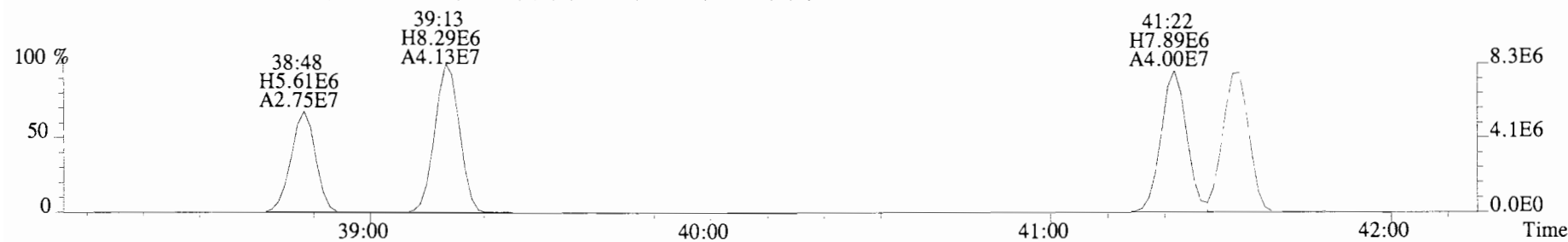
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4964.0,0.00%,F,F)



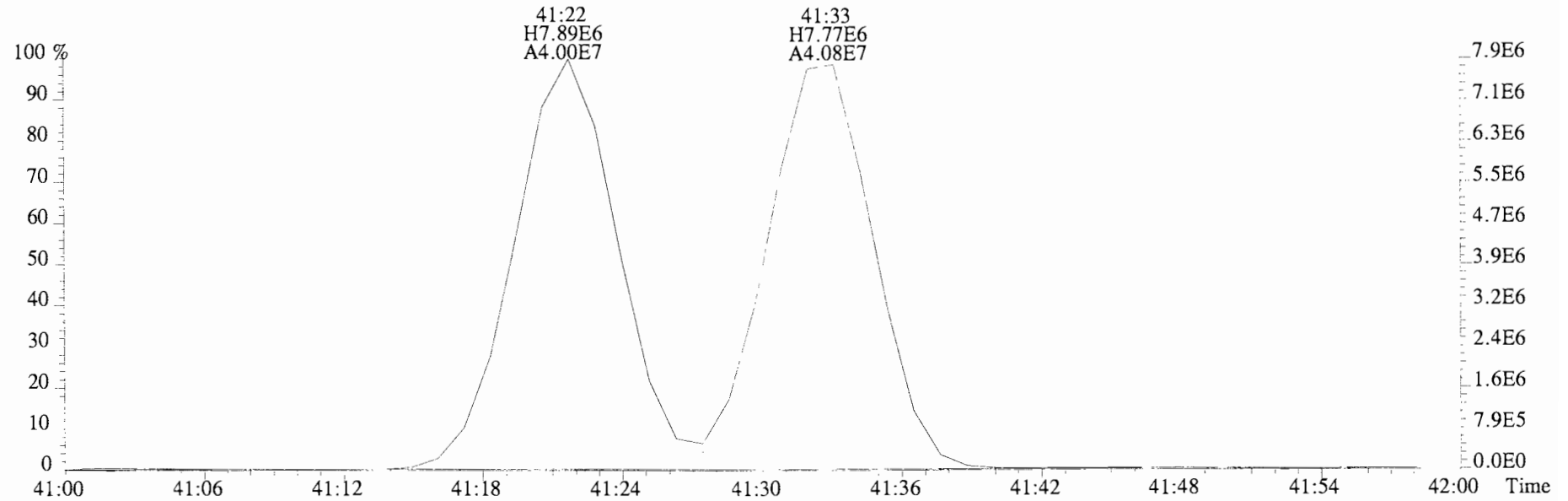
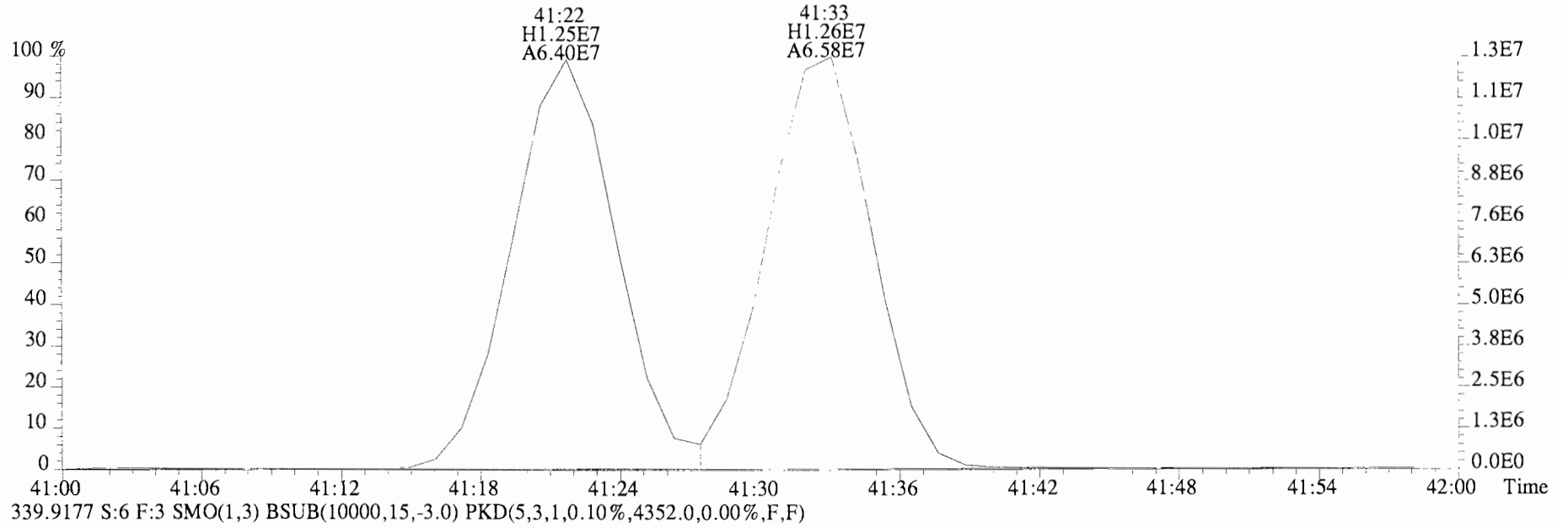
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5968.0,0.00%,F,F)



339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4352.0,0.00%,F,F)

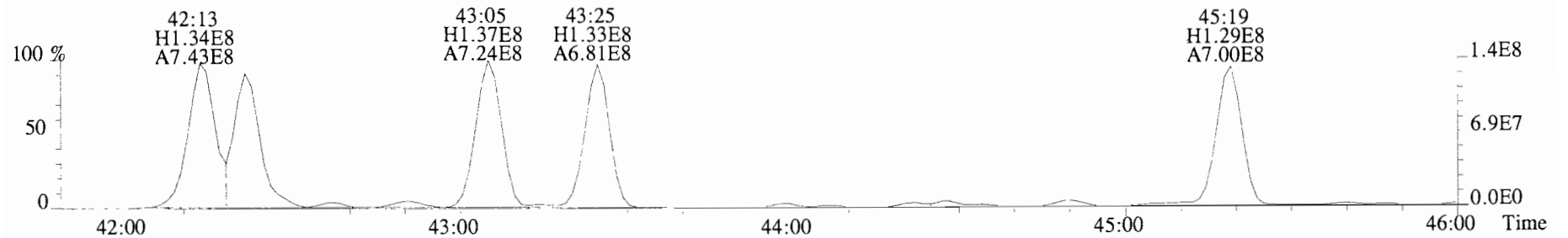


File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,5968.0,0.00%,F,F)

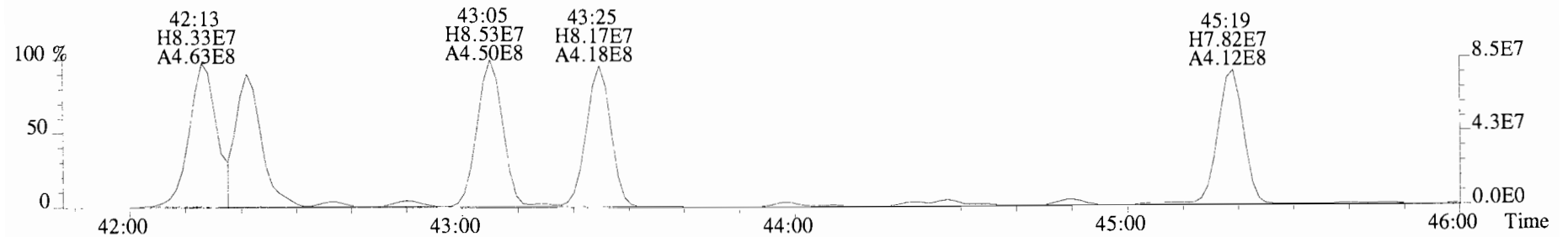




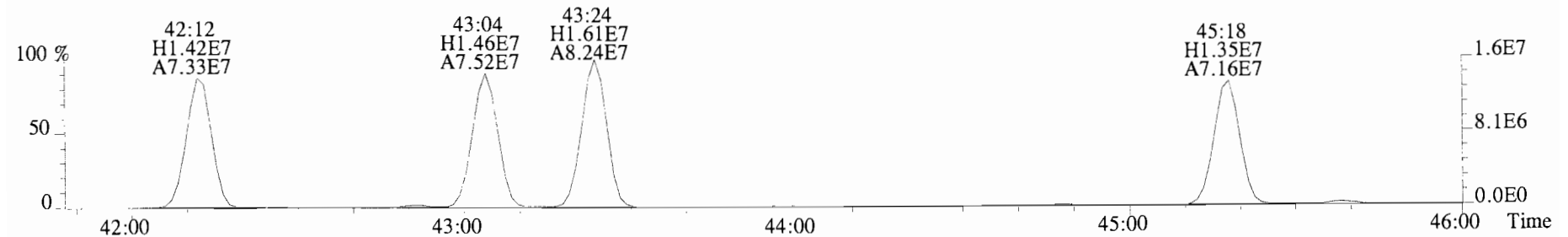
File:140620E1 #1-546 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,130392.0,0.00%,F,F)



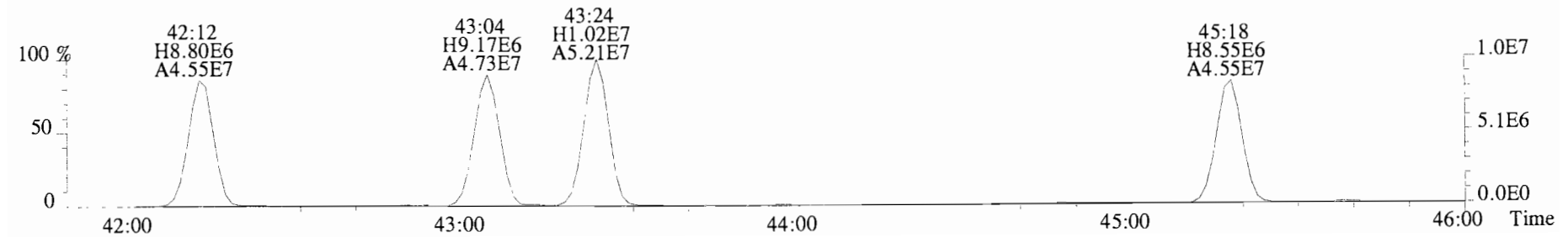
327.8775 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,94176.0,0.00%,F,F)



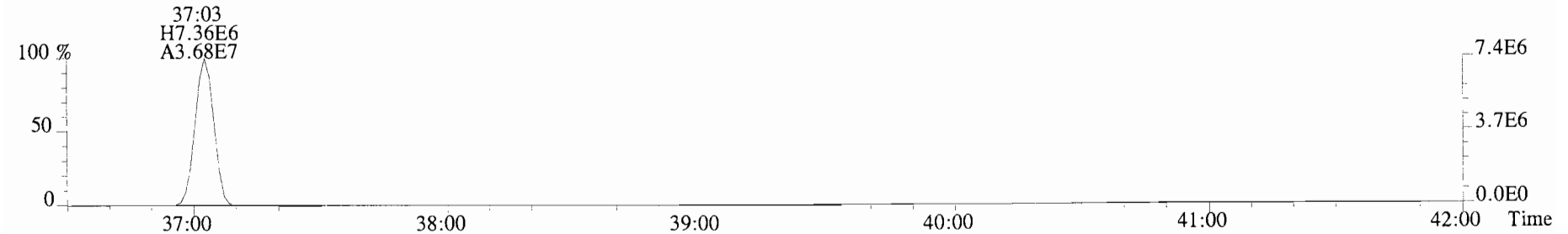
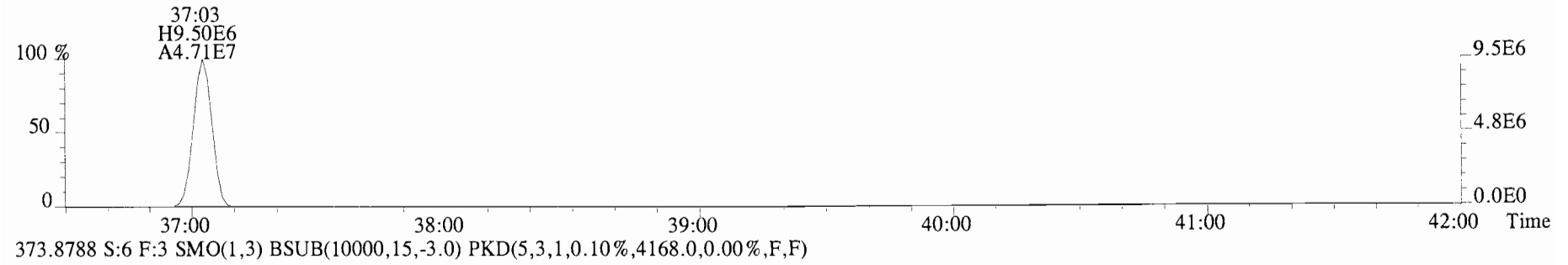
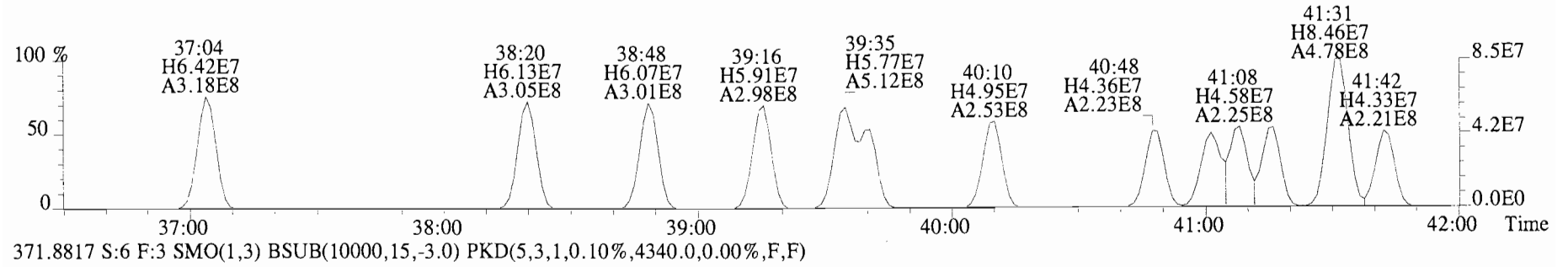
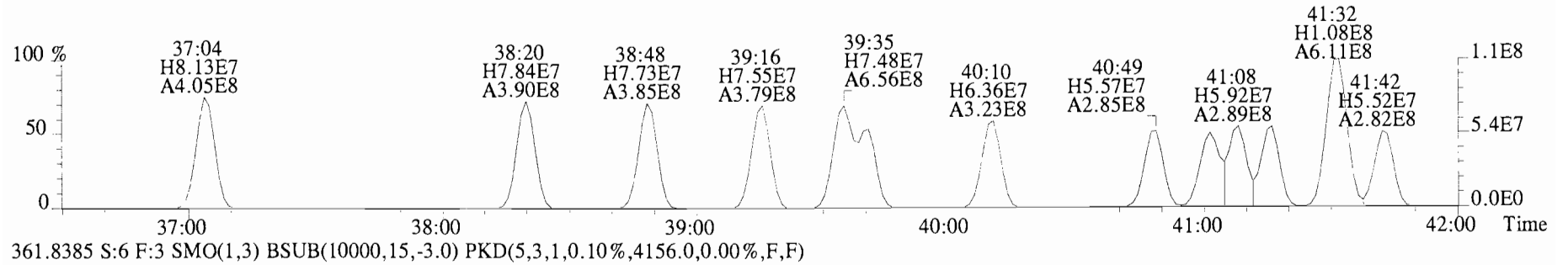
337.9207 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,9776.0,0.00%,F,F)



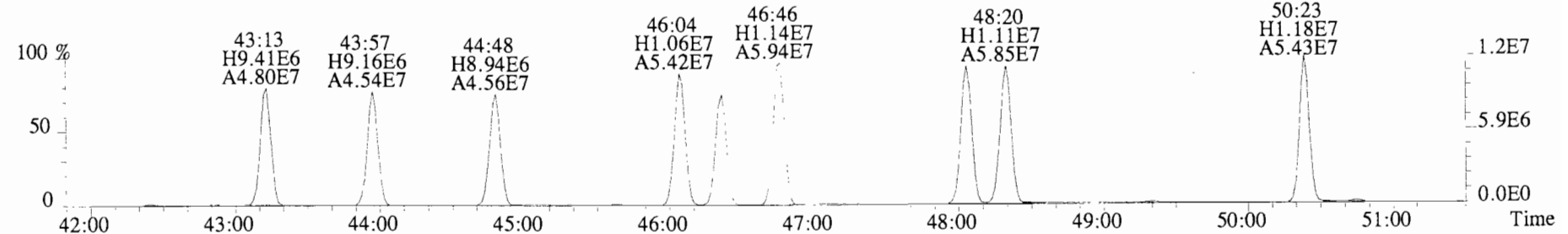
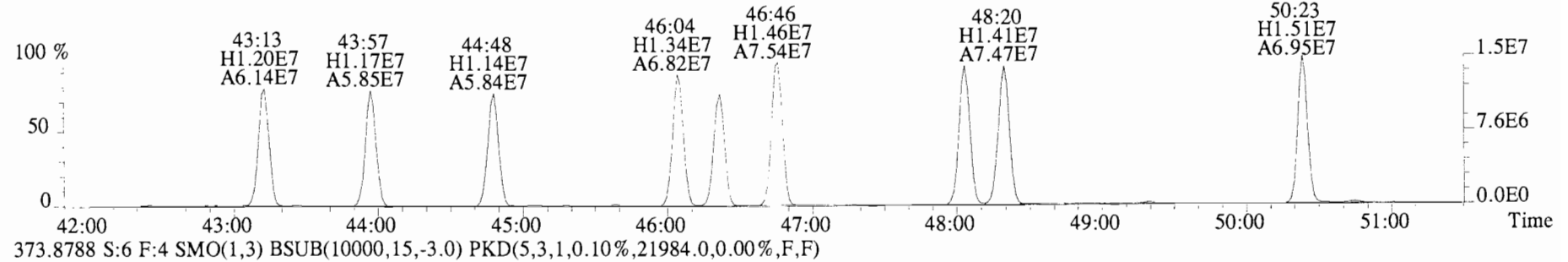
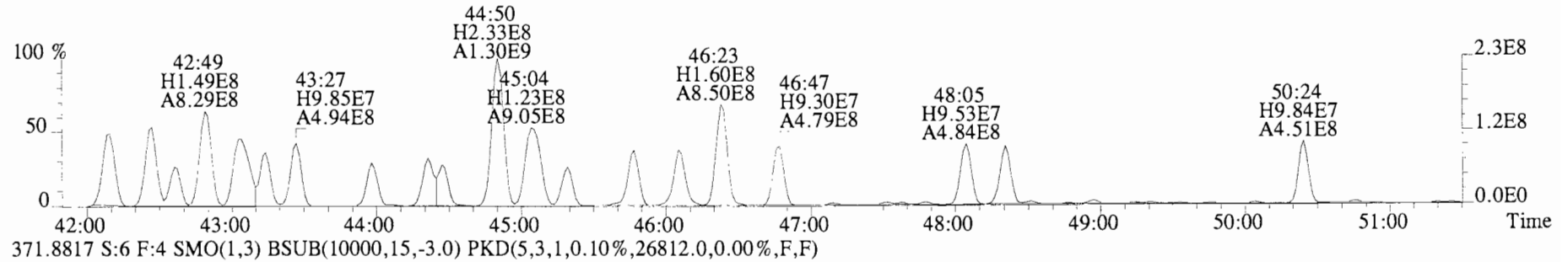
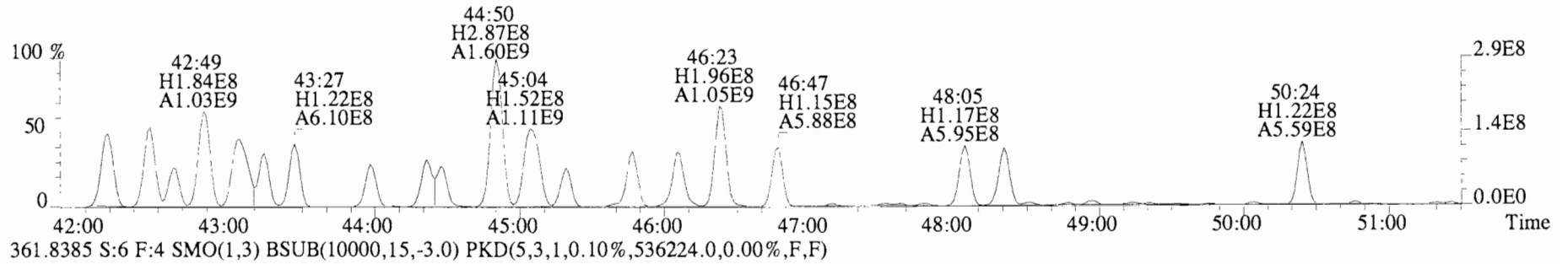
339.9177 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,10816.0,0.00%,F,F)



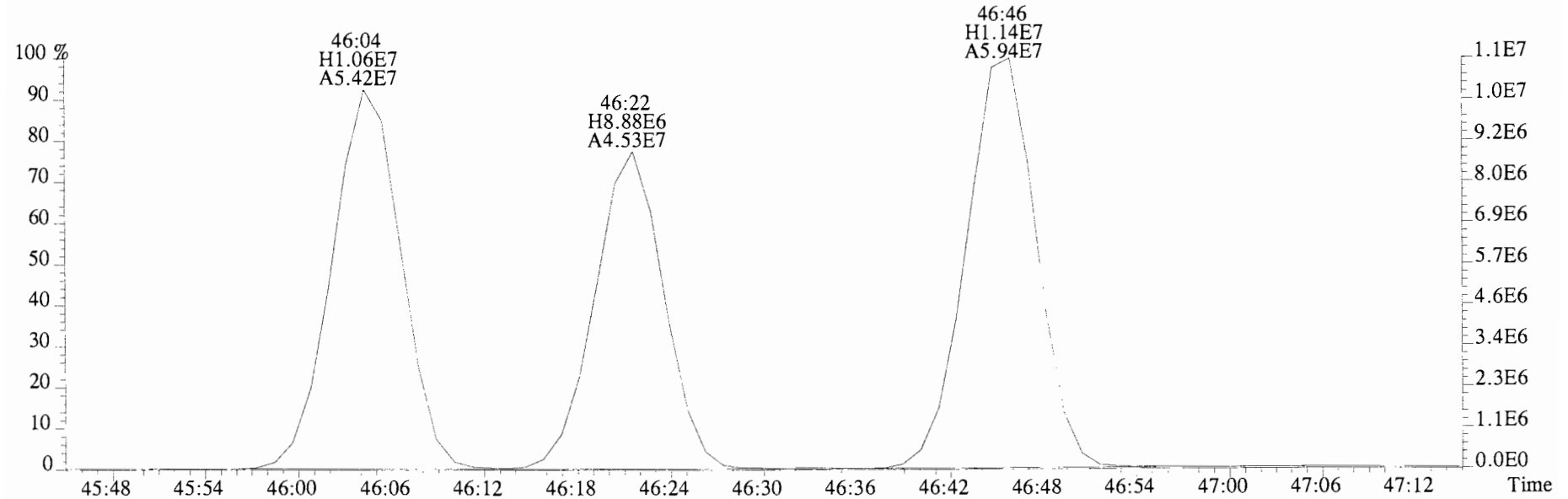
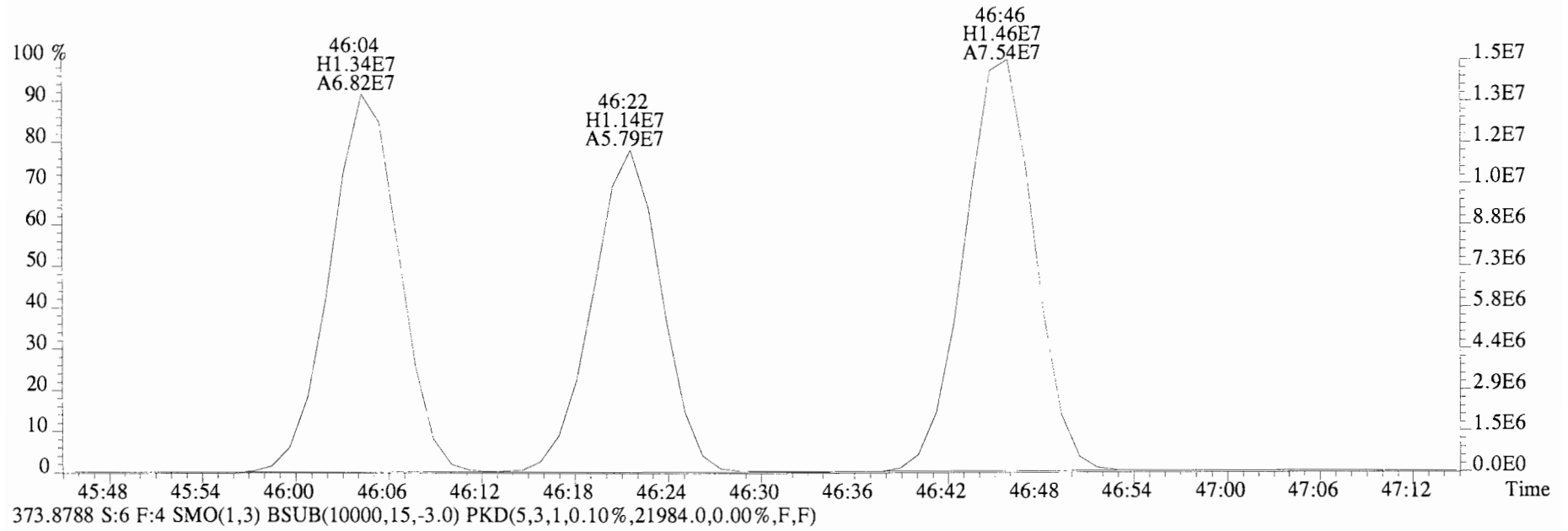
File:140620E1 #1-767 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,4264.0,0.00%,F,F)



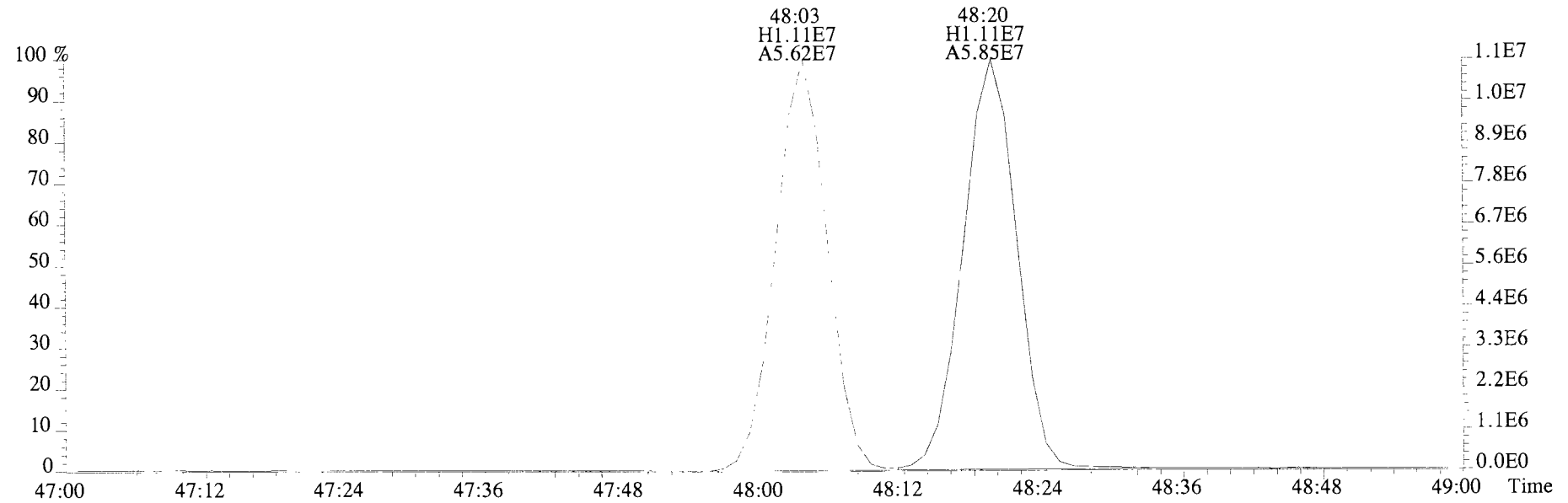
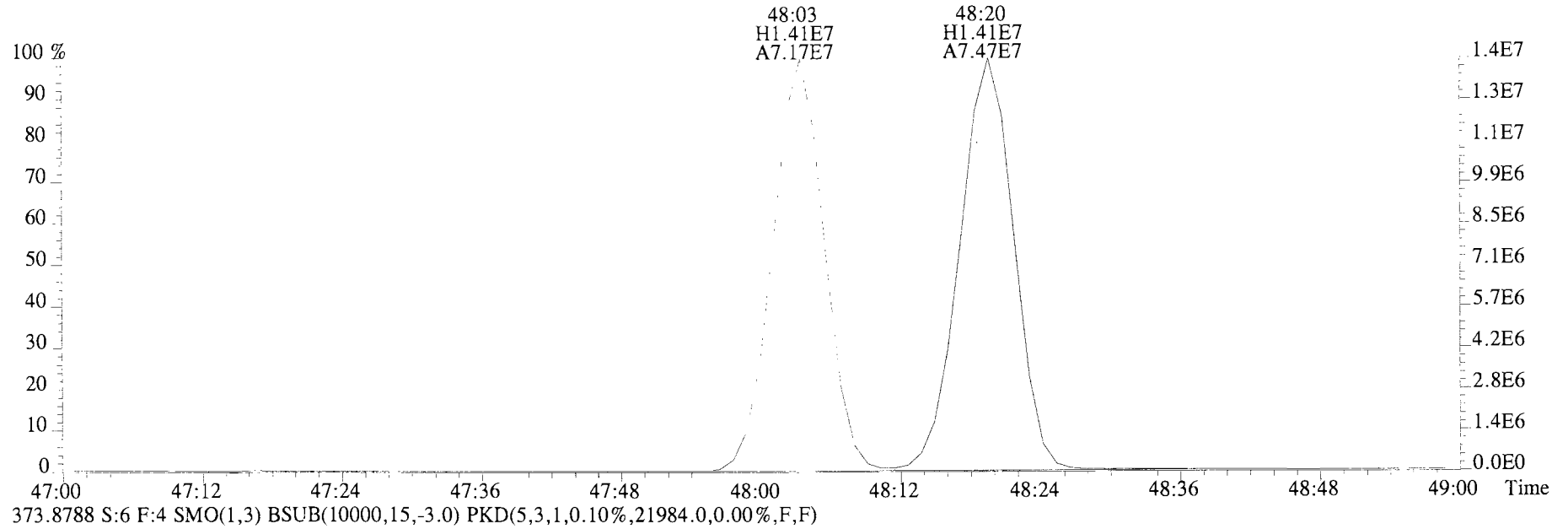
File:140620E1 #1-546 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,805404.0,0.00%,F,F)



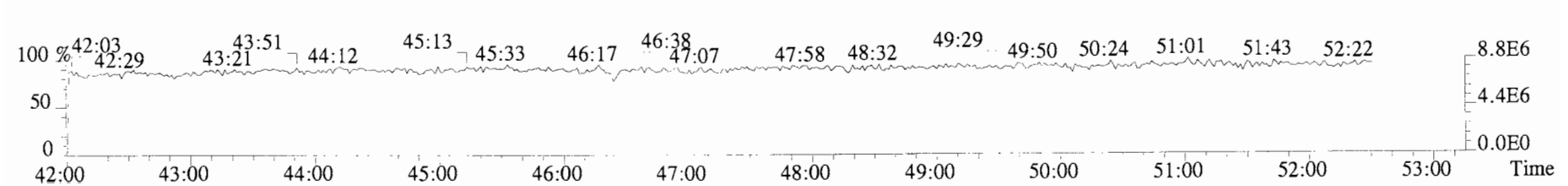
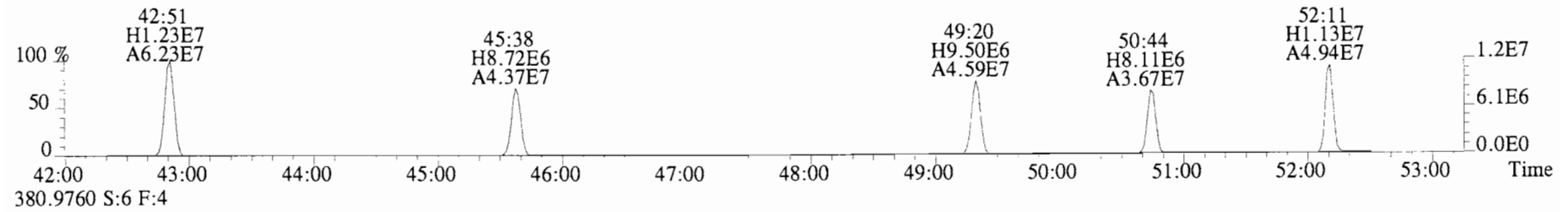
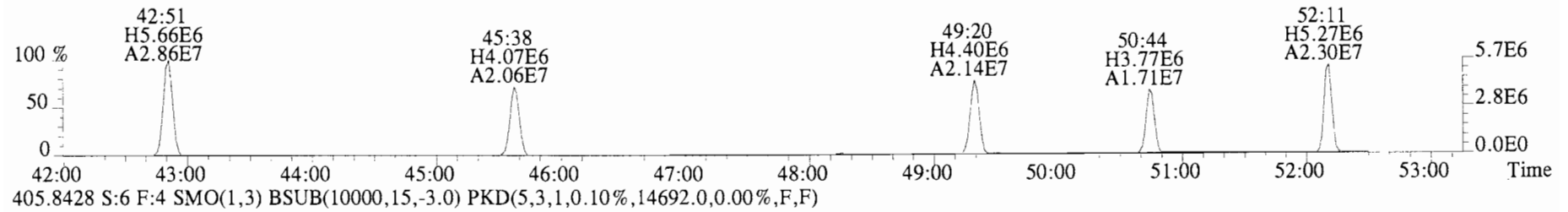
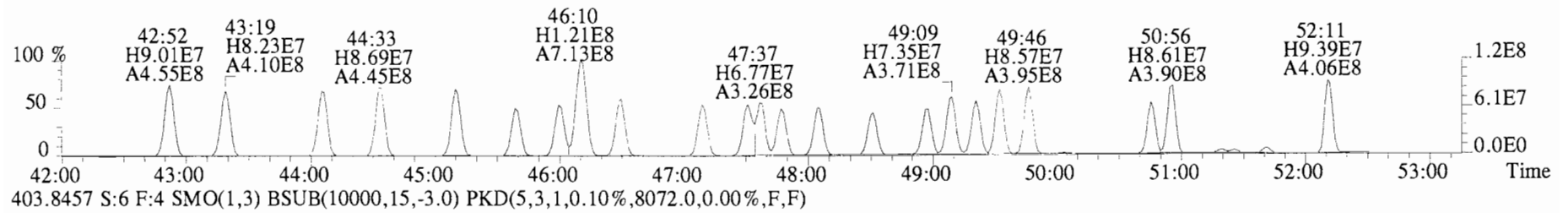
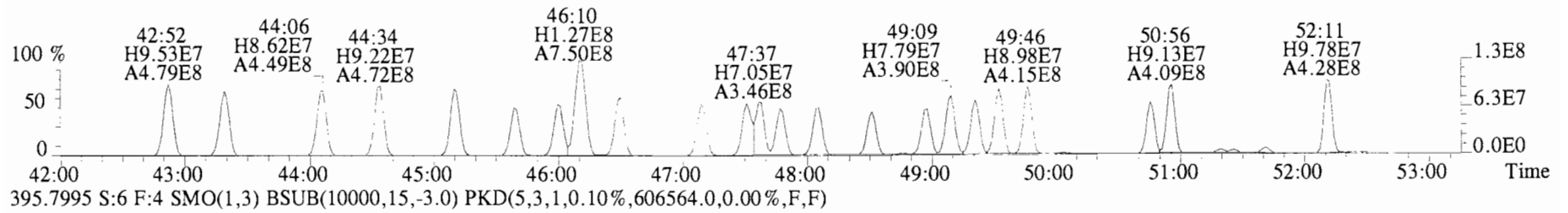
File:140620E1 #1-546 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,26812.0,0.00%,F,F)



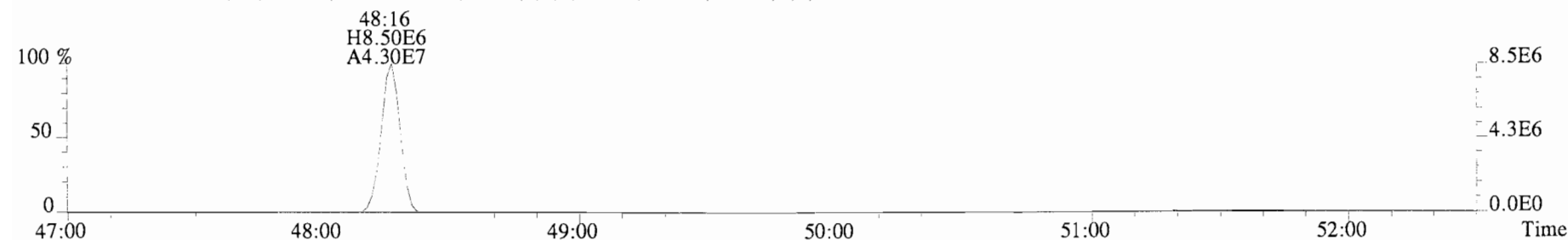
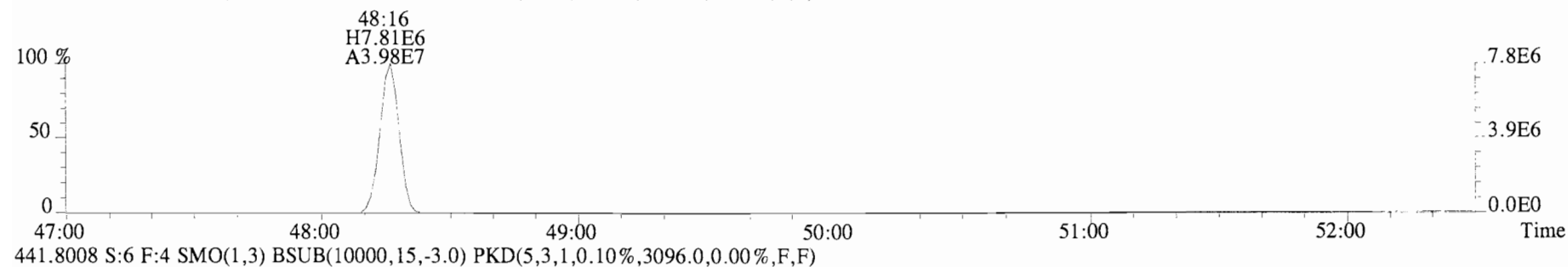
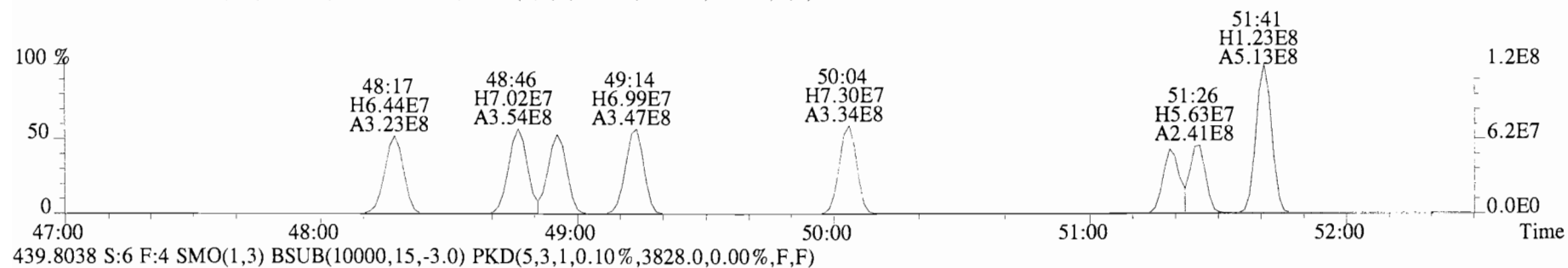
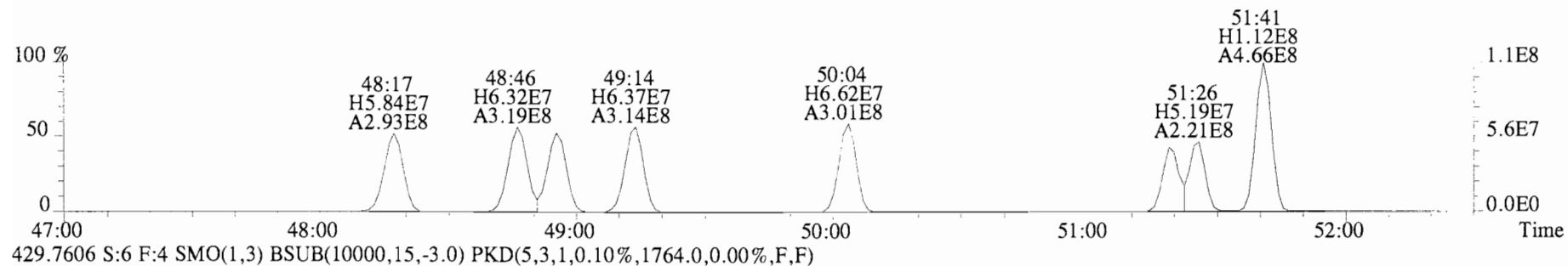
File:140620E1 #1-546 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,26812.0,0.00%,F,F)



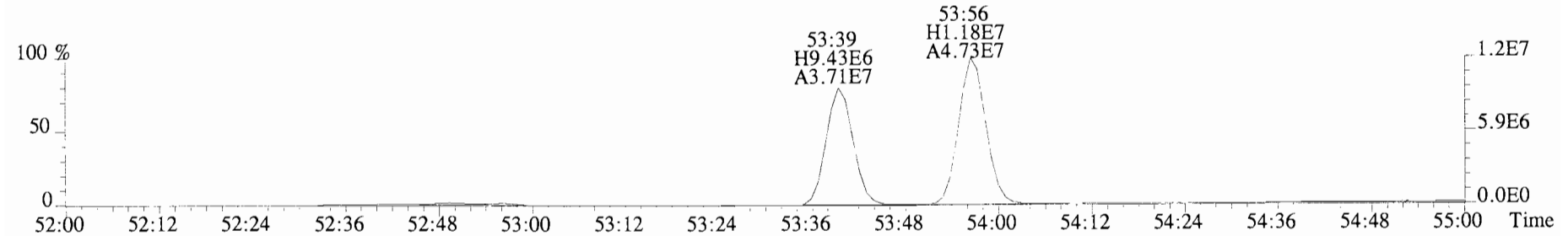
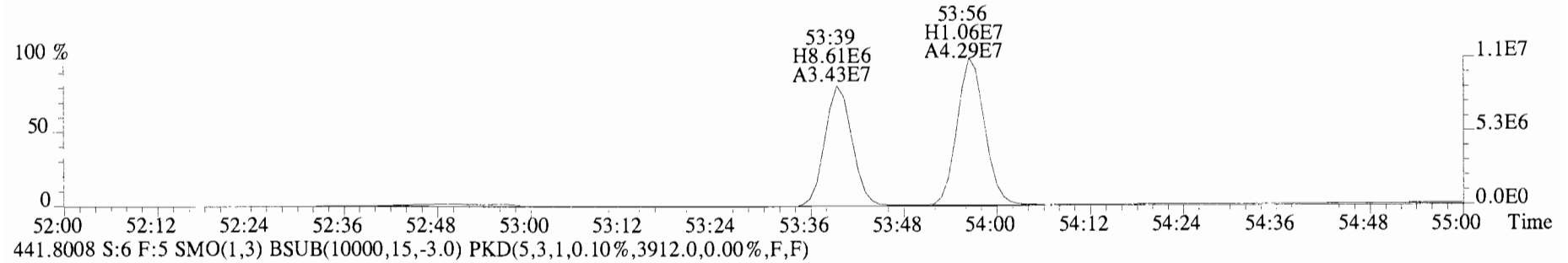
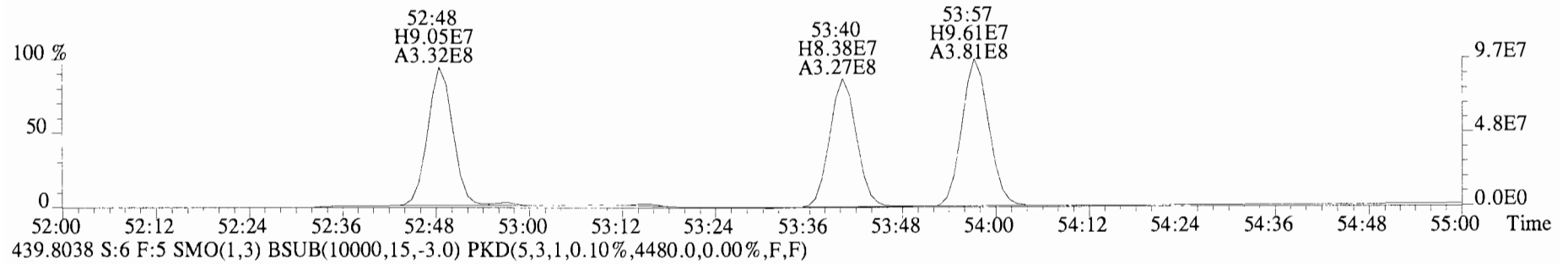
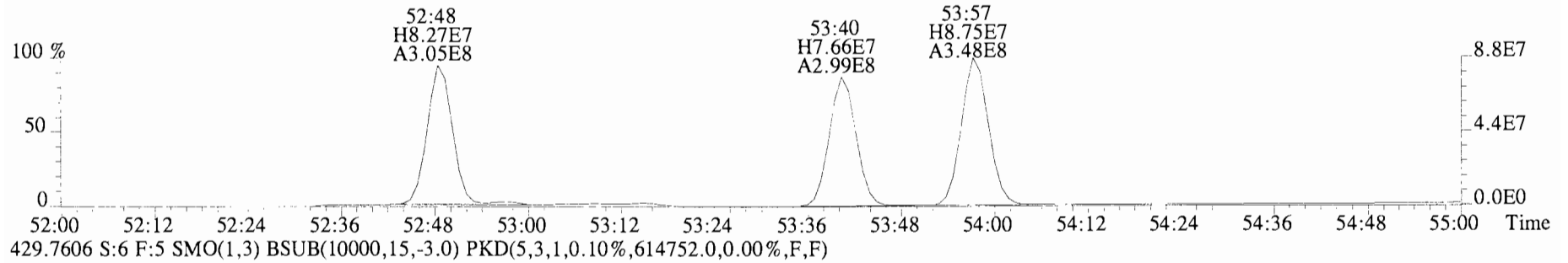
File:140620E1 #1-546 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,615916.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1896.0,0.00%,F,F)

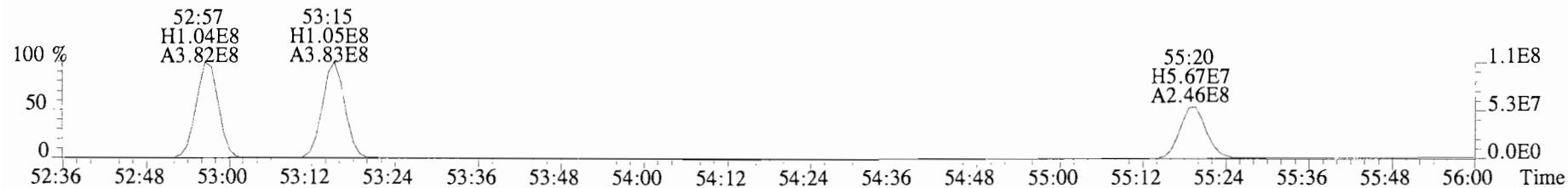


File:140620E1 #1-435 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,600756.0,0.00%,F,F)

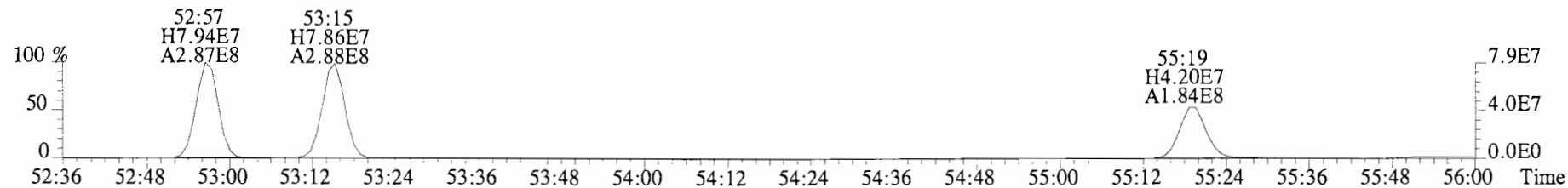




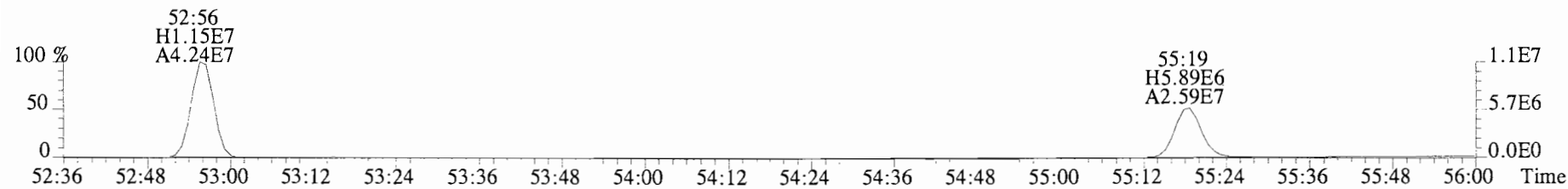
File:140620E1 #1-435 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
 463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,189052.0,0.00%,F,F)



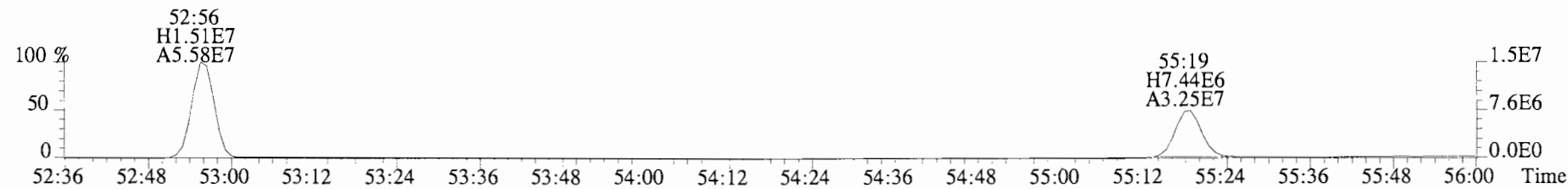
465.7186 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,139940.0,0.00%,F,F)



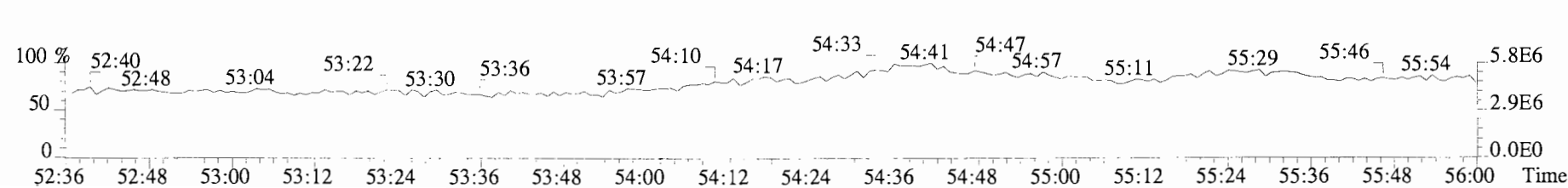
473.7648 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,26528.0,0.00%,F,F)



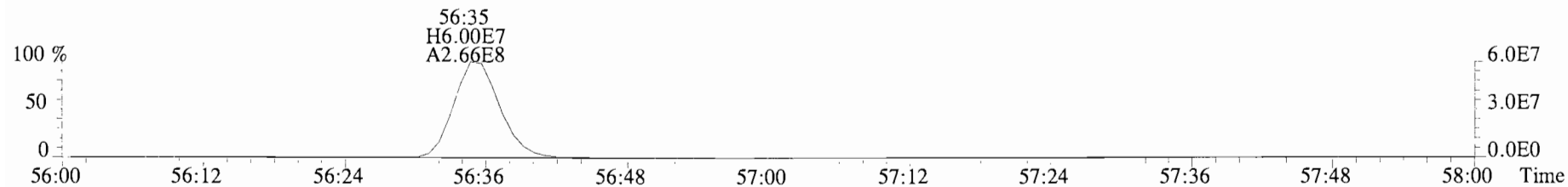
475.7619 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,30496.0,0.00%,F,F)



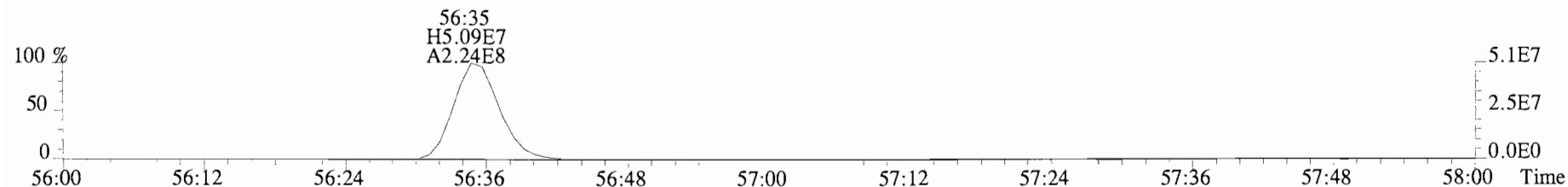
492.9697 S:6 F:5



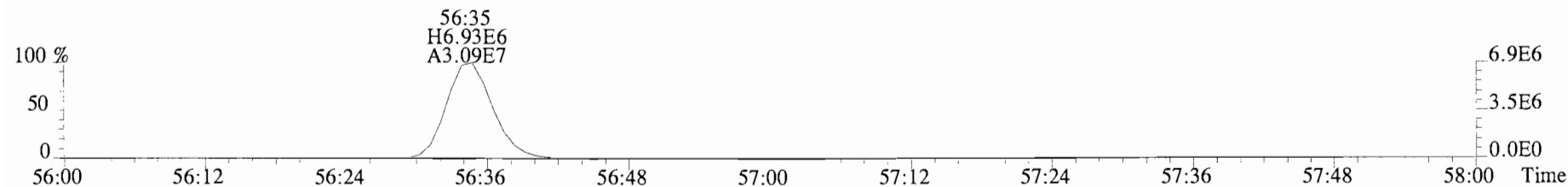
File:140620E1 #1-435 Acq:20-JUN-2014 14:51:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-6 PCB CS5 13H1207 Exp:PCB\_ZB1  
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1192.0,0.00%,F,F)



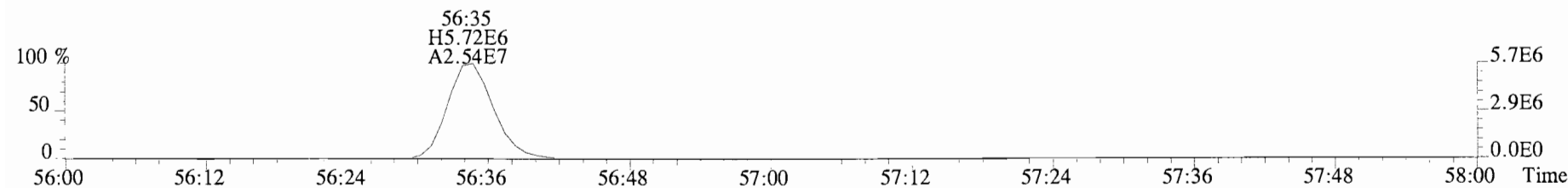
499.6797 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1240.0,0.00%,F,F)



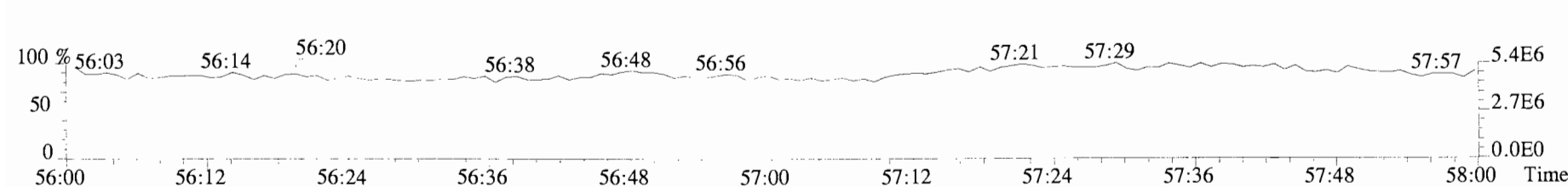
509.7229 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1268.0,0.00%,F,F)

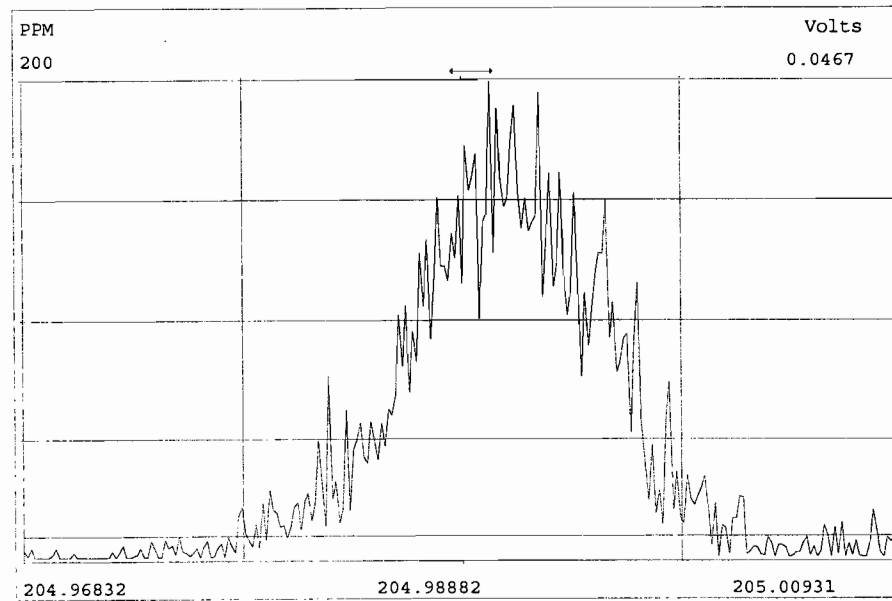
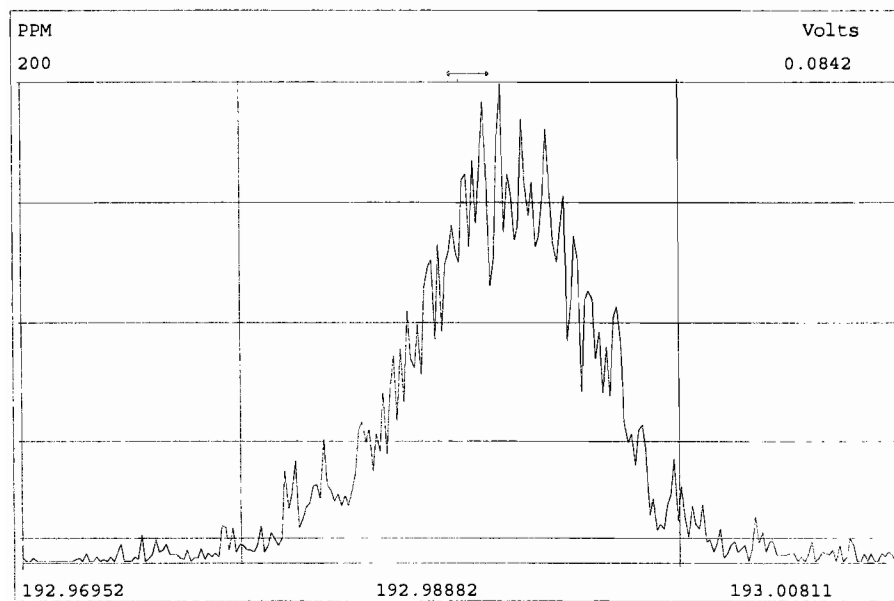
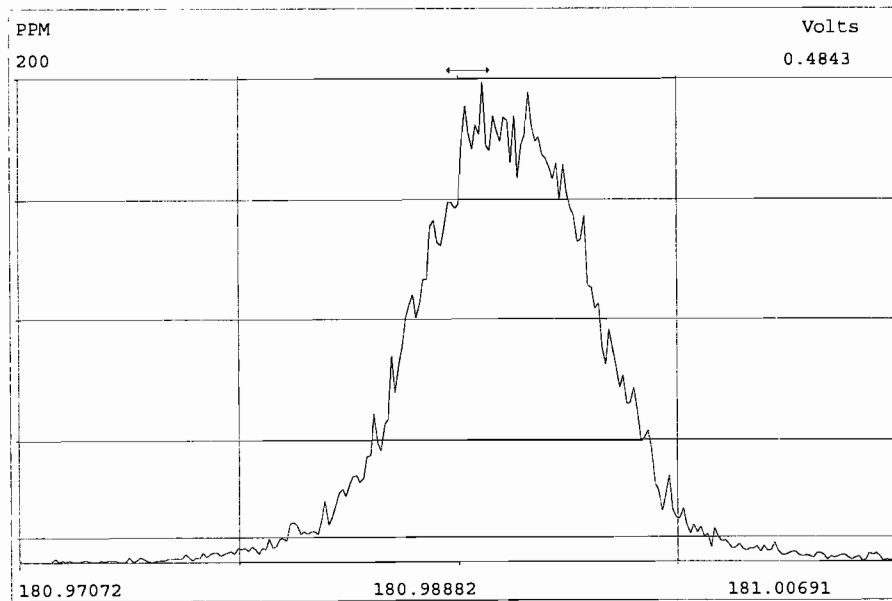
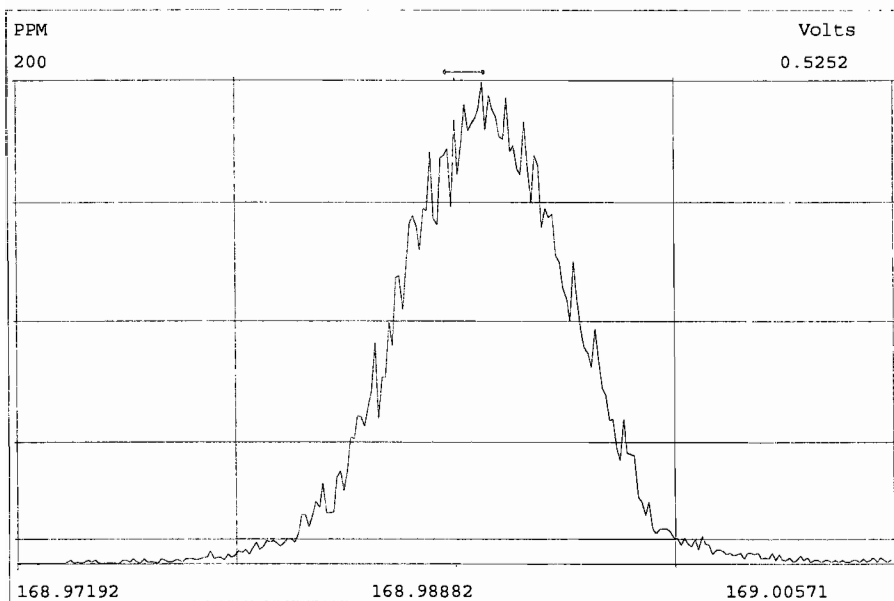


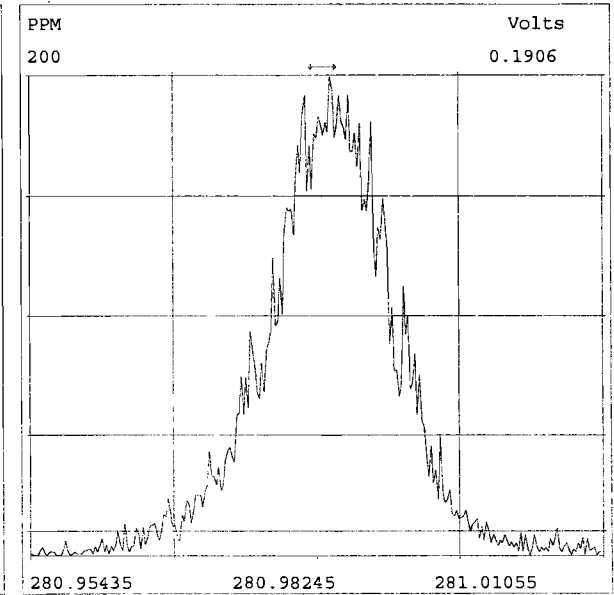
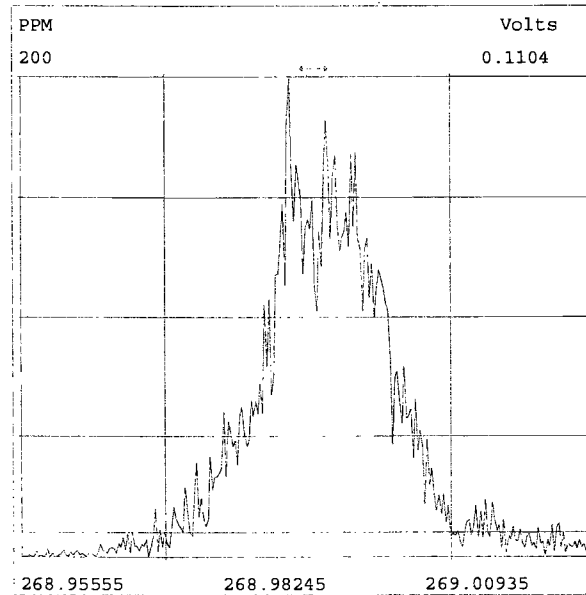
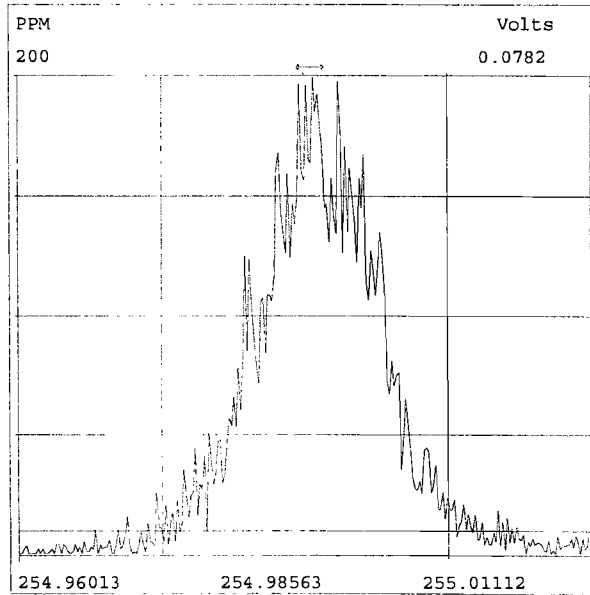
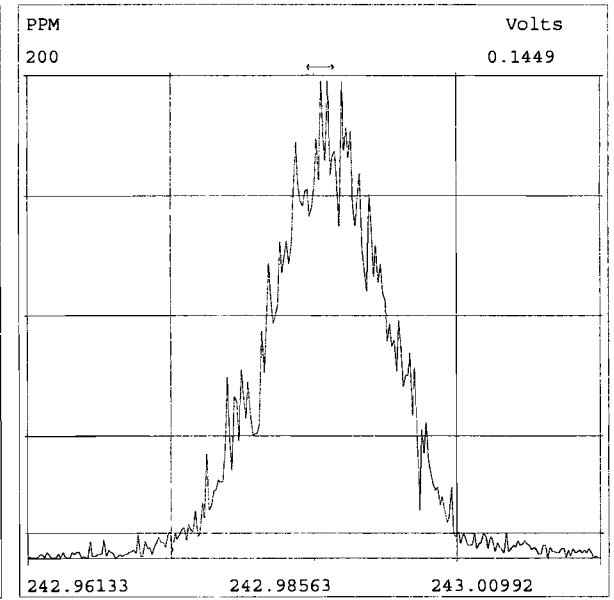
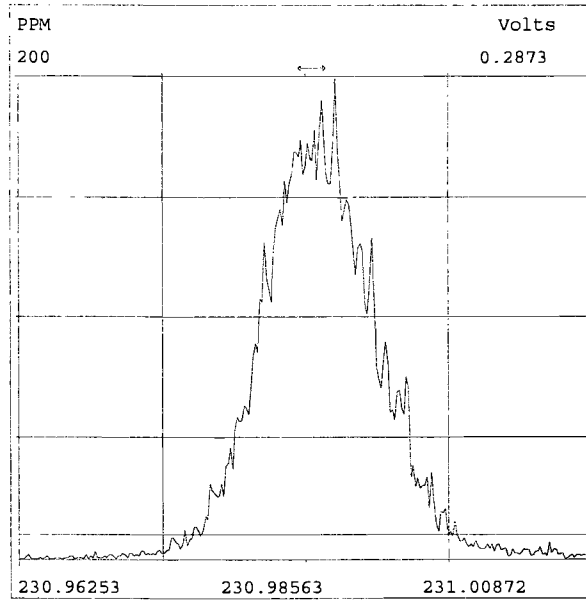
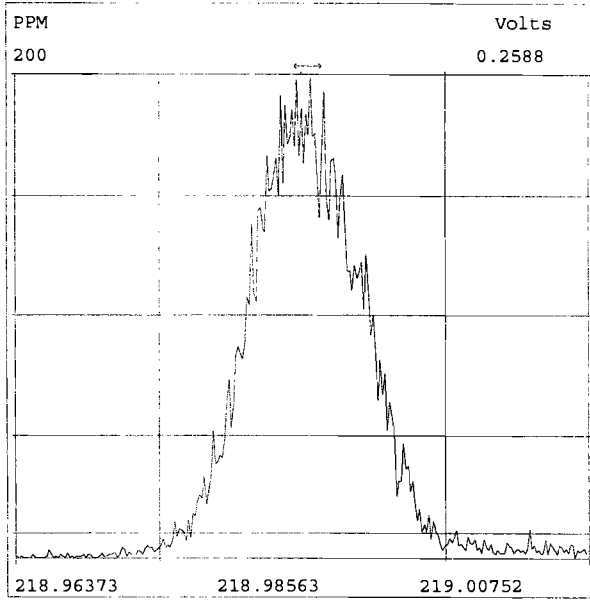
511.7199 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,3,1,0.10%,1708.0,0.00%,F,F)

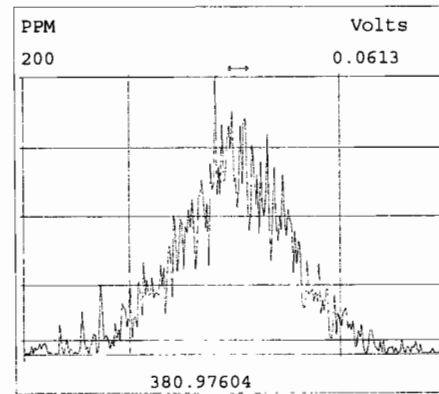
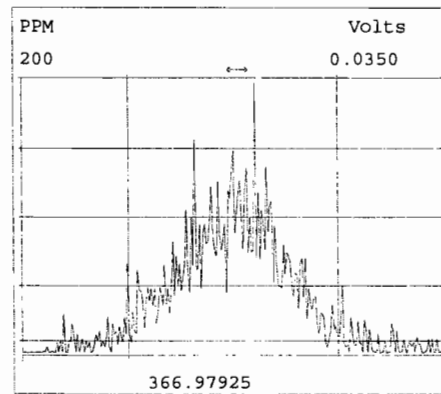
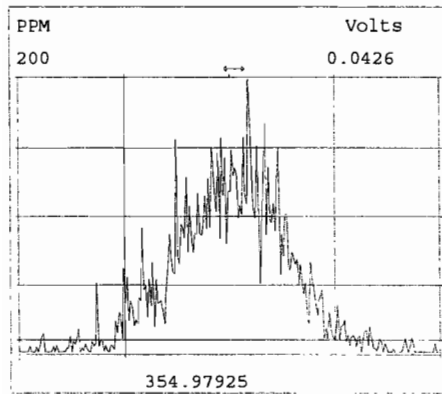
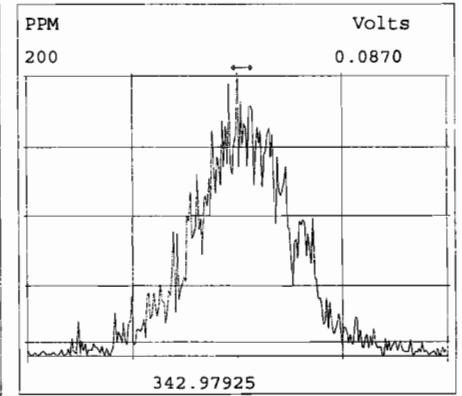
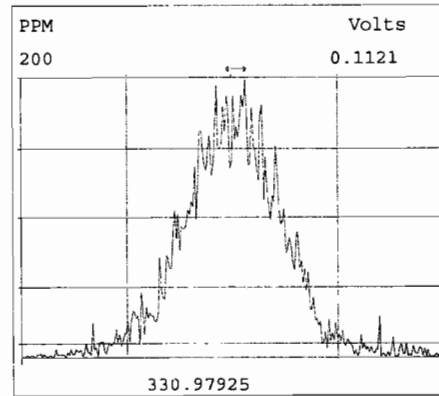
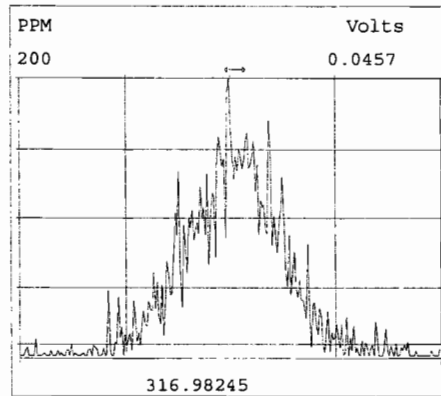
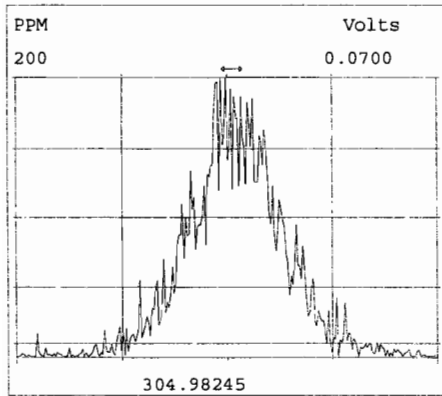
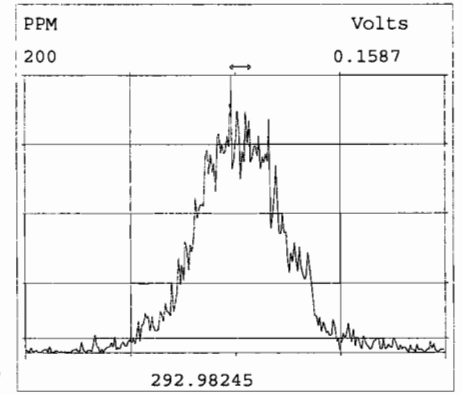
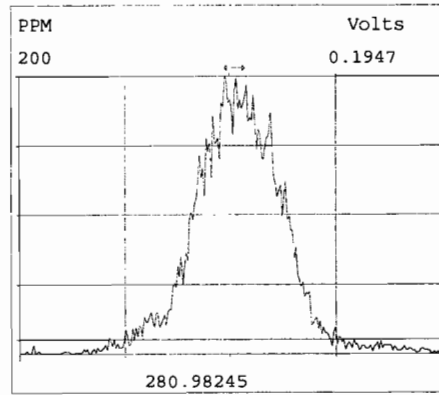
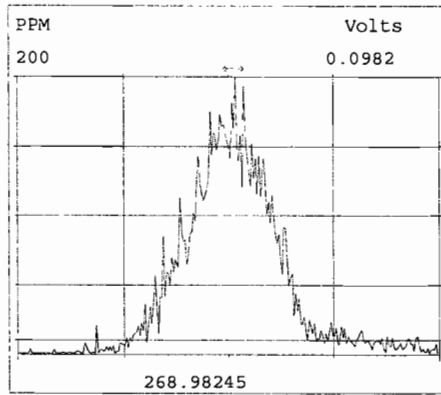
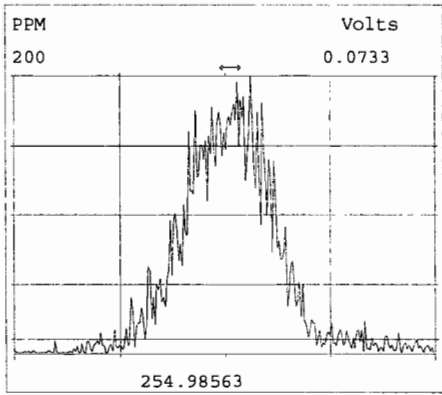


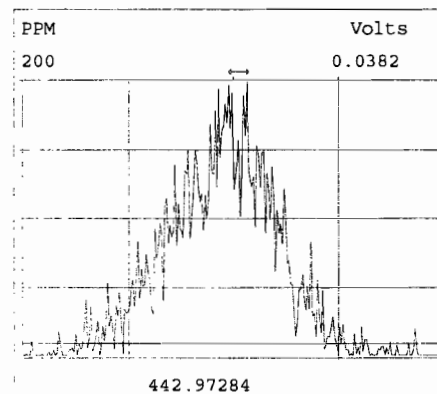
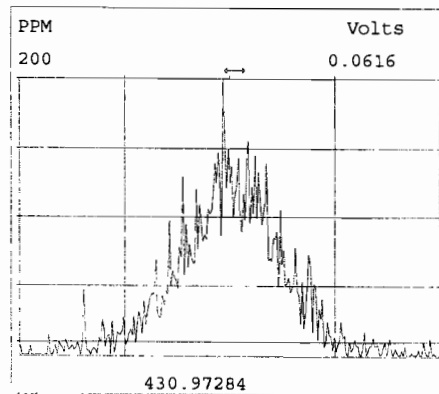
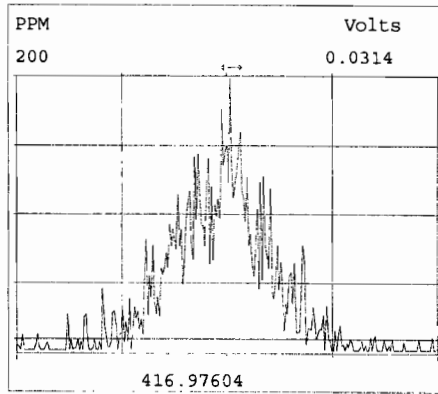
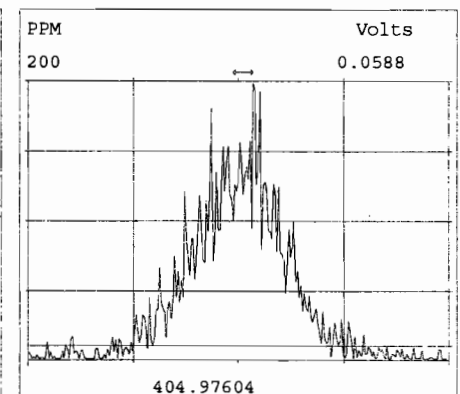
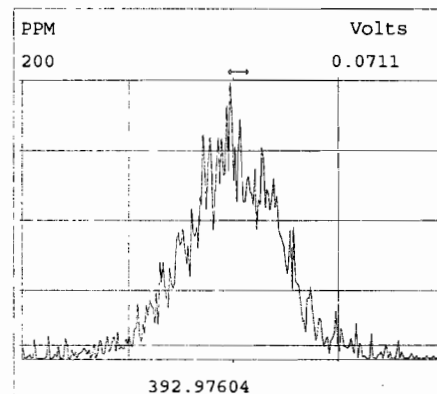
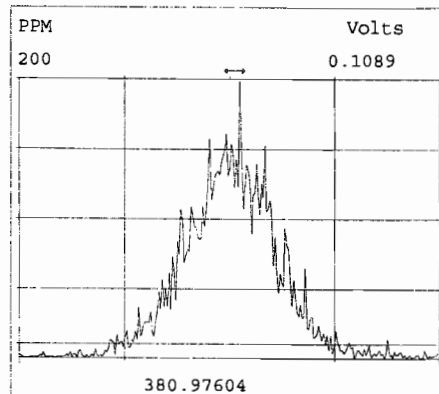
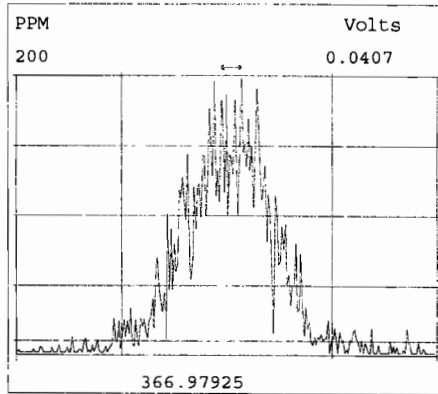
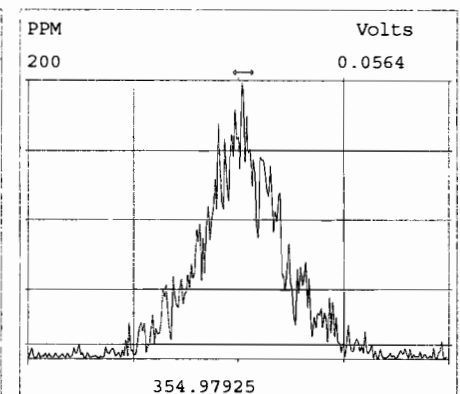
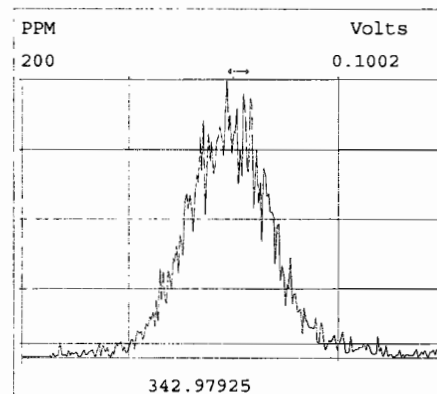
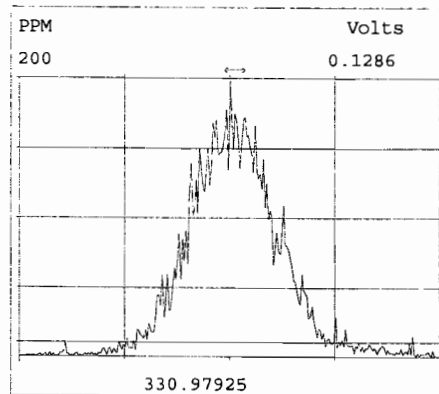
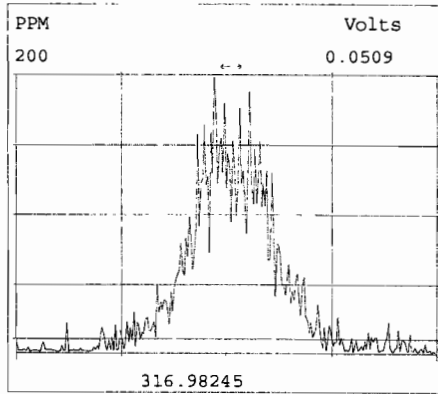
492.9697 S:6 F:5

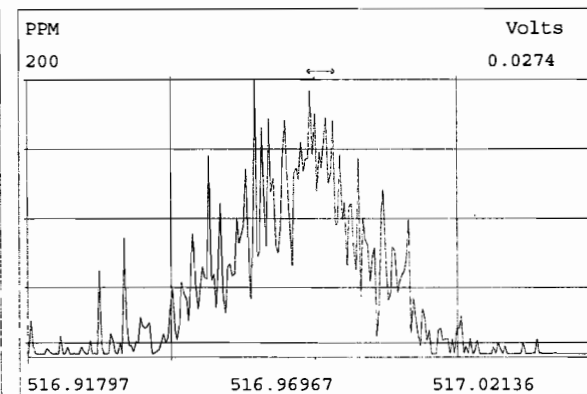
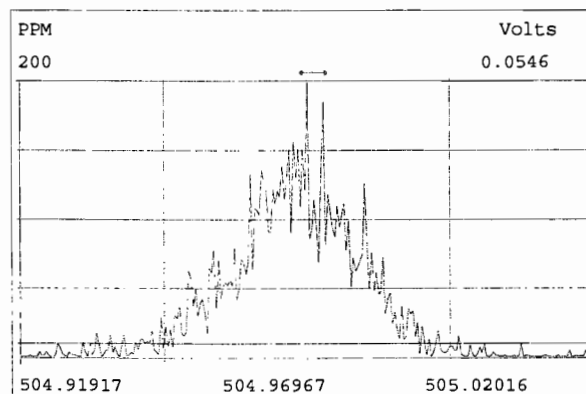
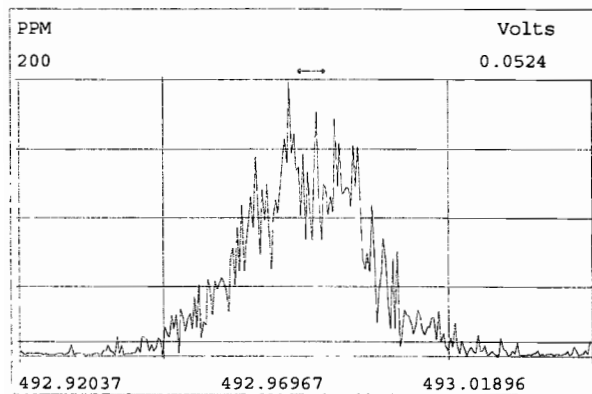
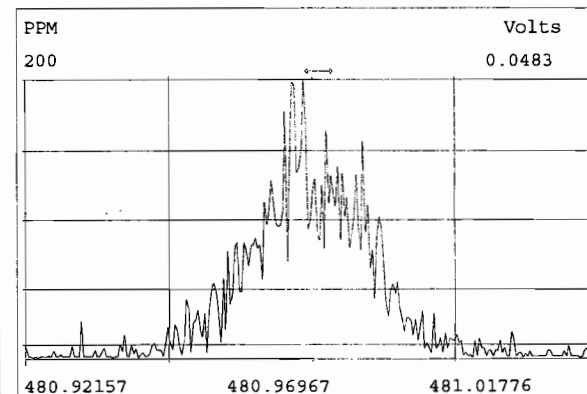
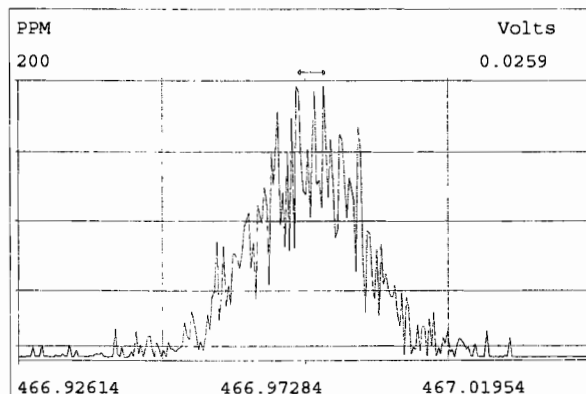
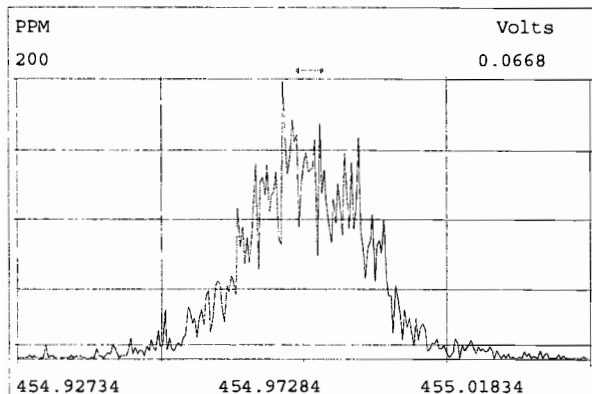
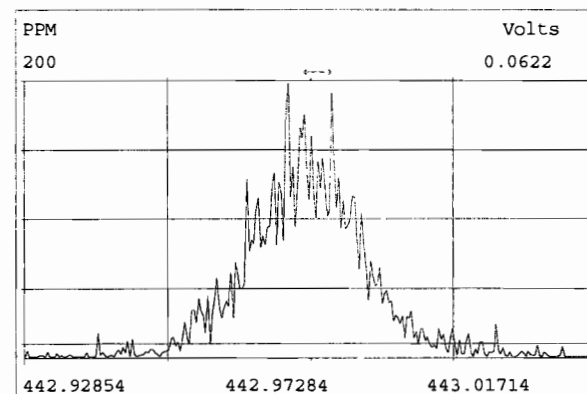
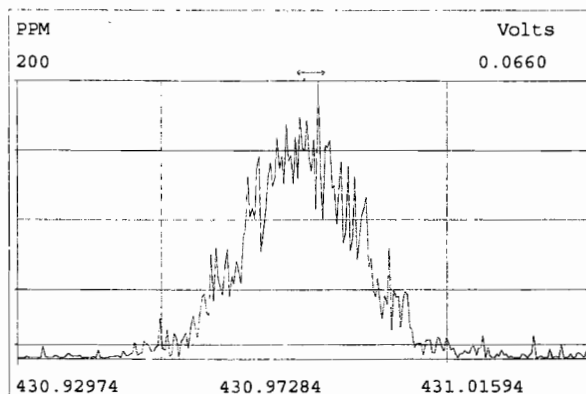
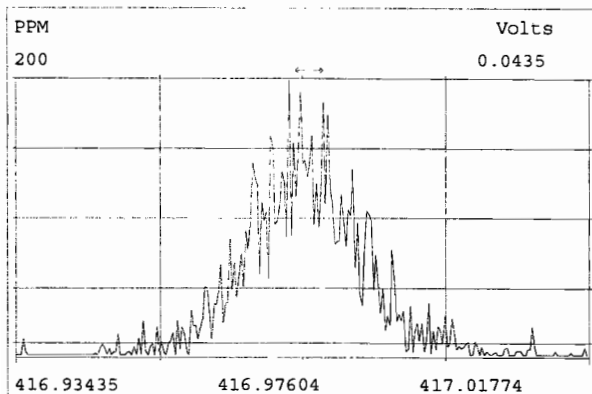












Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.41e+08	2.93 y	1.25	16:16	1.001	0.997-1.007		85.8505	PCB-52/69	4.78e+07	0.77 y	1.28	31:32	1.001	0.996-1.006		40.7210
PCB-2	*	* n	1.18	NotFnd	*	0.984-0.994		*	PCB-73	*	* n	1.37	NotFnd	*	1.000-1.010		*
PCB-3	1.52e+08	2.95 y	1.22	18:51	1.001	0.996-1.006		86.9214	PCB-43/49	4.40e+07	0.77 y	1.11	31:50	1.010	1.005-1.015		43.0917
PCB-4/10	2.26e+08	1.63 y	1.55	20:12	1.002	0.998-1.008		168.315	PCB-47	*	* n	1.13	NotFnd	*	0.995-1.005		*
PCB 7/9	1.41e+08	1.63 y	1.27	21:57	0.868	0.865-0.873		84.5949	PCB-48/75	*	* n	1.30	NotFnd	*	0.999-1.009		*
PCB-6	*	* n	1.26	NotFnd	*	0.889-0.898		*	PCB-65	*	* n	1.33	NotFnd	*	1.007-1.017		*
PCB-5/8	1.46e+08	1.64 y	1.23	23:00	0.910	0.905-0.915		90.0973	PCB-62	*	* n	1.29	NotFnd	*	1.010-1.020		*
PCB-14	*	* n	1.23	NotFnd	*	0.948-0.958		*	PCB-44	3.87e+07	0.75 y	0.94	32:50	1.025	1.020-1.030		43.2989
PCB-11	1.42e+08	1.64 y	1.16	25:18	1.001	0.996-1.006		83.1156	PCB-42/59	*	* n	1.22	NotFnd	*	1.027-1.037		*
PCB-12/13	1.38e+08	1.65 y	1.10	25:44	1.018	1.011-1.021		84.7928	PCB-41/64/71/72	*	* n	1.31	NotFnd	*	1.046-1.056		*
PCB-15	1.50e+08	1.66 y	1.21	26:00	1.028	1.024-1.034		83.9217	PCB-68	*	* n	1.49	NotFnd	*	1.053-1.063		*
PCB-19	4.52e+07	1.06 y	1.30	24:18	1.001	0.996-1.006		40.8150	PCB-40	*	* n	0.82	NotFnd	*	1.060-1.070		*
PCB-30	*	* n	1.83	NotFnd	*	1.033-1.043		*	PCB-57	5.39e+07	0.77 y	1.11	34:28	0.970	0.966-0.976		40.0004
PCB-18	4.62e+07	1.07 y	0.86	25:55	0.954	0.949-0.959		42.5769	PCB-67	*	* n	1.07	NotFnd	*	0.974-0.984		*
PCB-17	*	* n	0.90	NotFnd	*	0.956-0.966		*	PCB-58	*	* n	1.10	NotFnd	*	0.977-0.987		*
PCB-24/27	*	* n	1.18	NotFnd	*	0.977-0.987		*	PCB-63	*	* n	1.12	NotFnd	*	0.982-0.992		*
PCB-16/32	*	* n	1.03	NotFnd	*	0.995-1.005		*	PCB-74	5.76e+07	0.77 y	1.20	35:20	0.994	0.990-1.000		39.5537
PCB-34	*	* n	1.26	NotFnd	*	0.956-0.966		*	PCB-61/70	5.84e+07	0.78 y	1.08	35:33	1.001	0.994-1.004		44.7167
PCB-23	*	* n	1.31	NotFnd	*	0.958-0.968		*	PCB-76/66	5.86e+07	0.78 y	1.14	35:45	1.006	1.001-1.011		42.6264
PCB-29	*	* n	1.33	NotFnd	*	0.967-0.977		*	PCB-80	*	* n	1.28	NotFnd	*	0.995-1.005		*
PCB-26	*	* n	1.29	NotFnd	*	0.975-0.985		*	PCB-55	*	* n	1.11	NotFnd	*	1.004-1.014		*
PCB-25	*	* n	1.34	NotFnd	*	0.980-0.990		*	PCB-56/60	*	* n	1.09	NotFnd	*	1.018-1.028		*
PCB-31	7.22e+07	1.09 y	1.42	29:02	0.997	0.992-1.002		40.5382	PCB-79	5.86e+07	0.78 y	1.12	37:50	1.053	1.048-1.058		42.2923
PCB-28	7.06e+07	1.10 y	1.38	29:08	1.000	0.996-1.006		40.8363	PCB-78	5.12e+07	0.77 y	1.24	38:32	0.987	0.982-0.992		38.3421
PCB-20/21/33	6.61e+07	1.08 y	1.31	29:46	1.022	1.017-1.027		40.1300	PCB-81	6.02e+07	0.78 y	1.38	39:04	1.000	0.995-1.005		40.3827
PCB-22	*	* n	1.32	NotFnd	*	1.032-1.042		*	PCB-77	5.88e+07	0.78 y	1.21	39:39	1.000	0.995-1.005		42.4506
PCB-36	*	* n	1.38	NotFnd	*	0.929-0.939		*	PCB-104	4.28e+07	1.61 y	1.26	32:41	1.000	0.996-1.006		41.1610
PCB-39	*	* n	1.42	NotFnd	*	0.943-0.953		*	PCB-96	*	* n	1.09	NotFnd	*	1.034-1.044		*
PCB-38	6.26e+07	1.10 y	1.35	32:03	0.972	0.966-0.976		39.2081	PCB-103	*	* n	0.93	NotFnd	*	1.050-1.060		*
PCB-35	6.52e+07	1.08 y	1.38	32:33	0.987	0.982-0.992		40.1530	PCB-100	*	* n	1.00	NotFnd	*	1.061-1.071		*
PCB-37	6.88e+07	1.09 y	1.39	32:59	1.000	0.996-1.006		41.9257	PCB-94	*	* n	1.11	NotFnd	*	0.981-0.991		*
PCB-54	5.69e+07	0.78 y	1.20	28:02	1.001	0.995-1.005		42.8320	PCB-95/98/102	3.11e+07	1.60 y	1.21	35:51	1.001	0.994-1.004		42.4715
PCB-50	*	* n	0.97	NotFnd	*	1.037-1.047		*	PCB-93	*	* n	1.13	NotFnd	*	0.998-1.008		*
PCB-53	*	* n	1.19	NotFnd	*	0.941-0.951		*	PCB-88/91	*	* n	1.02	NotFnd	*	1.006-1.016		*
PCB-51	*	* n	1.15	NotFnd	*	0.952-0.962		*	PCB-121	*	* n	1.90	NotFnd	*	1.009-1.019		*
PCB-45	*	* n	0.97	NotFnd	*	0.966-0.976		*	PCB-84/92	*	* n	1.05	NotFnd	*	0.985-0.995		*
PCB-46	*	* n	0.95	NotFnd	*	0.981-0.991		*	PCB-89	*	* n	1.02	NotFnd	*	0.990-1.000		*

RL: MONG, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Integrations

by

Analyst: *DMS*

Date: *6/23/14*

Reviewed

by

Analyst: *[Signature]*

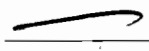
Date: *6/23/14*



Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	3.30e+07	1.63	y	1.19	37:31	1.000	0.995-1.005	43.2875	PCB-133/142	*	n	0.95	NotFnd	*	0.977-0.987	*	
PCB-113	*	n	1.35	NotFnd	*	1.002-1.012	*	*	PCB-131	*	n	0.91	NotFnd	*	0.981-0.991	*	
PCB-99	3.39e+07	1.63	y	1.29	37:52	1.010	1.004-1.014	41.0156	PCB-146/165	*	n	1.16	NotFnd	*	0.986-0.996	*	
PCB-119	*	n	1.72	NotFnd	*	0.982-0.992	*	*	PCB-132/161	*	n	1.11	NotFnd	*	0.991-1.001	*	
PCB-108/112	*	n	1.29	NotFnd	*	0.986-0.996	*	*	PCB-153	4.22e+07	1.23	y	1.18	43:14	1.000	0.995-1.005	41.8272
PCB-83	*	n	1.52	NotFnd	*	0.990-1.000	*	*	PCB-168	*	n	1.37	NotFnd	*	1.000-1.010	*	
PCB-97	*	n	1.25	NotFnd	*	0.996-1.006	*	*	PCB-141	*	n	0.97	NotFnd	*	0.995-1.005	*	
PCB-86	*	n	1.02	NotFnd	*	0.999-1.009	*	*	PCB-137	*	n	1.07	NotFnd	*	1.004-1.014	*	
B-87/117/125	2.95e+07	1.59	y	1.56	39:07	1.008	1.002-1.012	33.0291	PCB-130	*	n	0.85	NotFnd	*	1.006-1.016	*	
PCB-111/115	4.04e+07	1.63	y	1.75	39:14	1.011	1.006-1.016	40.2912	PCB-138/163/164	3.83e+07	1.26	y	1.23	44:49	1.000	0.995-1.005	38.8316
PCB-85/116	*	n	1.30	NotFnd	*	1.010-1.020	*	*	PCB-158/160	*	n	1.29	NotFnd	*	1.001-1.011	*	
PCB-120	*	n	1.78	NotFnd	*	1.016-1.026	*	*	PCB-129	*	n	0.92	NotFnd	*	1.006-1.016	*	
PCB-110	4.02e+07	1.59	y	1.68	39:46	1.025	1.019-1.029	41.7986	PCB-166	*	n	1.12	NotFnd	*	0.988-0.998	*	
PCB-82	*	n	0.74	NotFnd	*	0.971-0.981	*	*	PCB-159	*	n	1.16	NotFnd	*	0.995-1.005	*	
PCB-124	*	n	1.32	NotFnd	*	0.988-0.998	*	*	PCB-128/162	4.88e+07	1.23	y	1.02	46:24	1.007	1.001-1.011	52.1636
PCB-107/109	*	n	1.22	NotFnd	*	0.991-1.001	*	*	PCB-167	5.20e+07	1.22	y	1.06	46:47	1.000	0.995-1.005	48.2844
PCB-123	4.39e+07	1.62	y	1.22	41:23	1.001	0.995-1.005	44.3039	PCB-156	4.64e+07	1.23	y	1.18	48:04	1.000	0.996-1.006	40.7843
- PCB-106/118	4.67e+07	1.60	y	1.22	41:34	1.000	0.996-1.006	44.2263	PCB-157	5.41e+07	1.24	y	1.08	48:21	1.001	0.995-1.005	48.7598
- PCB-114	4.83e+07	1.63	y	1.36	42:13	1.000	0.995-1.005	39.2653	PCB-169	4.79e+07	1.23	y	1.11	50:24	1.000	0.995-1.005	46.1389
PCB-122	*	n	1.24	NotFnd	*	0.998-1.008	*	*	PCB-188	4.43e+07	1.06	y	1.40	42:52	1.000	0.995-1.005	44.4981
PCB-105	4.91e+07	1.64	y	1.28	43:05	1.000	0.995-1.005	42.4916	PCB-184	*	n	1.24	NotFnd	*	1.006-1.016	*	
PCB-127	*	n	1.14	NotFnd	*	0.996-1.006	*	*	PCB-179	*	n	1.30	NotFnd	*	1.024-1.034	*	
PCB-126	5.10e+07	1.64	y	1.28	45:19	1.000	0.995-1.005	45.9479	PCB-176	*	n	1.36	NotFnd	*	1.035-1.045	*	
PCB-155	3.43e+07	1.28	y	1.14	37:04	1.000	0.966-1.006	43.3858	PCB-186	*	n	1.28	NotFnd	*	1.049-1.059	*	
PCB-150	*	n	1.06	NotFnd	*	1.030-1.040	*	*	PCB-178	3.09e+07	1.04	y	0.94	45:39	1.065	1.060-1.070	46.5975
PCB-152	*	n	1.10	NotFnd	*	1.043-1.052	*	*	PCB-175	*	n	0.97	NotFnd	*	1.069-1.079	*	
PCB-145	*	n	1.09	NotFnd	*	1.054-1.064	*	*	PCB-182/187	3.39e+07	1.05	y	1.01	46:09	1.077	1.073-1.083	47.1228
PCB-136	*	n	1.08	NotFnd	*	1.063-1.073	*	*	PCB-183	*	n	1.08	NotFnd	*	1.080-1.090	*	
PCB-148	*	n	0.74	NotFnd	*	1.066-1.076	*	*	PCB-185	*	n	1.34	NotFnd	*	0.951-0.961	*	
PCB-154	*	n	0.88	NotFnd	*	1.079-1.089	*	*	PCB-174	3.05e+07	1.05	y	1.34	47:31	0.963	0.958-0.968	42.7357
PCB-151	*	n	0.81	NotFnd	*	1.095-1.107	*	*	PCB-181	*	n	1.36	NotFnd	*	0.960-0.970	*	
PCB-135	*	n	0.78	NotFnd	*	1.101-1.113	*	*	PCB-177	*	n	1.24	NotFnd	*	0.964-0.974	*	
PCB-144	*	n	0.82	NotFnd	*	1.105-1.116	*	*	PCB-171	*	n	1.31	NotFnd	*	0.970-0.980	*	
PCB-147	*	n	0.83	NotFnd	*	1.107-1.119	*	*	PCB-173	*	n	1.16	NotFnd	*	0.978-0.988	*	
PCB-139/149	2.64e+07	1.29	y	0.84	41:31	1.120	1.115-1.127	44.9191	PCB-172	*	n	1.22	NotFnd	*	0.987-0.997	*	
- PCB-140	*	n	0.79	NotFnd	*	1.120-1.132	*	*	PCB-192	*	n	1.53	NotFnd	*	0.991-1.001	*	
- PCB-134/143	*	n	0.93	NotFnd	*	0.970-0.980	*	*	PCB-180	3.62e+07	1.04	y	1.43	49:21	1.000	0.995-1.005	47.5469

Integrations

by

RL: MONO, TRI - DECA: 

Analyst: *DMS*

Date: *6/23/14*

Client ID: PCB SSS 13C2017  
Lab ID: ST140620E1-7

Filename: 140620E1 S:8 Acq:20-JUN-14 15:57:15  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000  
ConCal: NA  
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	*	* n	1.65	NotFnd	*	1.000-1.010		*
PCB-191	*	* n	1.67	NotFnd	*	1.005-1.015		*
PCB-170	3.02e+07	1.05 y	1.50	50:45	1.000	0.995-1.005		45.8935
PCB-190	*	* n	2.02	NotFnd	*	0.999-1.009		*
PCB-189	4.06e+07	1.04 y	1.54	52:11	1.000	0.995-1.005		45.4382
PCB-202	3.36e+07	0.91 y	1.04	48:17	1.000	0.995-1.005		48.0173
PCB-201	*	* n	1.10	NotFnd	*	1.005-1.015		*
PCB-204	*	* n	0.99	NotFnd	*	1.009-1.019		*
PCB-197	*	* n	1.07	NotFnd	*	1.015-1.025		*
PCB-200	3.10e+07	0.89 y	1.02	50:04	1.037	1.034-1.044		45.3546
PCB-198	*	* n	0.74	NotFnd	*	1.062-1.072		*
PCB-199	*	* n	0.73	NotFnd	*	1.064-1.074		*
- PCB-196/203	2.50e+07	0.91 y	0.77	51:41	1.071	1.070-1.080		48.2272
- PCB-195	3.23e+07	0.93 y	1.20	52:48	0.984	0.979-0.989		46.5862
PCB-194	3.18e+07	0.92 y	1.25	53:40	1.000	0.995-1.005		44.2113
PCB-205	3.87e+07	0.91 y	1.41	53:56	1.005	1.000-1.010		47.4636
PCB-208	3.38e+07	1.34 y	0.96	52:57	1.000	0.995-1.005		43.0447
PCB-207	*	* n	0.92	NotFnd	*	1.001-1.011		*
PCB-206	2.22e+07	1.32 y	1.03	55:19	1.000	0.995-1.005		44.7501
PCB-209	2.36e+07	1.21 y	1.18	56:35	1.000	0.995-1.005		44.5640

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	2.93e+08	2.93 y	16:16	1.22	172.772
Total Di-PCB	9.42e+08	1.63 y	20:12	1.21	594.837
Total Tri-PCB	9.14e+07	1.06 y	24:18	1.16	83.3918
Total Tetra-PCB	4.08e+08	1.09 y	29:02	1.35	244.258
Total Penta-PCB	6.45e+08	0.78 y	28:02	1.17	500.308
Total Penta-PCB	3.41e+08	1.61 y	32:41	1.21	371.585
Total Penta-PCB	1.48e+08	1.63 y	42:13	1.26	127.705
Total Hexa-PCB	6.07e+07	1.28 y	37:04	0.92	88.3048
Total Hexa-PCB	3.30e+08	1.23 y	43:14	1.08	316.790
Total Hepta-PCB	2.47e+08	1.06 y	42:52	1.27	319.833
Total Octa-PCB	8.96e+07	0.91 y	48:17	0.92	141.599
Total Octa-PCB	1.08e+08	0.93 y	52:48	1.29	144.931
Total Nona-PCB	5.93e+07	1.34 y	52:57	0.96	92.7026
Total Deca-PCB	2.36e+07	1.21 y	56:35	1.18	44.5640

Total PCB Conc:3230.53670500

RL: MONO, TRI - DECA: \_\_\_\_\_

Integrations

by  
Analyst: DMS

Date: 6/23/14

Client ID: PCB SSS 13C2017  
Lab ID: ST140620E1-7

Filename: 140620E1 S:8 Acq:20-JUN-14 15:57:15  
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

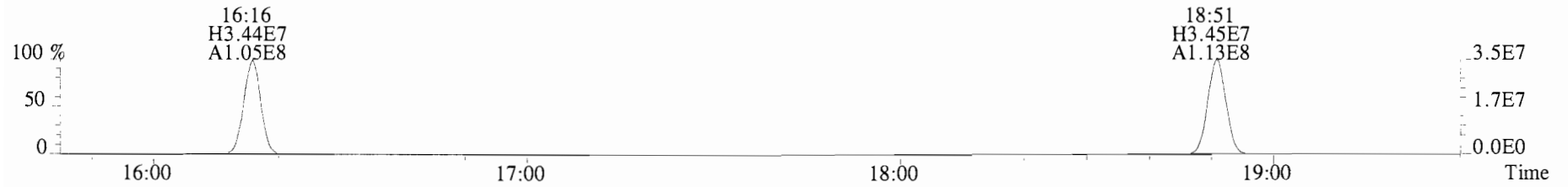
ConCal: NA  
EndCAL: NA

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	1.31e+08	3.23 y	0.89	16:15	0.625	0.622-0.628		92.5	92.5											
13C-PCB-3	1.43e+08	3.29 y	0.93	18:50	0.725	0.721-0.729		97.1	97.1		13C-PCB-79	1.33e+08	0.79 y	1.01	37:49	1.028	1.023-1.033		101	101
13C-PCB-4	8.64e+07	1.57 y	0.55	20:09	0.775	0.772-0.780		99.1	99.1		13C-PCB-178	5.10e+07	0.46 y	0.63	45:39	0.985	0.979-0.989		104	104
13C-PCB-9	1.31e+08	1.59 y	0.83	21:55	0.844	0.840-0.848		99.7	99.7											
13C-PCB-11	1.48e+08	1.57 y	0.94	25:17	0.973	0.968-0.978		99.0	99.0											
13C-PCB-19	8.56e+07	1.07 y	0.53	24:16	0.934	0.929-0.939		101	101											
13C-PCB-28	1.26e+08	1.06 y	0.89	29:07	1.004	0.999-1.009		96.3	96.3		13C-PCB-79	1.33e+08	0.79 y	1.20	37:49	0.968	0.963-0.973		103	103
13C-PCB-32	1.26e+08	1.08 y	0.81	27:10	1.046	1.041-1.051		97.4	97.4		13C-PCB-178	5.10e+07	0.46 y	0.94	45:39	0.925	0.920-0.930		102	102
13C-PCB-37	1.18e+08	1.07 y	0.83	32:59	1.137	1.131-1.143		96.5	96.5											
13C-PCB-47	9.50e+07	0.79 y	0.74	32:02	0.871	0.867-0.875		97.3	97.3											
13C-PCB-52	9.18e+07	0.79 y	0.71	31:31	0.857	0.853-0.861		98.7	98.7											
13C-PCB-54	1.11e+08	0.81 y	0.85	28:01	0.762	0.758-0.766		99.5	99.5											
13C-PCB-70	1.21e+08	0.80 y	0.94	35:32	0.966	0.961-0.971		97.6	97.6											
13C-PCB-77	1.15e+08	0.82 y	0.89	39:38	1.078	1.073-1.083		97.7	97.7											
13C-PCB-80	1.23e+08	0.80 y	0.96	35:57	0.977	0.972-0.982		97.7	97.7											
13C-PCB-81	1.08e+08	0.80 y	0.84	39:03	1.062	1.057-1.067		98.0	98.0											
13C-PCB-95	6.03e+07	1.60 y	0.74	35:50	0.913	0.908-0.918		96.2	96.2											
13C-PCB-97	5.73e+07	1.60 y	0.69	38:48	0.989	0.984-0.994		98.6	98.6											
13C-PCB-101	6.41e+07	1.62 y	0.79	37:31	0.956	0.951-0.961		96.9	96.9											
13C-PCB-104	8.27e+07	1.58 y	1.00	32:41	0.833	0.829-0.837		98.6	98.6		13C-PCB-15	1.59e+08	1.58 y	1.00	25:59			100		
13C-PCB-105	9.01e+07	1.57 y	1.24	43:04	0.929	0.924-0.934		93.2	93.2		13C-PCB-31	1.47e+08	1.05 y	1.00	29:01			100		
13C-PCB-114	9.08e+07	1.58 y	1.21	42:13	0.911	0.905-0.915		96.4	96.4		13C-PCB-60	1.31e+08	0.79 y	1.00	36:47			100		
13C-PCB-118	8.63e+07	1.58 y	0.98	41:33	1.059	1.054-1.064		104	104		13C-PCB-111	8.43e+07	1.61 y	1.00	39:14			100		
13C-PCB-123	8.13e+07	1.62 y	0.95	41:22	1.054	1.049-1.059		102	102		13C-PCB-128	7.81e+07	1.26 y	1.00	46:22			100		
13C-PCB-126	8.64e+07	1.58 y	1.16	45:18	0.977	0.972-0.982		95.3	95.3		13C-PCB-205	7.26e+07	0.91 y	1.00	53:56			100		
13C-PCB-127	1.01e+08	1.56 y	1.34	43:24	0.936	0.931-0.941		96.4	96.4											
13C-PCB-138	8.05e+07	1.26 y	1.04	44:48	0.966	0.961-0.971		98.8	98.8											
13C-PCB-141	8.18e+07	1.28 y	1.07	43:58	0.948	0.943-0.953		97.8	97.8											
13C-PCB-153	8.57e+07	1.29 y	1.11	43:13	0.932	0.927-0.937		98.6	98.6											
13C-PCB-155	6.96e+07	1.27 y	0.83	37:03	0.944	0.939-0.949		99.3	99.3											
13C-PCB-156	9.61e+07	1.28 y	1.24	48:03	1.037	1.032-1.042		98.9	98.9											
13C-PCB-157	1.02e+08	1.29 y	1.31	48:20	1.042	1.037-1.047		100	100											
13C-PCB-159	9.18e+07	1.29 y	1.20	46:05	0.994	0.989-0.999		98.1	98.1											
13C-PCB-167	1.01e+08	1.28 y	1.32	46:46	1.009	1.004-1.014		98.4	98.4											
13C-PCB-169	9.38e+07	1.28 y	1.22	50:24	1.087	1.082-1.092		98.9	98.9											
13C-PCB-170	4.38e+07	0.48 y	0.54	50:45	1.095	1.089-1.101		105	105											
13C-PCB-180	5.33e+07	0.46 y	0.67	49:20	1.064	1.059-1.069		101	101											
13C-PCB-188	7.08e+07	0.47 y	0.94	42:51	0.924	0.919-0.929		97.0	97.0											
13C-PCB-189	5.80e+07	0.46 y	0.72	52:11	1.126	1.120-1.132		104	104											
13C-PCB-194	5.78e+07	0.93 y	0.81	53:39	0.995	0.990-1.000		98.3	98.3											
13C-PCB-202	6.72e+07	0.91 y	0.83	48:16	1.041	1.036-1.046		103	103											
13C-PCB-206	4.83e+07	0.79 y	0.66	55:18	1.025	1.021-1.031		101	101											
13C-PCB-208	8.16e+07	0.77 y	1.12	52:56	0.981	0.976-0.986		100	100											
13C-PCB-209	4.51e+07	1.20 y	0.61	56:34	1.049	1.044-1.054		101	101											

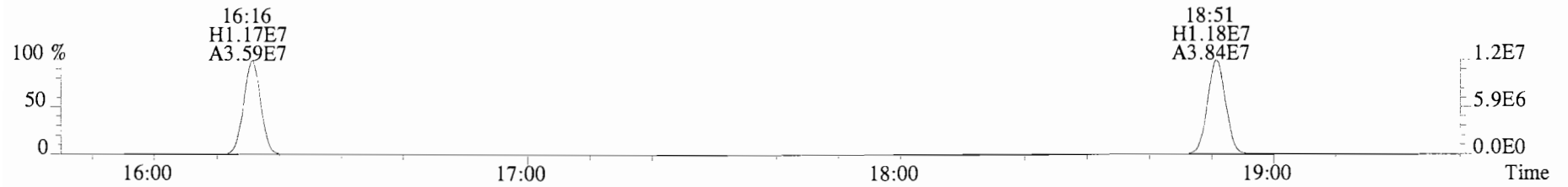
Analyst: Dms

Date: 6/23/14

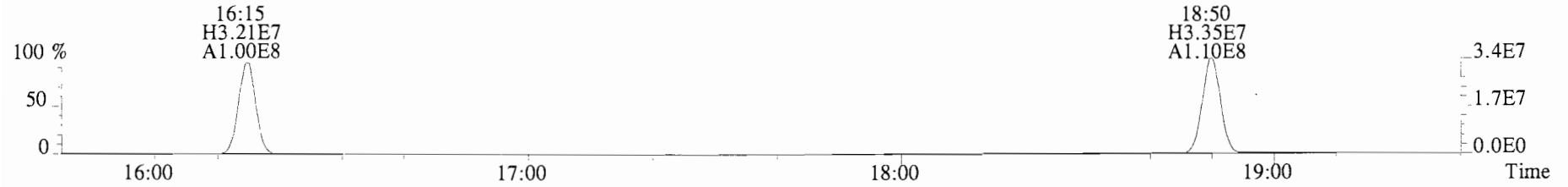
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Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3464.0,0.00%,F,F)



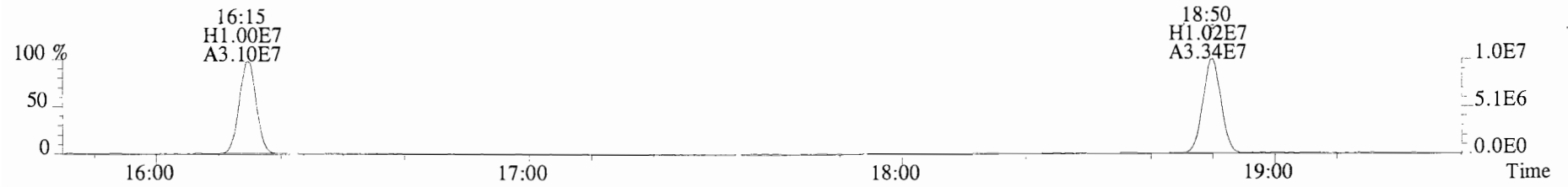
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3608.0,0.00%,F,F)



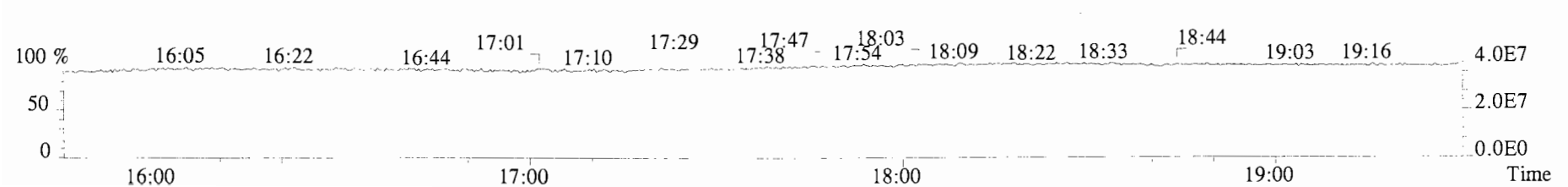
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4512.0,0.00%,F,F)



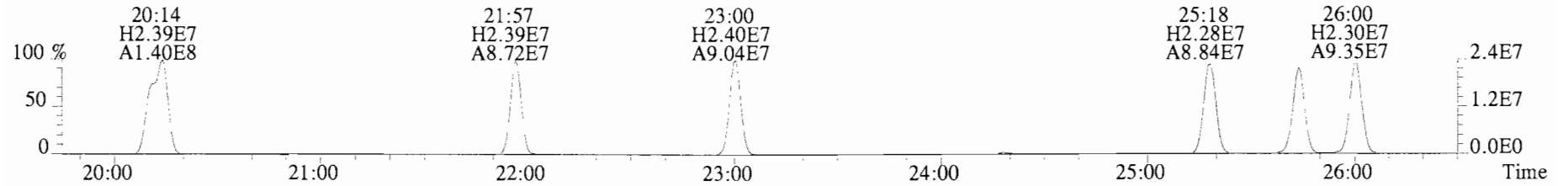
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36824.0,0.00%,F,F)



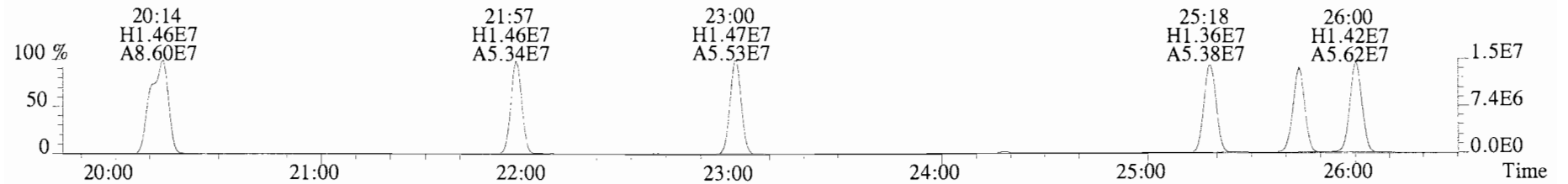
180.9880 S:8



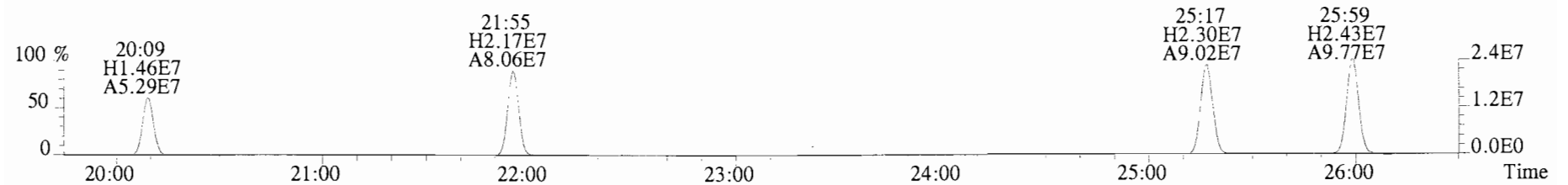
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 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
 222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6184.0,0.00%,F,F)



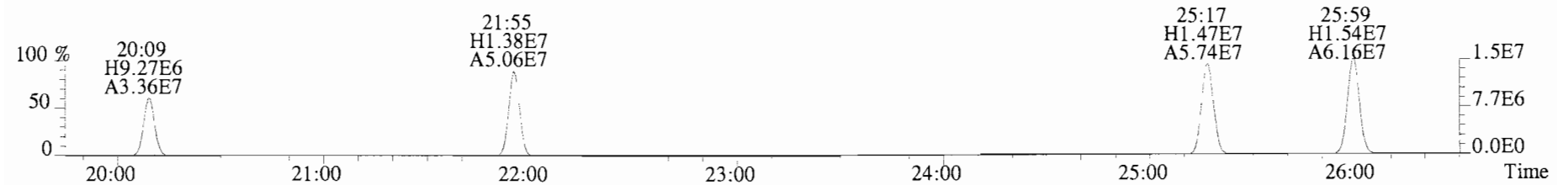
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24372.0,0.00%,F,F)



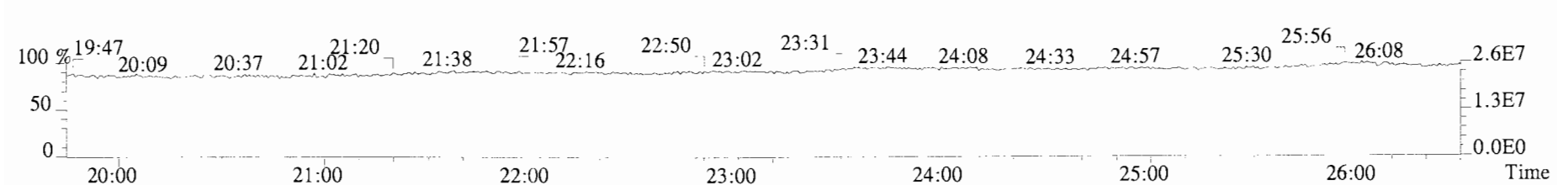
234.0406 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4564.0,0.00%,F,F)



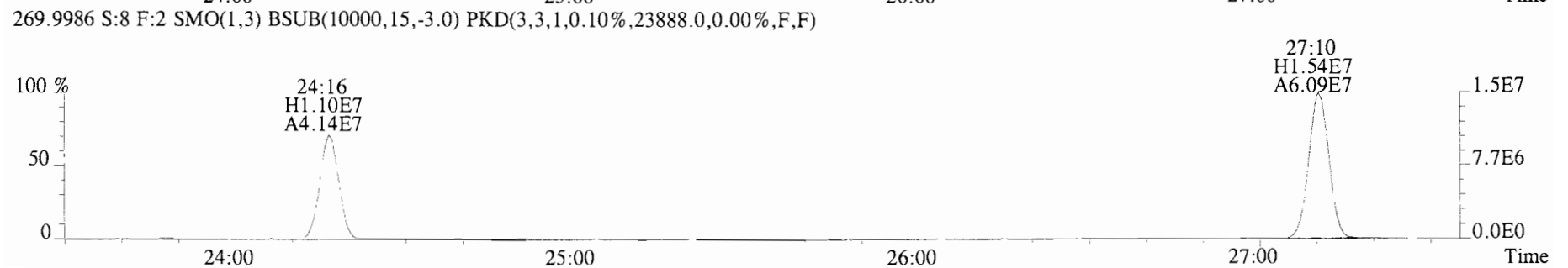
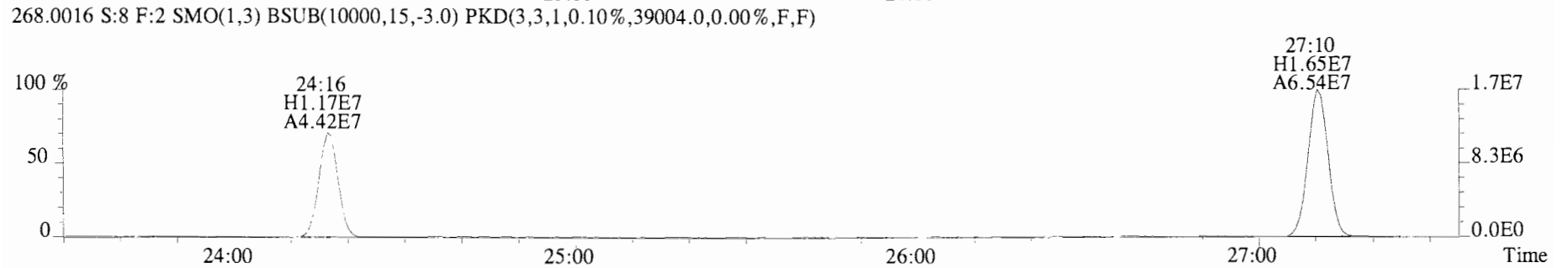
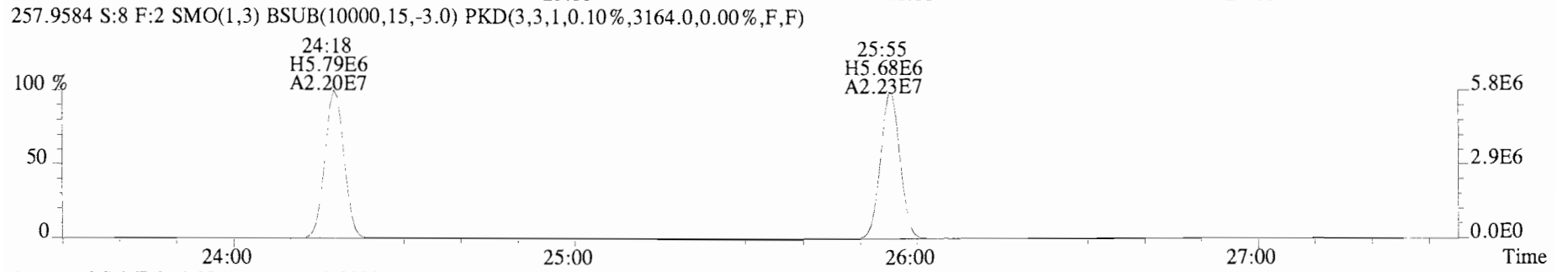
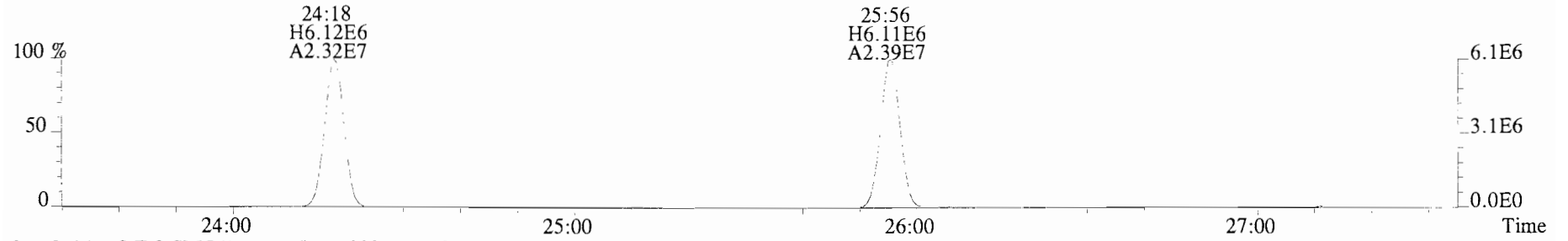
236.0376 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4628.0,0.00%,F,F)



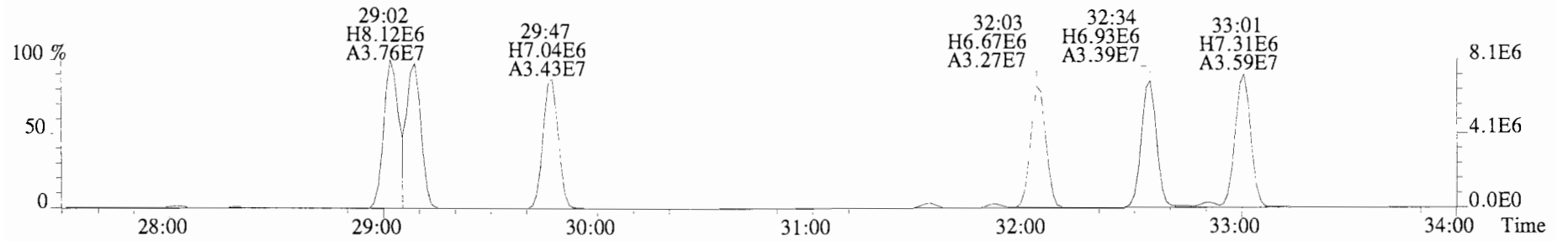
230.9856 S:8 F:2



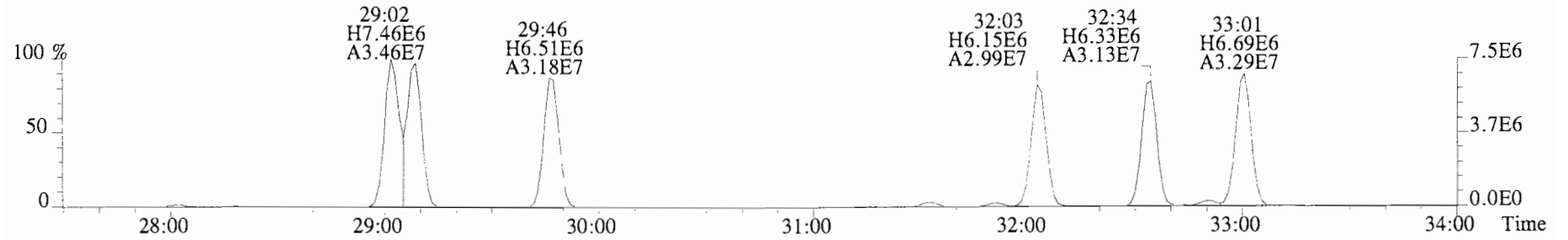
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Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3548.0,0.00%,F,F)



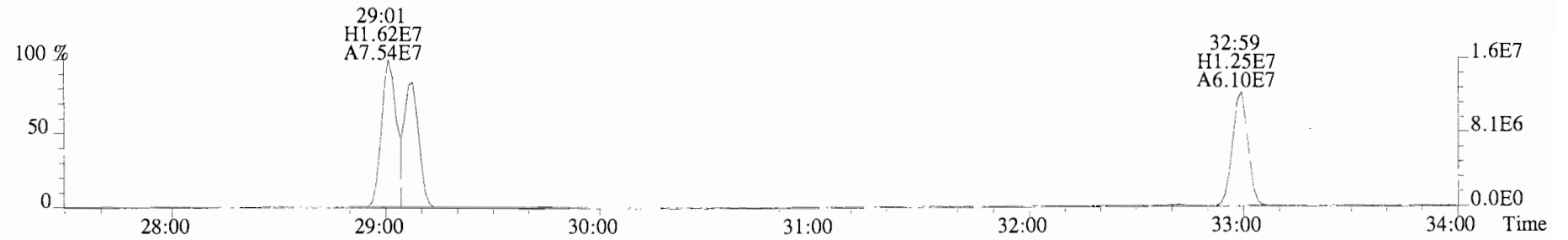
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Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7044.0,0.00%,F,F)



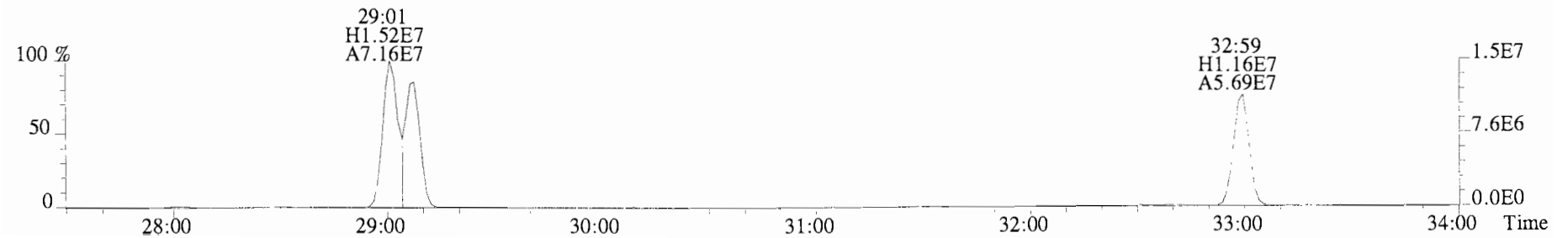
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6788.0,0.00%,F,F)



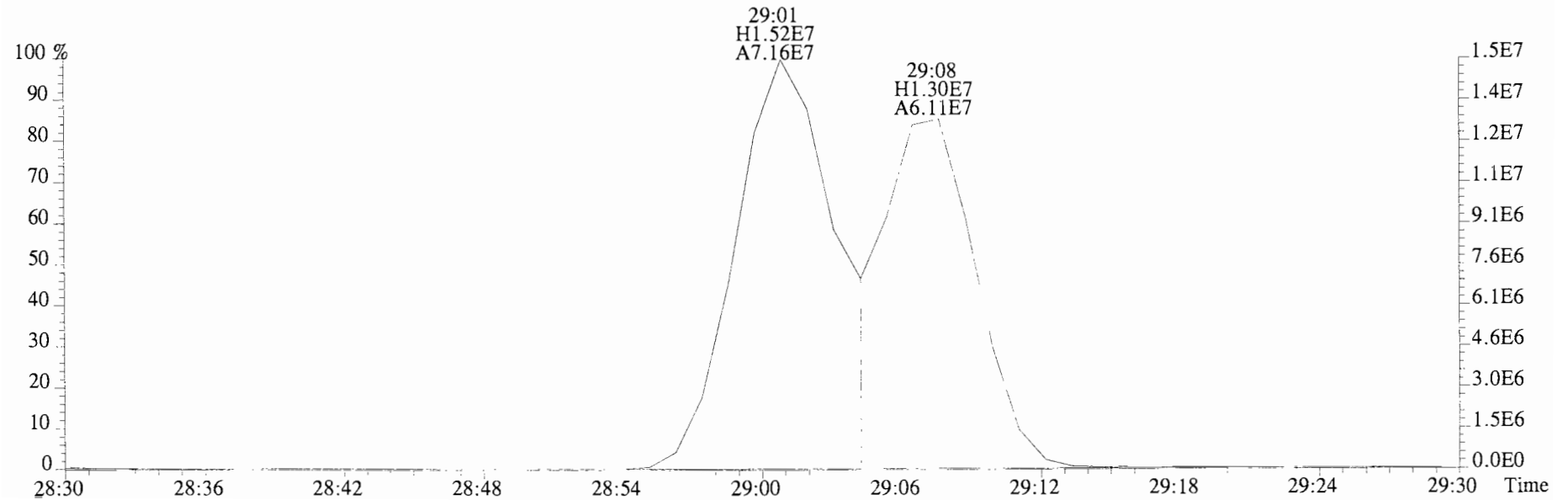
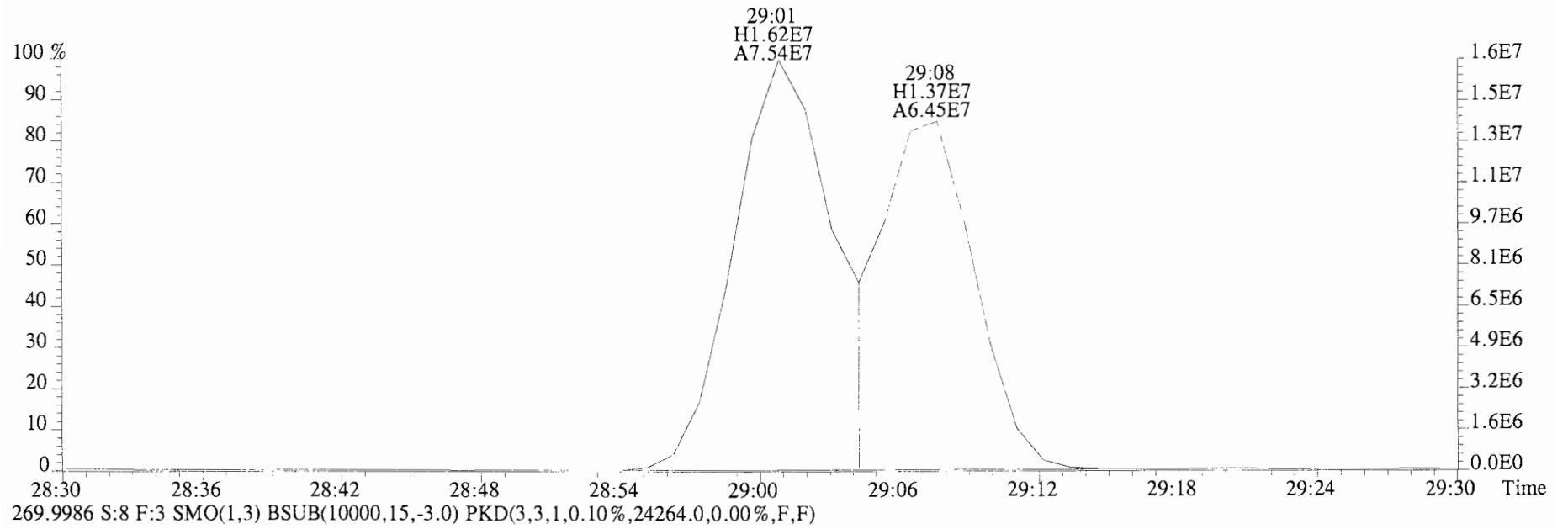
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48760.0,0.00%,F,F)



269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24264.0,0.00%,F,F)

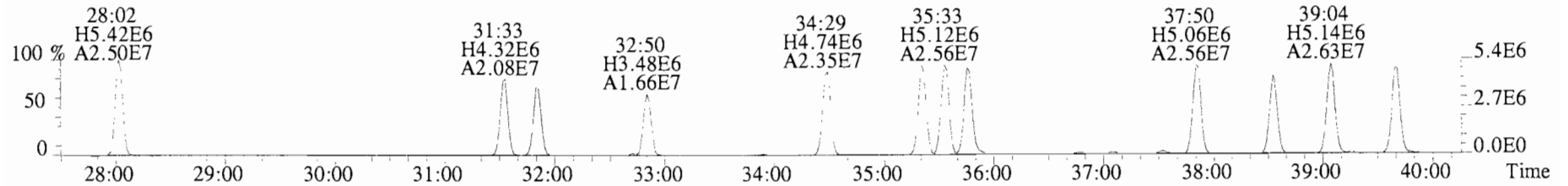


File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,48760.0,0.00%,F,F)

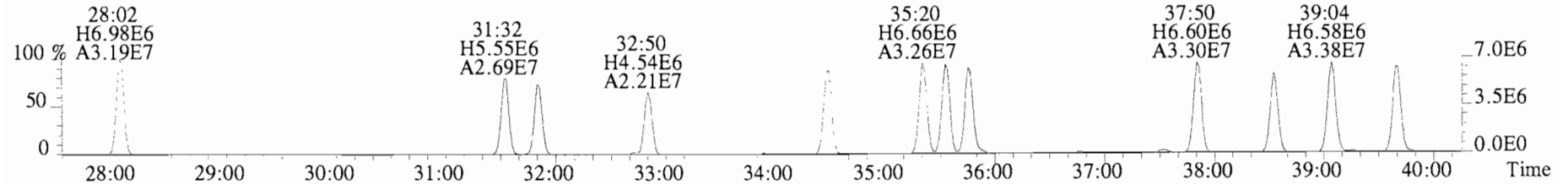




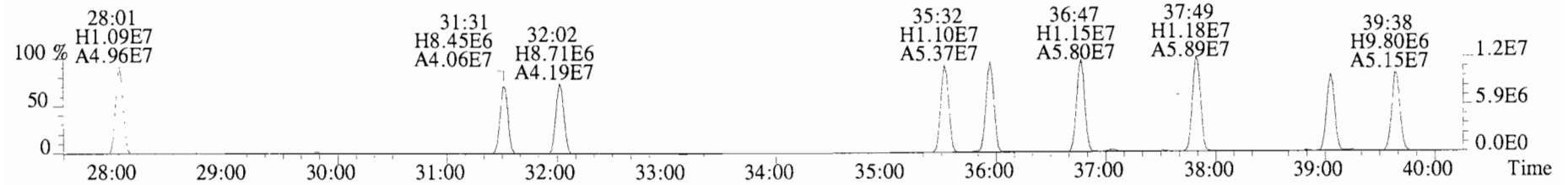
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4324.0,0.00%,F,F)



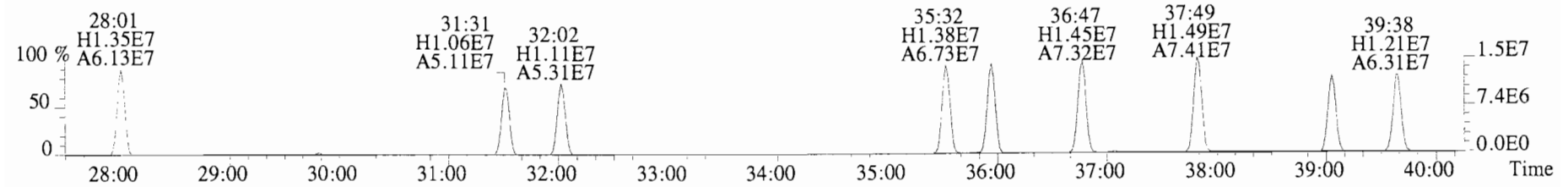
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5172.0,0.00%,F,F)



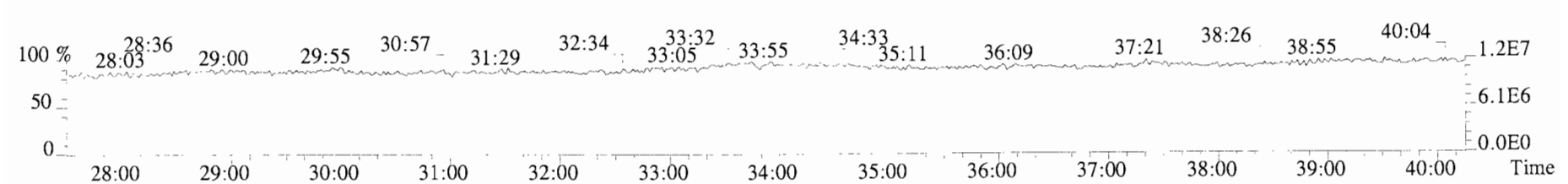
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9140.0,0.00%,F,F)



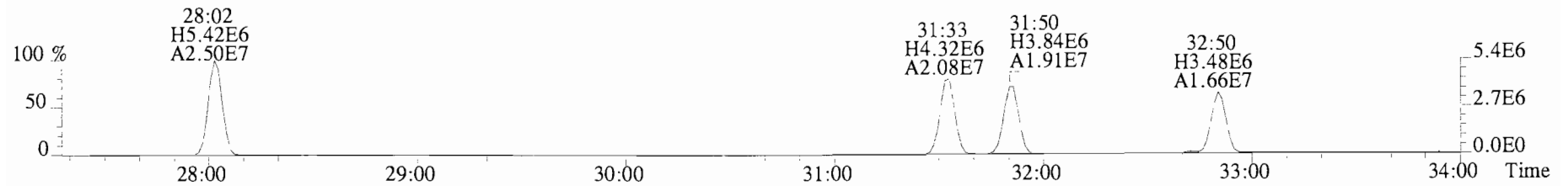
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7940.0,0.00%,F,F)



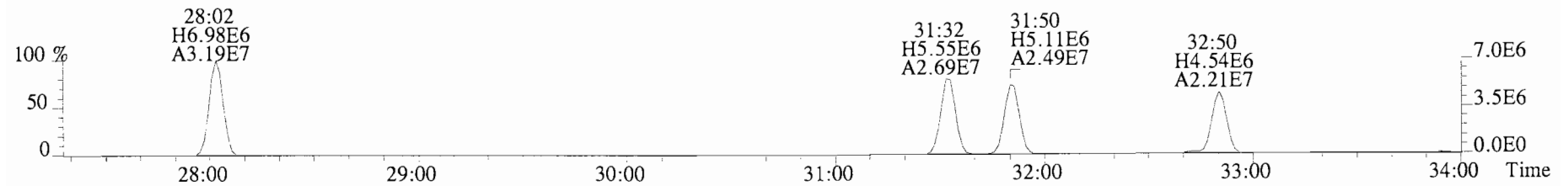
330.9792 S:8 F:3



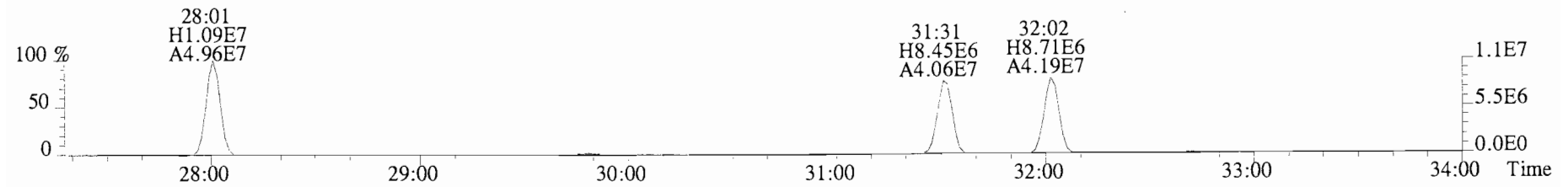
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4324.0,0.00%,F,F)



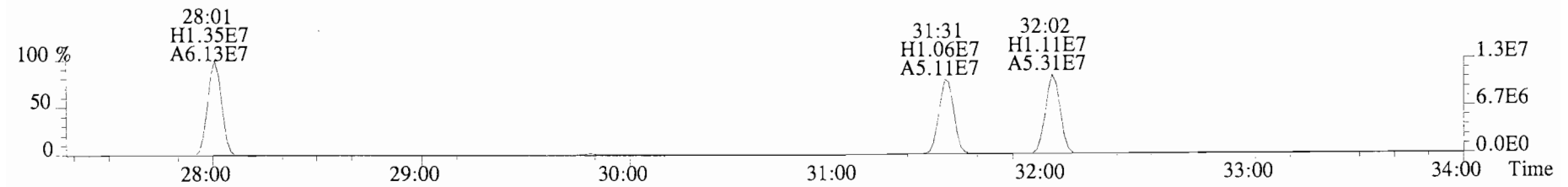
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5172.0,0.00%,F,F)



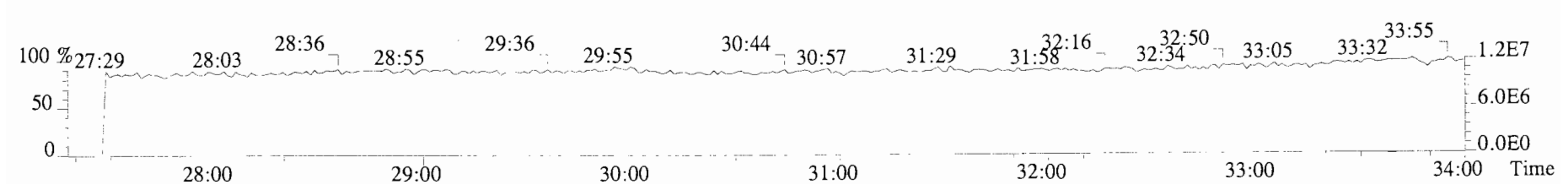
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9140.0,0.00%,F,F)



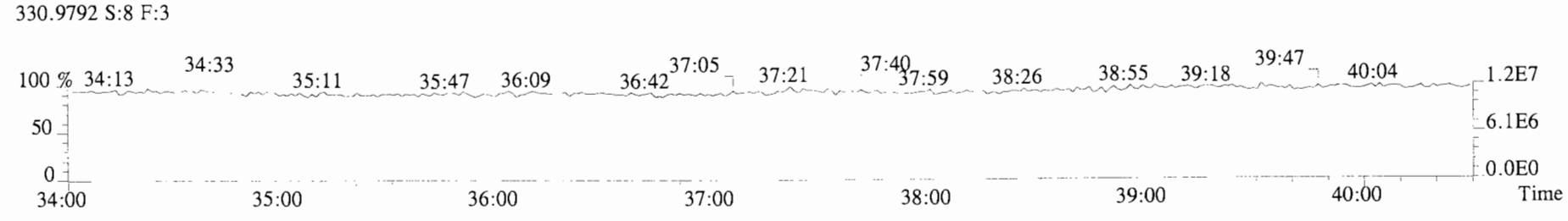
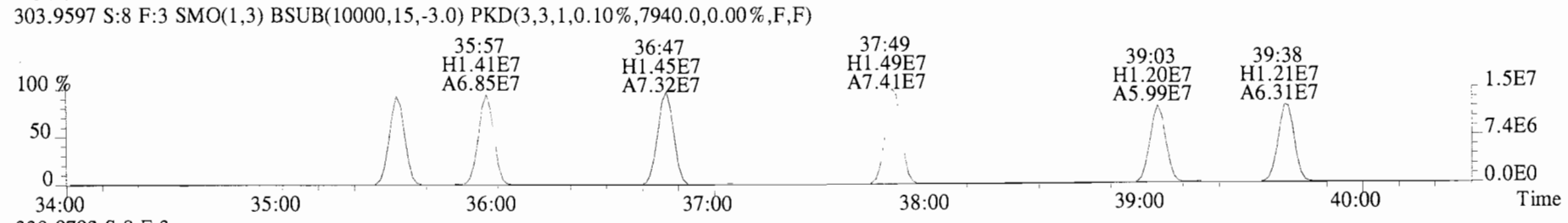
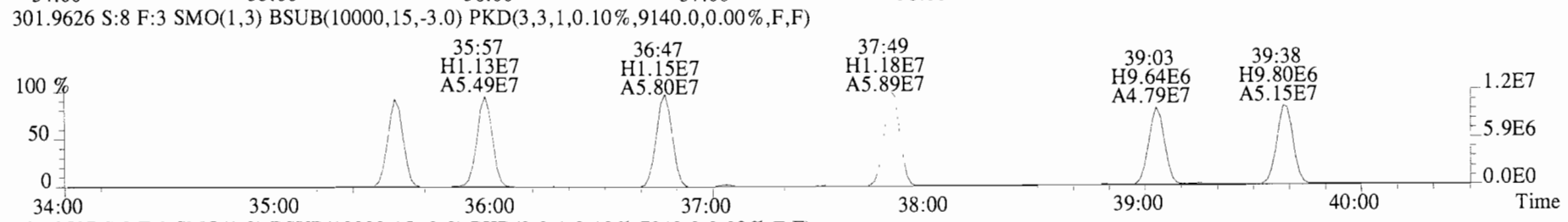
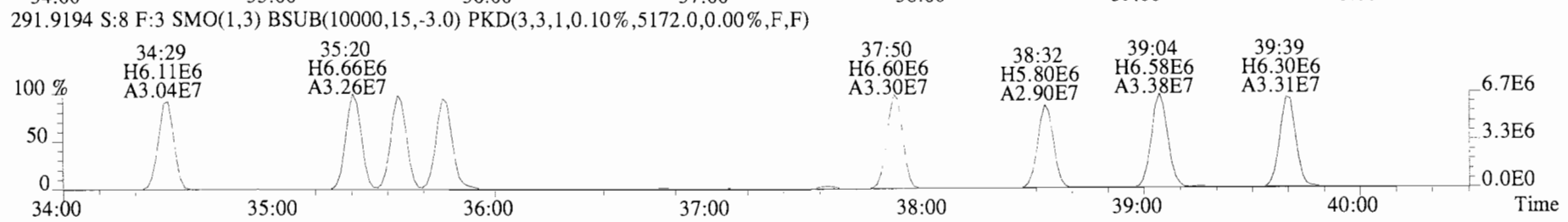
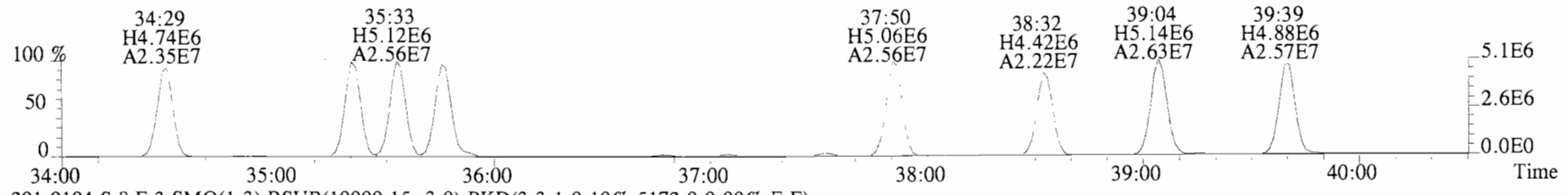
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7940.0,0.00%,F,F)



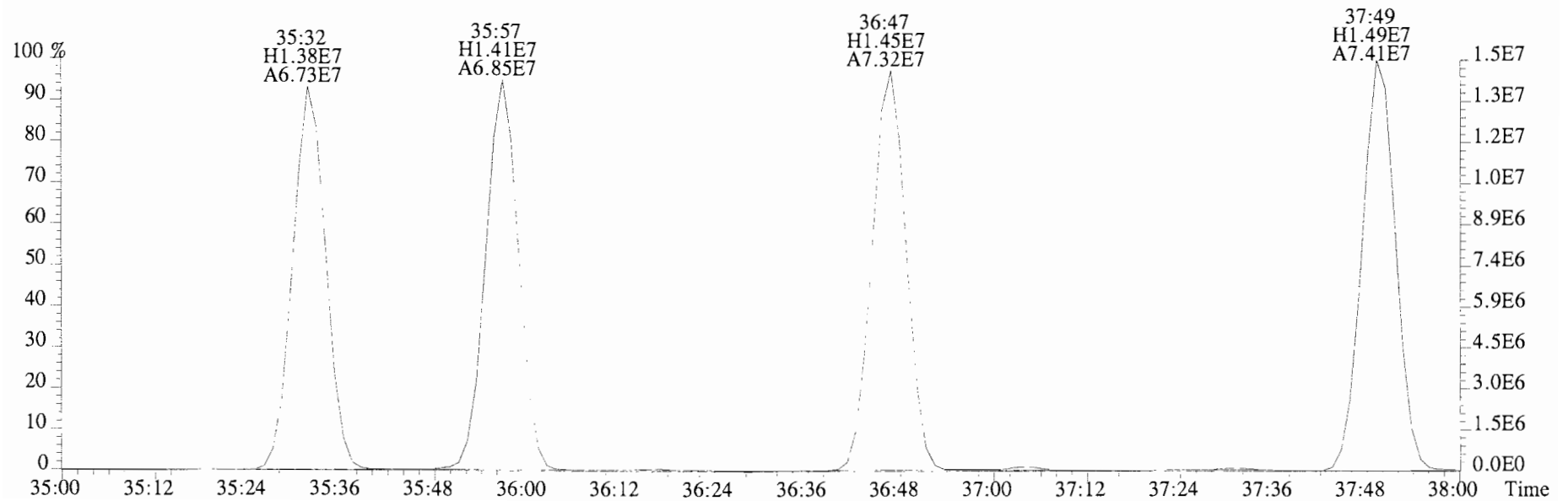
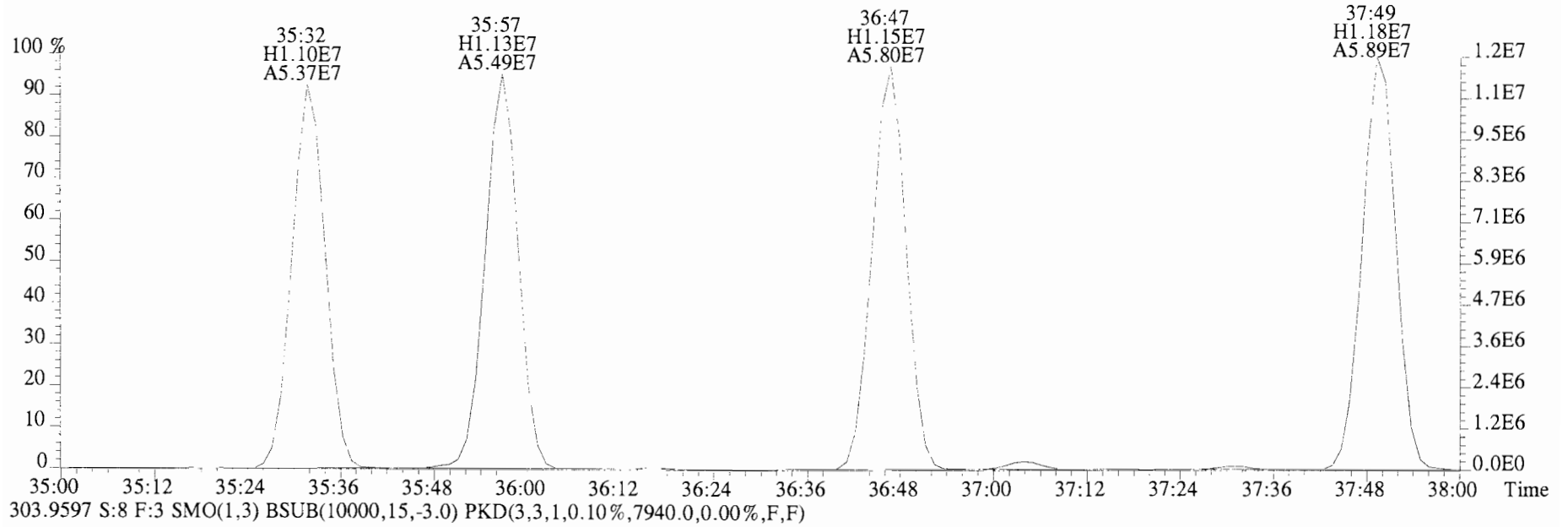
330.9792 S:8 F:3



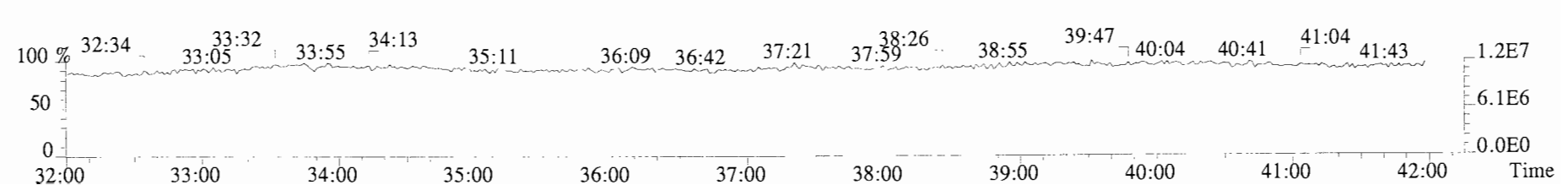
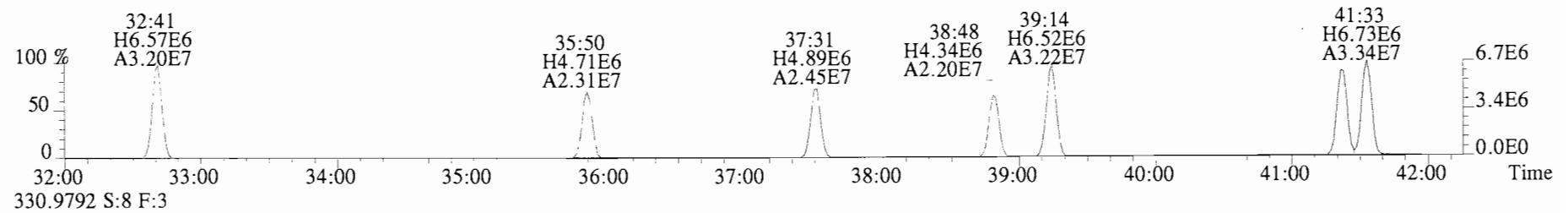
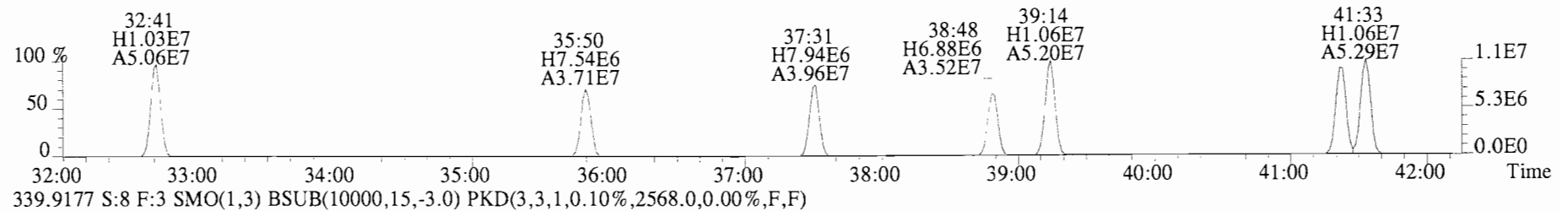
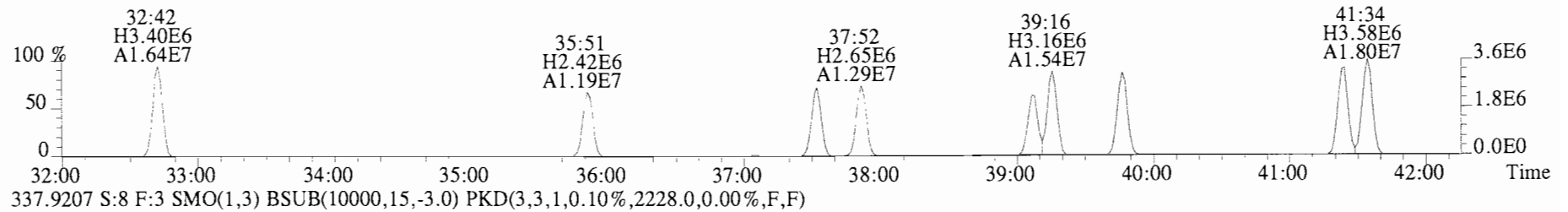
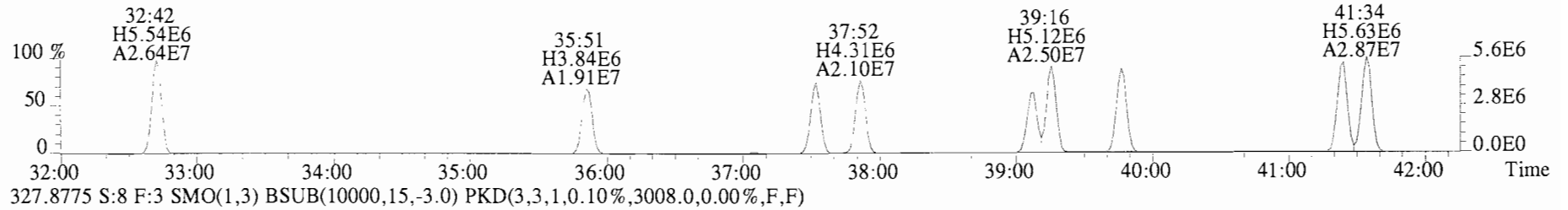
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
 289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4324,0.00%,F,F)



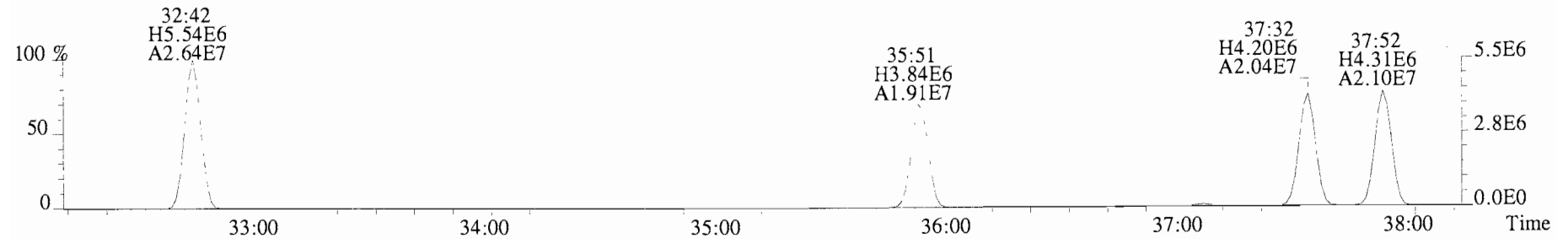
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9140.0,0.00%,F,F)



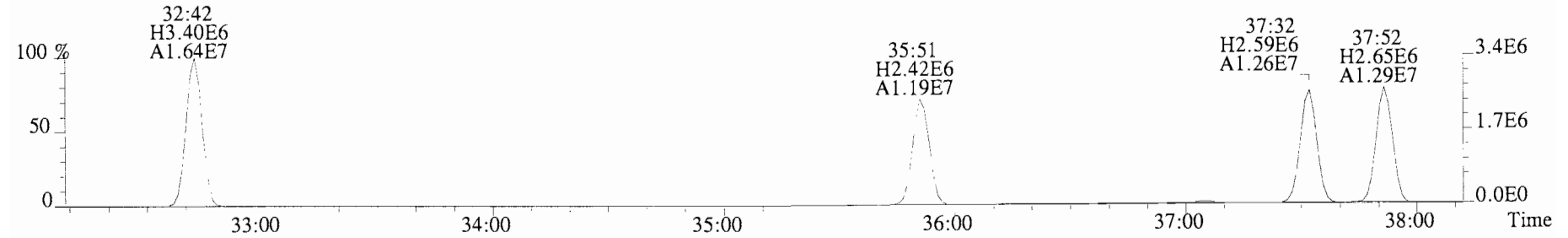
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



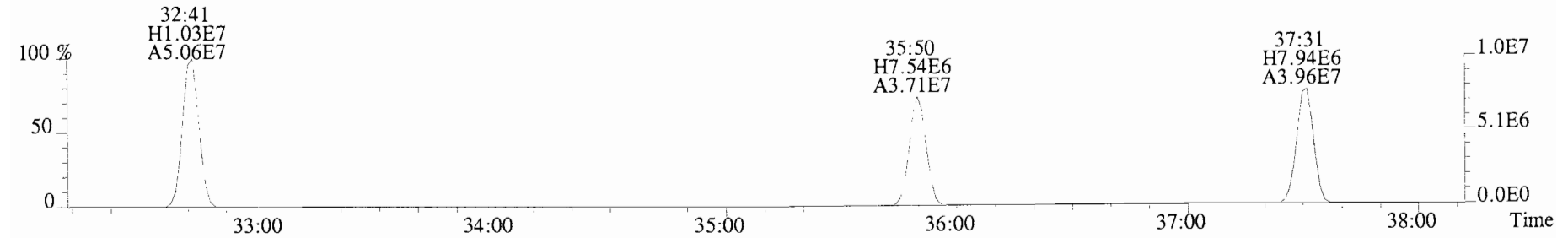
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



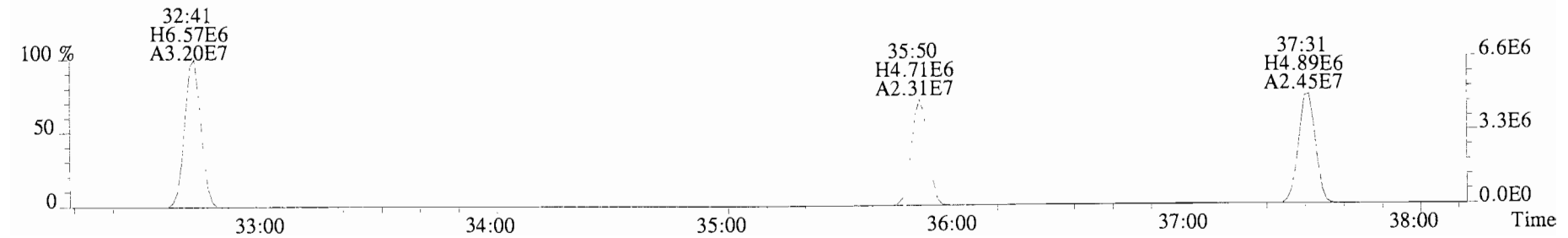
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3008.0,0.00%,F,F)



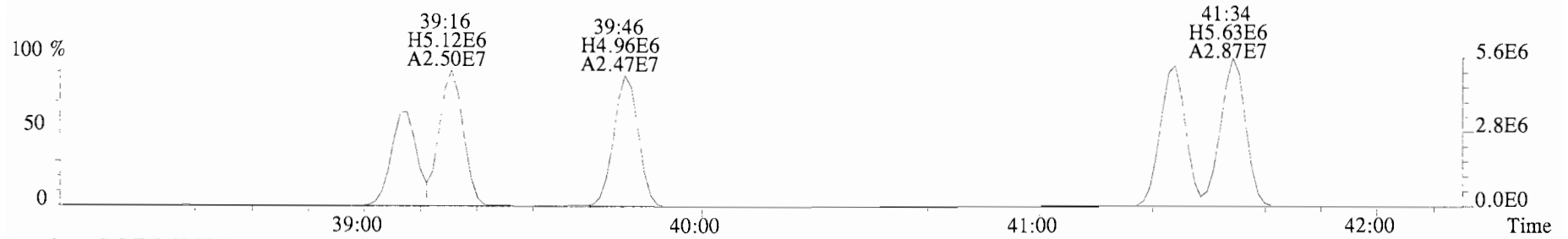
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2228.0,0.00%,F,F)



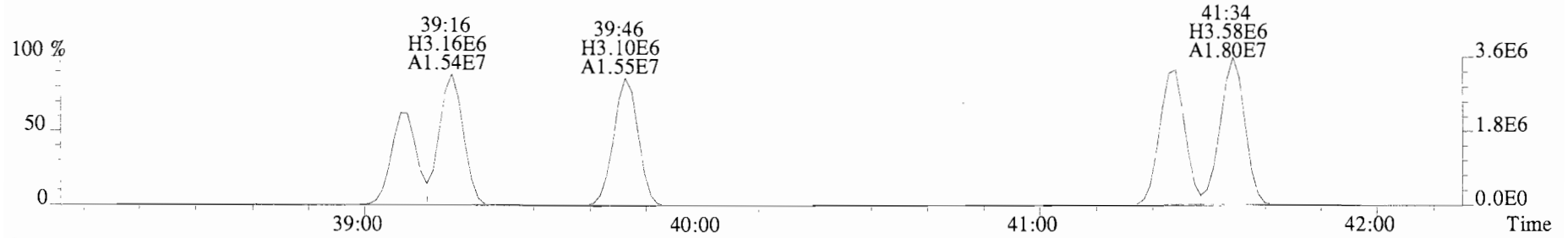
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)



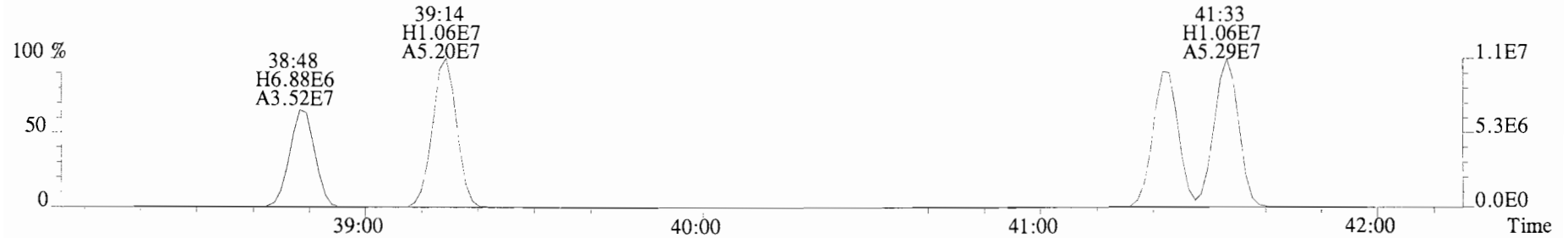
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3592.0,0.00%,F,F)



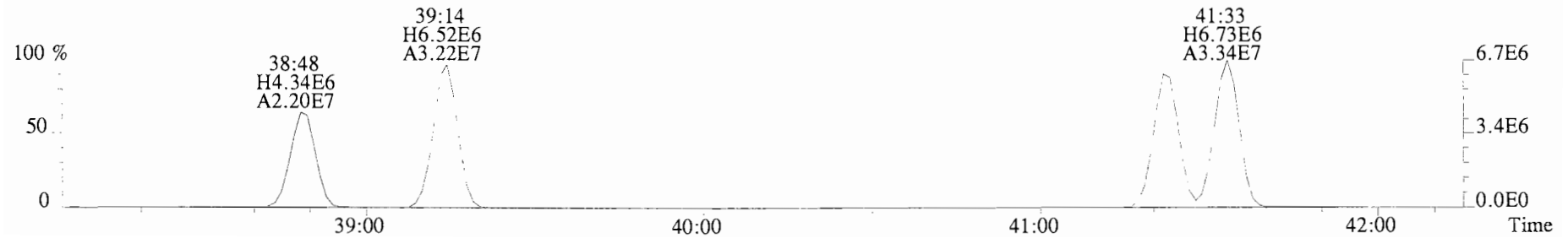
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3008.0,0.00%,F,F)



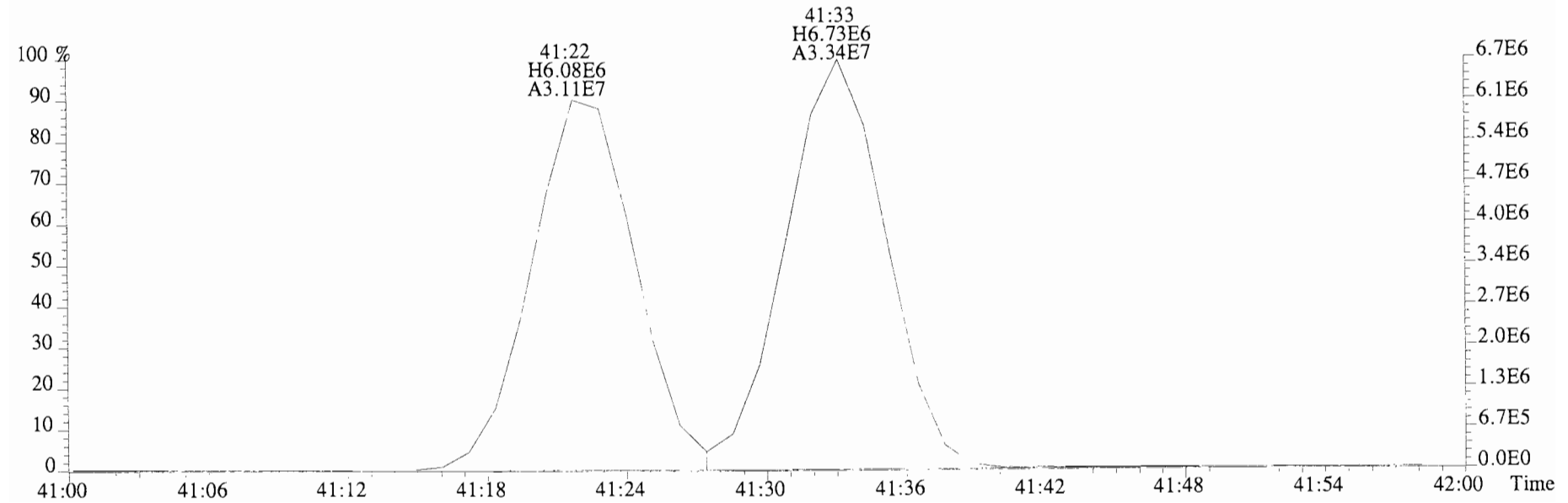
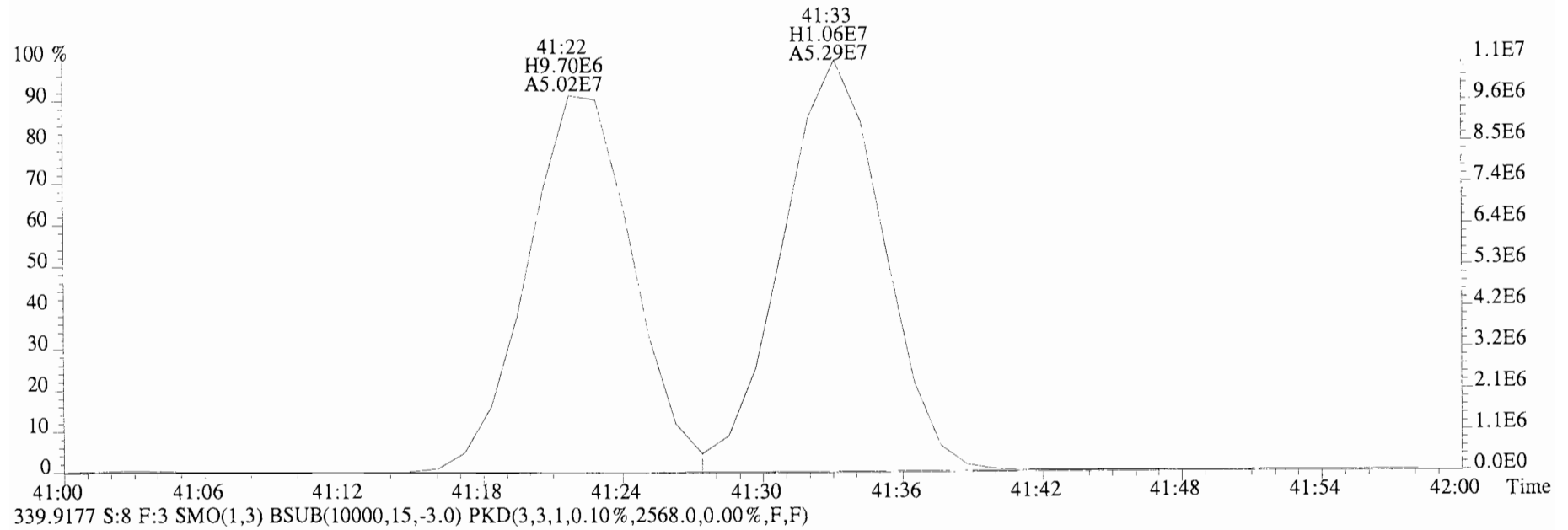
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2228.0,0.00%,F,F)



339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2568.0,0.00%,F,F)

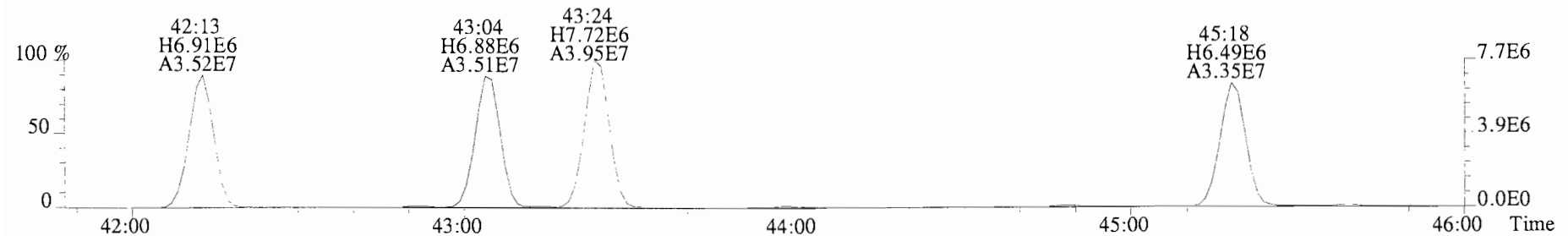
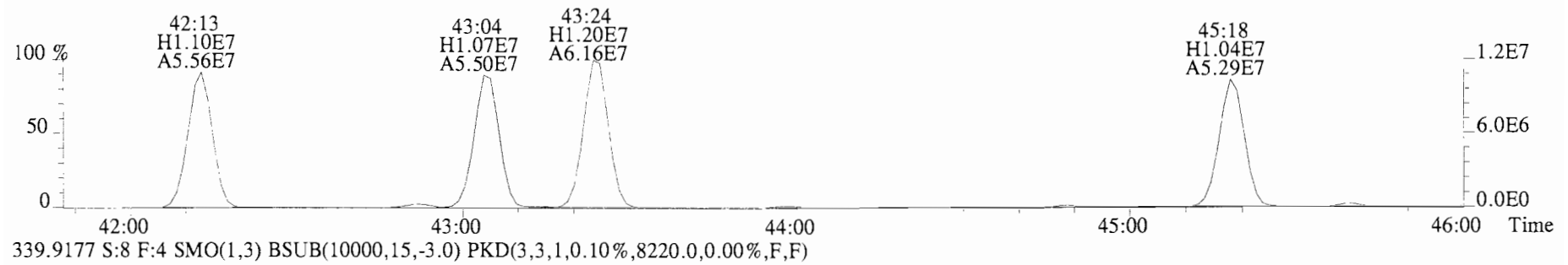
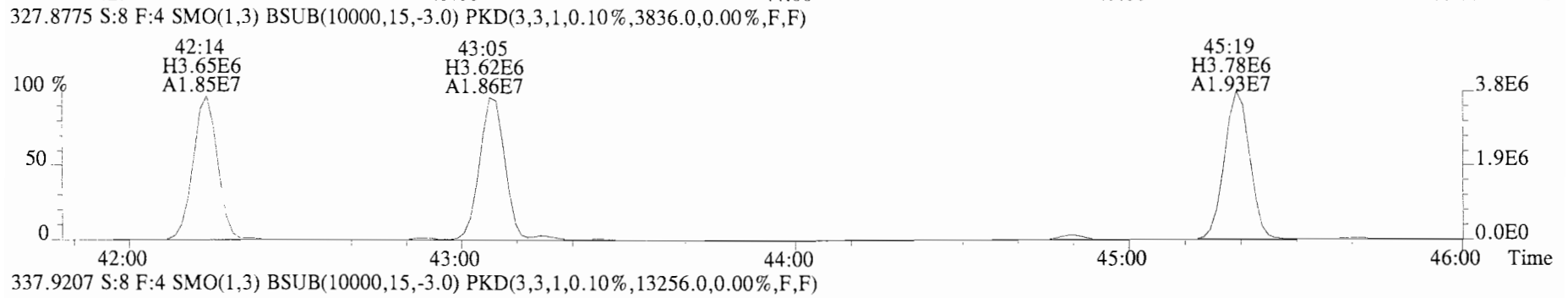
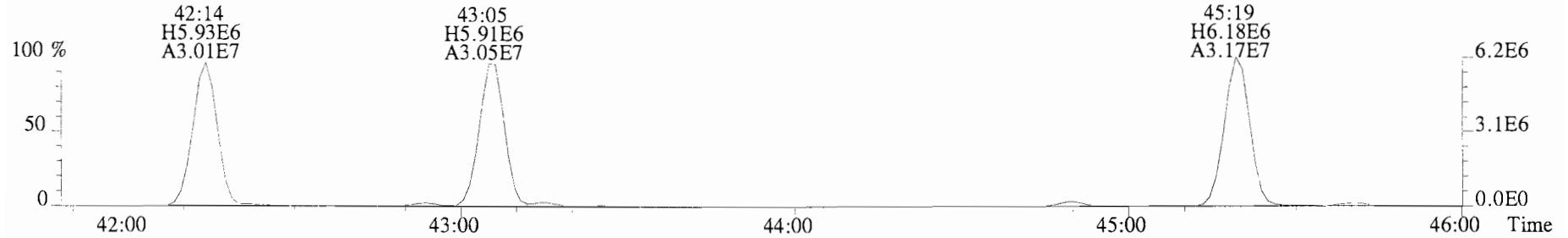


File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2228.0,0.00%,F,F)

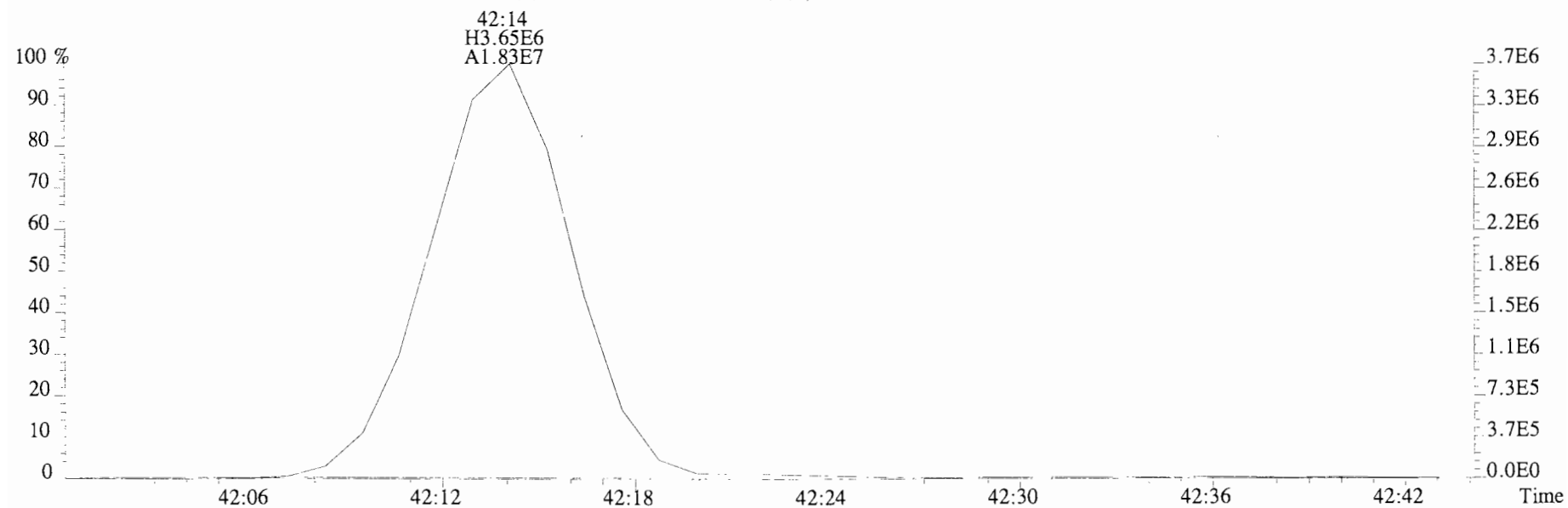
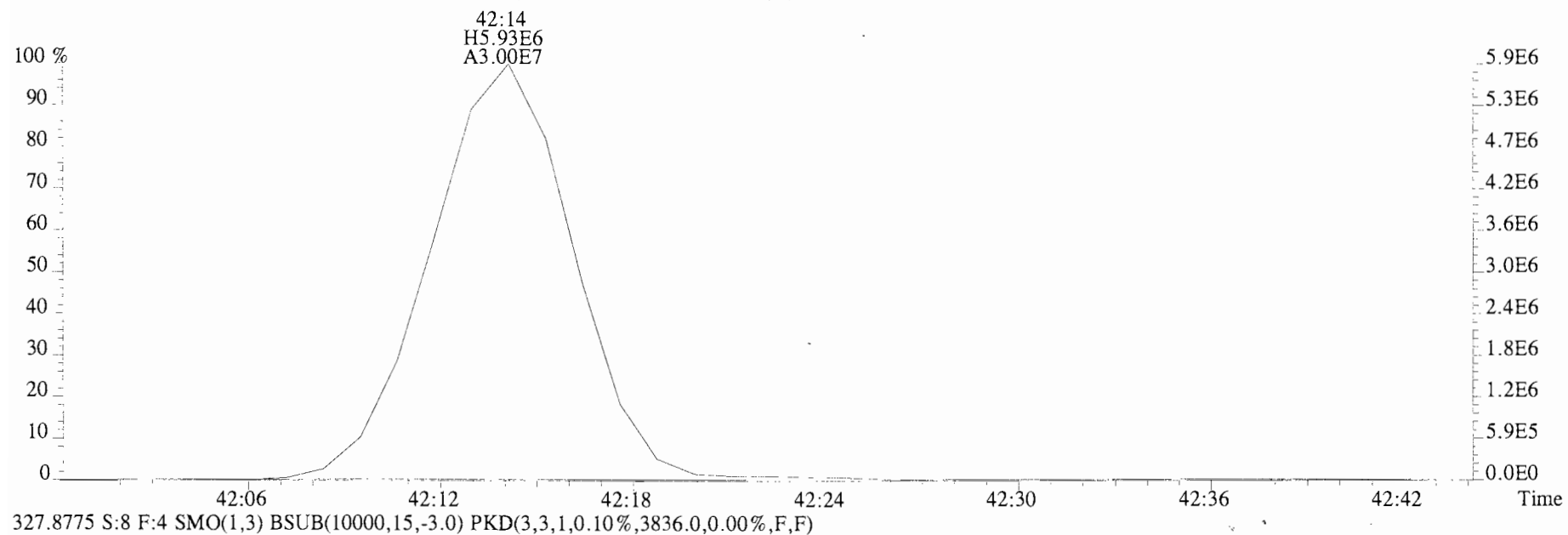




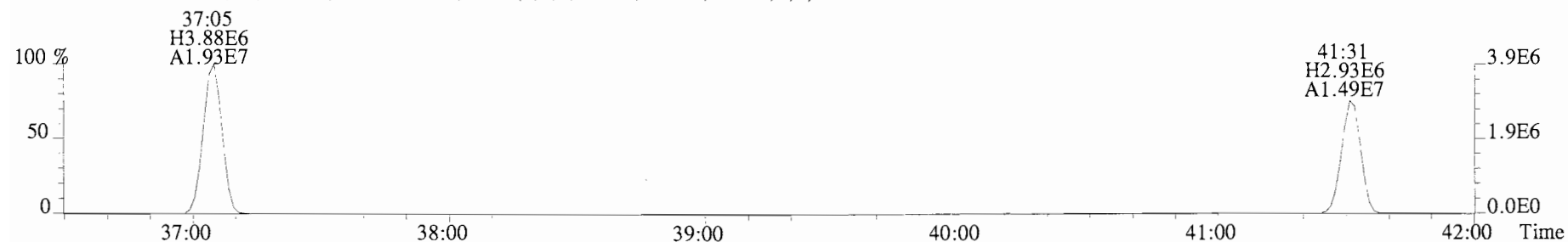
File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7348.0,0.00%,F,F)



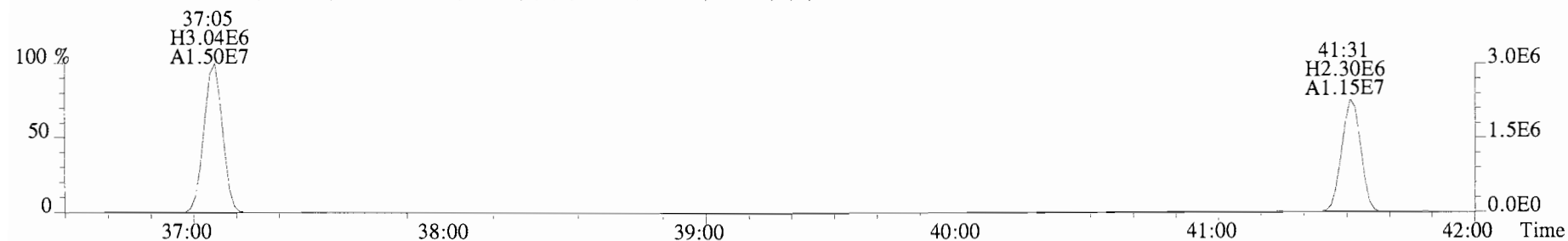
File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB SSS 13C2017 Exp:PCB\_ZB1  
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7348.0,0.00%,F,F)



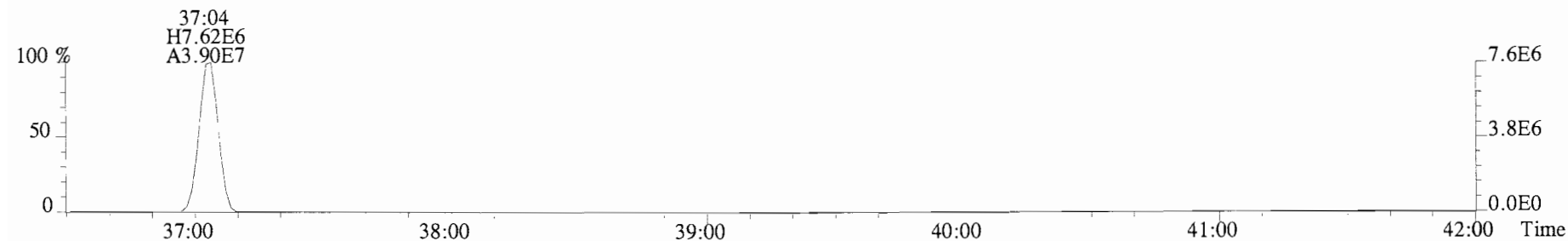
File:140620E1 #1-767 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2348.0,0.00%,F,F)



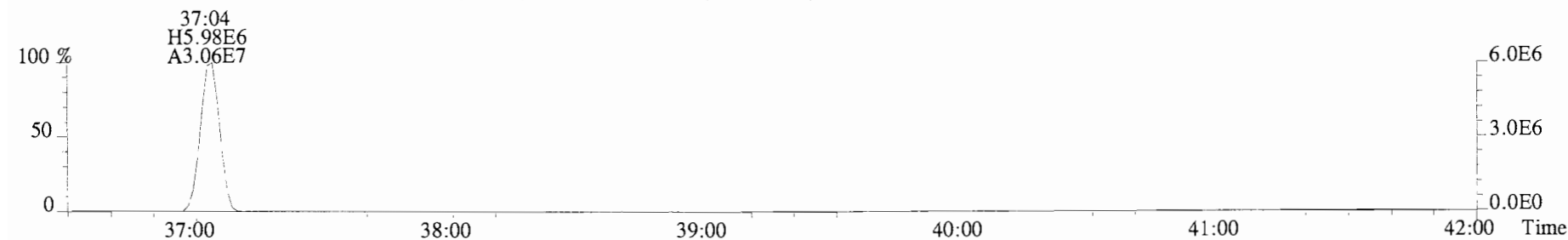
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



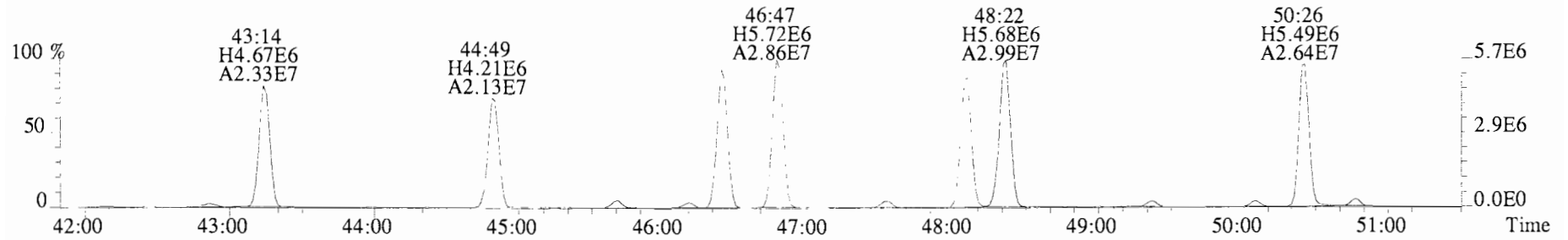
371.8817 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2068.0,0.00%,F,F)



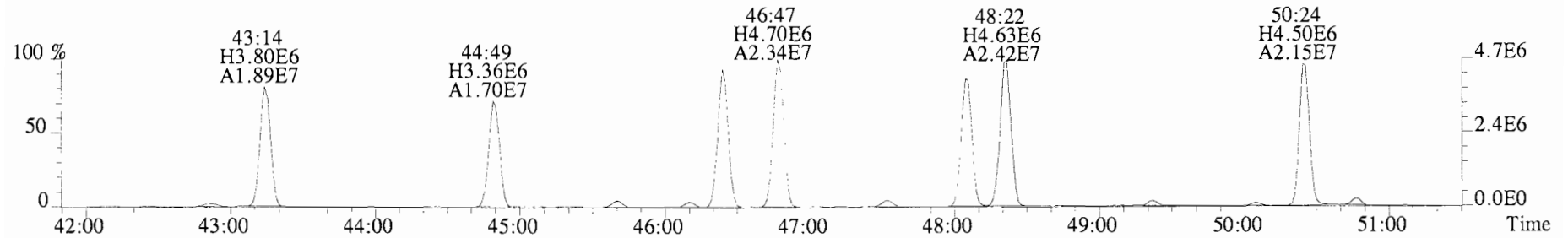
373.8788 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



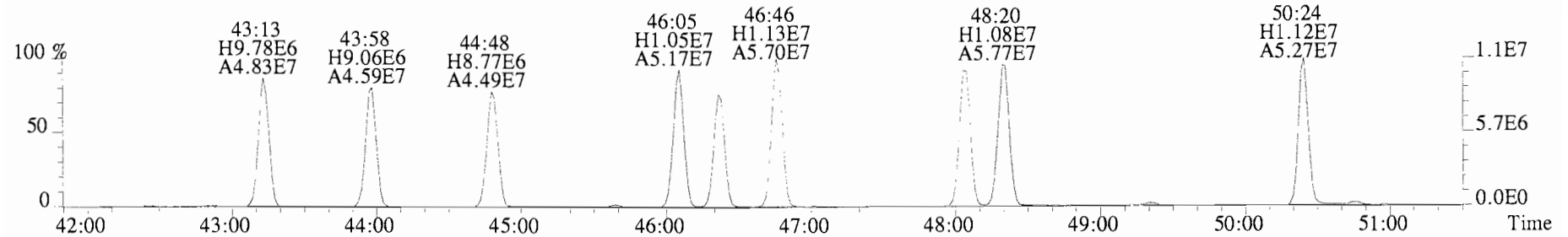
File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10568.0,0.00%,F,F)



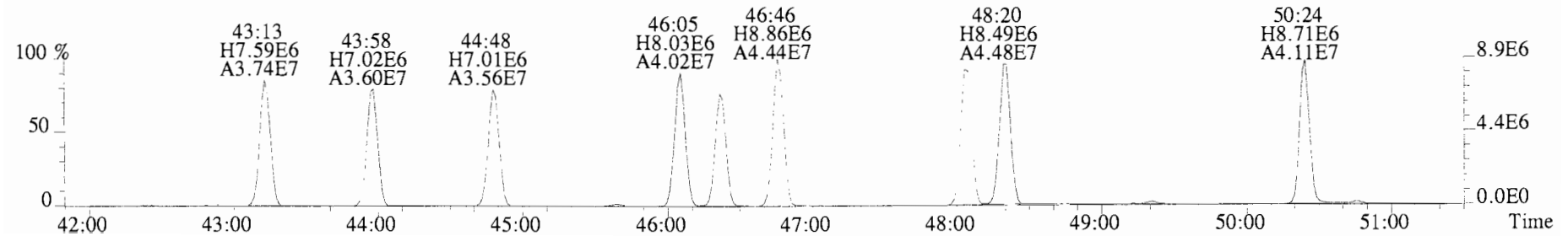
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9596.0,0.00%,F,F)



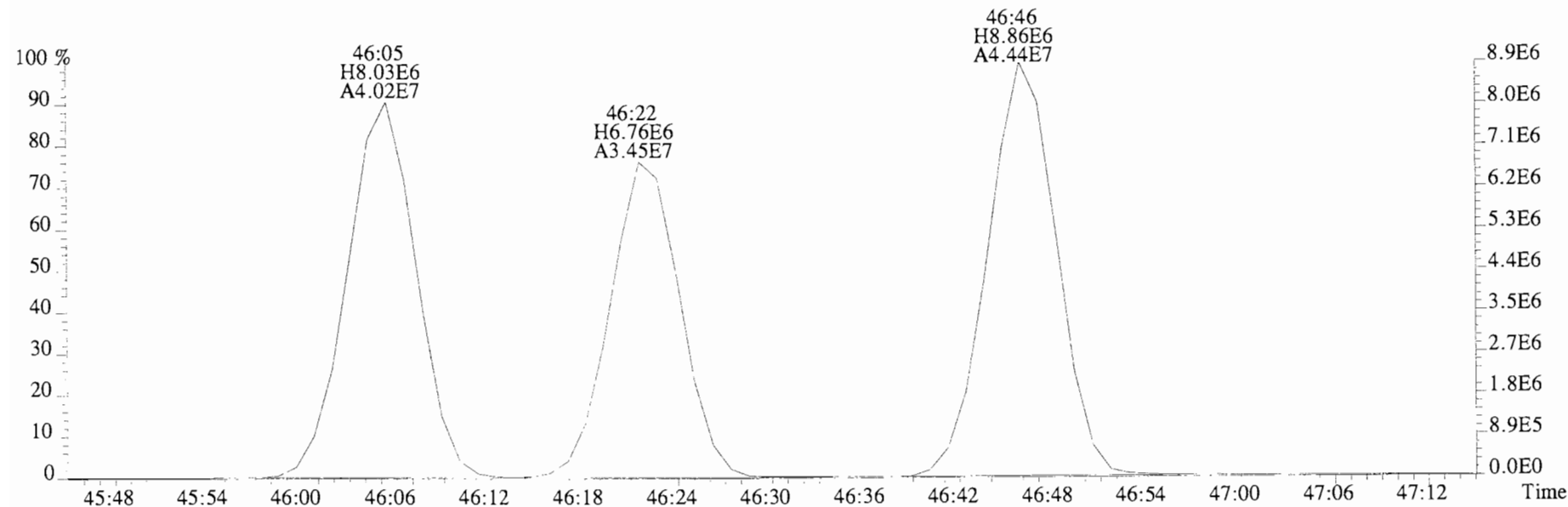
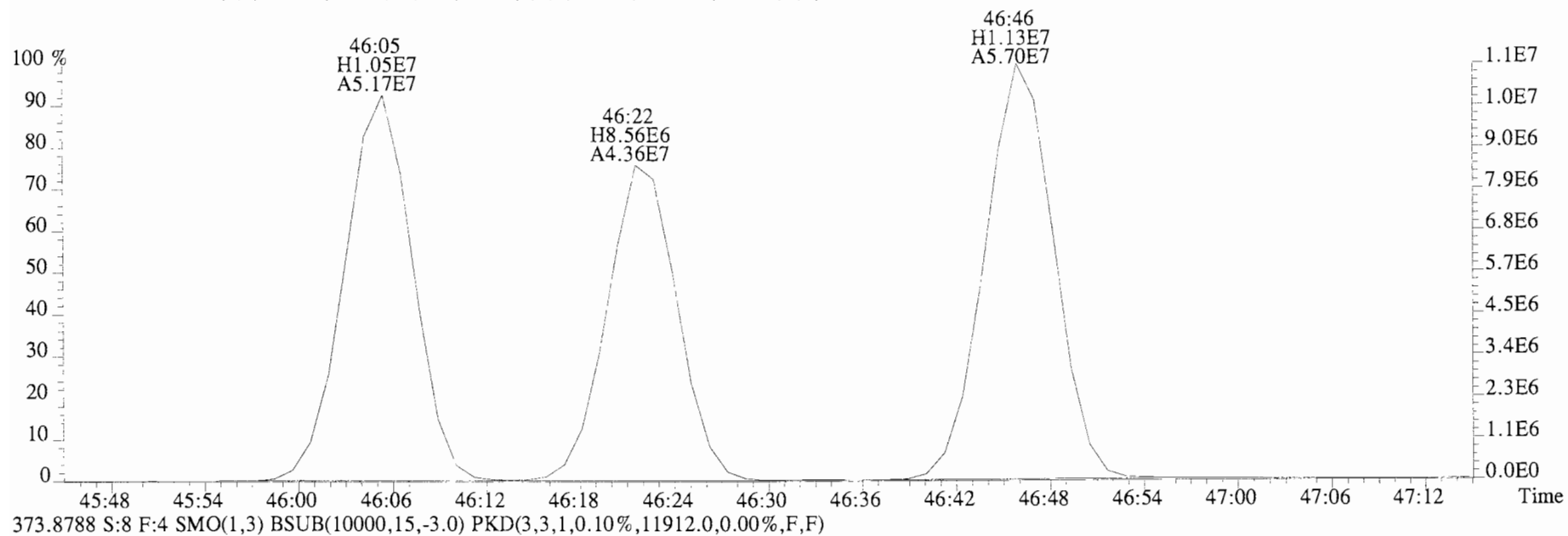
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16504.0,0.00%,F,F)



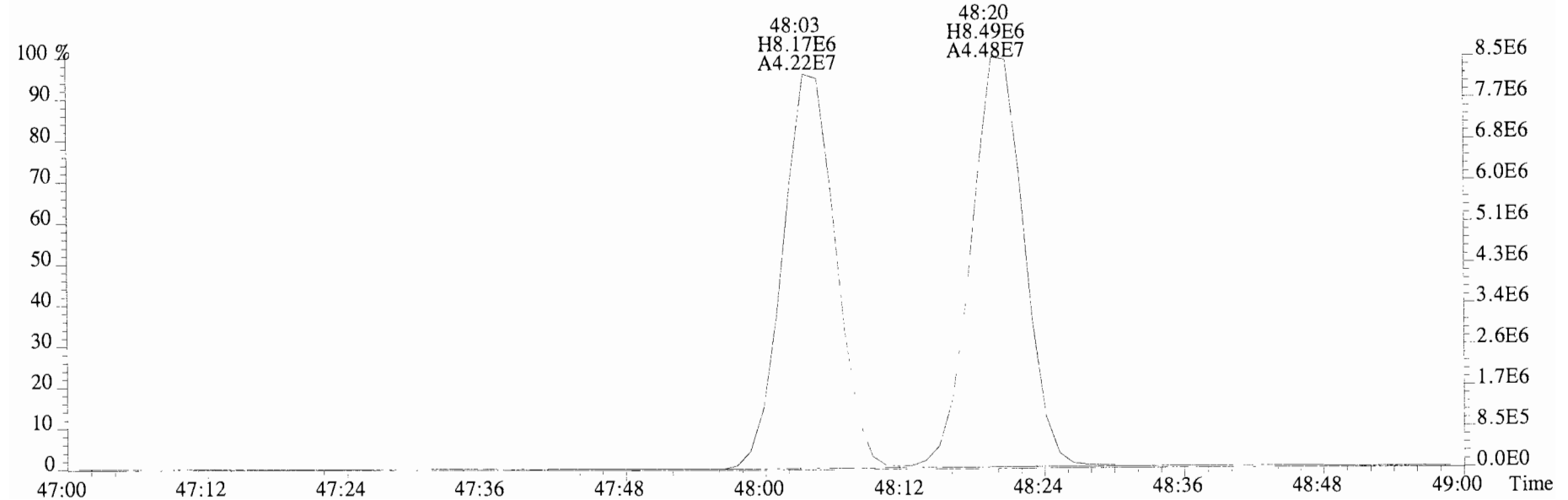
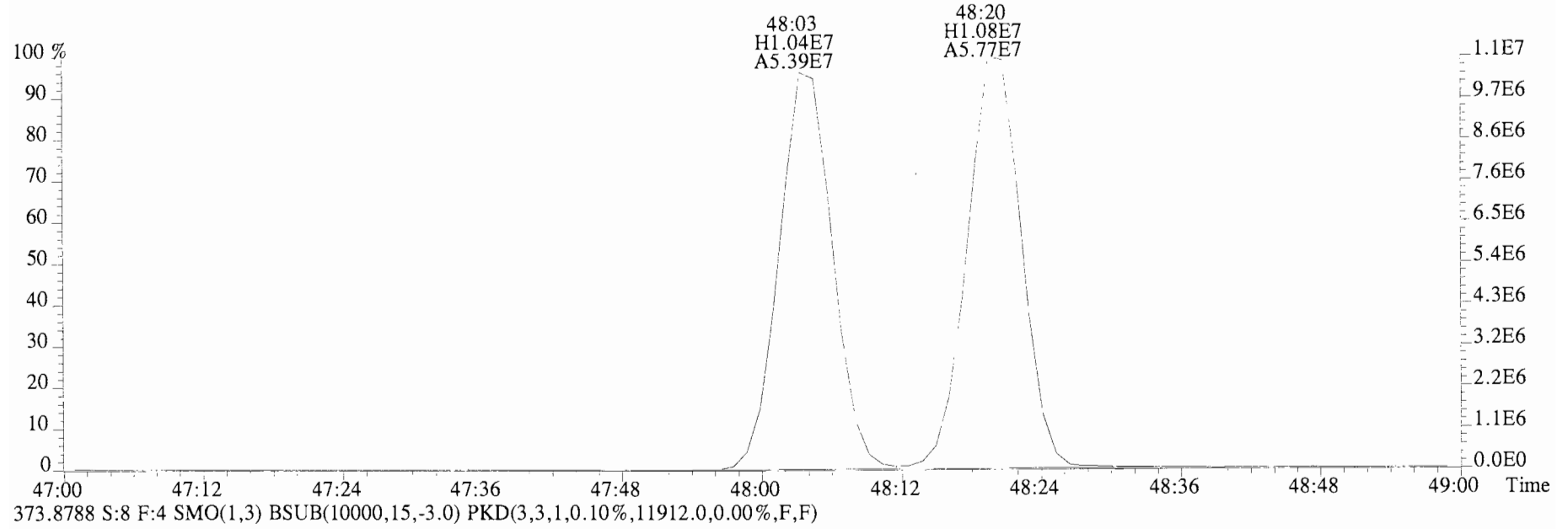
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11912.0,0.00%,F,F)



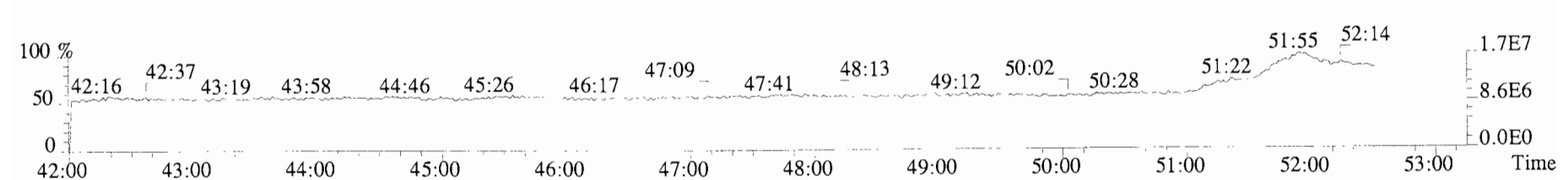
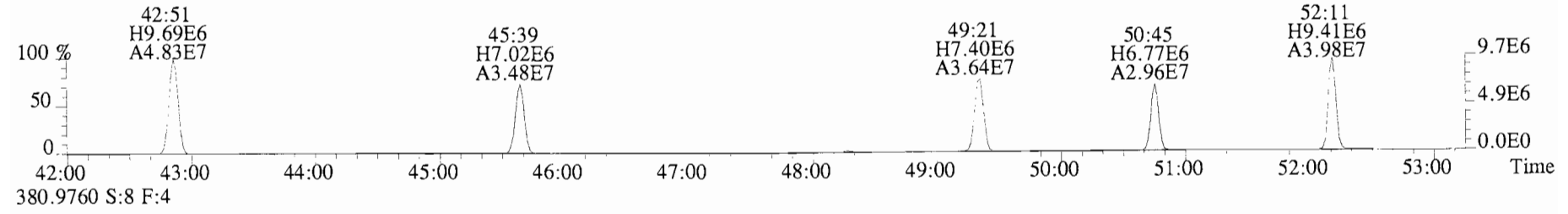
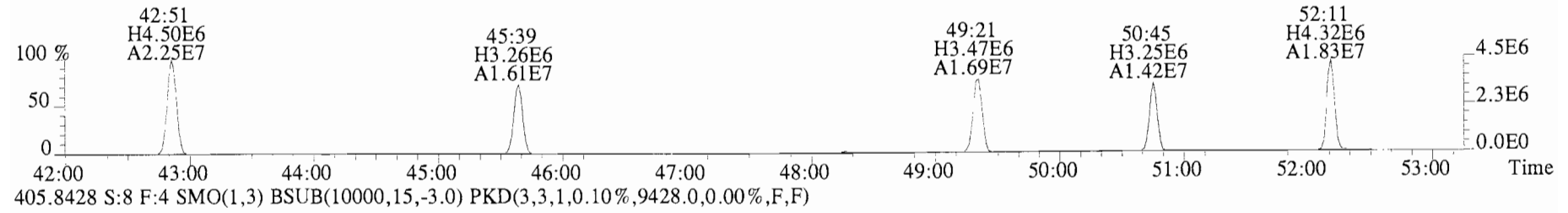
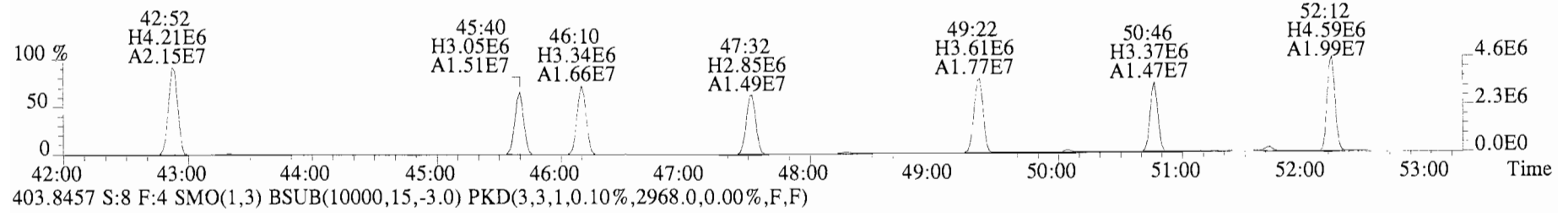
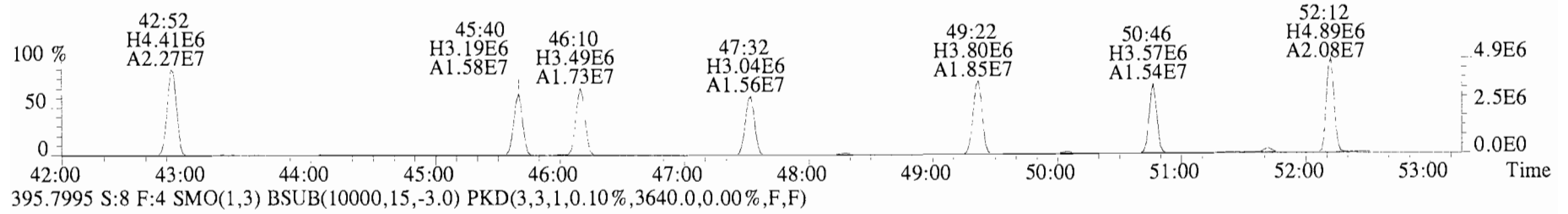
File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16504.0,0.00%,F,F)



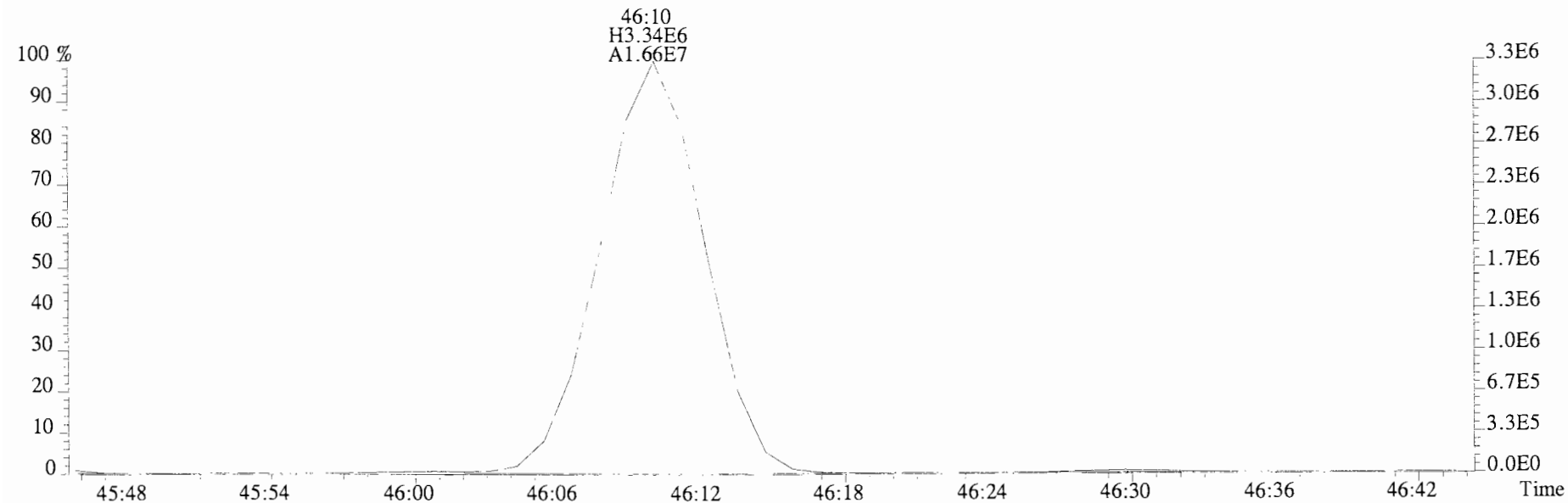
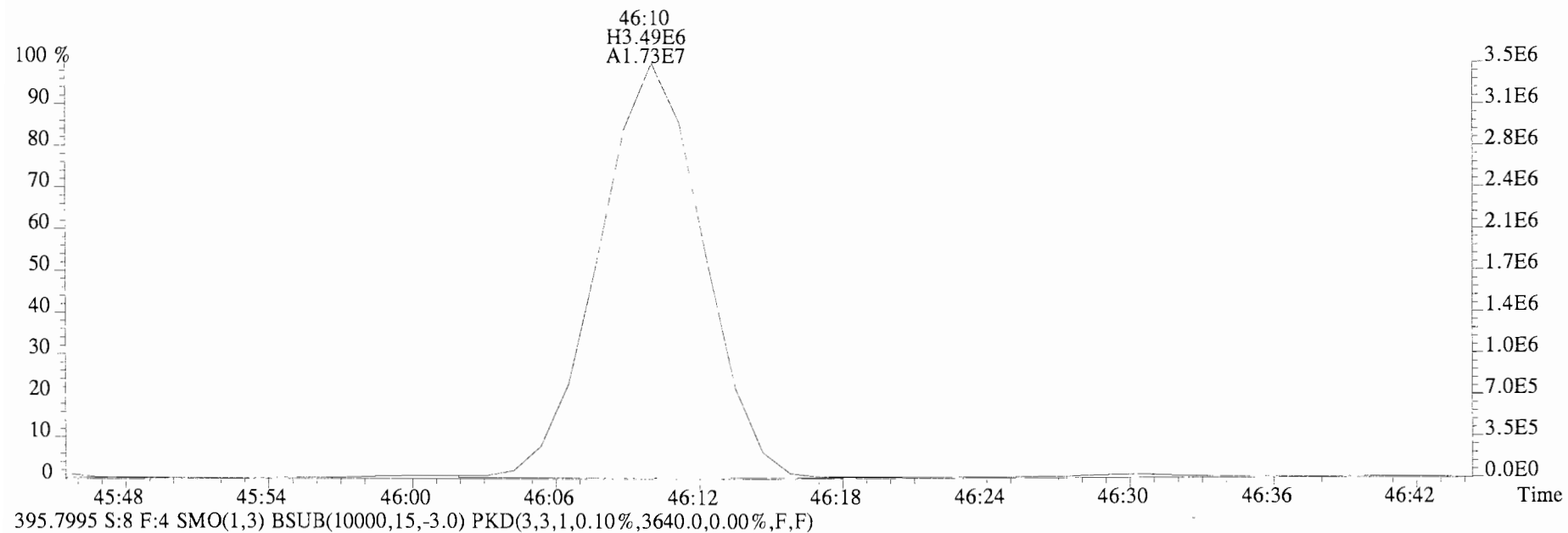
File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
371.8817 S:8 F:4 SMO(1.3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16504.0,0.00%,F,F)



File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5784.0,0.00%,F,F)

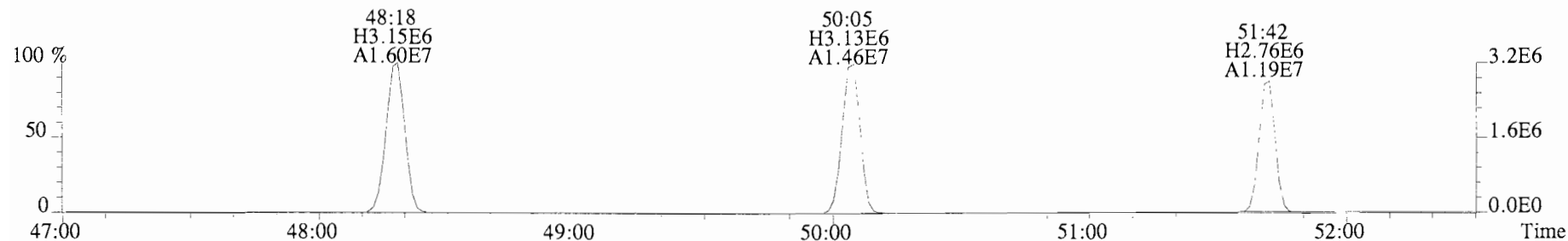


File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-1 PCB SSS 13C2017 Exp:PCB\_ZB1  
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5784.0,0.00%,F,F)

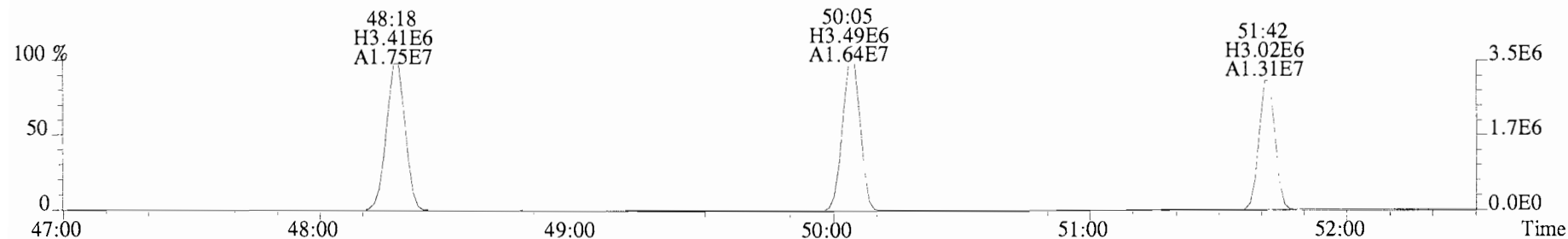




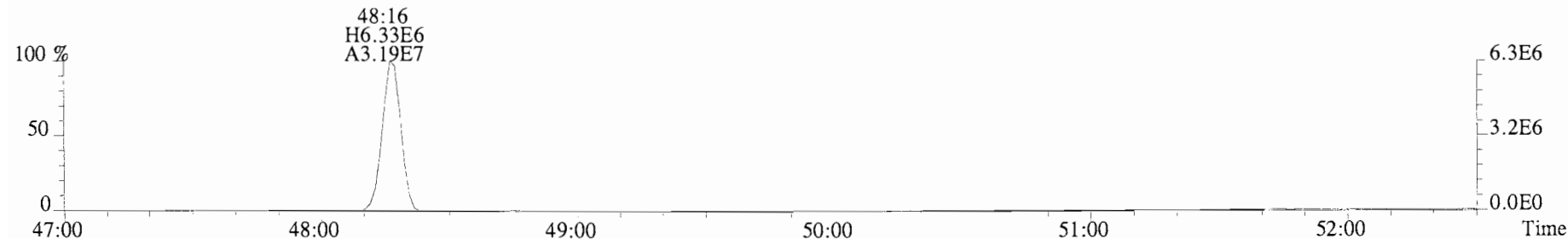
File:140620E1 #1-546 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



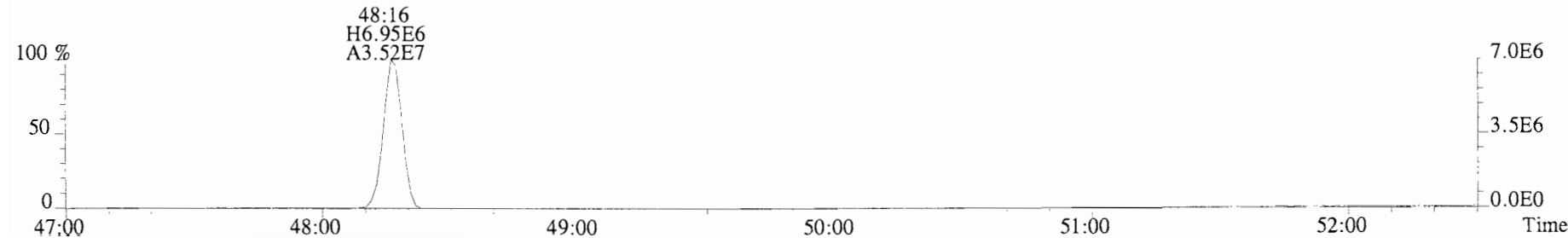
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



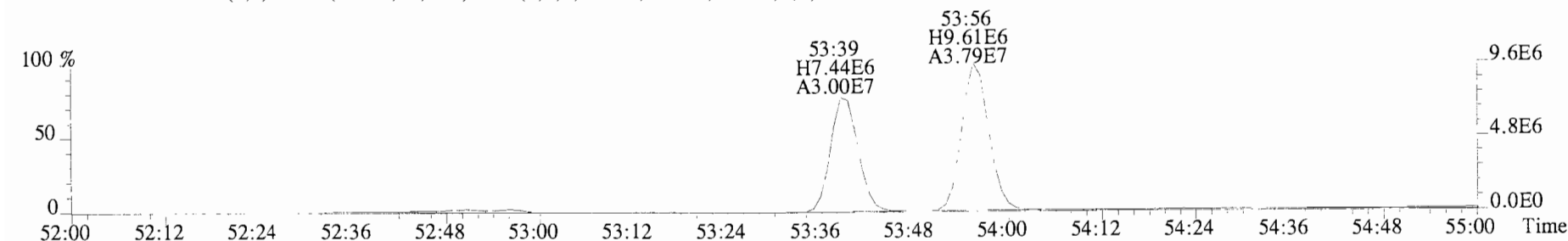
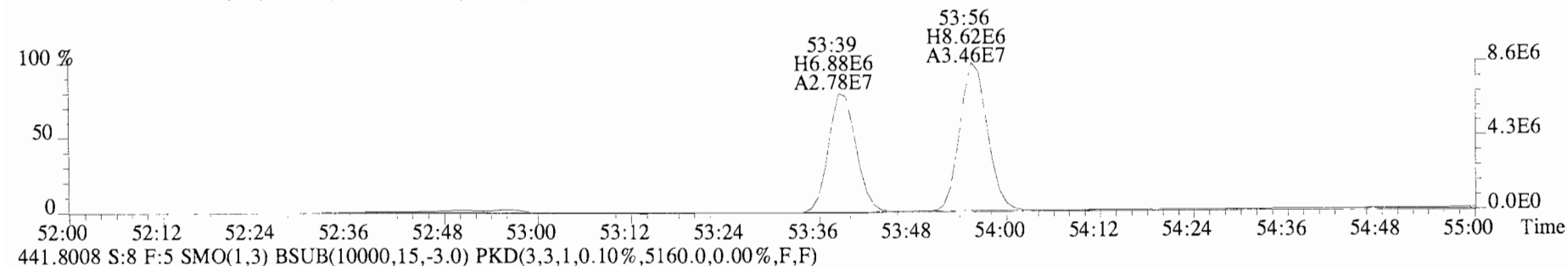
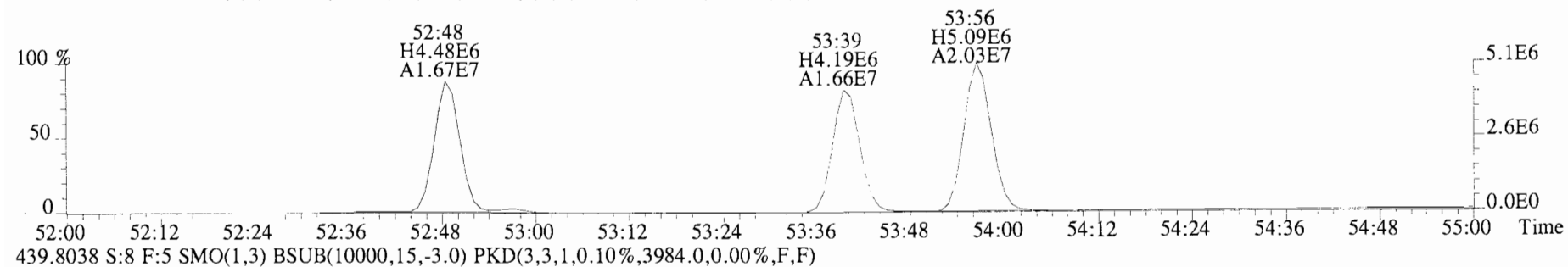
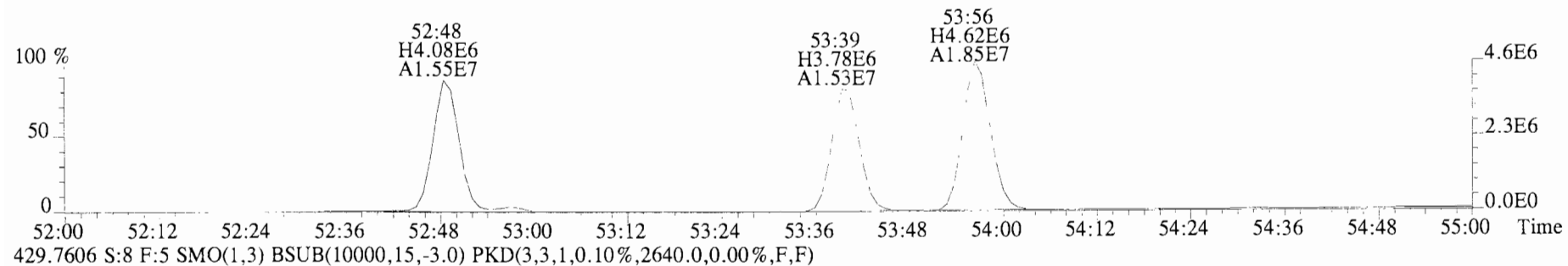
439.8038 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1412.0,0.00%,F,F)



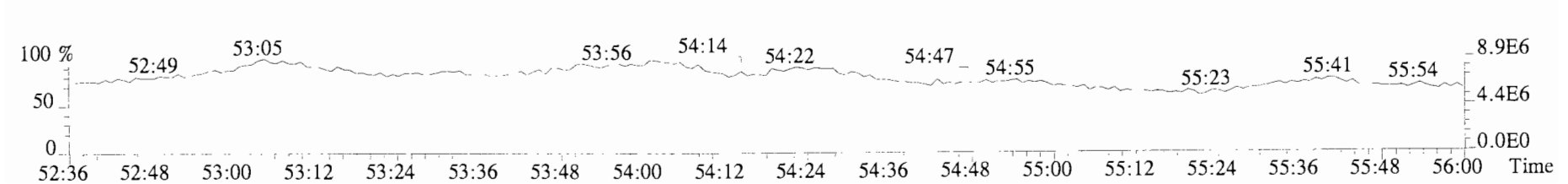
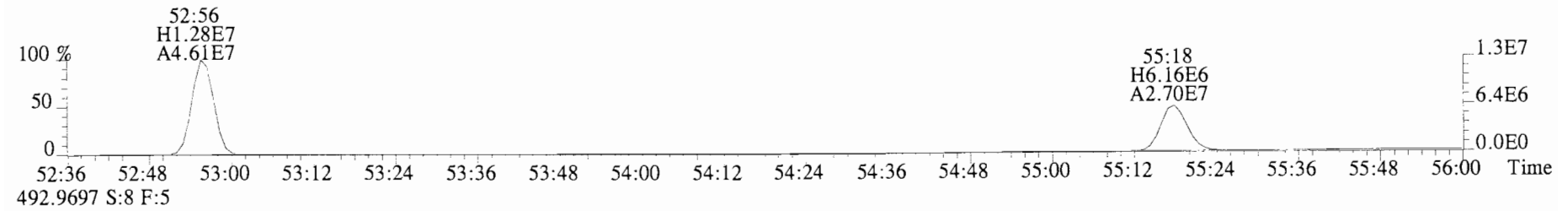
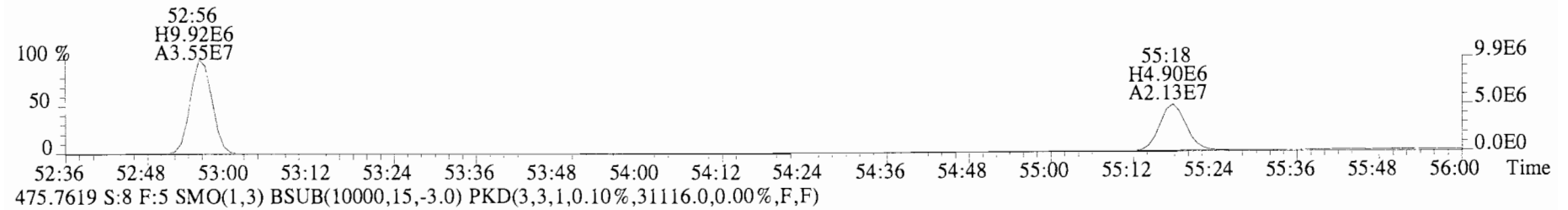
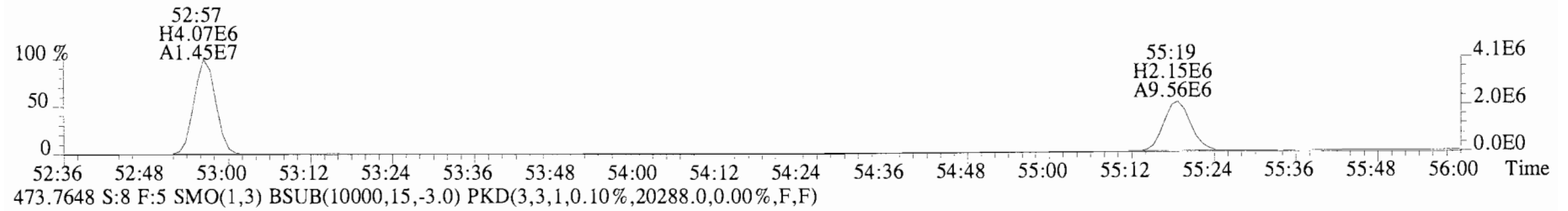
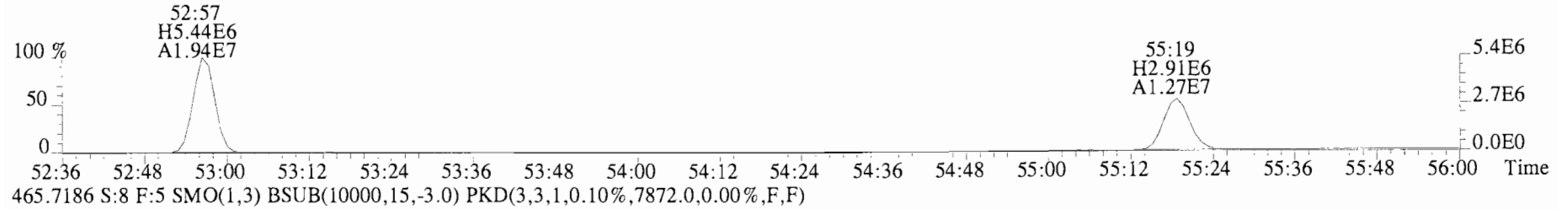
441.8008 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



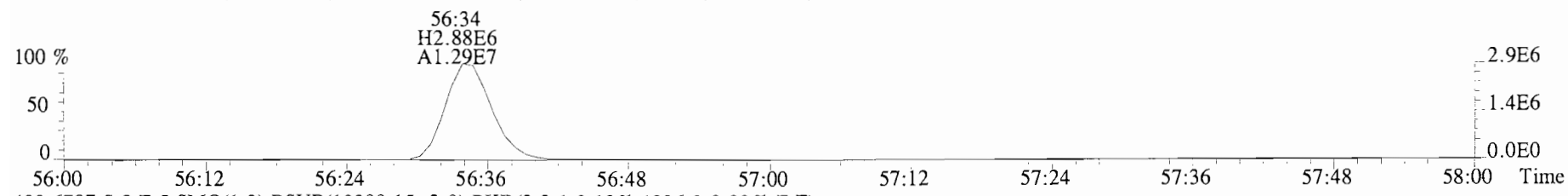
File:140620E1 #1-435 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2660.0,0.00%,F,F)



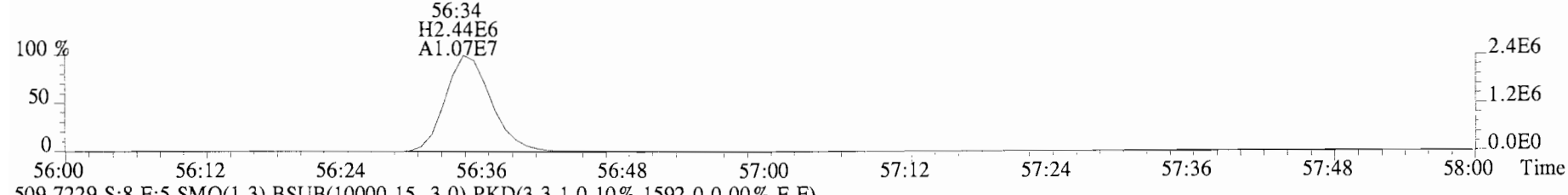
File:140620E1 #1-435 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text: Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12024.0,0.00%,F,F)



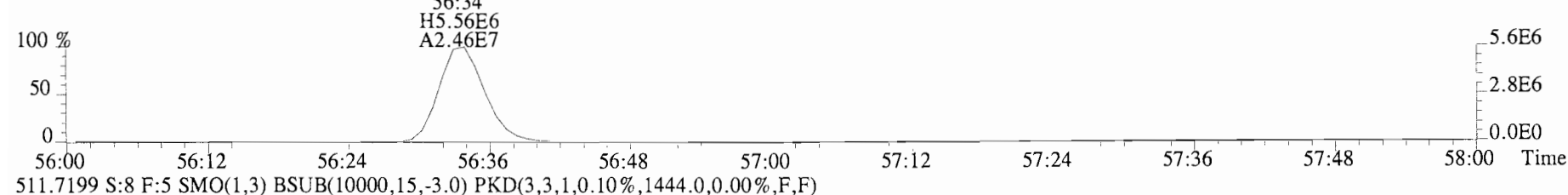
File:140620E1 #1-435 Acq:20-JUN-2014 15:57:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:ST140620E1-7 PCB SSS 13C2017 Exp:PCB\_ZB1  
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1264.0,0.00%,F,F)



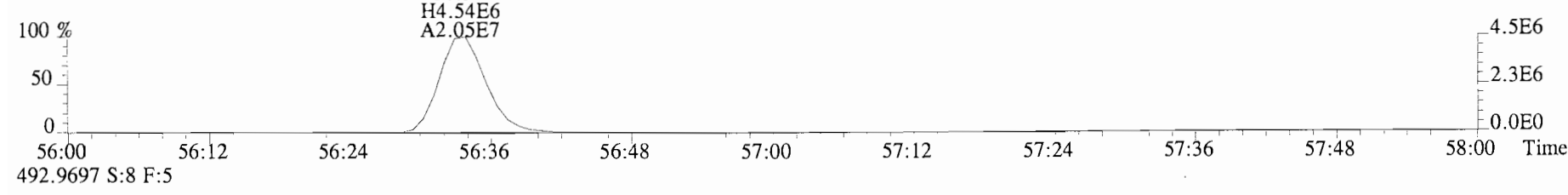
499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1236.0,0.00%,F,F)



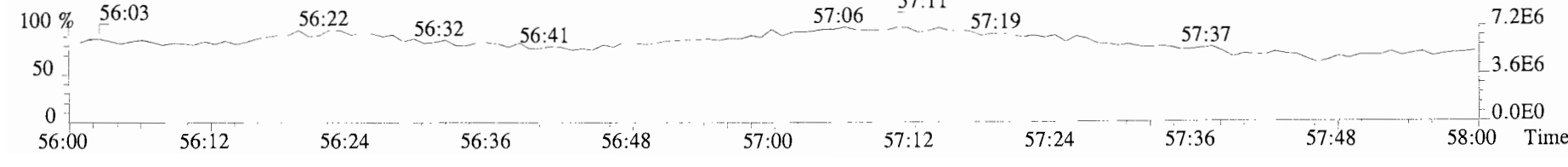
509.7229 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



511.7199 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



492.9697 S:8 F:5



Run: 140623E2

Analyte: PCBNEW

Cal: PCBVG8-6-23-14

Inst. ID: VG R

Data filename: 140623E2

			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	1.19	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

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

13C-PCB-194	0.80	1.04 %	0.79	0.81	0.80	0.79	0.80	0.79
13C-PCB-208	1.08	1.09 %	1.09	1.09	1.09	1.08	1.07	1.07
13C-PCB-206	0.65	2.52 %	0.65	0.66	0.65	0.65	0.67	0.62
13C-PCB-209	0.61	3.41 %	0.62	0.62	0.63	0.59	0.63	0.58
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.02	1.30 %	1.02	1.02	1.02	1.00	1.01	1.04
13C-PCB-178	0.61	3.59 %	0.64	0.63	0.61	0.62	0.60	0.58
13C-PCB-79	1.10	2.04 %	1.11	1.12	1.11	1.12	1.09	1.06
13C-PCB-178	0.90	2.70 %	0.86	0.90	0.92	0.93	0.89	0.90

Filename: 140623E2 S: 1      Acquired: 23-JUN-14 11:41:57  
 Run: 140623E2    Analyte:            ICal: PCBVG8-6-23-14      Results: 140623E2  
 Sample text: ST140623E2-1 PCB CS0 14F1602

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	4.81e+05	2.67 y	16:24	-	1.04
2	Mono	PCB-2	0.25	5.03e+05	3.50 y	18:40	-	1.05
3	Mono	PCB-3	0.25	6.38e+05	2.83 y	18:54	-	1.34
4	Di	PCB-4/10	1.00	1.68e+06	1.64 y	20:13	-	1.53
5	Di	PCB-7/9	1.00	2.03e+06	1.59 y	21:57	-	1.22
6	Di	PCB-6	0.50	1.04e+06	1.77 y	22:34	-	1.25
7	Di	PCB-5/8	1.00	1.87e+06	1.60 y	22:59	-	1.13
8	Di	PCB-14	0.50	9.15e+05	1.73 y	24:03	-	1.05
9	Di	PCB-11	0.50	9.14e+05	1.60 y	25:13	-	1.05
10	Di	PCB-12/13	1.00	2.03e+06	1.71 y	25:37	-	1.17
11	Di	PCB-15	0.50	1.13e+06	1.70 y	25:55	-	1.29
12	Tri	PCB-19	0.25	2.77e+05	1.03 y	24:14	-	1.04
13	Tri	PCB-30	0.25	4.46e+05	1.08 y	25:06	-	1.67
14	Tri	PCB-18	0.25	2.82e+05	1.17 y	25:50	-	0.71
15	Tri	PCB-17	0.25	3.59e+05	0.95 y	26:01	-	0.90
16	Tri	PCB-24/27	0.50	9.03e+05	1.12 y	26:35	-	1.13
17	Tri	PCB-16/32	0.50	7.35e+05	1.02 y	27:05	-	0.92
18	Tri	PCB-34	0.25	4.46e+05	1.14 y	27:51	-	1.15
19	Tri	PCB-23	0.25	5.33e+05	1.13 y	27:57	-	1.38
20	Tri	PCB-29	0.25	4.32e+05	1.02 y	28:12	-	1.11
21	Tri	PCB-26	0.25	4.83e+05	0.94 y	28:24	-	1.25
22	Tri	PCB-25	0.25	5.38e+05	0.92 y	28:33	-	1.39
23	Tri	PCB-31	0.25	5.81e+05	0.96 y	28:55	-	1.50
24	Tri	PCB-28	0.25	7.03e+05	1.16 y	29:01	-	1.81
25	Tri	PCB-20/21/33	0.75	1.33e+06	1.03 y	29:38	-	1.15
26	Tri	PCB-22	0.25	5.26e+05	1.01 y	30:04	-	1.36
27	Tri	PCB-36	0.25	4.96e+05	1.00 y	30:41	-	1.36
28	Tri	PCB-39	0.25	4.79e+05	1.13 y	31:08	-	1.31
29	Tri	PCB-38	0.25	5.28e+05	1.17 y	31:55	-	1.44
30	Tri	PCB-35	0.25	5.13e+05	0.95 y	32:25	-	1.40
31	Tri	PCB-37	0.25	5.06e+05	1.03 y	32:51	-	1.38
32	Tetra	PCB-54	0.25	3.83e+05	0.67 y	27:55	-	1.18
33	Tetra	PCB-50	0.25	3.14e+05	0.72 y	29:04	-	0.97
34	Tetra	PCB-53	0.25	2.86e+05	0.85 y	29:42	-	1.06
35	Tetra	PCB-51	0.25	2.57e+05	0.85 y	30:03	-	0.95
36	Tetra	PCB-45	0.25	2.55e+05	0.84 y	30:28	-	0.95
37	Tetra	PCB-46	0.25	2.42e+05	0.82 y	30:58	-	0.90
38	Tetra	PCB-52/69	0.50	6.62e+05	0.73 y	31:25	-	1.23
39	Tetra	PCB-73	0.25	3.88e+05	0.72 y	31:32	-	1.44
40	Tetra	PCB-43/49	0.50	5.73e+05	0.83 y	31:42	-	1.07

41	Tetra	PCB-47	0.25	3.18e+05	0.79 y	31:55	-	1.12
42	Tetra	PCB-48/75	0.50	7.61e+05	0.81 y	32:01	-	1.34
43	Tetra	PCB-65	0.25	3.48e+05	0.88 y	32:17	-	1.22
44	Tetra	PCB-62	0.25	4.17e+05	0.79 y	32:24	-	1.47
45	Tetra	PCB-44	0.25	2.83e+05	0.73 y	32:42	-	1.00
46	Tetra	PCB-42/59	0.50	6.84e+05	0.76 y	32:55	-	1.20
47	Tetra	PCB-41/64/71/72	1.00	1.41e+06	0.76 y	33:30	-	1.24
48	Tetra	PCB-68	0.25	4.05e+05	0.81 y	33:46	-	1.42
49	Tetra	PCB-40	0.25	1.96e+05	0.70 y	34:00	-	0.69
50	Tetra	PCB-57	0.25	3.33e+05	0.87 y	34:20	-	0.97
51	Tetra	PCB-67	0.25	4.09e+05	0.84 y	34:38	-	1.19

52	Tetra	PCB-58	0.25	3.10e+05	0.67 y	34:45	-	0.90
53	Tetra	PCB-63	0.25	3.84e+05	0.79 y	34:55	-	1.12
54	Tetra	PCB-74	0.25	4.62e+05	0.82 y	35:12	-	1.34
55	Tetra	PCB-61/70	0.50	6.62e+05	0.77 y	35:23	-	0.96
56	Tetra	PCB-76/66	0.50	7.64e+05	0.73 y	35:35	-	1.11
57	Tetra	PCB-80	0.25	4.01e+05	0.75 y	35:49	-	1.13
58	Tetra	PCB-55	0.25	3.54e+05	0.77 y	36:09	-	1.00
59	Tetra	PCB-56/60	0.50	7.14e+05	0.78 y	36:39	-	1.01
60	Tetra	PCB-79	0.25	3.94e+05	0.76 y	37:42	-	1.12
61	Tetra	PCB-78	0.25	4.28e+05	0.69 y	38:24	-	1.40
62	Tetra	PCB-81	0.25	4.55e+05	0.75 y	38:56	-	1.49
63	Tetra	PCB-77	0.25	3.79e+05	0.71 y	39:31	-	1.19
64	Penta	PCB-104	0.25	2.69e+05	1.51 y	32:34	-	1.13
65	Penta	PCB-96	0.25	2.62e+05	1.46 y	33:49	-	1.10
66	Penta	PCB-103	0.25	2.37e+05	1.63 y	34:21	-	0.99
67	Penta	PCB-100	0.25	2.32e+05	1.75 y	34:43	-	0.97
68	Penta	PCB-94	0.25	2.02e+05	1.62 y	35:10	-	1.17
69	Penta	PCB-95/98/102	0.75	6.38e+05	1.53 y	35:40	-	1.23
70	Penta	PCB-93	0.25	1.38e+05	1.68 y	35:48	-	0.80
71	Penta	PCB-88/91	0.50	3.63e+05	1.40 y	36:05	-	1.05
72	Penta	PCB-121	0.25	2.89e+05	1.74 y	36:10	-	1.66
73	Penta	PCB-84/92	0.50	4.09e+05	1.74 y	37:00	-	1.10
74	Penta	PCB-89	0.25	2.28e+05	1.35 y	37:12	-	1.23
75	Penta	PCB-90/101	0.50	4.11e+05	1.60 y	37:22	-	1.11
76	Penta	PCB-113	0.25	2.82e+05	1.48 y	37:38	-	1.52
77	Penta	PCB-99	0.25	2.22e+05	1.49 y	37:43	-	1.19
78	Penta	PCB-119	0.25	2.54e+05	1.74 y	38:11	-	1.51
79	Penta	PCB-108/112	0.50	4.22e+05	1.43 y	38:20	-	1.26
80	Penta	PCB-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



102	Hexa	PCB-136	0.25	2.45e+05	1.20 y	39:27	-	1.17
103	Hexa	PCB-148	0.25	1.45e+05	1.15 y	39:33	-	0.70
104	Hexa	PCB-154	0.25	1.77e+05	1.37 y	40:02	-	0.85
105	Hexa	PCB-151	0.25	1.79e+05	1.18 y	40:41	-	0.86
106	Hexa	PCB-135	0.25	1.86e+05	1.13 y	40:54	-	0.89
107	Hexa	PCB-144	0.25	1.47e+05	1.40 y	41:00	-	0.70
108	Hexa	PCB-147	0.25	1.67e+05	1.07 y	41:08	-	0.80
109	Hexa	PCB-139/149	0.50	3.29e+05	1.16 y	41:24	-	0.79
110	Hexa	PCB-140	0.25	1.47e+05	1.10 y	41:35	-	0.70
111	Hexa	PCB-134/143	0.50	4.01e+05	1.40 y	42:01	-	0.95
112	Hexa	PCB-133/142	0.50	3.65e+05	1.40 y	42:19	-	0.86

113	Hexa	PCB-131	0.25	1.96e+05	1.21 y	42:29	-	0.92
114	Hexa	PCB-146/165	0.50	5.59e+05	1.30 y	42:42	-	1.32
115	Hexa	PCB-132/161	0.50	5.02e+05	1.30 y	42:57	-	1.19
116	Hexa	PCB-153	0.25	2.51e+05	1.25 y	43:06	-	1.19
117	Hexa	PCB-168	0.25	2.97e+05	1.27 y	43:20	-	1.40
118	Hexa	PCB-141	0.25	2.26e+05	1.36 y	43:51	-	1.16
119	Hexa	PCB-137	0.25	2.10e+05	1.21 y	44:14	-	1.07
120	Hexa	PCB-130	0.25	2.06e+05	1.15 y	44:20	-	1.06
121	Hexa	PCB-138/163/164	0.75	7.59e+05	1.25 y	44:43	-	1.26
122	Hexa	PCB-158/160	0.50	5.00e+05	1.32 y	44:58	-	1.24
123	Hexa	PCB-129	0.25	1.71e+05	1.19 y	45:12	-	0.85
124	Hexa	PCB-166	0.25	2.74e+05	1.28 y	45:40	-	1.19
125	Hexa	PCB-159	0.25	2.53e+05	1.29 y	46:00	-	1.10
126	Hexa	PCB-128/162	0.50	5.15e+05	1.18 y	46:17	-	1.12
127	Hexa	PCB-167	0.25	2.86e+05	1.19 y	46:40	-	1.15
128	Hexa	PCB-156	0.25	2.51e+05	1.34 y	47:59	-	1.06
129	Hexa	PCB-157	0.25	3.21e+05	1.29 y	48:15	-	1.28
130	Hexa	PCB-169	0.25	3.10e+05	1.35 y	50:19	-	1.28
131	Hepta	PCB-188	0.25	2.77e+05	1.01 y	42:45	-	1.58
132	Hepta	PCB-184	0.25	2.81e+05	1.07 y	43:12	-	1.61
133	Hepta	PCB-179	0.25	2.22e+05	0.95 y	43:58	-	1.27
134	Hepta	PCB-176	0.25	2.82e+05	1.14 y	44:27	-	1.61
135	Hepta	PCB-186	0.25	2.95e+05	1.09 y	45:04	-	1.69
136	Hepta	PCB-178	0.25	1.81e+05	0.95 y	45:33	-	1.03
137	Hepta	PCB-175	0.25	1.83e+05	1.03 y	45:54	-	1.05
138	Hepta	PCB-182/187	0.50	4.48e+05	0.94 y	46:04	-	1.28
139	Hepta	PCB-183	0.25	2.33e+05	1.14 y	46:23	-	1.33
140	Hepta	PCB-185	0.25	2.42e+05	0.91 y	47:03	-	1.77
141	Hepta	PCB-174	0.25	1.84e+05	0.97 y	47:25	-	1.34
142	Hepta	PCB-181	0.25	1.71e+05	0.89 y	47:31	-	1.25
143	Hepta	PCB-177	0.25	1.62e+05	1.15 y	47:41	-	1.18
144	Hepta	PCB-171	0.25	1.96e+05	0.95 y	48:00	-	1.43
145	Hepta	PCB-173	0.25	1.34e+05	1.04 y	48:25	-	0.97
146	Hepta	PCB-172	0.25	1.79e+05	1.06 y	48:52	-	1.31
147	Hepta	PCB-192	0.25	2.08e+05	1.05 y	49:03	-	1.52
148	Hepta	PCB-180	0.25	1.86e+05	1.04 y	49:15	-	1.35
149	Hepta	PCB-193	0.25	2.48e+05	1.20 y	49:27	-	1.81
150	Hepta	PCB-191	0.25	2.37e+05	0.93 y	49:42	-	1.73
151	Hepta	PCB-170	0.25	1.67e+05	1.00 y	50:41	-	1.54
152	Hepta	PCB-190	0.25	2.32e+05	1.20 y	50:51	-	2.14
153	Hepta	PCB-189	0.25	2.21e+05	0.99 y	52:07	-	1.58
154	Octa	PCB-202	0.25	1.87e+05	0.90 y	48:11	-	1.09
155	Octa	PCB-201	0.25	1.91e+05	0.96 y	48:40	-	1.11
156	Octa	PCB-204	0.25	1.75e+05	0.89 y	48:50	-	1.02
157	Octa	PCB-197	0.25	1.86e+05	1.01 y	49:08	-	1.09
158	Octa	PCB-200	0.25	1.85e+05	1.02 y	49:59	-	1.08
159	Octa	PCB-198	0.25	1.27e+05	0.92 y	51:14	-	0.74
160	Octa	PCB-199	0.25	1.30e+05	0.87 y	51:21	-	0.76
161	Octa	PCB-196/203	0.50	2.45e+05	0.96 y	51:36	-	0.71
162	Octa	PCB-195	0.25	1.54e+05	0.94 y	52:45	-	1.15

163	Octa	PCB-194	0.25	1.77e+05	0.95 y	53:38	-	1.32
164	Octa	PCB-205	0.25	2.02e+05	0.89 y	53:56	-	1.51
165	Nona	PCB-208	0.25	1.76e+05	1.45 y	52:54	-	0.95
166	Nona	PCB-207	0.25	1.98e+05	1.16 y	53:13	-	1.07
167	Nona	PCB-206	0.25	1.21e+05	1.45 y	55:20	-	1.11
168	Deca	PCB-209	0.25	1.20e+05	1.18 y	56:37	-	1.15
169	Tot $\eta$	Total Mono-PCB	0.00	-	- n	-	-	1.15
170	Tot $\eta$	Total Di-PCB	0.00	-	- n	-	-	1.19

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

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

232	Octaπ	13C-PCB-205	100.00	6.77e+07	0.90 y	53:55	-	1.00
233	CRS	13C-PCB-79	100.00	1.36e+08	0.80 y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.71e+07	0.46 y	45:32	-	0.64
235	PS	13C-PCB-79	100.00	1.36e+08	0.80 y	37:41	-	1.11
236	PS	13C-PCB-178	100.00	4.71e+07	0.46 y	45:32	-	0.86

Filename: 140623E2 S: 2      Acquired: 23-JUN-14 12:45:53  
 Run: 140623E2    Analyte:            ICal: PCBVG8-6-23-14      Results: 140623E2  
 Sample text: ST140623E2-2 PCB CS1 14F1603

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1.00	1.92e+06	3.07 y	16:24	-	1.13
2	Mono	PCB-2	1.00	2.00e+06	3.10 y	18:41	-	1.12
3	Mono	PCB-3	1.00	2.45e+06	2.99 y	18:54	-	1.37
4	Di	PCB-4/10	4.00	6.76e+06	1.61 y	20:14	-	1.54
5	Di	PCB-7/9	4.00	7.85e+06	1.66 y	21:57	-	1.17
6	Di	PCB-6	2.00	4.27e+06	1.72 y	22:35	-	1.28
7	Di	PCB-5/8	4.00	7.47e+06	1.65 y	22:59	-	1.12
8	Di	PCB-14	2.00	3.76e+06	1.62 y	24:03	-	1.09
9	Di	PCB-11	2.00	3.76e+06	1.61 y	25:13	-	1.09
10	Di	PCB-12/13	4.00	8.12e+06	1.62 y	25:37	-	1.17
11	Di	PCB-15	2.00	4.22e+06	1.64 y	25:55	-	1.22
12	Tri	PCB-19	1.00	1.05e+06	1.10 y	24:15	-	1.01
13	Tri	PCB-30	1.00	1.69e+06	1.10 y	25:06	-	1.64
14	Tri	PCB-18	1.00	1.19e+06	1.03 y	25:51	-	0.79
15	Tri	PCB-17	1.00	1.36e+06	1.06 y	26:01	-	0.90
16	Tri	PCB-24/27	2.00	3.54e+06	1.03 y	26:35	-	1.17
17	Tri	PCB-16/32	2.00	2.81e+06	1.04 y	27:05	-	0.93
18	Tri	PCB-34	1.00	1.77e+06	1.02 y	27:52	-	1.19
19	Tri	PCB-23	1.00	1.91e+06	1.05 y	27:58	-	1.28
20	Tri	PCB-29	1.00	1.69e+06	1.03 y	28:13	-	1.13
21	Tri	PCB-26	1.00	1.83e+06	1.06 y	28:25	-	1.23
22	Tri	PCB-25	1.00	1.86e+06	1.03 y	28:35	-	1.25
23	Tri	PCB-31	1.00	1.92e+06	1.03 y	28:55	-	1.29
24	Tri	PCB-28	1.00	2.63e+06	1.05 y	29:02	-	1.76
25	Tri	PCB-20/21/33	3.00	4.78e+06	1.06 y	29:38	-	1.07
26	Tri	PCB-22	1.00	1.85e+06	1.03 y	30:05	-	1.24
27	Tri	PCB-36	1.00	1.58e+06	0.96 y	30:41	-	1.16
28	Tri	PCB-39	1.00	1.53e+06	1.03 y	31:09	-	1.12
29	Tri	PCB-38	1.00	1.71e+06	0.96 y	31:56	-	1.25
30	Tri	PCB-35	1.00	1.61e+06	1.02 y	32:27	-	1.18
31	Tri	PCB-37	1.00	1.78e+06	0.99 y	32:53	-	1.30
32	Tetra	PCB-54	1.00	1.33e+06	0.85 y	27:56	-	1.06
33	Tetra	PCB-50	1.00	1.04e+06	0.83 y	29:04	-	0.83
34	Tetra	PCB-53	1.00	1.06e+06	0.75 y	29:43	-	1.05
35	Tetra	PCB-51	1.00	1.07e+06	0.77 y	30:03	-	1.06
36	Tetra	PCB-45	1.00	8.56e+05	0.81 y	30:29	-	0.85
37	Tetra	PCB-46	1.00	8.89e+05	0.82 y	30:58	-	0.89
38	Tetra	PCB-52/69	2.00	2.58e+06	0.75 y	31:26	-	1.29
39	Tetra	PCB-73	1.00	1.30e+06	0.82 y	31:33	-	1.30
40	Tetra	PCB-43/49	2.00	2.01e+06	0.79 y	31:43	-	1.01
41	Tetra	PCB-47	1.00	1.15e+06	0.76 y	31:55	-	1.10

42	Tetra	PCB-48/75	2.00	2.58e+06	0.79 y	32:02	-	1.24
43	Tetra	PCB-65	1.00	1.36e+06	0.70 y	32:18	-	1.30
44	Tetra	PCB-62	1.00	1.15e+06	0.75 y	32:25	-	1.10
45	Tetra	PCB-44	1.00	9.43e+05	0.71 y	32:42	-	0.90
46	Tetra	PCB-42/59	2.00	2.48e+06	0.73 y	32:56	-	1.19
47	Tetra	PCB-41/64/71/72	4.00	5.23e+06	0.81 y	33:31	-	1.25
48	Tetra	PCB-68	1.00	1.41e+06	0.83 y	33:46	-	1.35
49	Tetra	PCB-40	1.00	7.66e+05	0.68 y	34:00	-	0.73
50	Tetra	PCB-57	1.00	1.23e+06	0.73 y	34:21	-	0.96
51	Tetra	PCB-67	1.00	1.43e+06	0.70 y	34:39	-	1.11
52	Tetra	PCB-58	1.00	1.22e+06	0.81 y	34:46	-	0.95



53	Tetra	PCB-63	1.00	1.23e+06	0.72 y	34:55	-	0.95
54	Tetra	PCB-74	1.00	1.56e+06	0.79 y	35:12	-	1.21
55	Tetra	PCB-61/70	2.00	2.47e+06	0.75 y	35:23	-	0.96
56	Tetra	PCB-76/66	2.00	2.68e+06	0.76 y	35:36	-	1.04
57	Tetra	PCB-80	1.00	1.62e+06	0.71 y	35:50	-	1.22
58	Tetra	PCB-55	1.00	1.32e+06	0.77 y	36:09	-	0.99
59	Tetra	PCB-56/60	2.00	2.80e+06	0.73 y	36:39	-	1.06
60	Tetra	PCB-79	1.00	1.42e+06	0.79 y	37:42	-	1.07
61	Tetra	PCB-78	1.00	1.49e+06	0.78 y	38:25	-	1.26
62	Tetra	PCB-81	1.00	1.56e+06	0.81 y	38:56	-	1.32
63	Tetra	PCB-77	1.00	1.28e+06	0.77 y	39:32	-	1.07
64	Penta	PCB-104	1.00	1.07e+06	1.55 y	32:35	-	1.18
65	Penta	PCB-96	1.00	1.05e+06	1.49 y	33:50	-	1.15
66	Penta	PCB-103	1.00	8.47e+05	1.59 y	34:21	-	0.93
67	Penta	PCB-100	1.00	8.14e+05	1.70 y	34:42	-	0.90
68	Penta	PCB-94	1.00	7.01e+05	1.52 y	35:10	-	1.08
69	Penta	PCB-95/98/102	3.00	2.40e+06	1.45 y	35:40	-	1.23
70	Penta	PCB-93	1.00	5.56e+05	1.74 y	35:48	-	0.85
71	Penta	PCB-88/91	2.00	1.45e+06	1.50 y	36:05	-	1.11
72	Penta	PCB-121	1.00	9.97e+05	1.56 y	36:12	-	1.53
73	Penta	PCB-84/92	2.00	1.39e+06	1.53 y	37:00	-	1.00
74	Penta	PCB-89	1.00	7.51e+05	1.52 y	37:13	-	1.07
75	Penta	PCB-90/101	2.00	1.52e+06	1.60 y	37:23	-	1.08
76	Penta	PCB-113	1.00	9.10e+05	1.52 y	37:37	-	1.30
77	Penta	PCB-99	1.00	1.04e+06	1.45 y	37:42	-	1.49
78	Penta	PCB-119	1.00	9.16e+05	1.51 y	38:11	-	1.46
79	Penta	PCB-108/112	2.00	1.56e+06	1.62 y	38:20	-	1.25
80	Penta	PCB-83	1.00	9.33e+05	1.71 y	38:30	-	1.49
81	Penta	PCB-97	1.00	7.11e+05	1.49 y	38:42	-	1.13
82	Penta	PCB-86	1.00	5.14e+05	1.35 y	38:51	-	0.82
83	Penta	PCB-87/117/125	3.00	2.83e+06	1.57 y	38:57	-	1.50
84	Penta	PCB-111/115	2.00	2.06e+06	1.59 y	39:08	-	1.64
85	Penta	PCB-85/116	2.00	1.52e+06	1.65 y	39:16	-	1.21
86	Penta	PCB-120	1.00	1.06e+06	1.54 y	39:29	-	1.69
87	Penta	PCB-110	1.00	9.43e+05	1.47 y	39:38	-	1.50
88	Penta	PCB-82	1.00	6.04e+05	1.60 y	40:16	-	0.75
89	Penta	PCB-124	1.00	1.13e+06	1.50 y	40:56	-	1.40
90	Penta	PCB-107/109	2.00	2.00e+06	1.63 y	41:05	-	1.24
91	Penta	PCB-123	1.00	9.34e+05	1.64 y	41:15	-	1.16
92	Penta	PCB-106/118	2.00	1.94e+06	1.53 y	41:27	-	1.13
93	Penta	PCB-114	1.00	1.25e+06	1.49 y	42:06	-	1.31
94	Penta	PCB-122	1.00	1.07e+06	1.65 y	42:14	-	1.12
95	Penta	PCB-105	1.00	1.23e+06	1.59 y	42:58	-	1.28
96	Penta	PCB-127	1.00	1.38e+06	1.64 y	43:18	-	1.31
97	Penta	PCB-126	1.00	1.08e+06	1.55 y	45:12	-	1.16
98	Hexa	PCB-155	1.00	8.37e+05	1.10 y	36:56	-	1.11
99	Hexa	PCB-150	1.00	7.52e+05	1.14 y	38:12	-	0.99
100	Hexa	PCB-152	1.00	7.75e+05	1.29 y	38:40	-	1.02
101	Hexa	PCB-145	1.00	8.56e+05	1.22 y	39:08	-	1.13
102	Hexa	PCB-136	1.00	8.87e+05	1.27 y	39:27	-	1.17

103	Hexa	PCB-148	1.00	5.42e+05	1.31 y	39:33	-	0.72
104	Hexa	PCB-154	1.00	6.51e+05	1.13 y	40:02	-	0.86
105	Hexa	PCB-151	1.00	5.25e+05	1.34 y	40:41	-	0.69
106	Hexa	PCB-135	1.00	6.20e+05	1.16 y	40:53	-	0.82
107	Hexa	PCB-144	1.00	5.68e+05	1.14 y	41:00	-	0.75
108	Hexa	PCB-147	1.00	6.03e+05	1.39 y	41:08	-	0.80
109	Hexa	PCB-139/149	2.00	1.07e+06	1.35 y	41:24	-	0.71
110	Hexa	PCB-140	1.00	5.54e+05	1.12 y	41:35	-	0.73
111	Hexa	PCB-134/143	2.00	1.48e+06	1.32 y	42:02	-	0.89
112	Hexa	PCB-133/142	2.00	1.31e+06	1.23 y	42:19	-	0.78
113	Hexa	PCB-131	1.00	7.77e+05	1.25 y	42:29	-	0.93

114	Hexa	PCB-146/165	2.00	1.94e+06	1.26 y	42:42	-	1.16
115	Hexa	PCB-132/161	2.00	1.76e+06	1.27 y	42:57	-	1.06
116	Hexa	PCB-153	1.00	1.11e+06	1.29 y	43:06	-	1.33
117	Hexa	PCB-168	1.00	1.18e+06	1.25 y	43:19	-	1.41
118	Hexa	PCB-141	1.00	8.76e+05	1.23 y	43:51	-	1.12
119	Hexa	PCB-137	1.00	7.99e+05	1.23 y	44:15	-	1.02
120	Hexa	PCB-130	1.00	7.15e+05	1.22 y	44:20	-	0.91
121	Hexa	PCB-138/163/164	3.00	2.94e+06	1.28 y	44:43	-	1.23
122	Hexa	PCB-158/160	2.00	2.07e+06	1.39 y	44:58	-	1.30
123	Hexa	PCB-129	1.00	6.52e+05	1.17 y	45:12	-	0.82
124	Hexa	PCB-166	1.00	1.08e+06	1.25 y	45:40	-	1.18
125	Hexa	PCB-159	1.00	9.95e+05	1.26 y	46:00	-	1.09
126	Hexa	PCB-128/162	2.00	1.90e+06	1.35 y	46:17	-	1.04
127	Hexa	PCB-167	1.00	1.19e+06	1.26 y	46:40	-	1.21
128	Hexa	PCB-156	1.00	1.01e+06	1.15 y	47:59	-	1.09
129	Hexa	PCB-157	1.00	1.13e+06	1.24 y	48:15	-	1.16
130	Hexa	PCB-169	1.00	9.84e+05	1.29 y	50:19	-	1.07
131	Hepta	PCB-188	1.00	1.07e+06	1.08 y	42:44	-	1.66
132	Hepta	PCB-184	1.00	1.07e+06	1.01 y	43:12	-	1.66
133	Hepta	PCB-179	1.00	9.11e+05	1.11 y	43:58	-	1.41
134	Hepta	PCB-176	1.00	9.38e+05	1.19 y	44:27	-	1.46
135	Hepta	PCB-186	1.00	8.65e+05	1.07 y	45:04	-	1.34
136	Hepta	PCB-178	1.00	6.76e+05	1.13 y	45:32	-	1.05
137	Hepta	PCB-175	1.00	6.57e+05	1.07 y	45:54	-	1.02
138	Hepta	PCB-182/187	2.00	1.61e+06	1.10 y	46:04	-	1.25
139	Hepta	PCB-183	1.00	7.65e+05	1.02 y	46:23	-	1.19
140	Hepta	PCB-185	1.00	8.43e+05	0.96 y	47:03	-	1.68
141	Hepta	PCB-174	1.00	6.52e+05	1.02 y	47:25	-	1.30
142	Hepta	PCB-181	1.00	6.66e+05	1.08 y	47:31	-	1.33
143	Hepta	PCB-177	1.00	6.16e+05	1.08 y	47:42	-	1.23
144	Hepta	PCB-171	1.00	7.73e+05	0.96 y	47:59	-	1.54
145	Hepta	PCB-173	1.00	5.56e+05	0.90 y	48:25	-	1.11
146	Hepta	PCB-172	1.00	8.39e+05	1.07 y	48:52	-	1.67
147	Hepta	PCB-192	1.00	8.60e+05	1.06 y	49:04	-	1.71
148	Hepta	PCB-180	1.00	6.37e+05	0.90 y	49:15	-	1.27
149	Hepta	PCB-193	1.00	8.28e+05	1.14 y	49:27	-	1.65
150	Hepta	PCB-191	1.00	8.11e+05	1.07 y	49:42	-	1.62
151	Hepta	PCB-170	1.00	6.14e+05	0.96 y	50:41	-	1.53
152	Hepta	PCB-190	1.00	8.22e+05	1.03 y	50:50	-	2.04
153	Hepta	PCB-189	1.00	7.94e+05	1.03 y	52:07	-	1.50
154	Octa	PCB-202	1.00	6.55e+05	1.00 y	48:12	-	1.05
155	Octa	PCB-201	1.00	7.12e+05	0.86 y	48:42	-	1.14
156	Octa	PCB-204	1.00	6.82e+05	0.95 y	48:50	-	1.10
157	Octa	PCB-197	1.00	6.44e+05	0.88 y	49:08	-	1.04
158	Octa	PCB-200	1.00	6.28e+05	0.92 y	49:59	-	1.01
159	Octa	PCB-198	1.00	4.28e+05	0.78 y	51:15	-	0.69
160	Octa	PCB-199	1.00	5.35e+05	0.89 y	51:21	-	0.86
161	Octa	PCB-196/203	2.00	9.29e+05	0.93 y	51:37	-	0.75
162	Octa	PCB-195	1.00	6.48e+05	0.85 y	52:45	-	1.18
163	Octa	PCB-194	1.00	6.56e+05	0.96 y	53:38	-	1.19

164	Octa	PCB-205	1.00	8.69e+05	0.98 y	53:56	-	1.58
165	Nona	PCB-208	1.00	6.83e+05	1.14 y	52:54	-	0.92
166	Nona	PCB-207	1.00	7.94e+05	1.46 y	53:12	-	1.07
167	Nona	PCB-206	1.00	4.60e+05	1.50 y	55:20	-	1.03
168	Deca	PCB-209	1.00	4.74e+05	1.30 y	56:37	-	1.12
169	Tot 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	Tetrη	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

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

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.		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: DMSDate: 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			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	3.37	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

Analyst: *Dms*

Reviewed

by

Analyst: \_\_\_\_\_

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Date: *6/24/14*

Date: \_\_\_\_\_





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											
13C-PCB-28	1.40e+08	1.06	y	0.93	29:01	1.004	0.999-1.009	98.7	98.7											
13C-PCB-32	1.39e+08	1.09	y	0.80	27:06	1.045	1.040-1.050	98.2	98.2											
13C-PCB-37	1.20e+08	1.07	y	0.84	32:52	1.137	1.131-1.143	94.4	94.4											
13C-PCB-47	1.02e+08	0.79	y	0.81	31:54	0.870	0.866-0.874	101	101											
13C-PCB-52	9.72e+07	0.80	y	0.77	31:24	0.857	0.853-0.861	101	101											
13C-PCB-54	1.23e+08	0.81	y	0.97	27:55	0.762	0.758-0.766	101	101											
13C-PCB-70	1.22e+08	0.78	y	1.00	35:25	0.966	0.961-0.971	97.6	97.6											
13C-PCB-77	1.14e+08	0.78	y	0.94	39:32	1.078	1.073-1.083	96.6	96.6											
13C-PCB-80	1.27e+08	0.80	y	1.03	35:49	0.977	0.972-0.982	98.0	98.0											
13C-PCB-81	1.12e+08	0.79	y	0.92	38:56	1.062	1.057-1.067	96.6	96.6											
13C-PCB-95	6.27e+07	1.59	y	0.74	35:43	0.913	0.908-0.918	99.4	99.4											
13C-PCB-97	5.89e+07	1.59	y	0.70	38:42	0.989	0.984-0.994	98.2	98.2											
13C-PCB-101	6.57e+07	1.54	y	0.78	37:23	0.956	0.951-0.961	98.6	98.6											
13C-PCB-104	8.52e+07	1.57	y	1.00	32:34	0.832	0.828-0.836	100.0	100.0											
13C-PCB-105	9.17e+07	1.60	y	1.37	42:58	0.929	0.924-0.934	96.9	96.9											
13C-PCB-114	9.33e+07	1.60	y	1.36	42:06	0.910	0.905-0.915	98.7	98.7											
13C-PCB-118	7.79e+07	1.58	y	0.96	41:26	1.059	1.054-1.064	95.4	95.4											
13C-PCB-123	7.37e+07	1.61	y	0.89	41:15	1.055	1.050-1.060	96.8	96.8											
13C-PCB-126	9.05e+07	1.58	y	1.31	45:12	0.977	0.972-0.982	99.9	99.9											
13C-PCB-127	1.00e+08	1.57	y	1.47	43:17	0.936	0.931-0.941	98.2	98.2											
13C-PCB-138	7.71e+07	1.29	y	1.10	44:42	0.966	0.961-0.971	101	101											
13C-PCB-141	7.45e+07	1.28	y	1.07	43:51	0.948	0.943-0.953	100.0	100.0											
13C-PCB-153	7.92e+07	1.29	y	1.15	43:07	0.932	0.927-0.937	99.7	99.7											
13C-PCB-155	7.08e+07	1.29	y	0.84	36:55	0.944	0.939-0.949	99.1	99.1											
13C-PCB-156	8.85e+07	1.29	y	1.30	47:58	1.037	1.032-1.042	98.4	98.4											
13C-PCB-157	9.20e+07	1.29	y	1.36	48:15	1.043	1.038-1.048	97.7	97.7											
13C-PCB-159	8.48e+07	1.27	y	1.25	45:59	0.994	0.989-0.999	98.0	98.0											
13C-PCB-167	9.22e+07	1.30	y	1.35	46:40	1.009	1.004-1.014	98.4	98.4											
13C-PCB-169	8.62e+07	1.27	y	1.29	50:19	1.088	1.083-1.093	96.7	96.7											
13C-PCB-170	3.66e+07	0.47	y	0.54	50:40	1.095	1.089-1.101	97.2	97.2											
13C-PCB-180	4.63e+07	0.47	y	0.68	49:15	1.065	1.060-1.070	97.7	97.7											
13C-PCB-188	6.40e+07	0.46	y	0.92	42:45	0.924	0.919-0.929	101	101											
13C-PCB-189	4.78e+07	0.47	y	0.72	52:07	1.126	1.120-1.132	96.3	96.3											
13C-PCB-194	5.16e+07	0.92	y	0.80	53:36	0.995	0.990-1.000	99.4	99.4											
13C-PCB-202	5.65e+07	0.94	y	0.84	48:11	1.041	1.036-1.046	97.2	97.2											
13C-PCB-206	4.23e+07	0.78	y	0.65	55:19	1.026	1.021-1.031	100.0	100.0											
13C-PCB-208	7.00e+07	0.78	y	1.08	52:53	0.981	0.976-0.986	99.5	99.5											
13C-PCB-209	3.85e+07	1.23	y	0.61	56:37	1.050	1.045-1.055	96.9	96.9											

Analyst: Dms

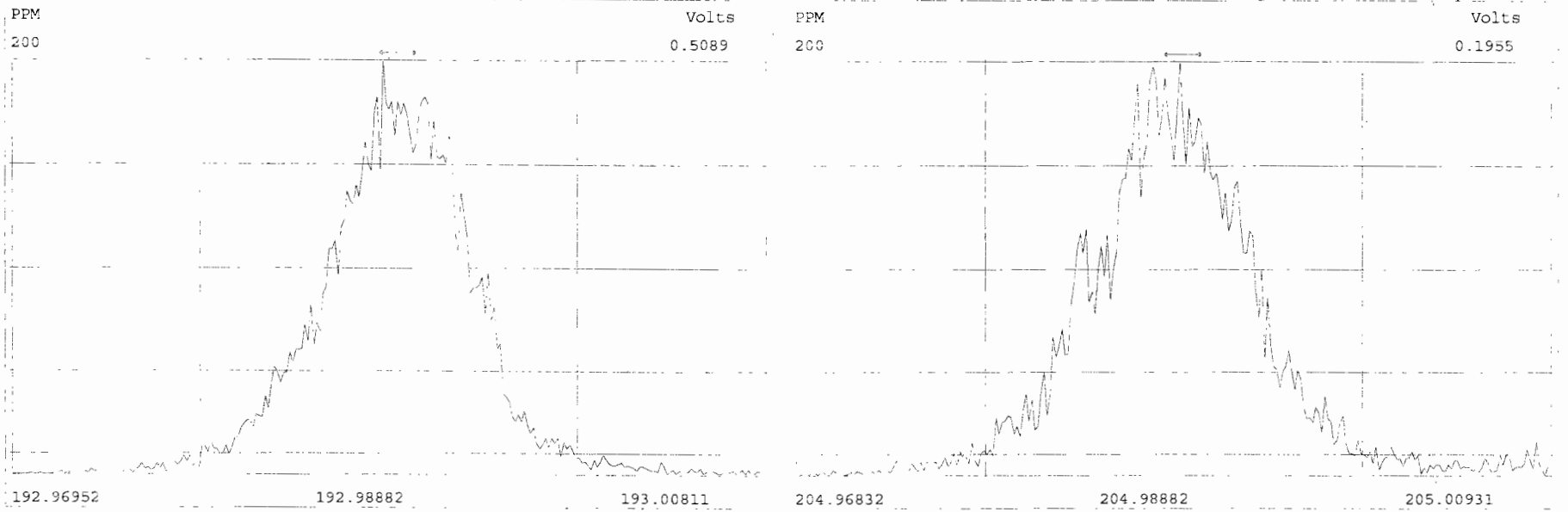
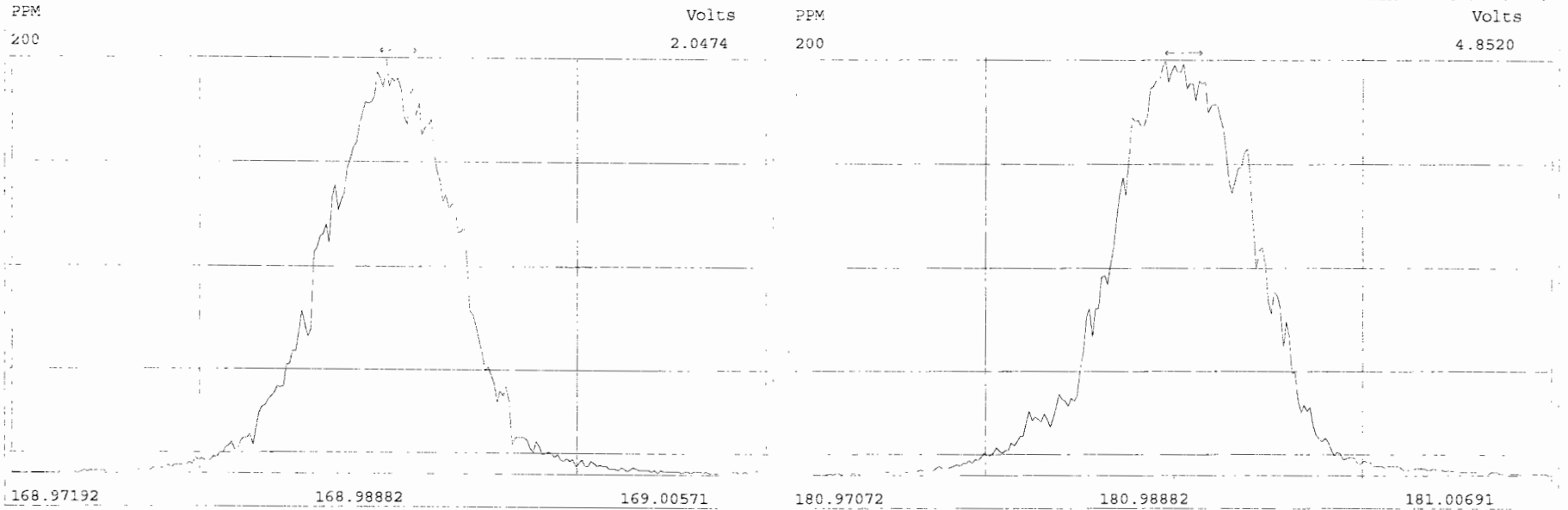
Date: 6/24/14

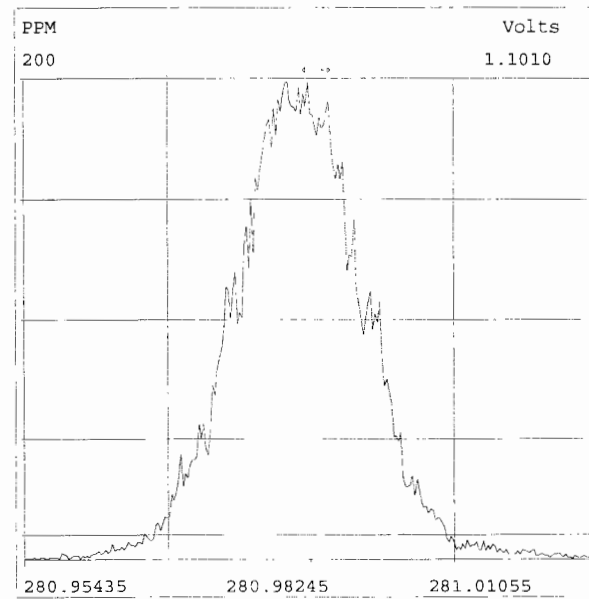
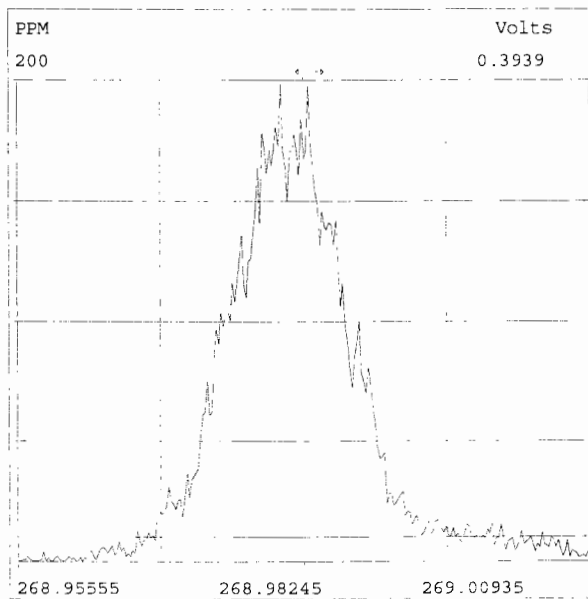
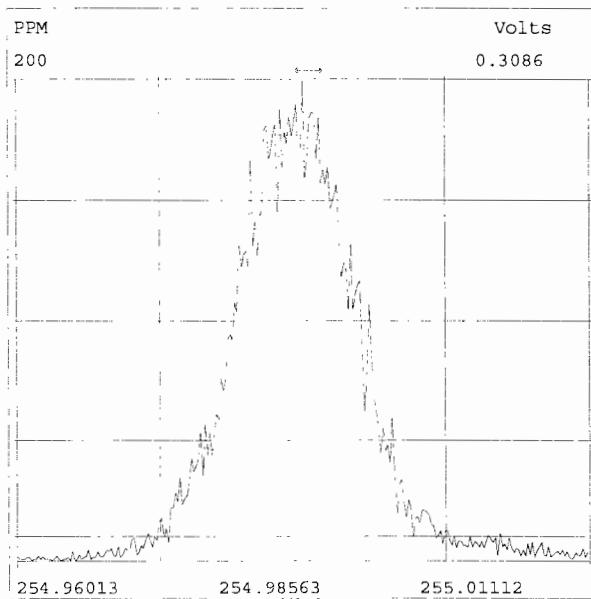
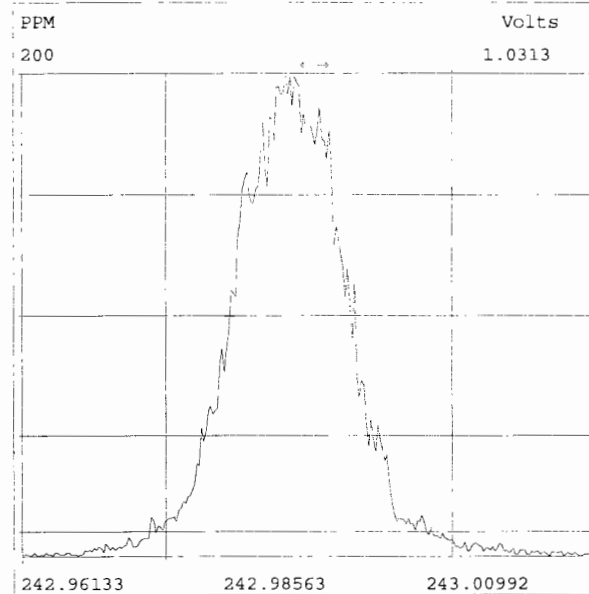
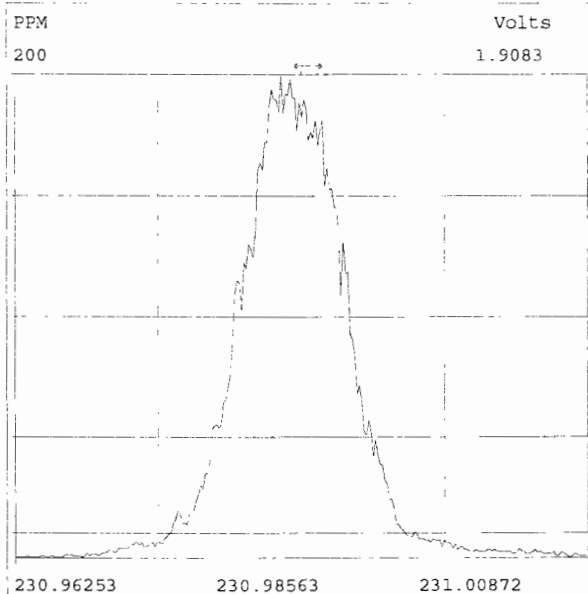
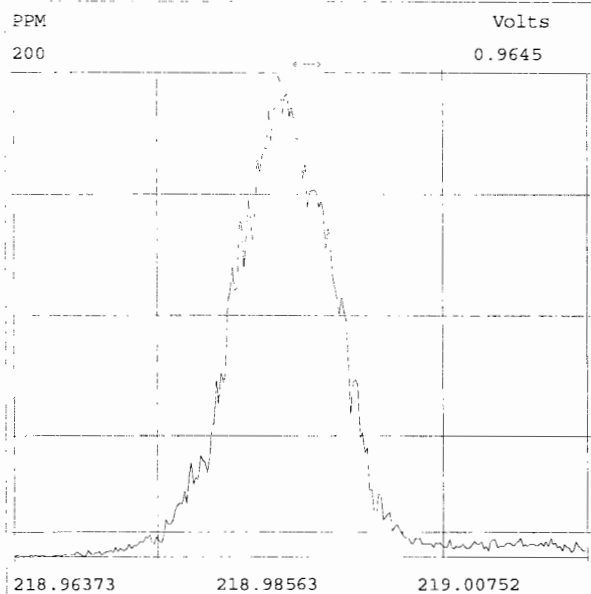
Vista Analytical Laboratory - Injection Log Run file: 140623E2 Instrument ID: VG-8 GC Column ID: ZB-1

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
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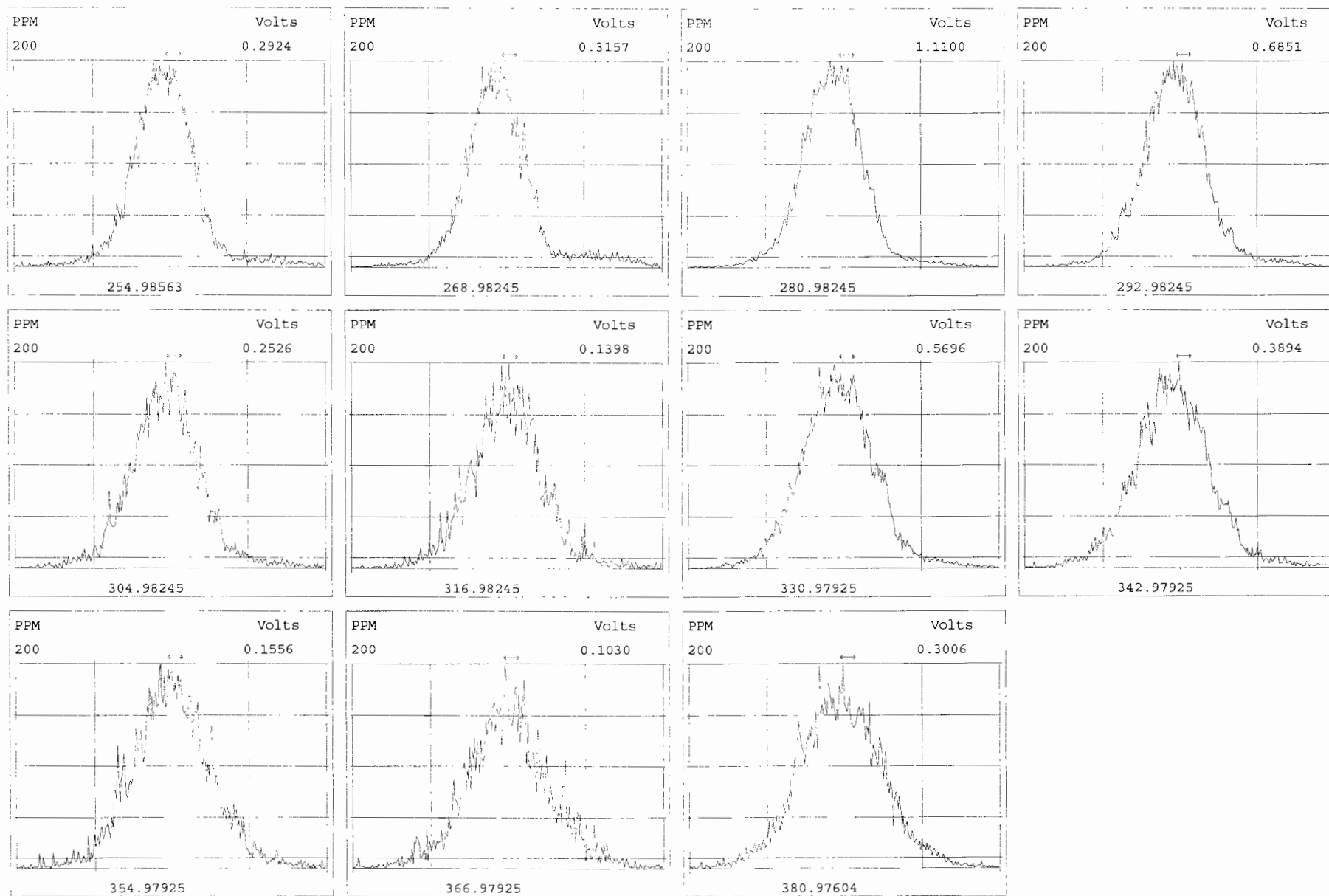
Peak Locate Examination:23-JUN-2014:11:40 File:140623E2

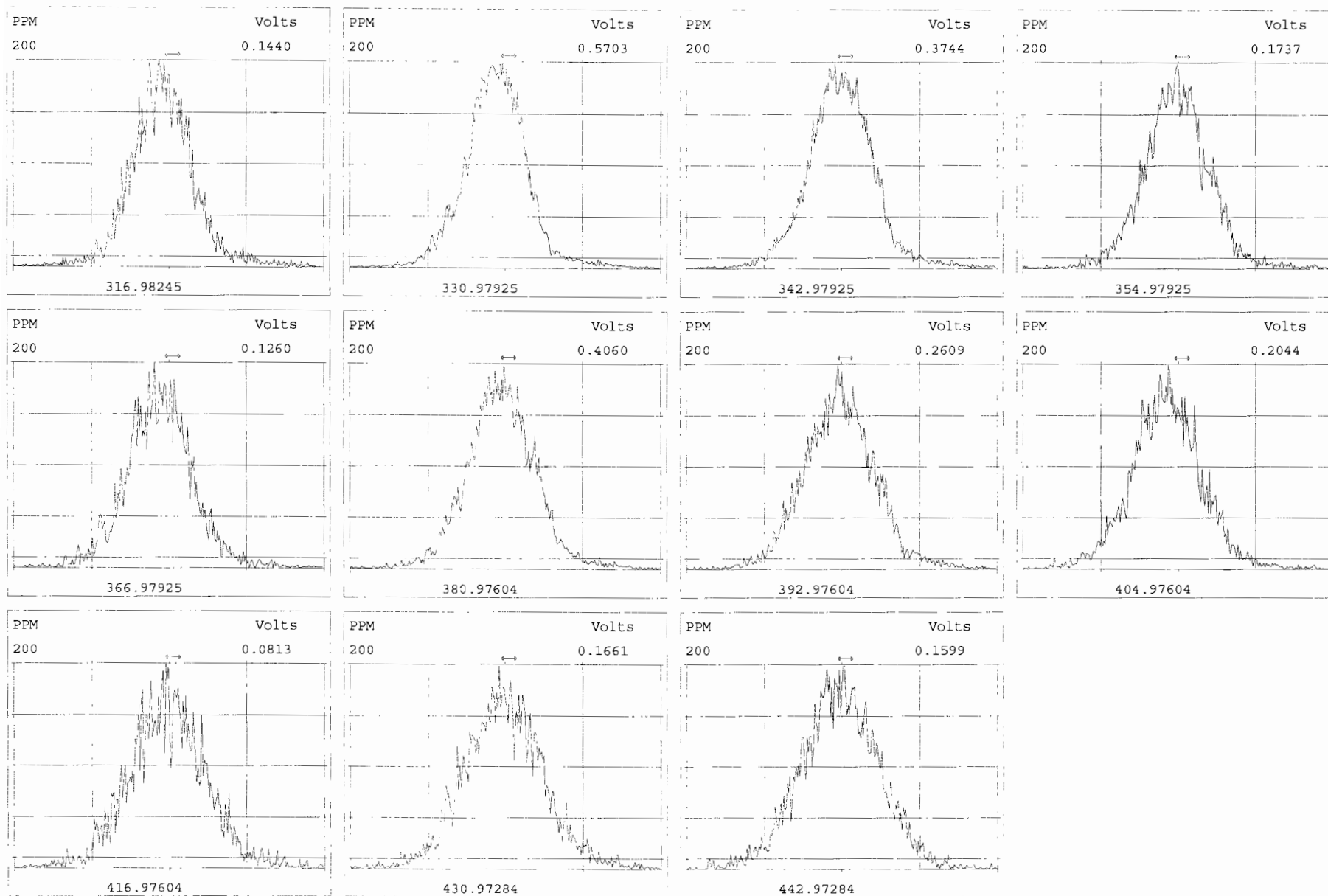
Experiment:PCB\_ZB1 Function:1 Reference:PFK



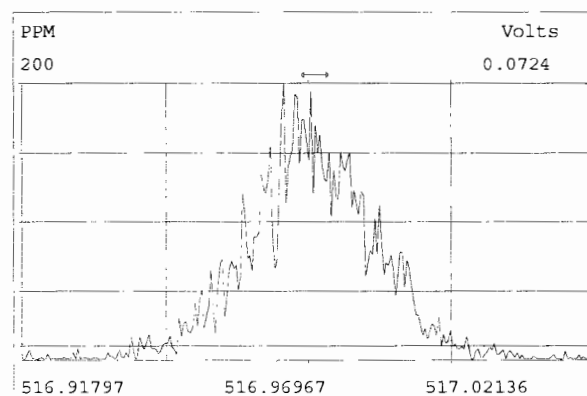
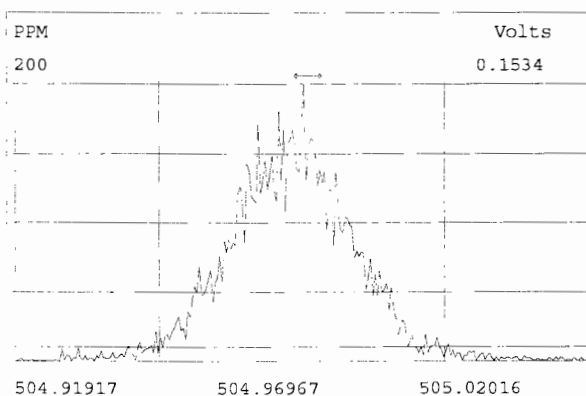
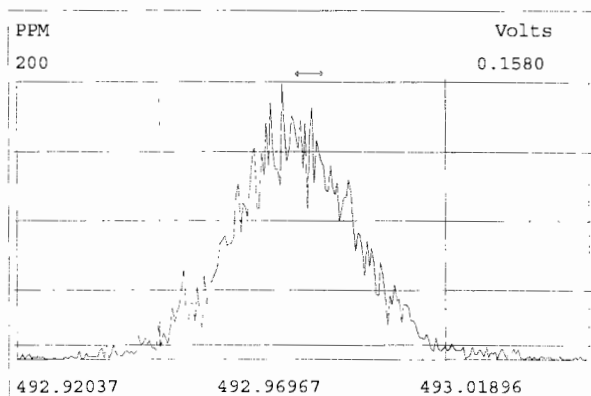
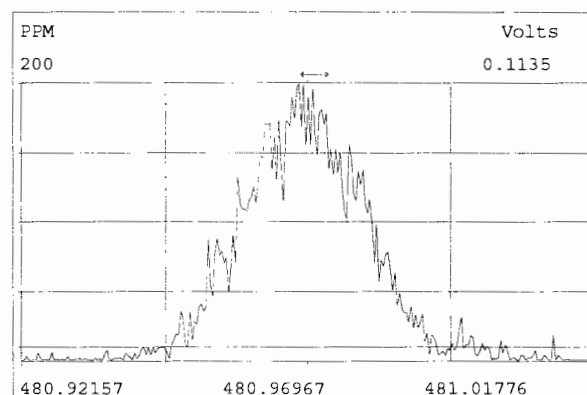
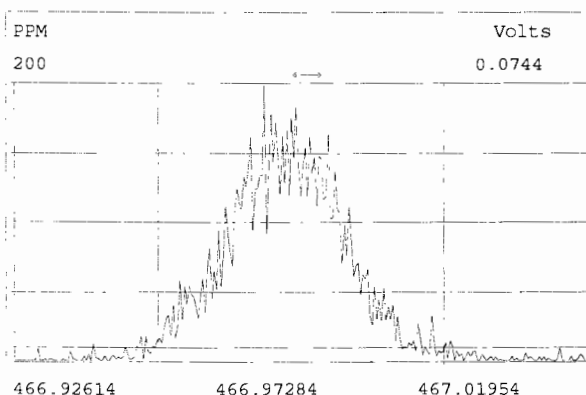
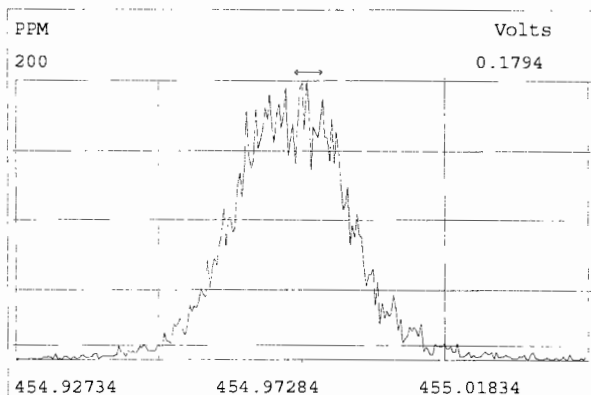
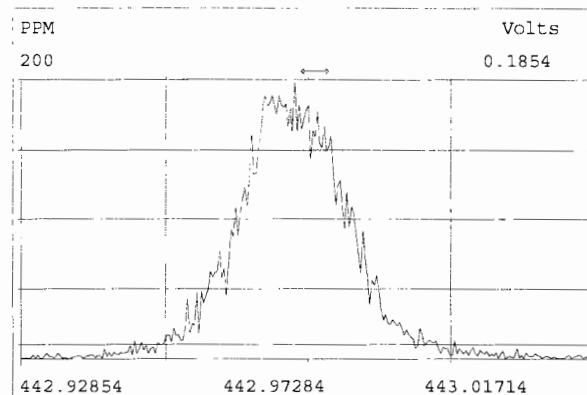
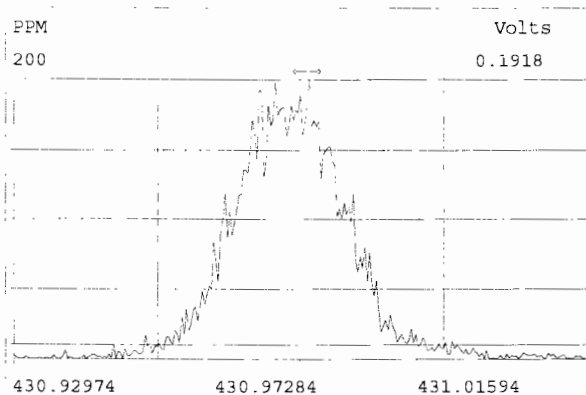
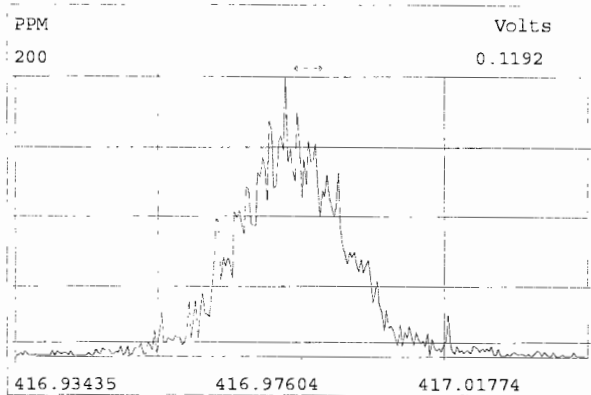


Experiment:PCB\_ZB1 Function:3 Reference:PFX

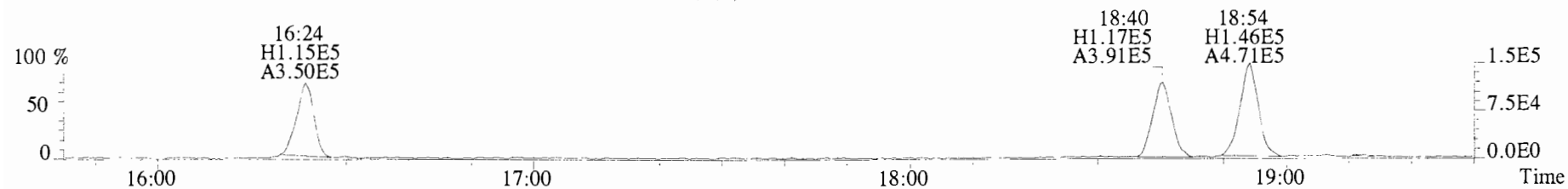




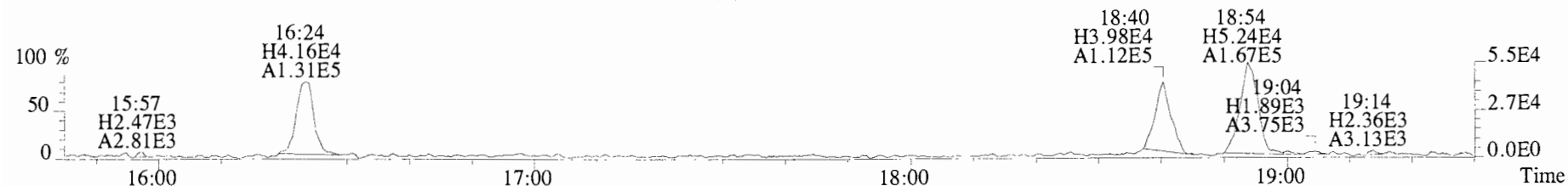




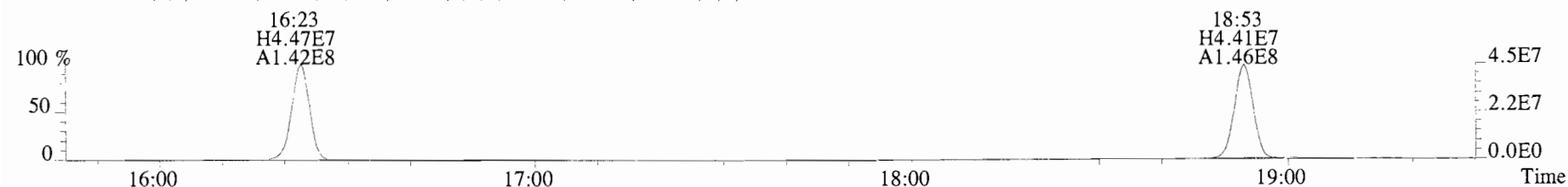
File:140623E2 #1-728 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
188.0393 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%.2544.0,0.00%,F,F)



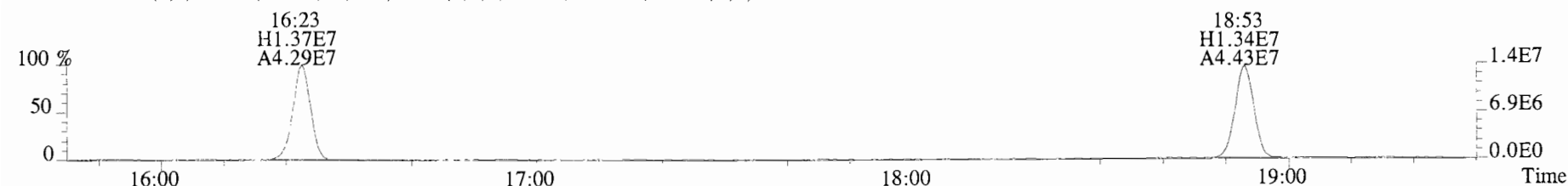
190.0363 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2204.0,0.00%,F,F)



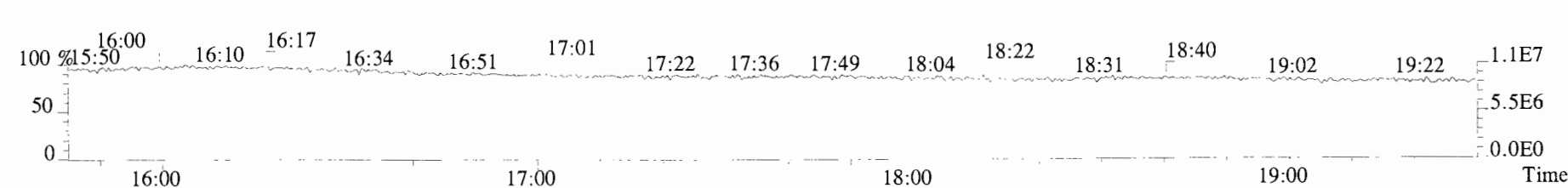
200.0795 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8196.0,0.00%,F,F)



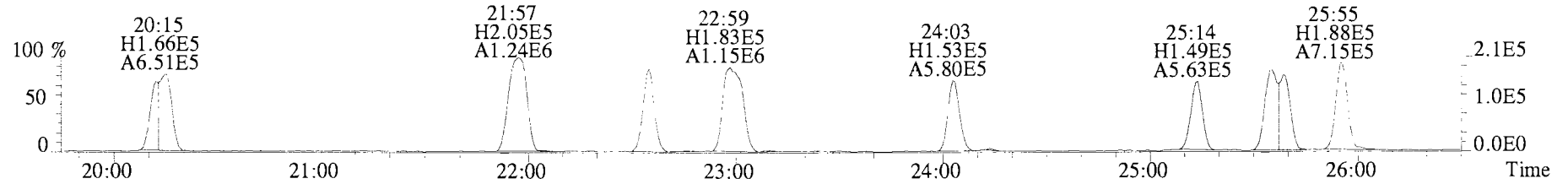
202.0766 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55216.0,0.00%,F,F)



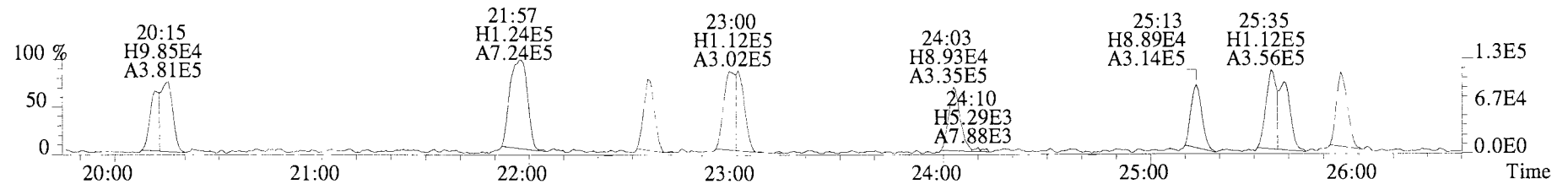
180.9880



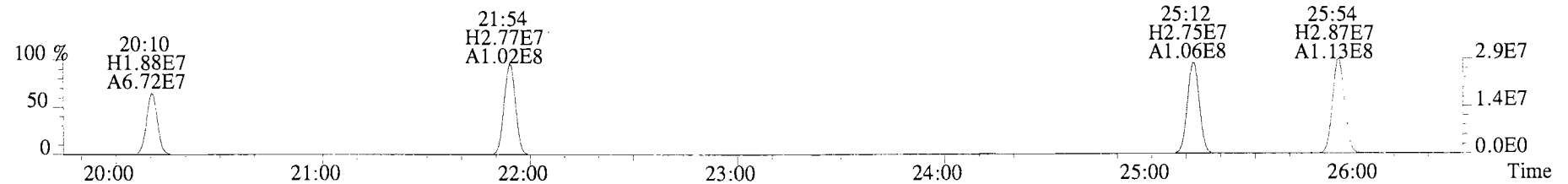
File:140623E2 #1-750 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 222.0003 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



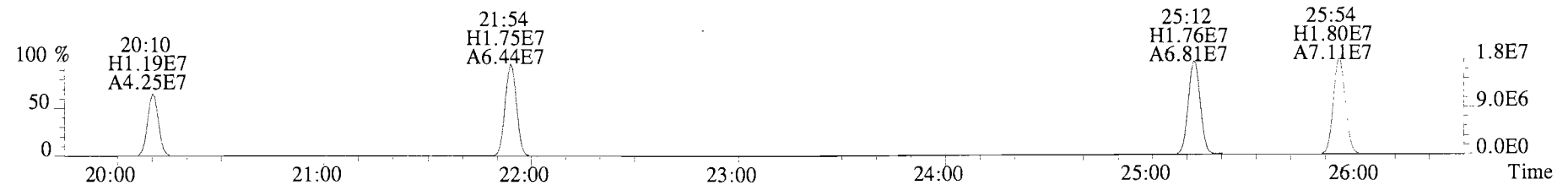
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5440.0,0.00%,F,F)



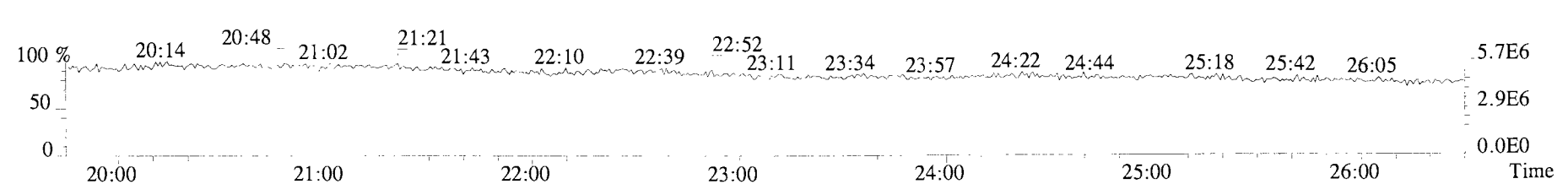
234.0406 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4128.0,0.00%,F,F)



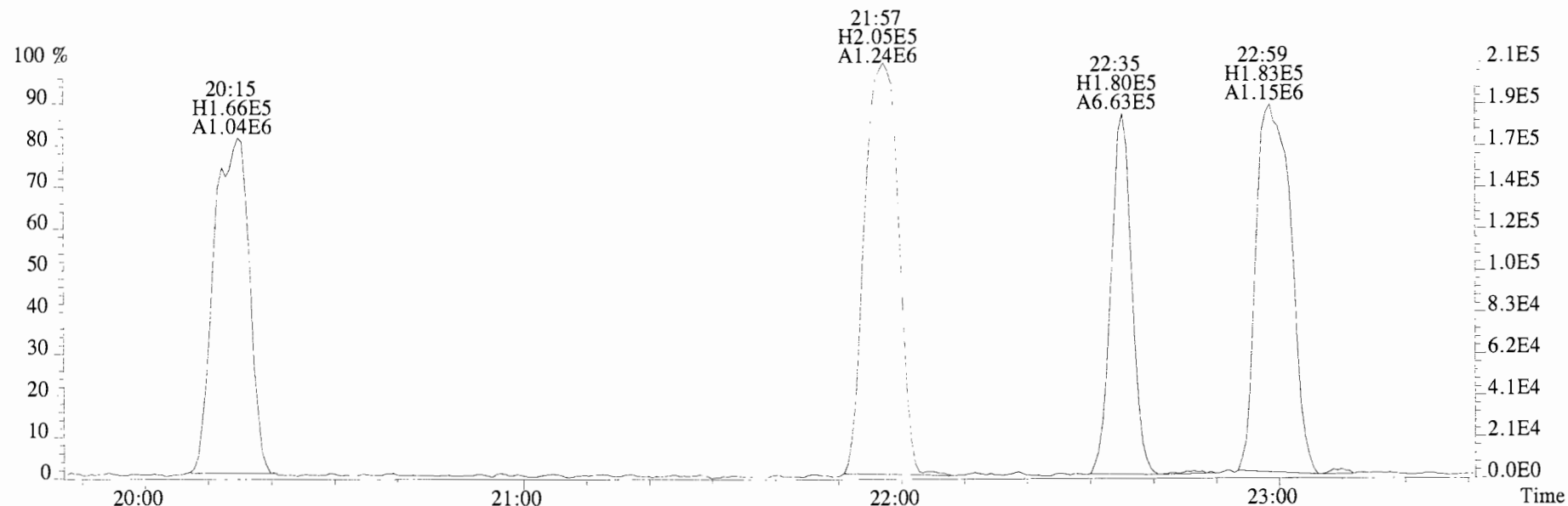
236.0376 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4524.0,0.00%,F,F)



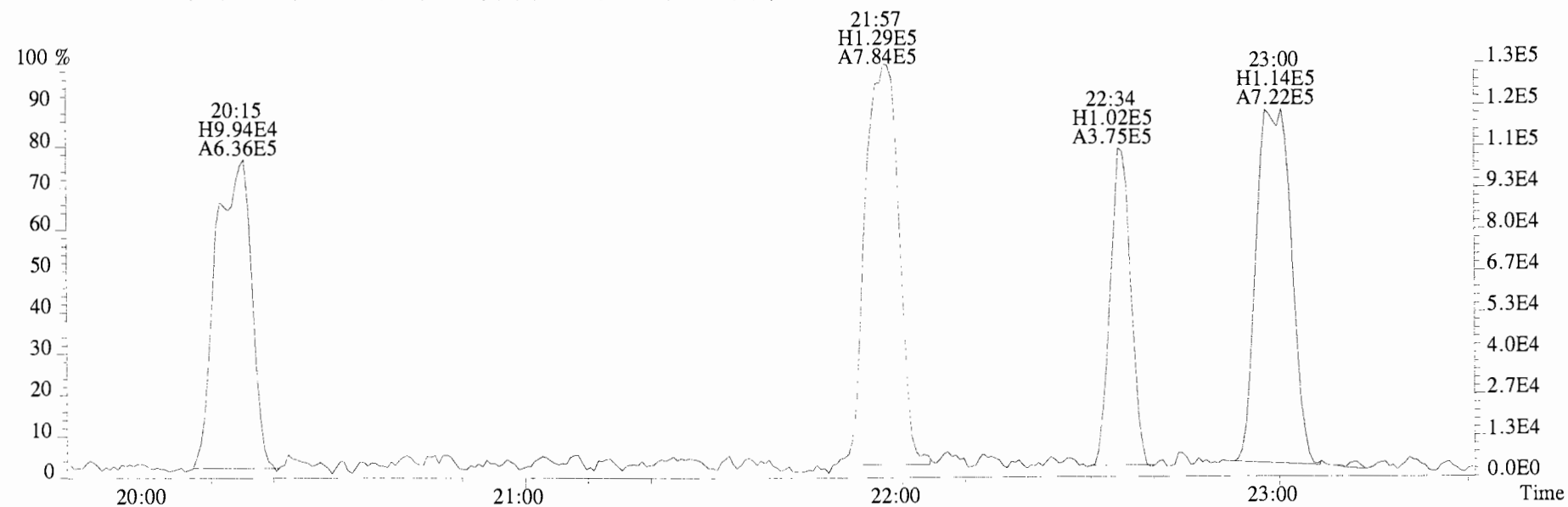
230.9856 F:2



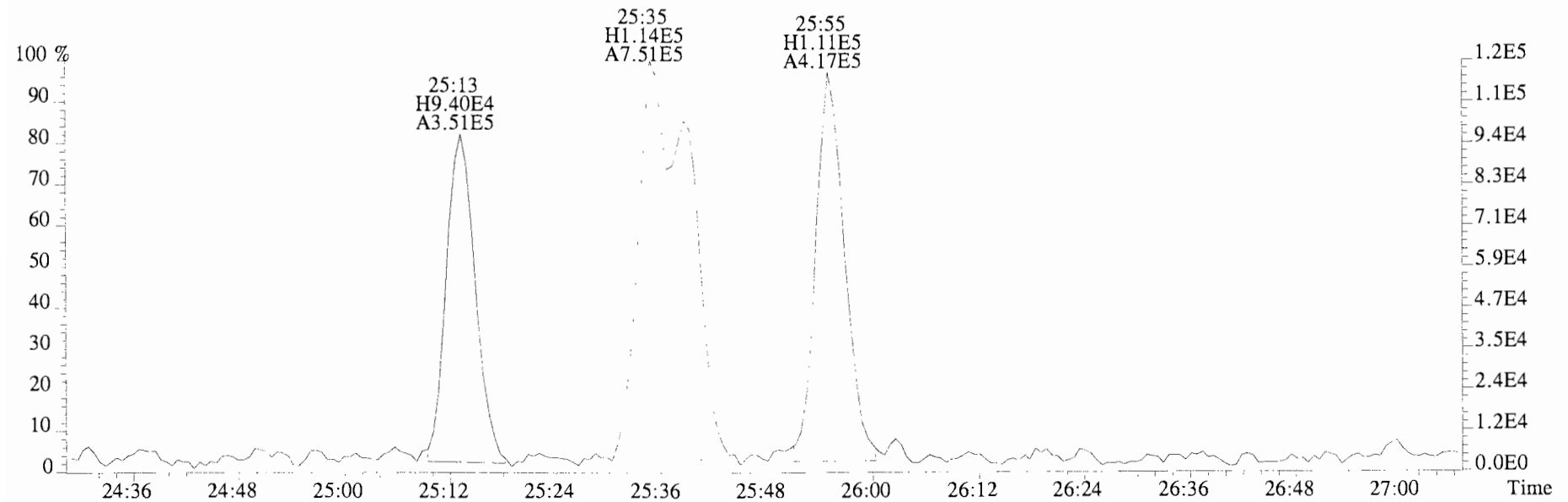
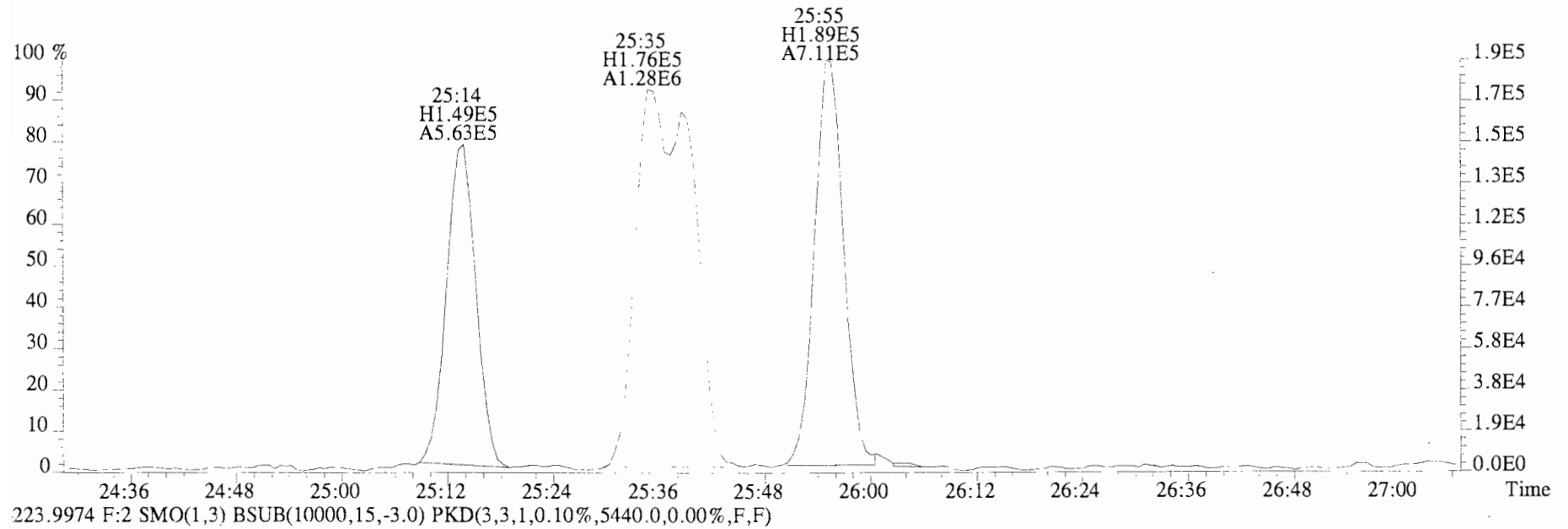
File:140623E2 #1-750 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 Exp:PCB\_ZB1  
222.0003 F:2 SMO(I,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



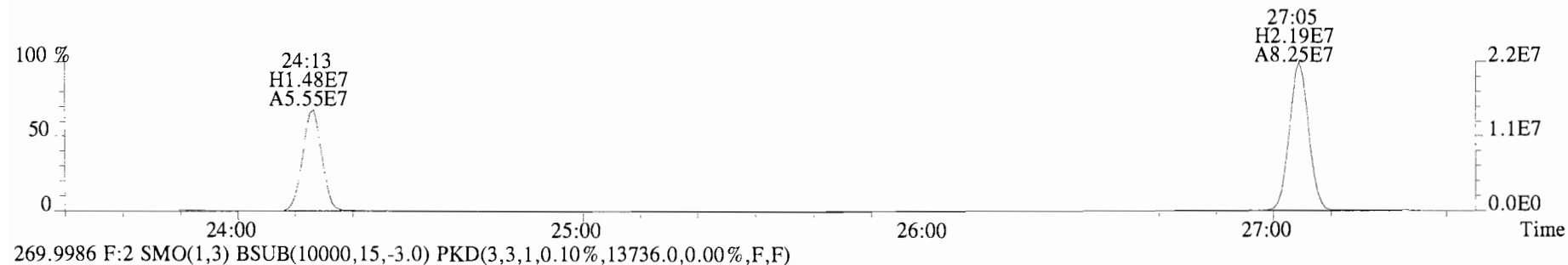
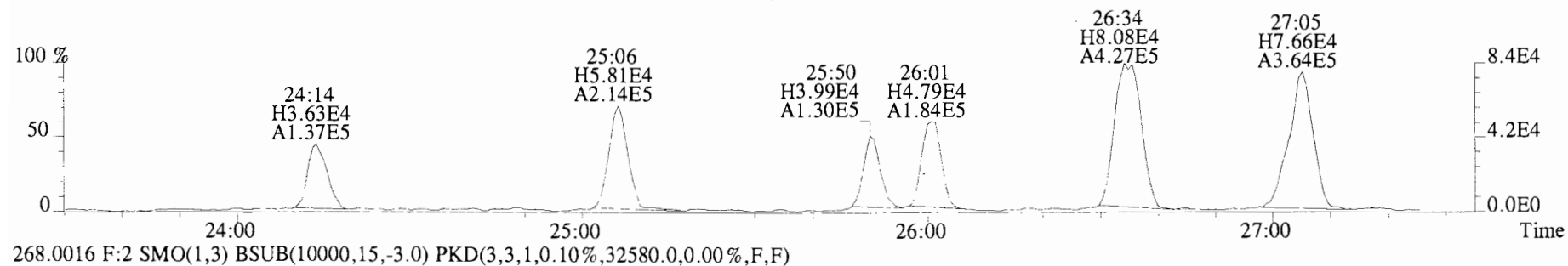
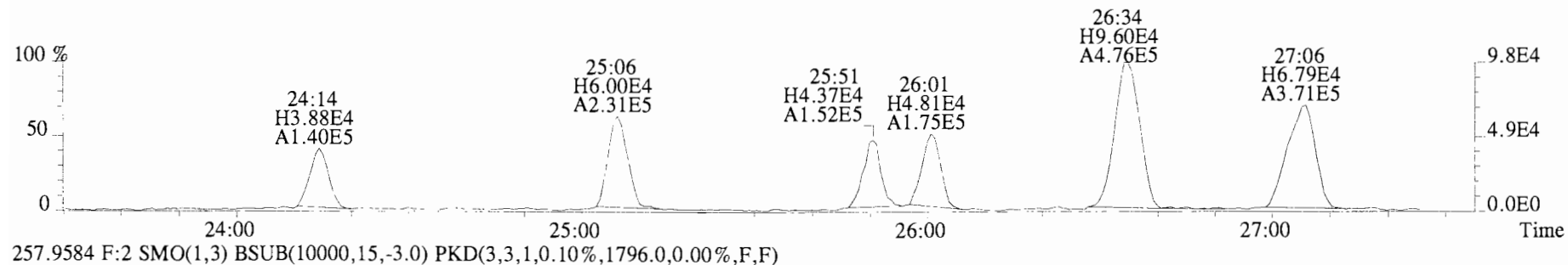
223.9974 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5440.0,0.00%,F,F)



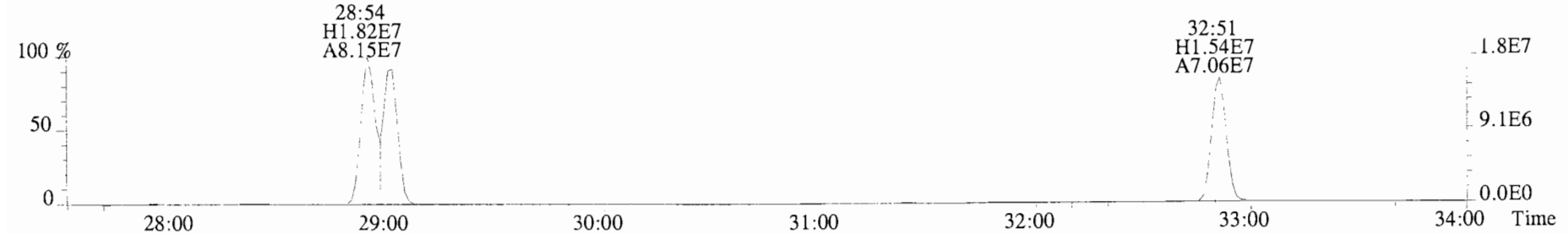
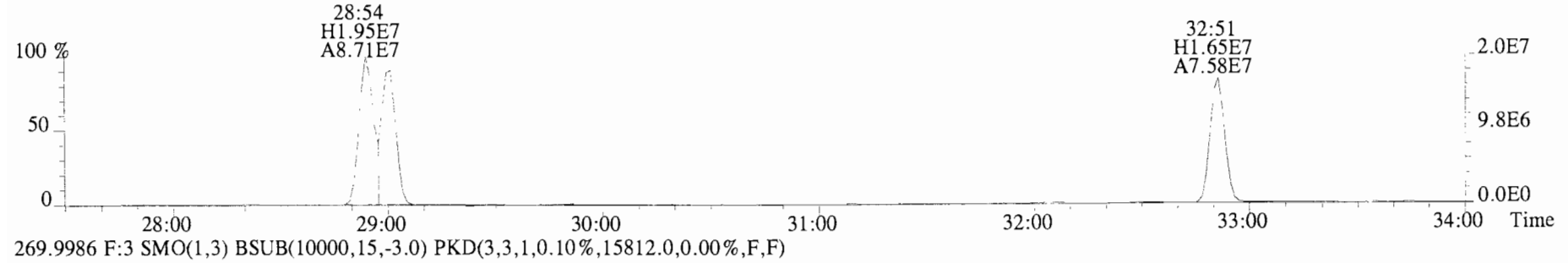
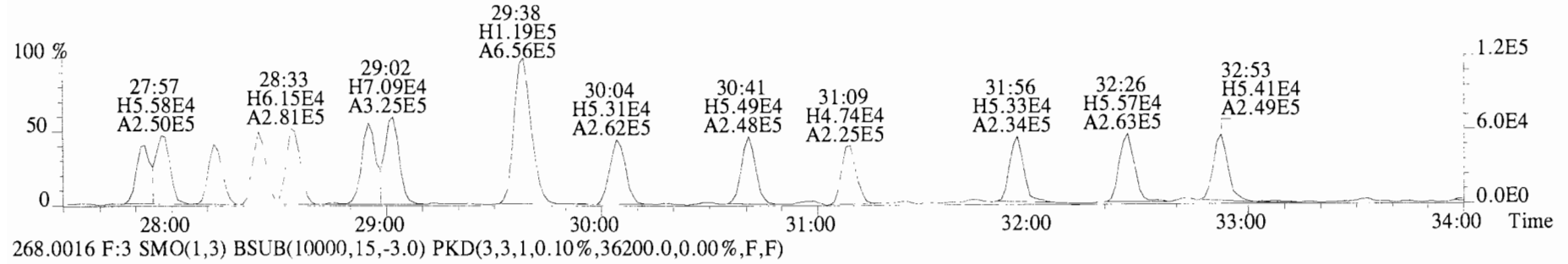
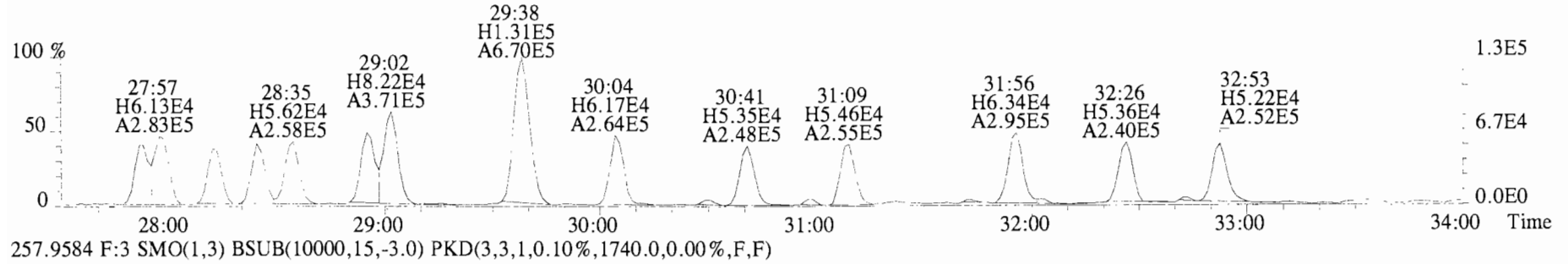
File:140623E2 #1-750 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 Exp:PCB\_ZB1  
222.0003 F:2 SMO(I,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2364.0,0.00%,F,F)



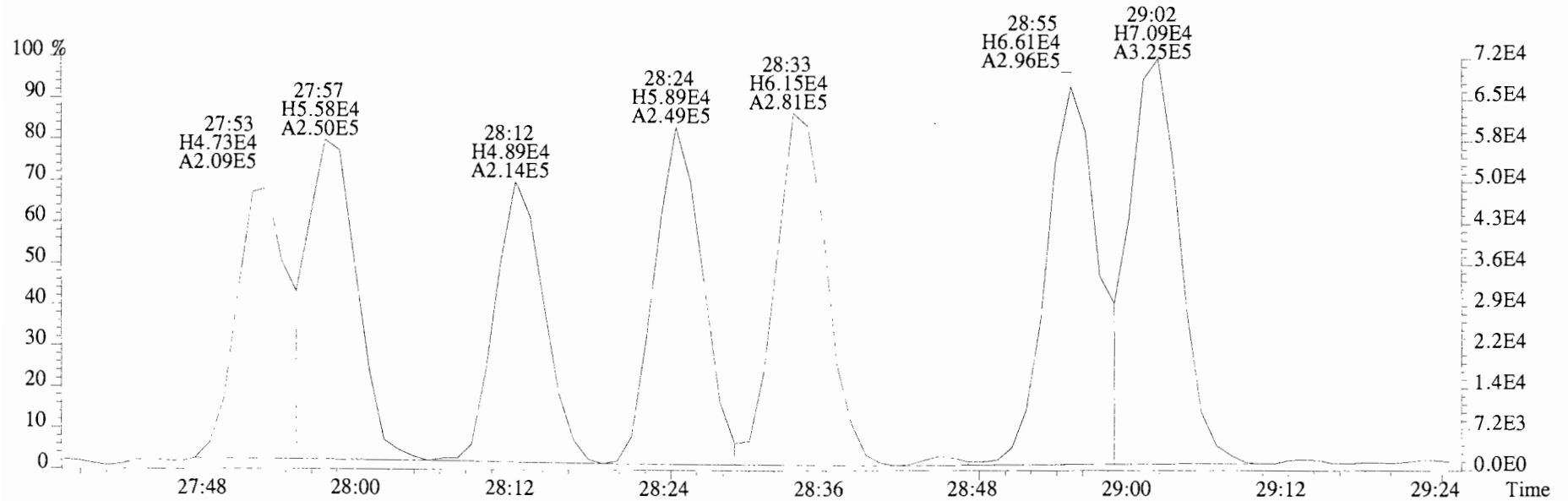
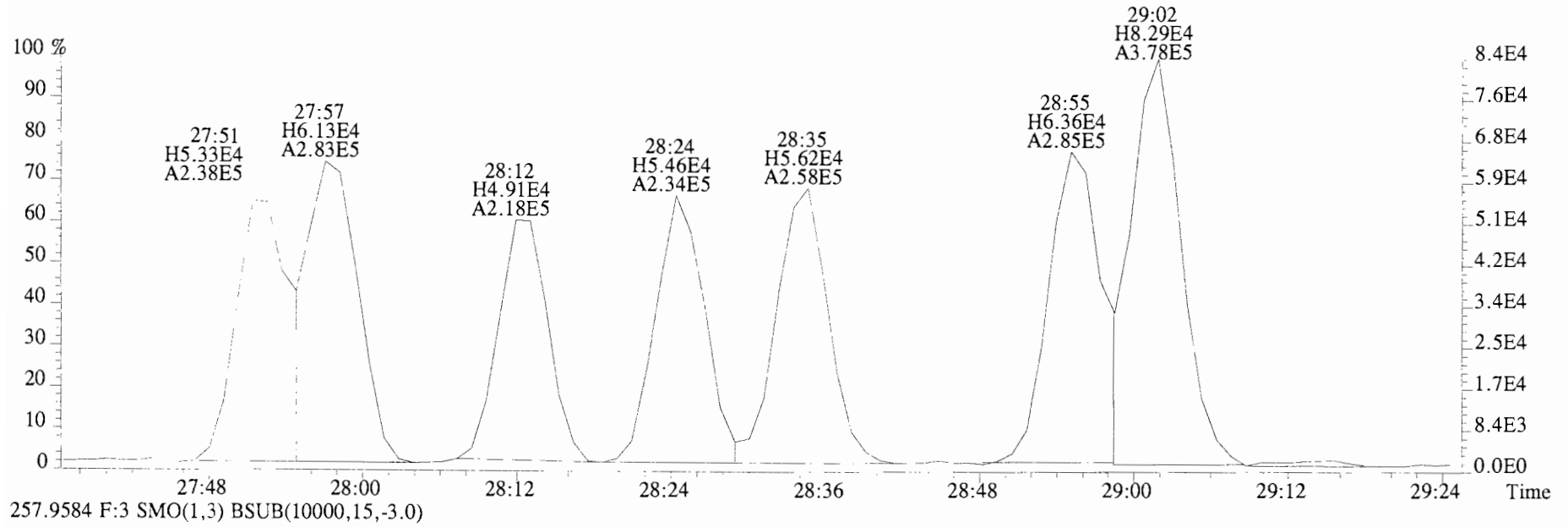
File:140623E2 #1-750 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
255.9613 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1708.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2344.0,0.00%,F,F)

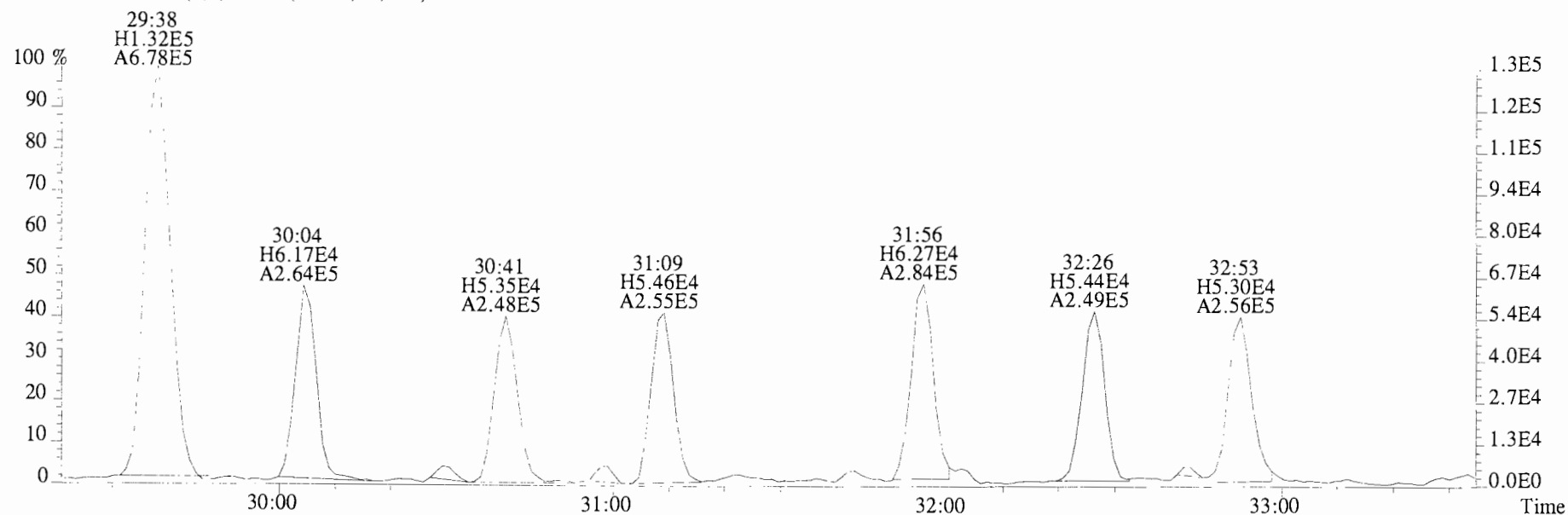


File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0)

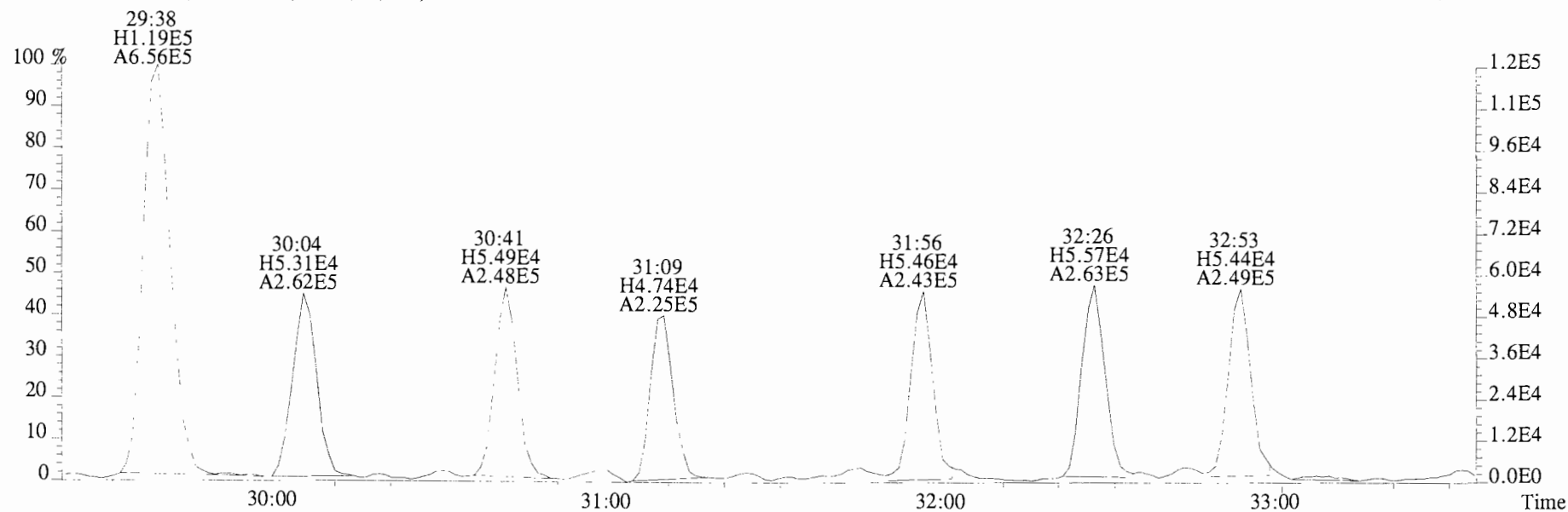




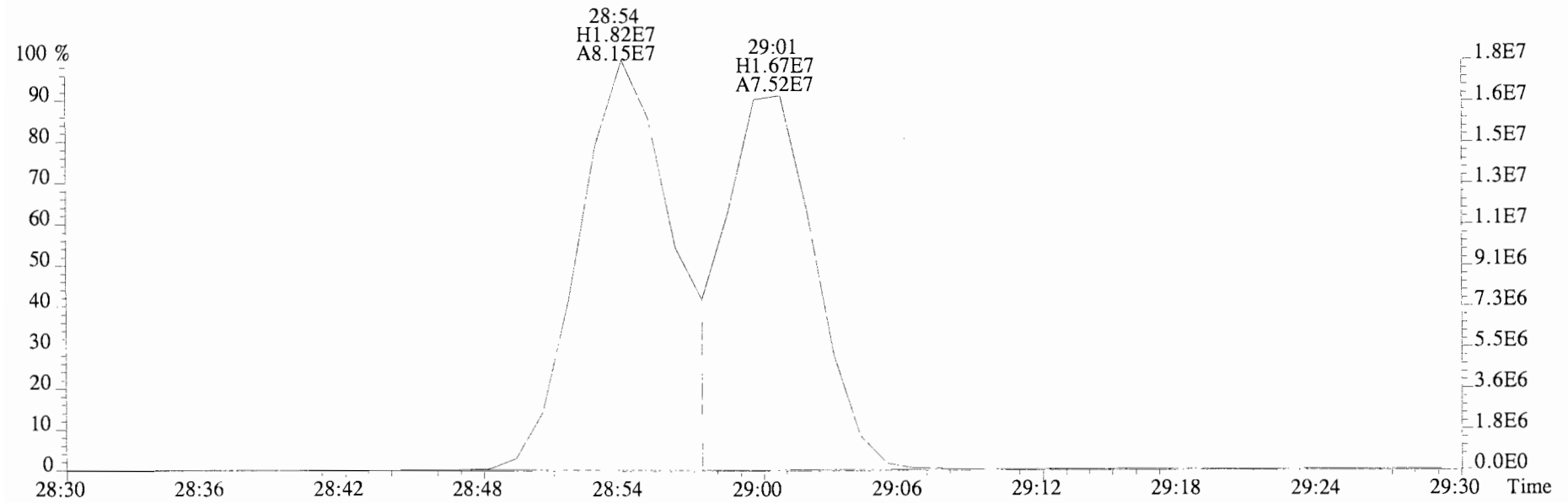
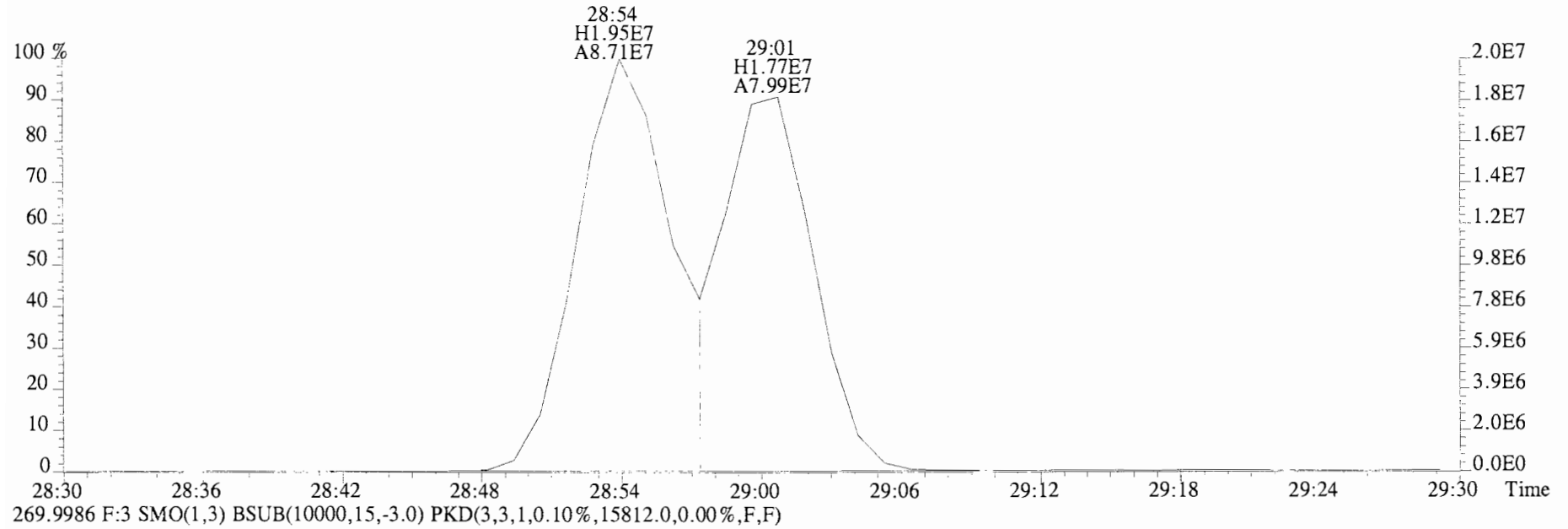
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
255.9613 F:3 SMO(1,3) BSUB(10000,15,-3.0)



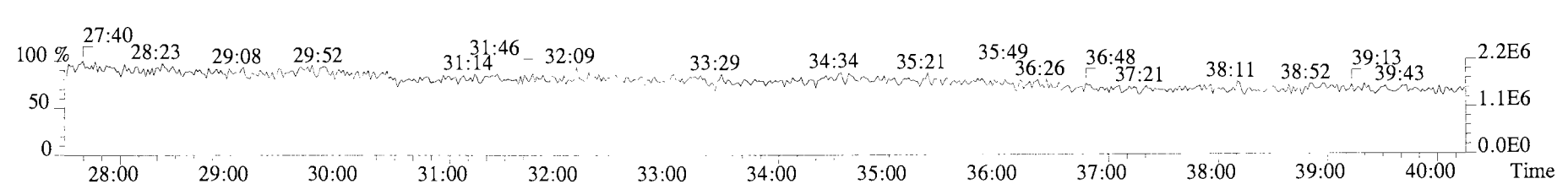
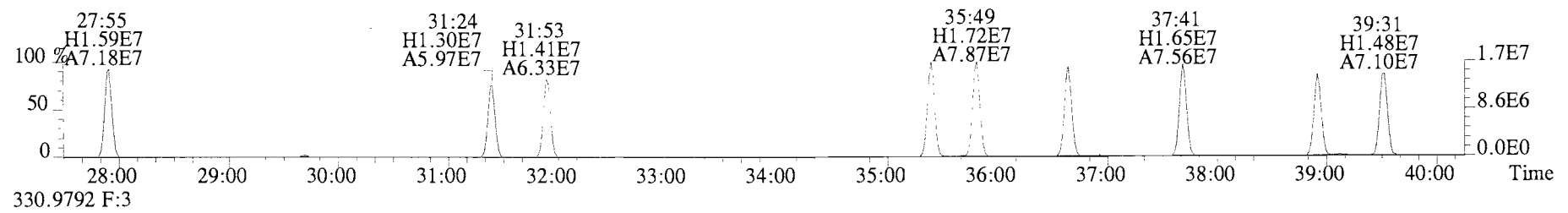
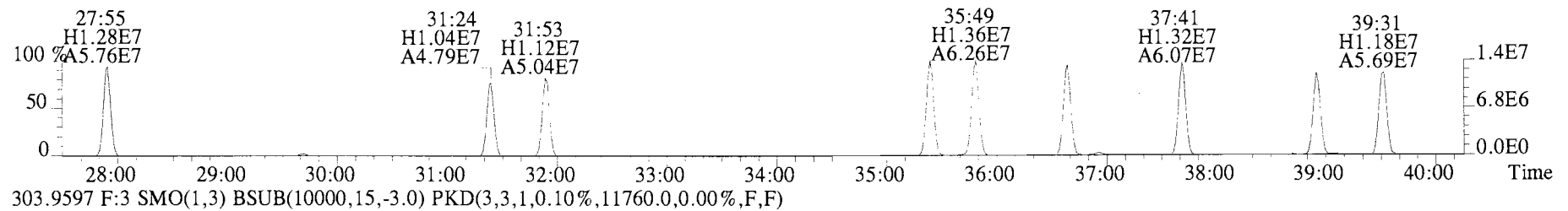
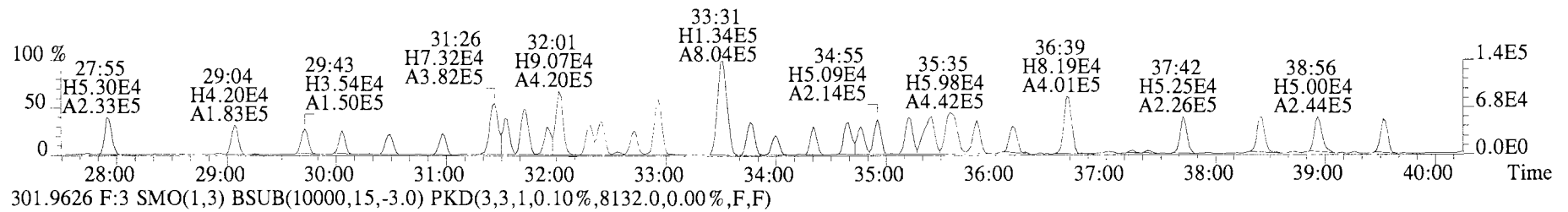
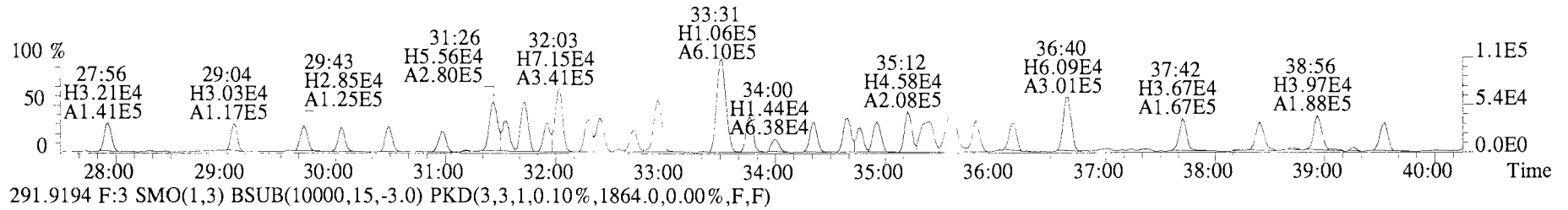
257.9584 F:3 SMO(1,3) BSUB(10000,15,-3.0)



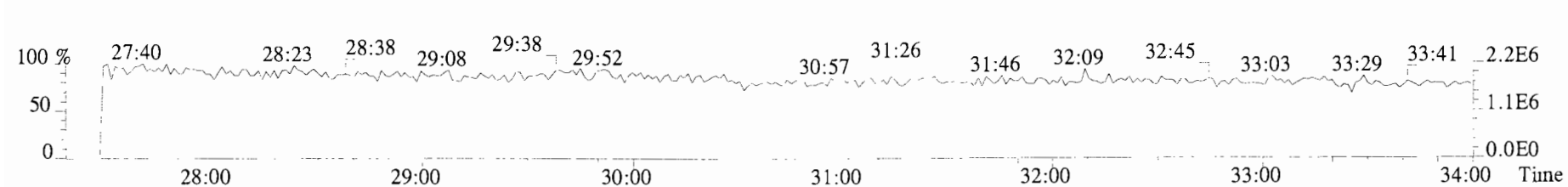
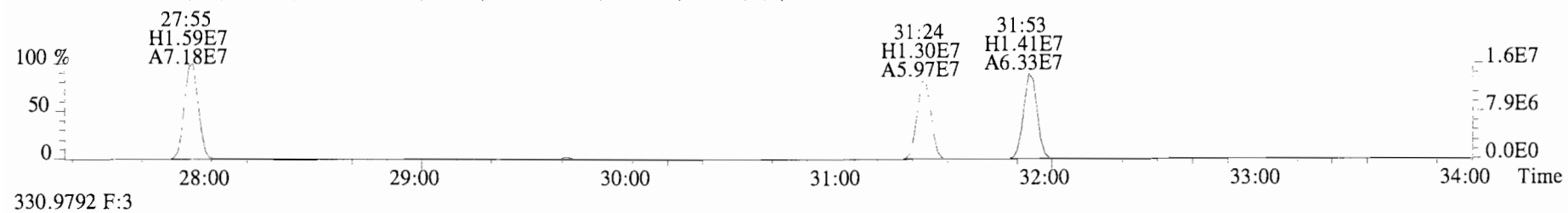
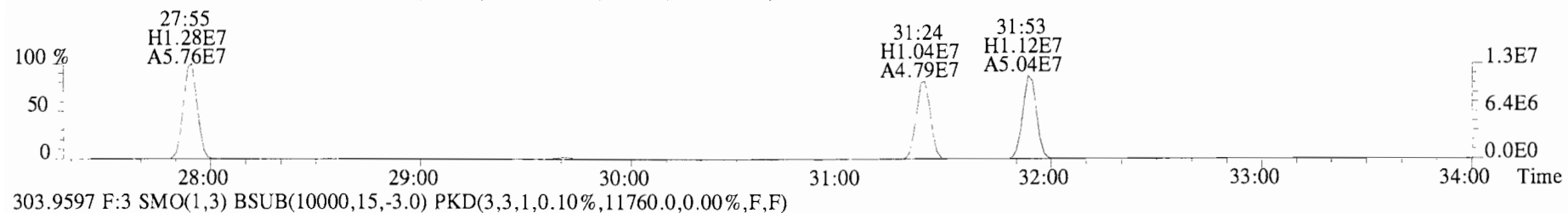
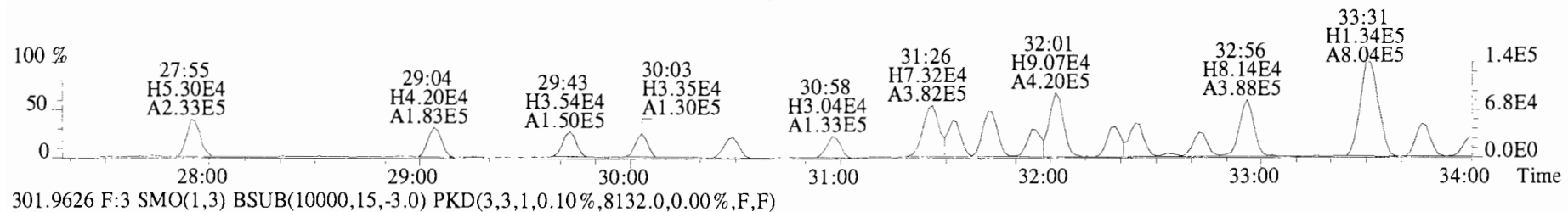
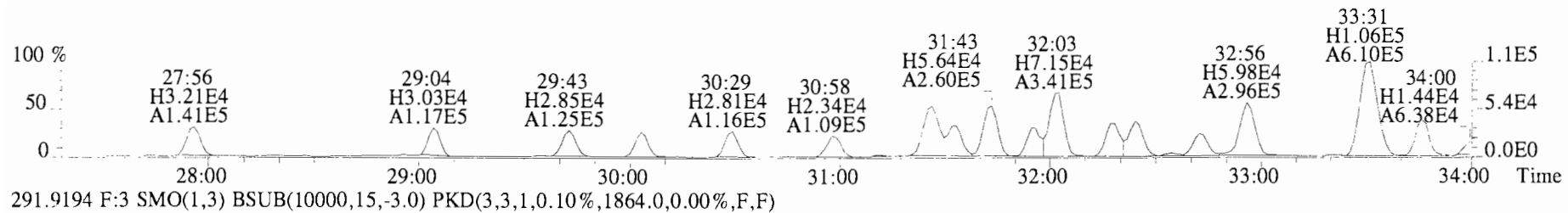
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
268.0016 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36200.0,0.00%,F,F)



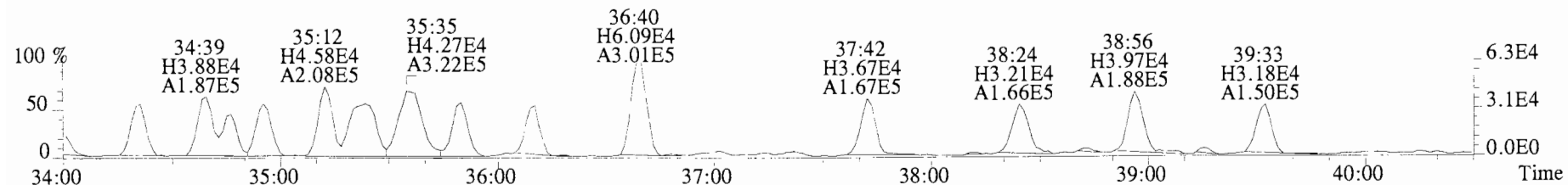
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



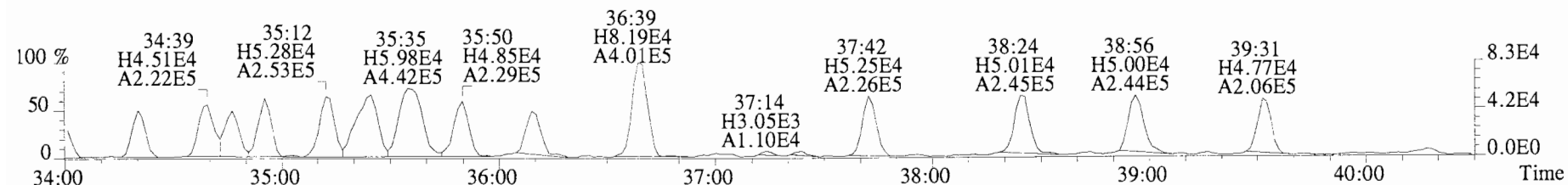
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



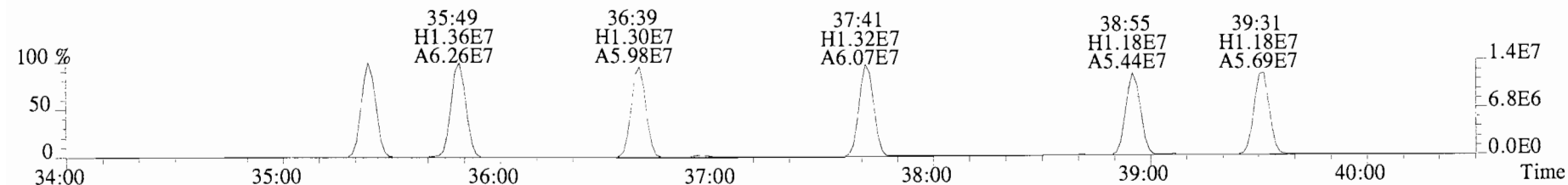
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



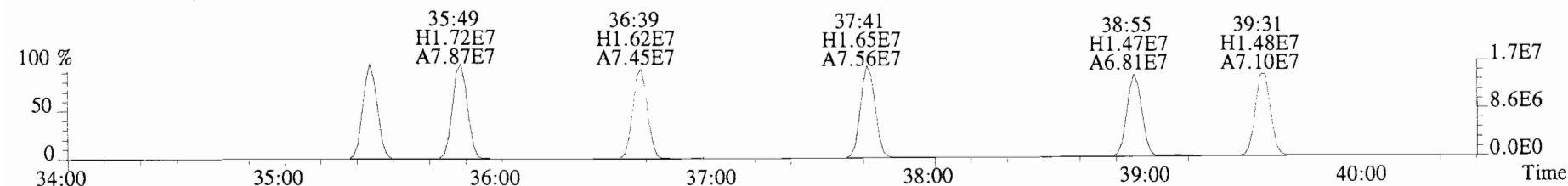
291.9194 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



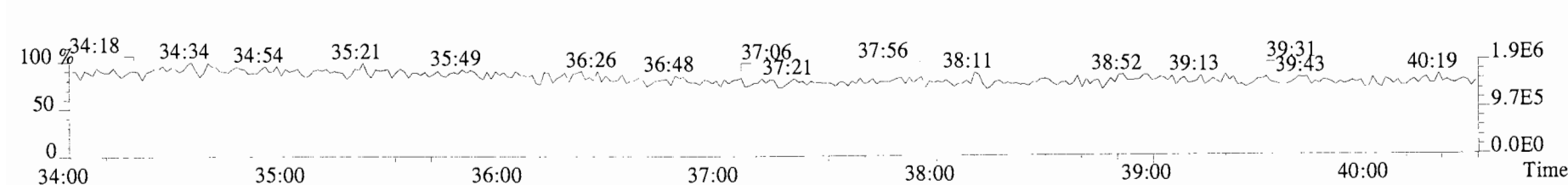
301.9626 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8132.0,0.00%,F,F)



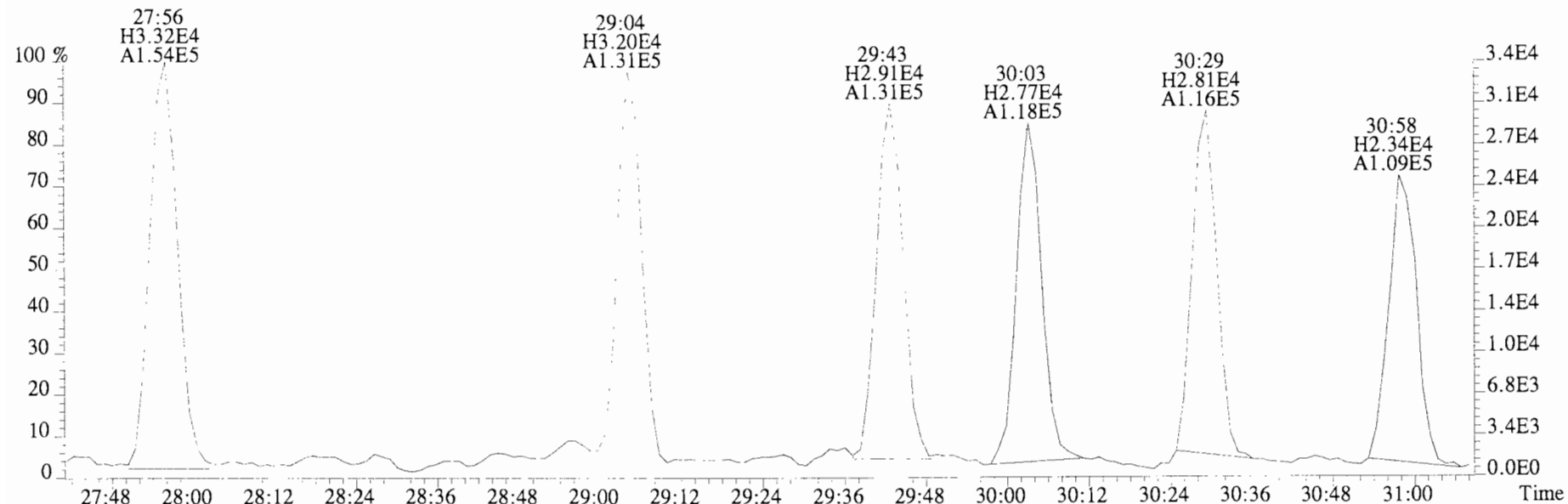
303.9597 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11760.0,0.00%,F,F)



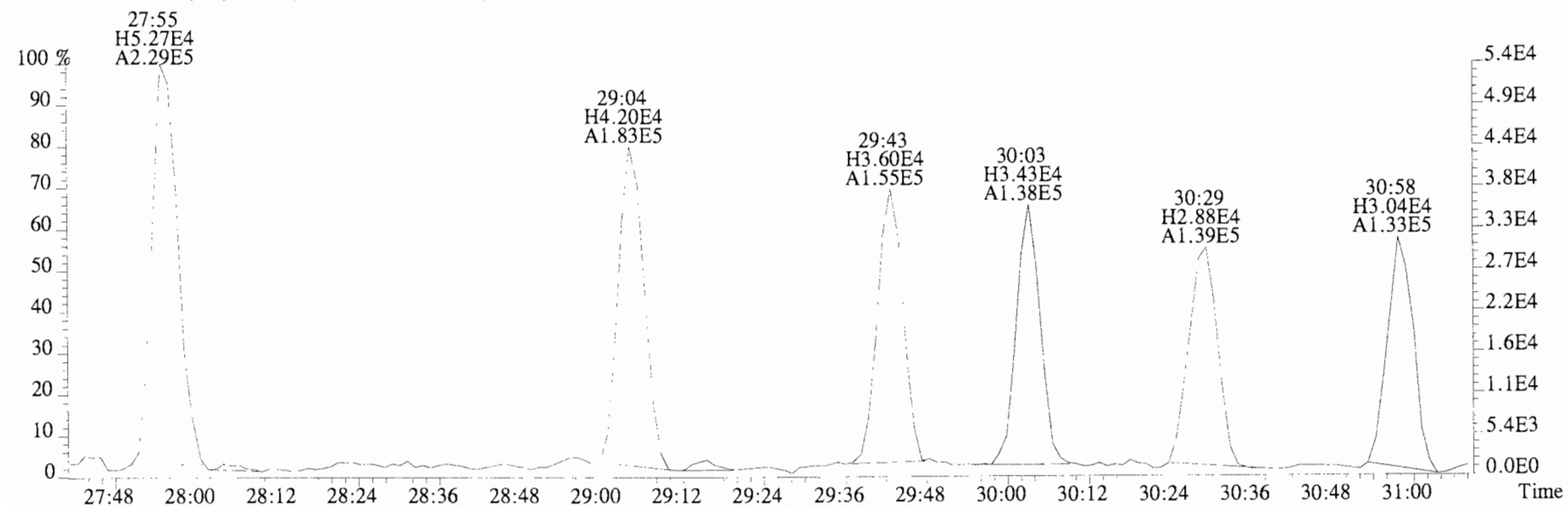
330.9792 F:3



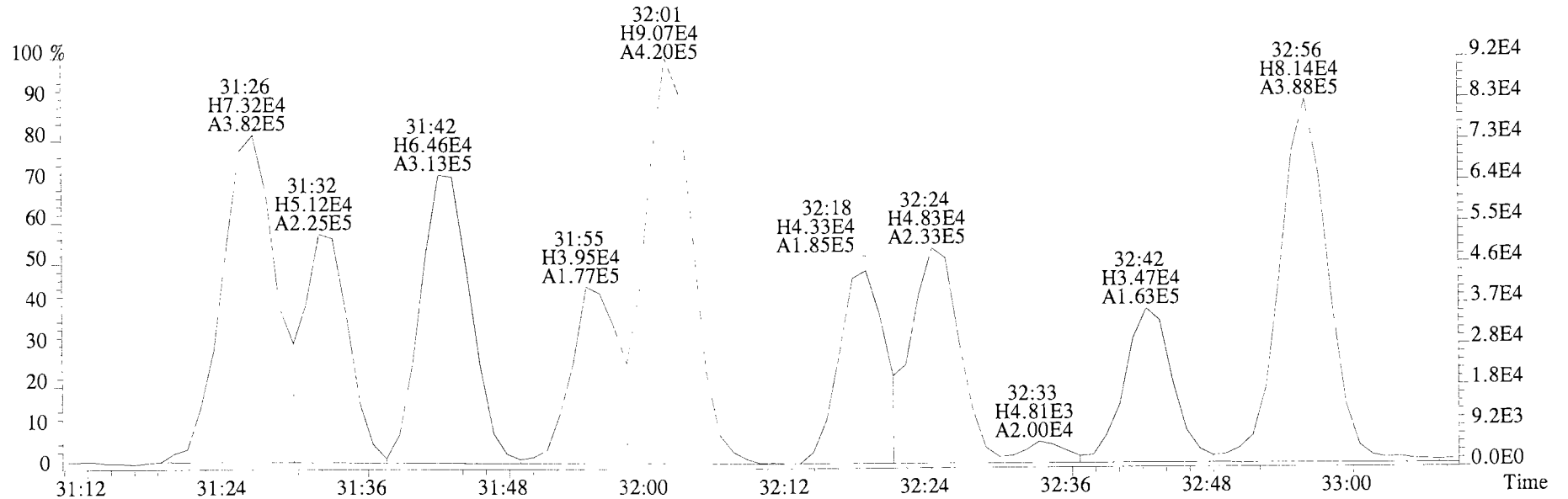
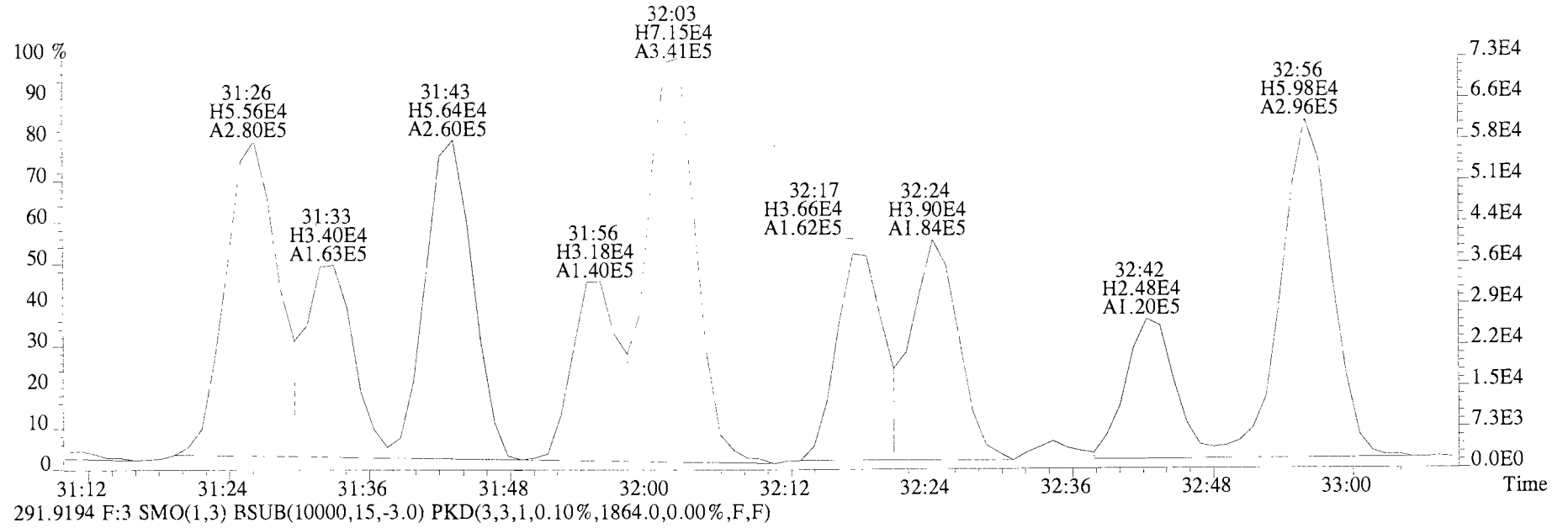
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



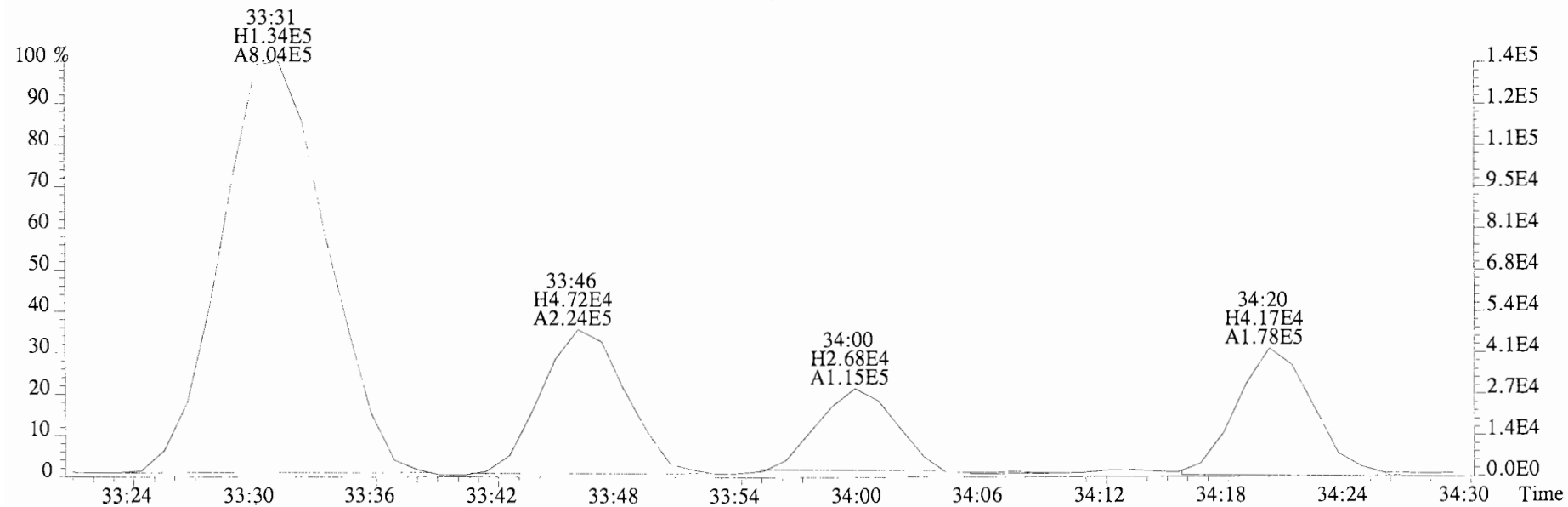
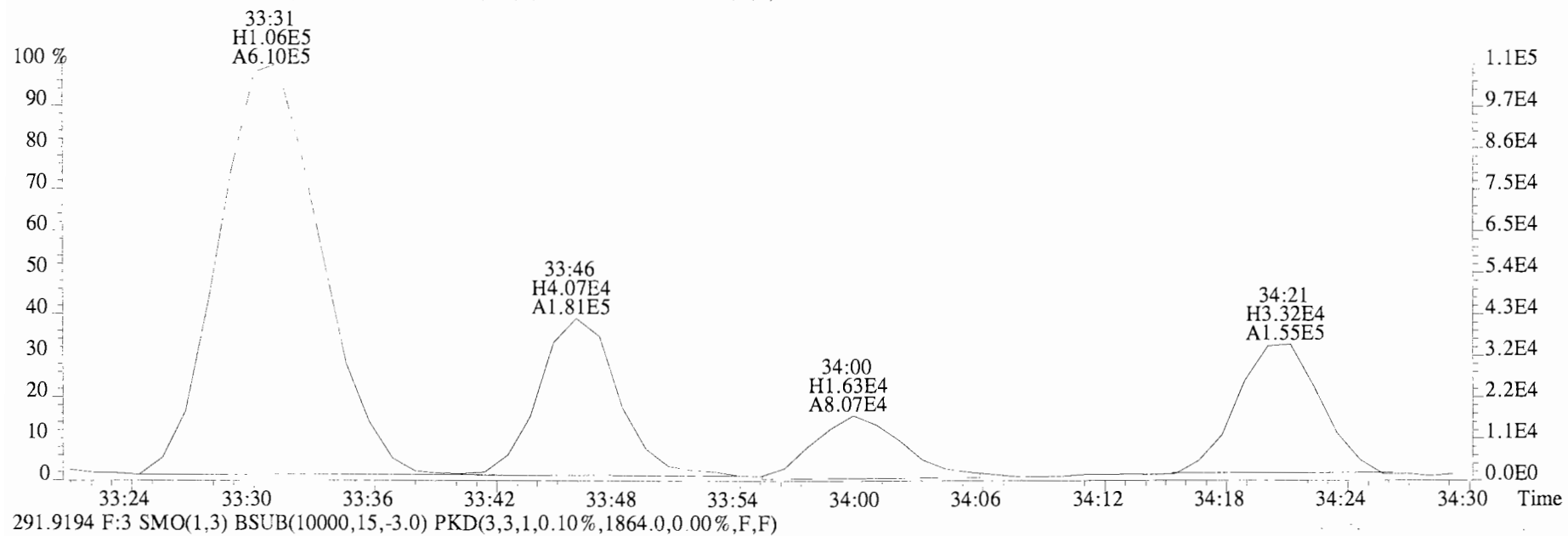
291.9194 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)

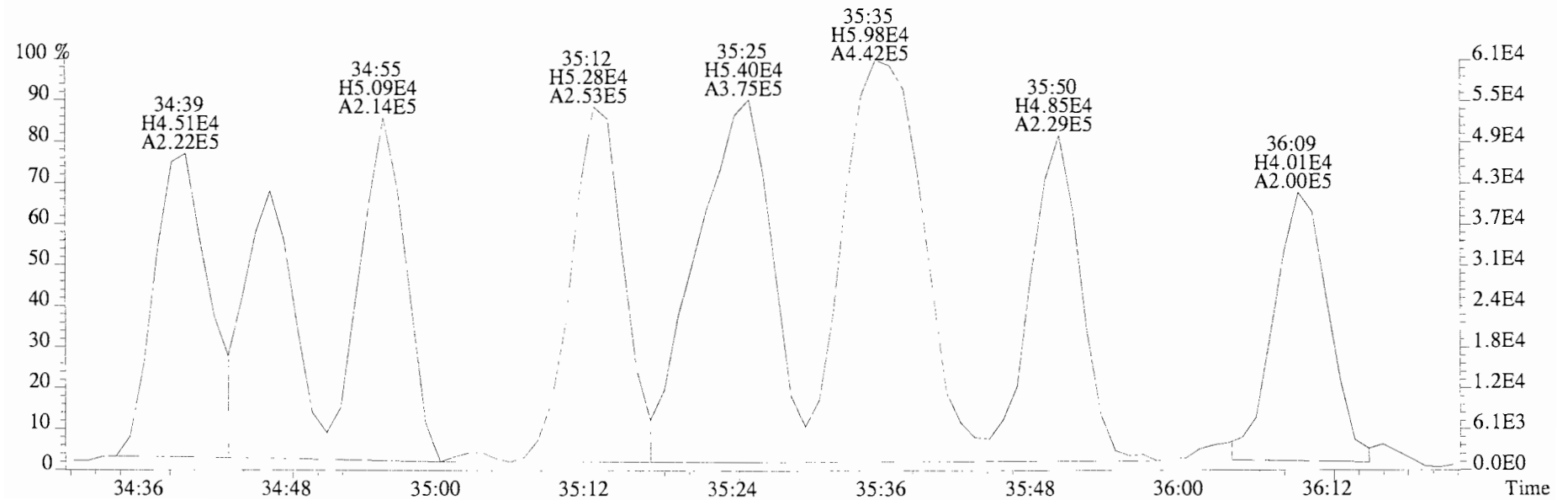
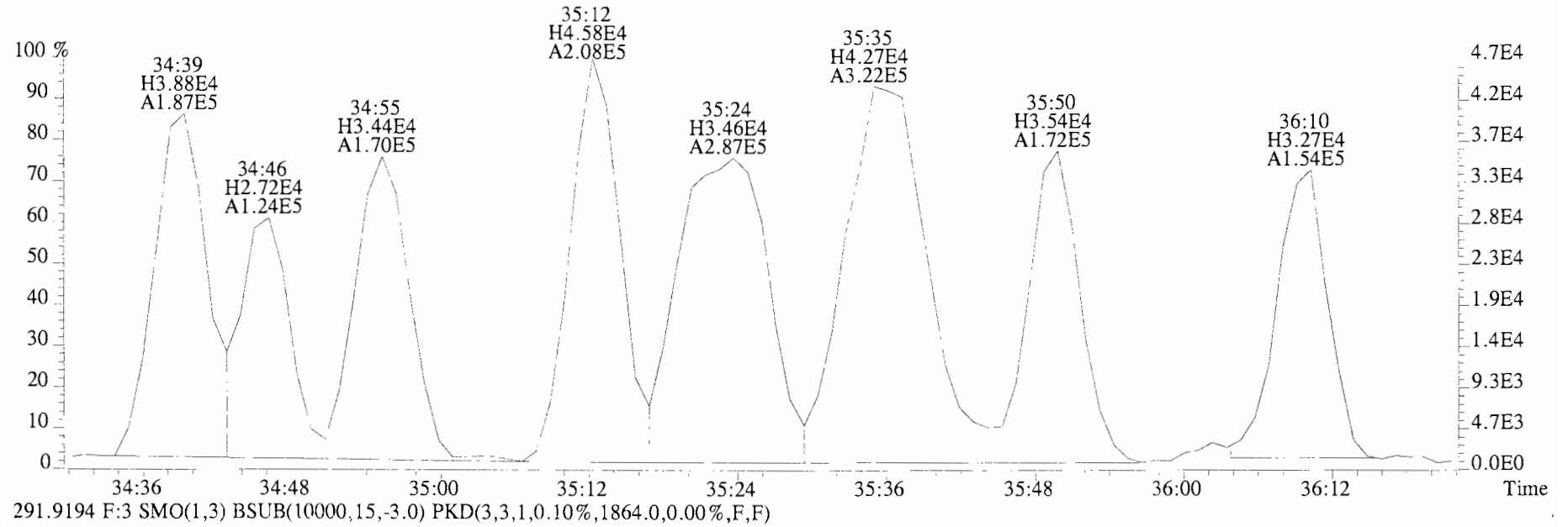


File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)

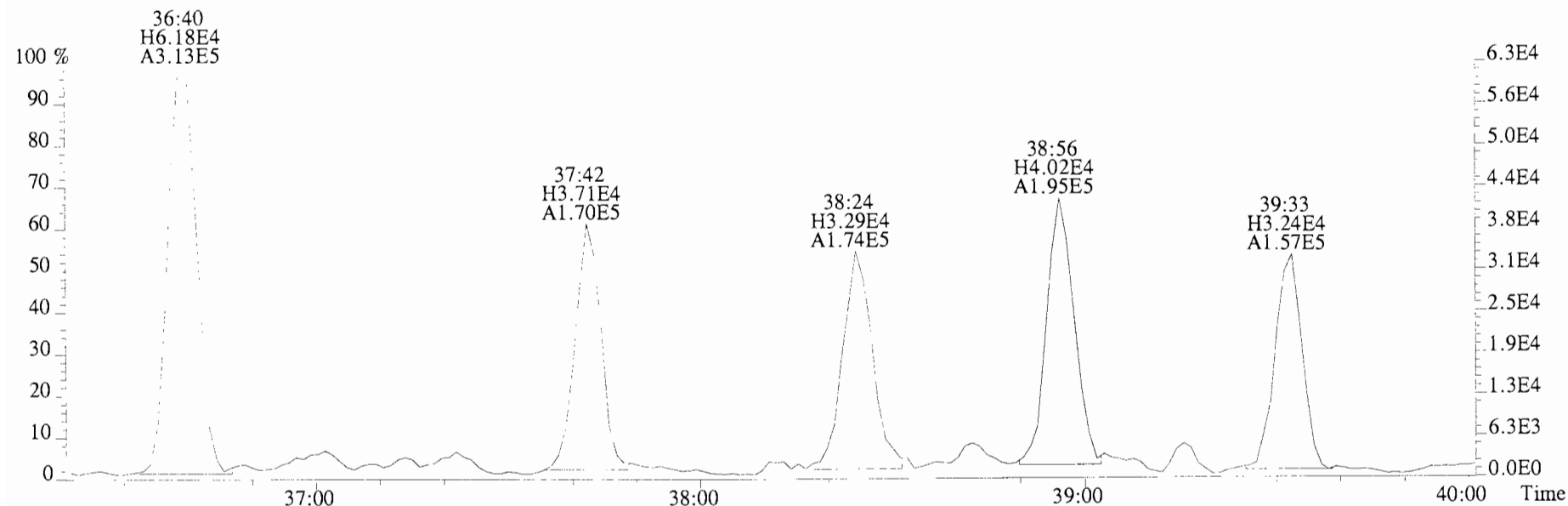




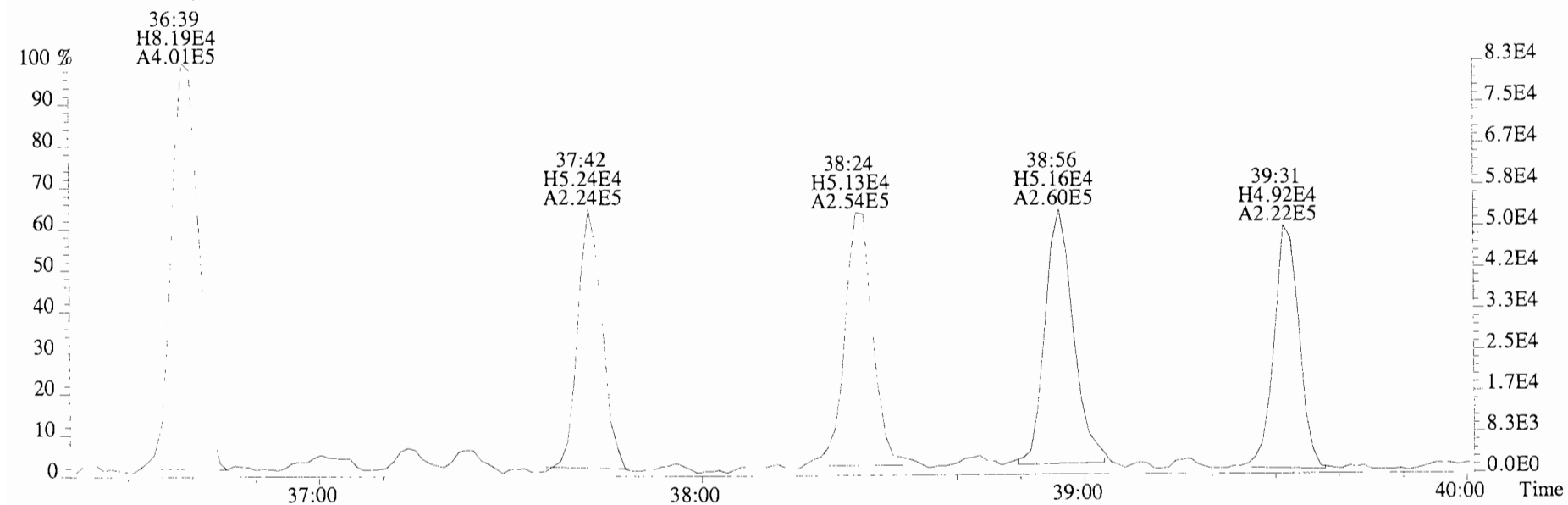
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



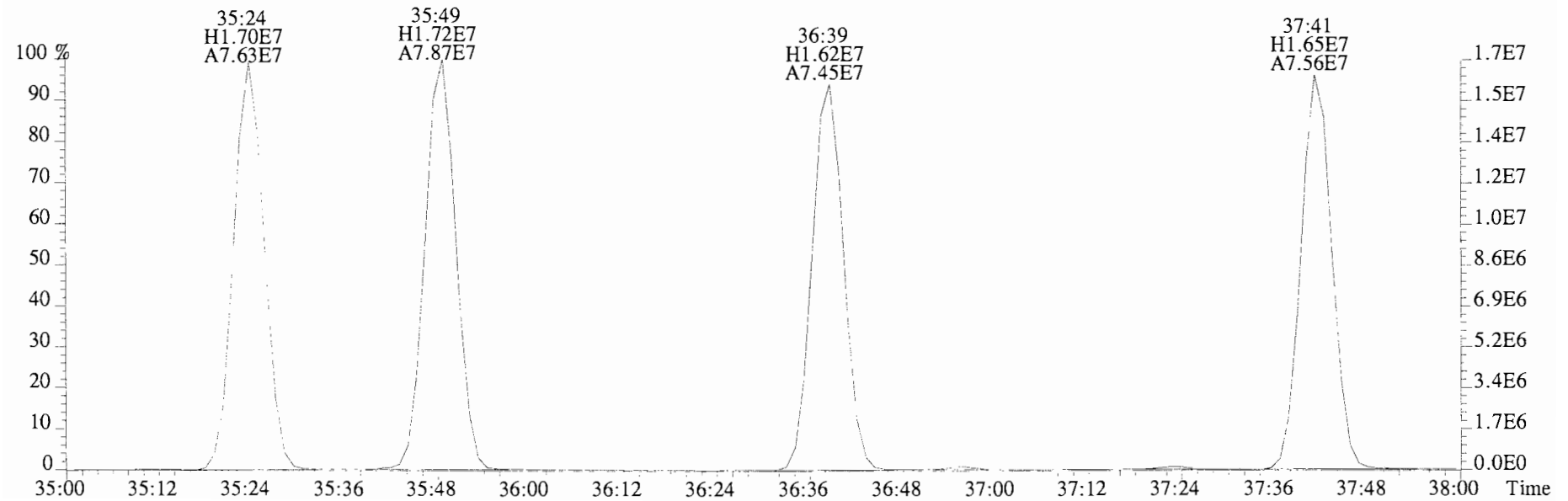
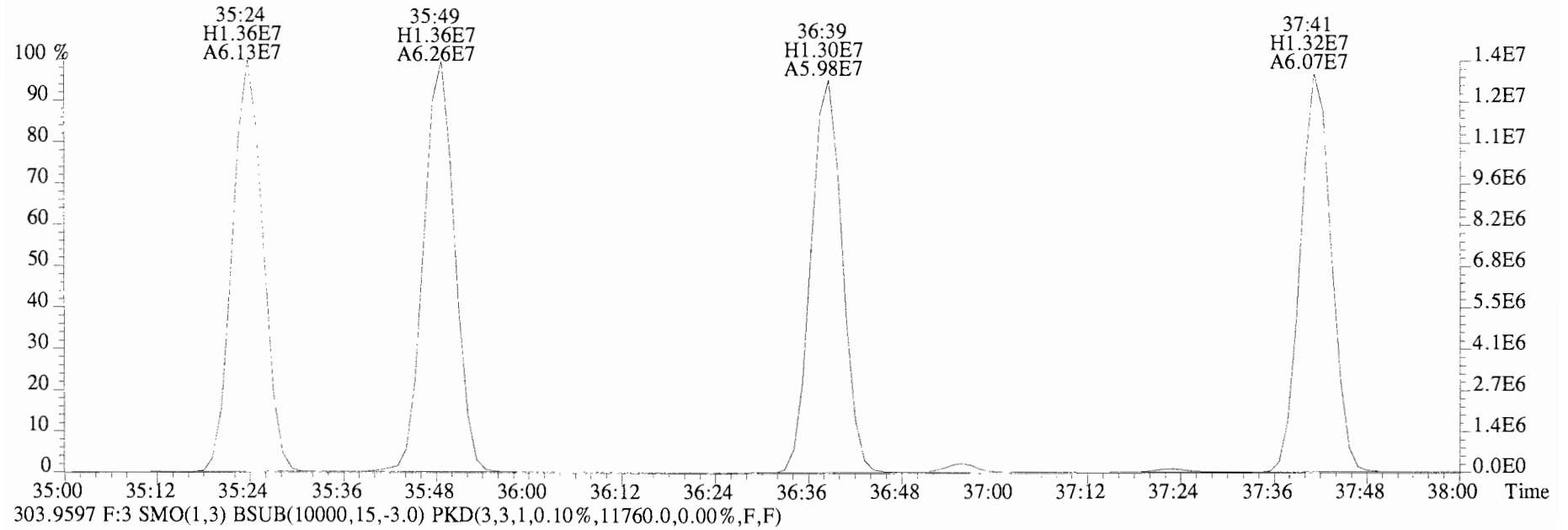
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Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
289.9224 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1952.0,0.00%,F,F)



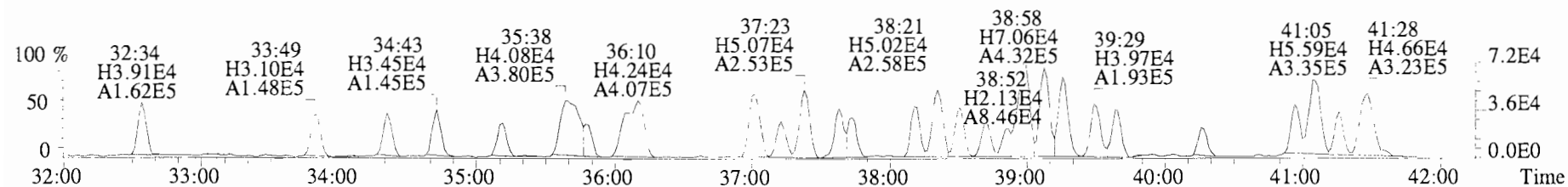
291.9194 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



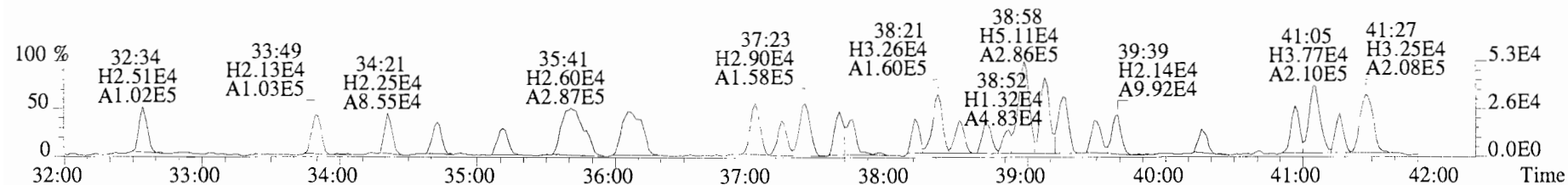
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
301.9626 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8132.0,0.00%,F,F)



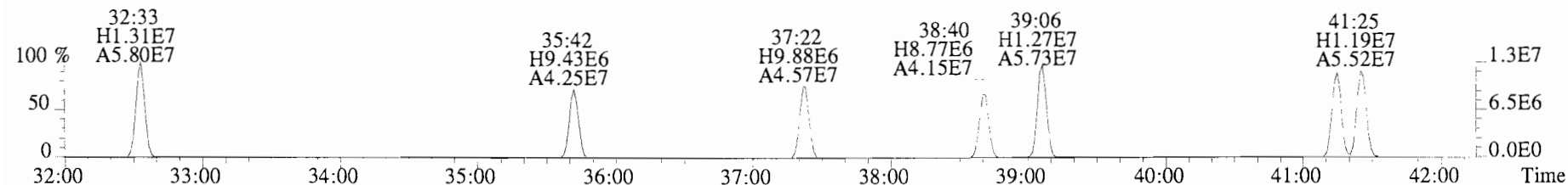
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



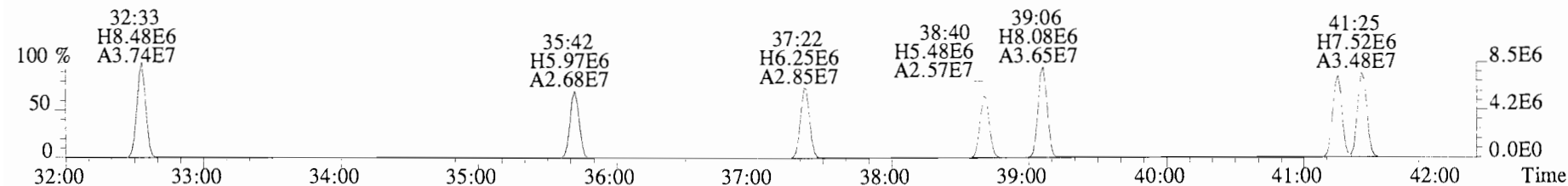
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



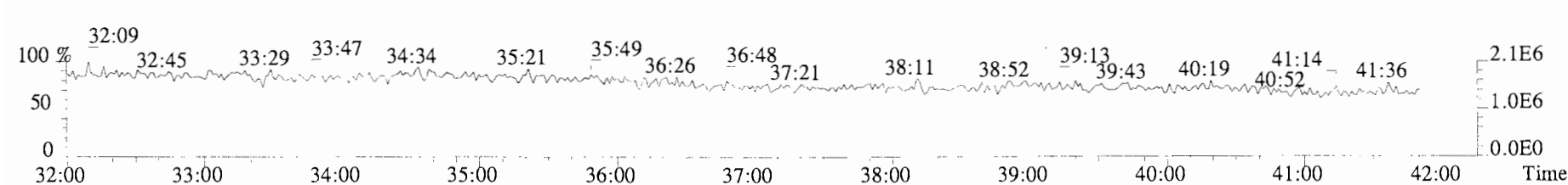
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2776.0,0.00%,F,F)



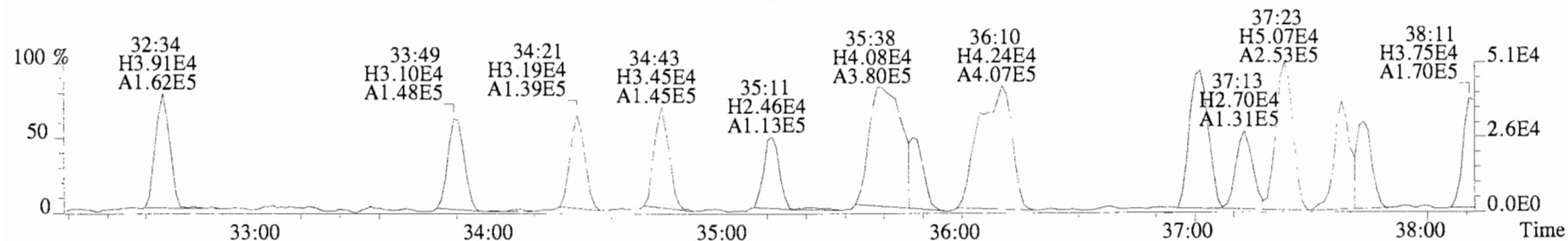
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



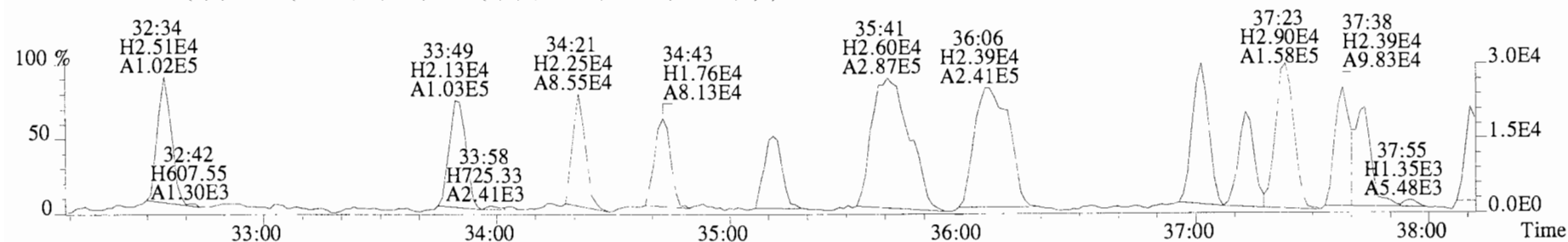
330.9792 F:3



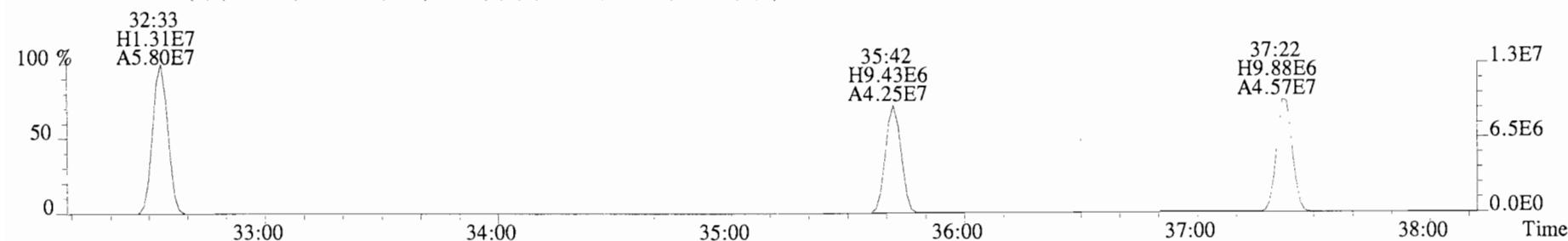
File: 140623E2 #1-760 Acq: 23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text: Vista Analytical Laboratory VG-8 Text: ST140623E2-1 PCB CS0 14F1602 Exp: PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



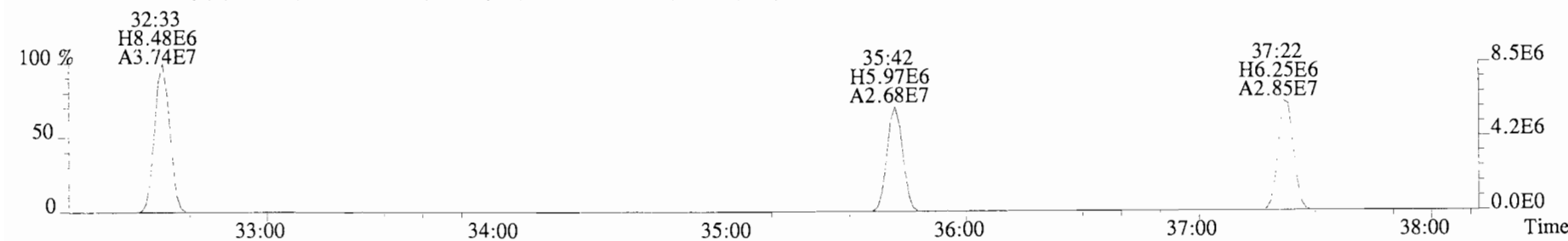
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



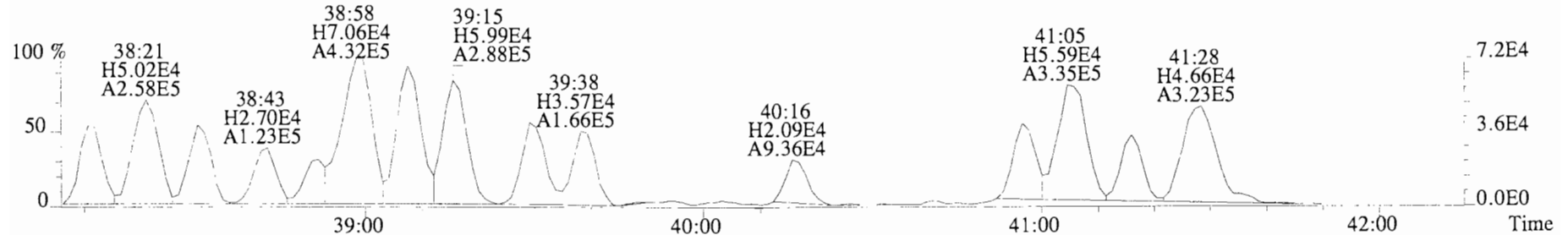
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2776.0,0.00%,F,F)



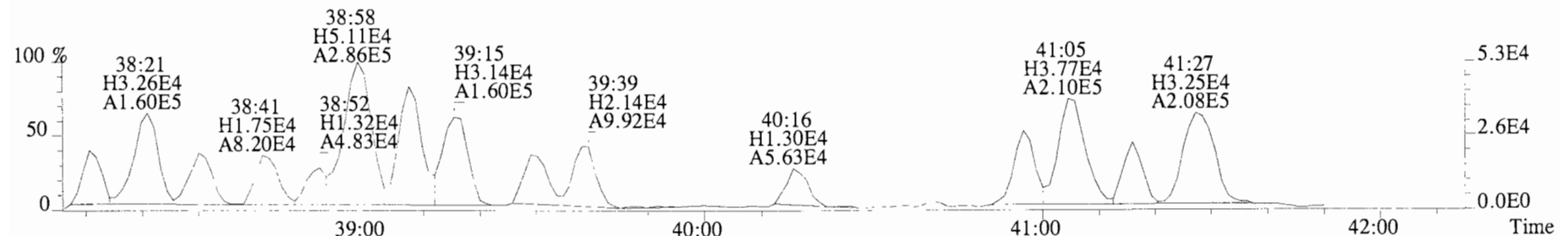
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



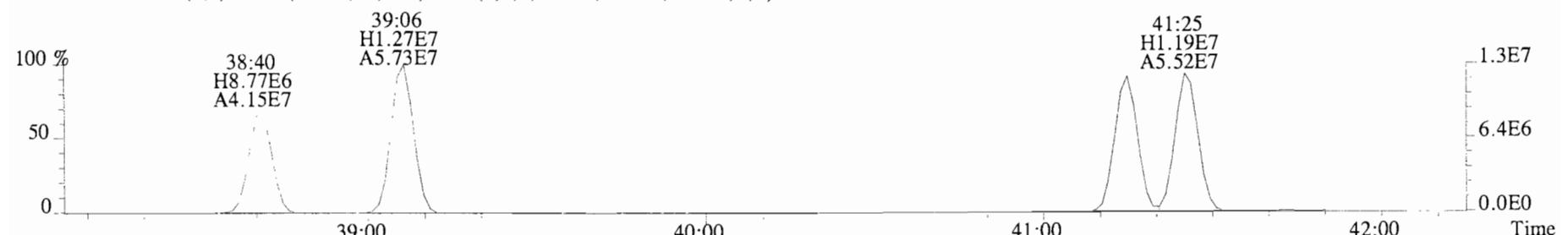
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



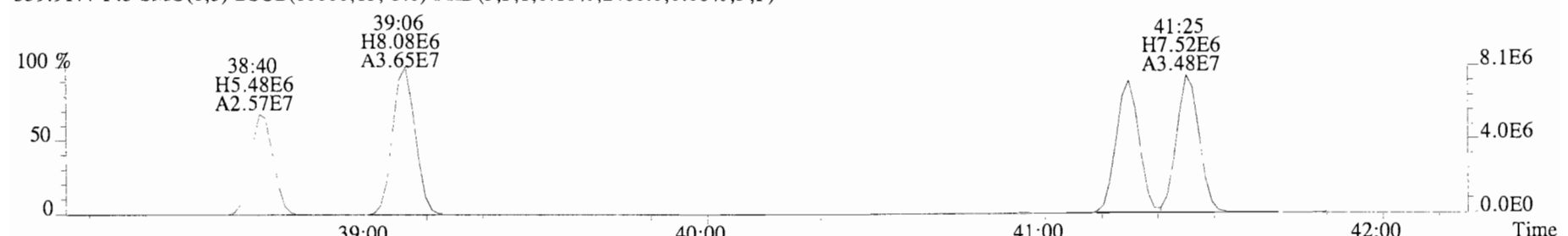
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



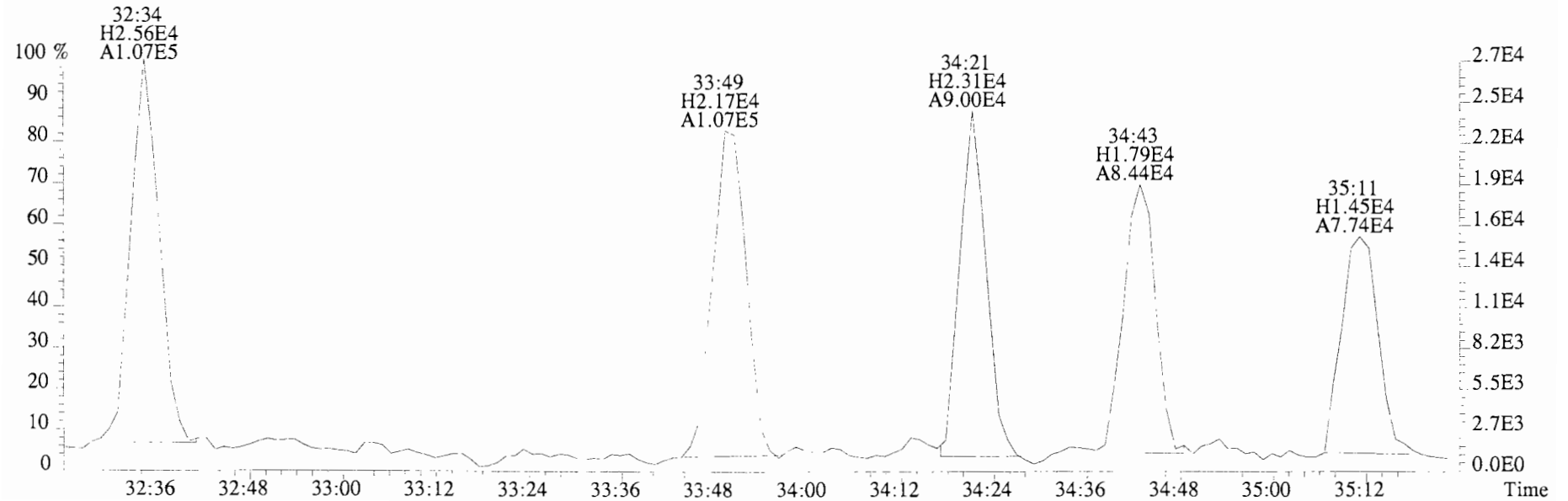
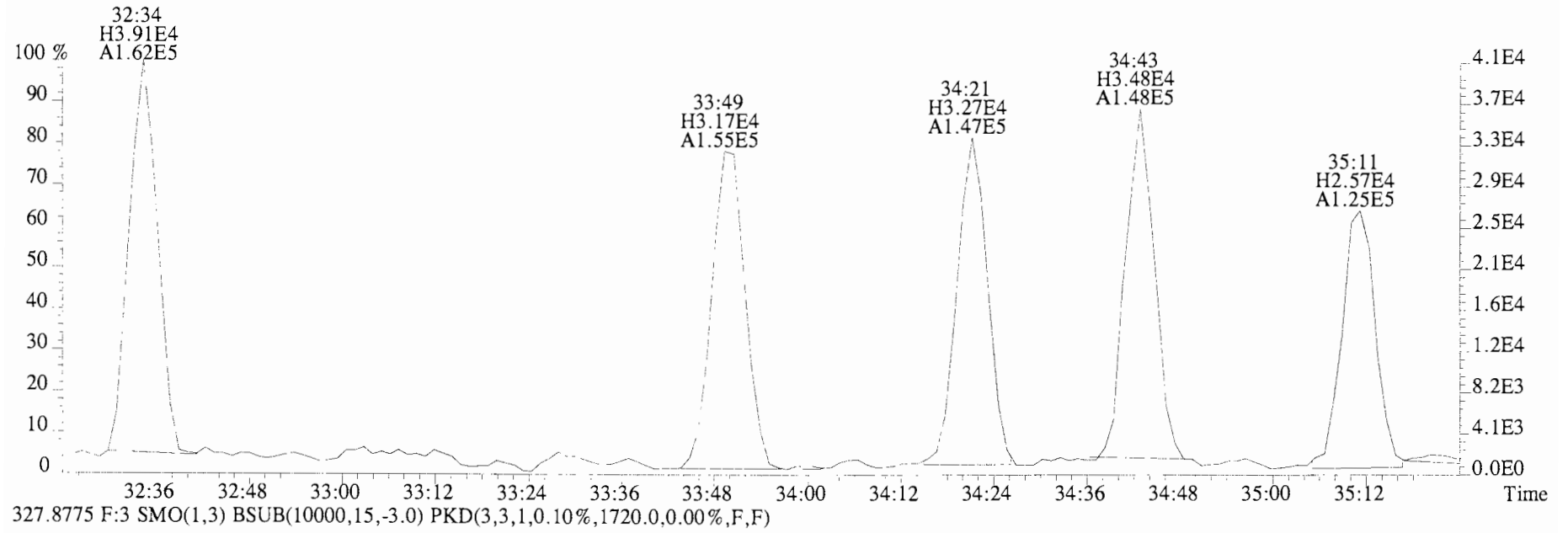
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2776.0,0.00%,F,F)



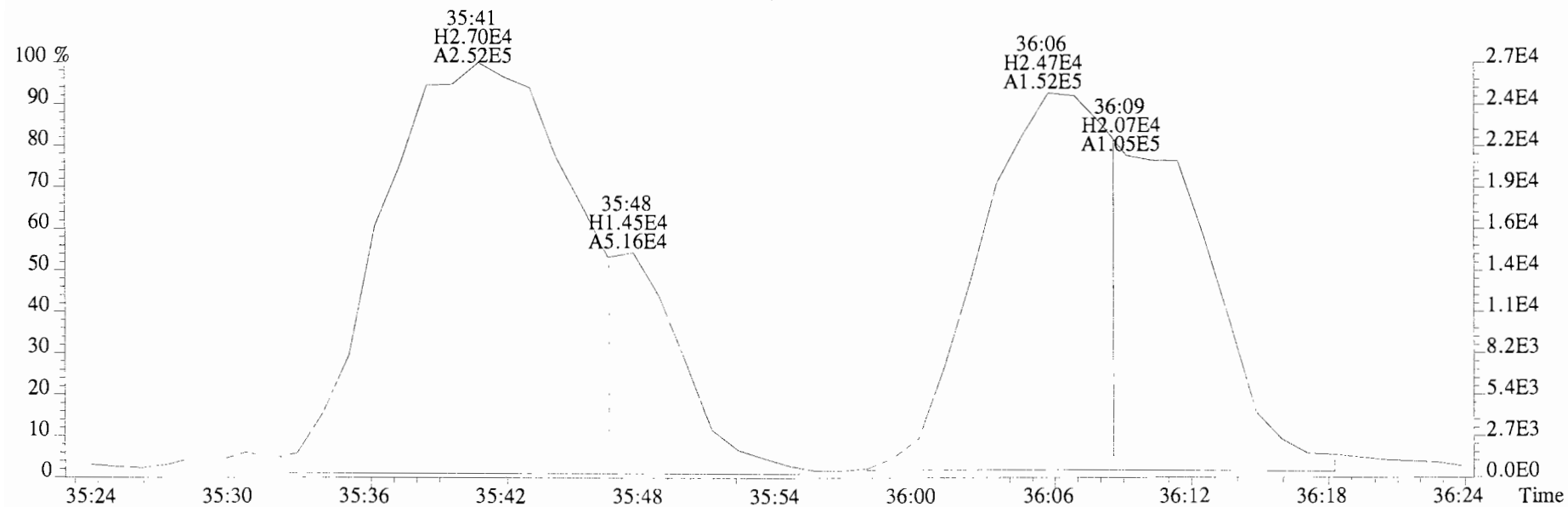
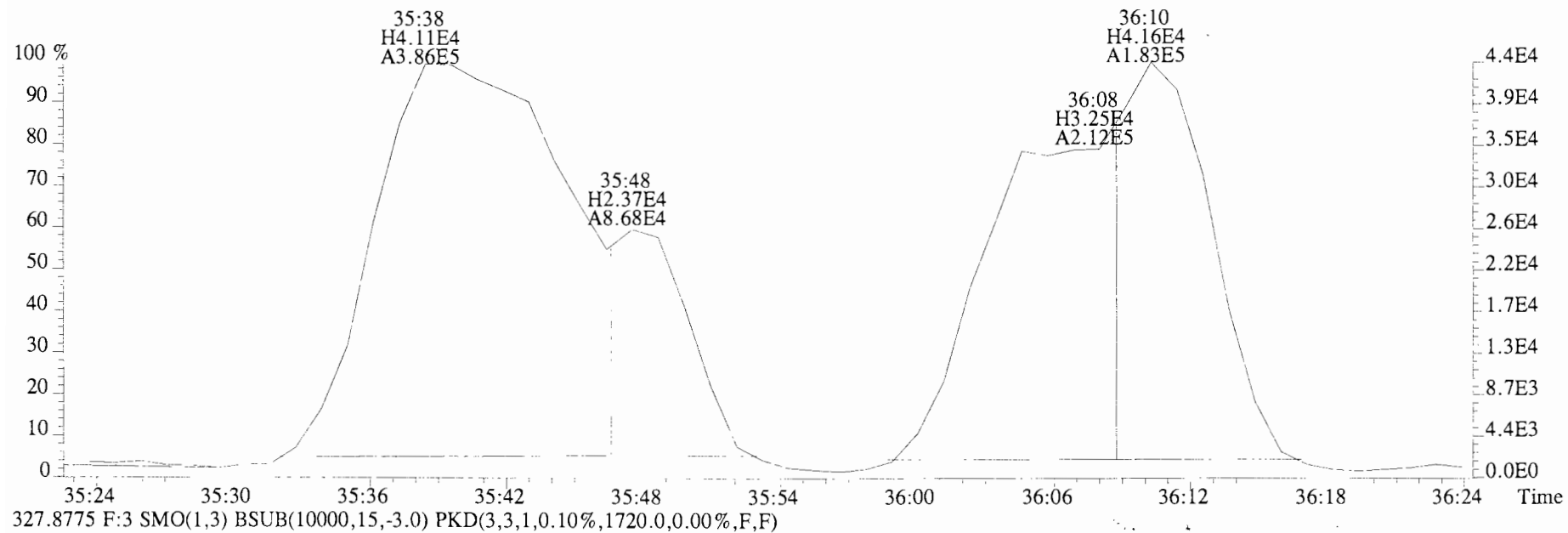
339.9177 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)

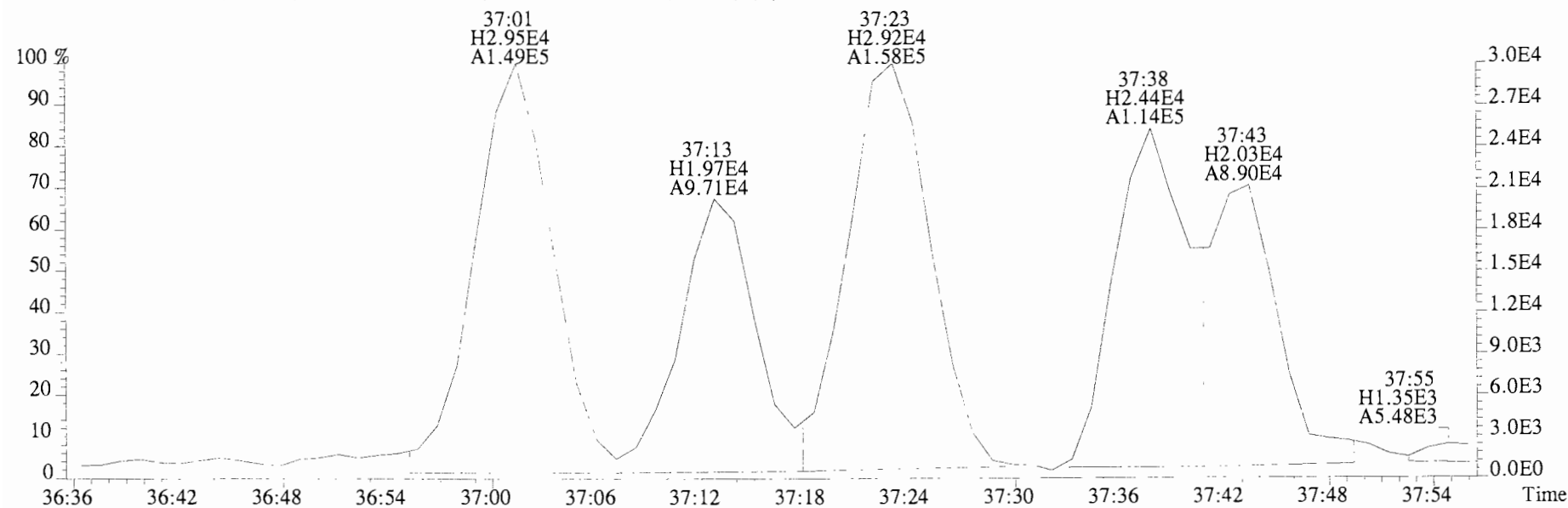
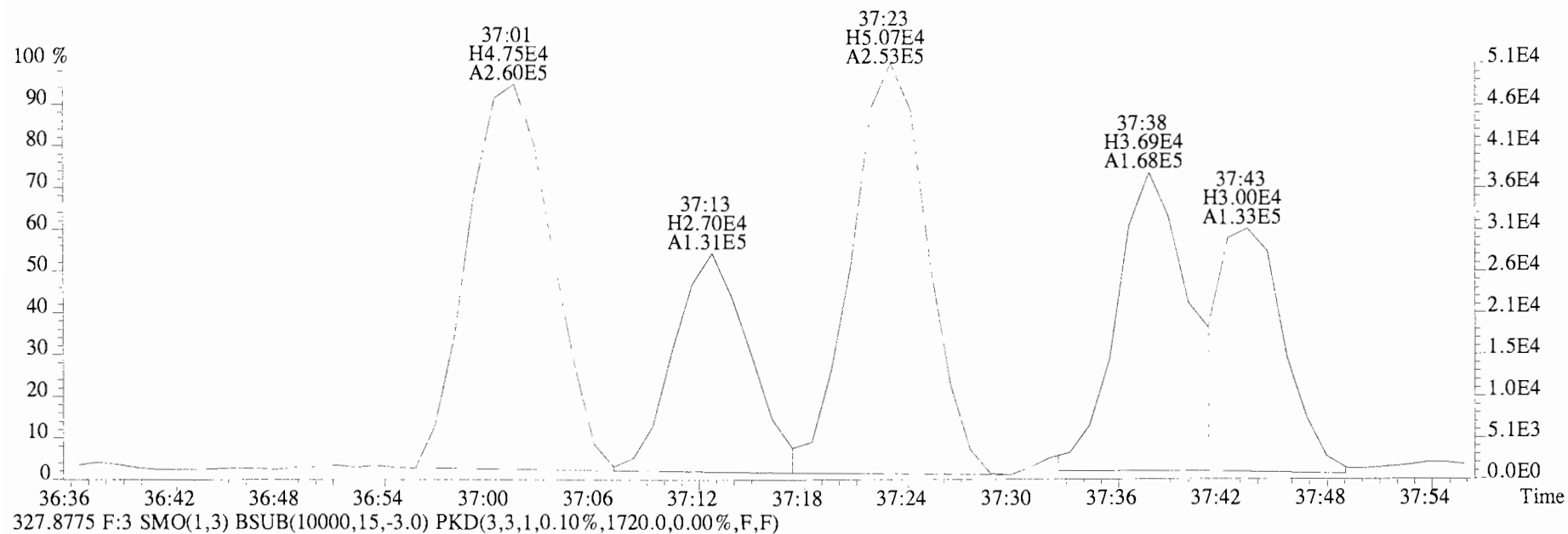


File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)

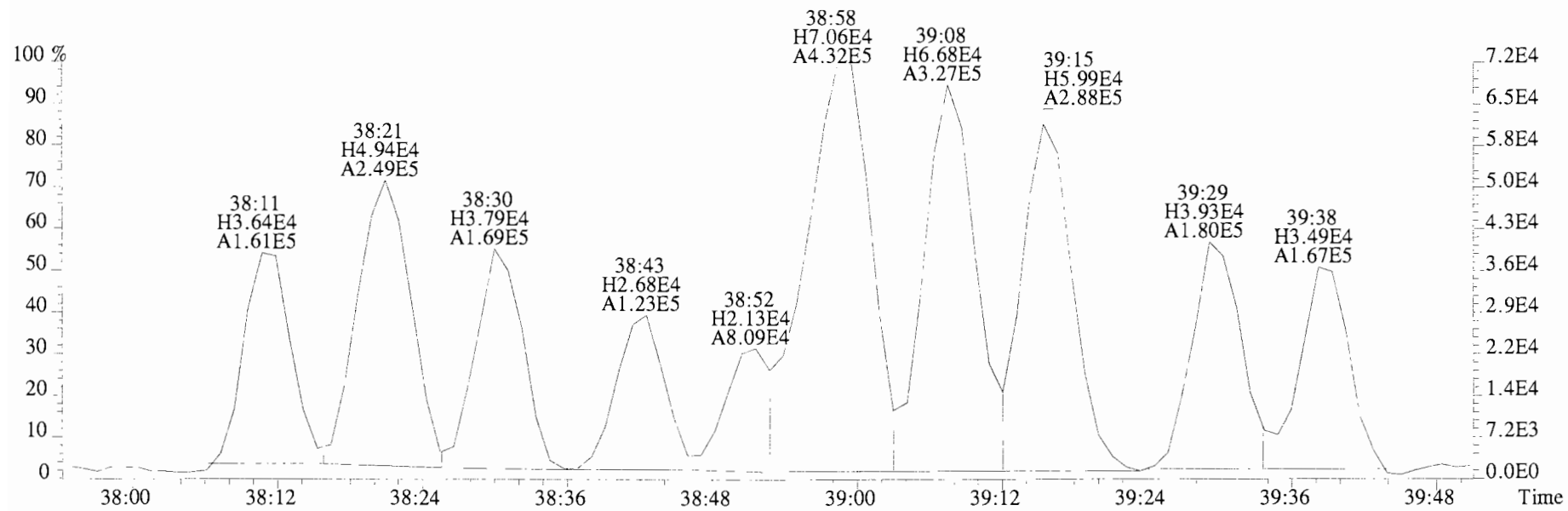




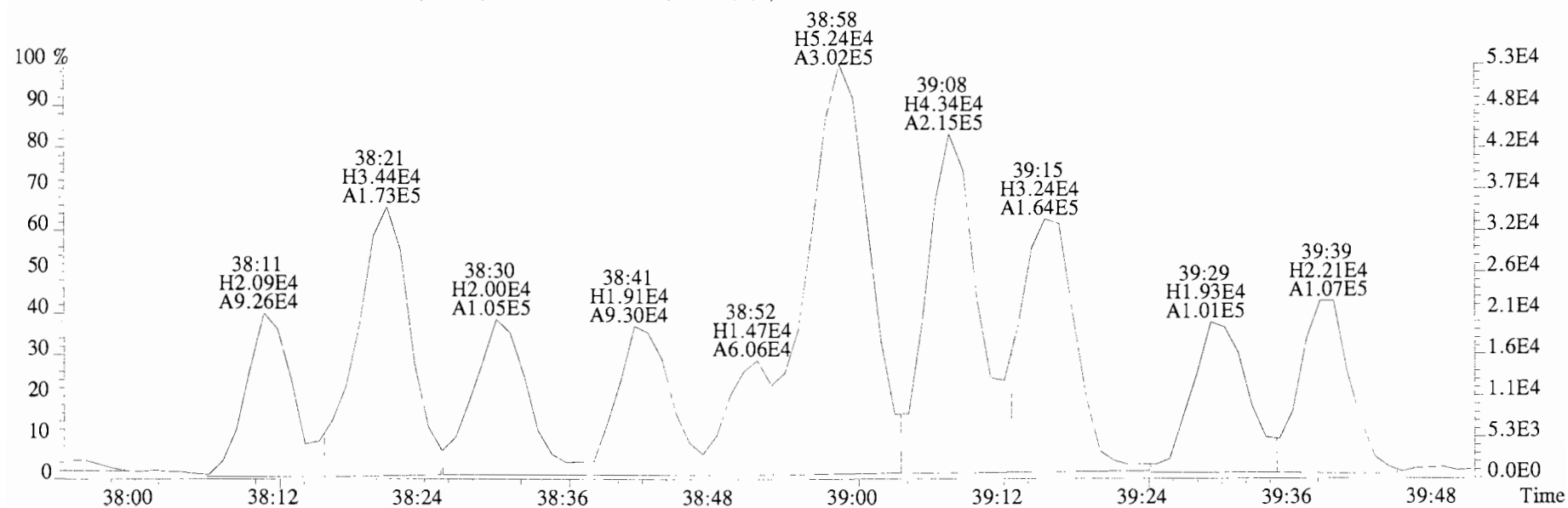
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



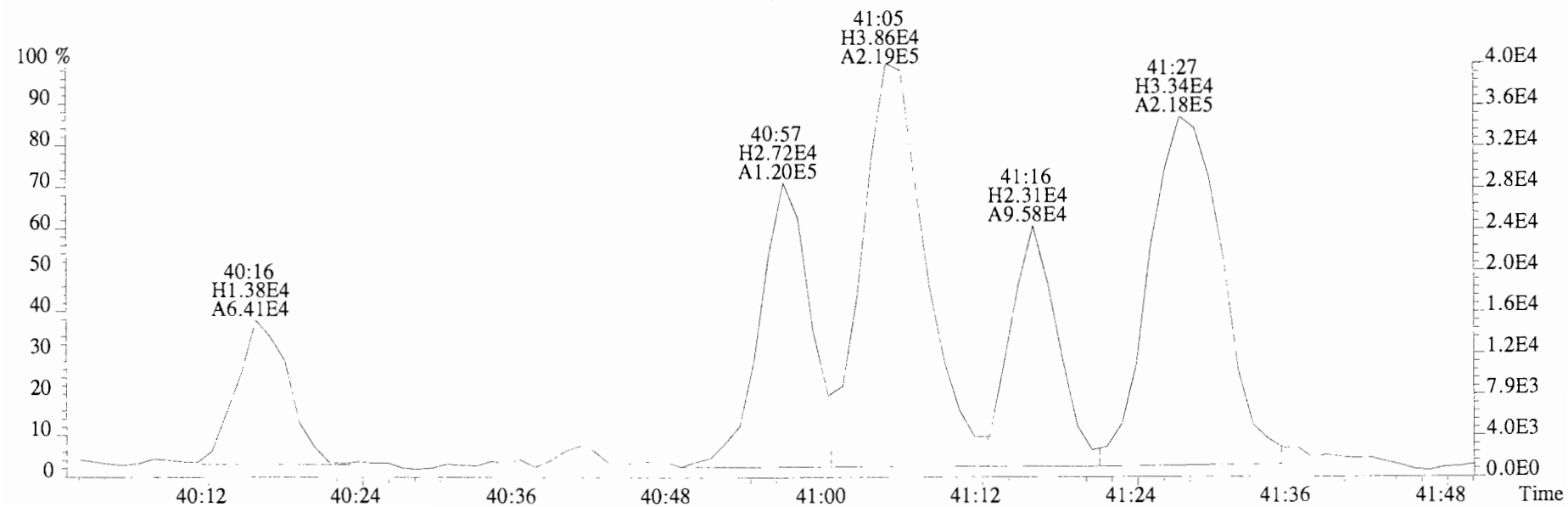
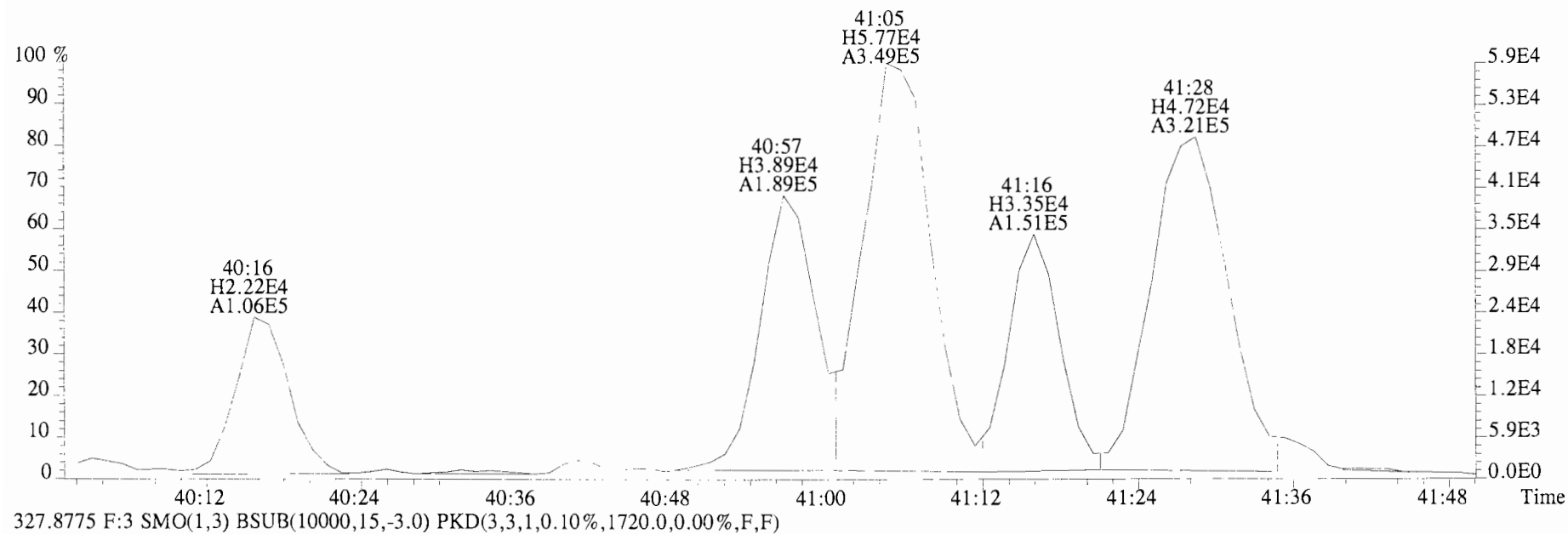
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



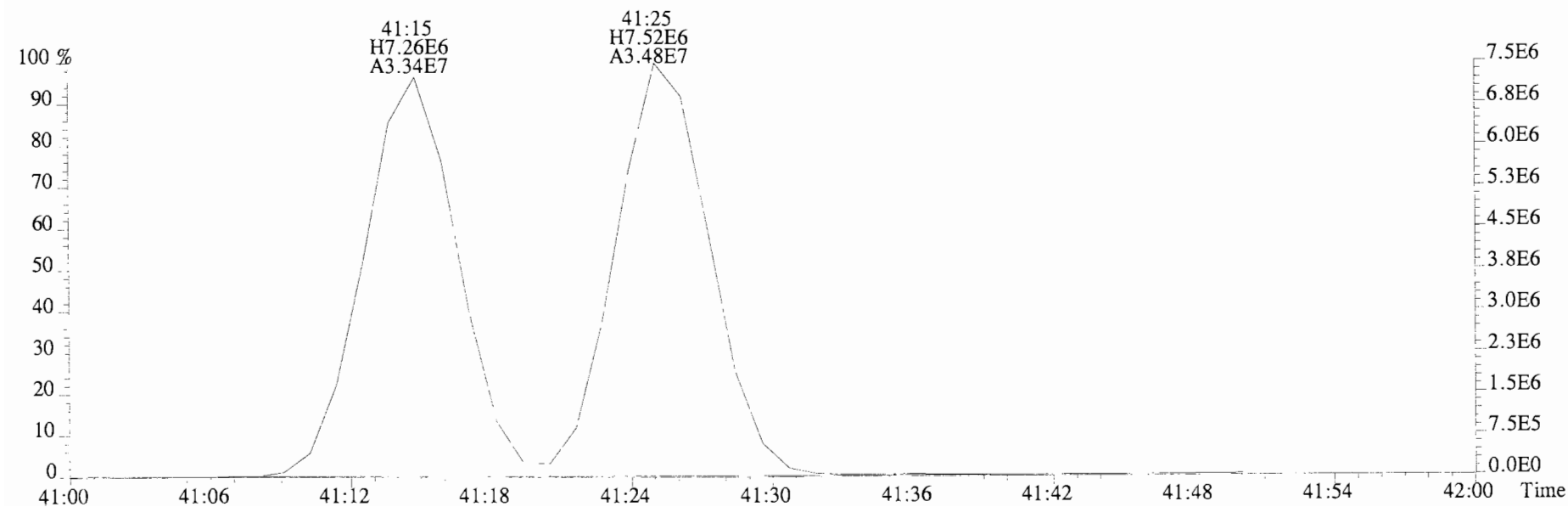
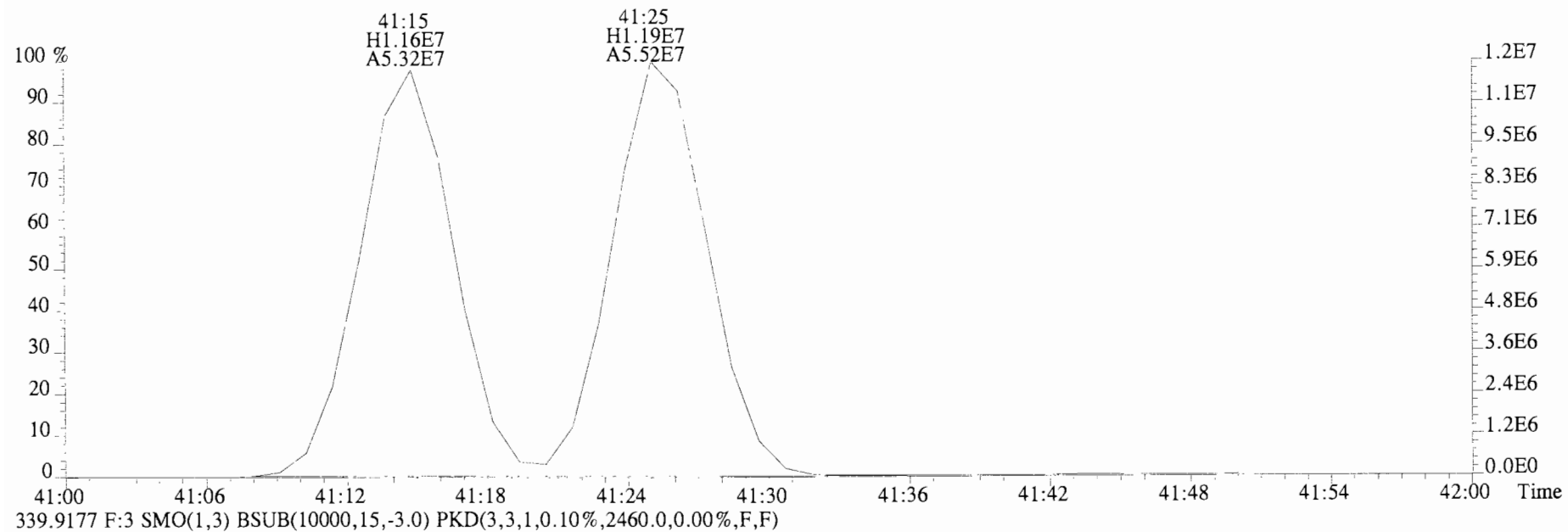
327.8775 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



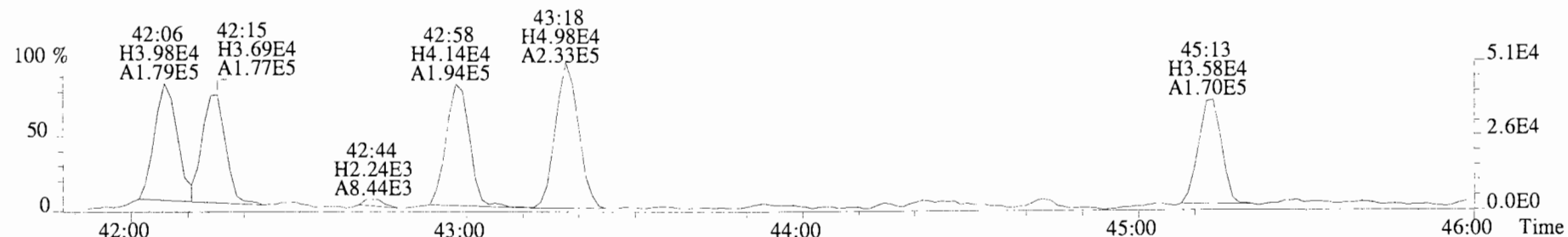
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
325.8804 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1768.0,0.00%,F,F)



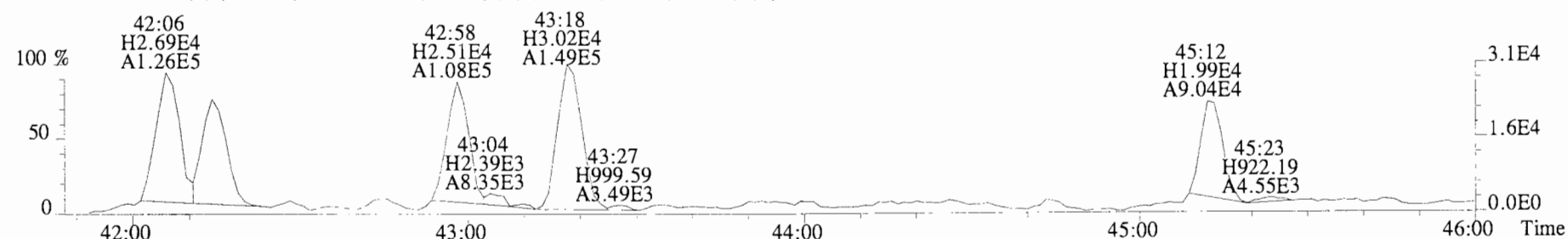
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
337.9207 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2776.0,0.00%,F,F)



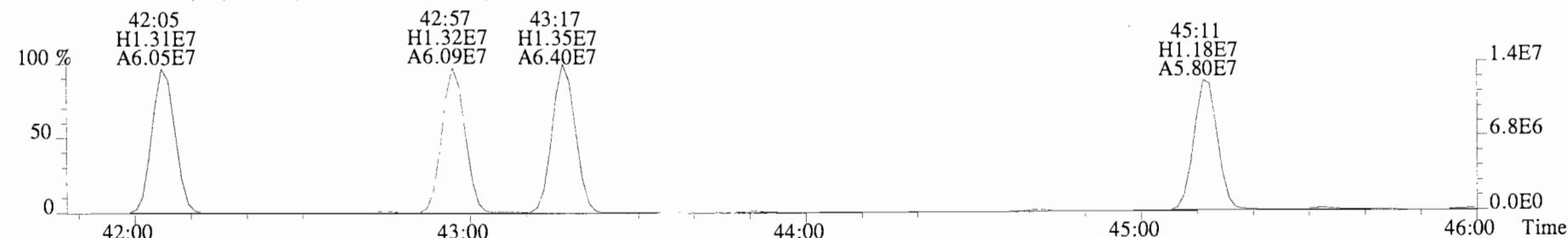
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2284.0,0.00%,F,F)



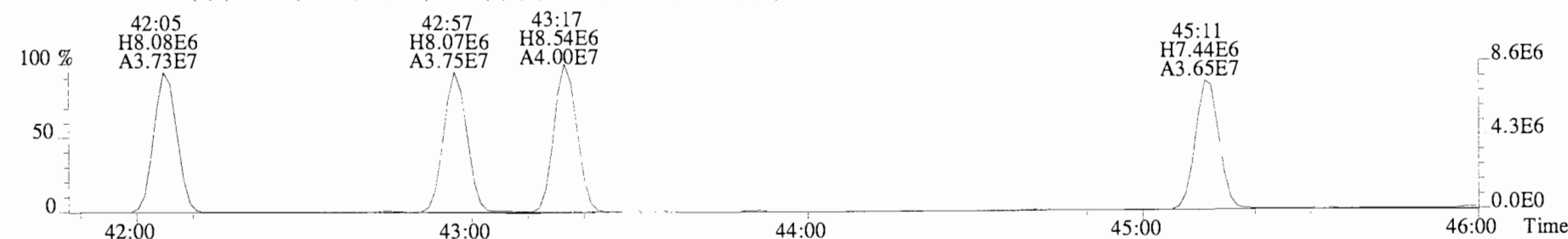
327.8775 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



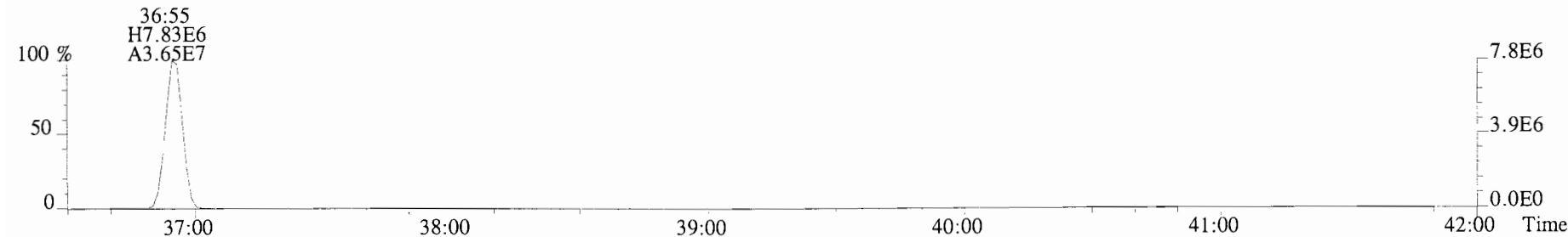
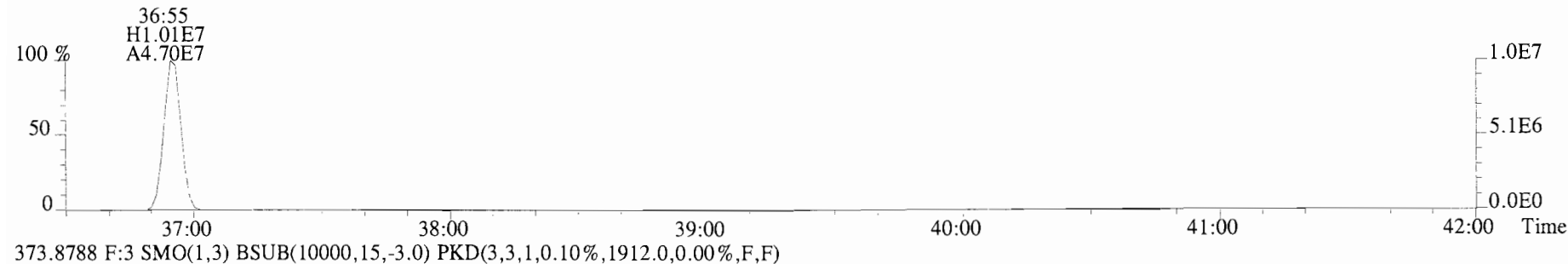
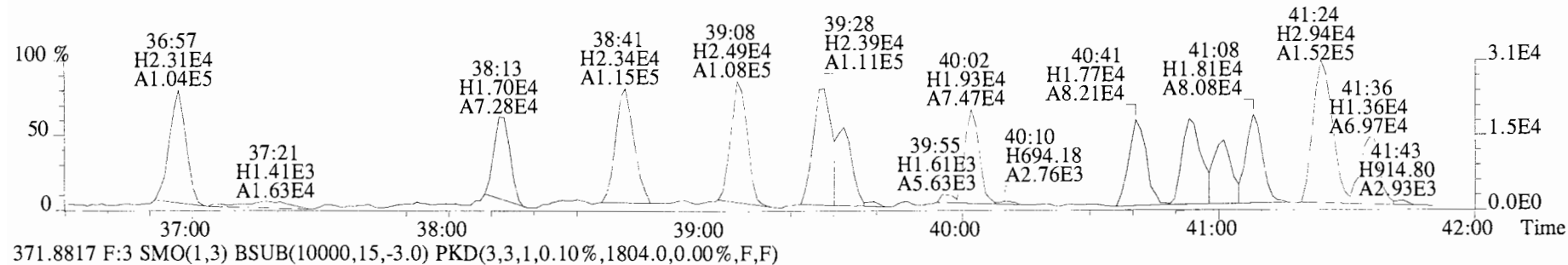
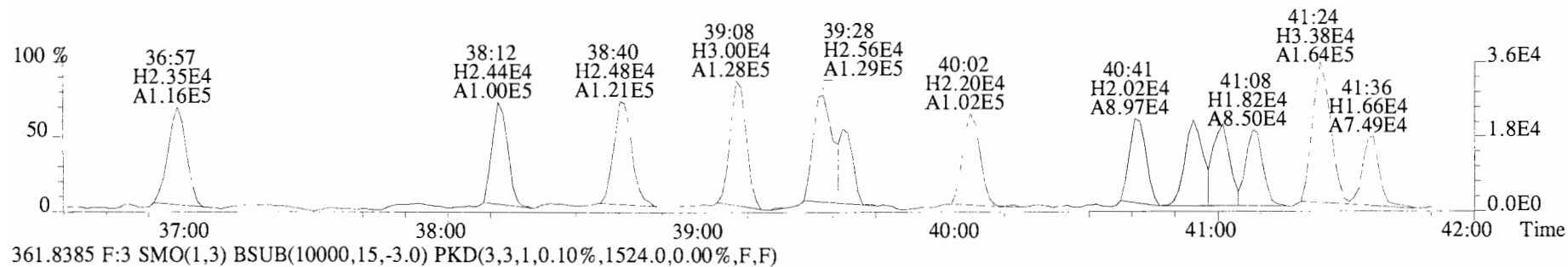
337.9207 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9128.0,0.00%,F,F)



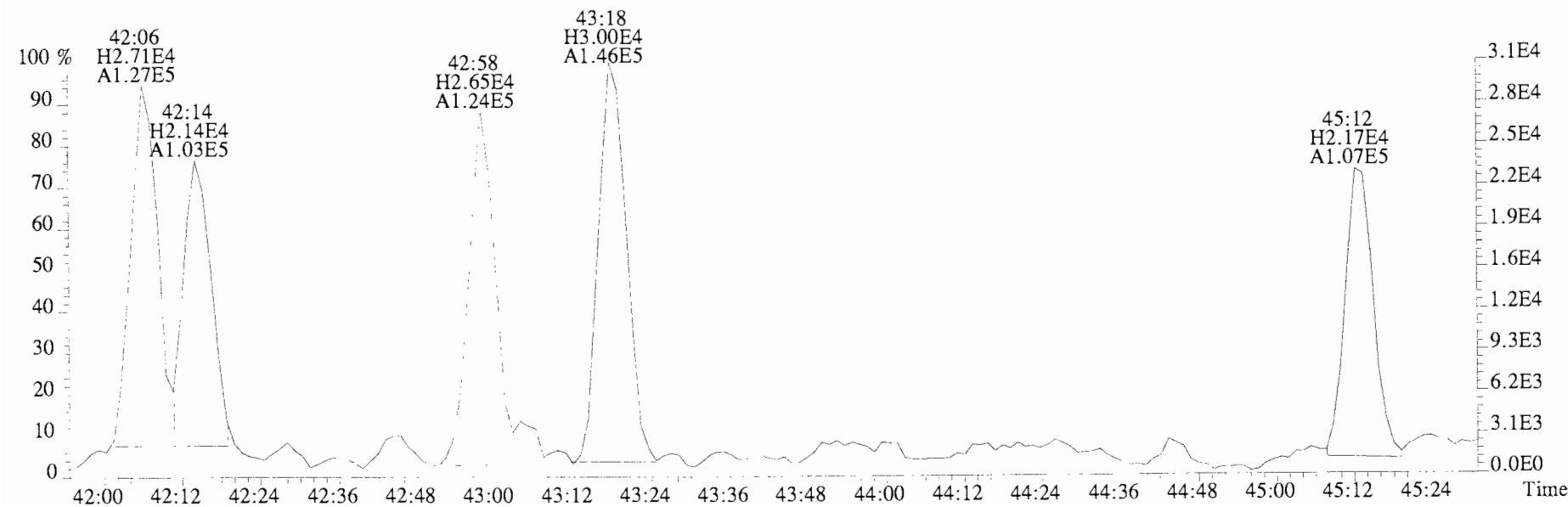
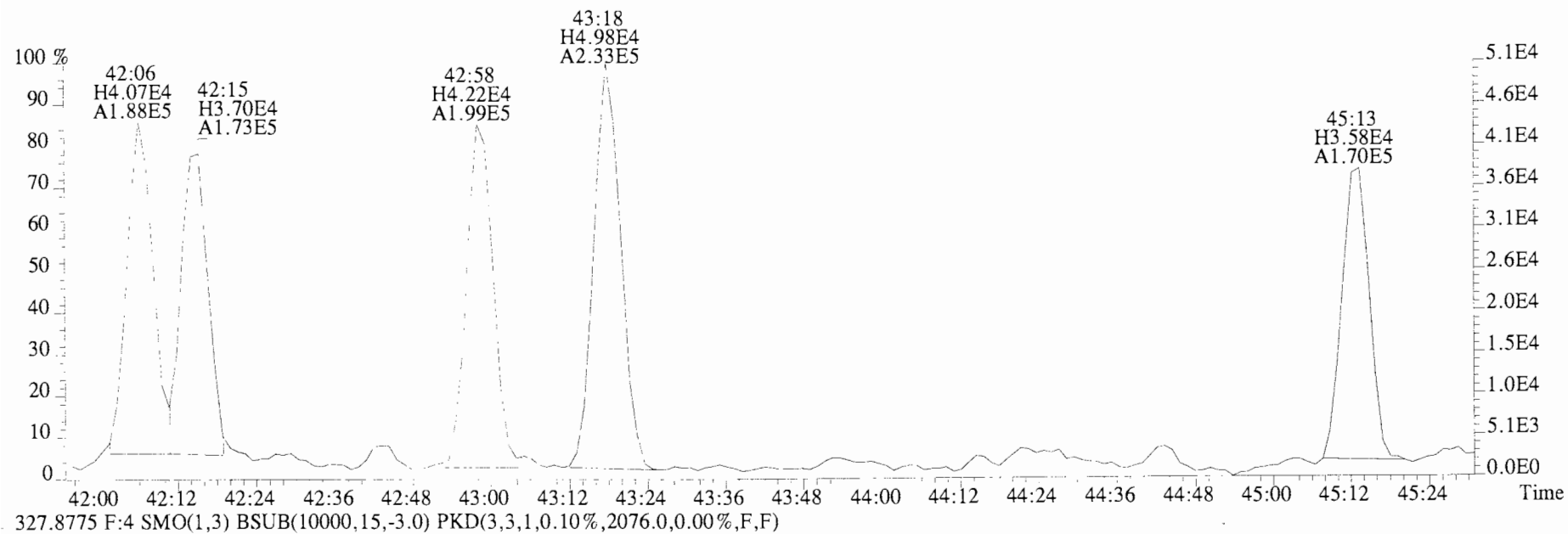
339.9177 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6172.0,0.00%,F,F)



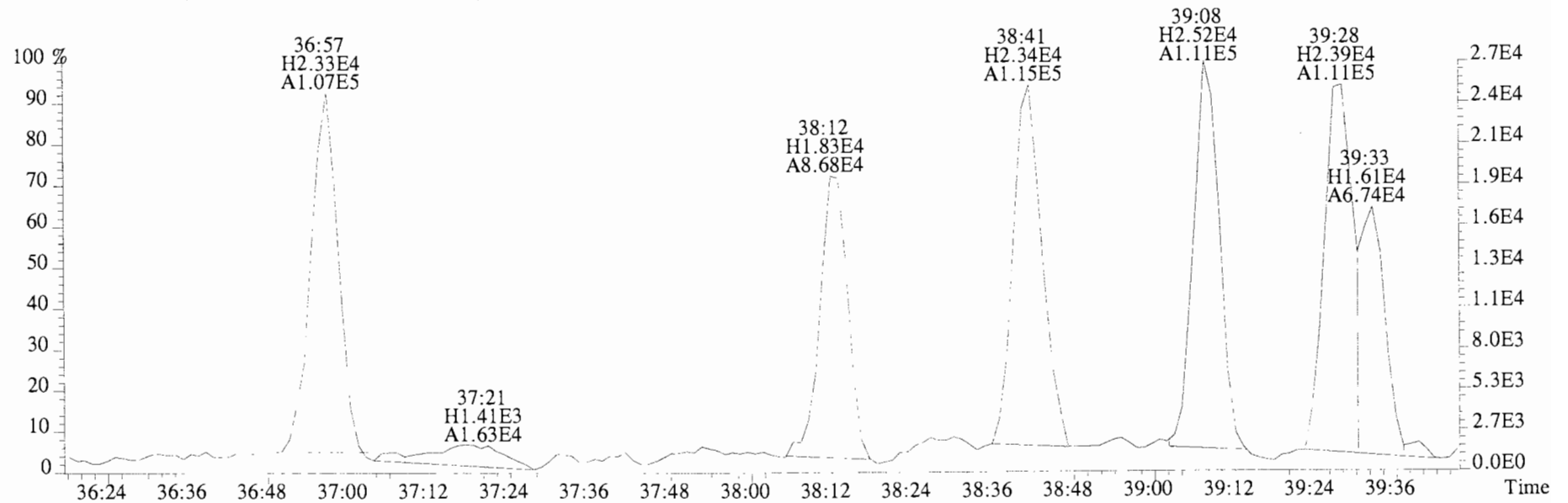
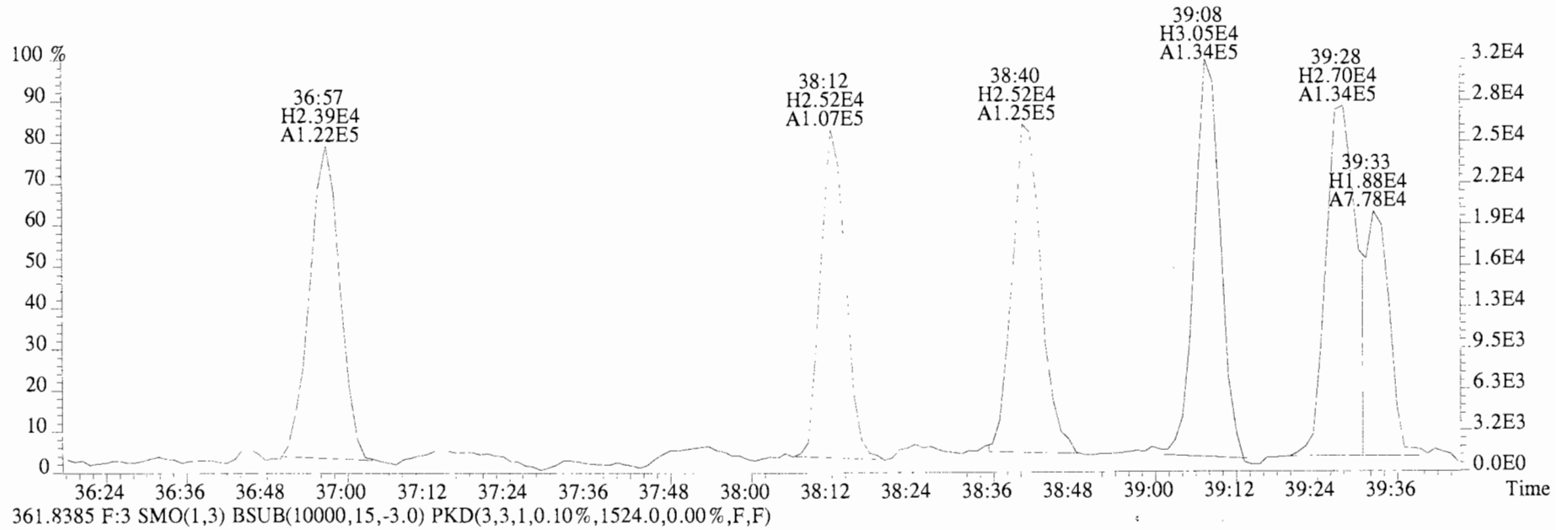
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 325.8804 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2284.0,0.00%,F,F)

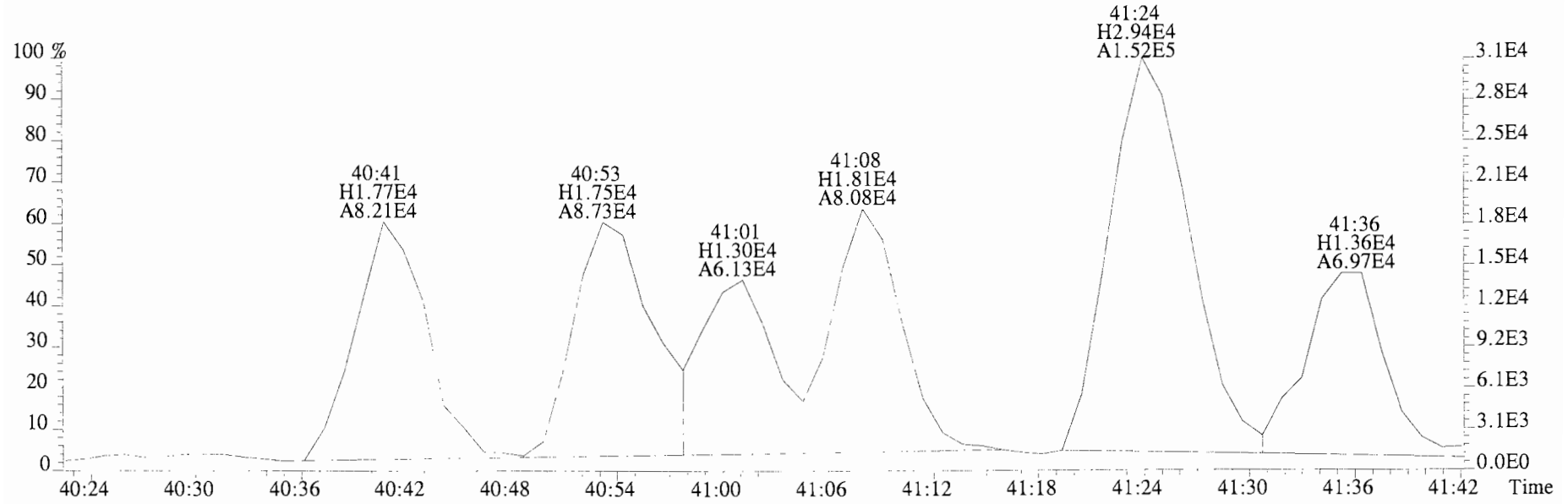
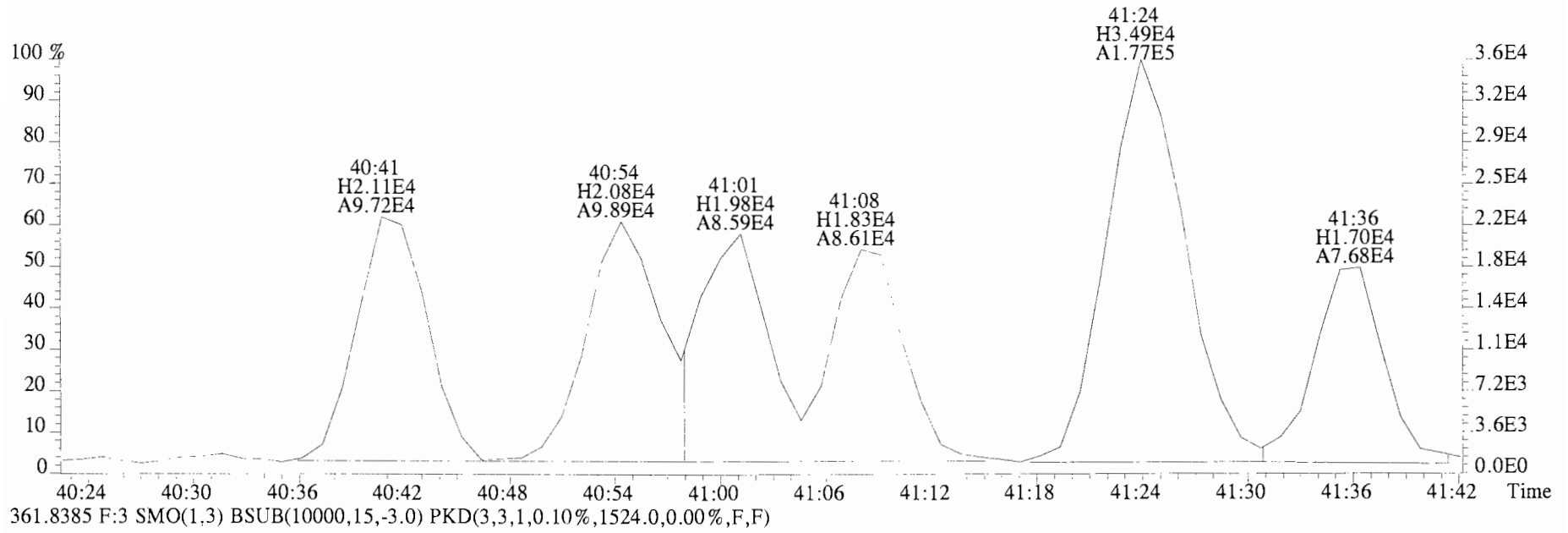


File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)

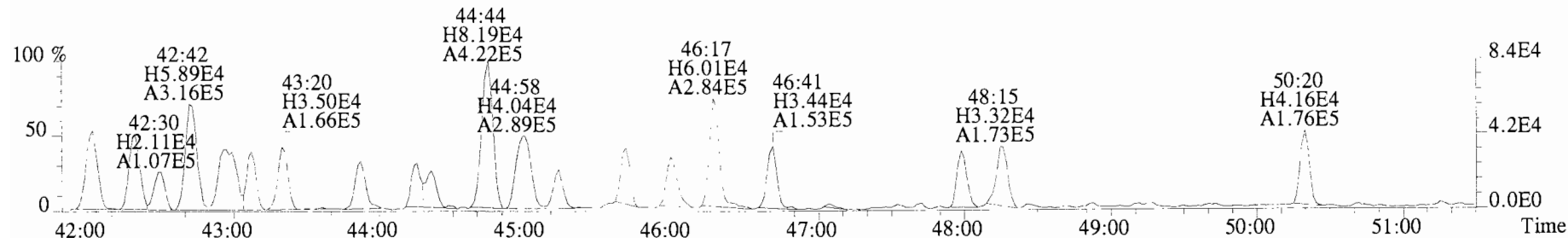




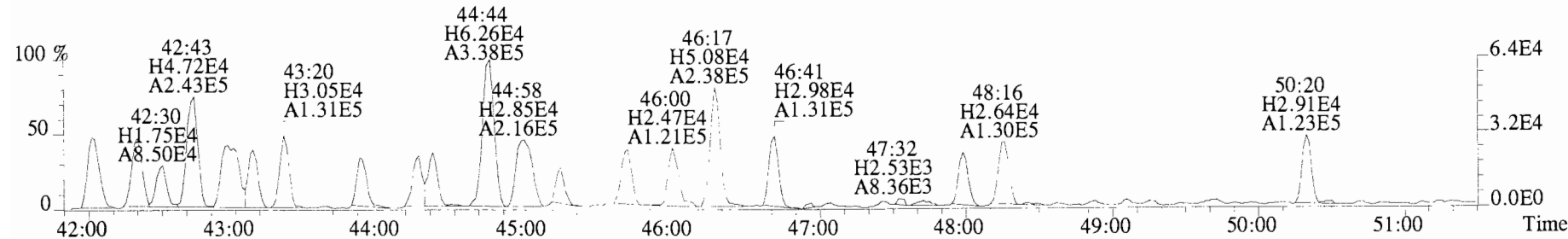
File:140623E2 #1-760 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
359.8415 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



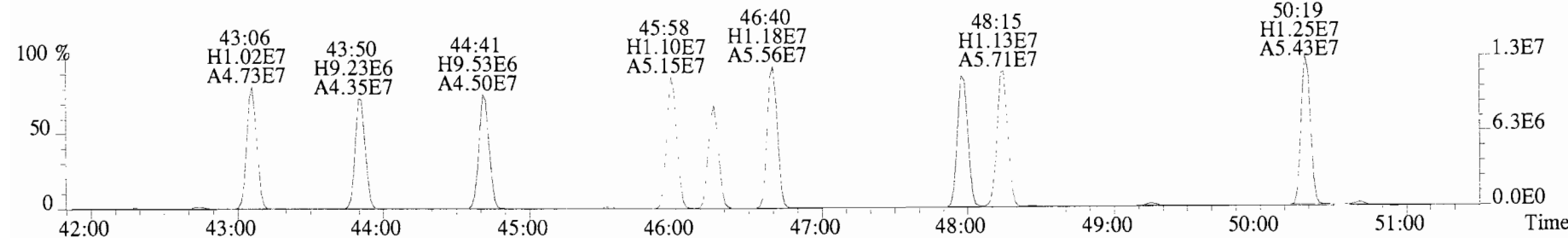
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



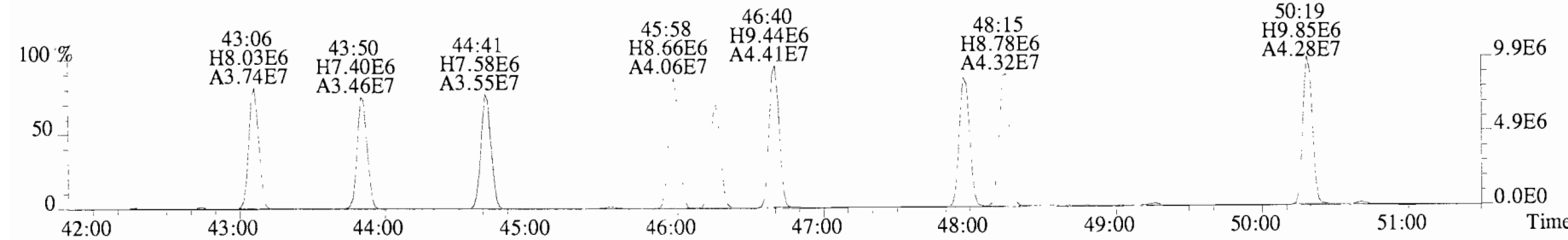
361.8385 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1840.0,0.00%,F,F)



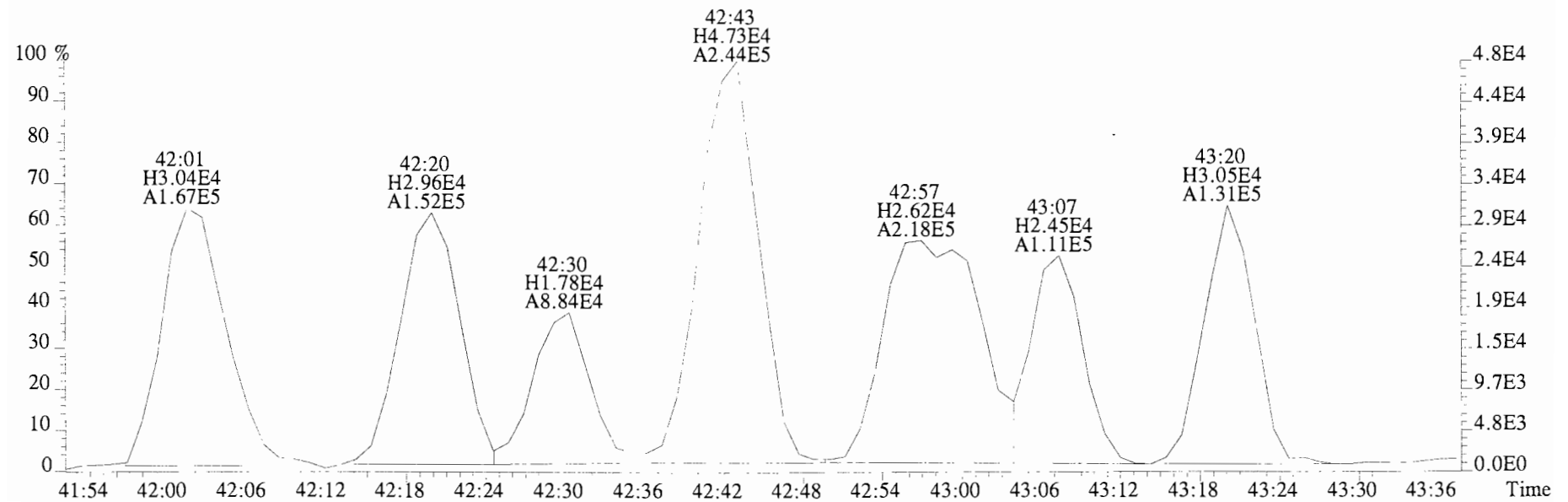
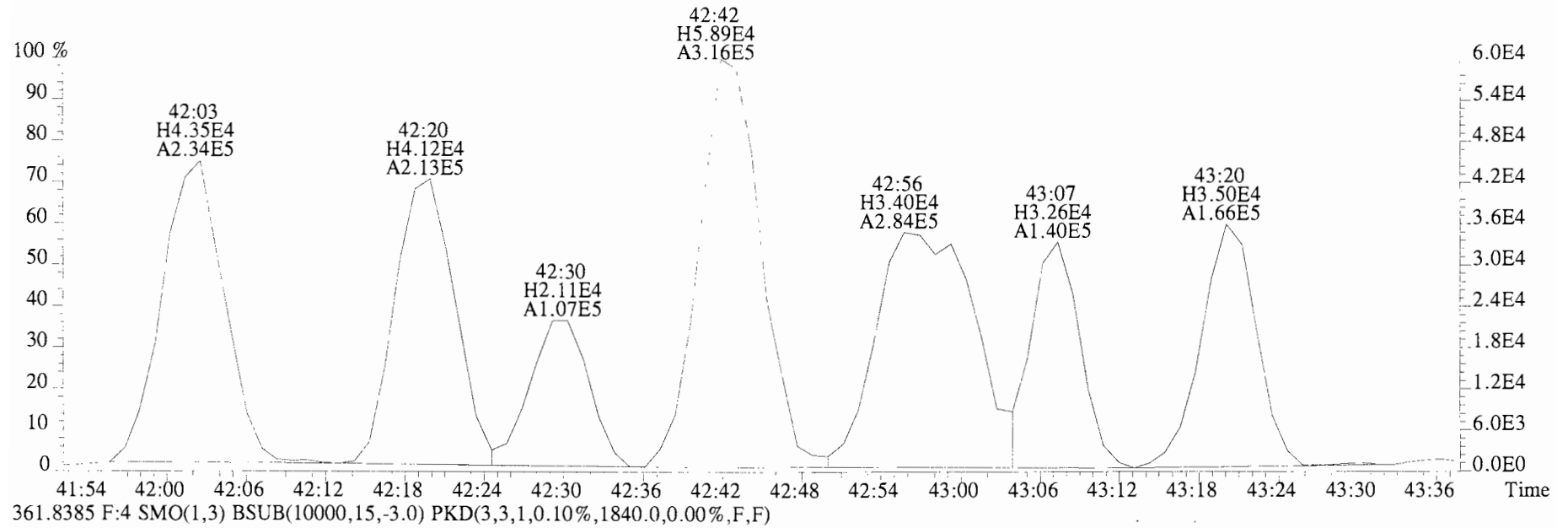
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13704.0,0.00%,F,F)



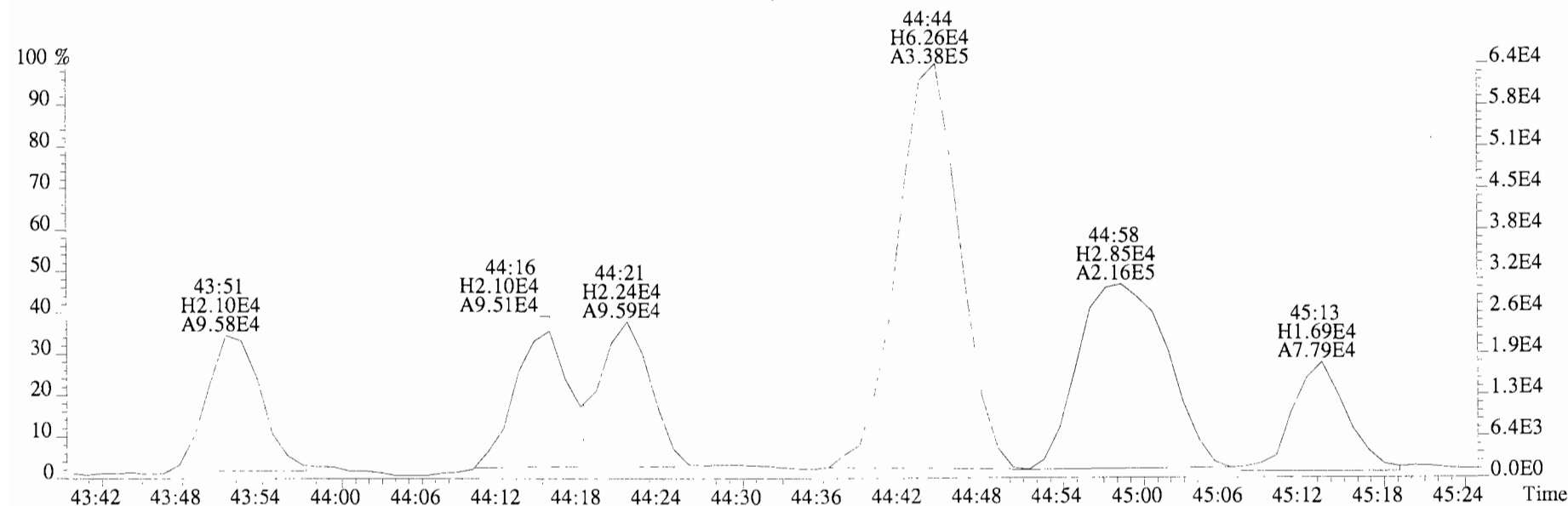
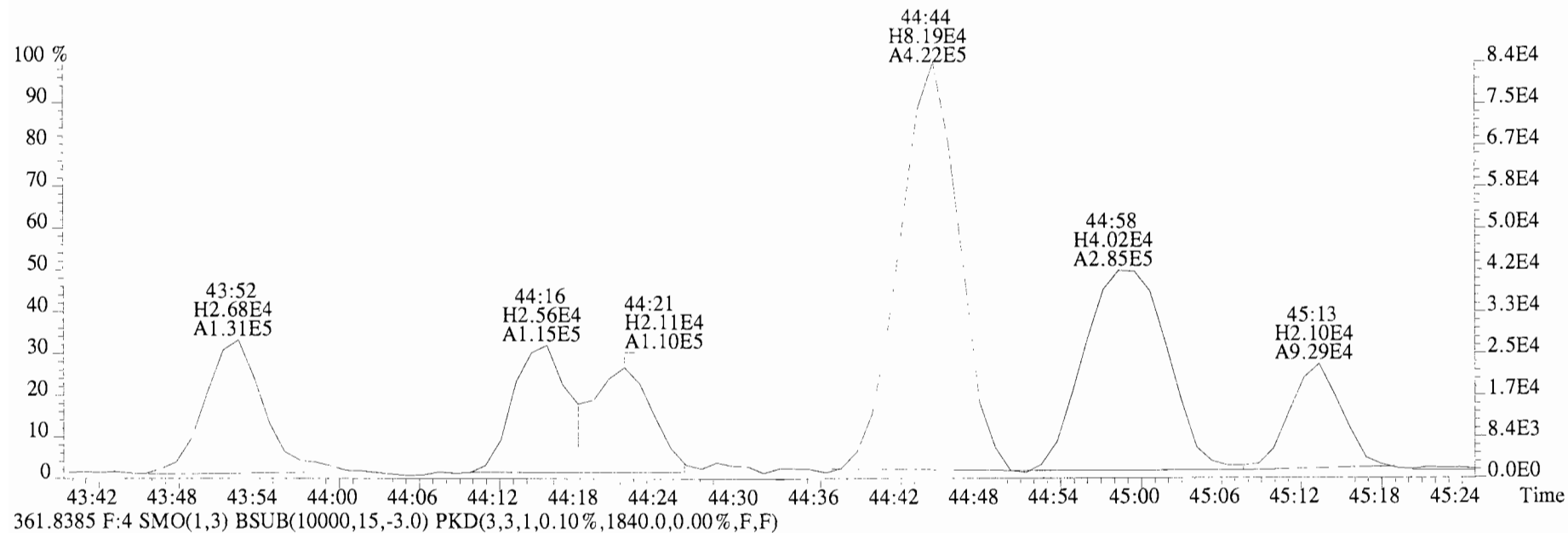
373.8788 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12412.0,0.00%,F,F)



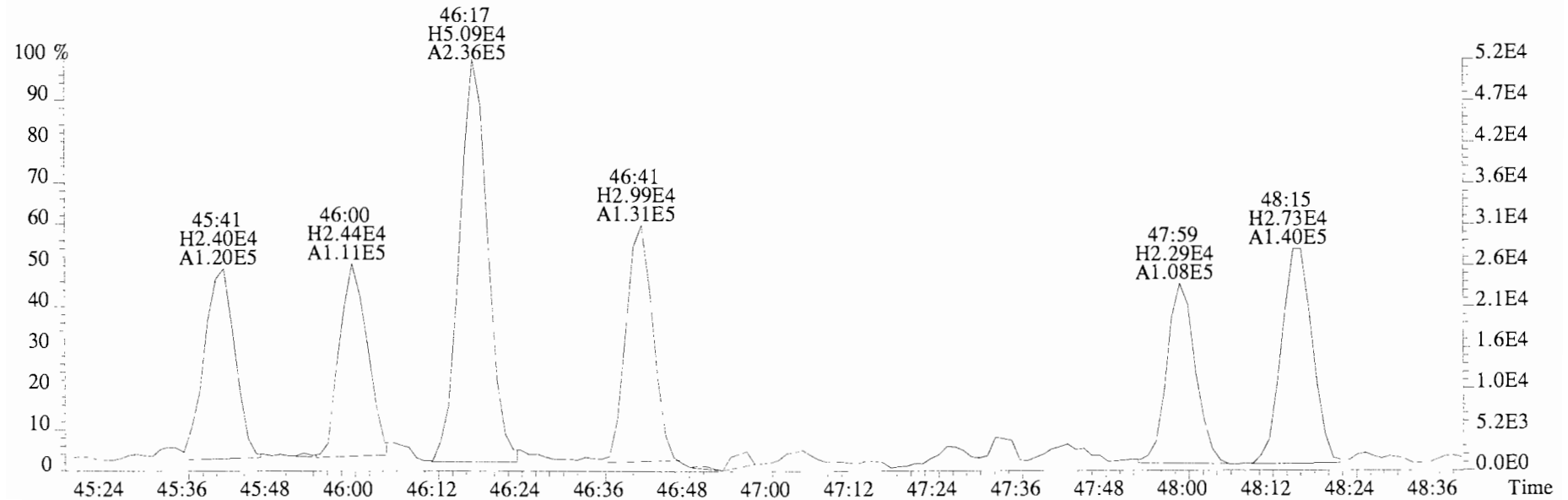
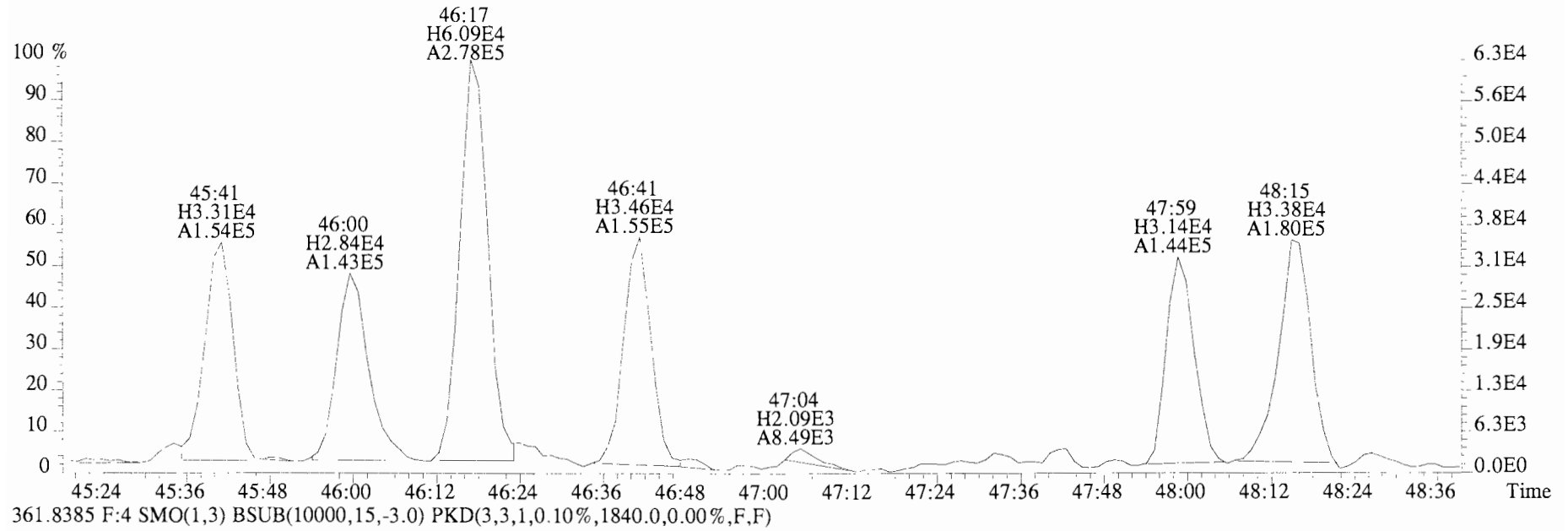
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



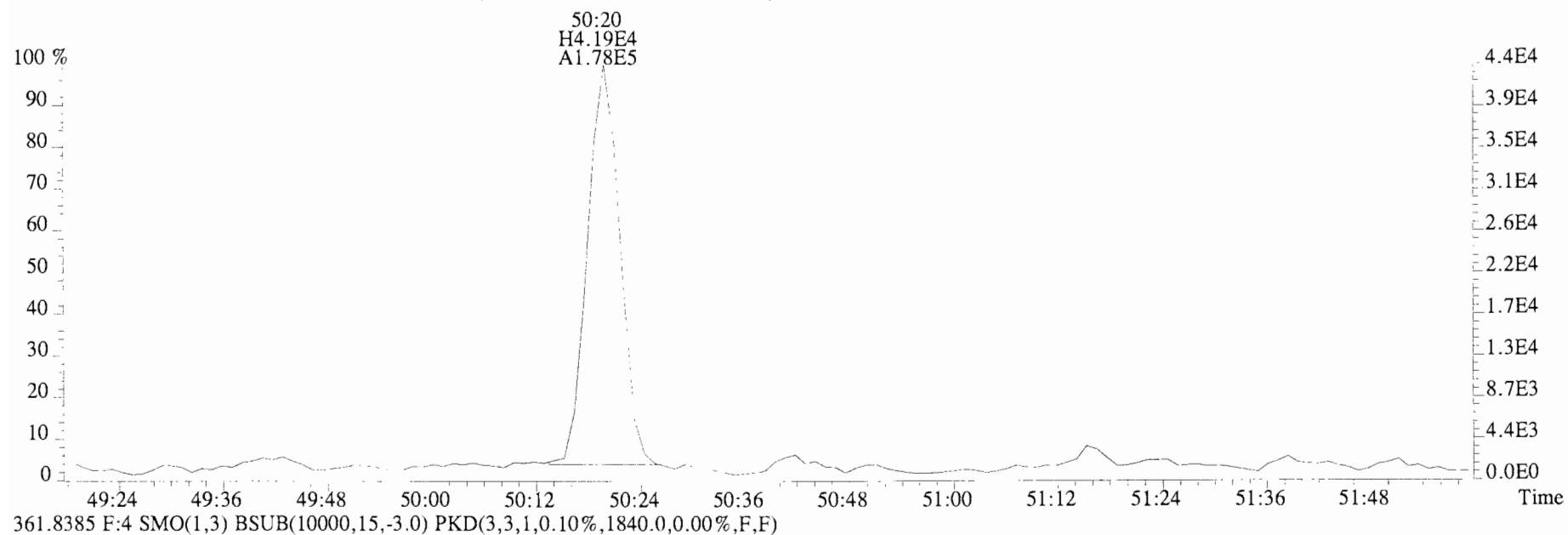
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



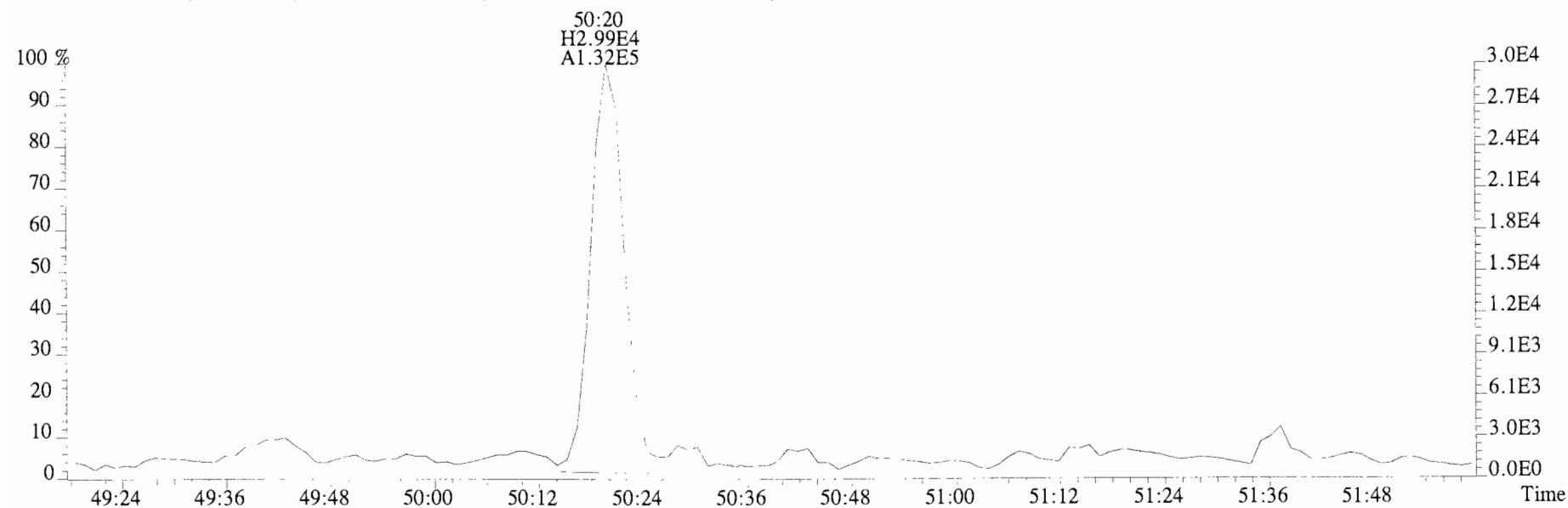
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



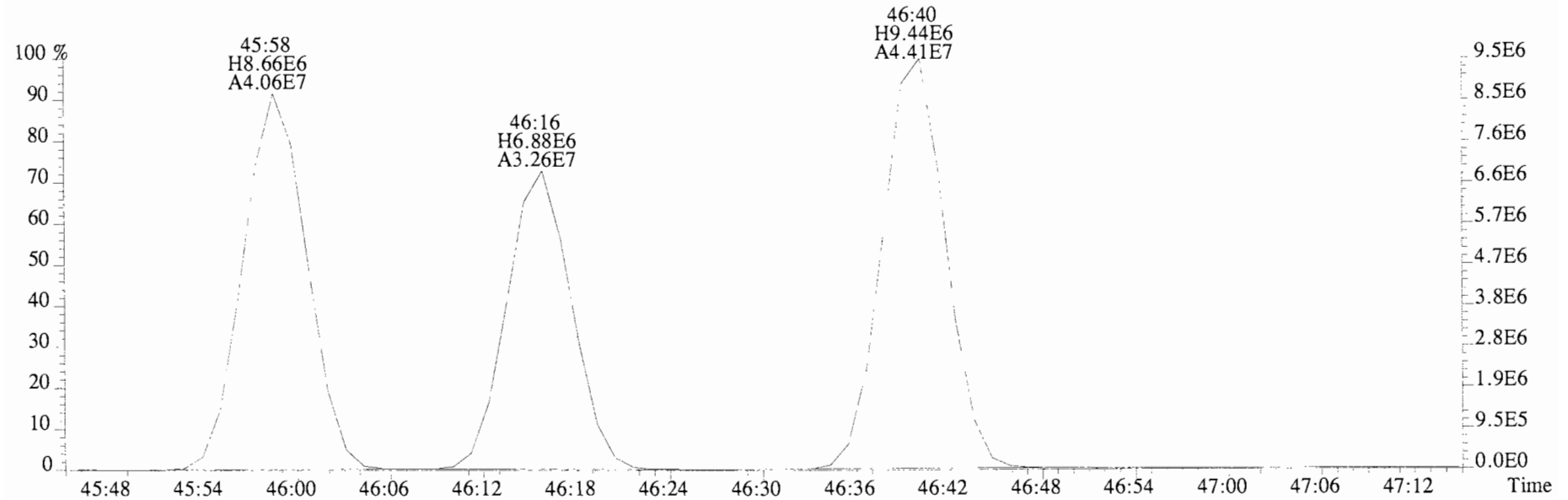
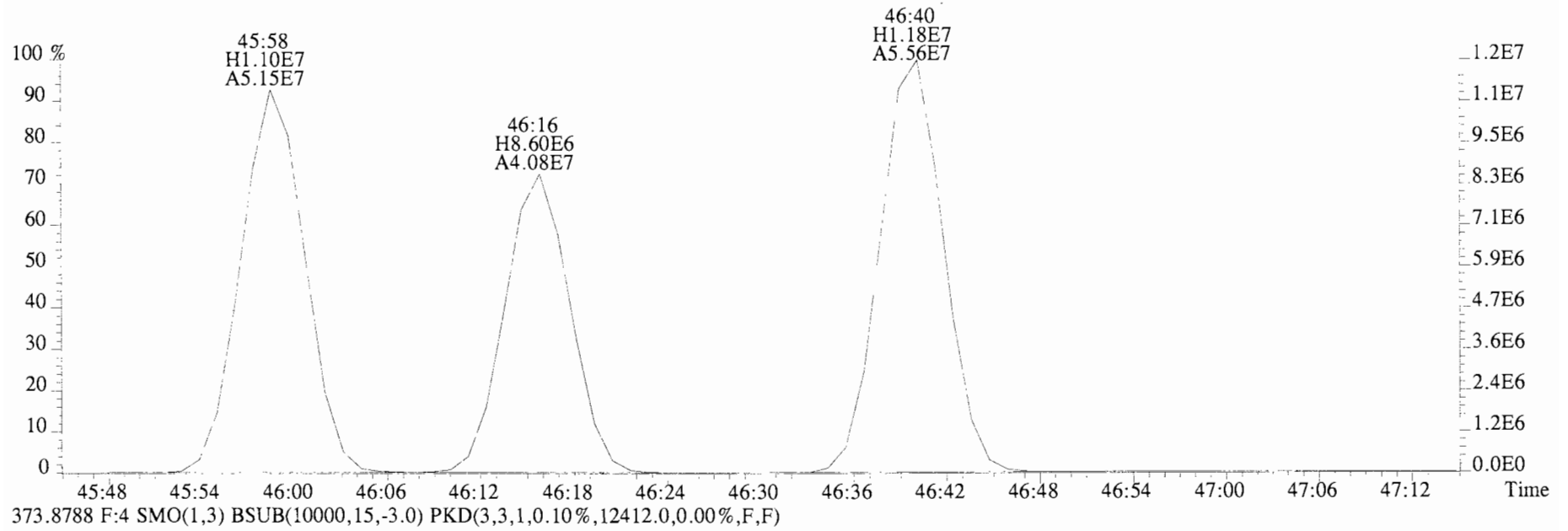
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
359.8415 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



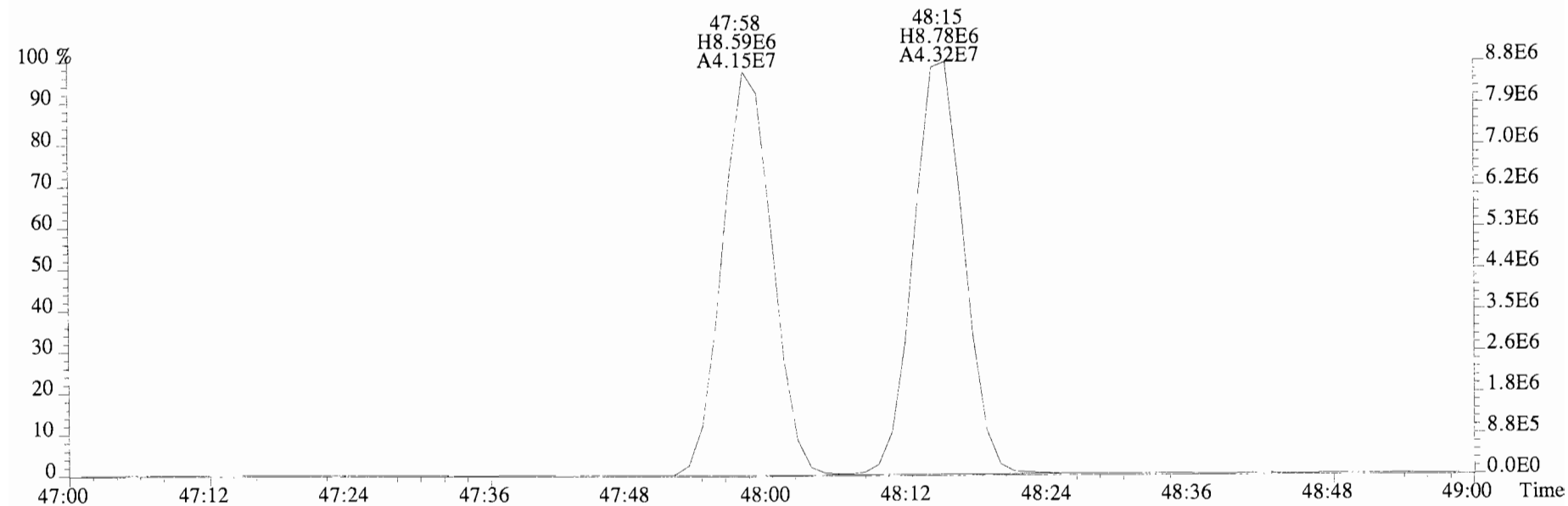
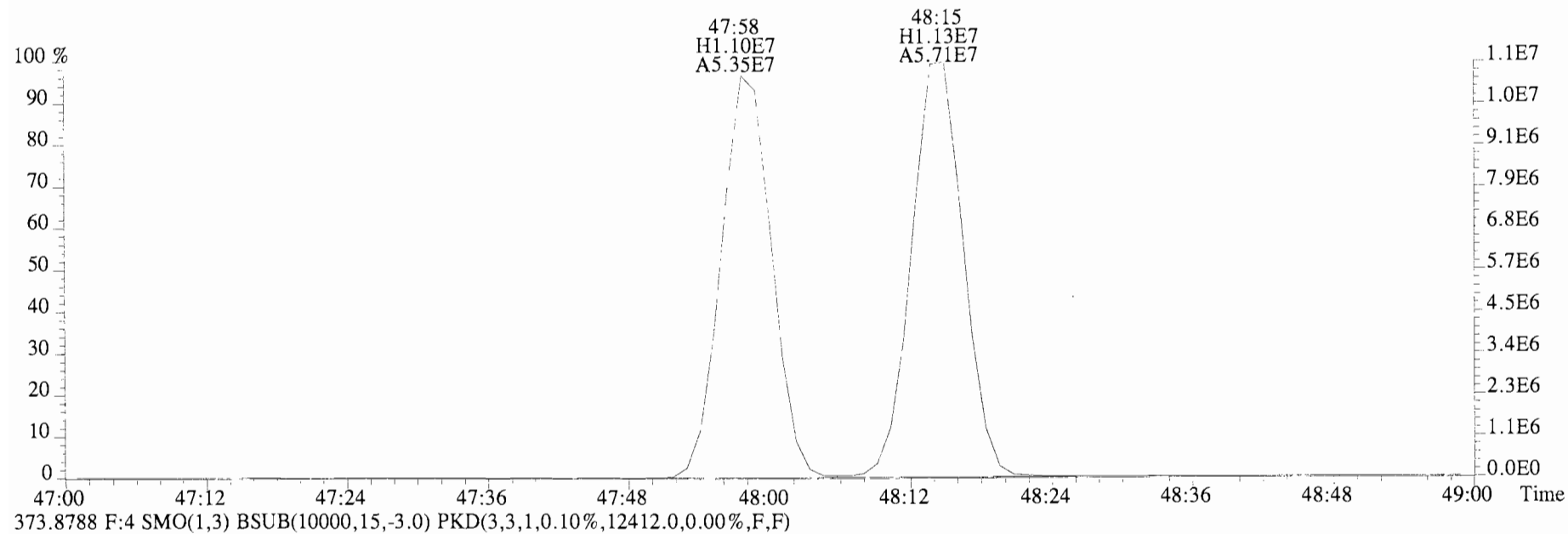
361.8385 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1840.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13704.0,0.00%,F,F)

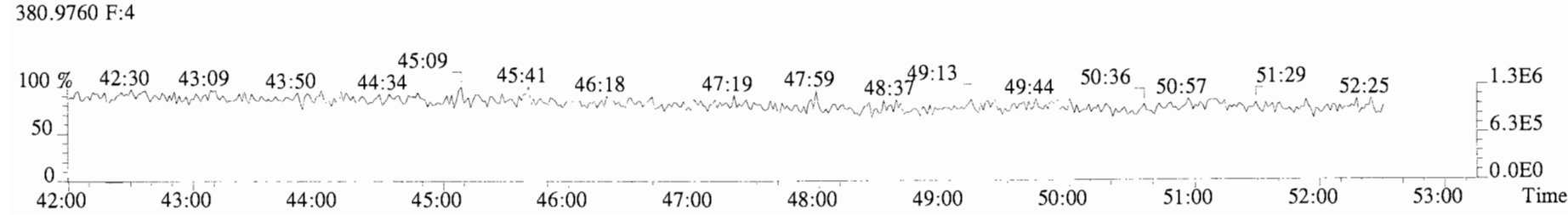
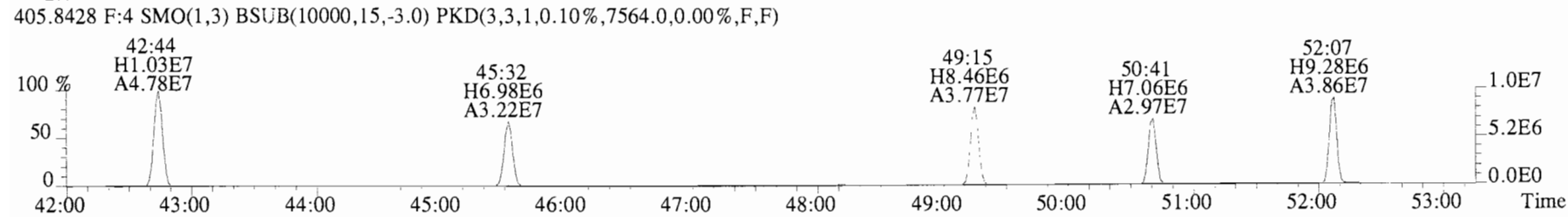
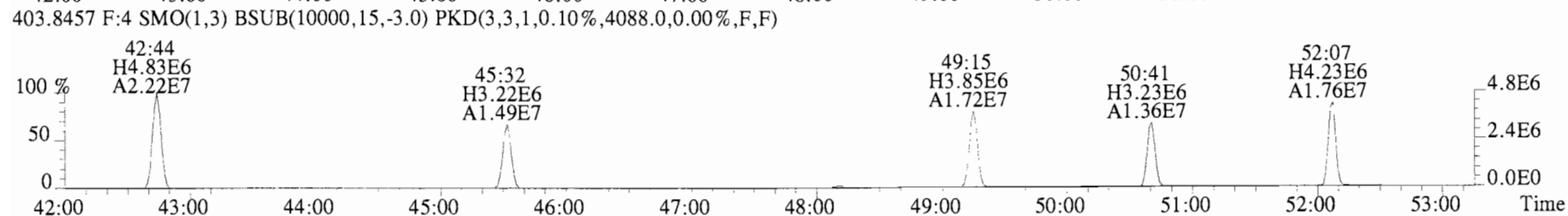
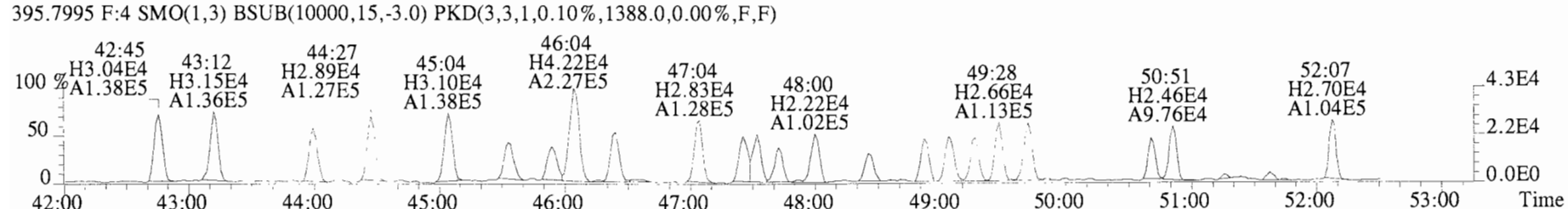
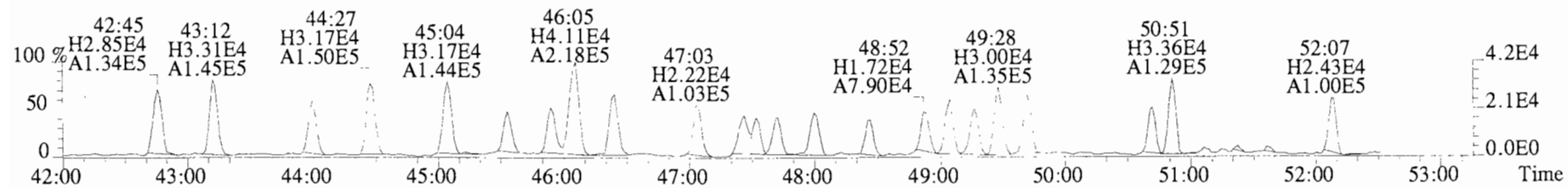


File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
371.8817 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13704.0,0.00%,F,F)

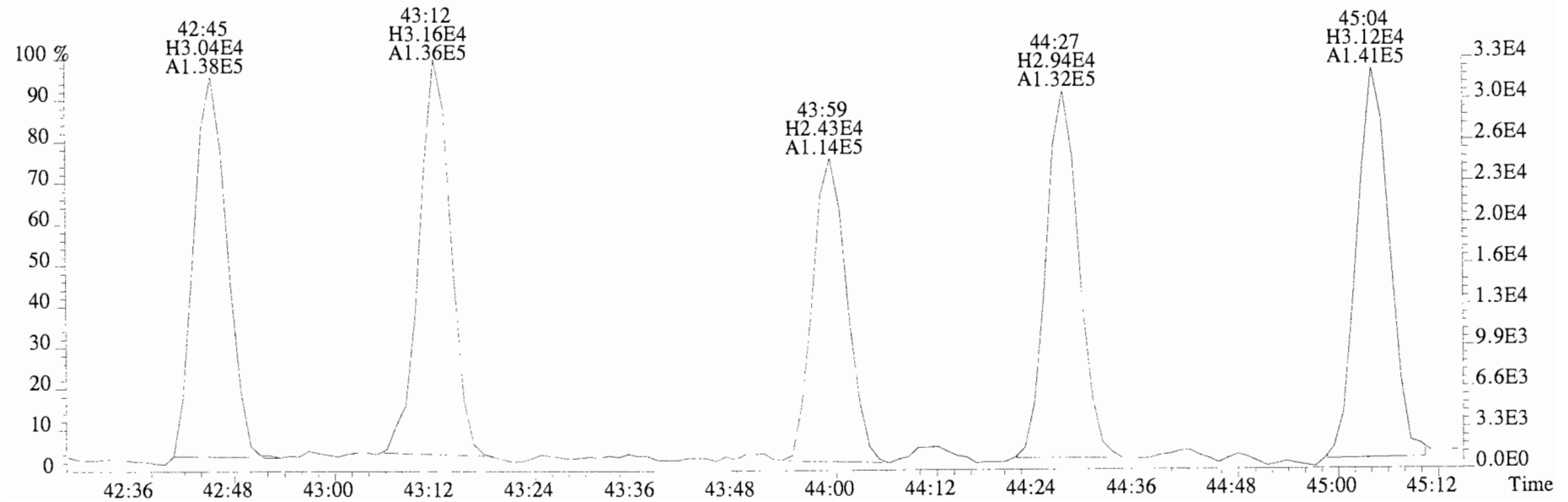
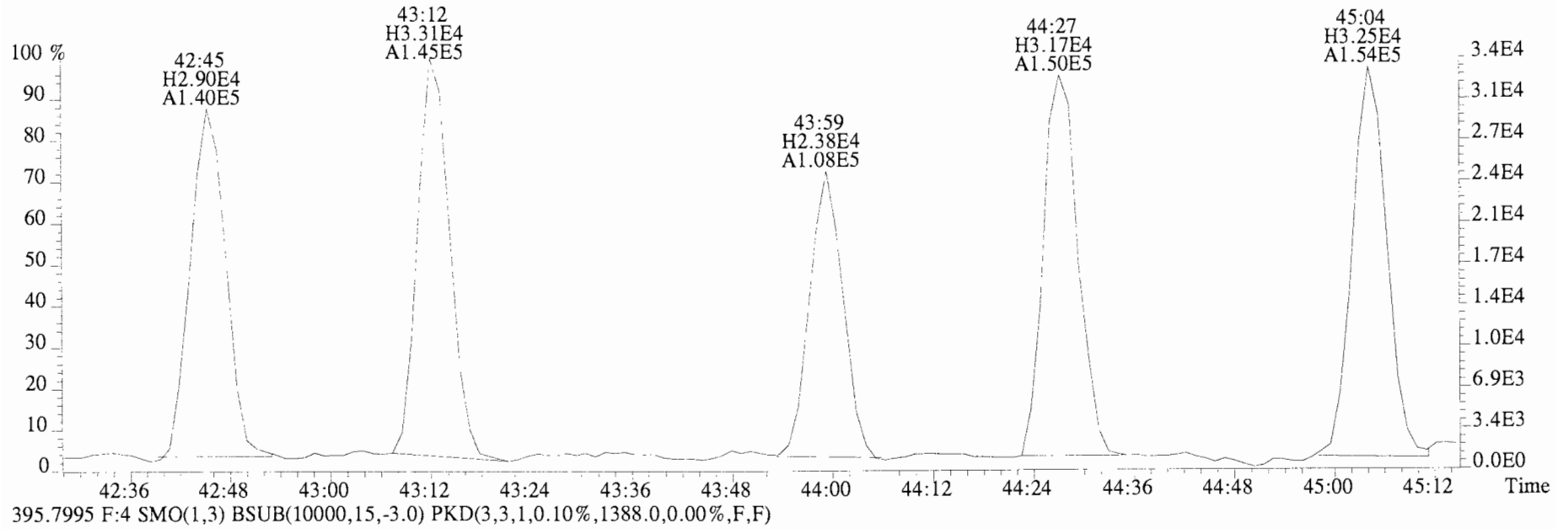




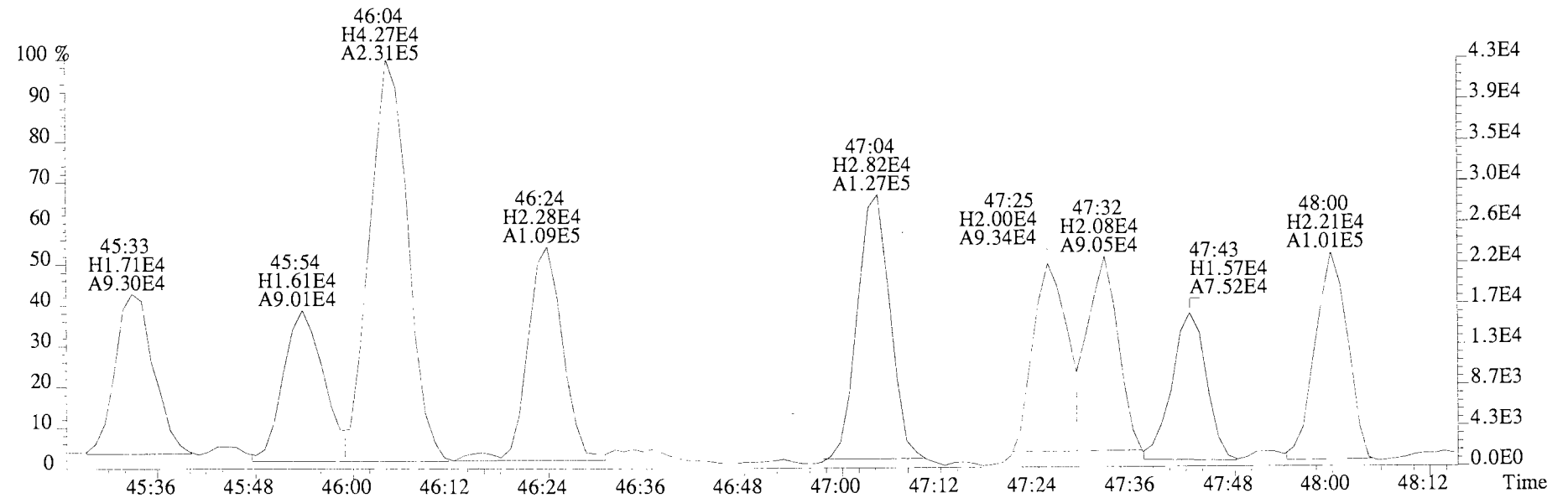
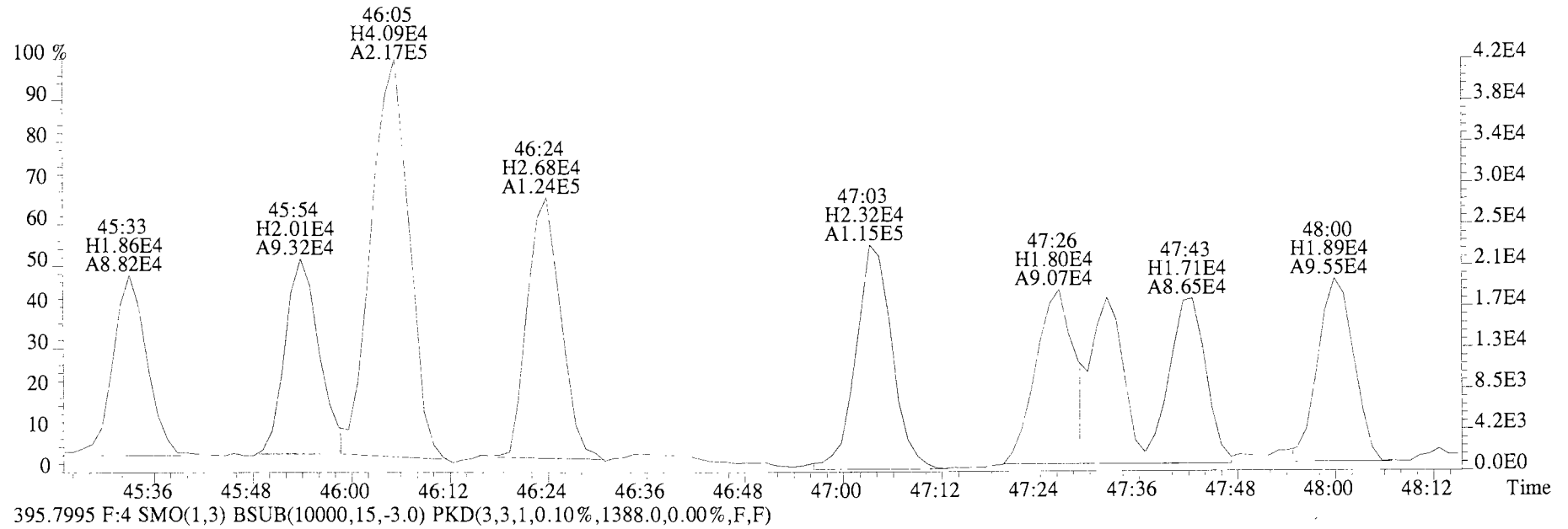
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



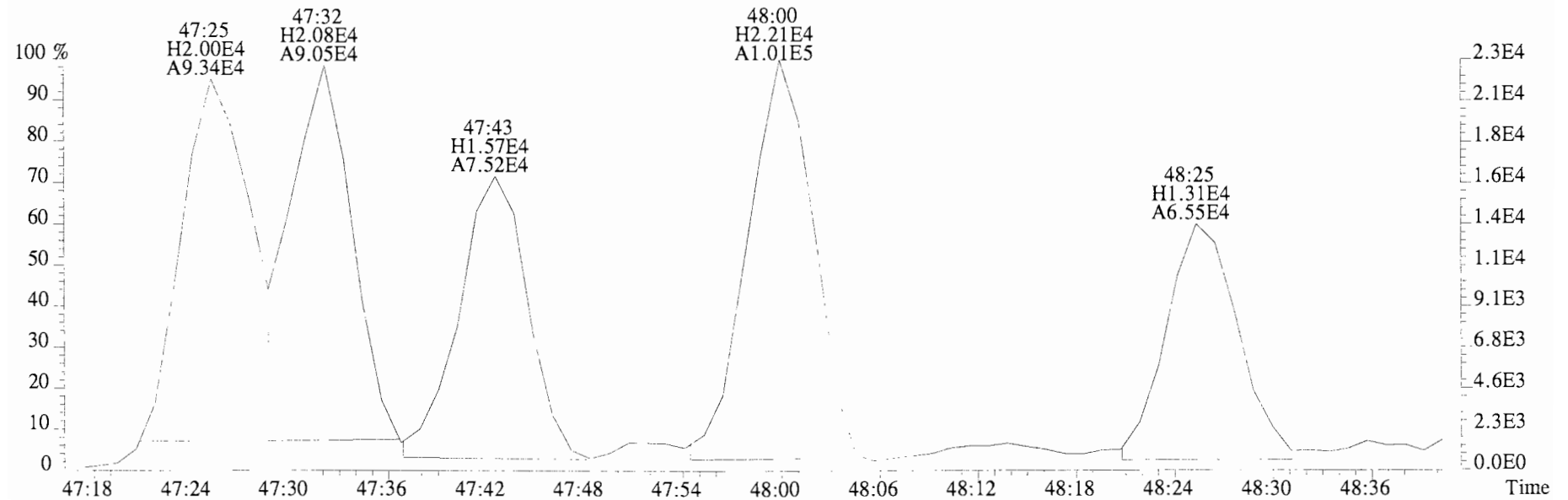
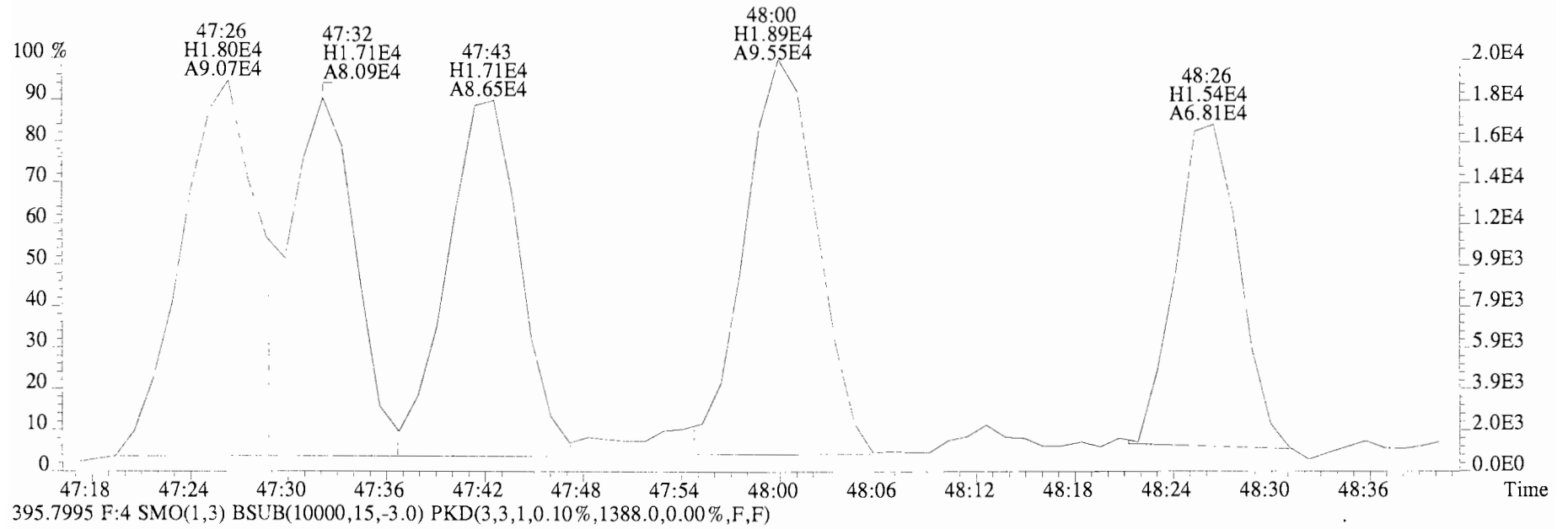
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



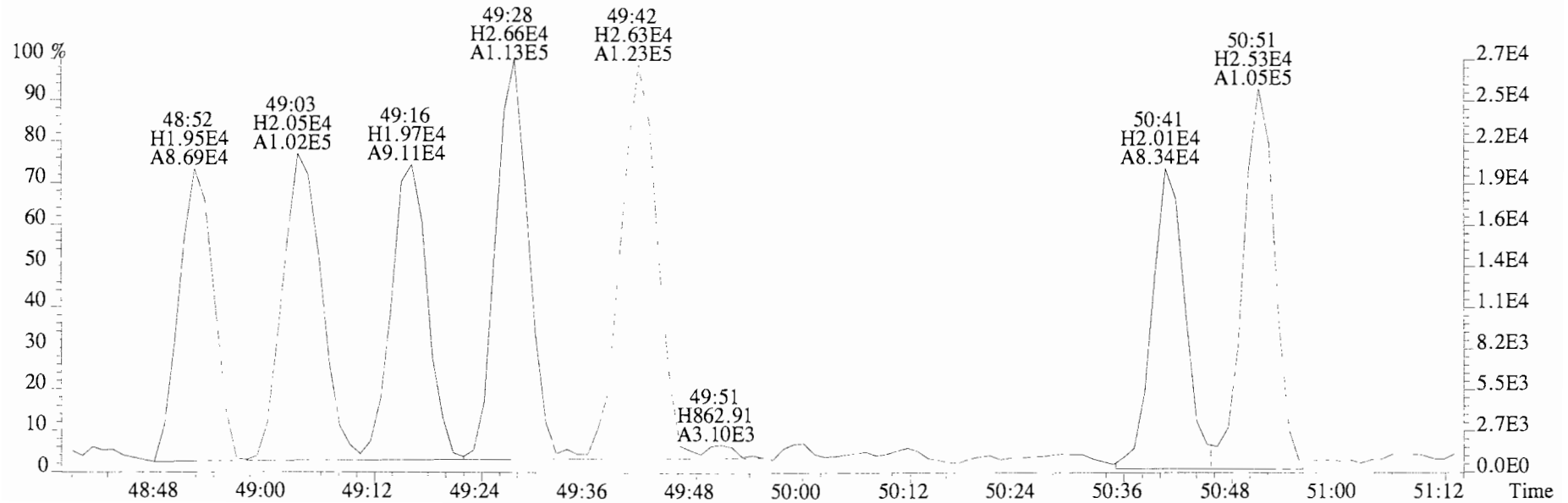
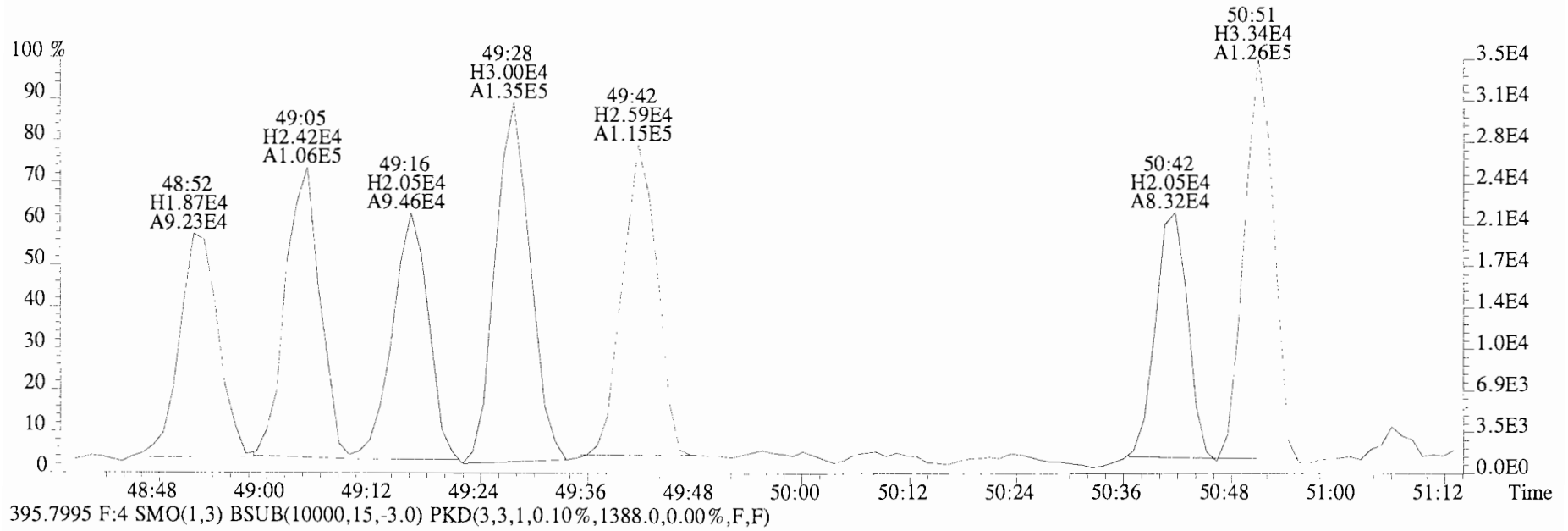
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



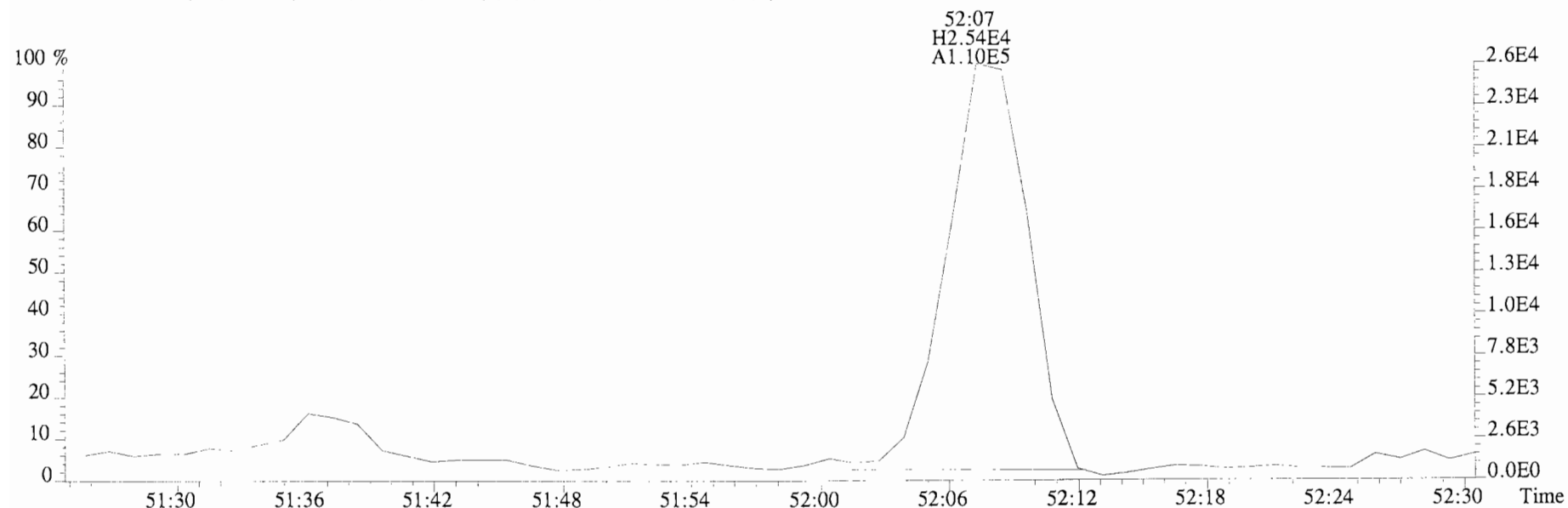
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



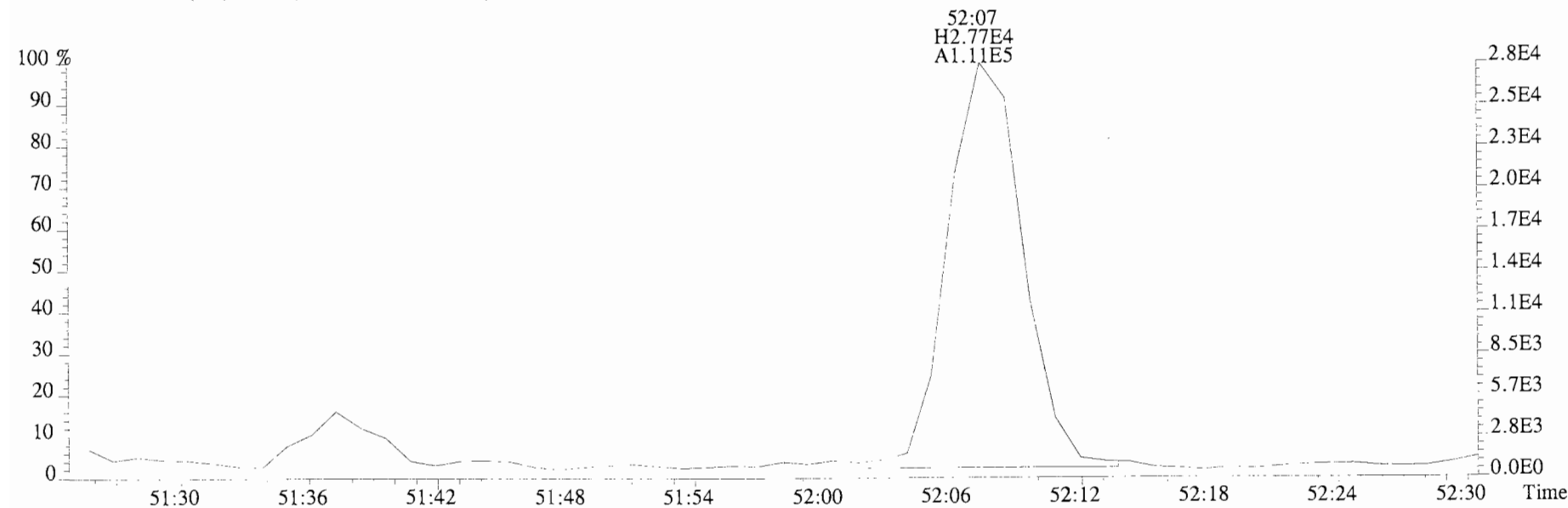
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



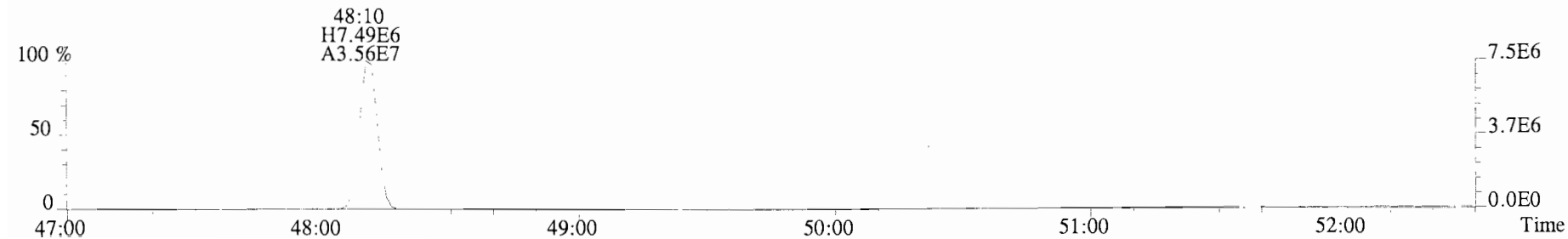
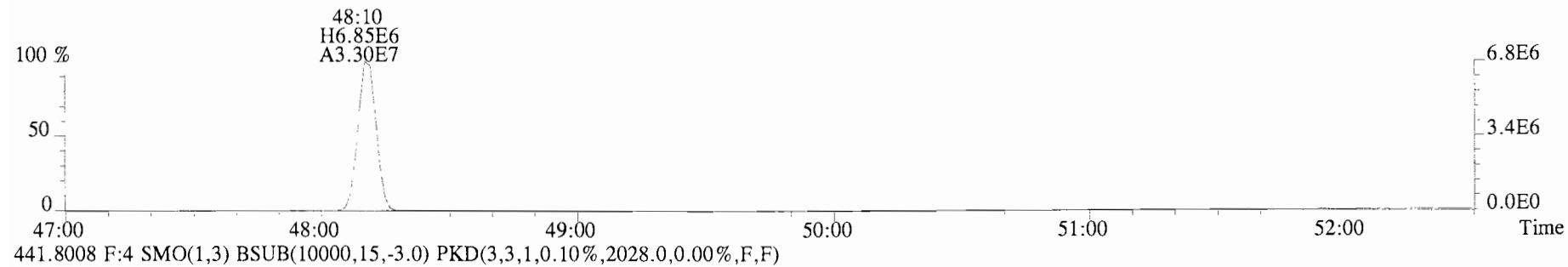
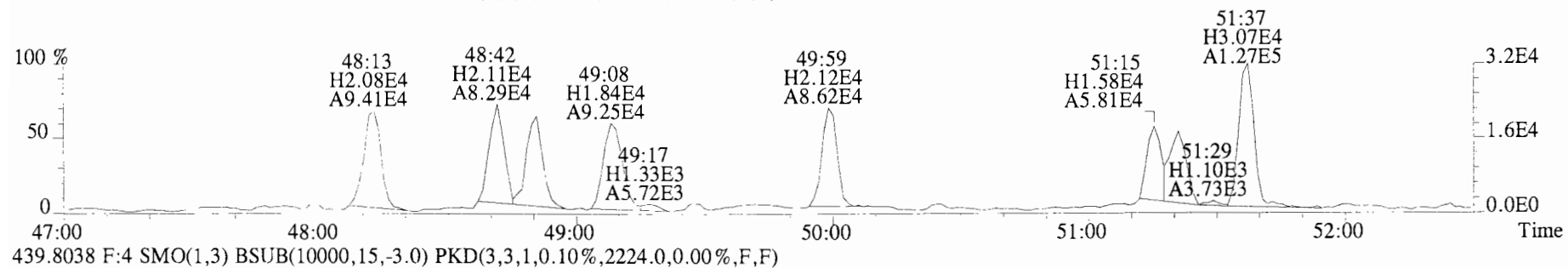
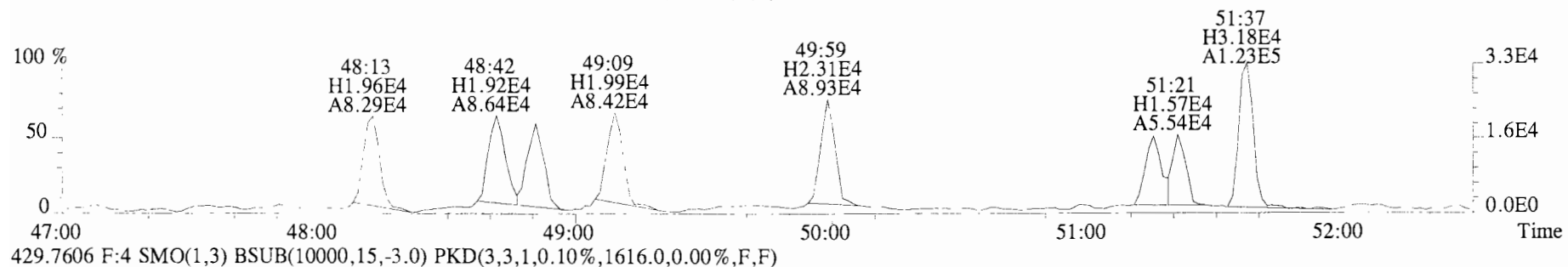
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
393.8025 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



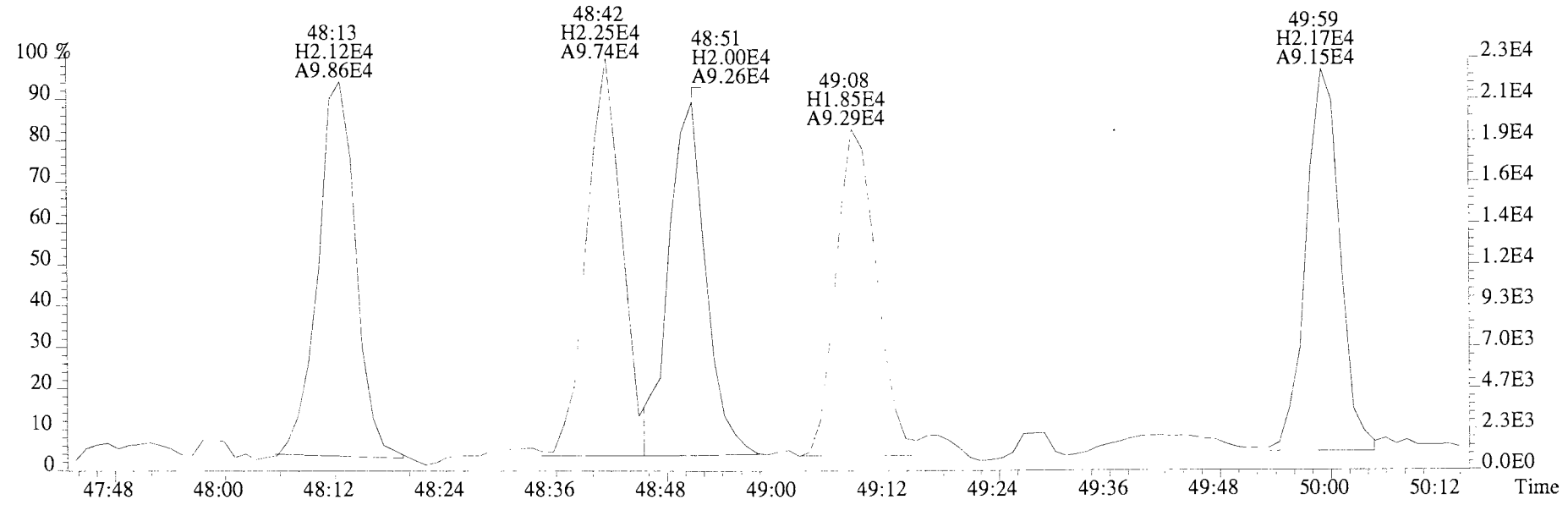
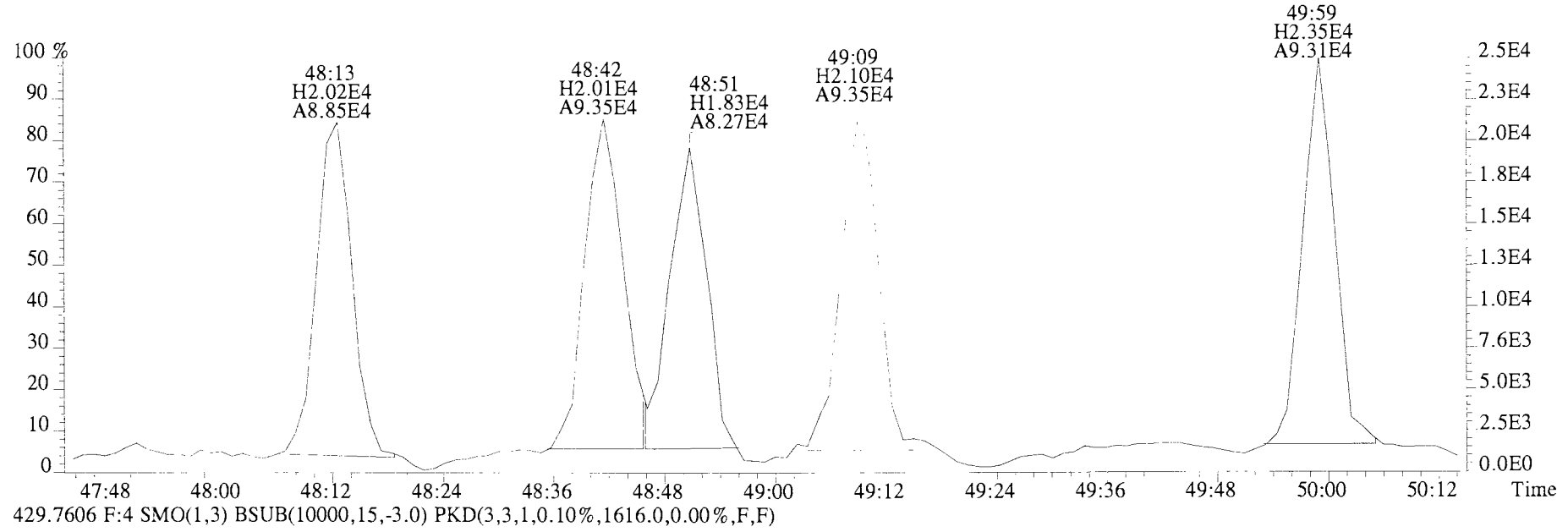
395.7995 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1388.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1512.0,0.00%,F,F)

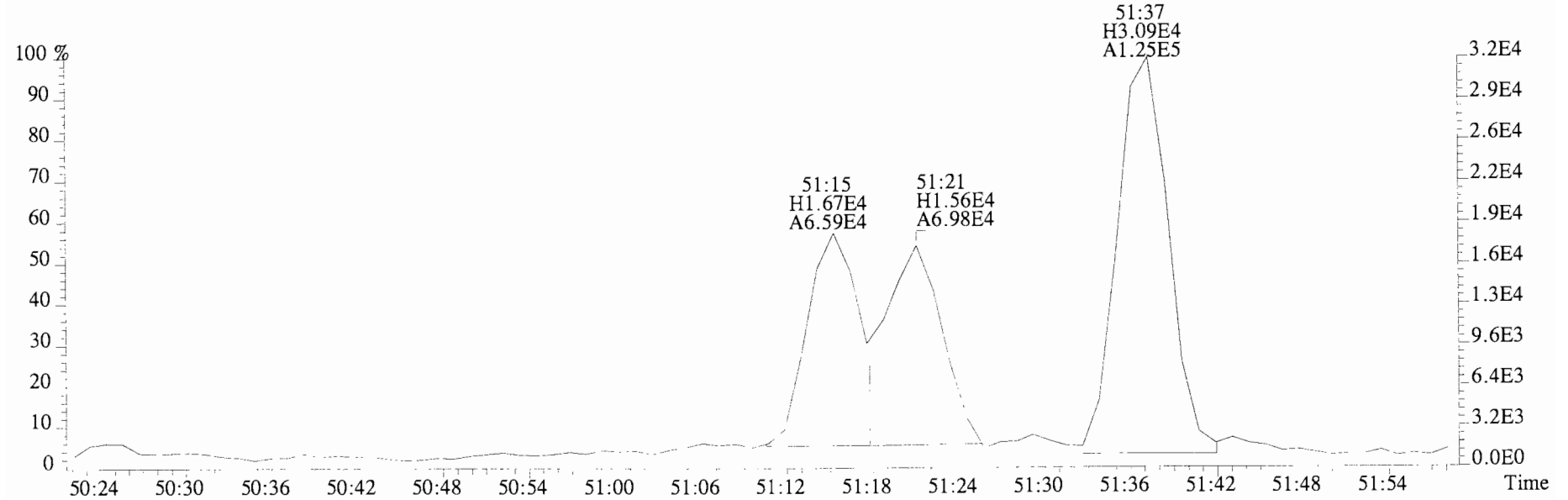
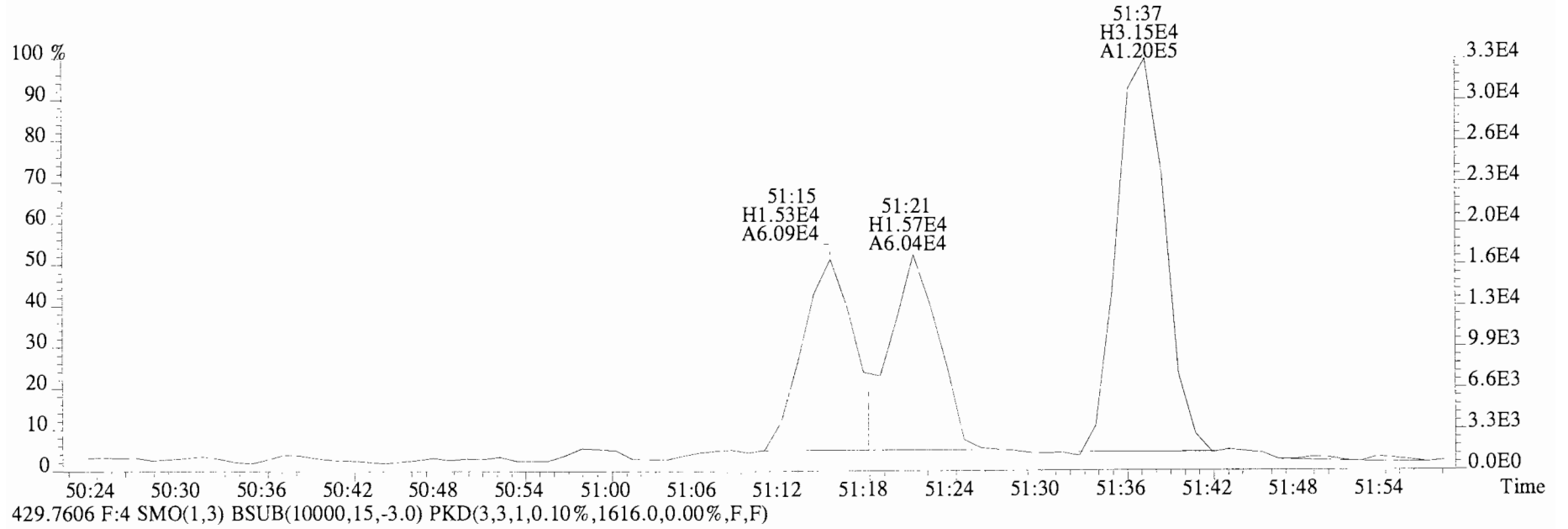


File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
 427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1512.0,0.00%,F,F)

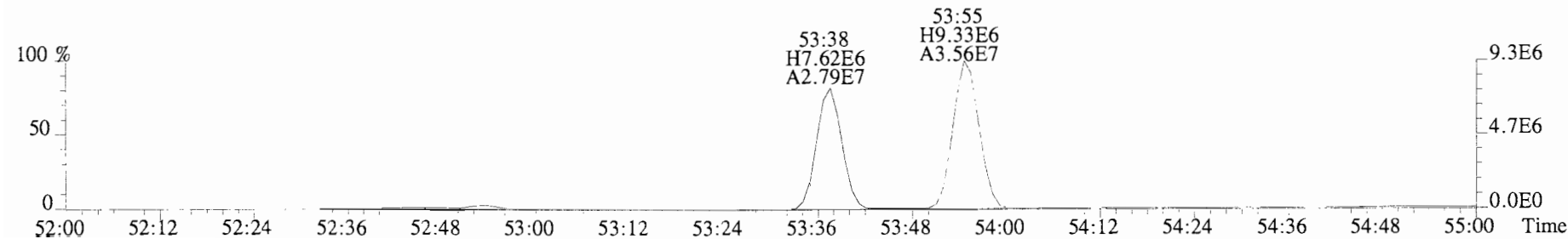
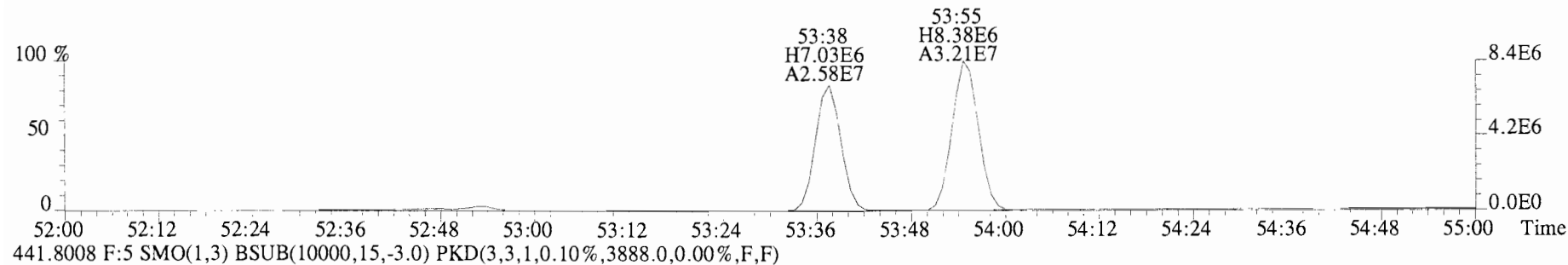
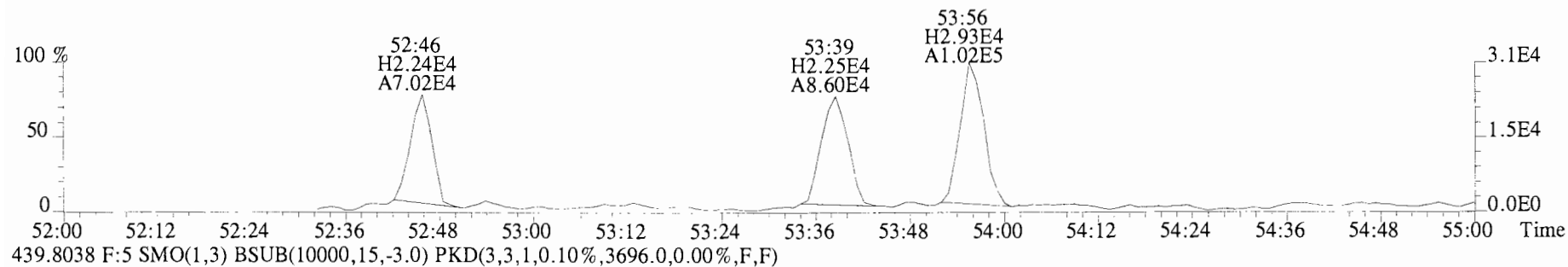
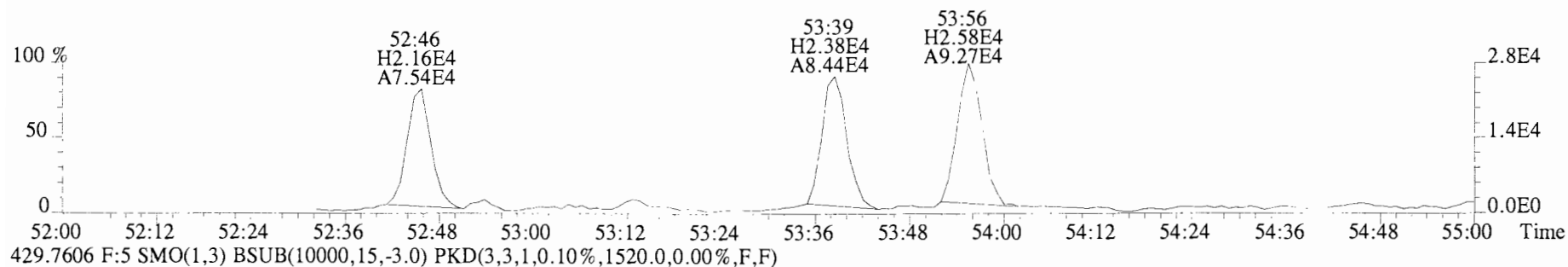




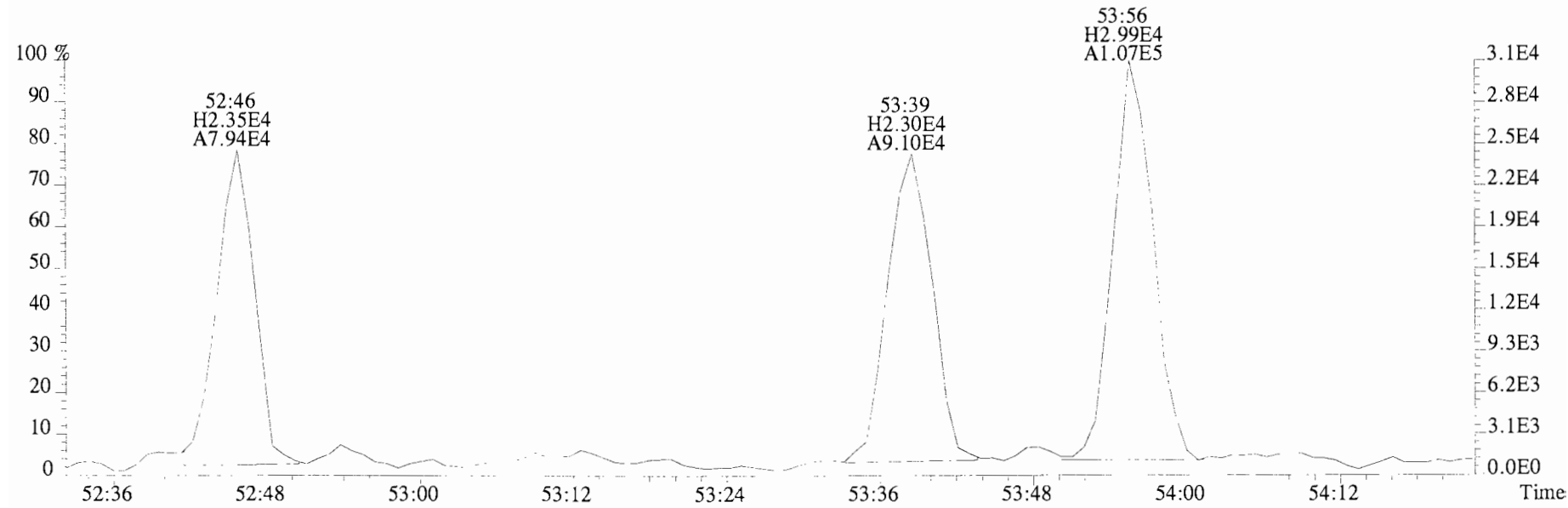
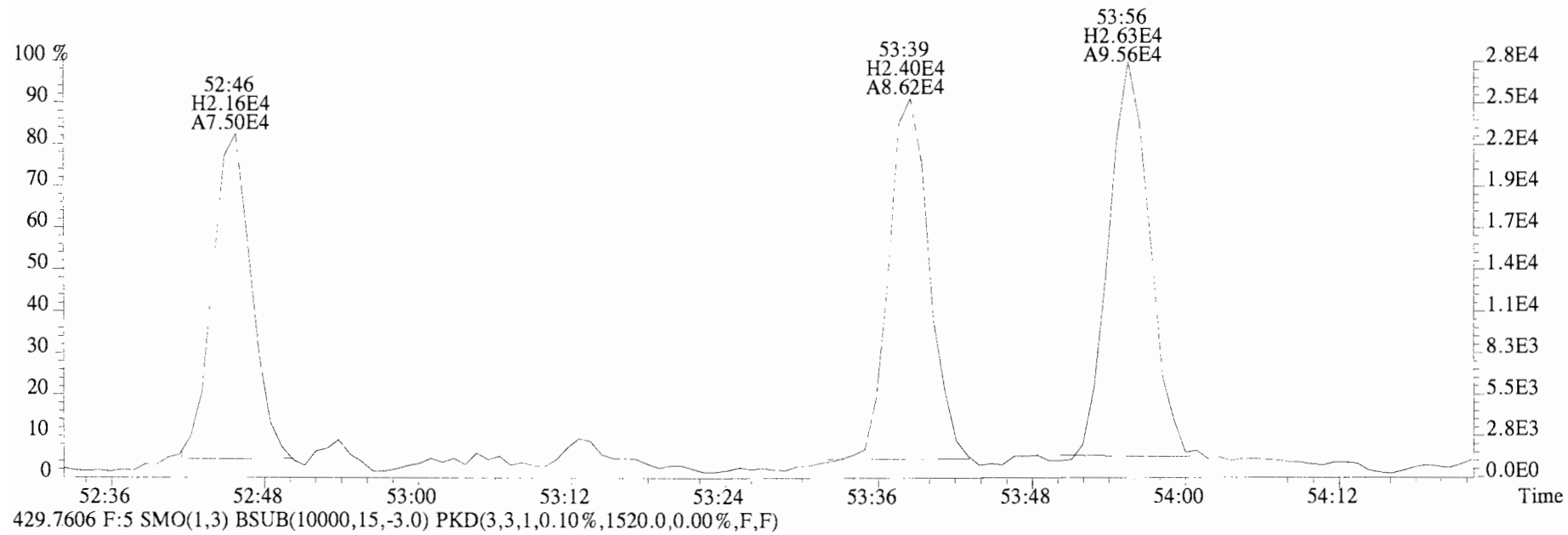
File:140623E2 #1-553 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
427.7635 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1512.0,0.00%,F,F)



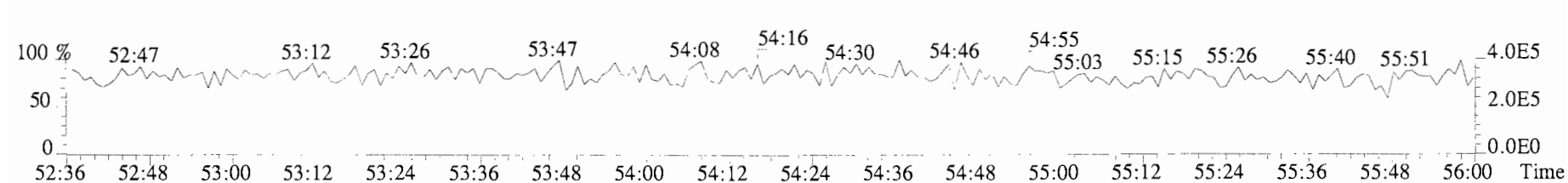
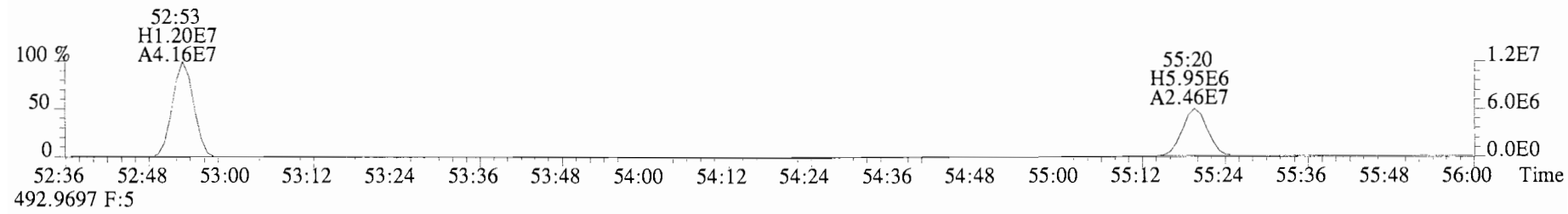
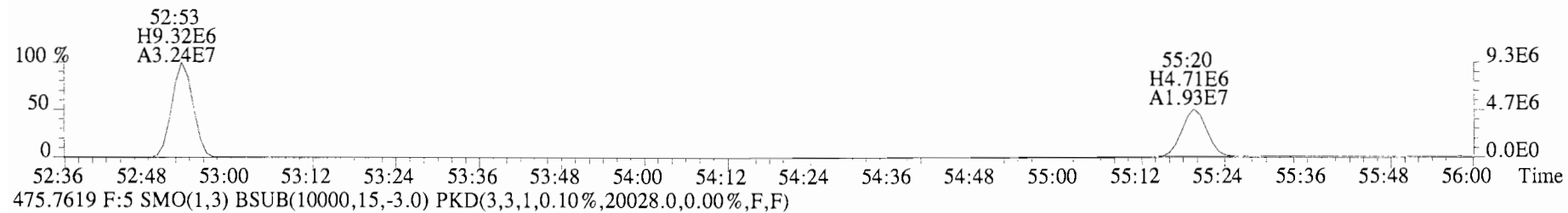
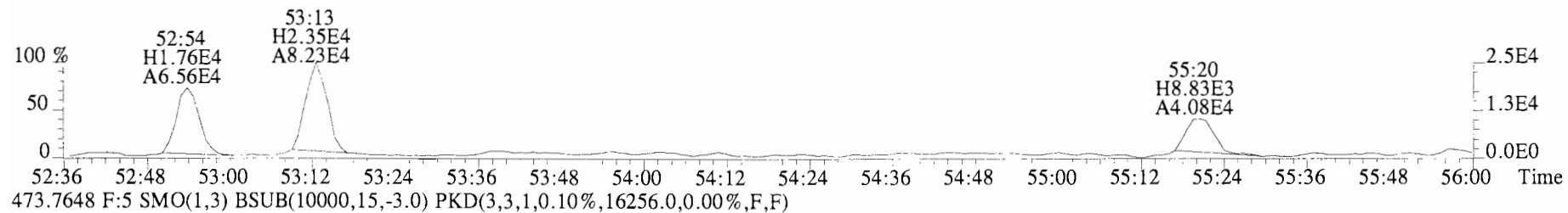
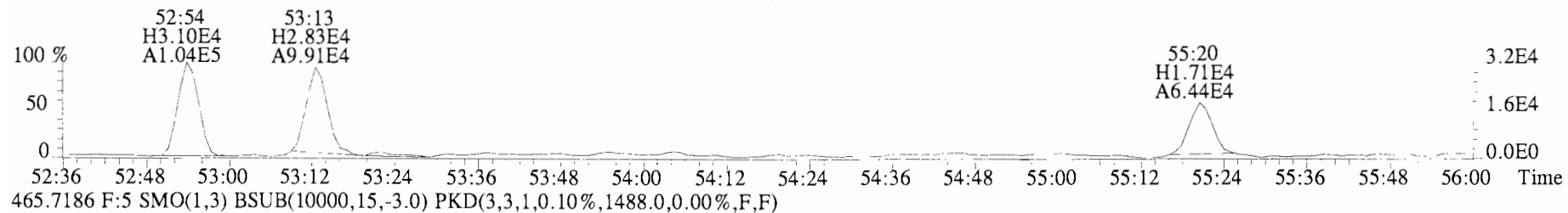
File:140623E2 #1-435 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
427.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1324.0,0.00%,F,F)



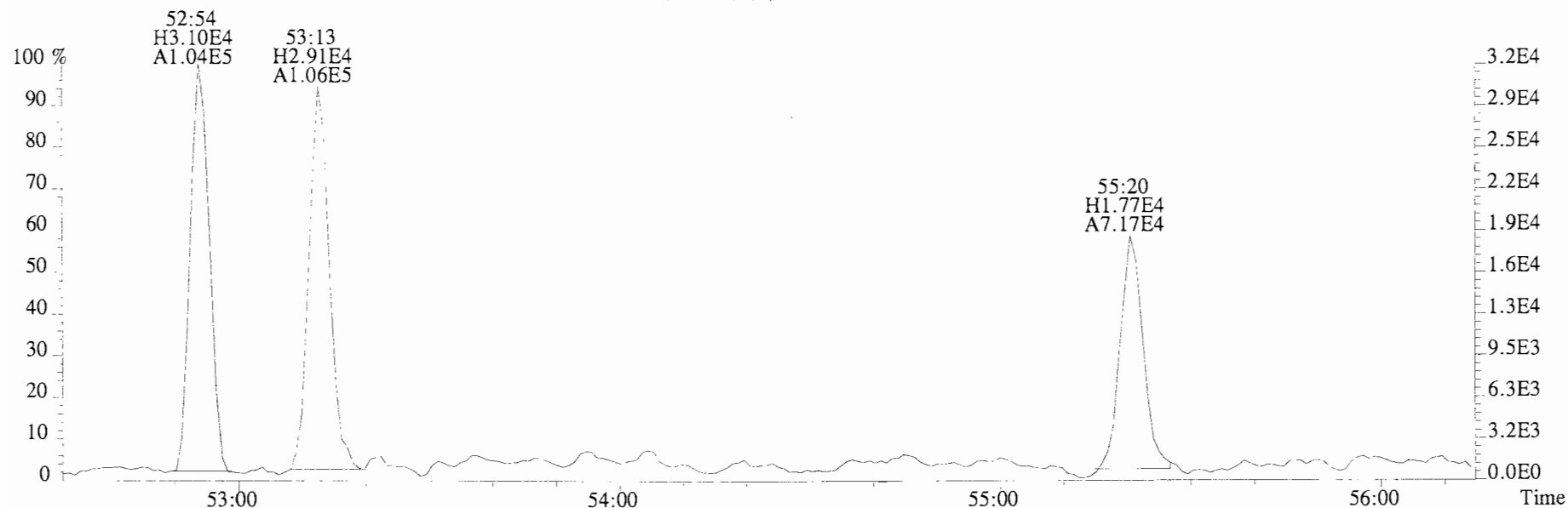
File:140623E2 #1-435 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
427.7635 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1324.0,0.00%,F,F)



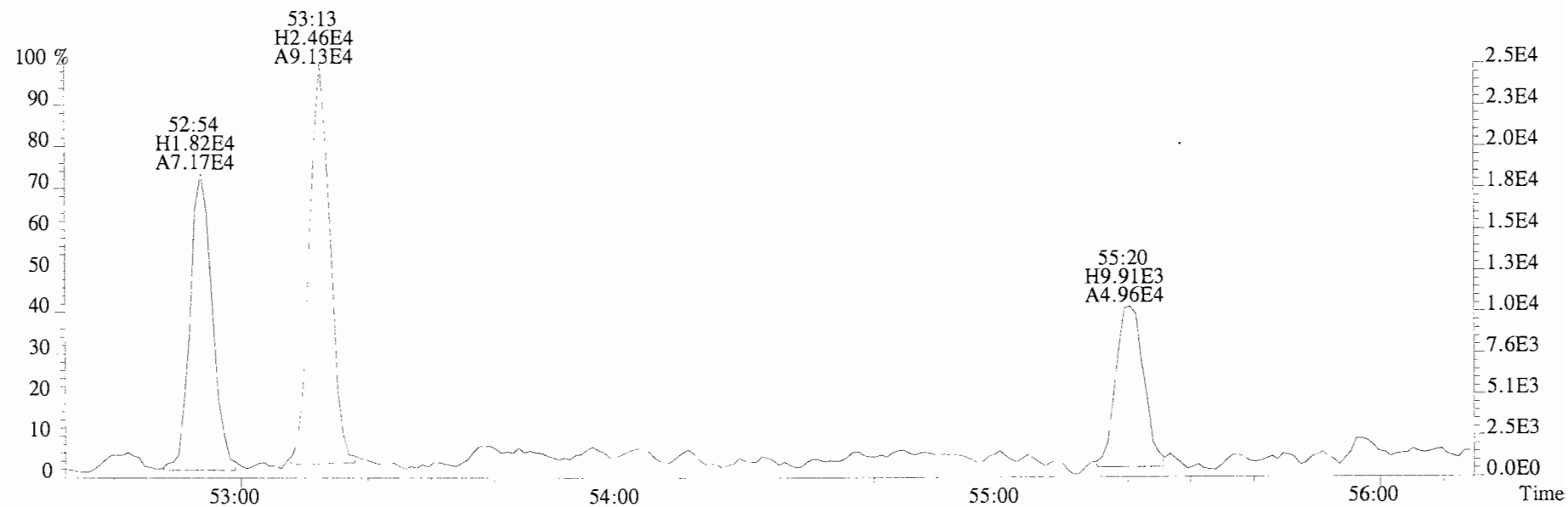
File:140623E2 #1-435 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



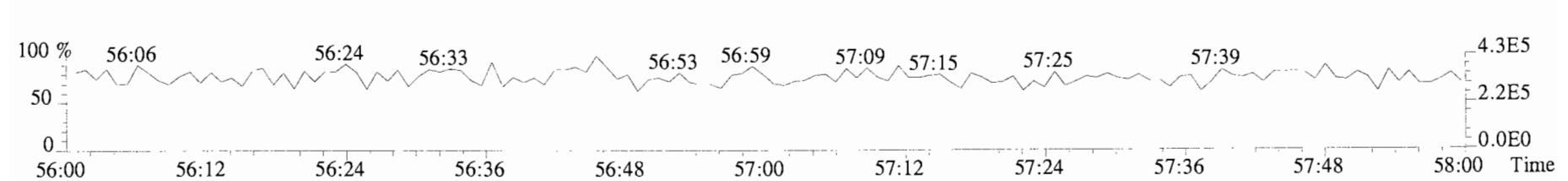
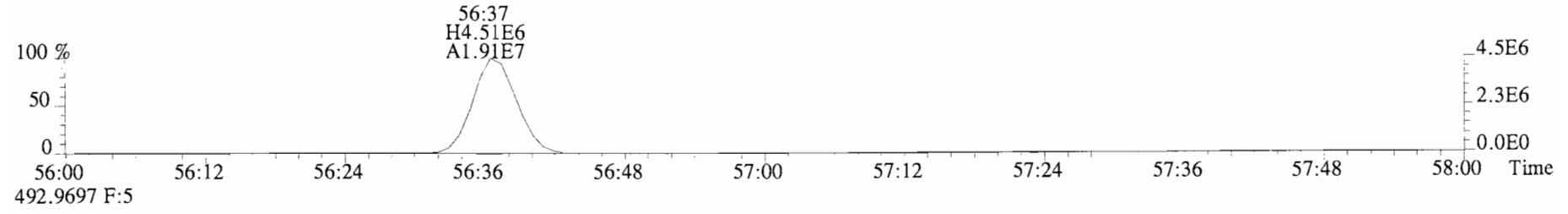
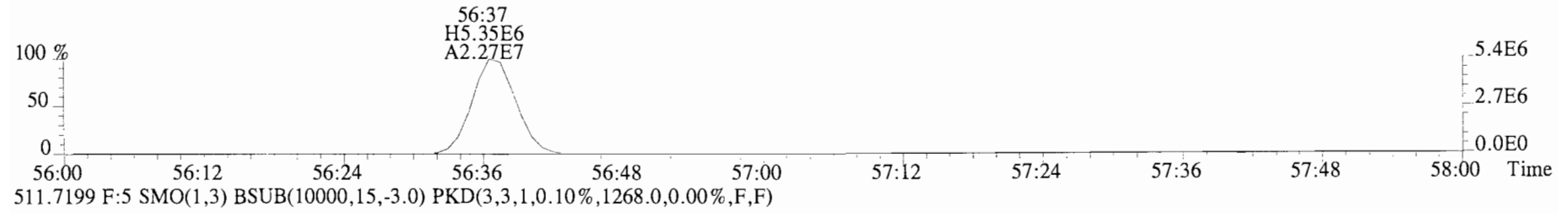
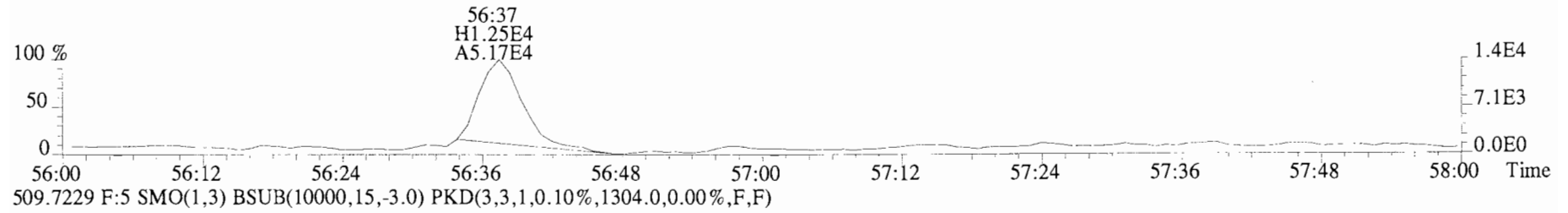
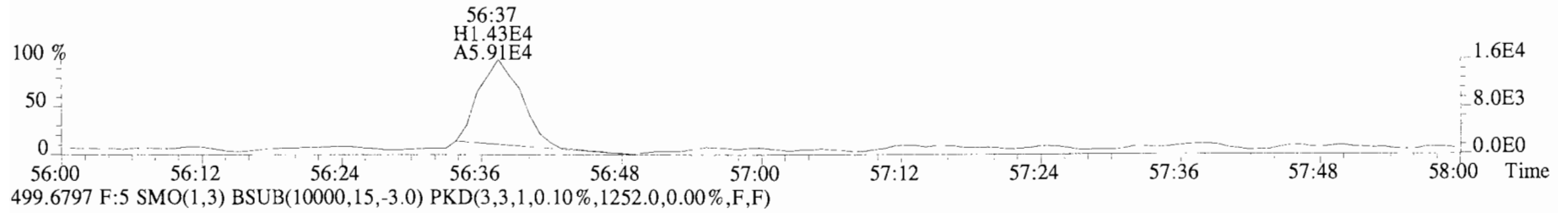
File:140623E2 #1-435 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
463.7216 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



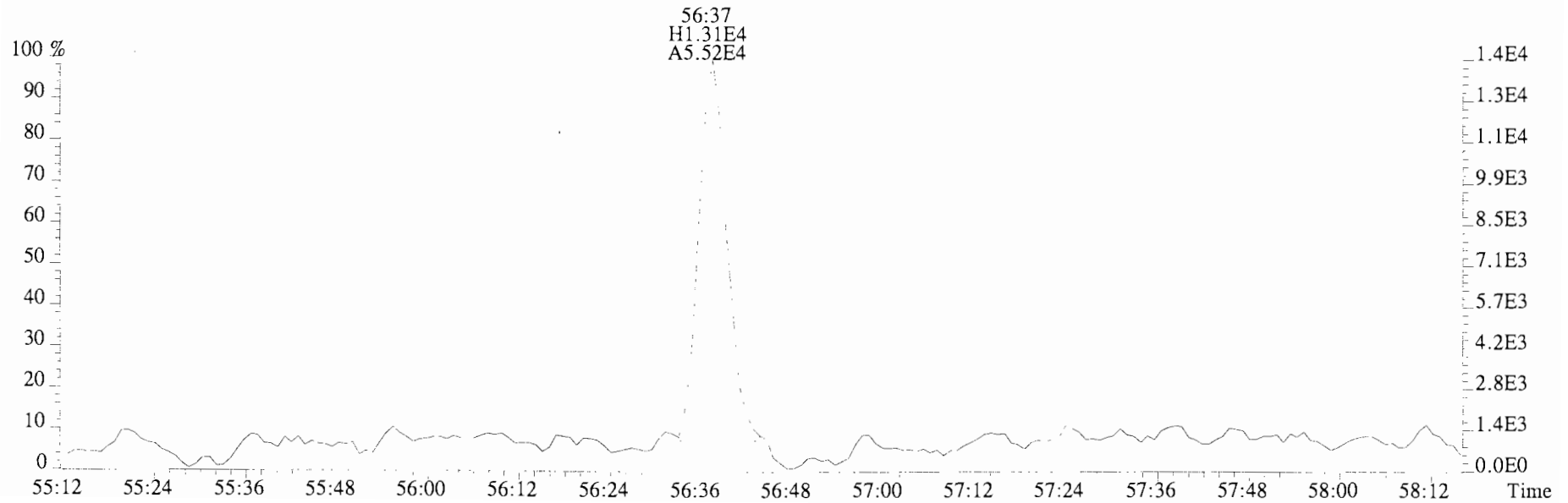
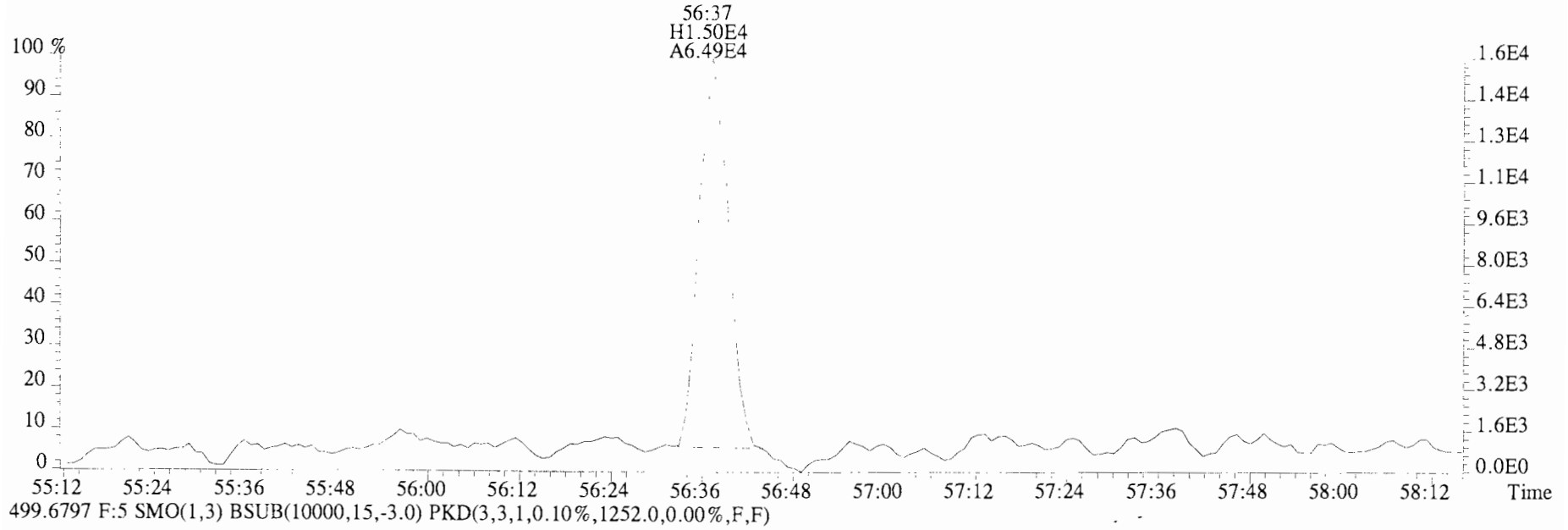
465.7186 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



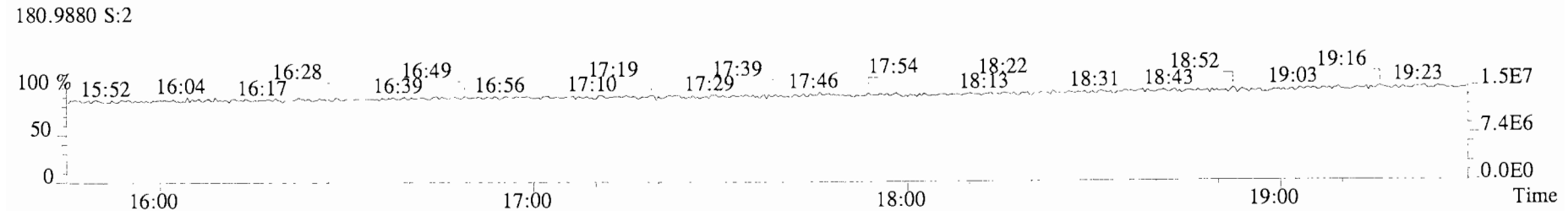
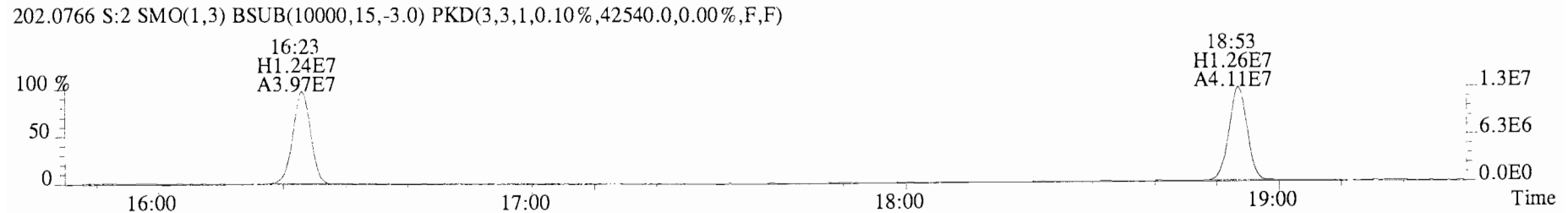
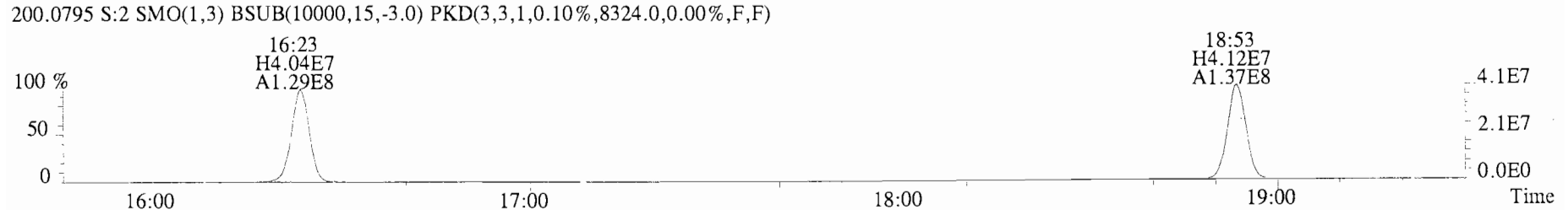
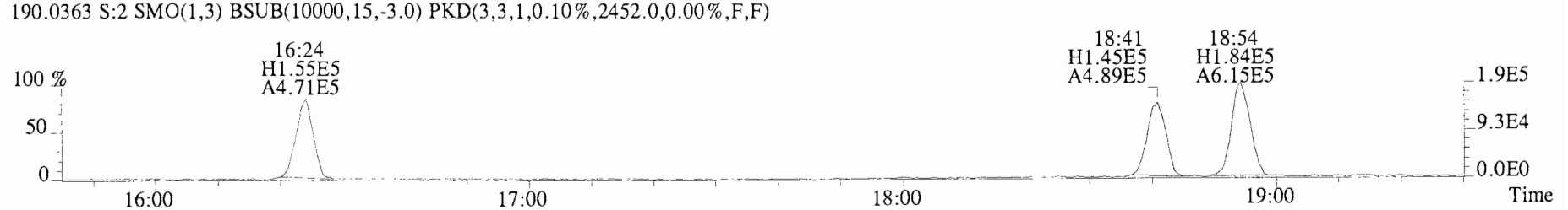
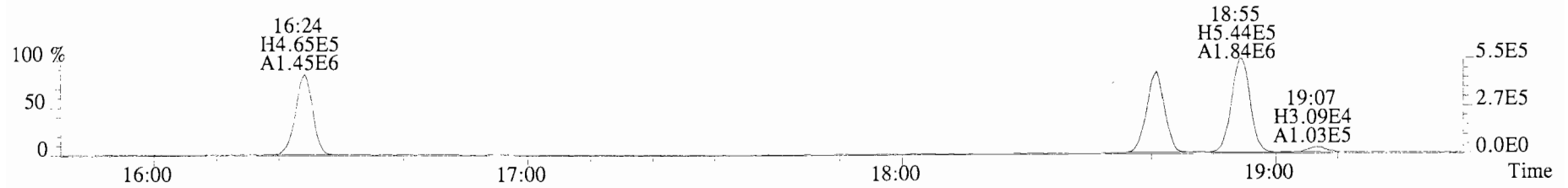
File:140623E2 #1-435 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
497.6826 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1260.0,0.00%,F,F)



File:140623E2 #1-435 Acq:23-JUN-2014 11:41:57 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-1 PCB CS0 14F1602 Exp:PCB\_ZB1  
497.6826 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1260.0,0.00%,F,F)

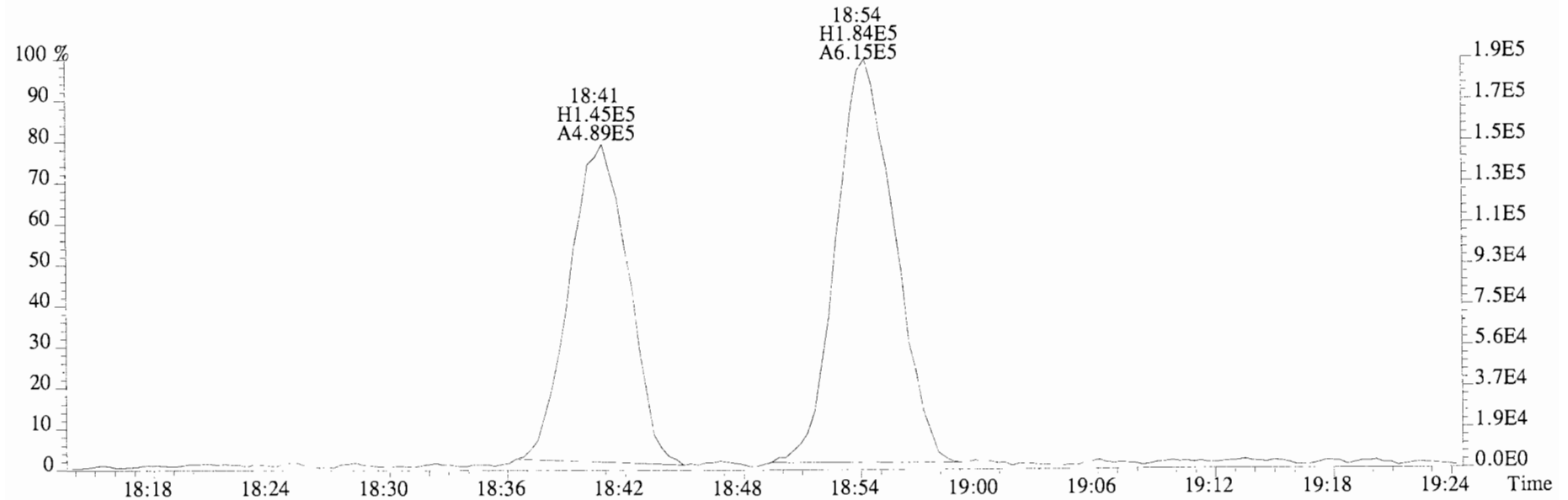
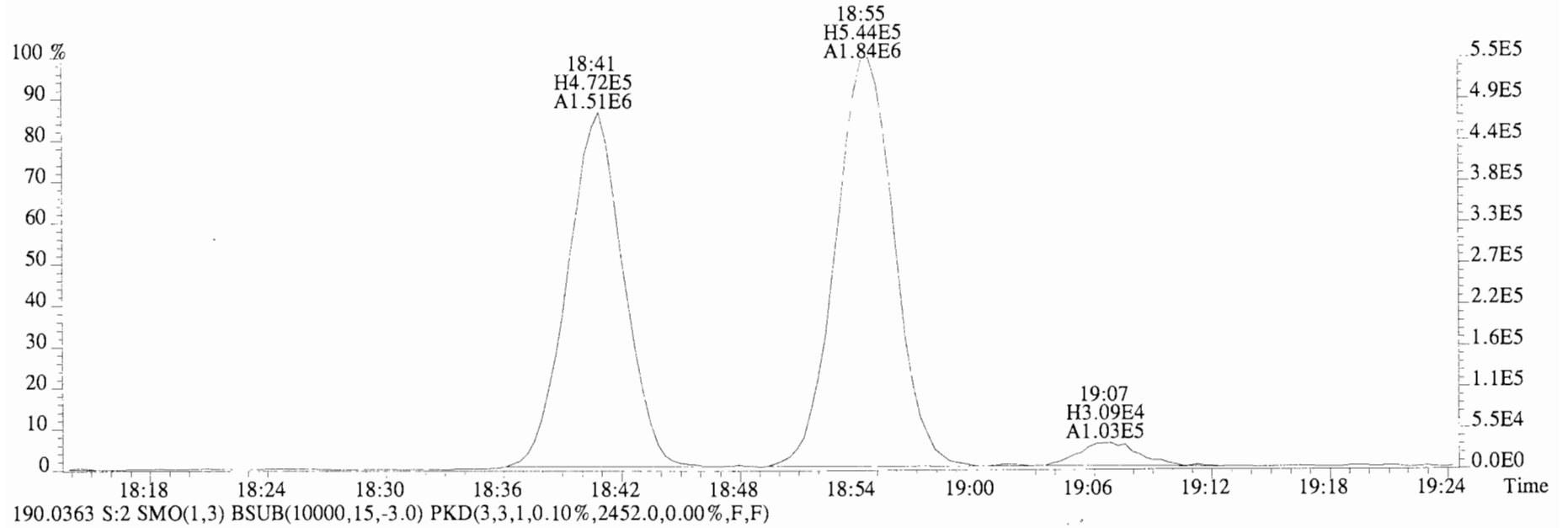


File:140623E2 #1-729 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)

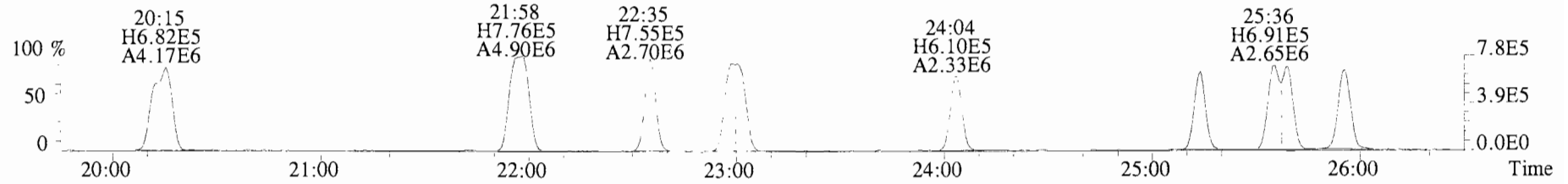




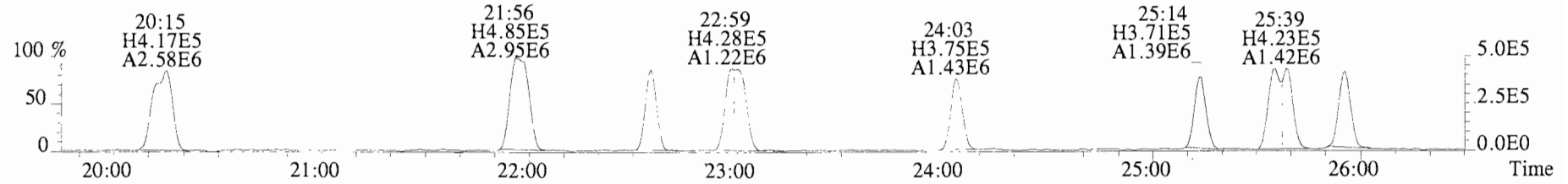
File:140623E2 #1-729 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



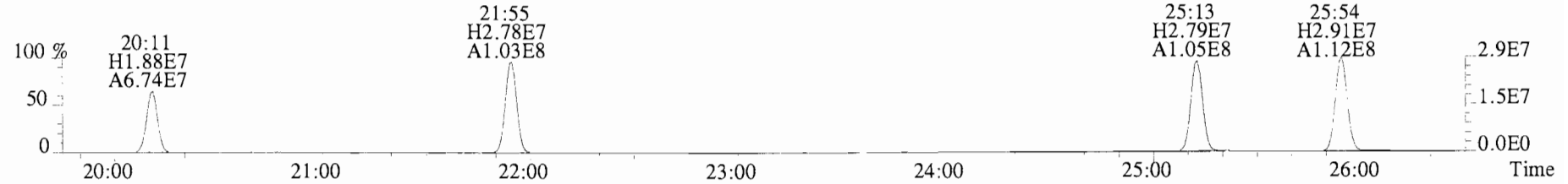
File:140623E2 #1-750 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)



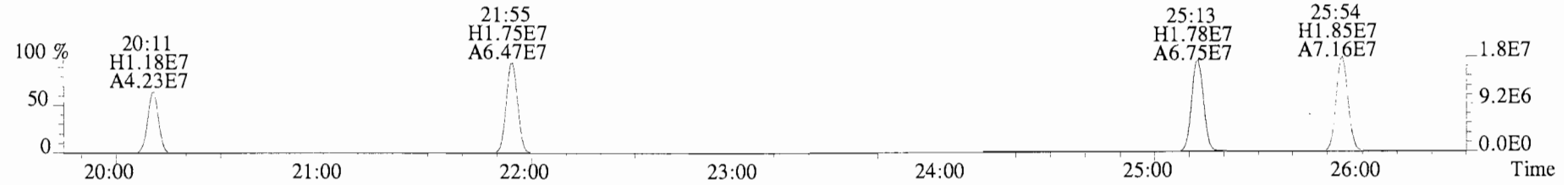
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8372.0,0.00%,F,F)



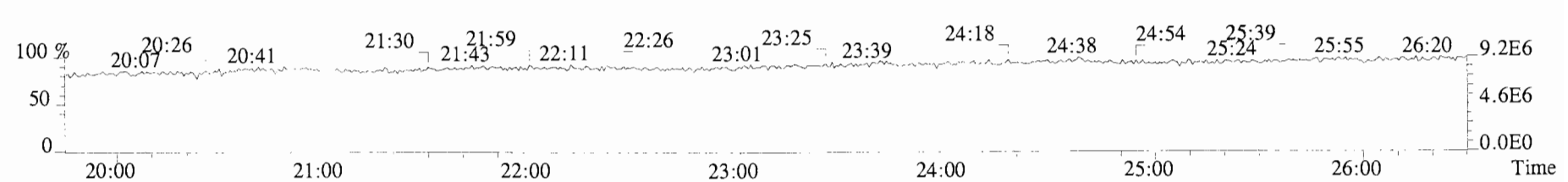
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4024.0,0.00%,F,F)



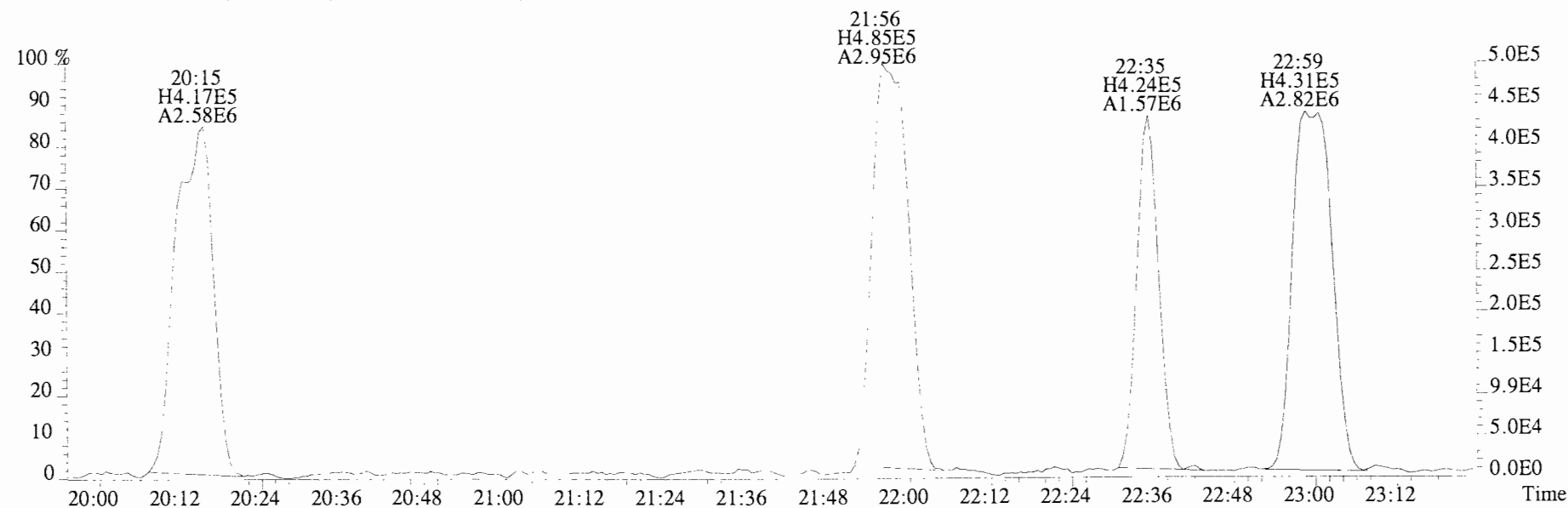
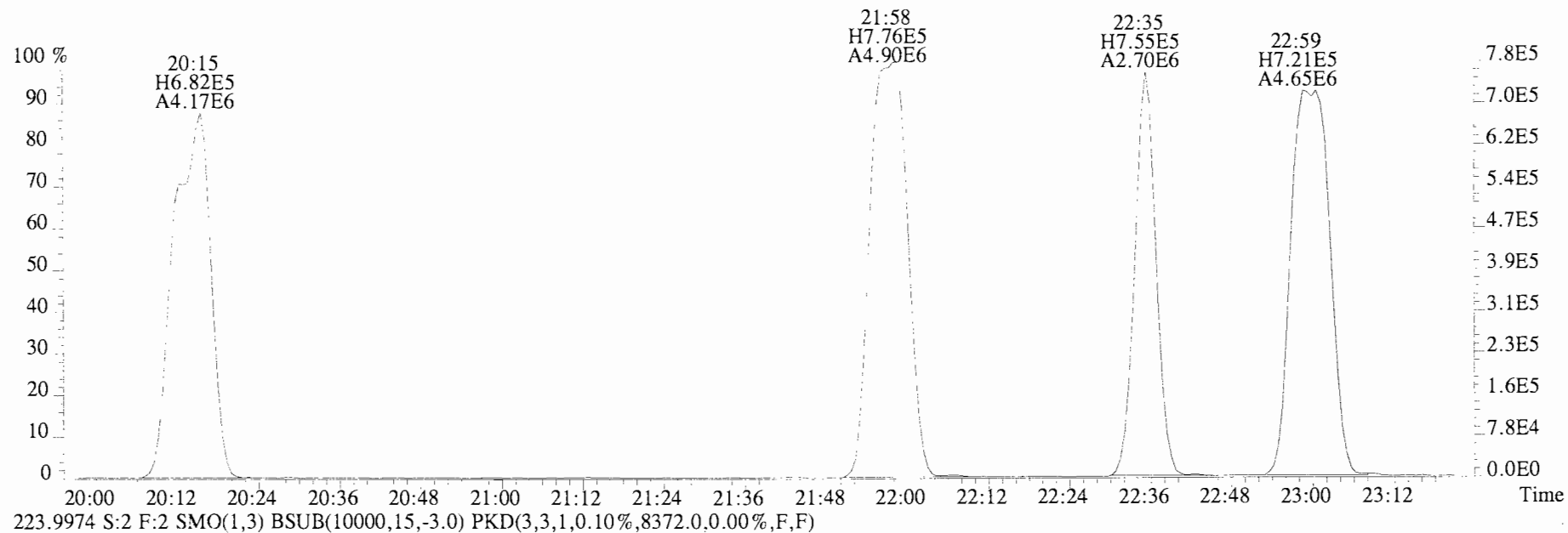
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4208.0,0.00%,F,F)



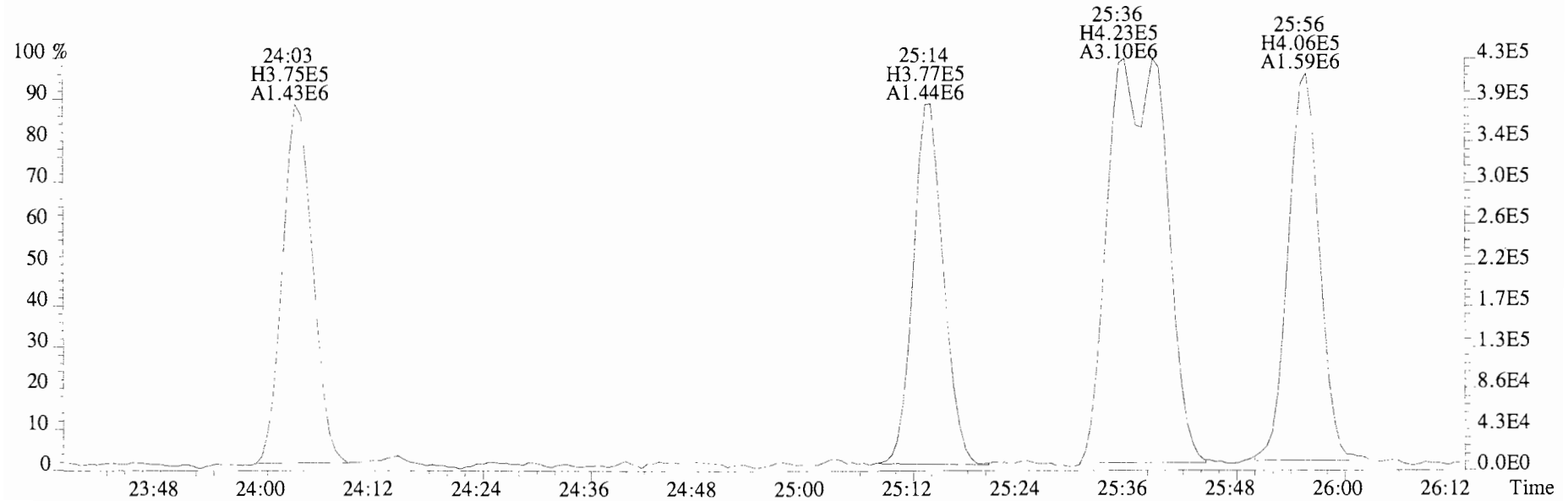
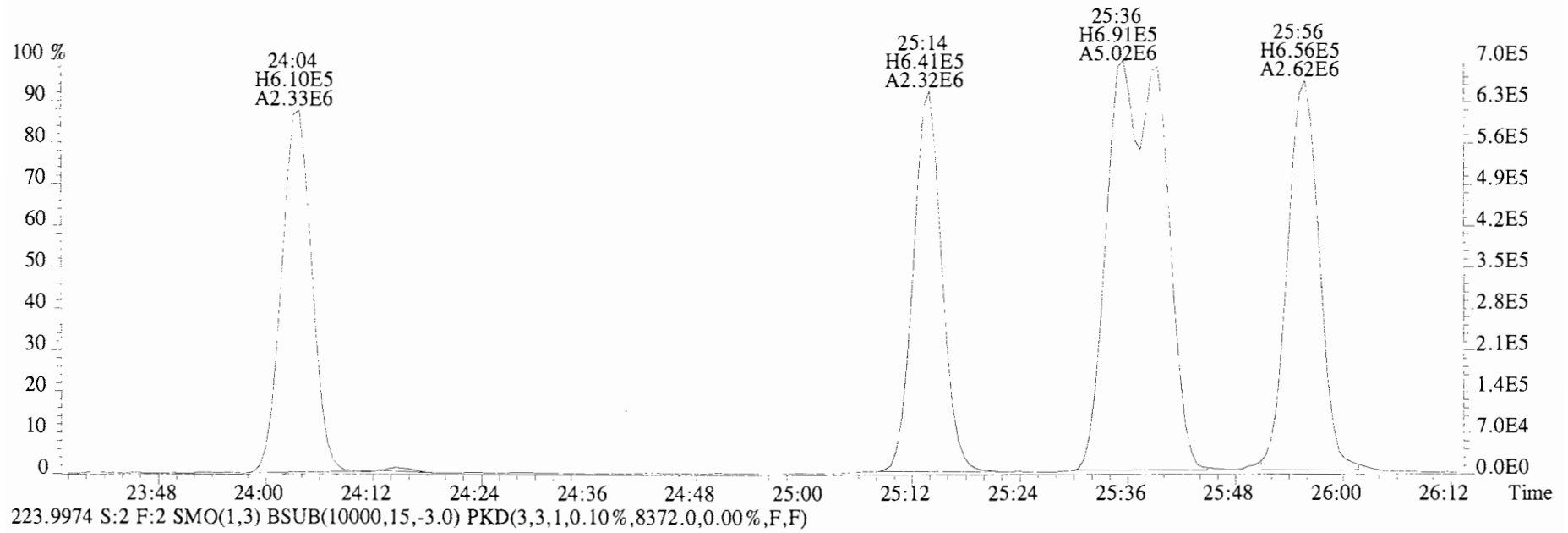
230.9856 S:2 F:2



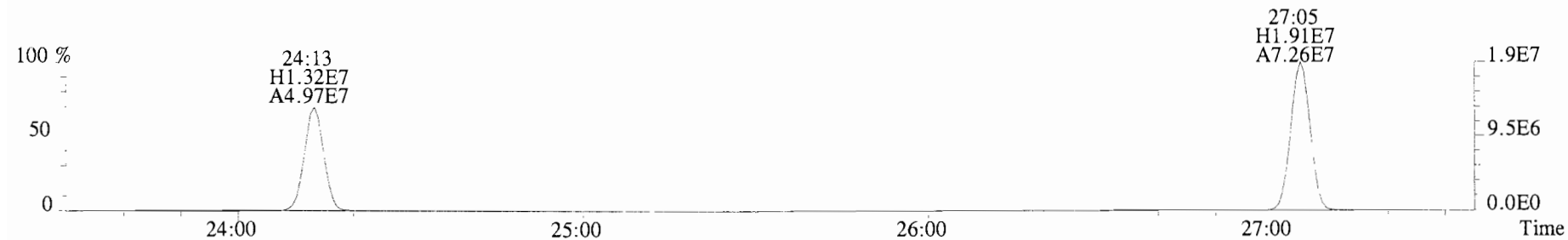
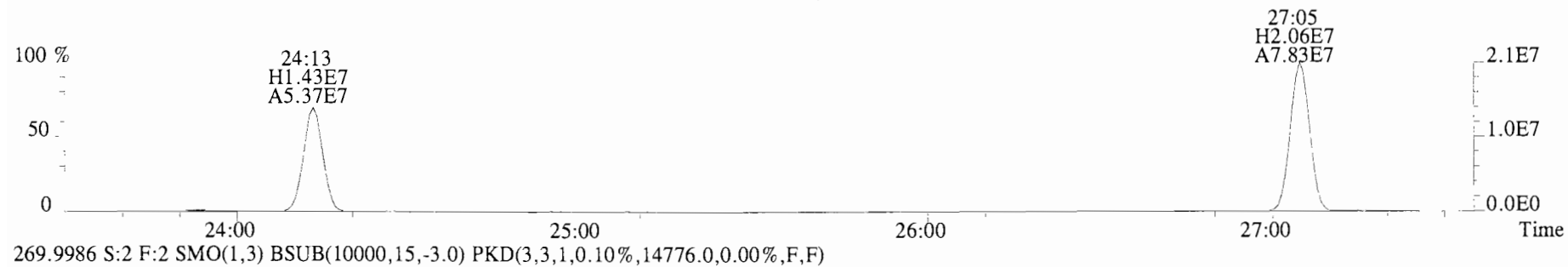
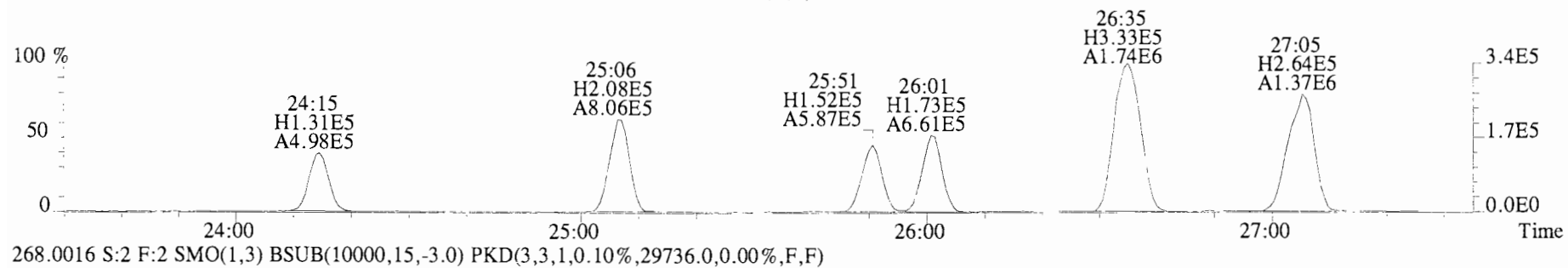
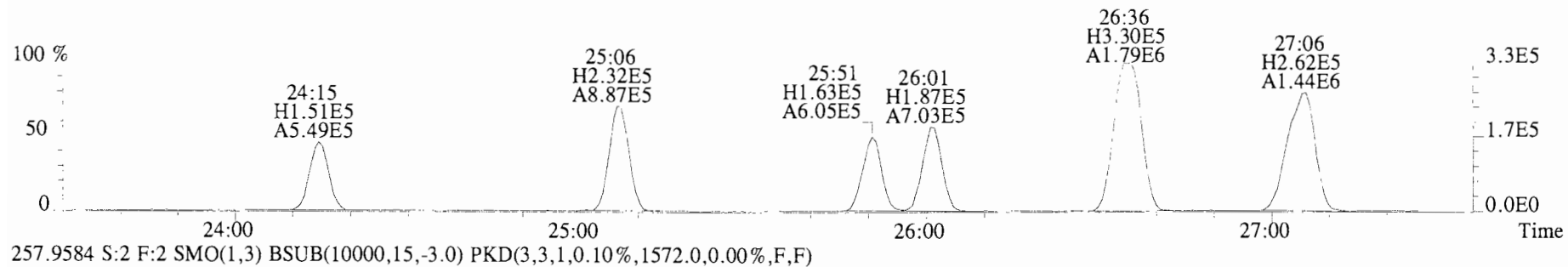
File:140623E2 #1-750 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)



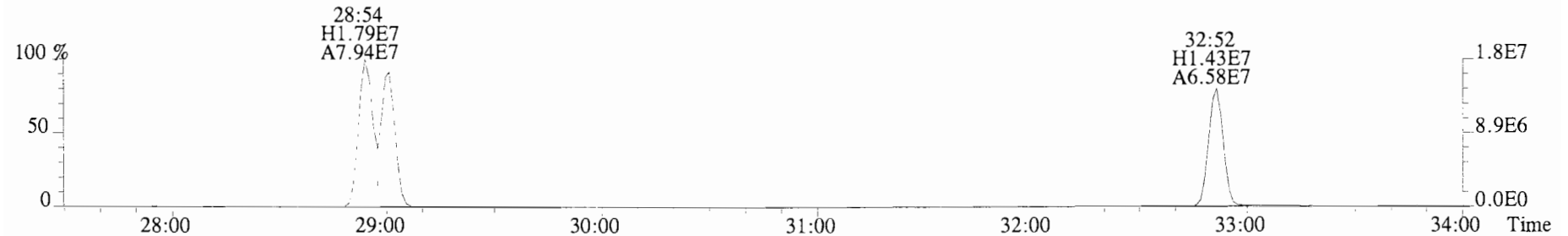
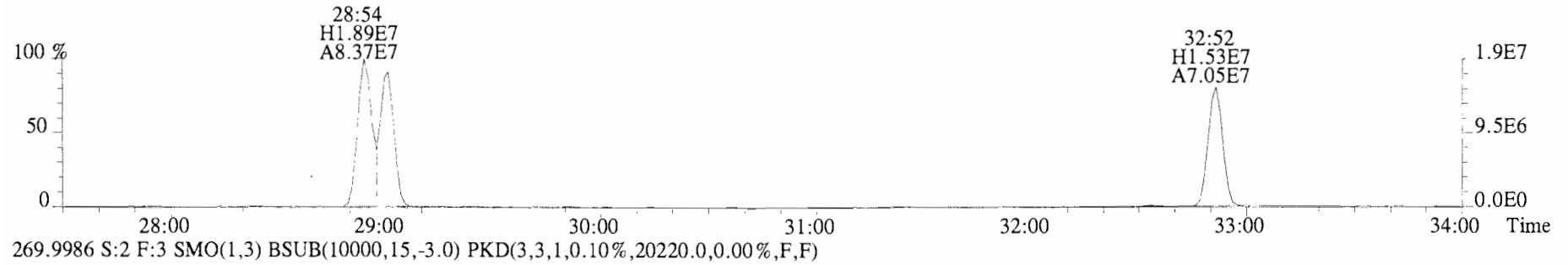
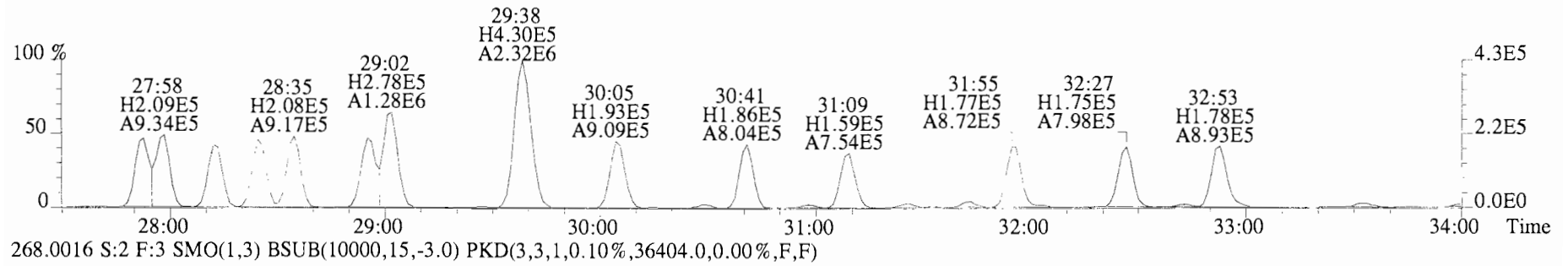
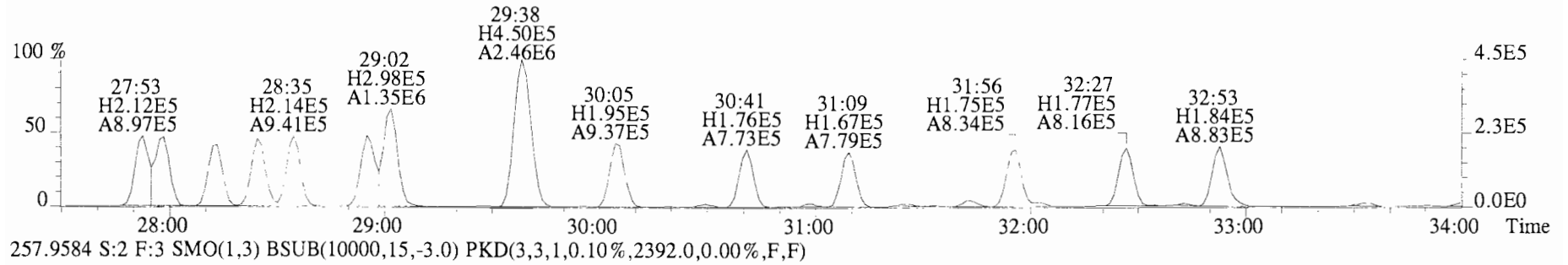
File:140623E2 #1-750 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)



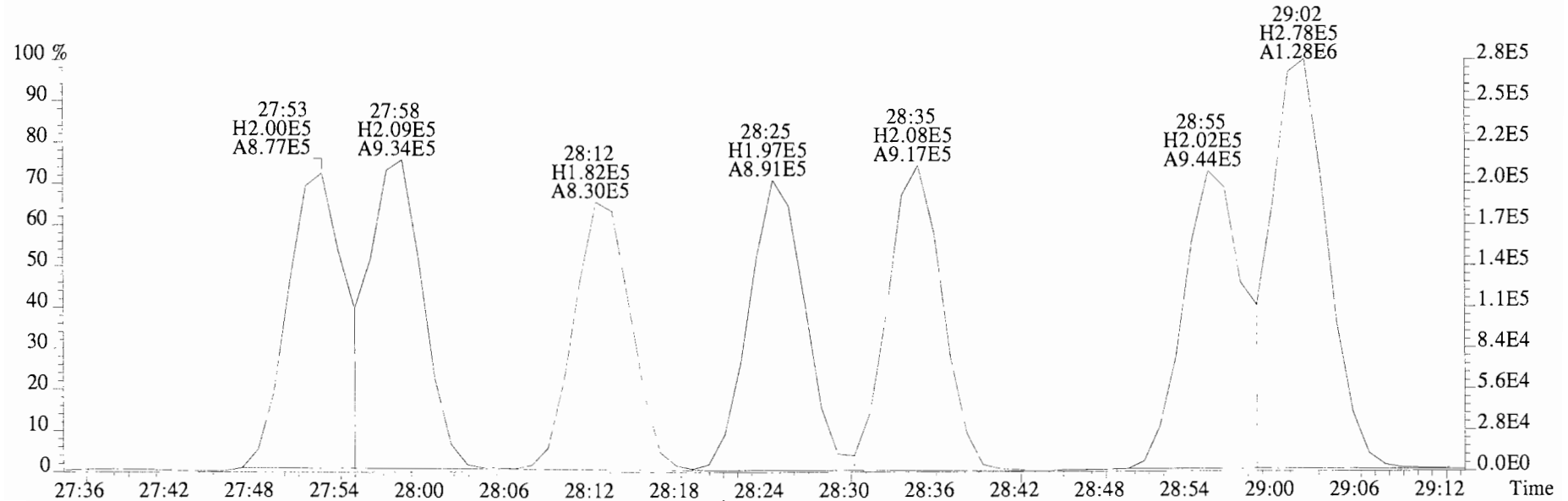
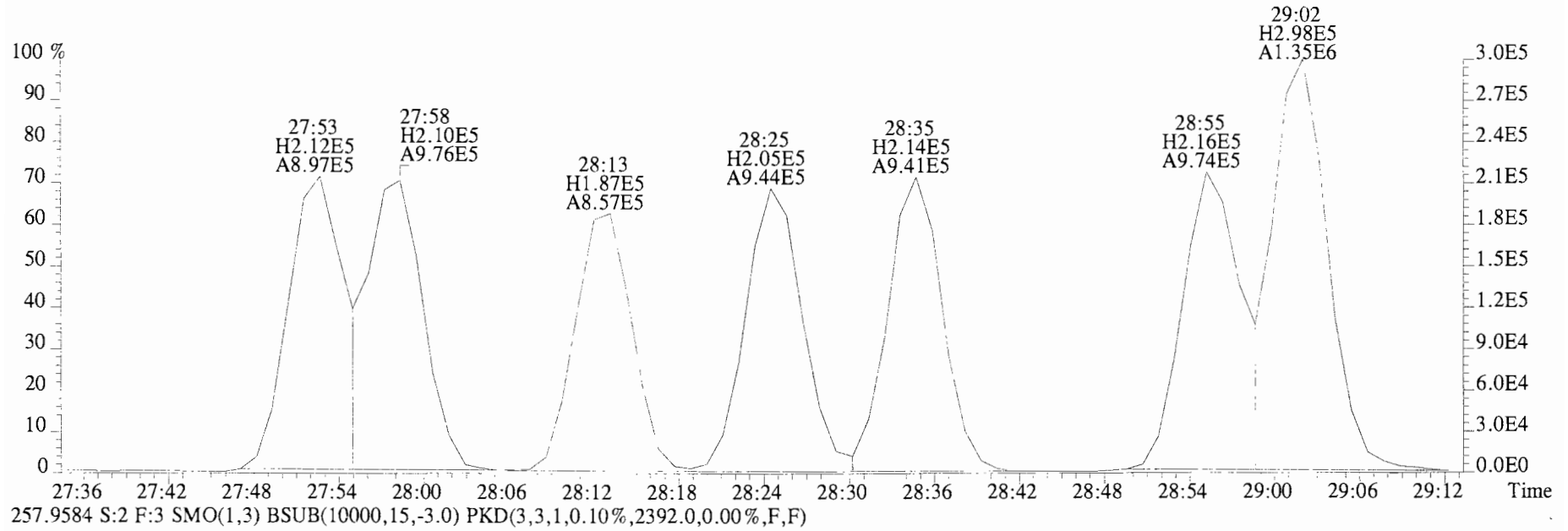
File:140623E2 #1-750 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



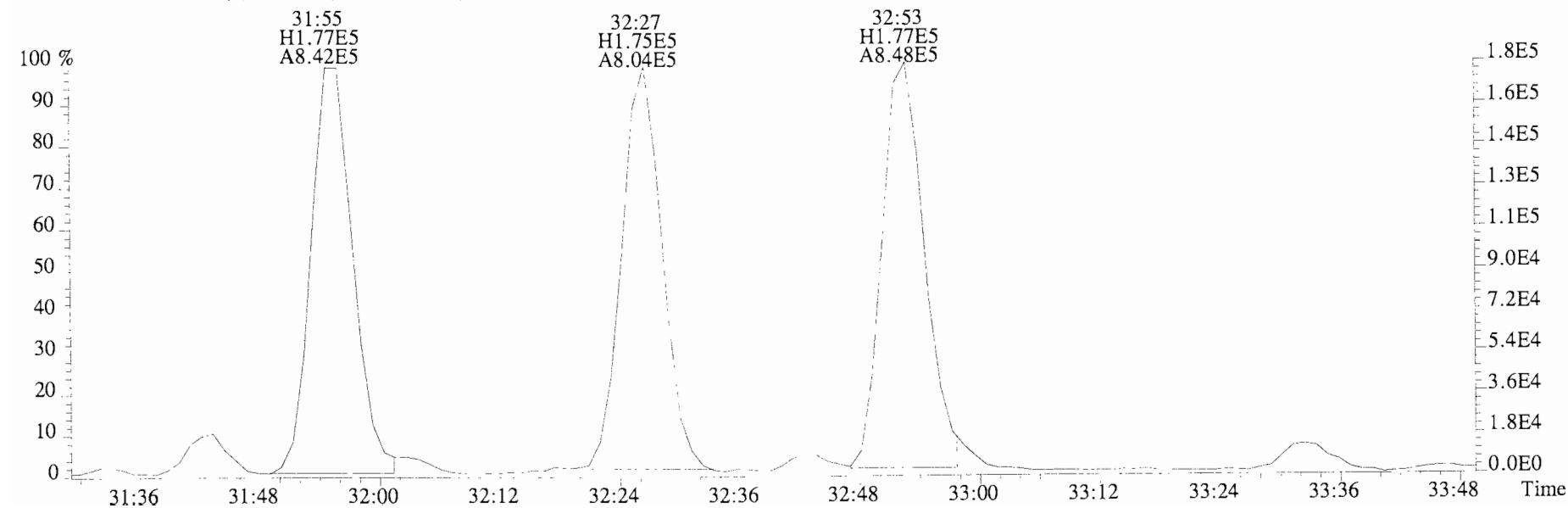
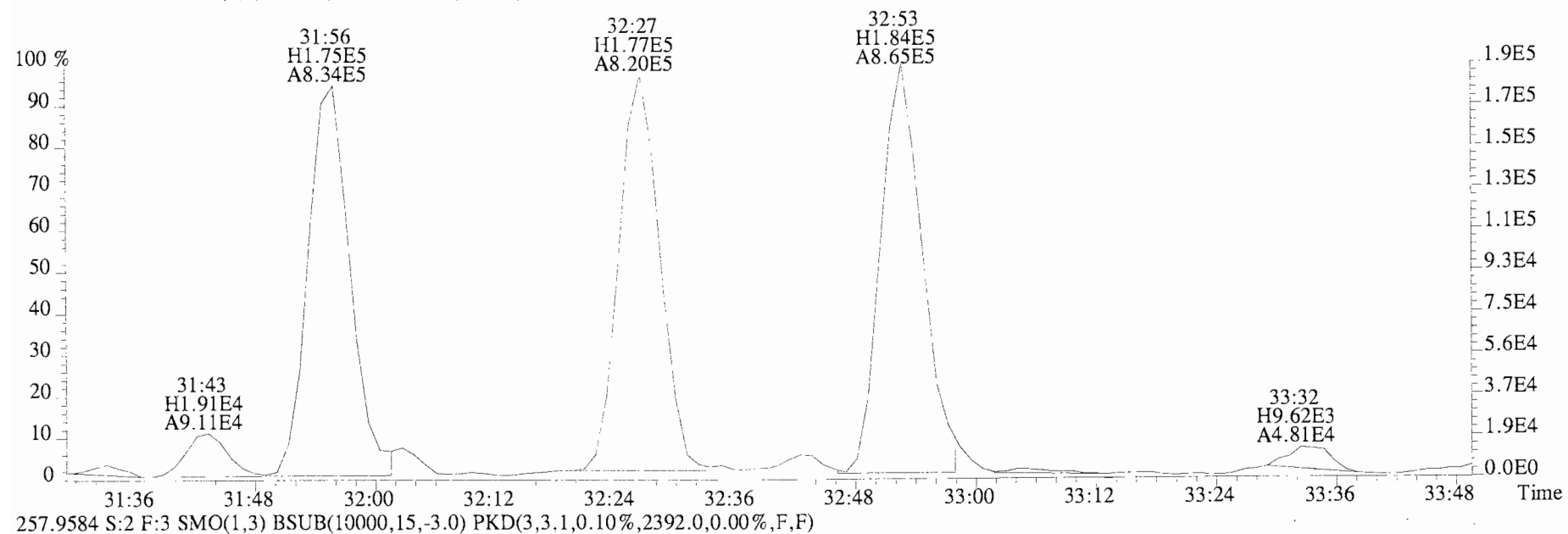
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2880.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2880.0,0.00%,F,F)

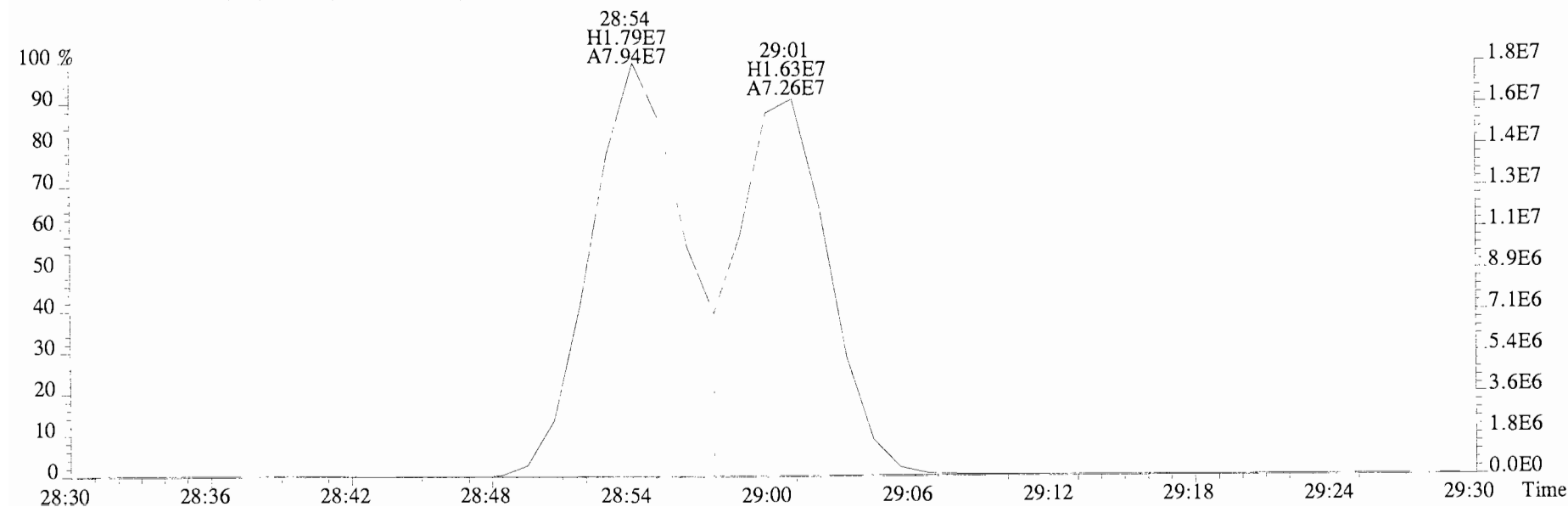
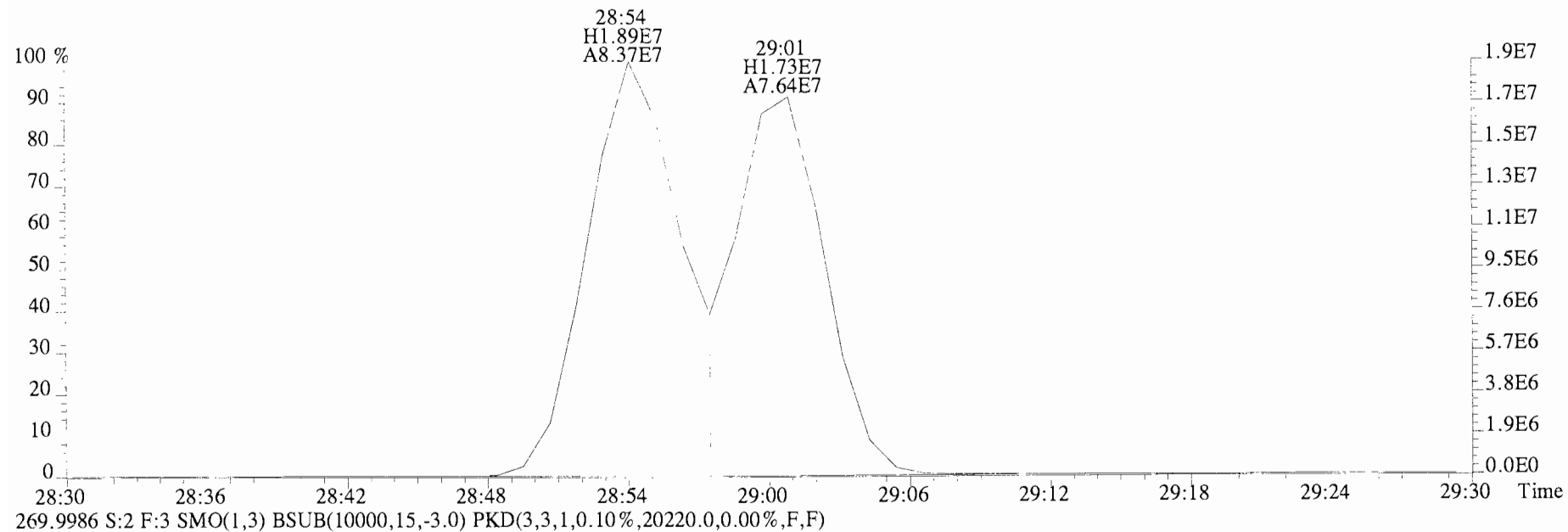


File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2880.0,0.00%,F,F)

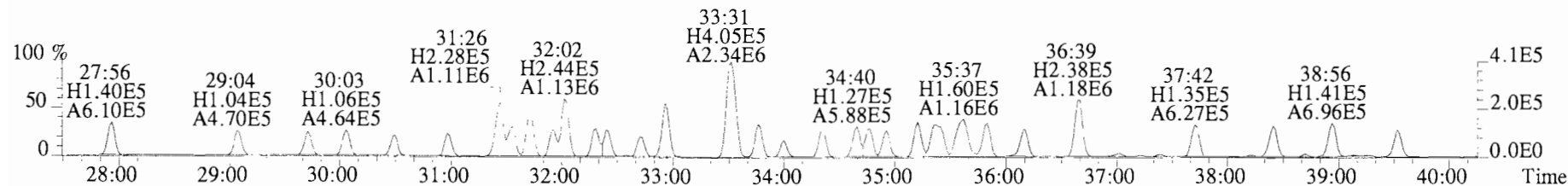




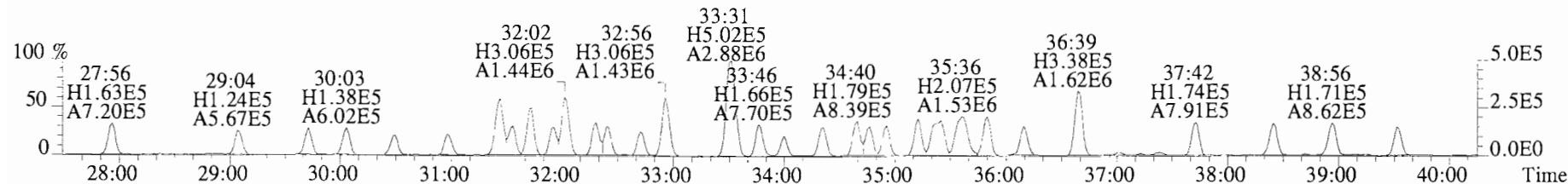
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36404.0,0.00%,F,F)



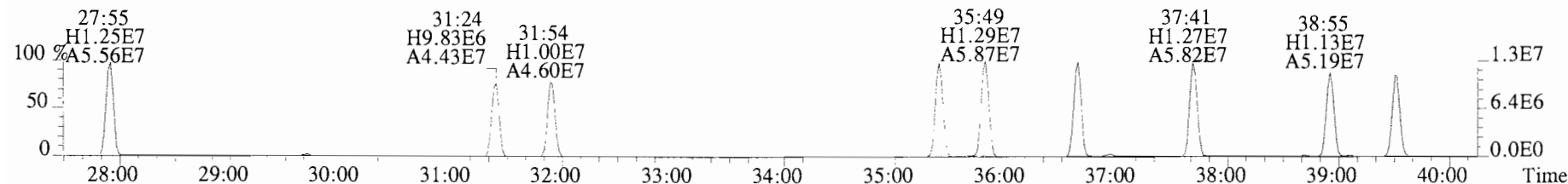
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



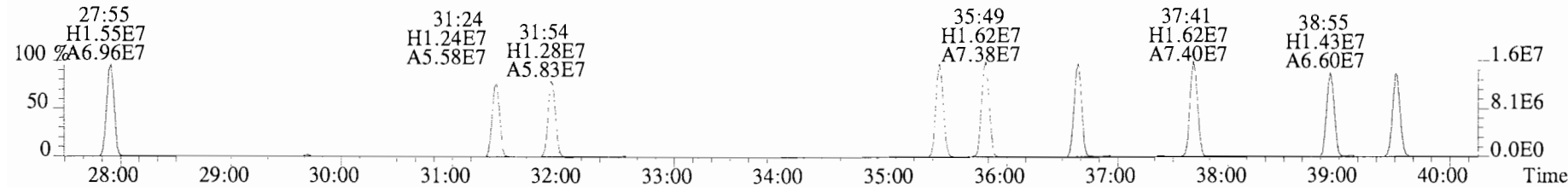
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)



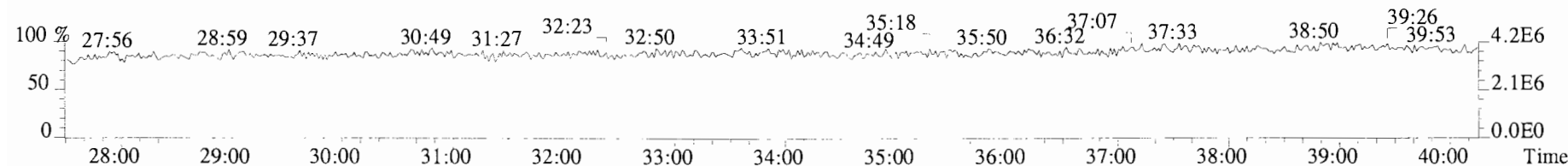
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5704.0,0.00%,F,F)



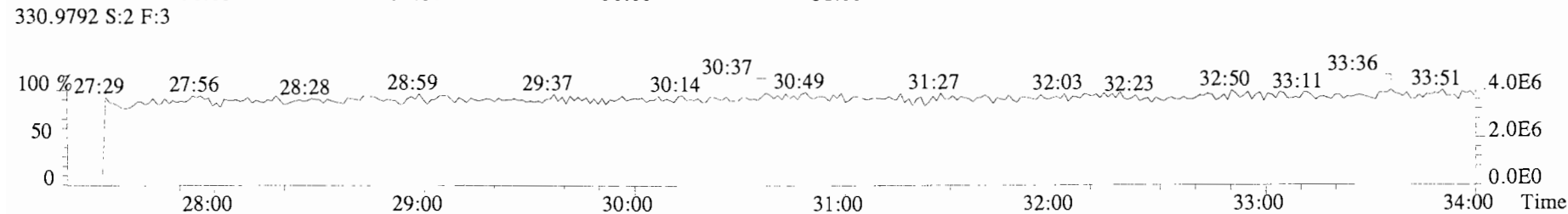
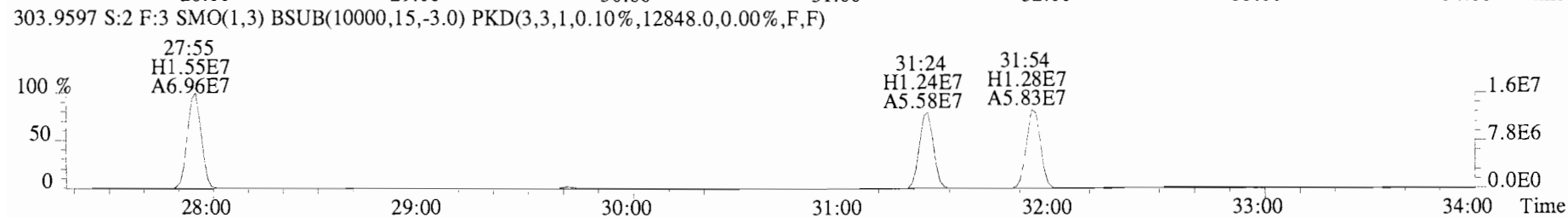
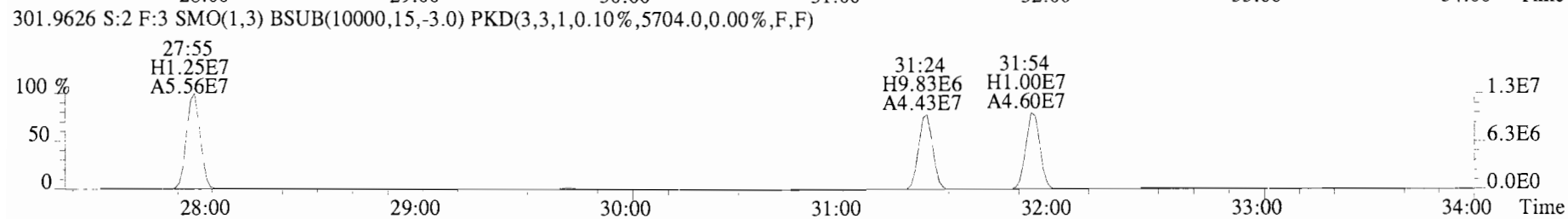
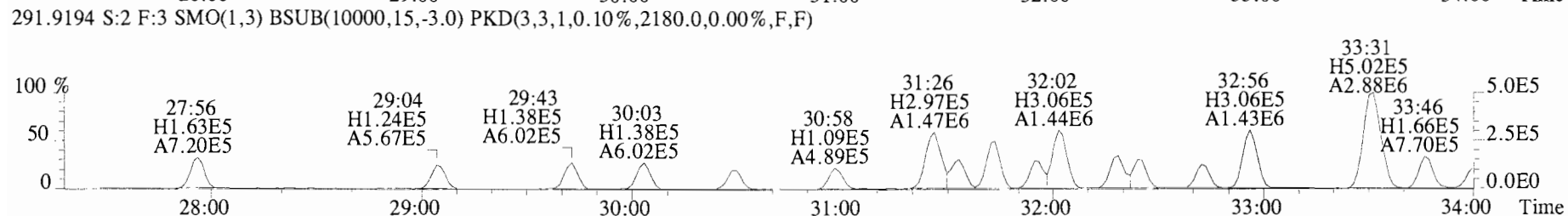
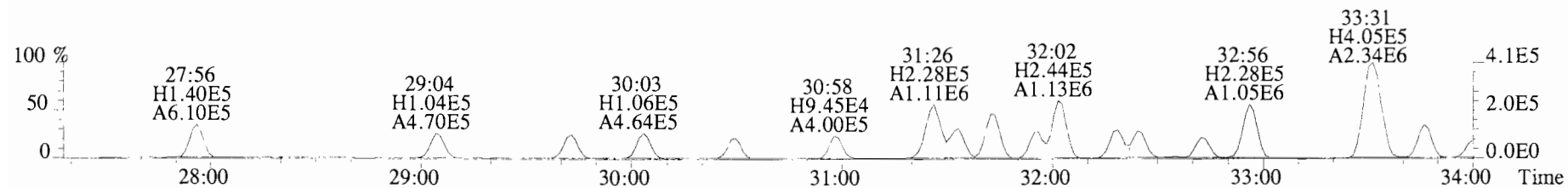
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12848.0,0.00%,F,F)



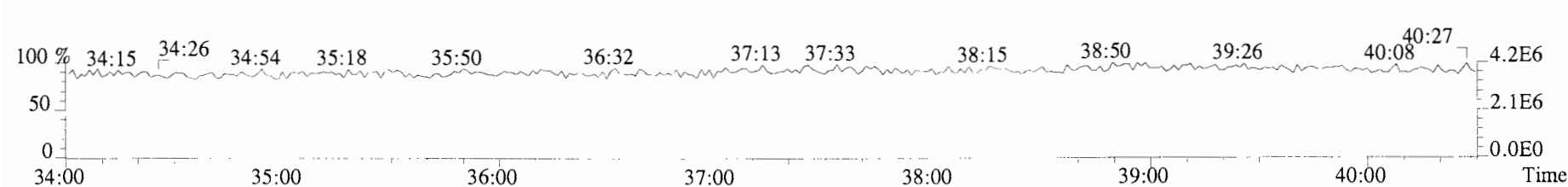
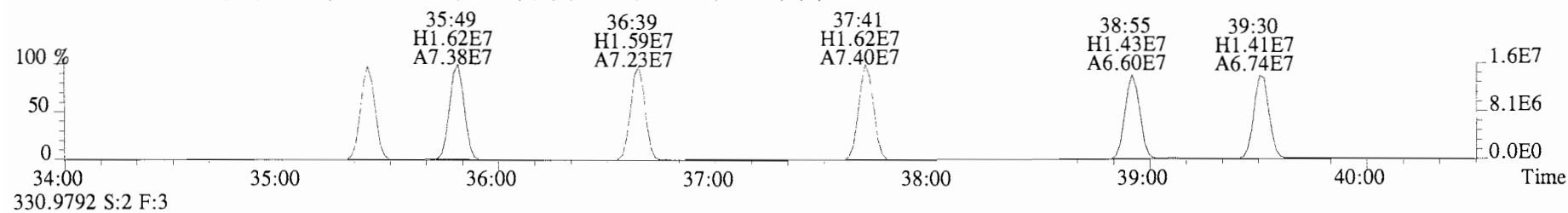
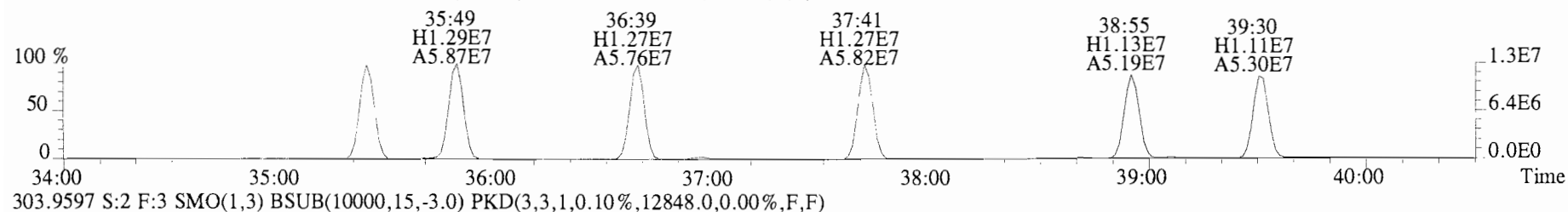
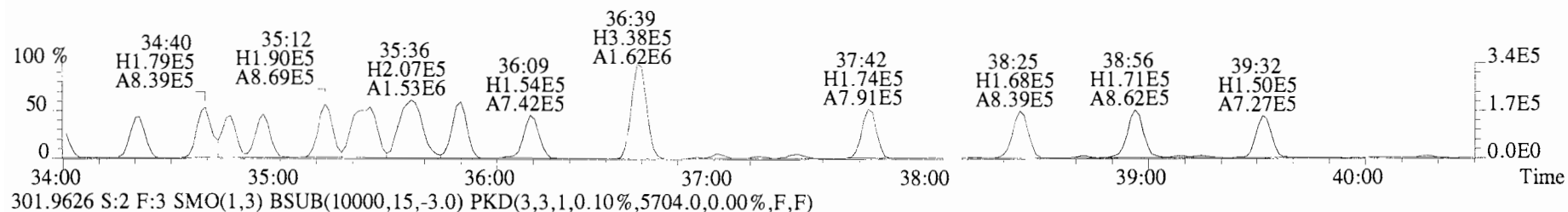
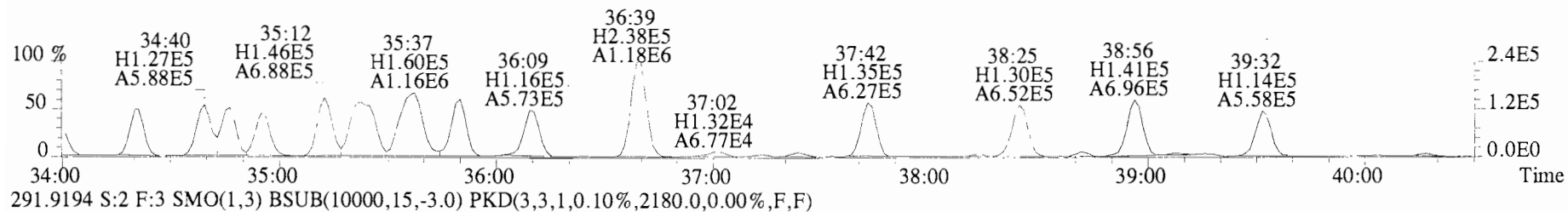
330.9792 S:2 F:3



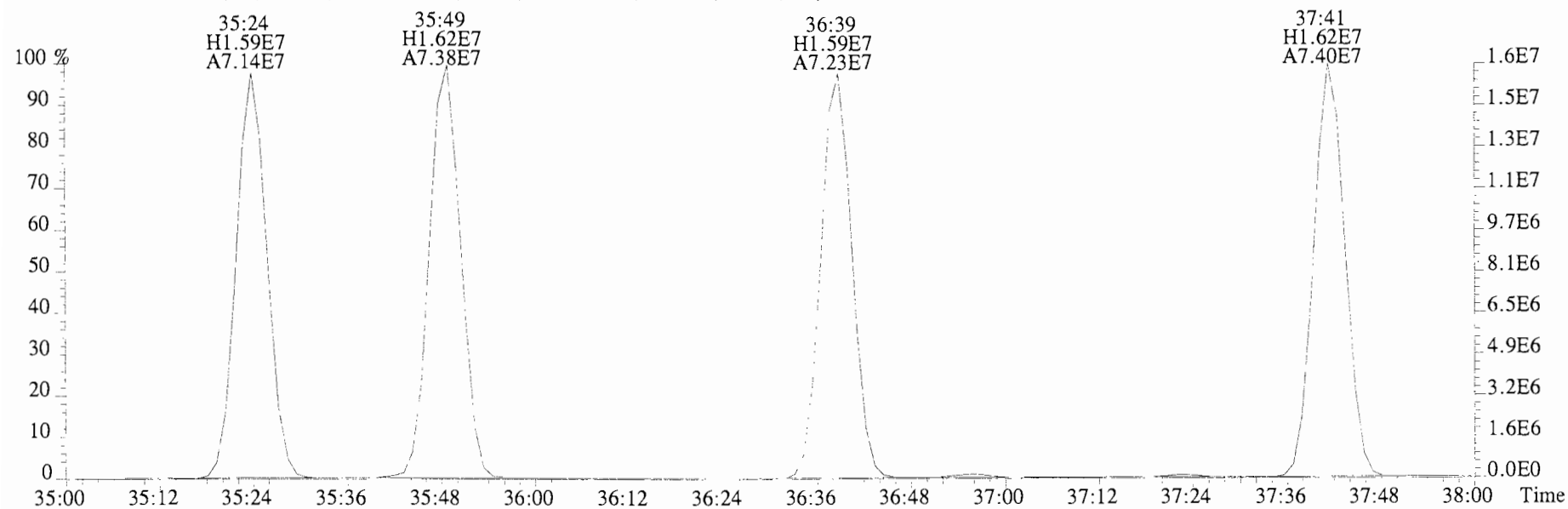
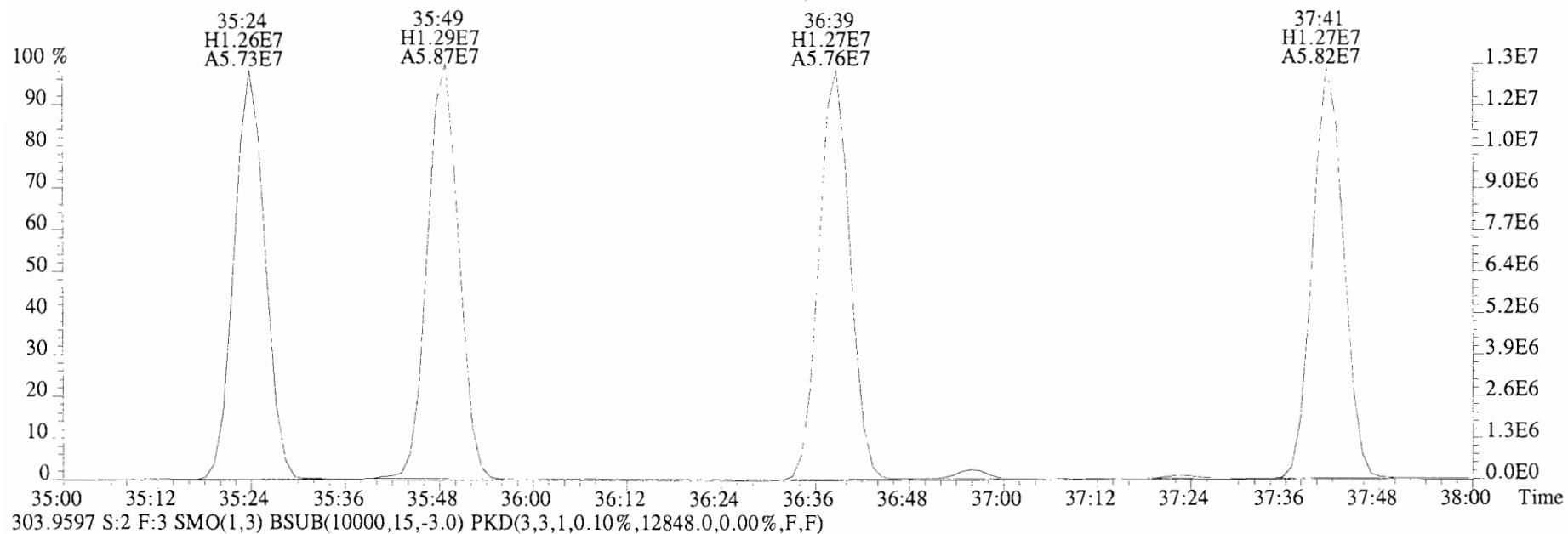
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



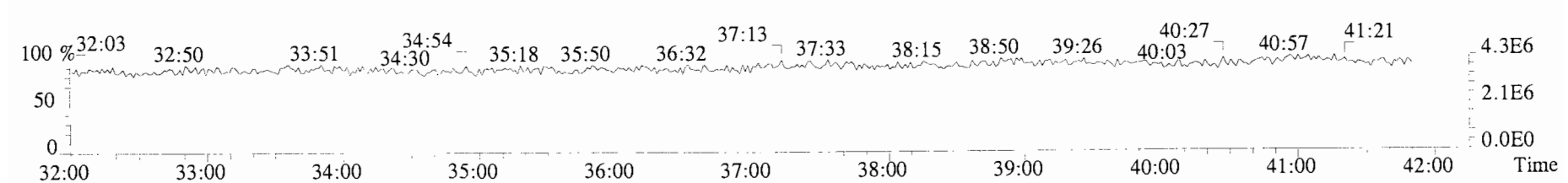
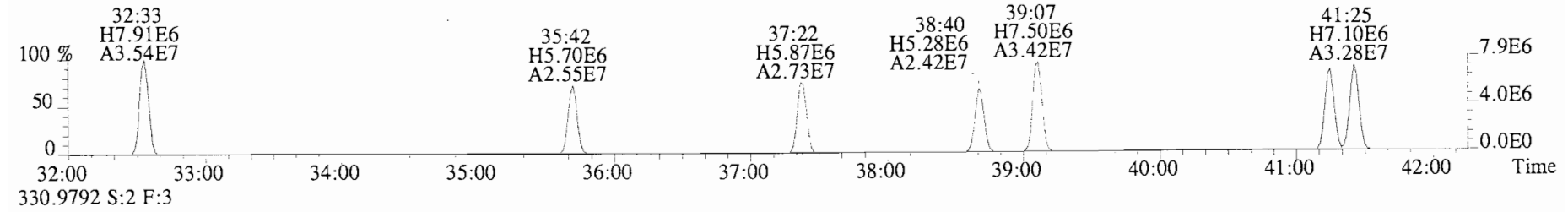
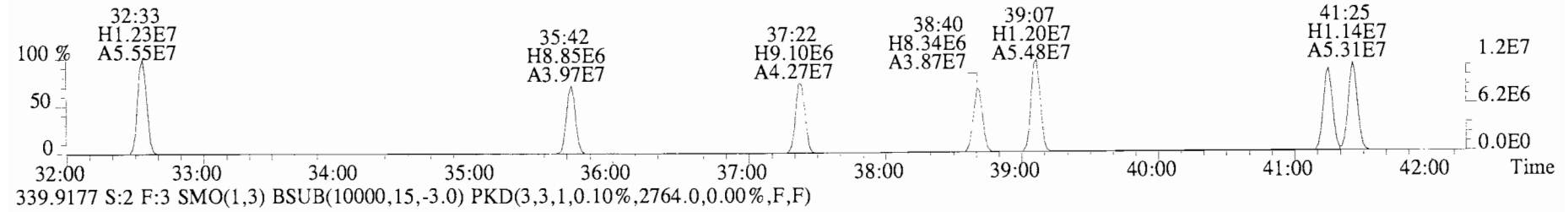
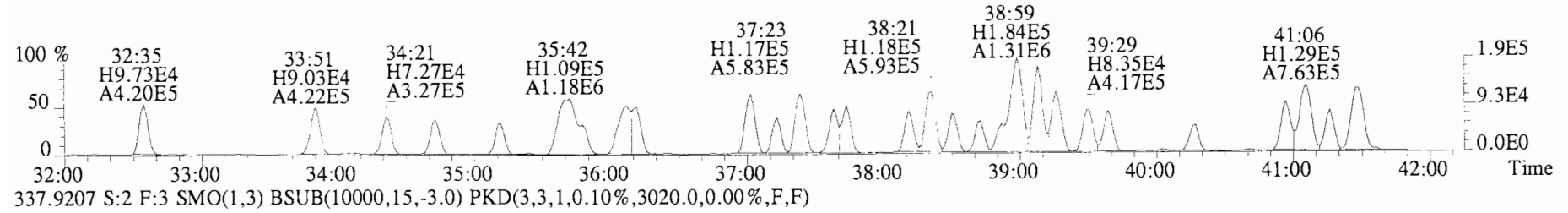
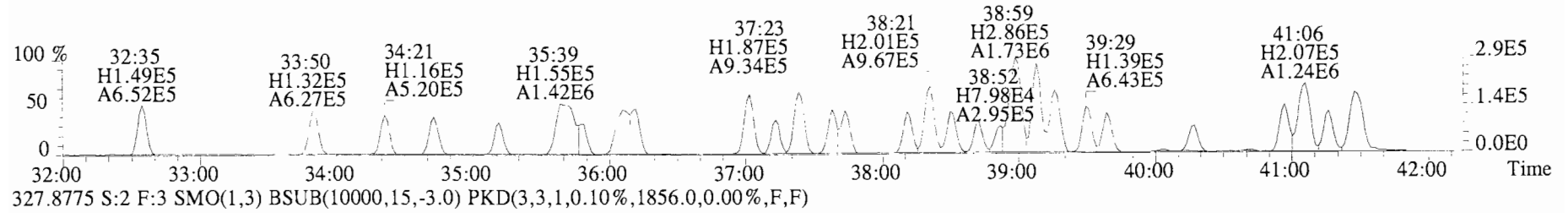
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



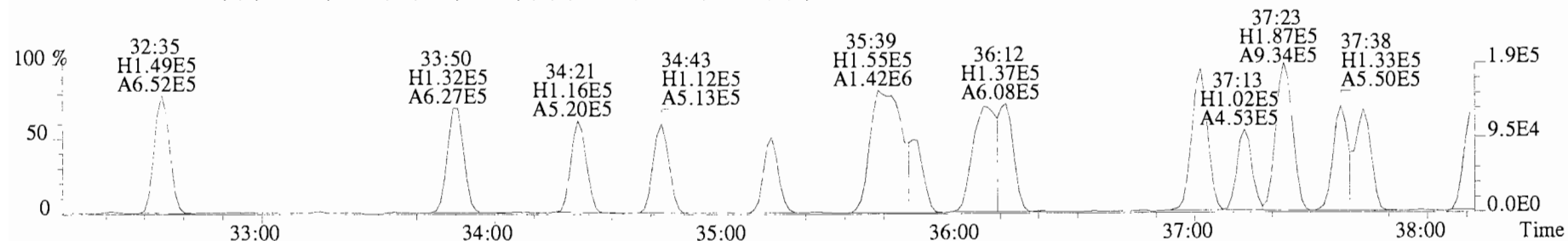
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5704.0,0.00%,F,F)



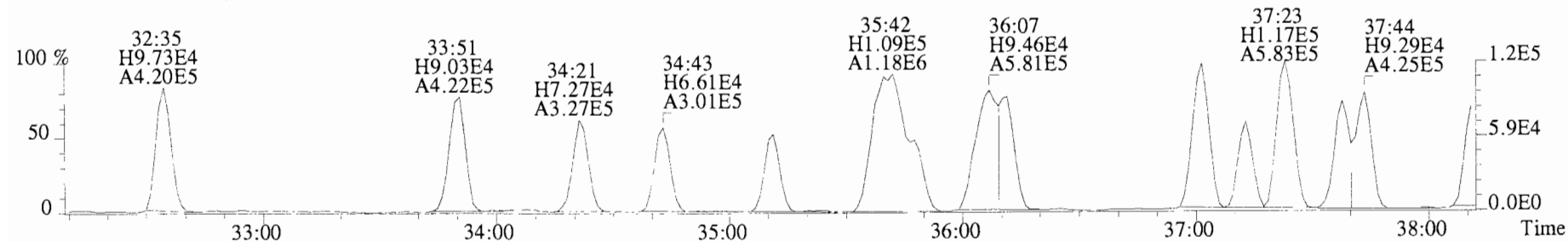
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



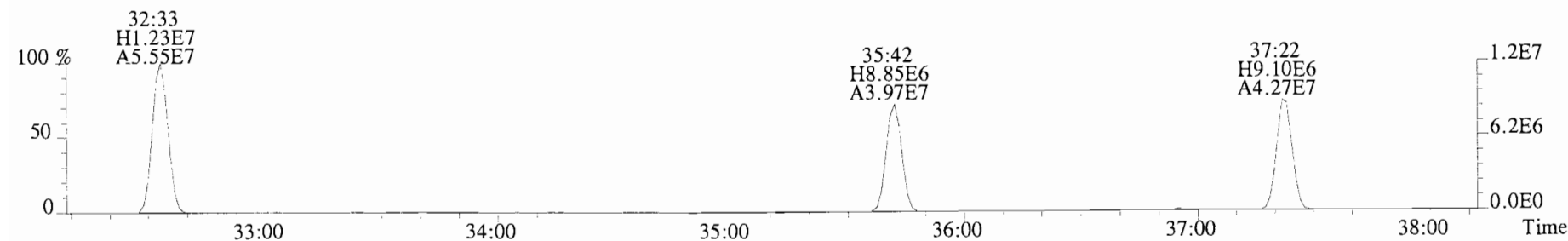
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



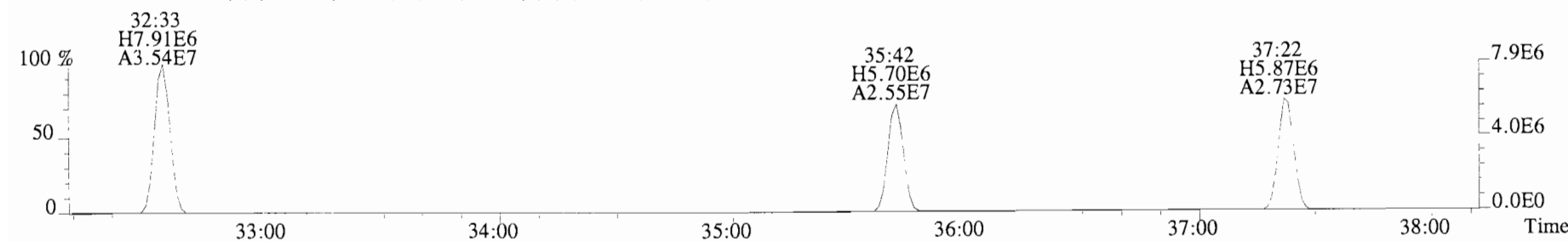
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



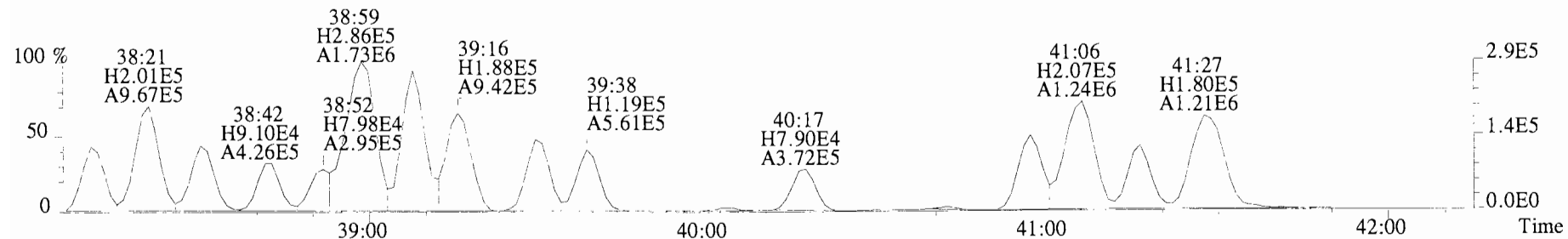
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3020.0,0.00%,F,F)



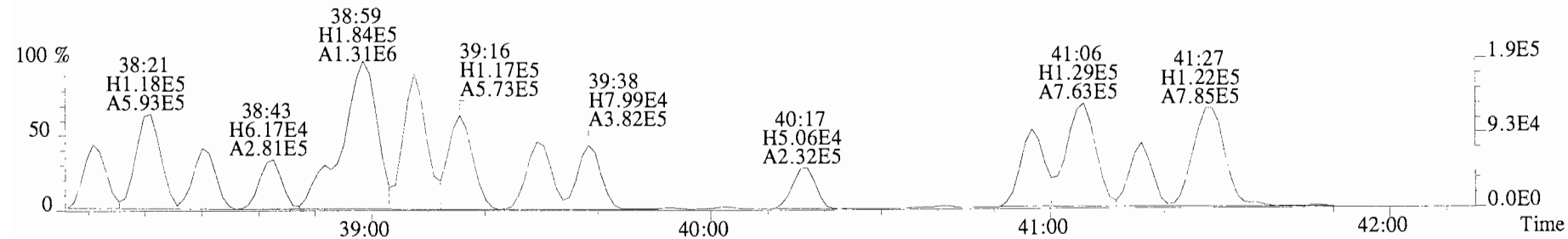
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2764.0,0.00%,F,F)



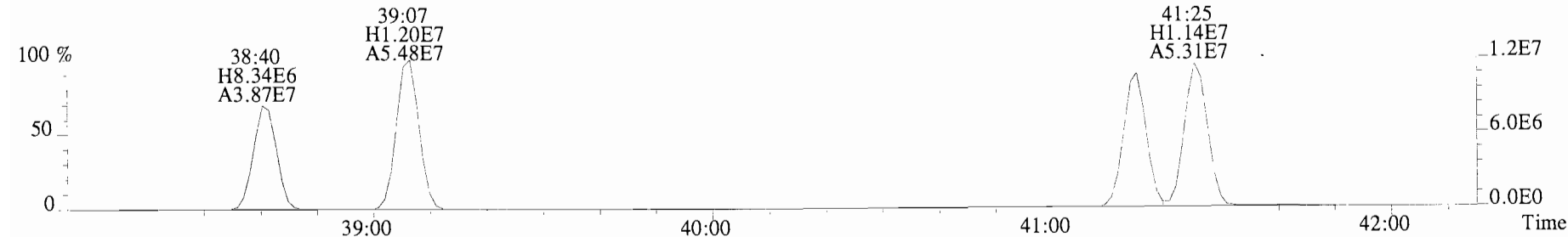
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



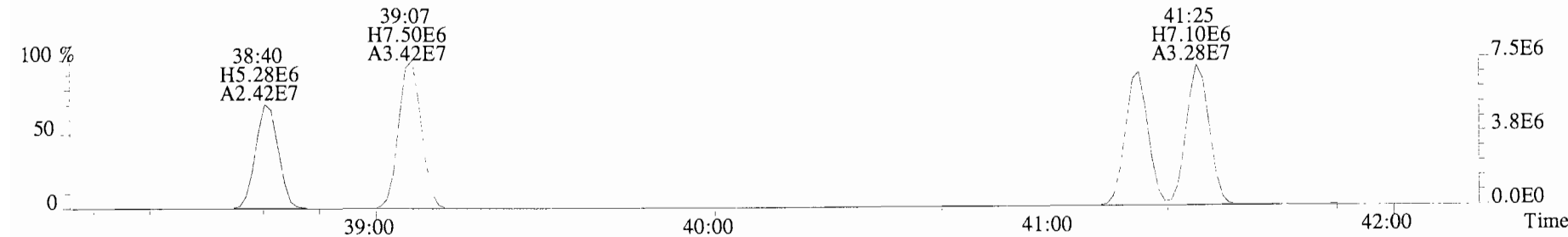
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3020.0,0.00%,F,F)

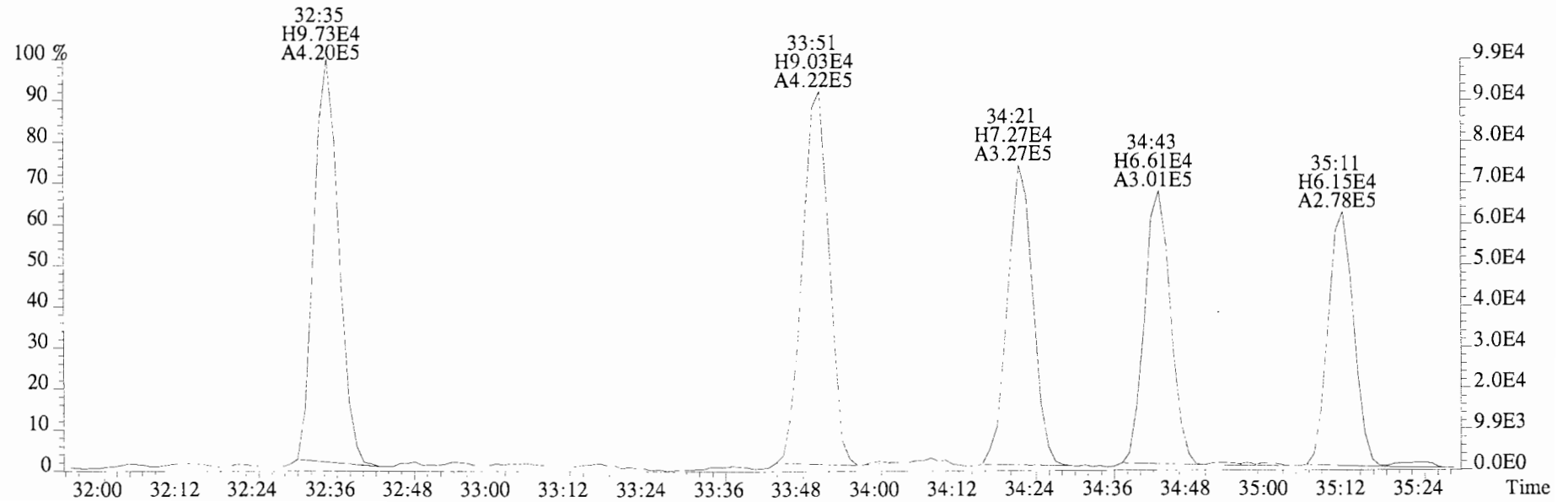
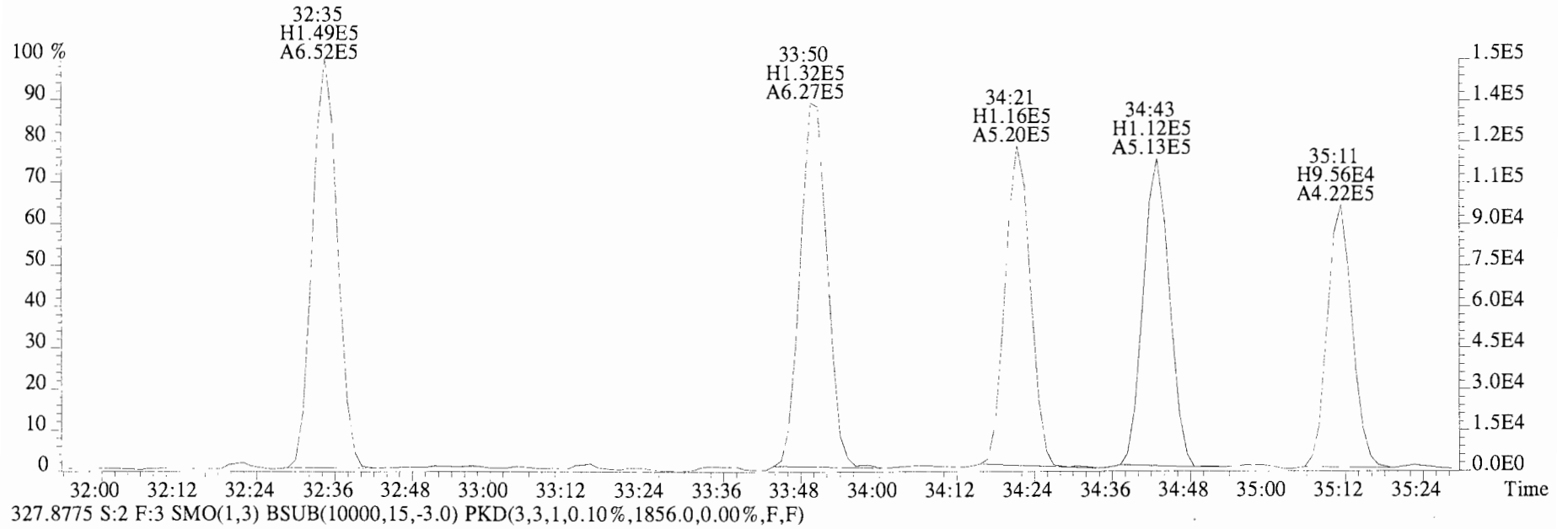


339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2764.0,0.00%,F,F)

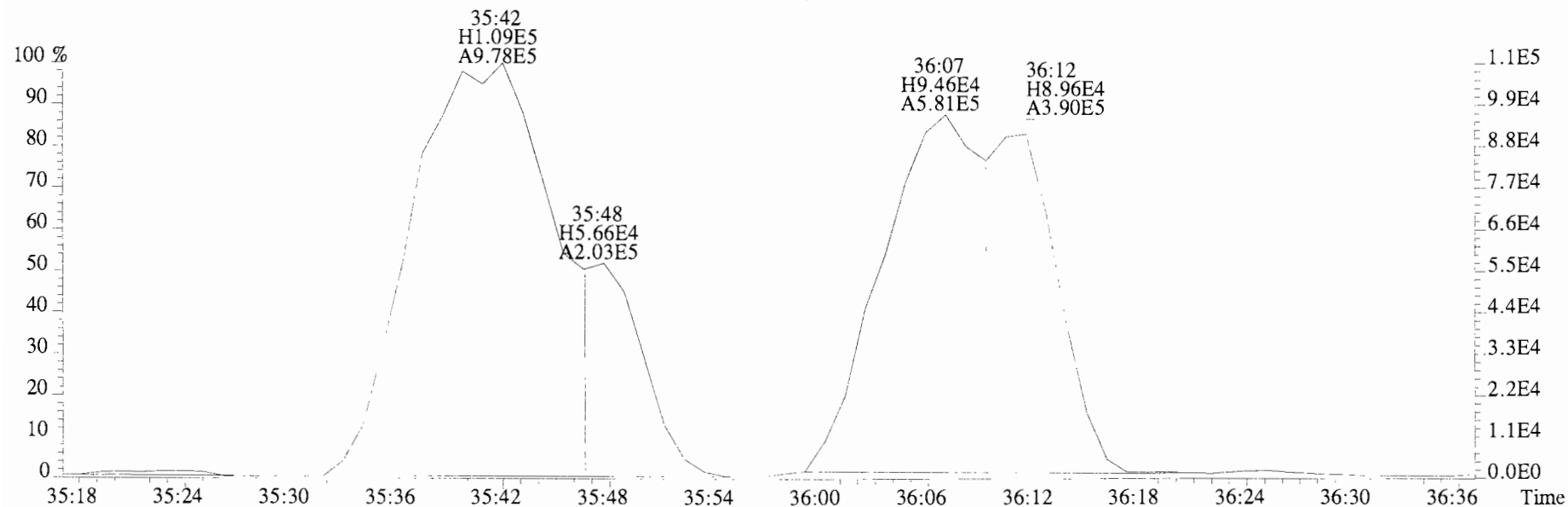
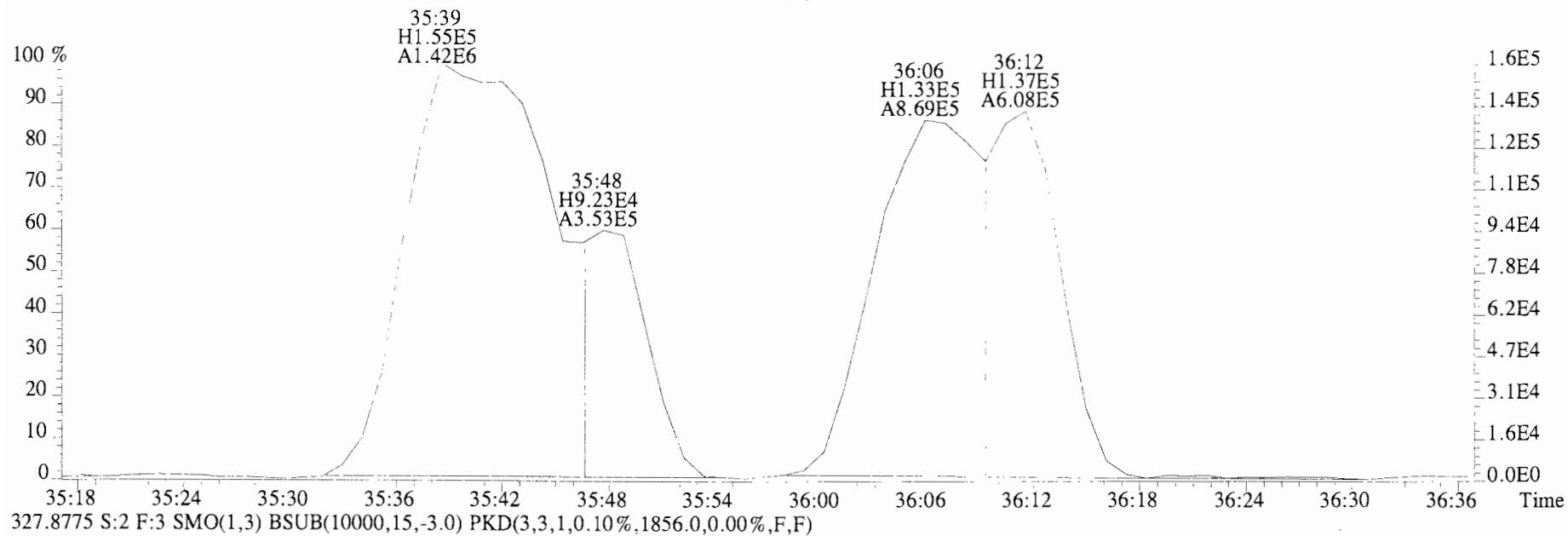




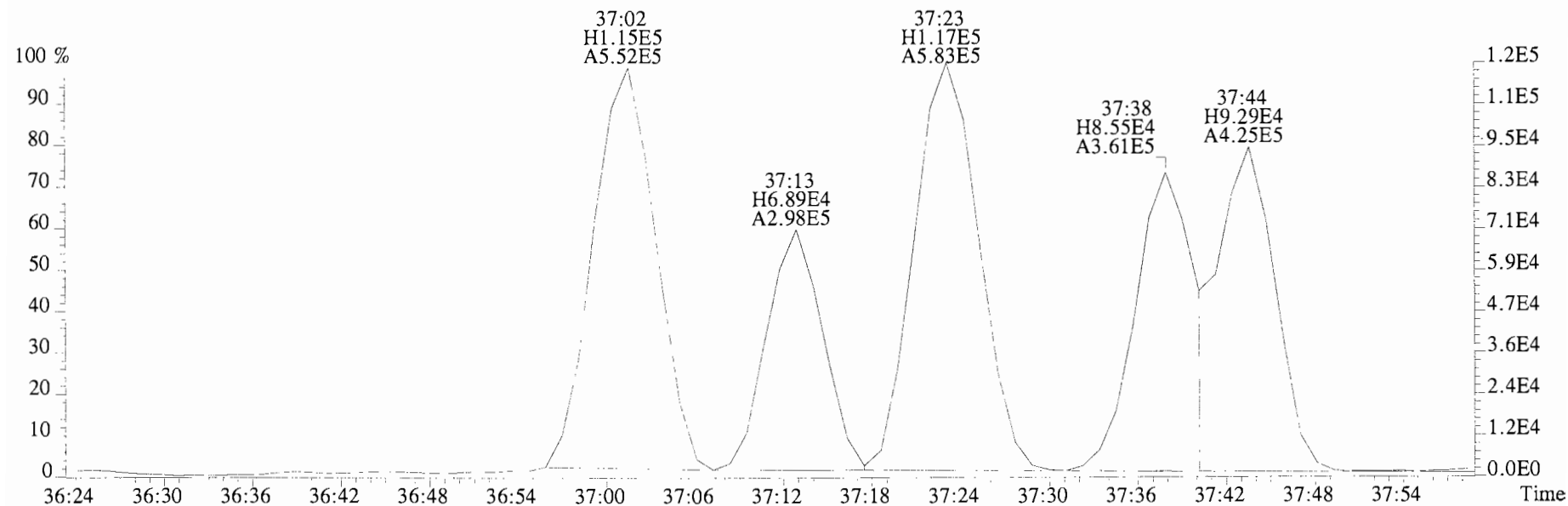
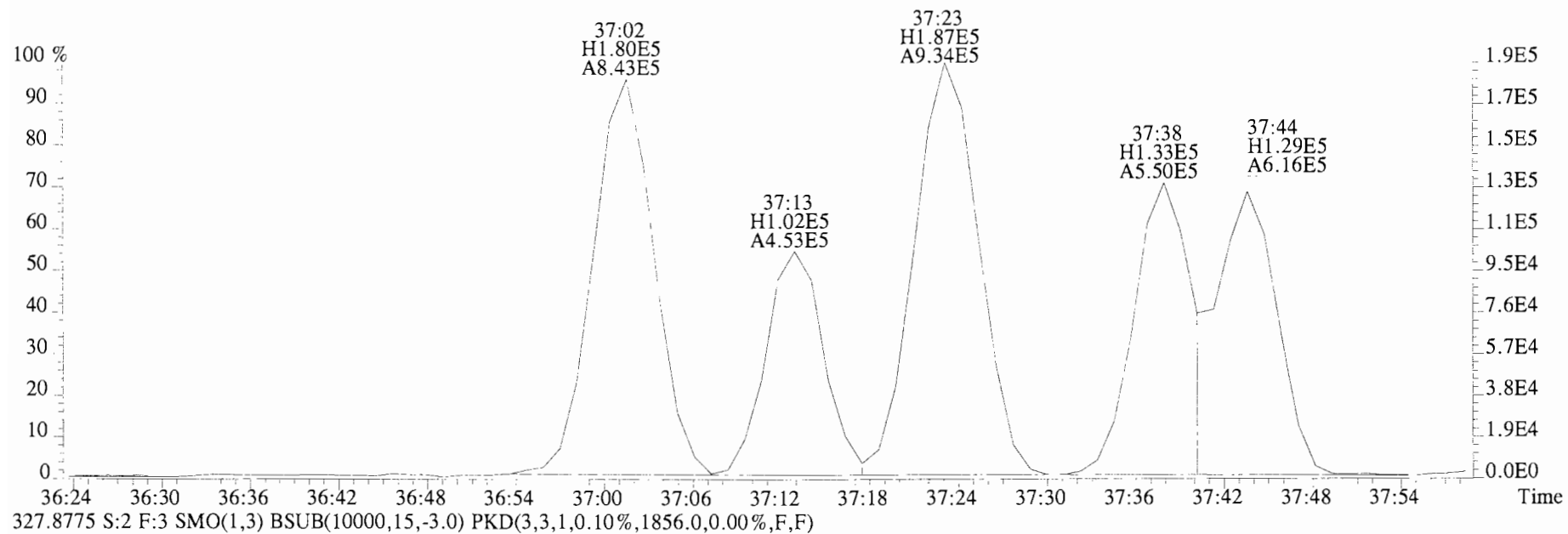
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



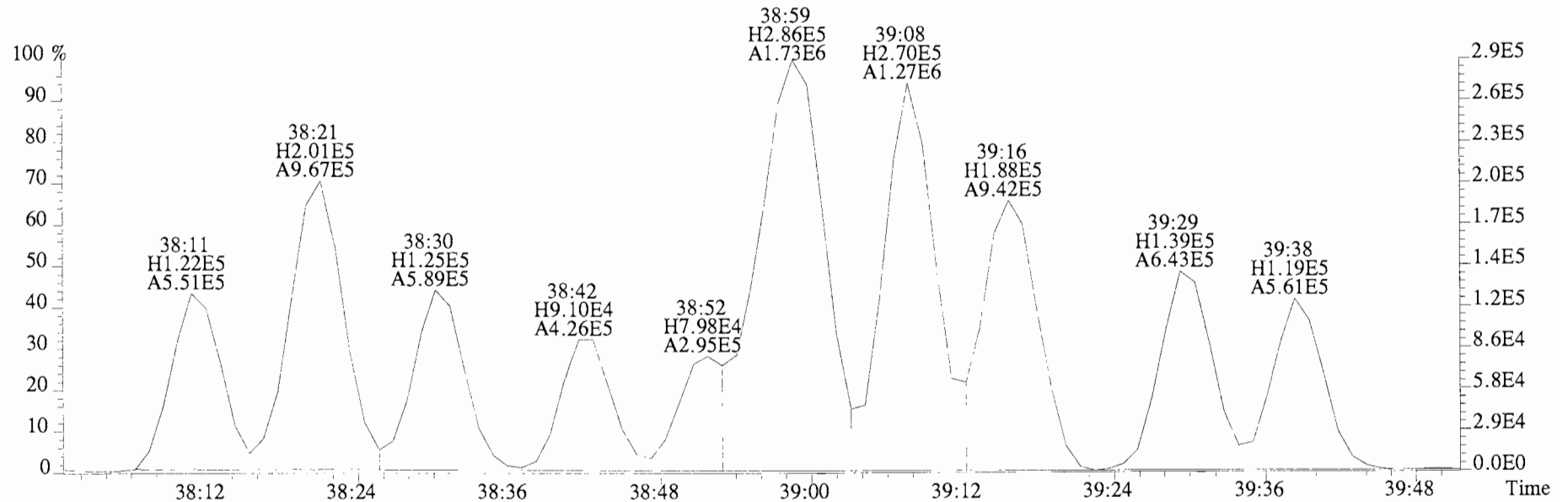
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



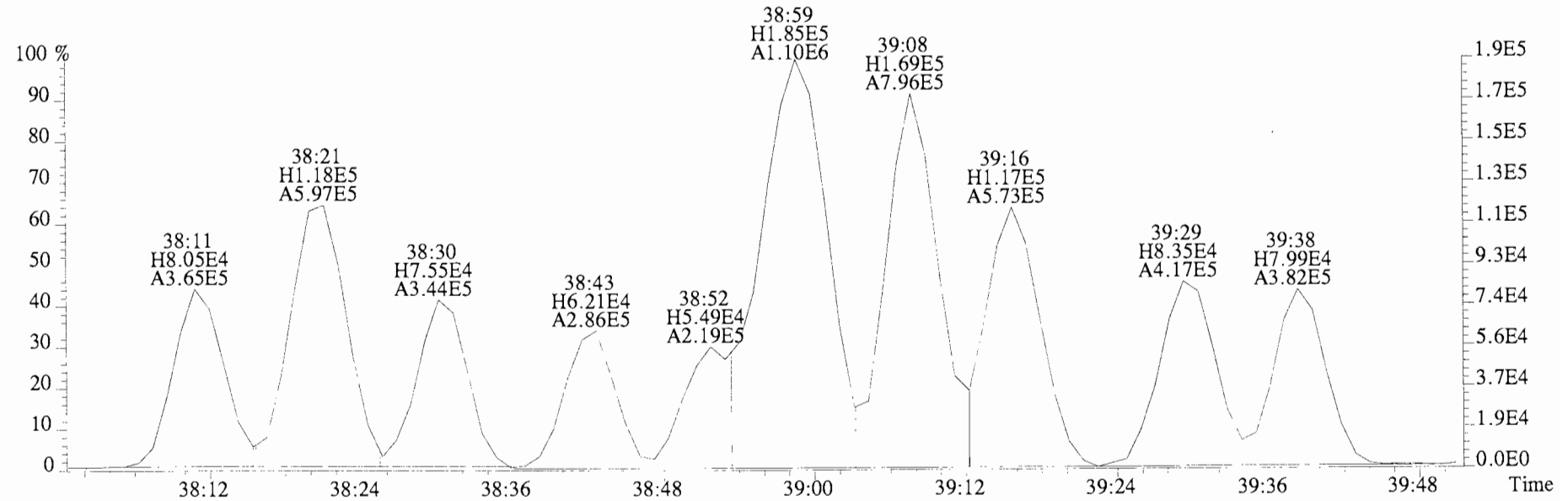
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



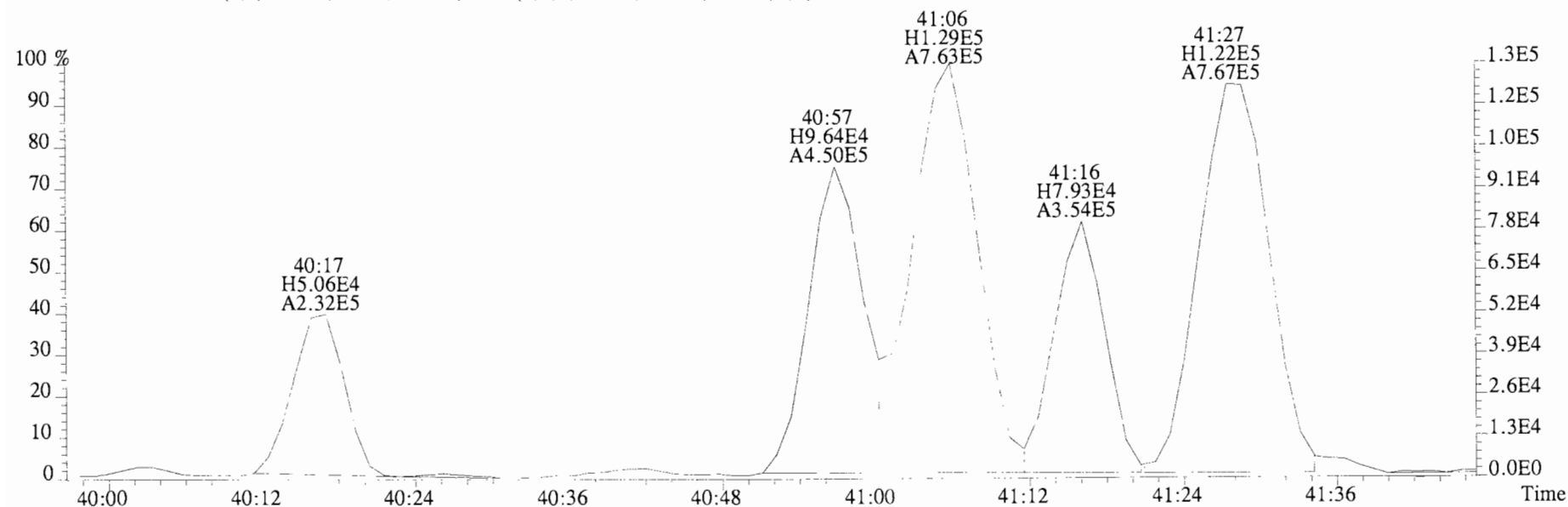
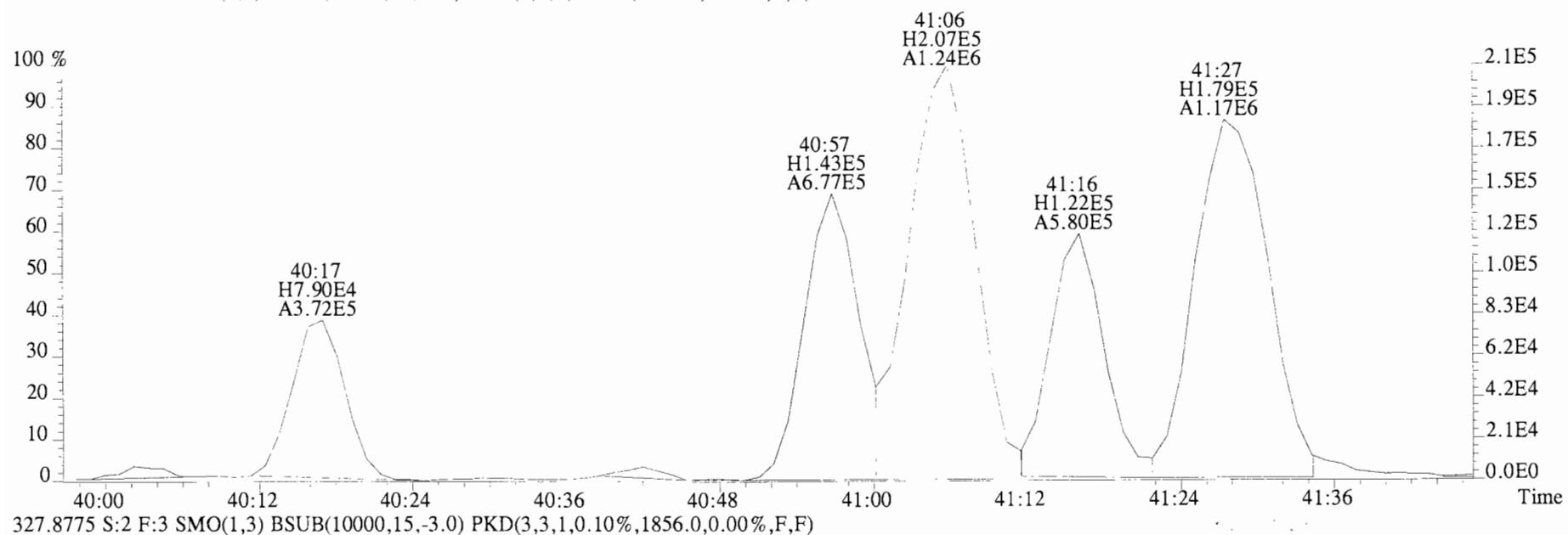
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



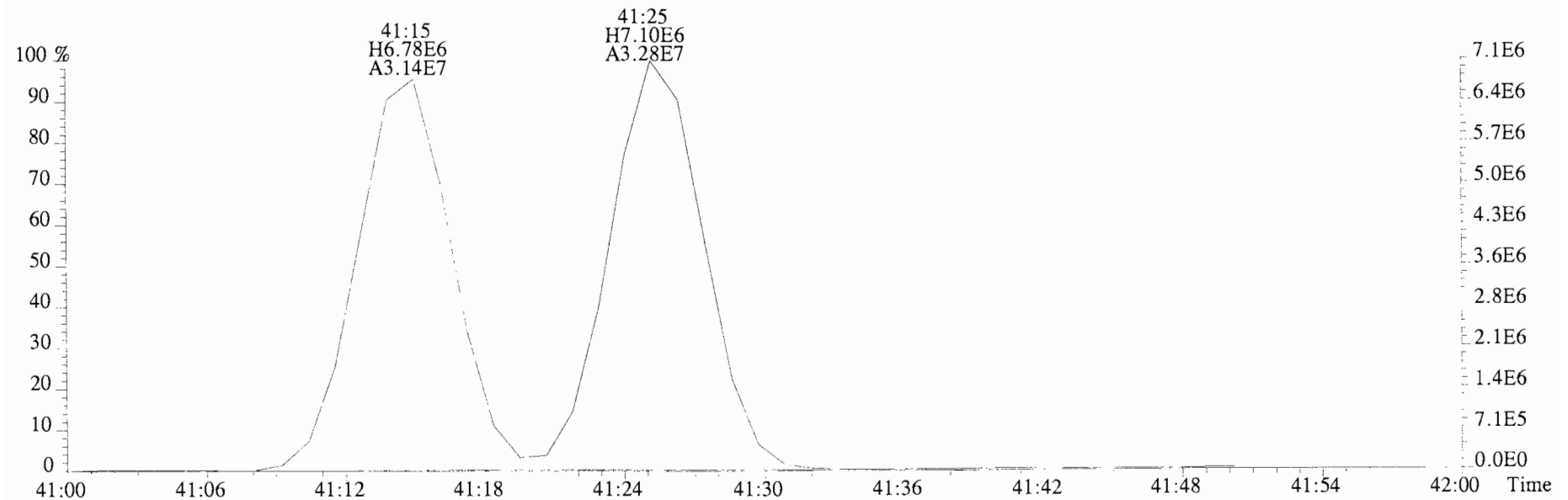
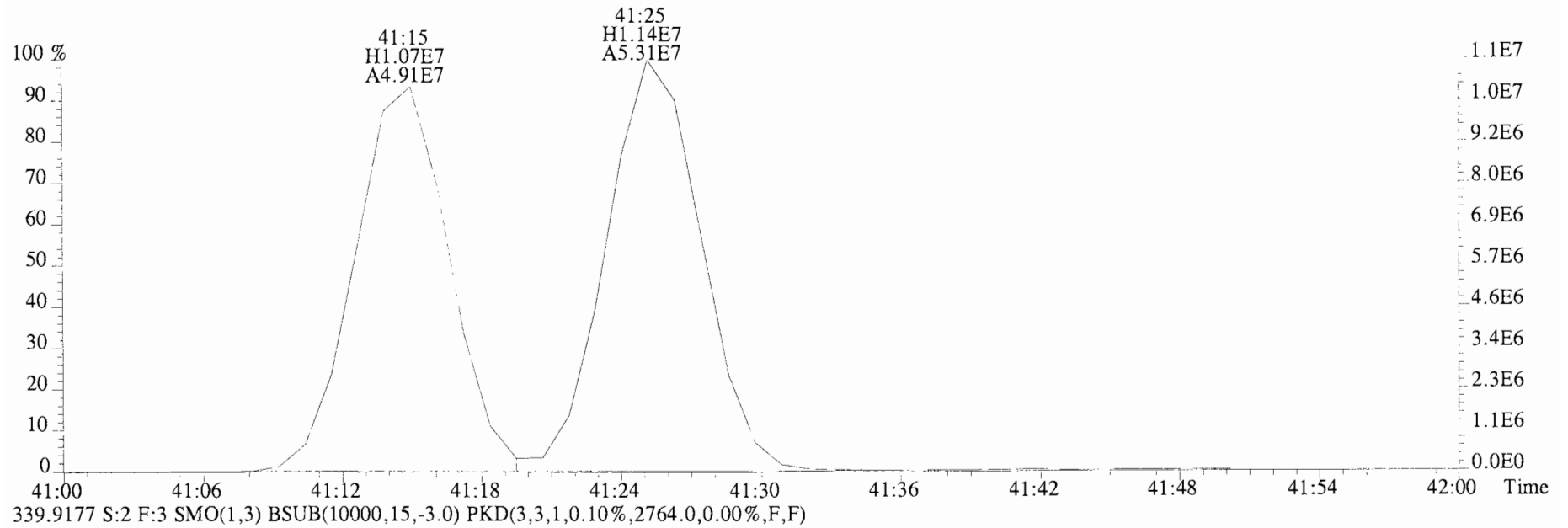
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



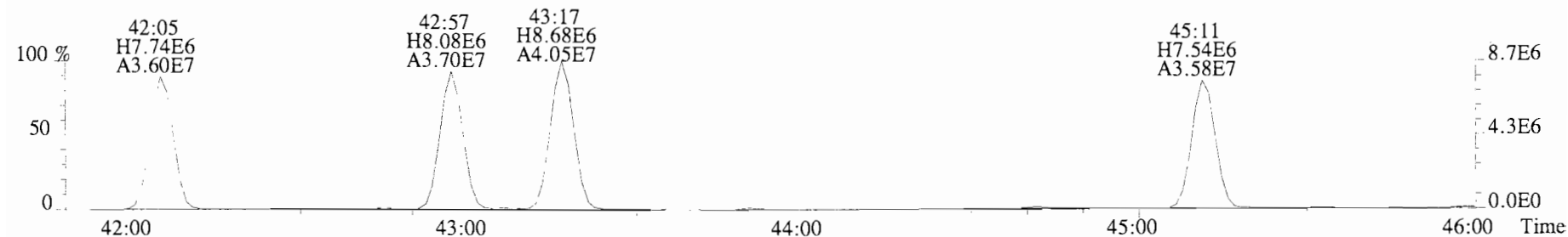
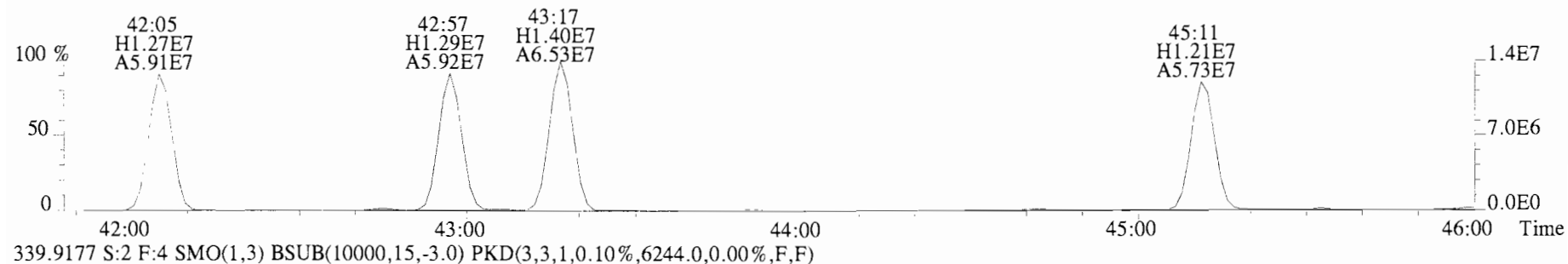
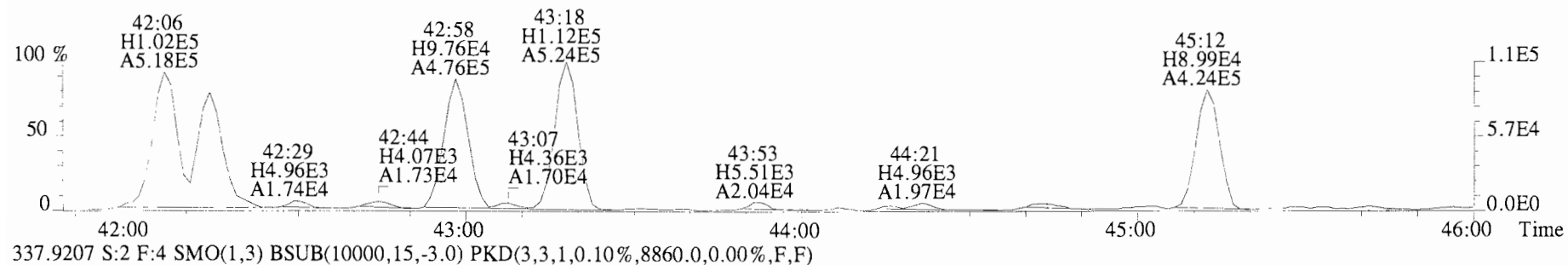
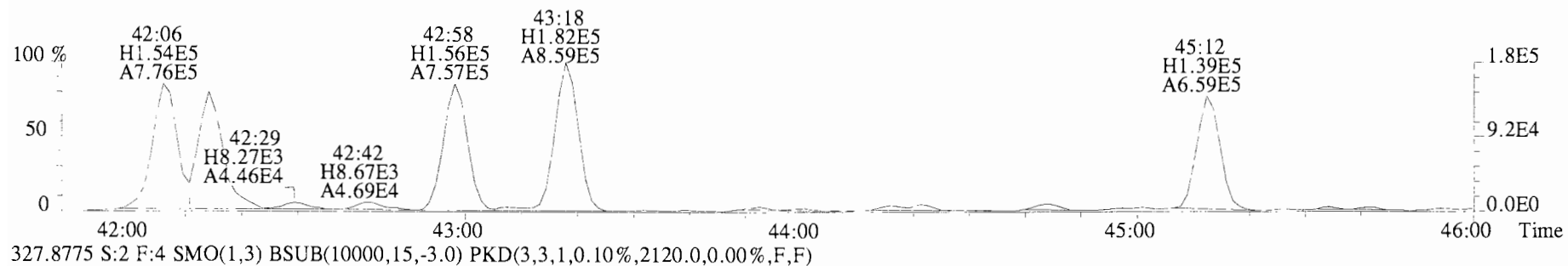
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



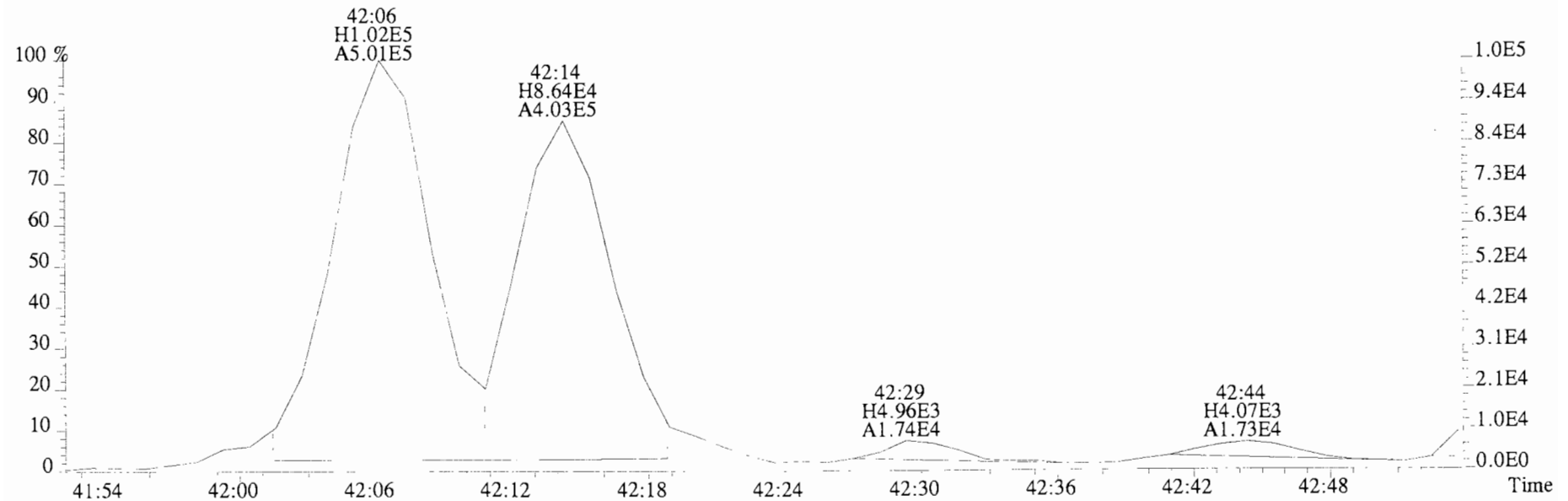
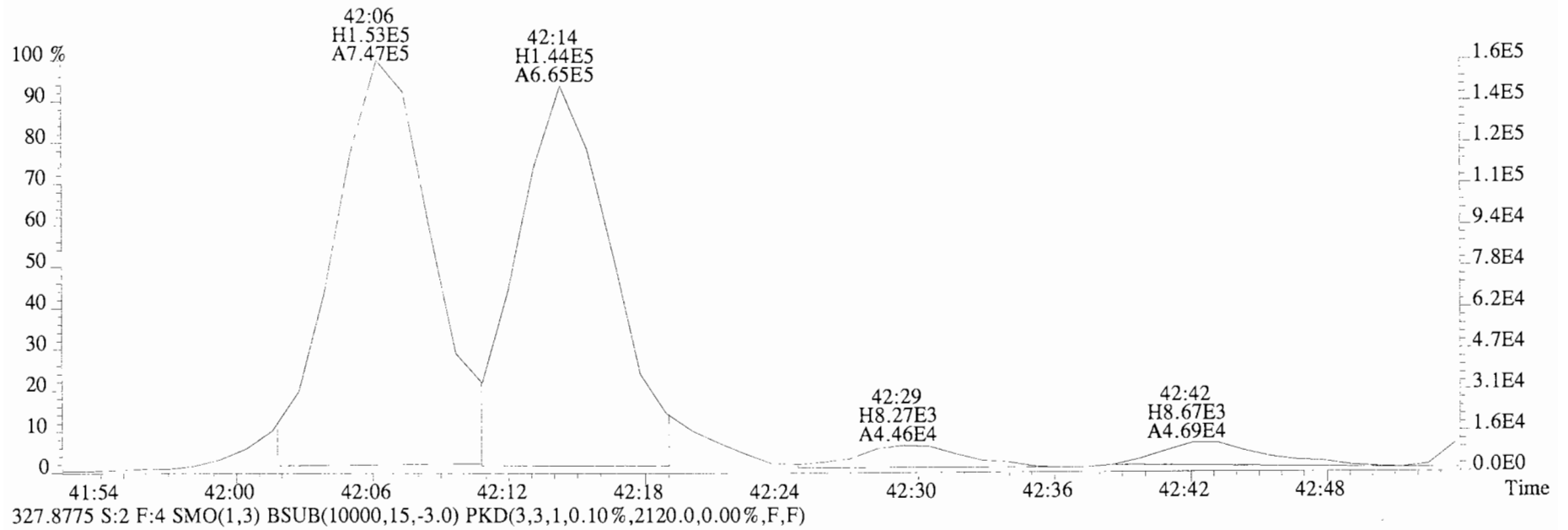
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3020.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2060.0,0.00%,F,F)

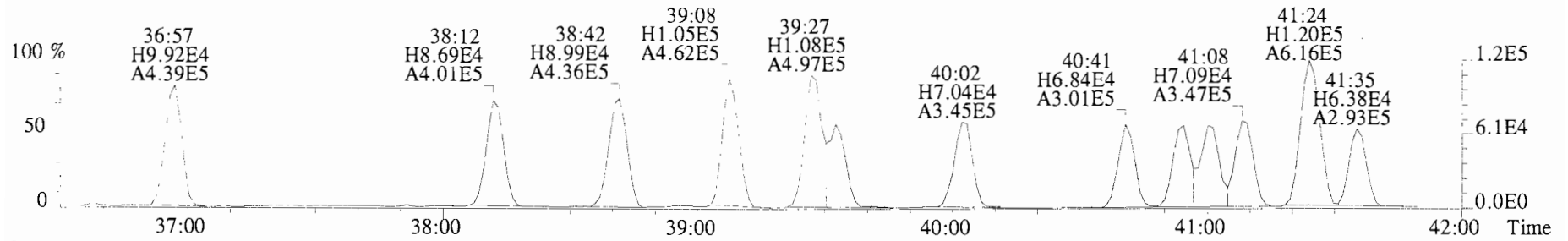


File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2060.0,0.00%,F,F)

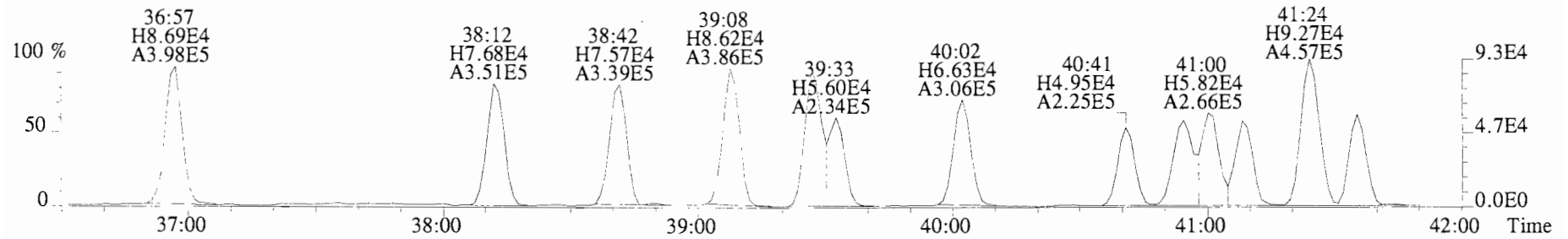




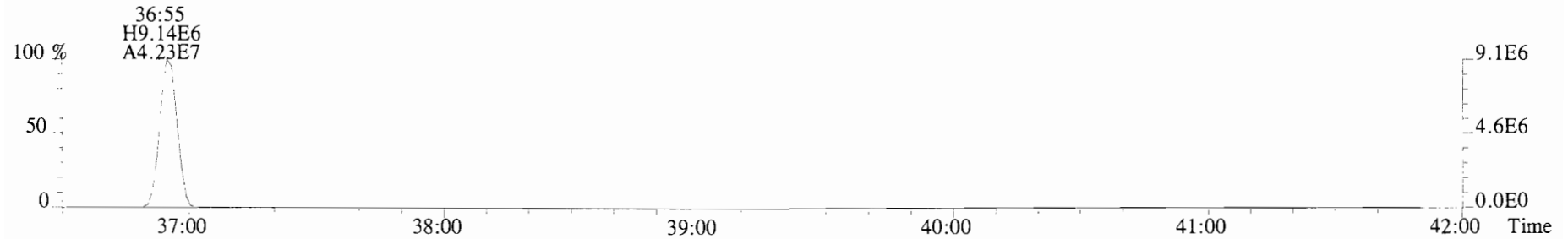
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



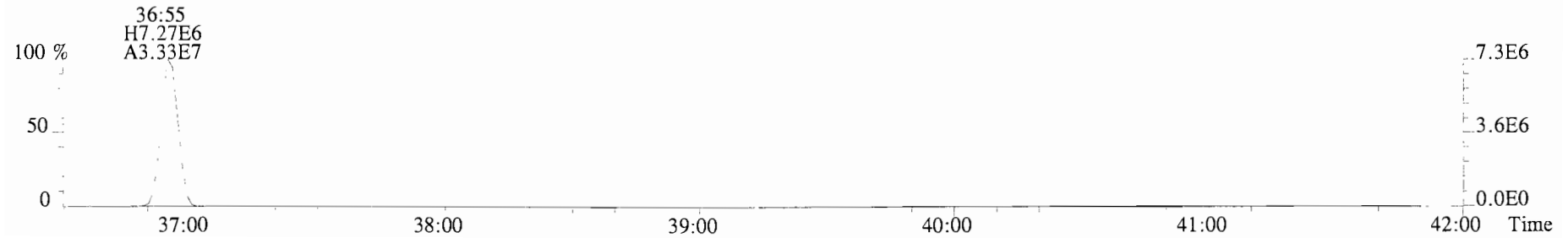
361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



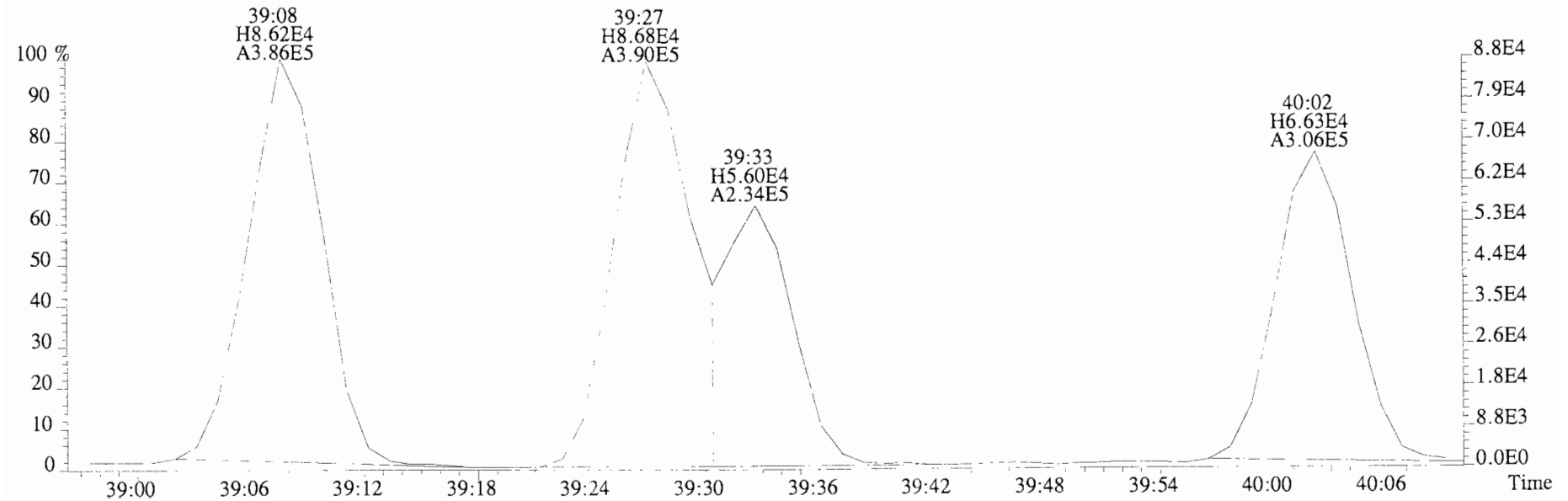
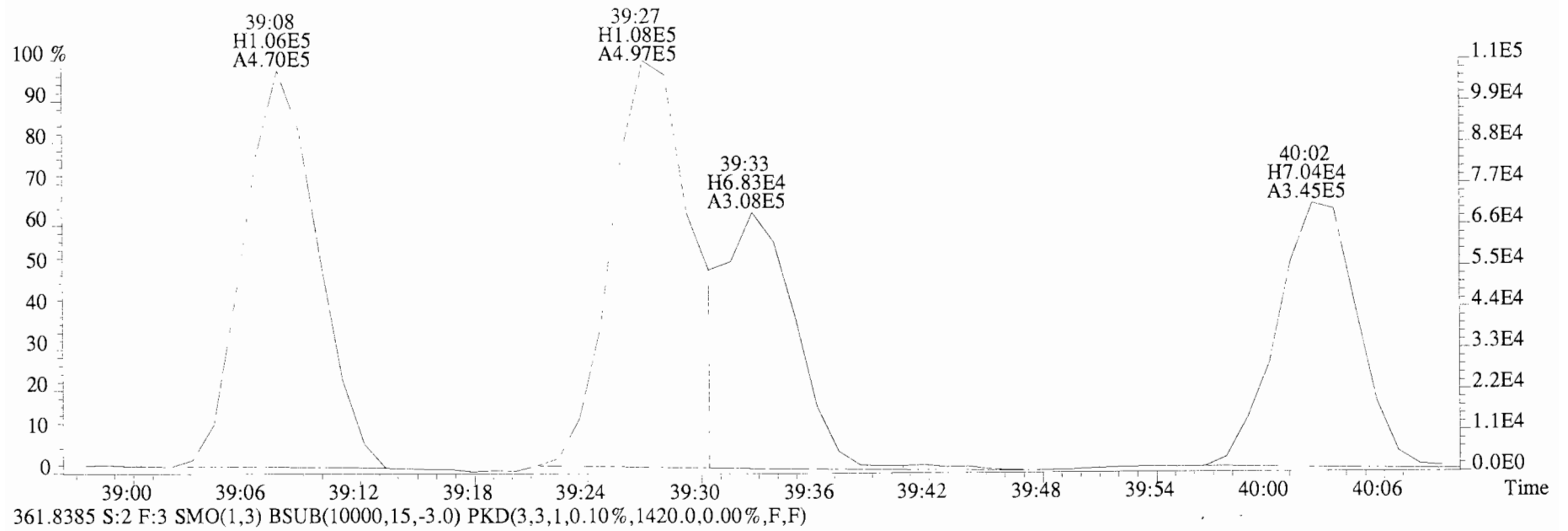
371.8817 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1624.0,0.00%,F,F)



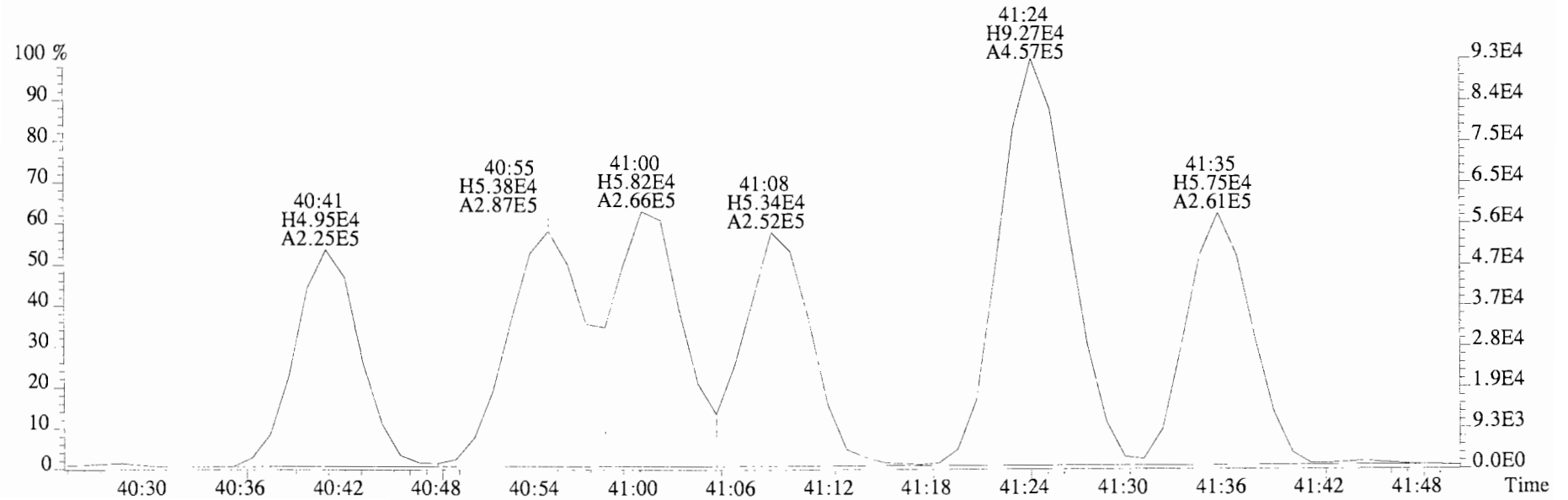
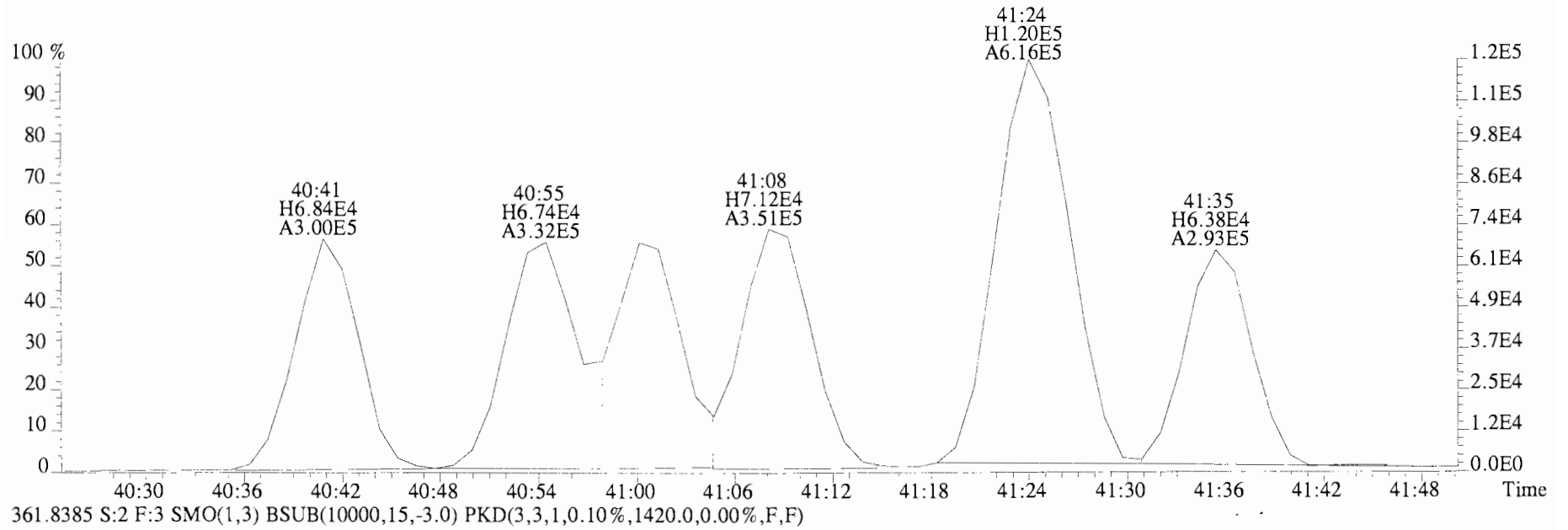
373.8788 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1808.0,0.00%,F,F)



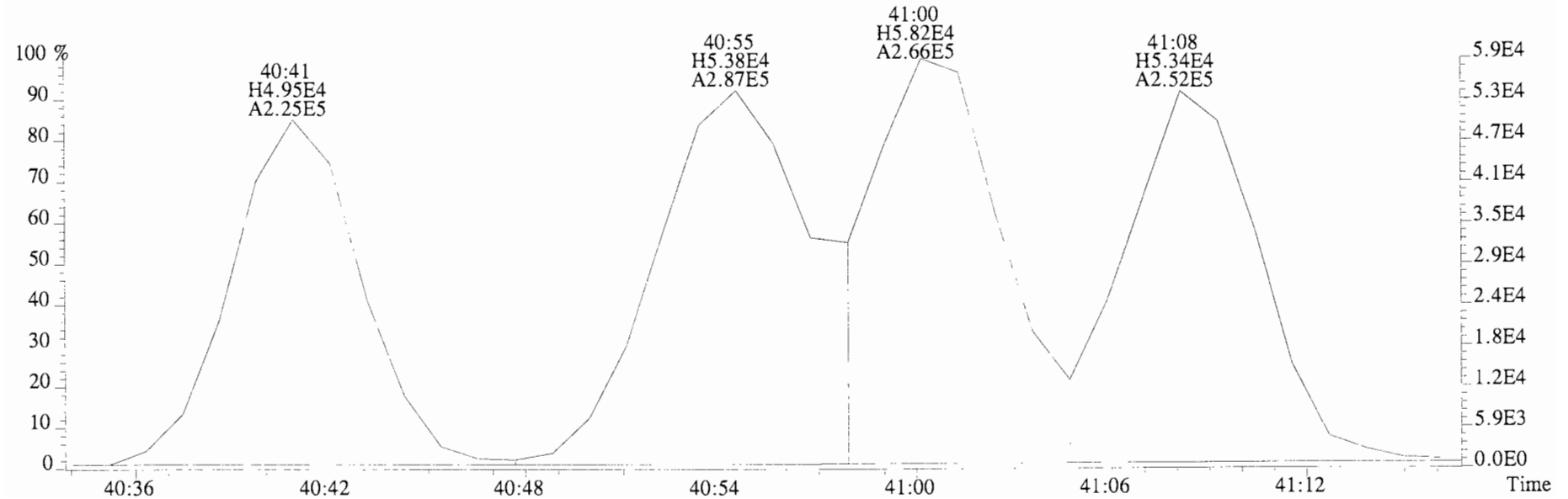
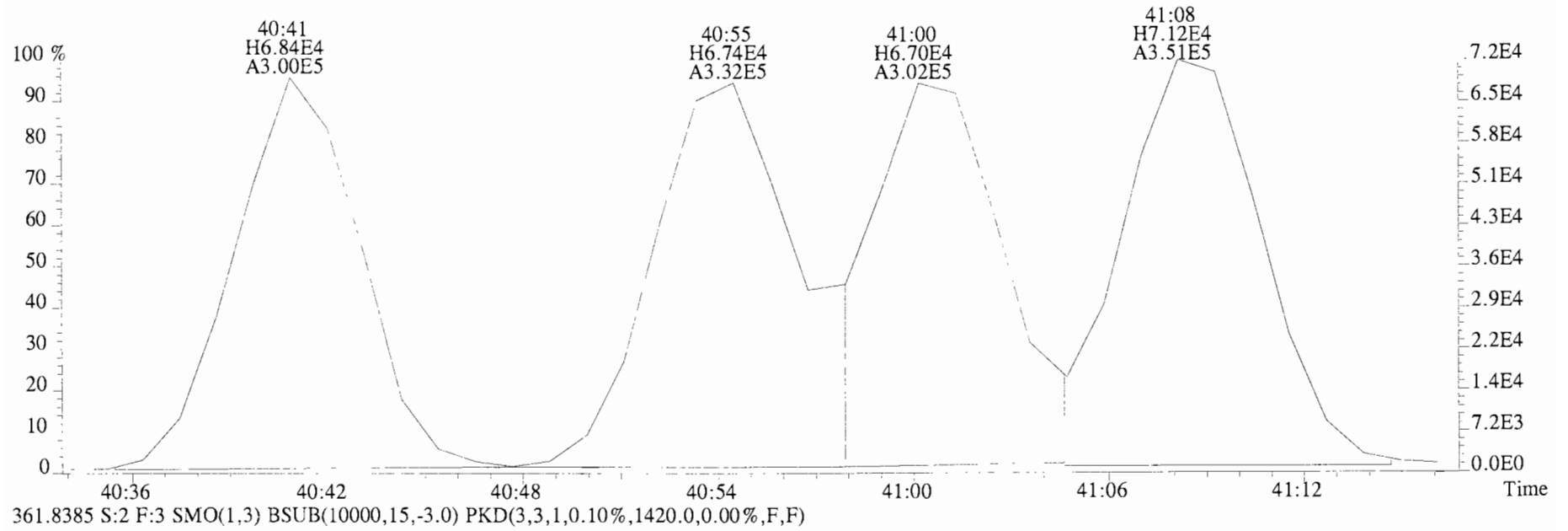
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



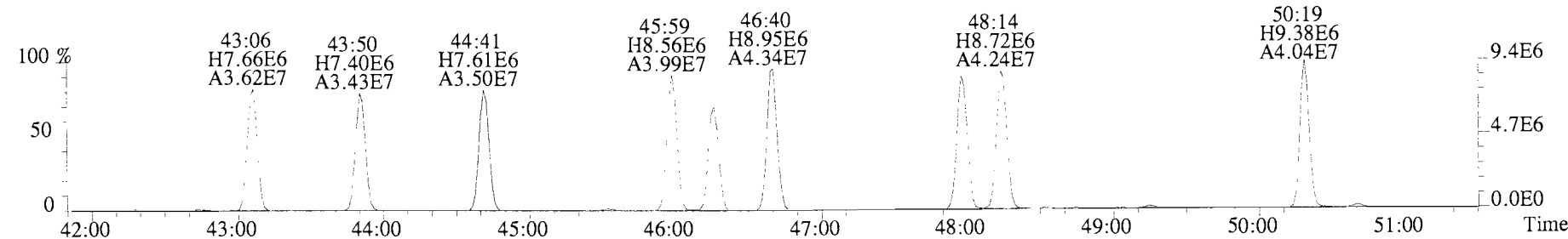
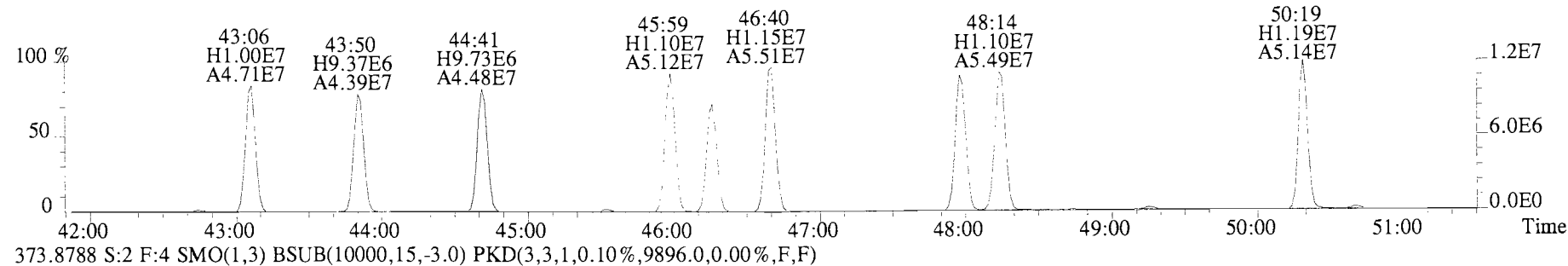
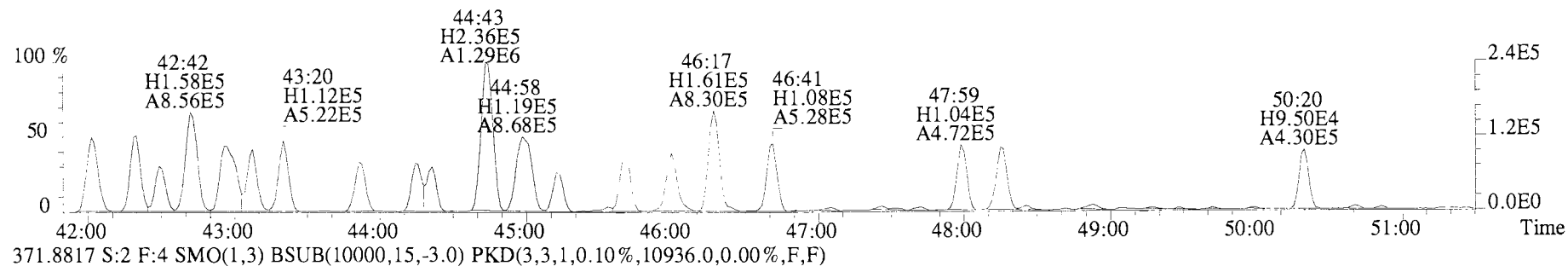
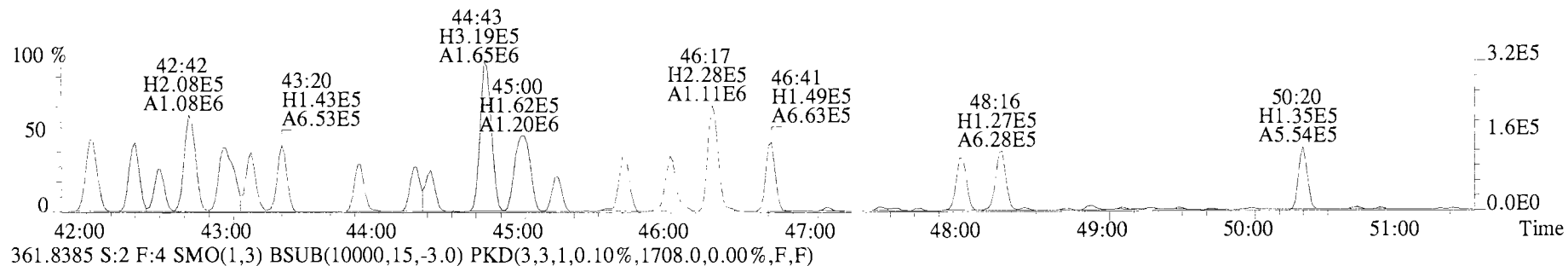
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



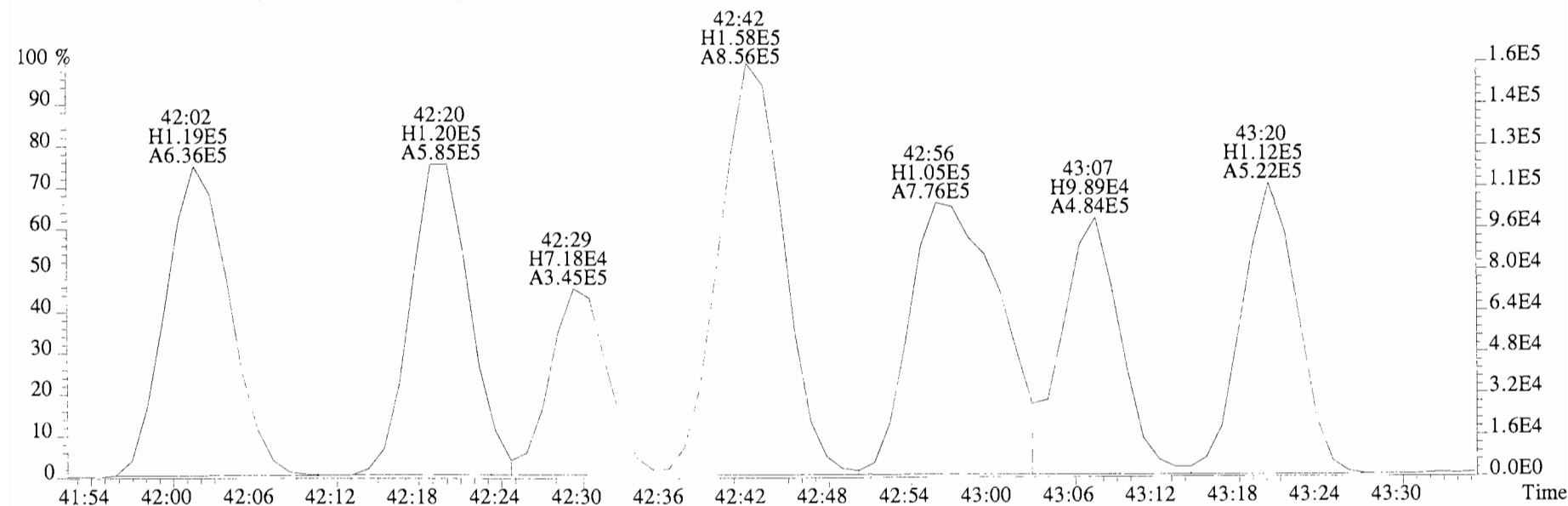
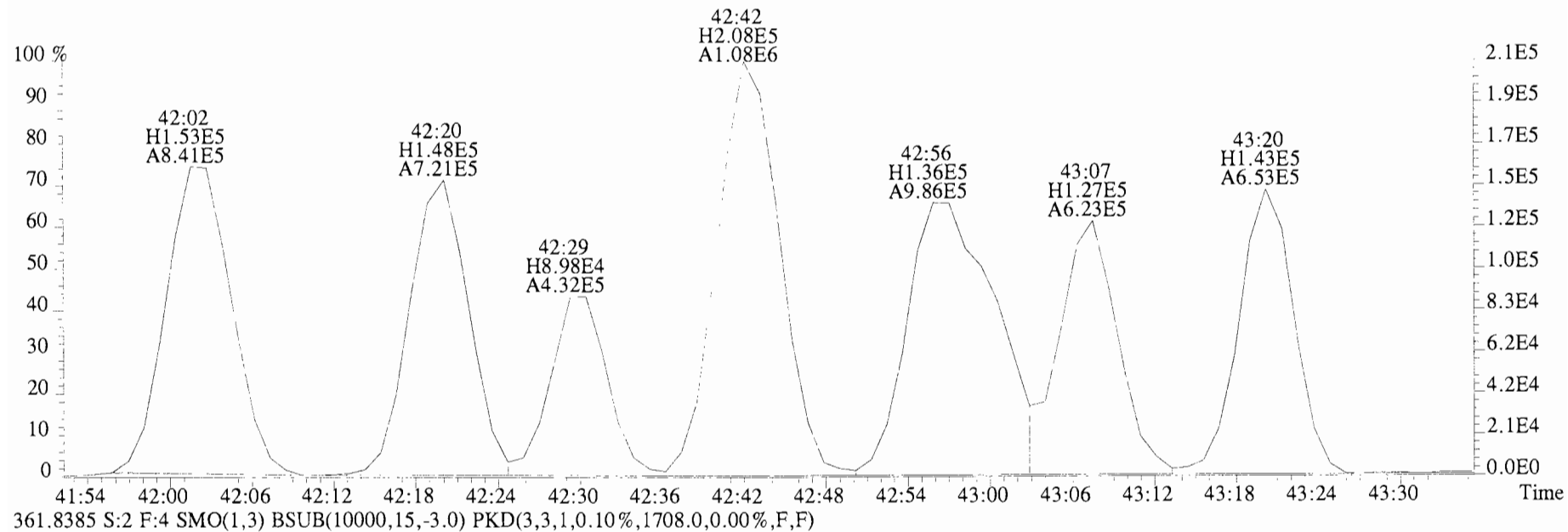
File:140623E2 #1-760 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSub(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



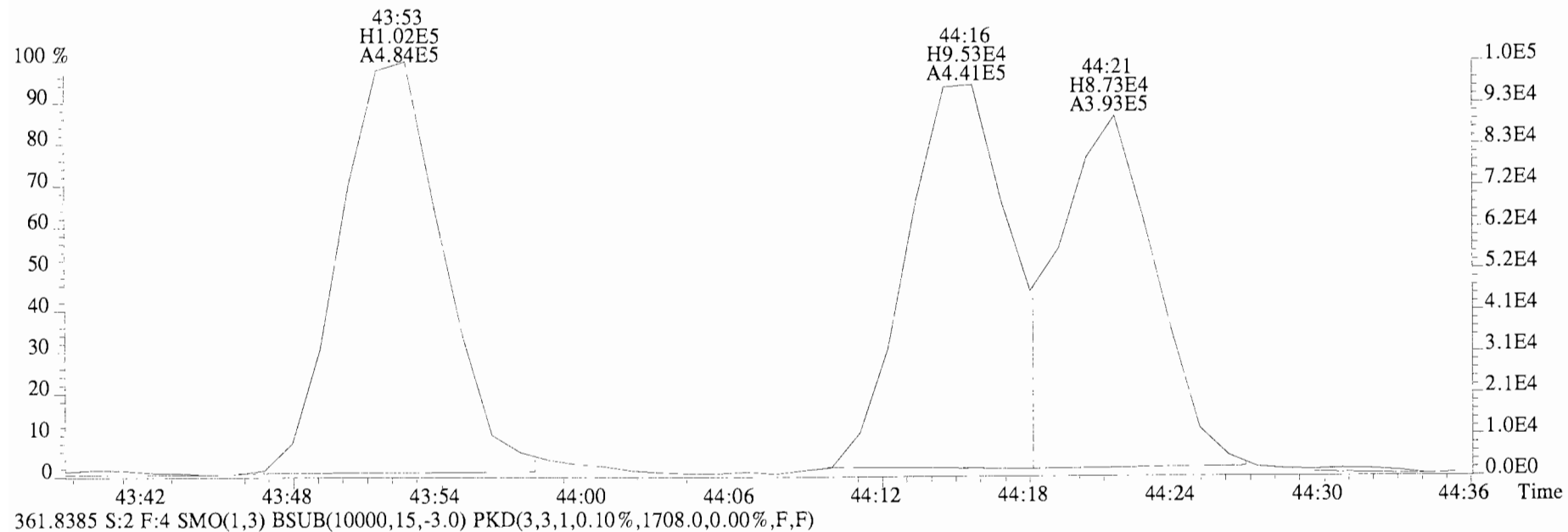
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



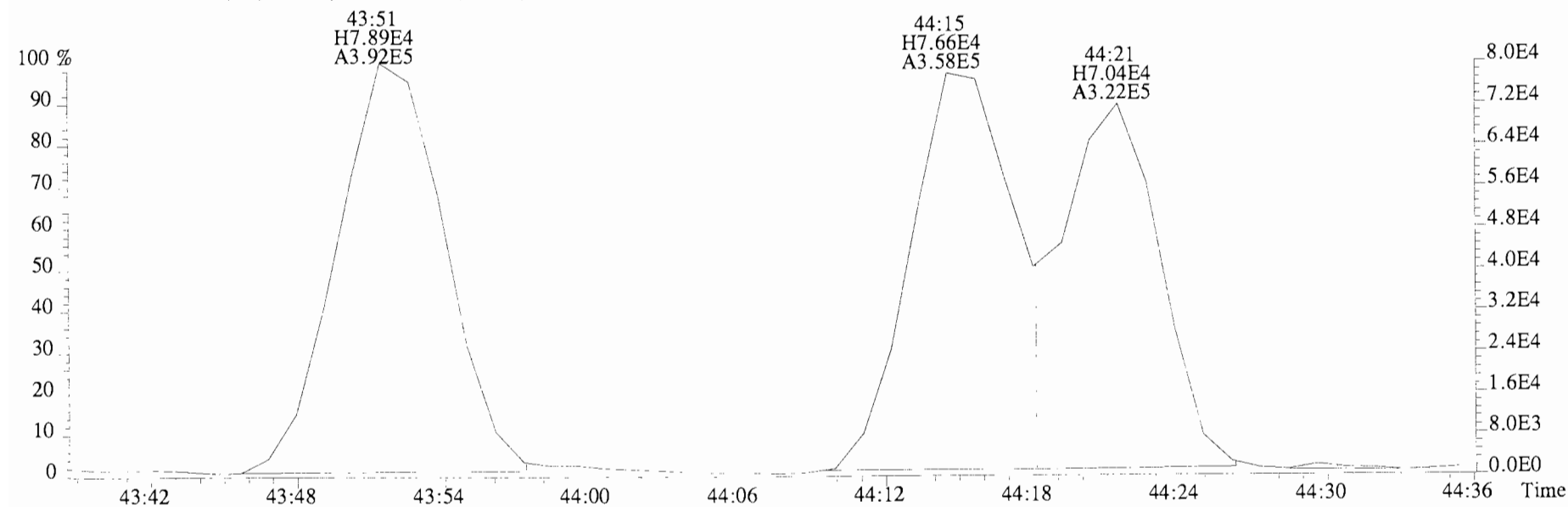
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



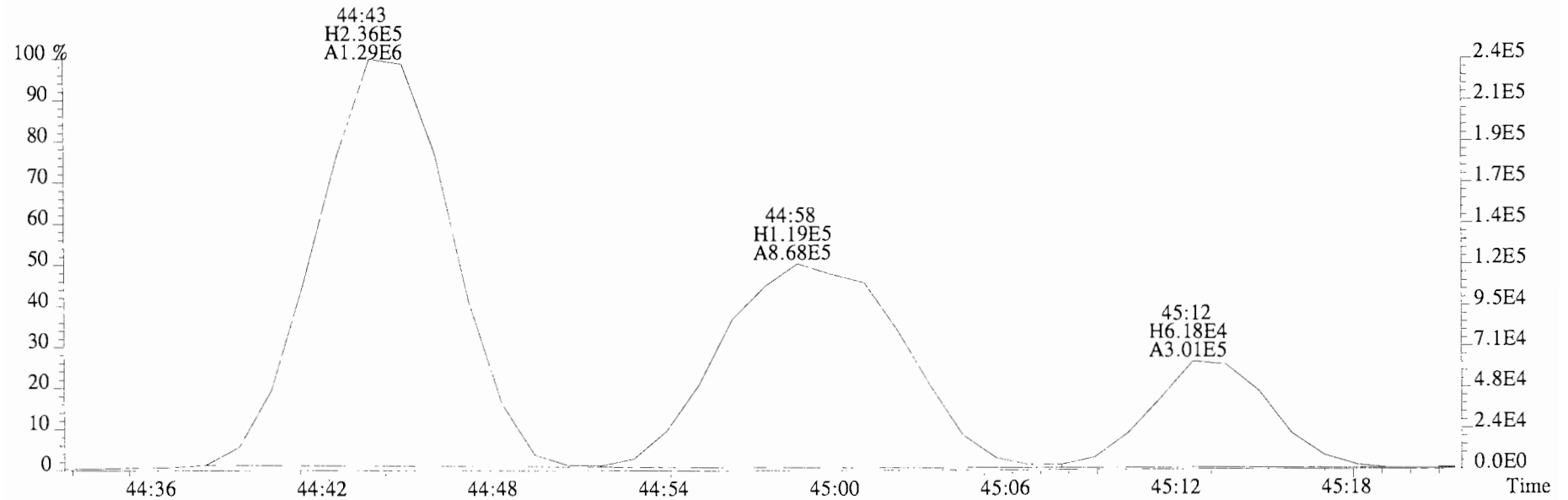
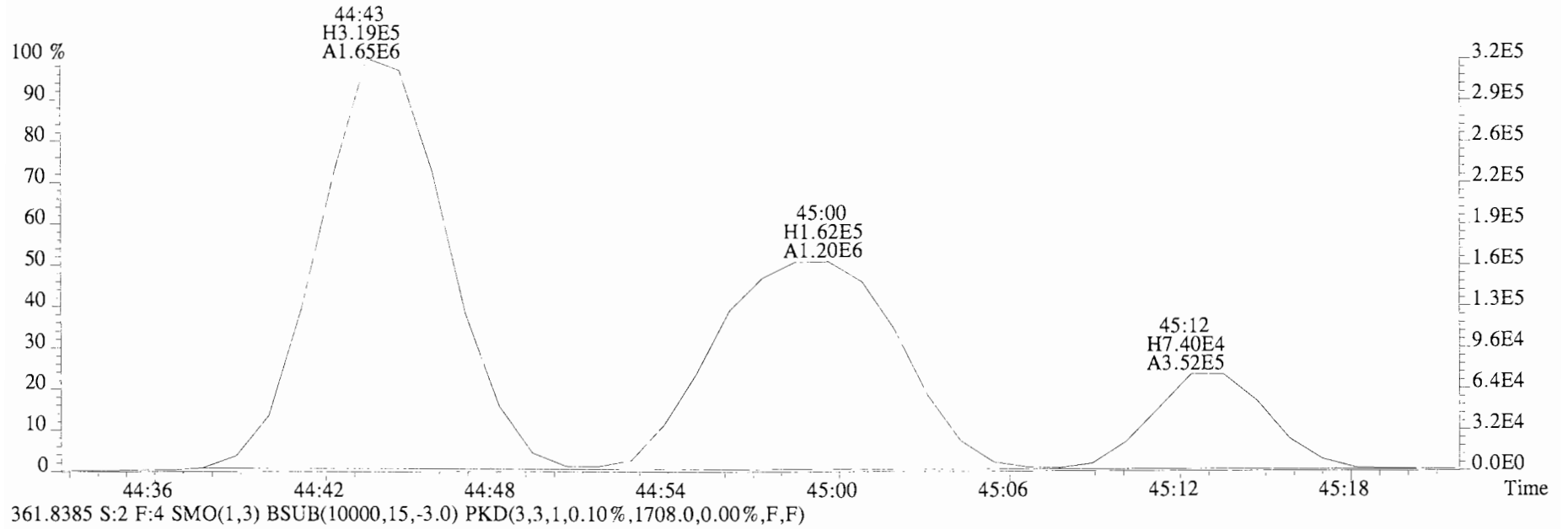
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1708.0,0.00%,F,F)

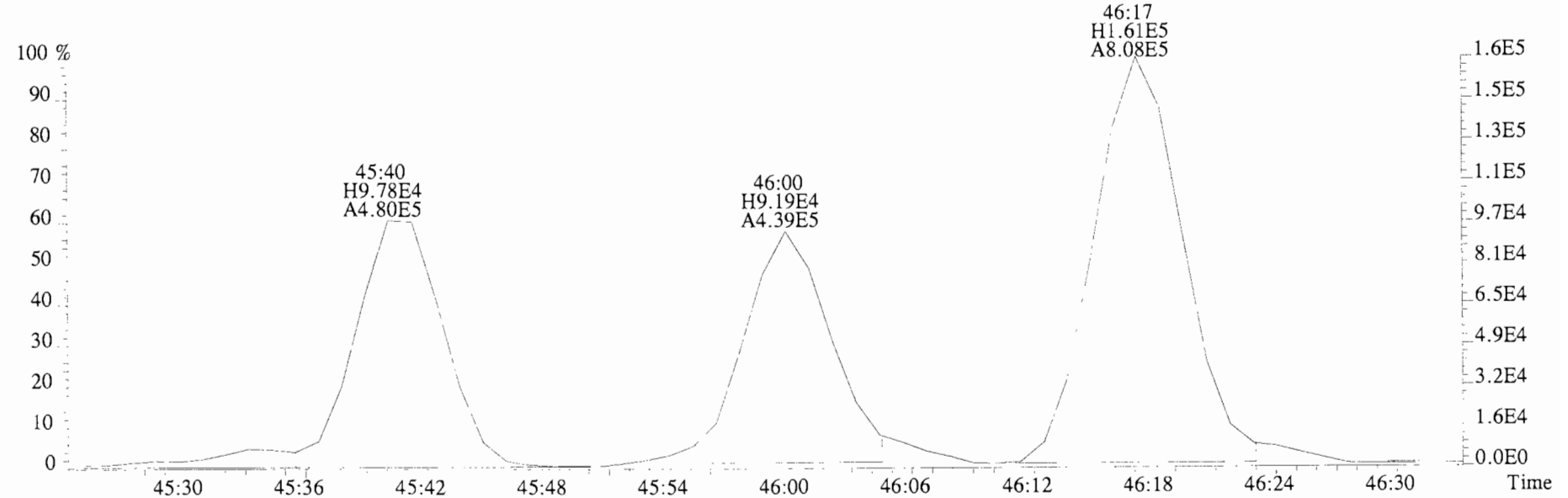
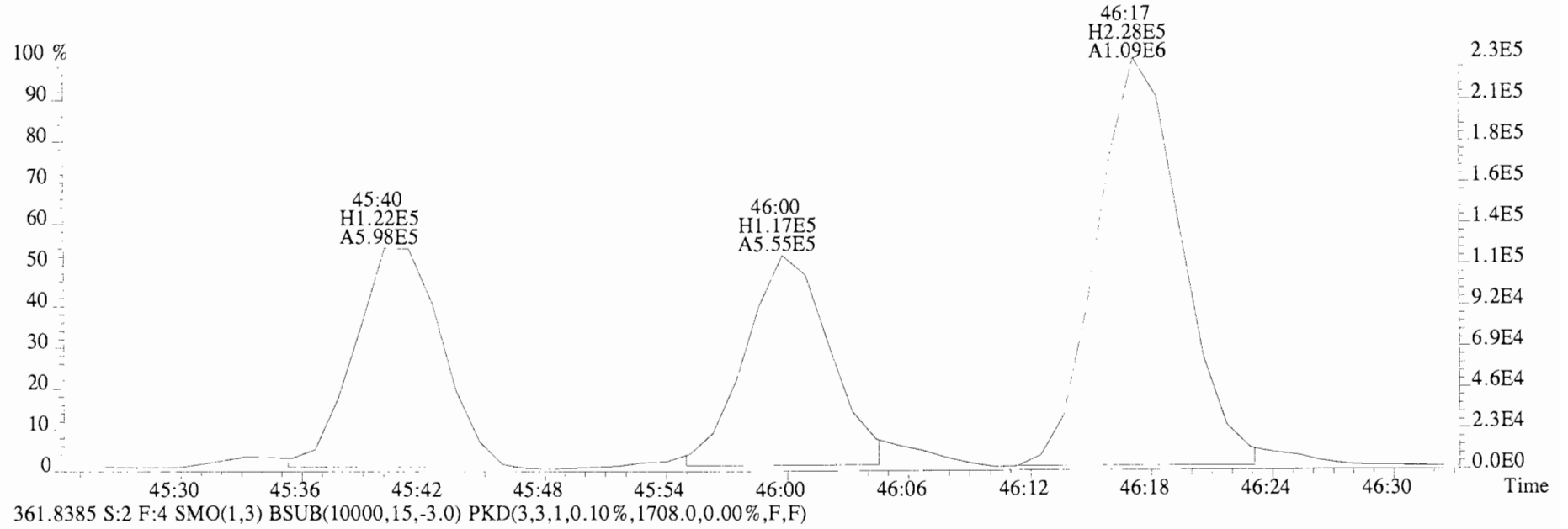


File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)

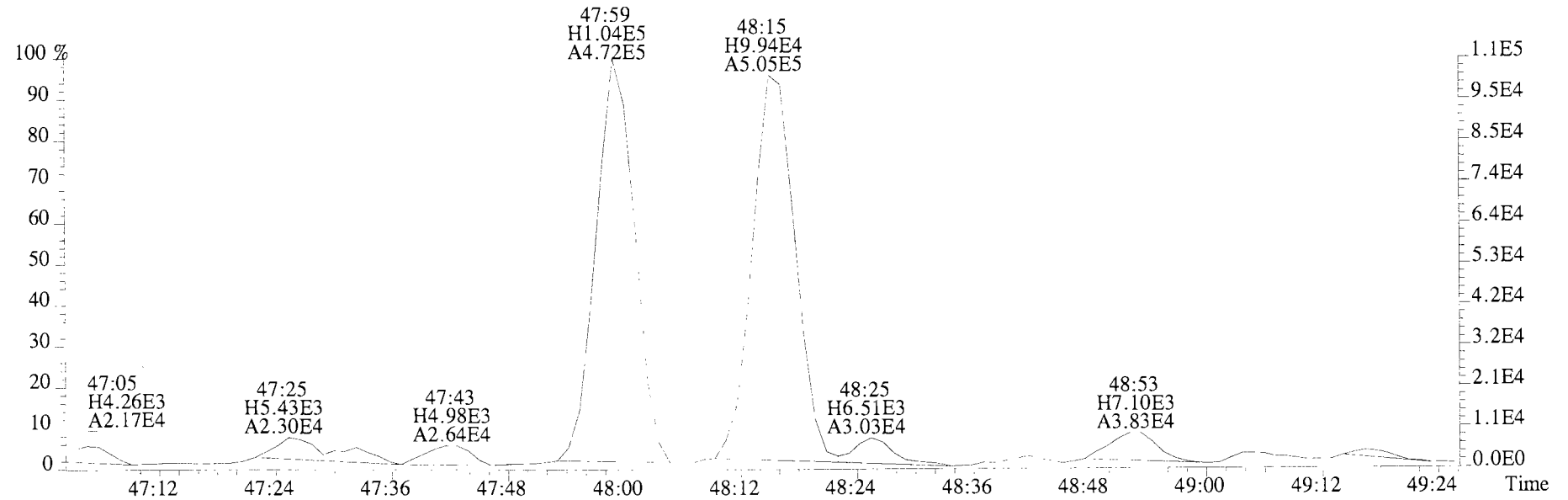
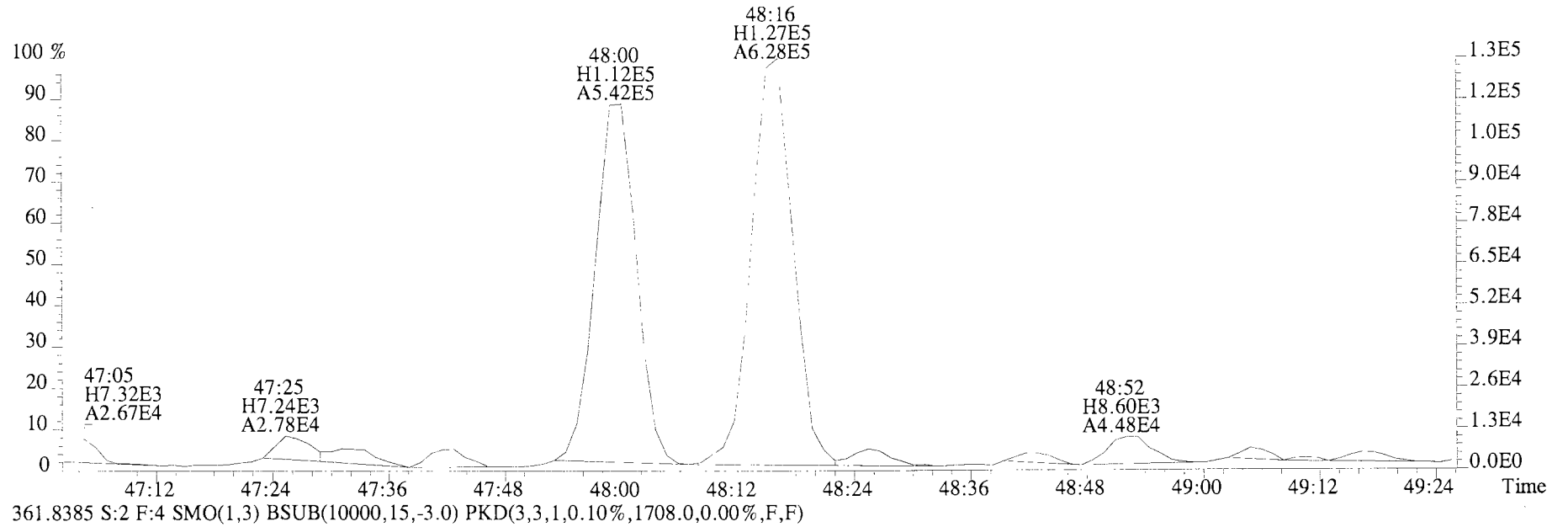




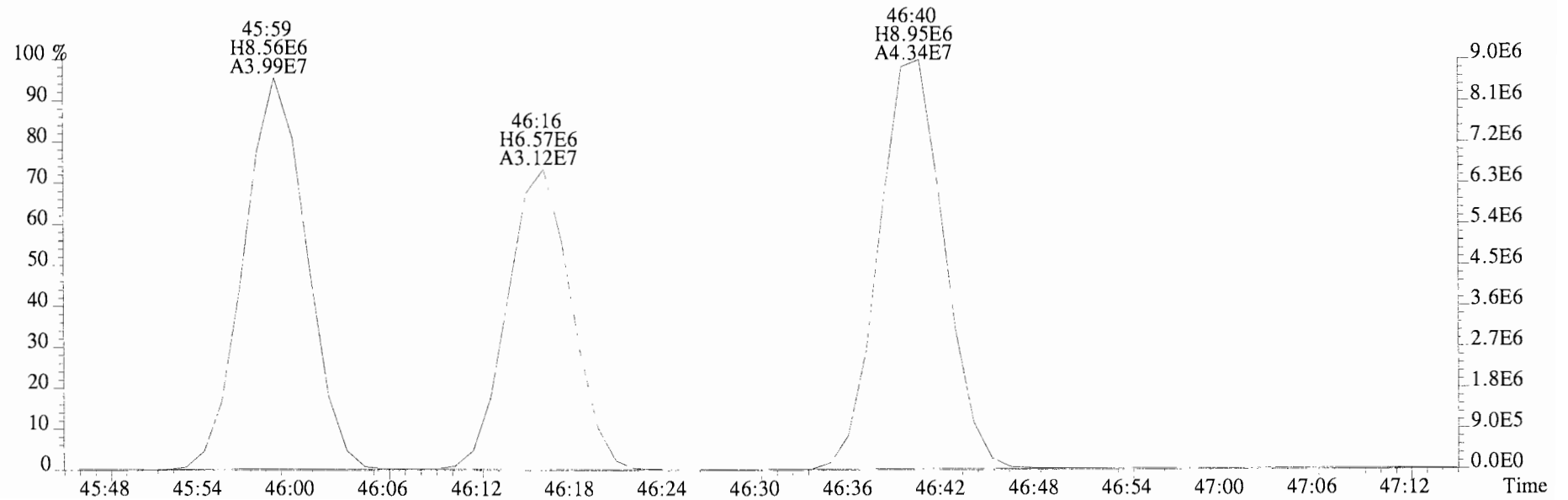
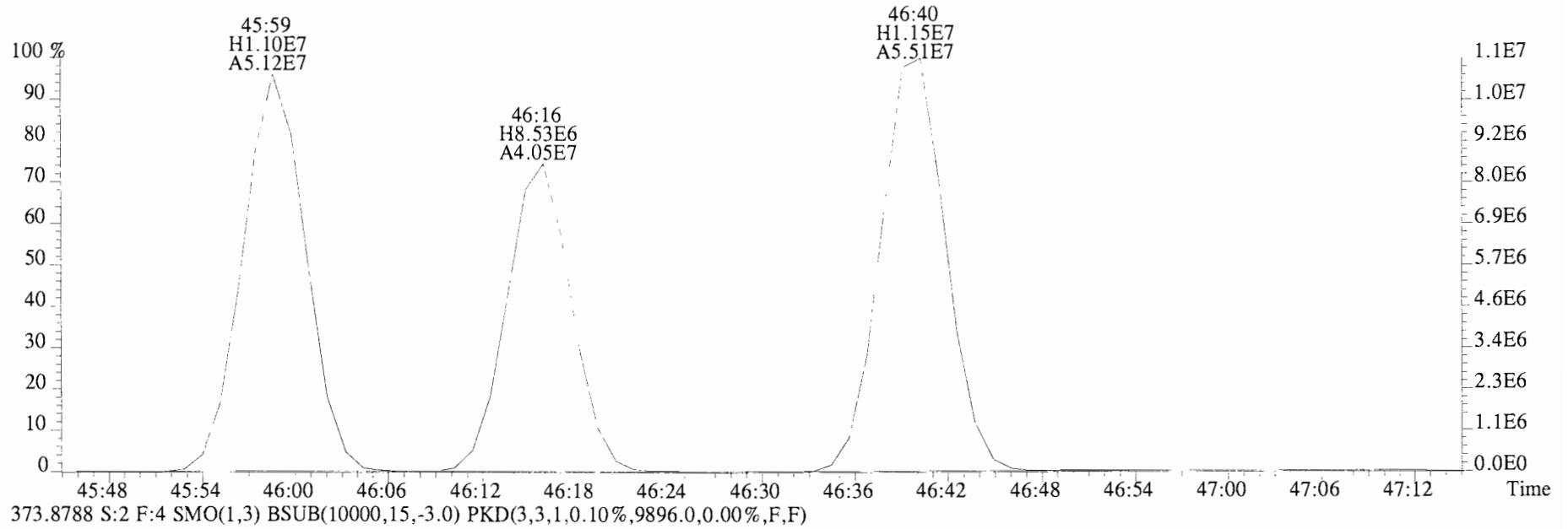
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



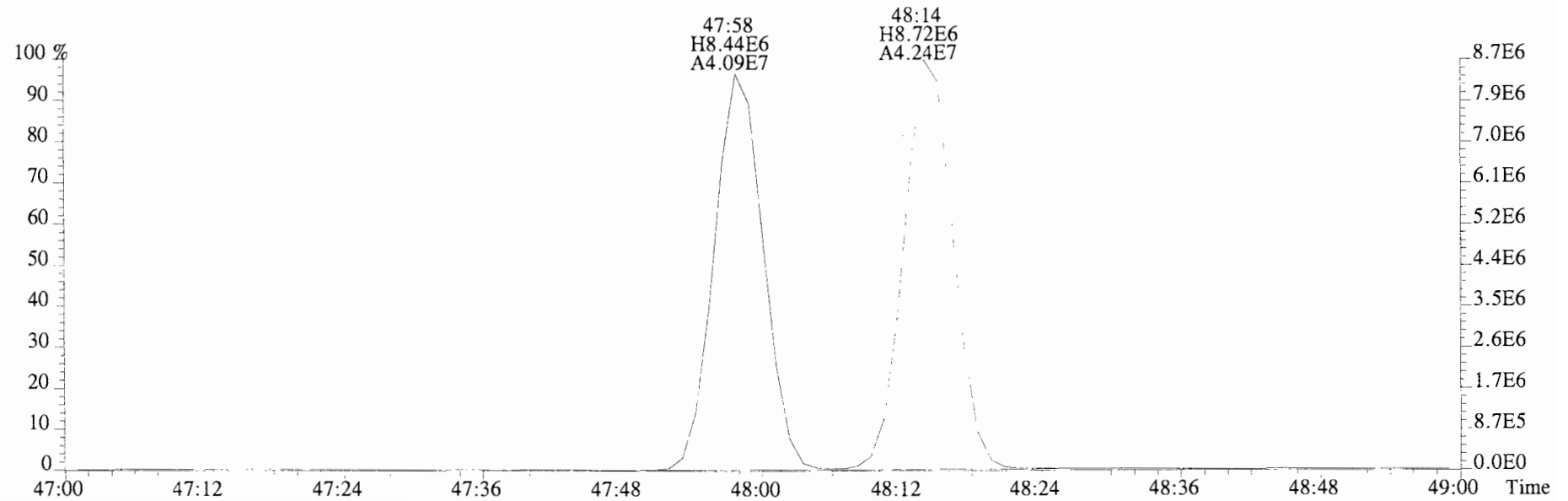
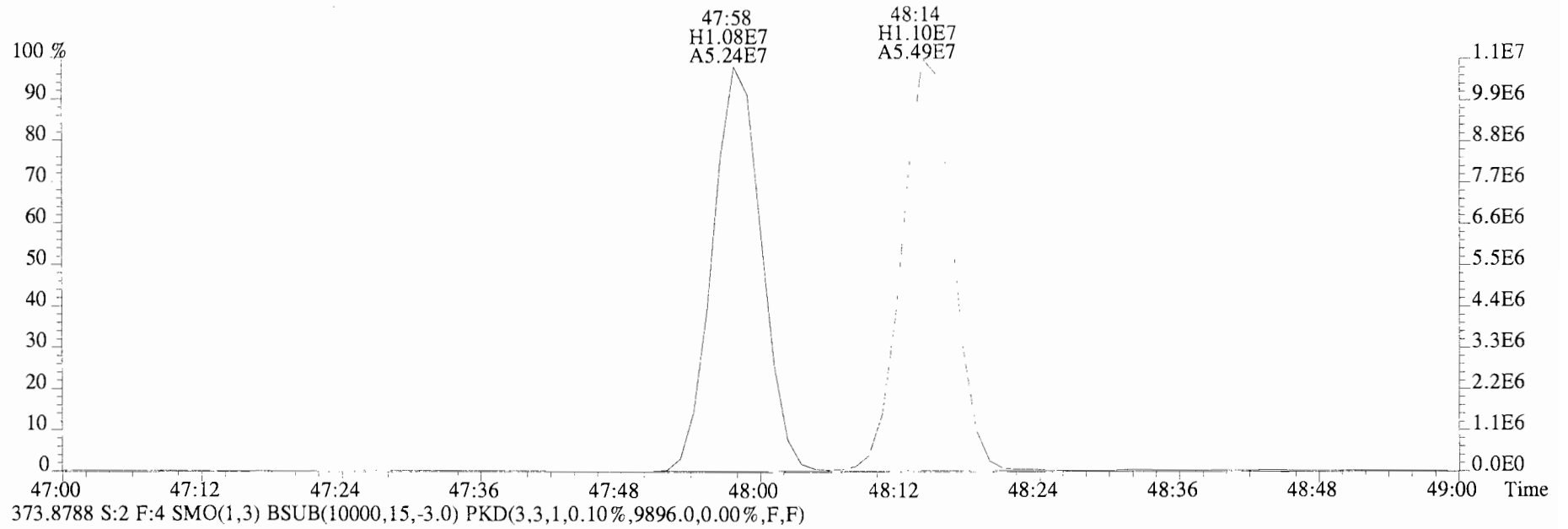
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
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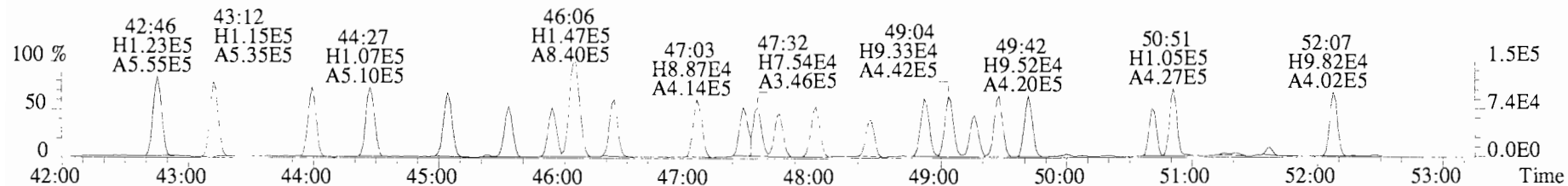
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10936.0,0.00%,F,F)



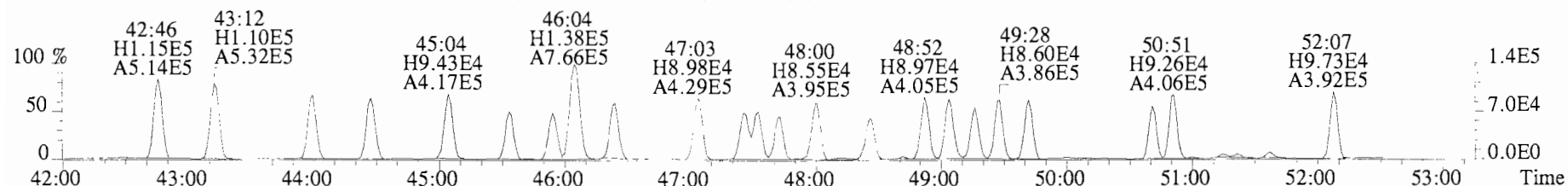
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10936.0,0.00%,F,F)



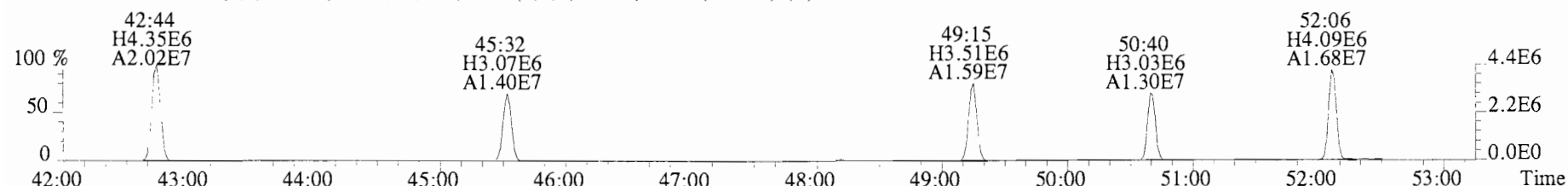
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



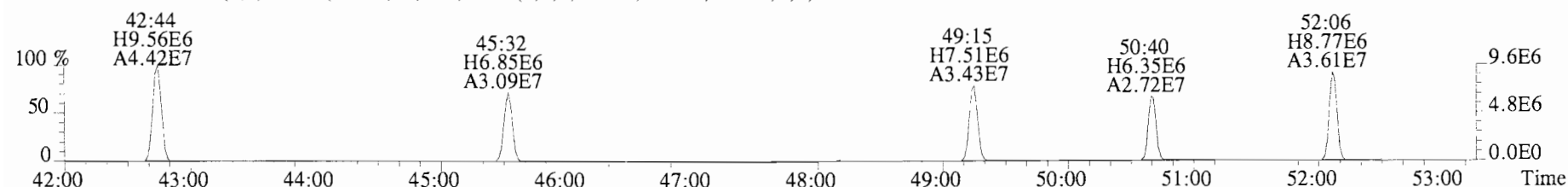
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1796.0,0.00%,F,F)



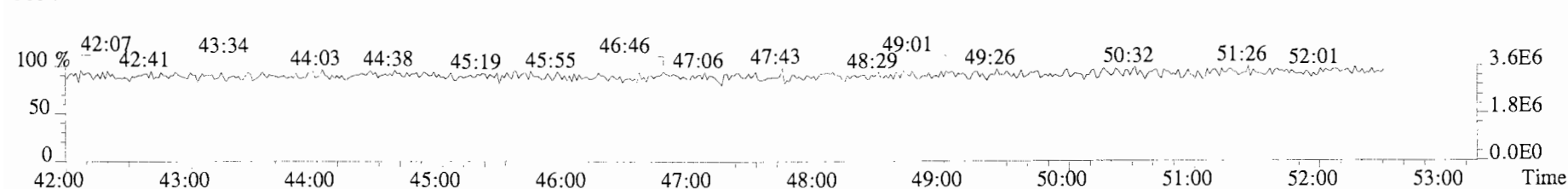
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



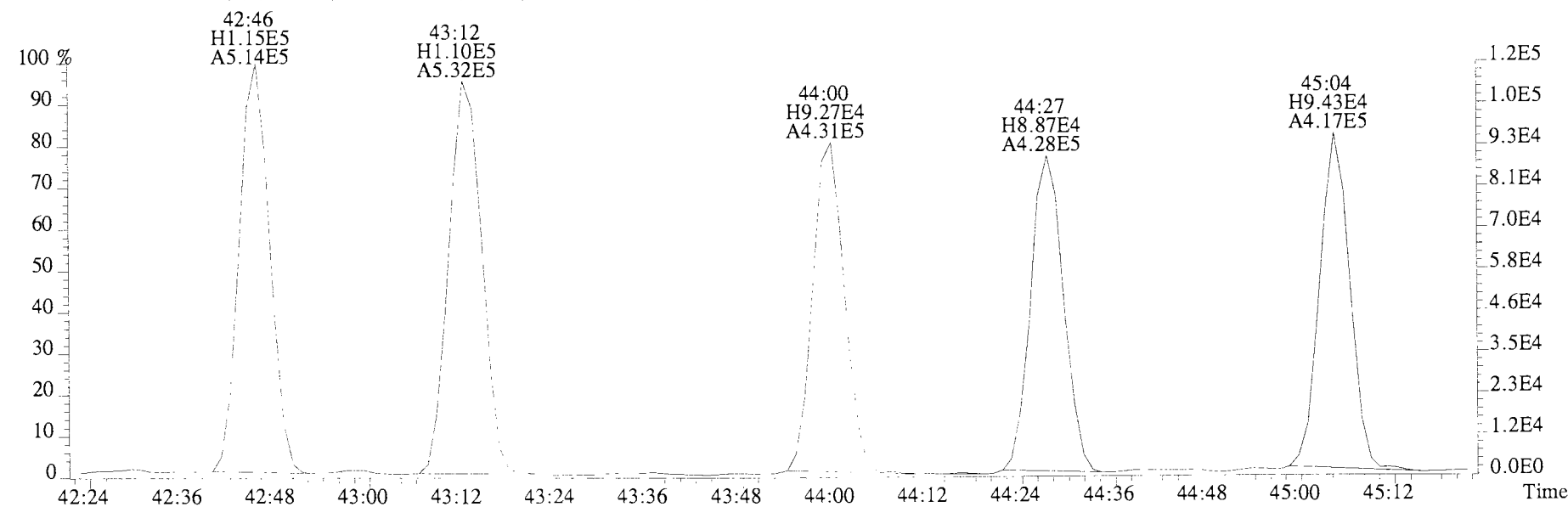
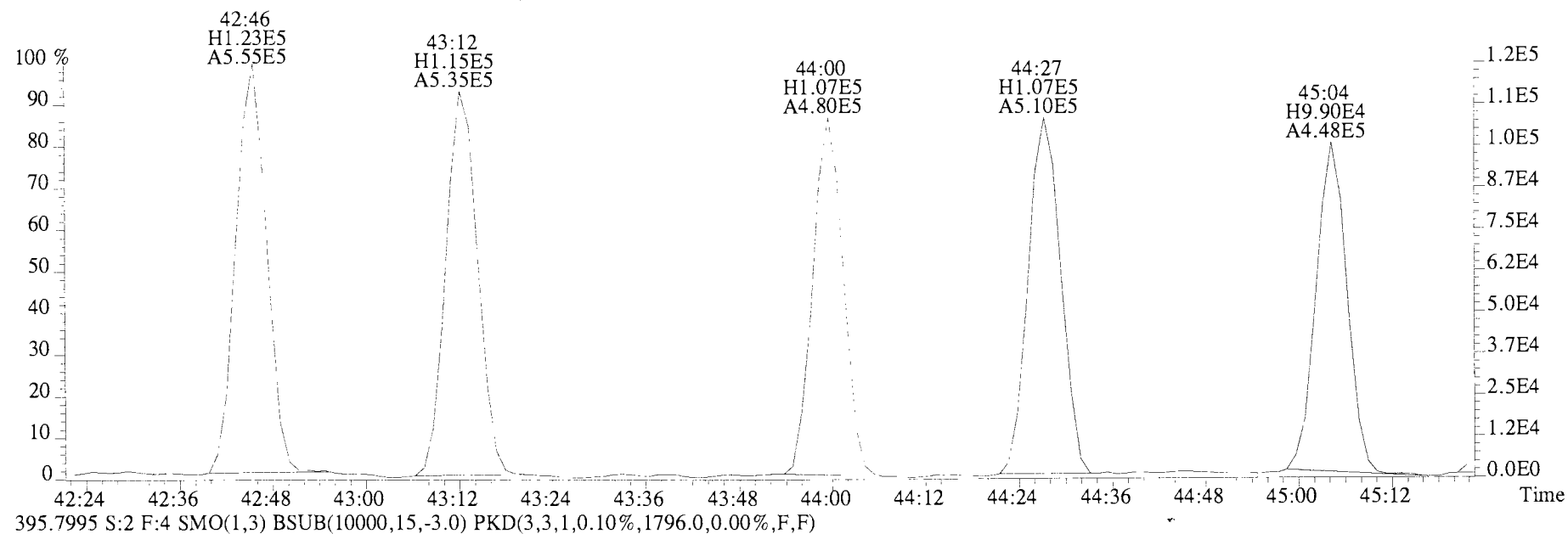
405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7580.0,0.00%,F,F)



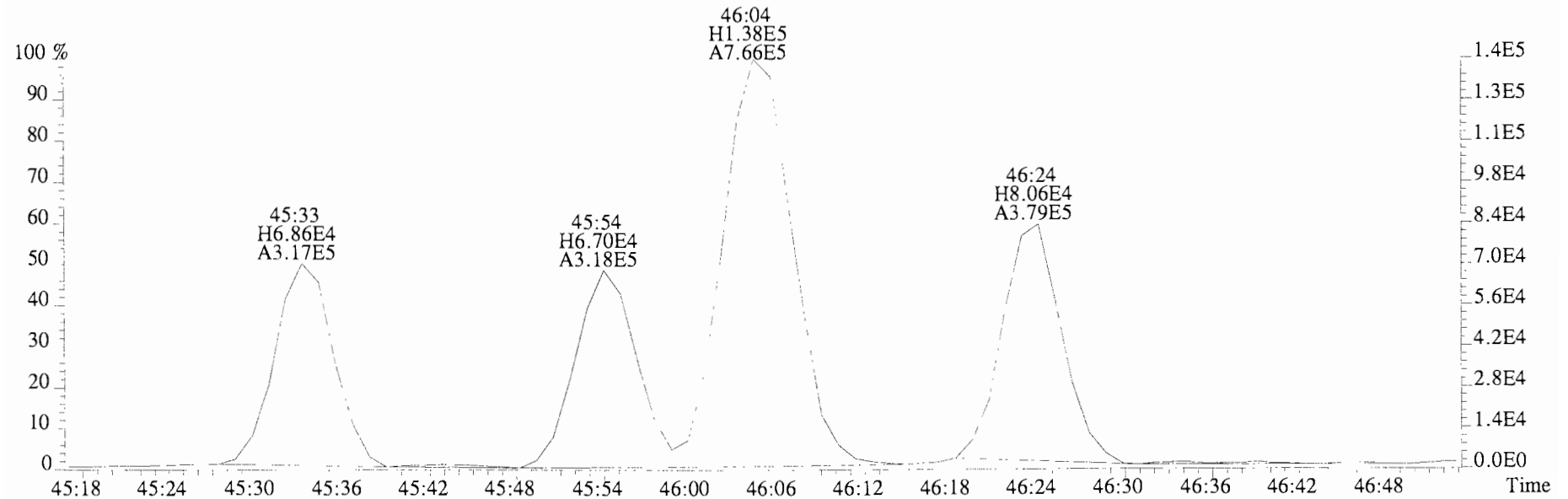
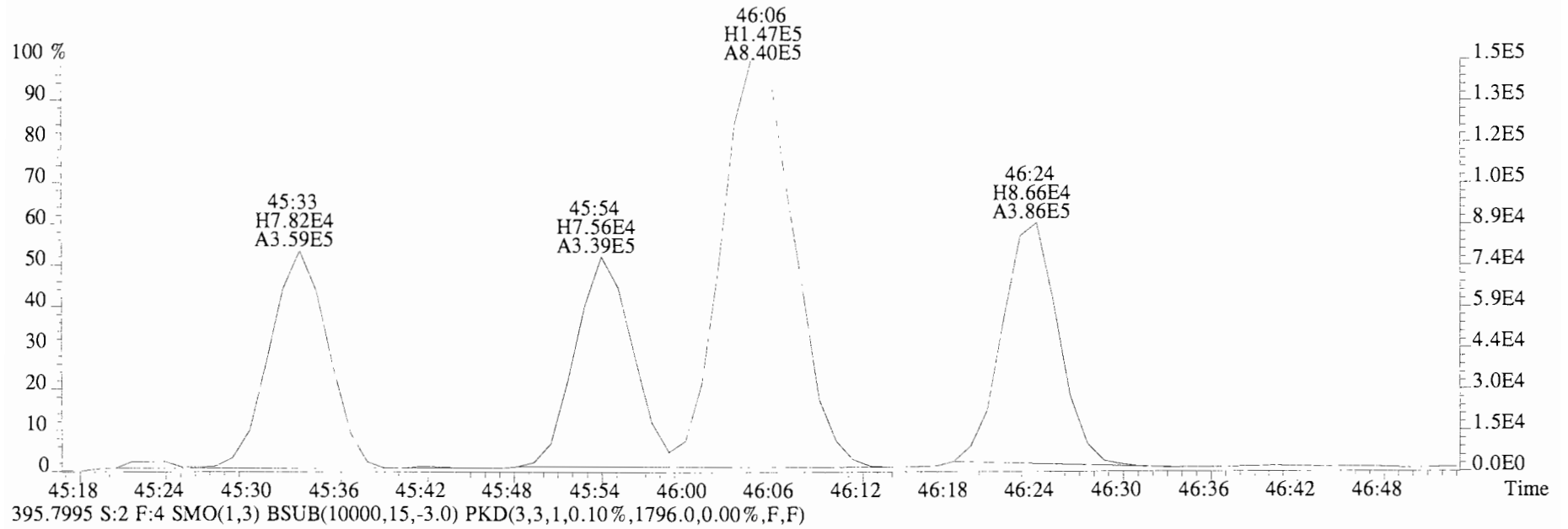
380.9760 S:2 F:4



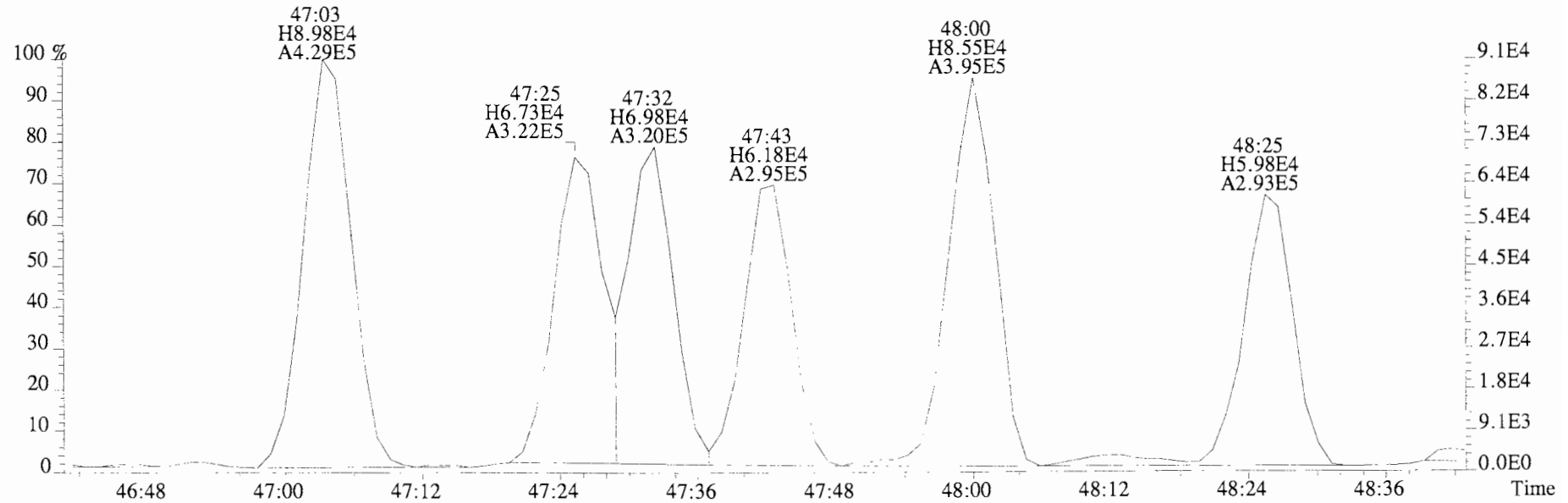
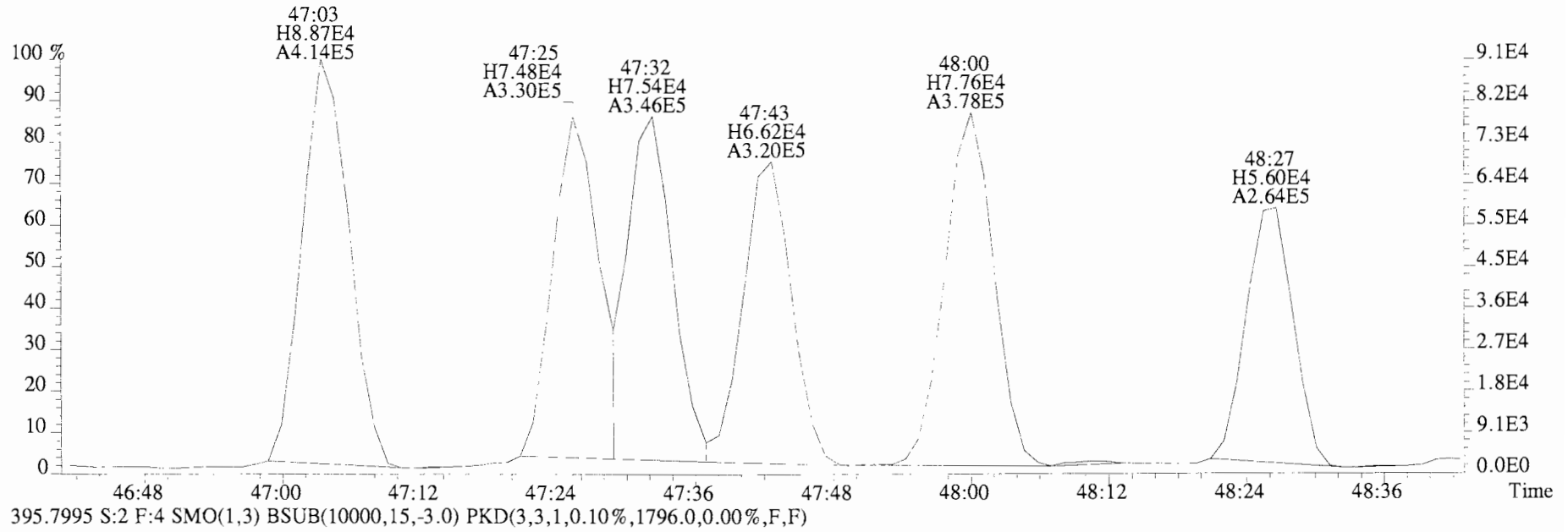
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)

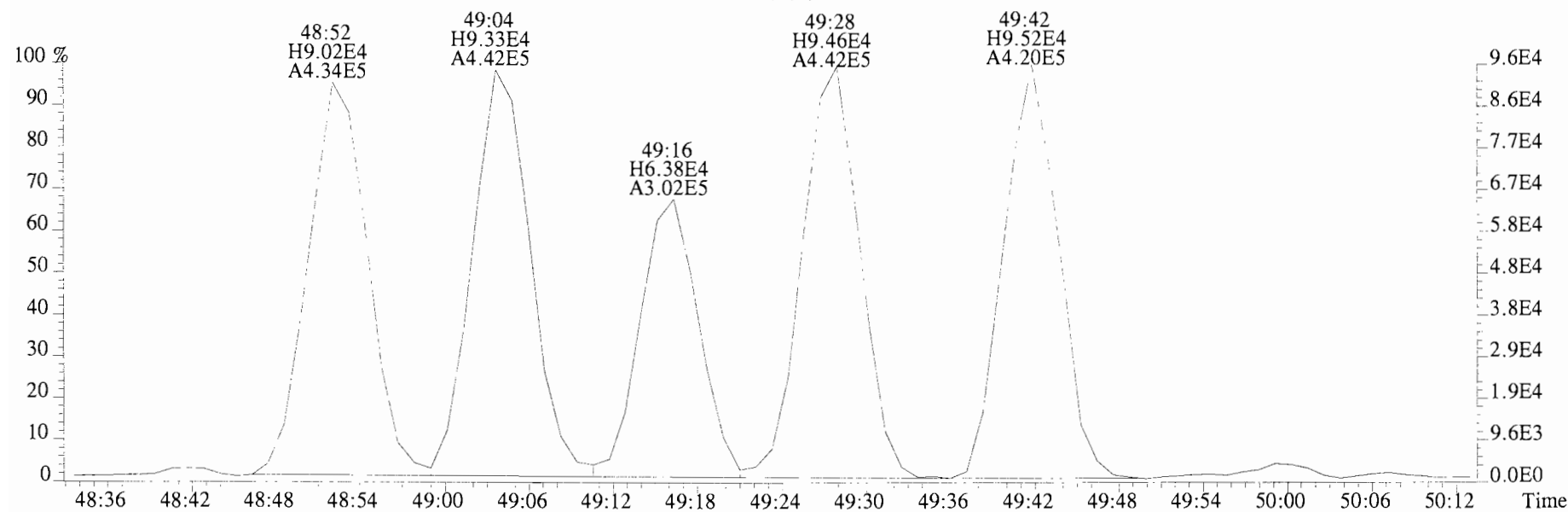


File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
 393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)

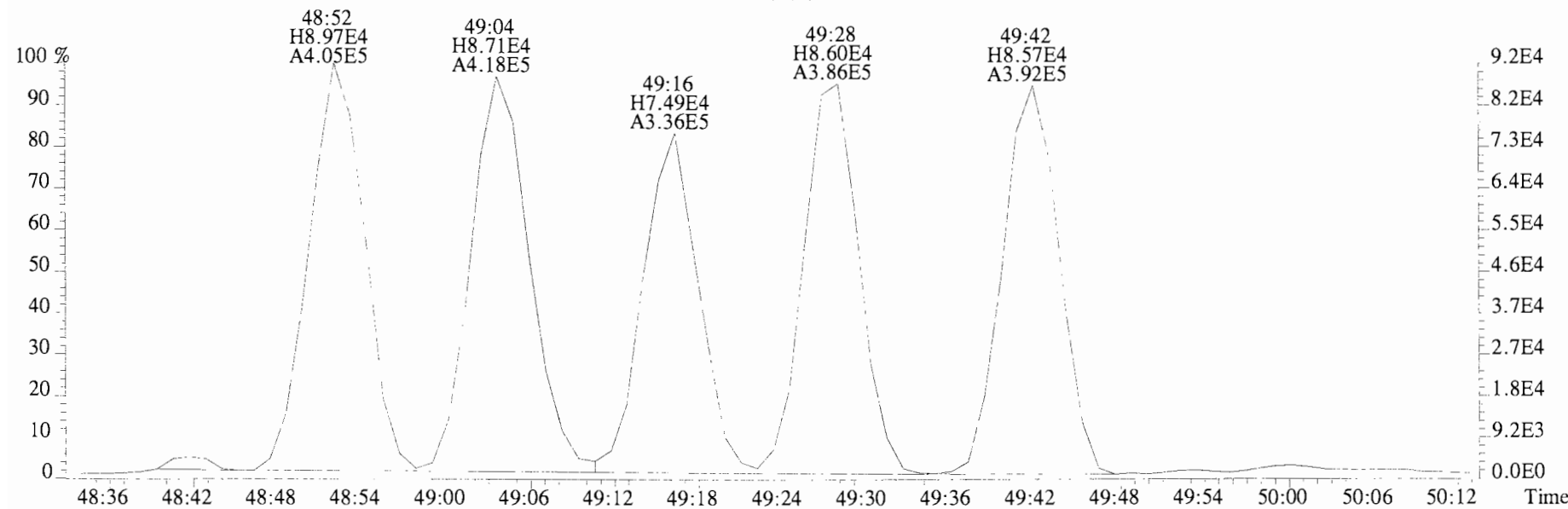




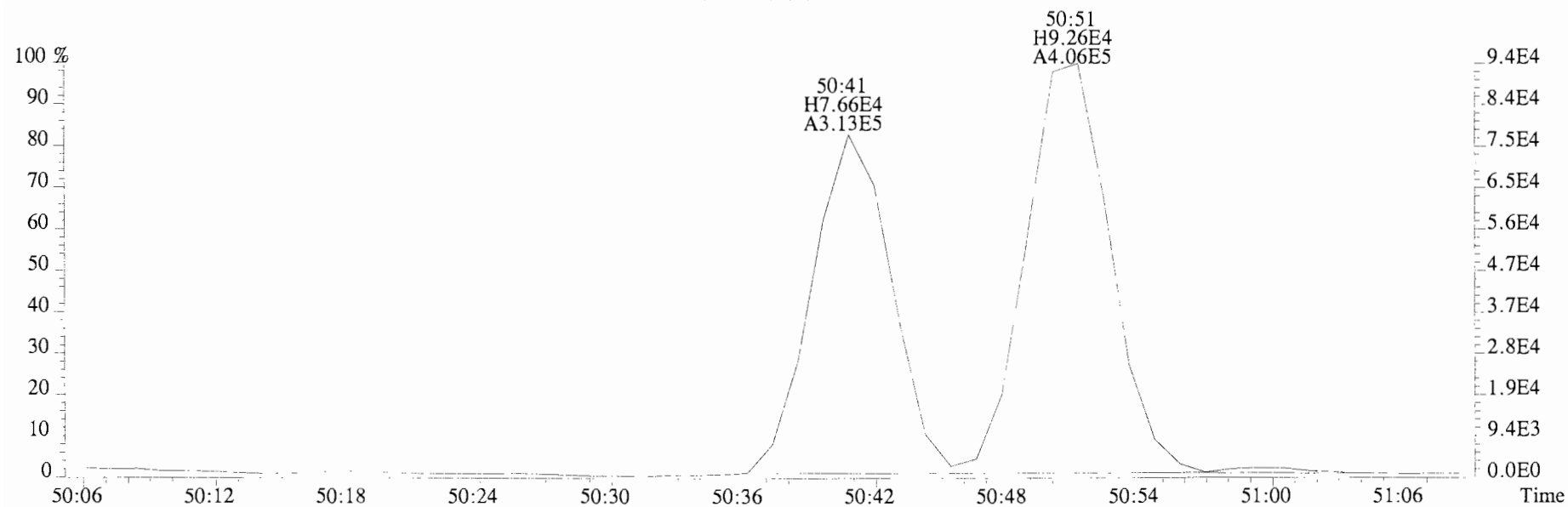
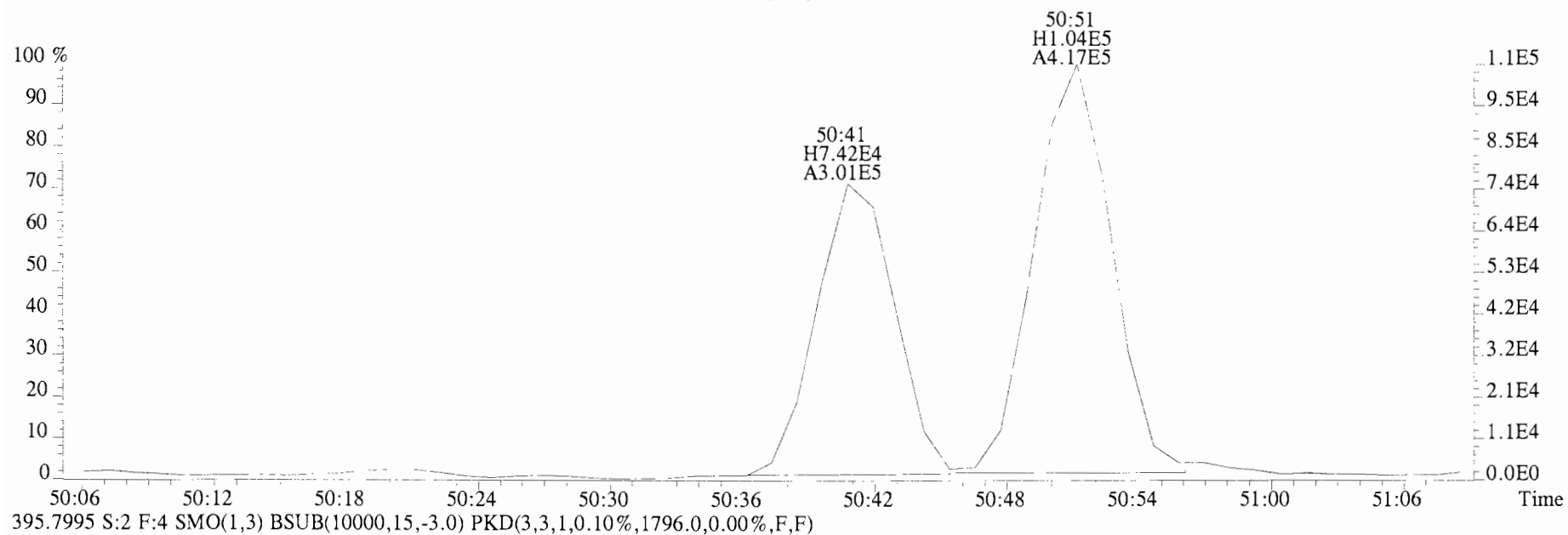
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



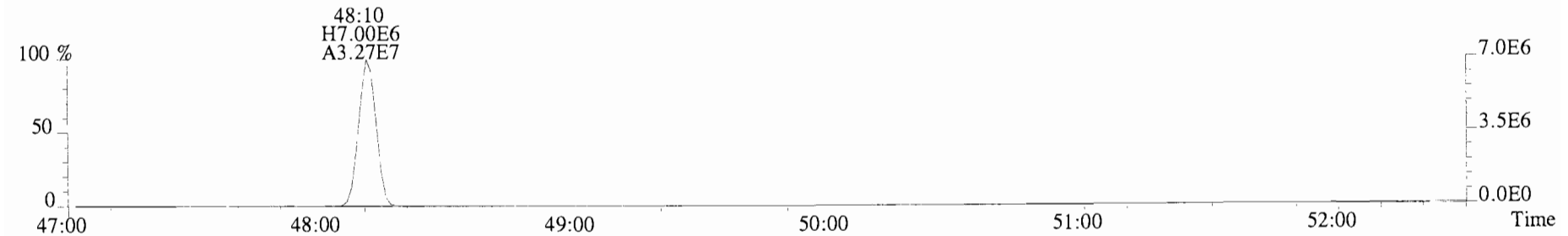
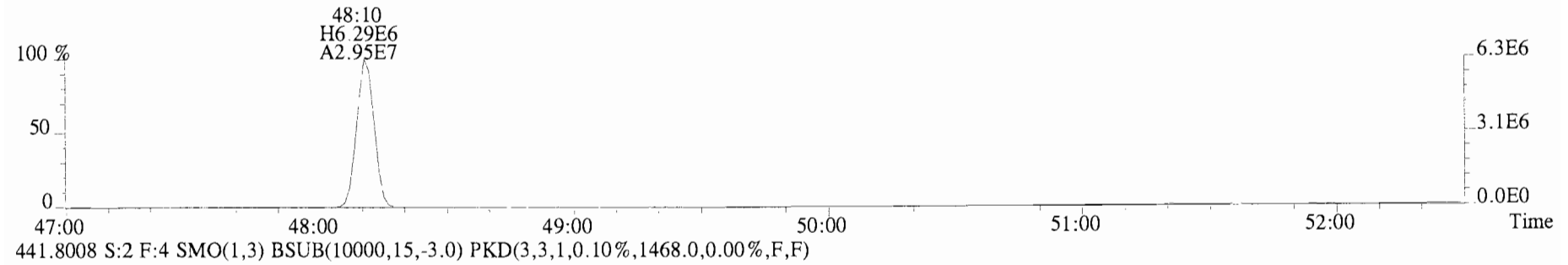
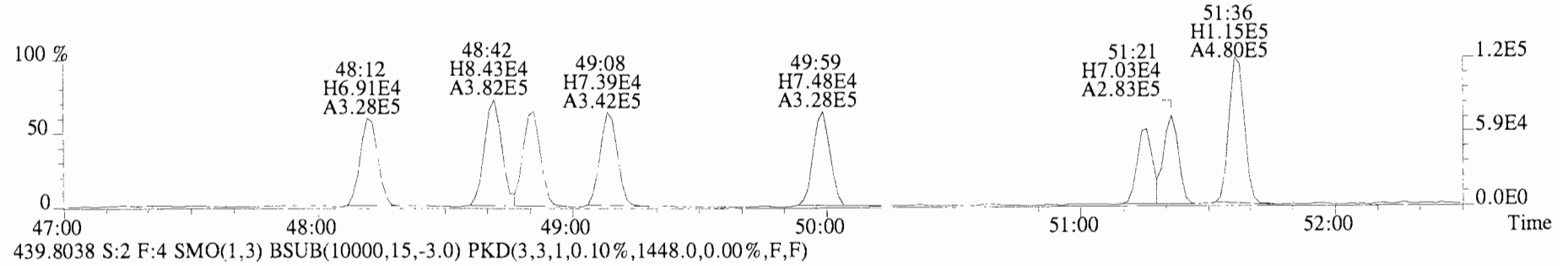
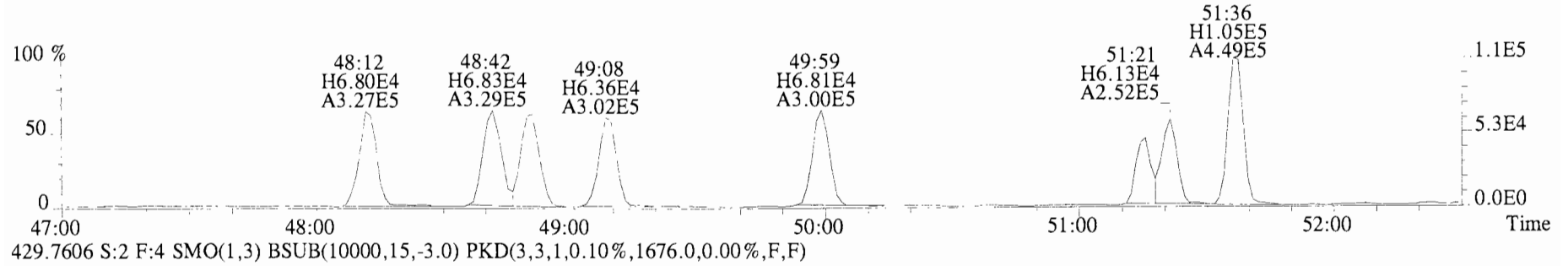
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1796.0,0.00%,F,F)



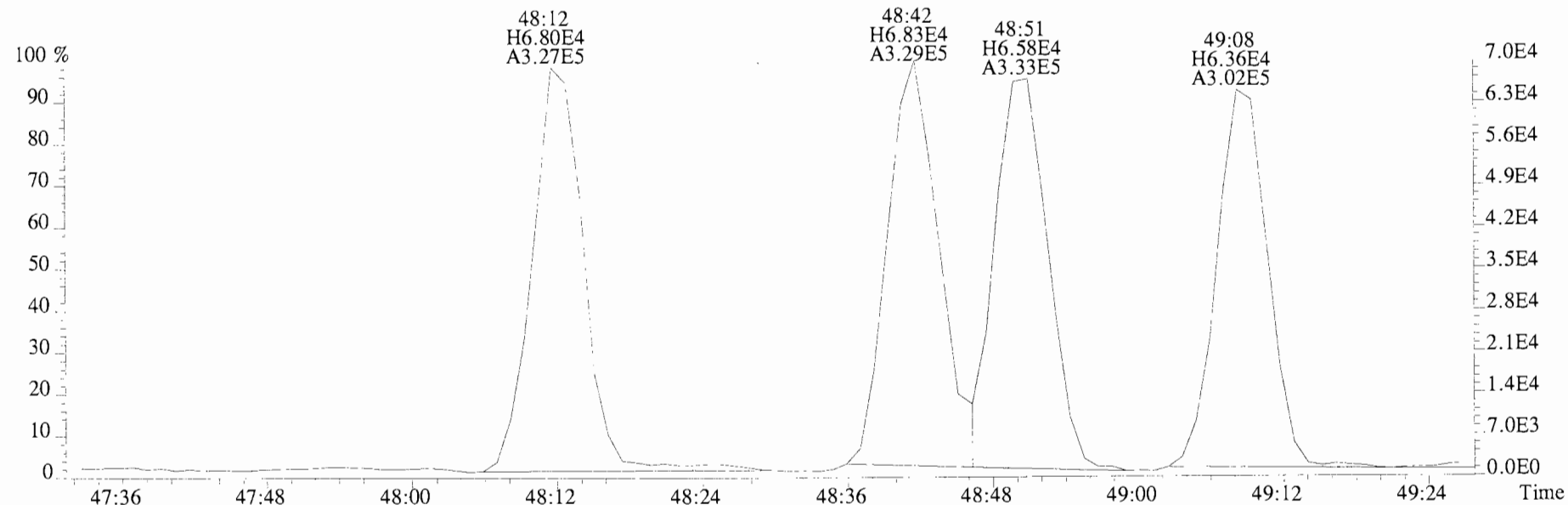
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



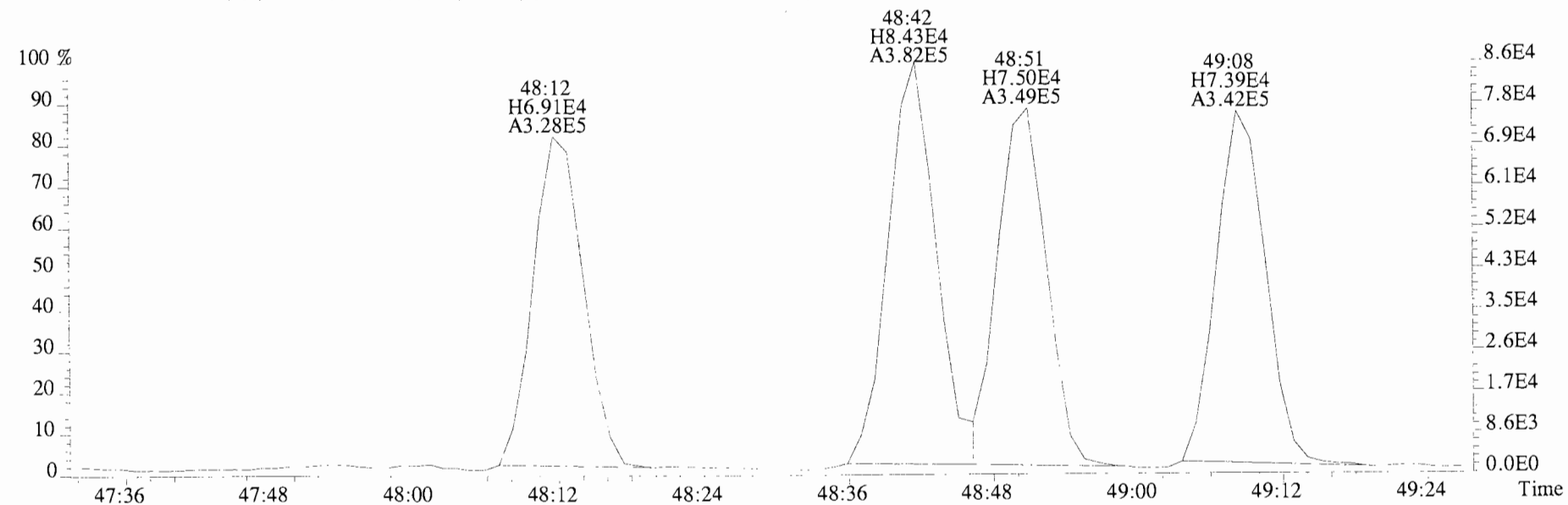
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



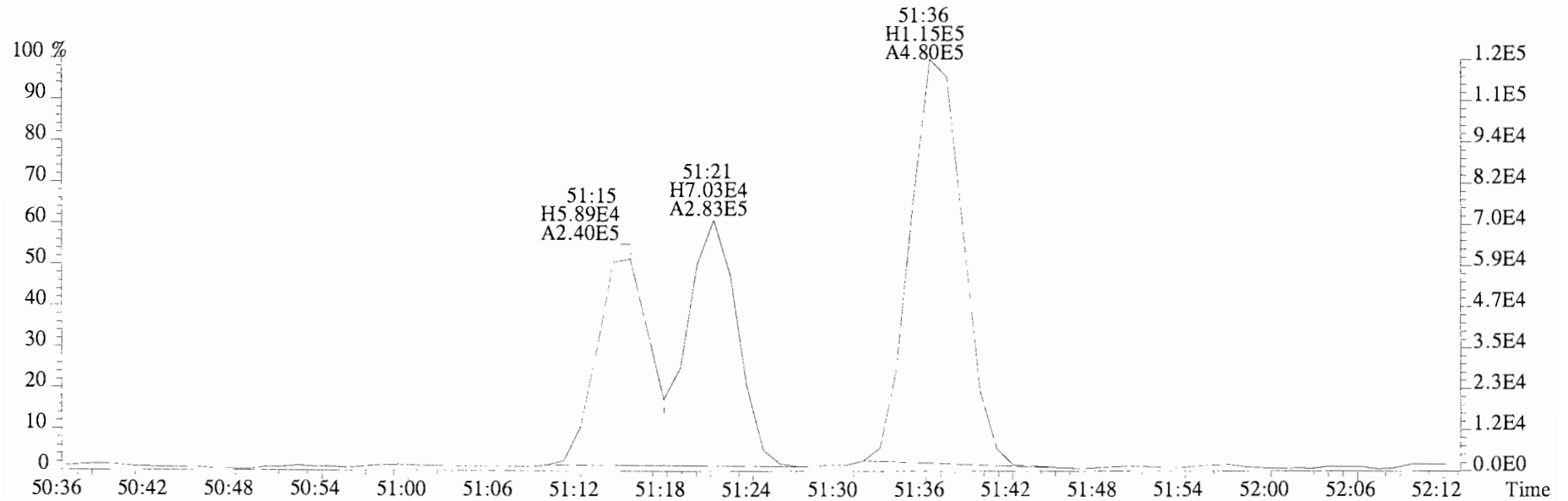
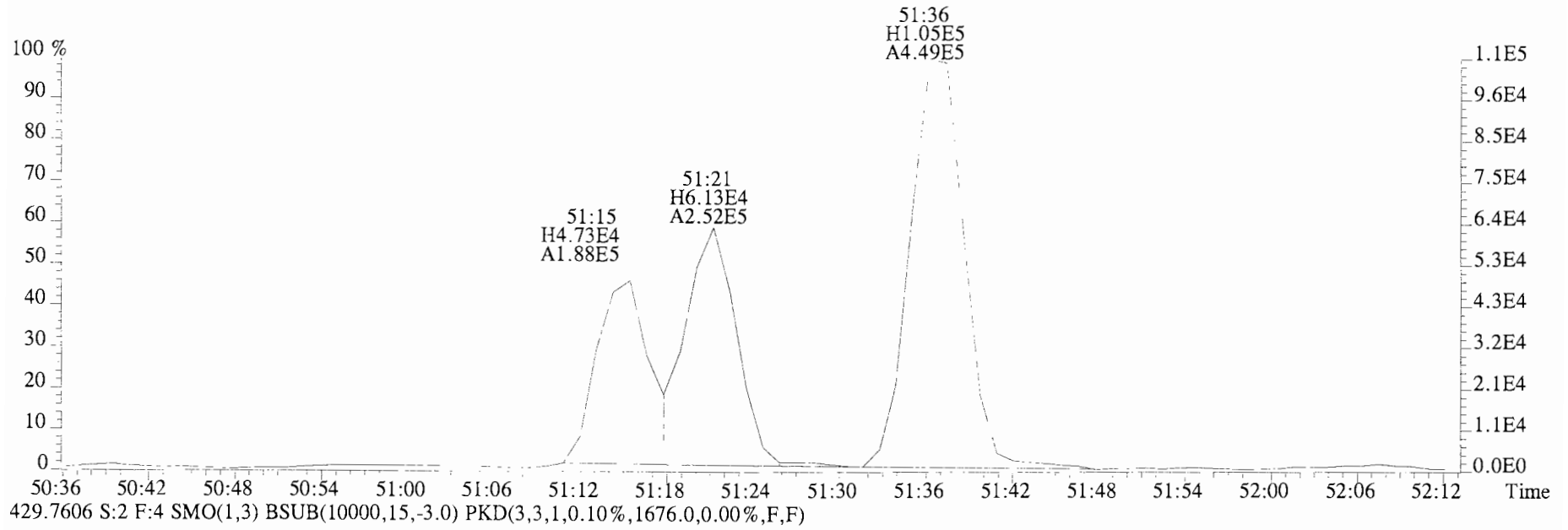
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



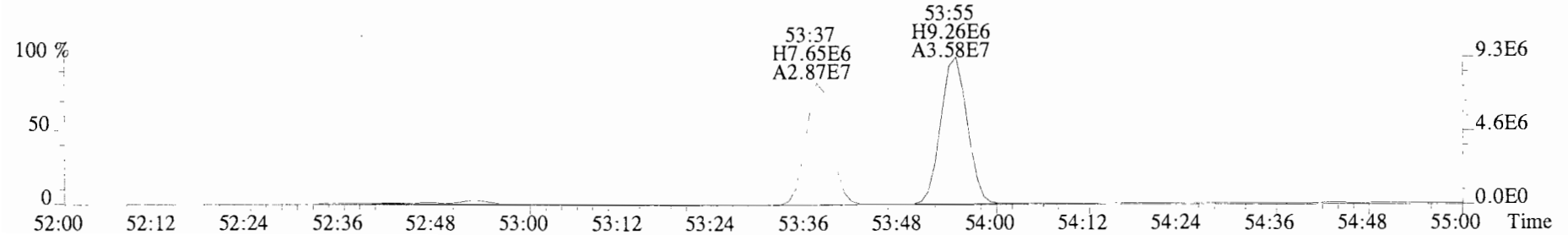
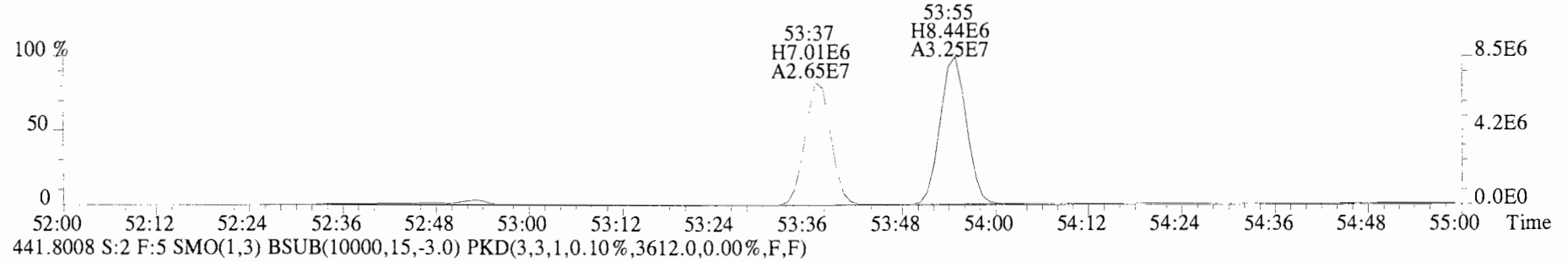
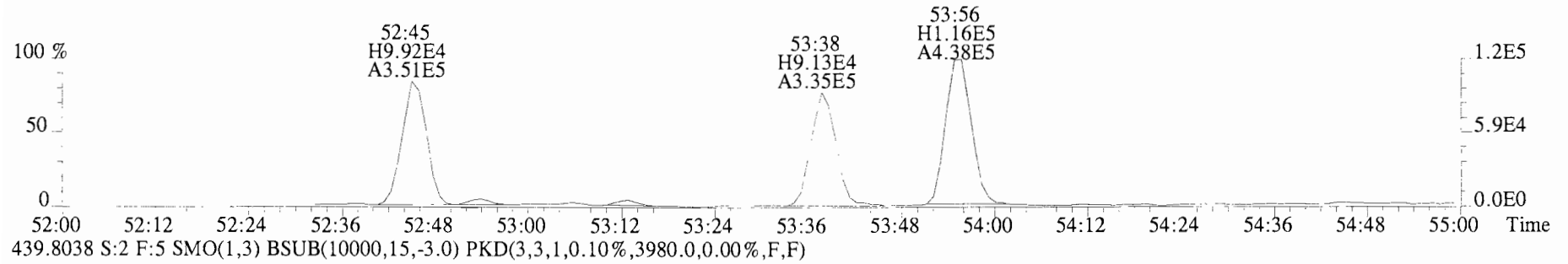
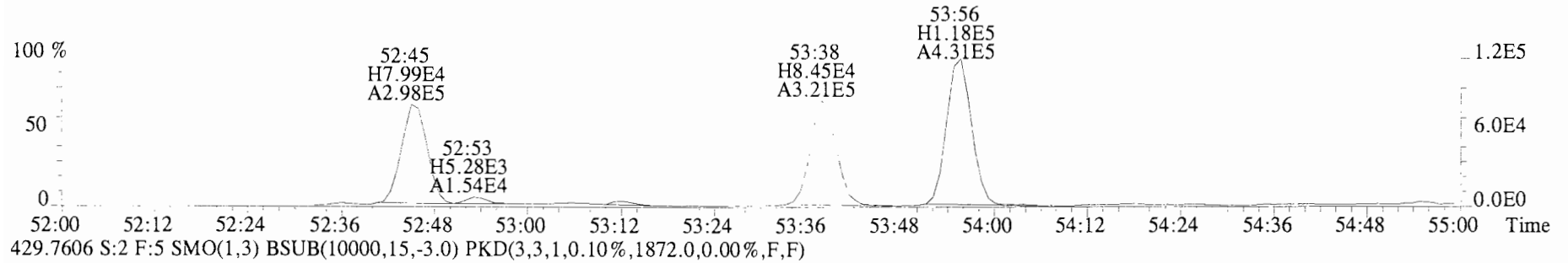
429.7606 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



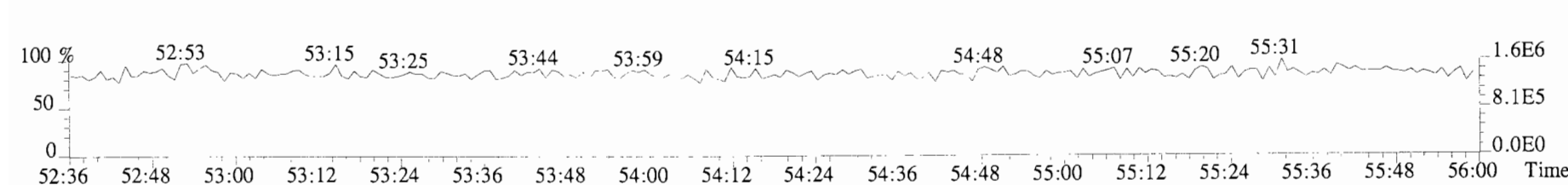
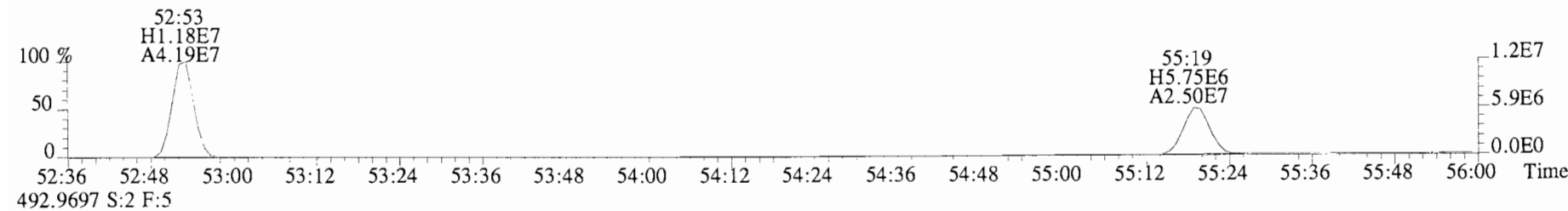
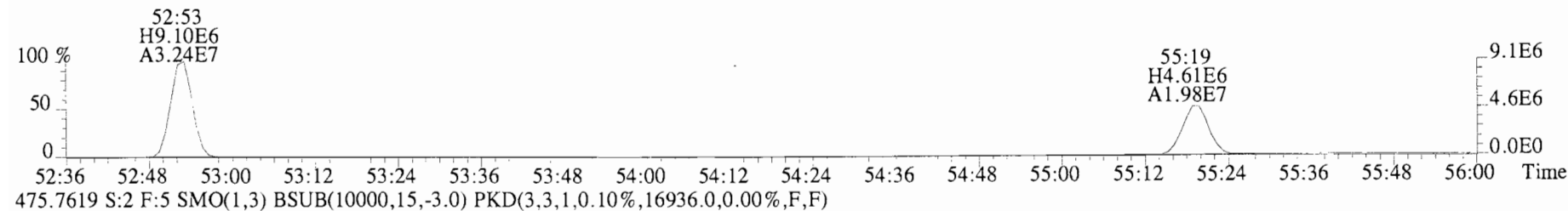
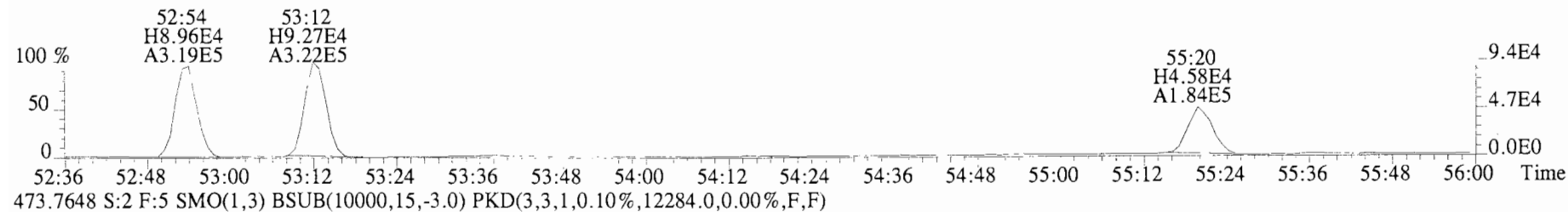
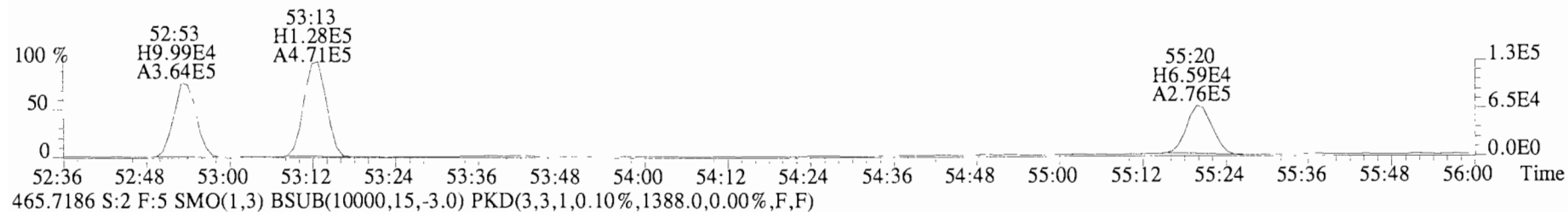
File:140623E2 #1-553 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



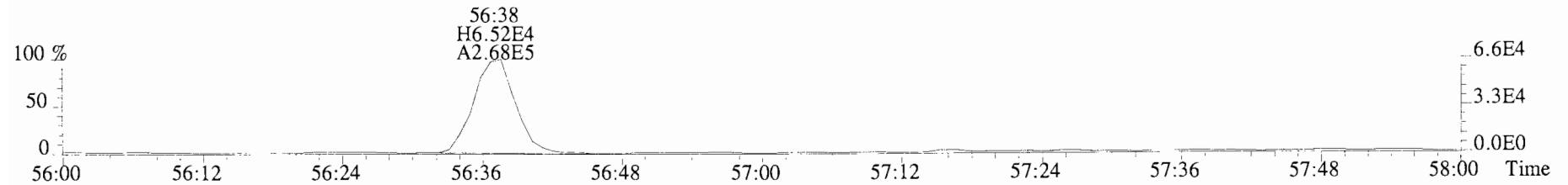
File:140623E2 #1-435 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1376.0,0.00%,F,F)



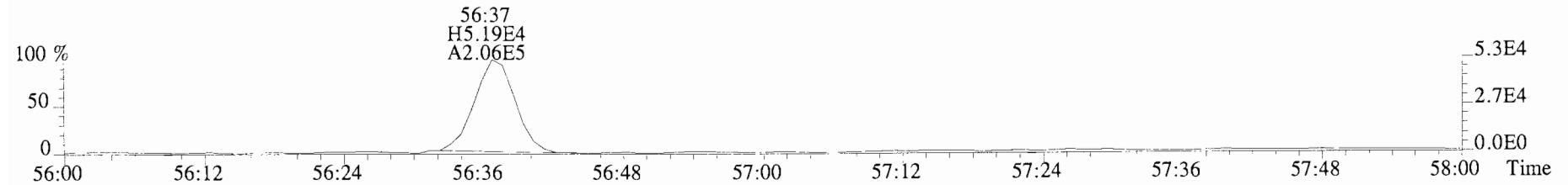
File:140623E2 #1-435 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



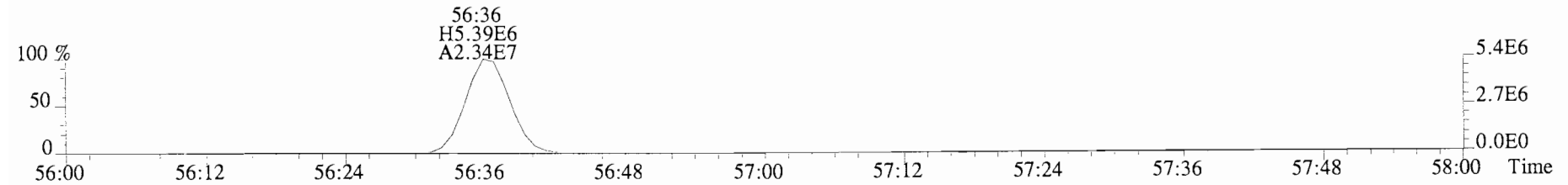
File:140623E2 #1-435 Acq:23-JUN-2014 12:45:53 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-2 PCB CS1 14F1603 Exp:PCB\_ZB1  
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1348.0,0.00%,F,F)



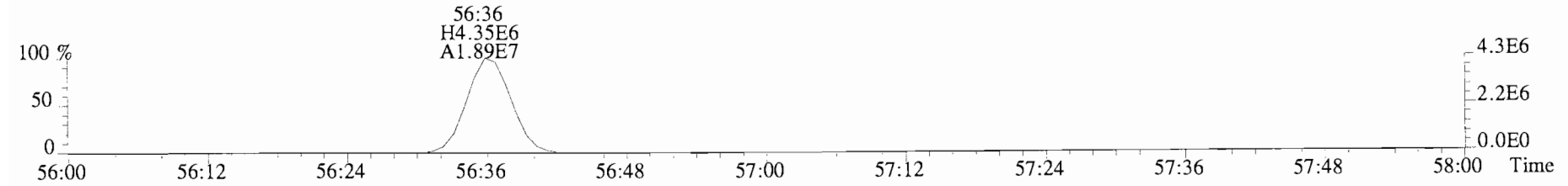
499.6797 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1368.0,0.00%,F,F)



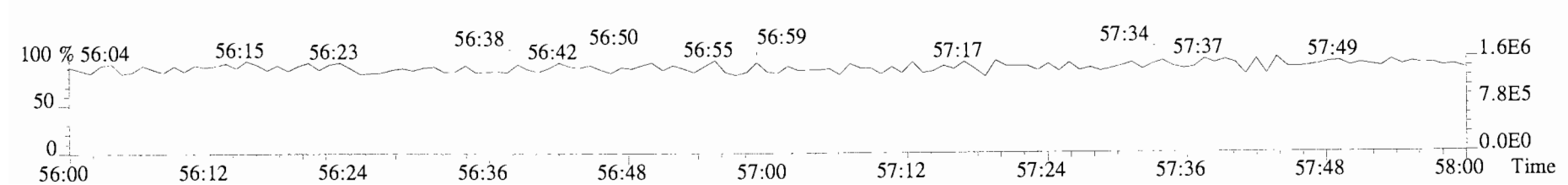
509.7229 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1320.0,0.00%,F,F)



511.7199 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1552.0,0.00%,F,F)

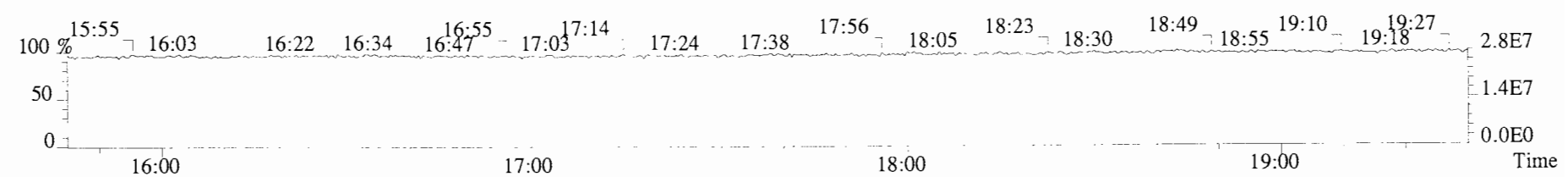
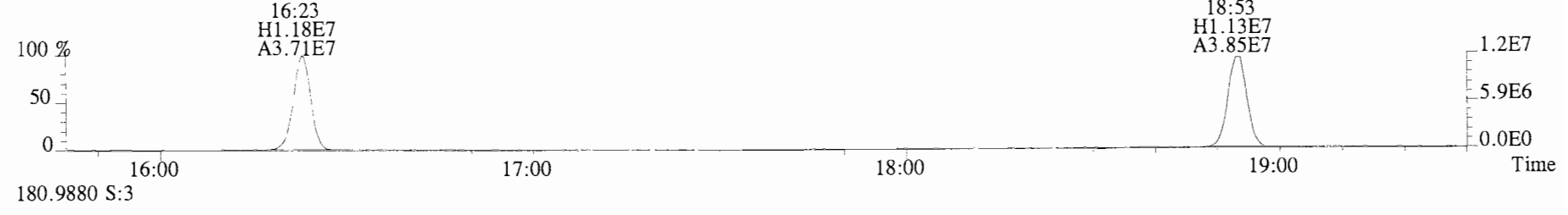
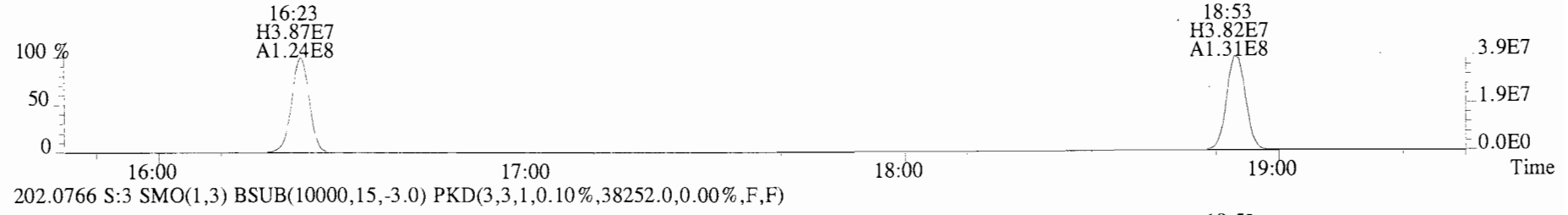
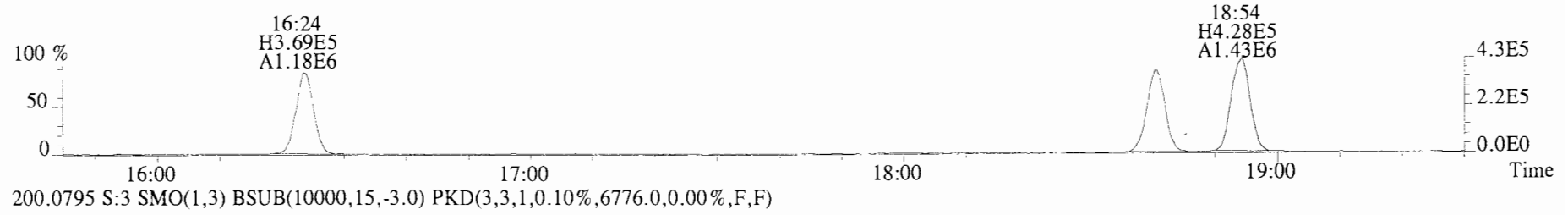
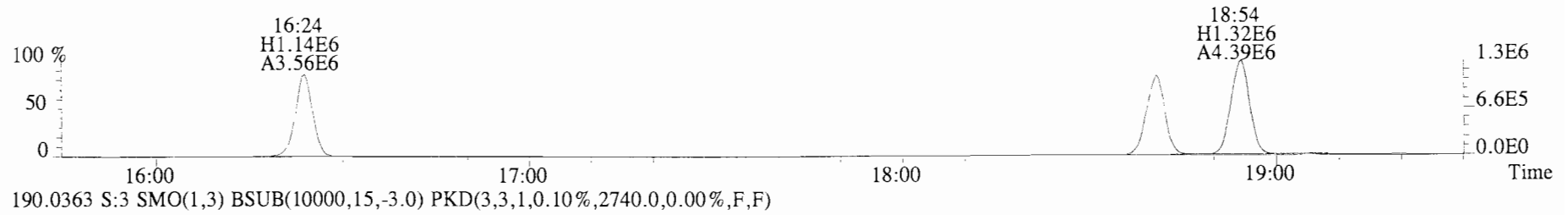


492.9697 S:2 F:5

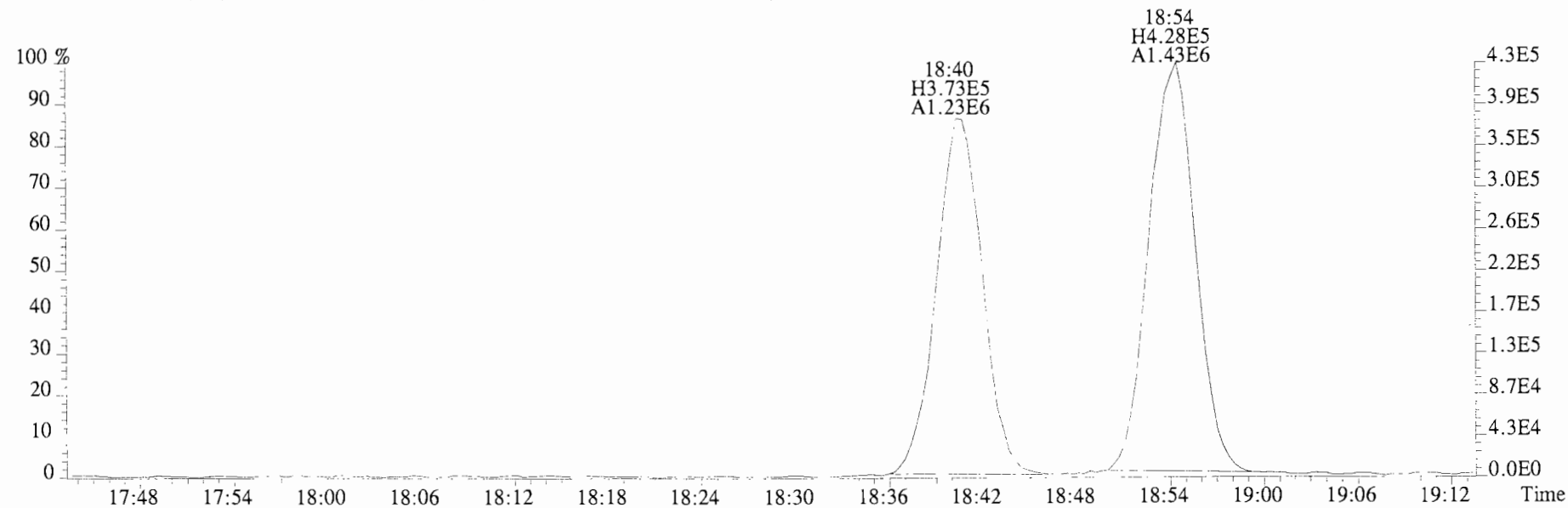
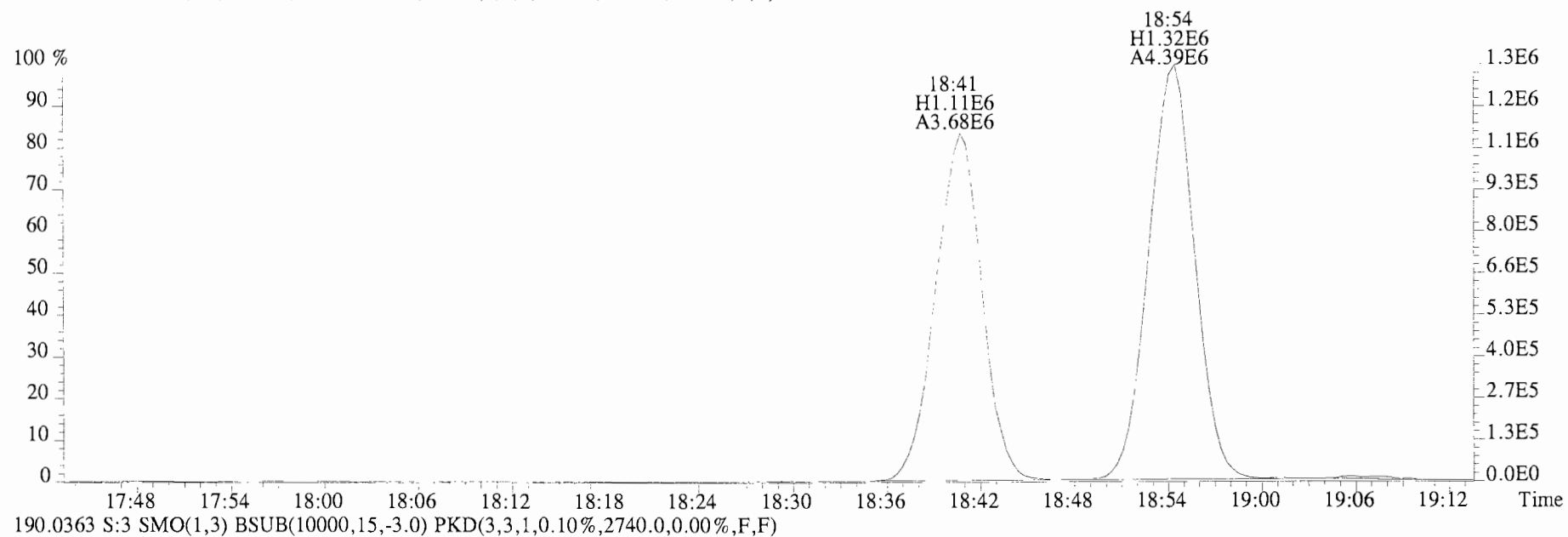




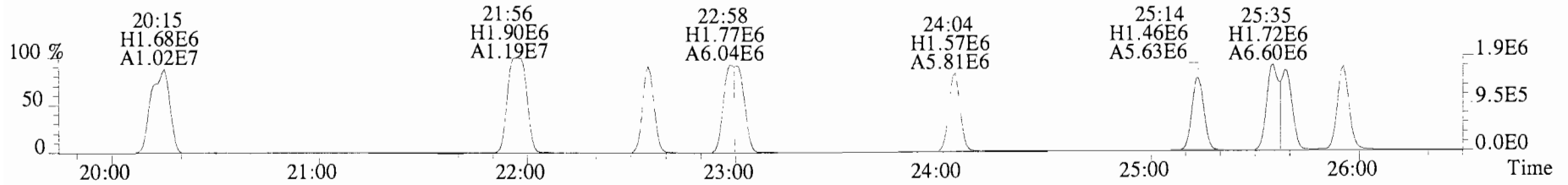
File:140623E2 #1-728 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
188.0393 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



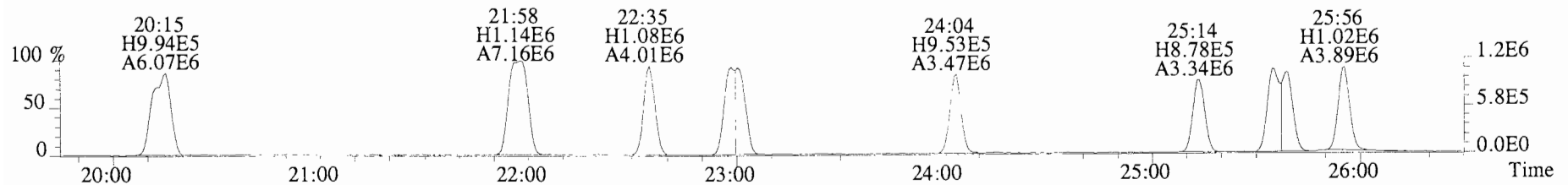
File:140623E2 #1-728 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
188.0393 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2220.0,0.00%,F,F)



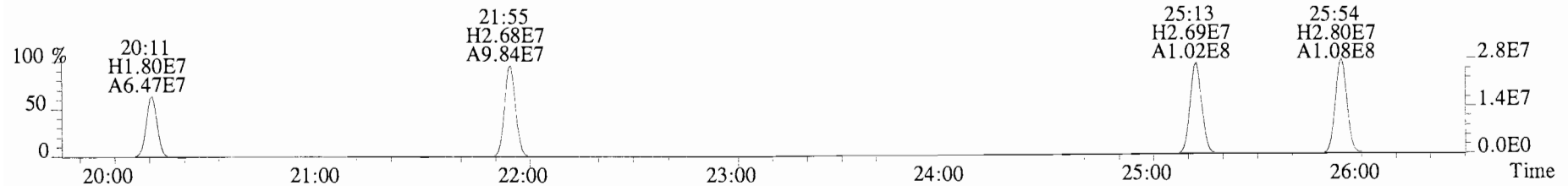
File:140623E2 #1-750 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3784.0,0.00%,F,F)



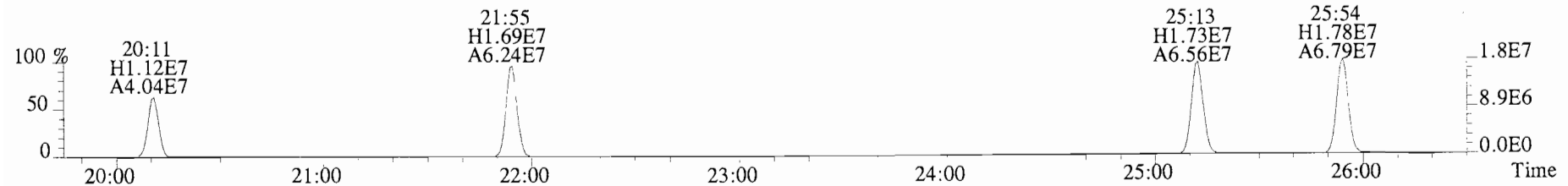
223.9974 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10800.0,0.00%,F,F)



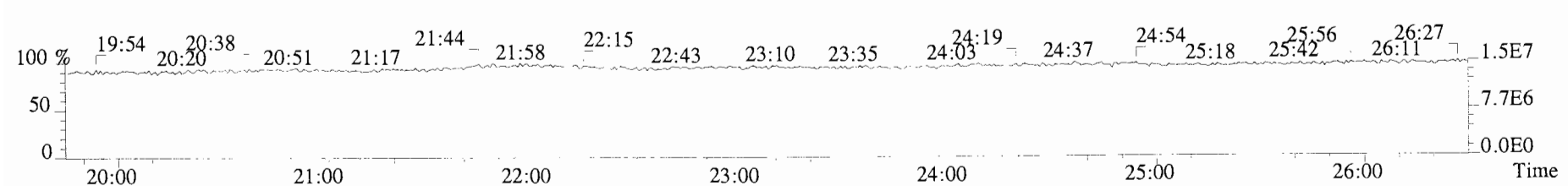
234.0406 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6172.0,0.00%,F,F)



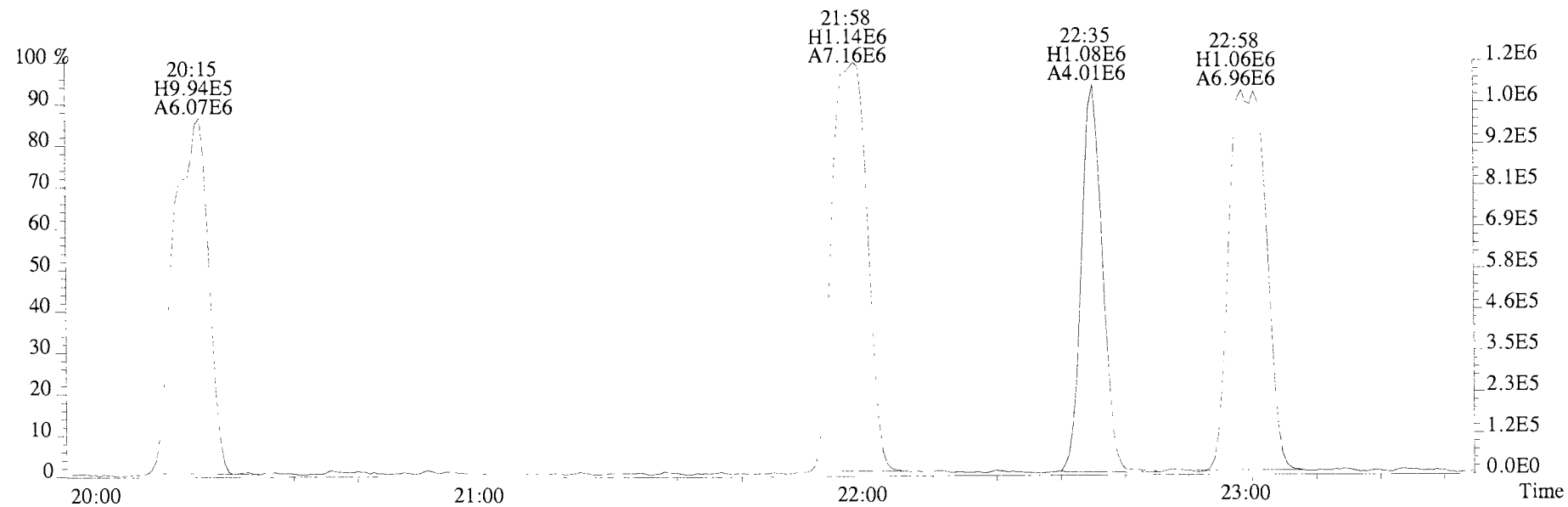
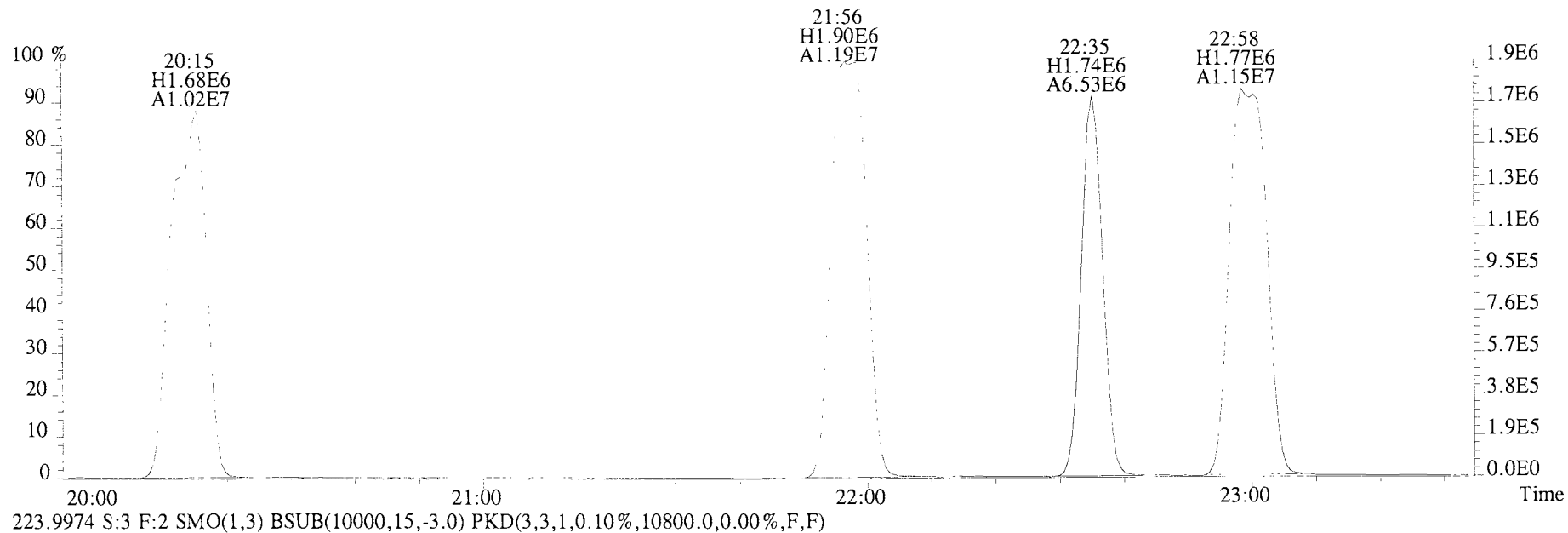
236.0376 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4396.0,0.00%,F,F)



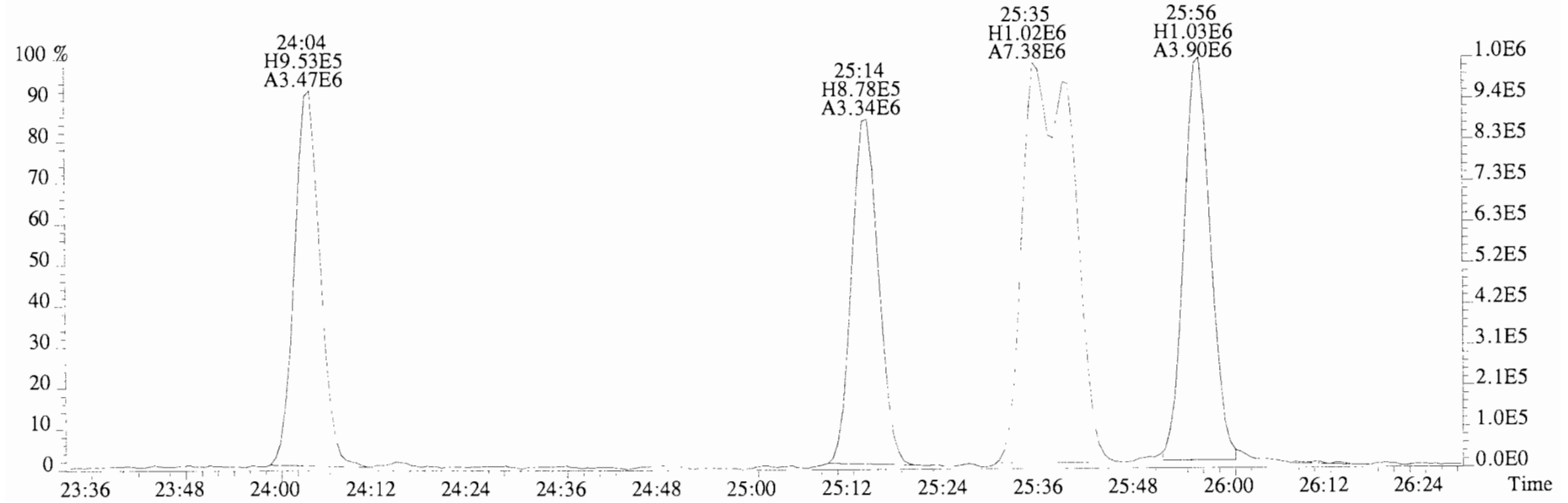
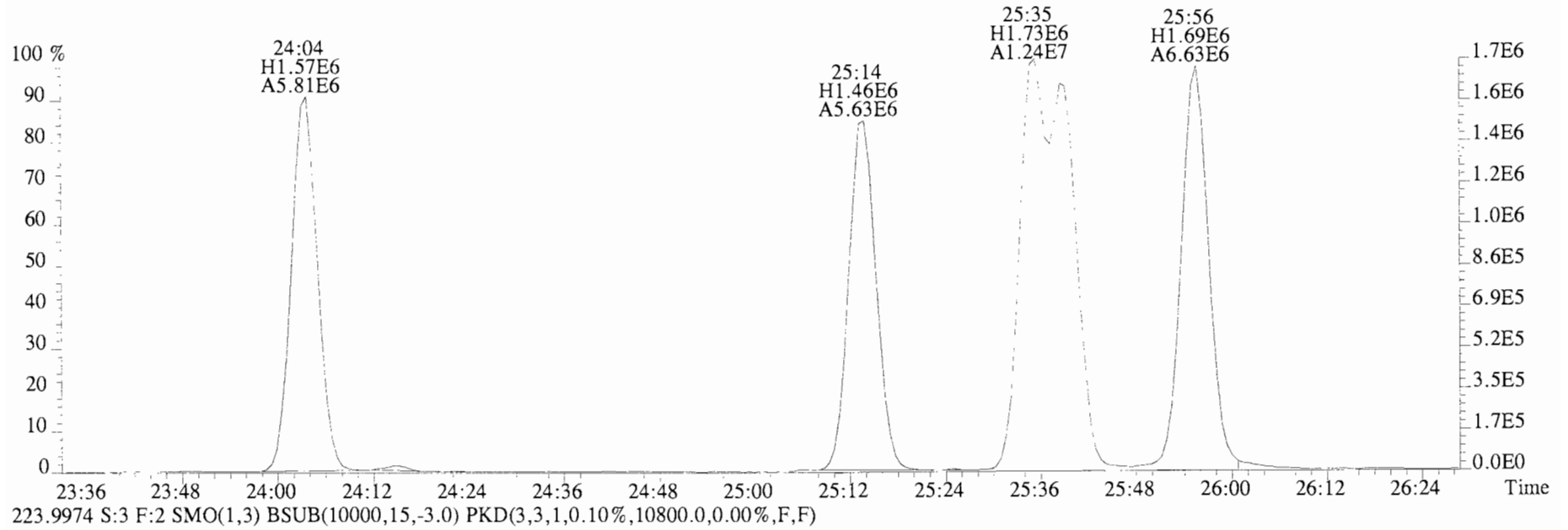
230.9856 S:3 F:2



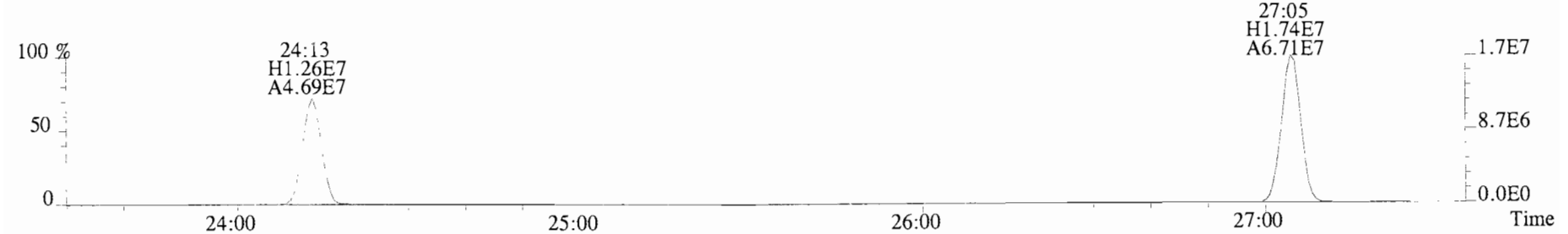
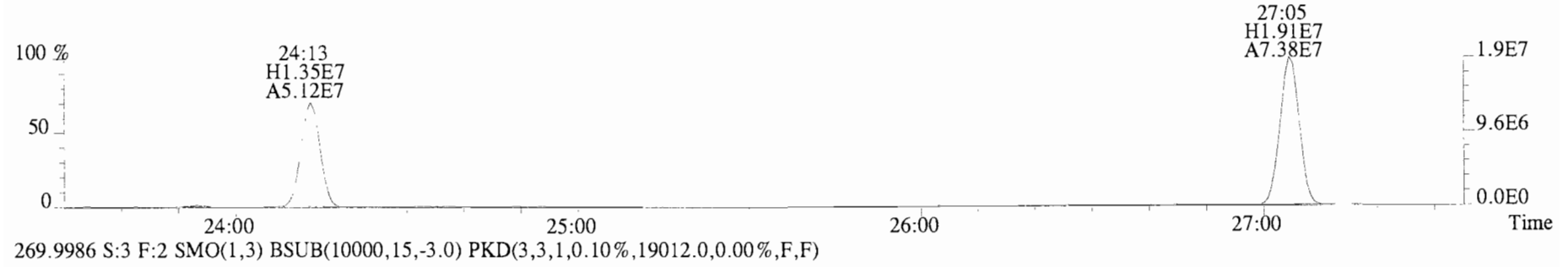
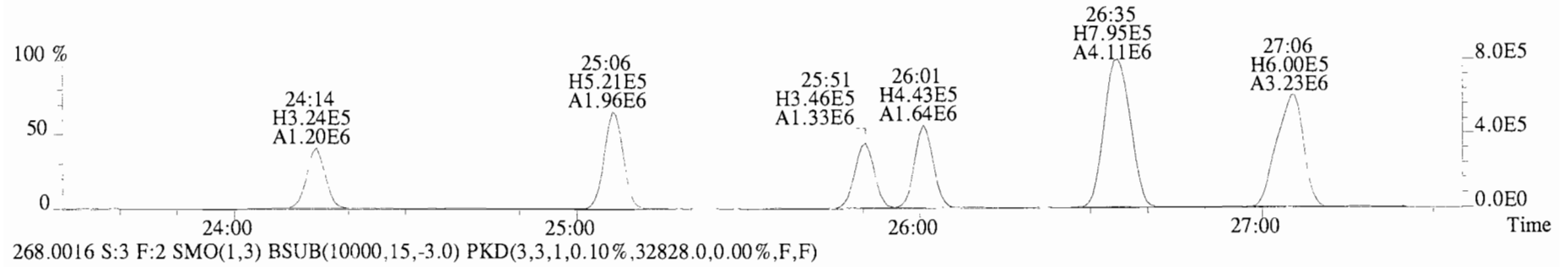
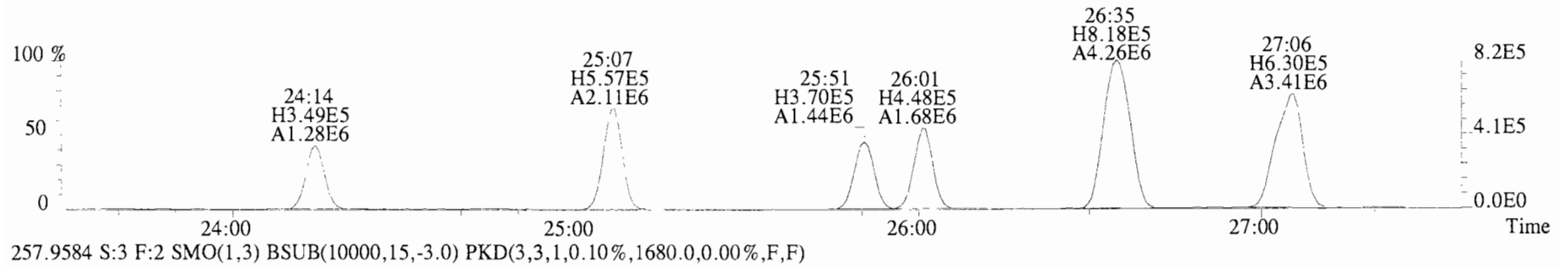
File:140623E2 #1-750 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3784.0,0.00%,F,F)



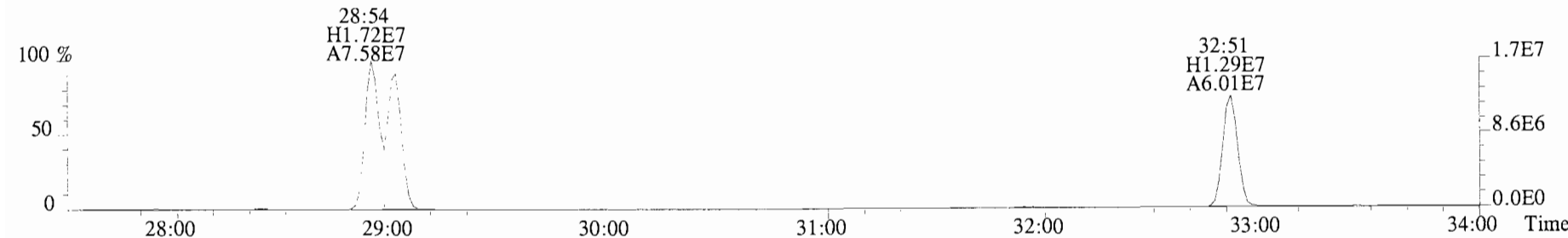
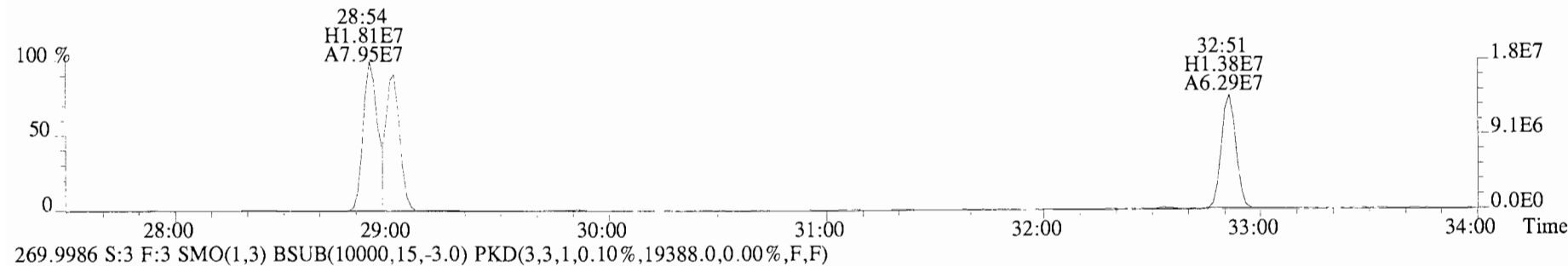
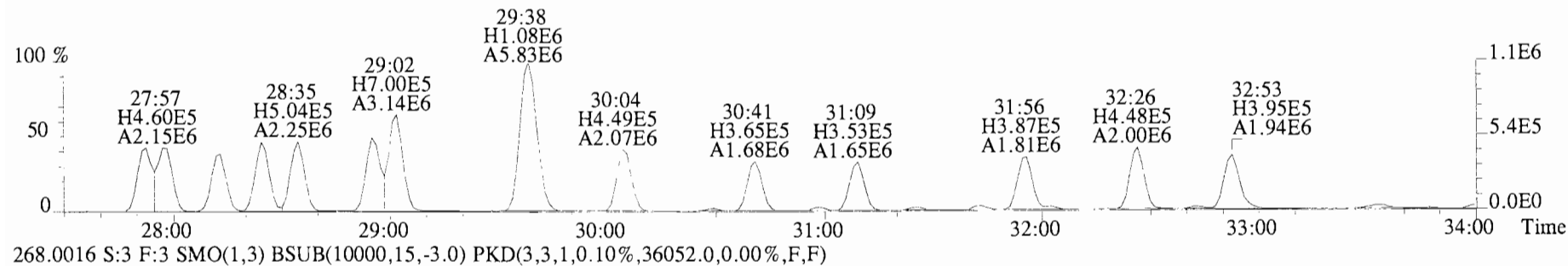
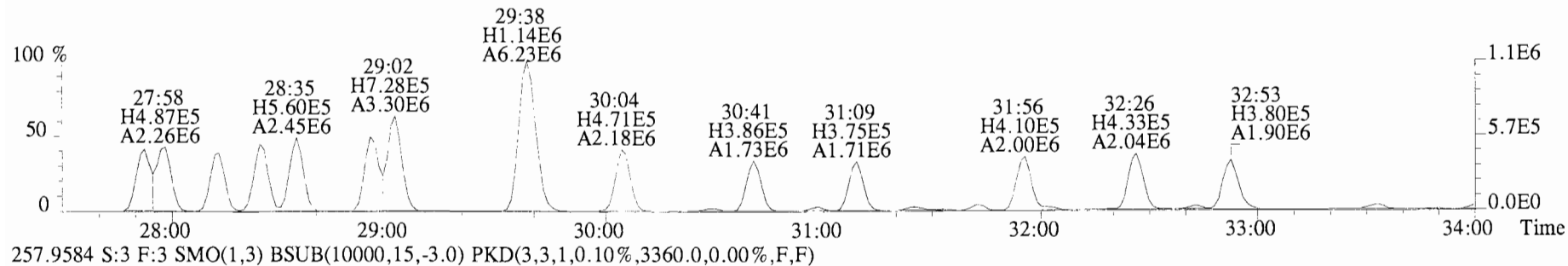
File:140623E2 #1-750 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3784.0,0.00%,F,F)



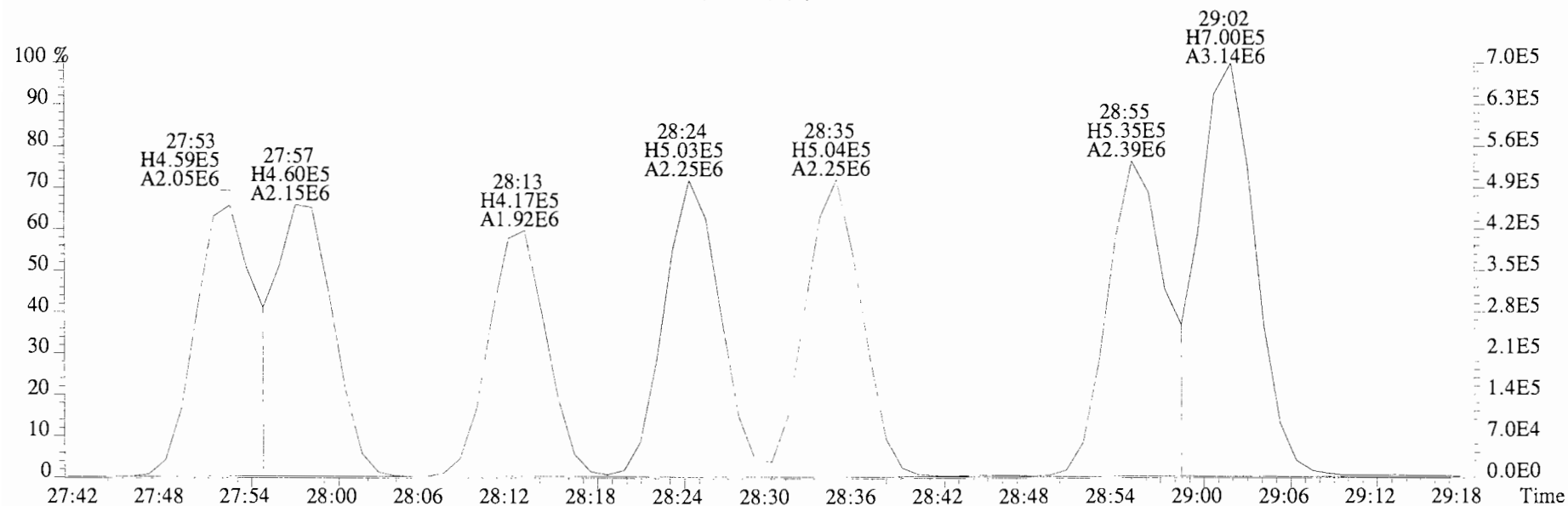
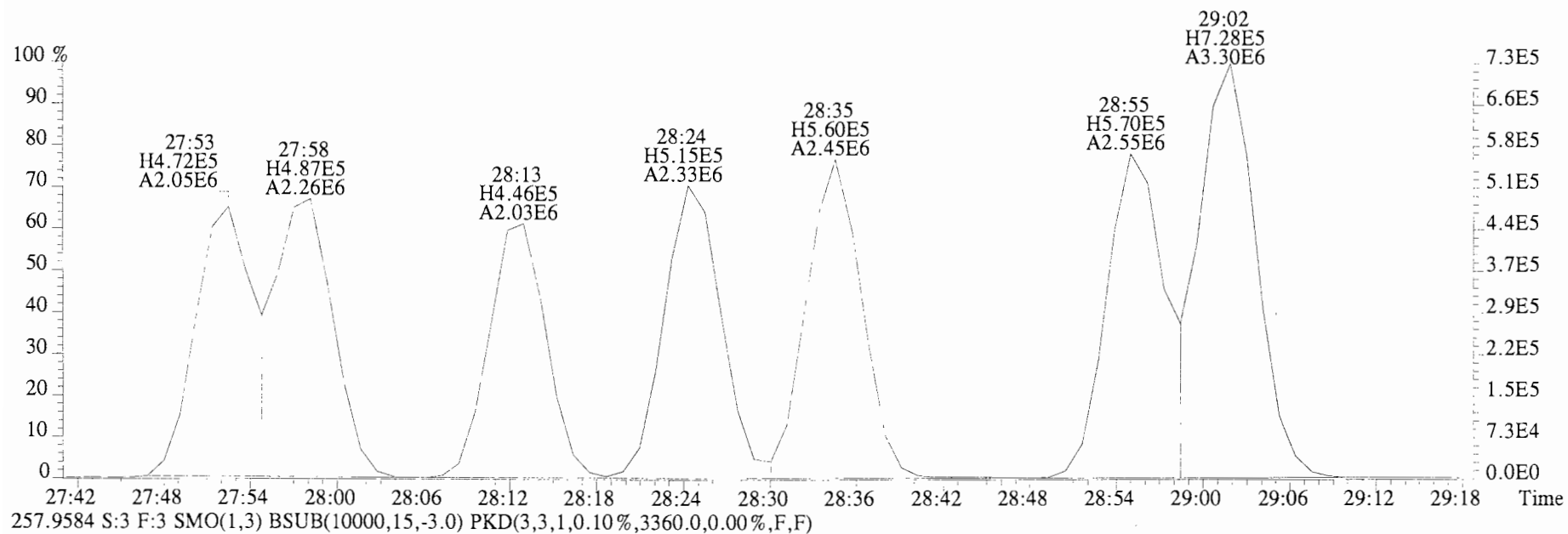
File:140623E2 #1-750 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2024.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2960.0,0.00%,F,F)

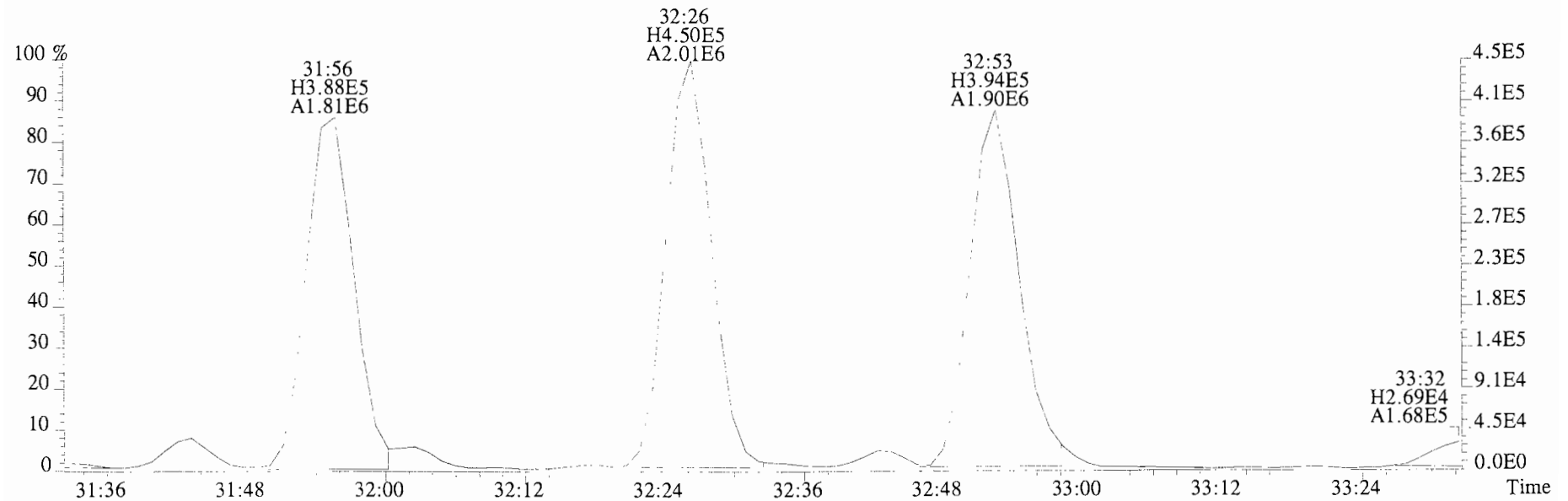
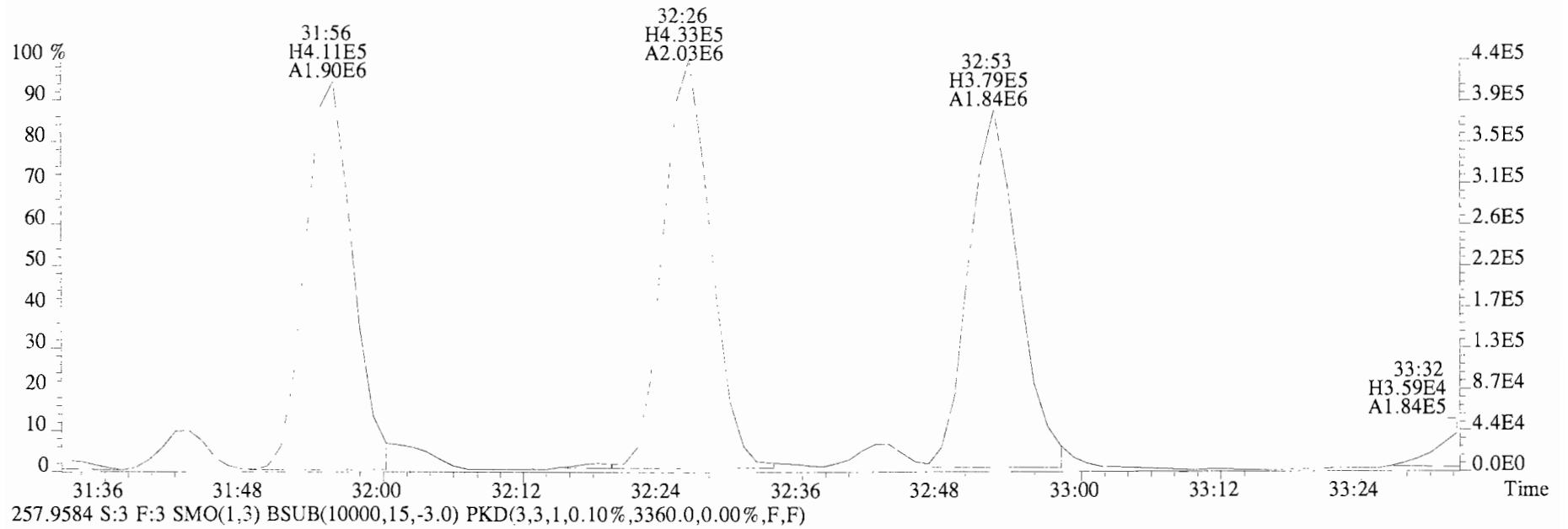


File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
 255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2960.0,0.00%,F,F)

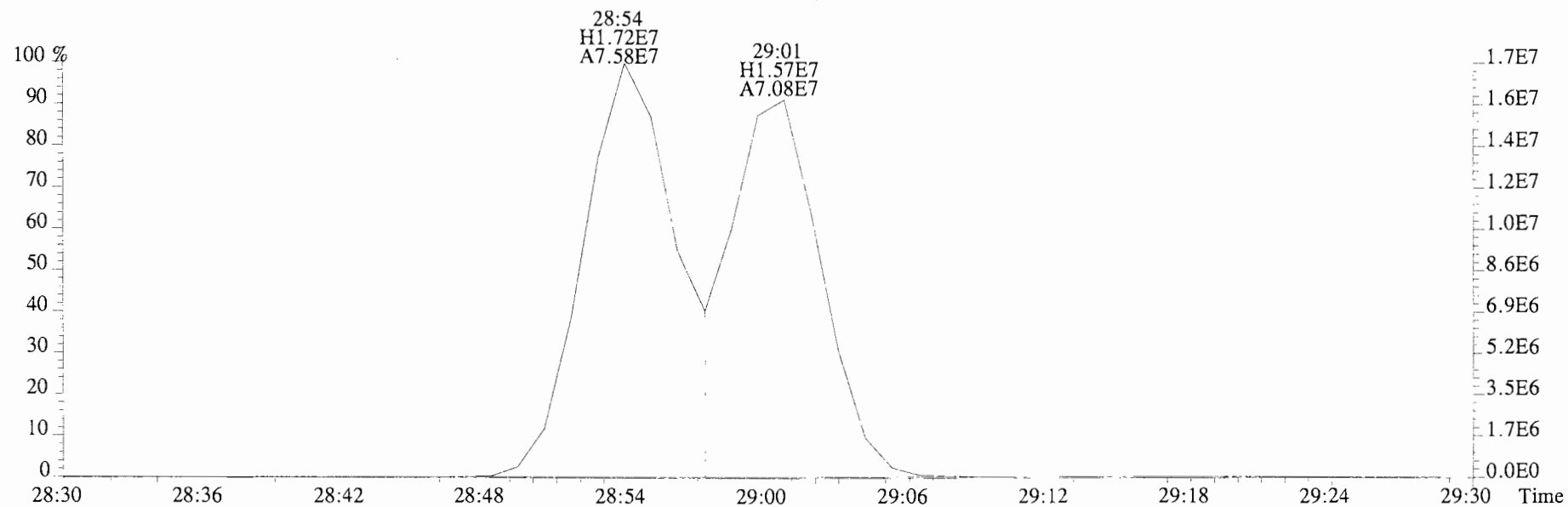
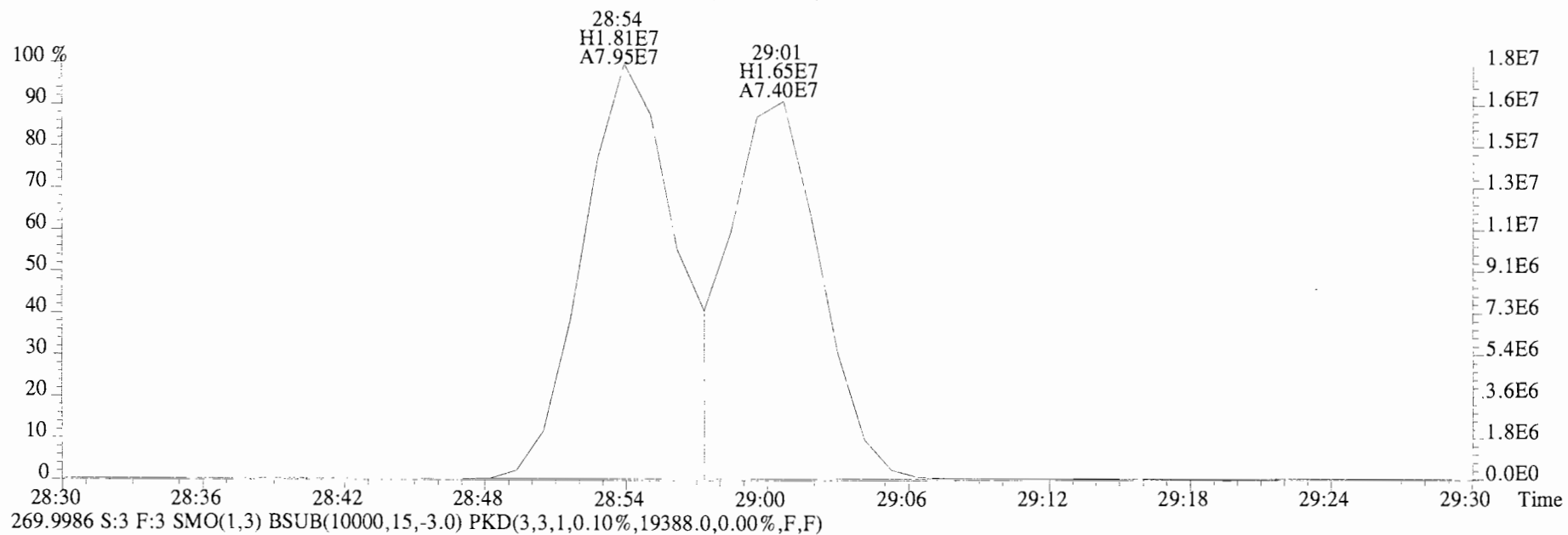




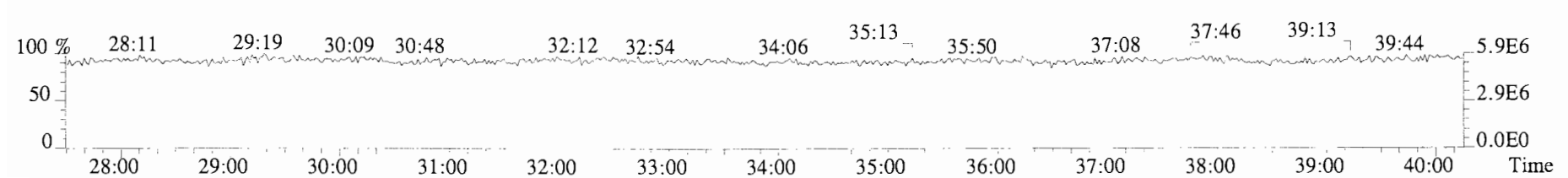
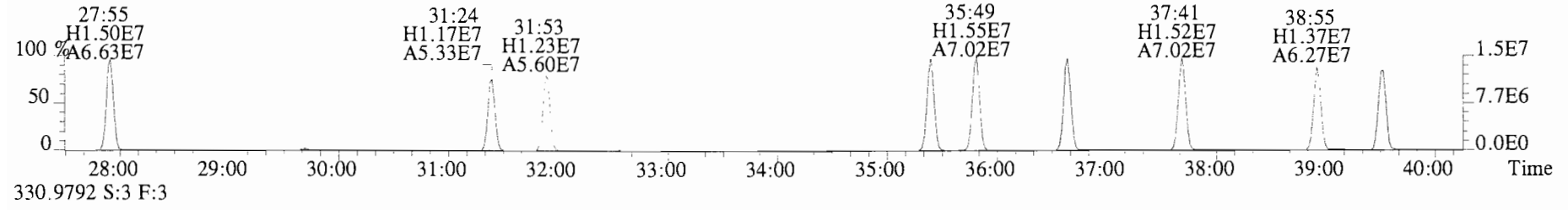
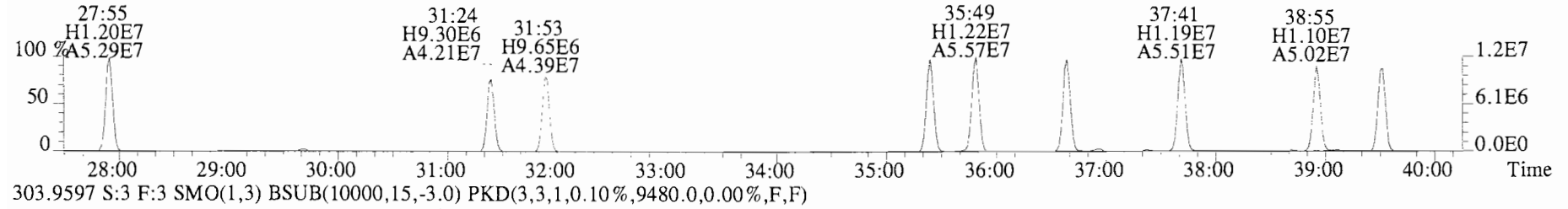
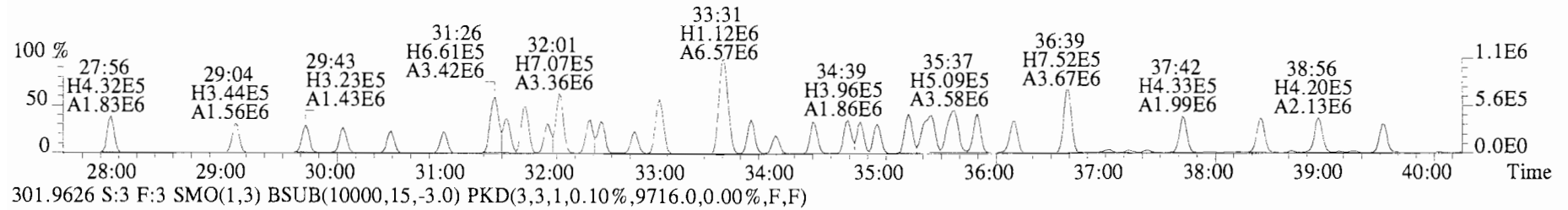
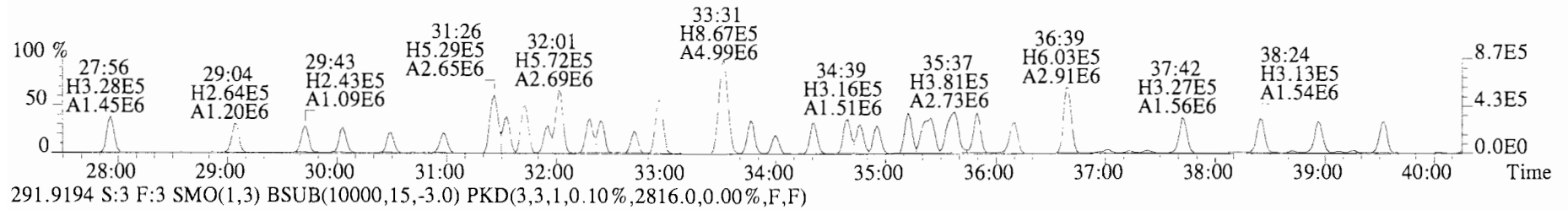
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2960.0,0.00%,F,F)



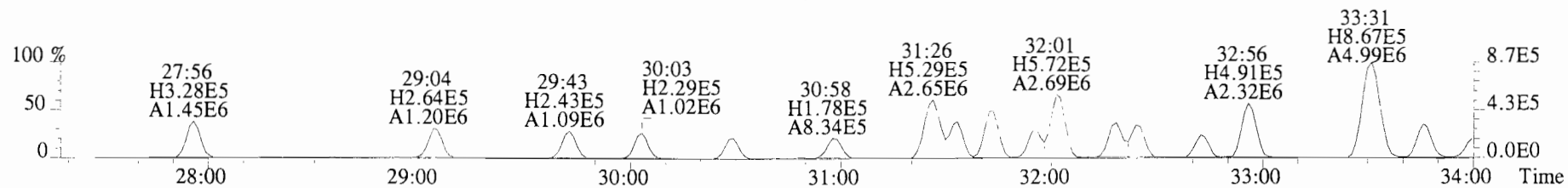
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
268.0016 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,36052.0,0.00%,F,F)



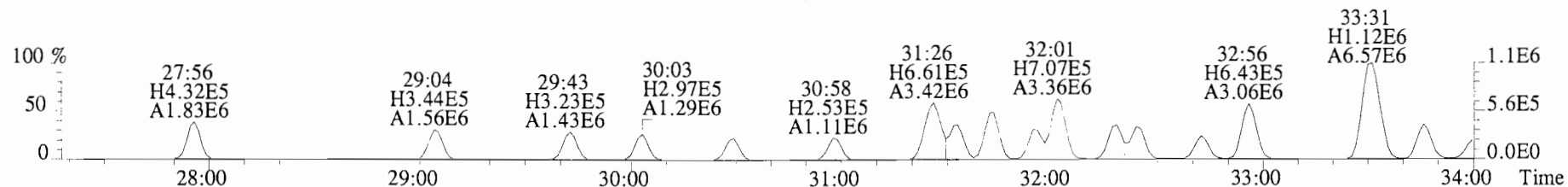
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2380.0,0.00%,F,F)



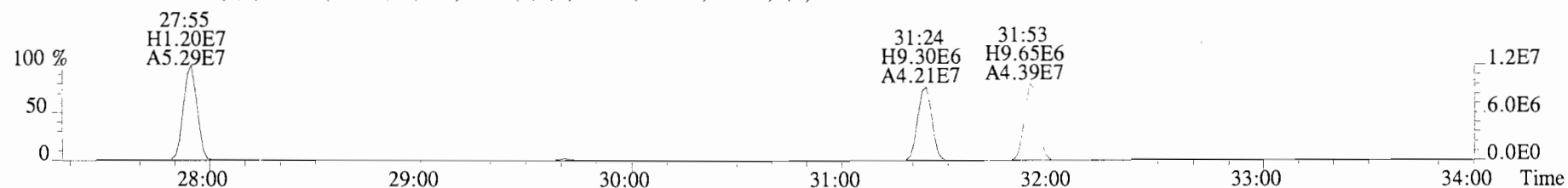
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2380.0,0.00%,F,F)



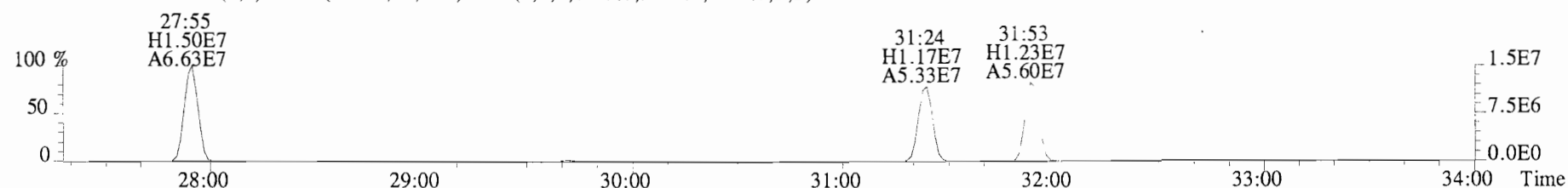
291.9194 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



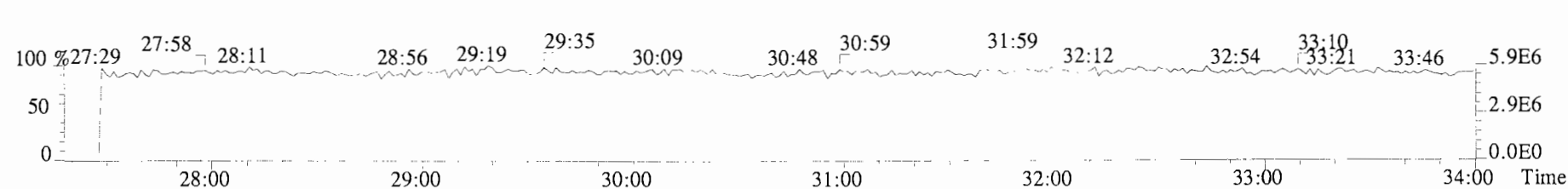
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9716.0,0.00%,F,F)



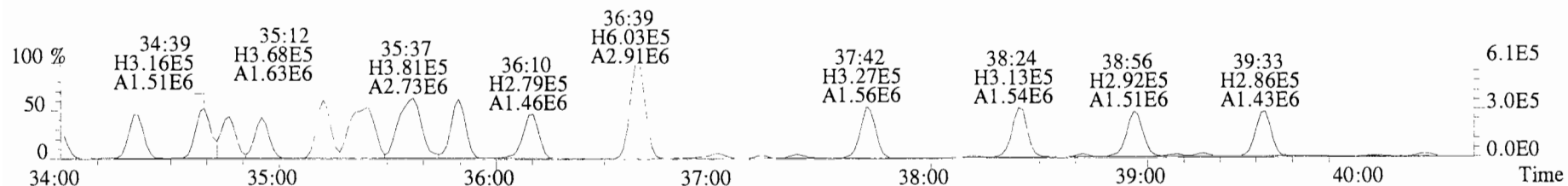
303.9597 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9480.0,0.00%,F,F)



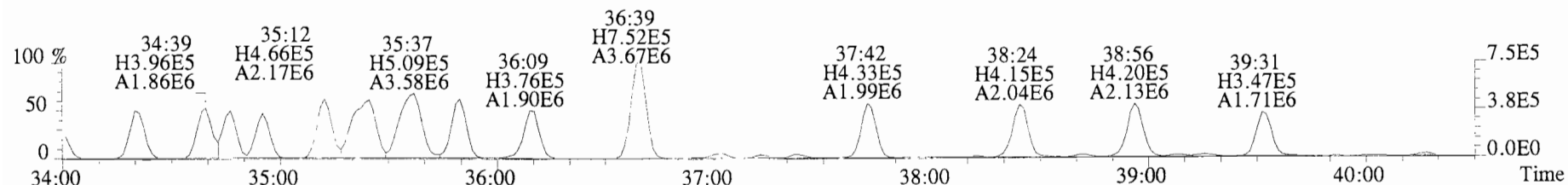
330.9792 S:3 F:3



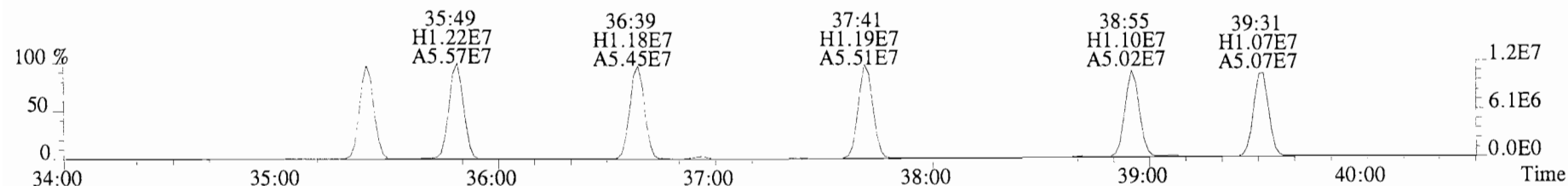
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2380.0,0.00%,F,F)



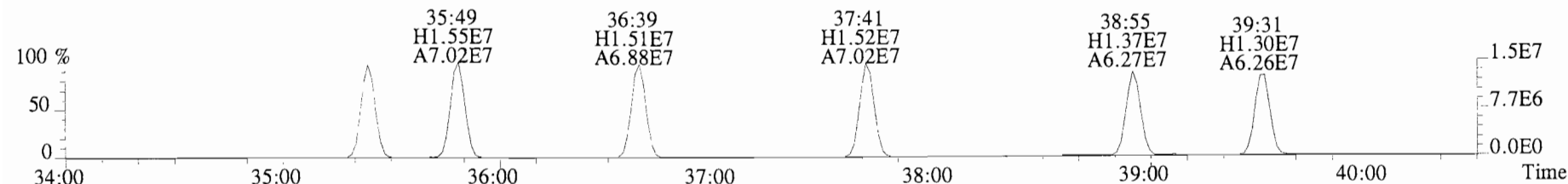
291.9194 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



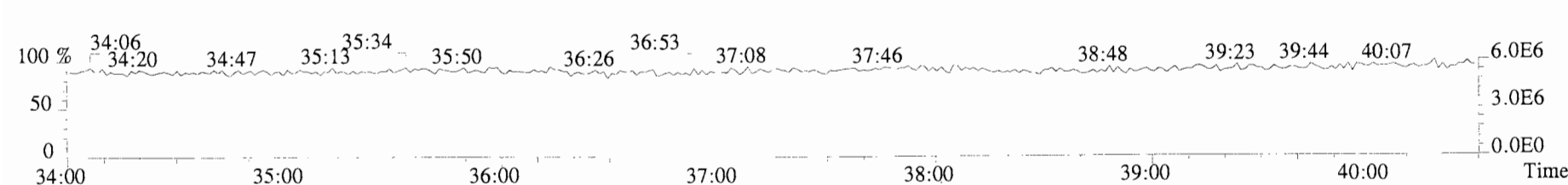
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9716.0,0.00%,F,F)



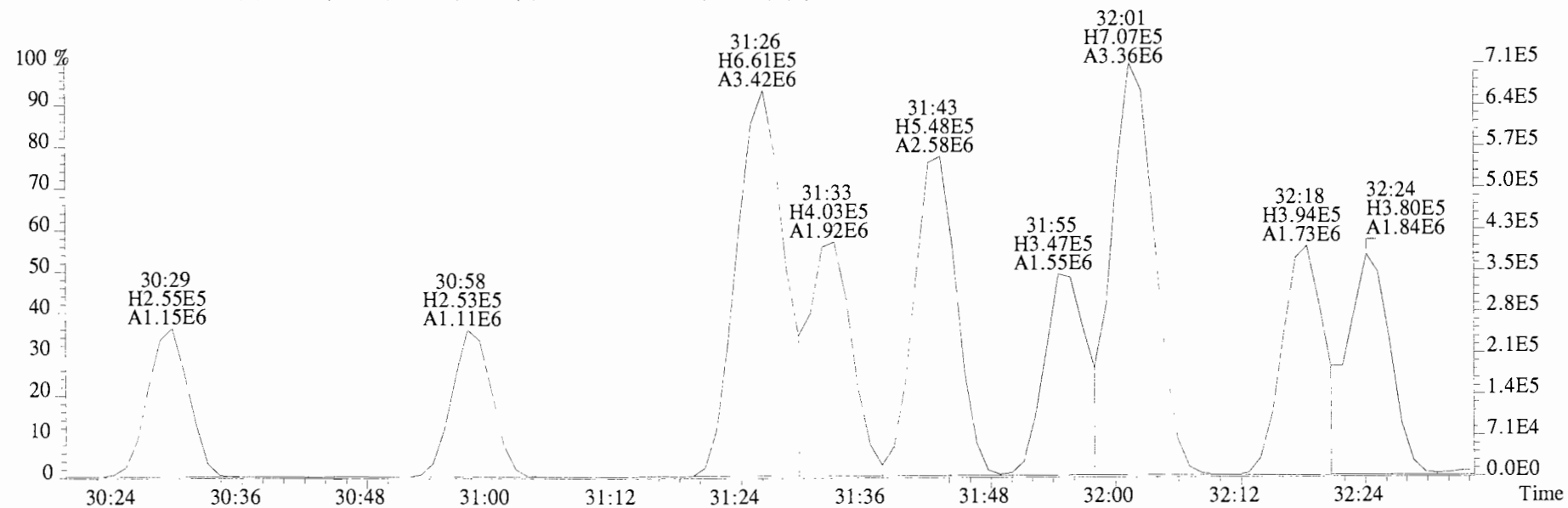
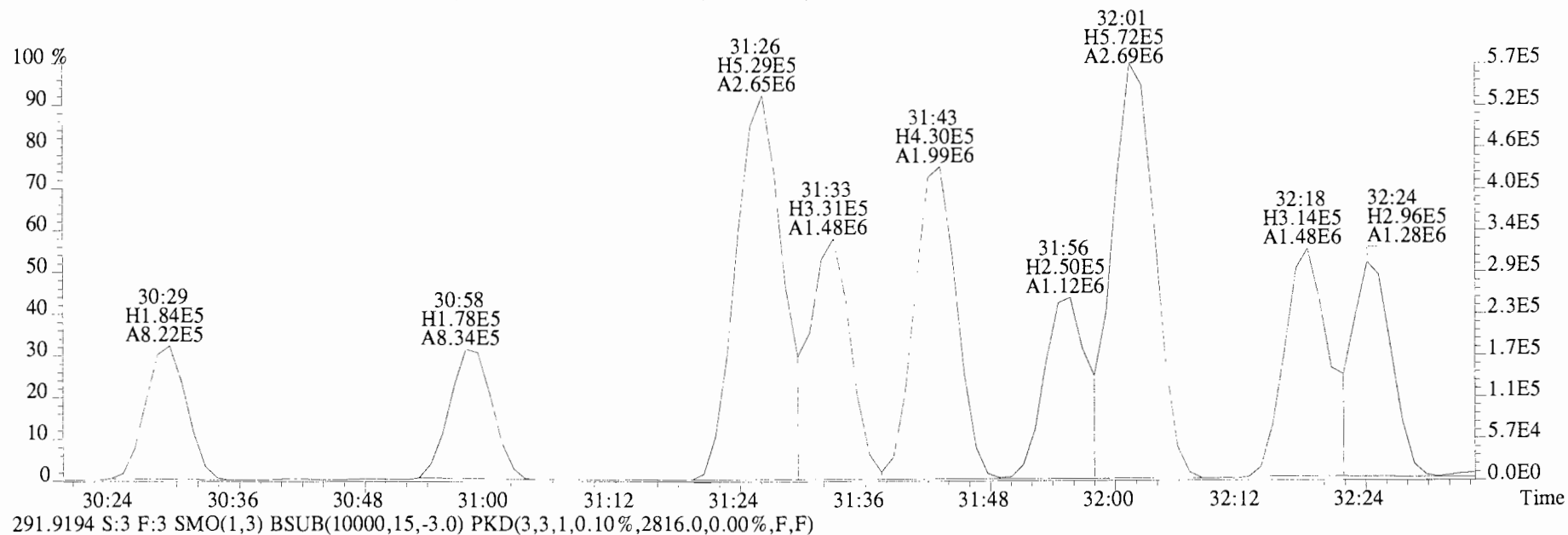
303.9597 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9480.0,0.00%,F,F)



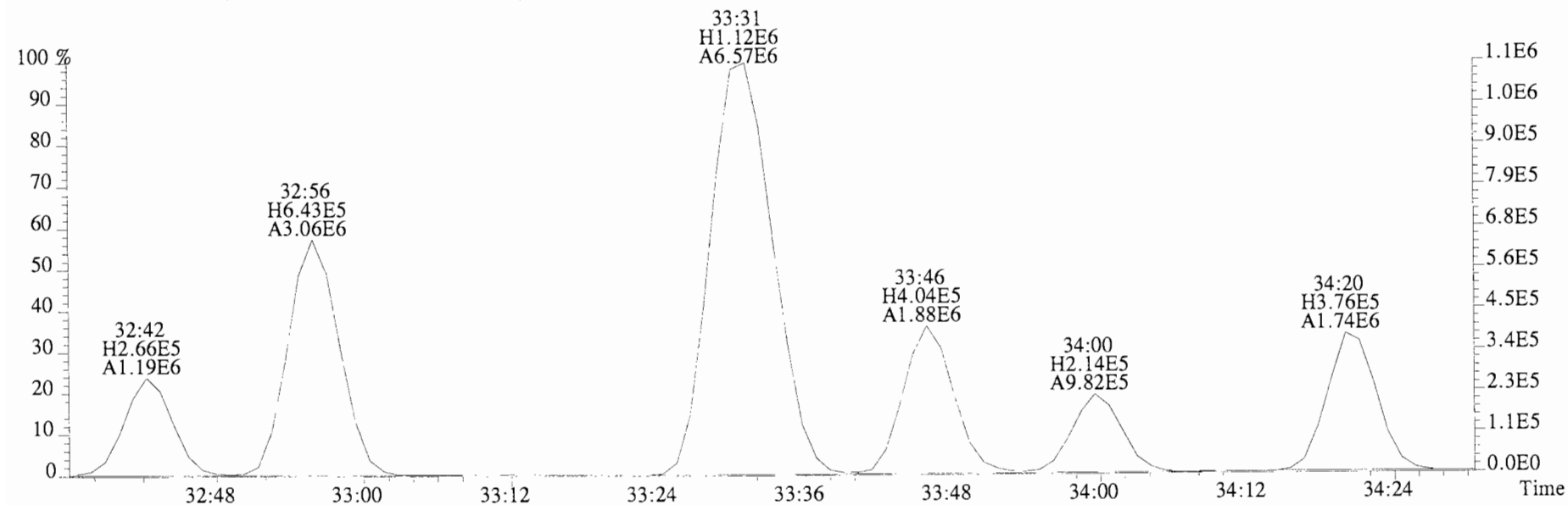
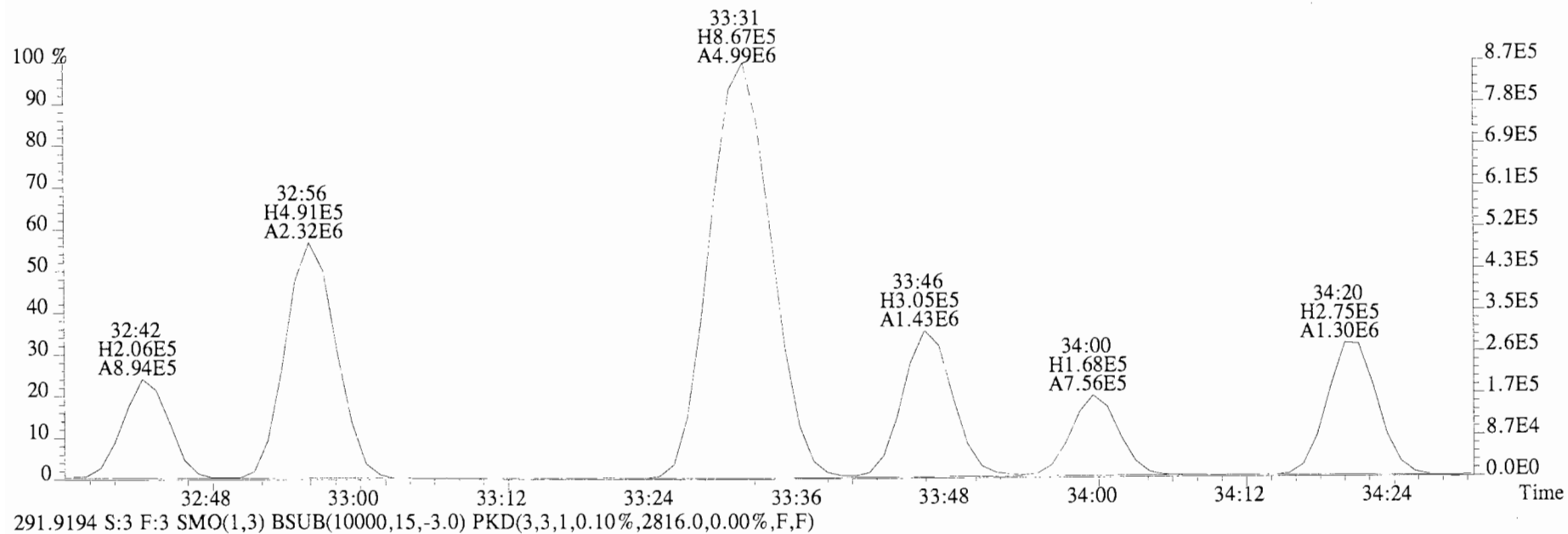
330.9792 S:3 F:3



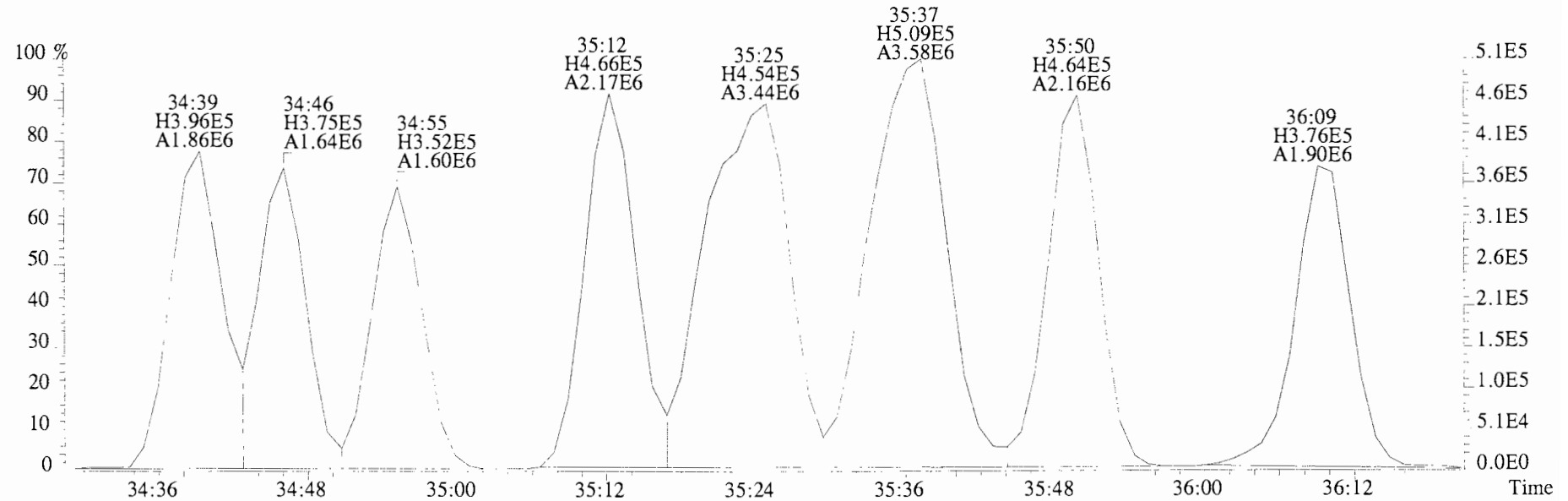
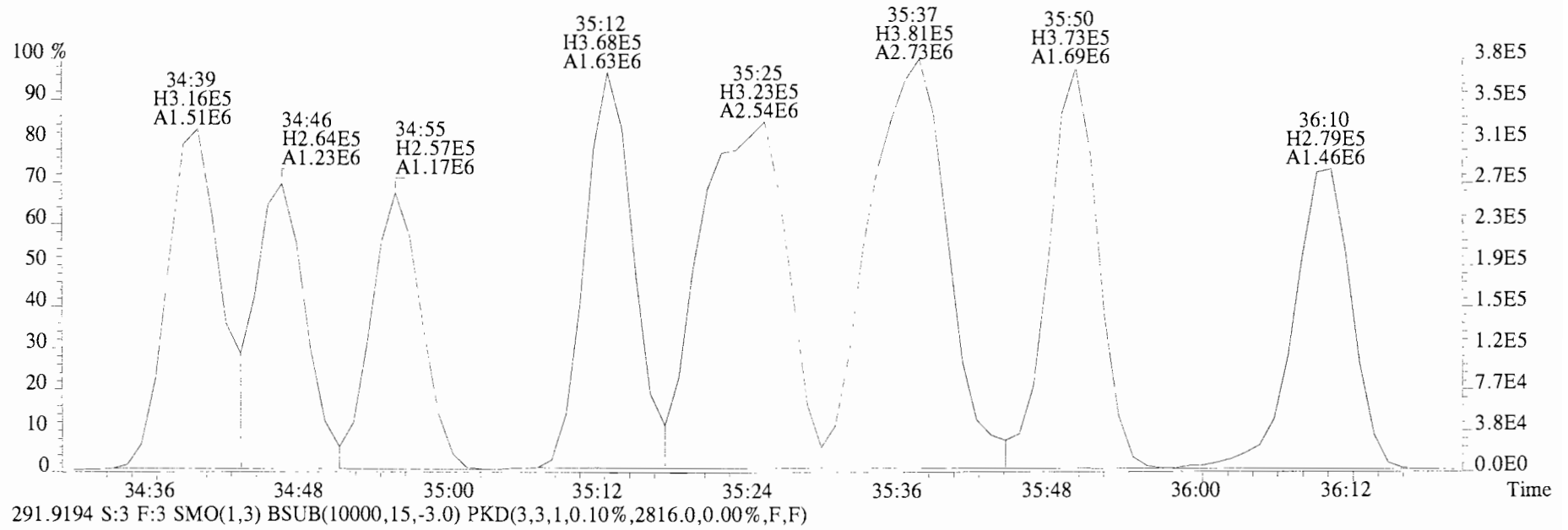
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2380.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2380.0,0.00%,F,F)

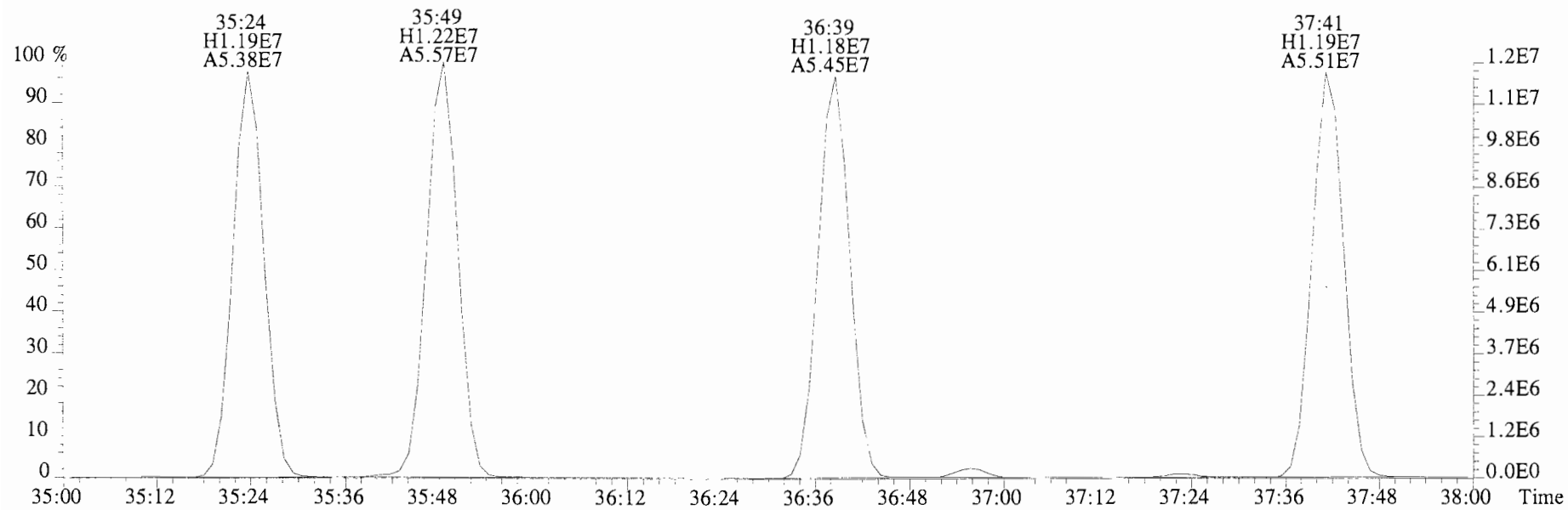


File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2380.0,0.00%,F,F)

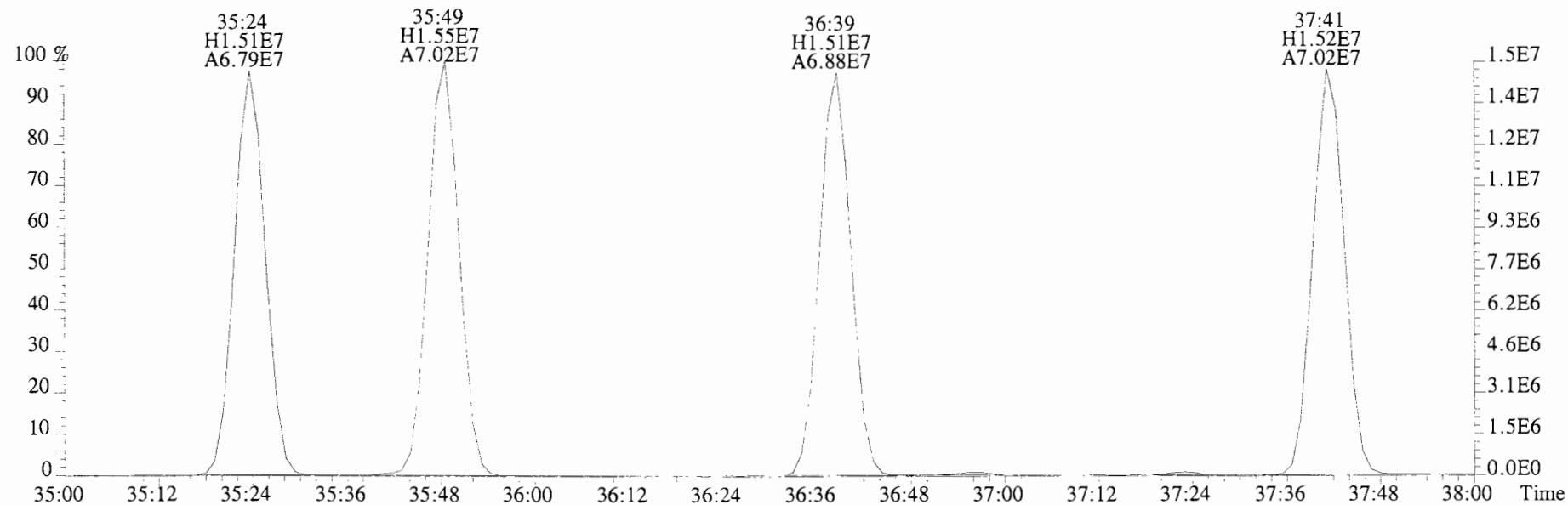




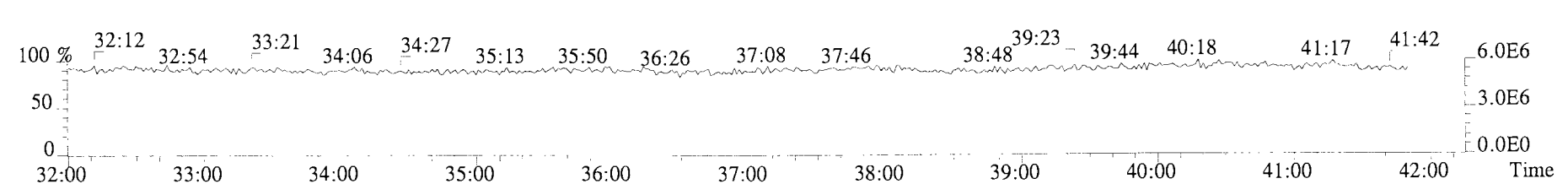
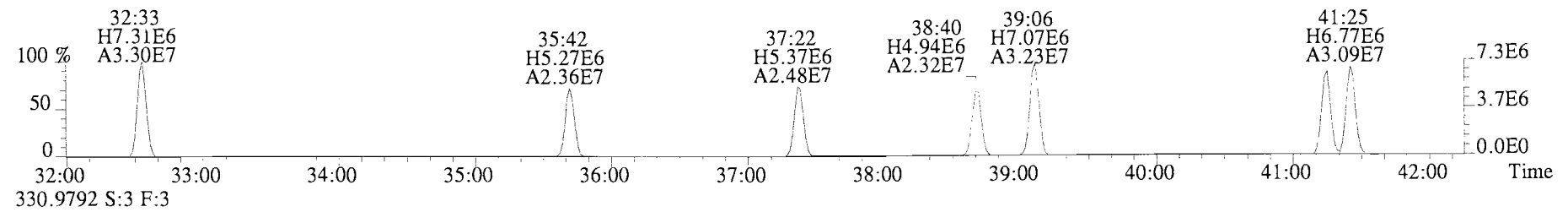
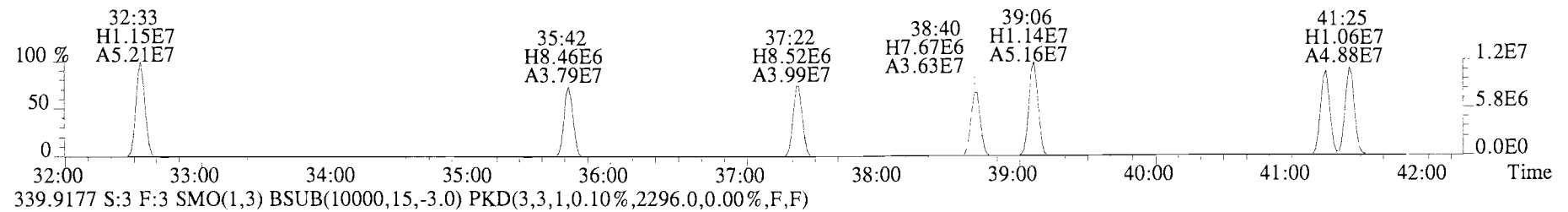
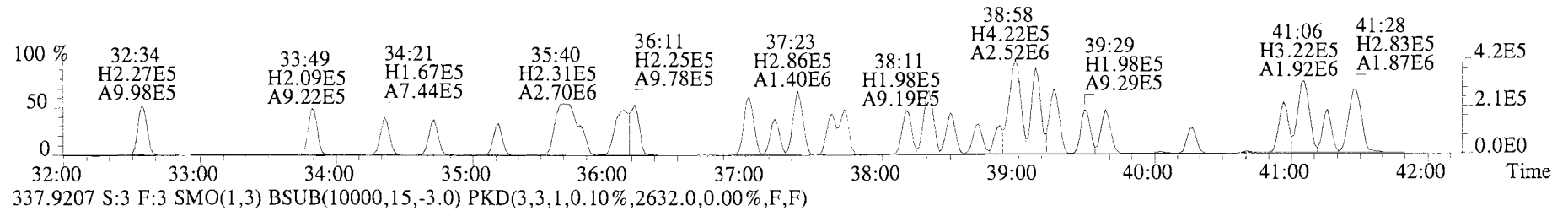
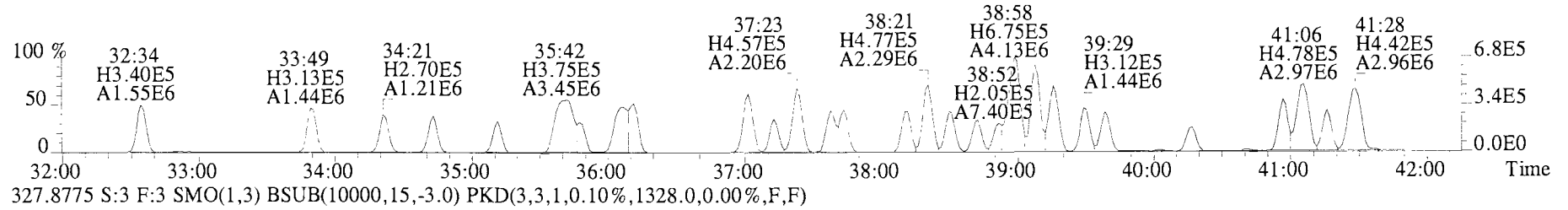
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9716.0,0.00%,F,F)



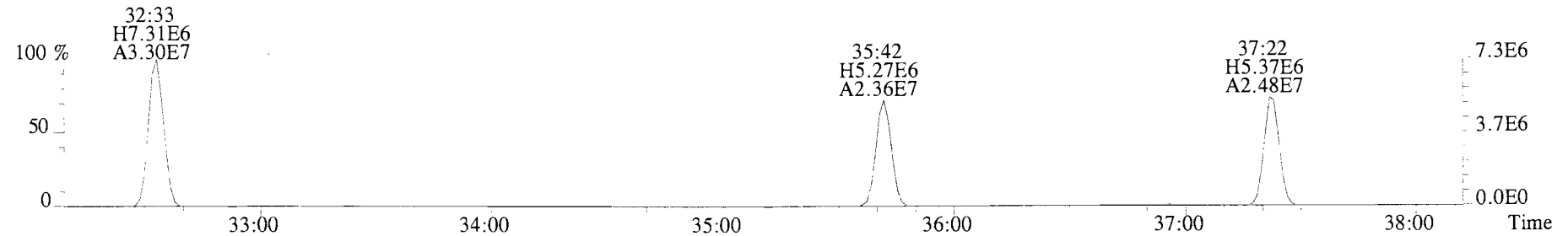
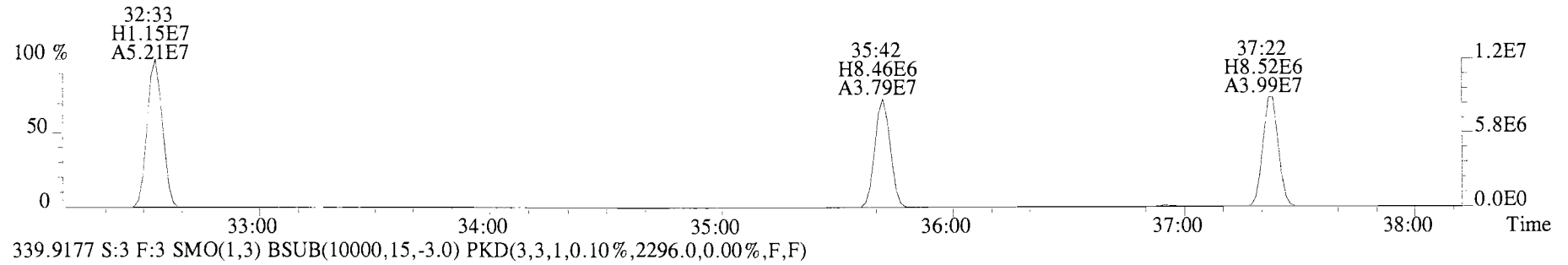
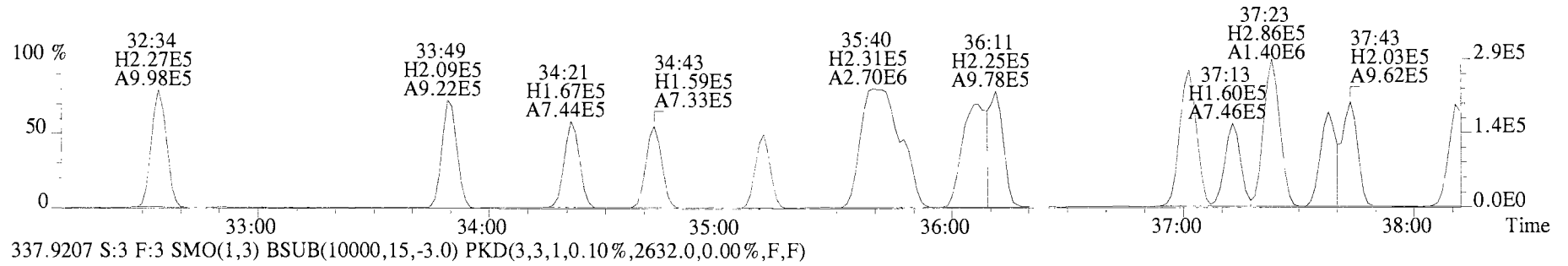
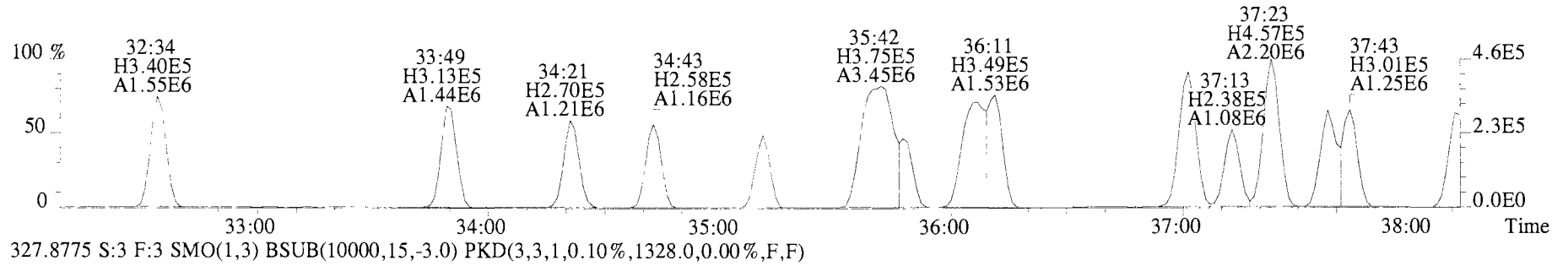
303.9597 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9480.0,0.00%,F,F)



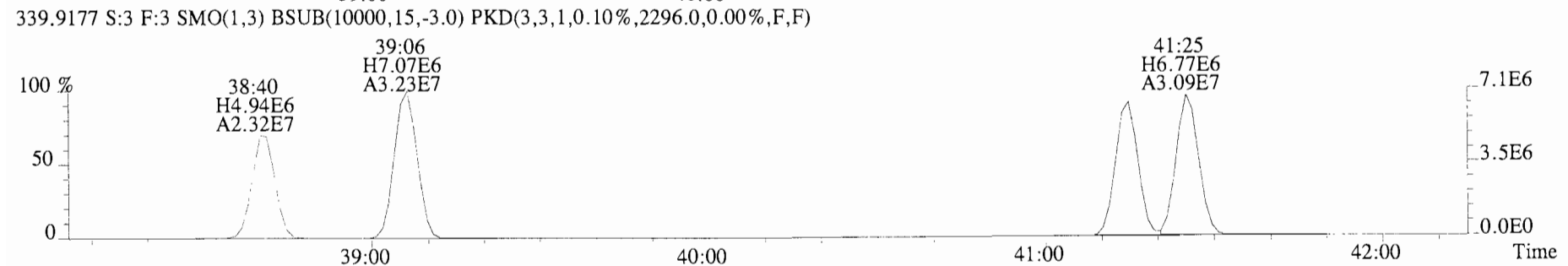
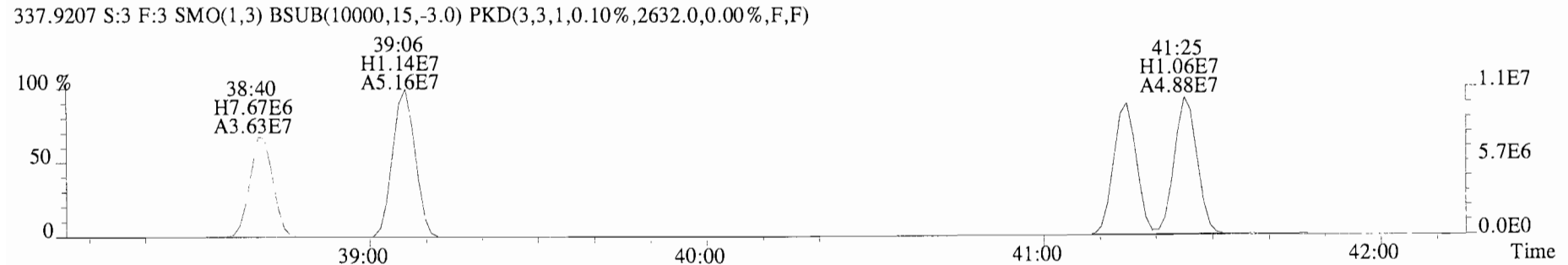
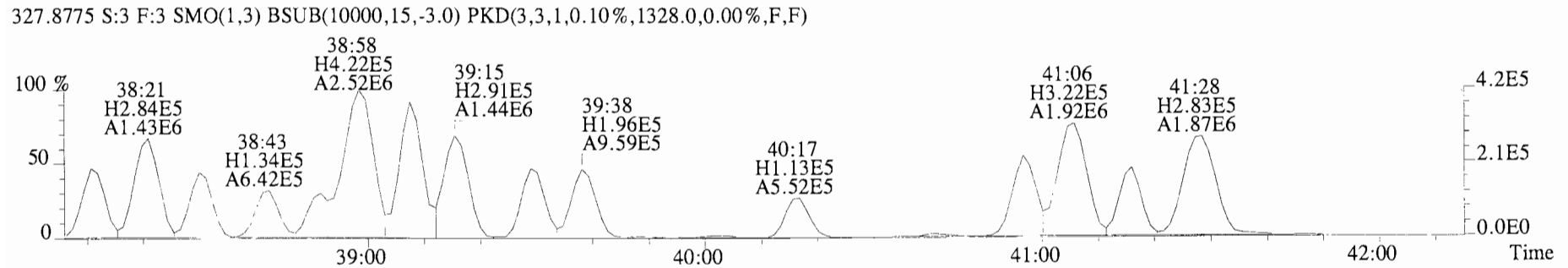
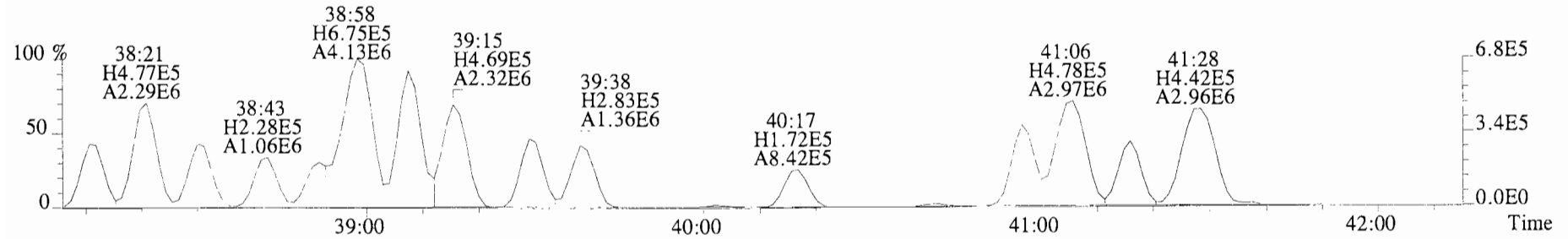
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



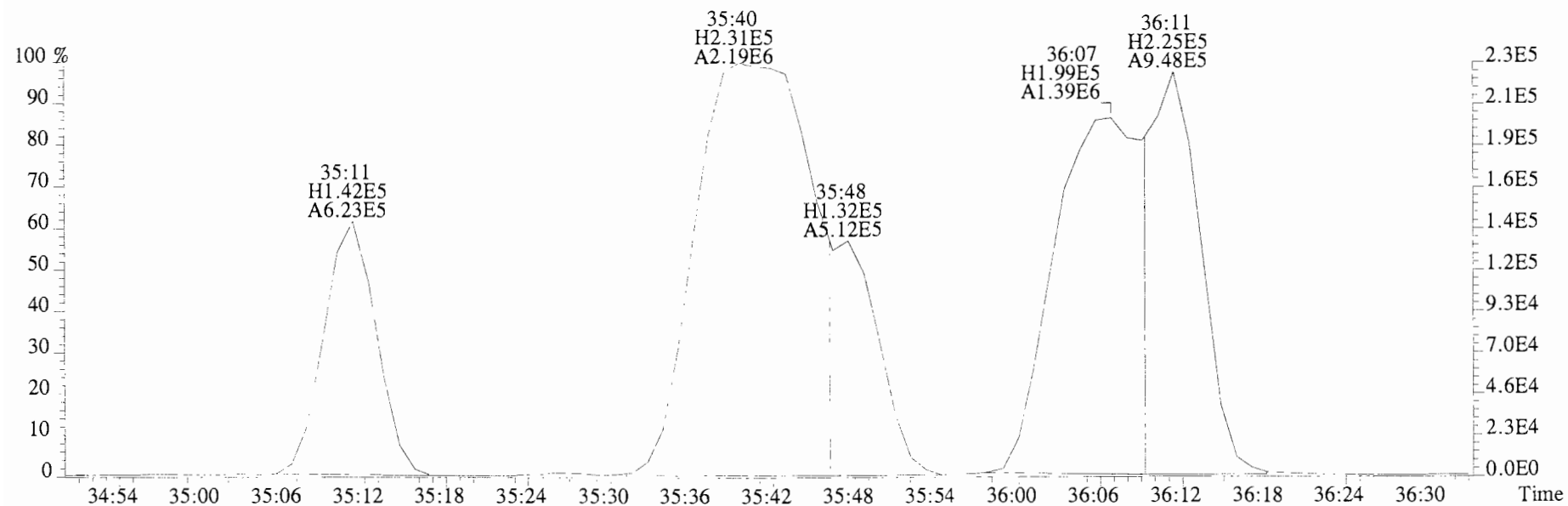
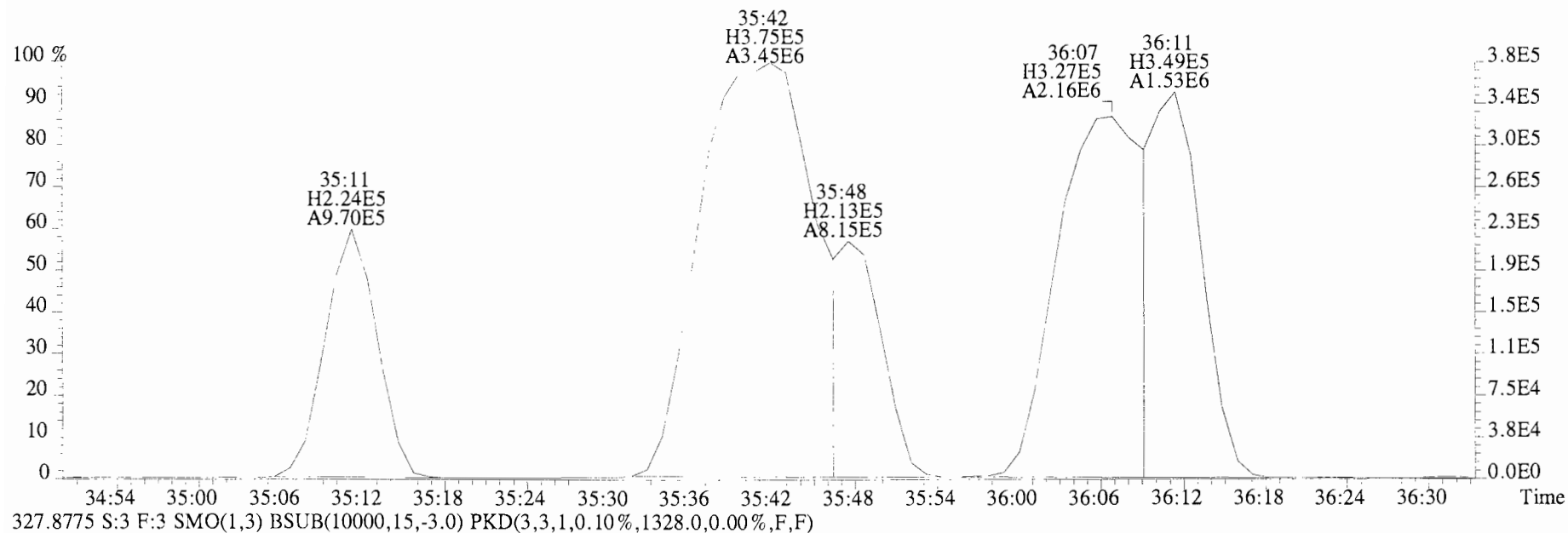
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



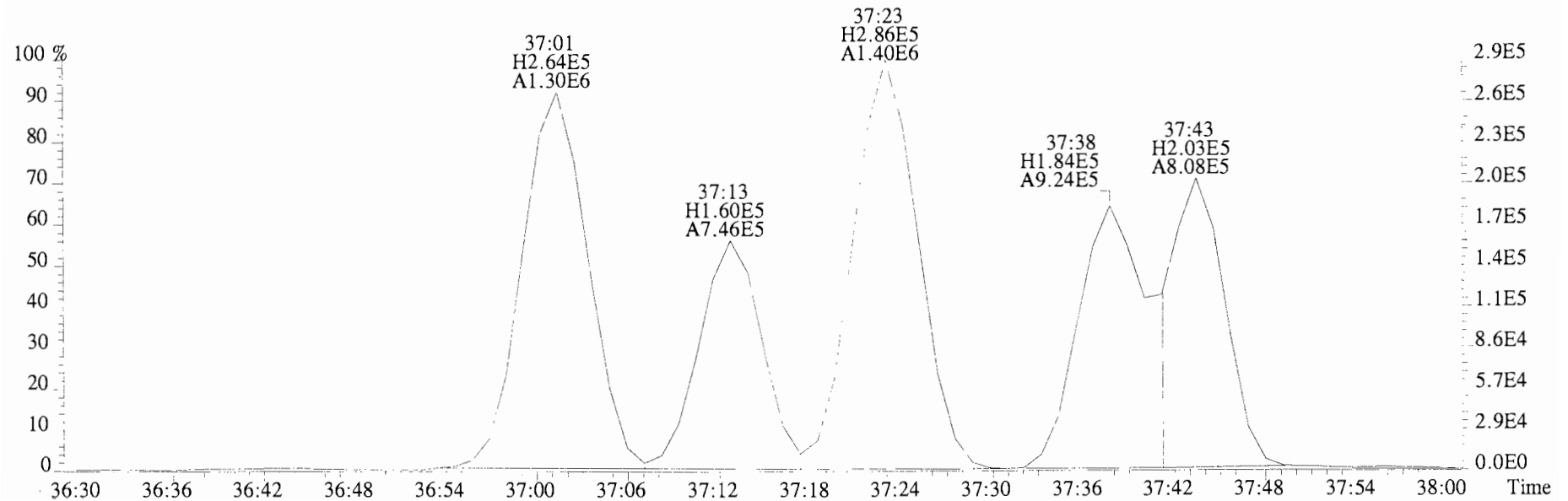
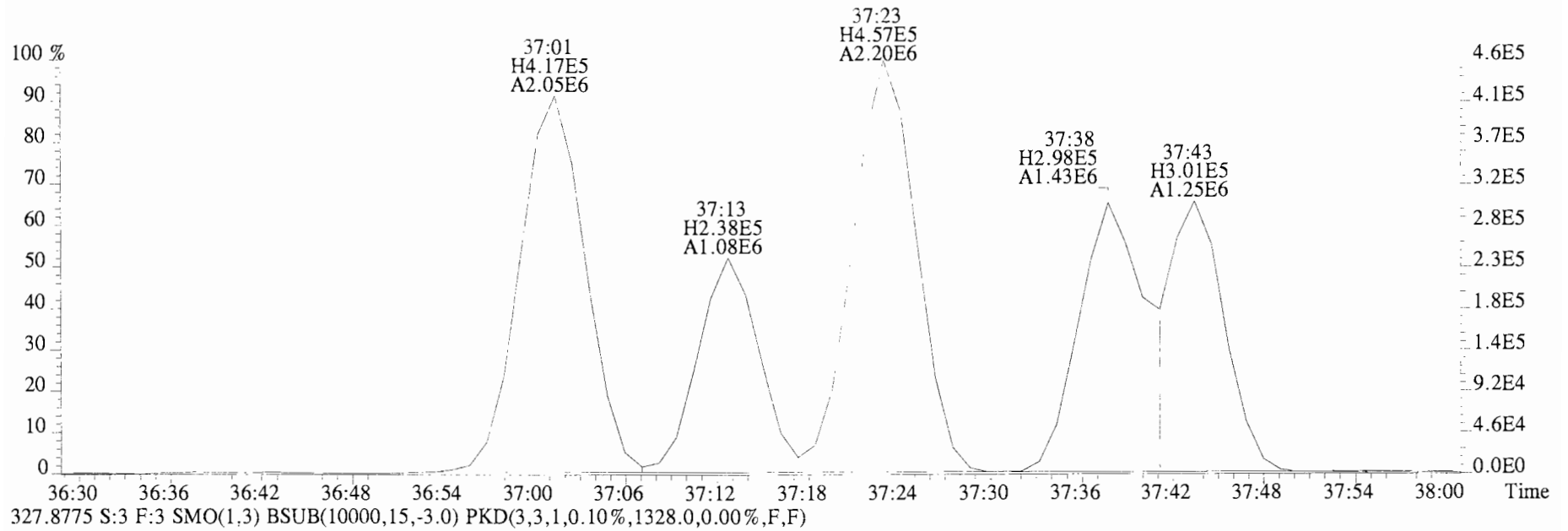
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



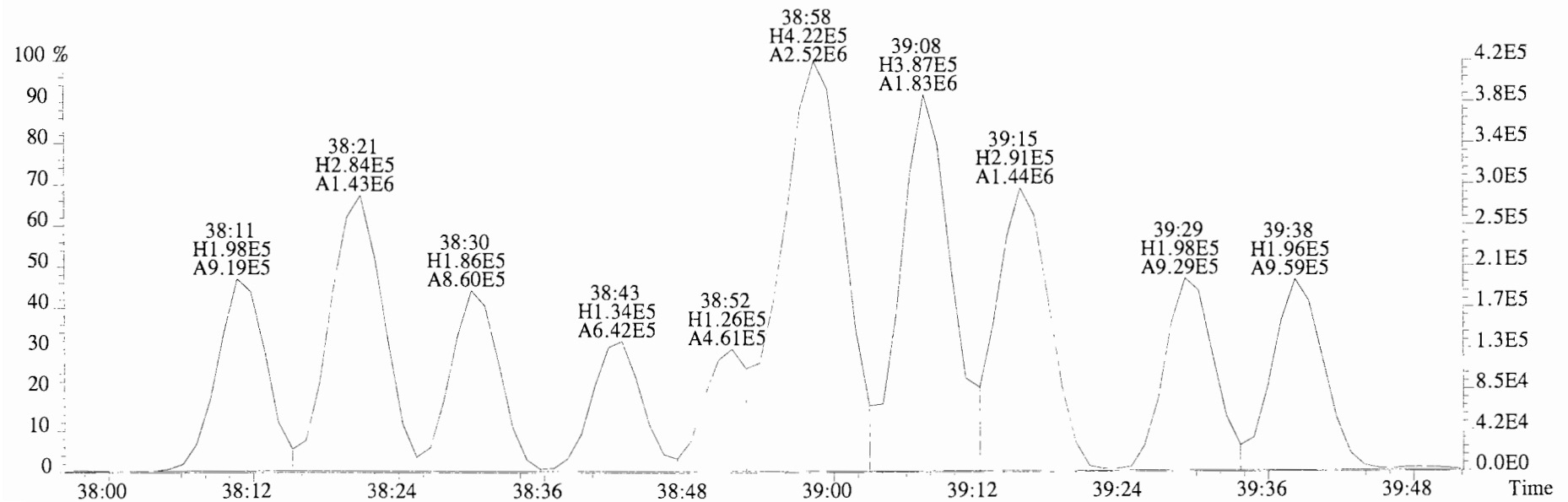
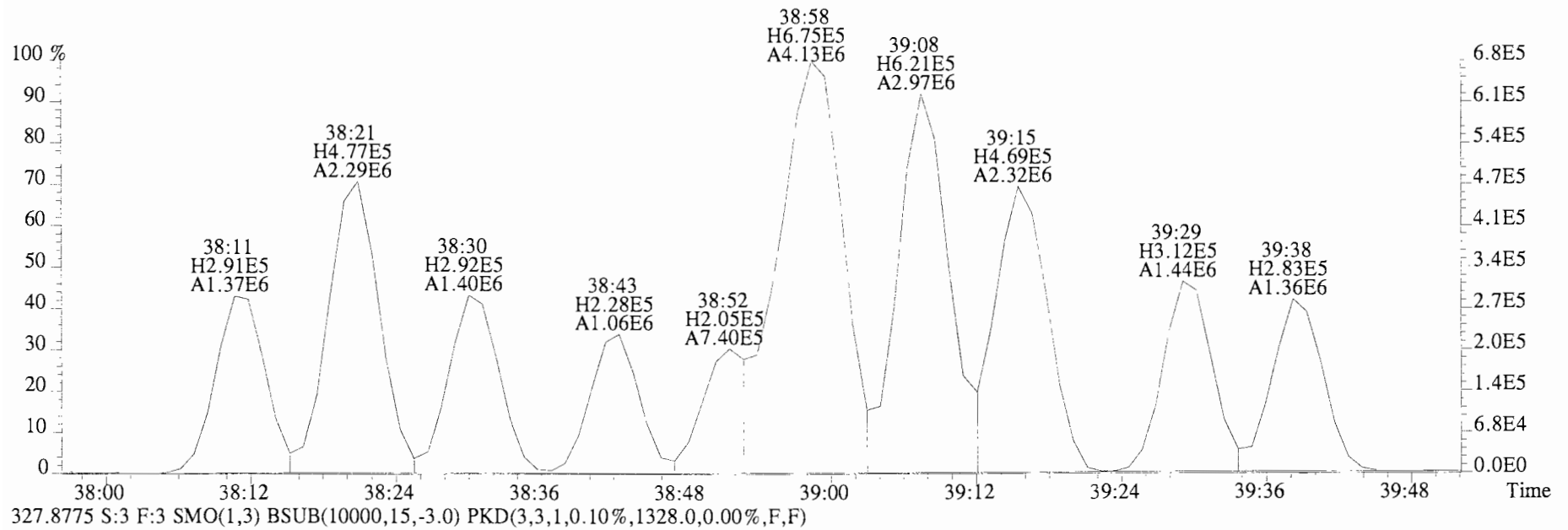
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



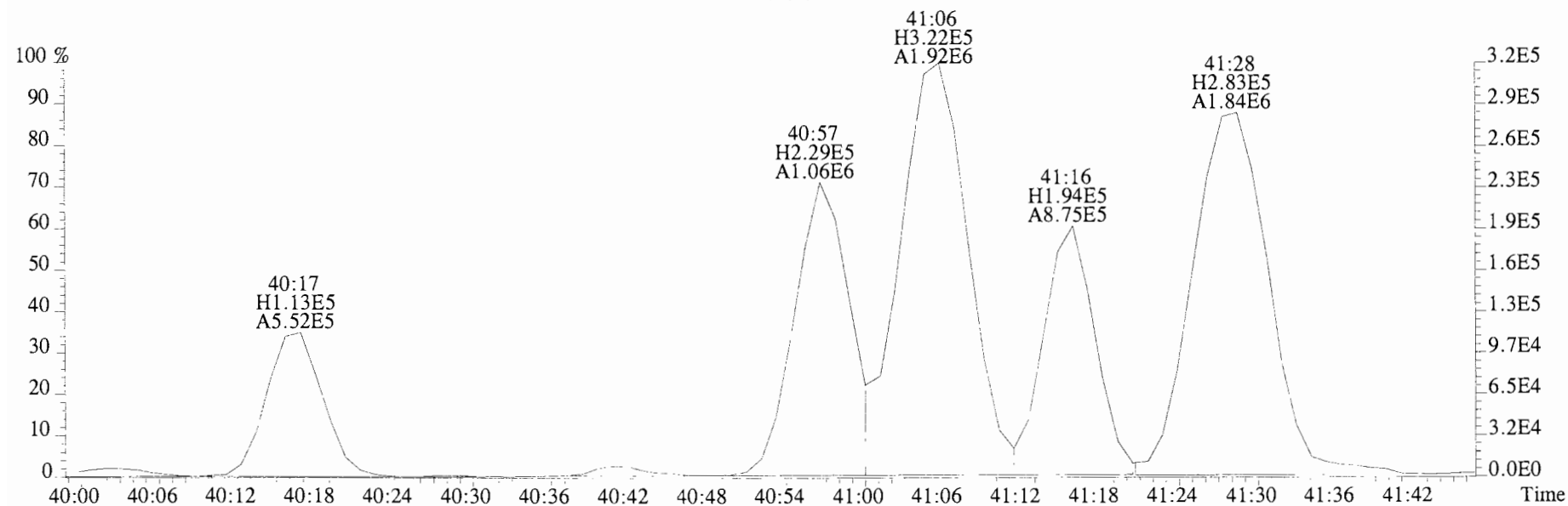
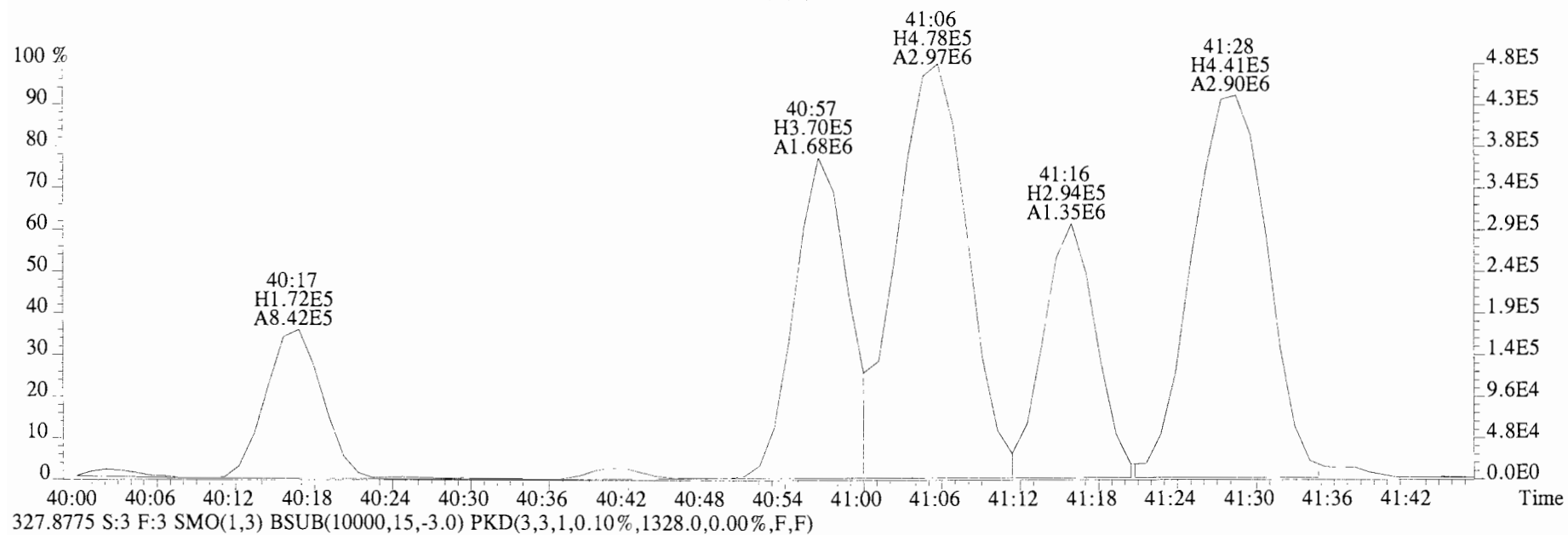
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)

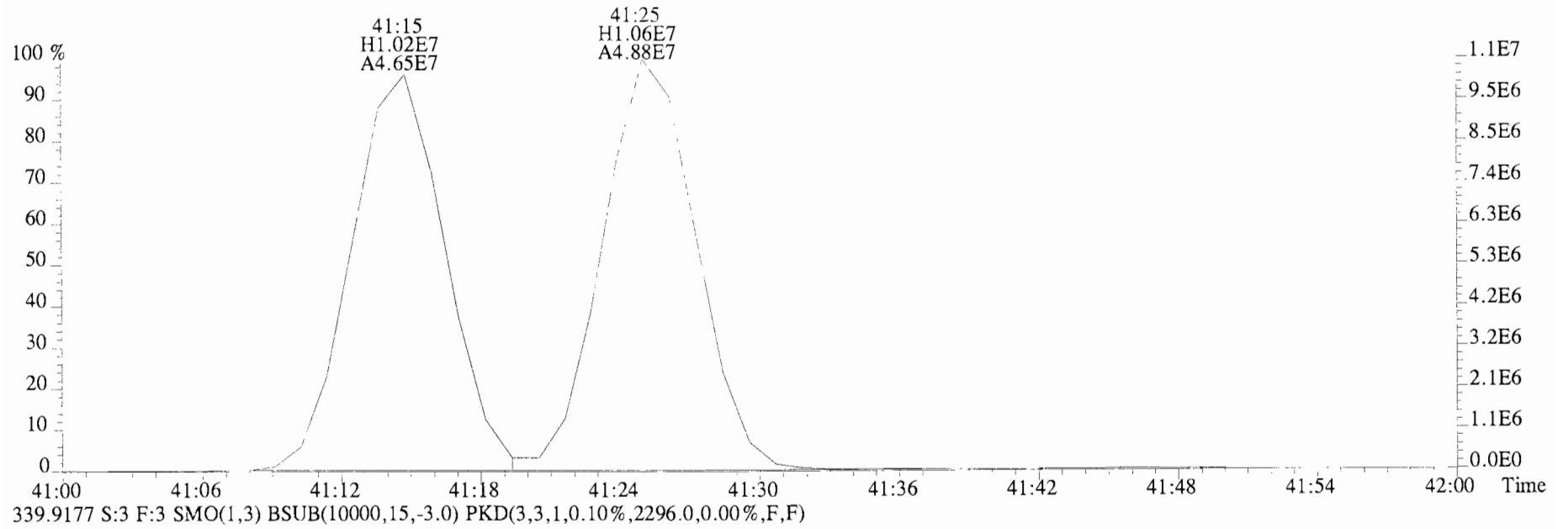


File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2052.0,0.00%,F,F)

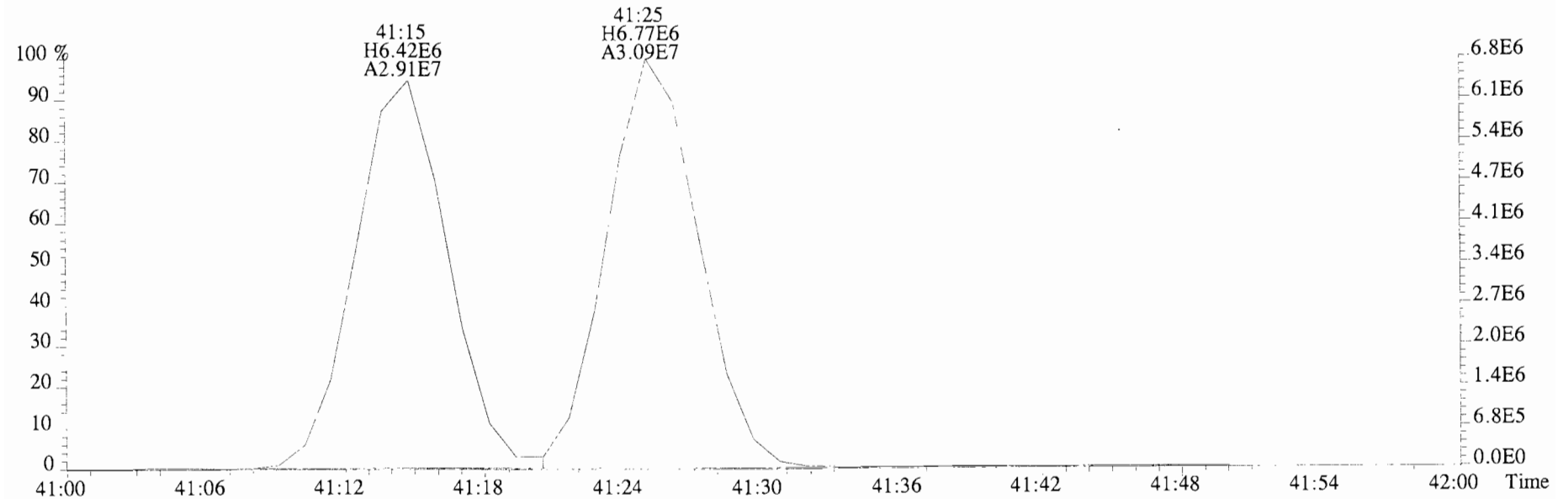




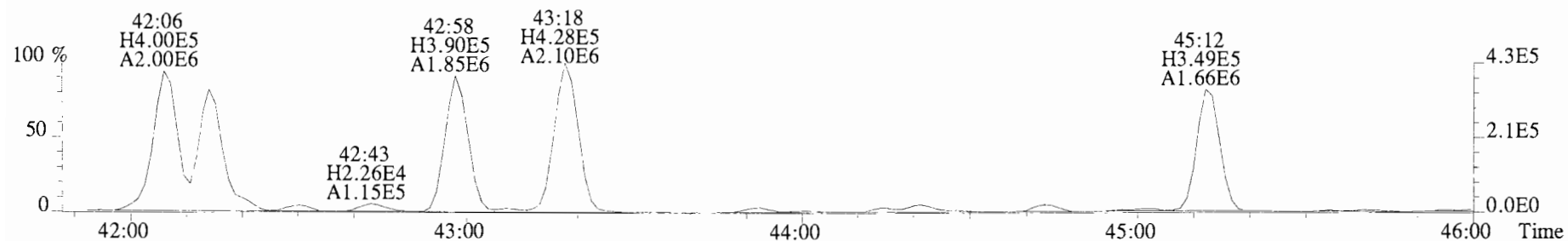
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2632.0,0.00%,F,F)



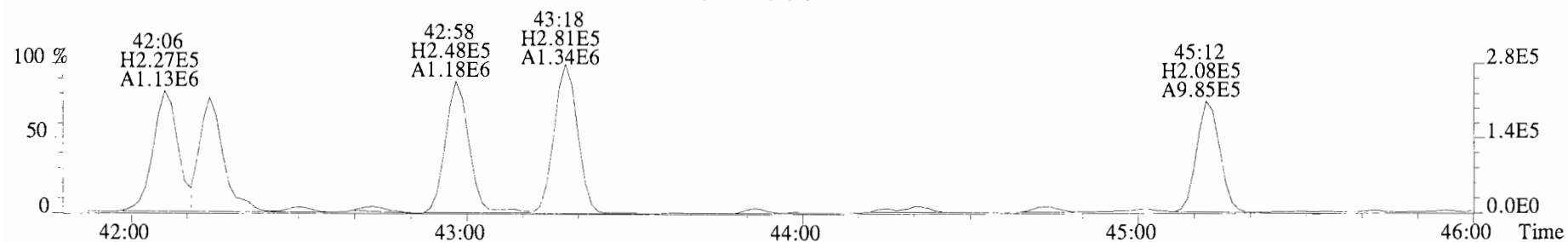
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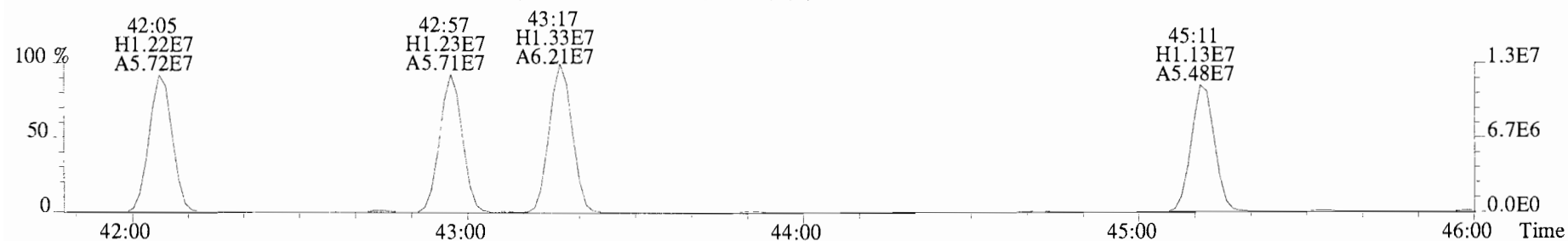
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2164.0,0.00%,F,F)



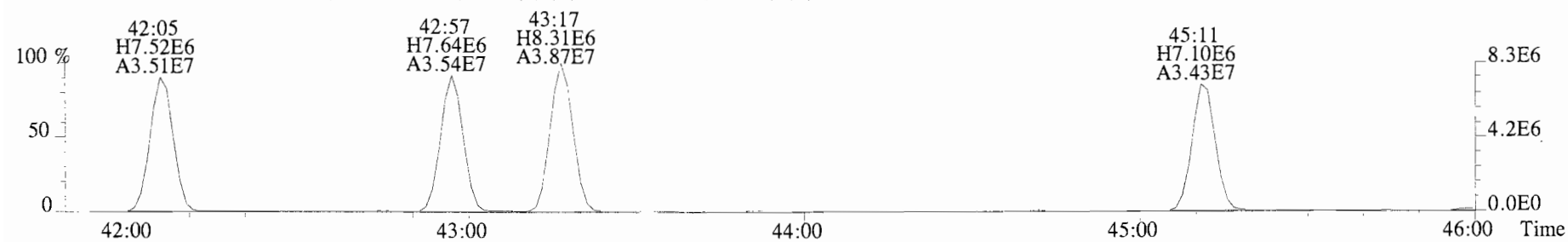
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2680.0,0.00%,F,F)



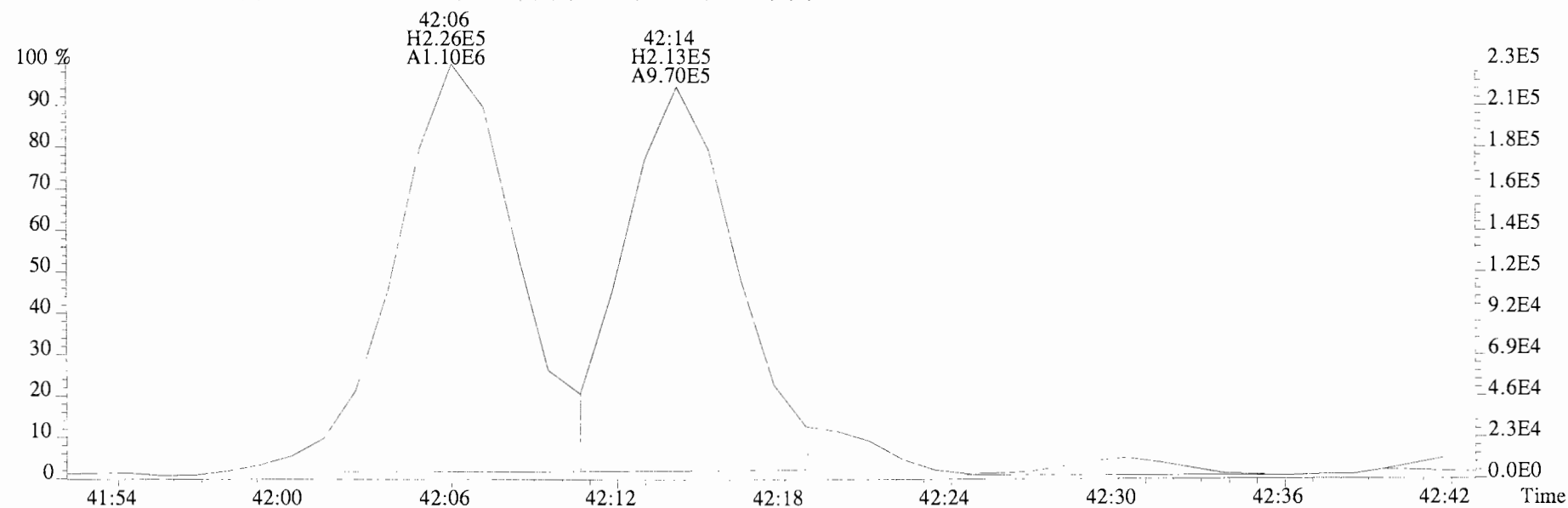
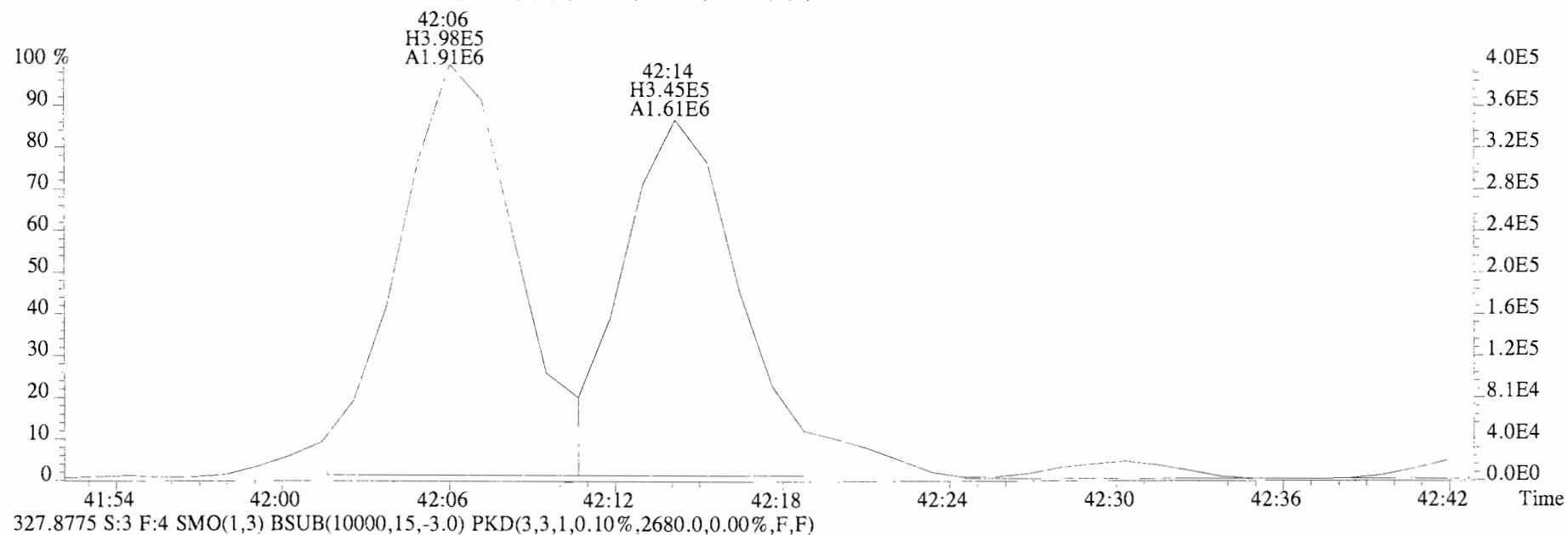
337.9207 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7624.0,0.00%,F,F)



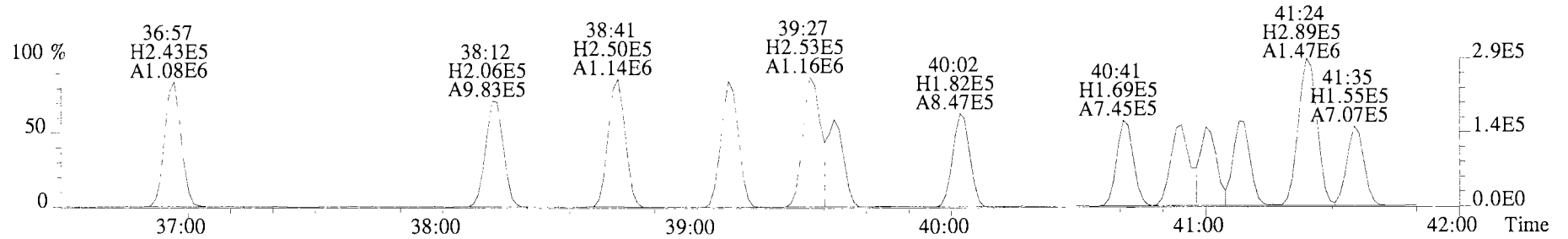
339.9177 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6836.0,0.00%,F,F)



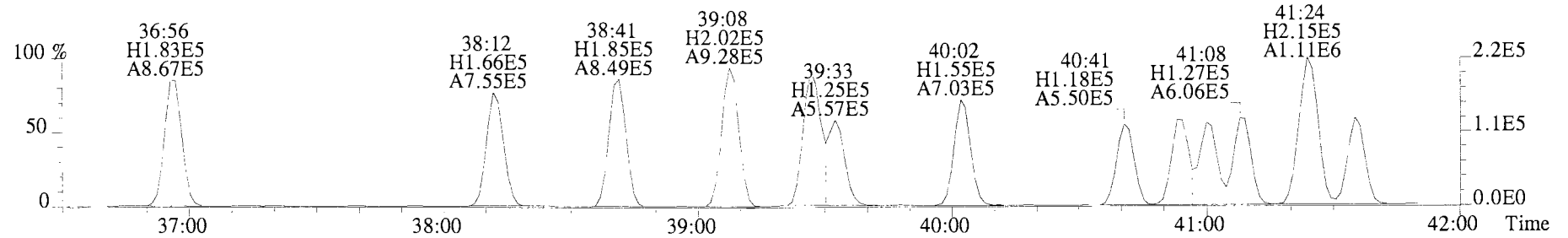
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2164.0,0.00%,F,F)



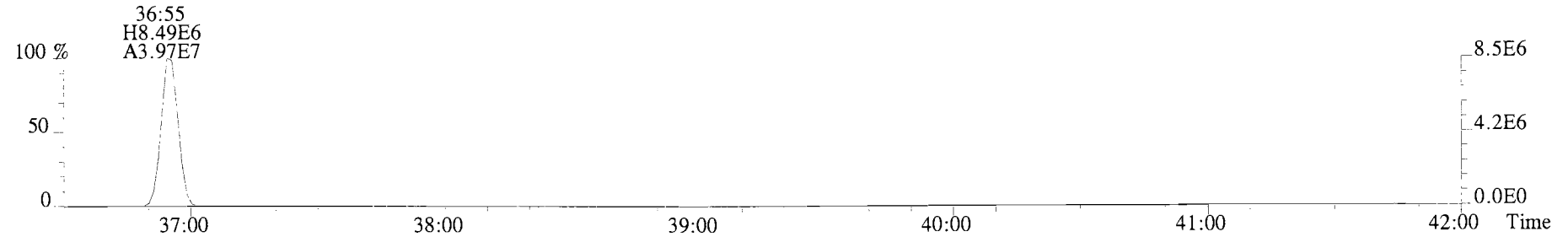
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1464.0,0.00%,F,F)



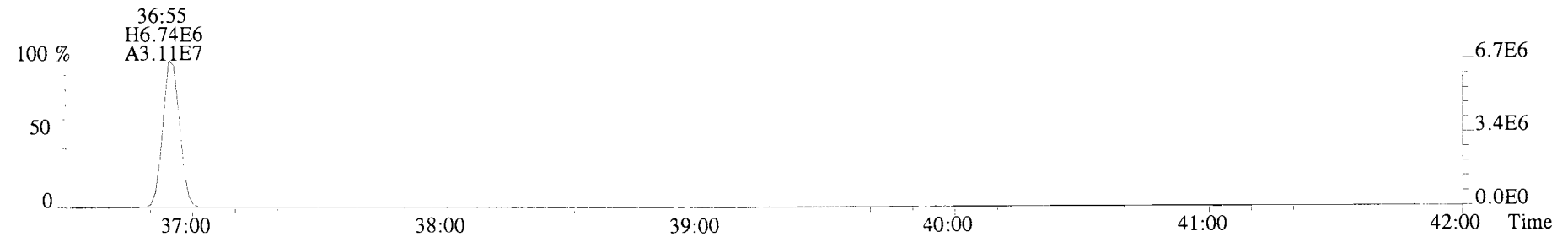
361.8385 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1396.0,0.00%,F,F)



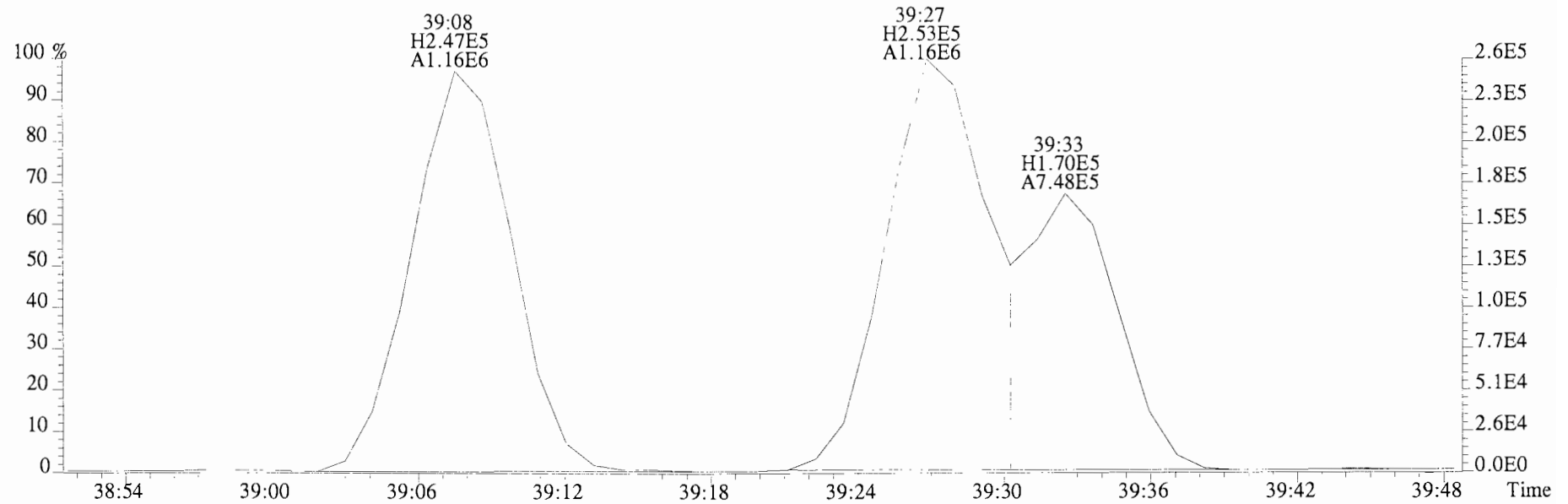
371.8817 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)



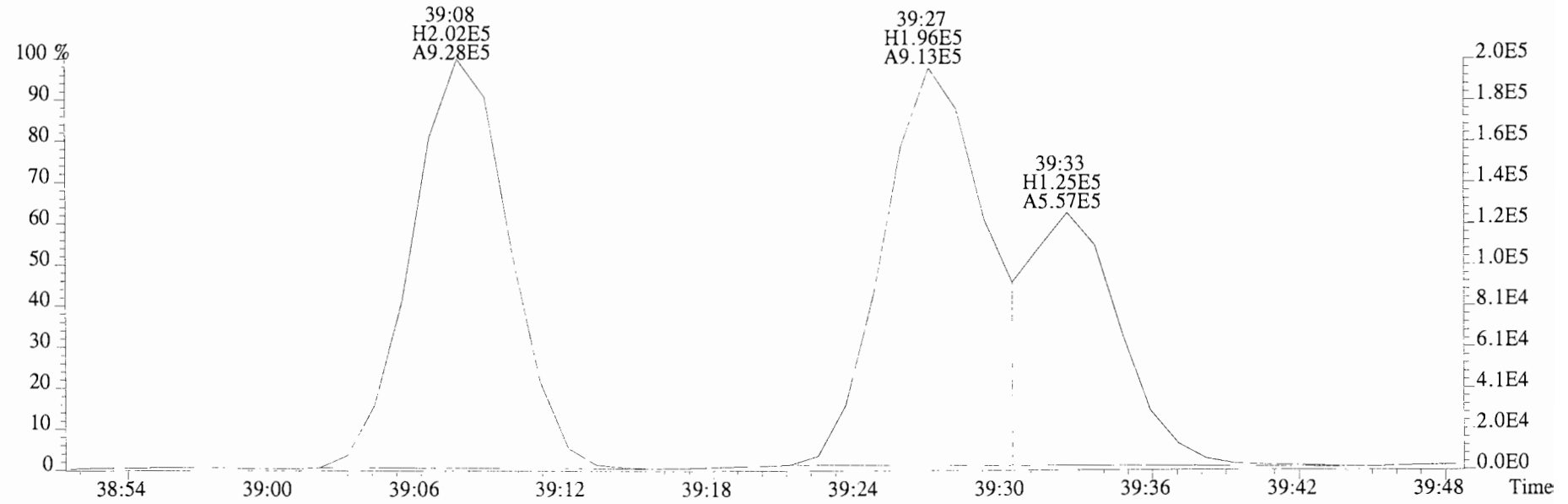
373.8788 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1756.0,0.00%,F,F)



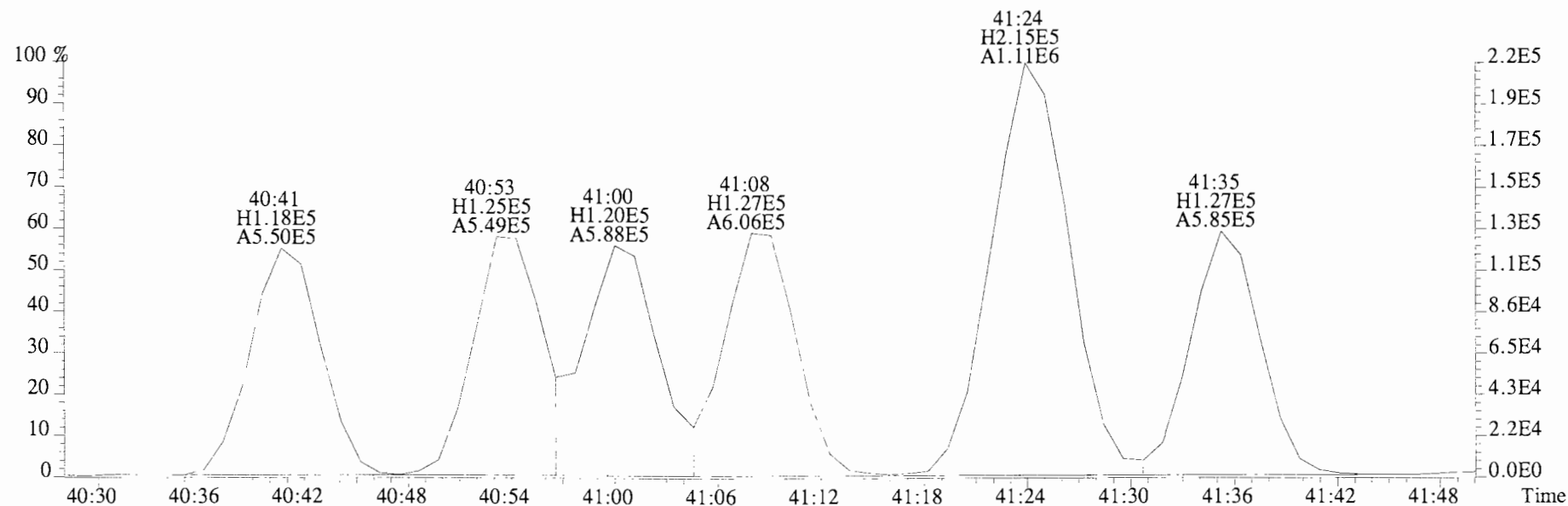
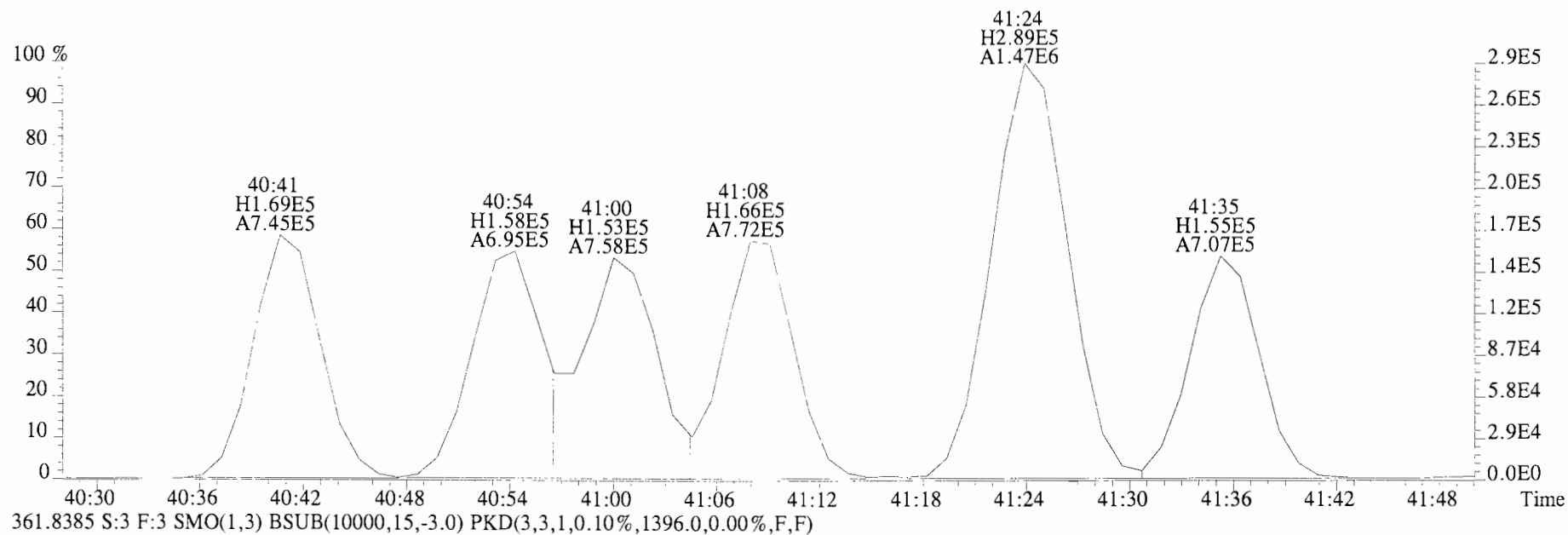
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1464.0,0.00%,F,F)



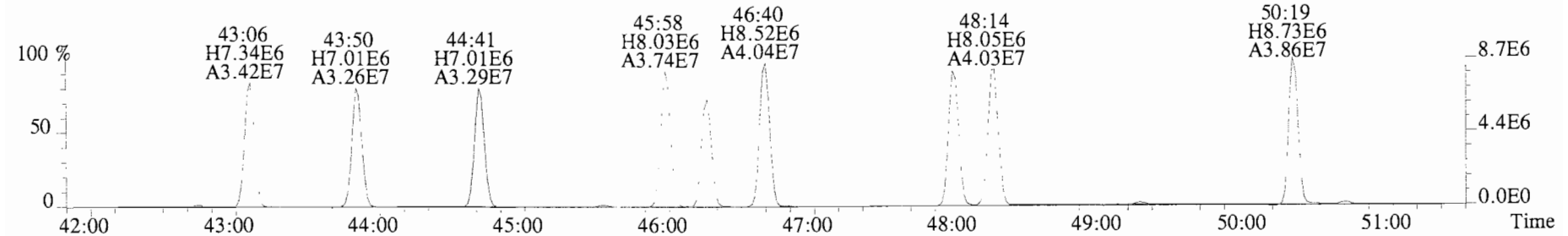
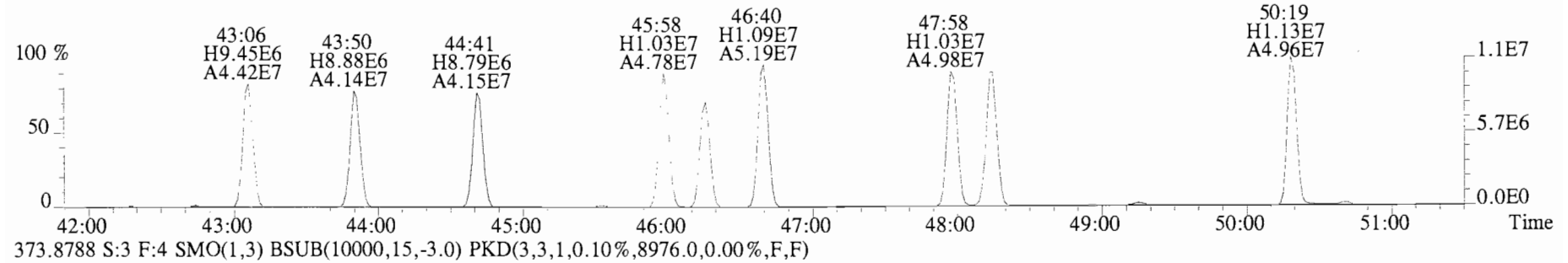
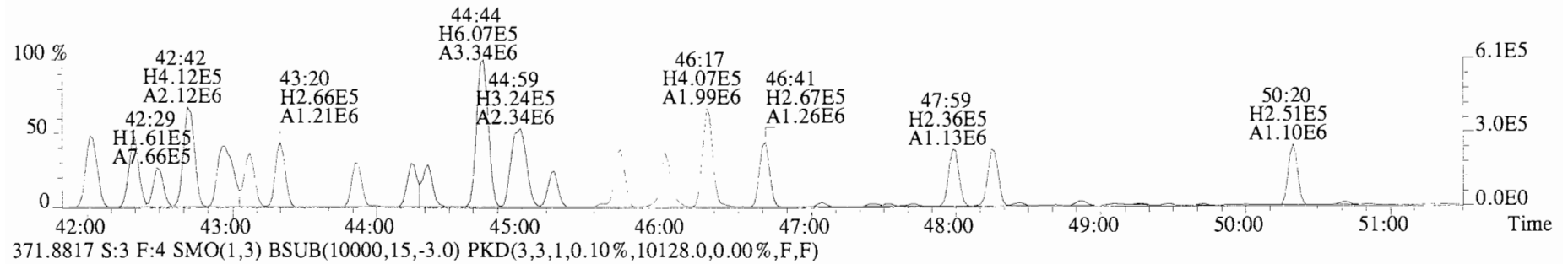
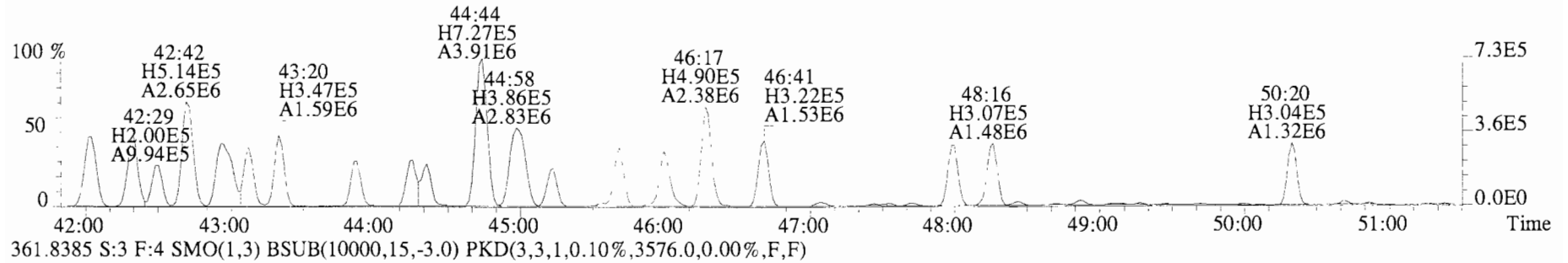
361.8385 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1396.0,0.00%,F,F)



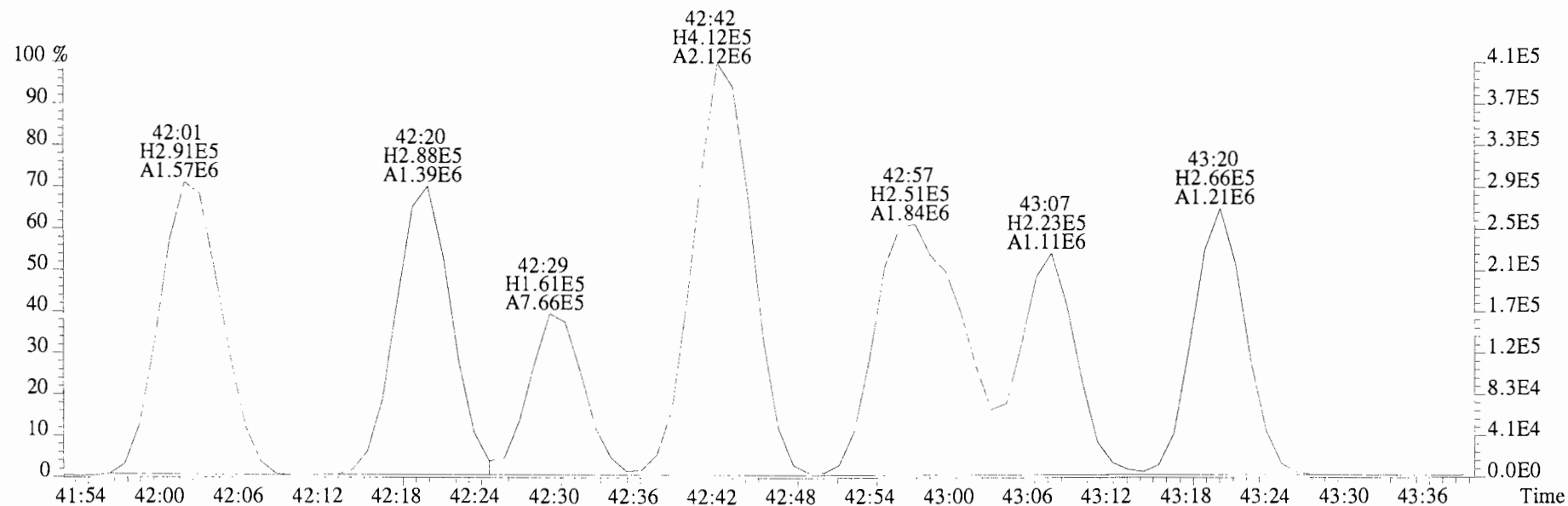
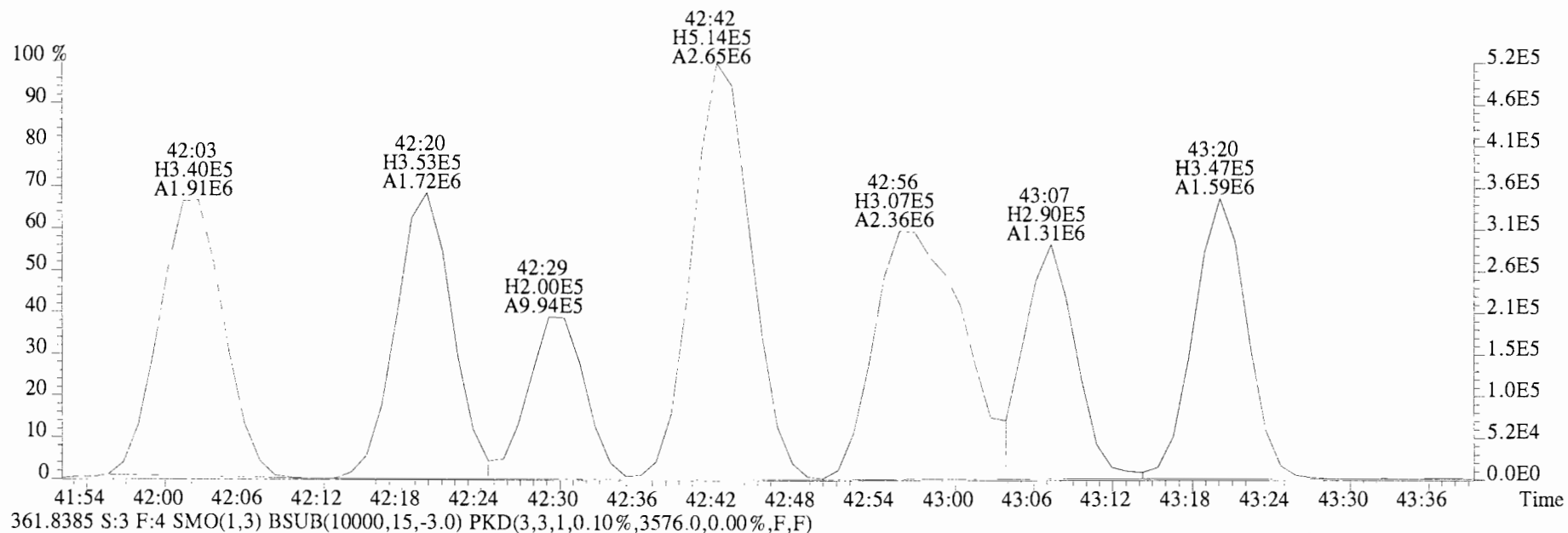
File:140623E2 #1-760 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
 359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1464.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3364.0,0.00%,F,F)

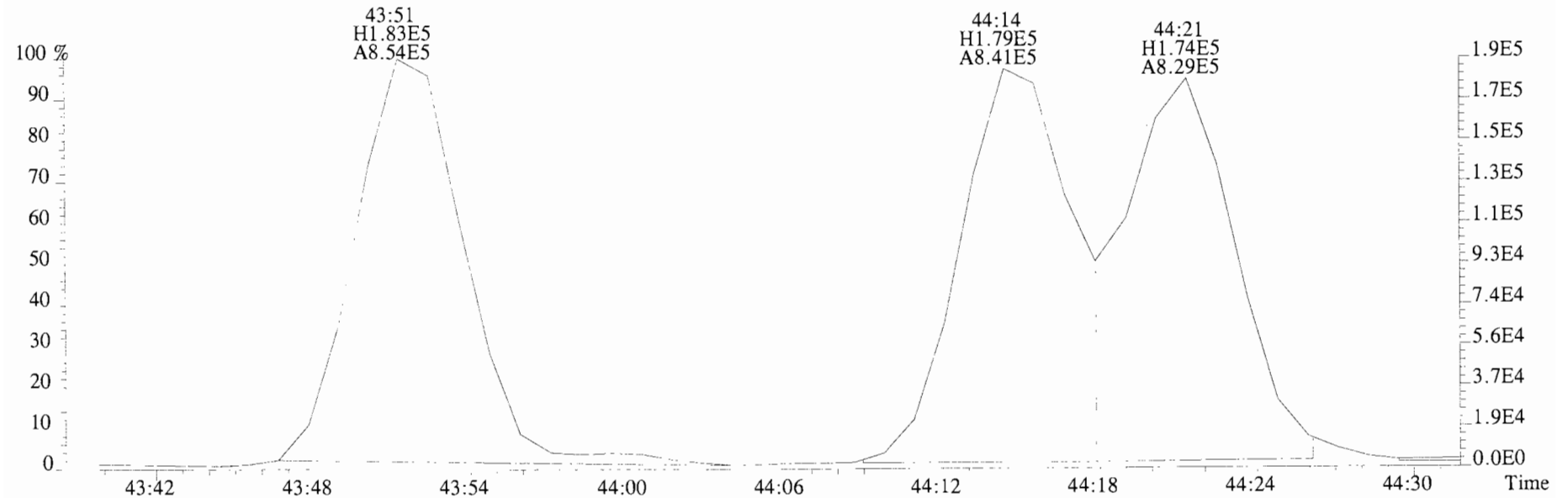
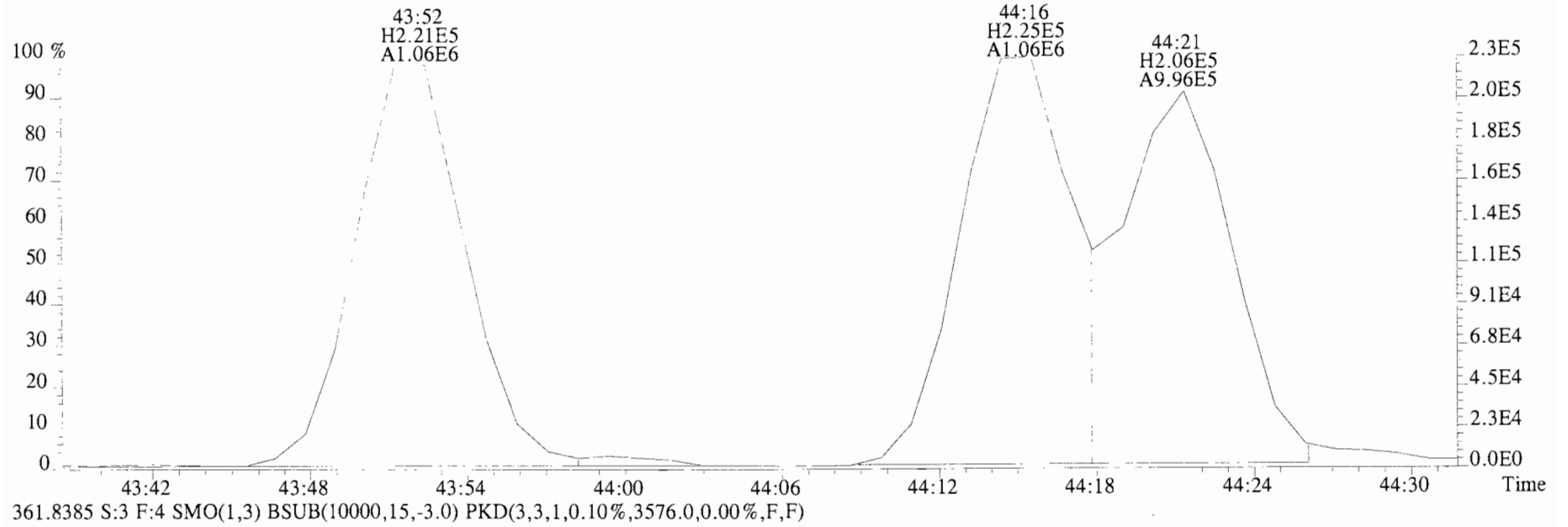


File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
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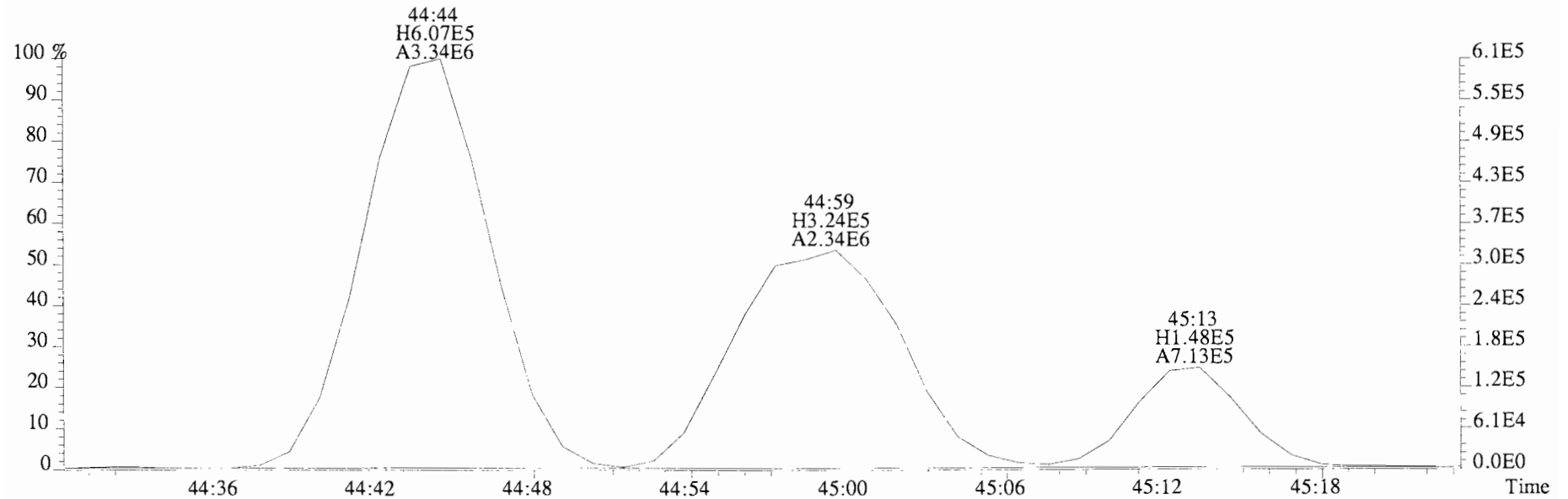
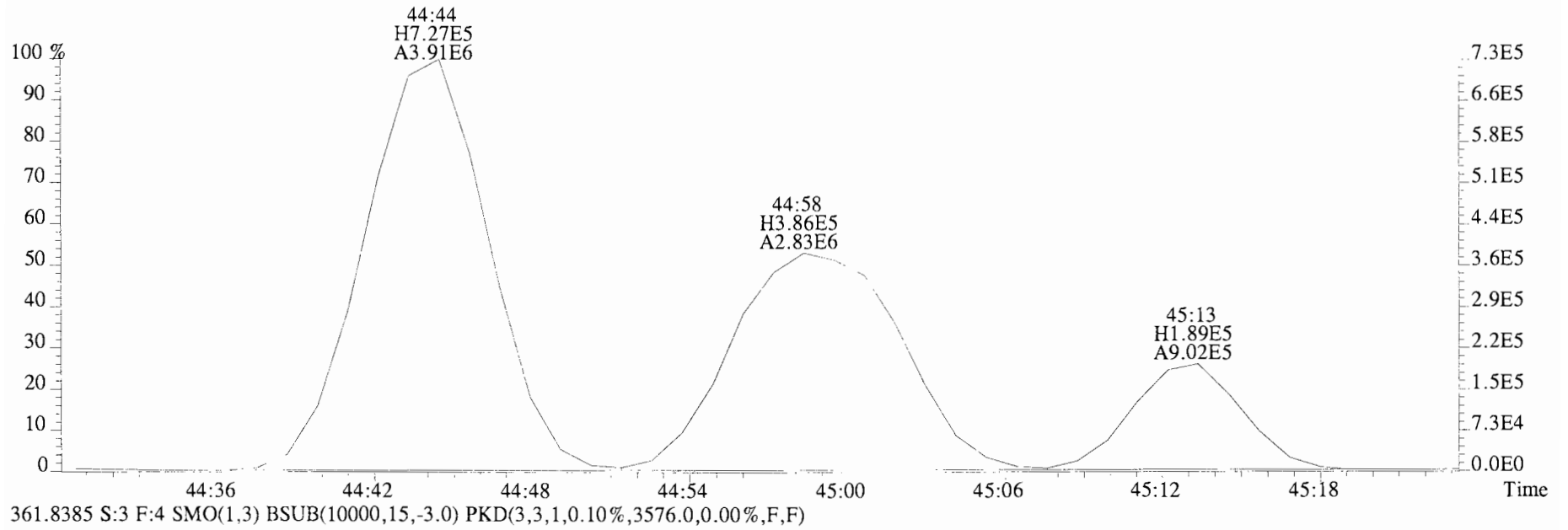




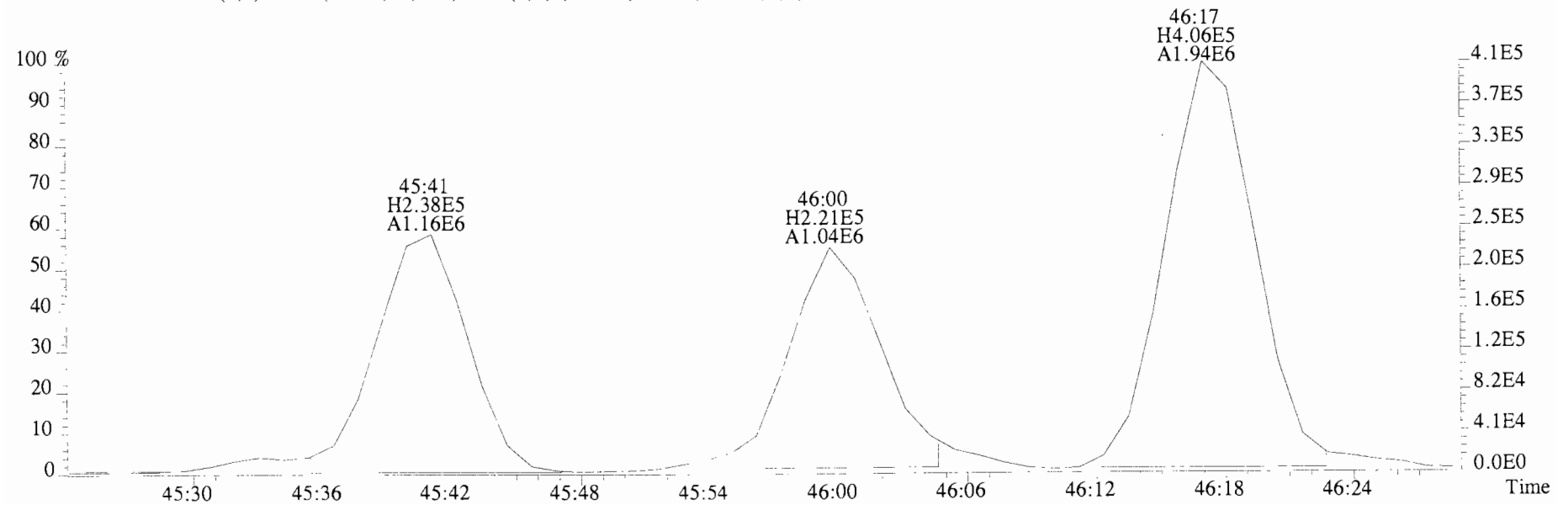
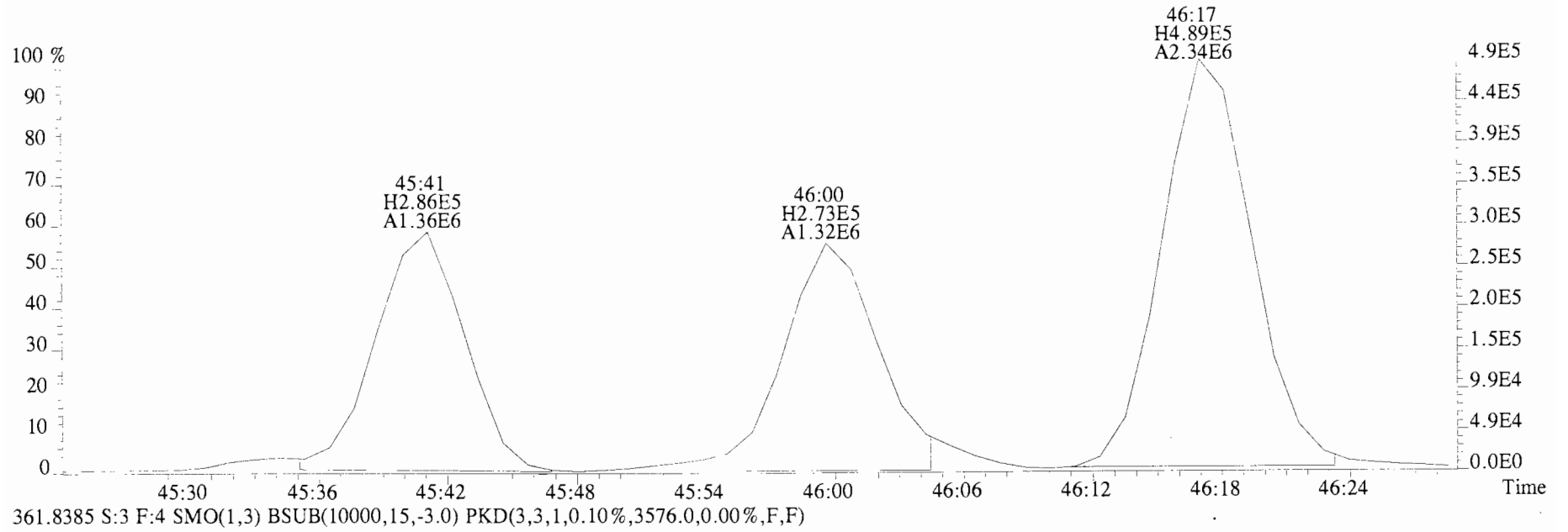
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3364.0,0.00%,F,F)



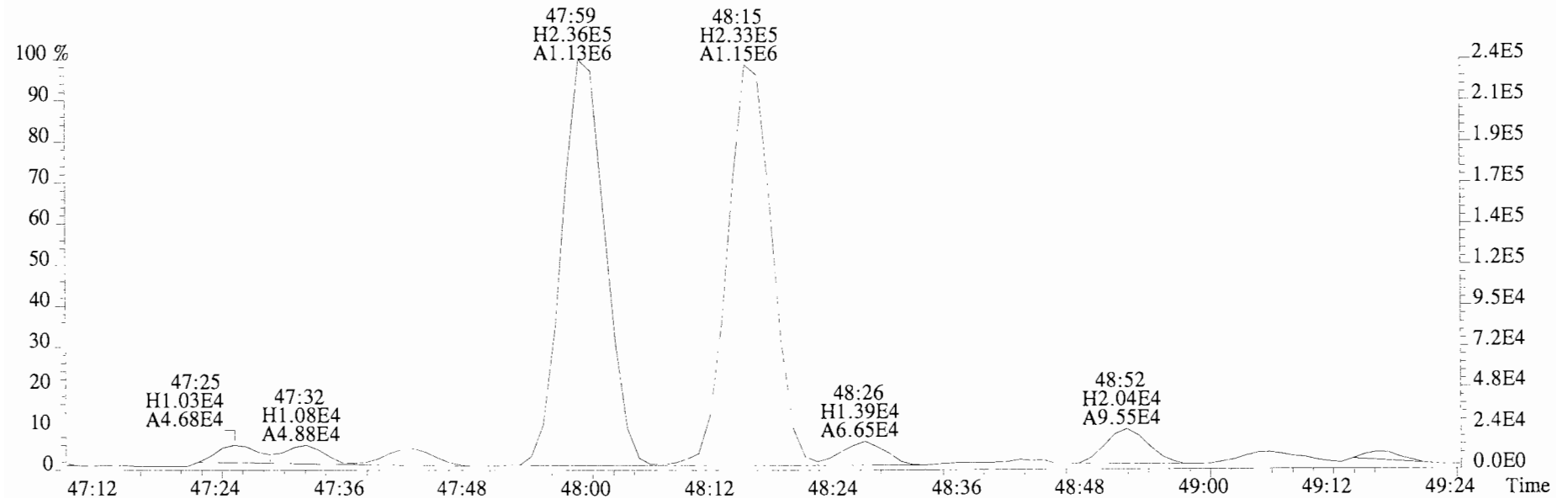
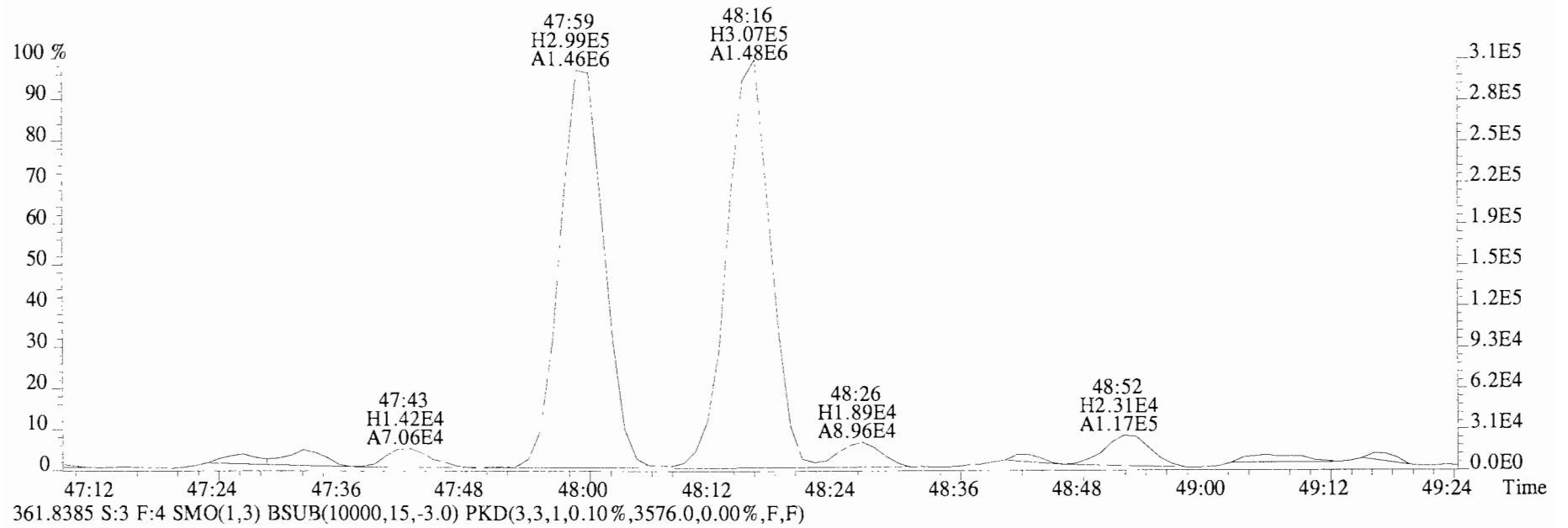
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
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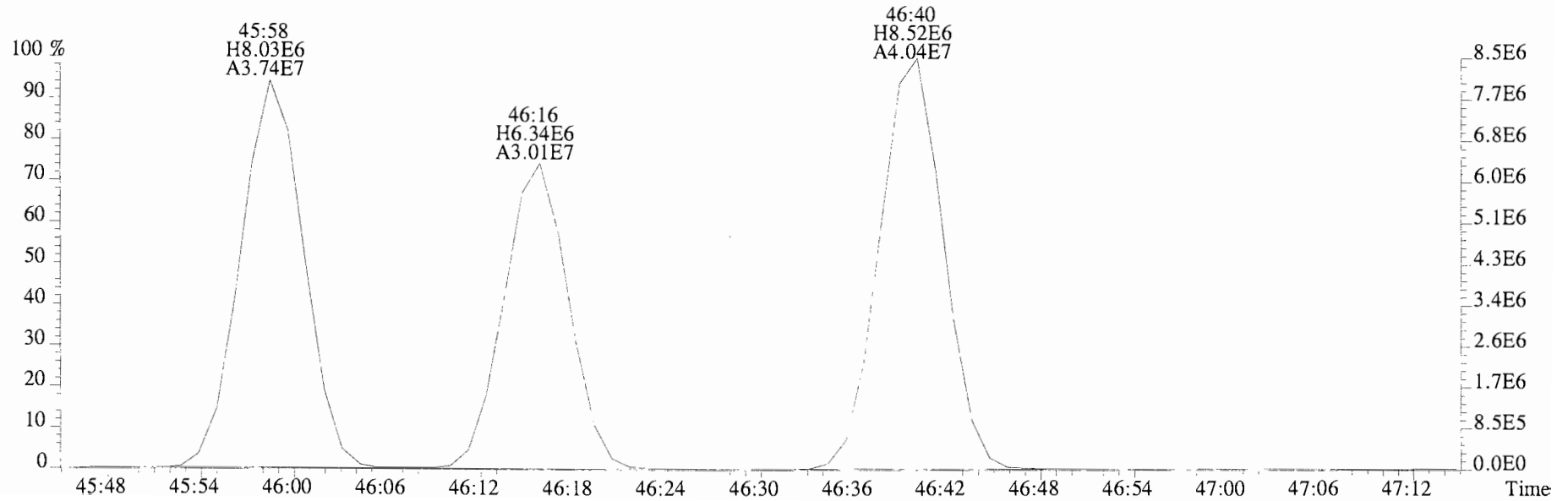
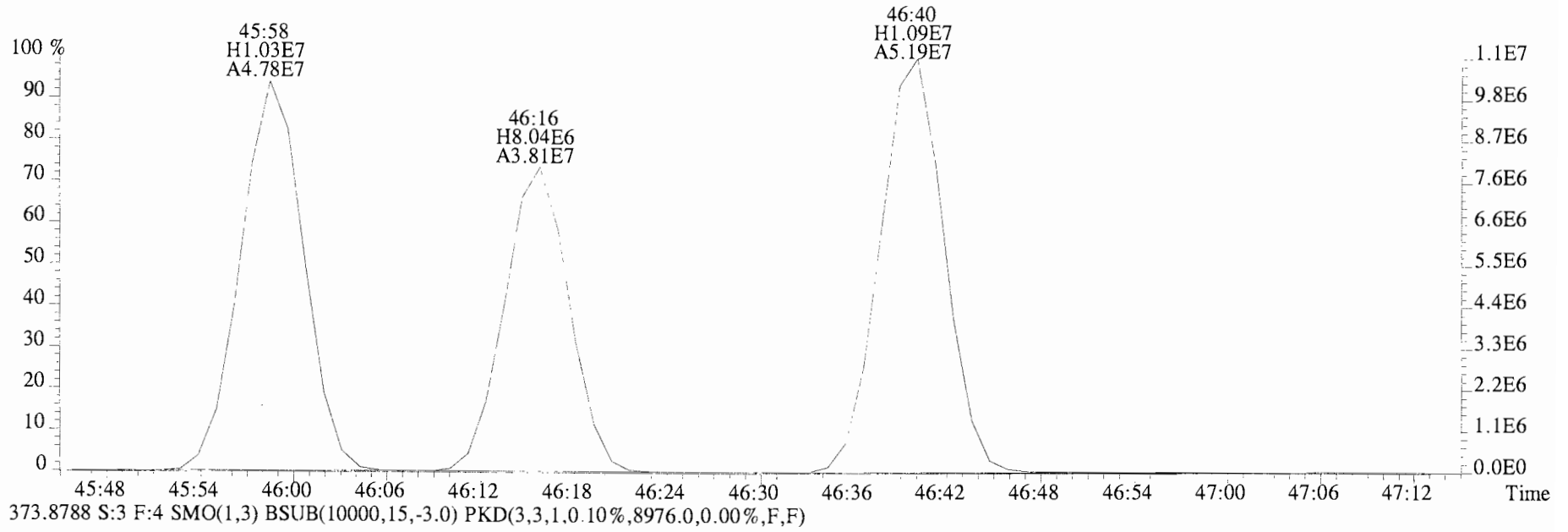
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3364.0,0.00%,F,F)



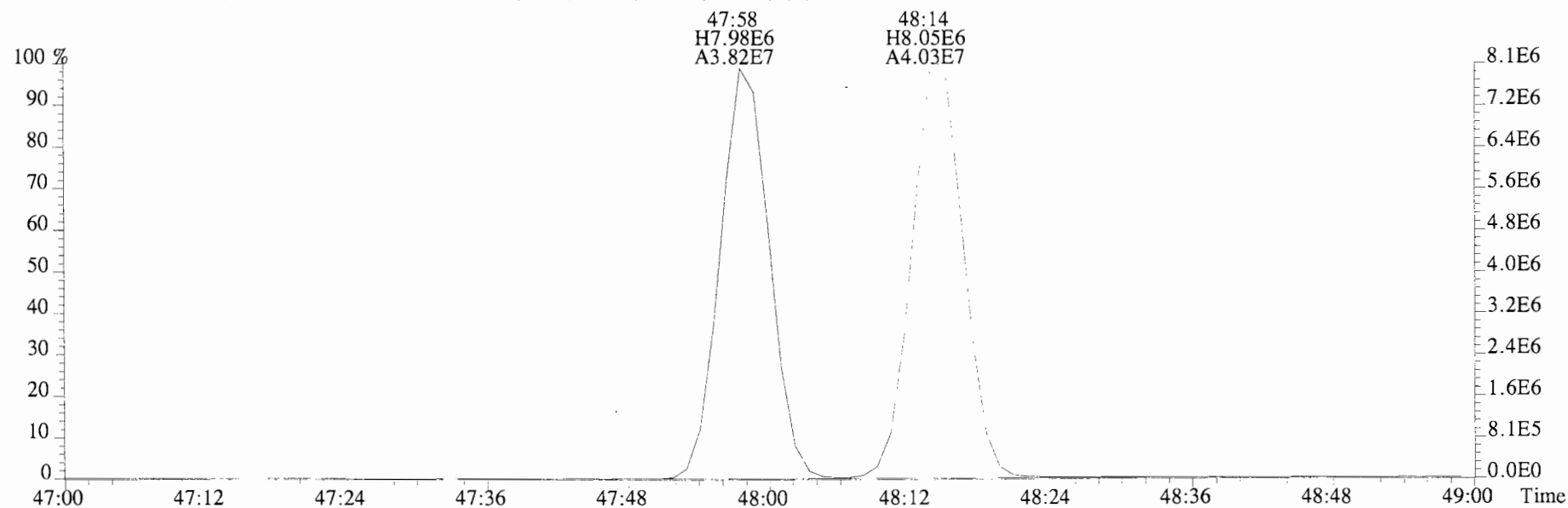
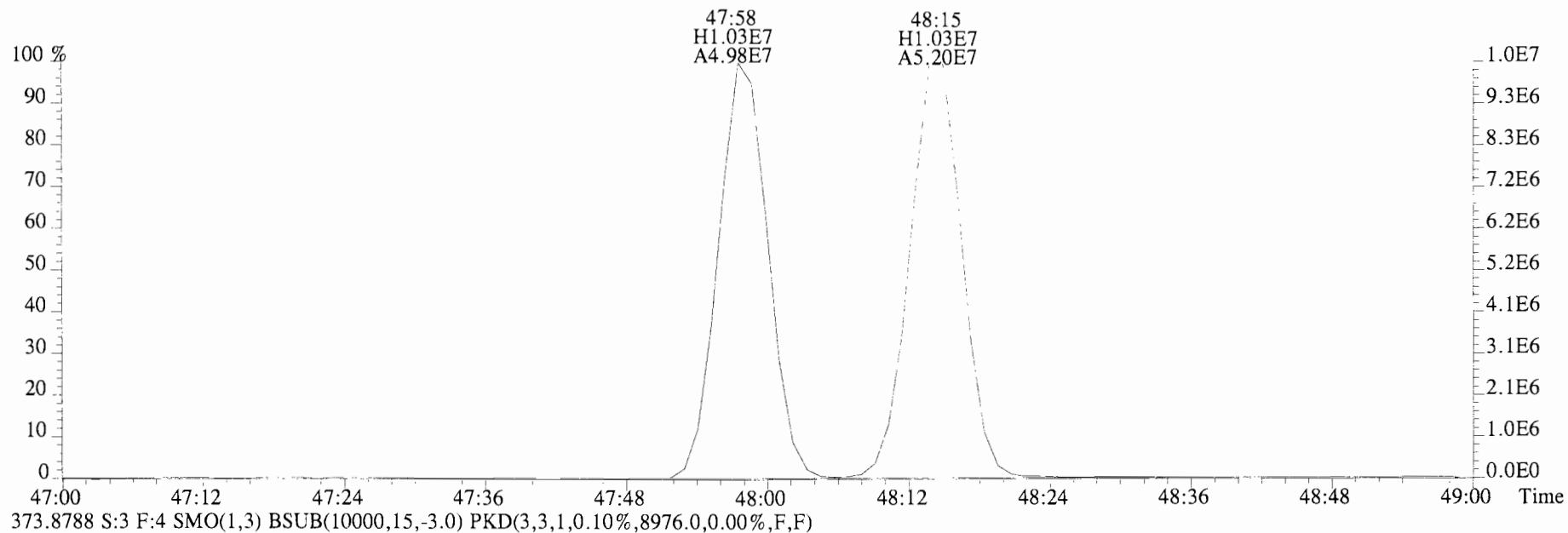
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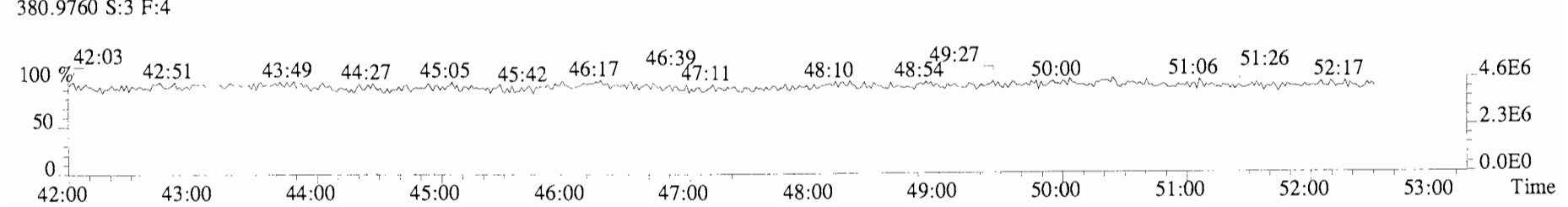
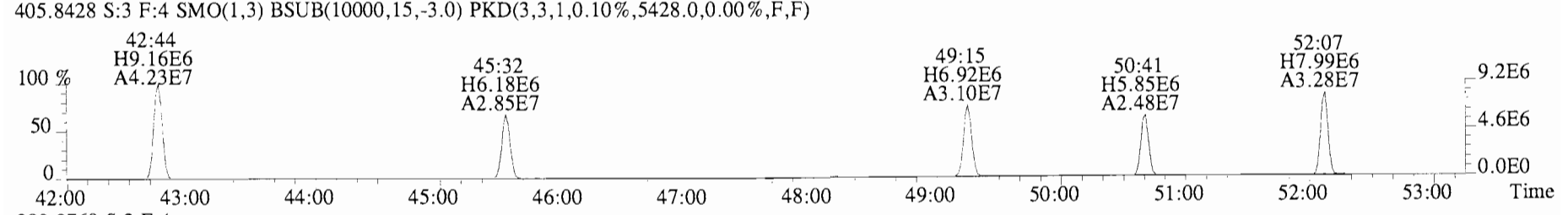
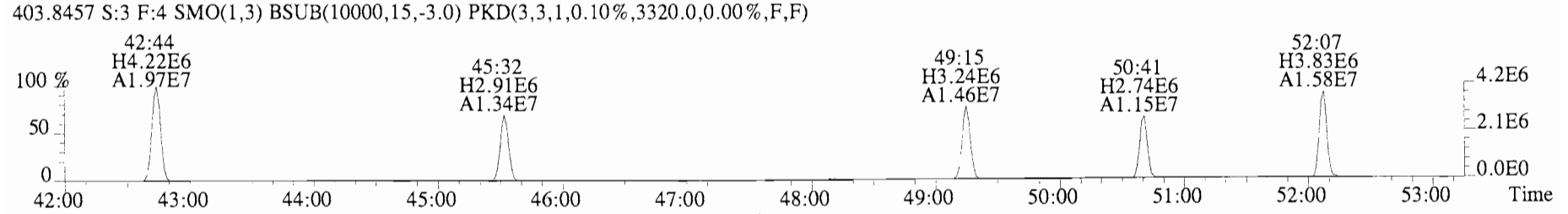
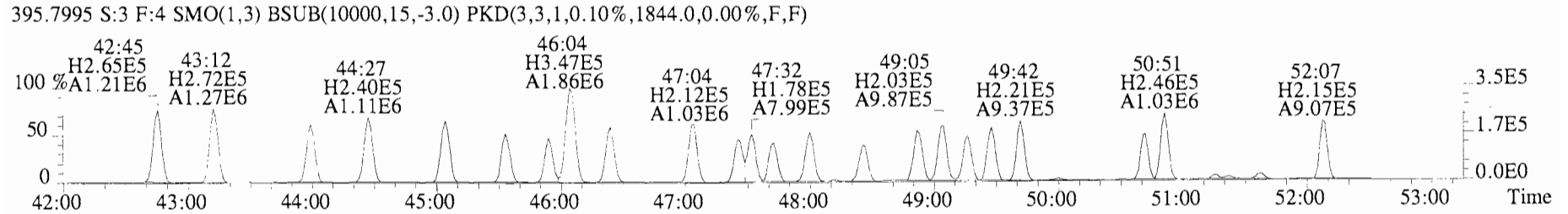
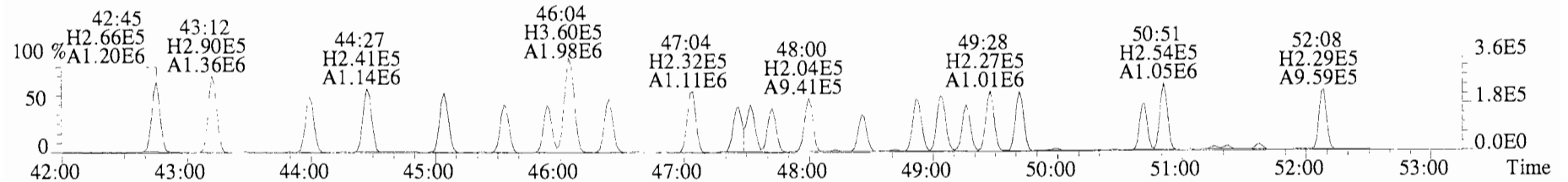
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10128.0,0.00%,F,F)



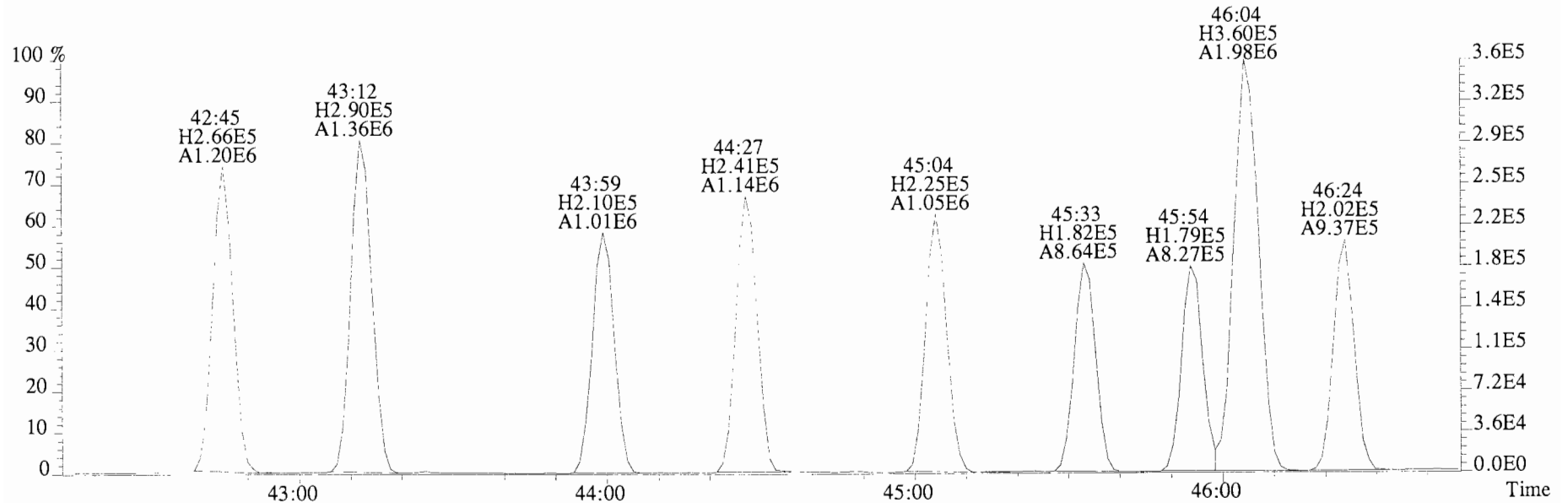
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
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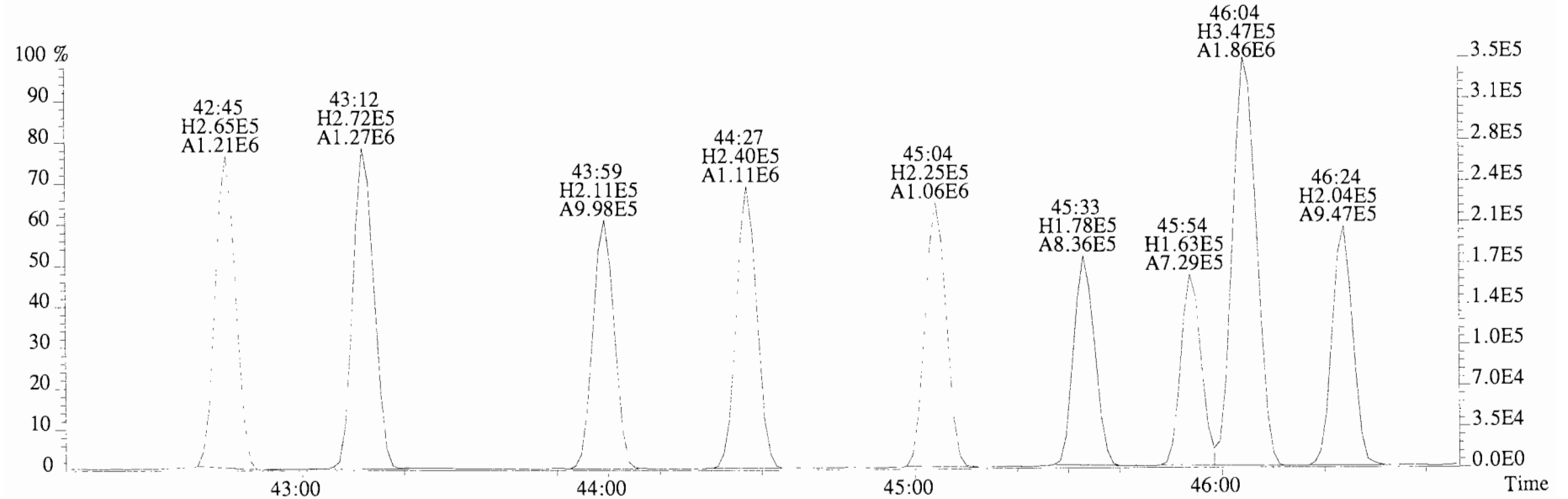
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)

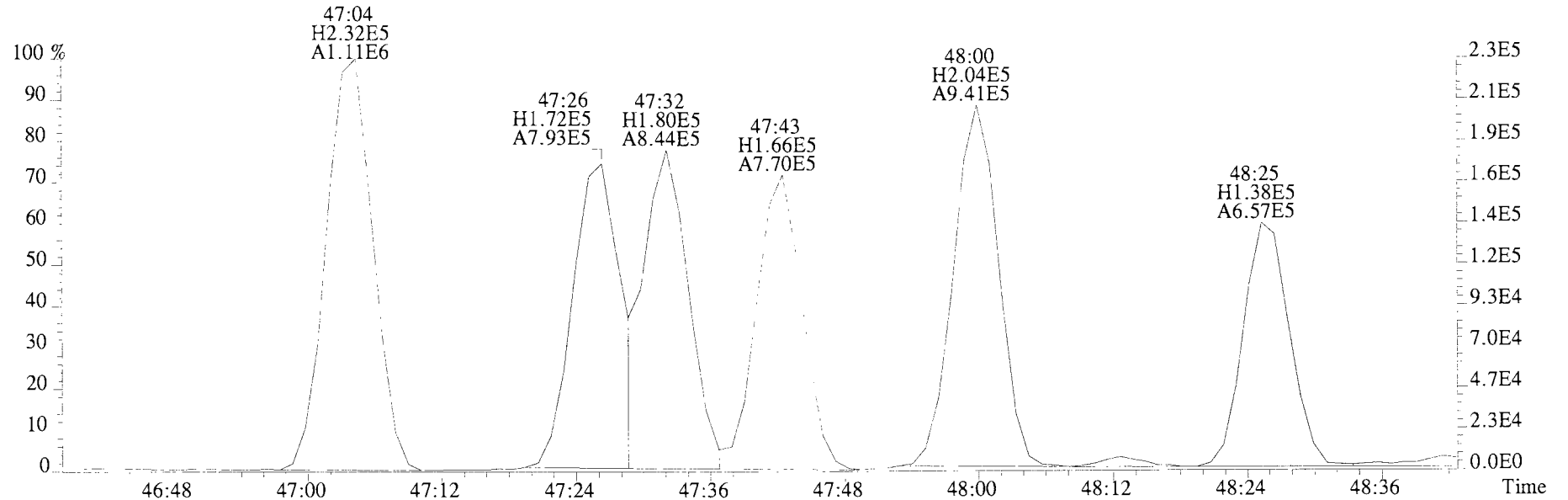


395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1844.0,0.00%,F,F)

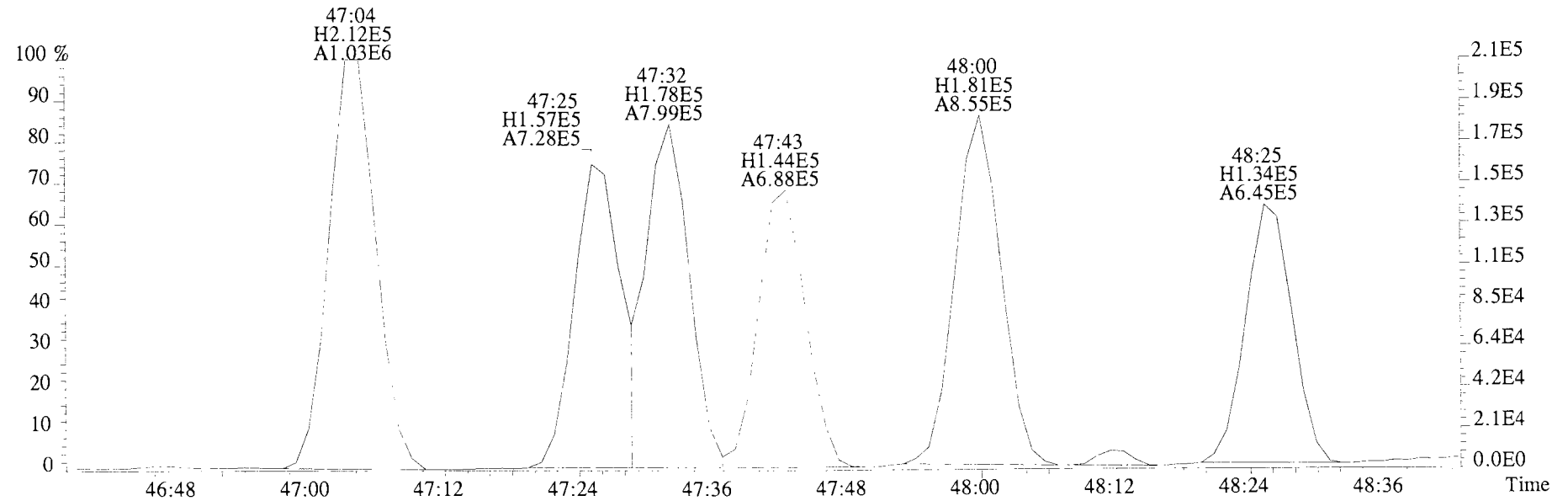




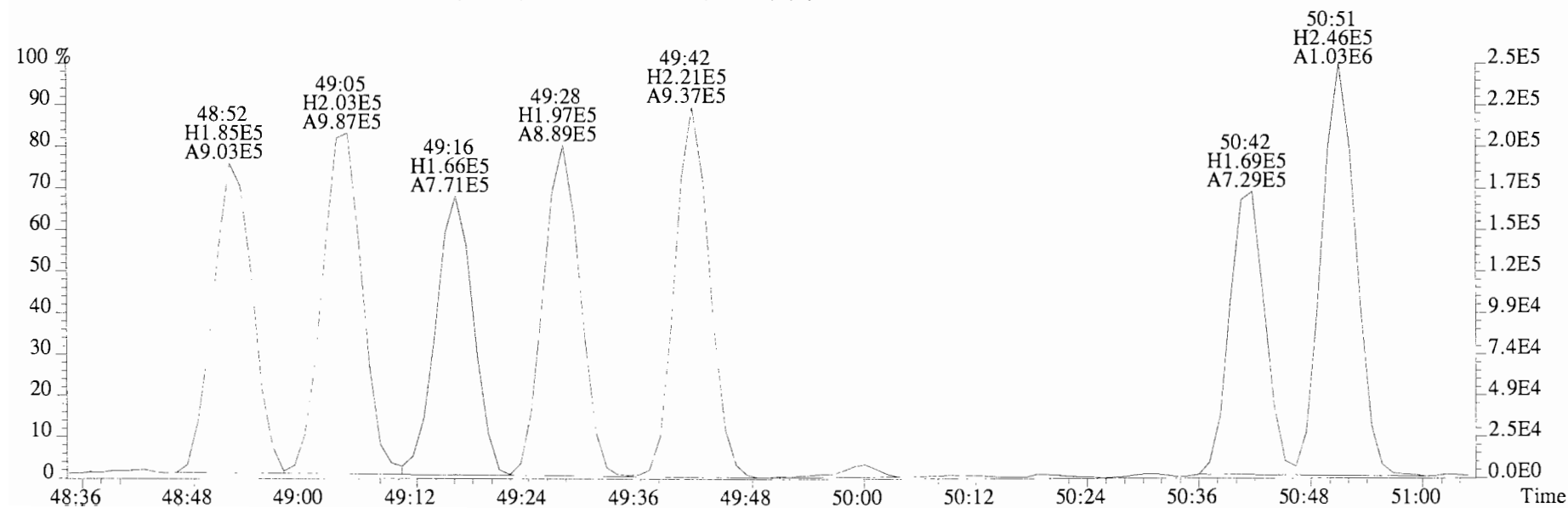
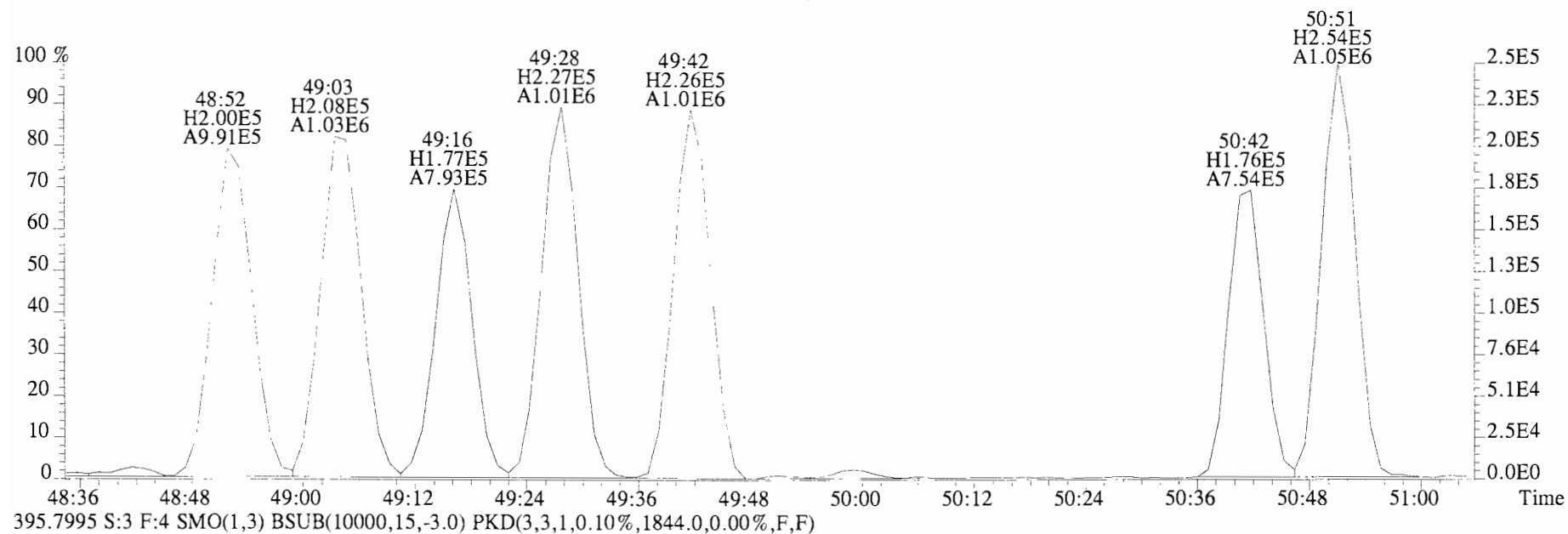
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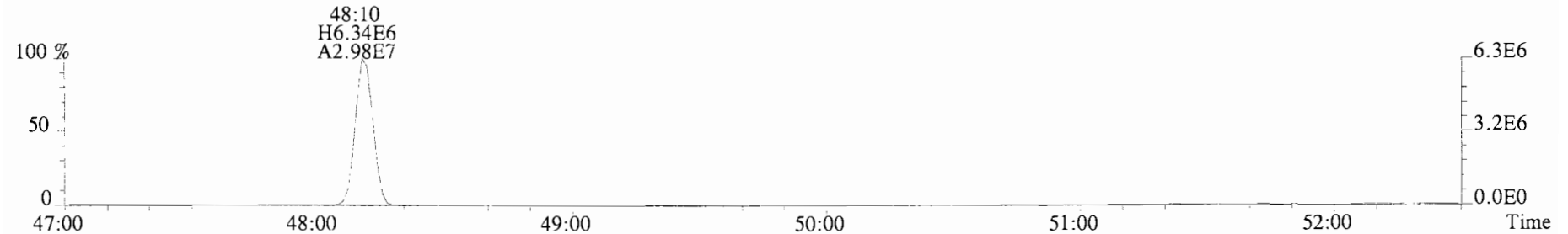
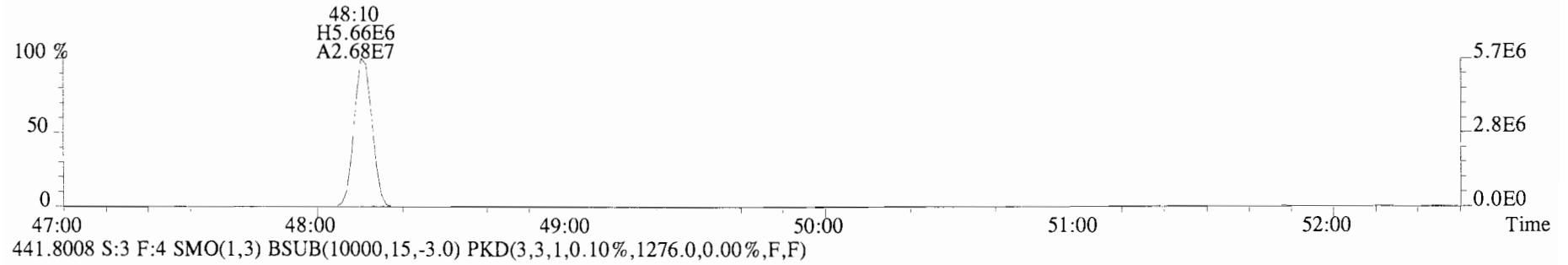
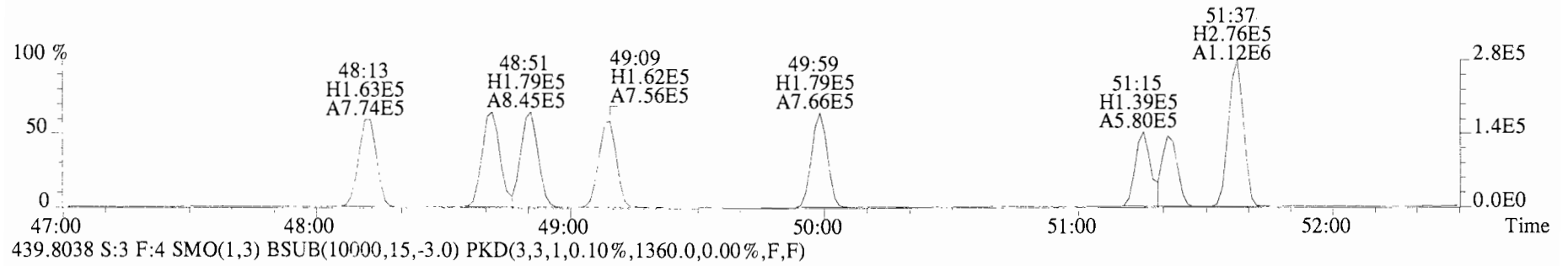
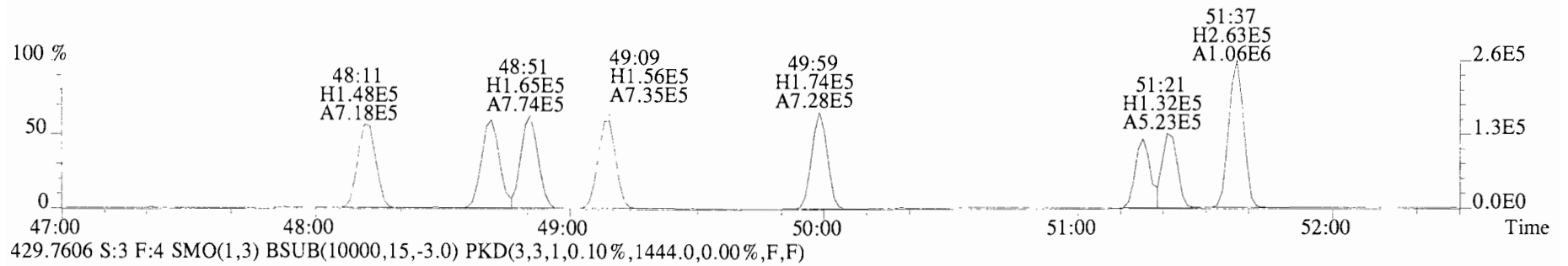
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1844.0,0.00%,F,F)



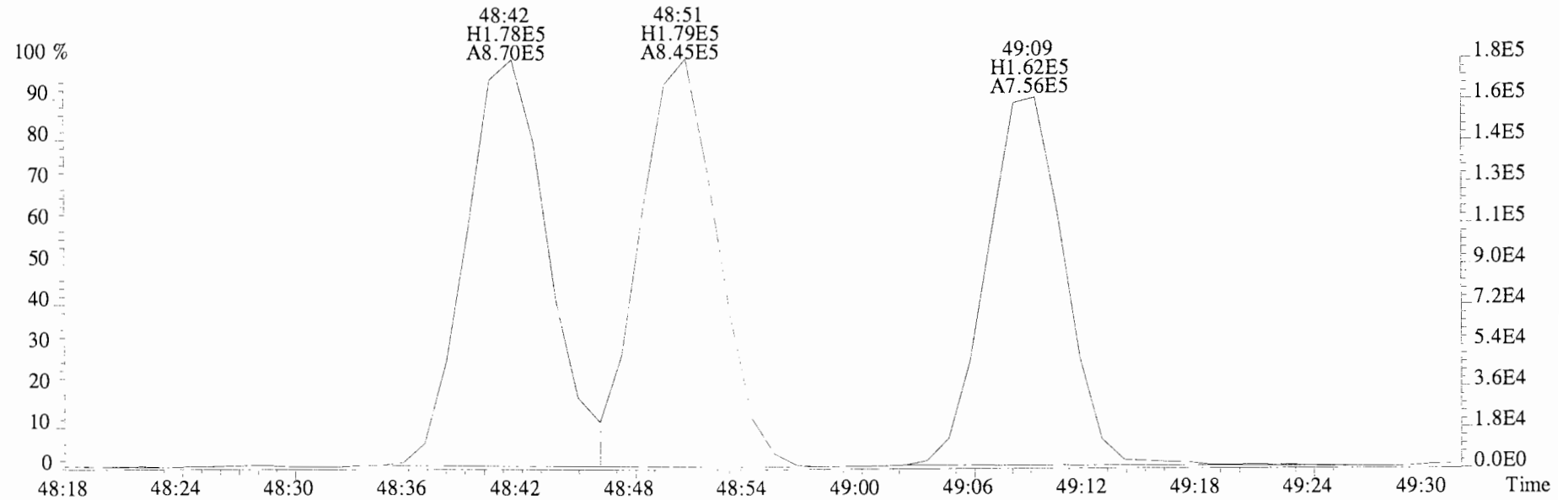
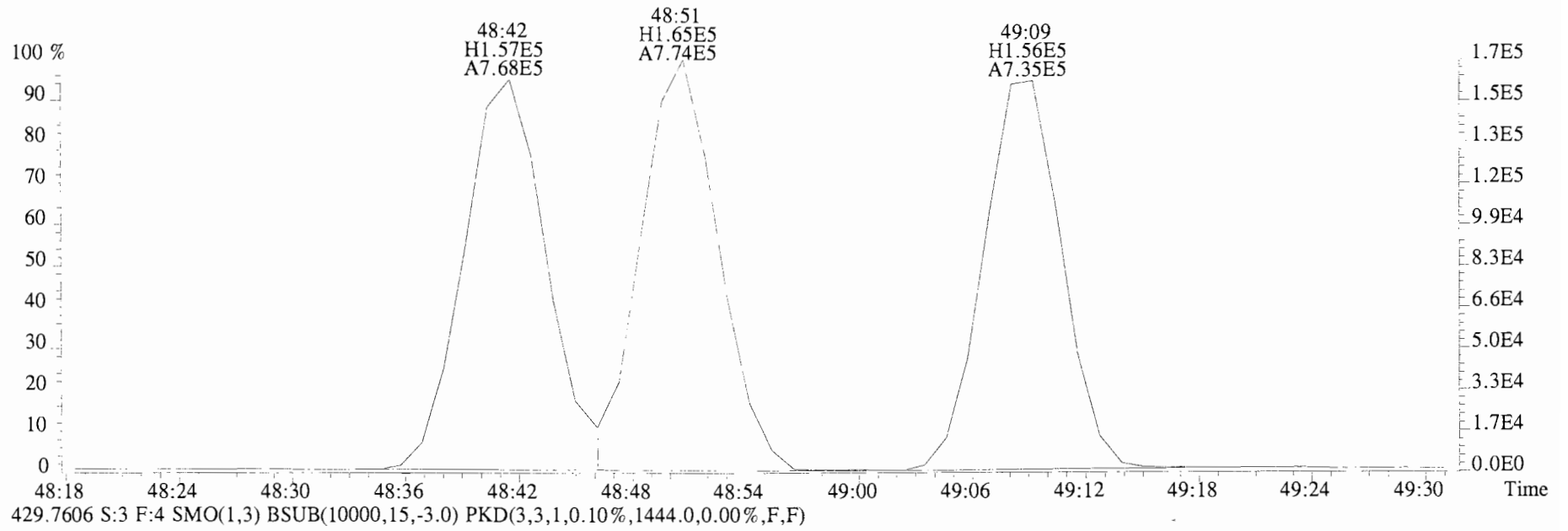
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



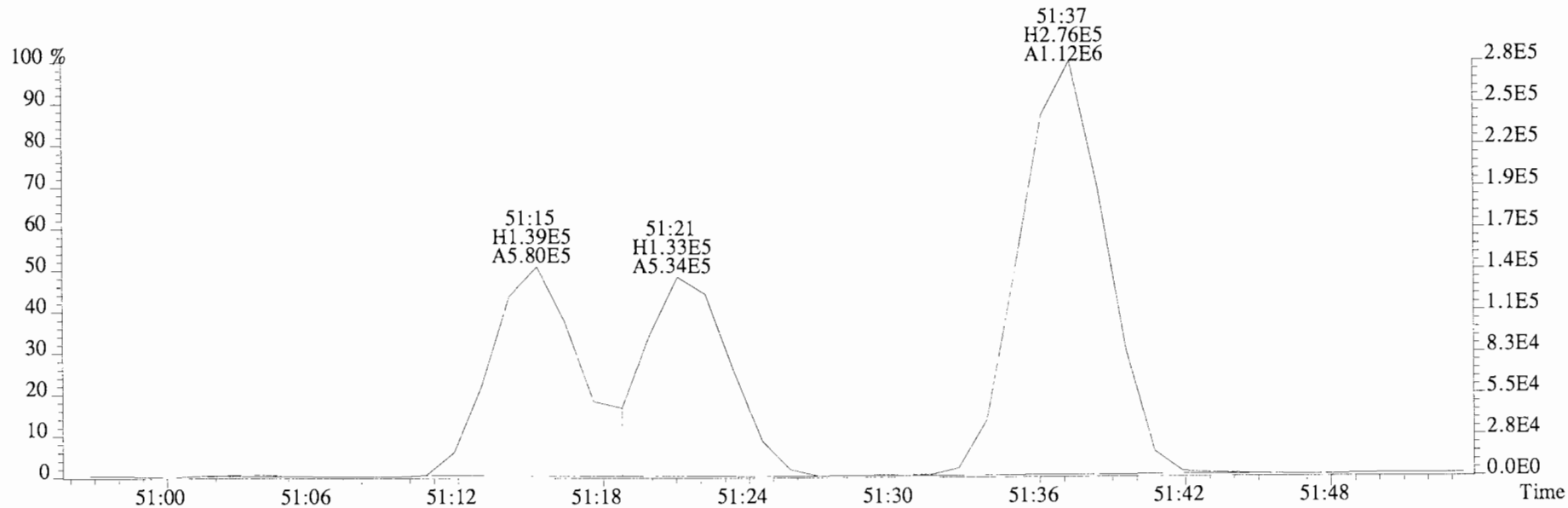
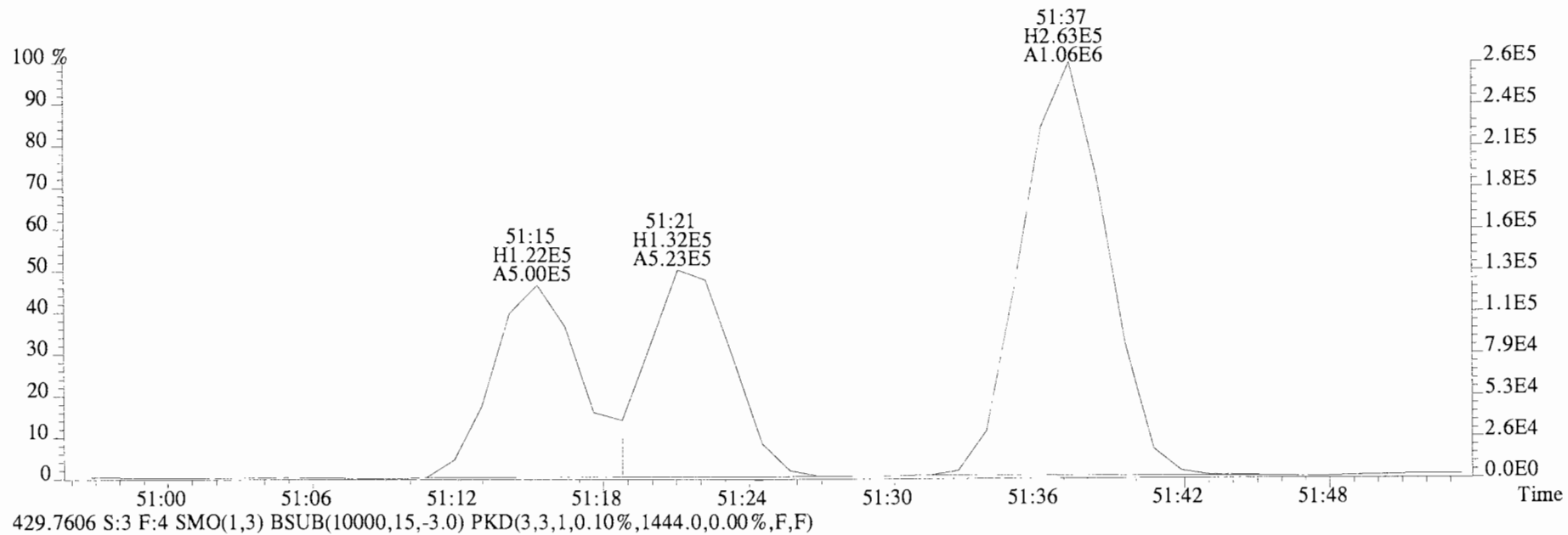
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1448.0,0.00%,F,F)



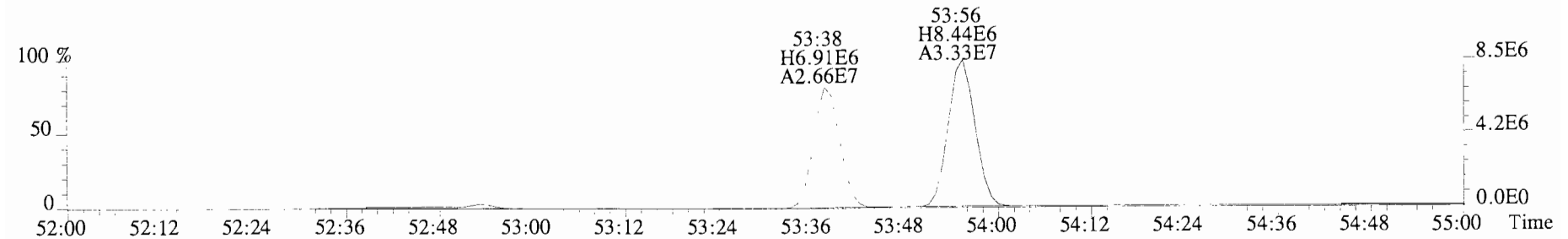
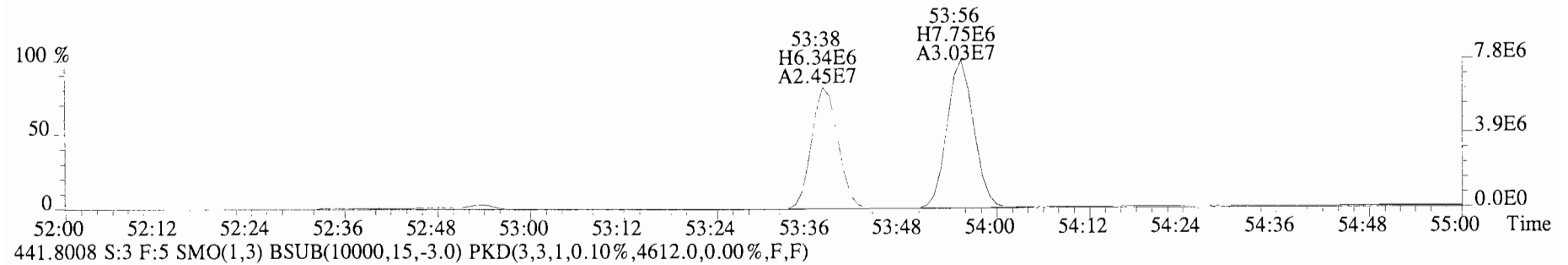
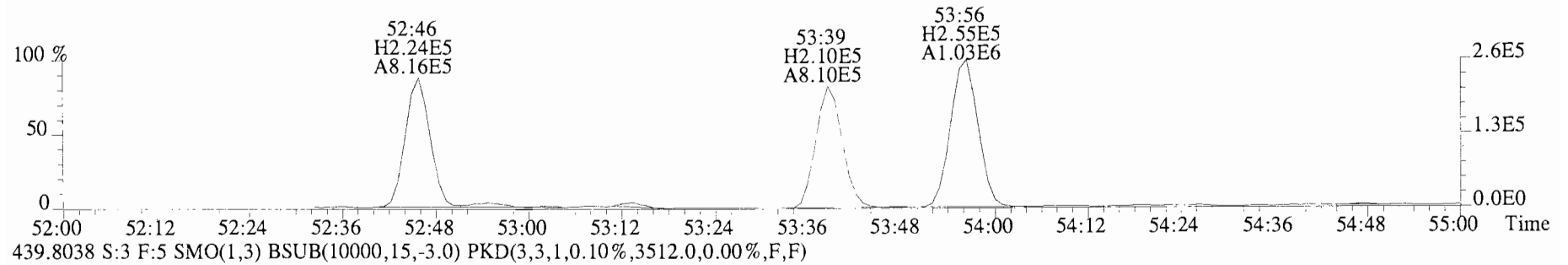
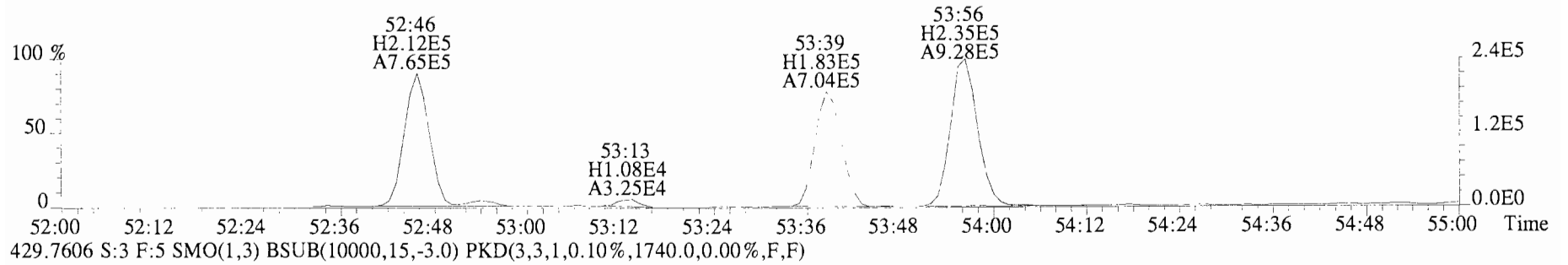
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
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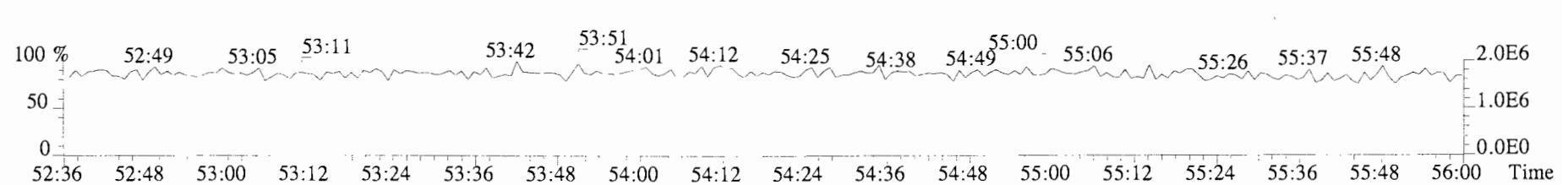
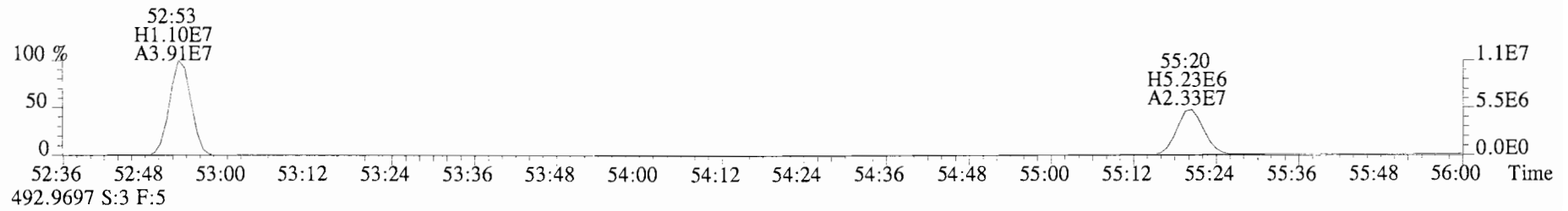
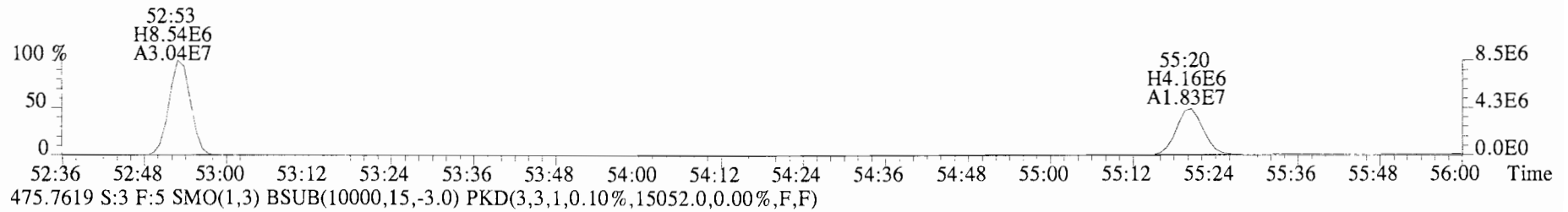
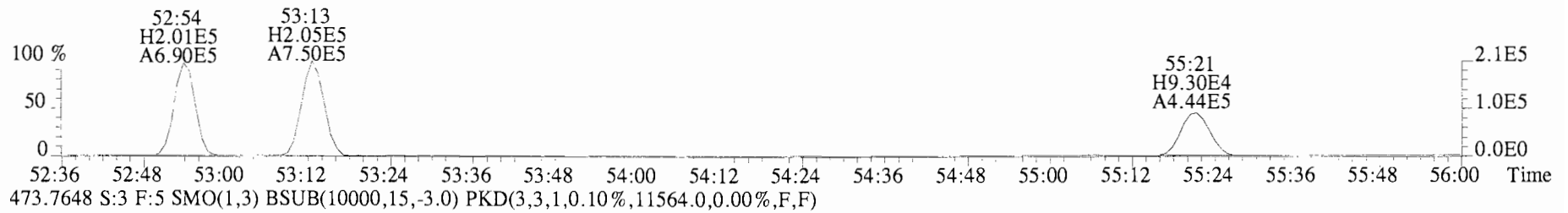
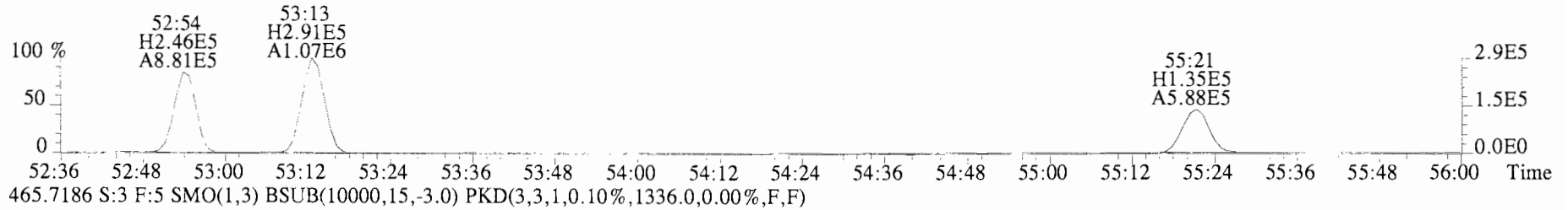
File:140623E2 #1-553 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
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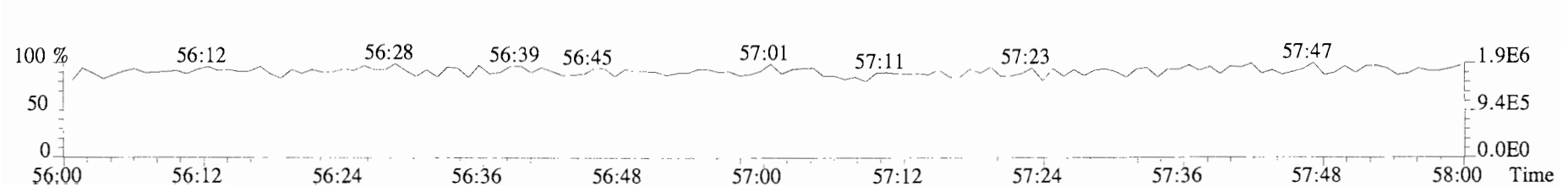
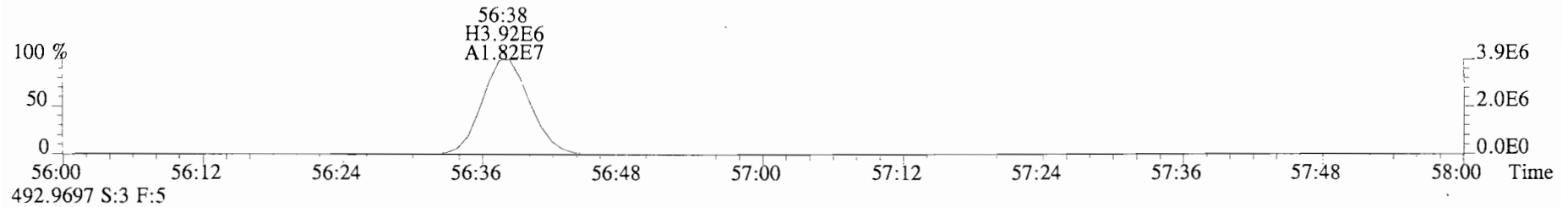
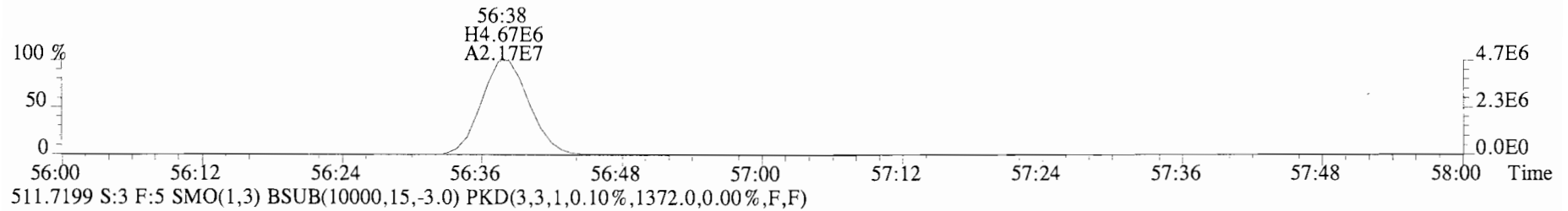
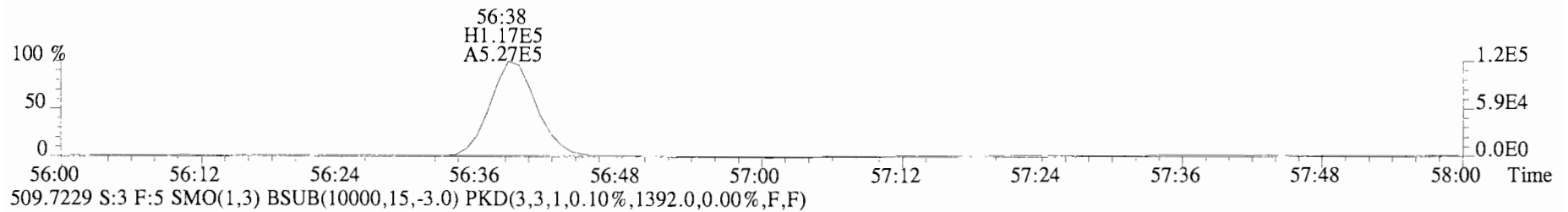
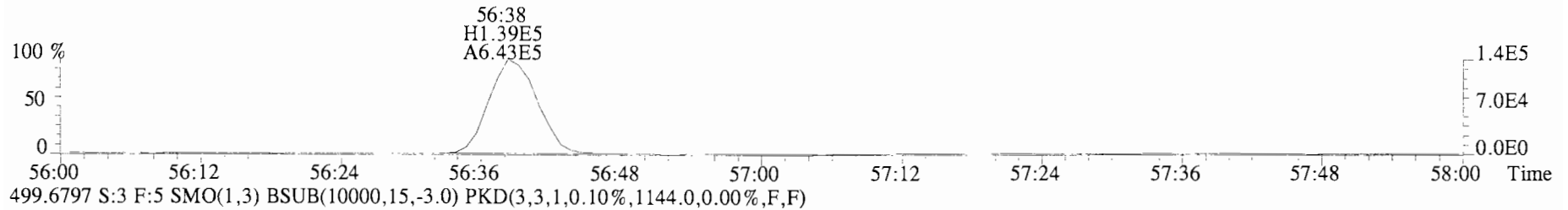
File:140623E2 #1-435 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1860.0,0.00%,F,F)



File:140623E2 #1-435 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1584.0,0.00%,F,F)

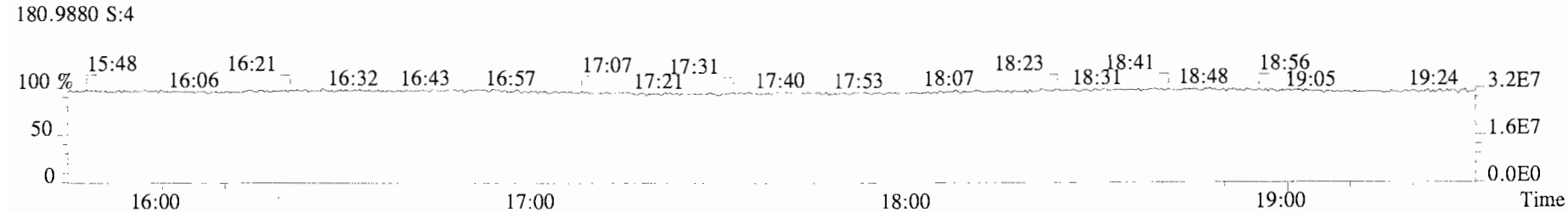
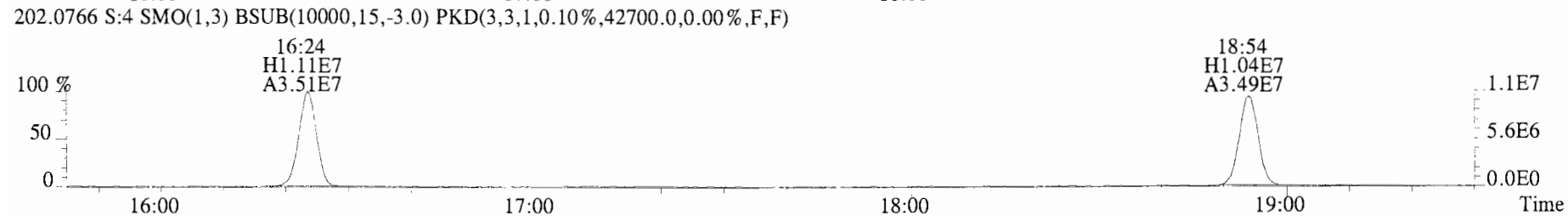
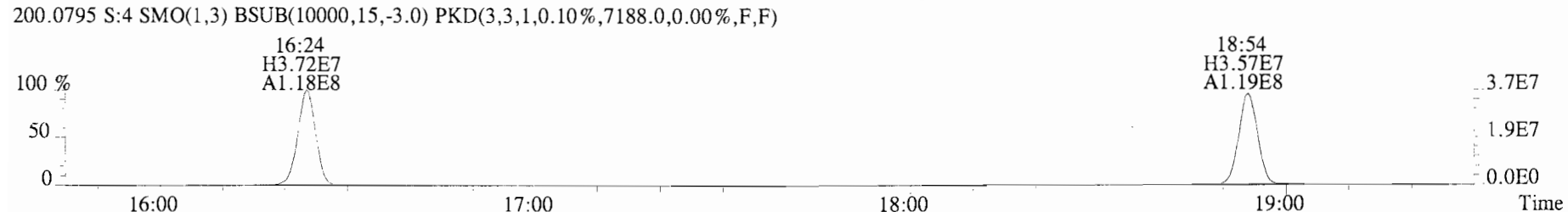
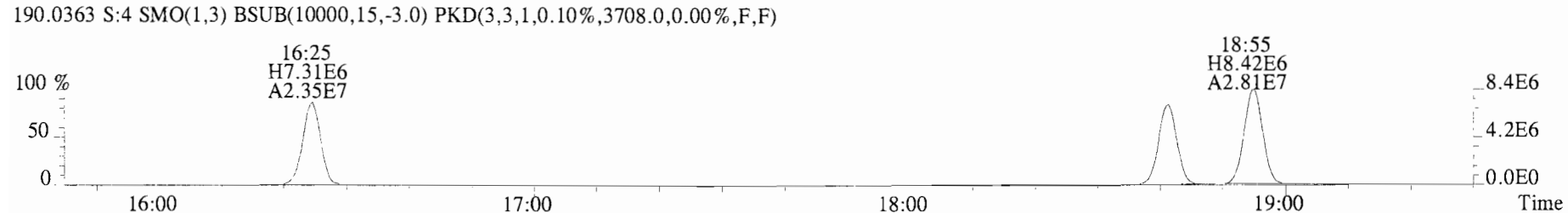


File:140623E2 #1-435 Acq:23-JUN-2014 13:49:52 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-3 PCB CS2 14F1604 Exp:PCB\_ZB1  
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1108.0,0.00%,F,F)

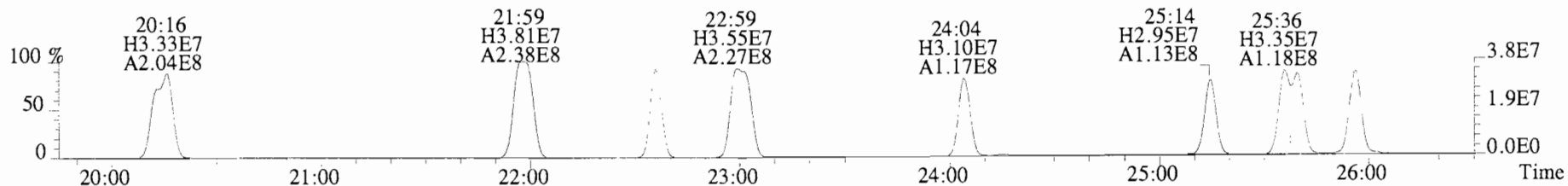




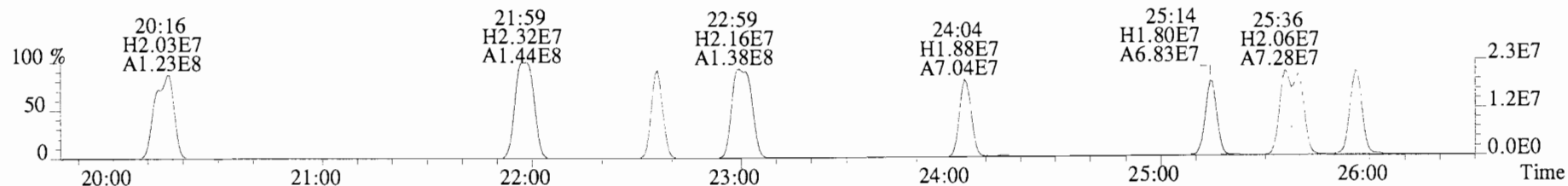
File:140623E2 #1-729 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3612.0,0.00%,F,F)



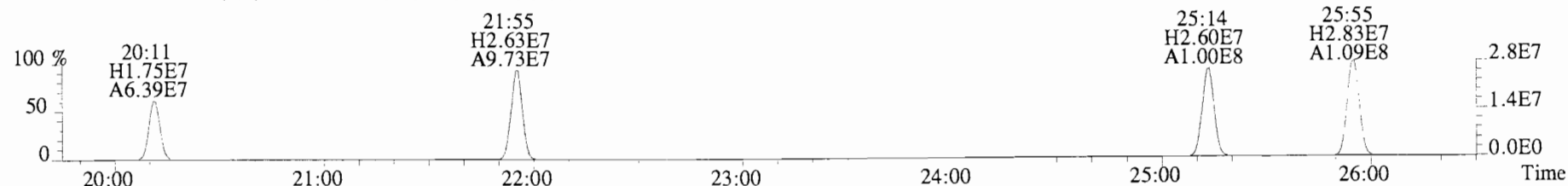
File:140623E2 #1-749 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10124.0,0.00%,F,F)



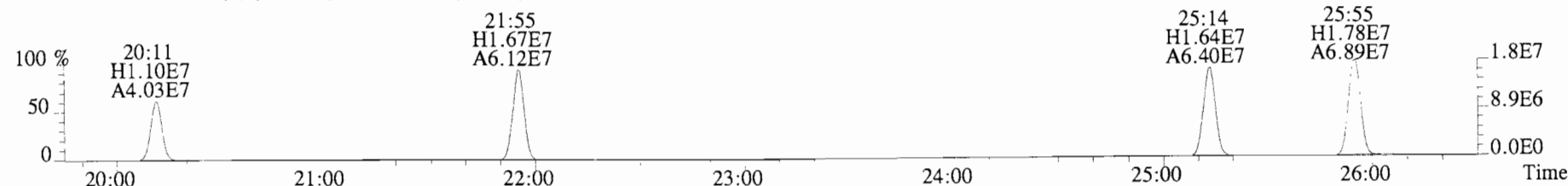
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16628.0,0.00%,F,F)



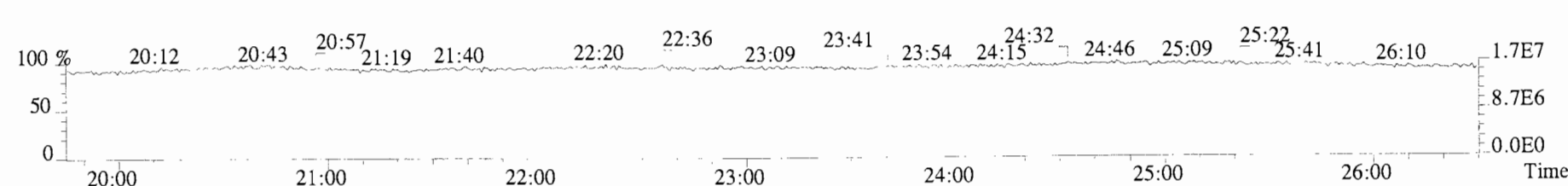
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7084.0,0.00%,F,F)



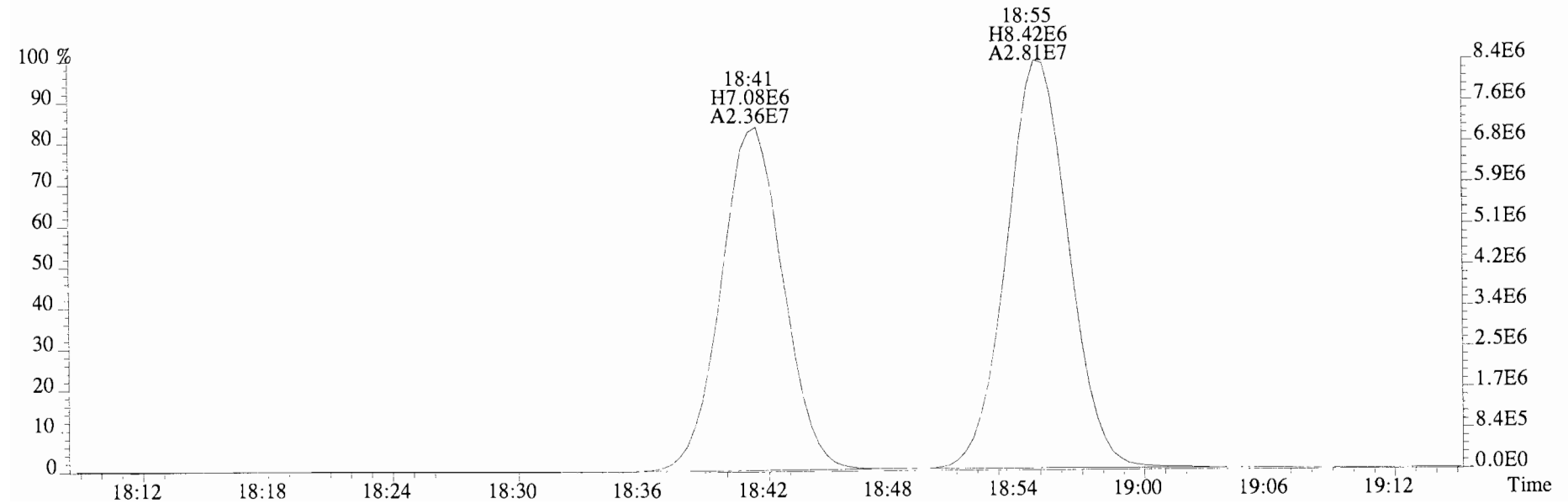
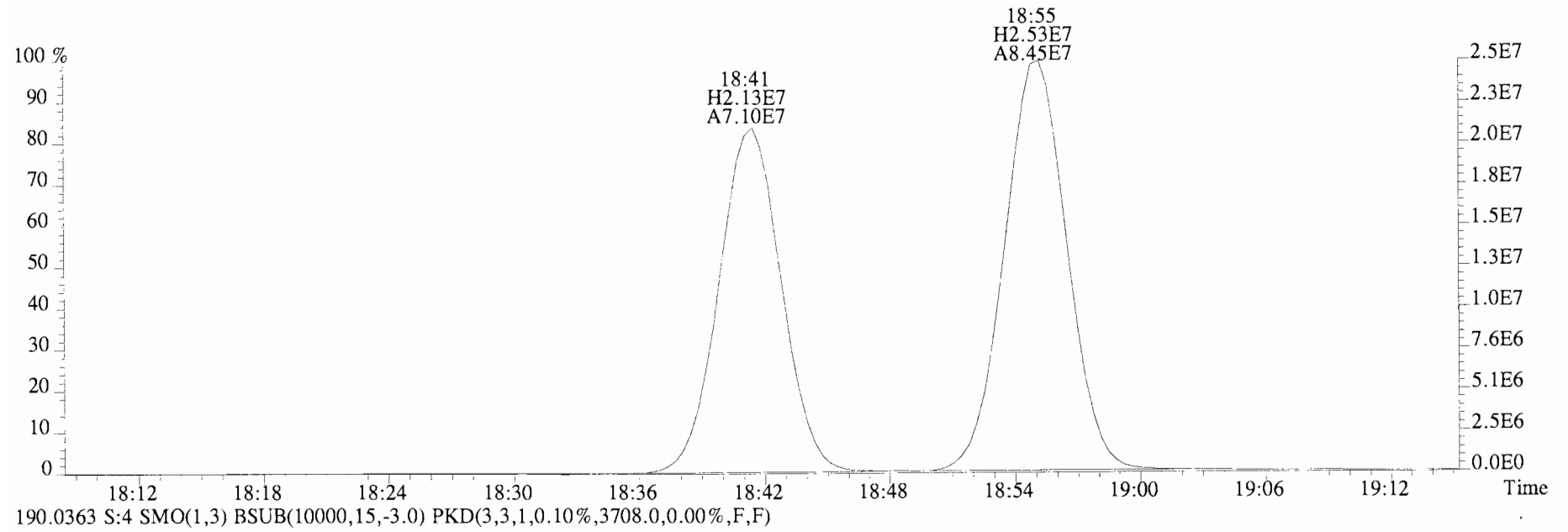
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5044.0,0.00%,F,F)



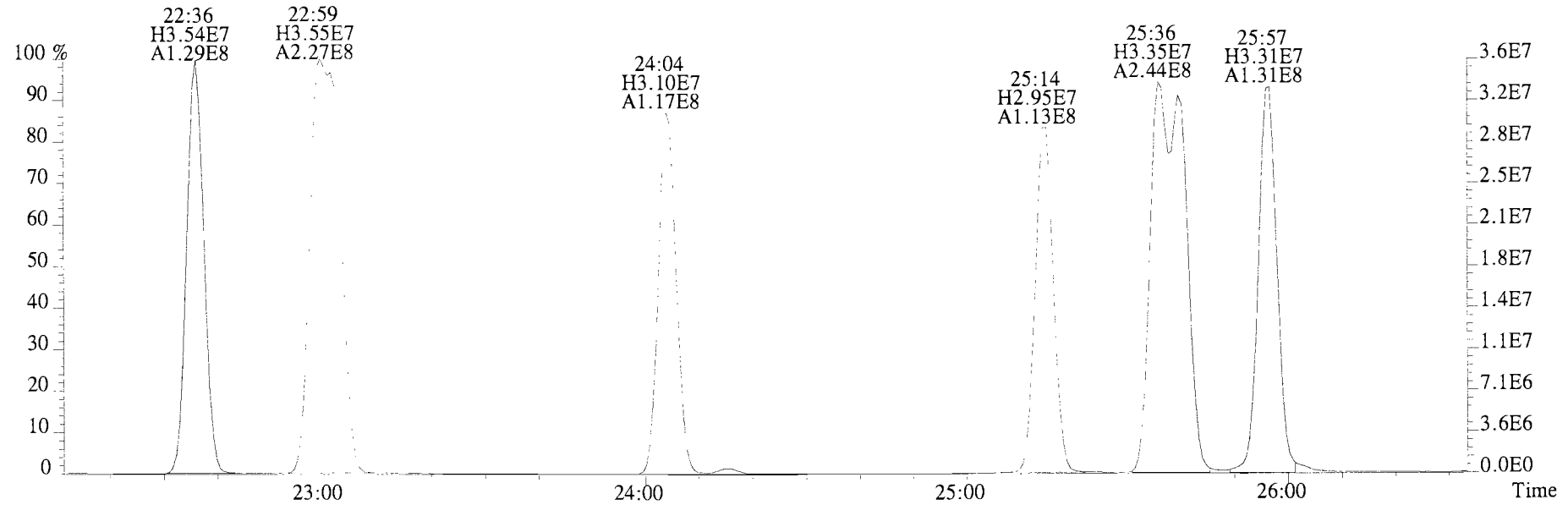
230.9856 S:4 F:2



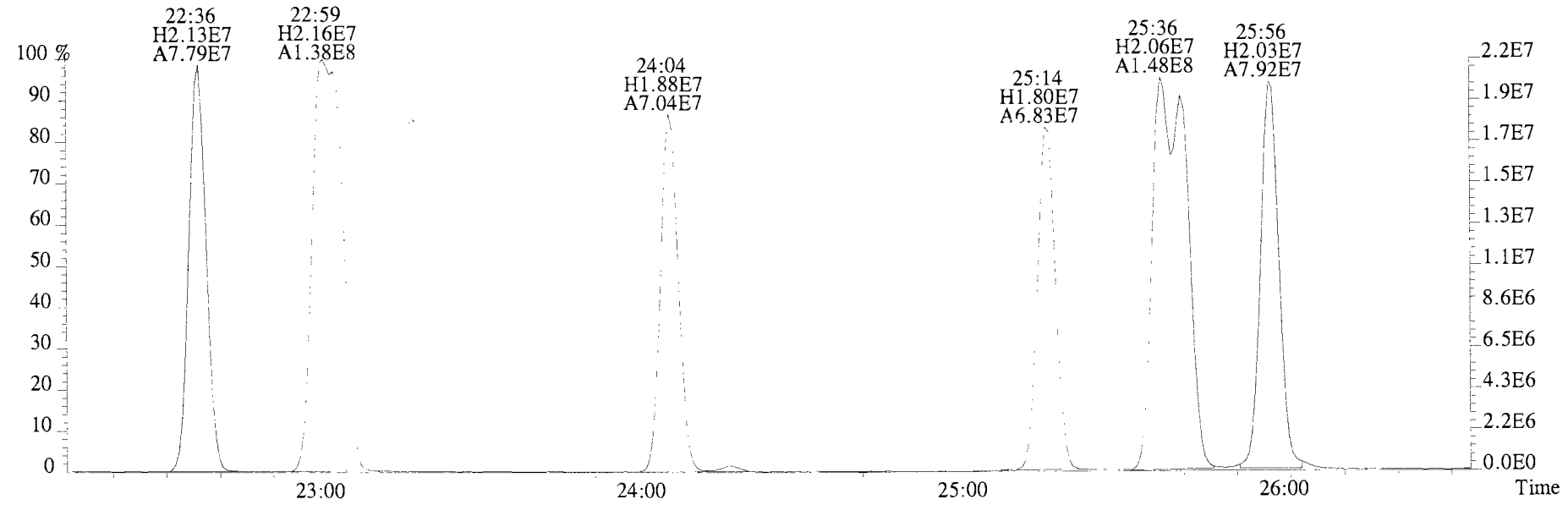
File:140623E2 #1-729 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3612.0,0.00%,F,F)



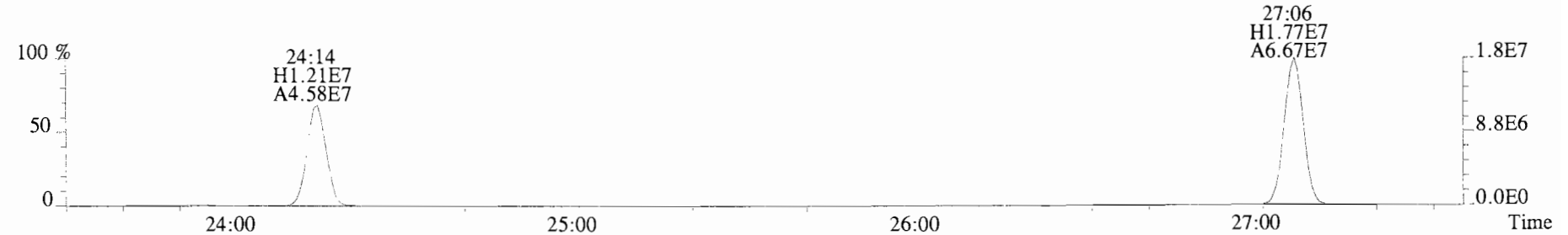
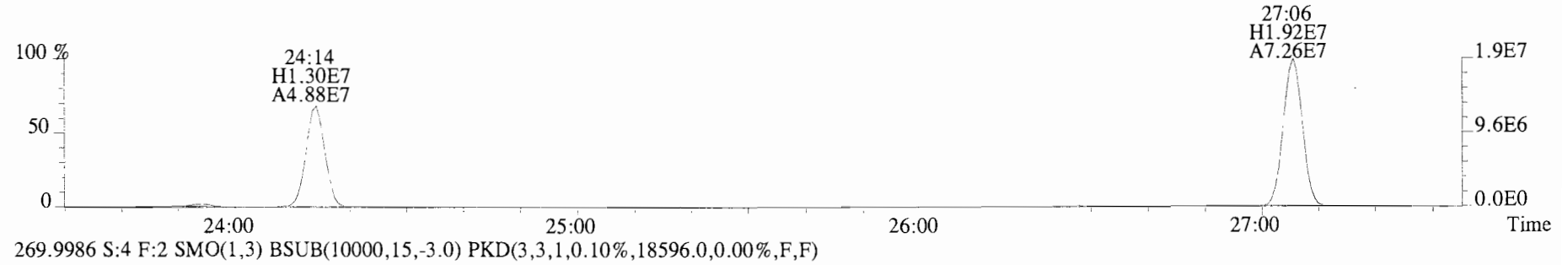
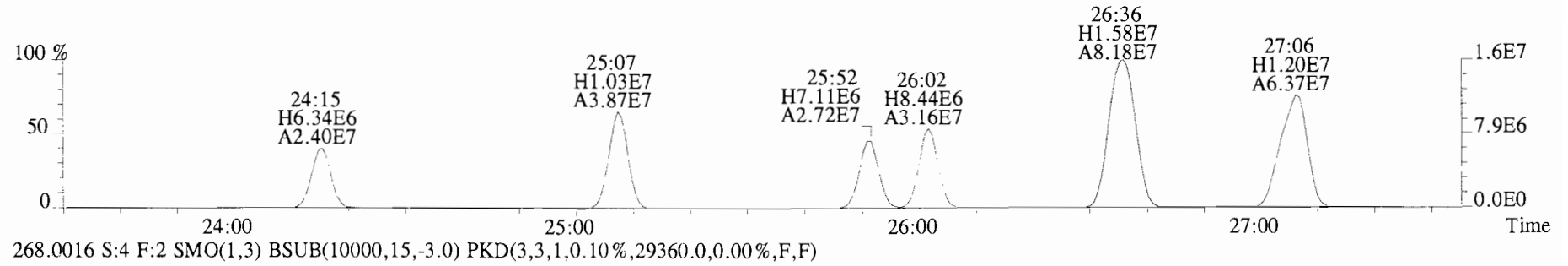
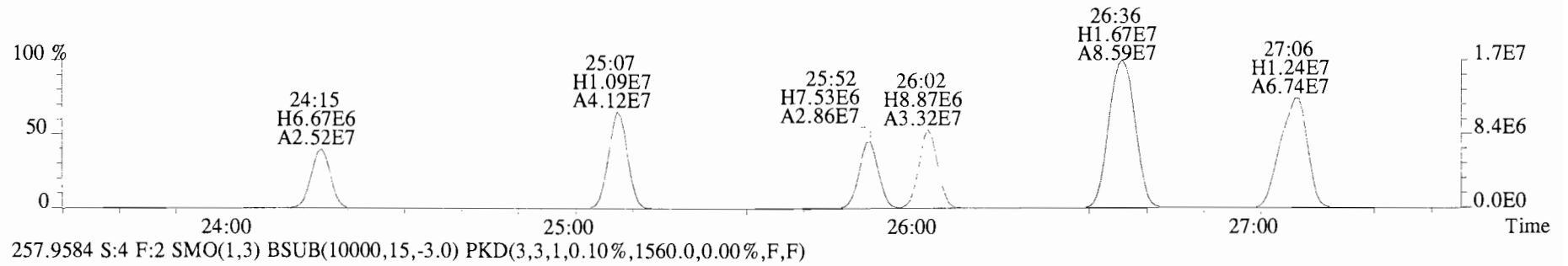
File:140623E2 #1-749 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10124.0,0.00%,F,F)



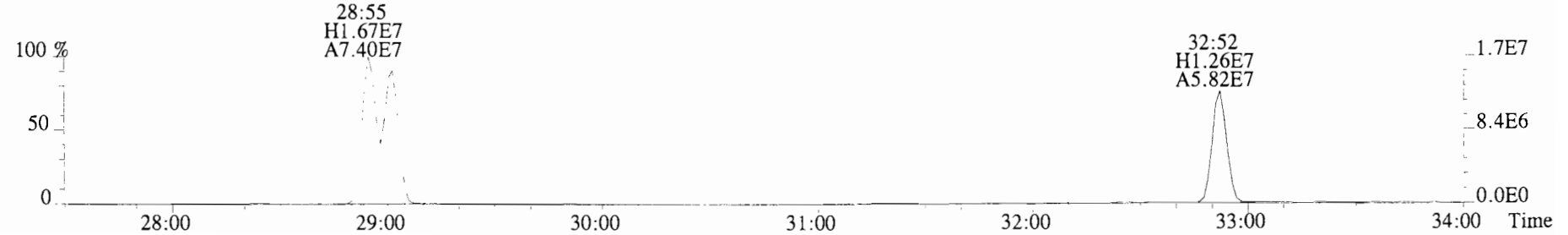
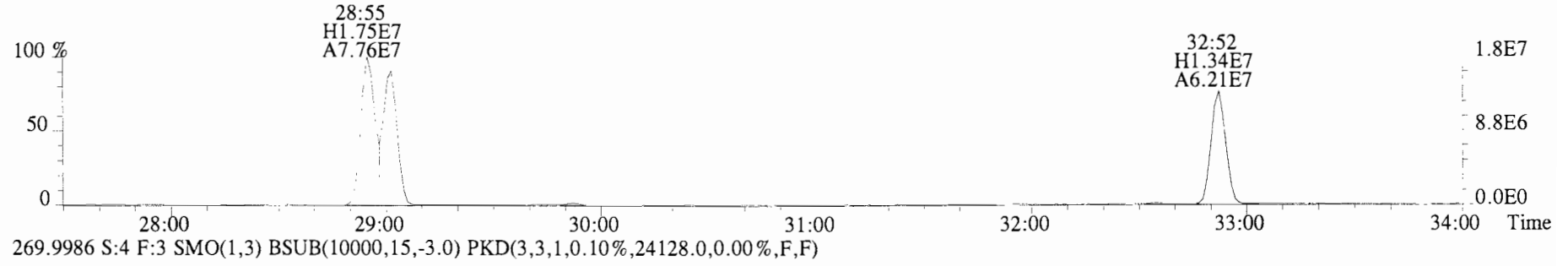
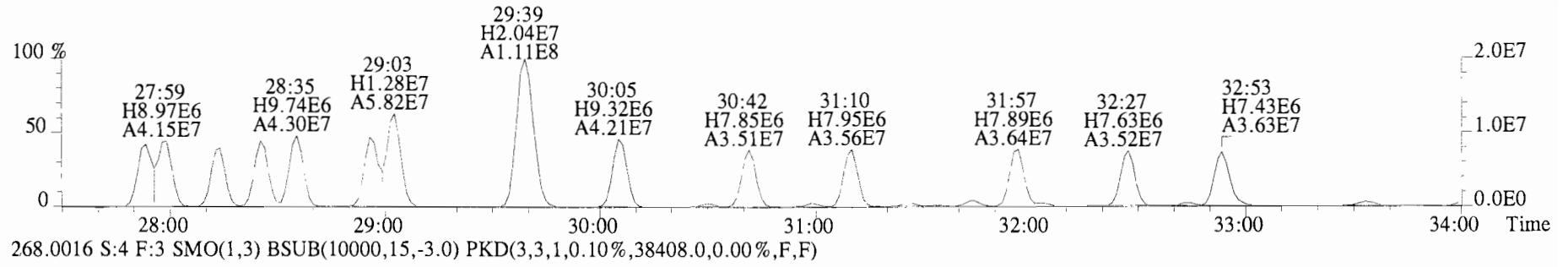
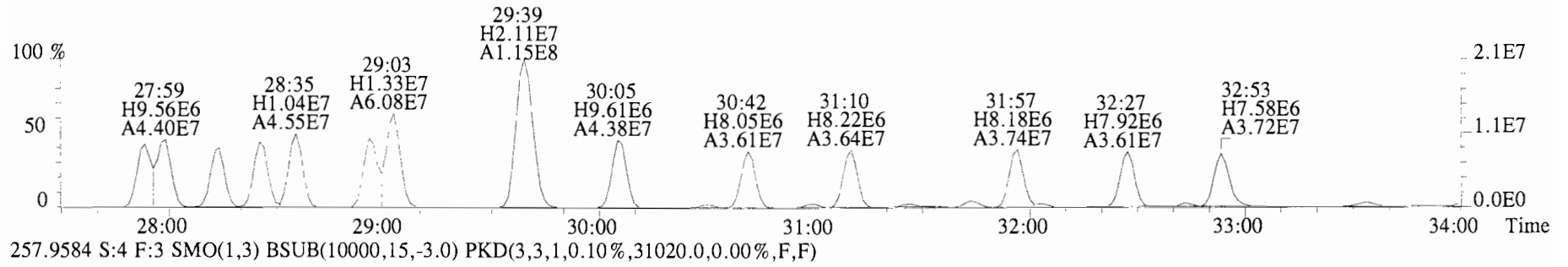
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16628.0,0.00%,F,F)



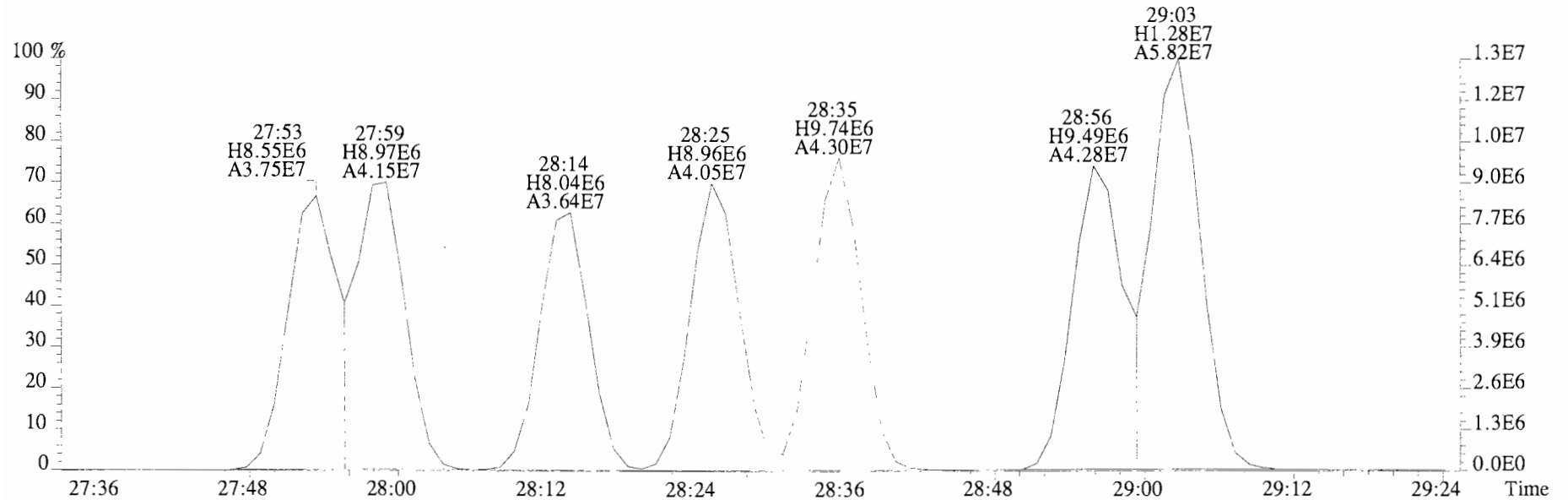
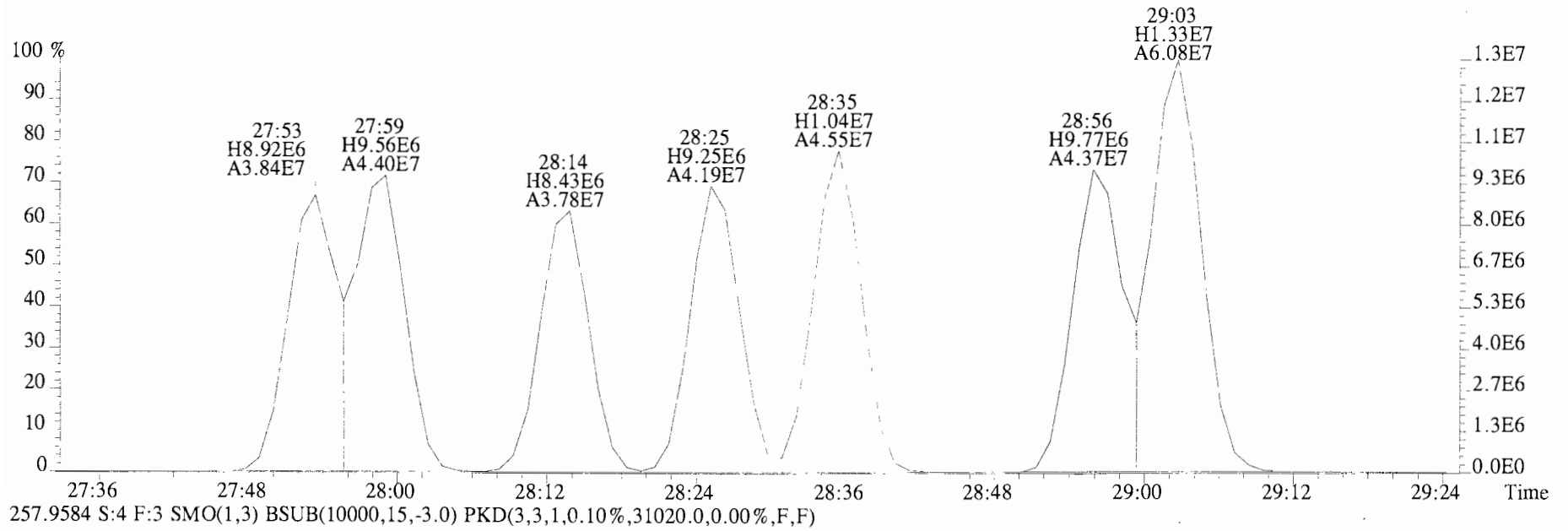
File:140623E2 #1-749 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



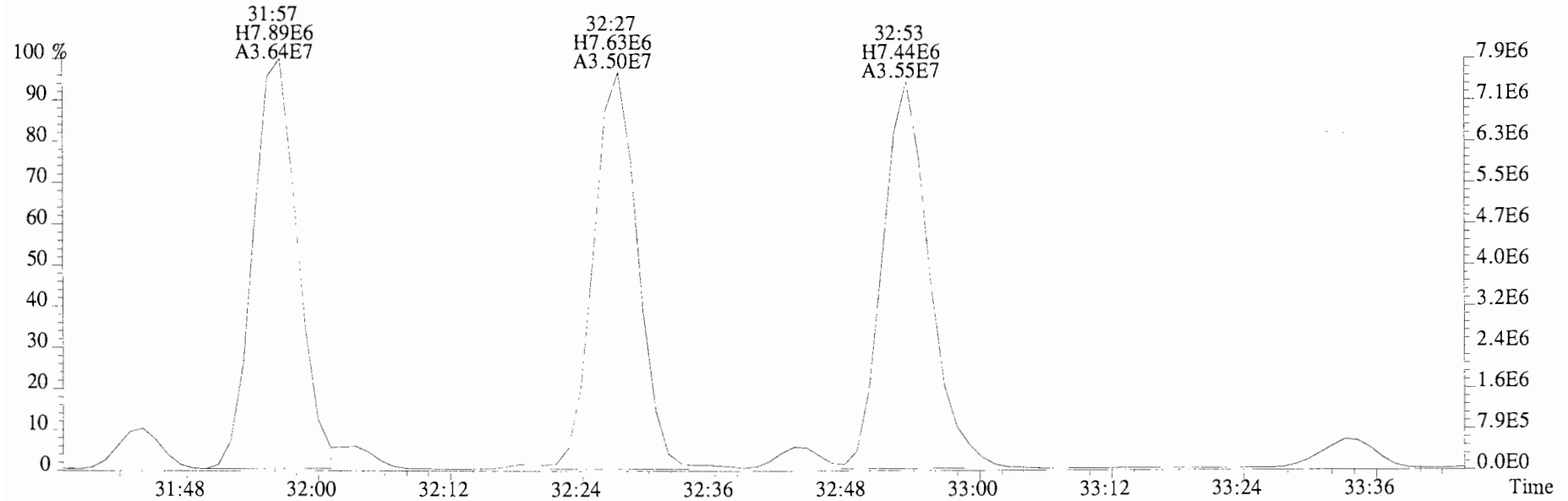
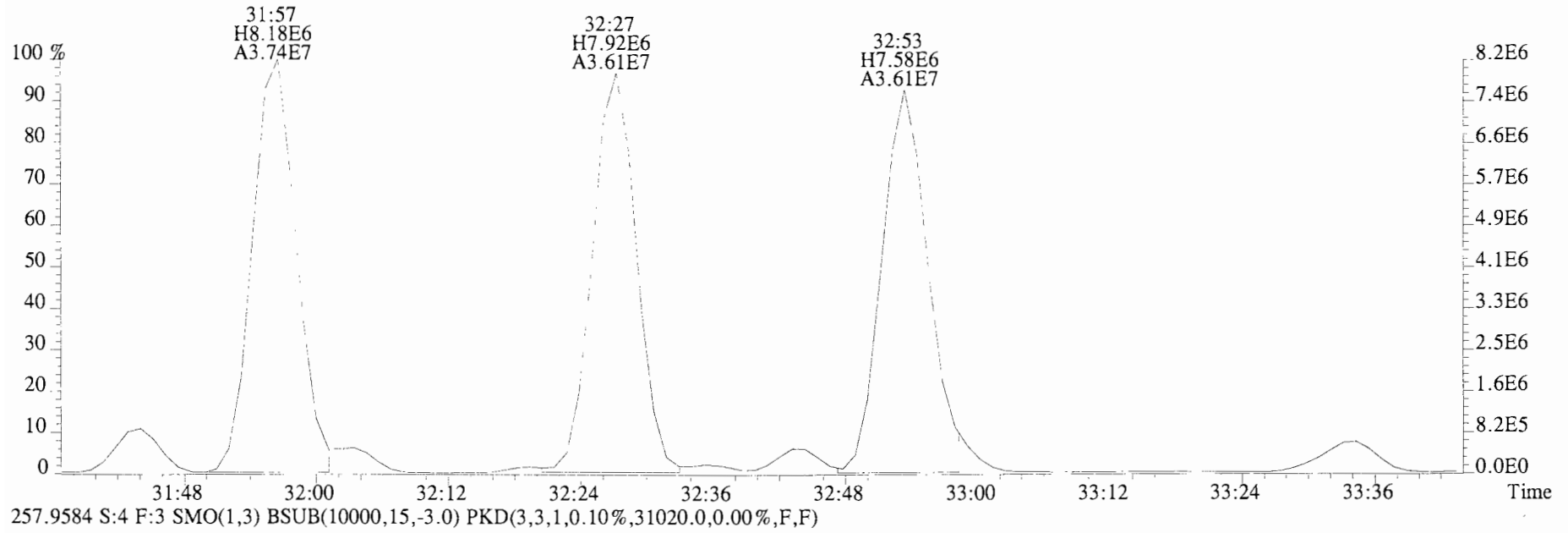
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37004.0,0.00%,F,F)



File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37004.0,0.00%,F,F)

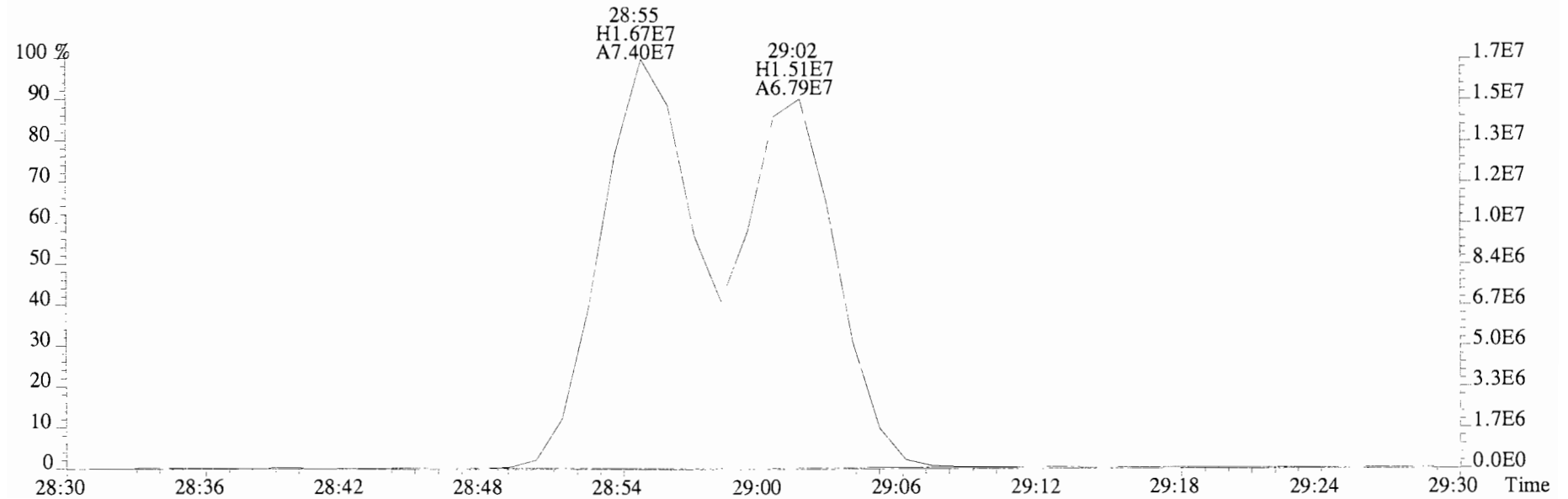
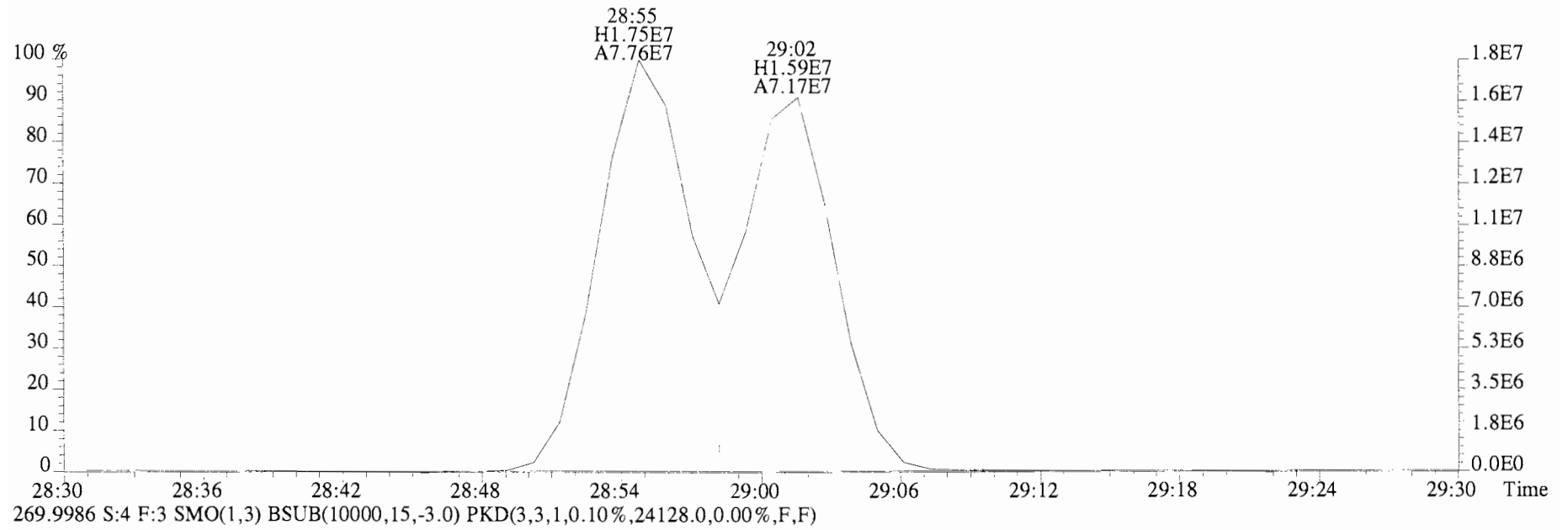


File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37004.0,0.00%,F,F)

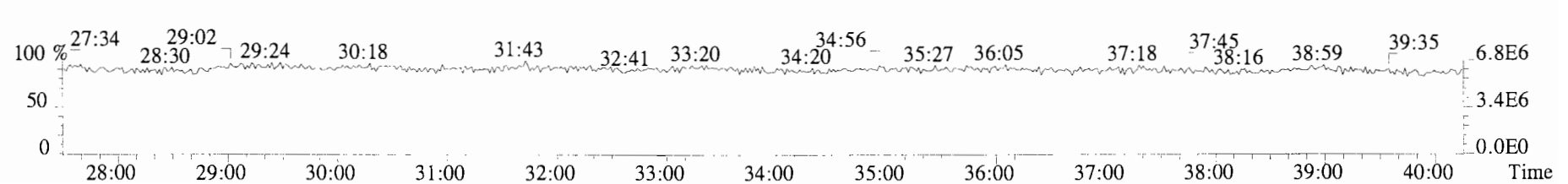
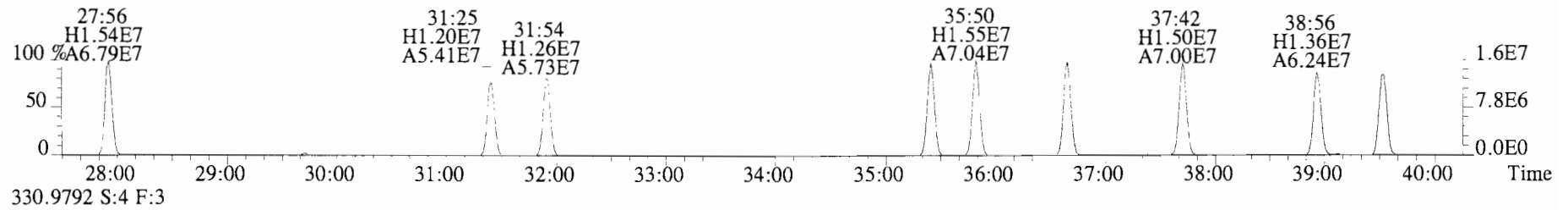
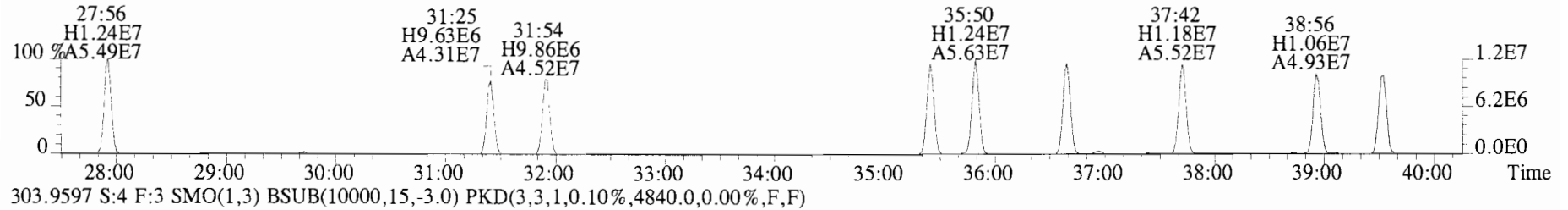
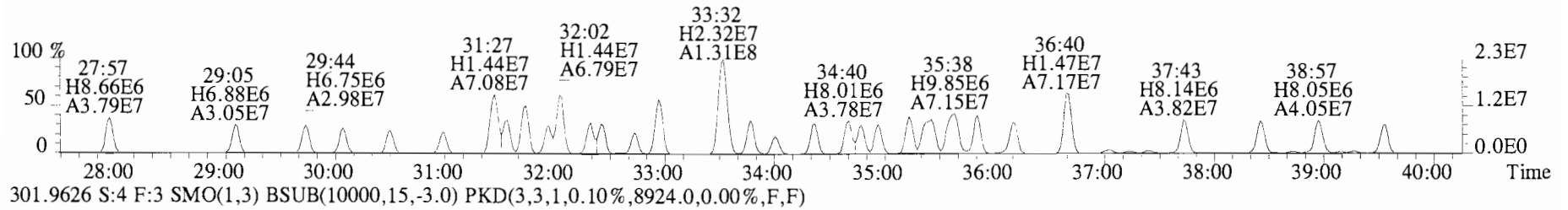
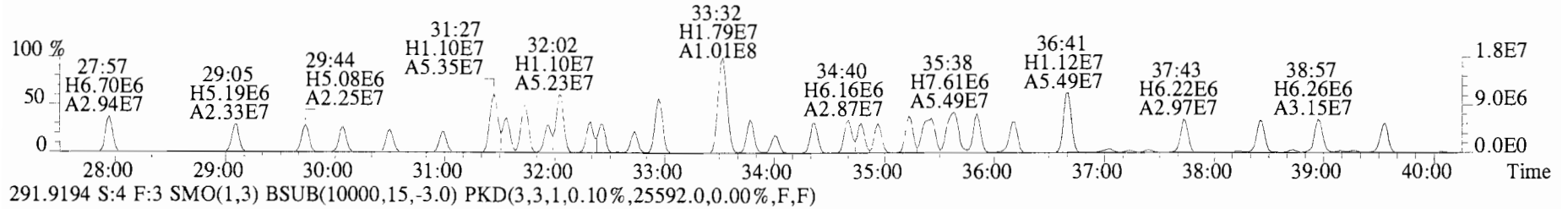




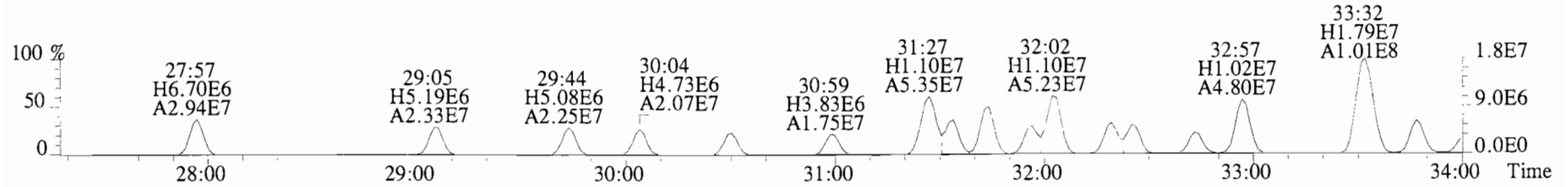
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38408.0,0.00%,F,F)



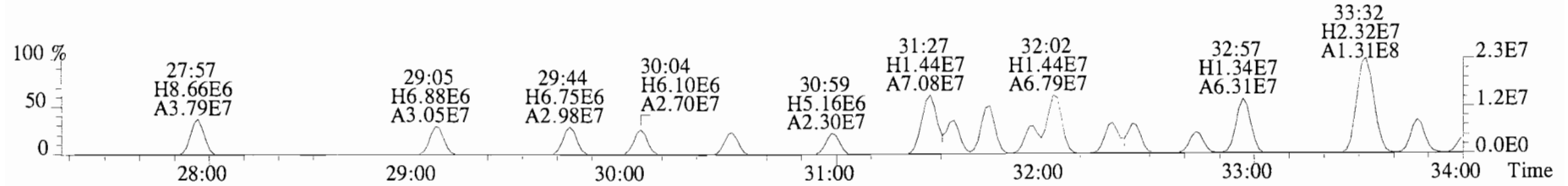
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



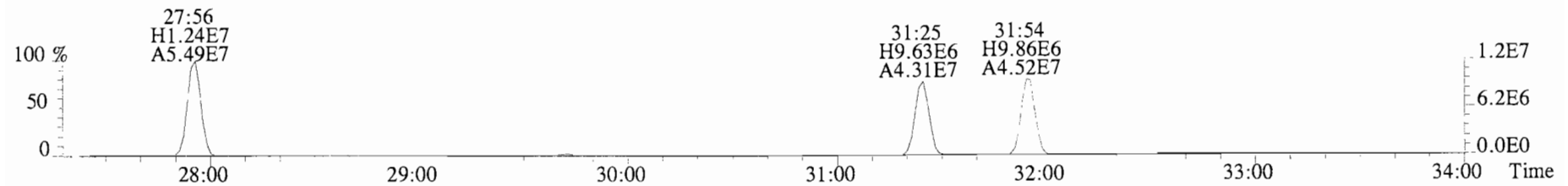
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



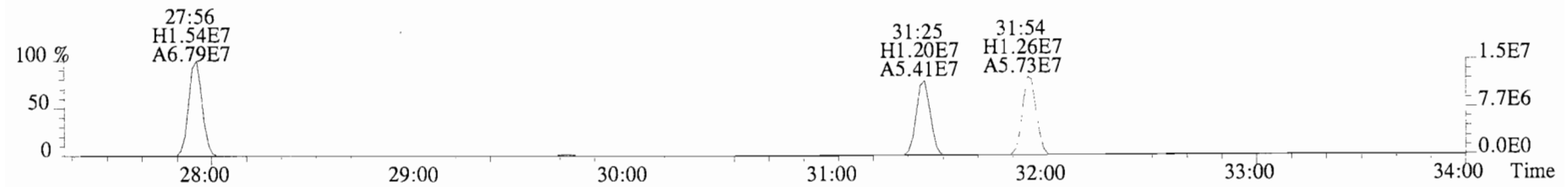
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25592.0,0.00%,F,F)



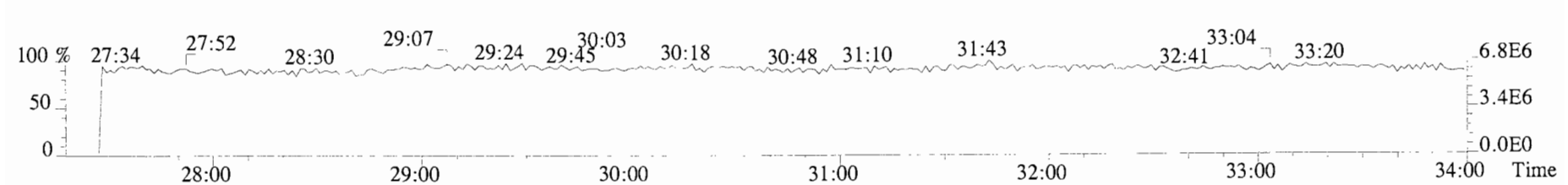
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8924.0,0.00%,F,F)



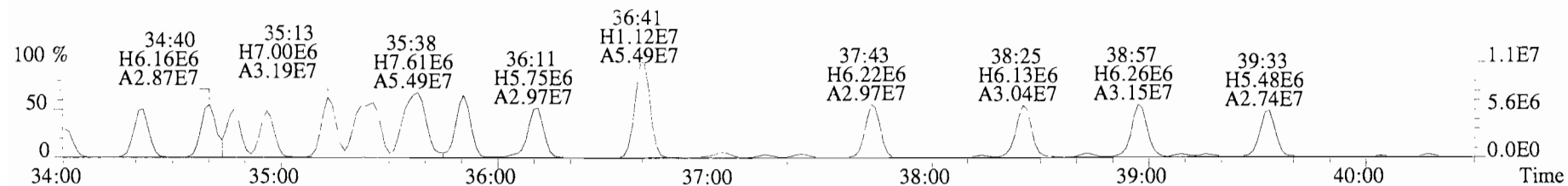
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4840.0,0.00%,F,F)



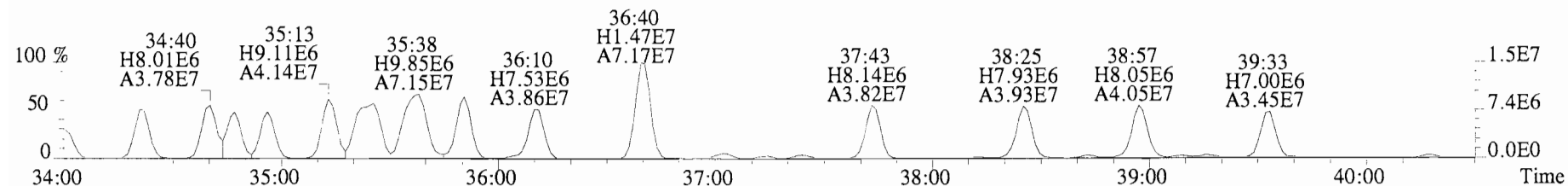
330.9792 S:4 F:3



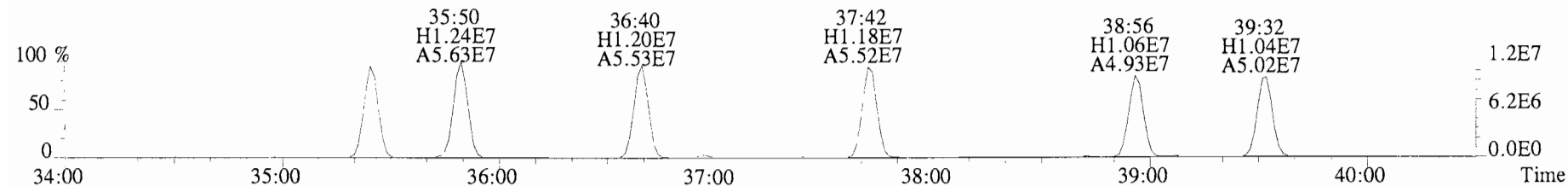
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



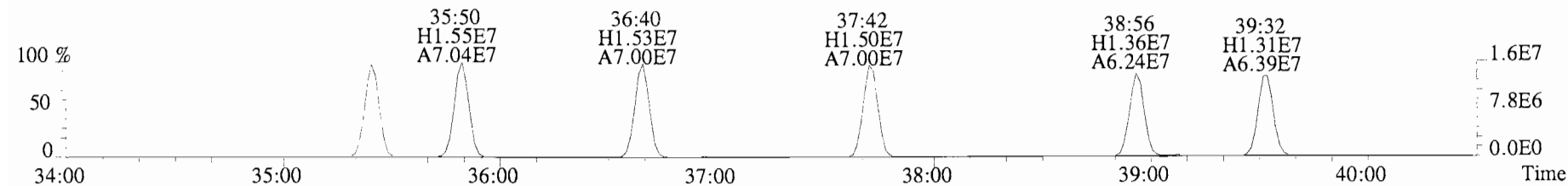
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25592.0,0.00%,F,F)



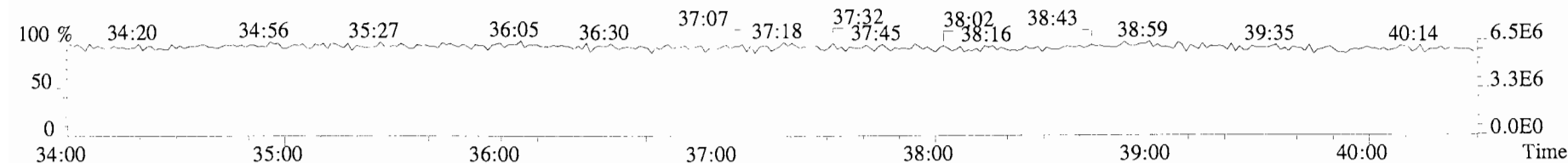
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8924.0,0.00%,F,F)



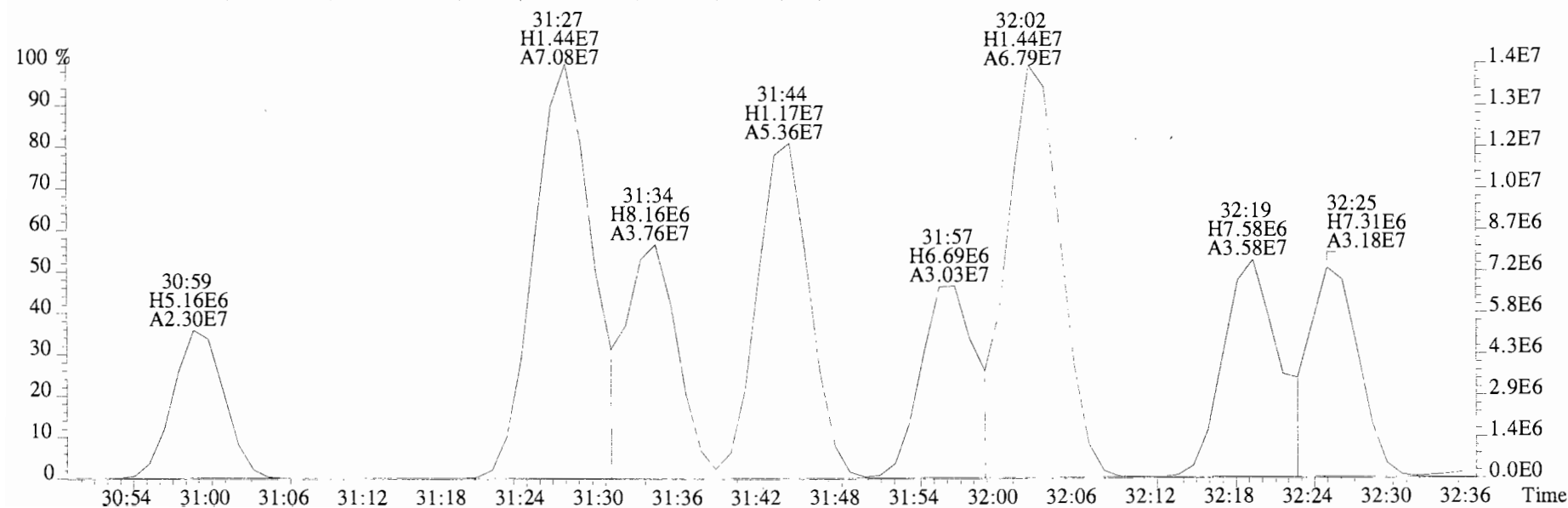
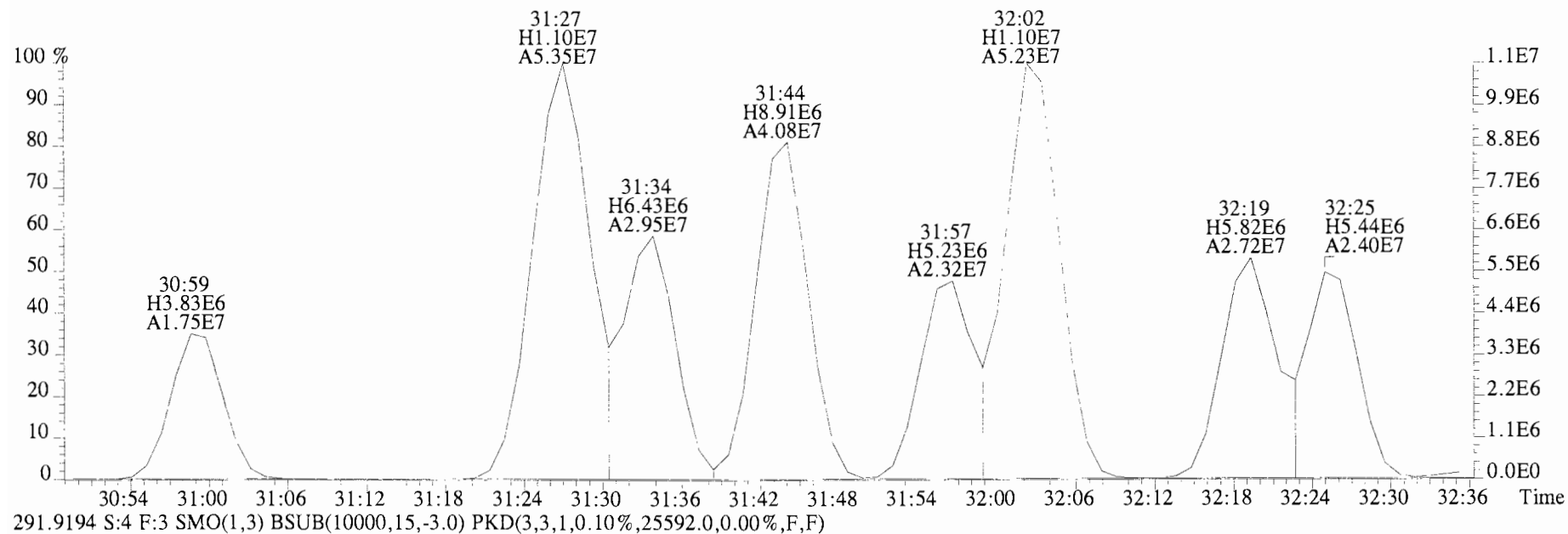
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4840.0,0.00%,F,F)



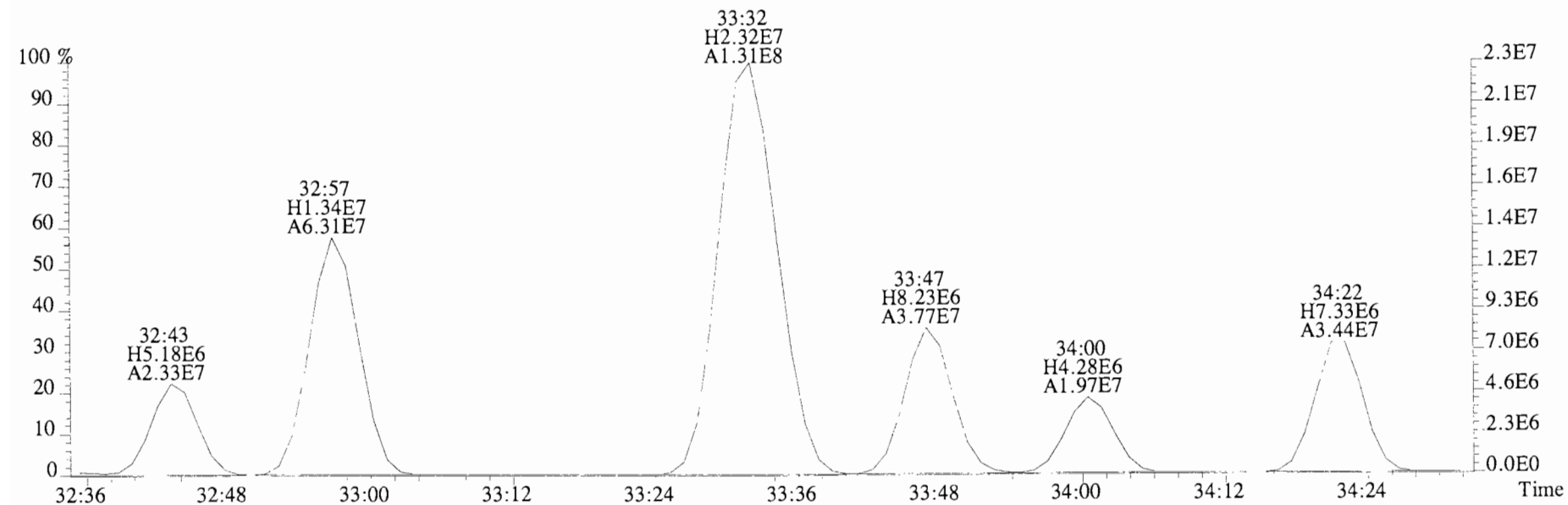
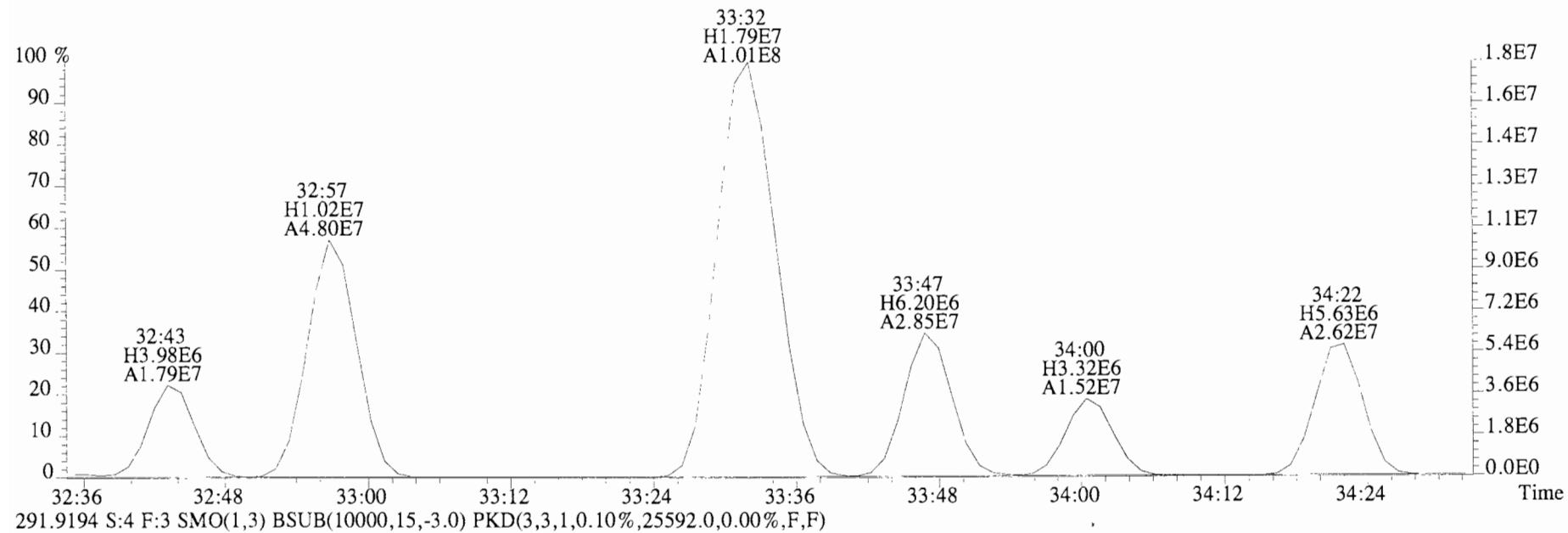
330.9792 S:4 F:3



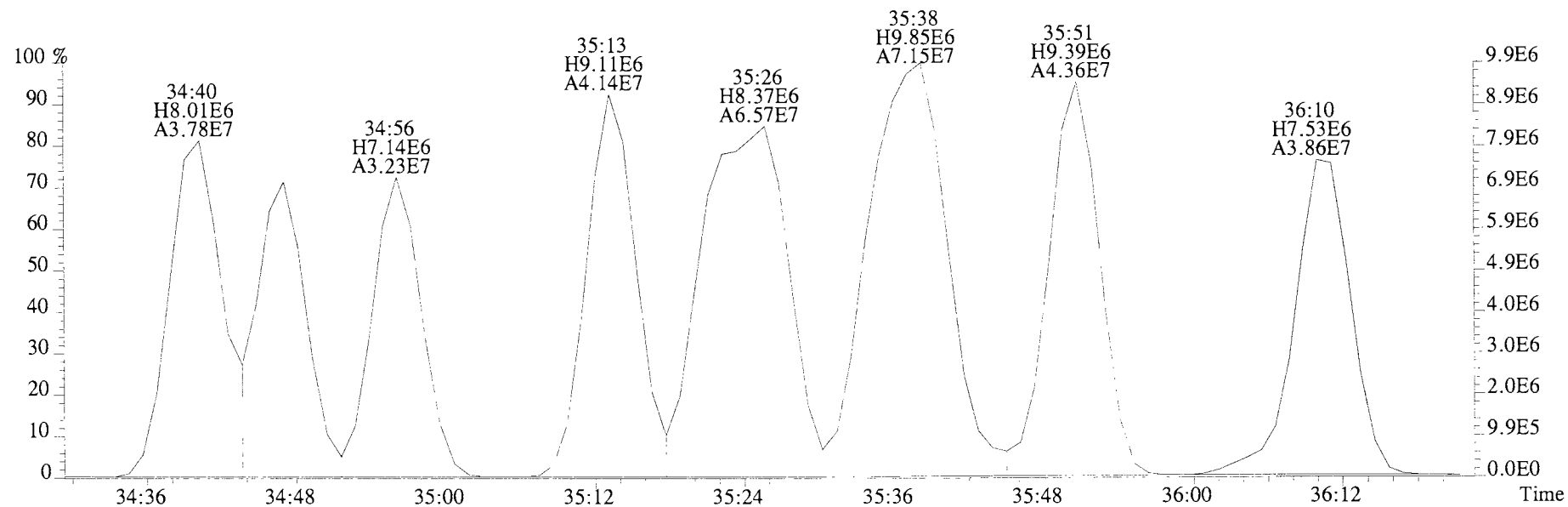
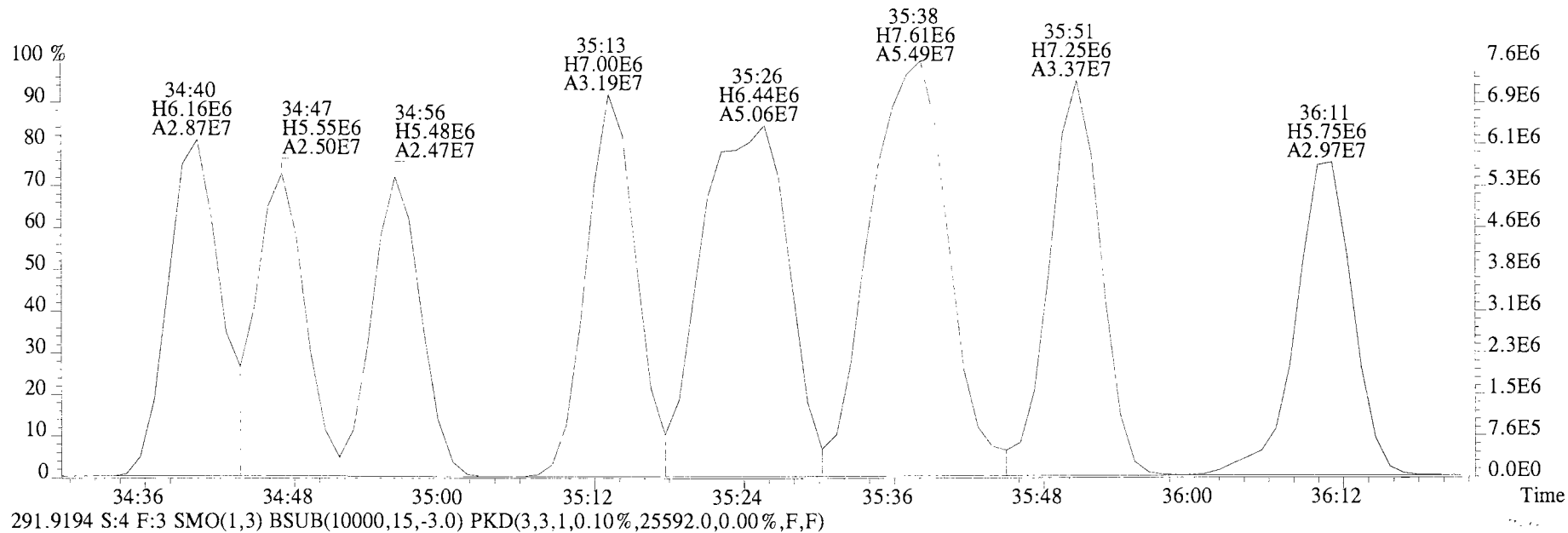
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



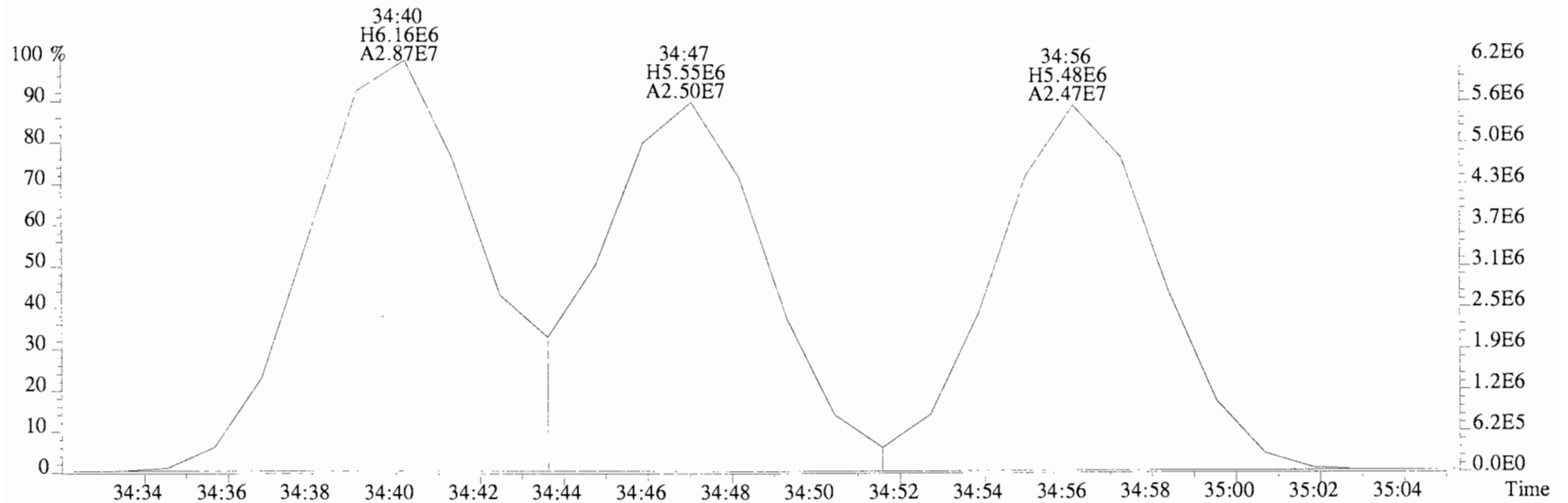
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



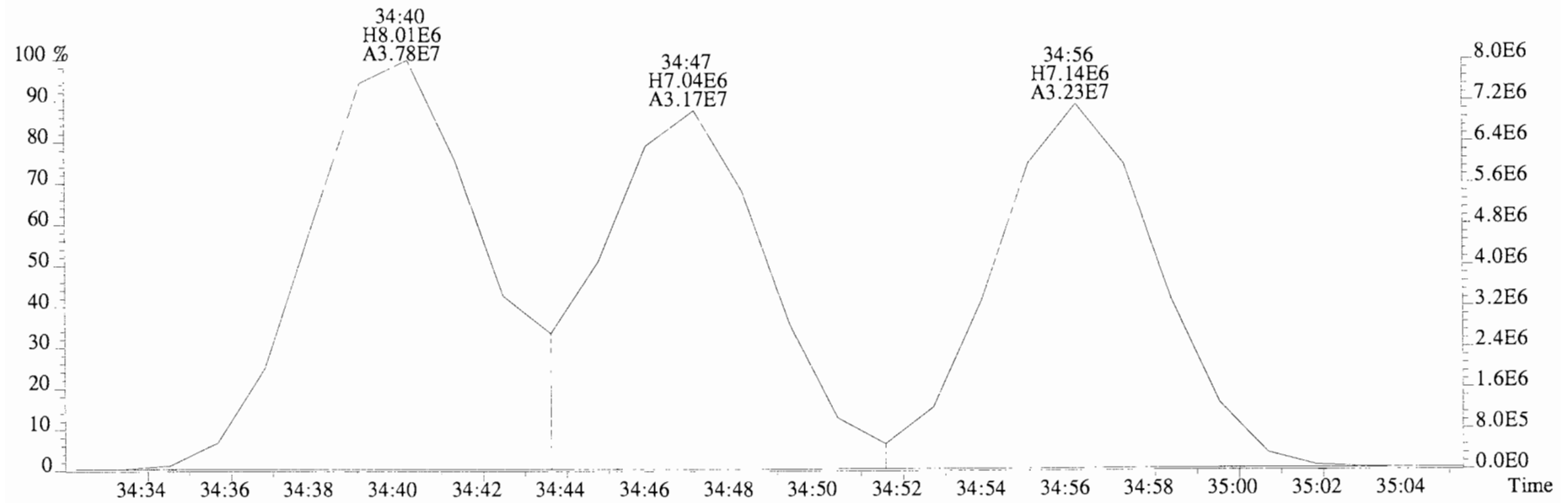
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)



File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26716.0,0.00%,F,F)

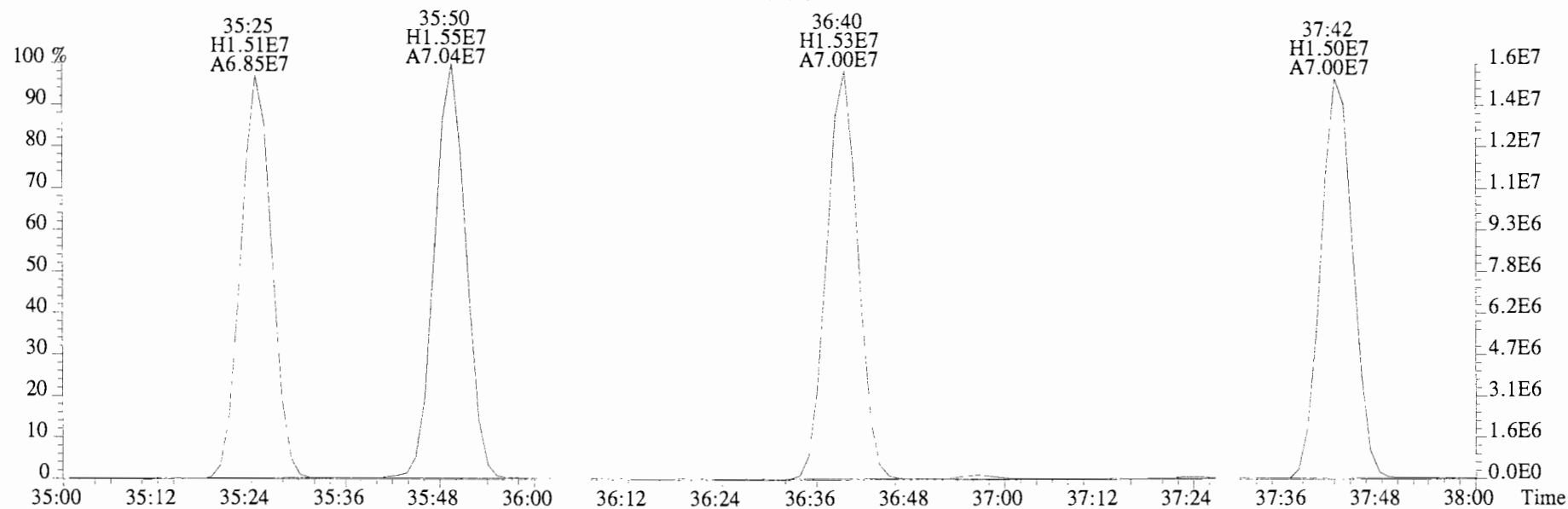
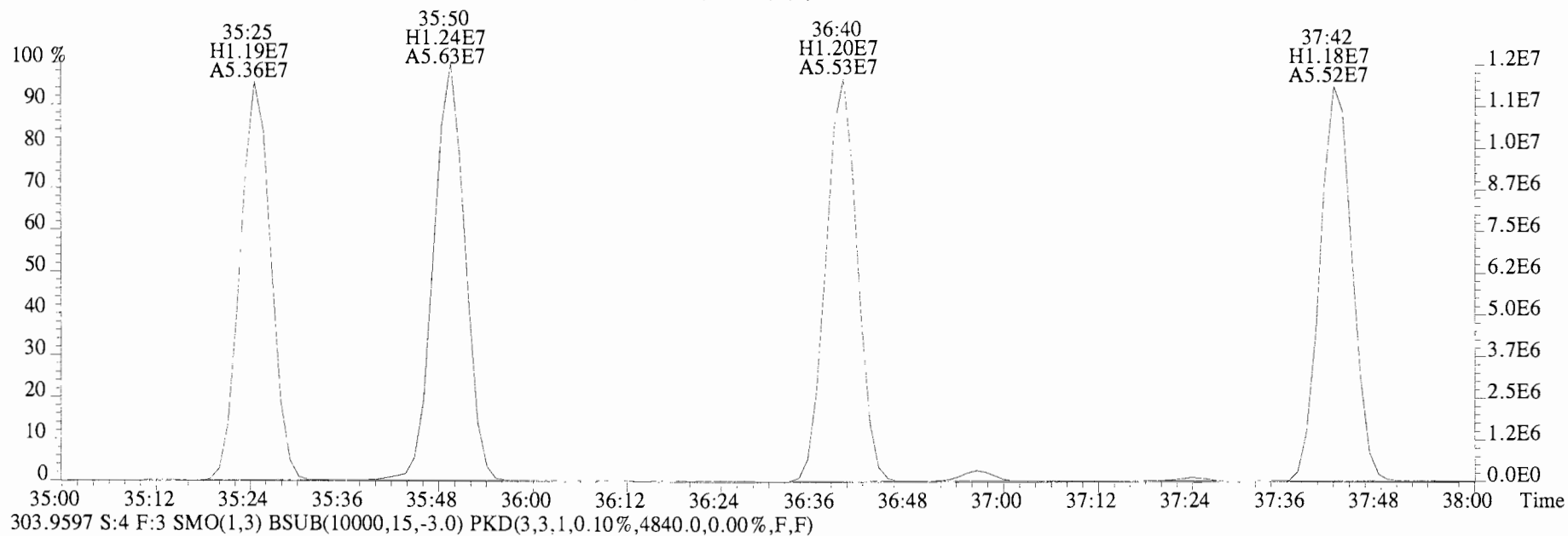


291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25592.0,0.00%,F,F)

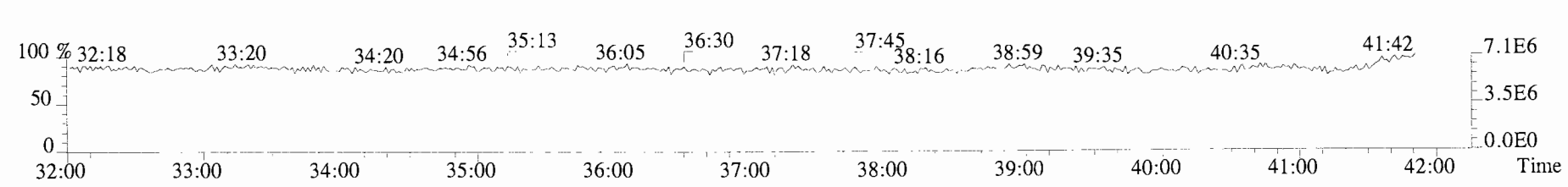
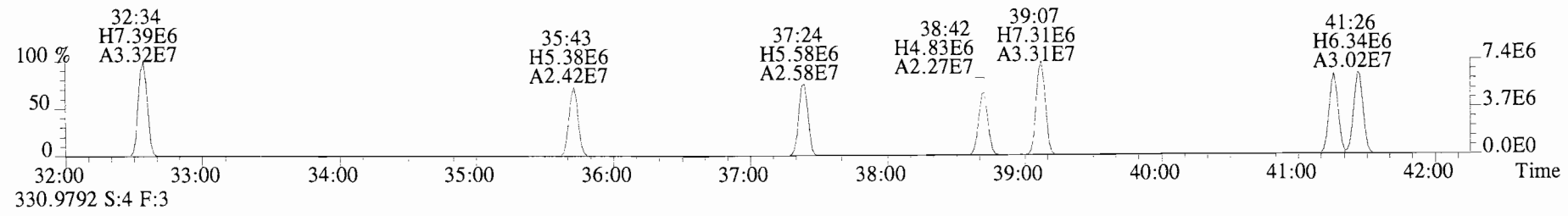
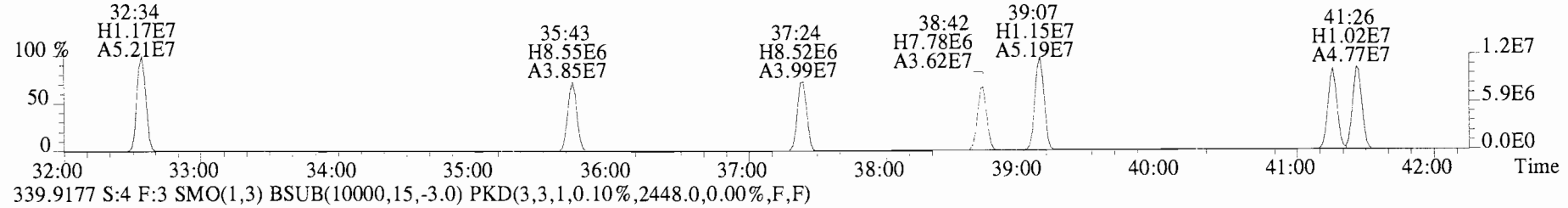
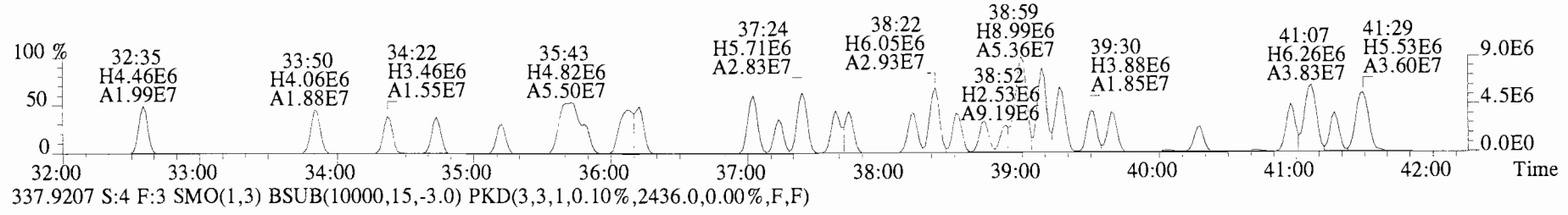
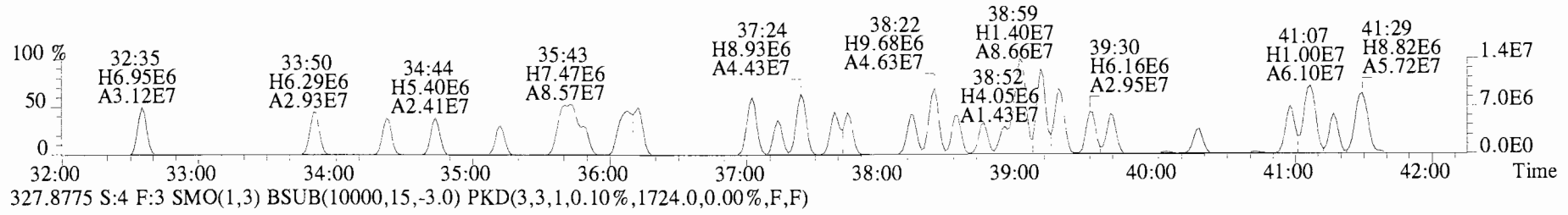




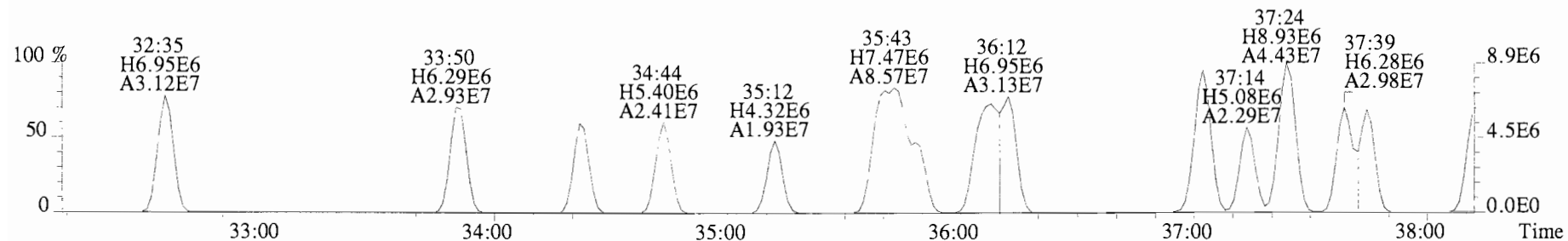
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8924.0,0.00%,F,F)



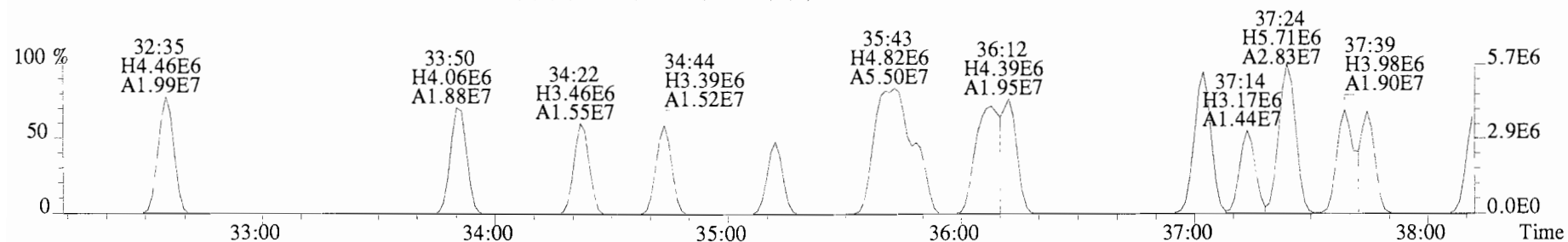
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)



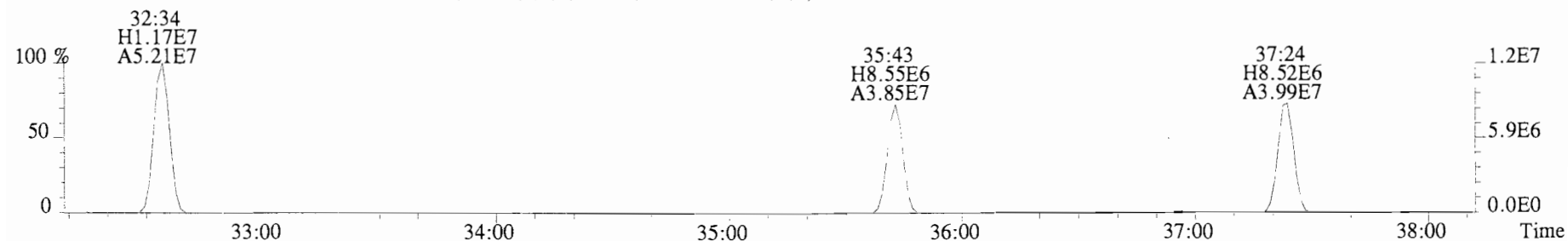
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)



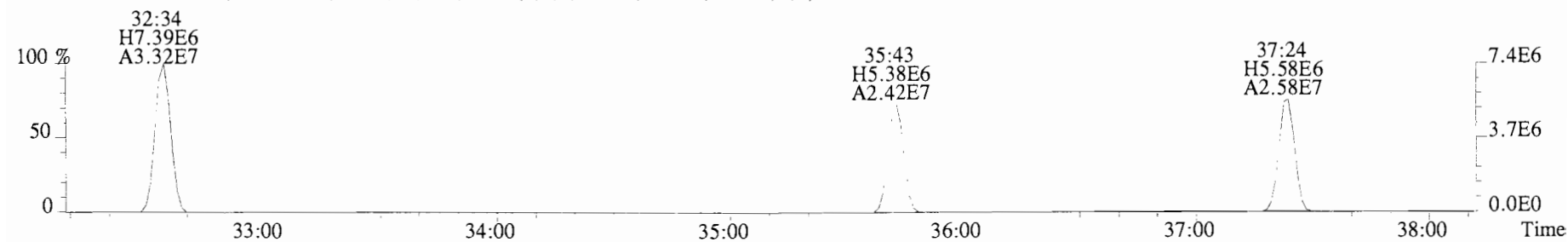
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1724.0,0.00%,F,F)



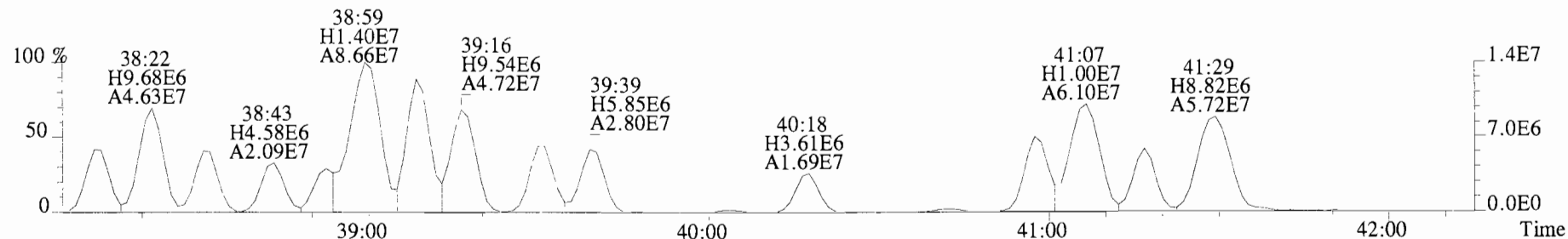
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2436.0,0.00%,F,F)



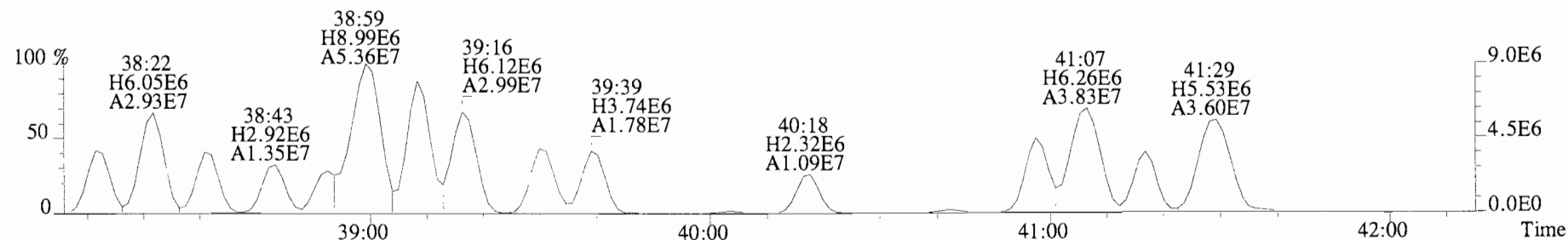
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



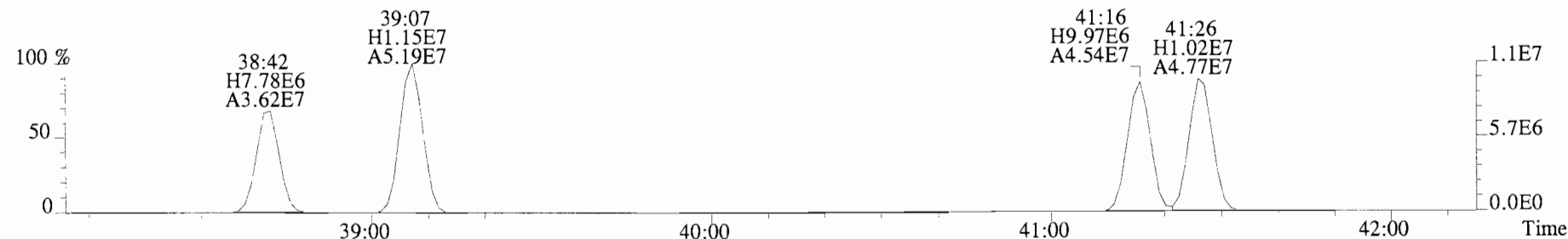
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)



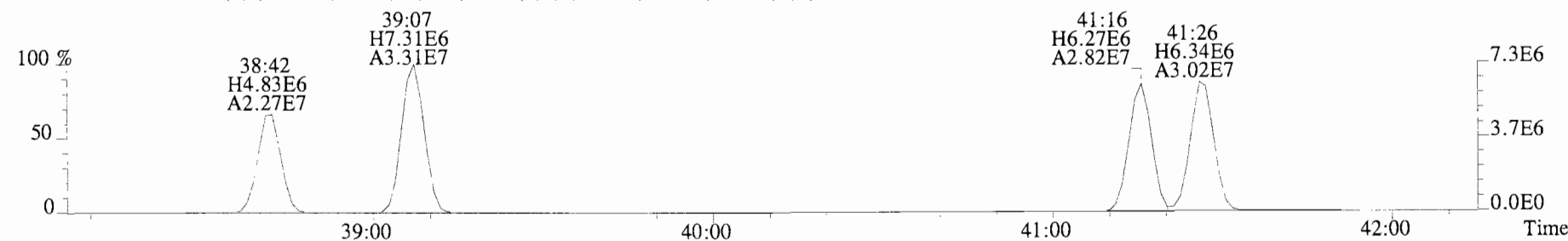
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1724.0,0.00%,F,F)



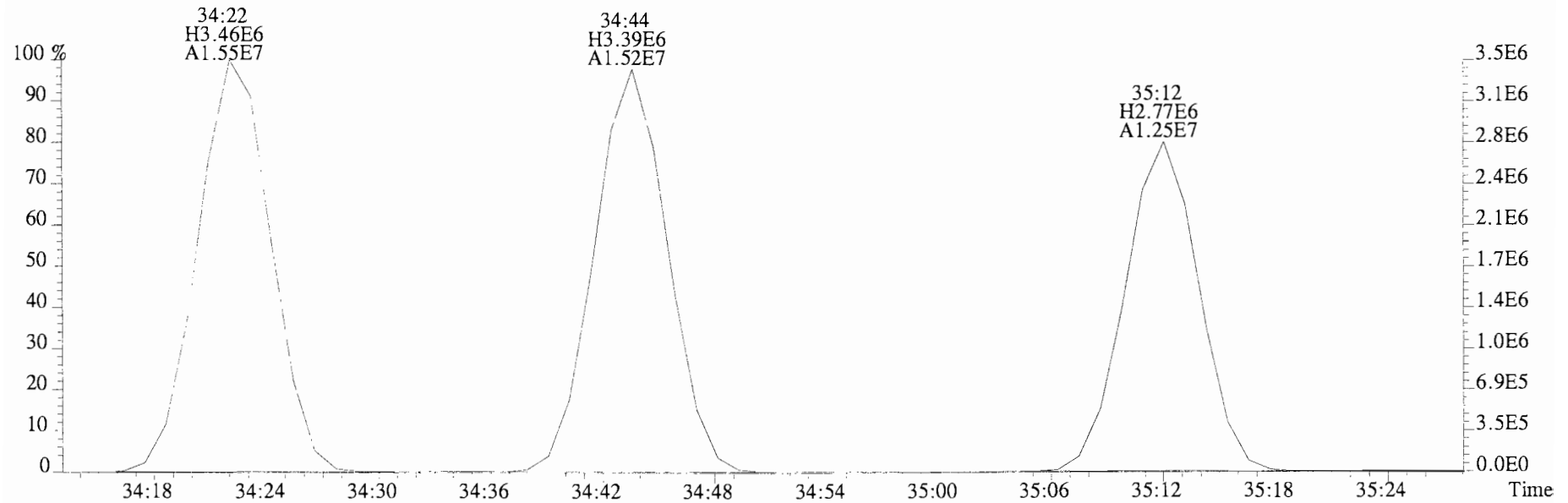
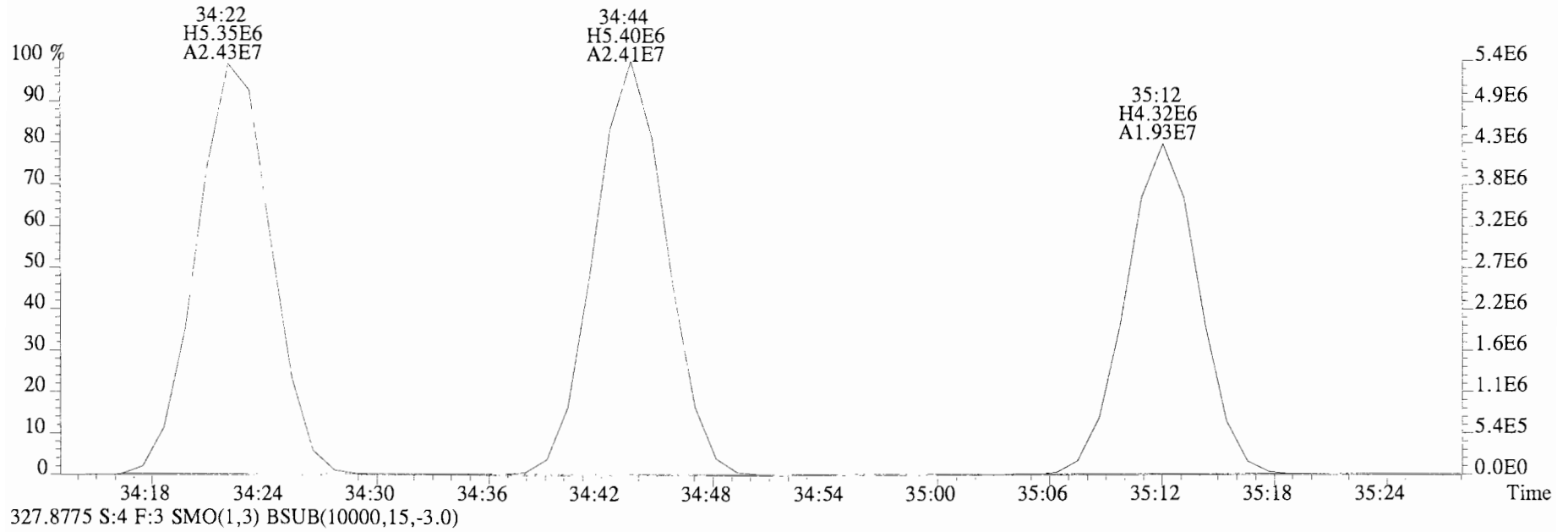
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2436.0,0.00%,F,F)



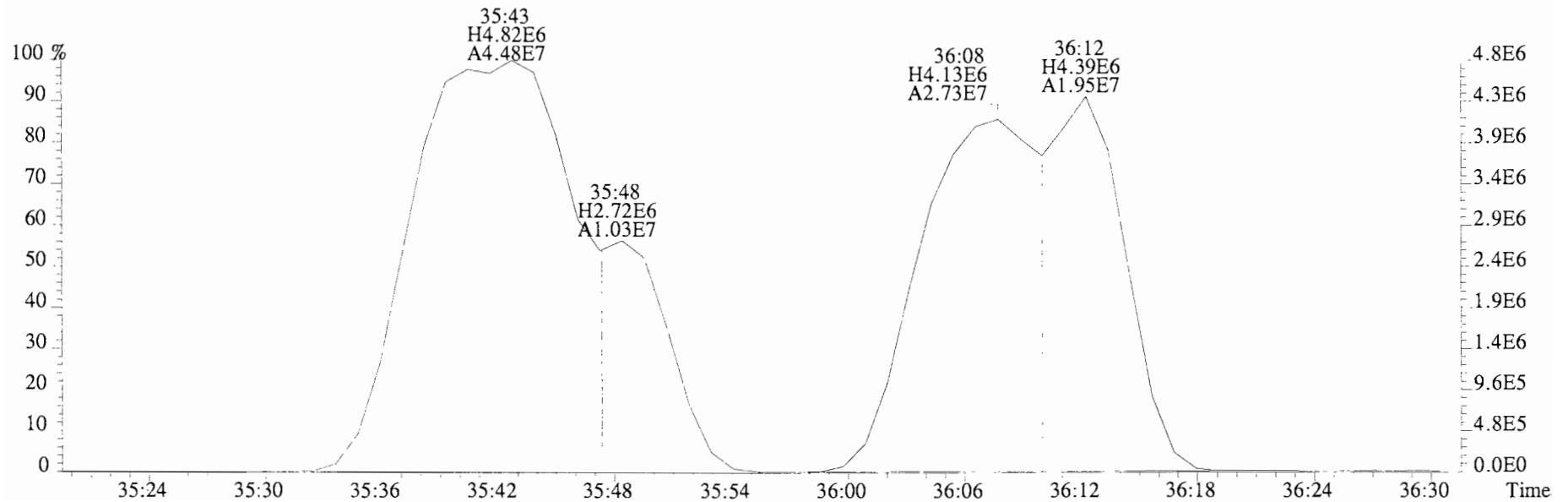
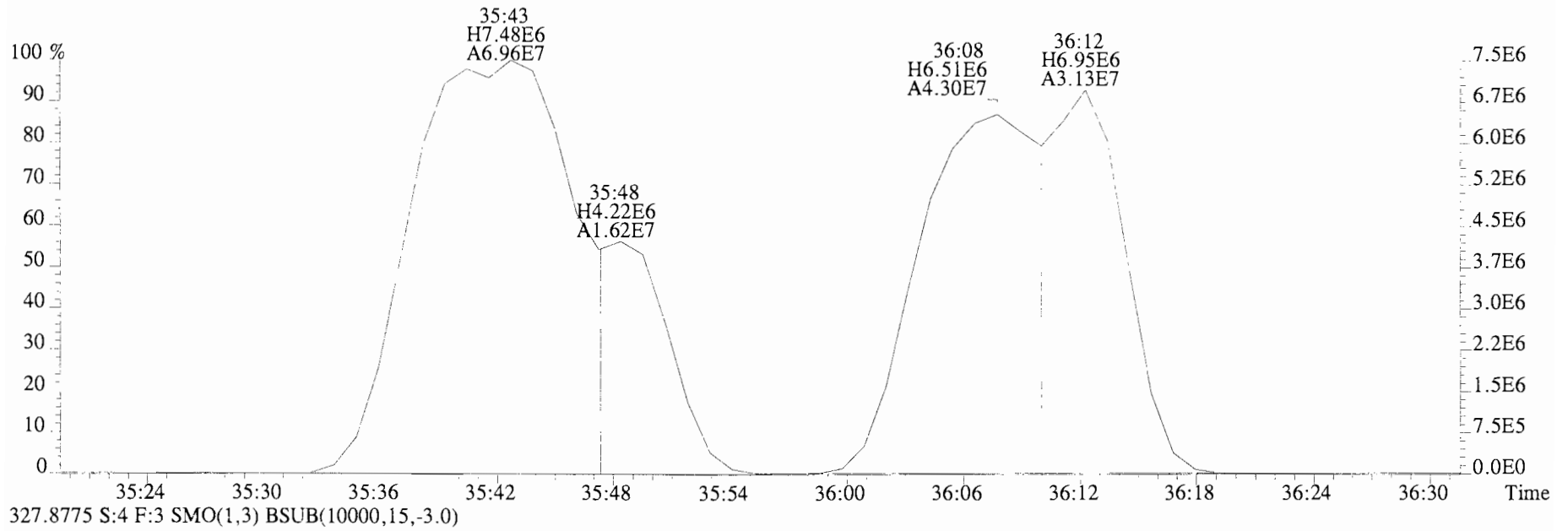
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



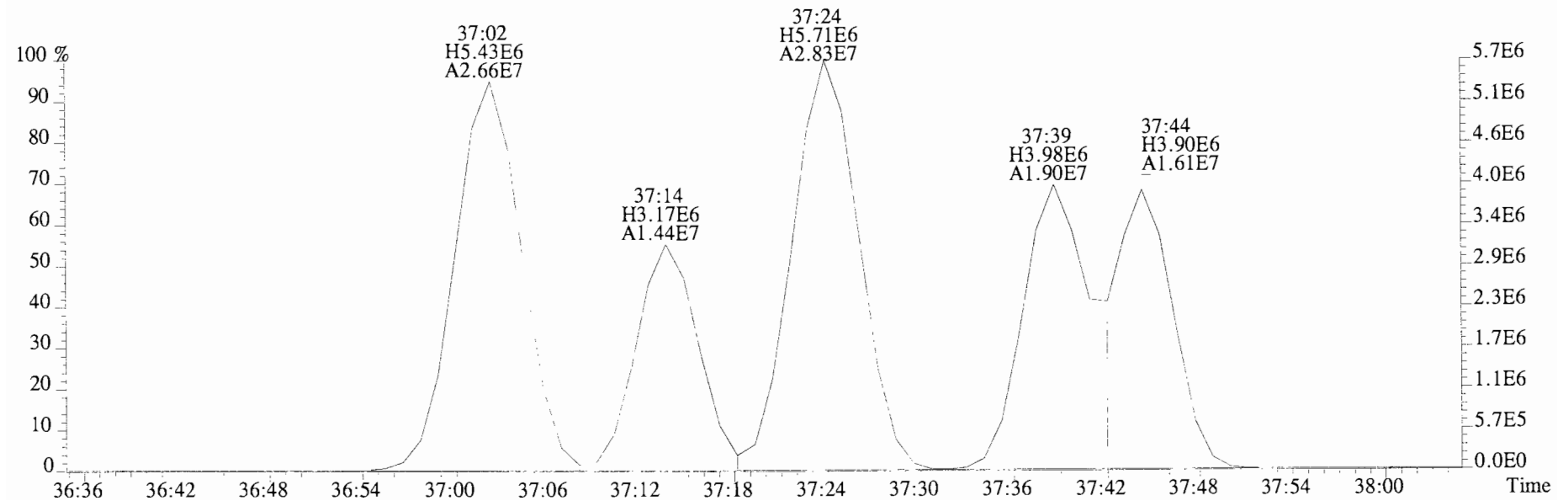
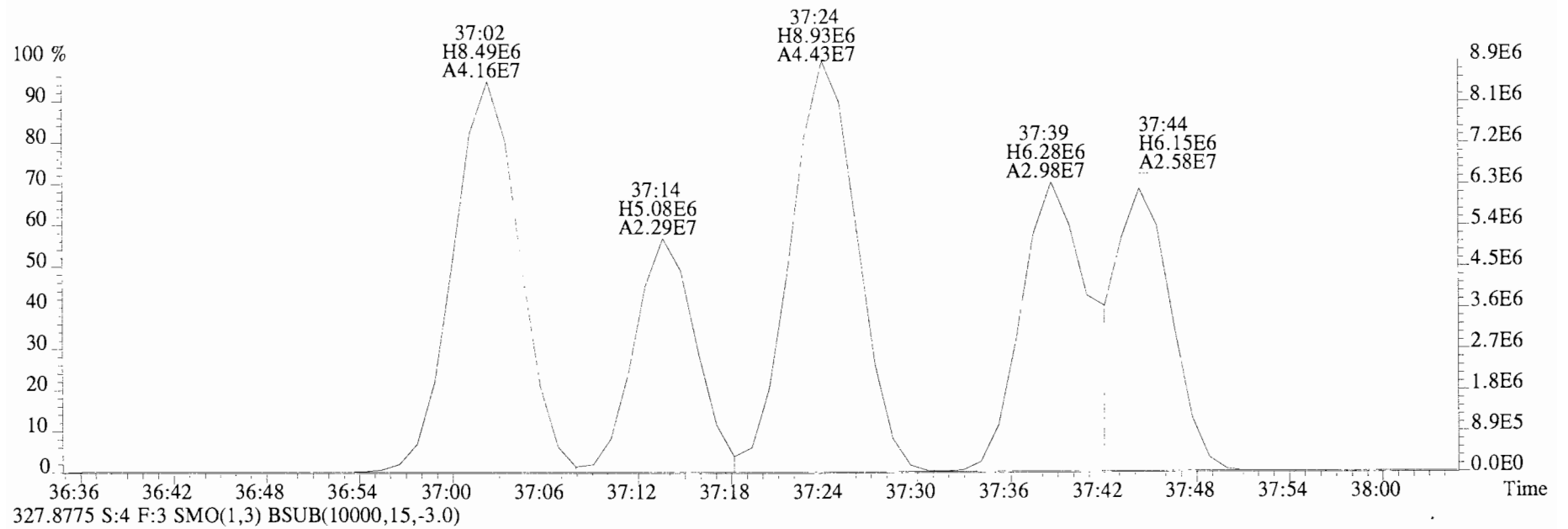
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



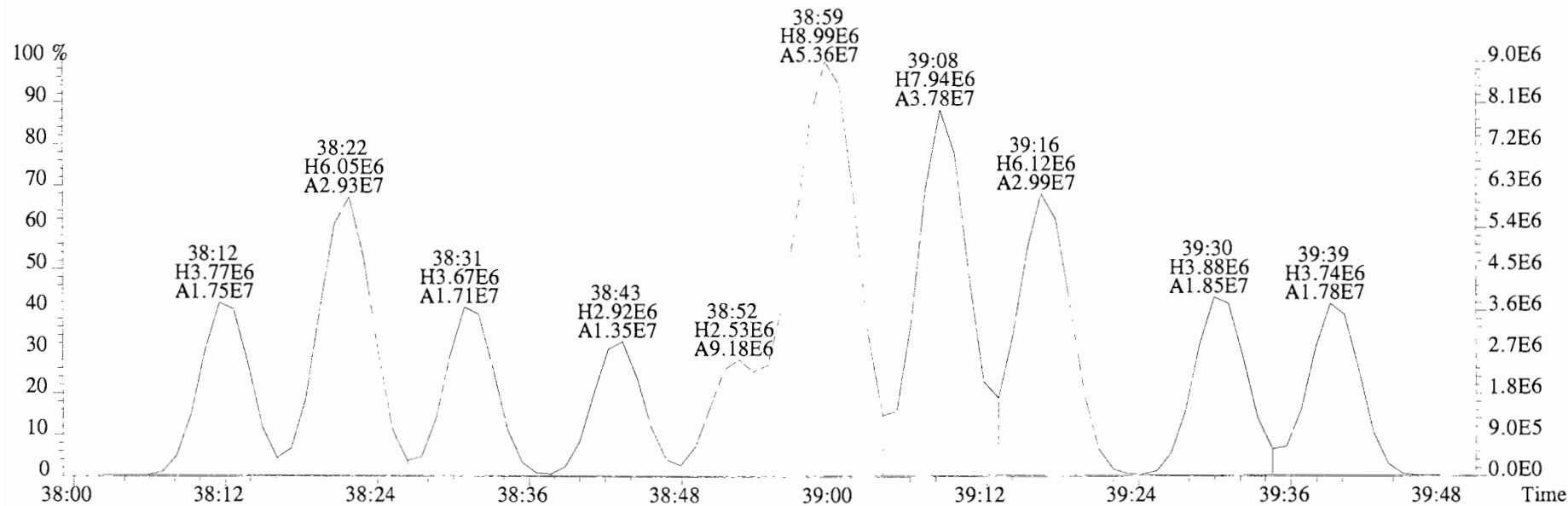
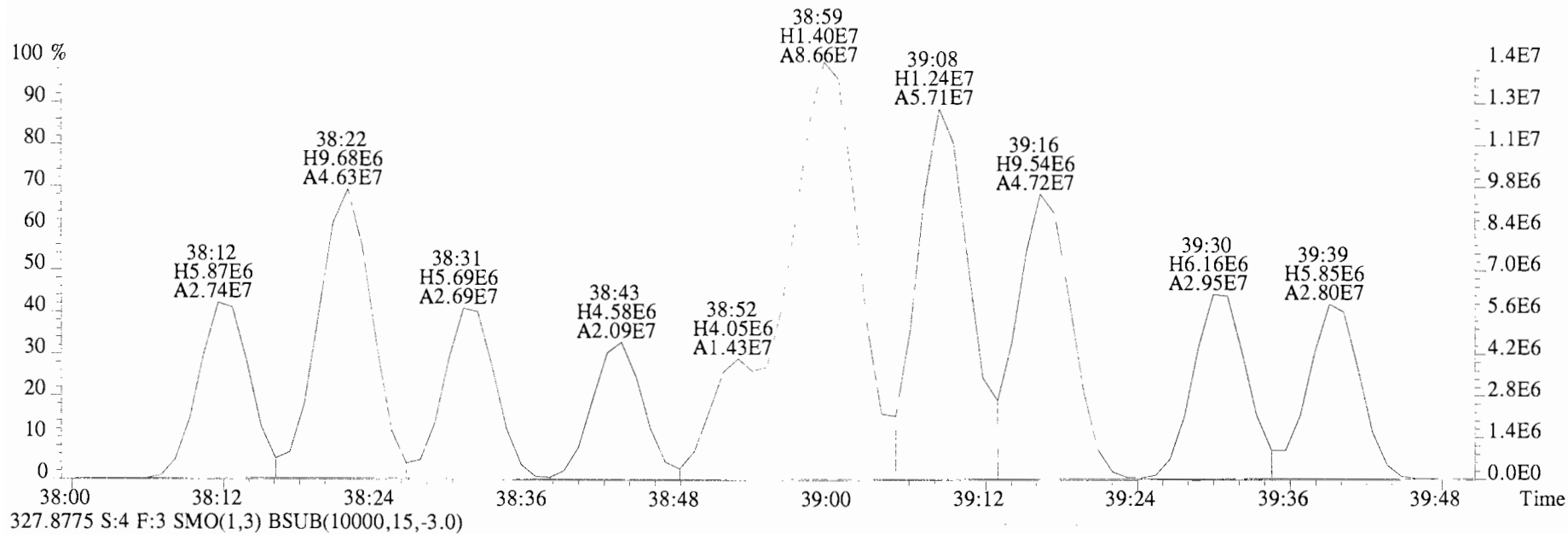
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)

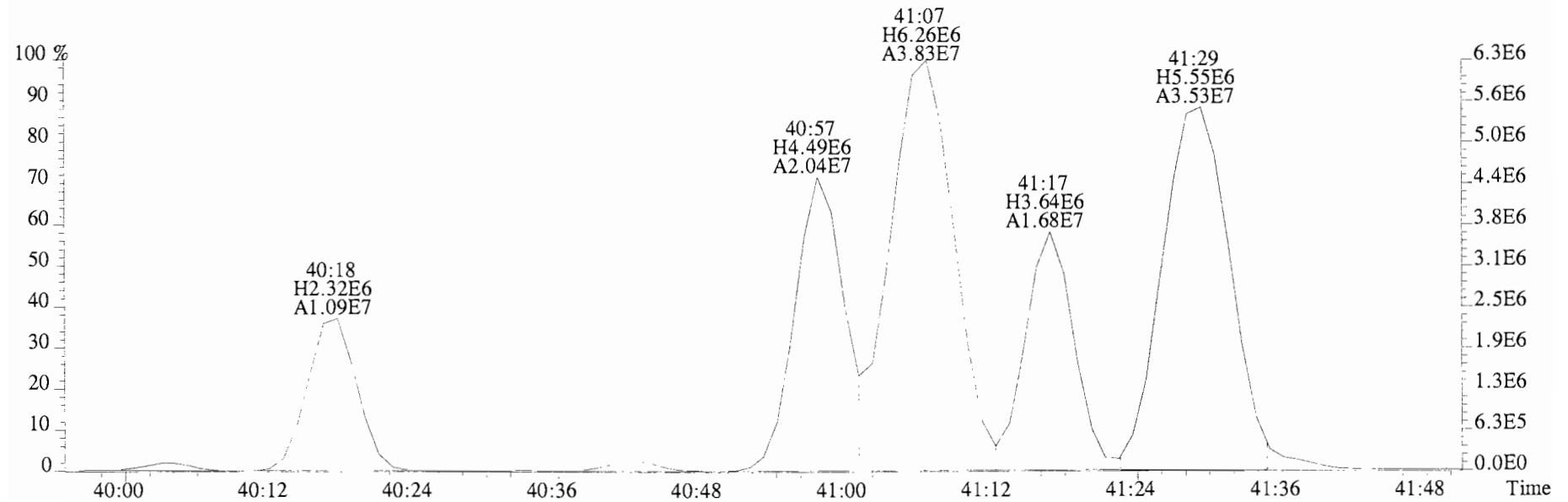
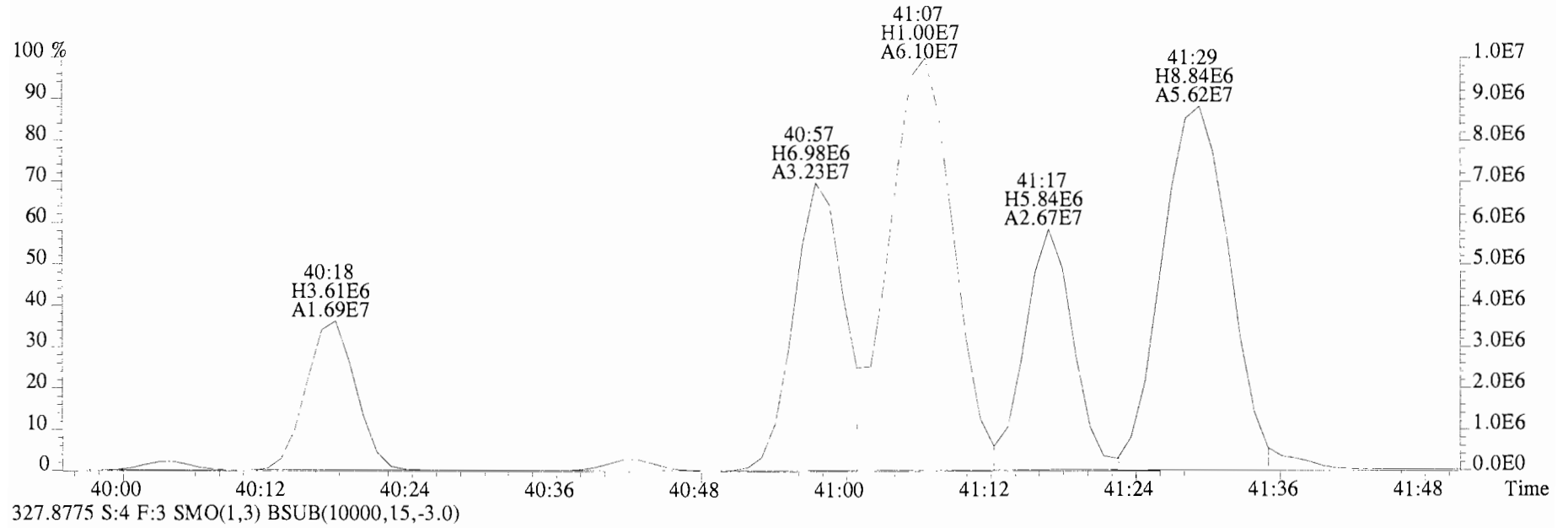


File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)

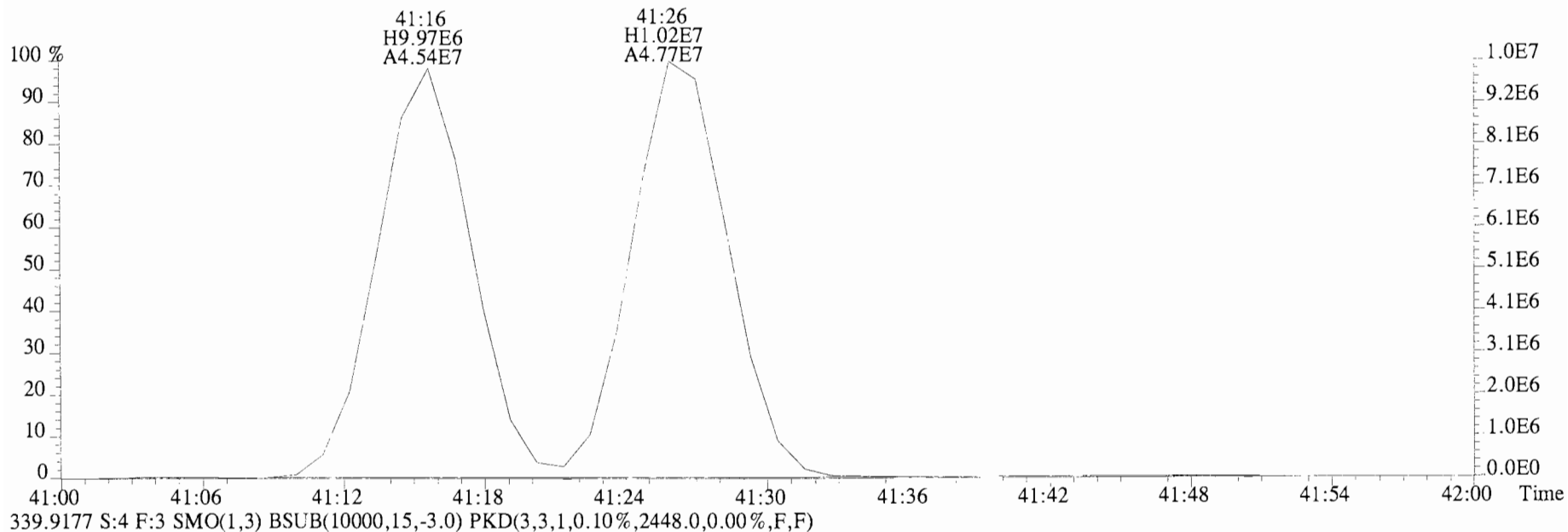




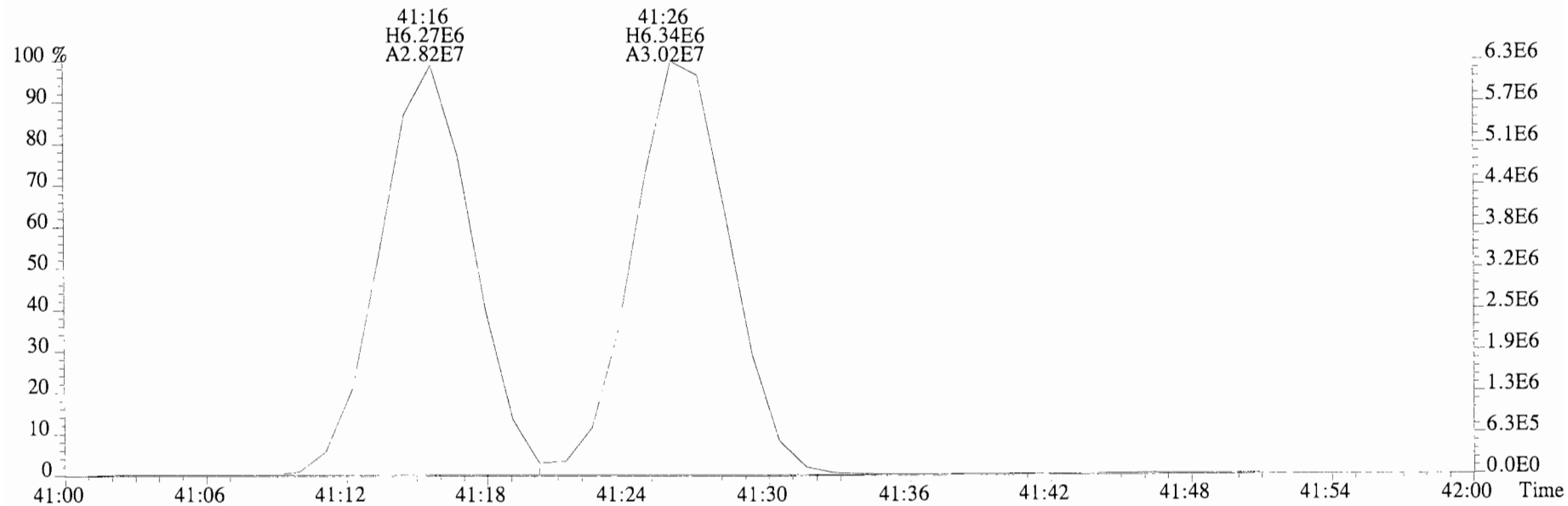
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



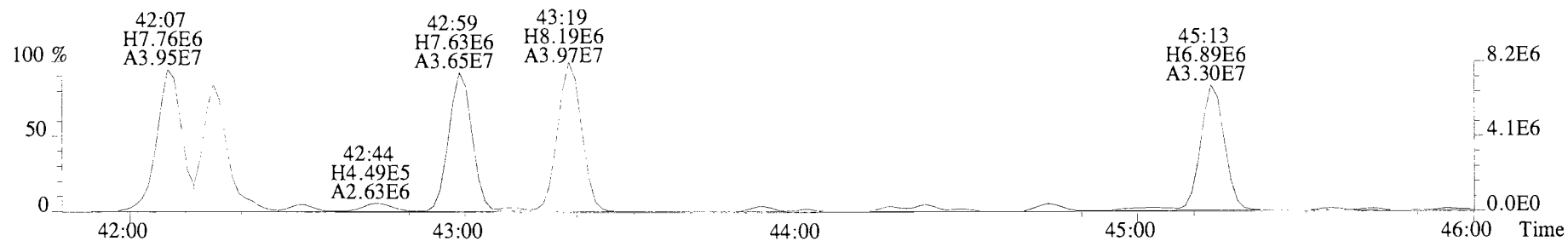
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2436.0,0.00%,F,F)



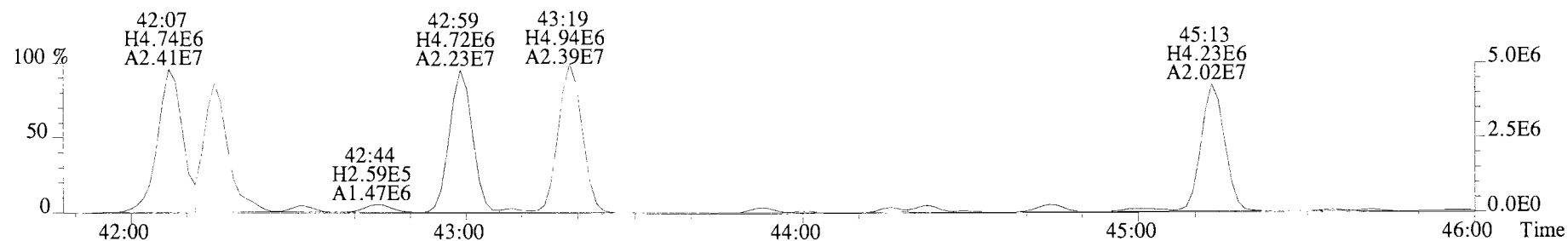
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2448.0,0.00%,F,F)



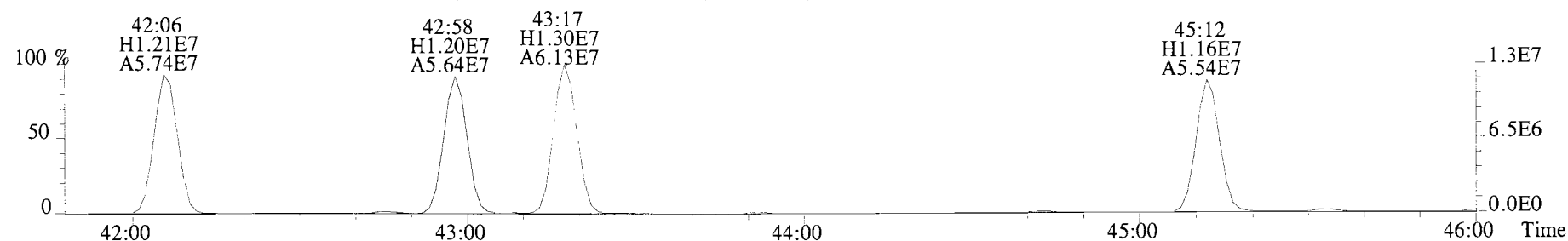
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8260.0,0.00%,F,F)



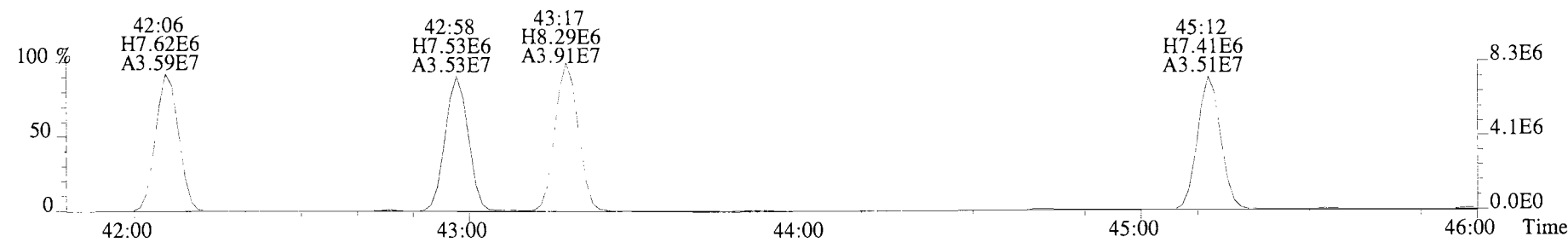
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10312.0,0.00%,F,F)



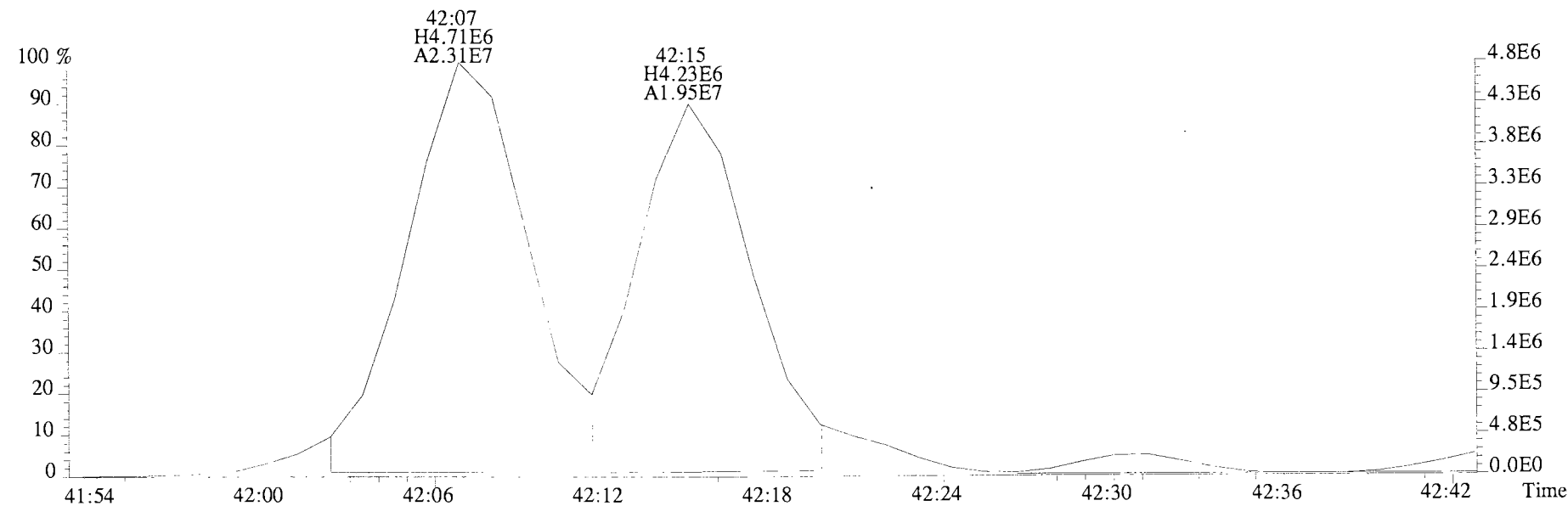
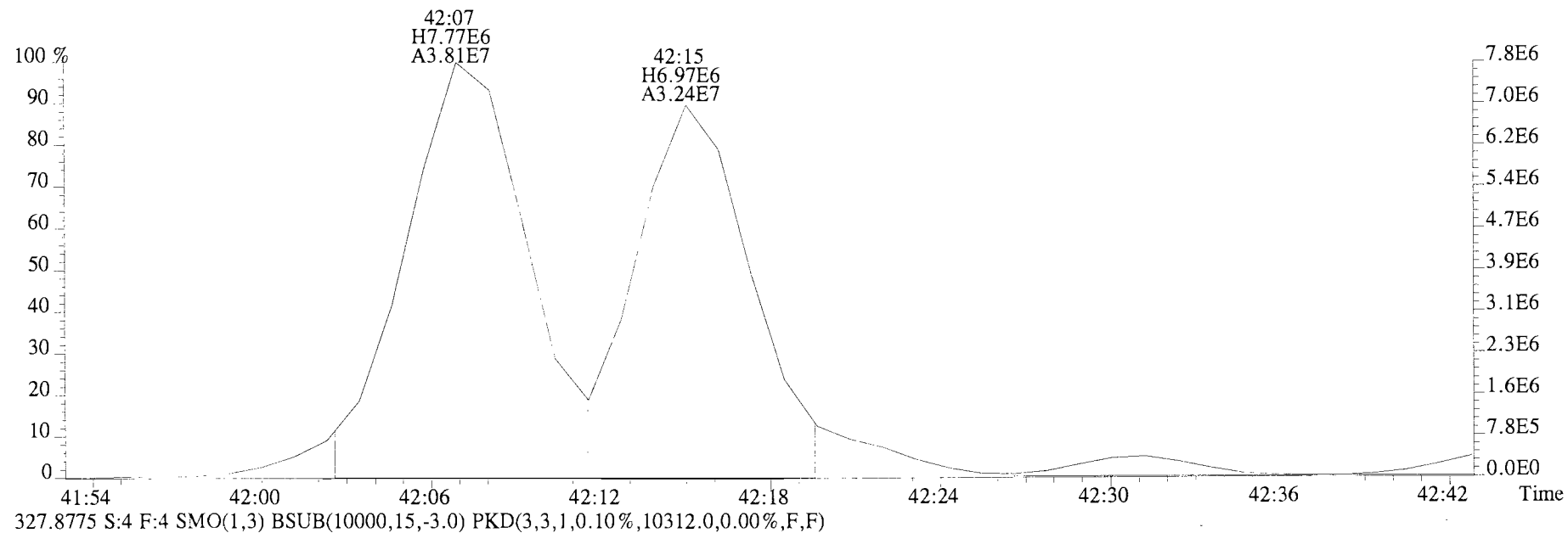
337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9288.0,0.00%,F,F)



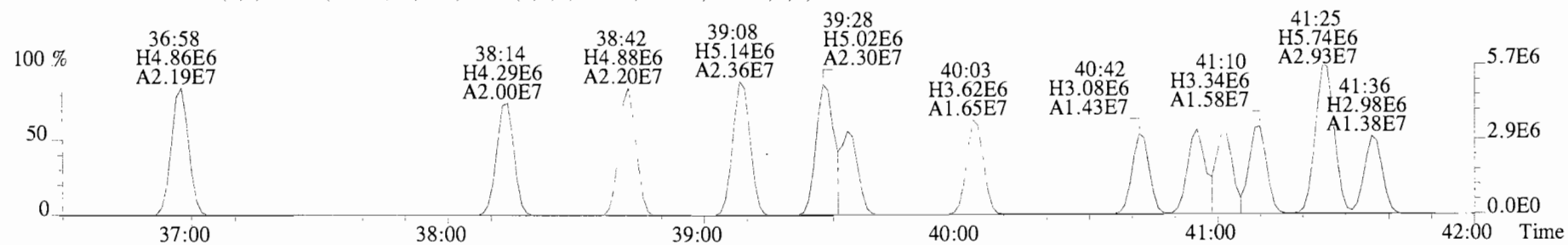
339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6288.0,0.00%,F,F)



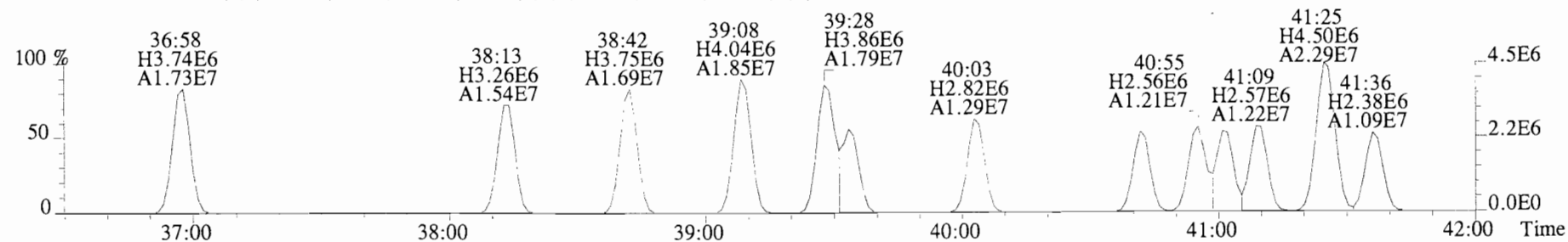
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8260.0,0.00%,F,F)



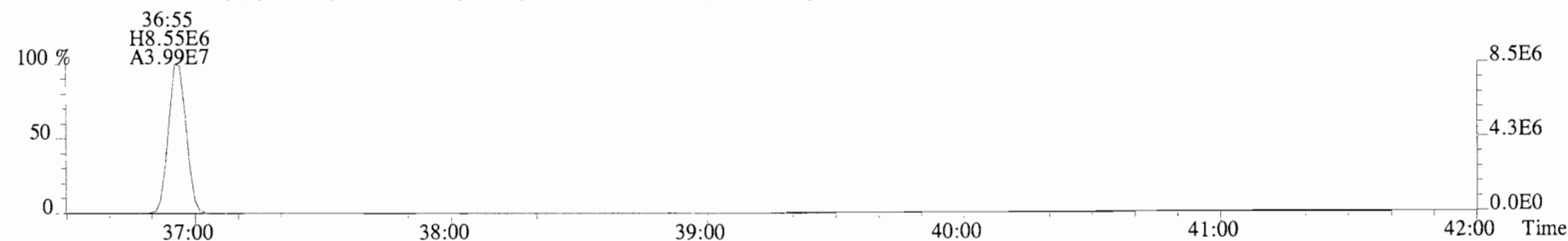
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



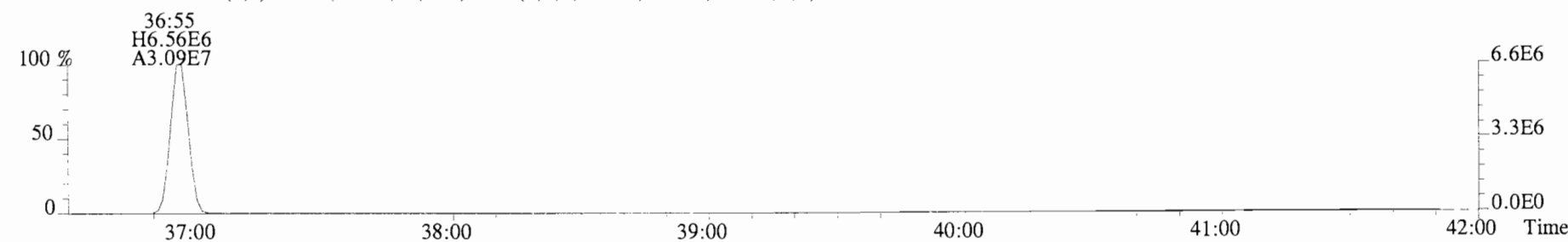
361.8385 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1248.0,0.00%,F,F)



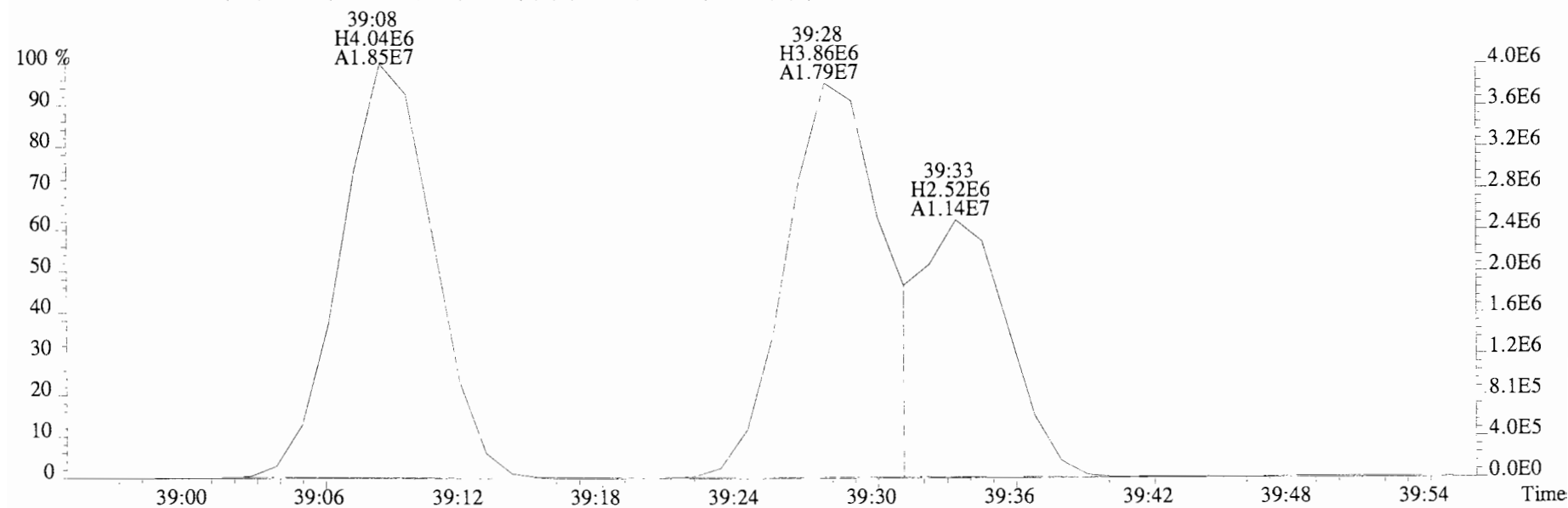
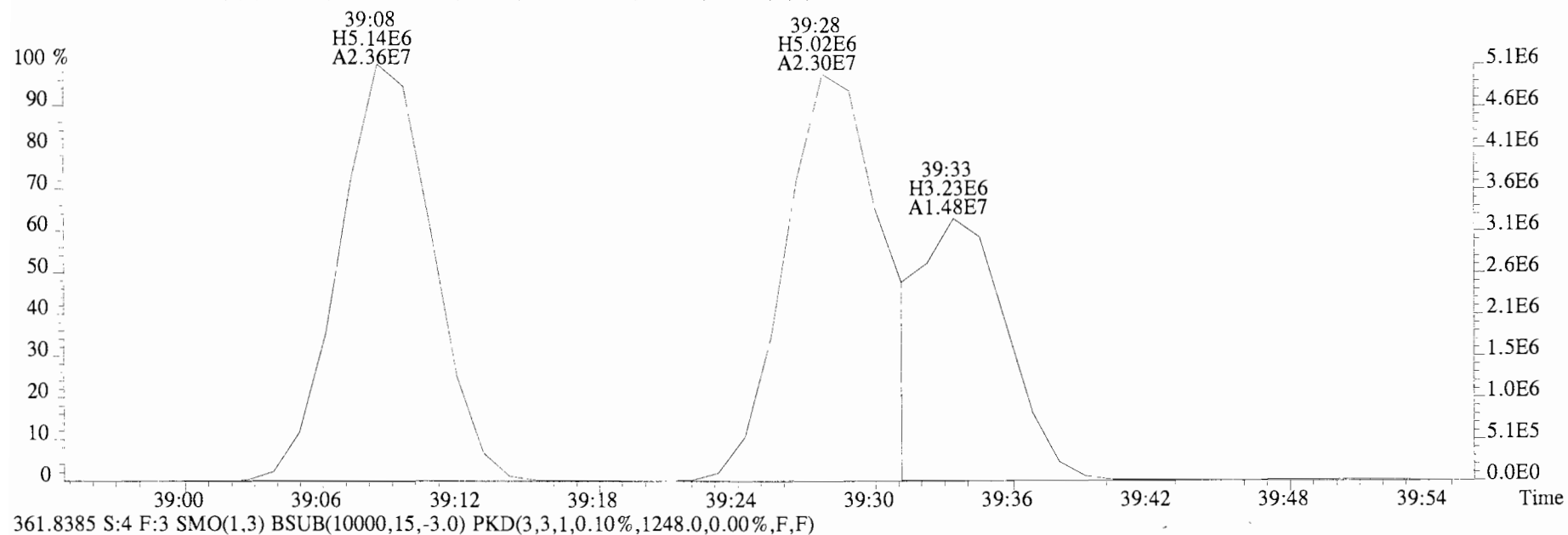
371.8817 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



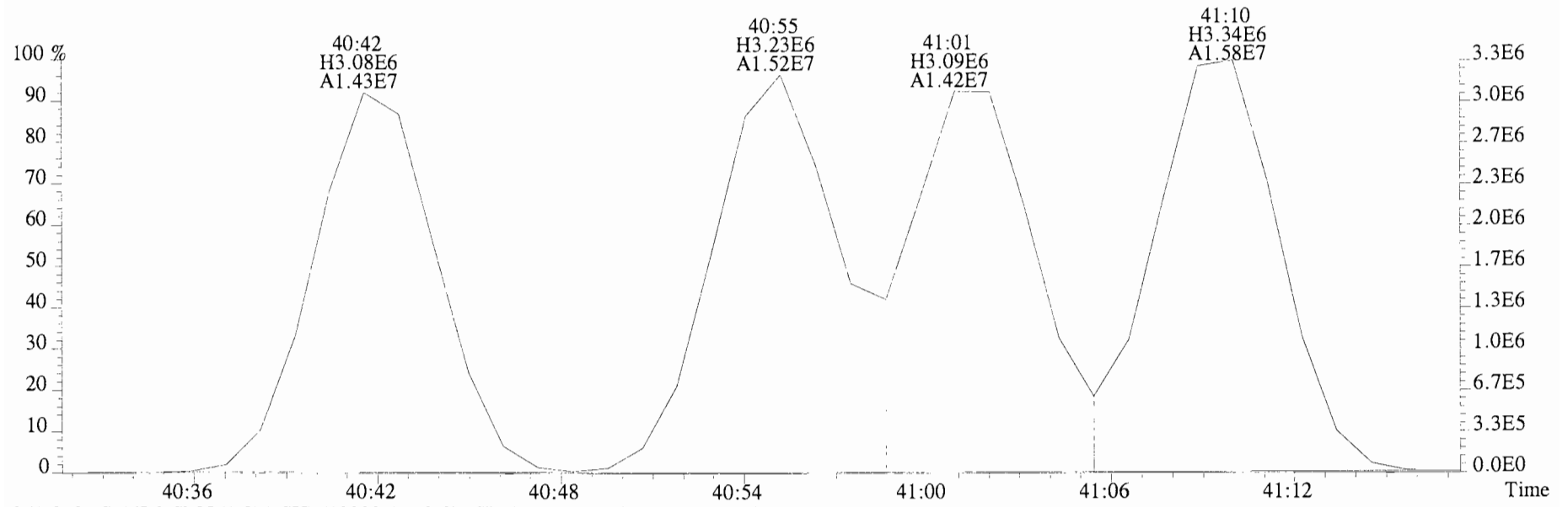
373.8788 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)



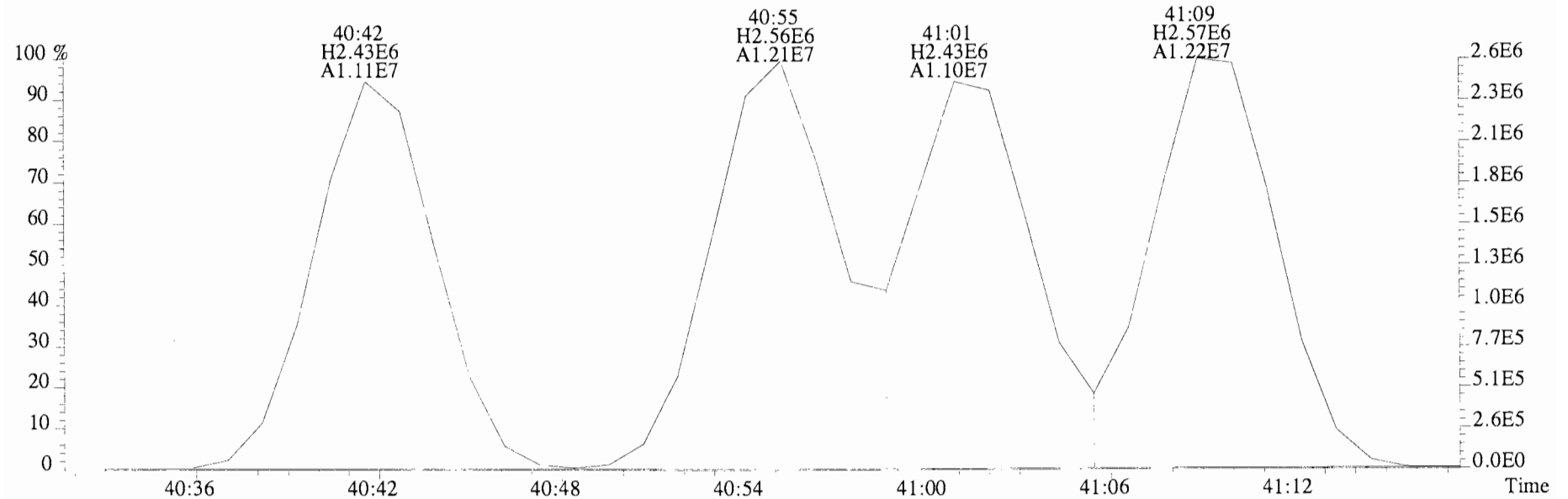
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



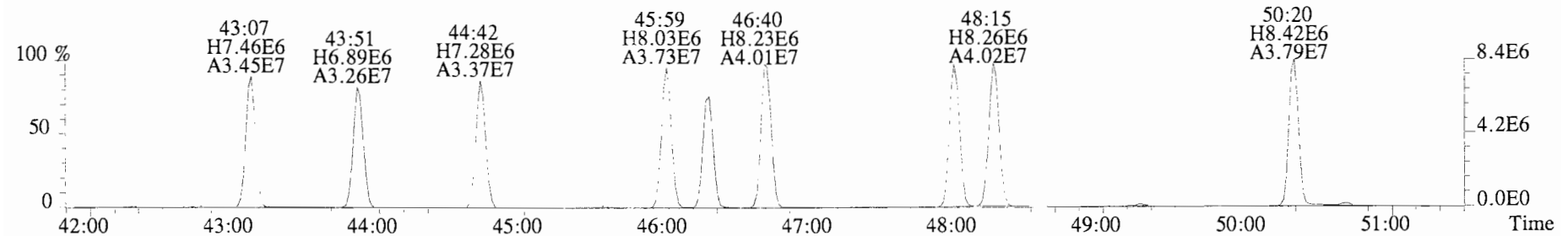
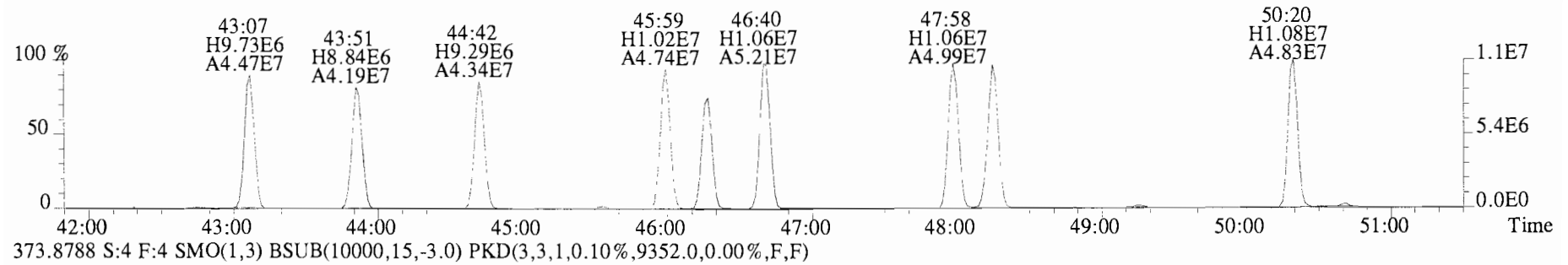
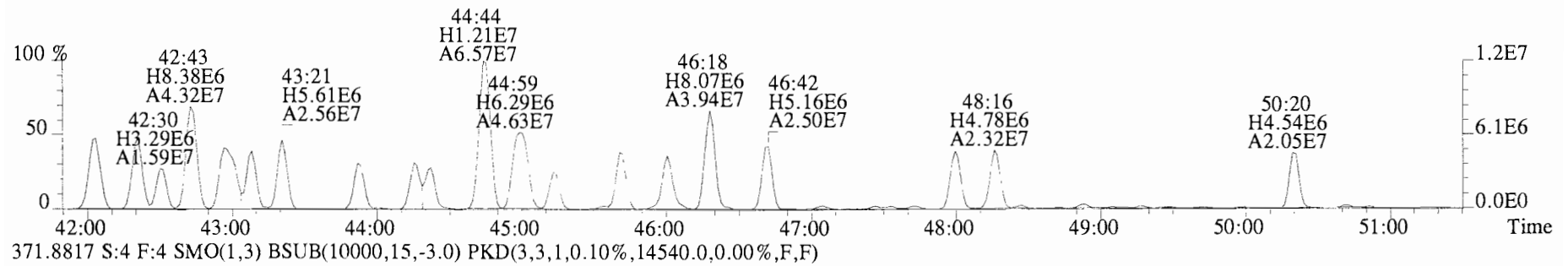
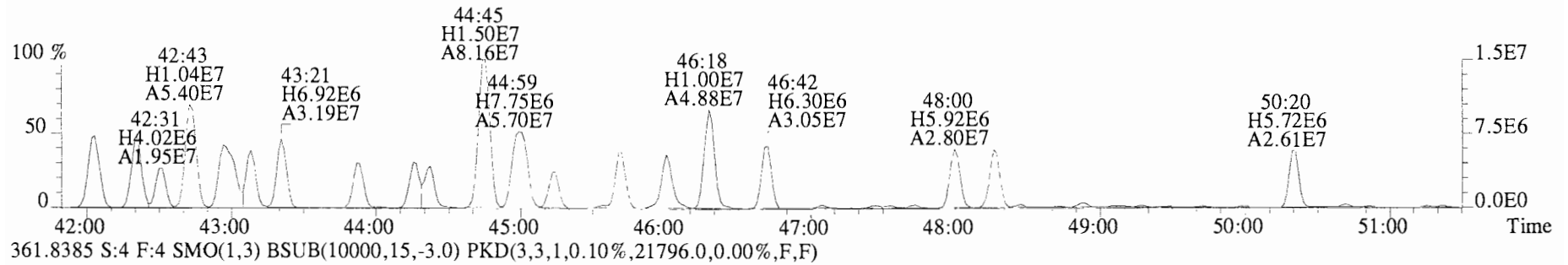
File:140623E2 #1-761 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)



361.8385 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1248.0,0.00%,F,F)

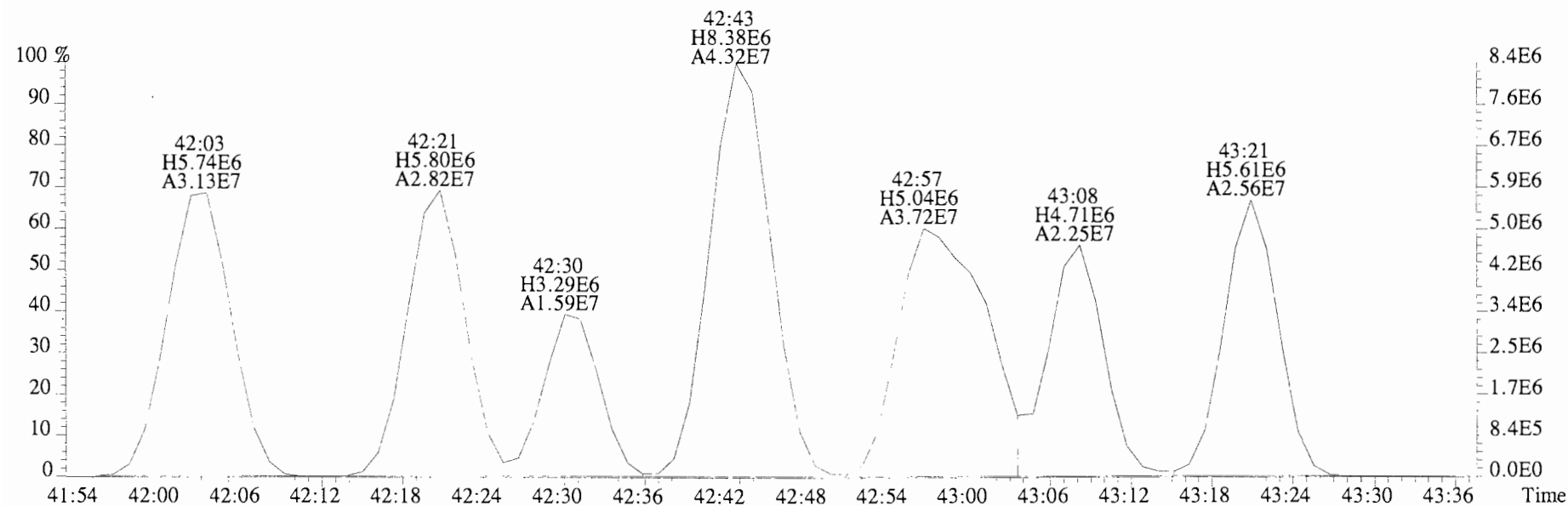
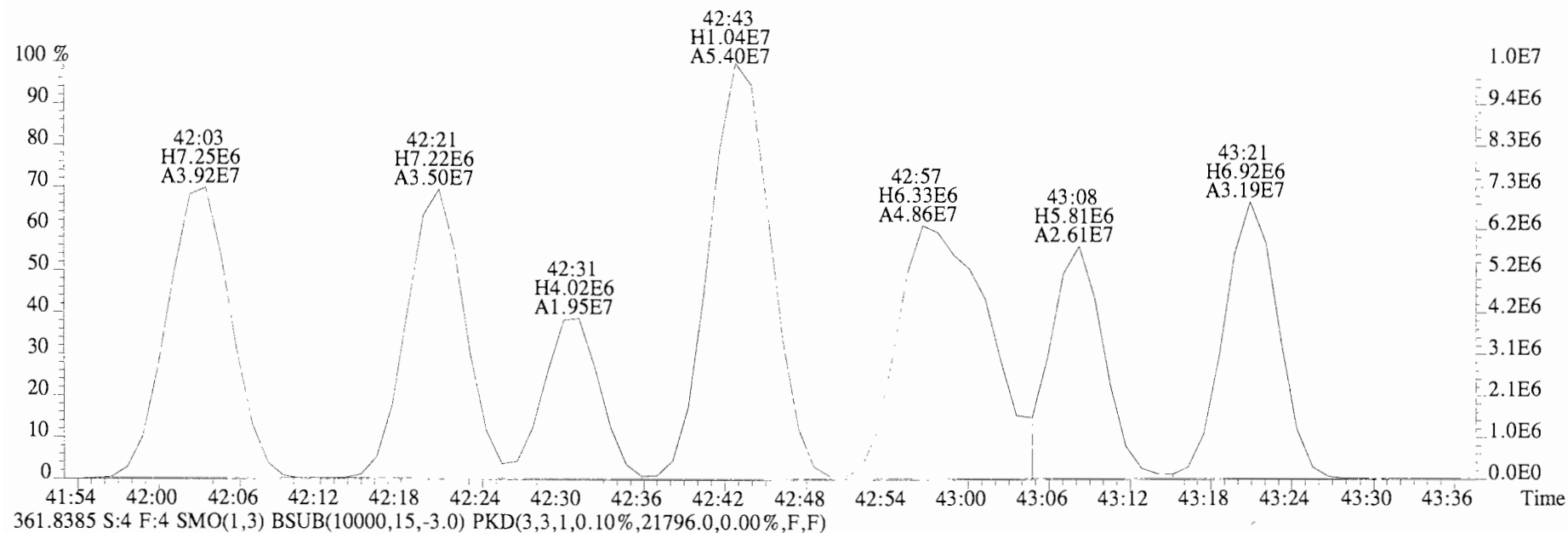


File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30252.0,0.00%,F,F)

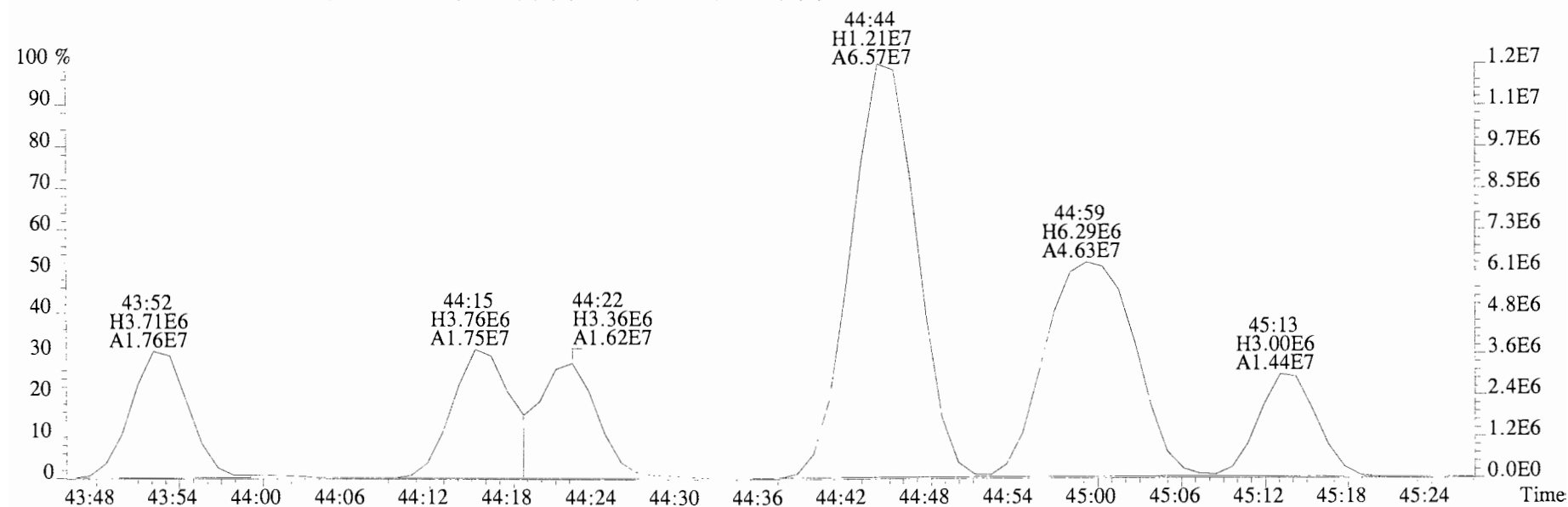
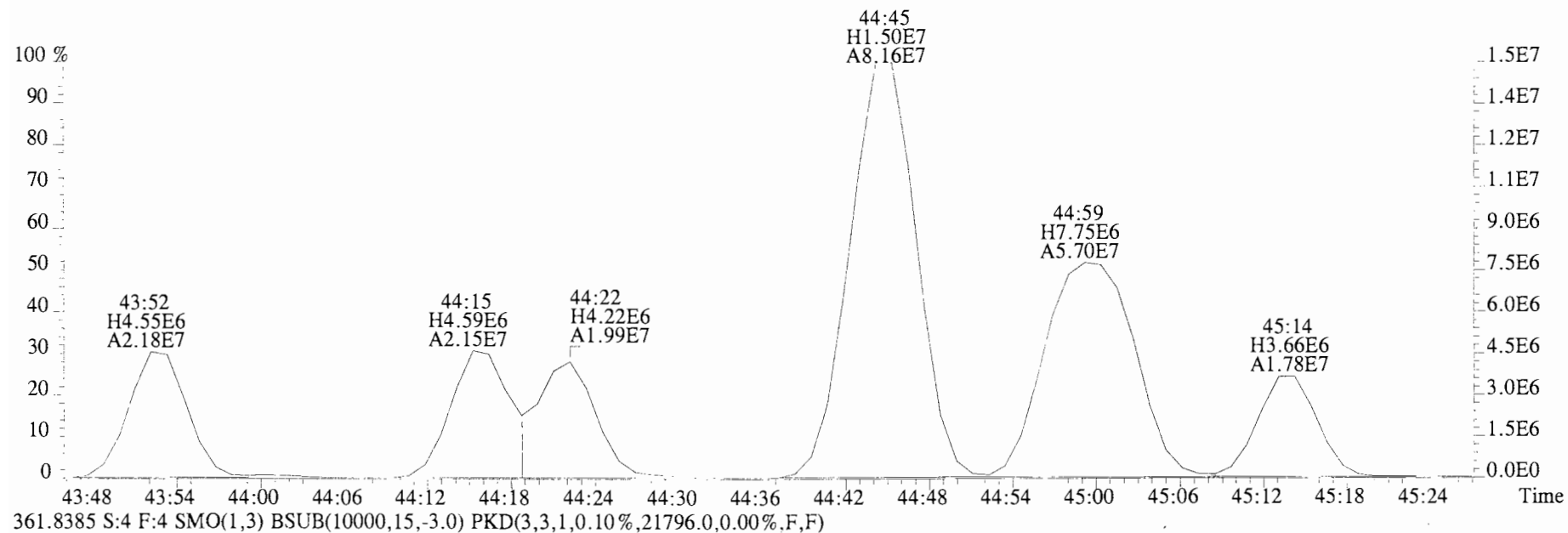




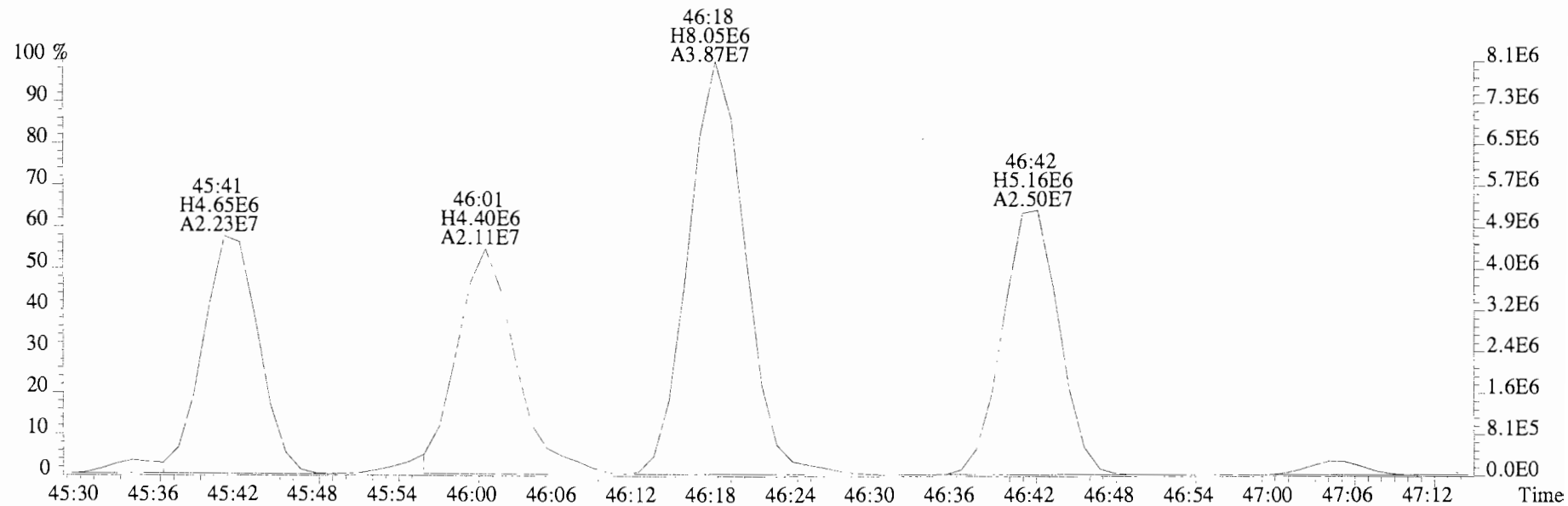
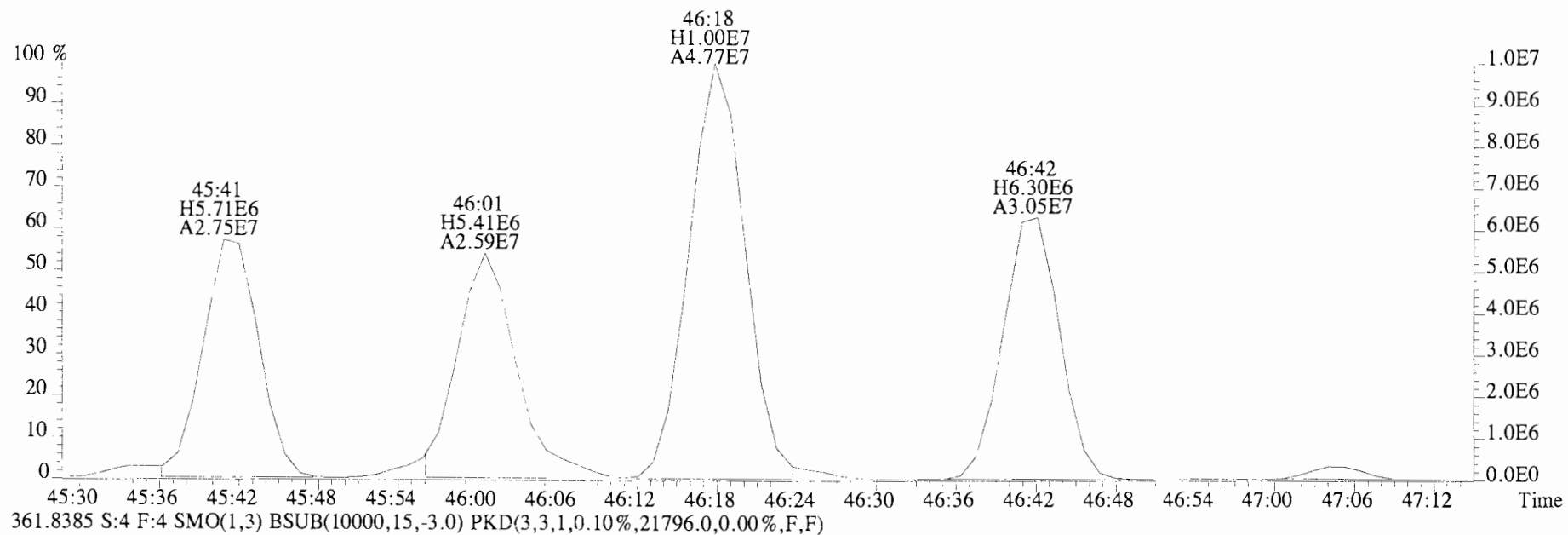
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30252.0,0.00%,F,F)



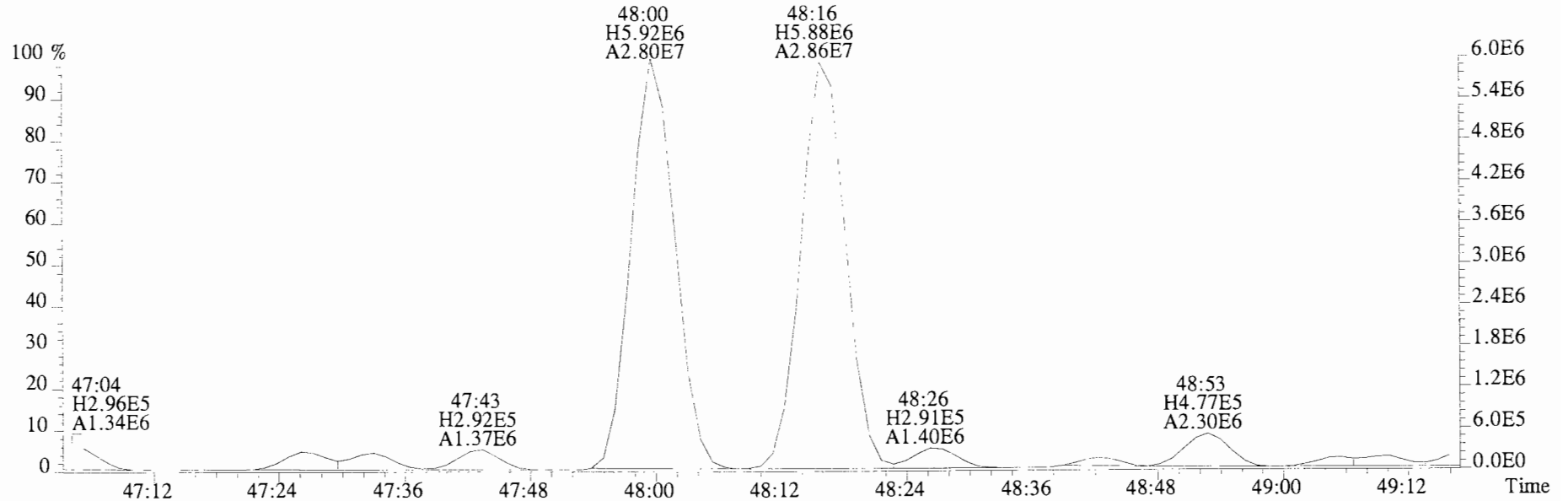
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30252.0,0.00%,F,F)



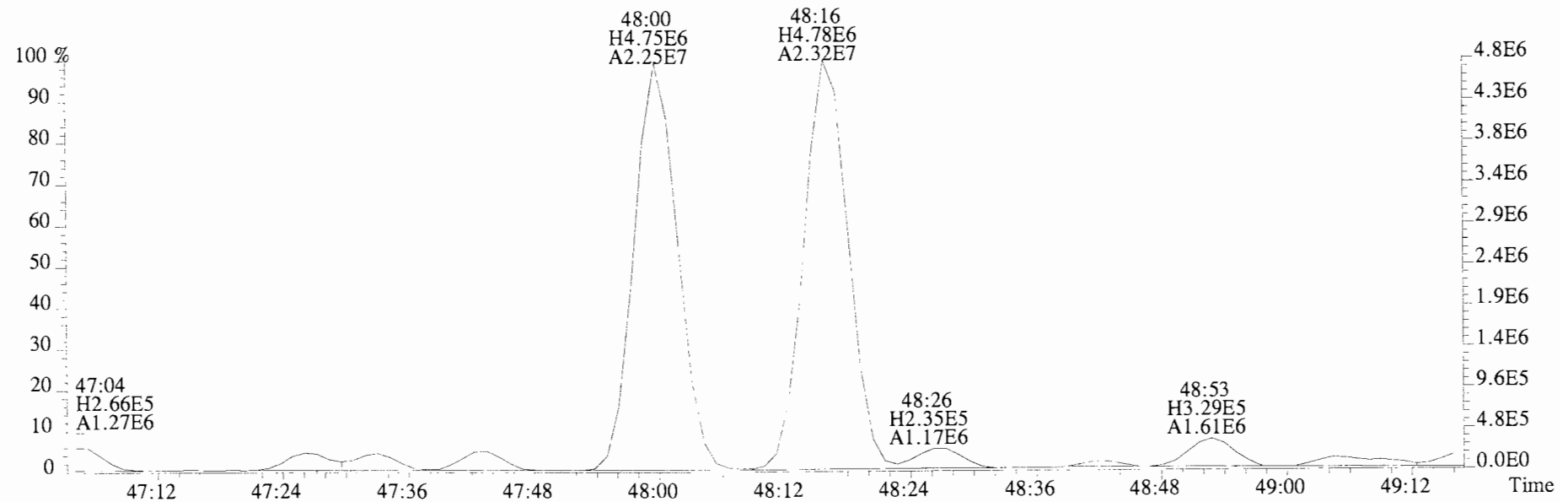
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30252.0,0.00%,F,F)



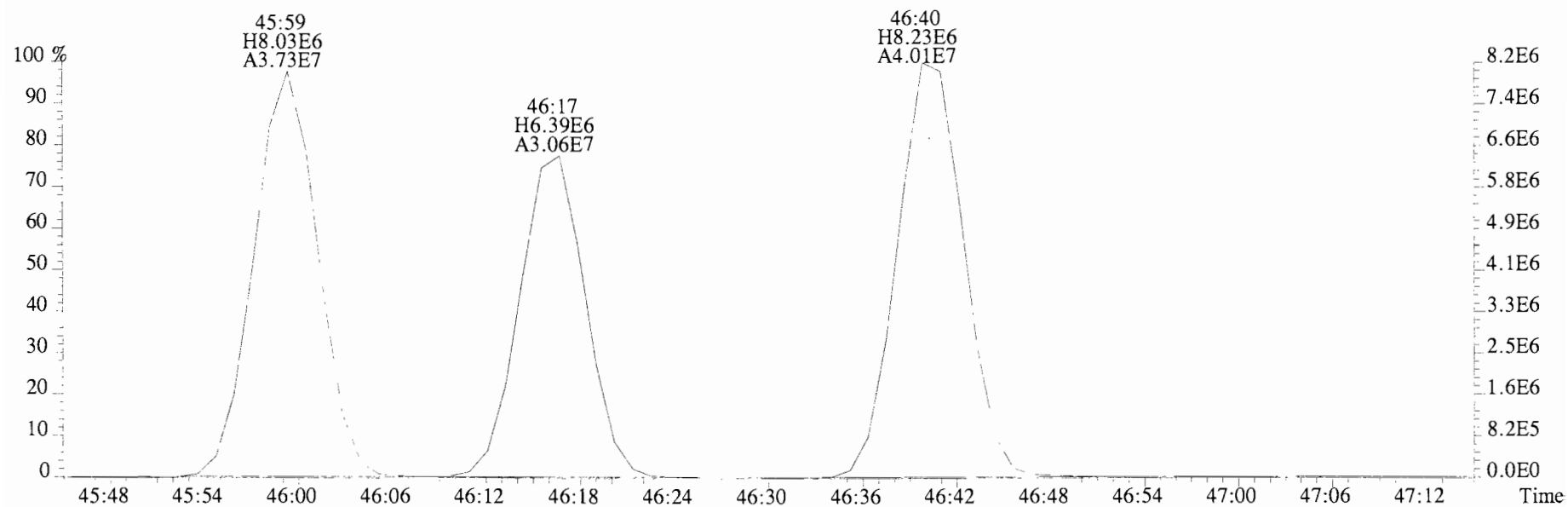
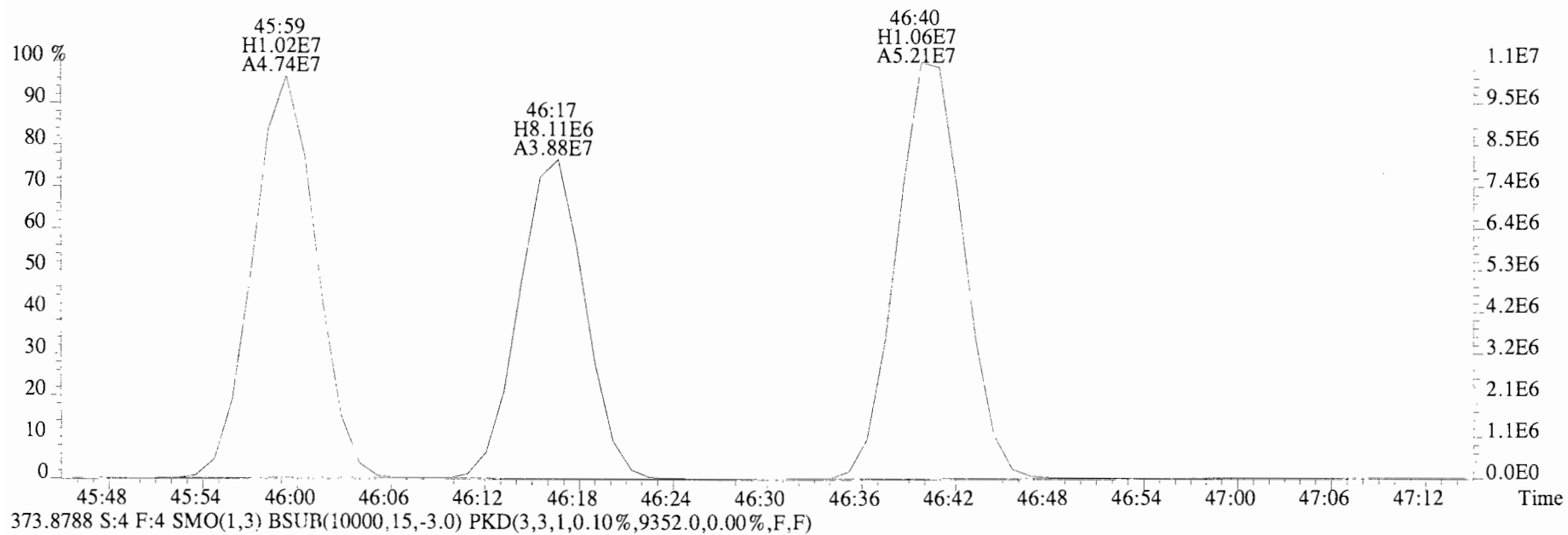
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30252.0,0.00%,F,F)



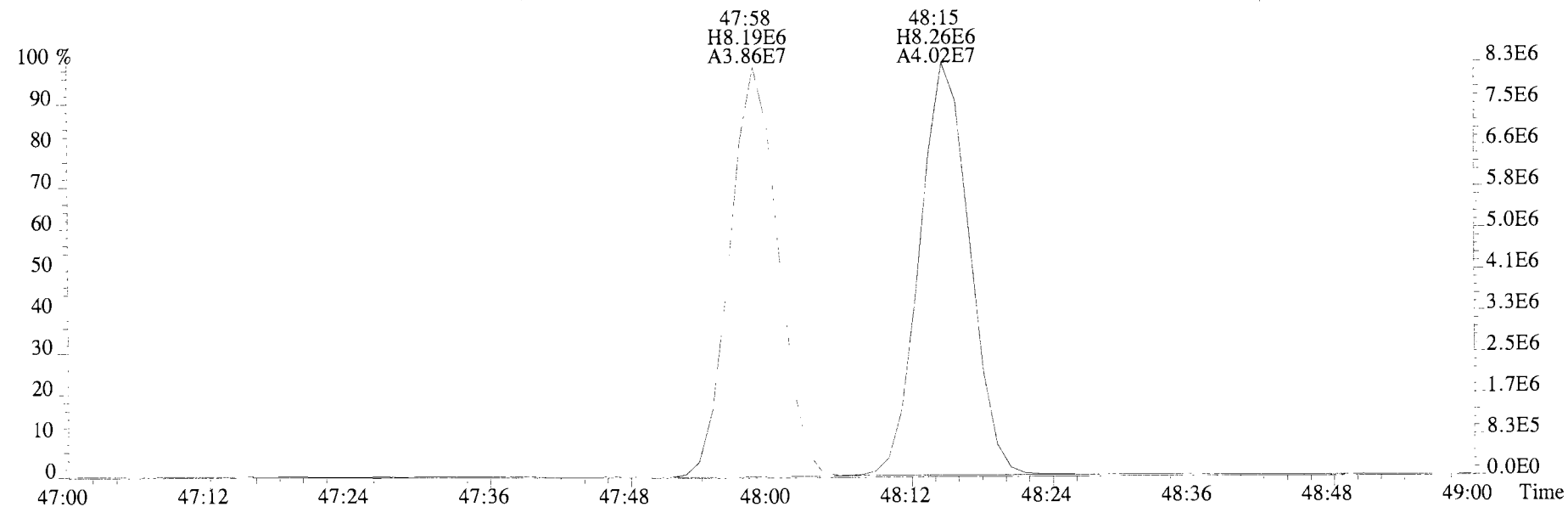
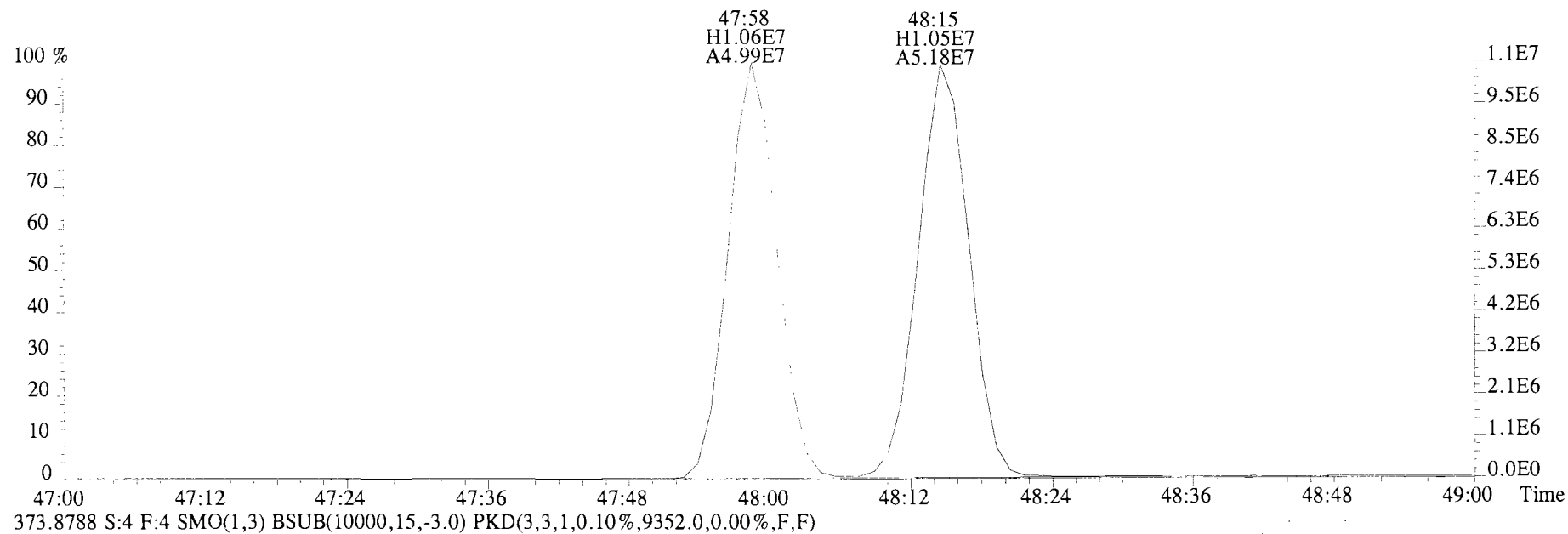
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21796.0,0.00%,F,F)



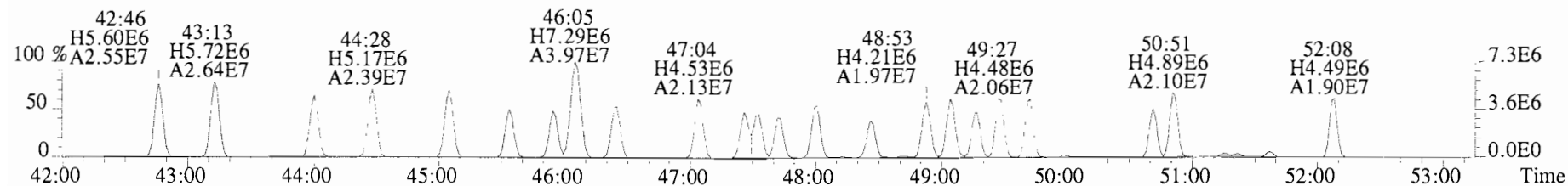
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14540.0,0.00%,F,F)



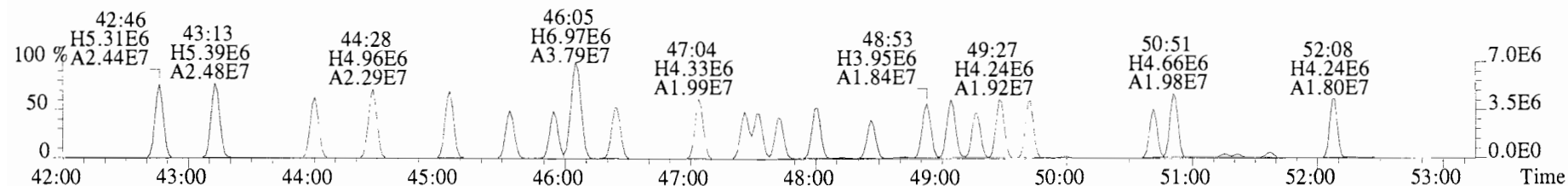
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14540.0,0.00%,F,F)



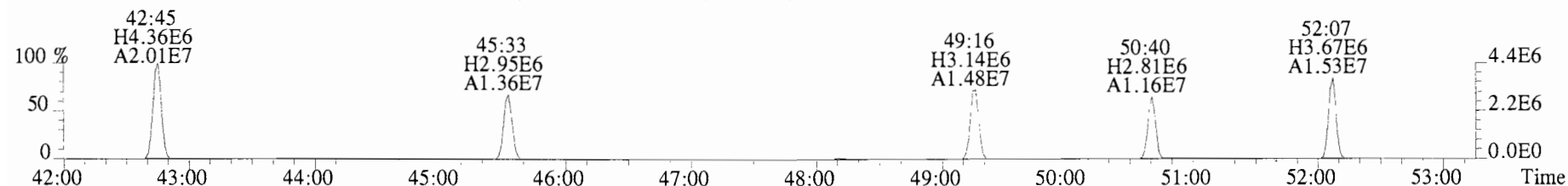
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13424.0,0.00%,F,F)



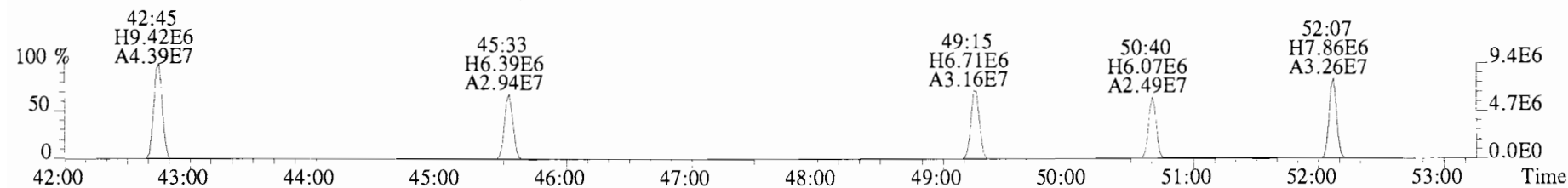
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17788.0,0.00%,F,F)



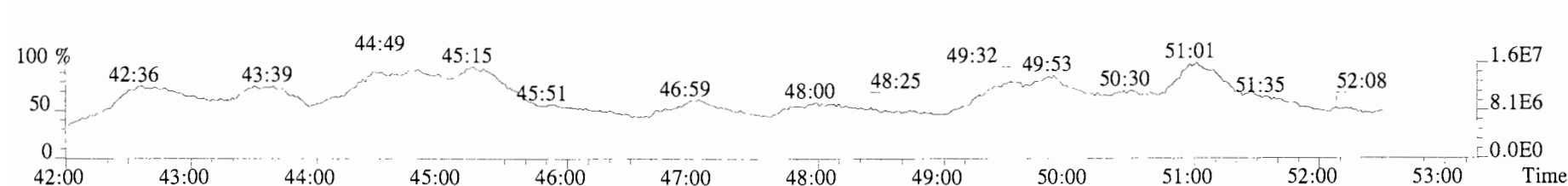
403.8457 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3024.0,0.00%,F,F)



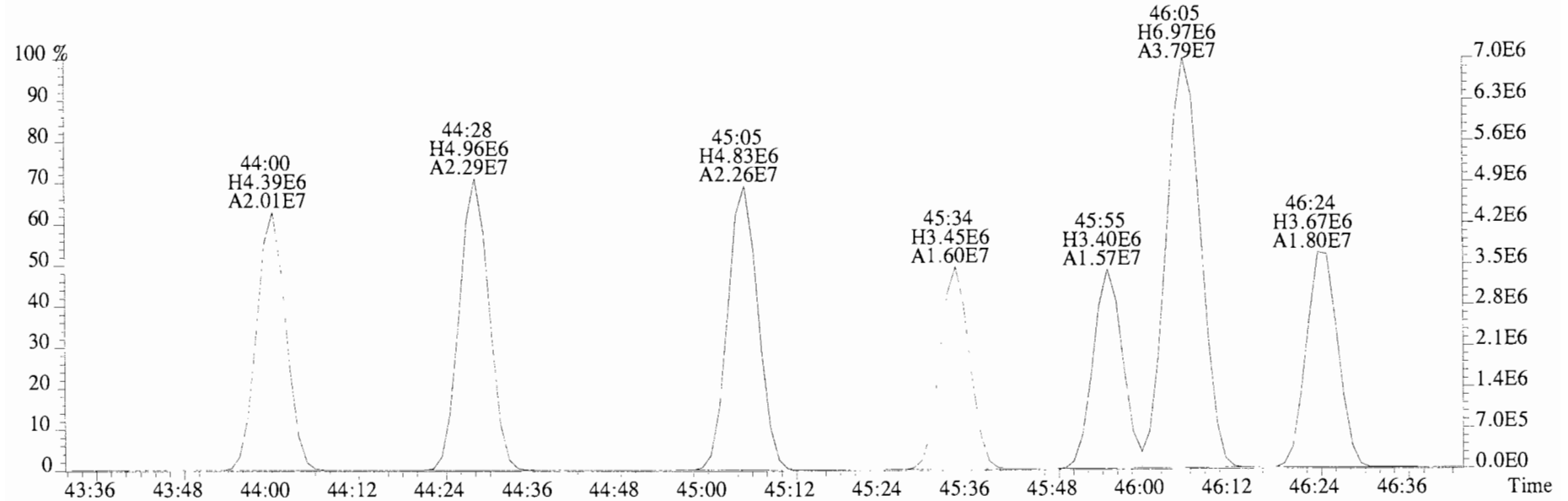
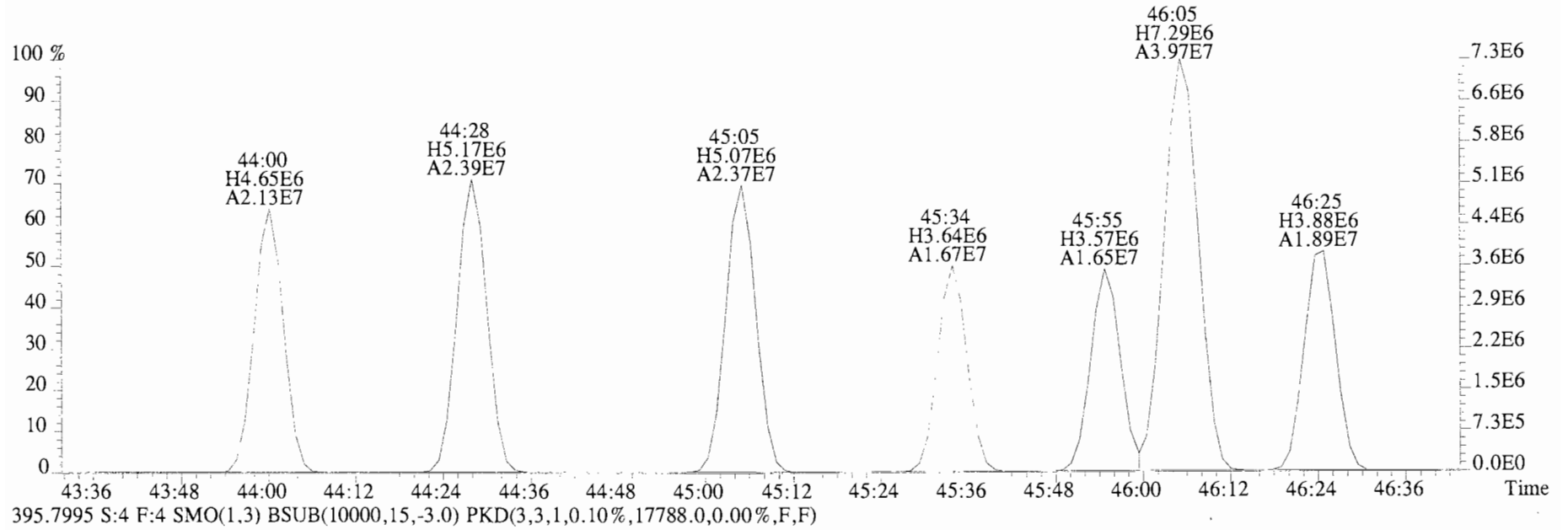
405.8428 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6084.0,0.00%,F,F)



380.9760 S:4 F:4

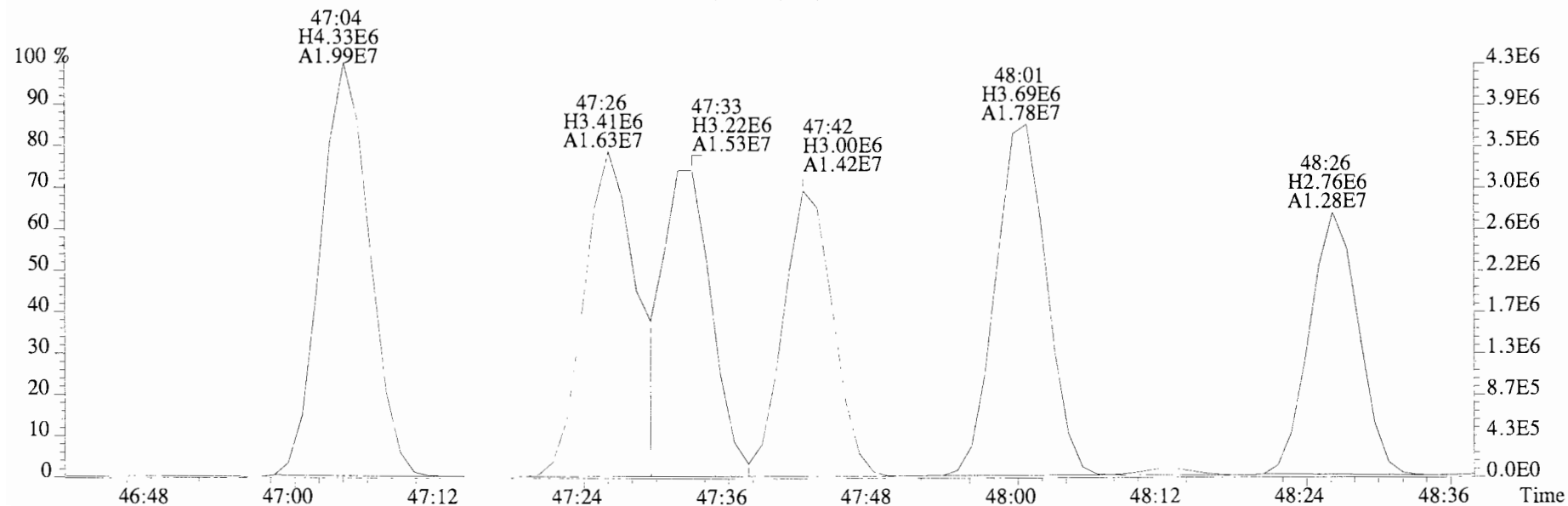
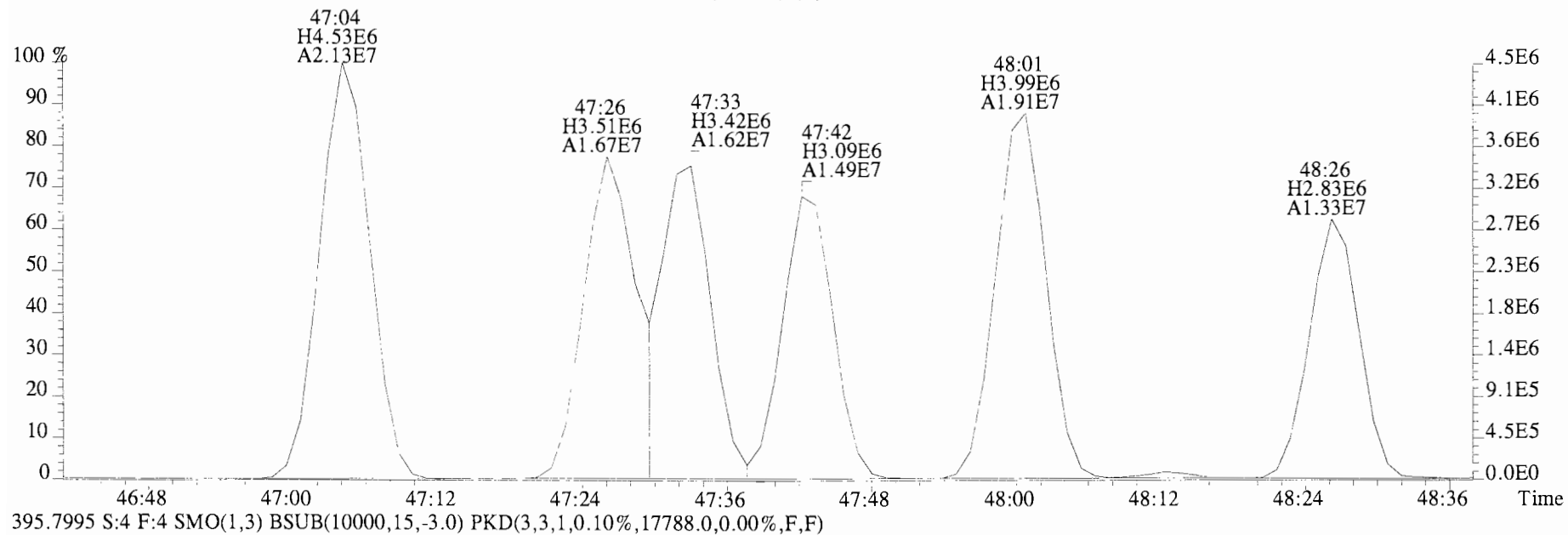


File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13424.0,0.00%,F,F)

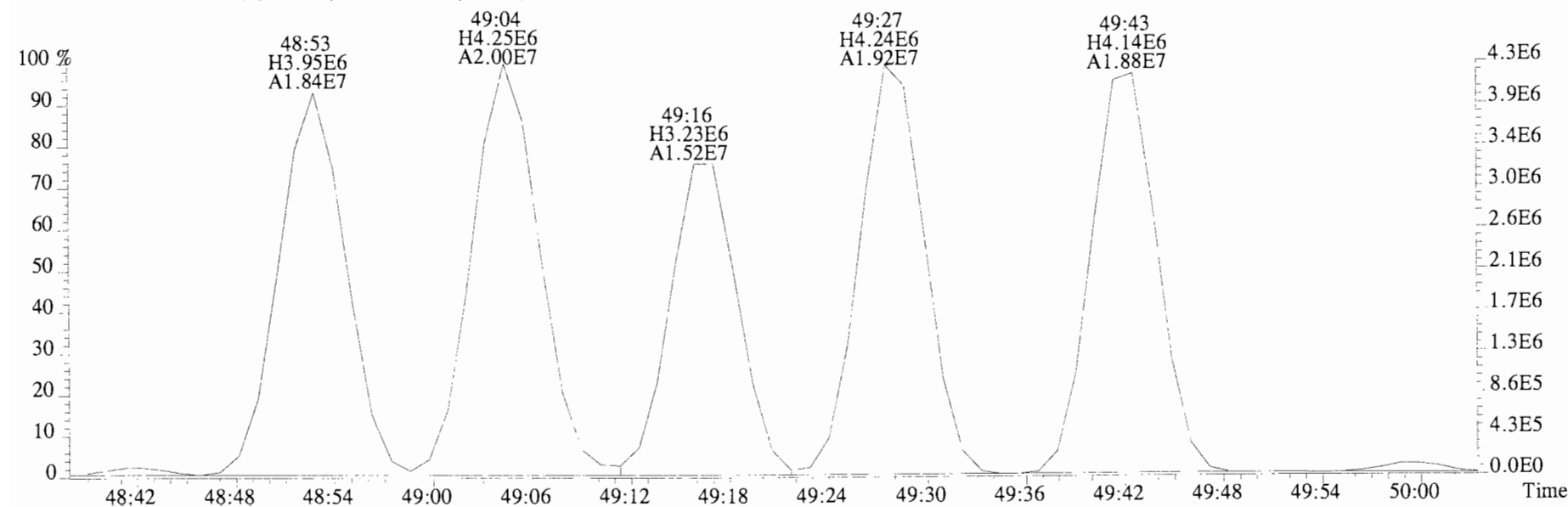
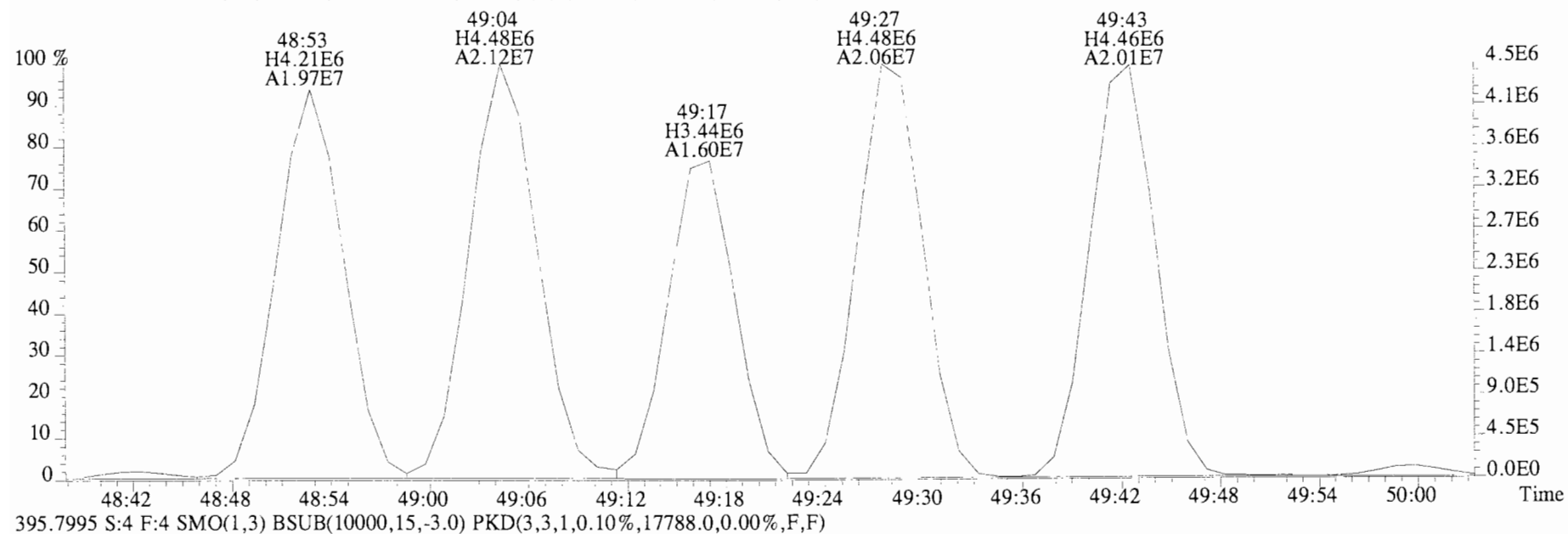




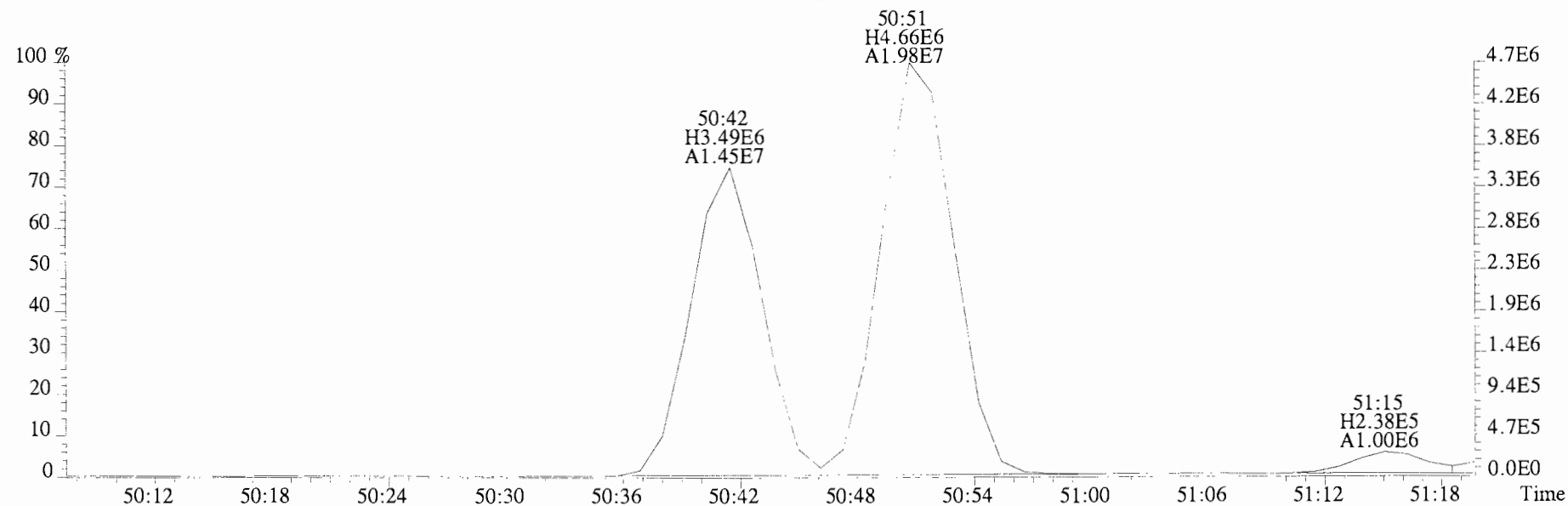
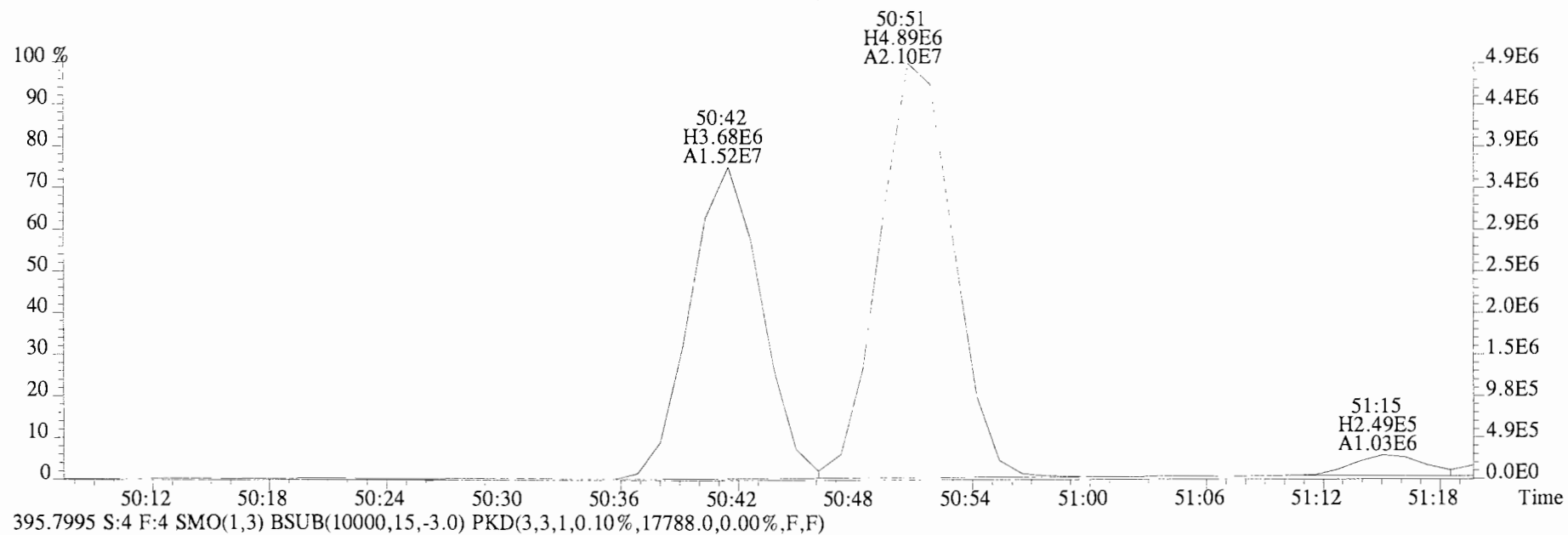
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13424.0,0.00%,F,F)



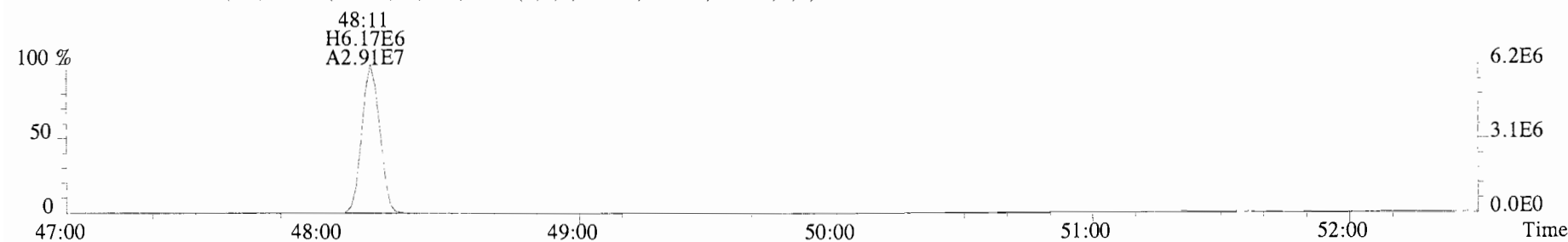
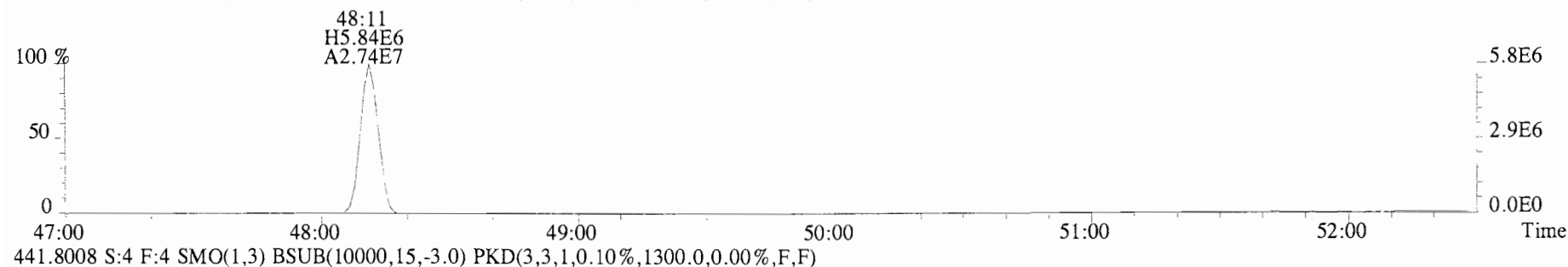
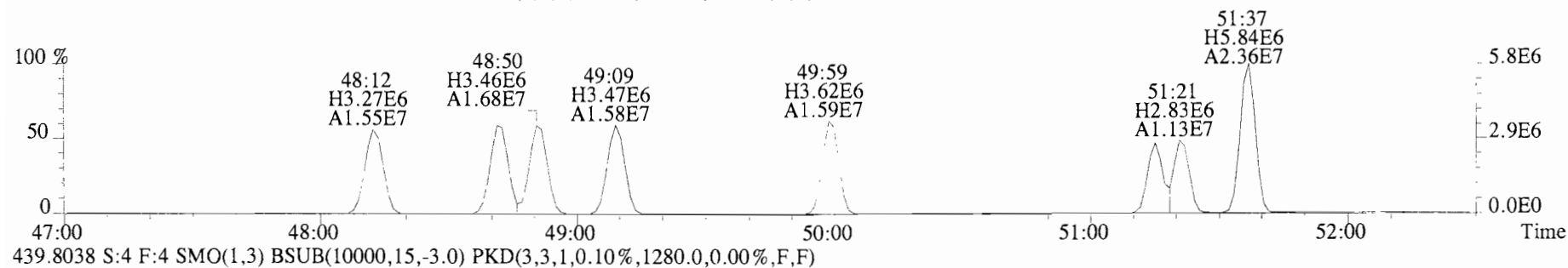
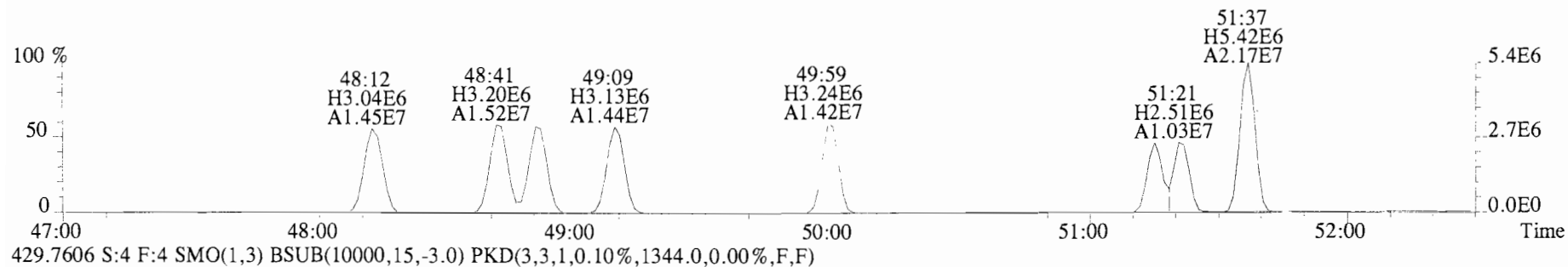
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
 393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13424.0,0.00%,F,F)



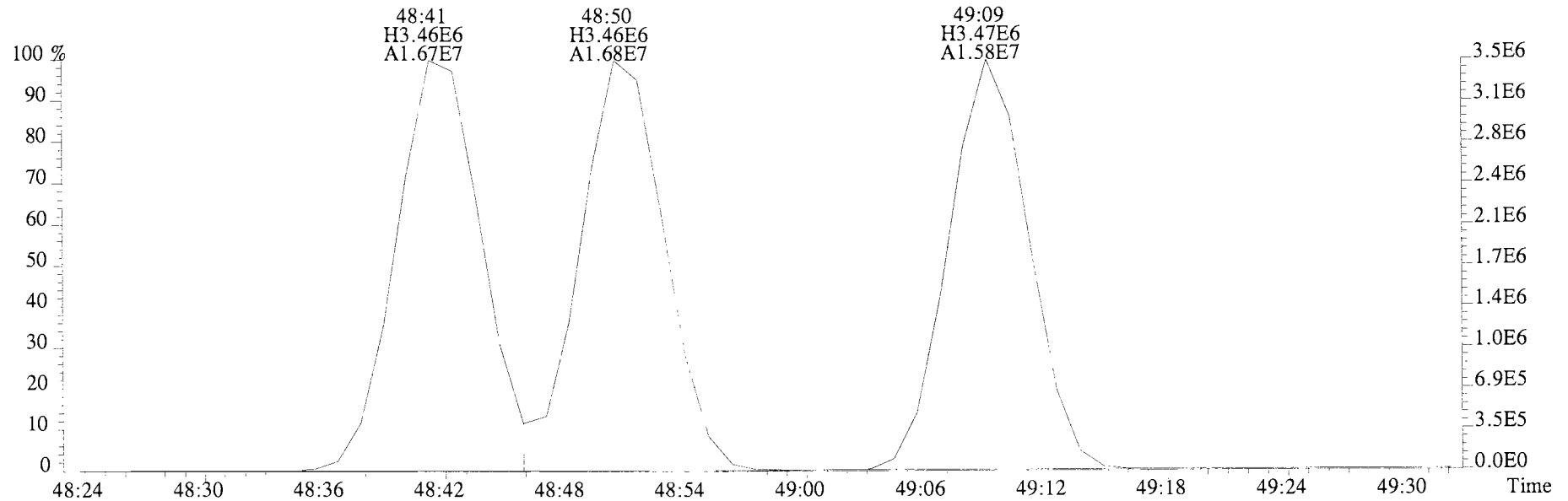
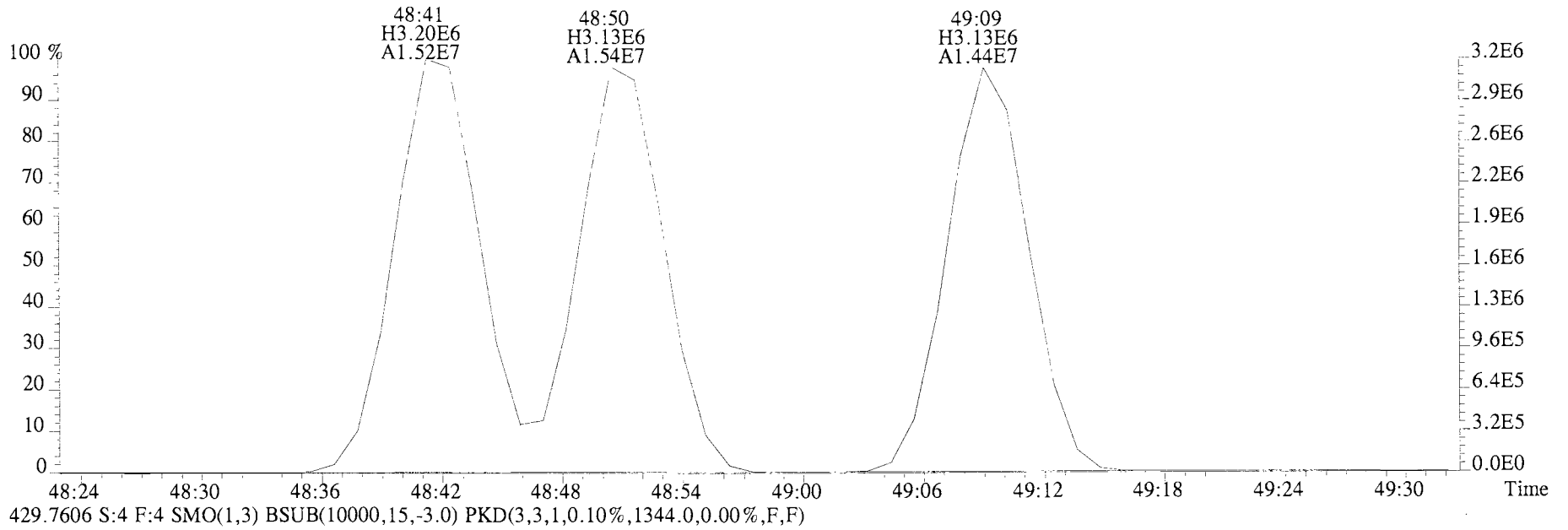
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13424.0,0.00%,F,F)



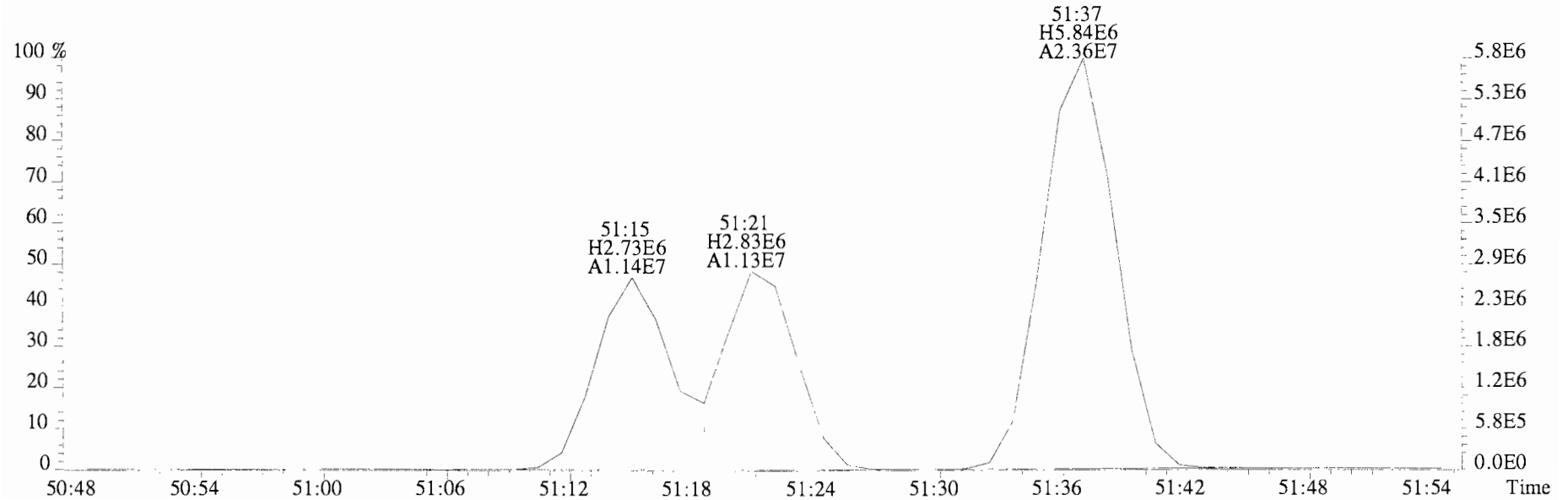
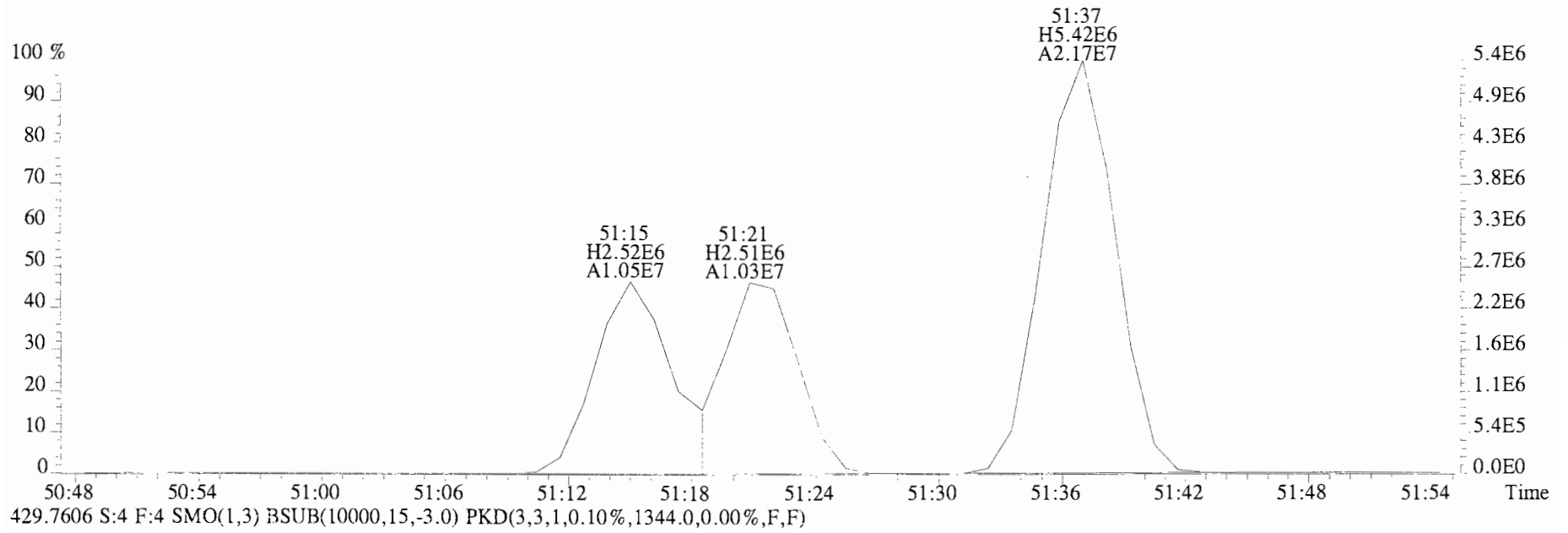
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1284.0,0.00%,F,F)



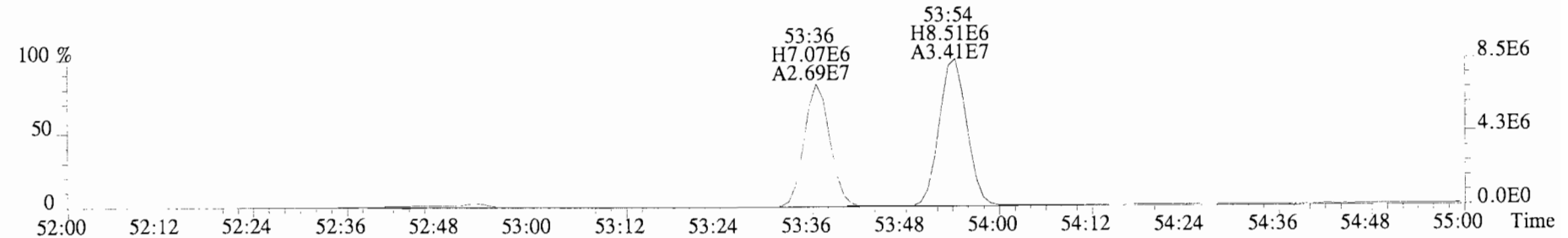
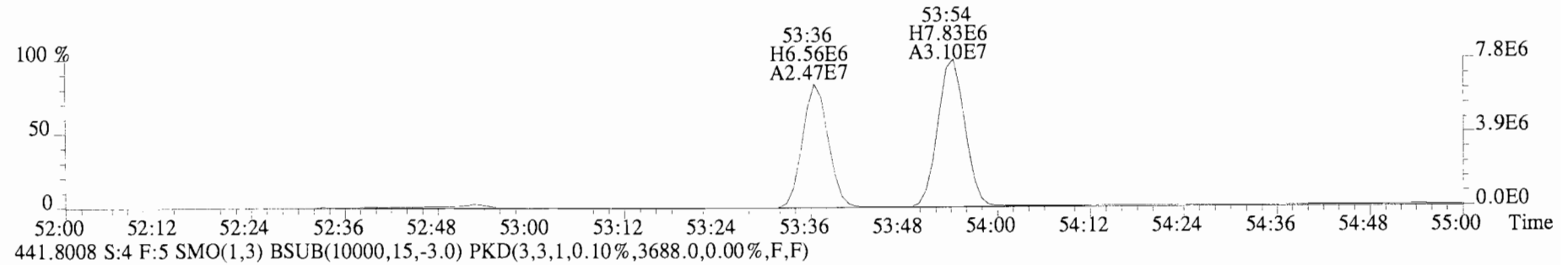
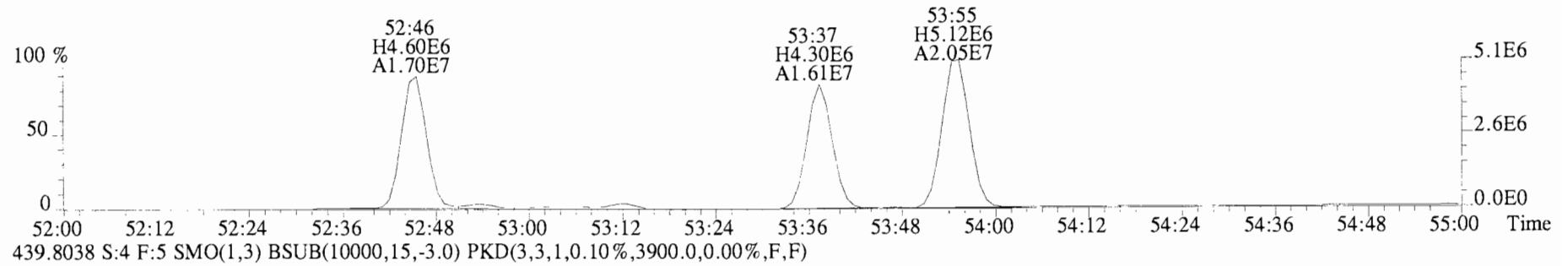
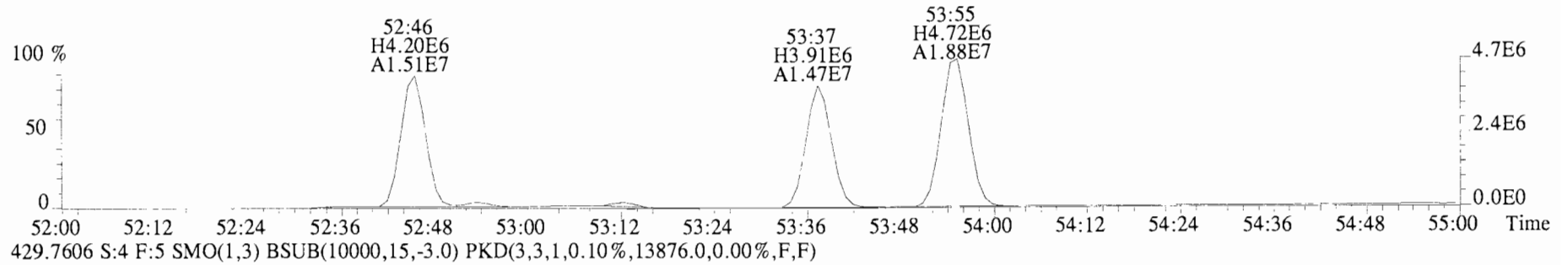
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1284.0,0.00%,F,F)



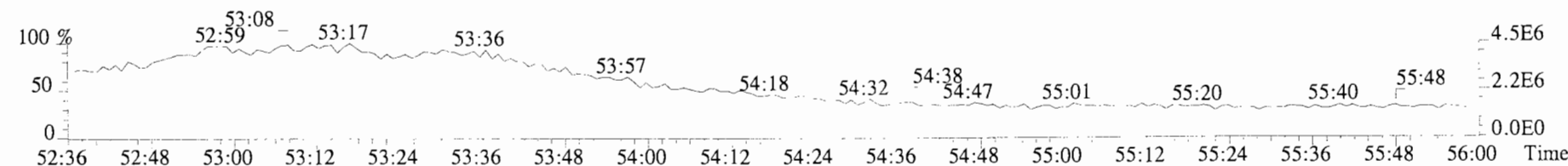
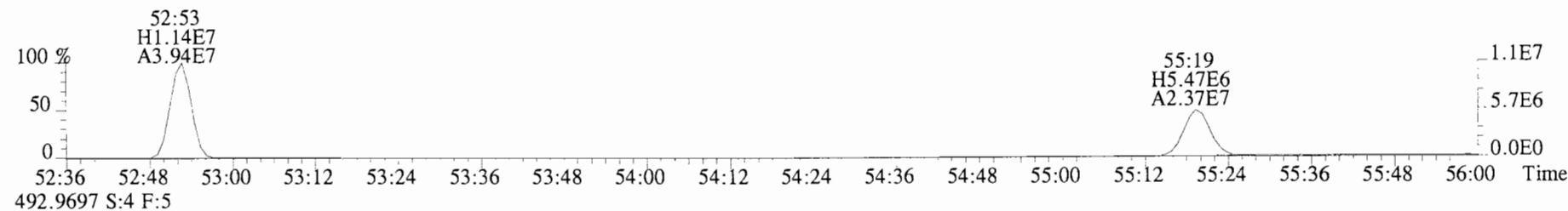
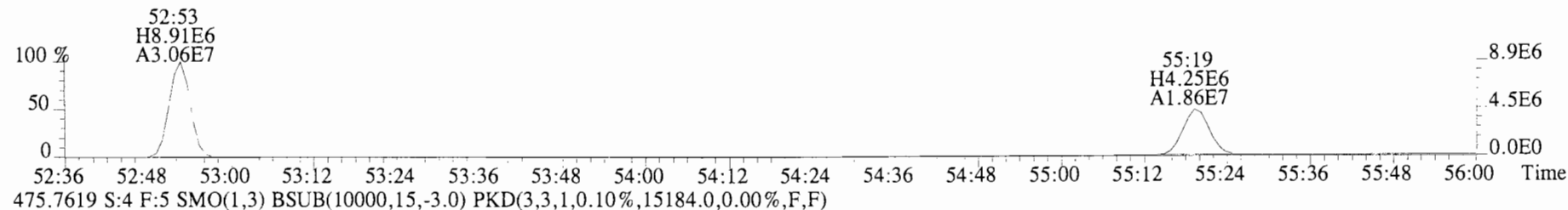
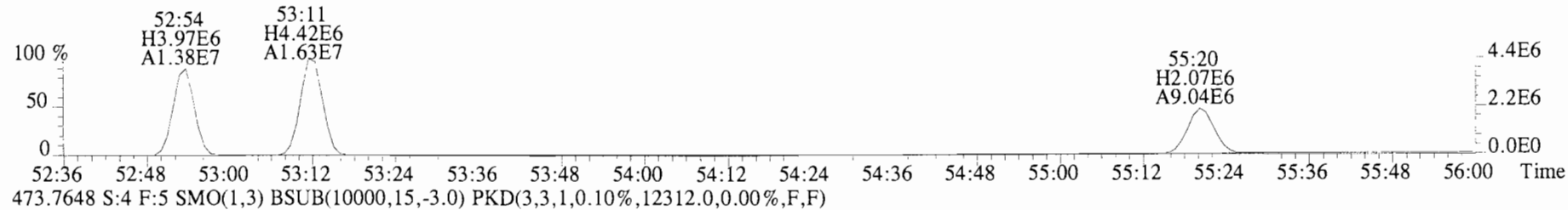
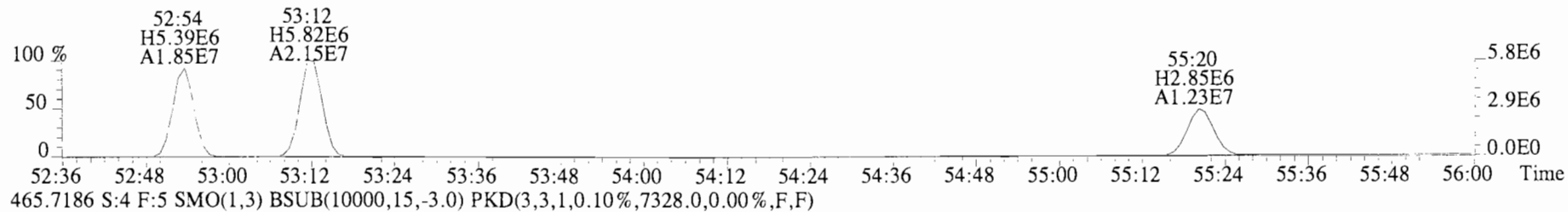
File:140623E2 #1-552 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1284.0,0.00%,F,F)



File:140623E2 #1-435 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19532.0,0.00%,F,F)

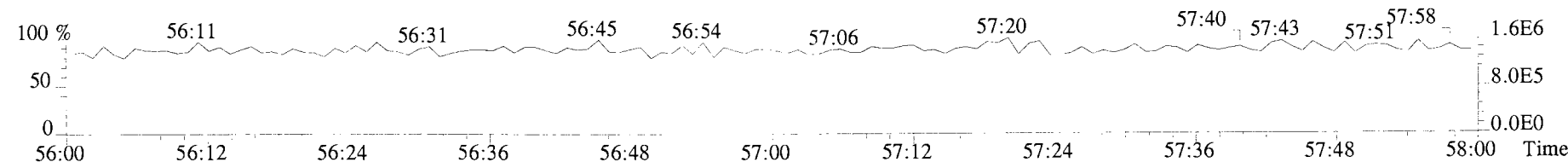
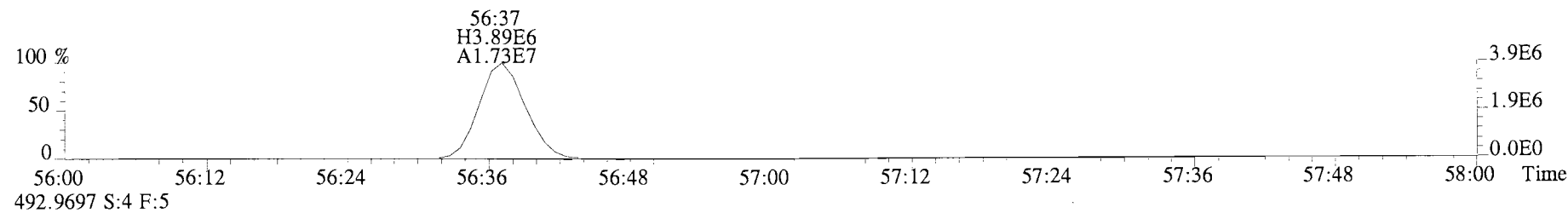
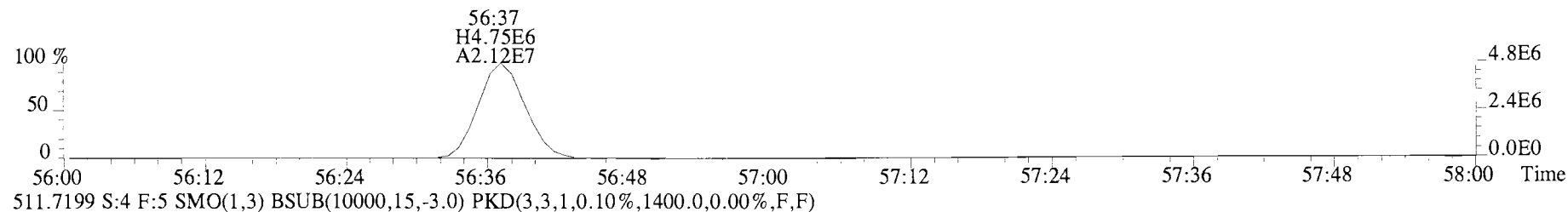
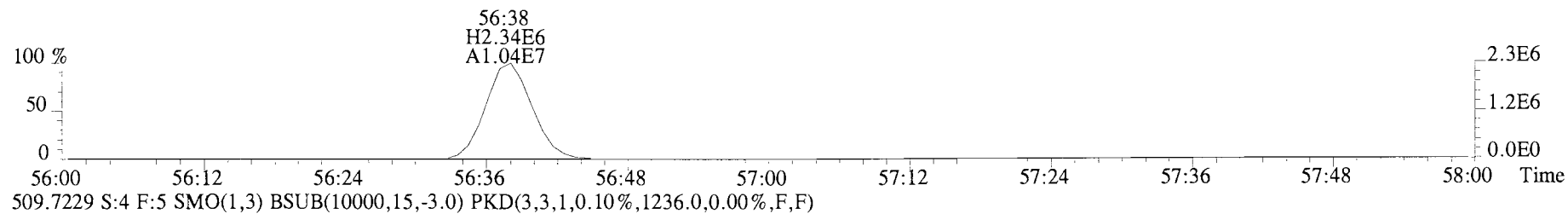
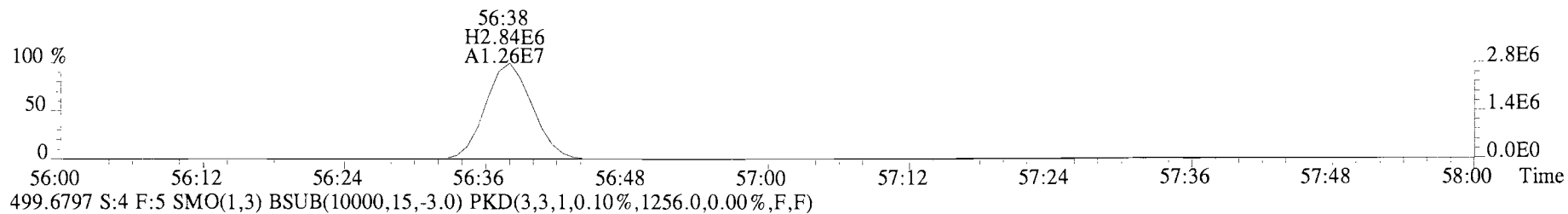


File:140623E2 #1-435 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9004.0,0.00%,F,F)

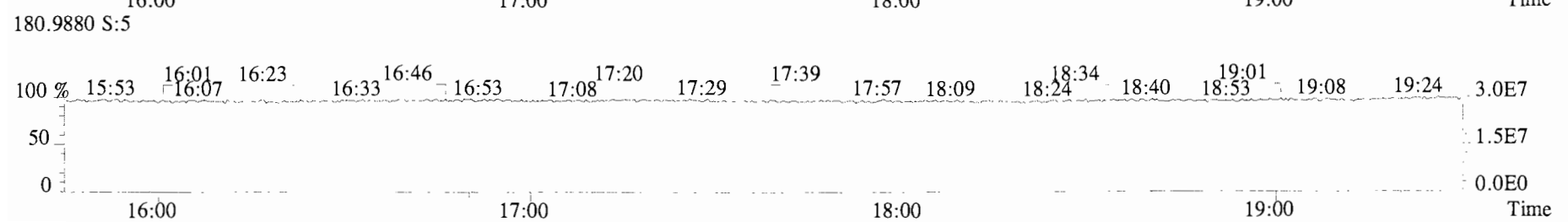
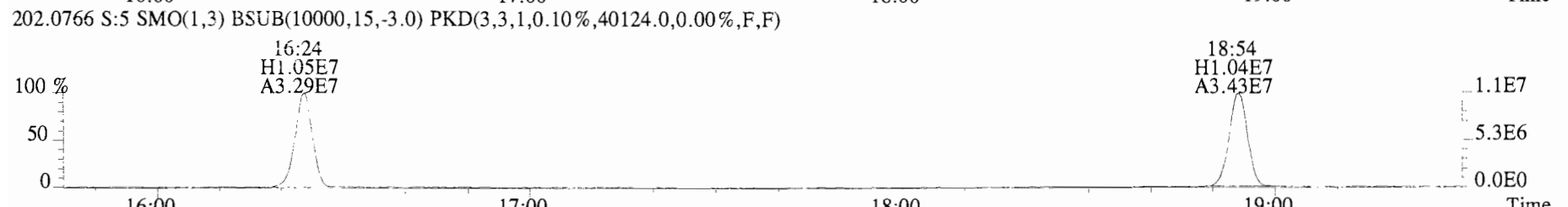
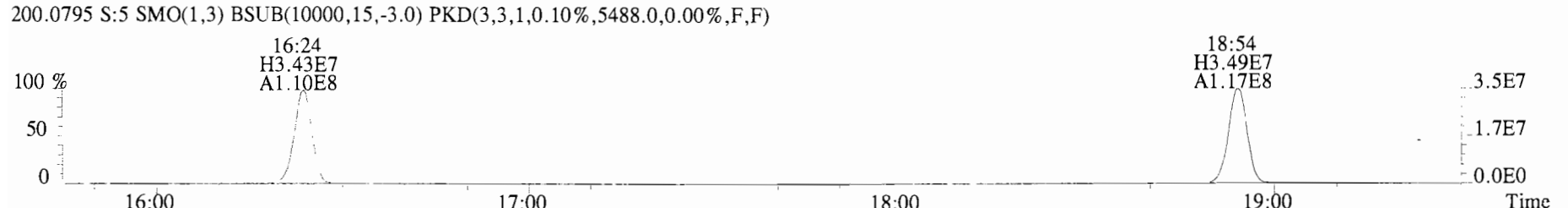
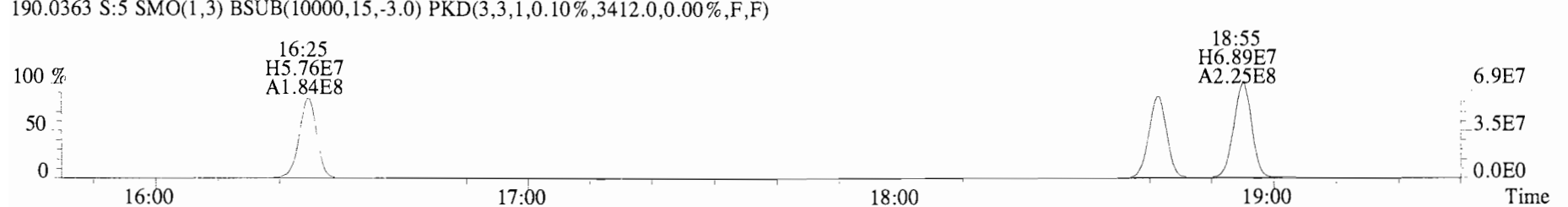
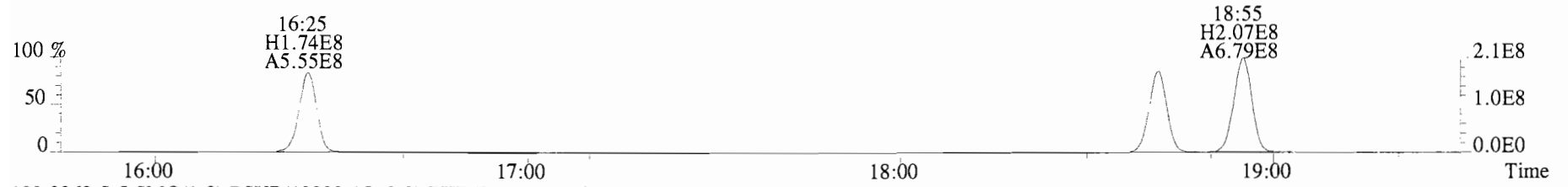




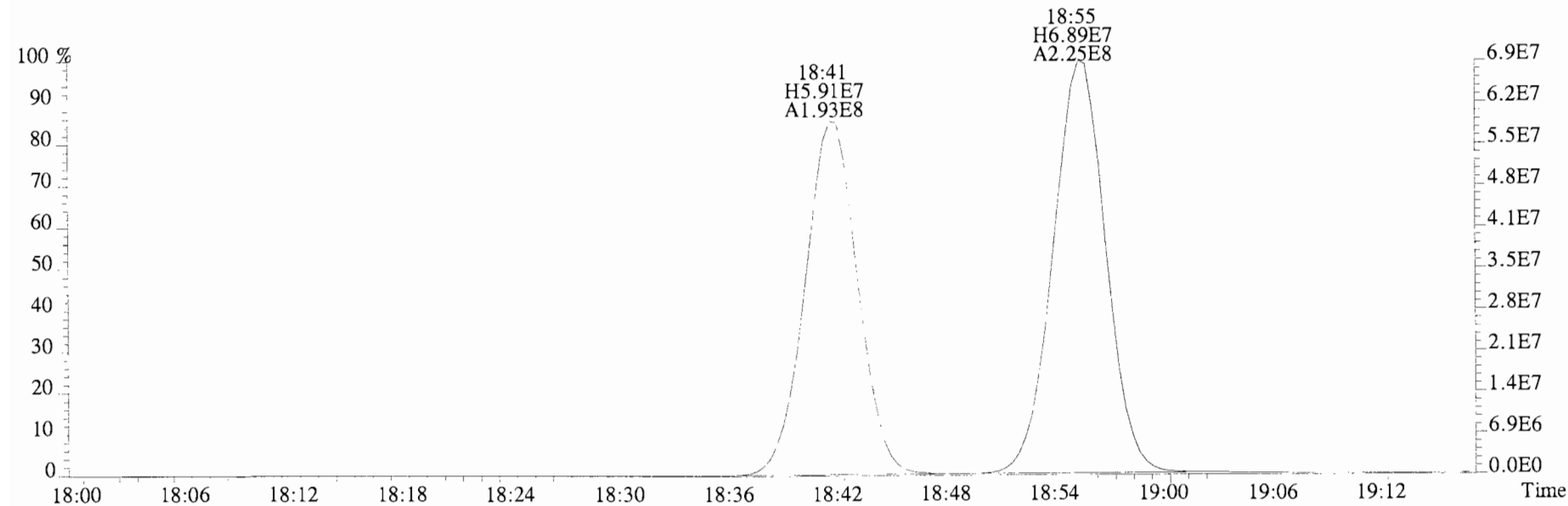
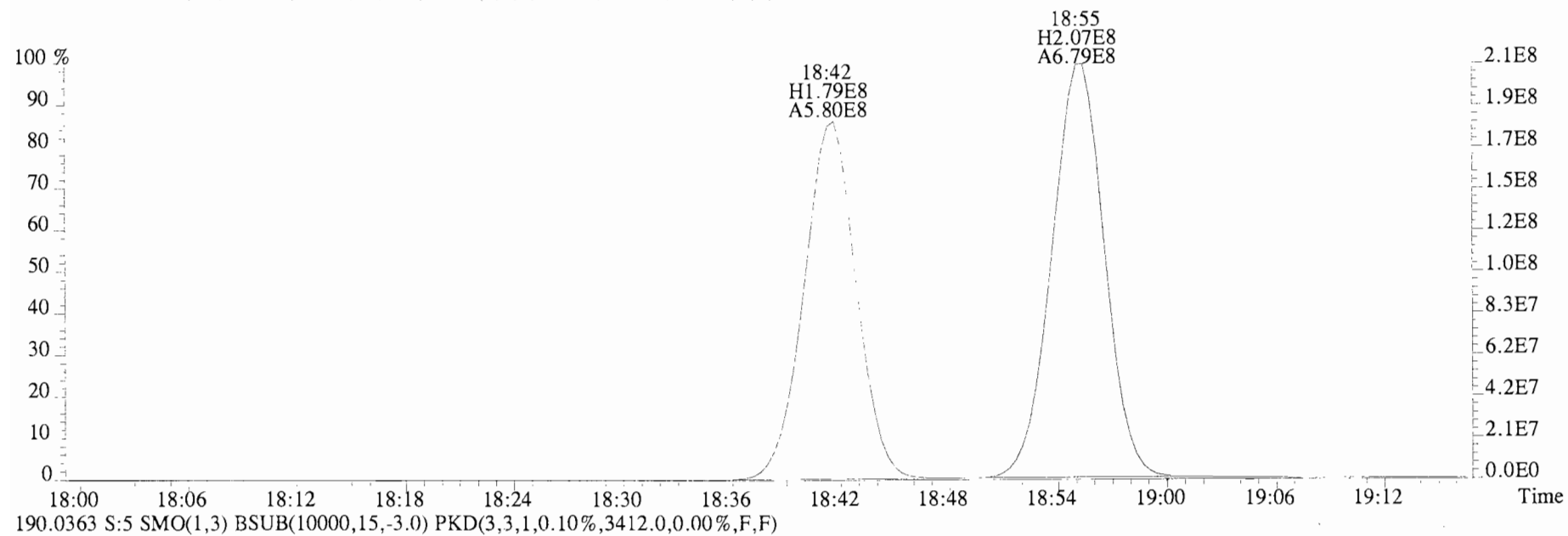
File:140623E2 #1-435 Acq:23-JUN-2014 14:53:49 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-4 PCB CS3 14F1302 Exp:PCB\_ZB1  
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1288.0,0.00%,F,F)



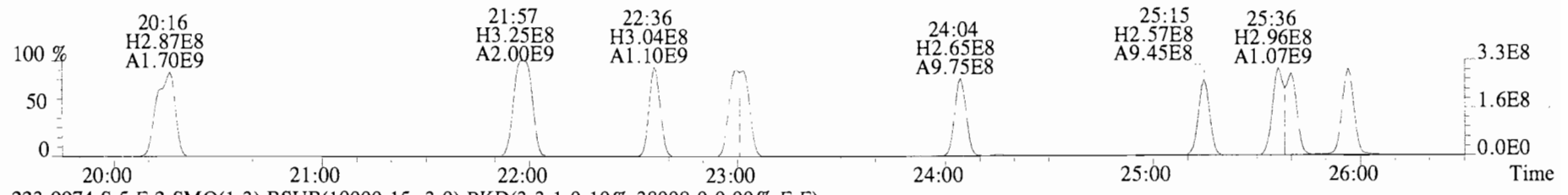
File:140623E2 #1-729 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5564.0,0.00%,F,F)



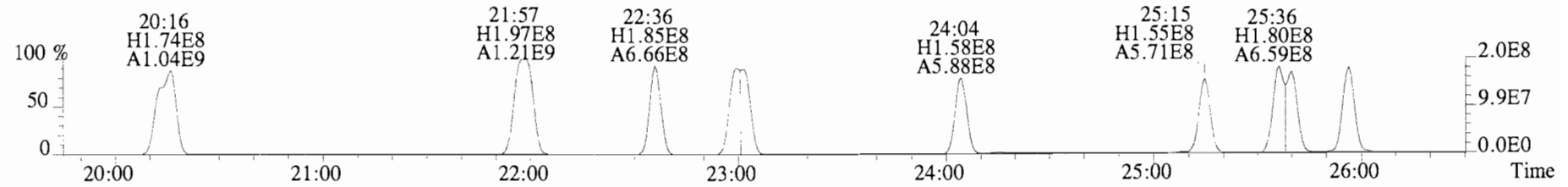
File:140623E2 #1-729 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5564.0,0.00%,F,F)



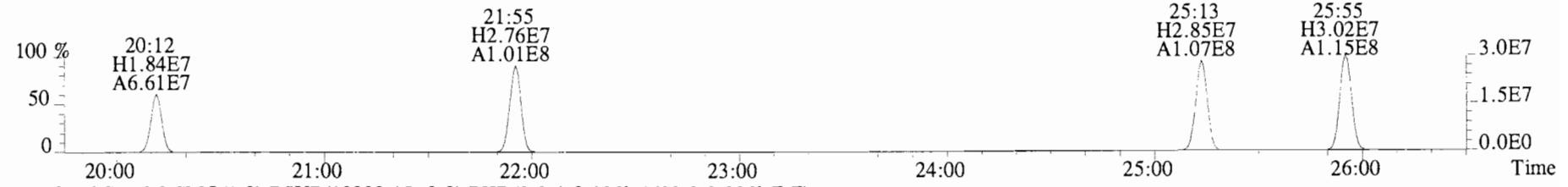
File:140623E2 #1-750 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55112.0,0.00%,F,F)



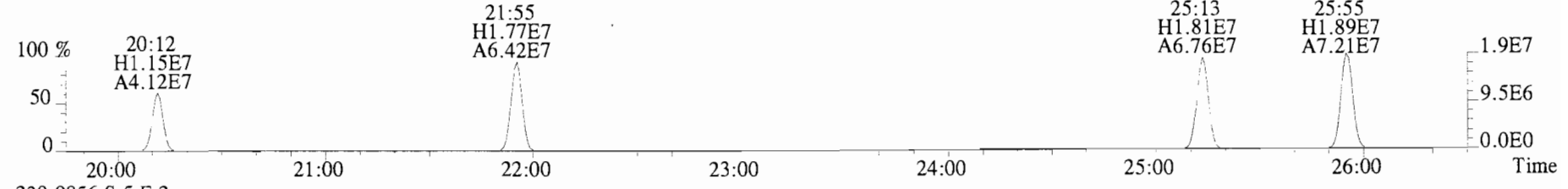
223.9974 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38008.0,0.00%,F,F)



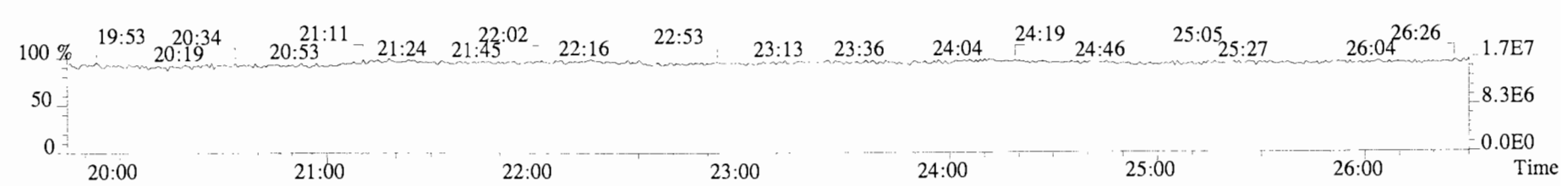
234.0406 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4924.0,0.00%,F,F)



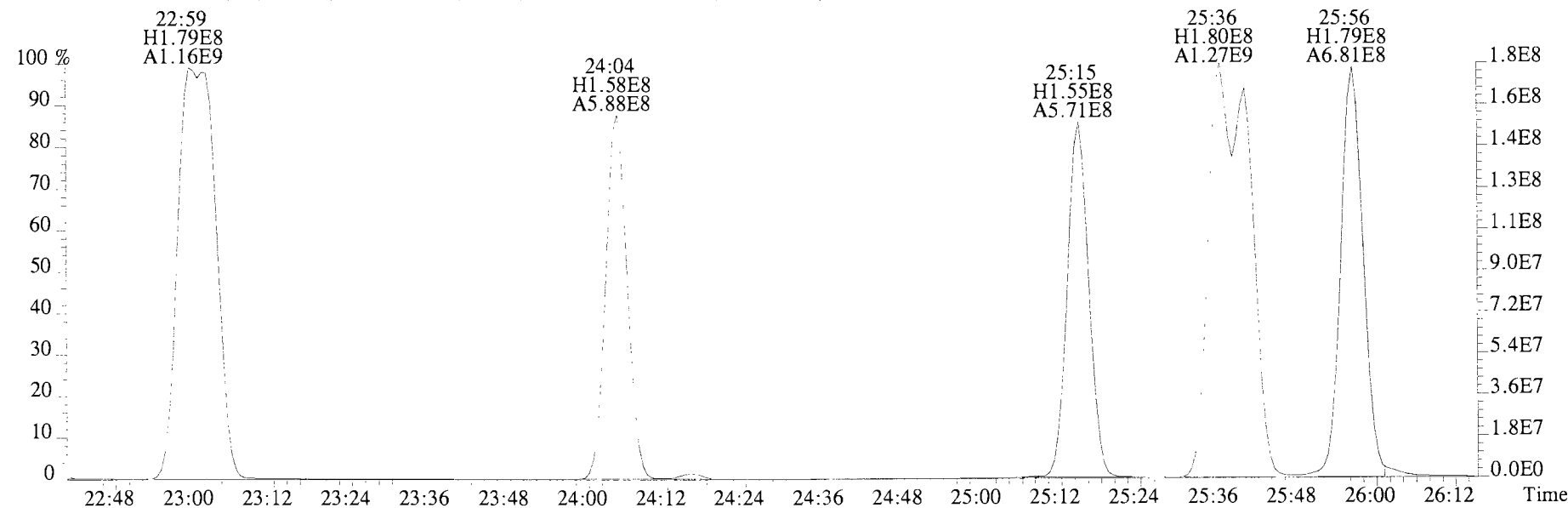
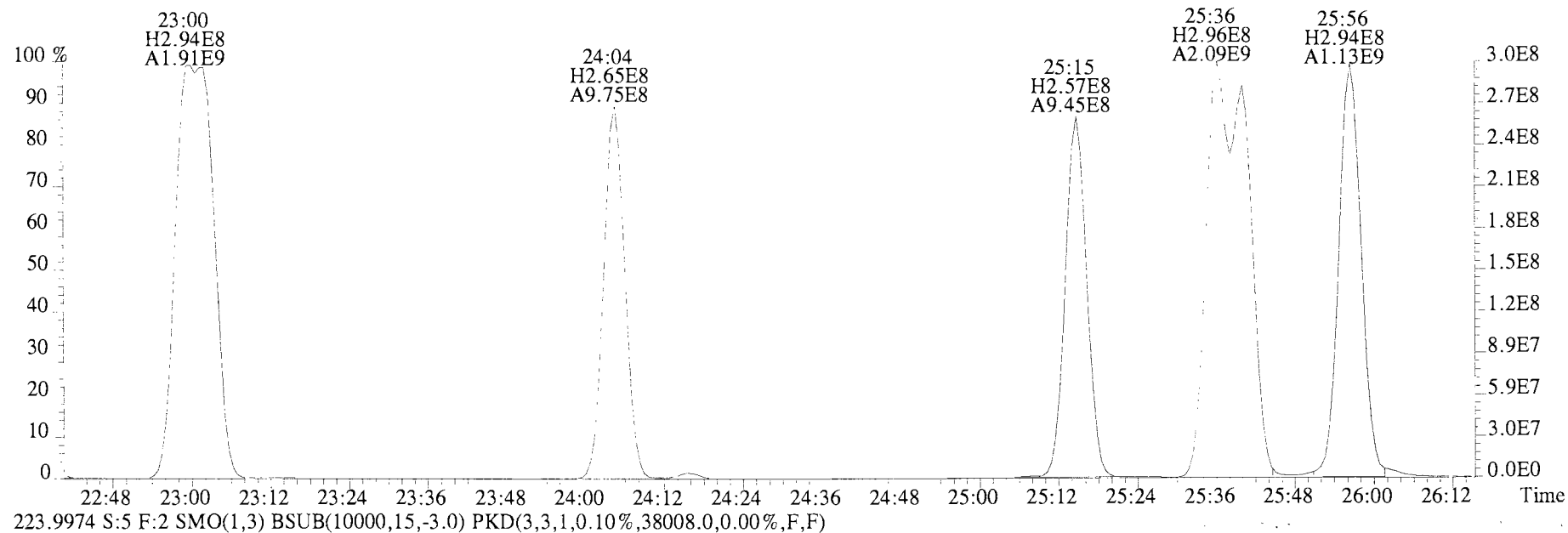
236.0376 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4620.0,0.00%,F,F)



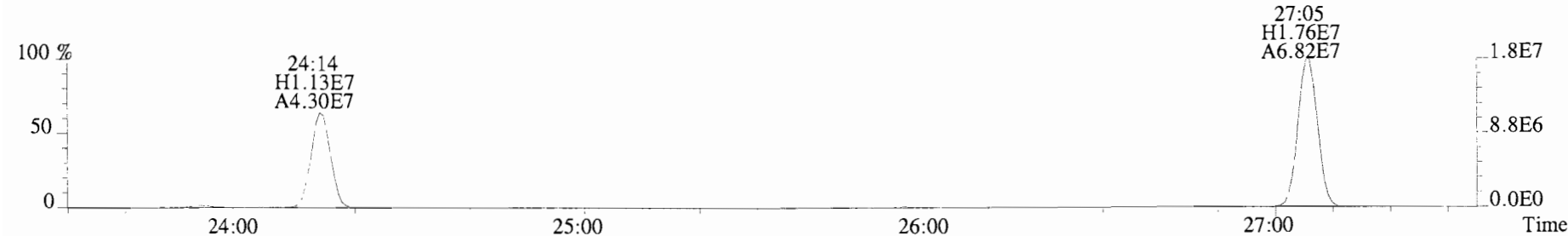
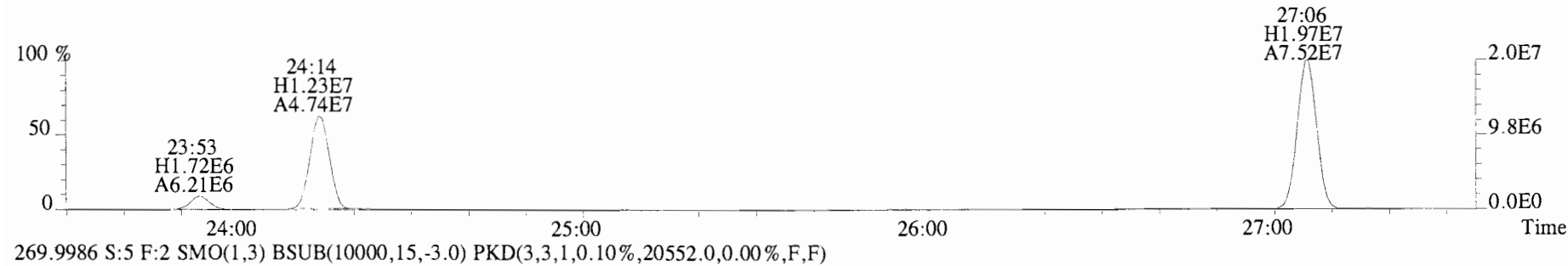
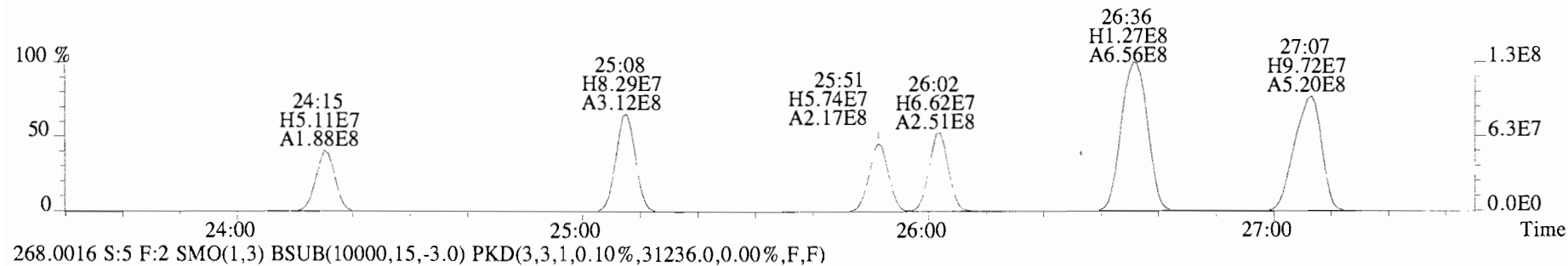
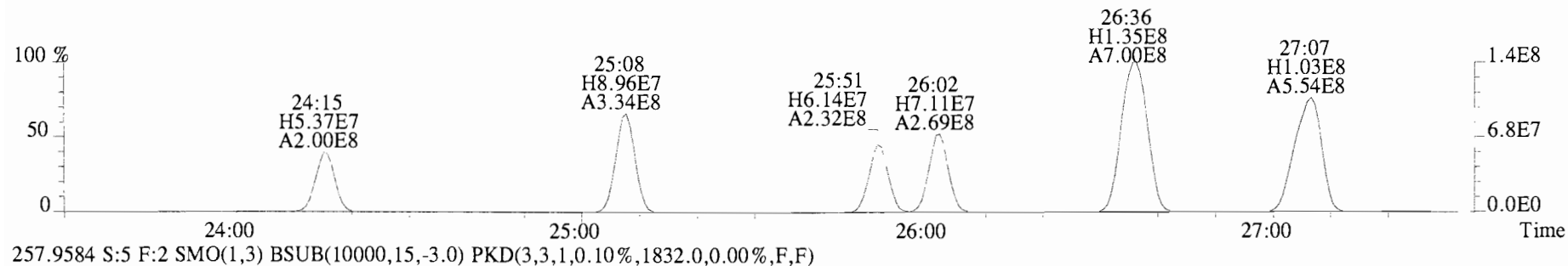
230.9856 S:5 F:2



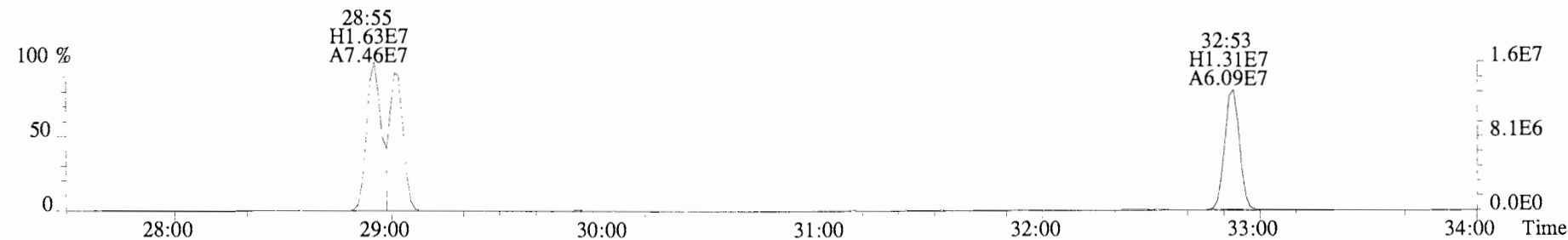
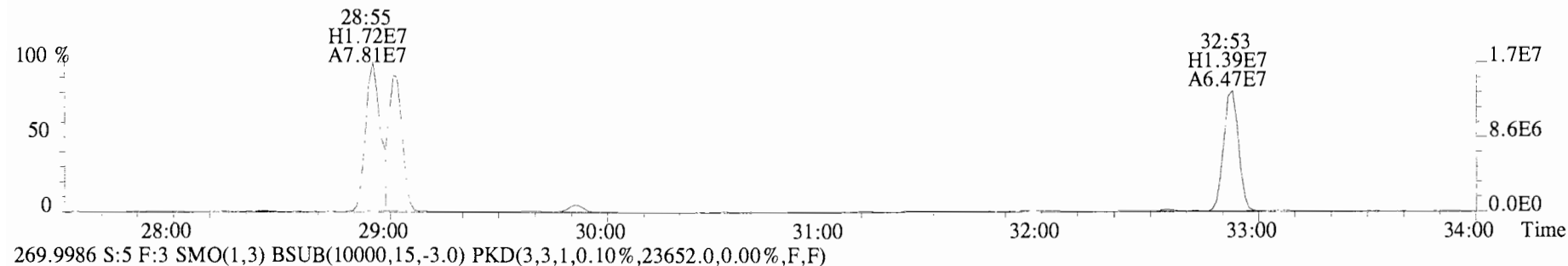
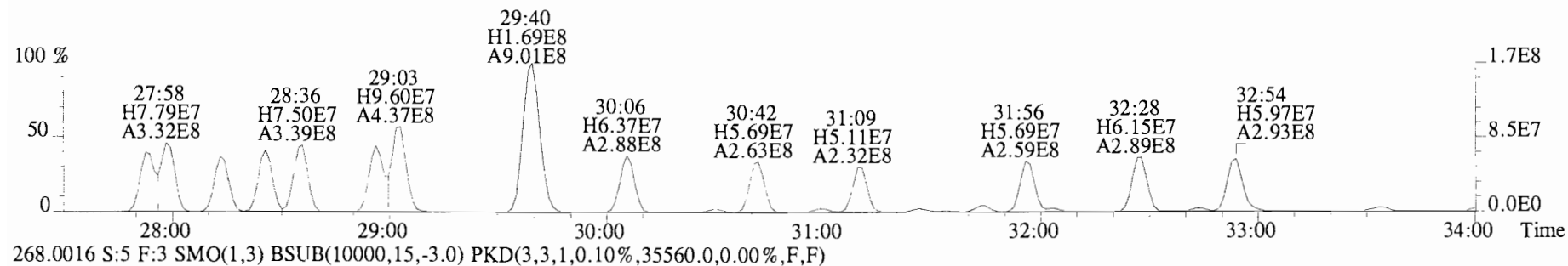
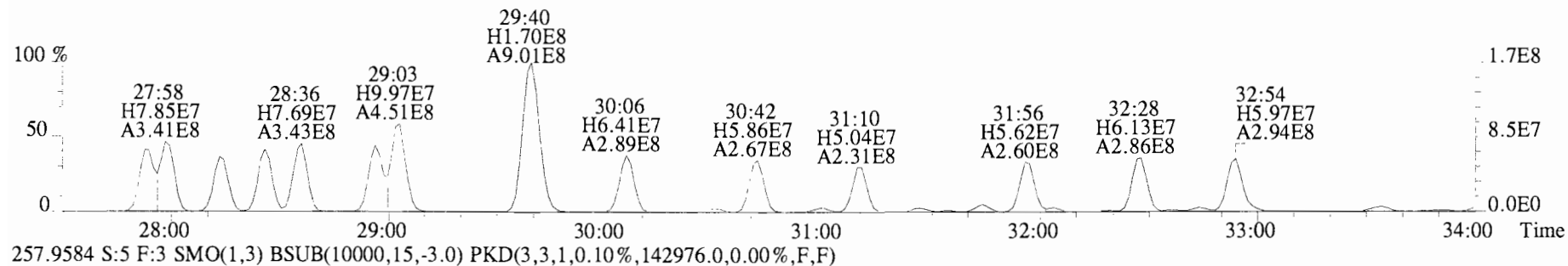
File:140623E2 #1-750 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,55112.0,0.00%,F,F)



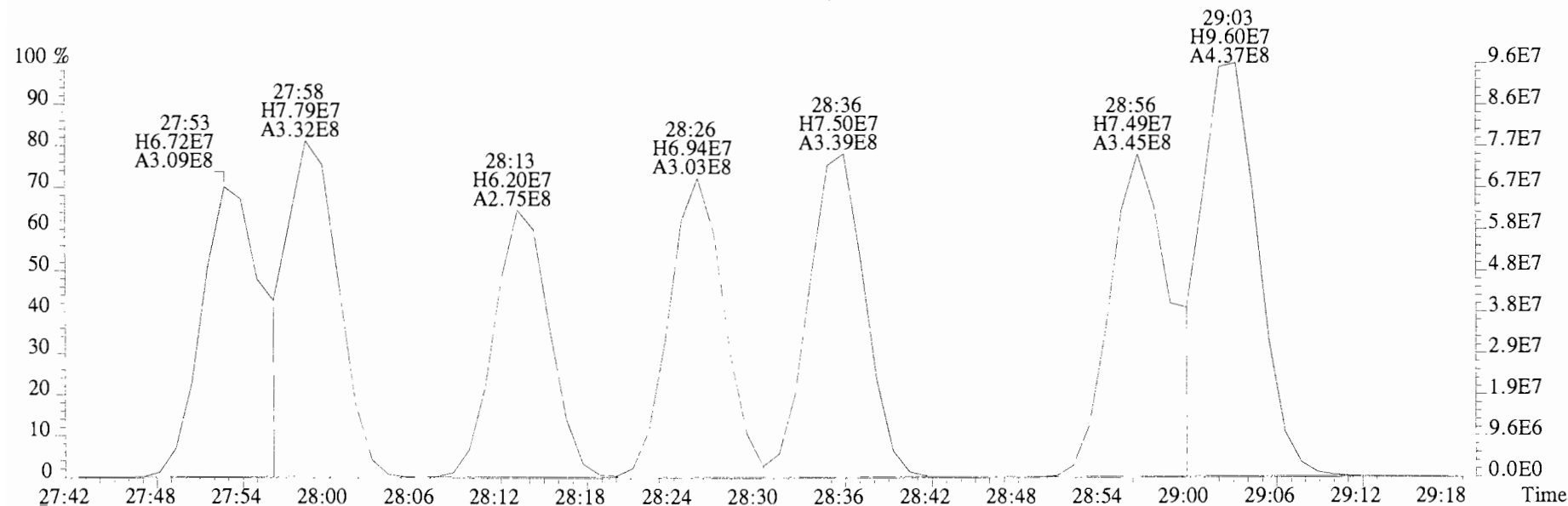
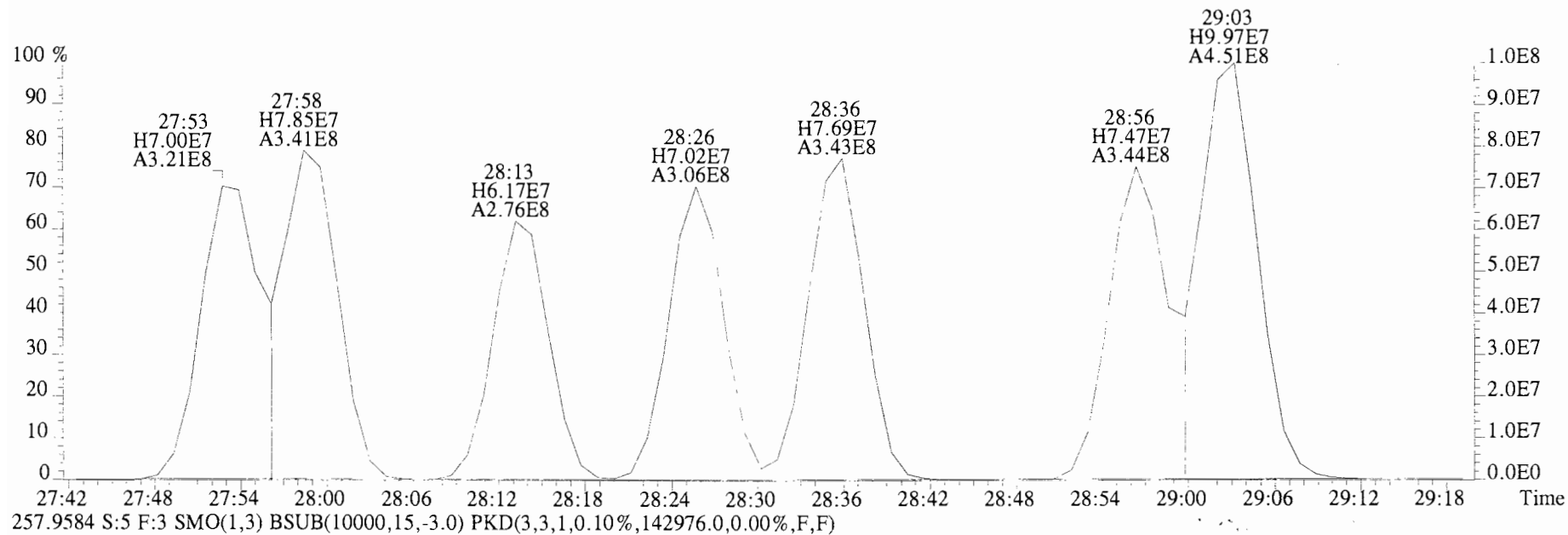
File:140623E2 #1-750 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,131080.0,0.00%,F,F)

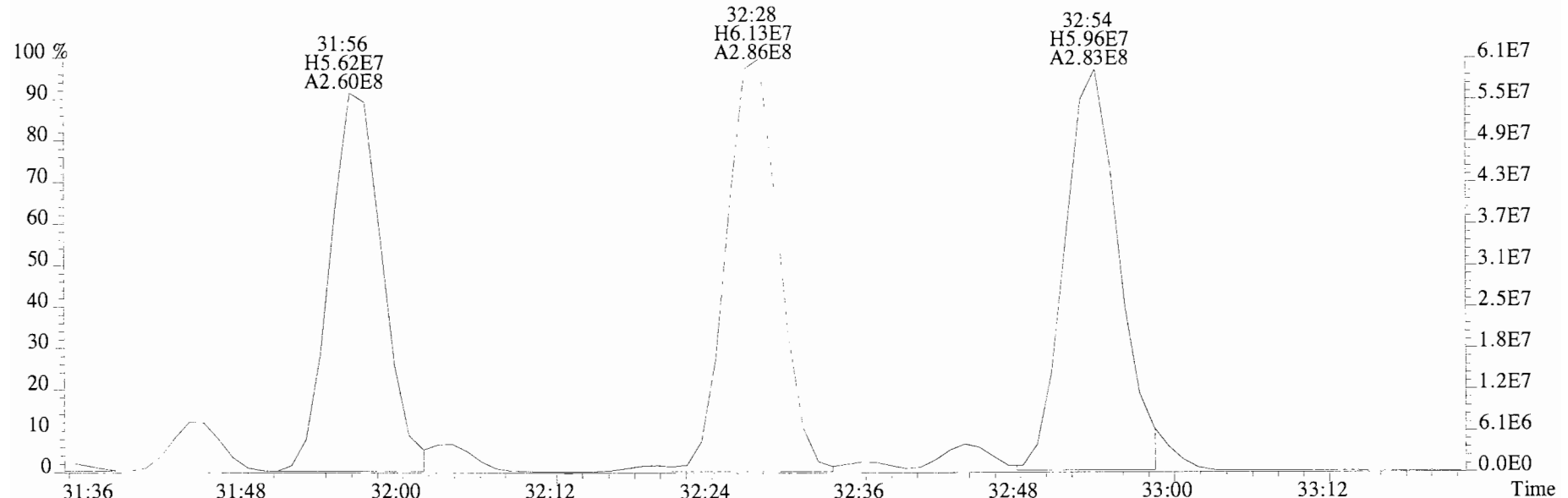


File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,131080.0,0.00%,F,F)

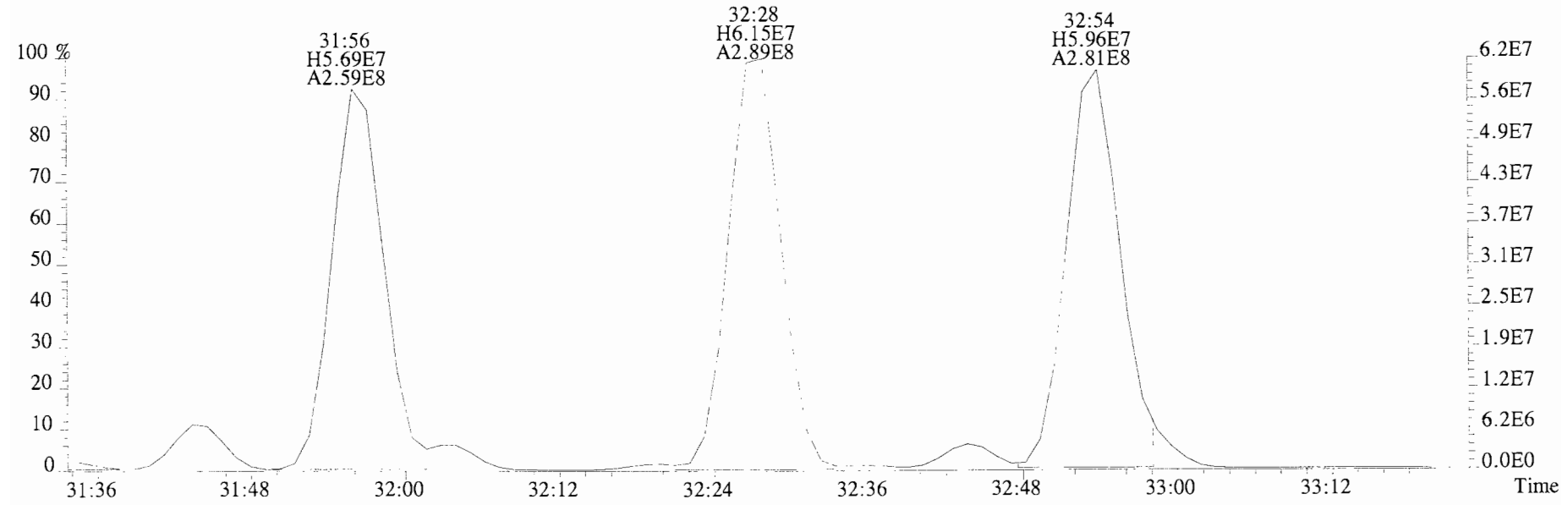




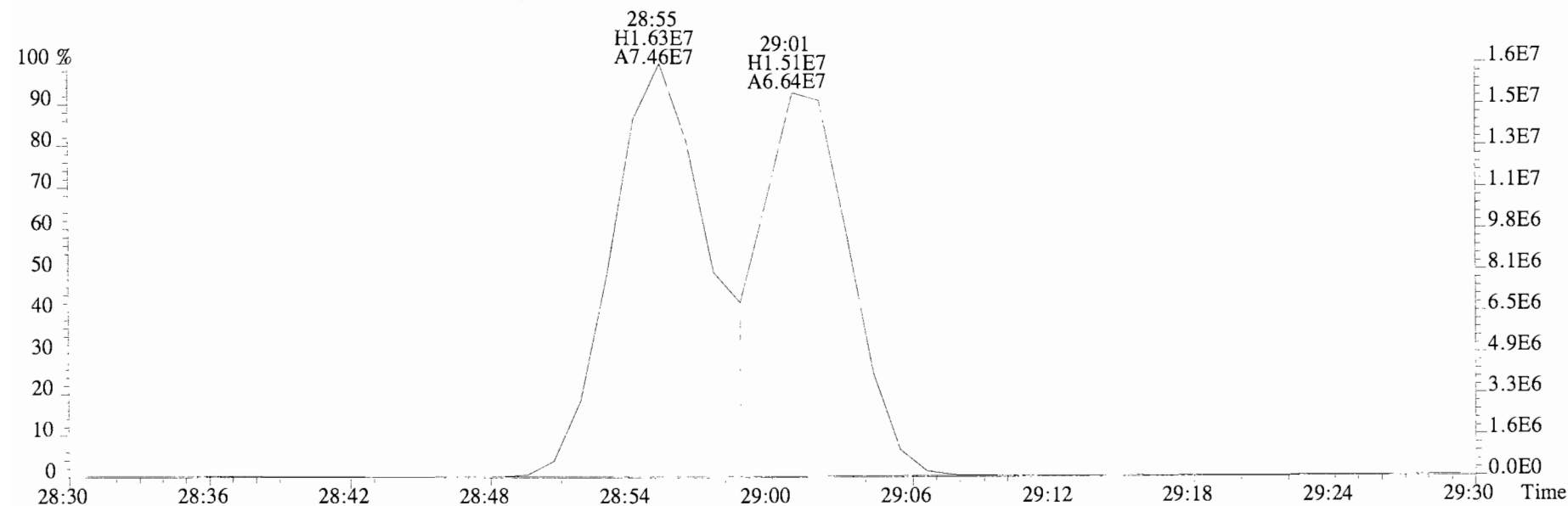
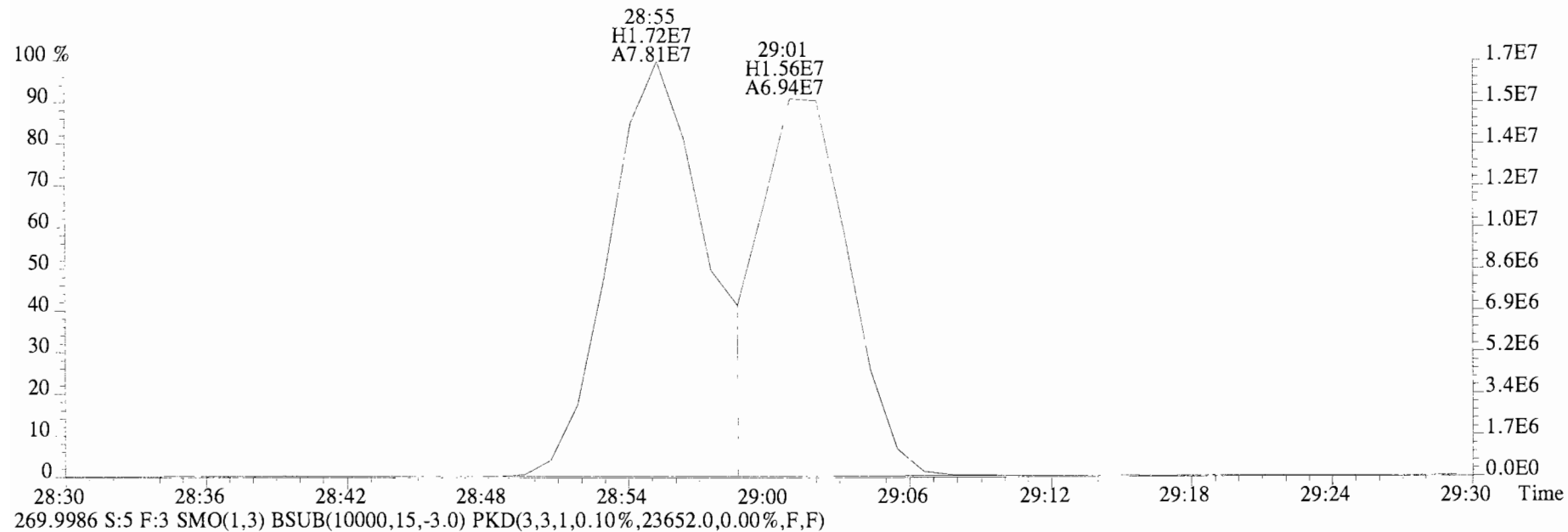
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,131080.0,0.00%,F,F)



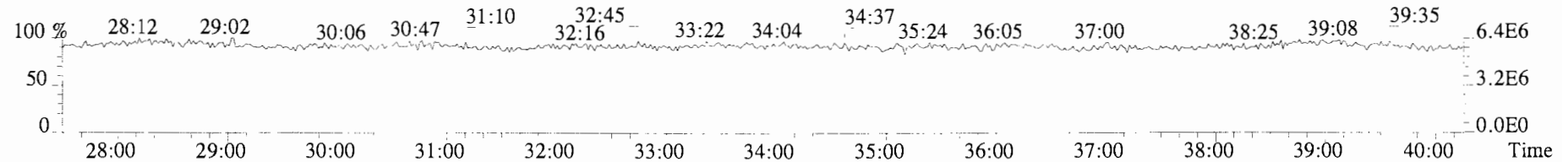
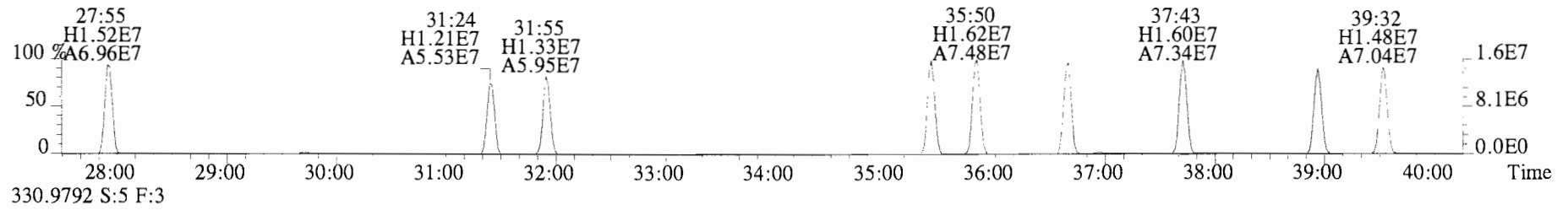
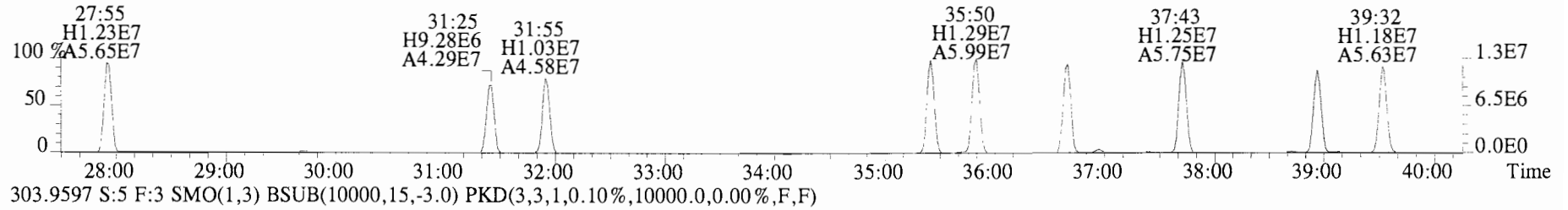
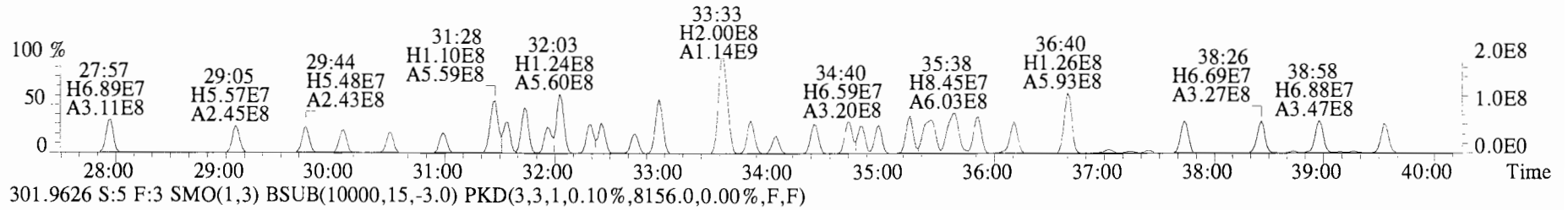
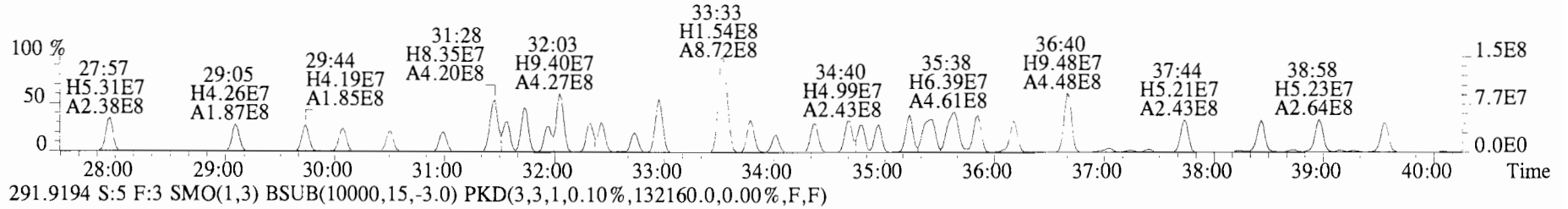
257.9584 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,142976.0,0.00%,F,F)



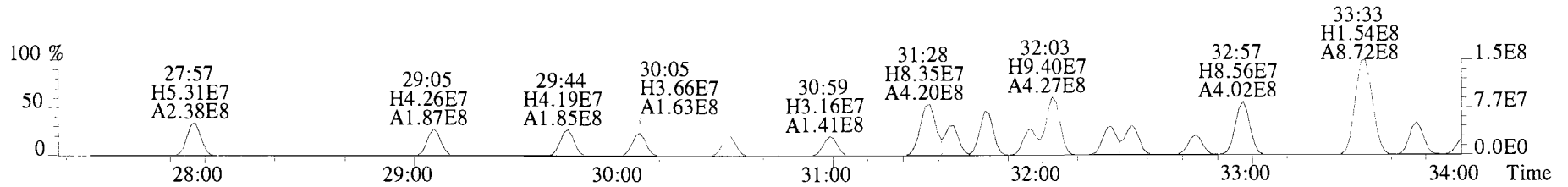
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35560.0,0.00%,F,F)



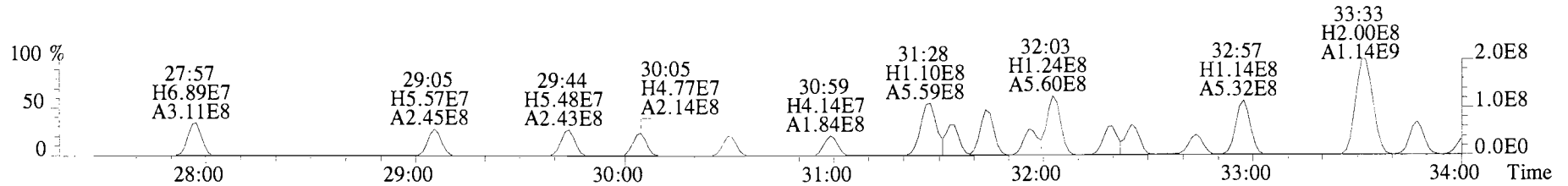
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102956.0,0.00%,F,F)



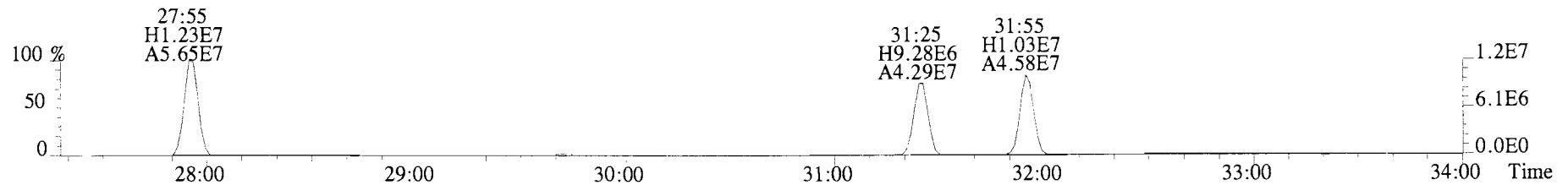
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102956.0,0.00%,F,F)



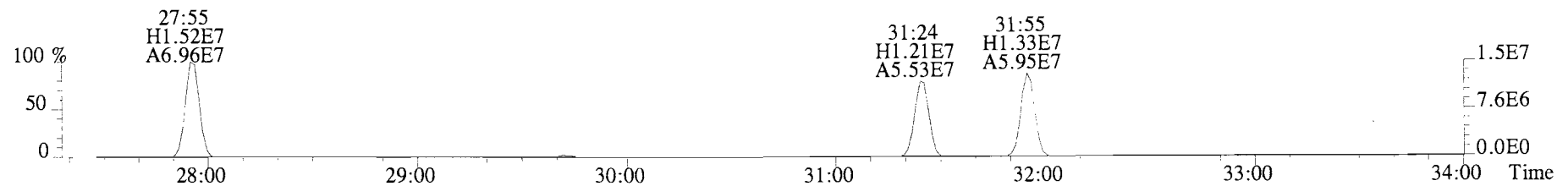
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,132160.0,0.00%,F,F)



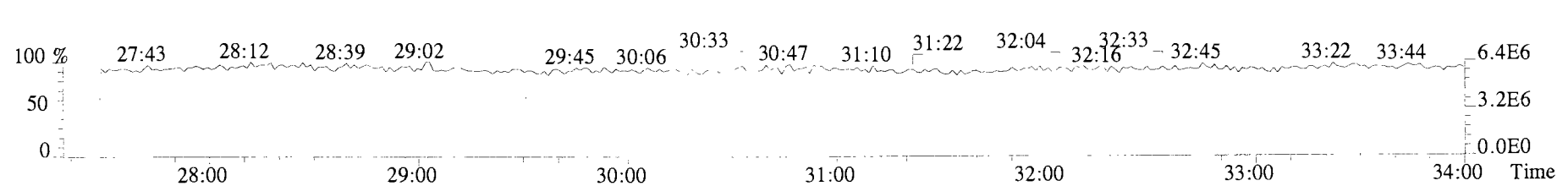
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8156.0,0.00%,F,F)



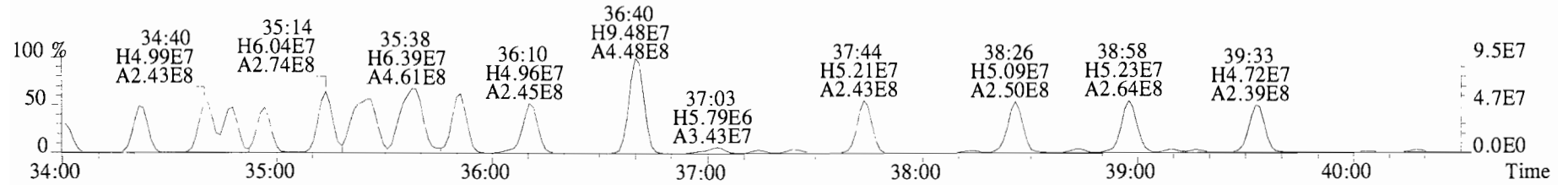
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10000.0,0.00%,F,F)



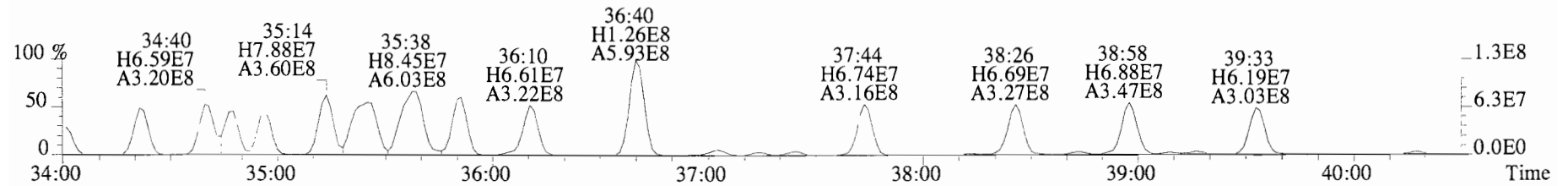
330.9792 S:5 F:3



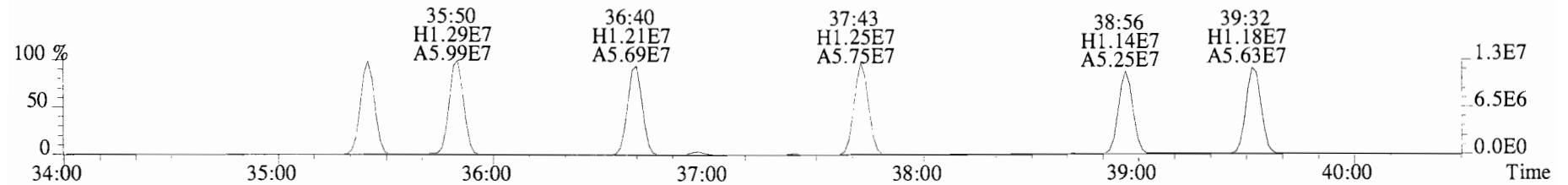
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102956.0,0.00%,F,F)



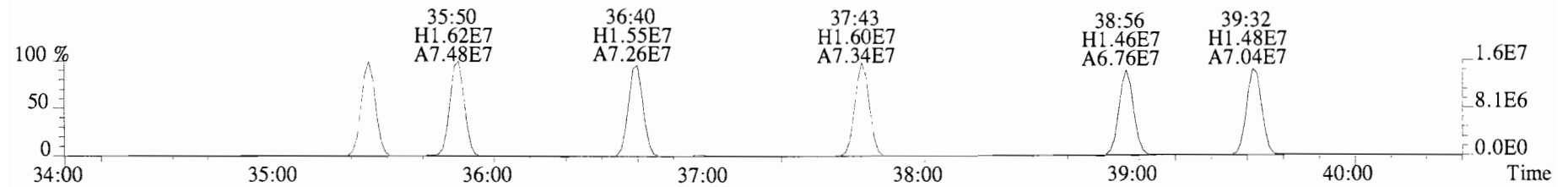
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,132160.0,0.00%,F,F)



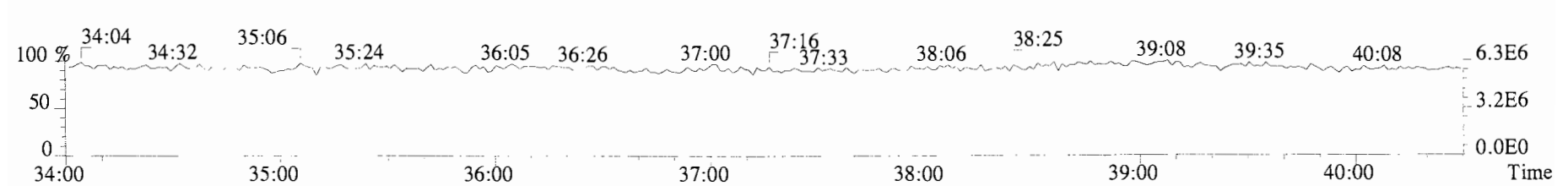
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8156.0,0.00%,F,F)



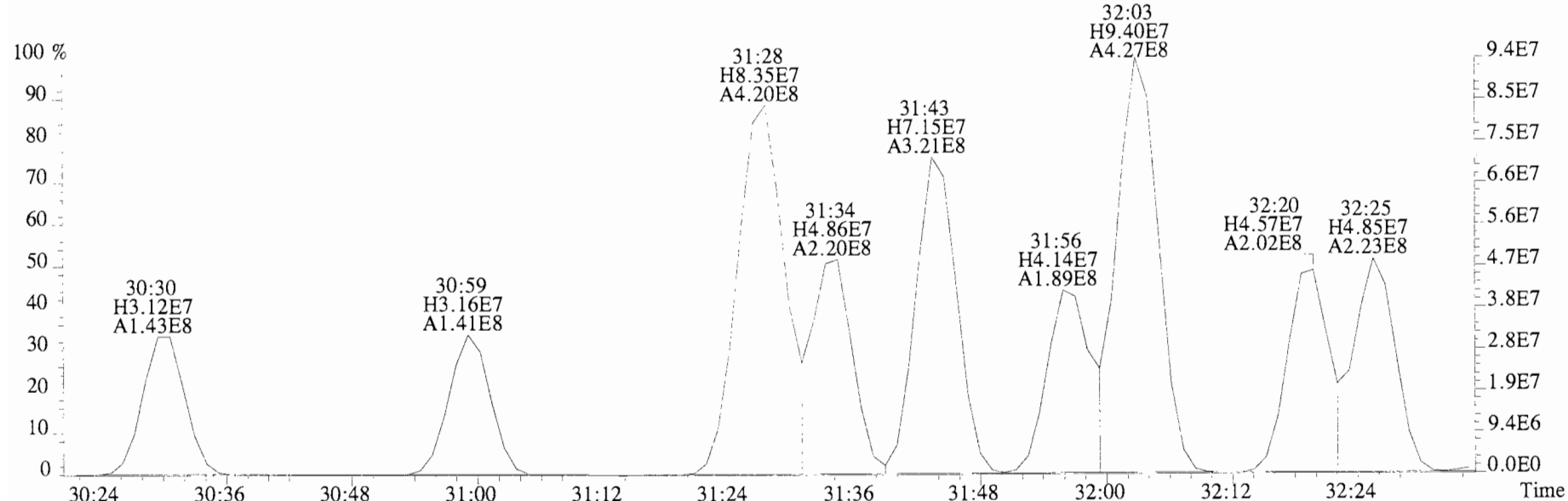
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10000.0,0.00%,F,F)



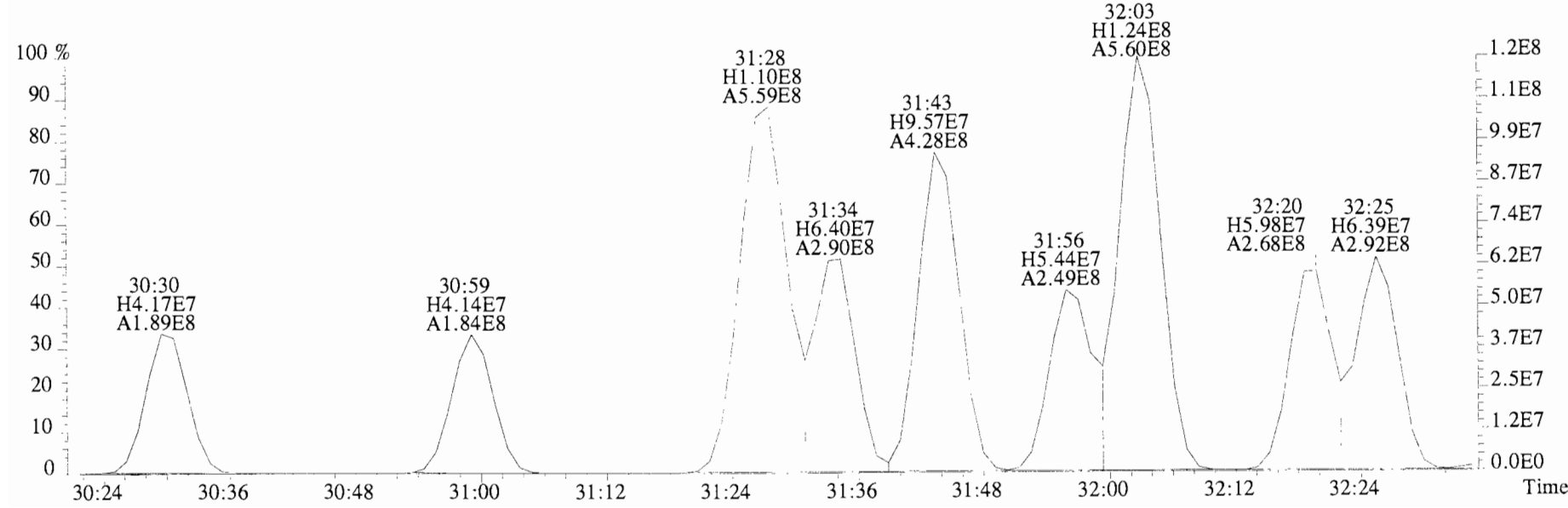
330.9792 S:5 F:3



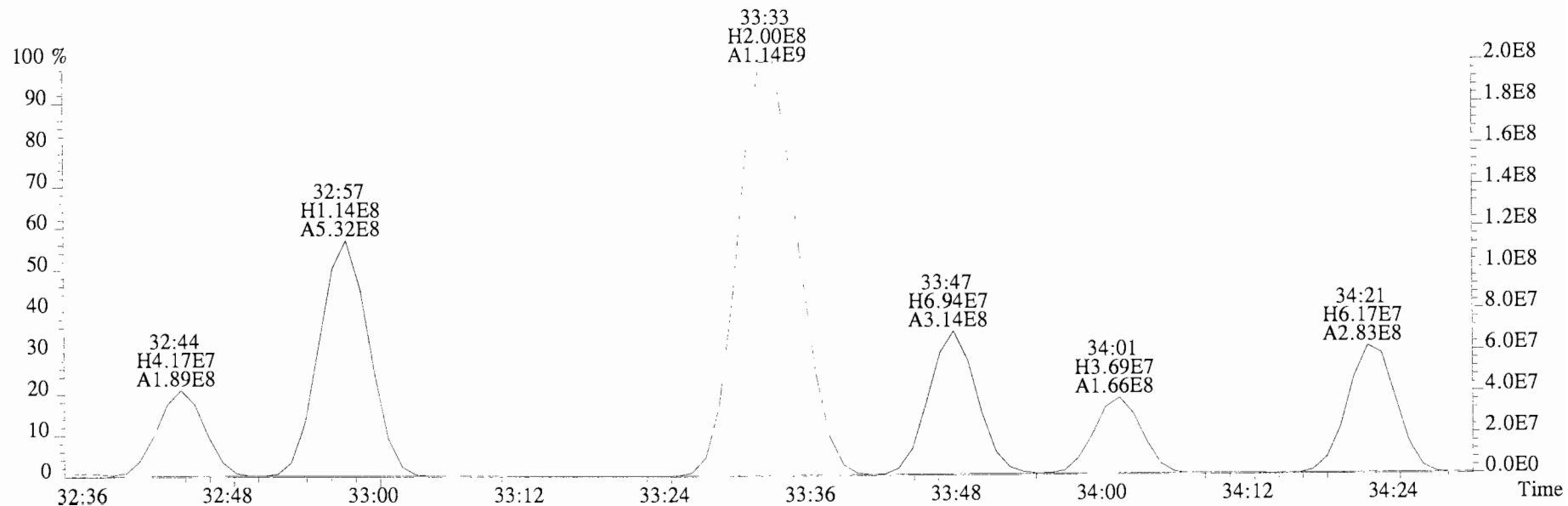
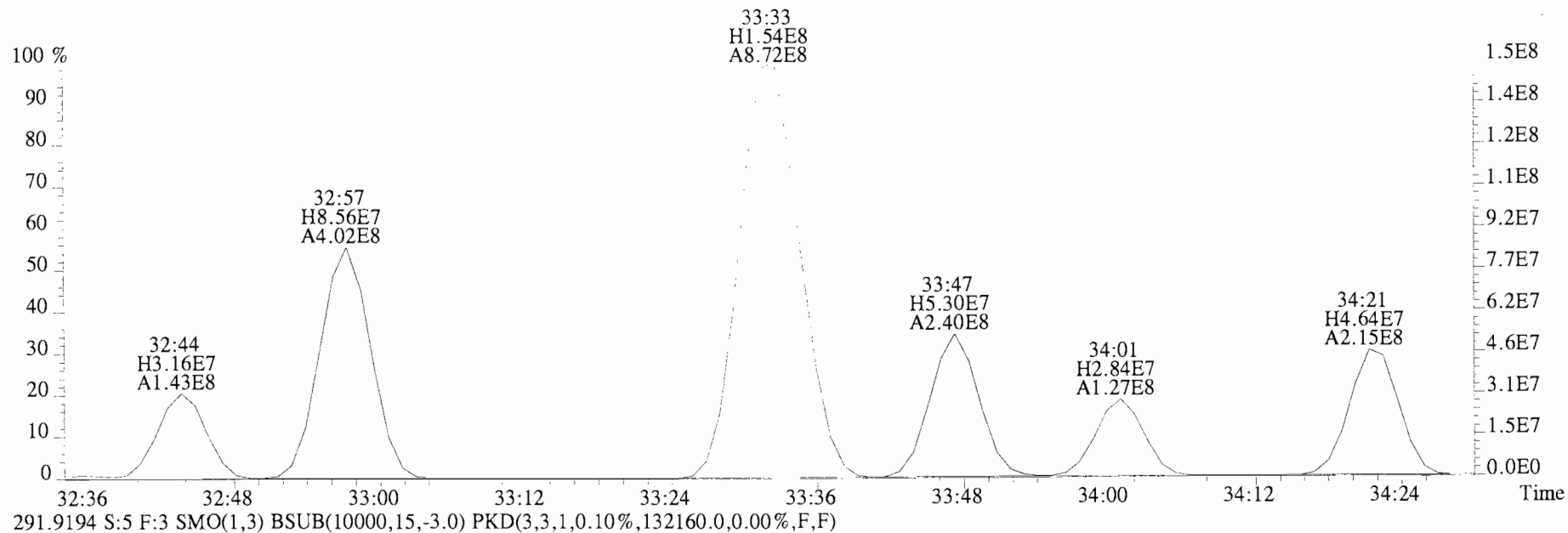
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102956.0,0.00%,F,F)



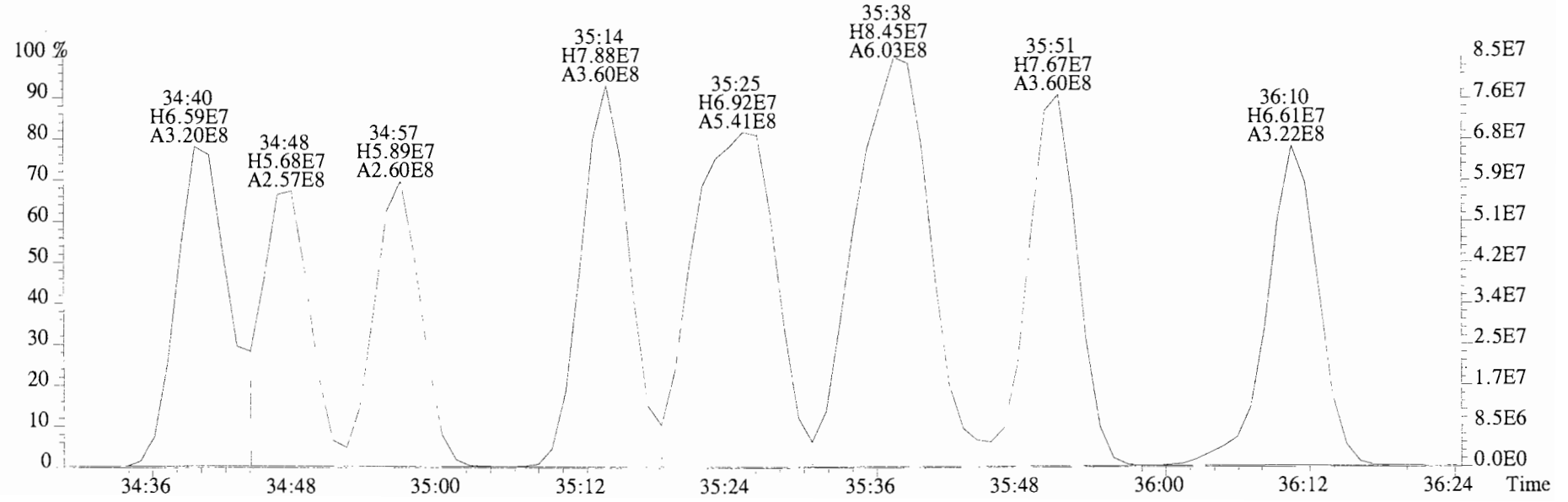
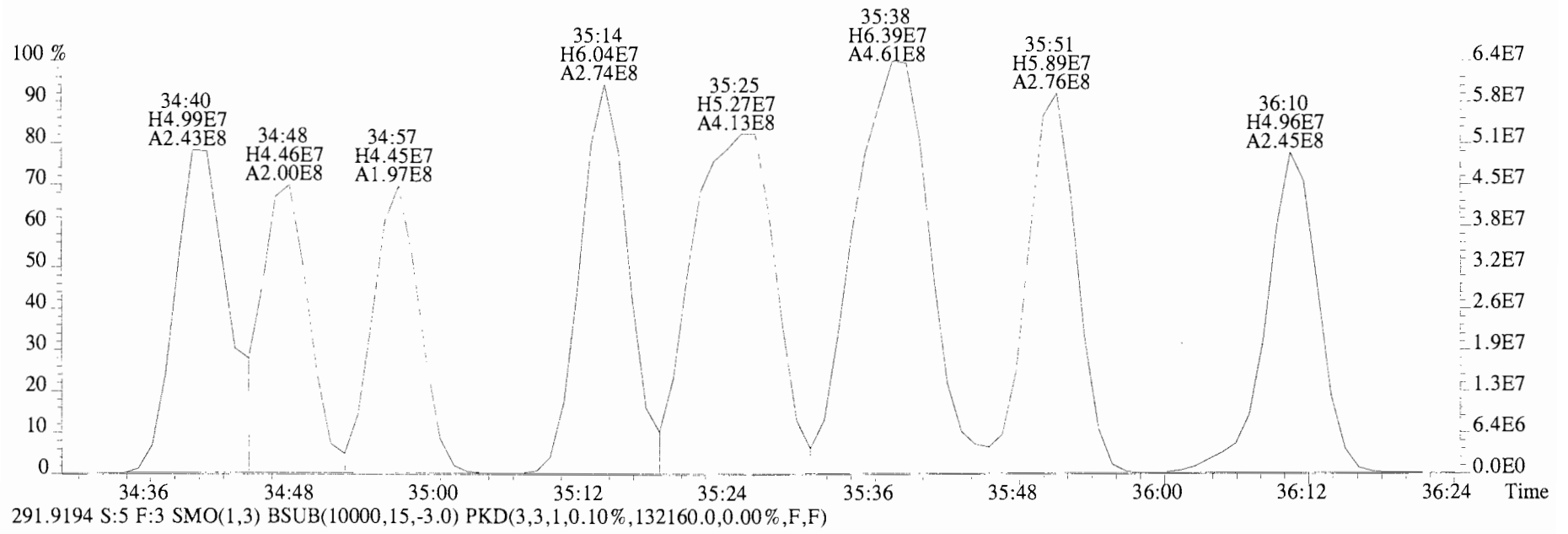
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,132160.0,0.00%,F,F)



File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102956.0,0.00%,F,F)

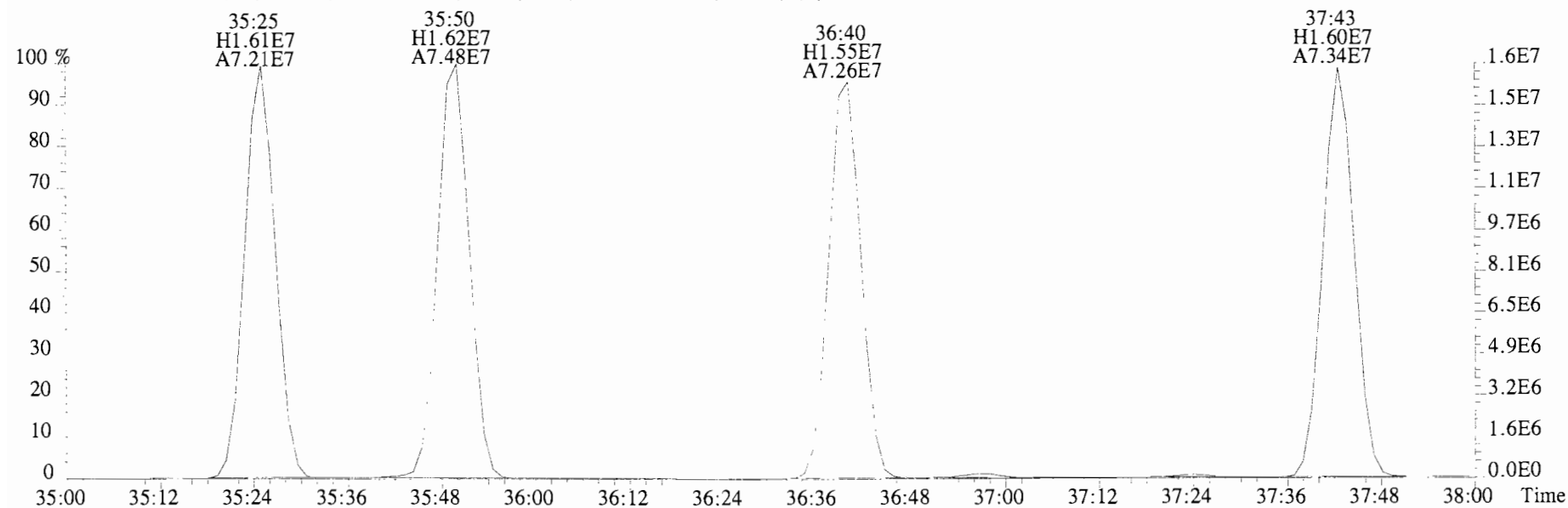
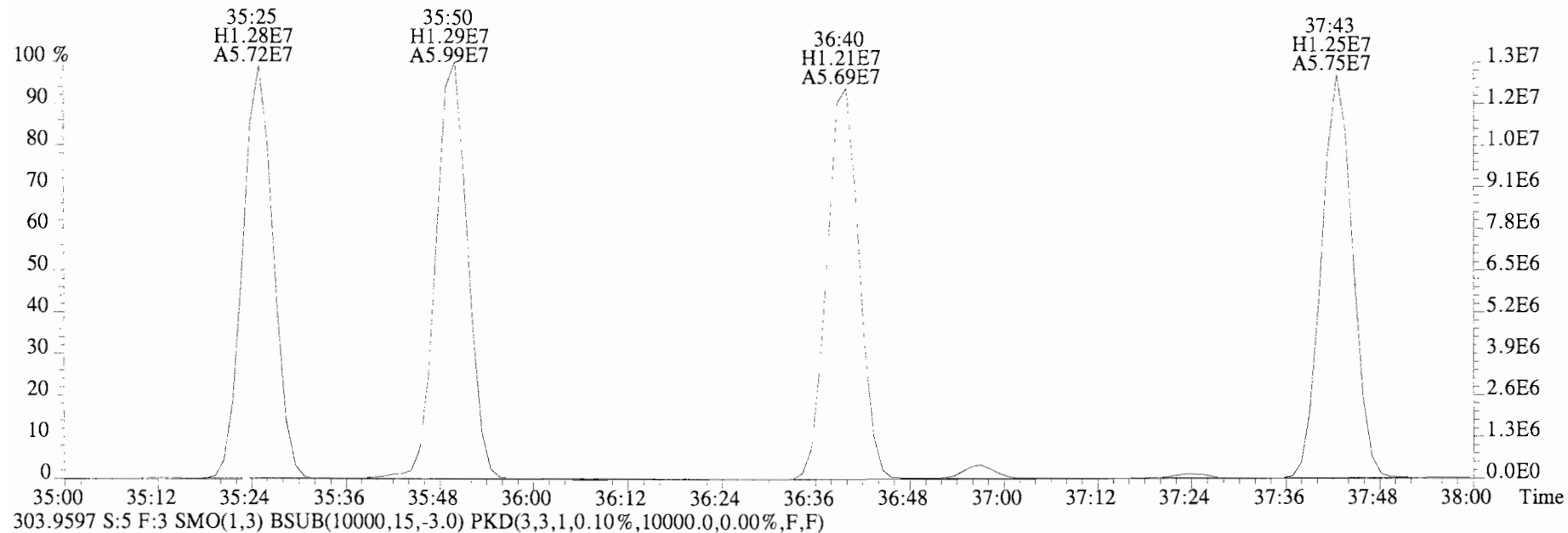


File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102956.0,0.00%,F,F)

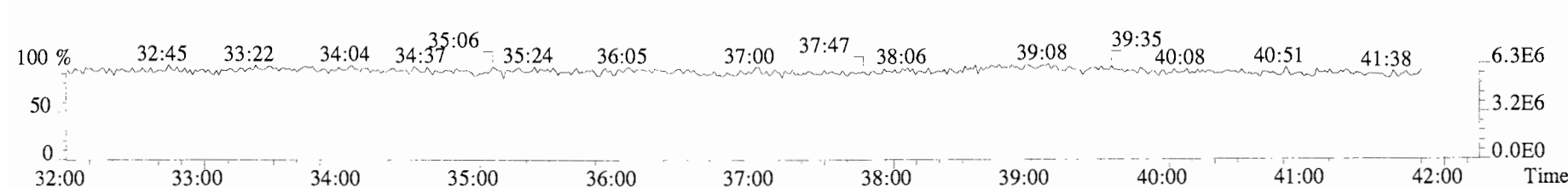
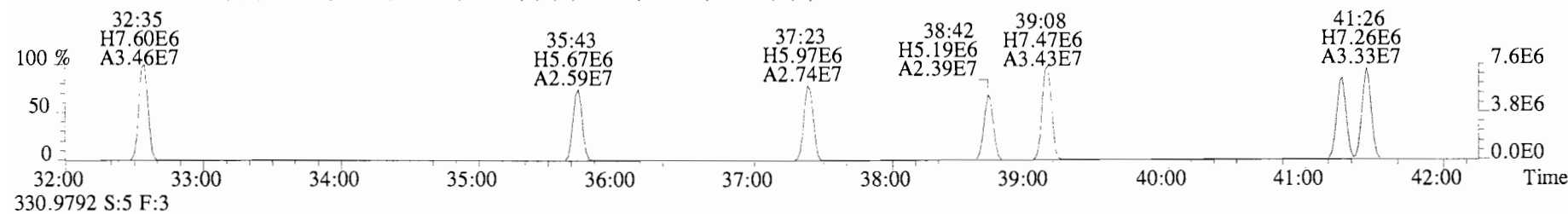
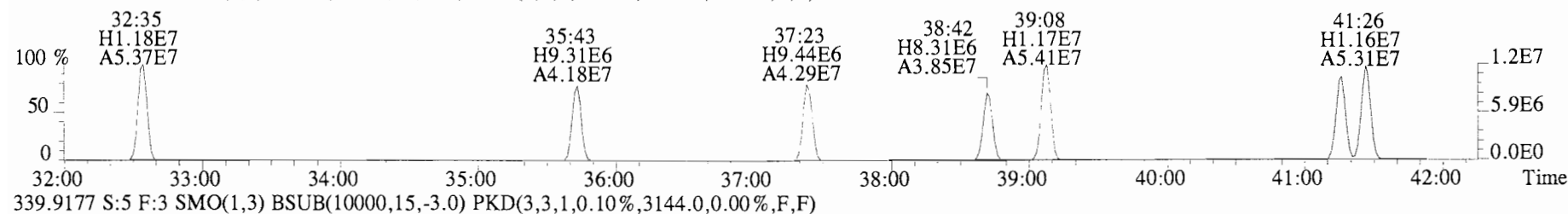
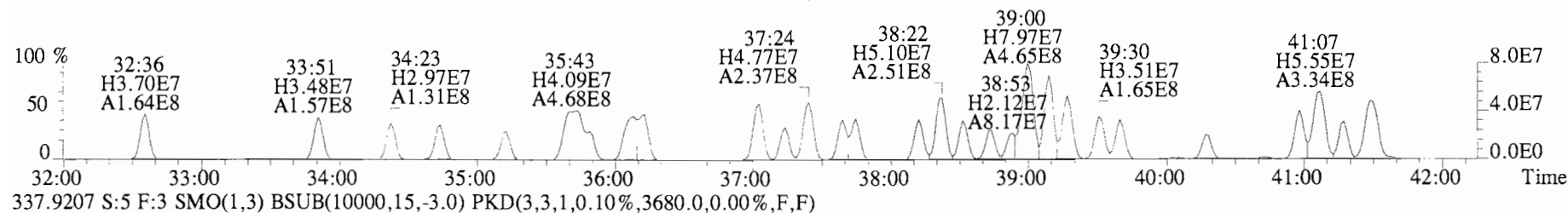
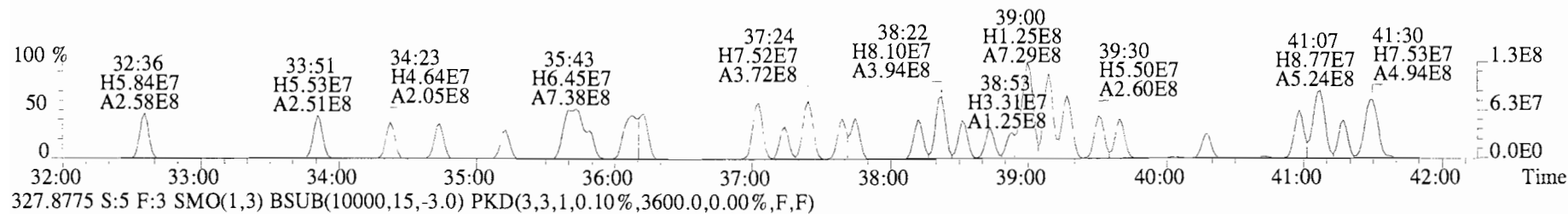




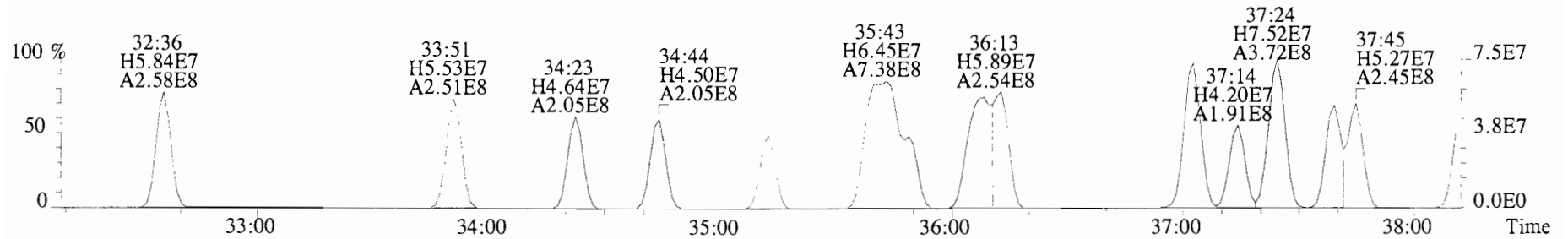
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8156.0,0.00%,F,F)



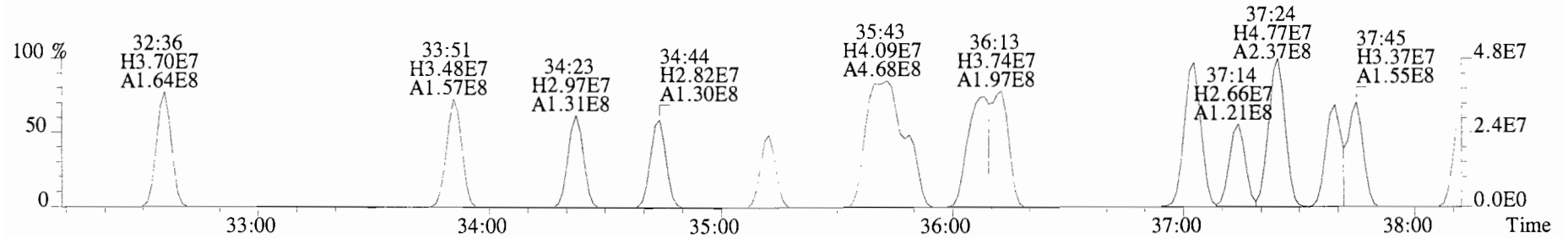
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3912.0,0.00%,F,F)



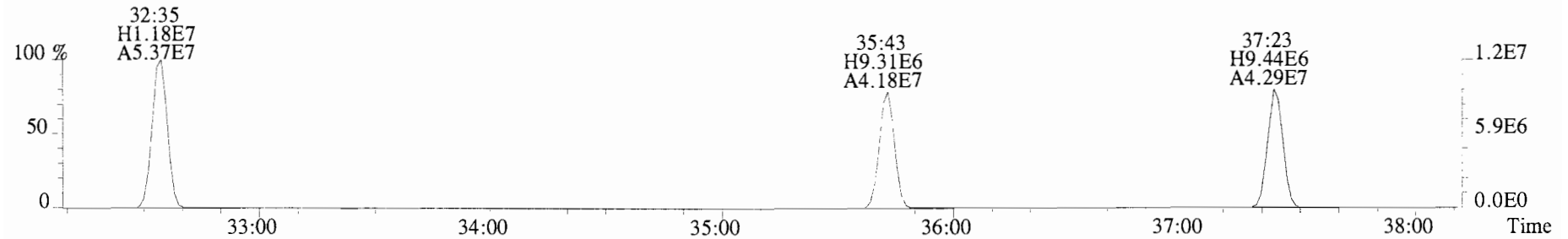
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3912.0,0.00%,F,F)



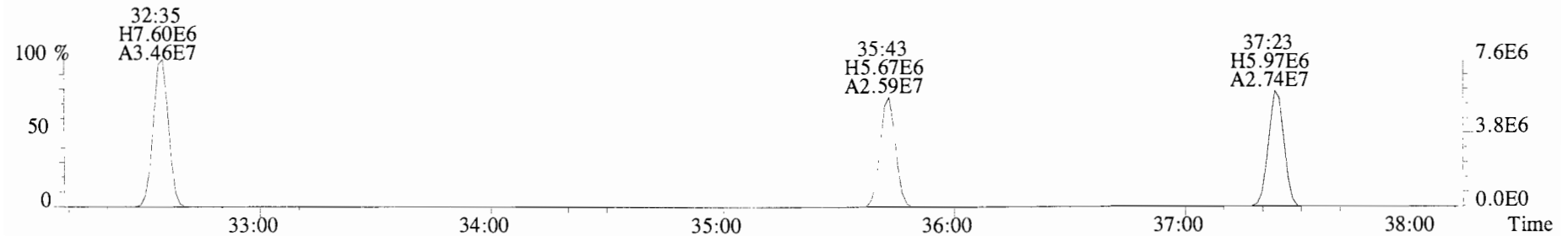
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3600.0,0.00%,F,F)



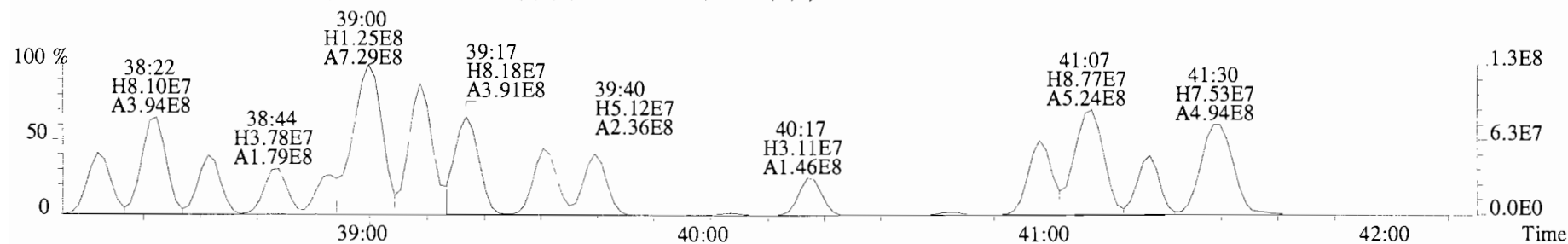
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3680.0,0.00%,F,F)



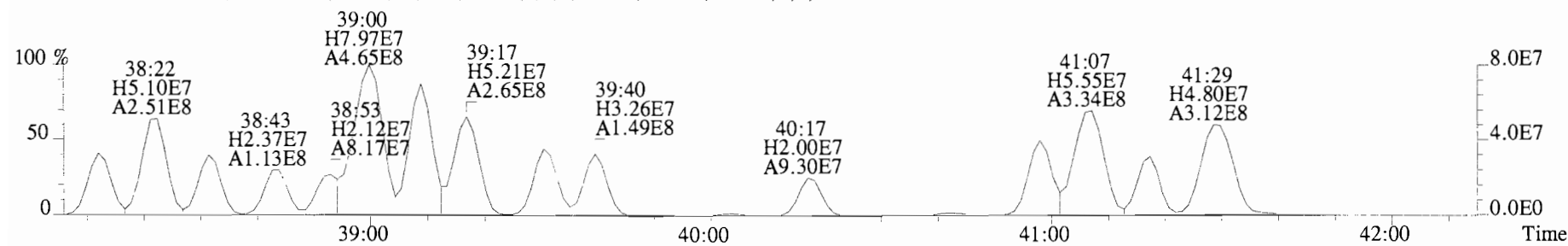
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



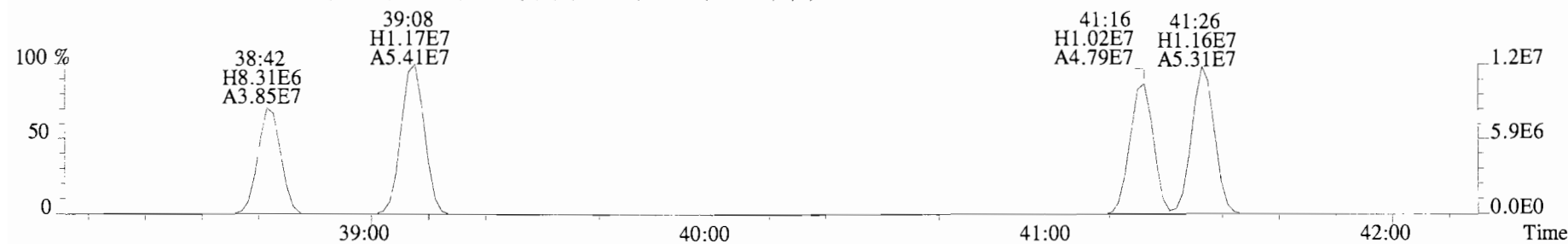
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3912.0,0.00%,F,F)



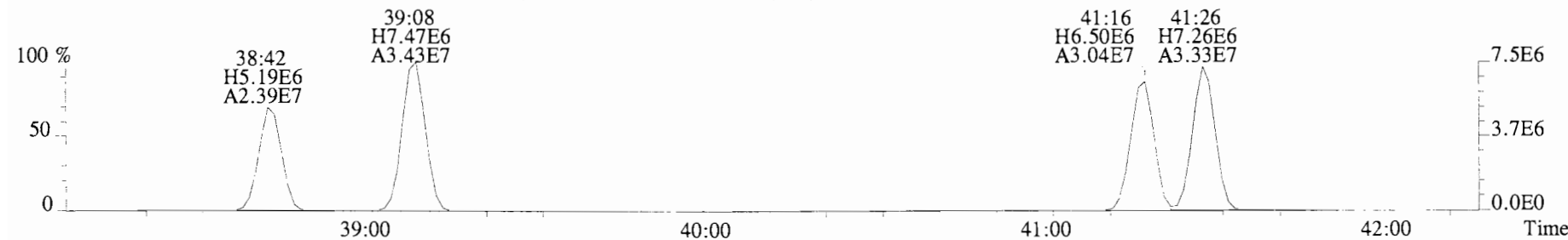
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3600.0,0.00%,F,F)



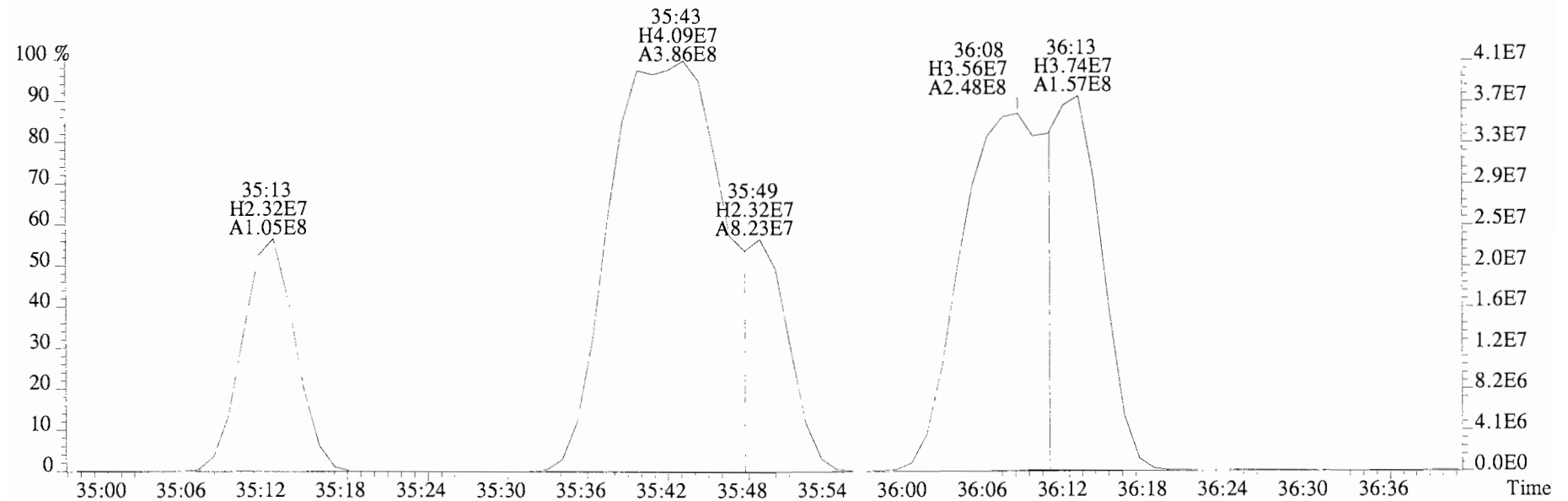
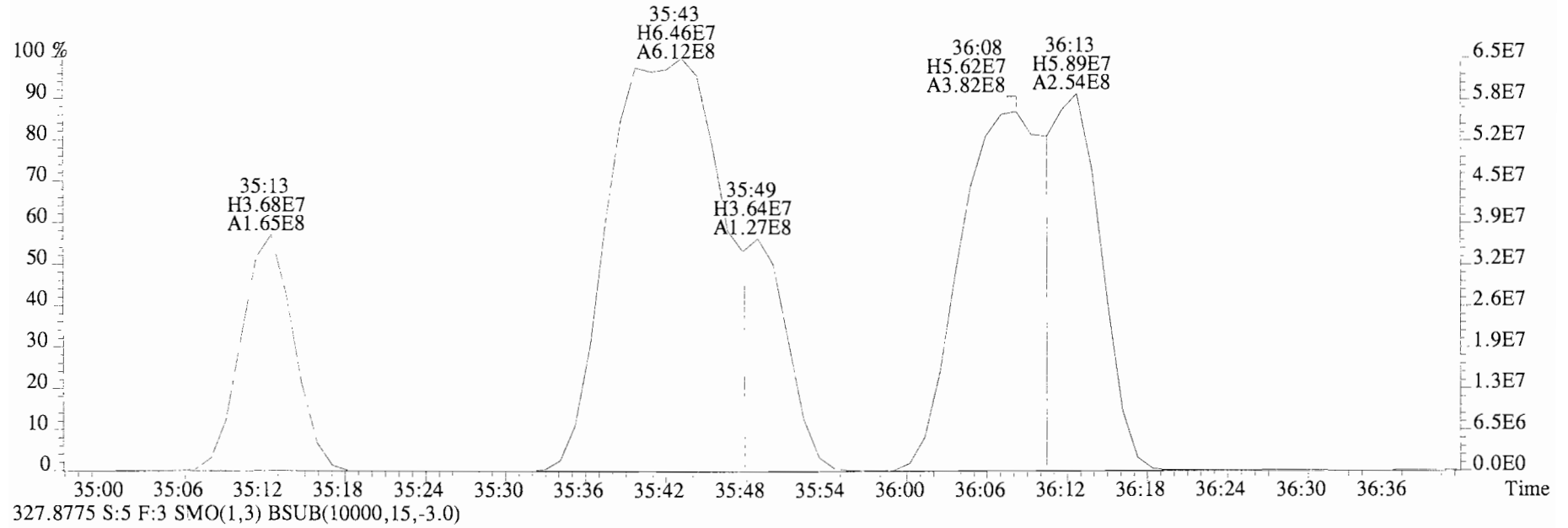
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3680.0,0.00%,F,F)



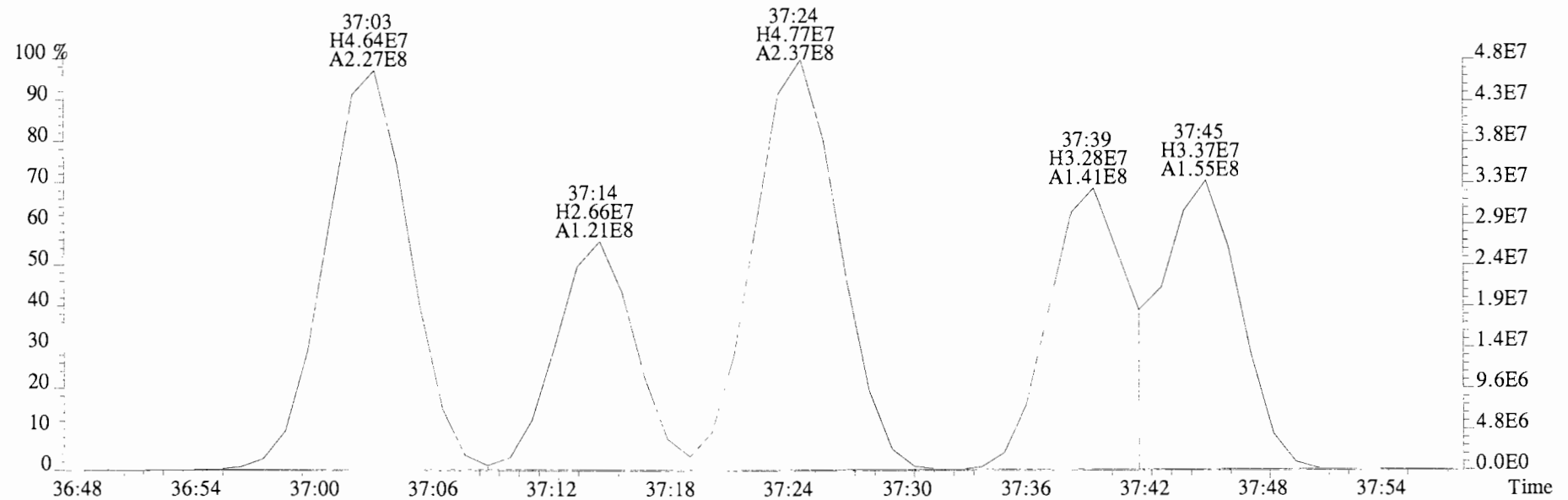
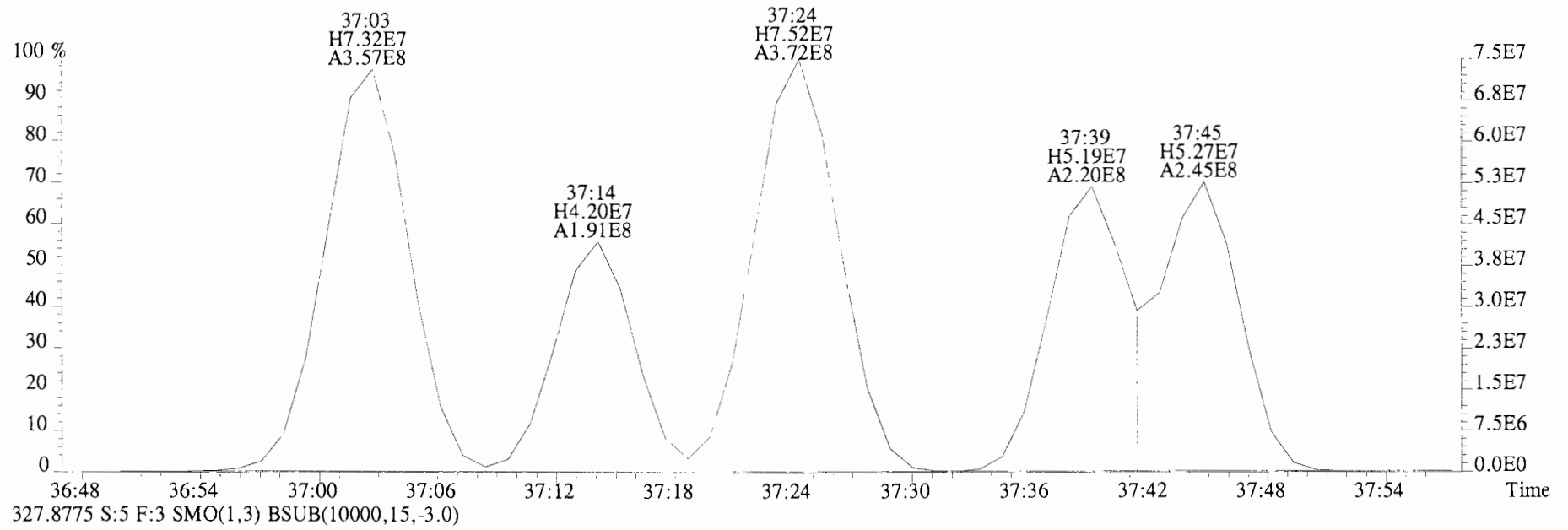
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3144.0,0.00%,F,F)



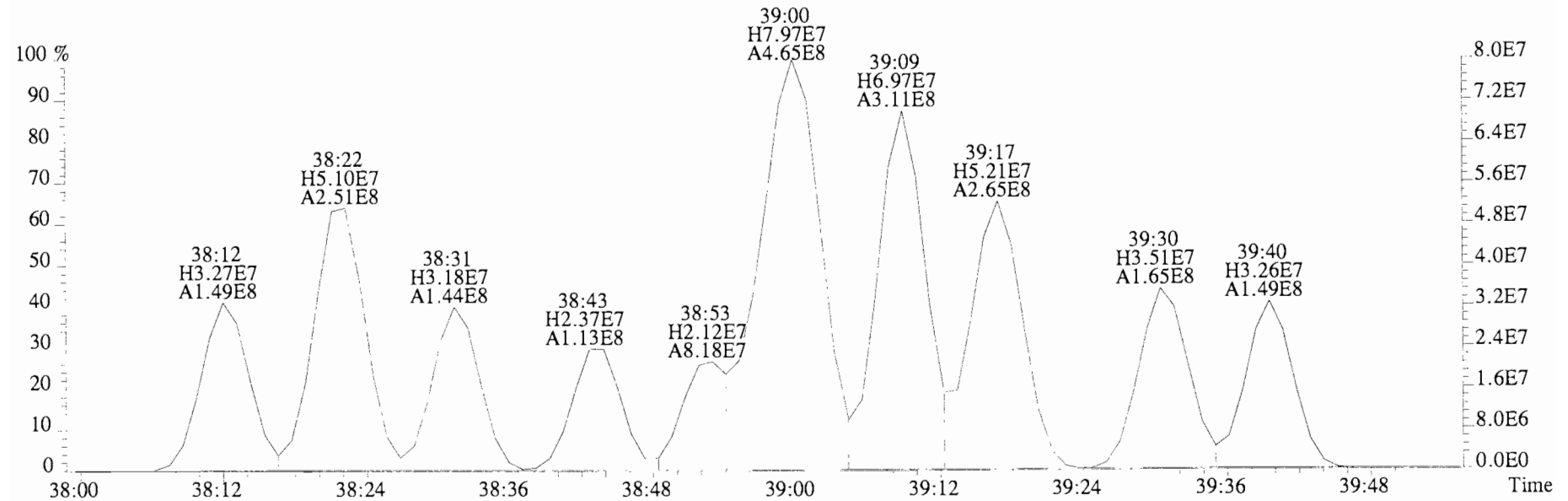
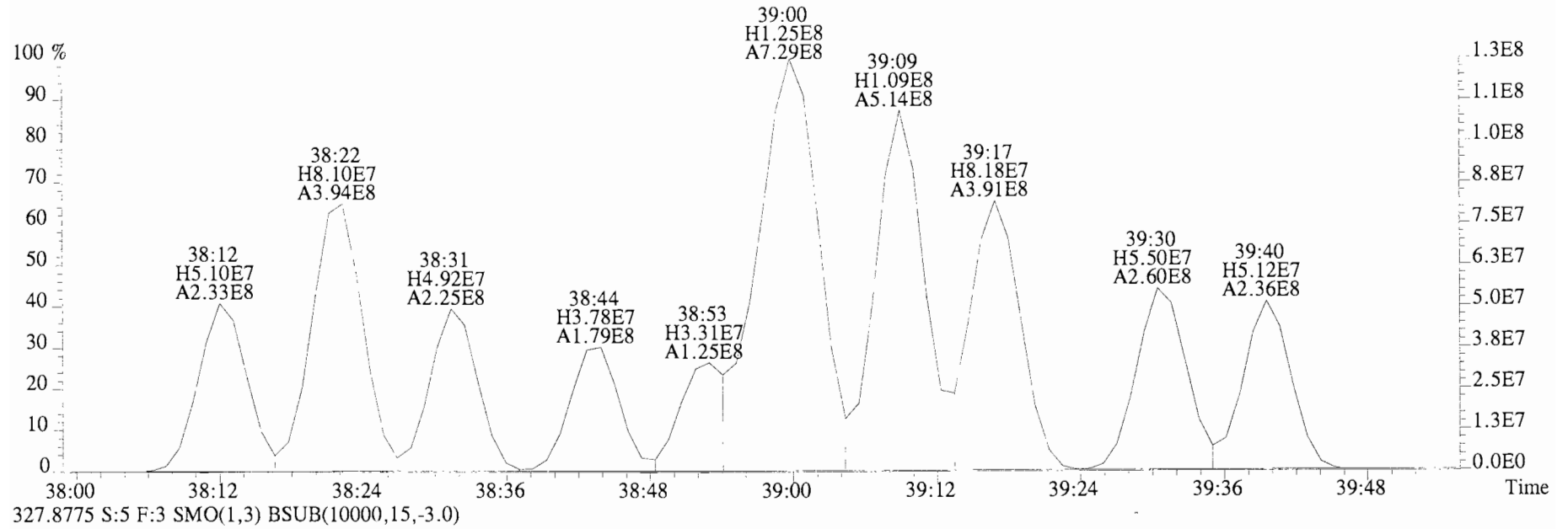
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



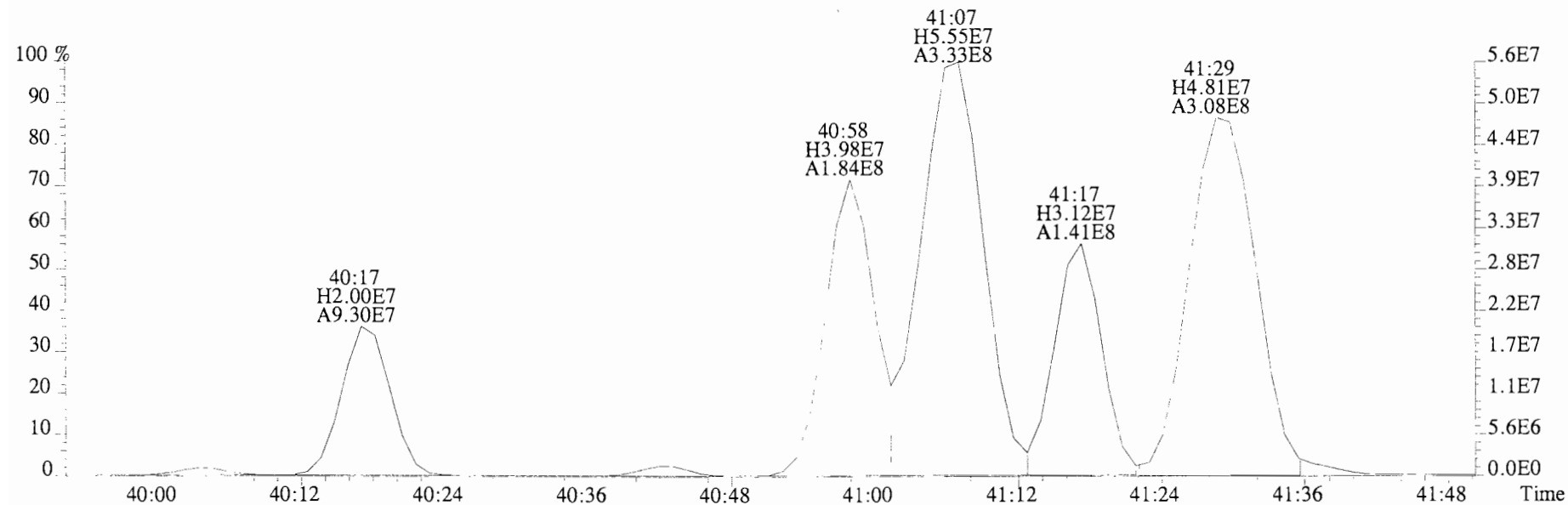
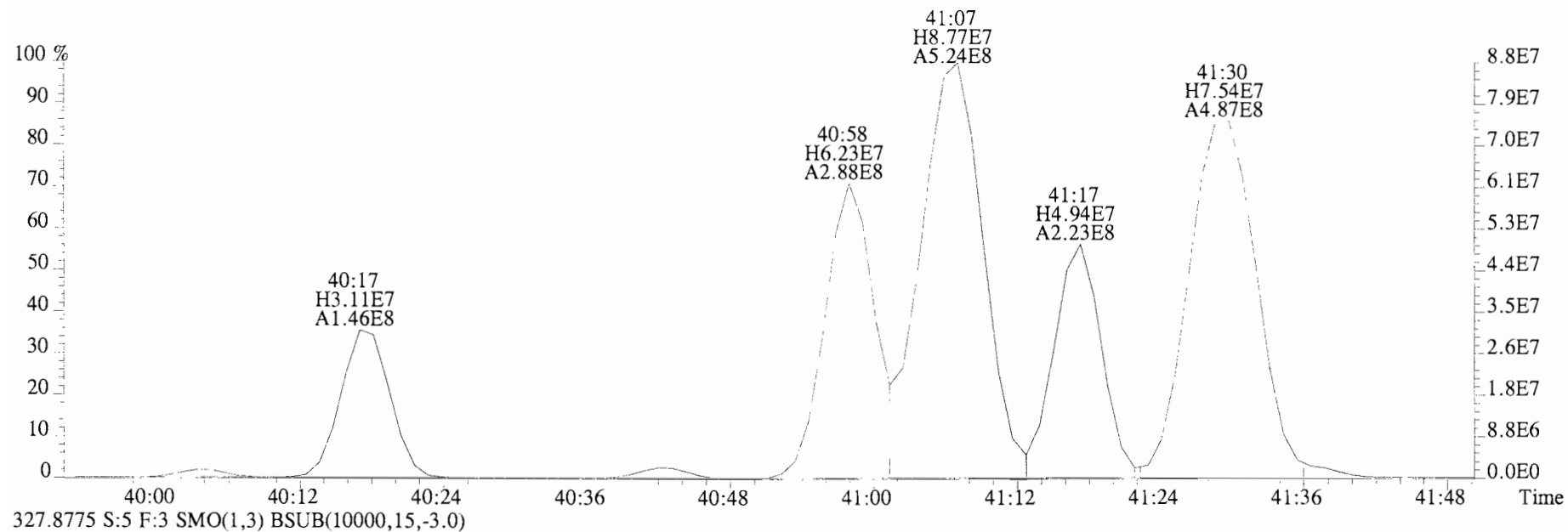
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)



File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)

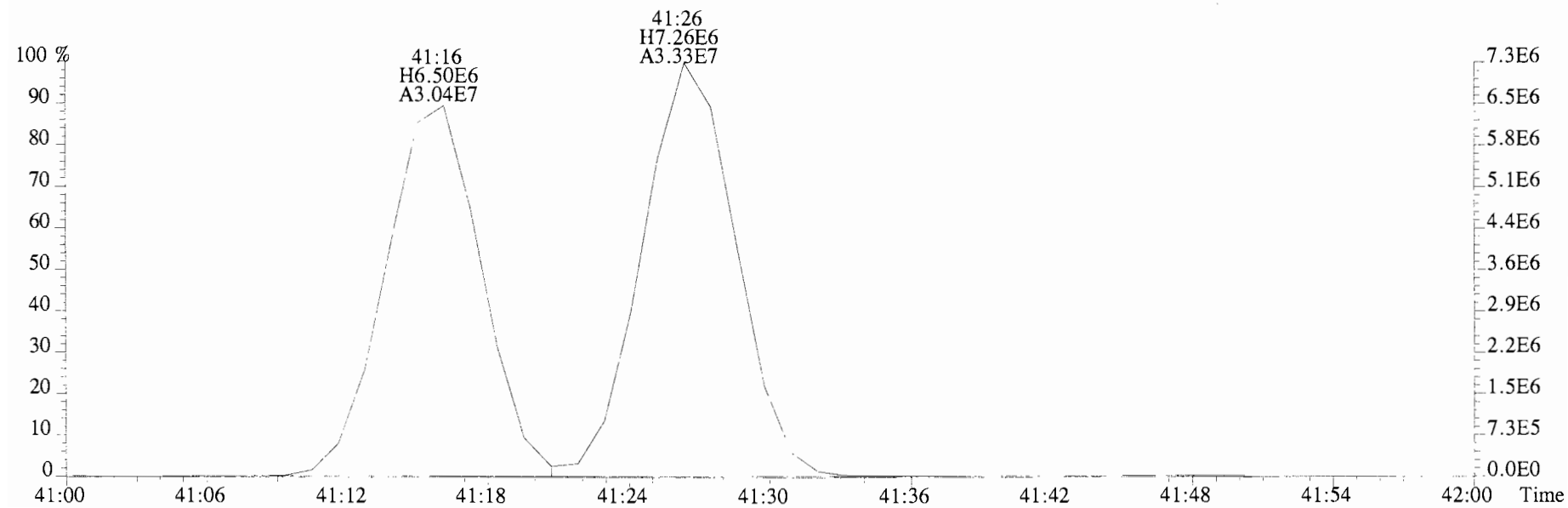
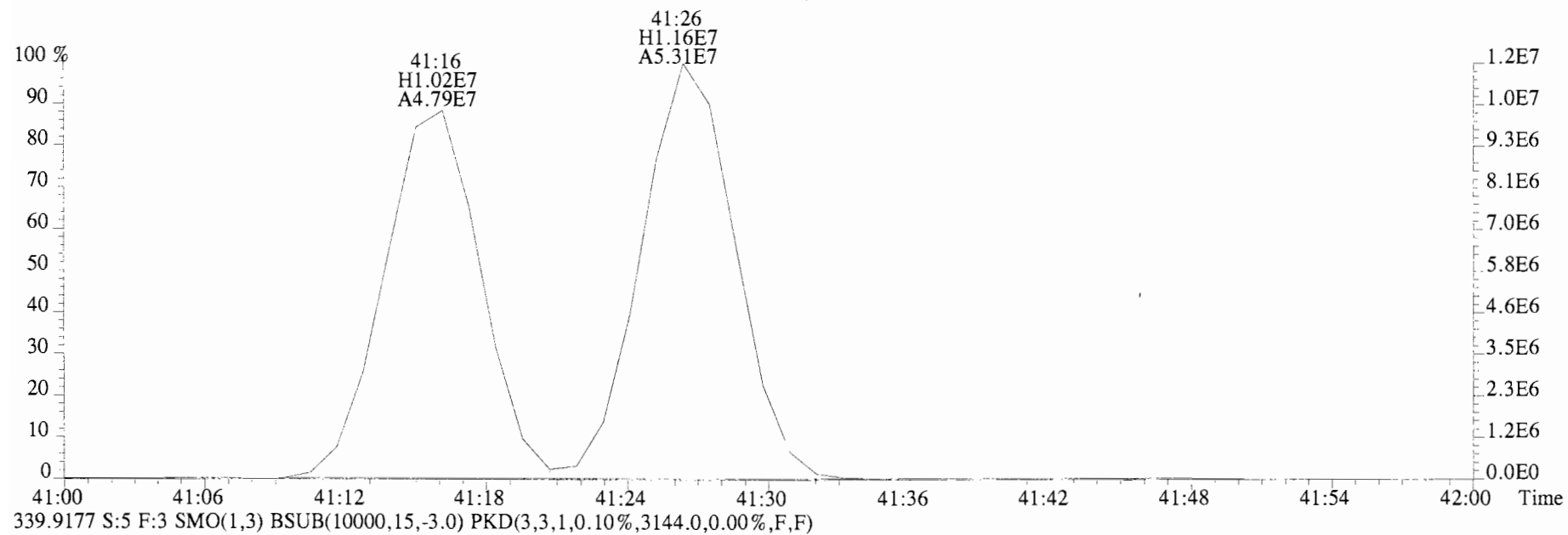


File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0)

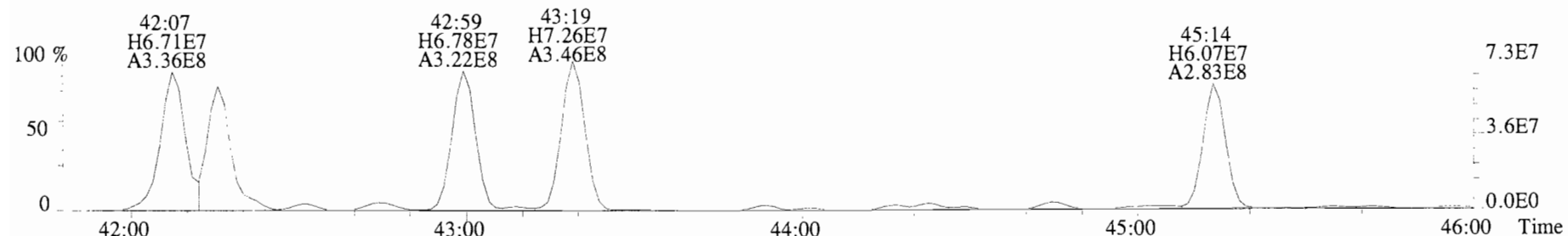




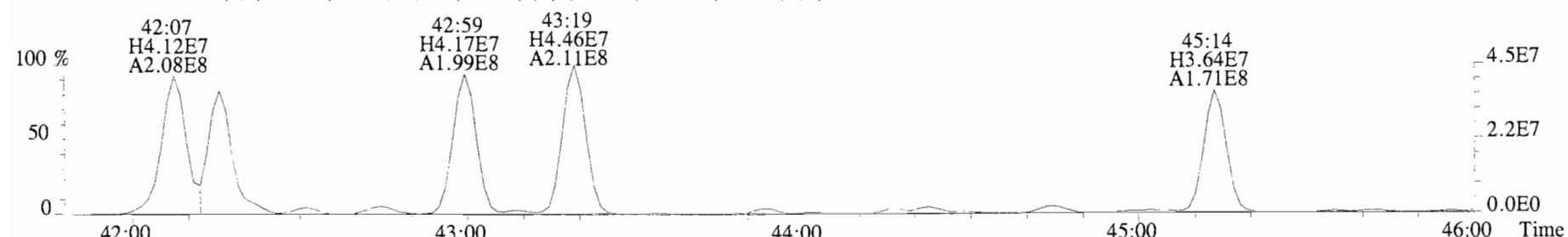
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3680.0,0.00%,F,F)



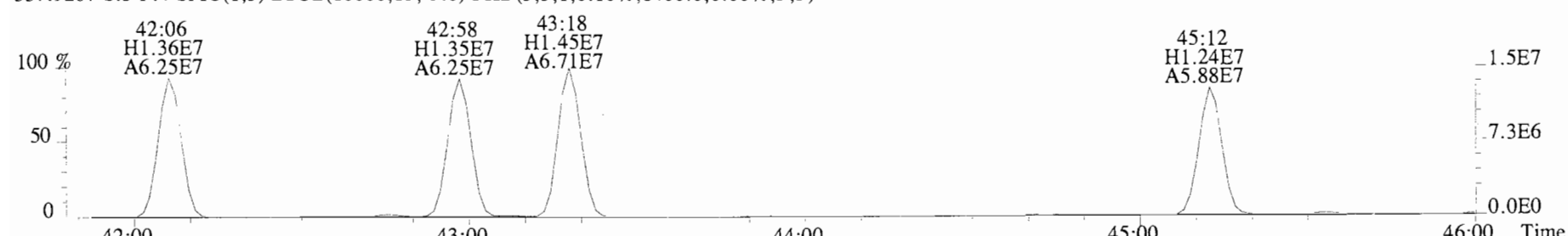
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,82532.0,0.00%,F,F)



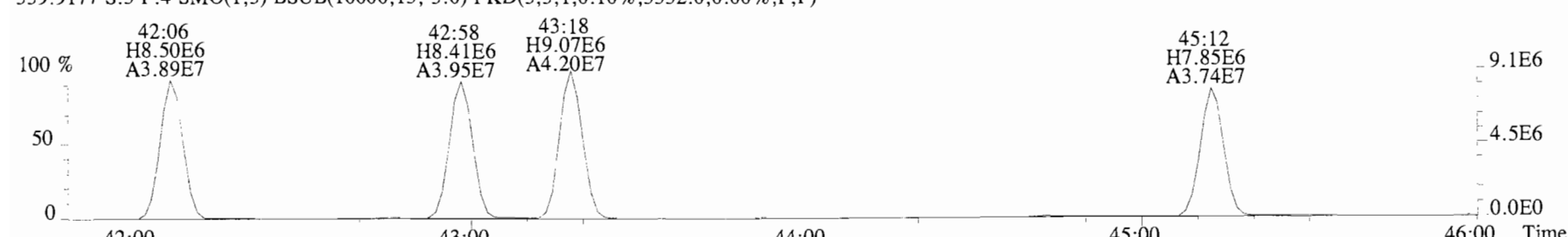
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35236.0,0.00%,F,F)



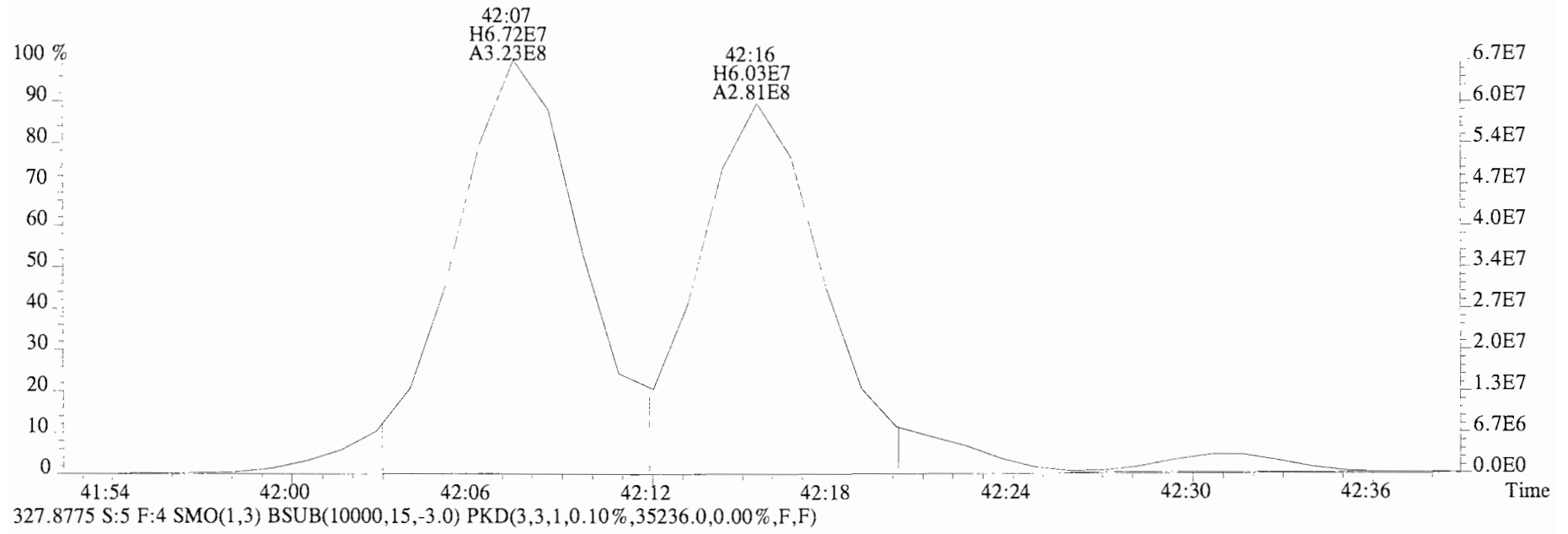
337.9207 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8400.0,0.00%,F,F)



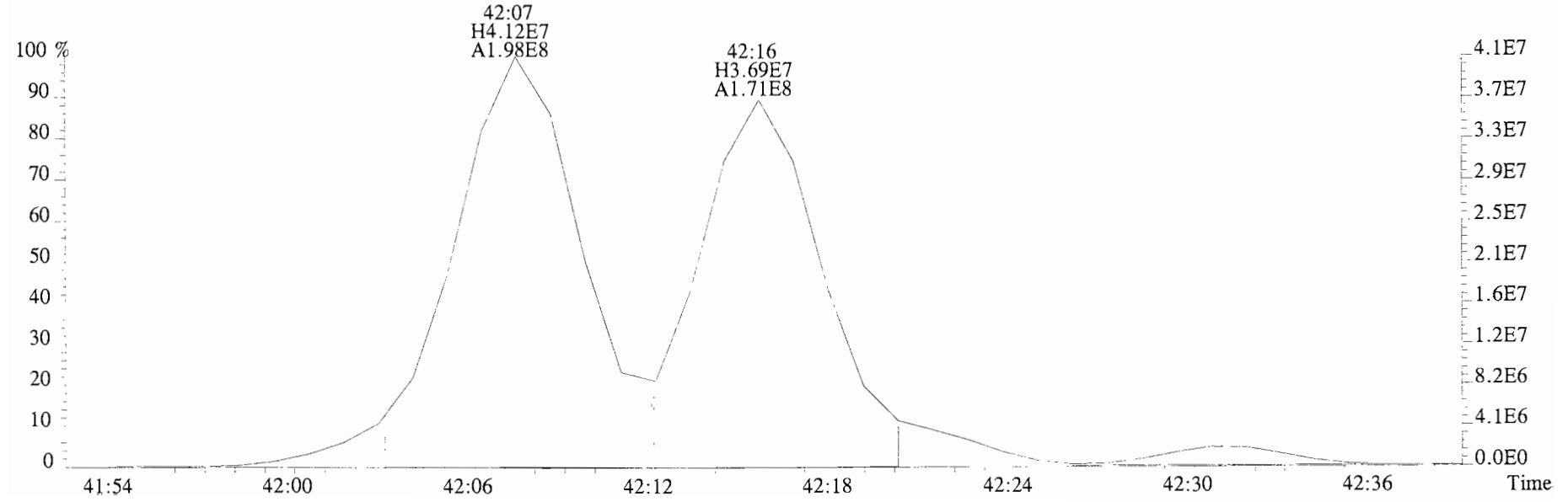
339.9177 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5552.0,0.00%,F,F)



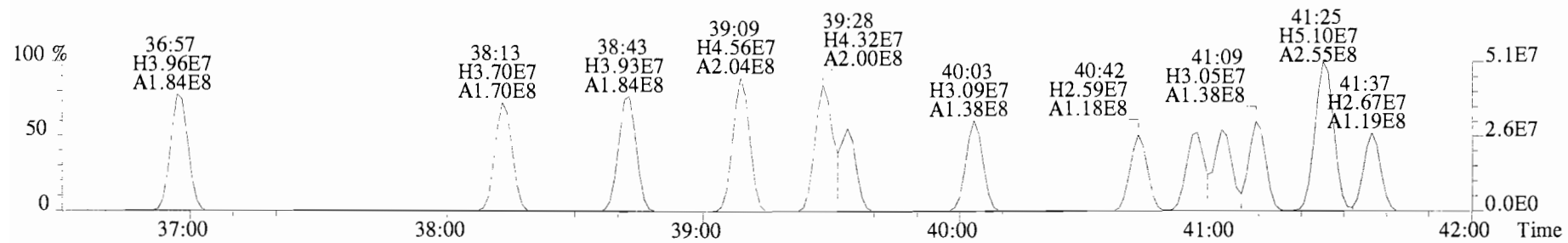
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,82532.0,0.00%,F,F)



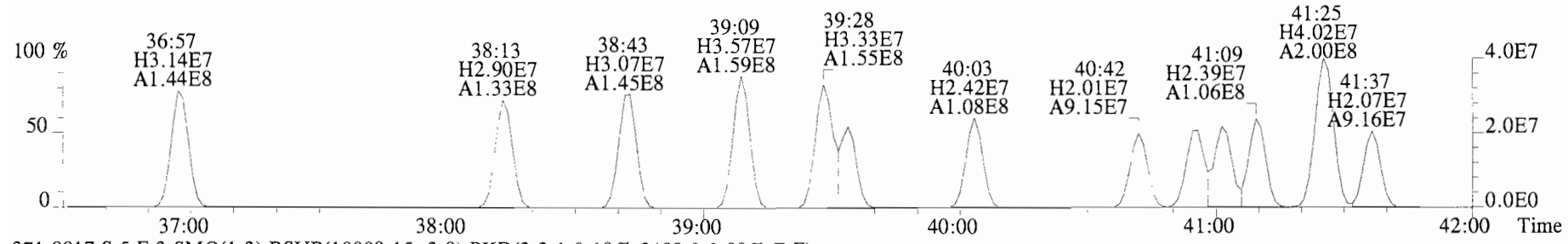
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,35236.0,0.00%,F,F)



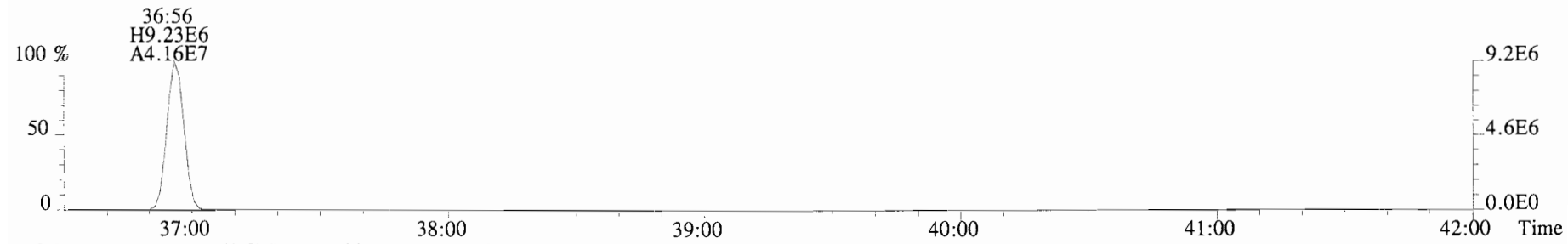
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2300.0,0.00%,F,F)



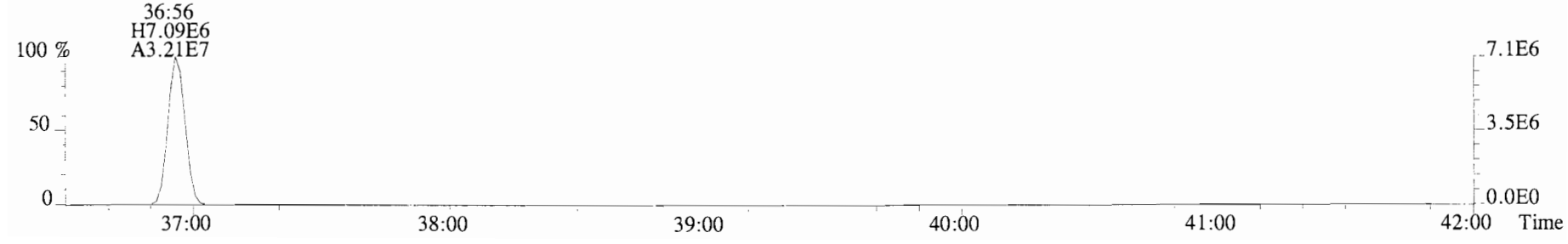
361.8385 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1984.0,0.00%,F,F)



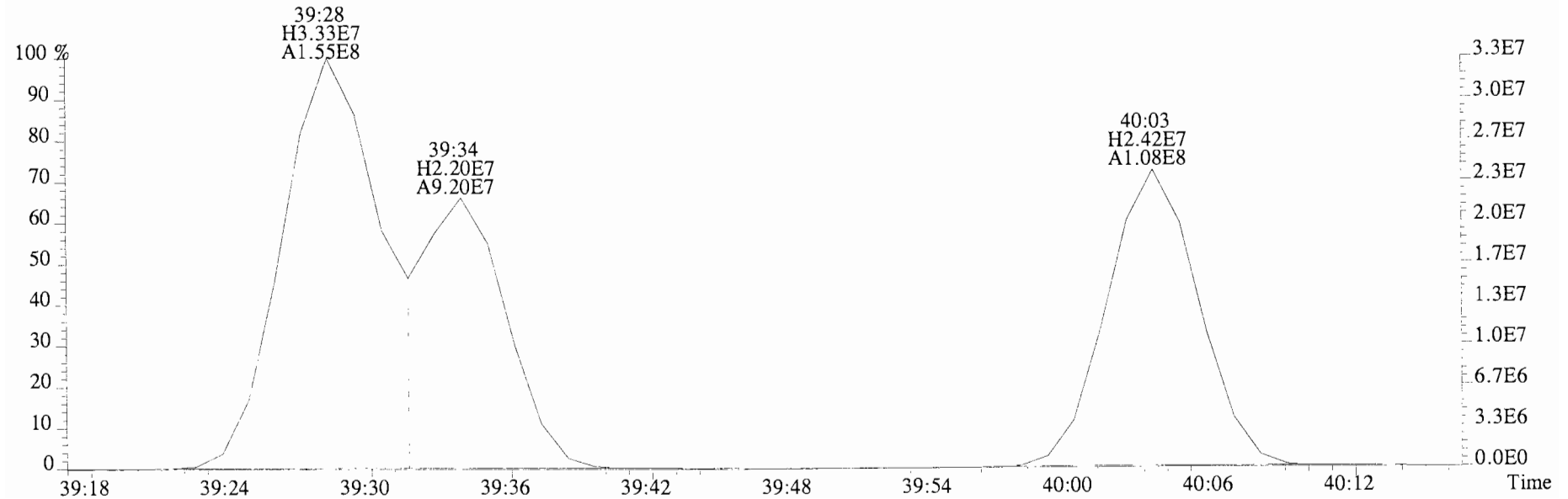
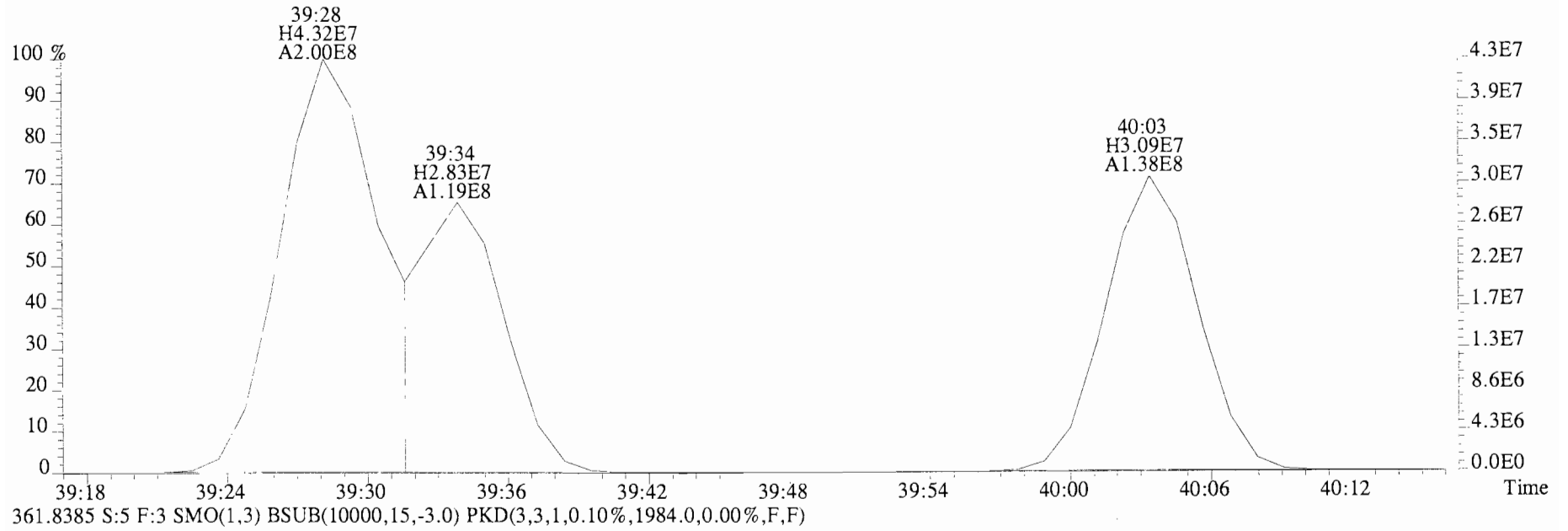
371.8817 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2488.0,0.00%,F,F)



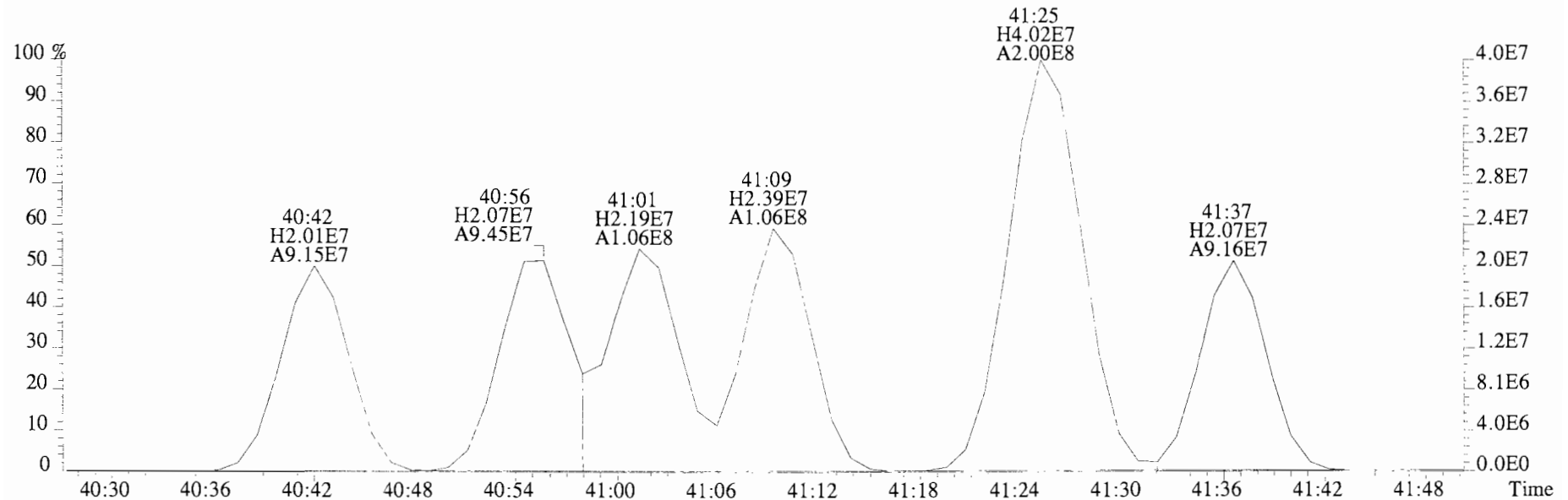
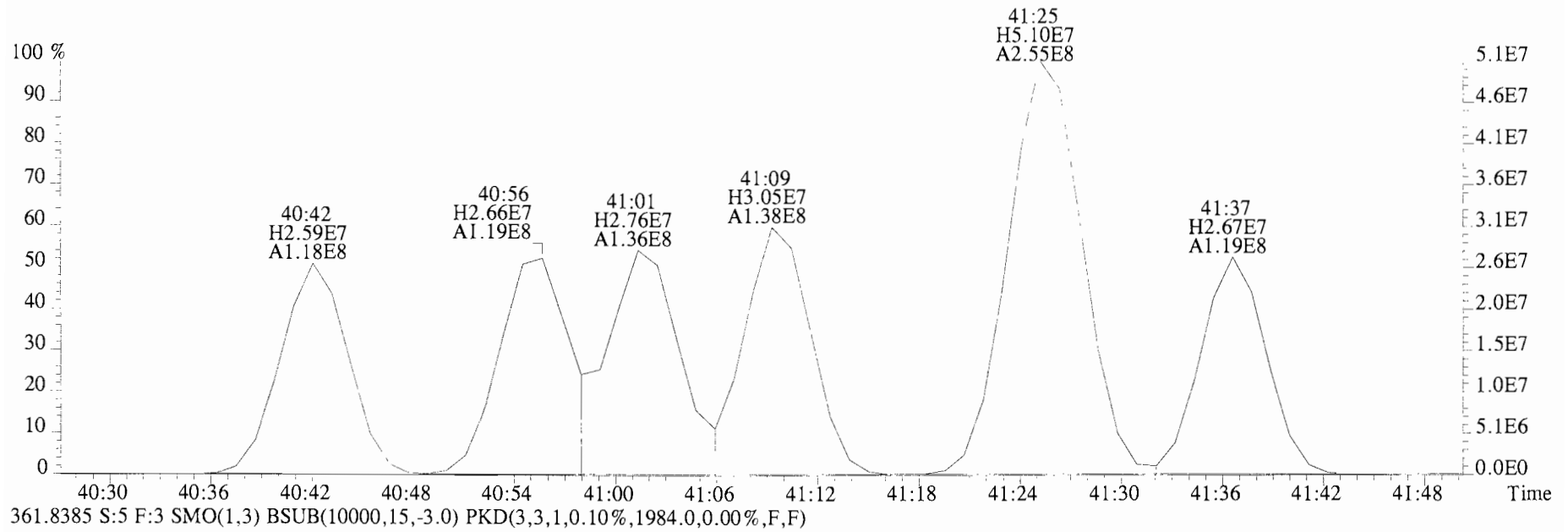
373.8788 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1796.0,0.00%,F,F)



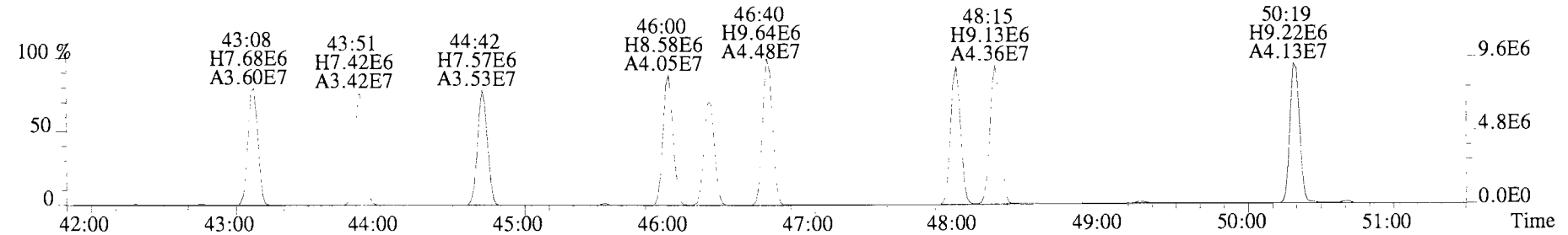
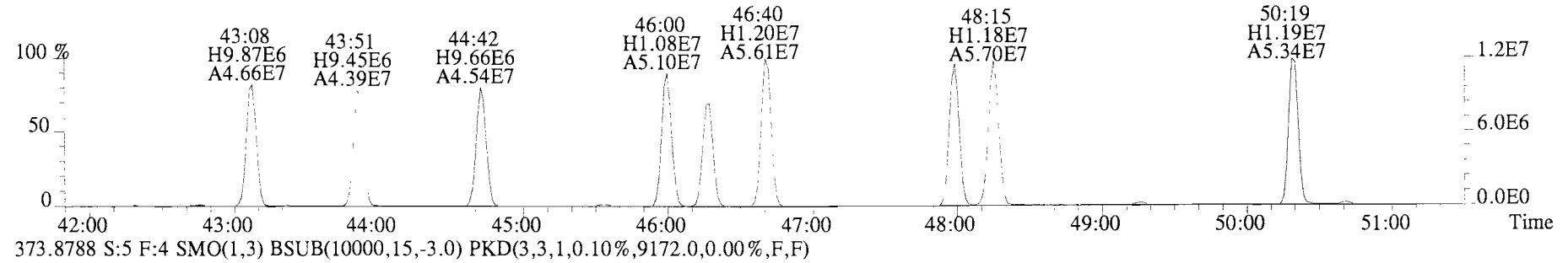
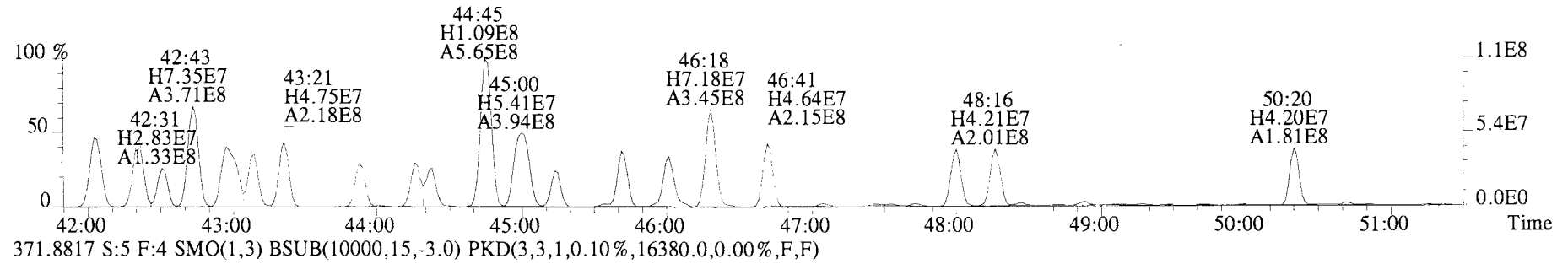
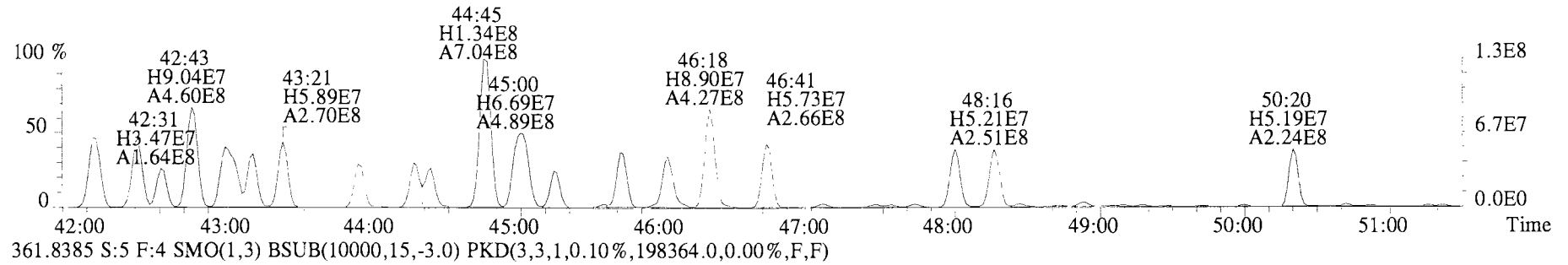
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2300.0,0.00%,F,F)



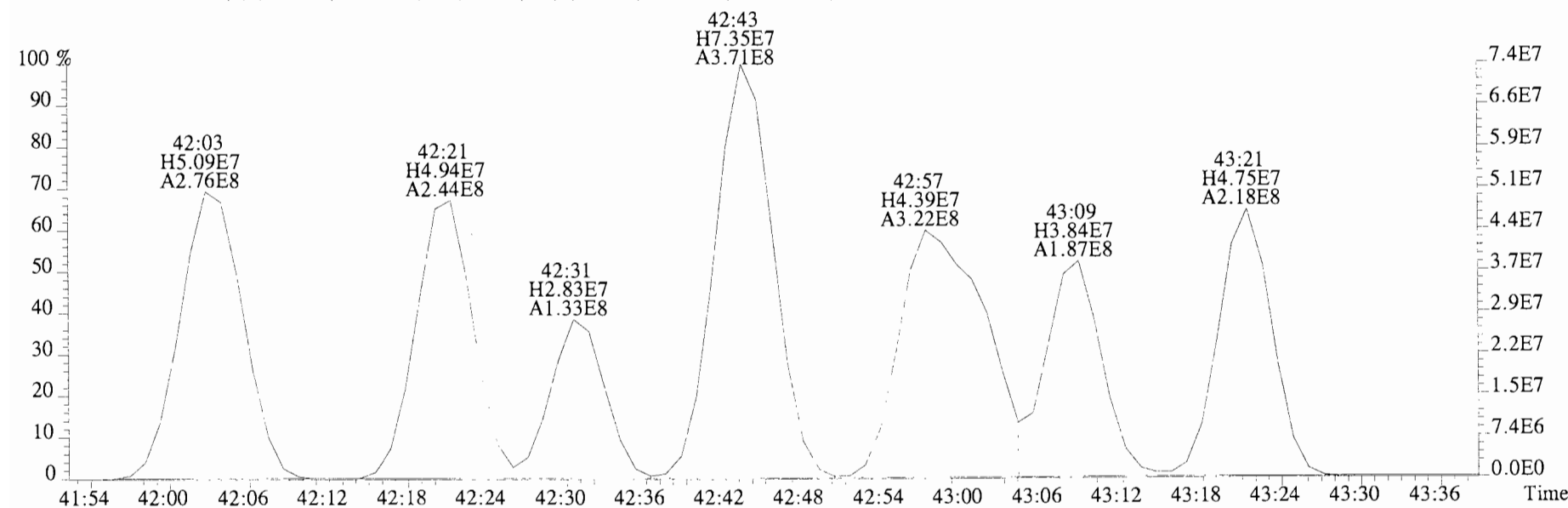
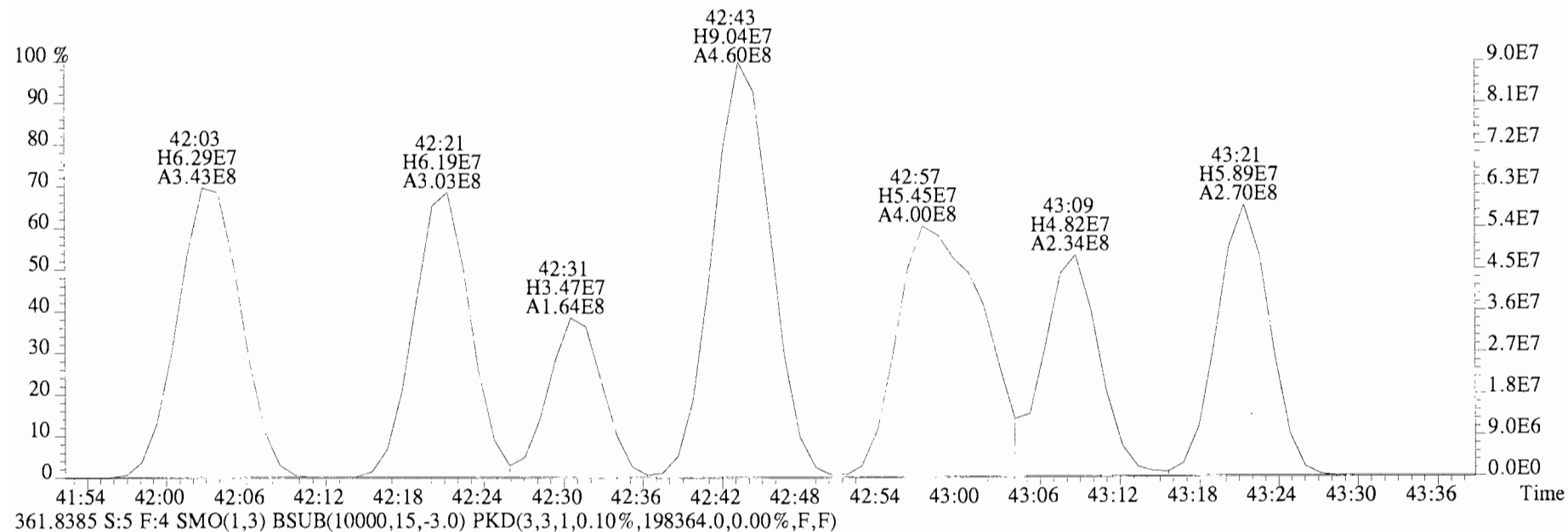
File:140623E2 #1-760 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2300.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,226676.0,0.00%,F,F)

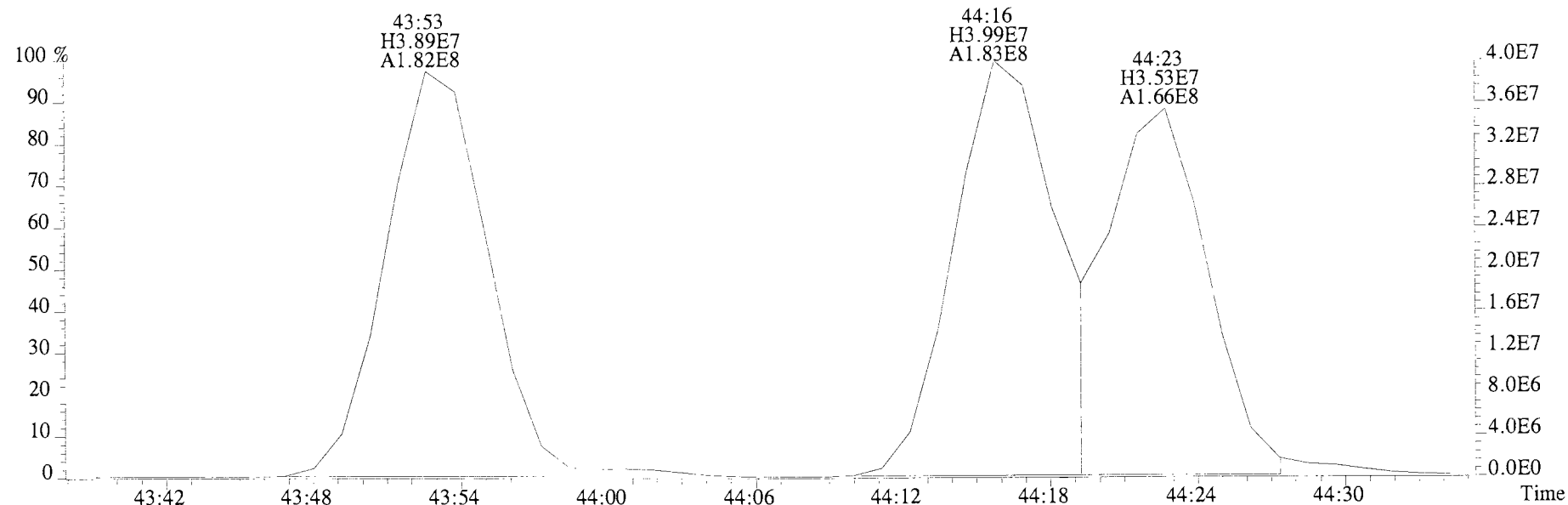


File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,226676.0,0.00%,F,F)

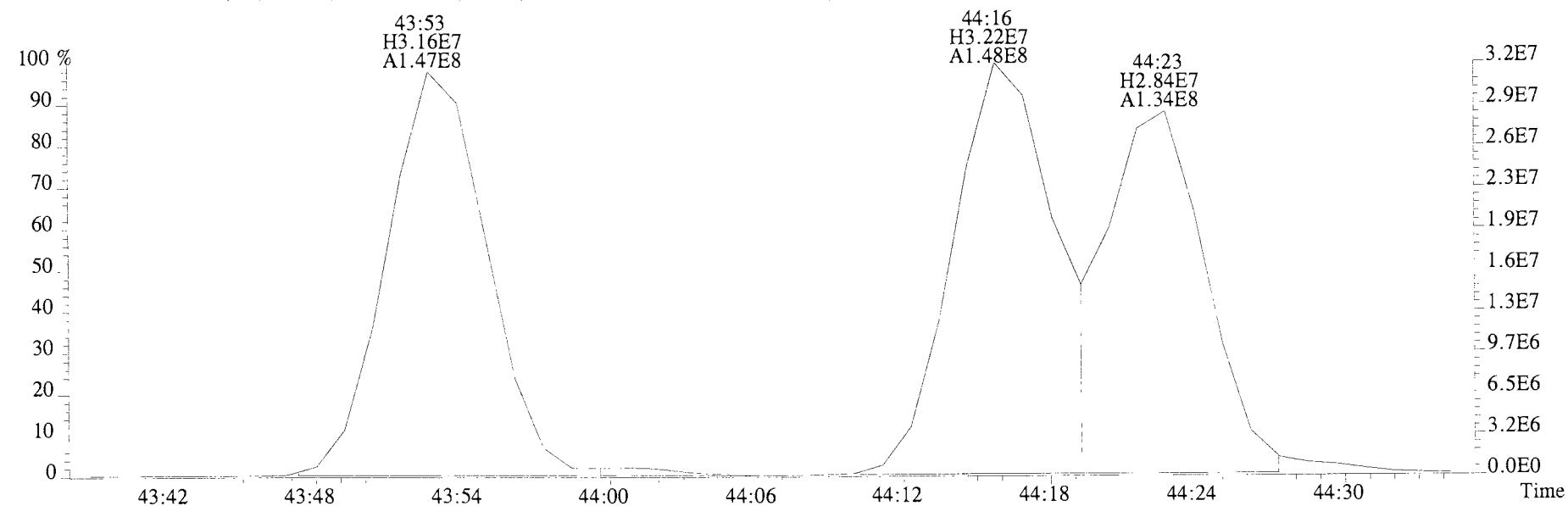




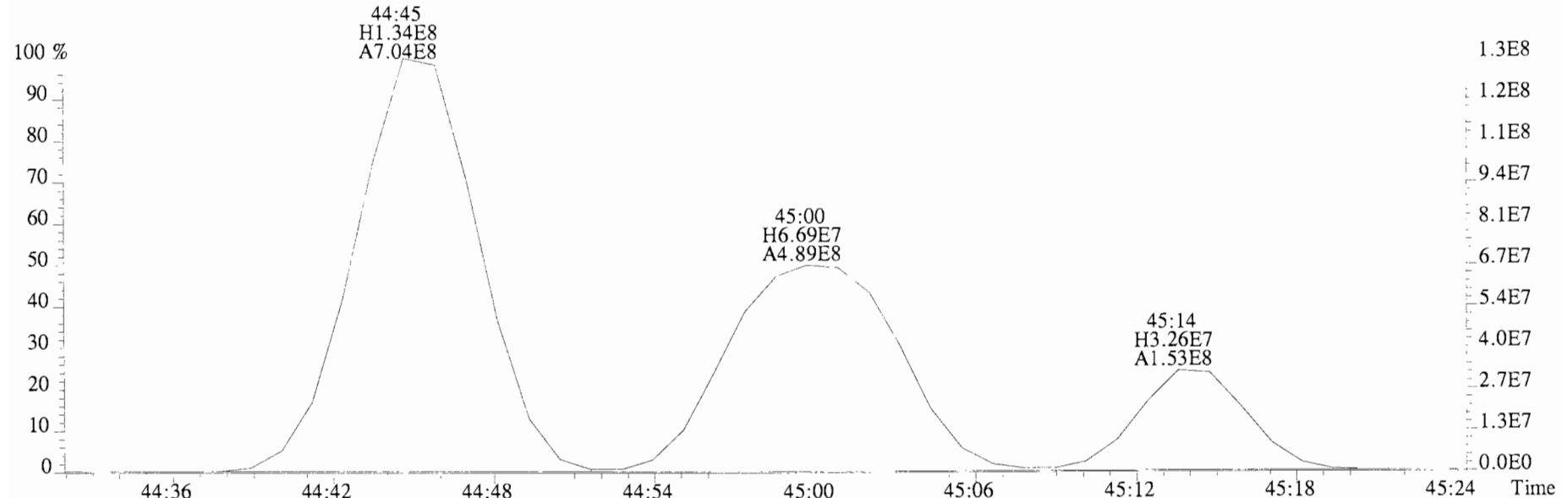
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,226676.0,0.00%,F,F)



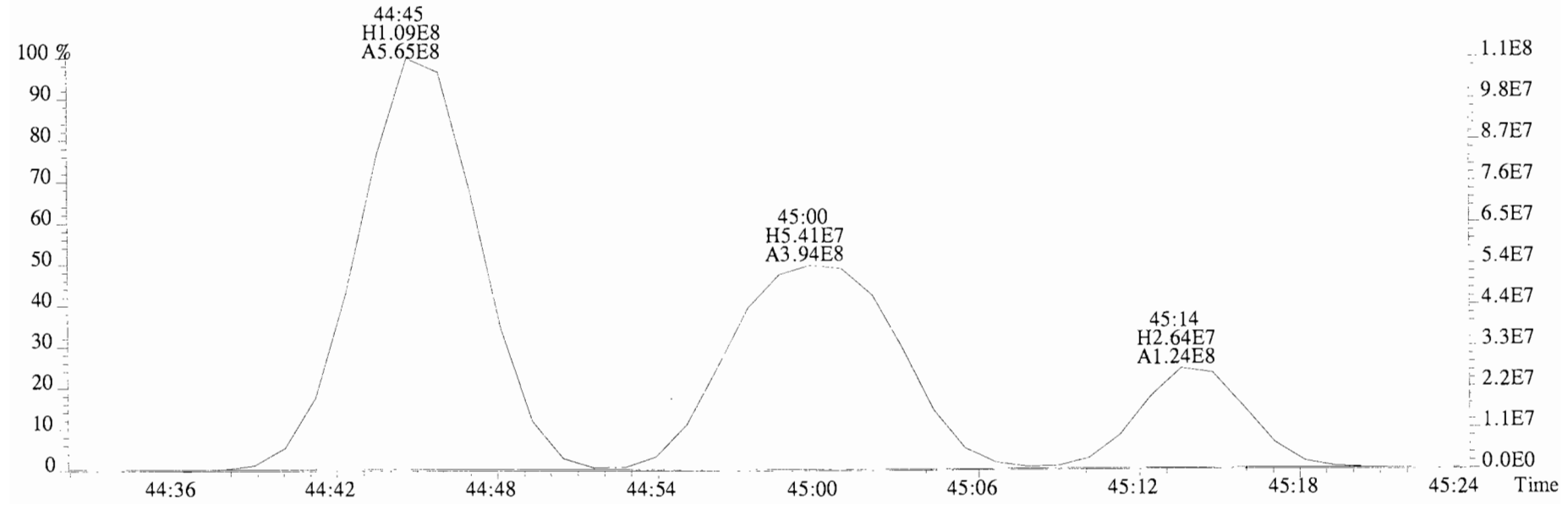
361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,198364.0,0.00%,F,F)



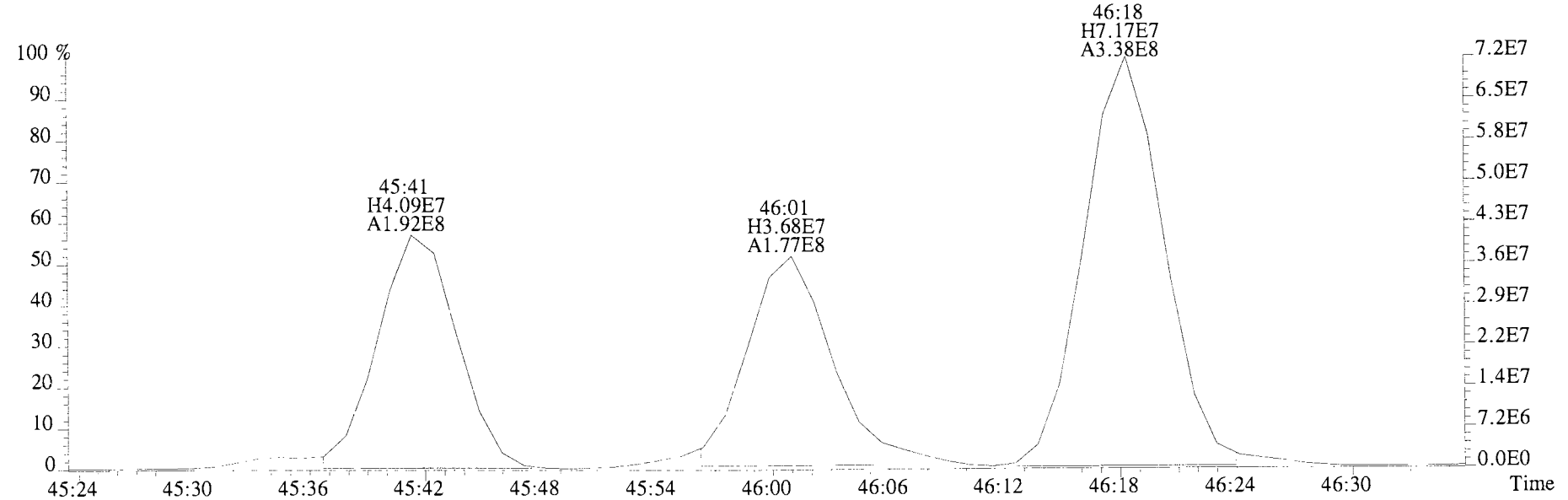
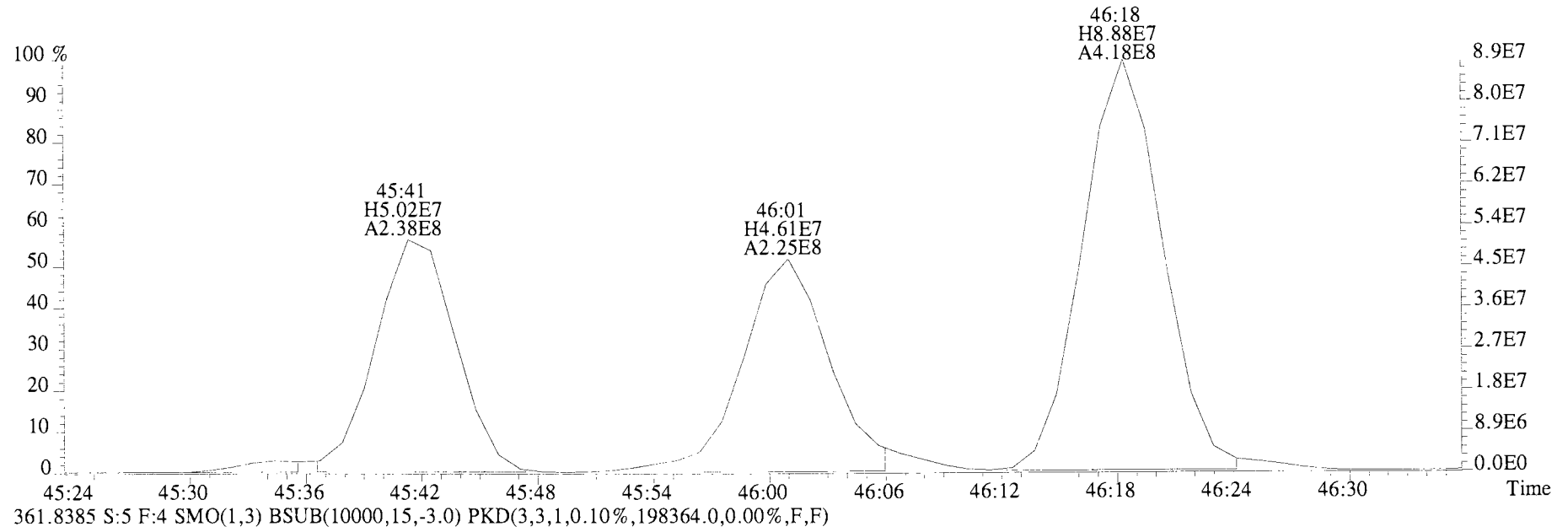
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,226676.0,0.00%,F,F)



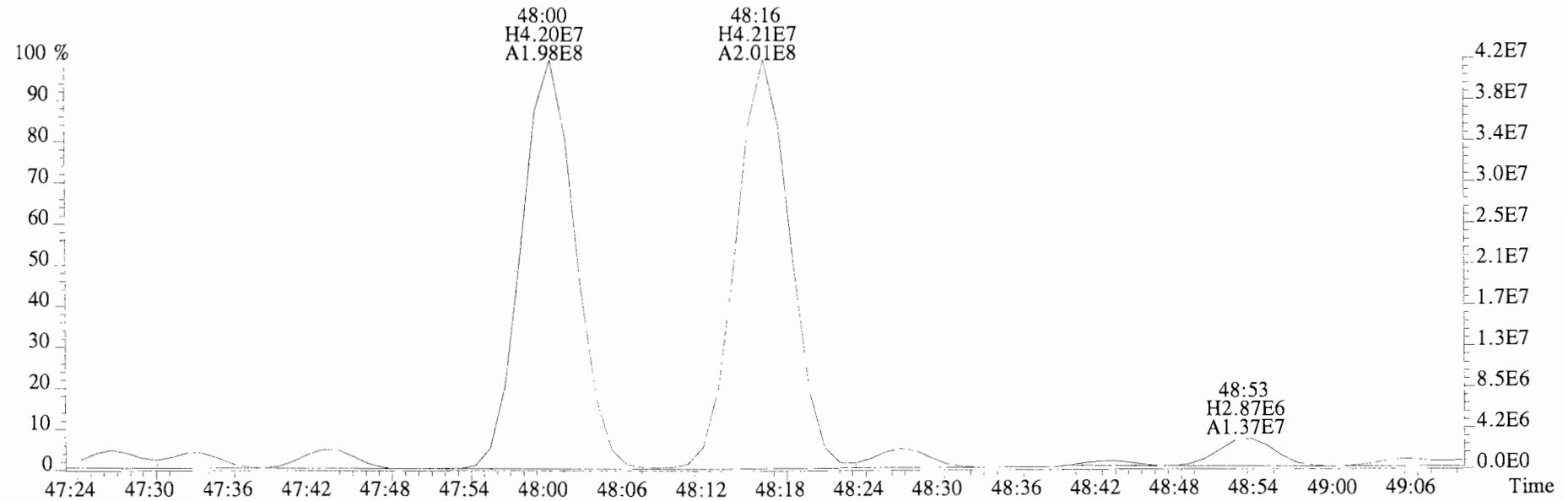
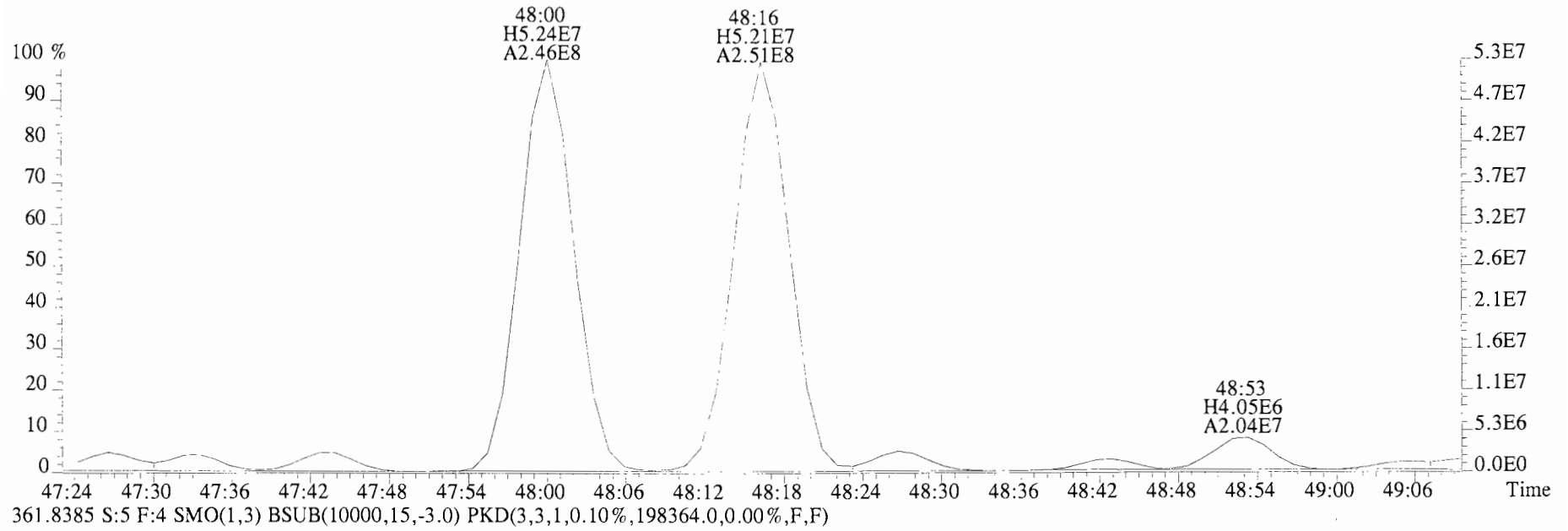
361.8385 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,198364.0,0.00%,F,F)



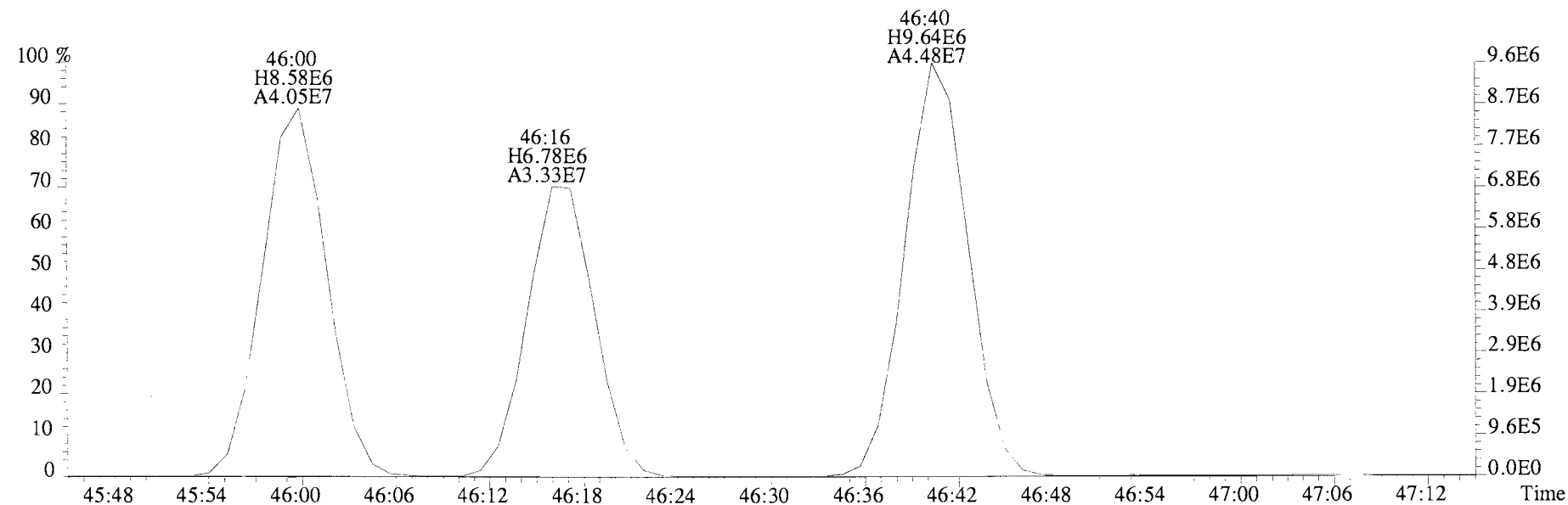
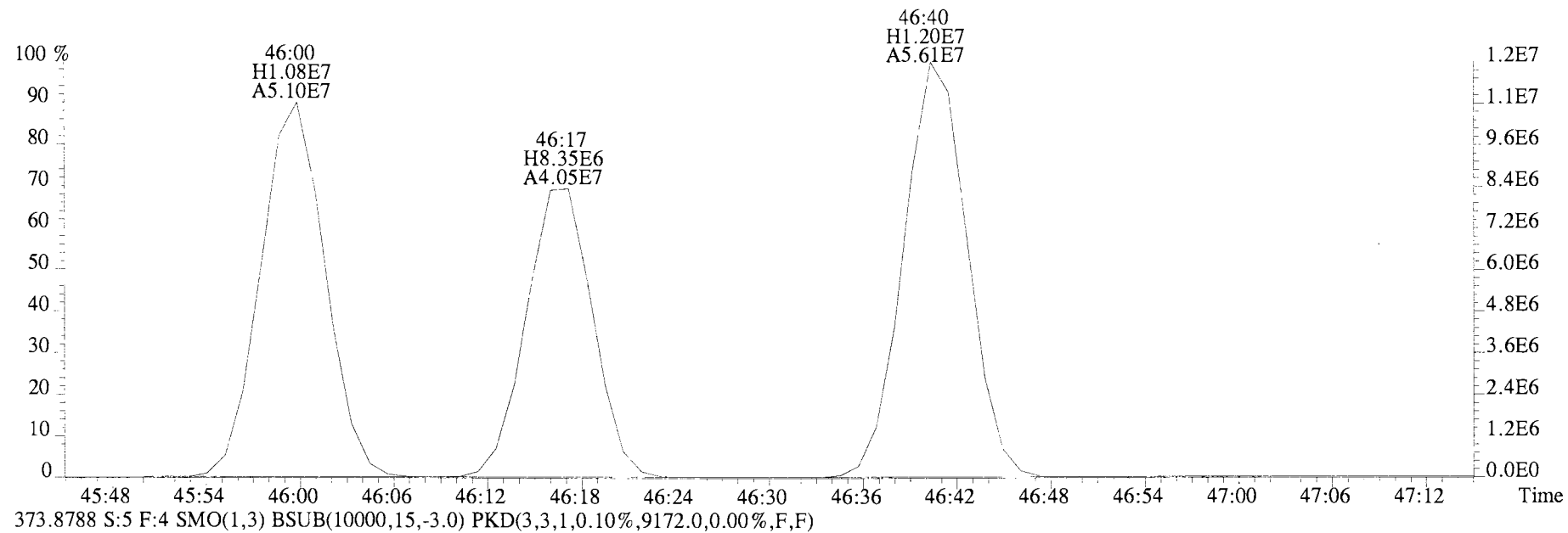
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,226676.0,0.00%,F,F)



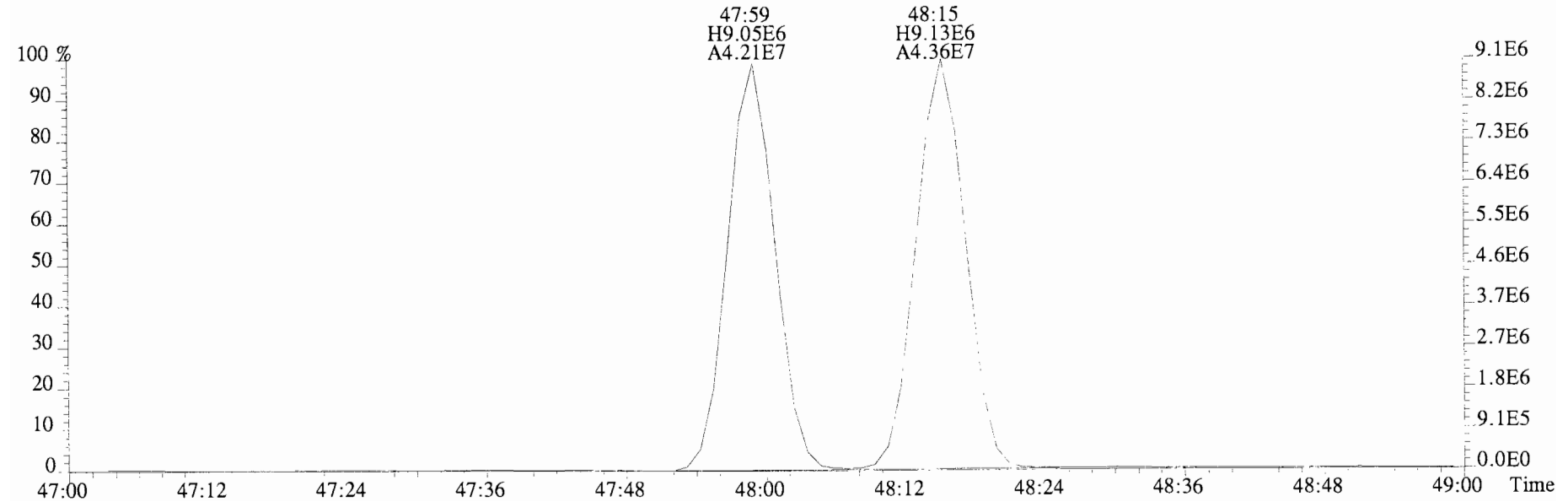
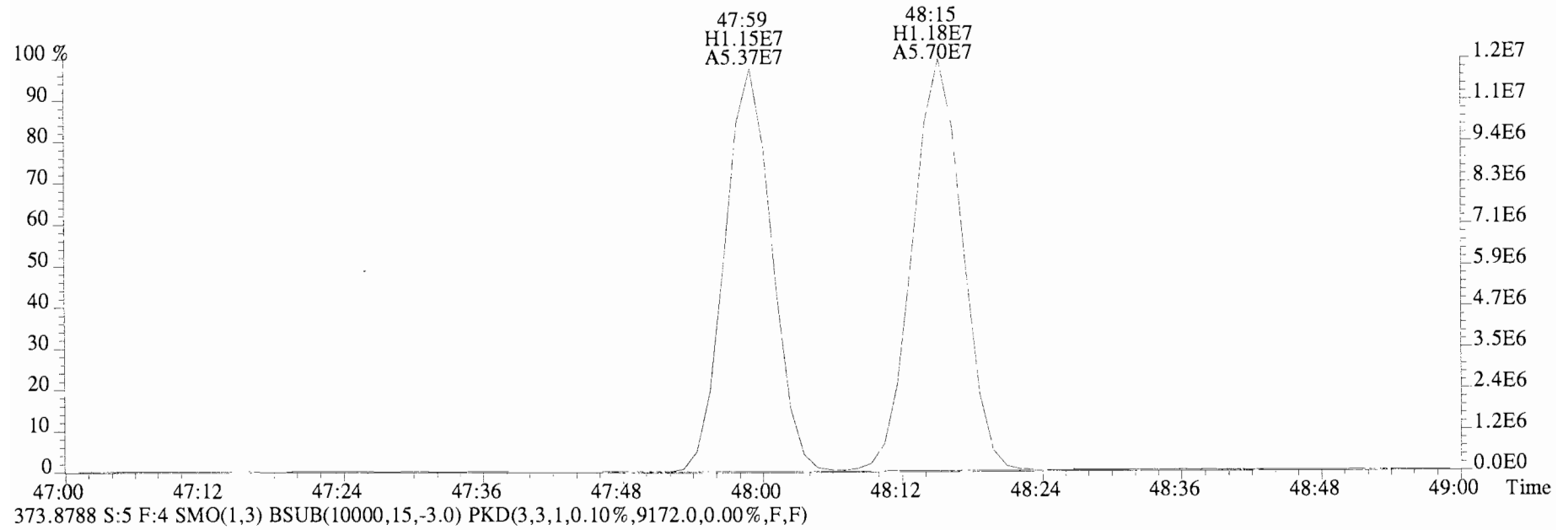
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,226676.0,0.00%,F,F)



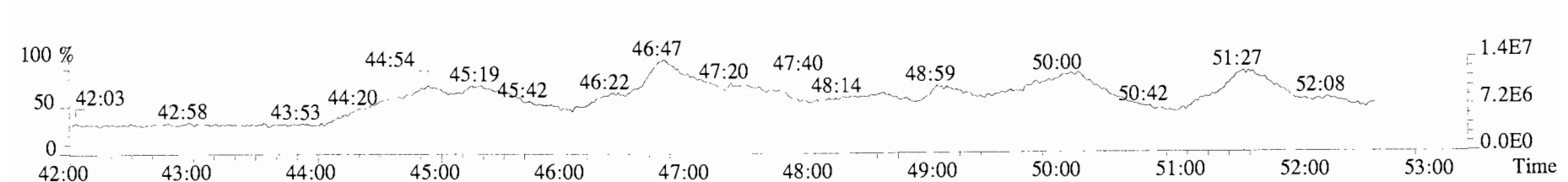
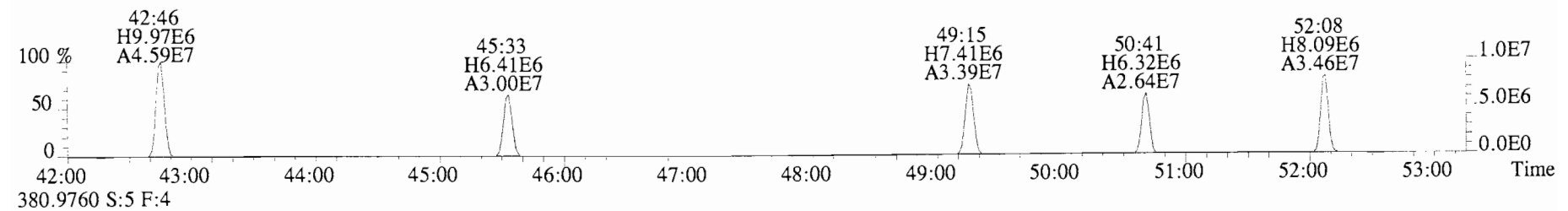
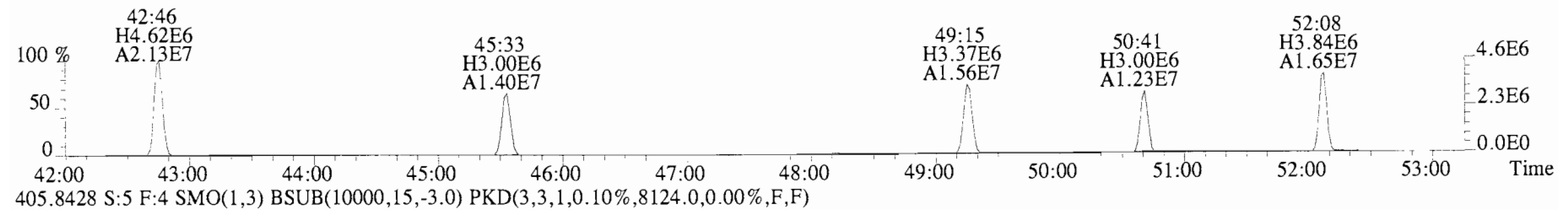
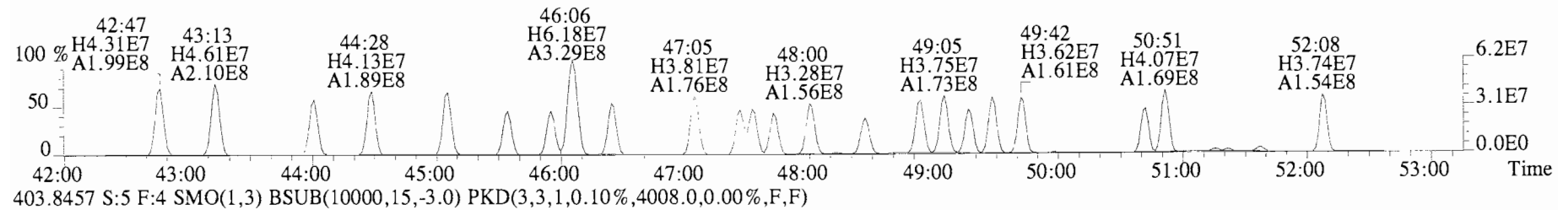
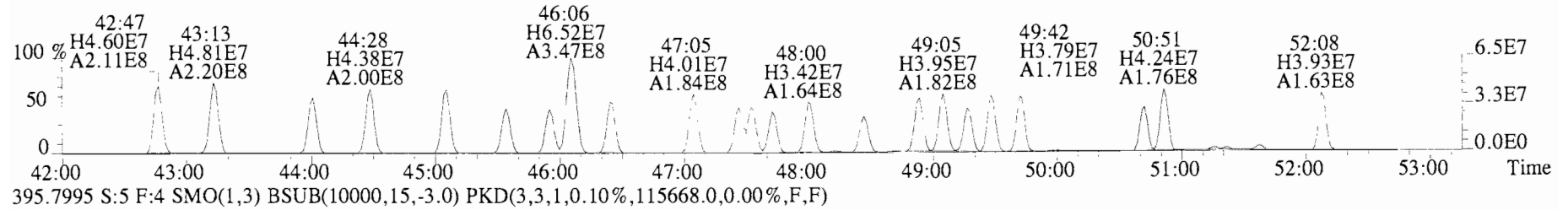
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16380.0,0.00%,F,F)



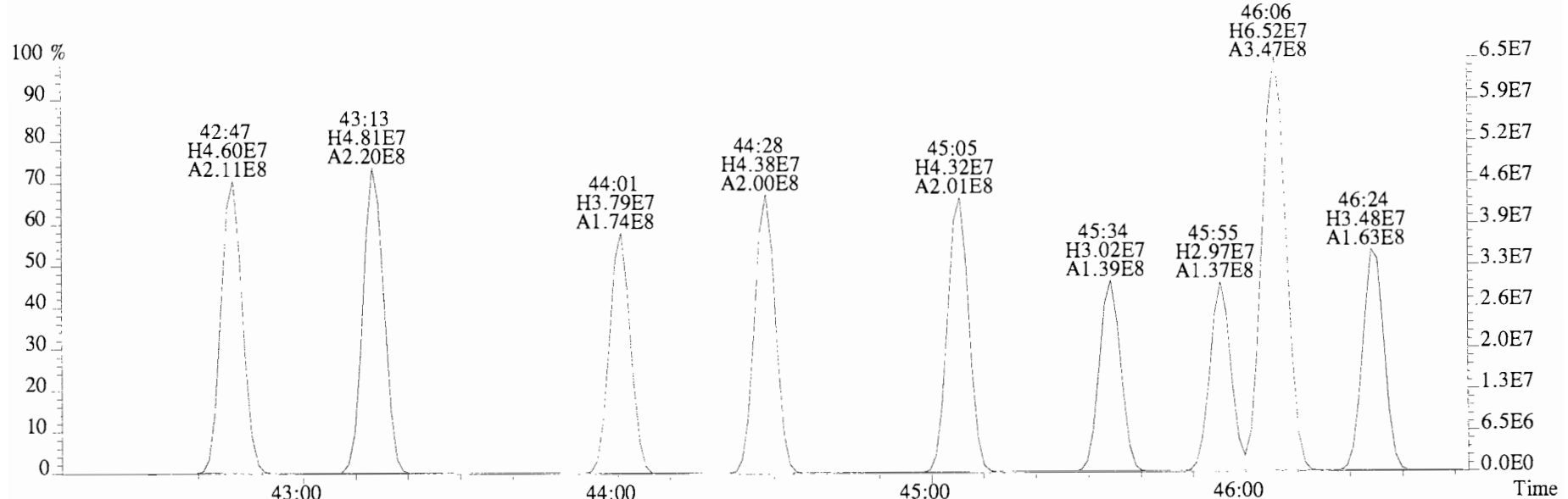
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16380.0,0.00%,F,F)



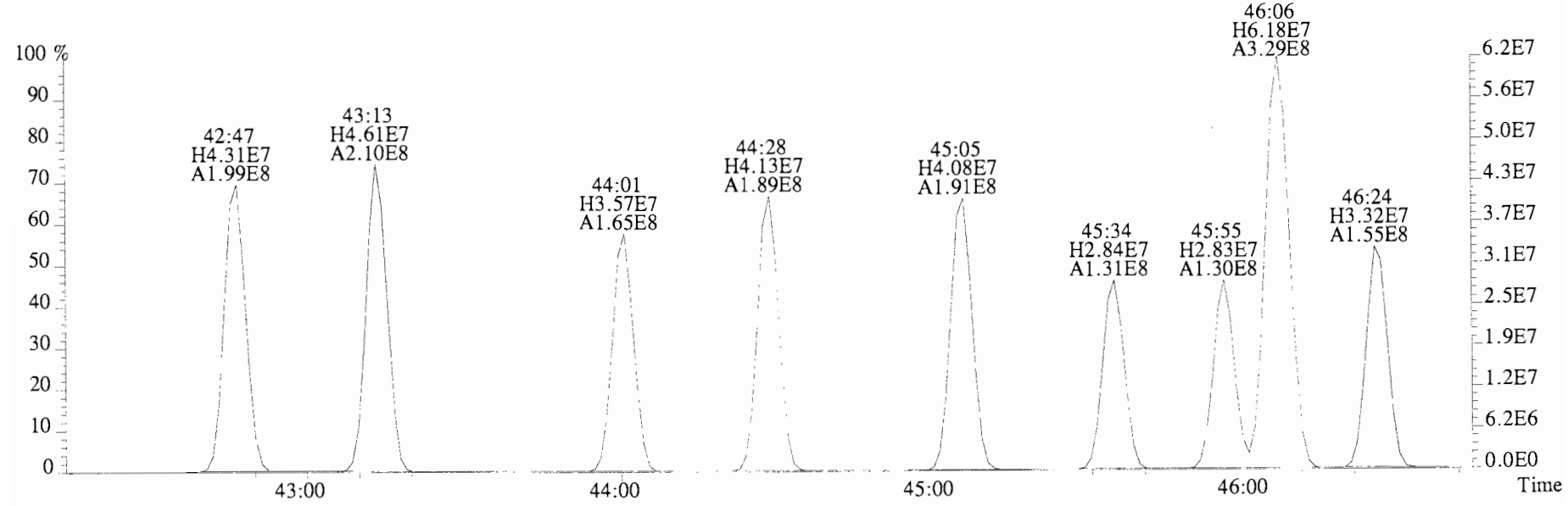
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,148076.0,0.00%,F,F)



File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,148076.0,0.00%,F,F)

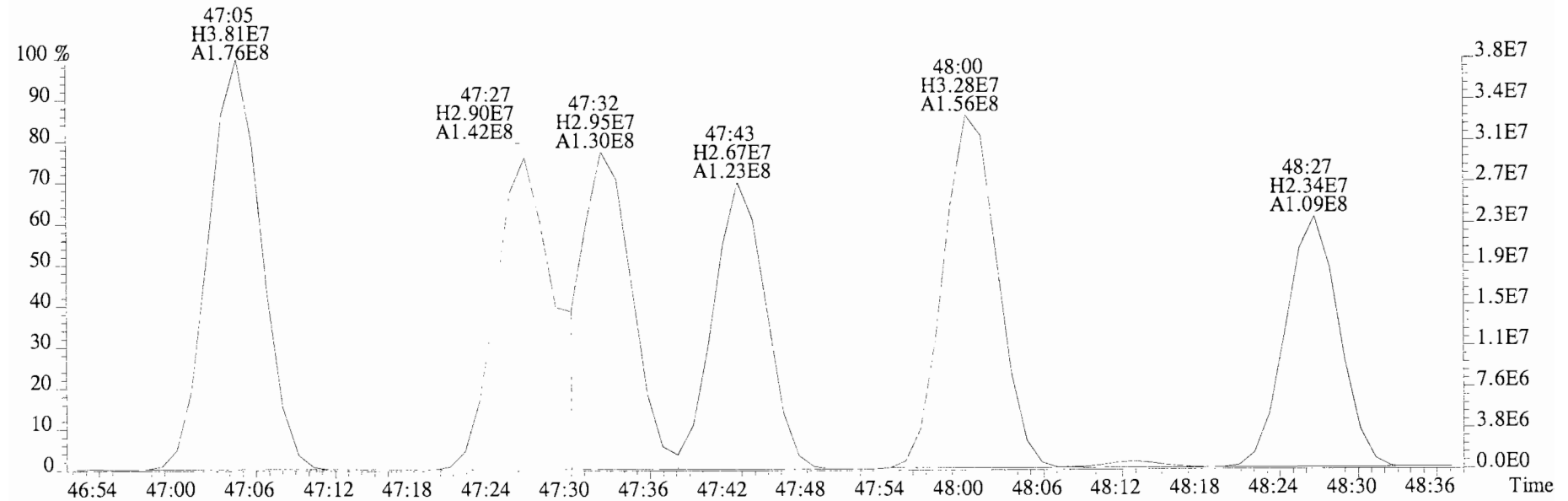
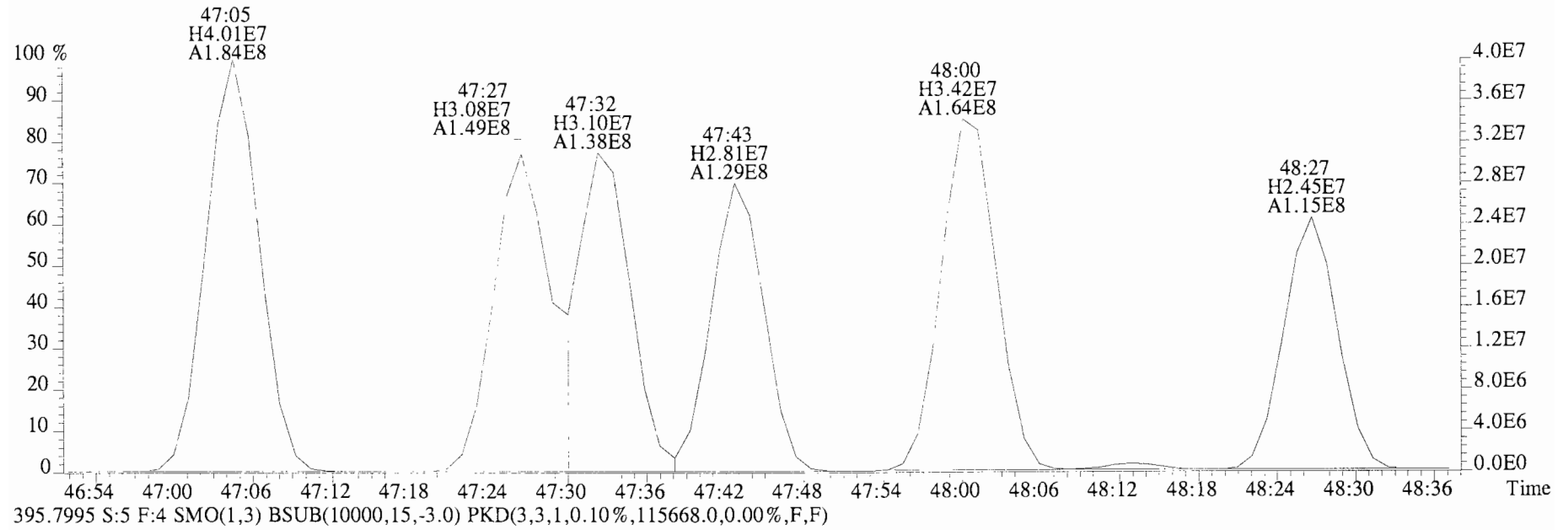


395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,115668.0,0.00%,F,F)

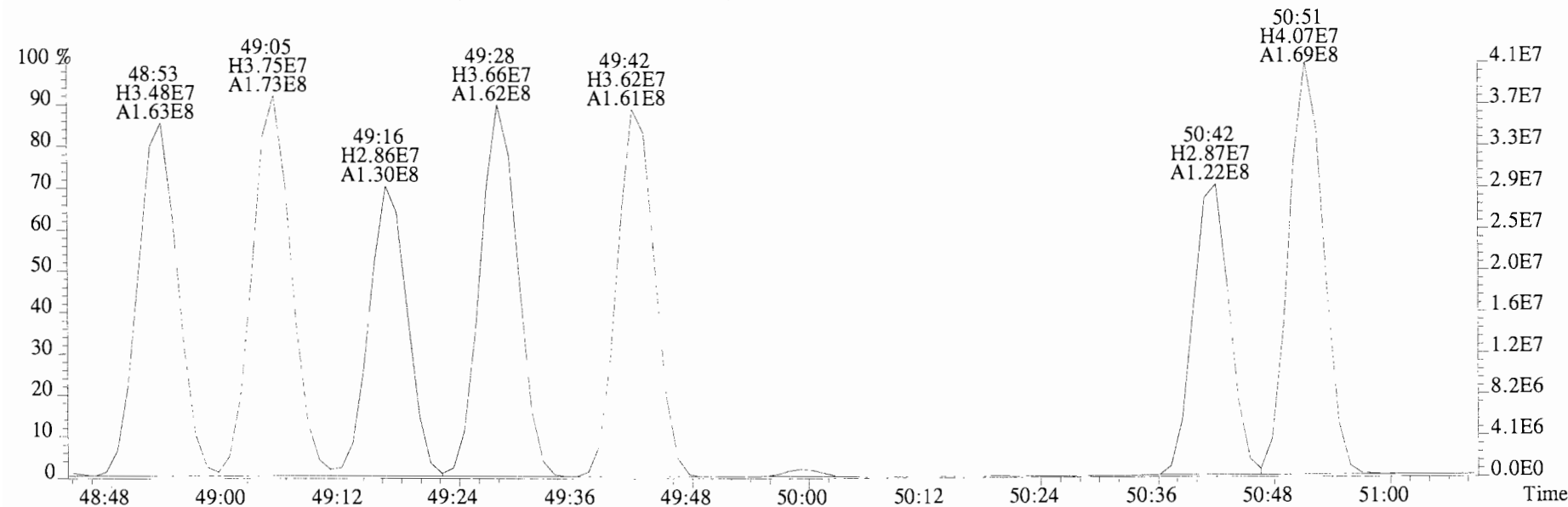
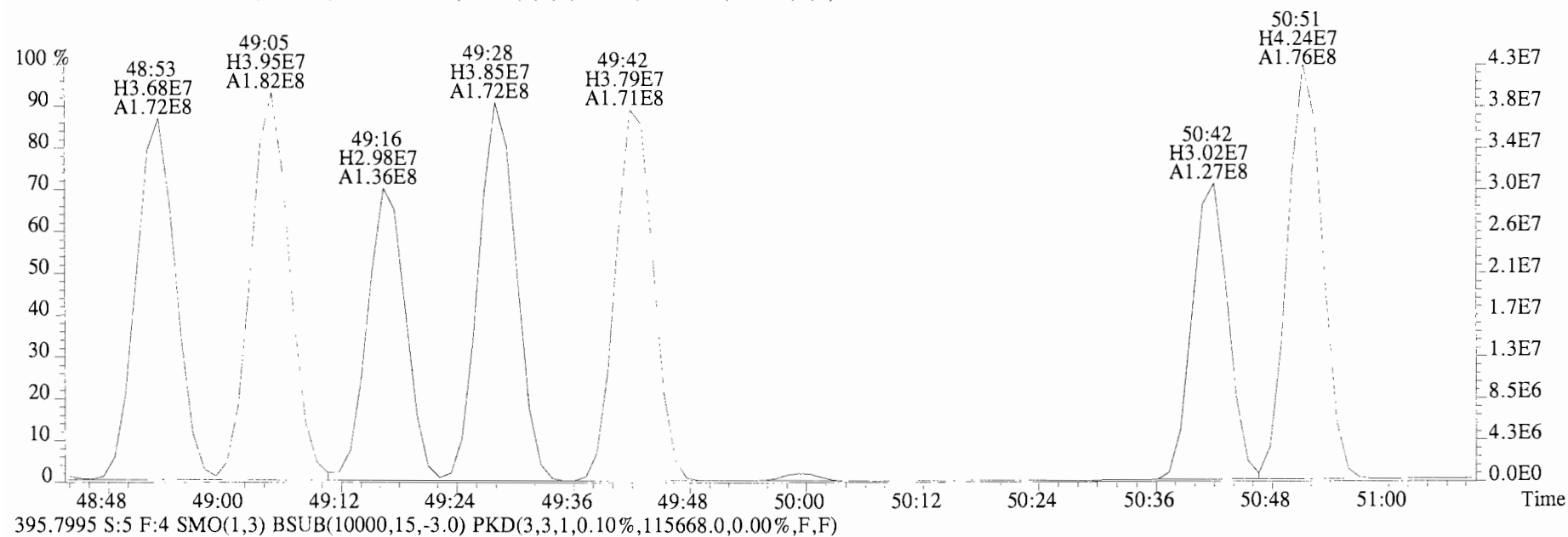




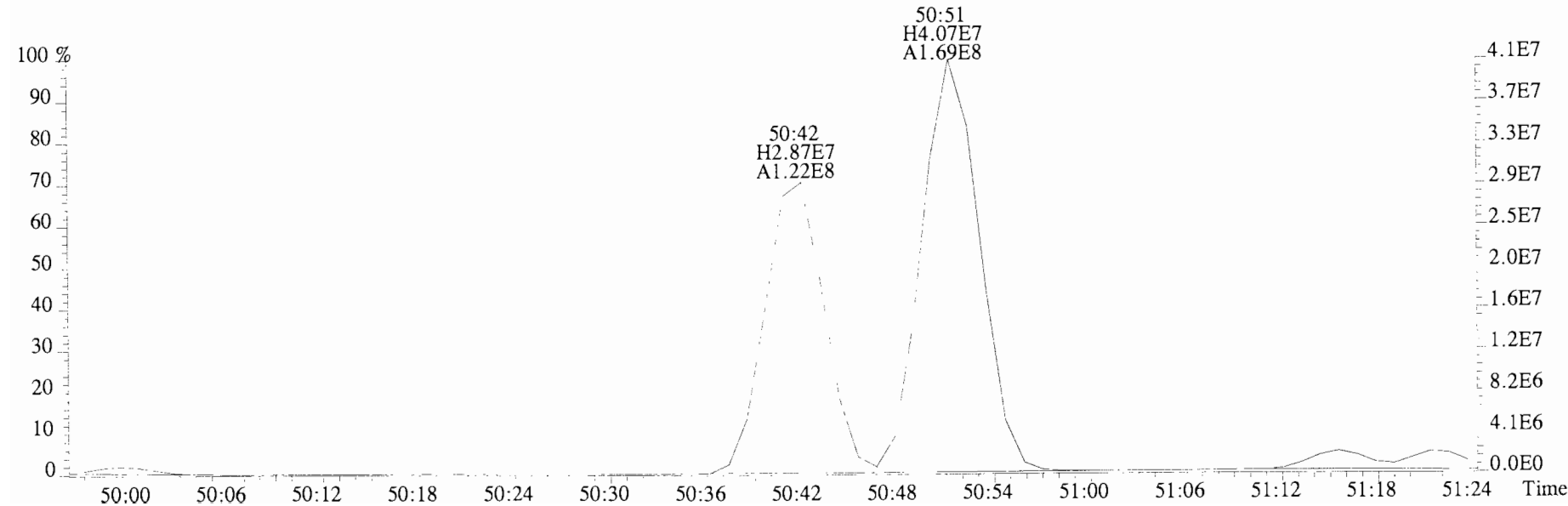
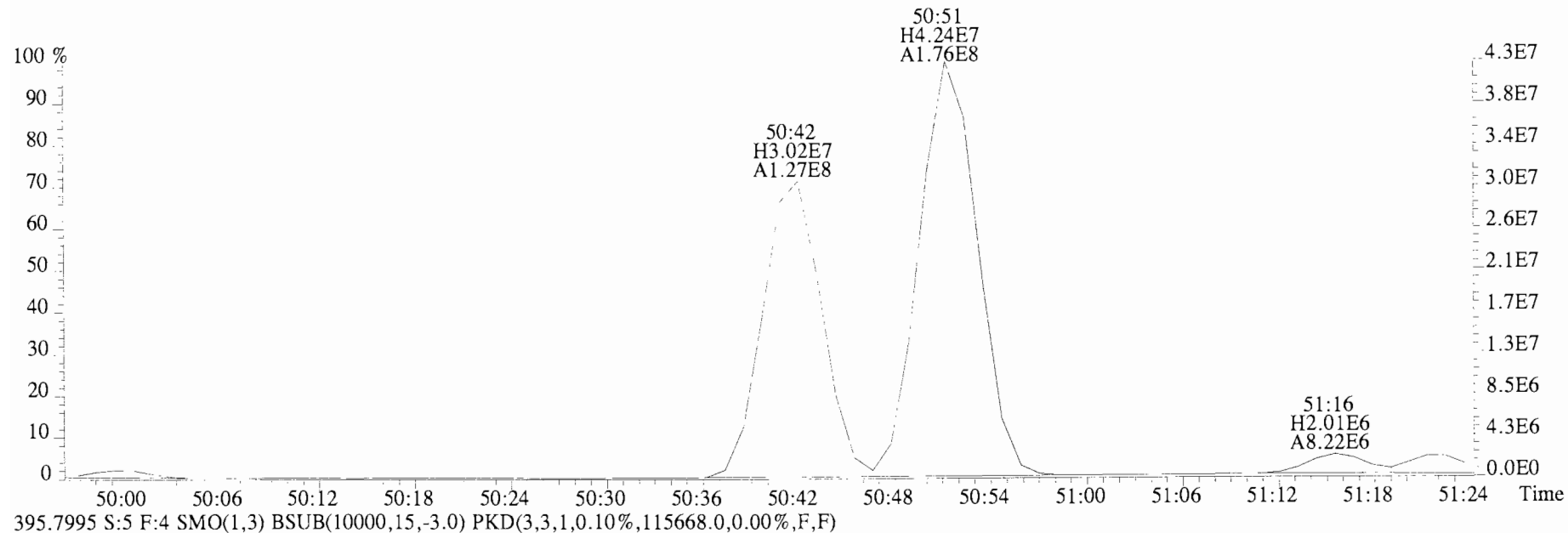
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,148076.0,0.00%,F,F)



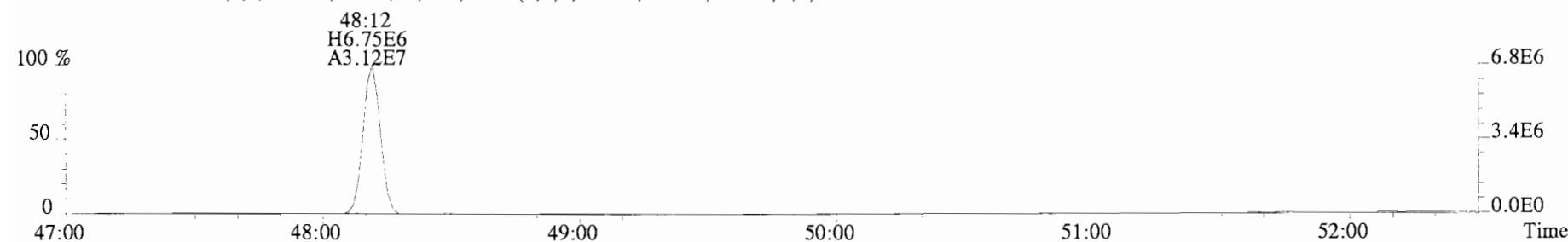
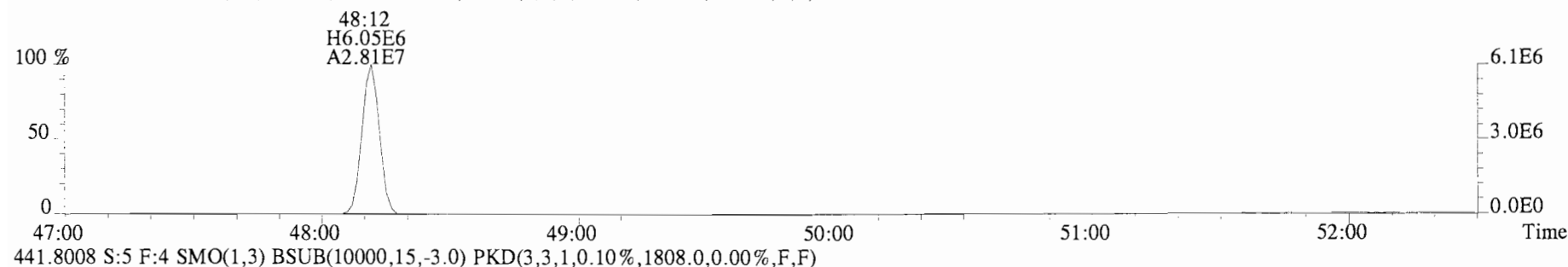
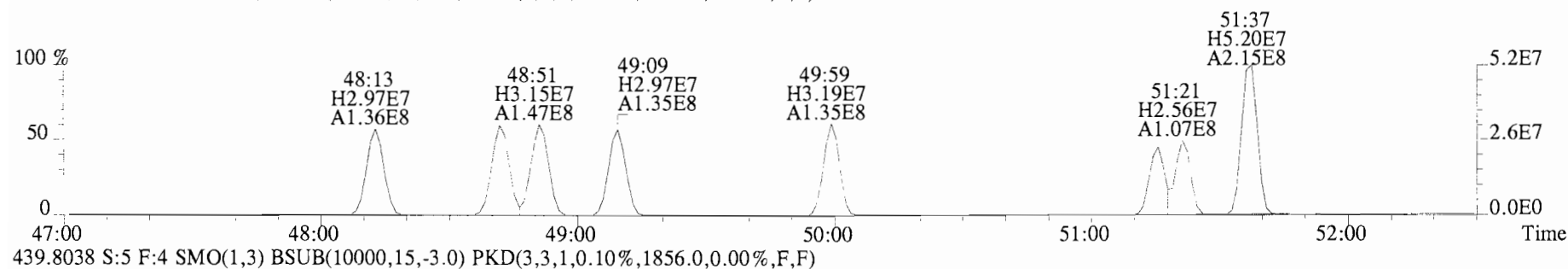
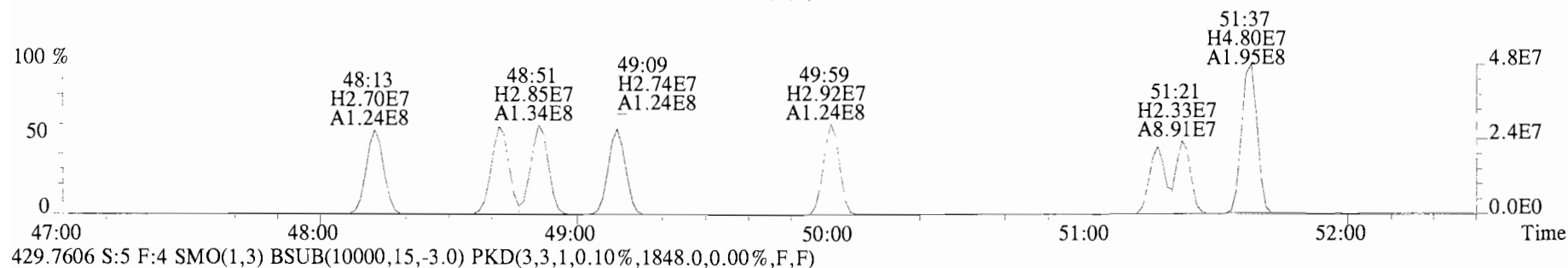
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,148076.0,0.00%,F,F)



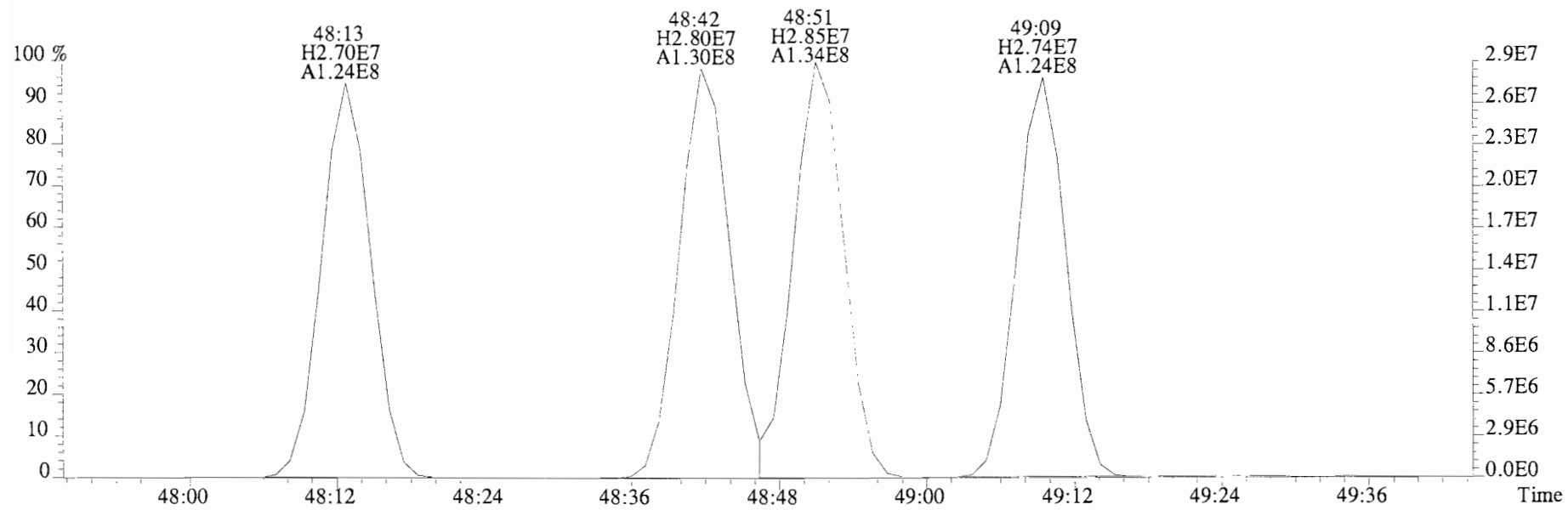
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,148076.0,0.00%,F,F)



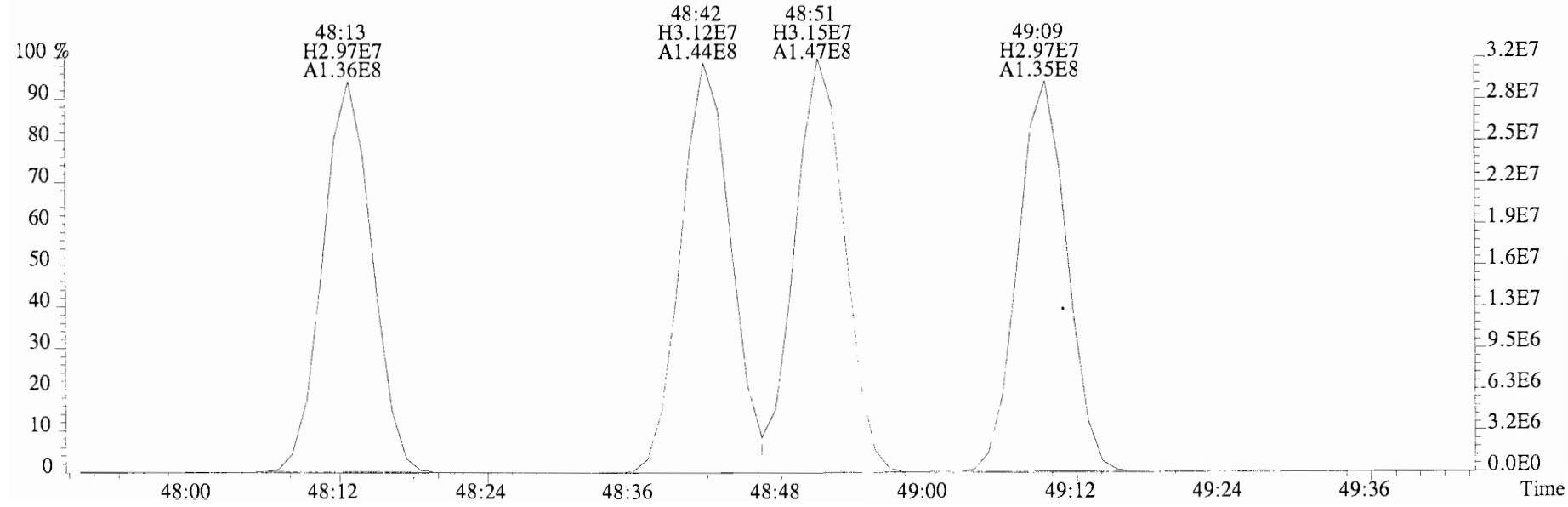
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1548.0,0.00%,F,F)



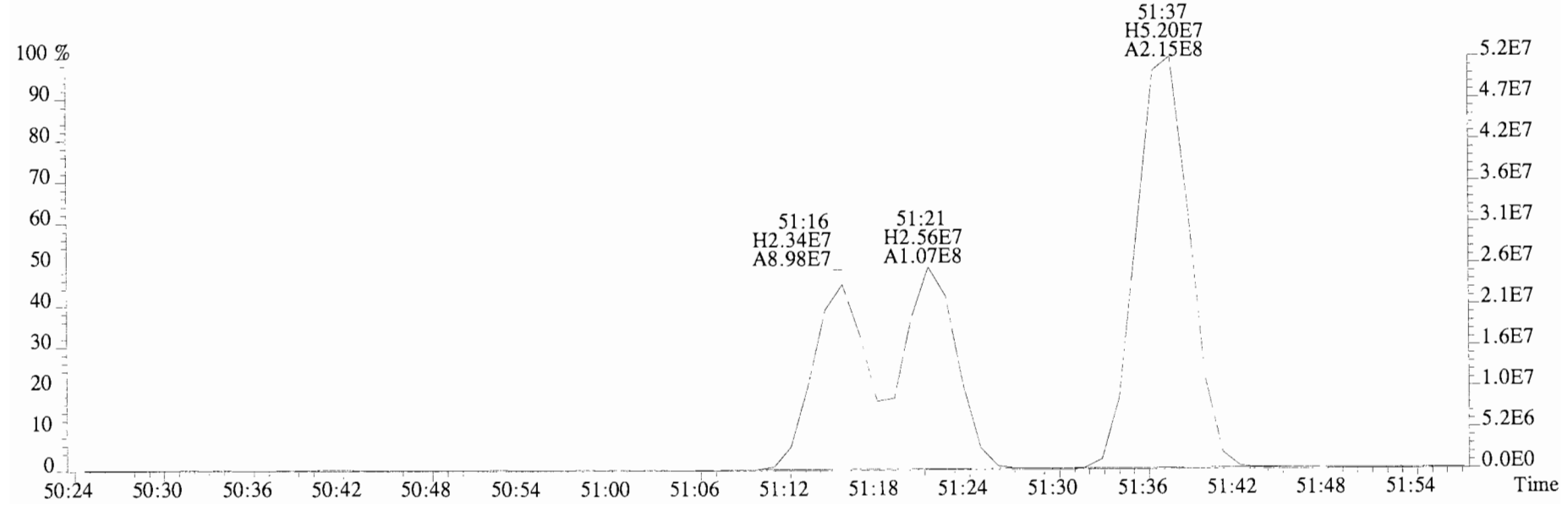
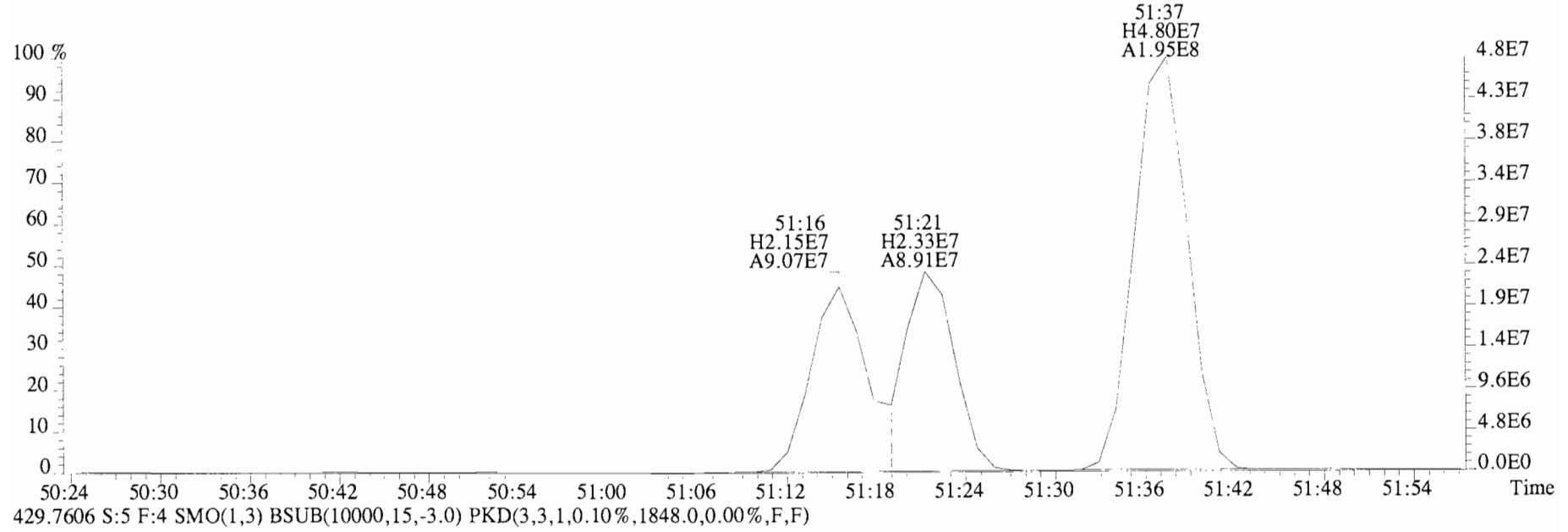
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1548.0,0.00%,F,F)



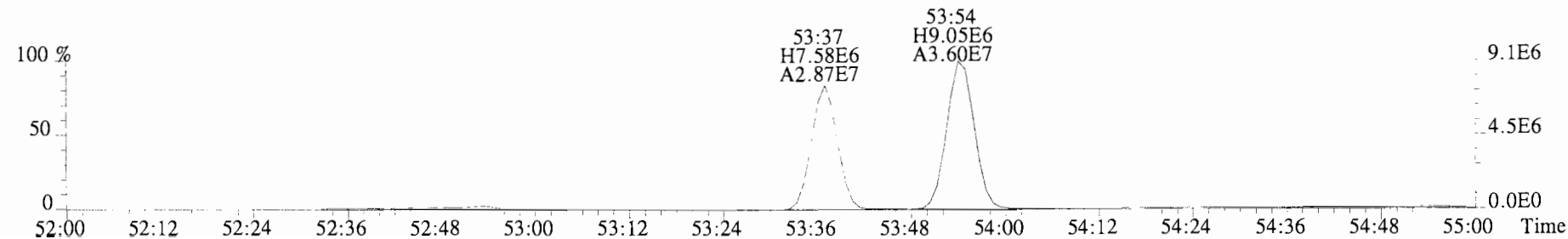
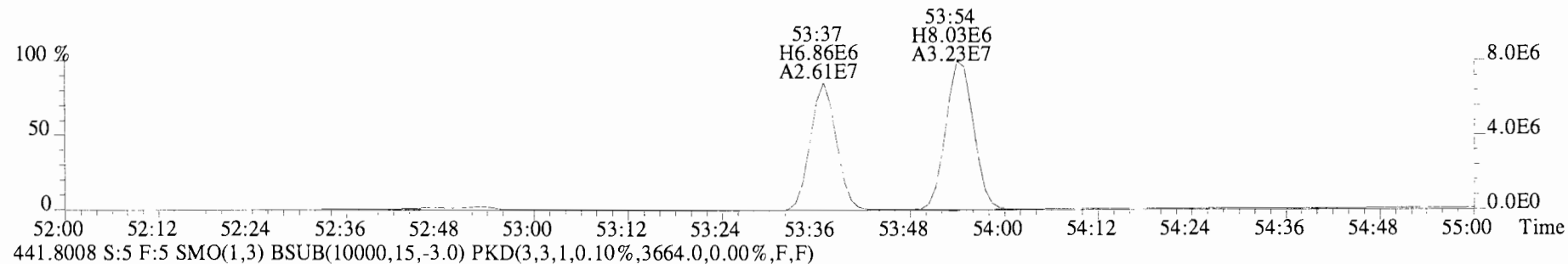
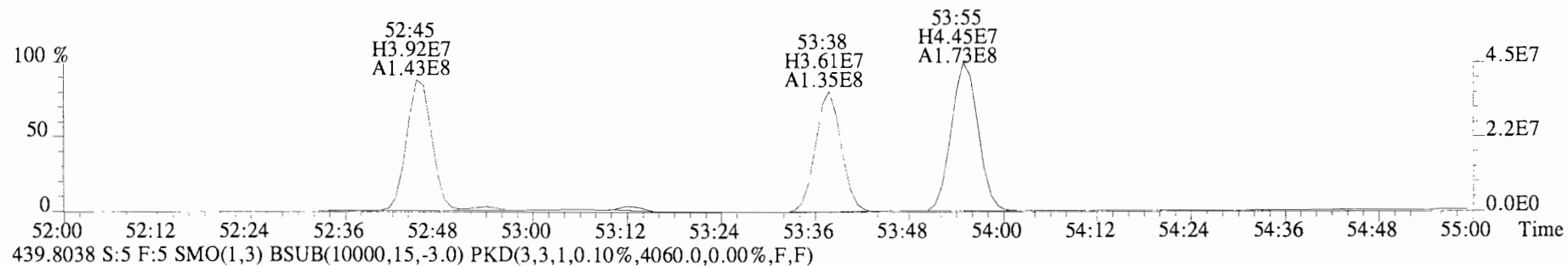
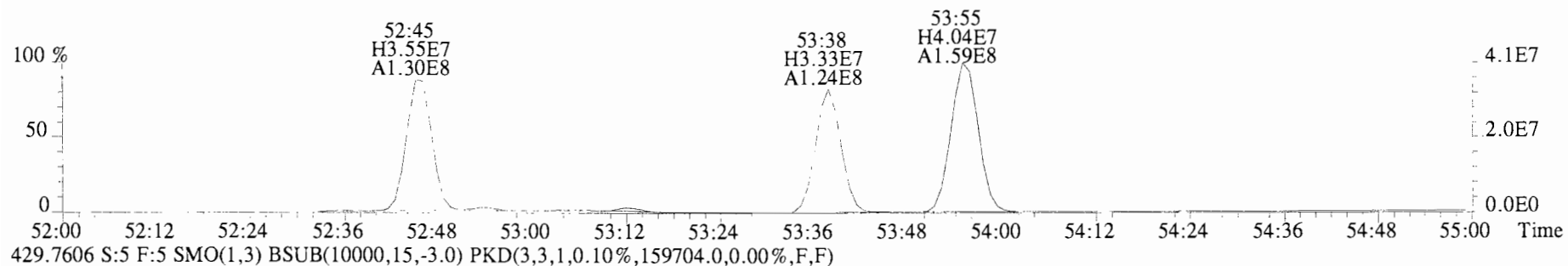
429.7606 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



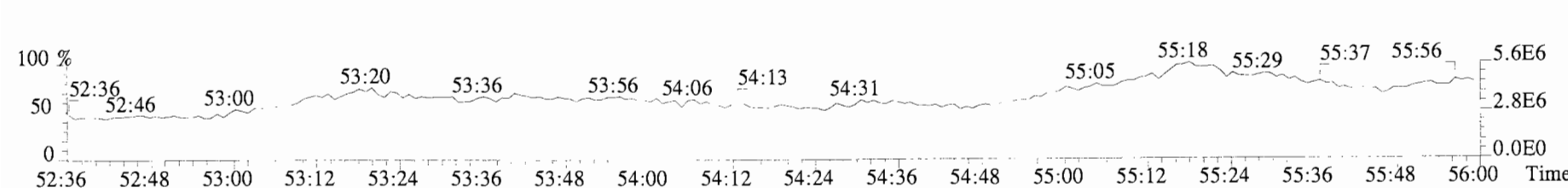
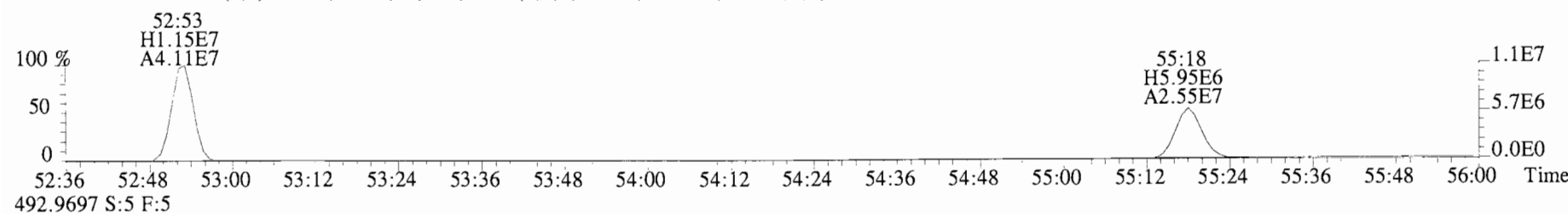
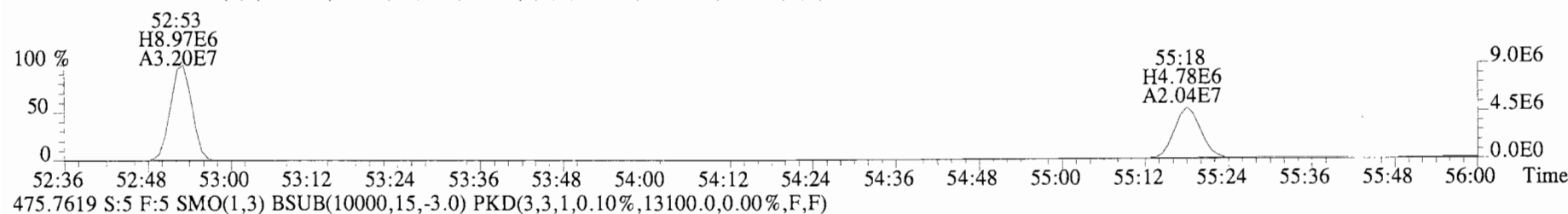
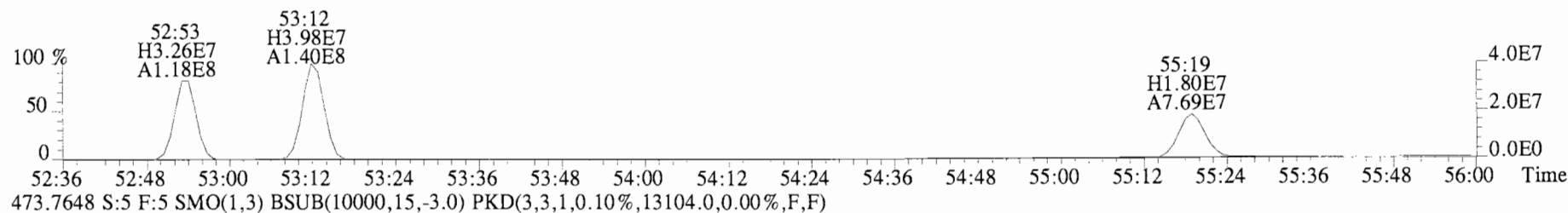
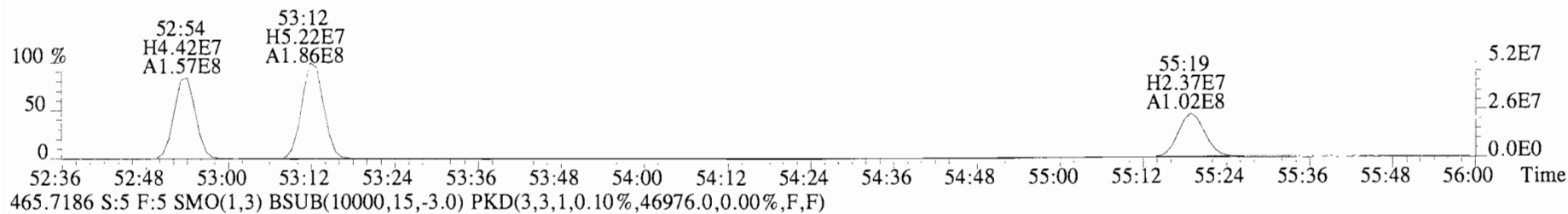
File:140623E2 #1-553 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1548.0,0.00%,F,F)



File:140623E2 #1-435 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
429.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,168544.0,0.00%,F,F)

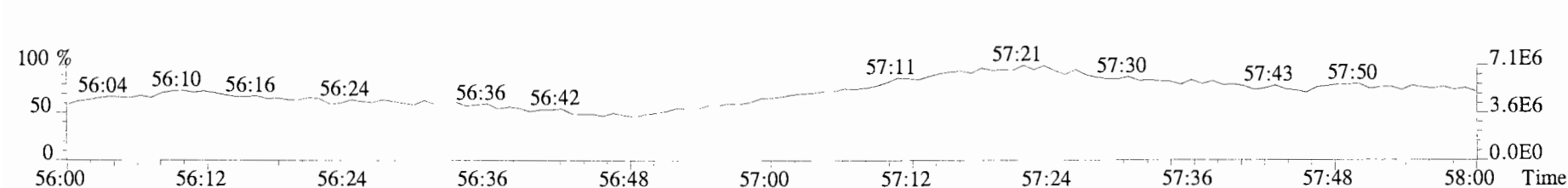
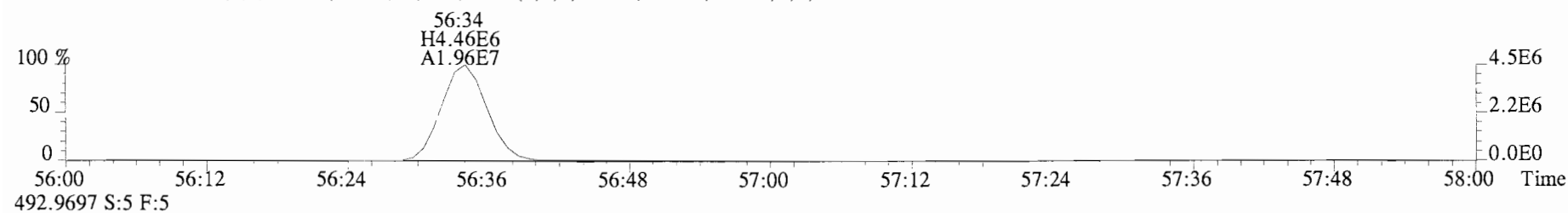
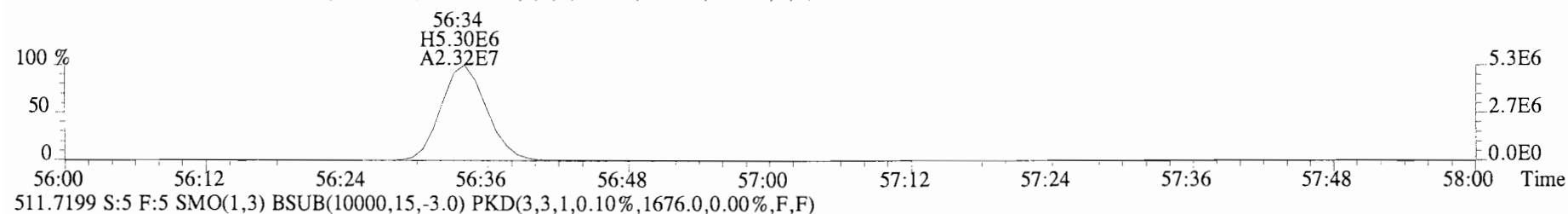
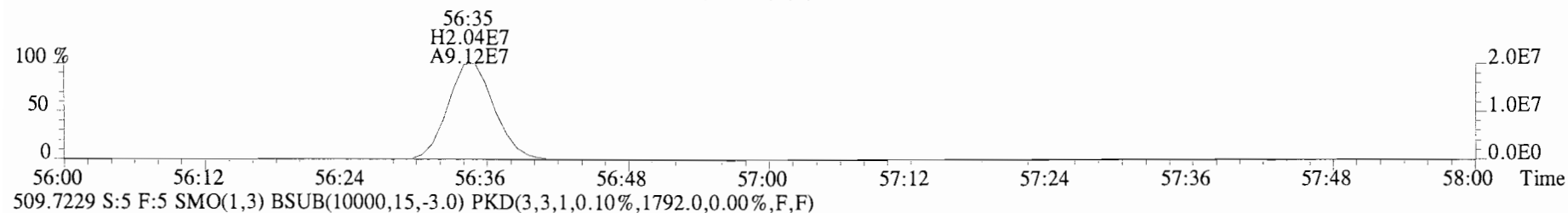
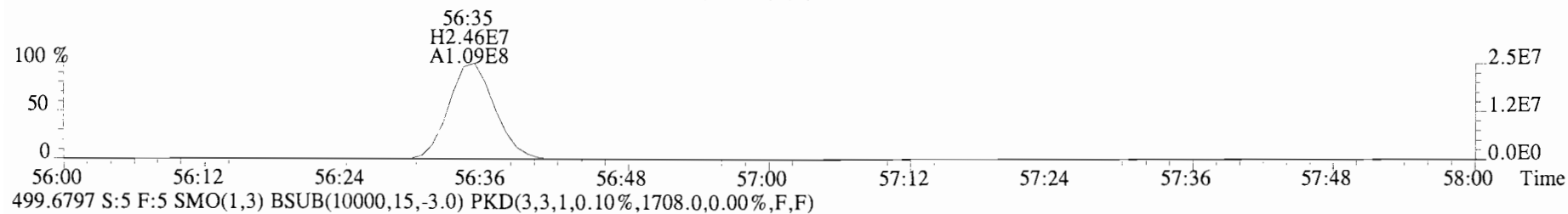


File:140623E2 #1-435 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,64680.0,0.00%,F,F)

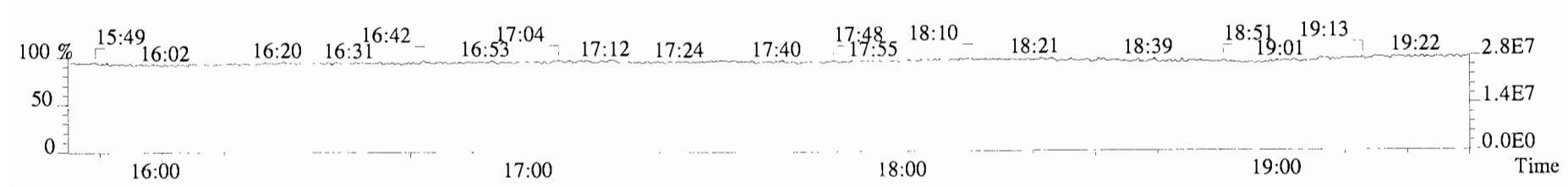
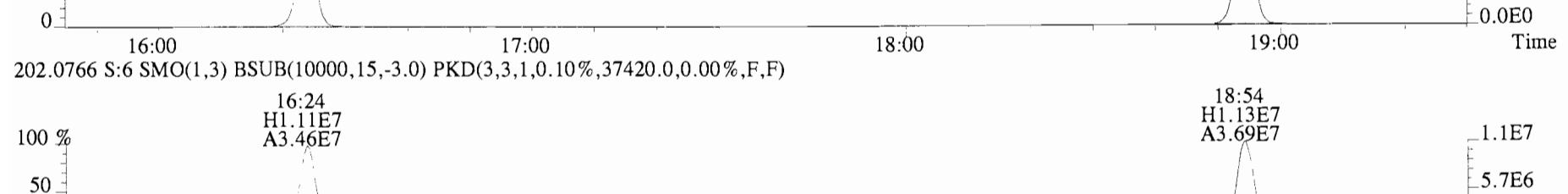
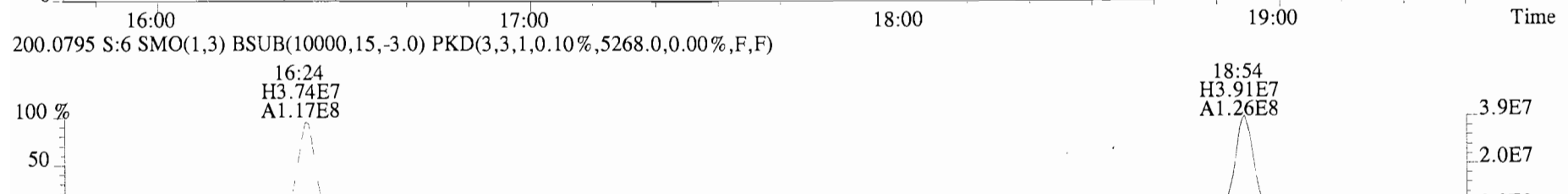
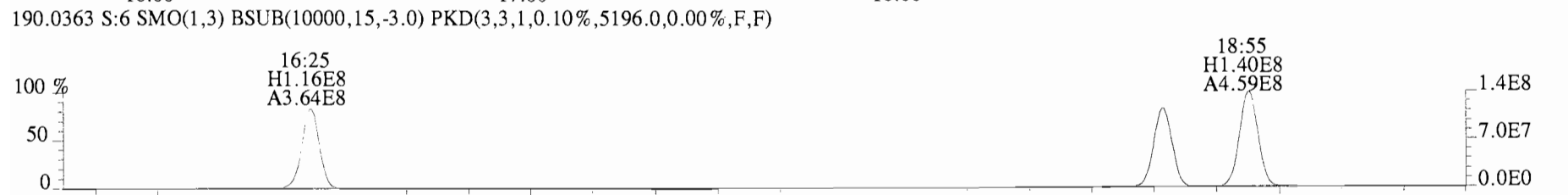




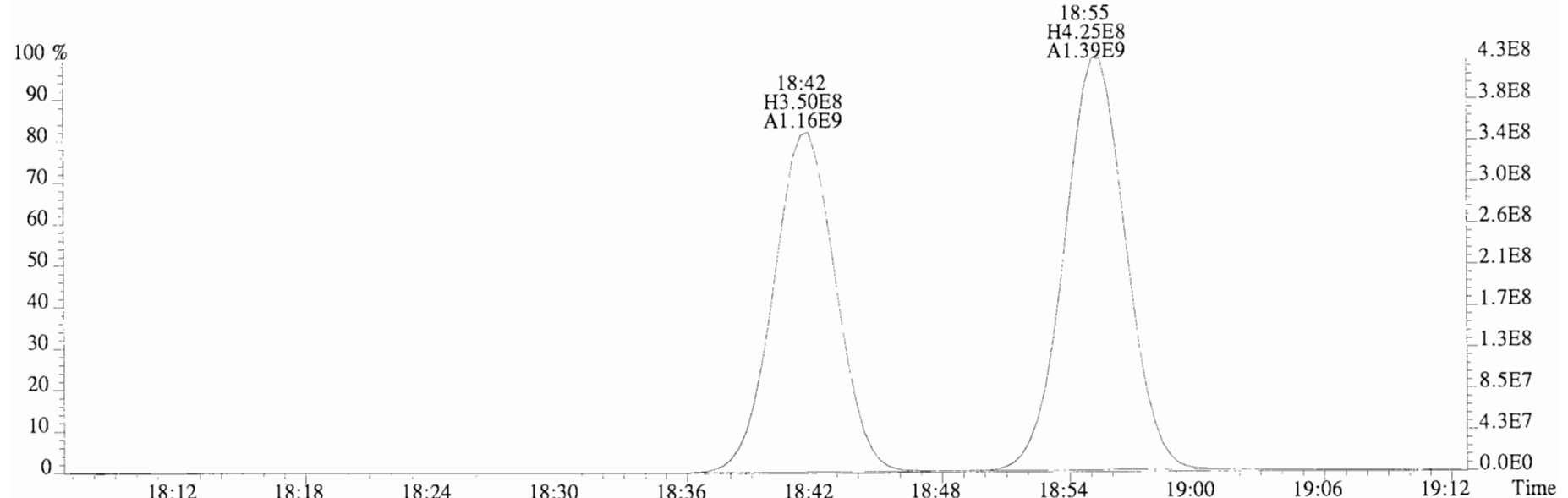
File:140623E2 #1-435 Acq:23-JUN-2014 15:57:45 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-5 PCB CS4 14F1605 Exp:PCB\_ZB1  
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



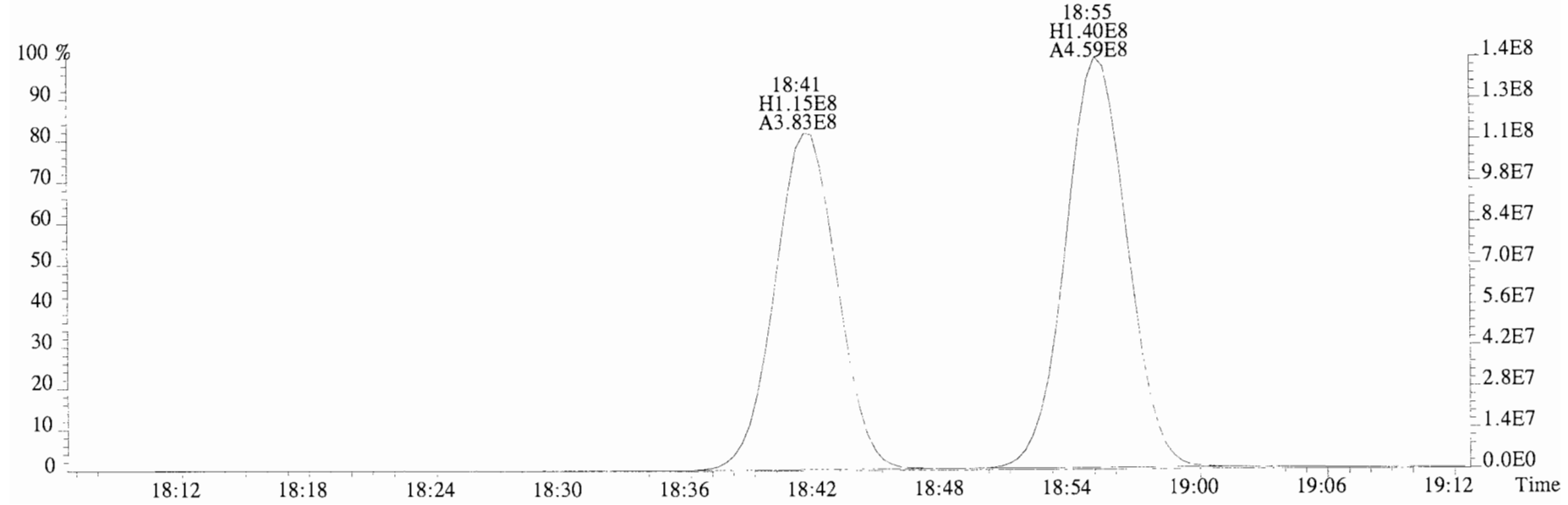
File:140623E2 #1-729 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11652.0,0.00%,F,F)



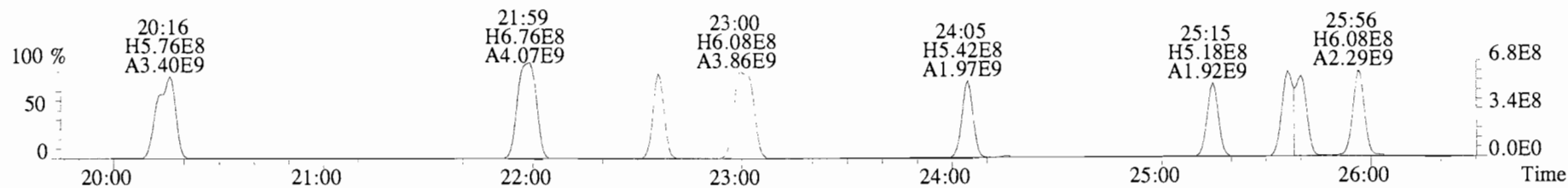
File:140623E2 #1-729 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11652.0,0.00%,F,F)



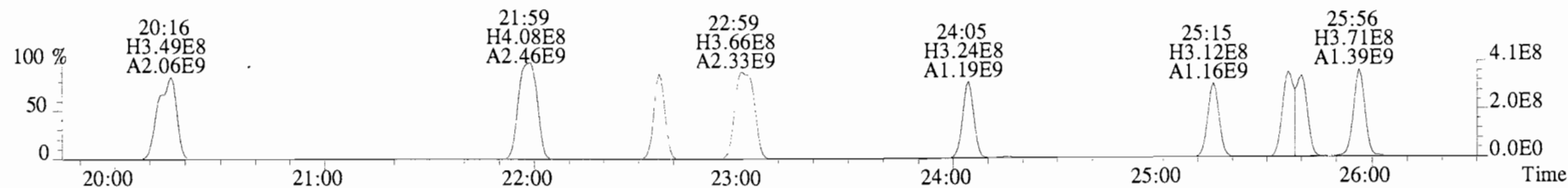
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5196.0,0.00%,F,F)



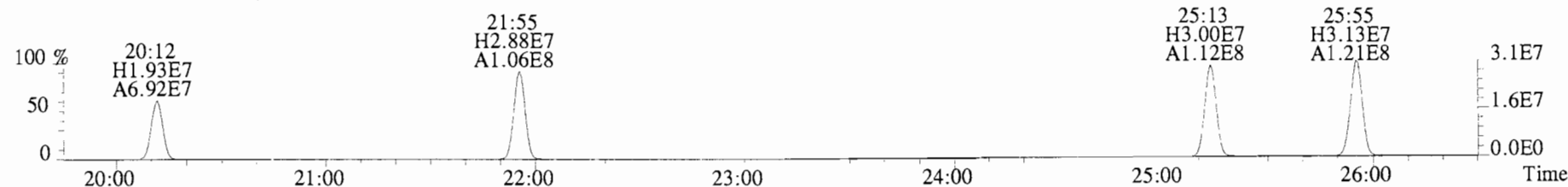
File:140623E2 #1-749 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102564.0,0.00%,F,F)



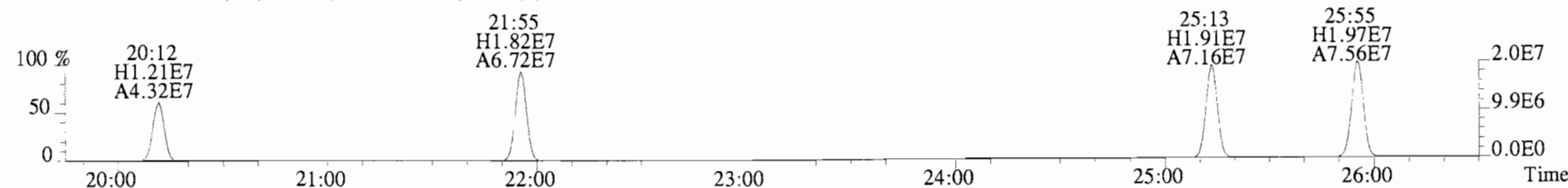
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,68560.0,0.00%,F,F)



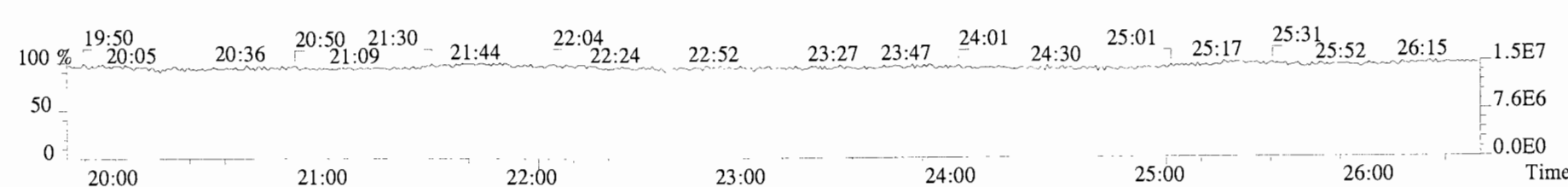
234.0406 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4712.0,0.00%,F,F)



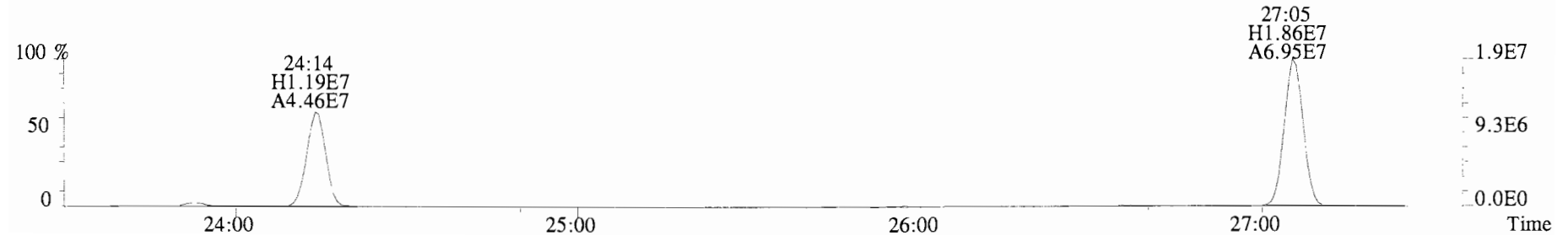
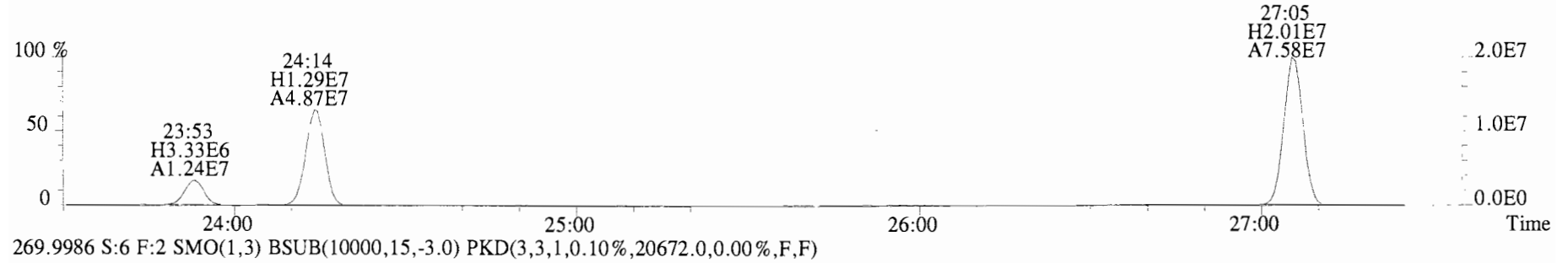
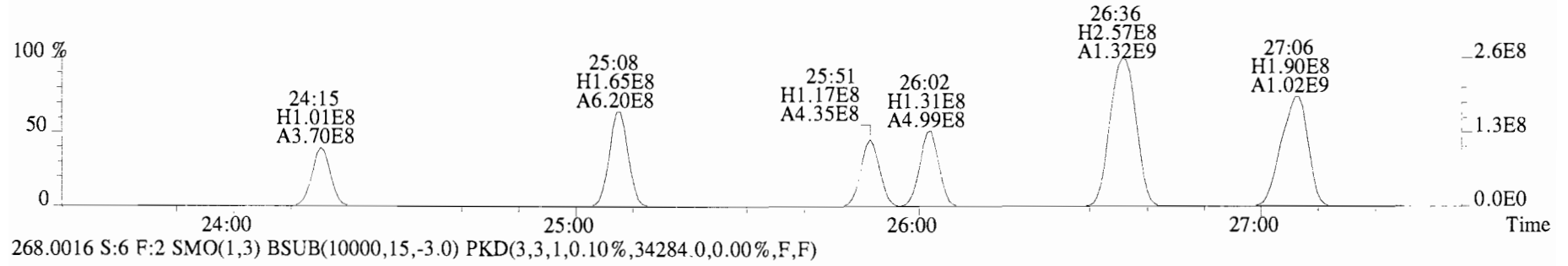
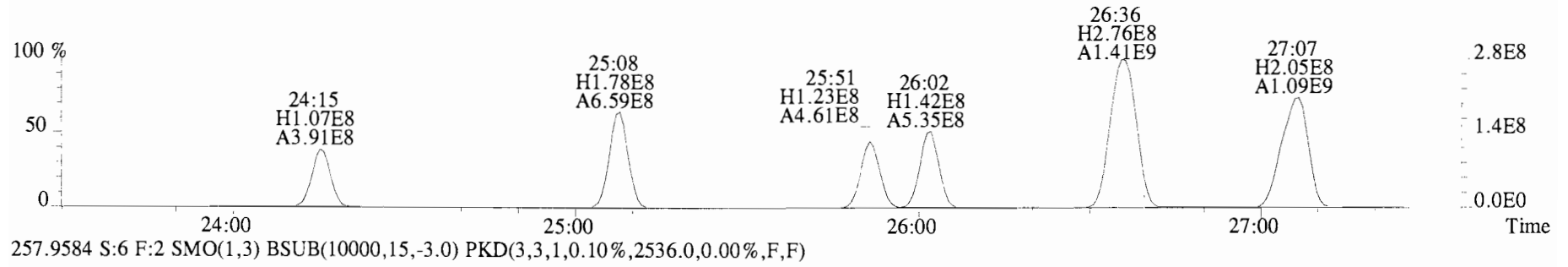
236.0376 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5704.0,0.00%,F,F)



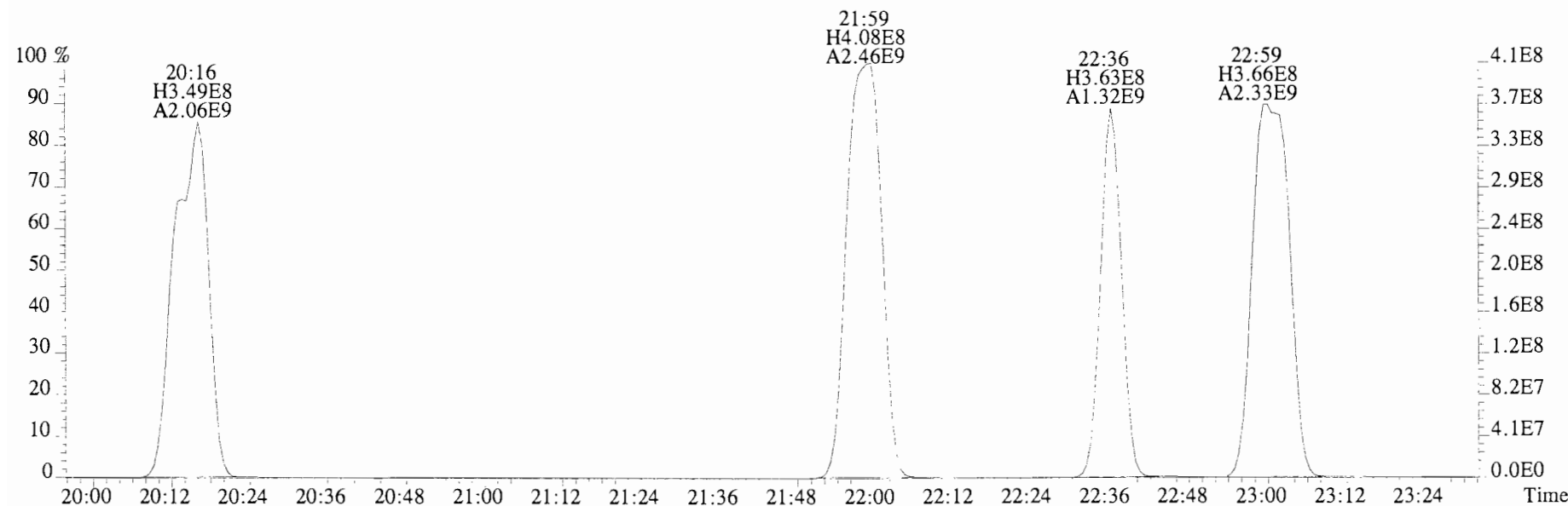
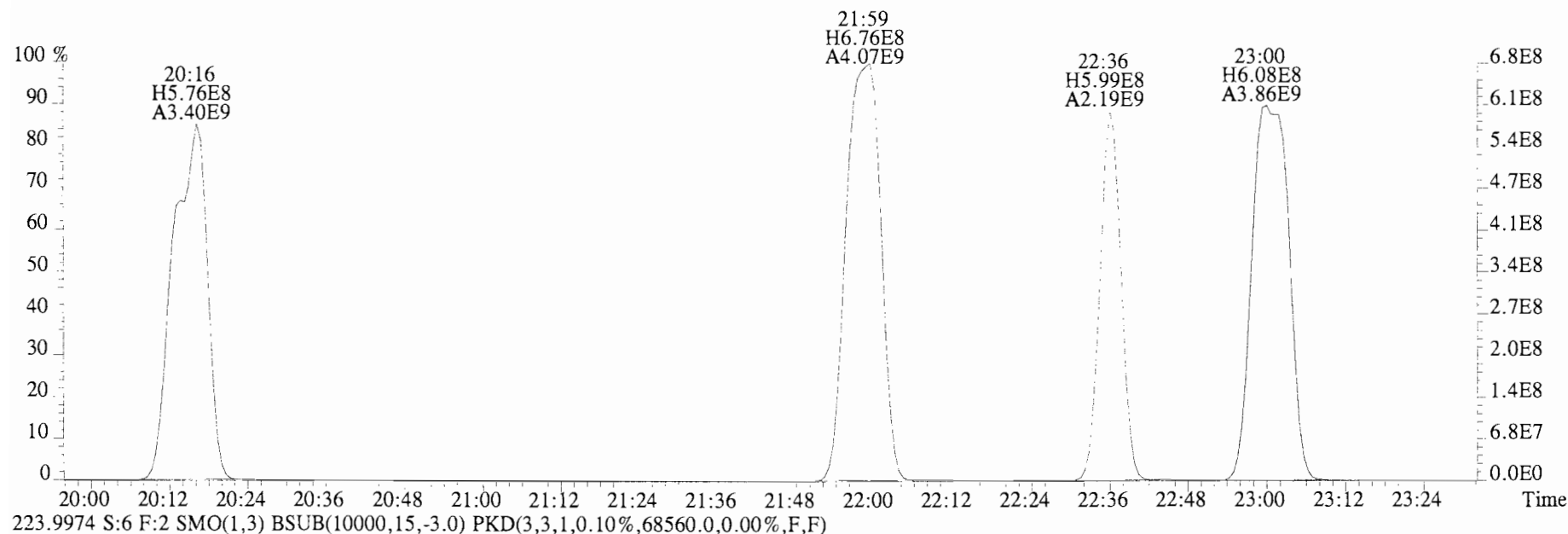
230.9856 S:6 F:2



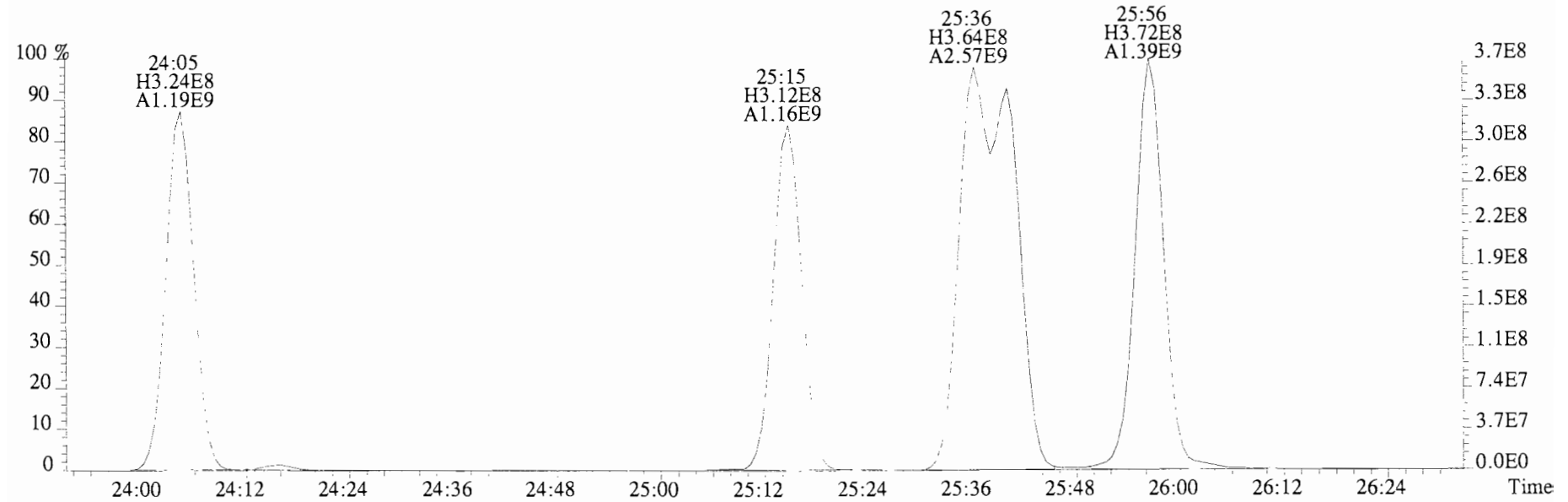
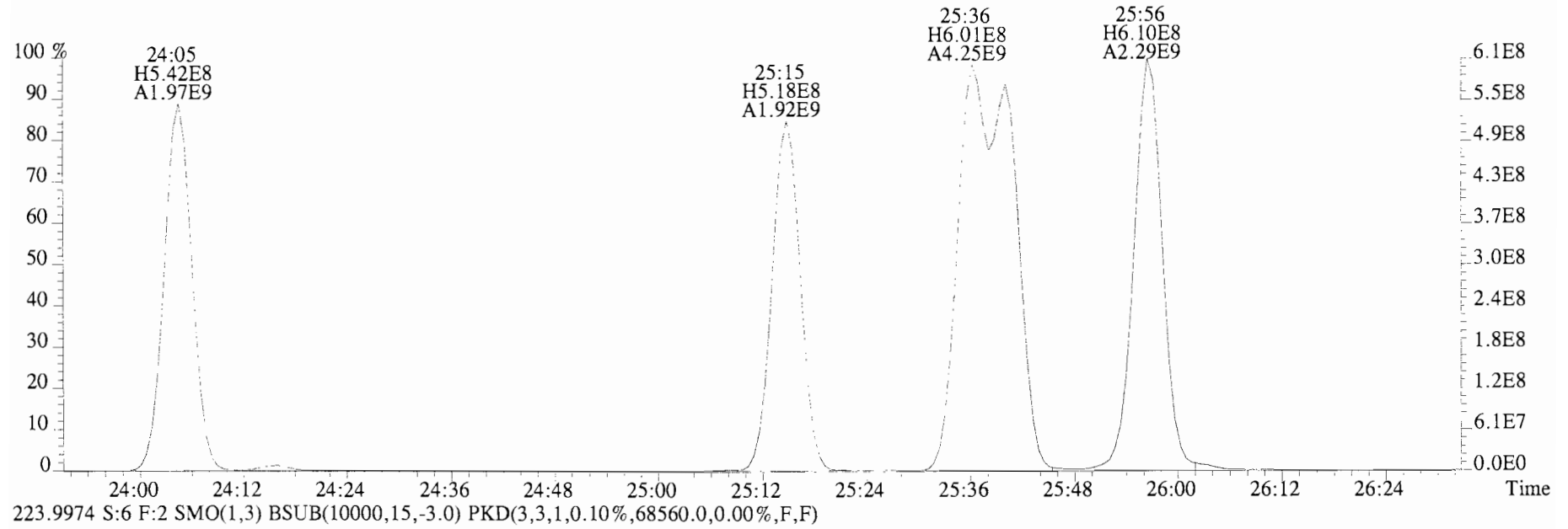
File:140623E2 #1-749 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2900.0,0.00%,F,F)



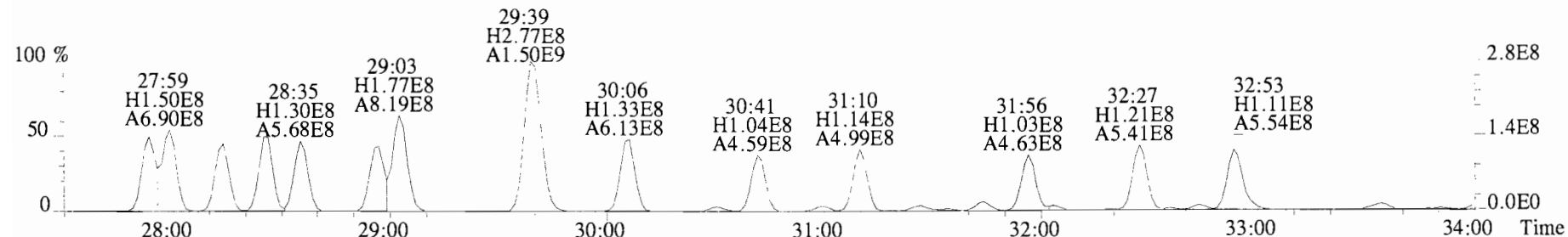
File:140623E2 #1-749 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102564.0,0.00%,F,F)



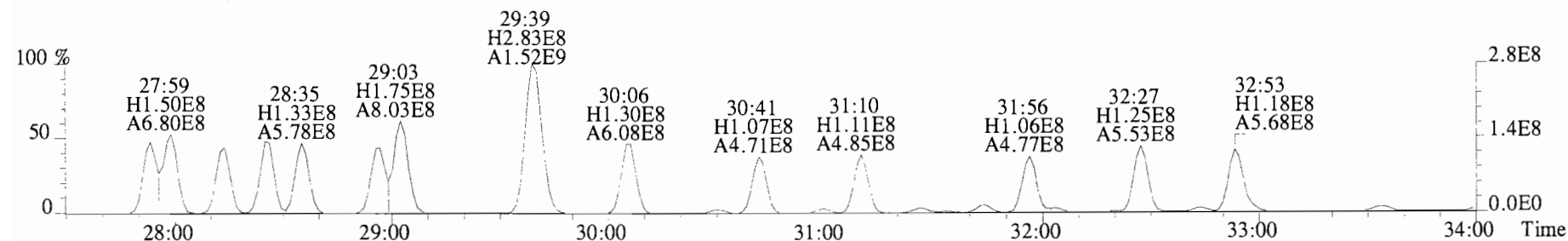
File:140623E2 #1-749 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102564.0,0.00%,F,F)



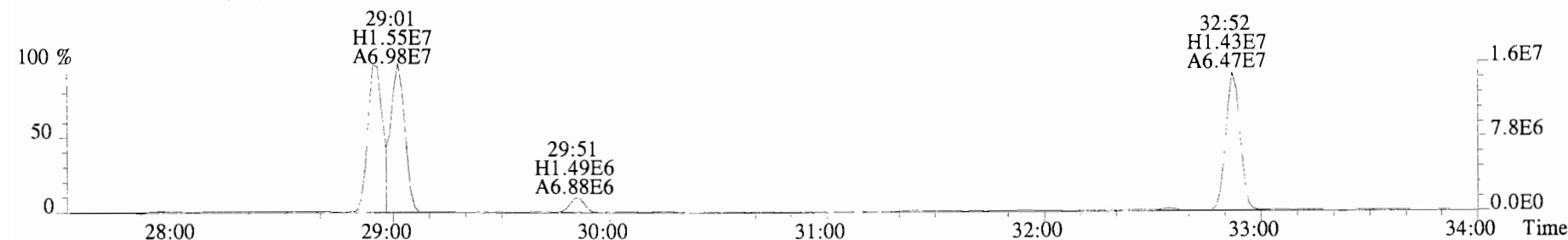
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,217120.0,0.00%,F,F)



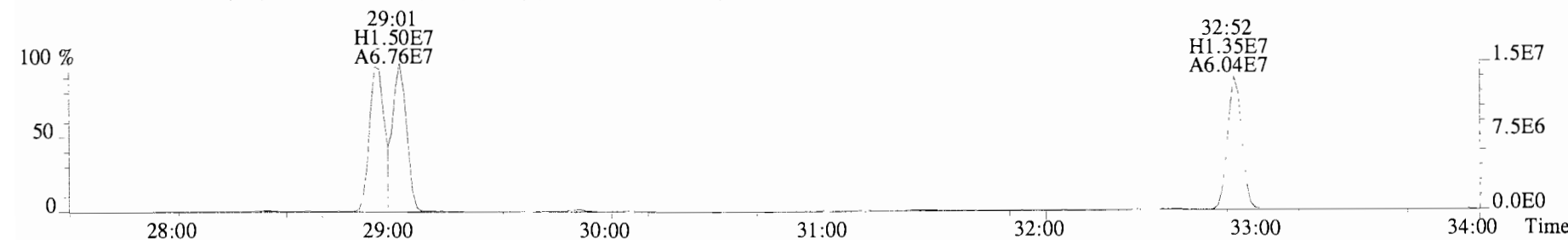
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,215460.0,0.00%,F,F)



268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41040.0,0.00%,F,F)

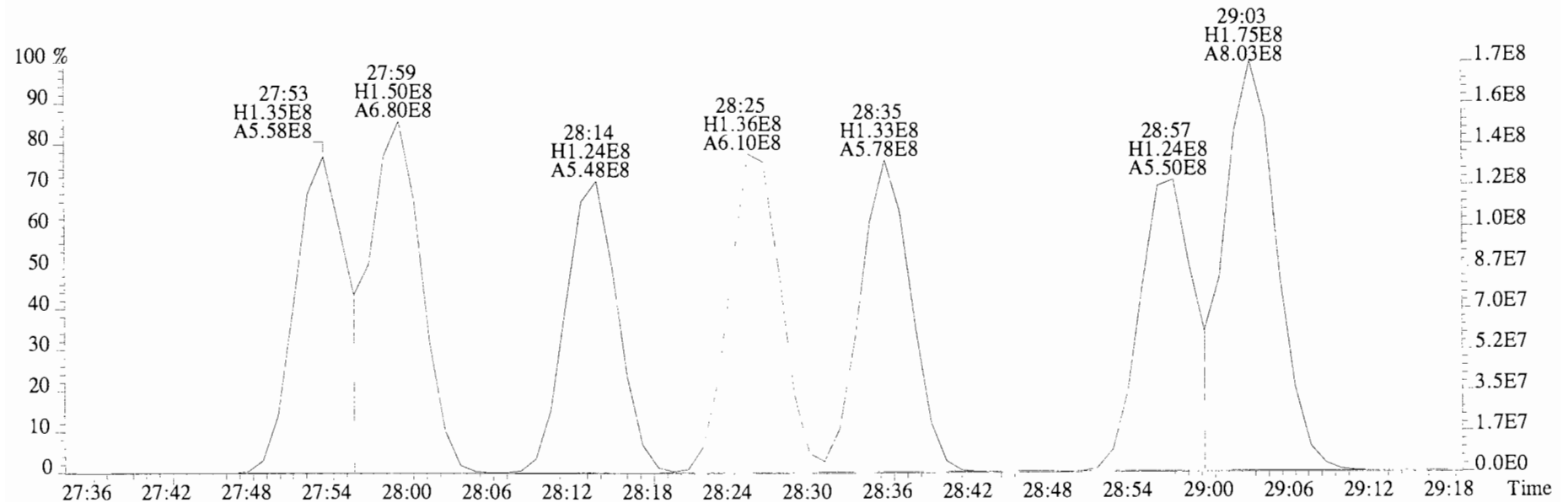
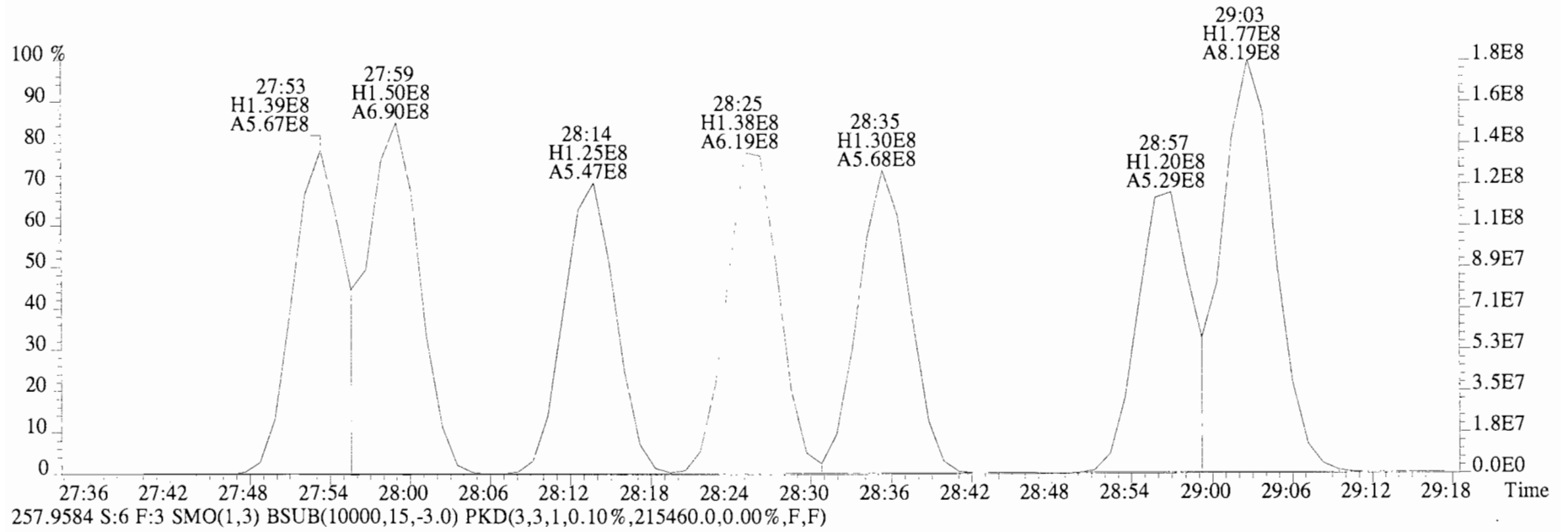


269.9986 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24660.0,0.00%,F,F)

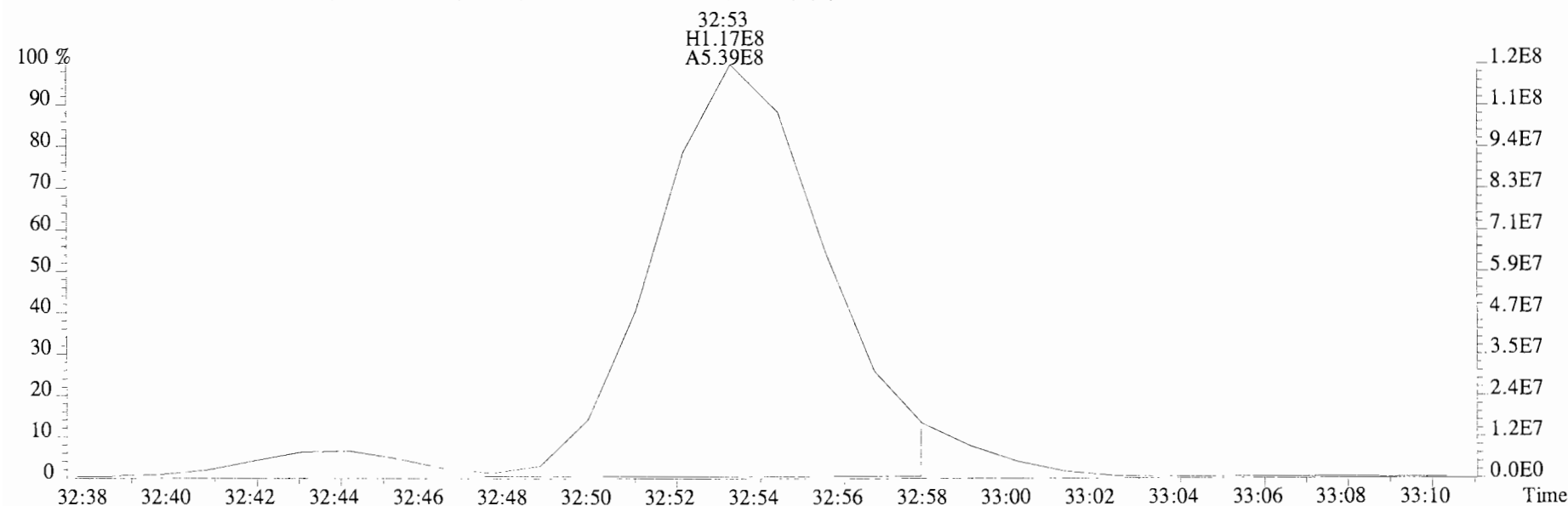
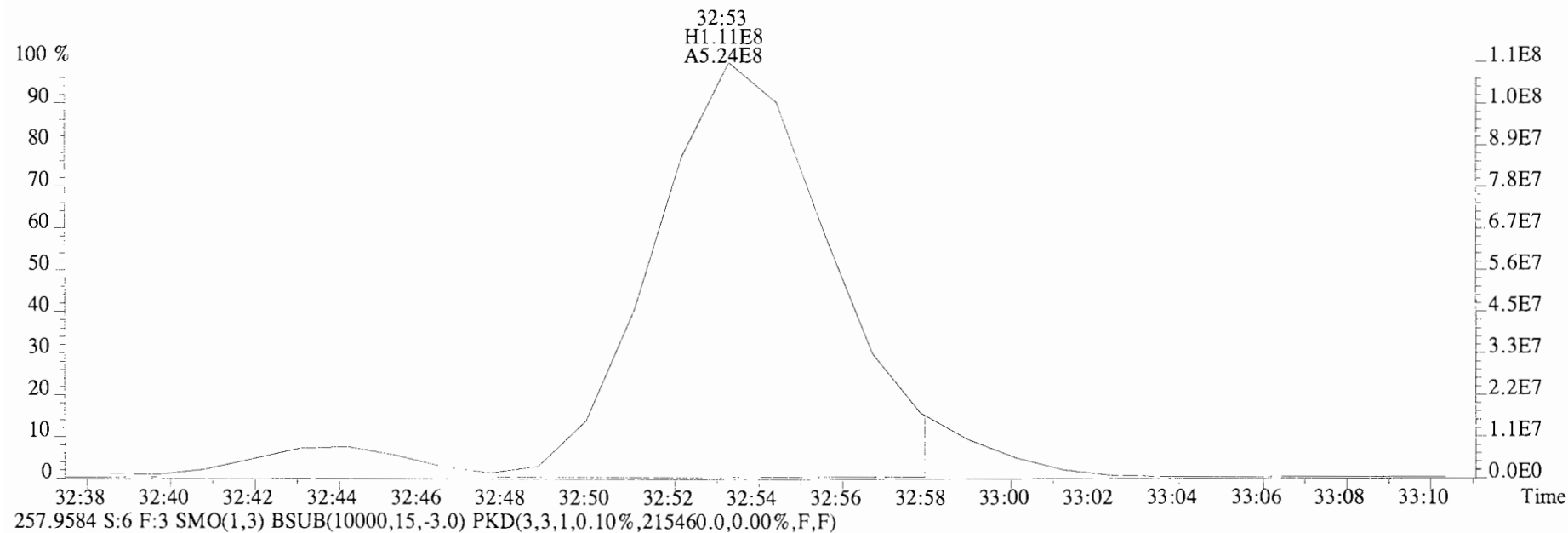




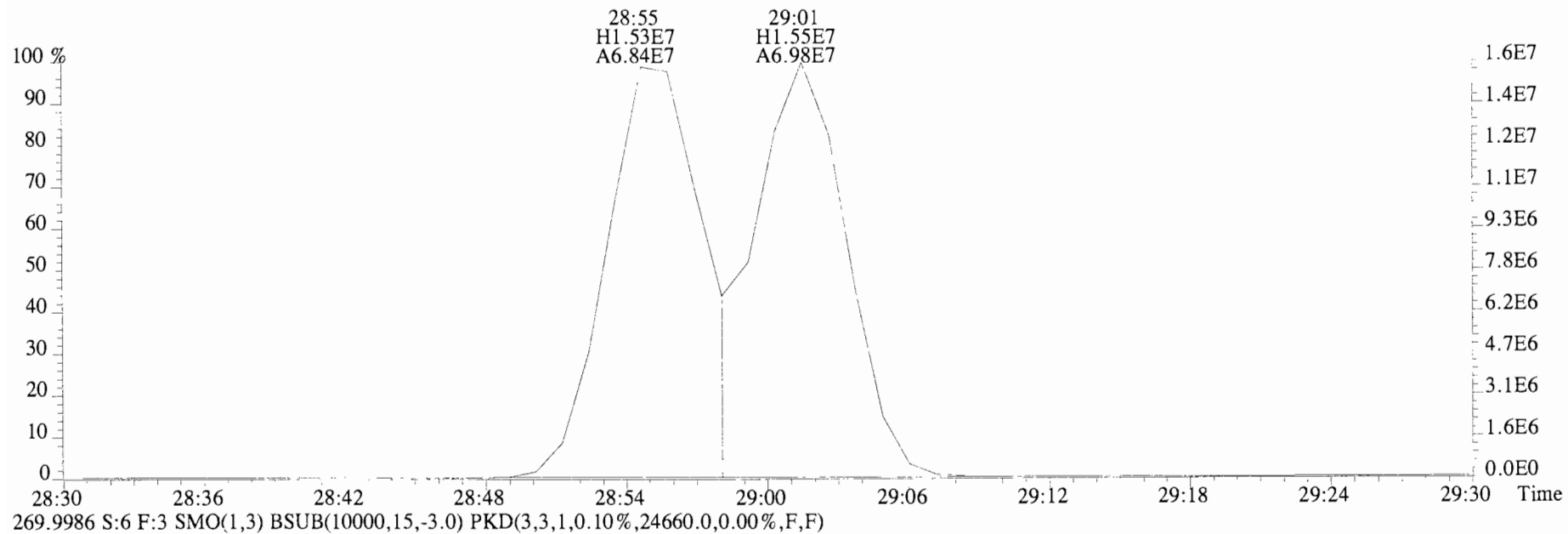
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,217120.0,0.00%,F,F)



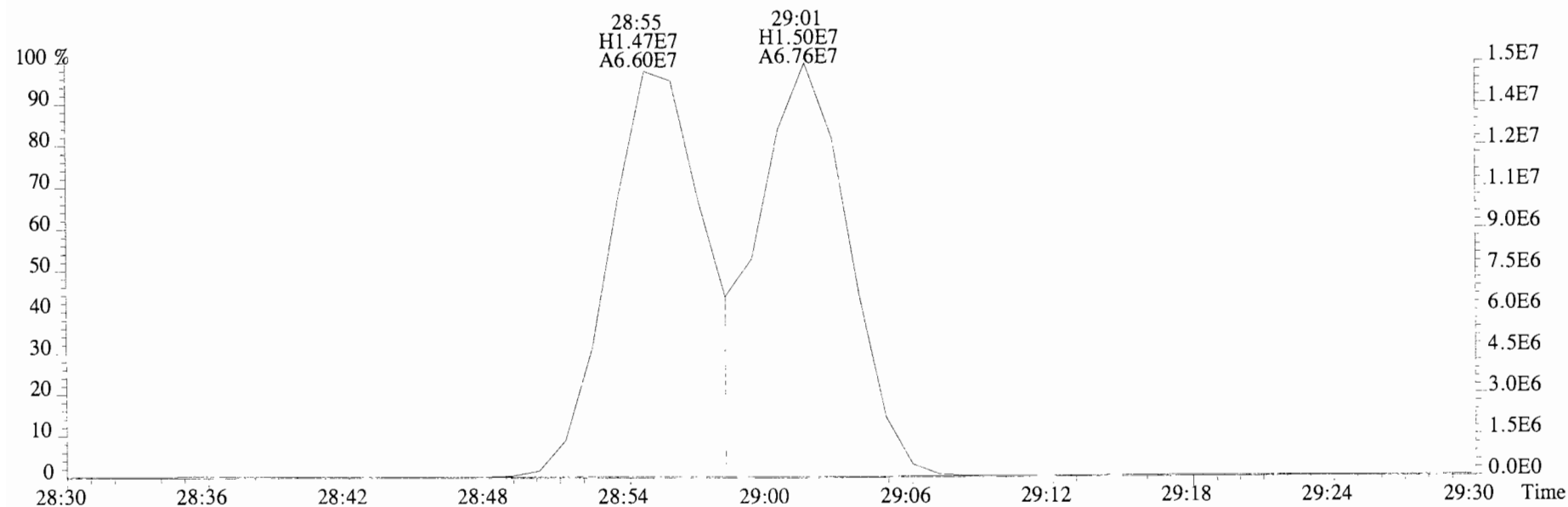
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,217120.0,0.00%,F,F)



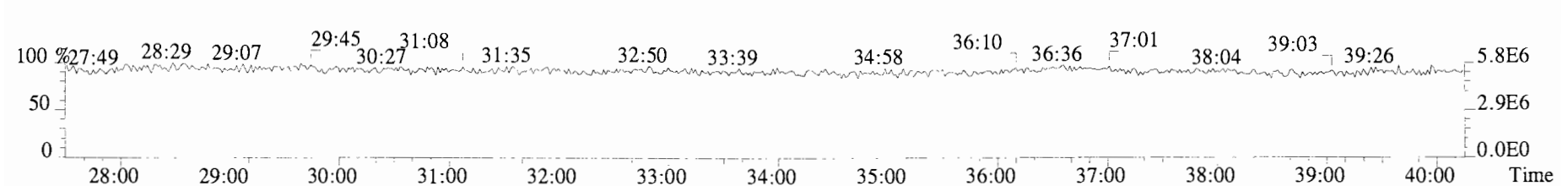
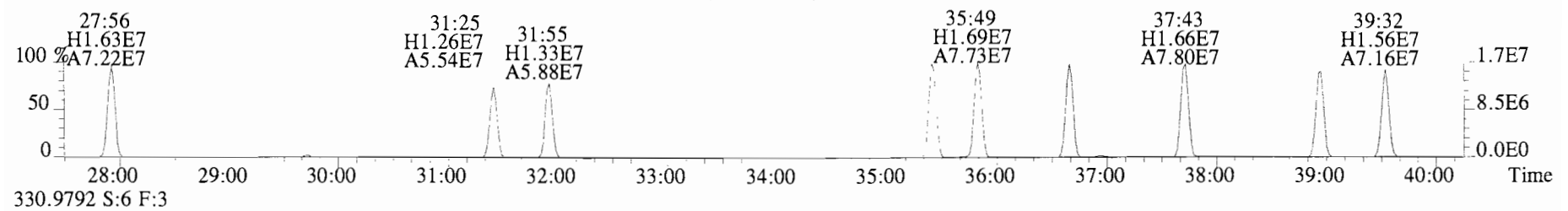
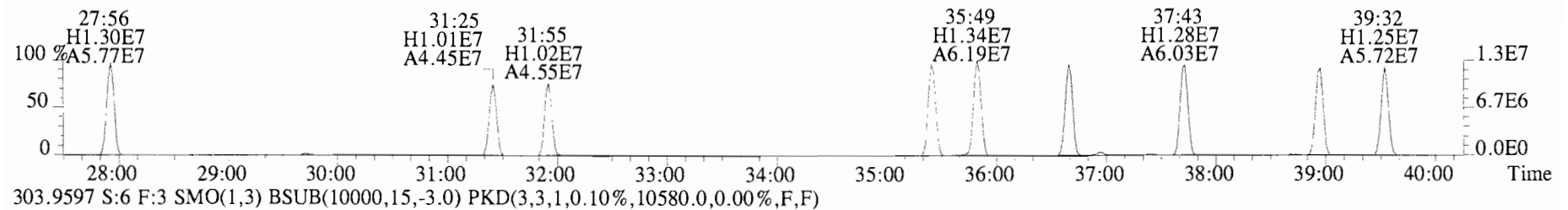
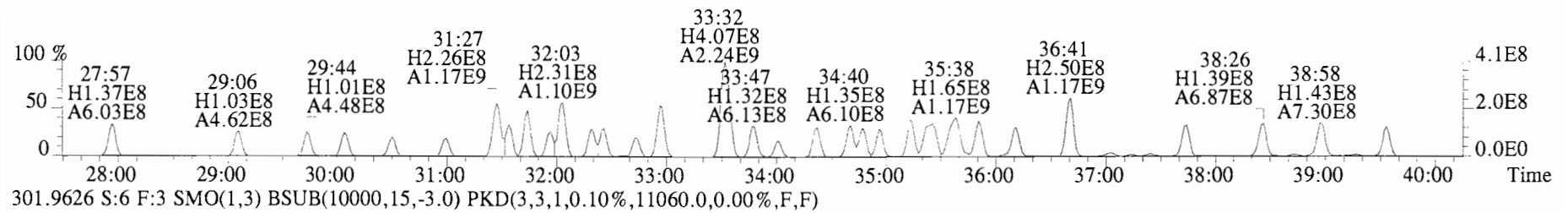
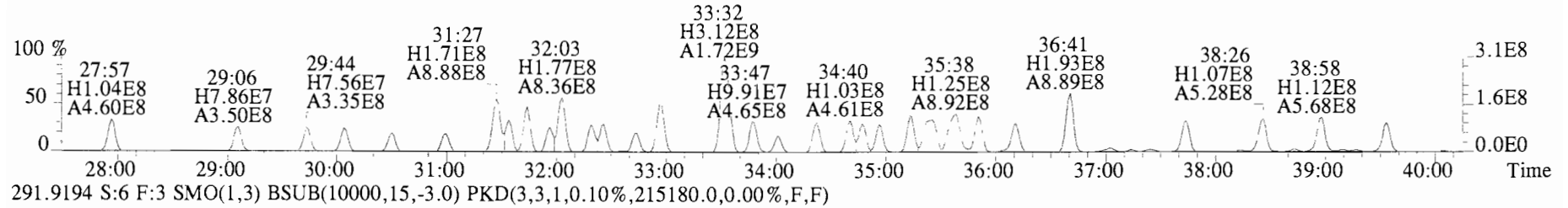
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,41040.0,0.00%,F,F)



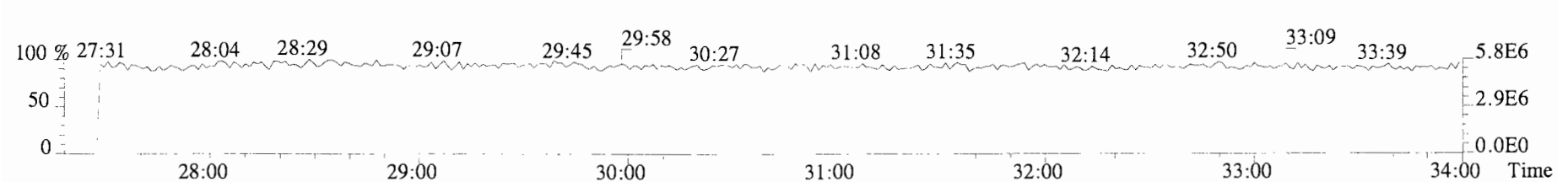
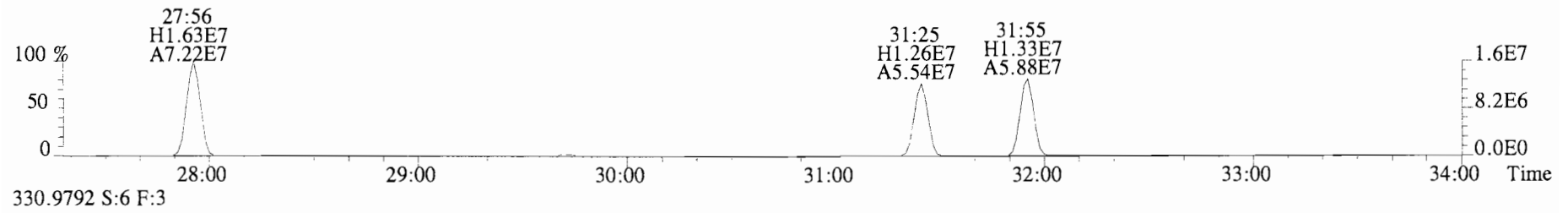
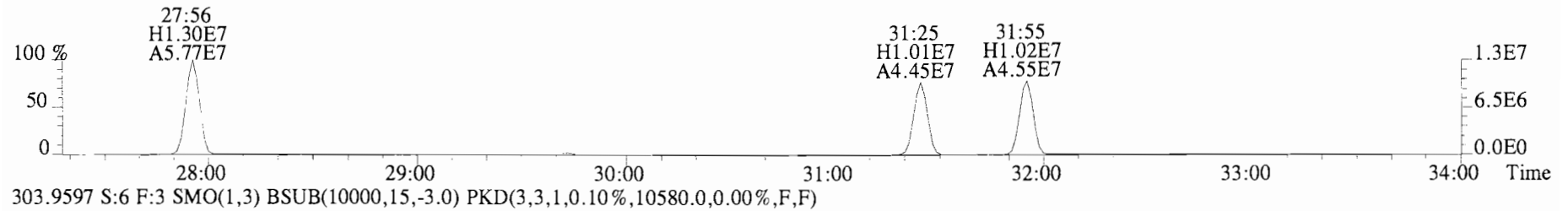
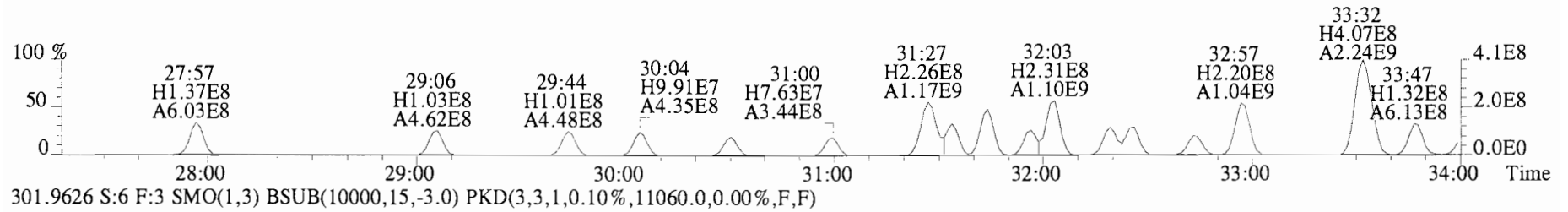
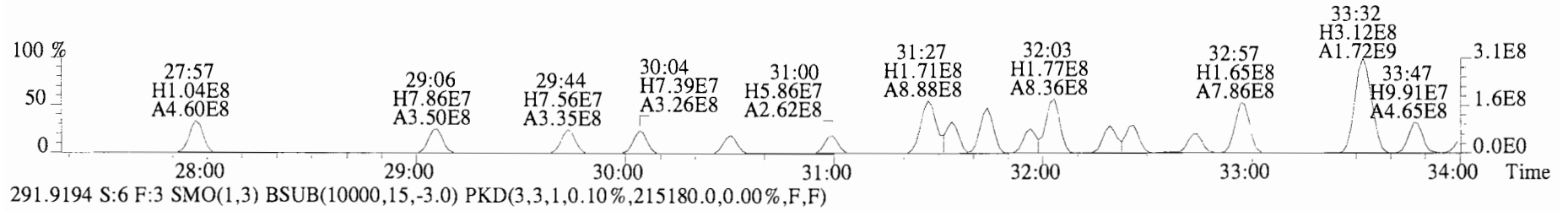
269.9986 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24660.0,0.00%,F,F)



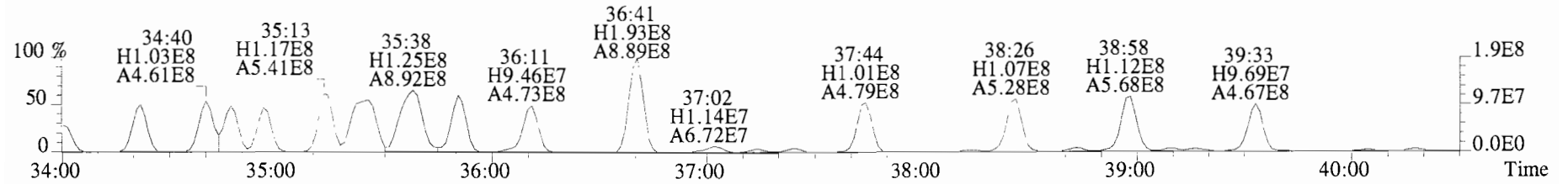
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,161576.0,0.00%,F,F)



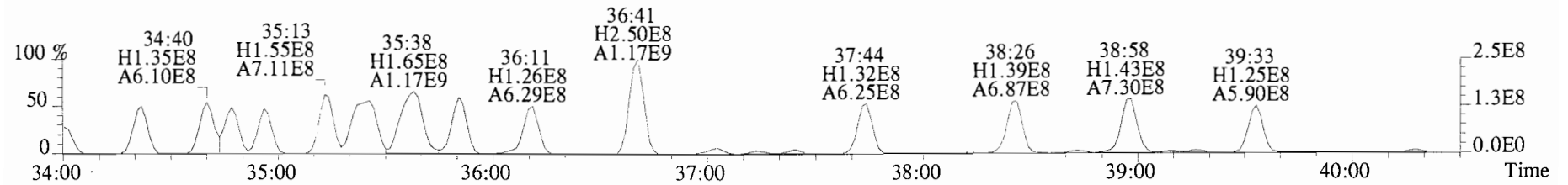
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,161576.0,0.00%,F,F)



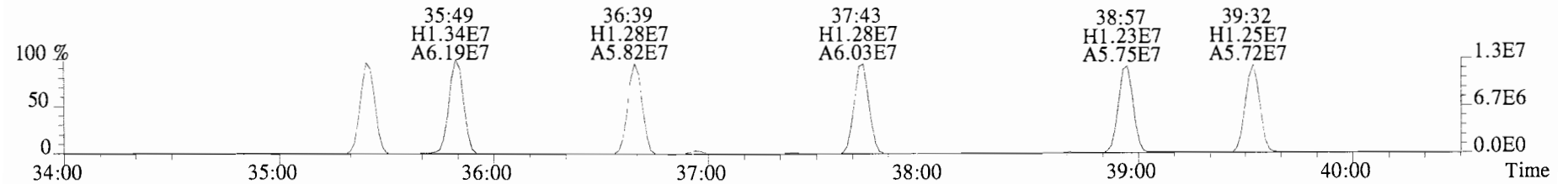
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,161576.0,0.00%,F,F)



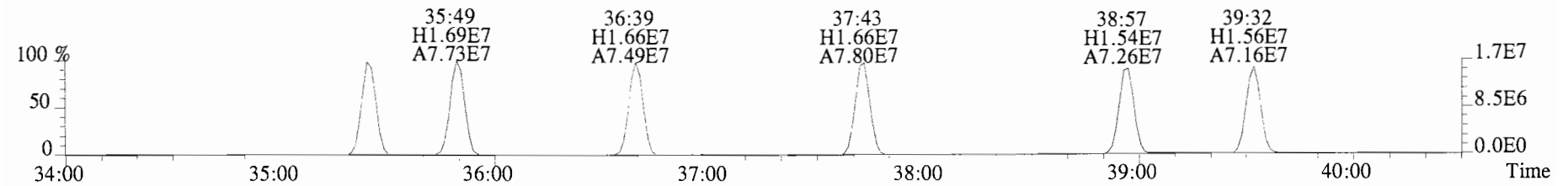
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,215180.0,0.00%,F,F)



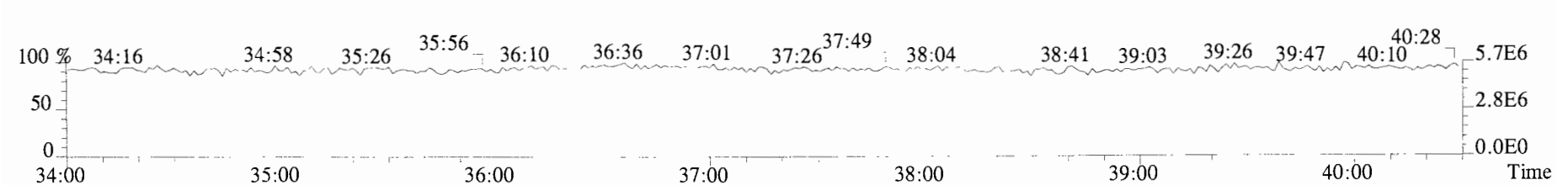
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11060.0,0.00%,F,F)



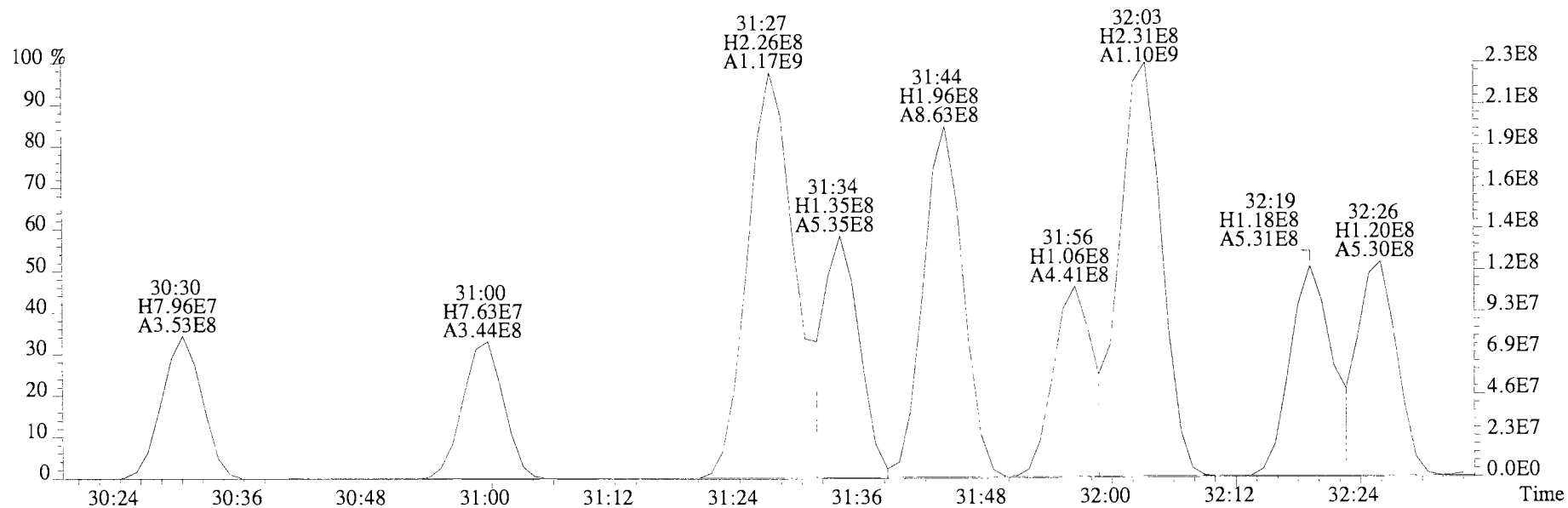
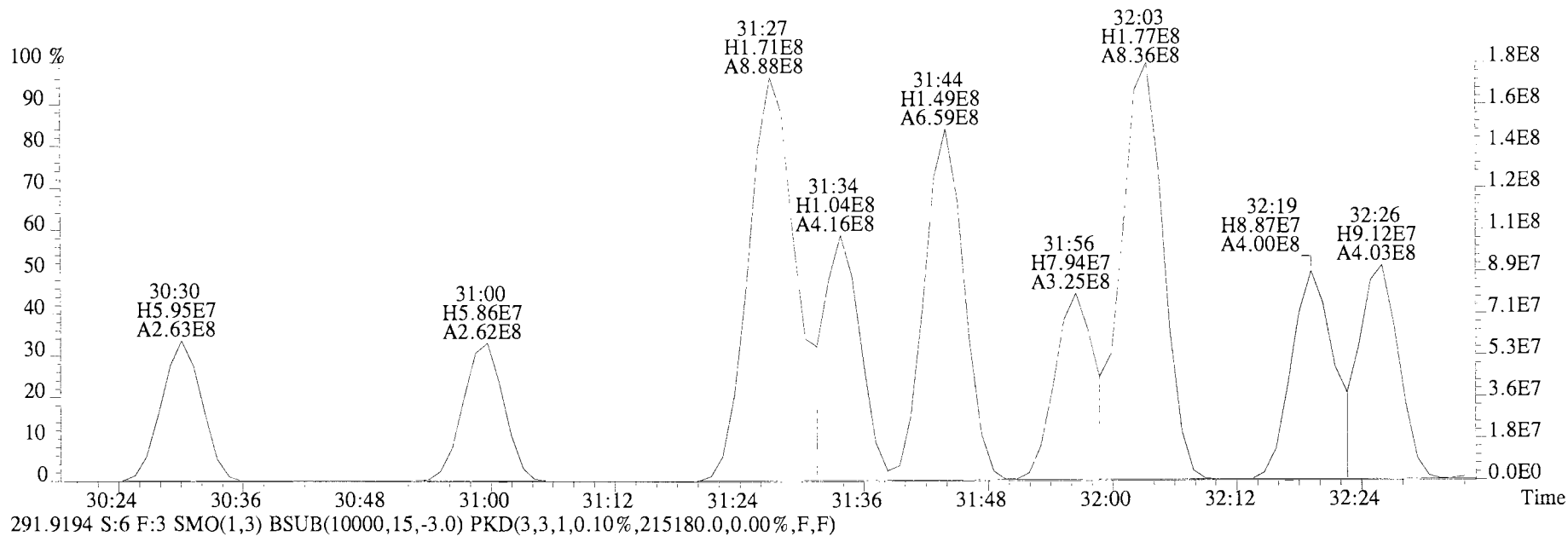
303.9597 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10580.0,0.00%,F,F)



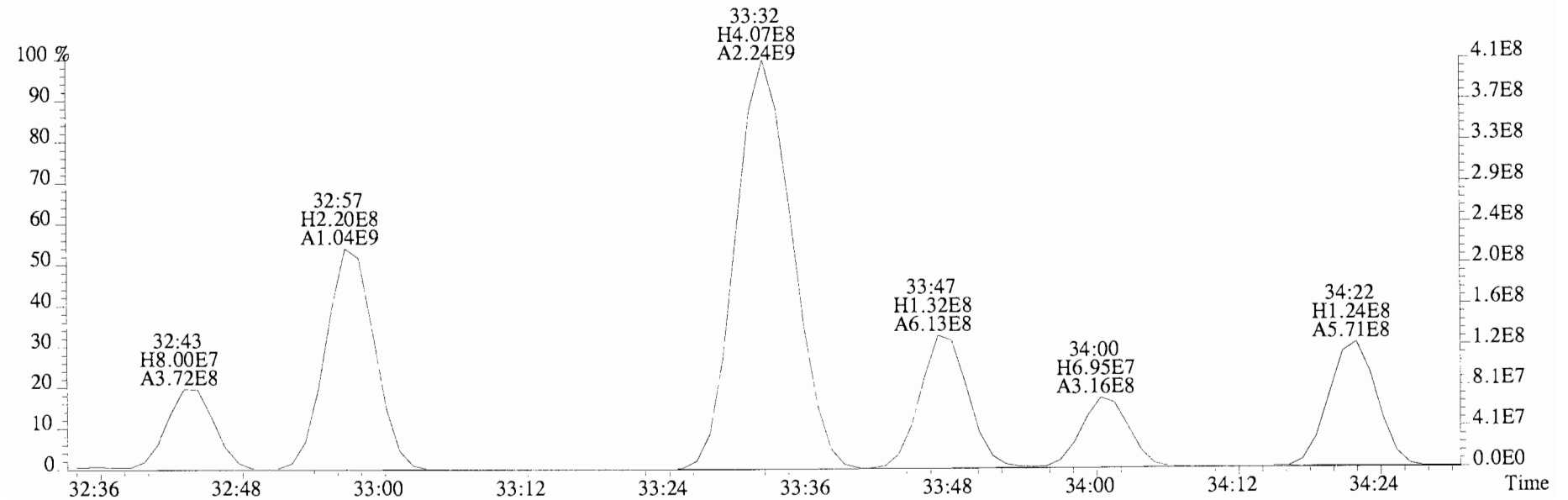
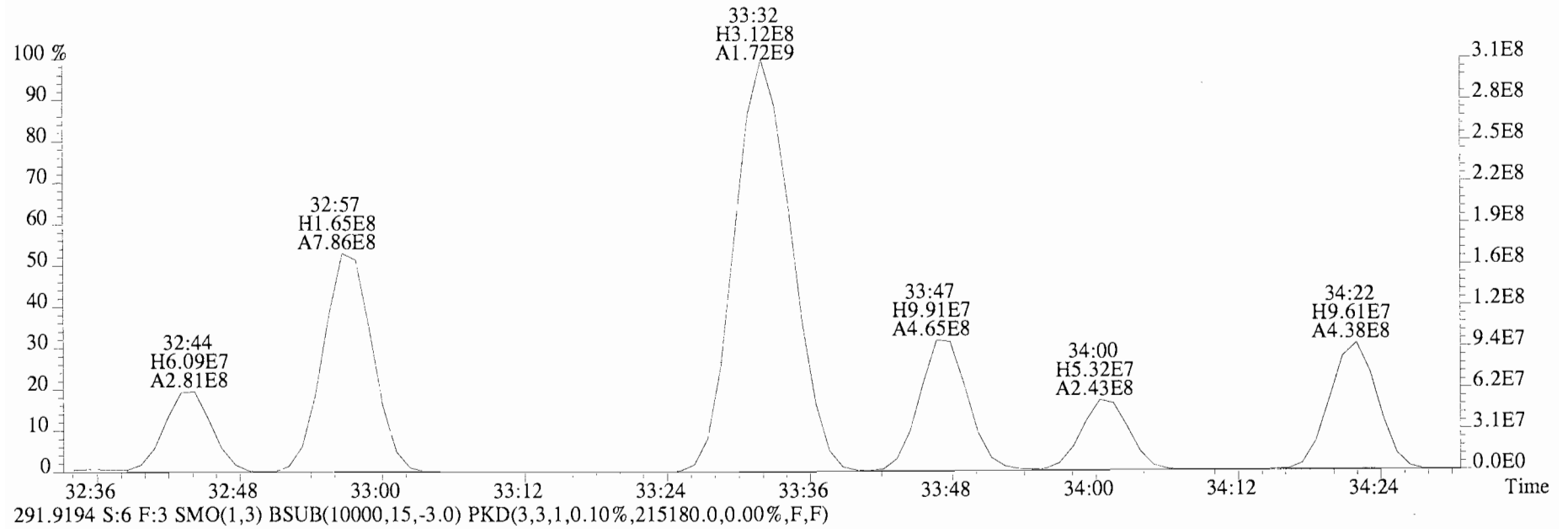
330.9792 S:6 F:3



File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,161576.0,0.00%,F,F)

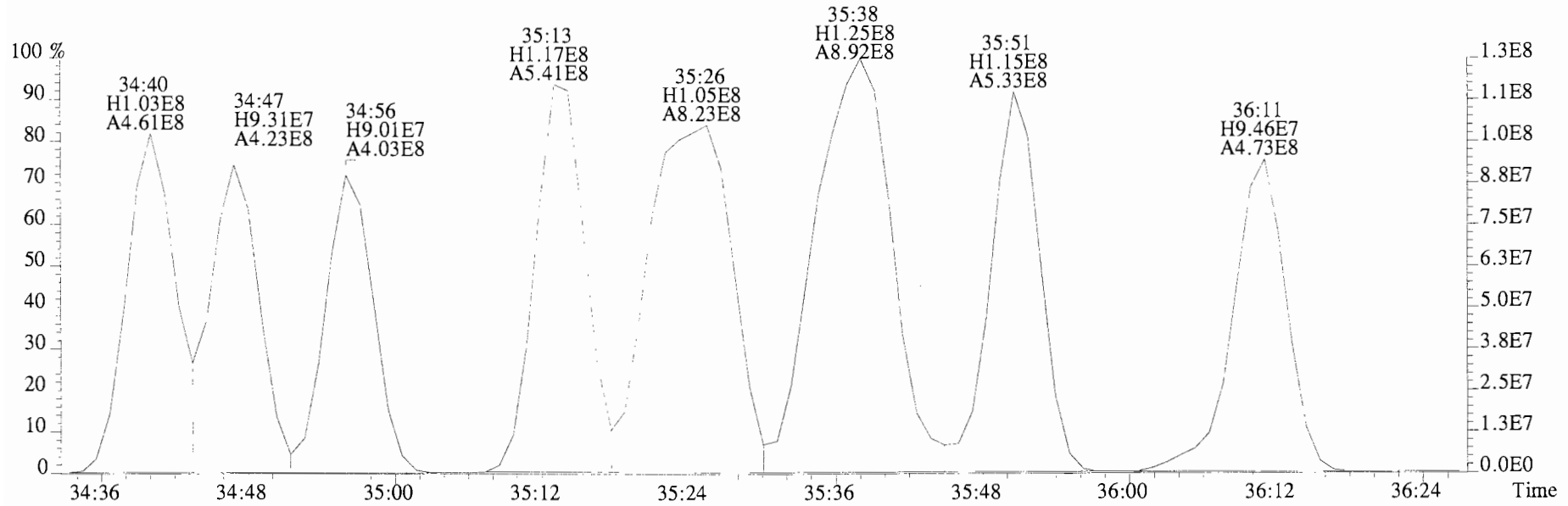


File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,161576.0,0.00%,F,F)

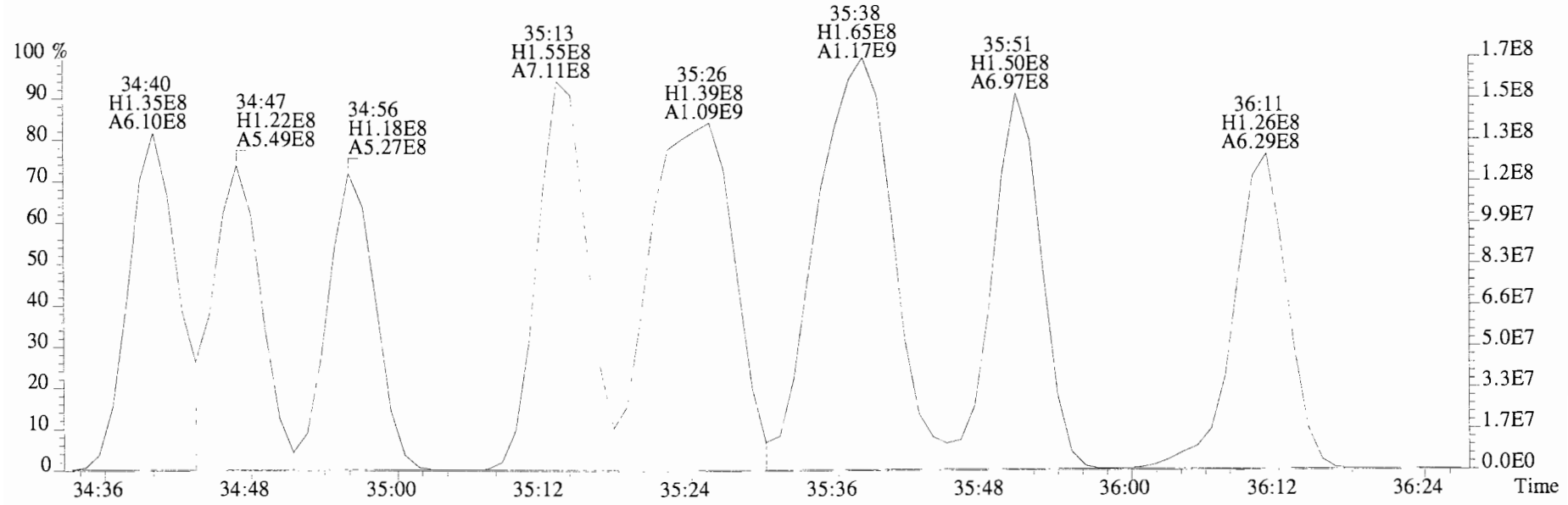




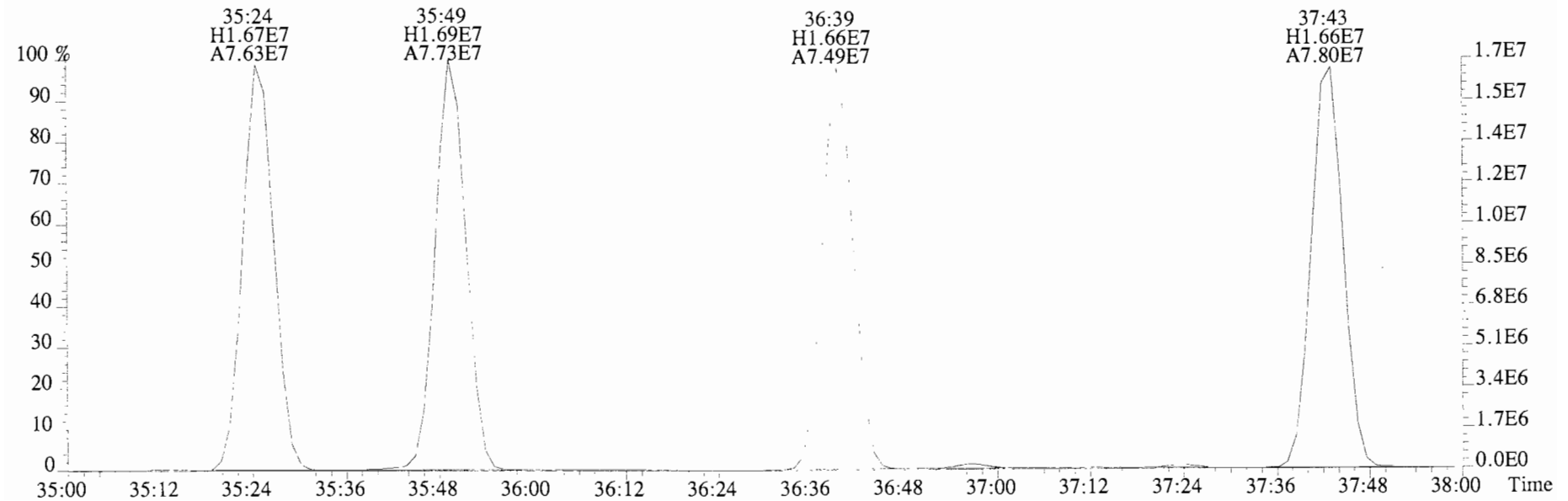
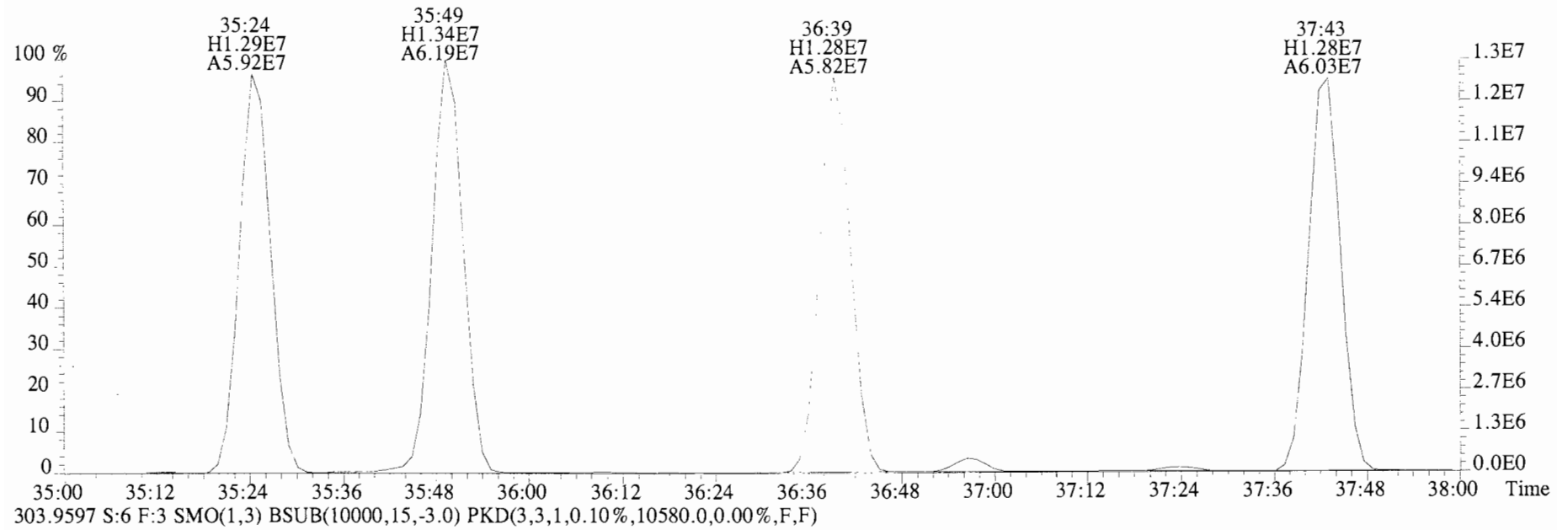
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,161576.0,0.00%,F,F)



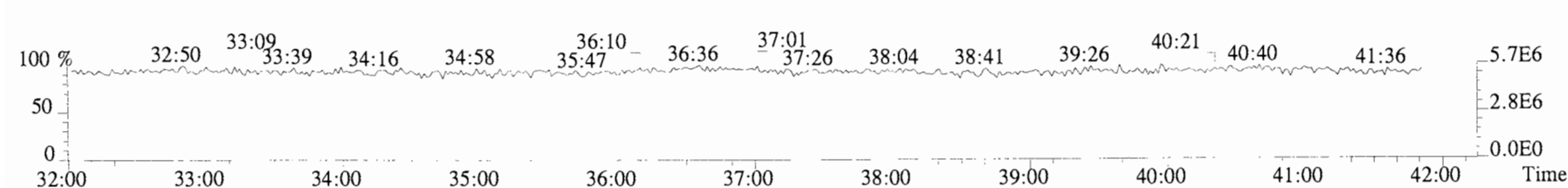
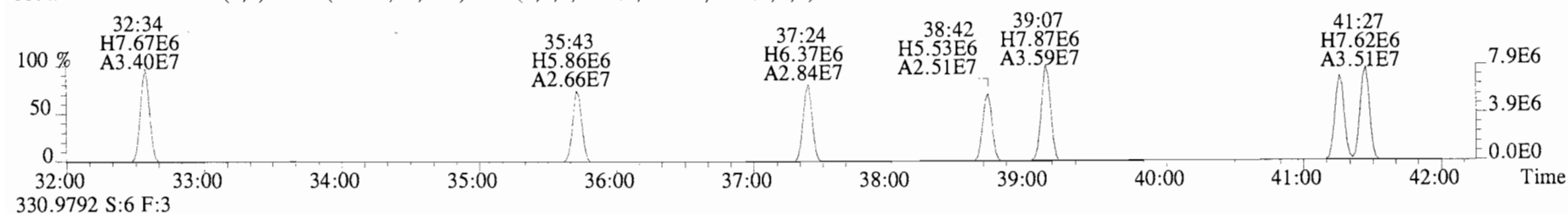
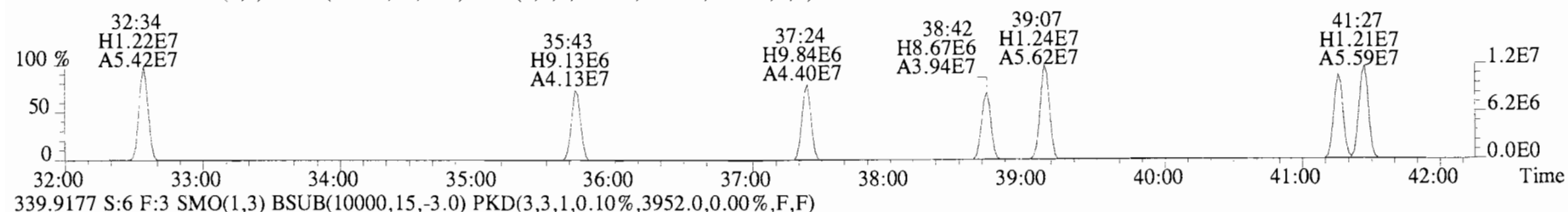
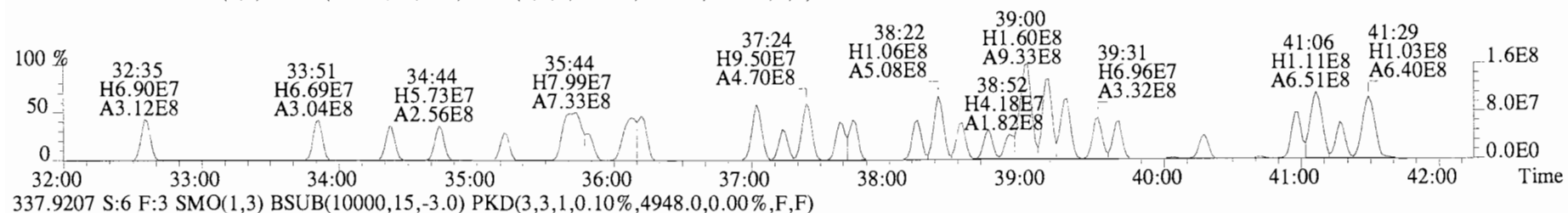
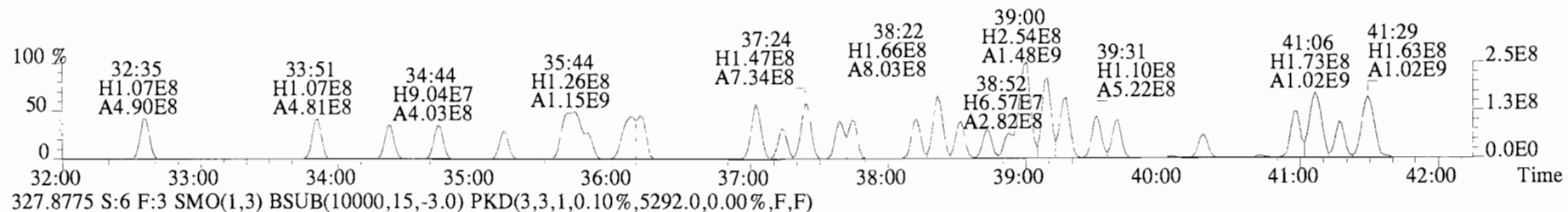
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,215180.0,0.00%,F,F)



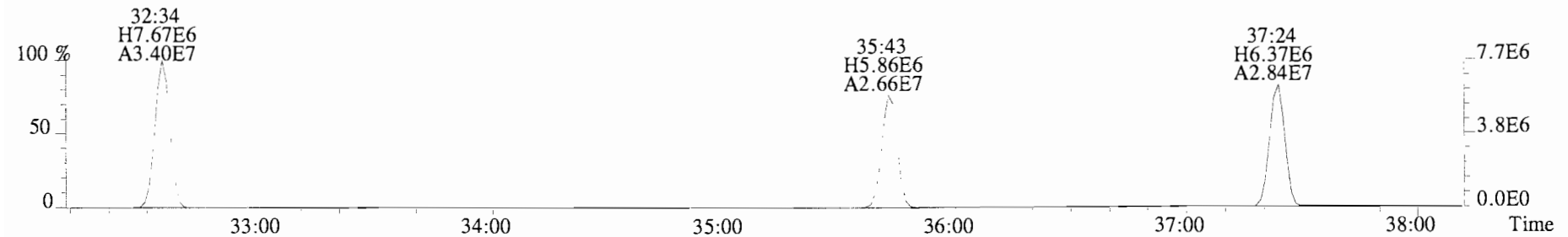
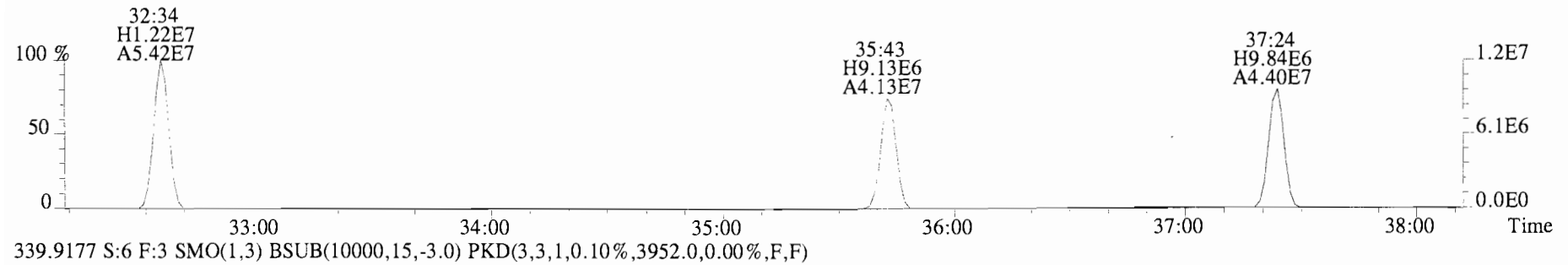
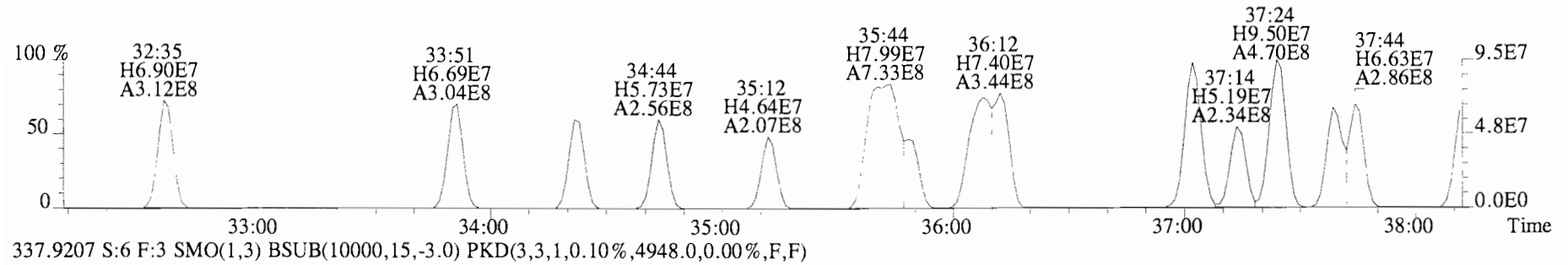
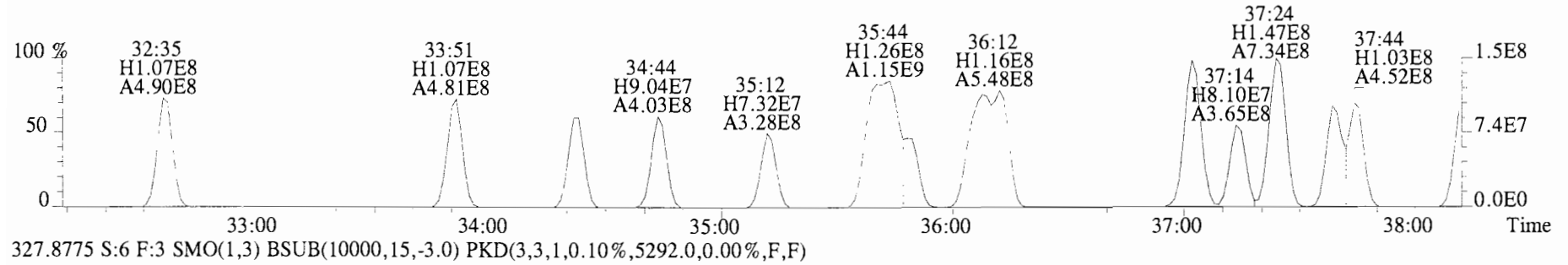
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11060.0,0.00%,F,F)



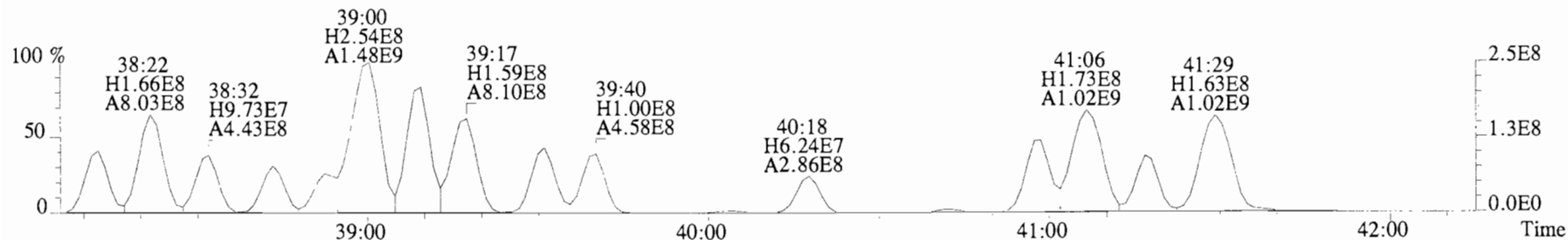
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



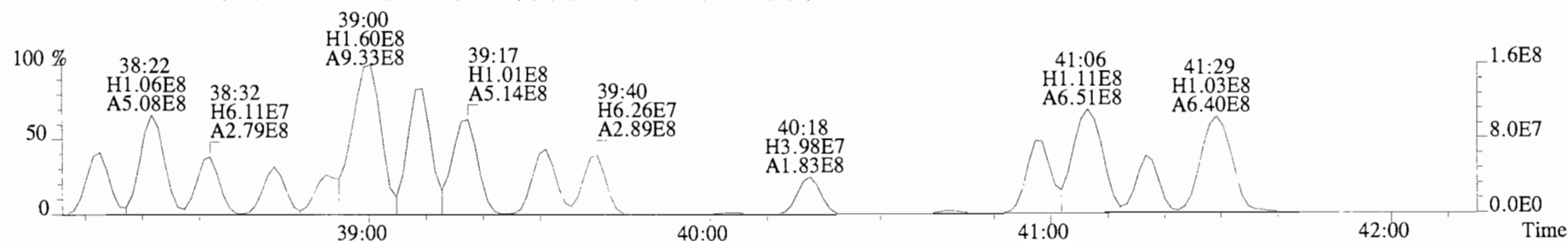
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



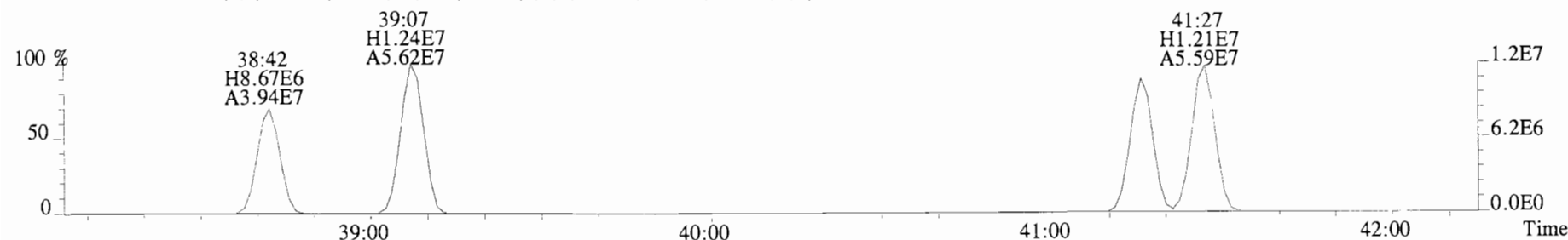
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



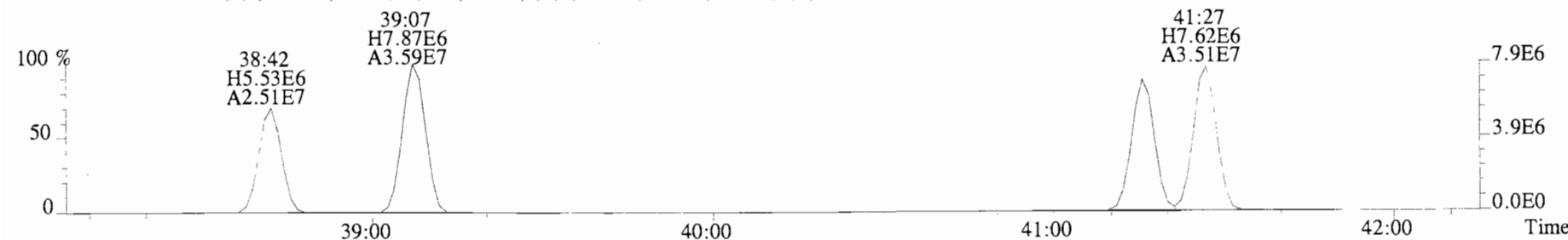
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5292.0,0.00%,F,F)



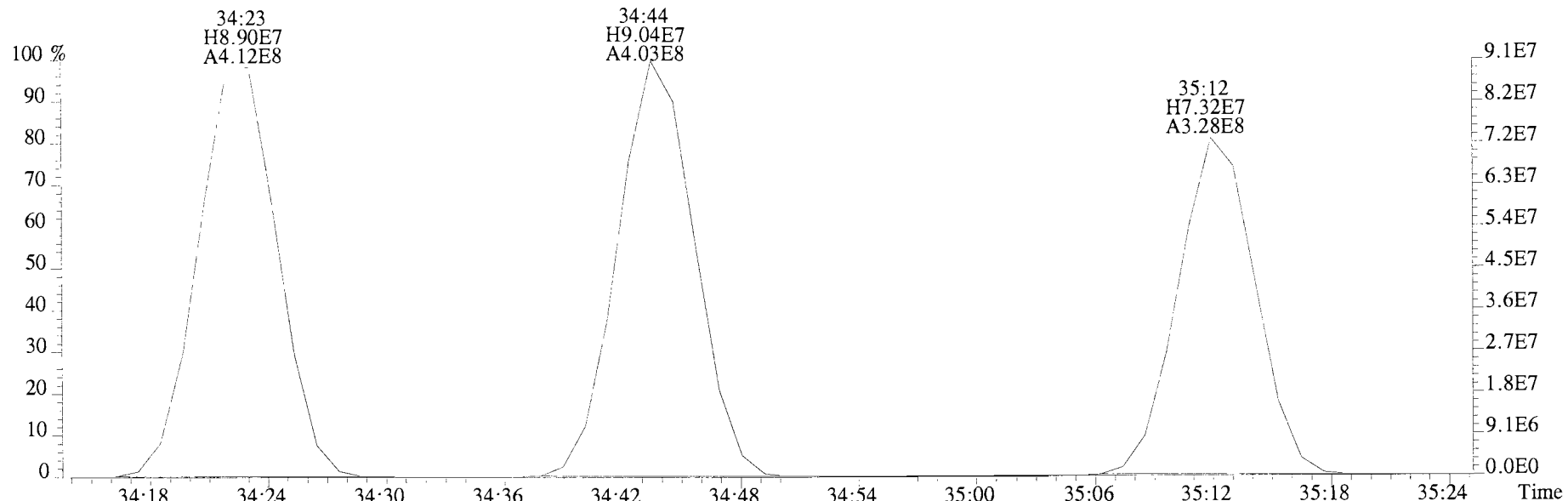
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4948.0,0.00%,F,F)



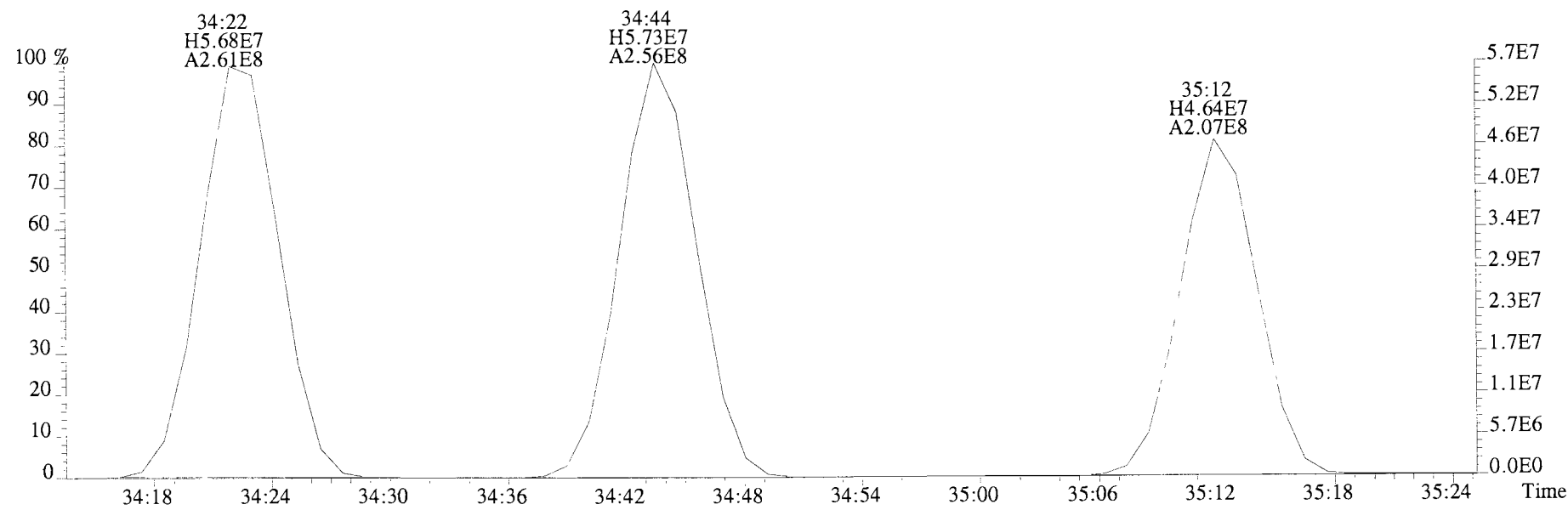
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3952.0,0.00%,F,F)



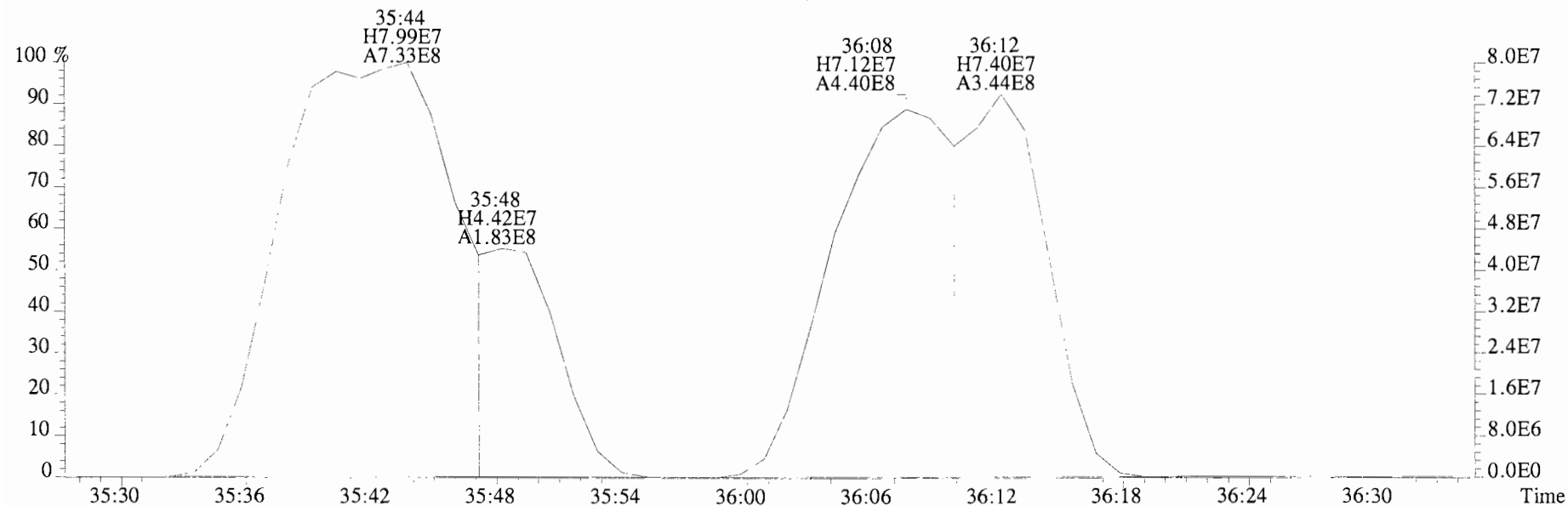
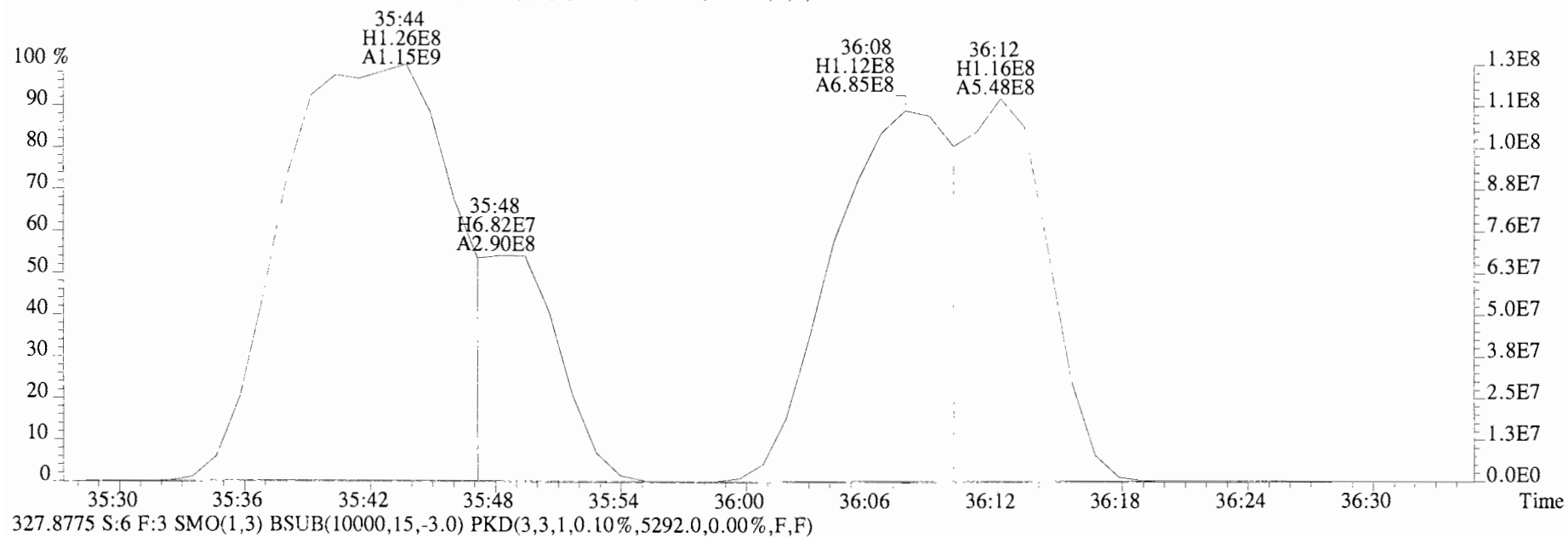
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



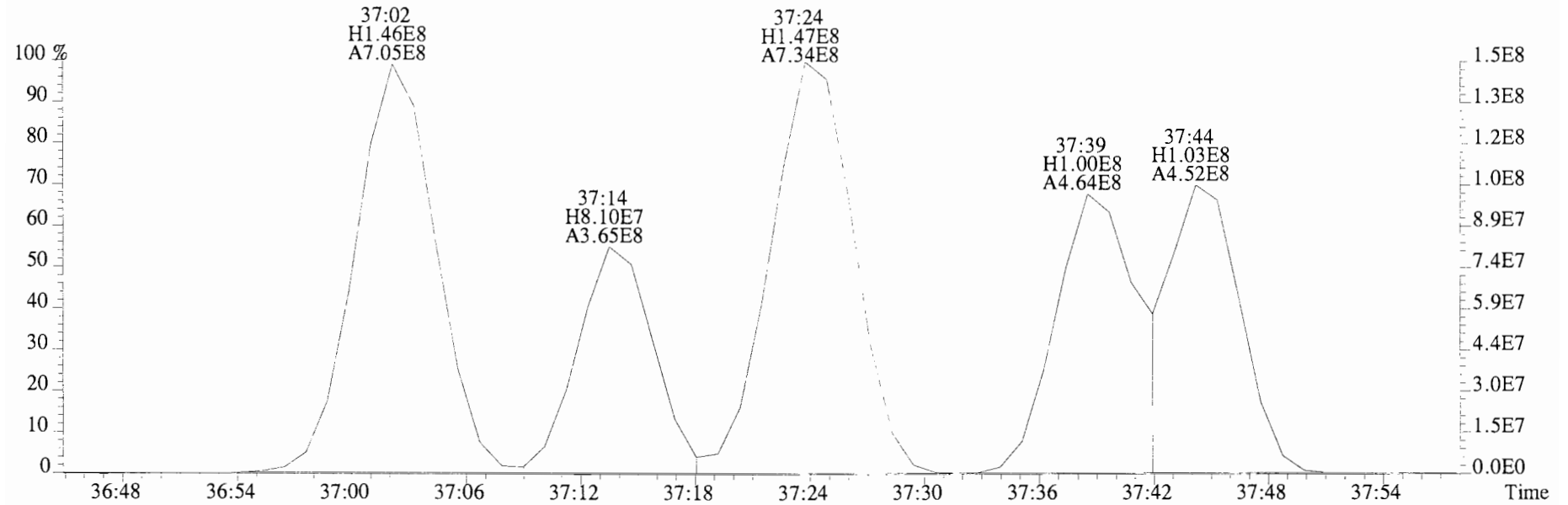
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5292.0,0.00%,F,F)



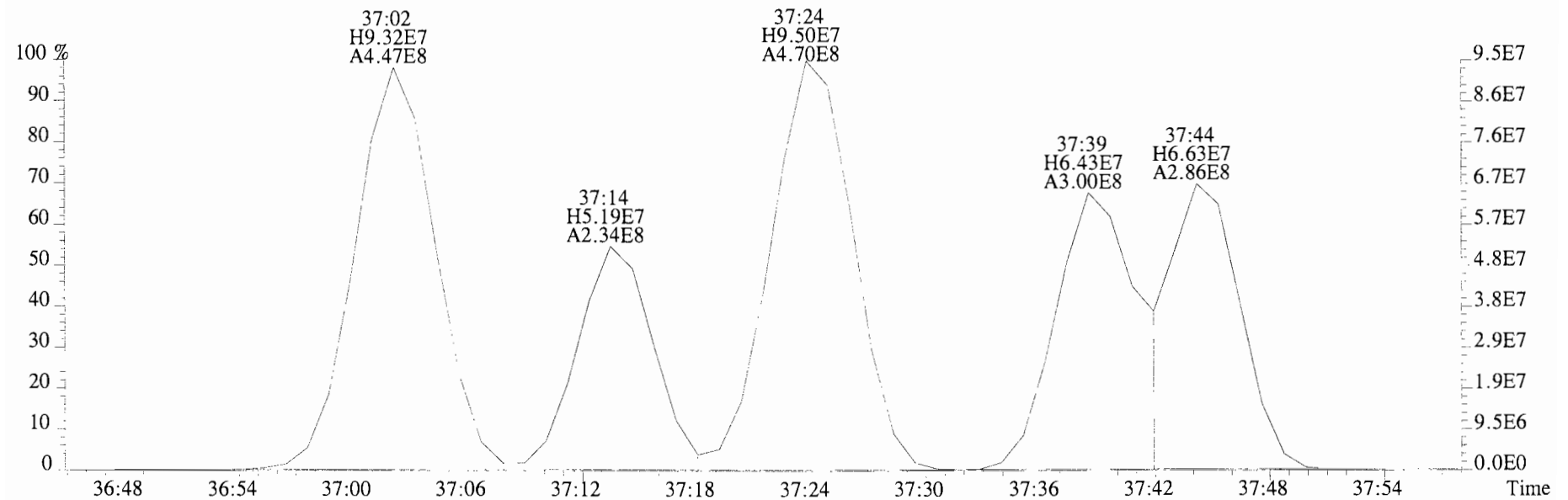
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)

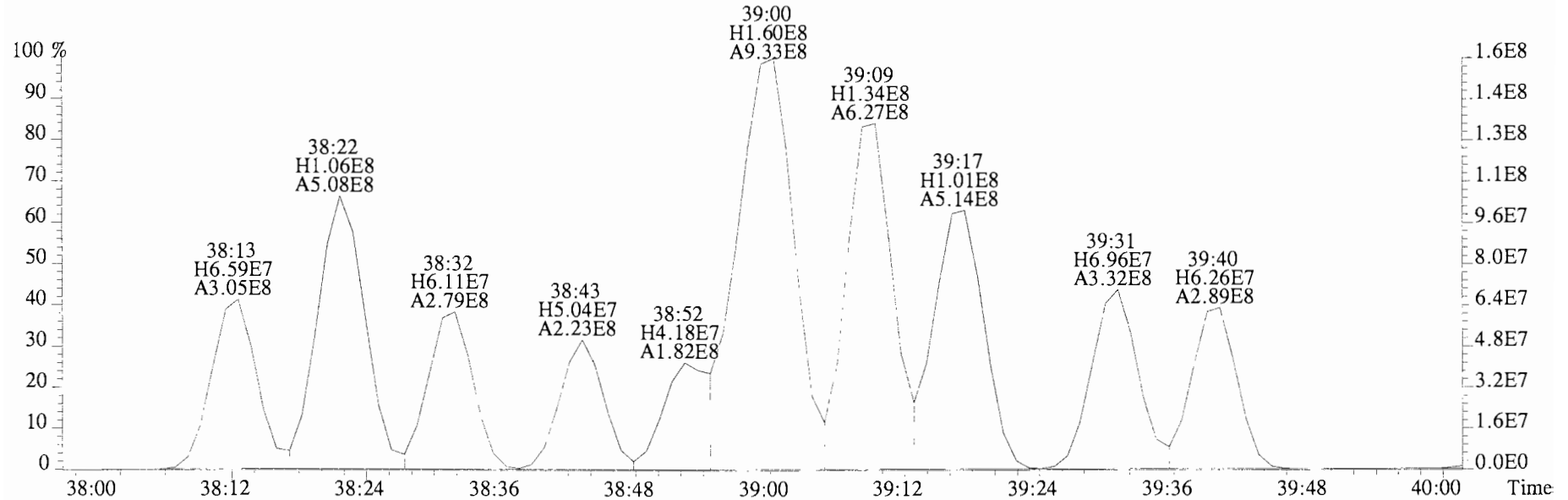
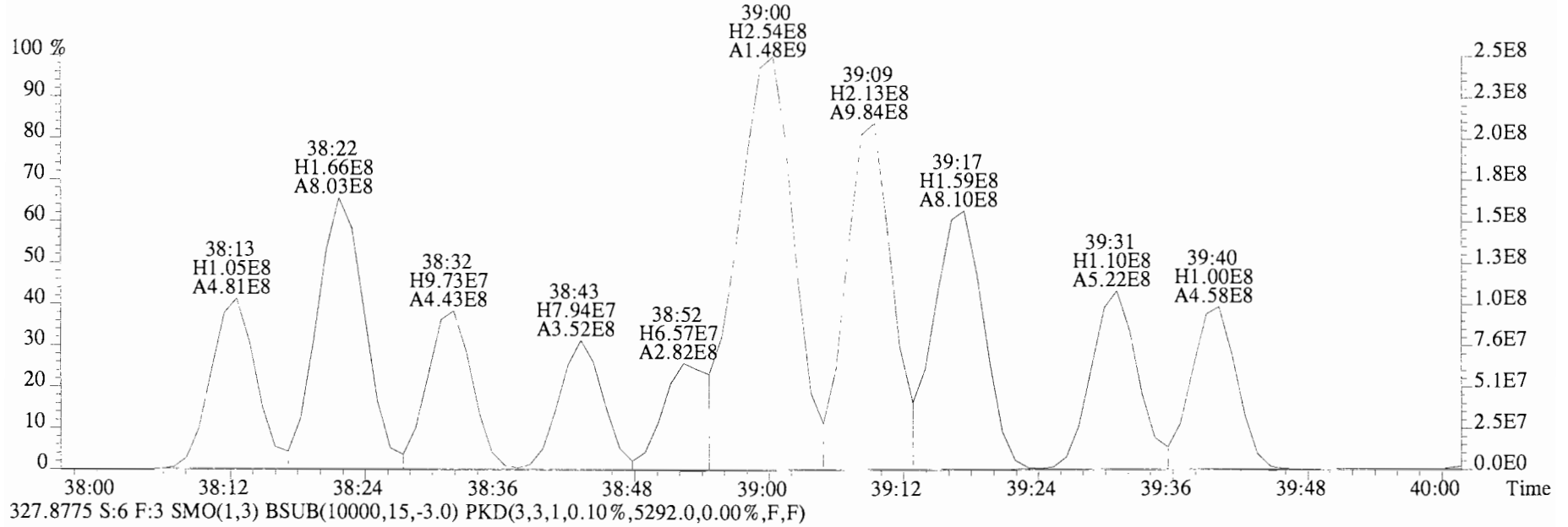


327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5292.0,0.00%,F,F)

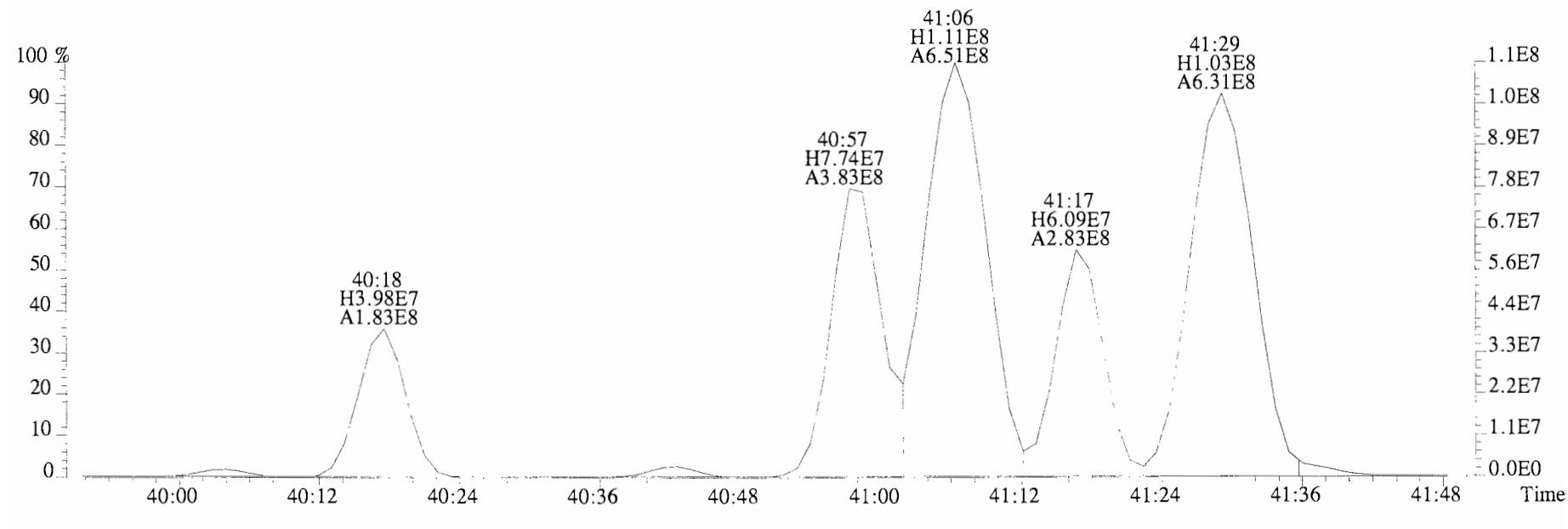
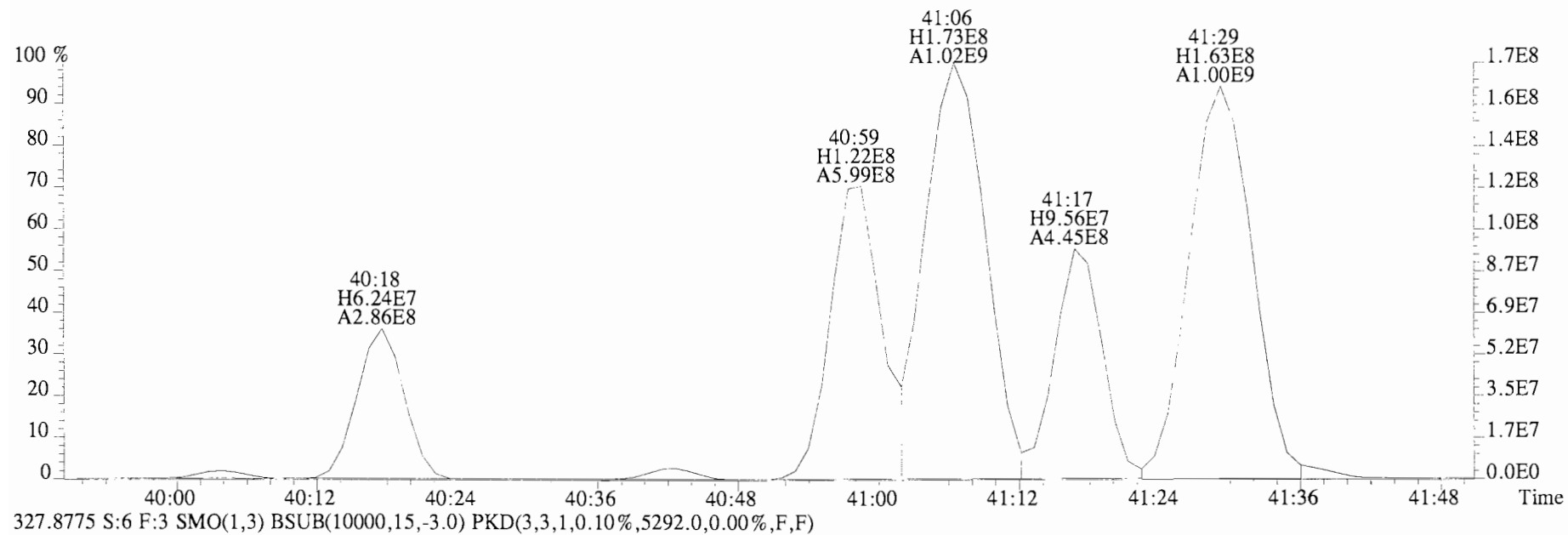




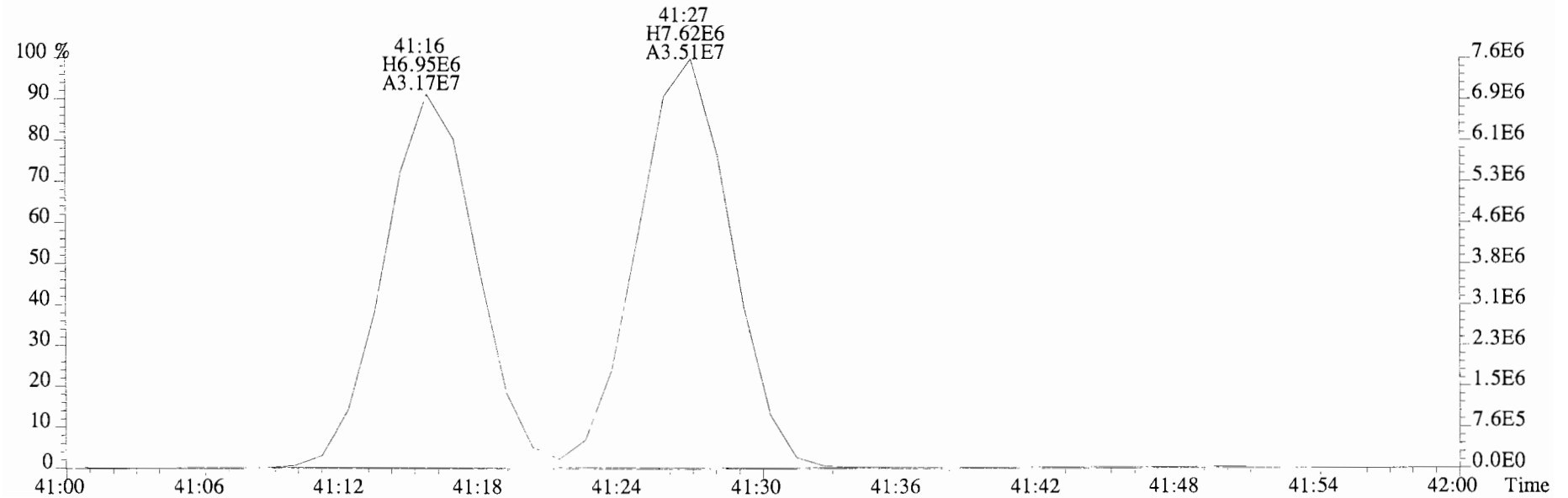
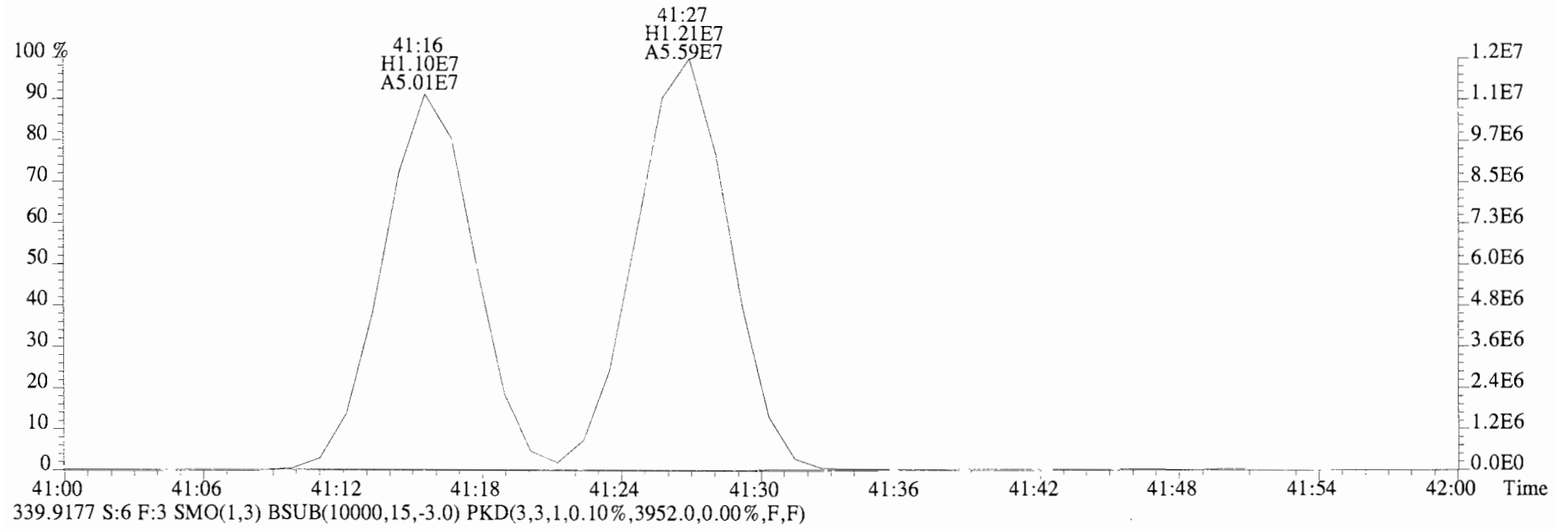
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



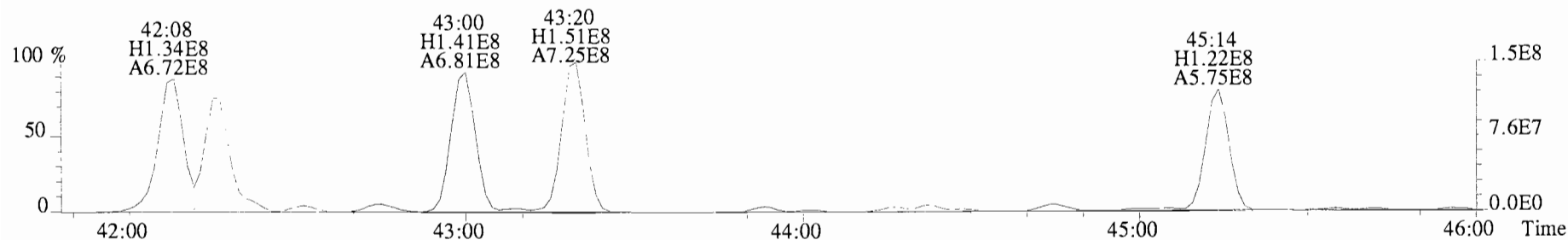
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8036.0,0.00%,F,F)



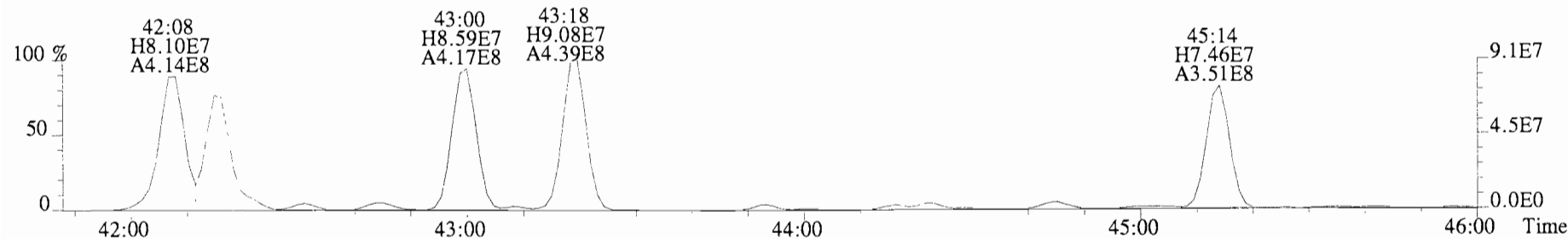
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4948.0,0.00%,F,F)



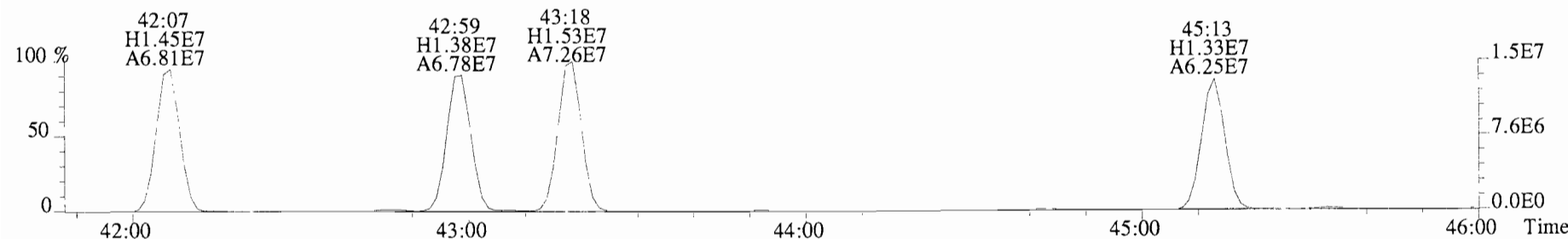
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,170056.0,0.00%,F,F)



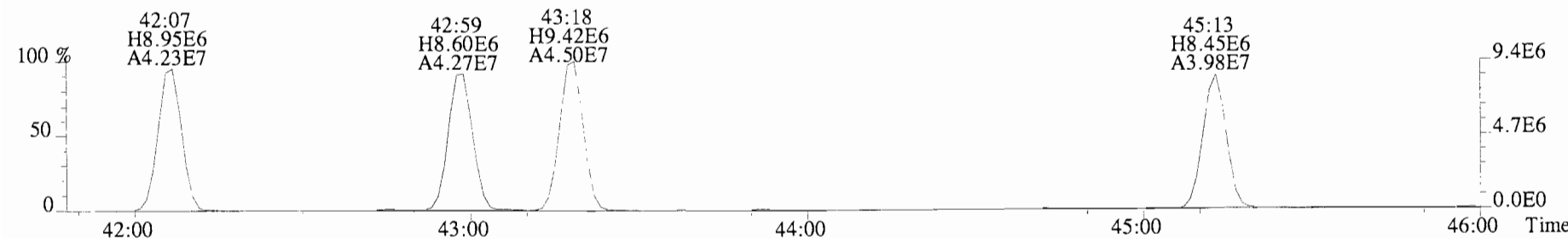
327.8775 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,102892.0,0.00%,F,F)



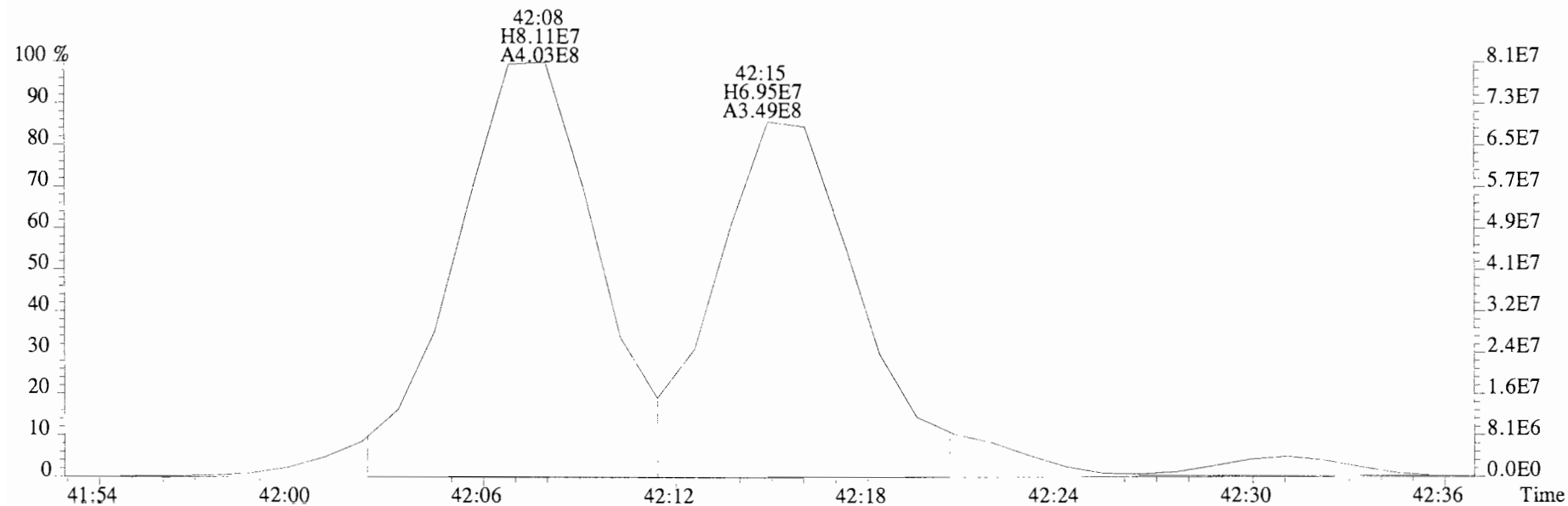
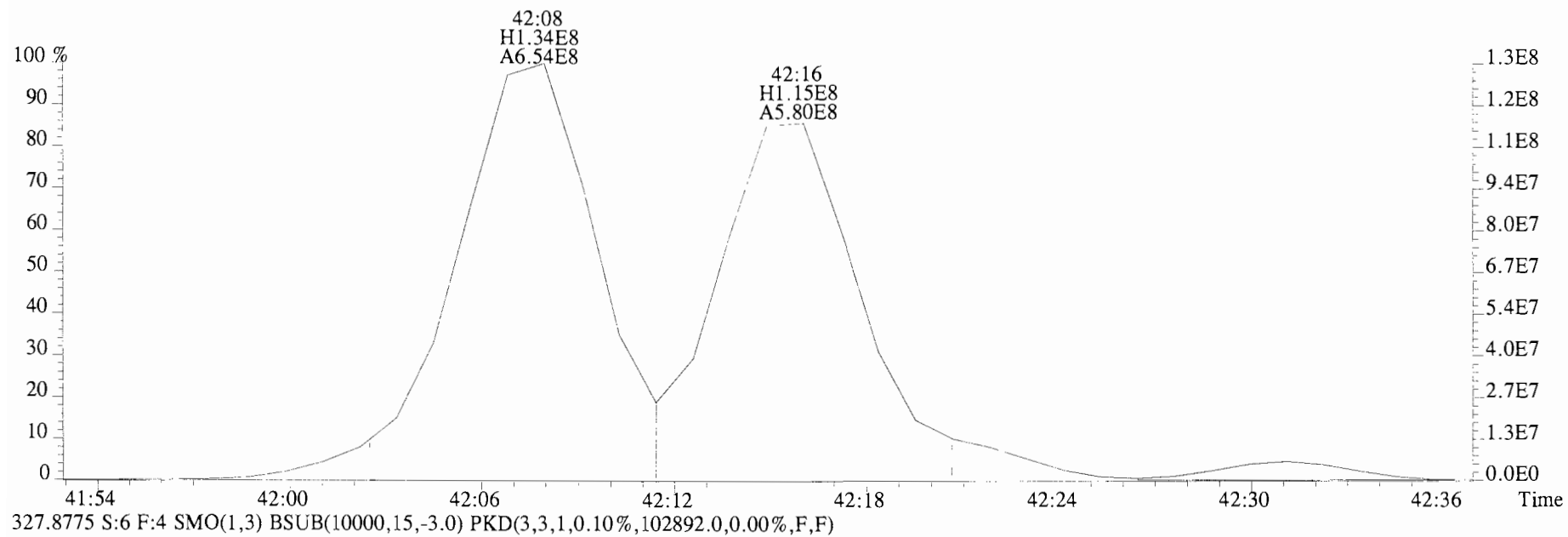
337.9207 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9288.0,0.00%,F,F)



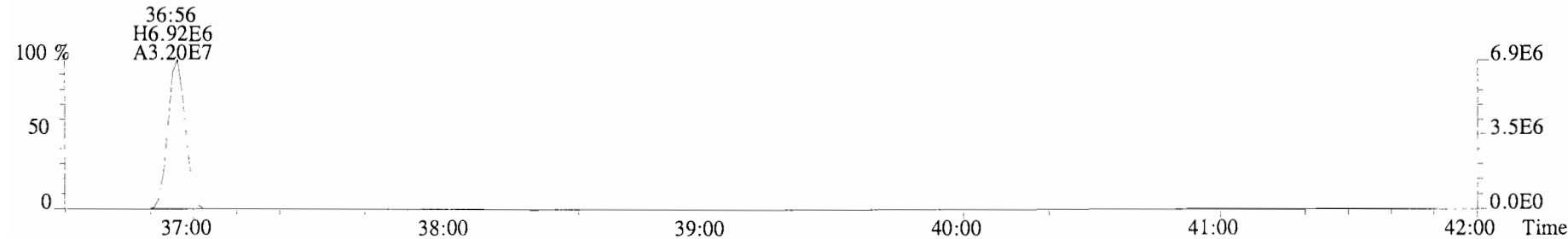
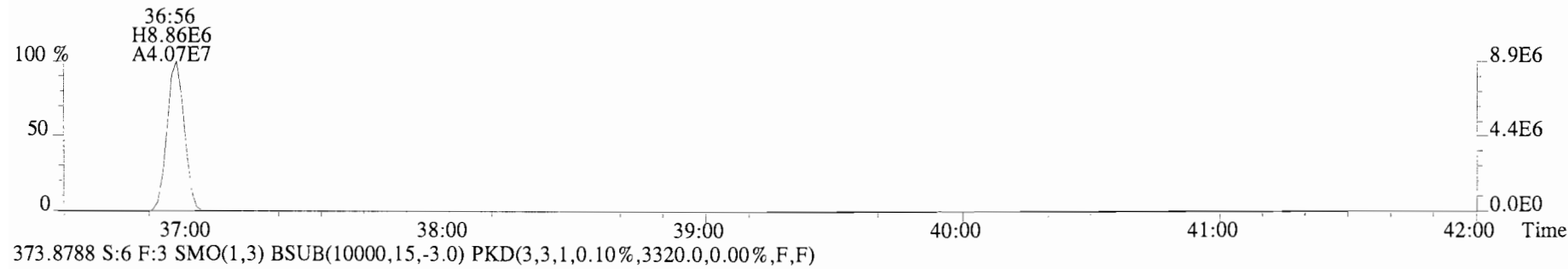
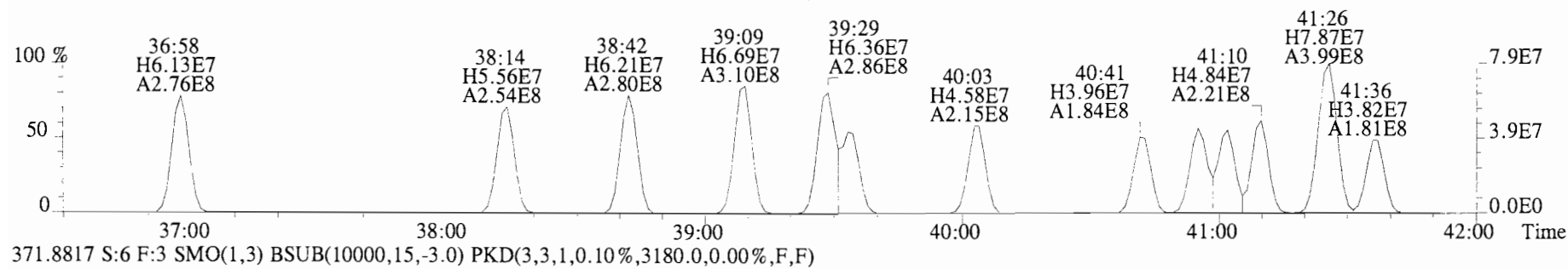
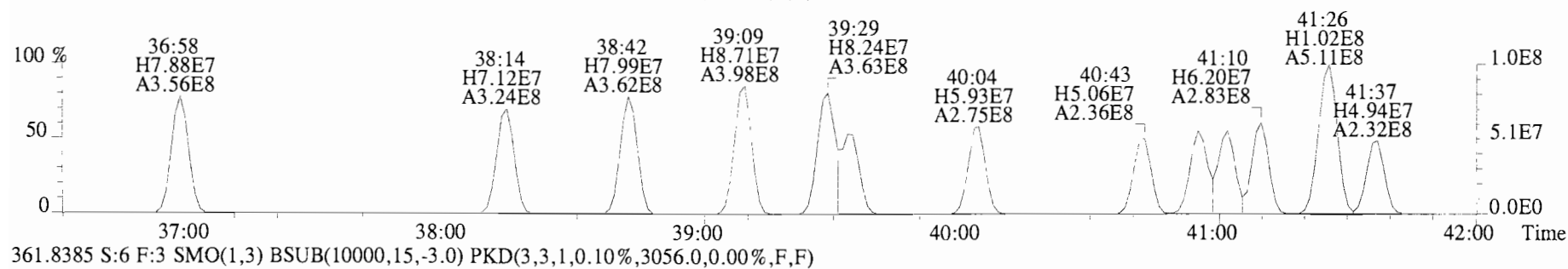
339.9177 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8072.0,0.00%,F,F)



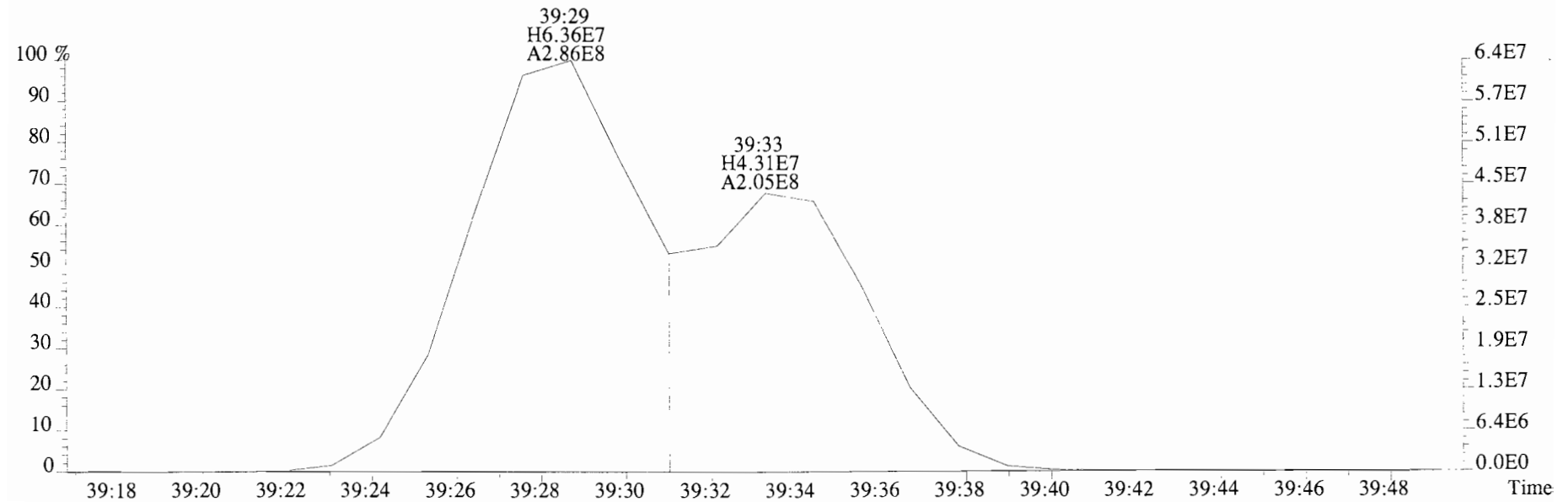
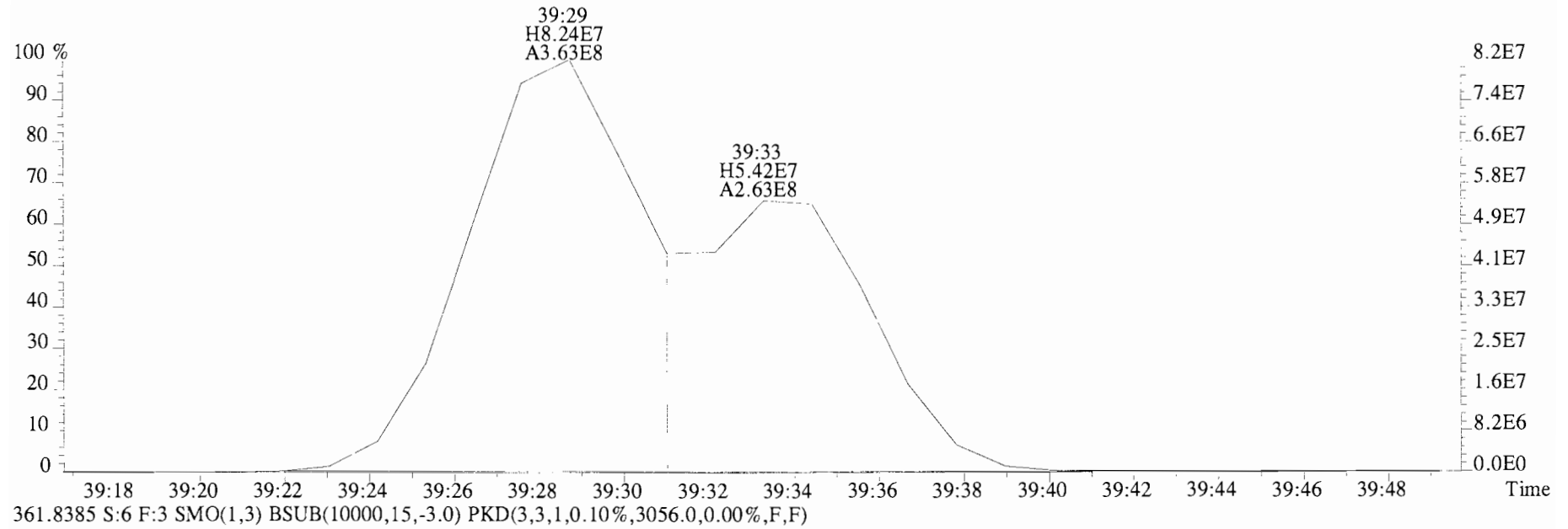
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,170056.0,0.00%,F,F)



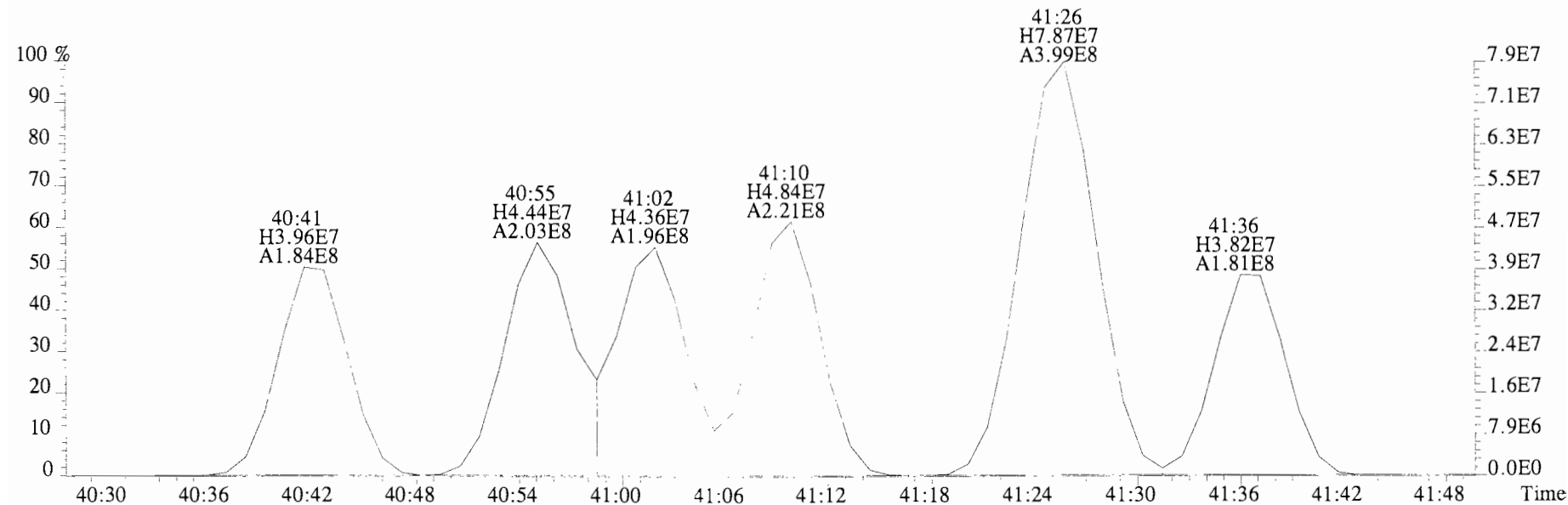
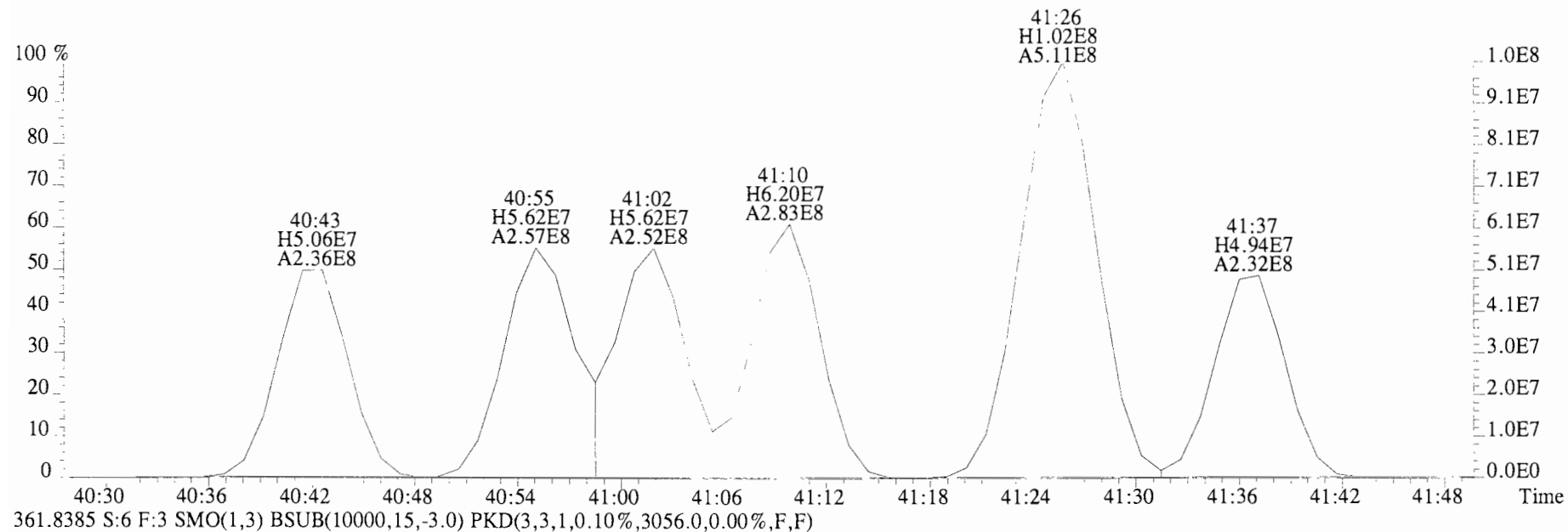
File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)



File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)

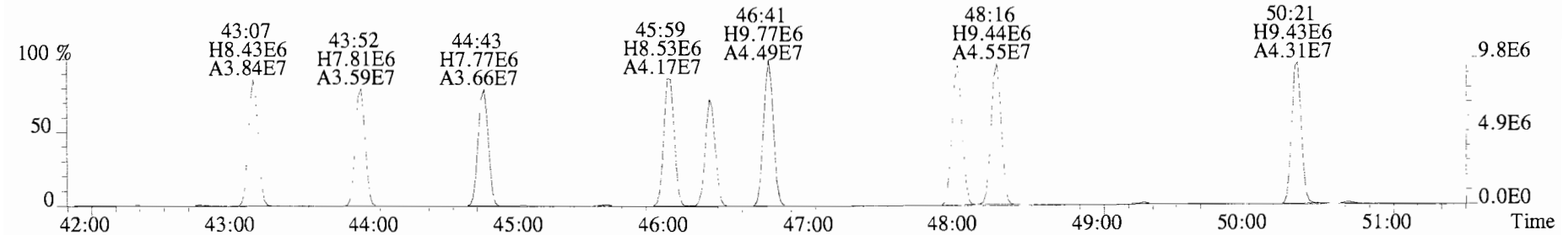
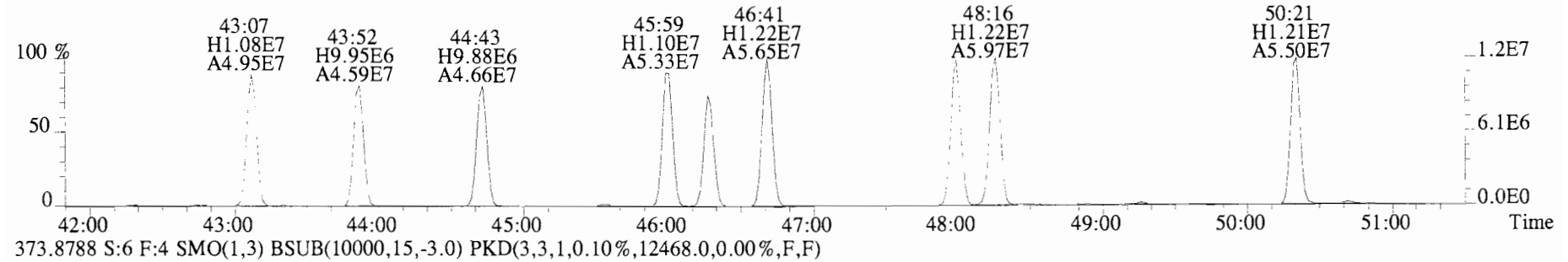
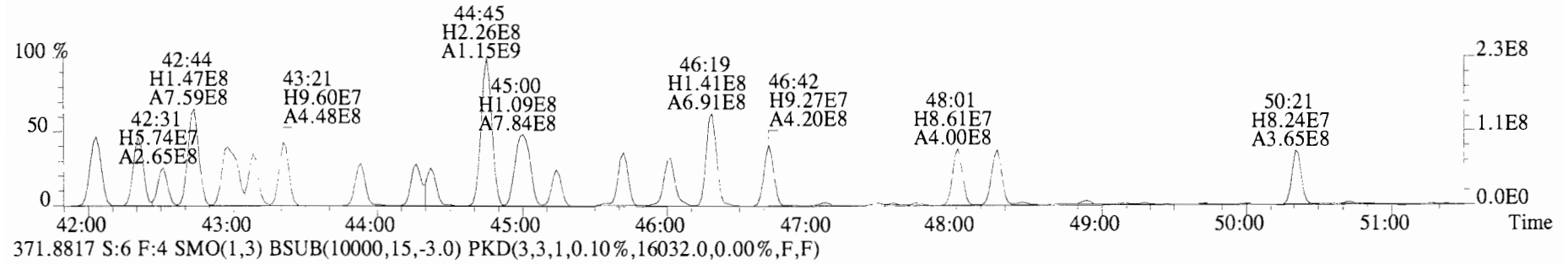
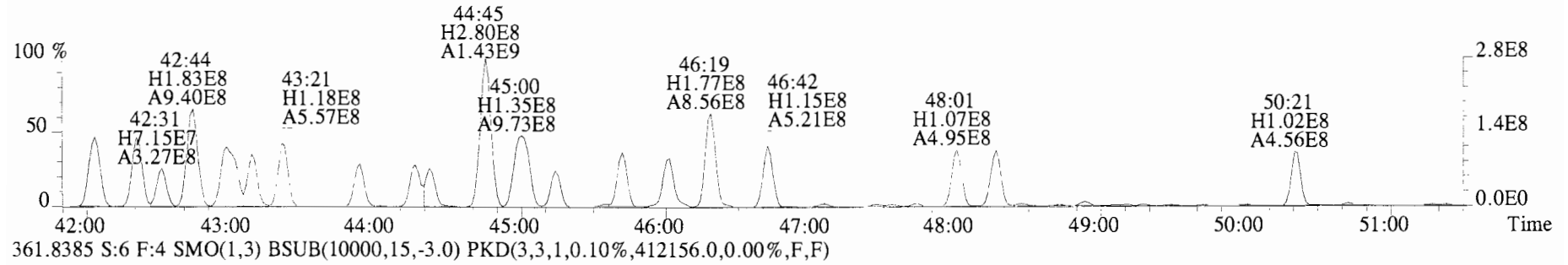


File:140623E2 #1-761 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)

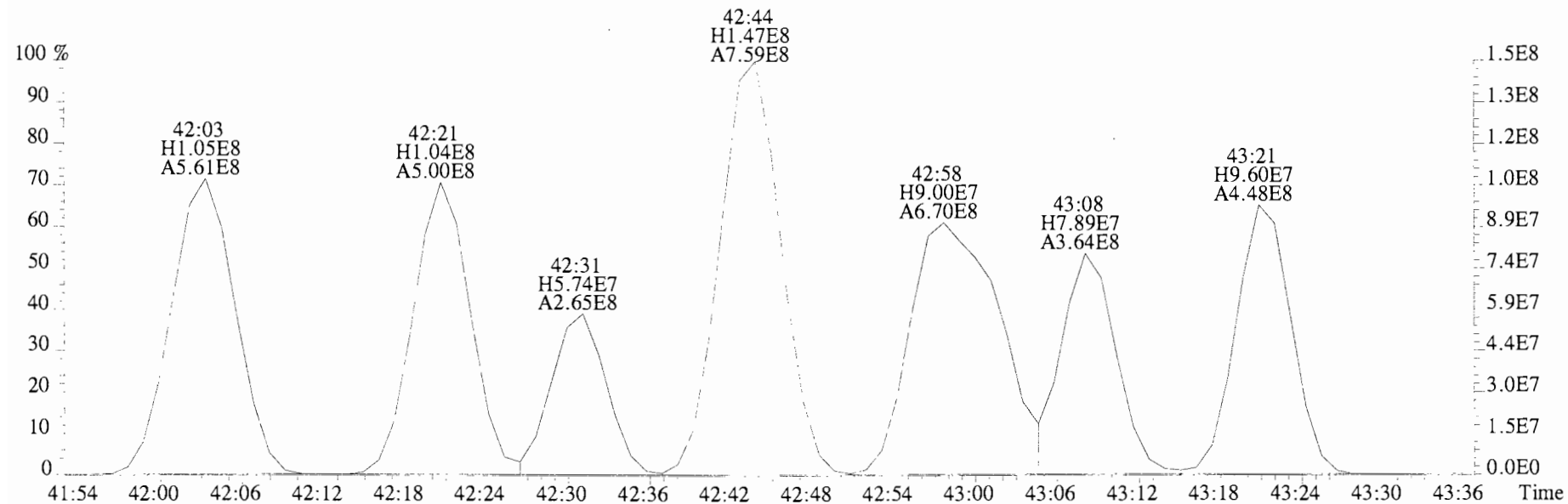
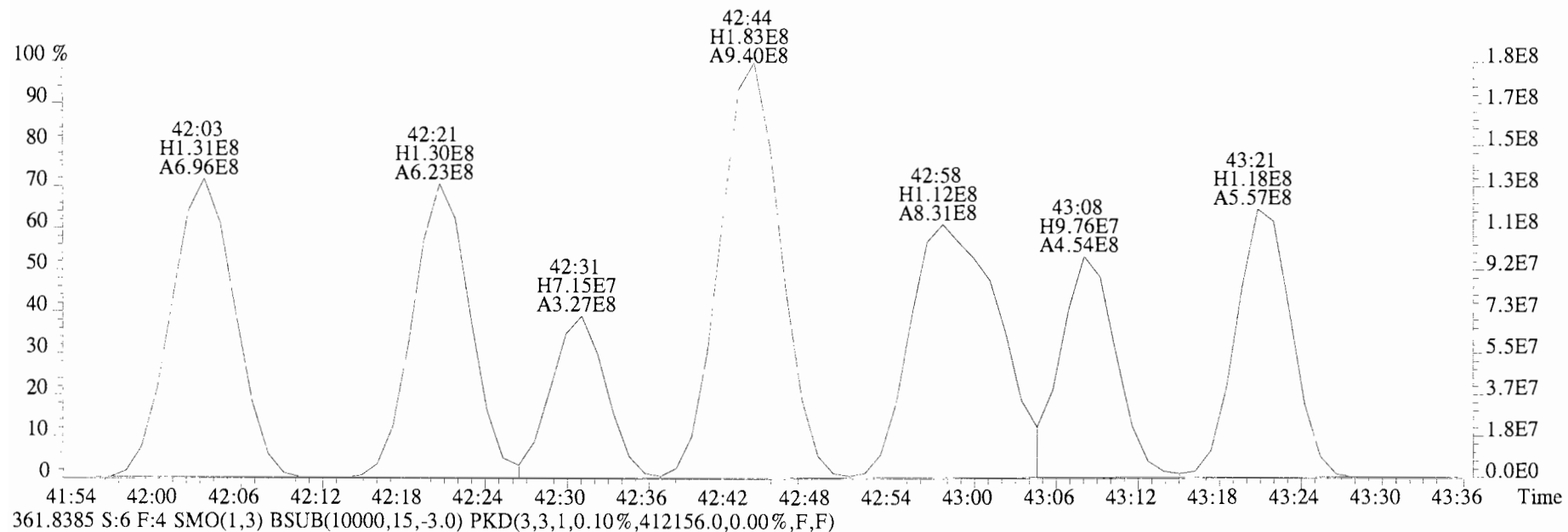




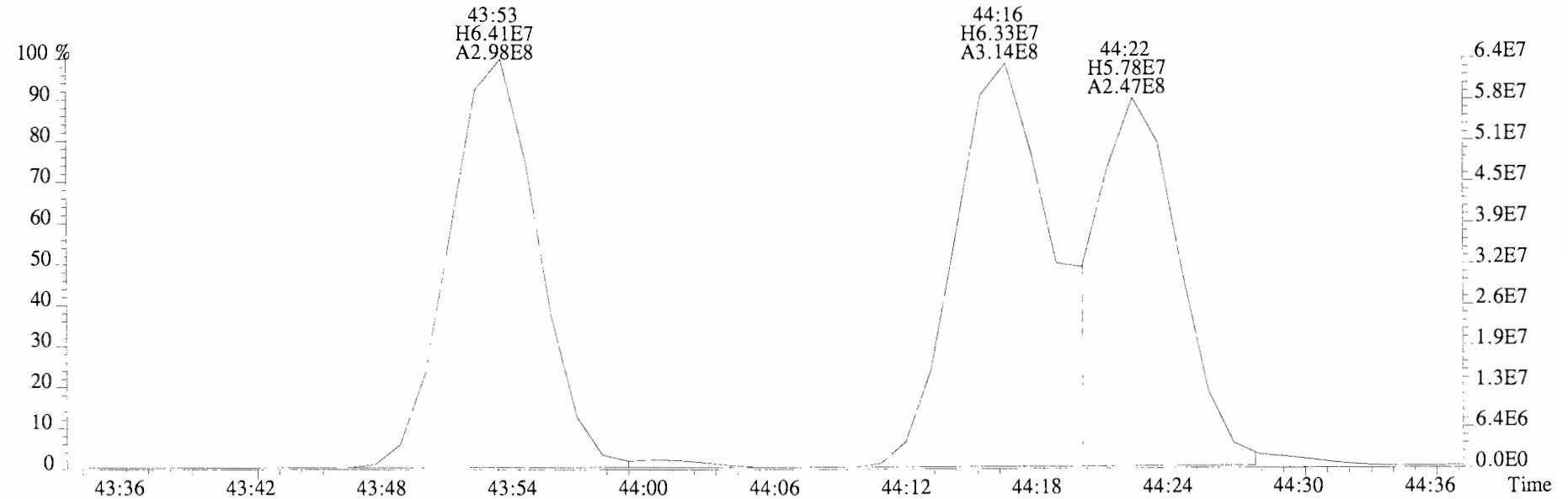
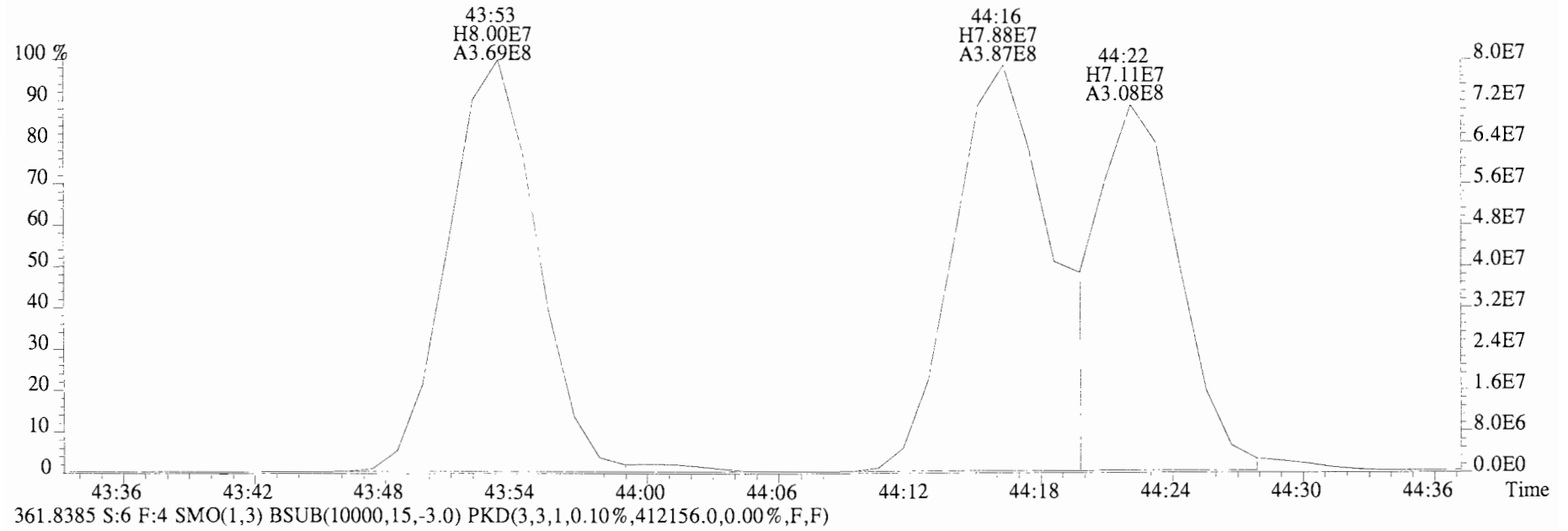
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,507736.0,0.00%,F,F)



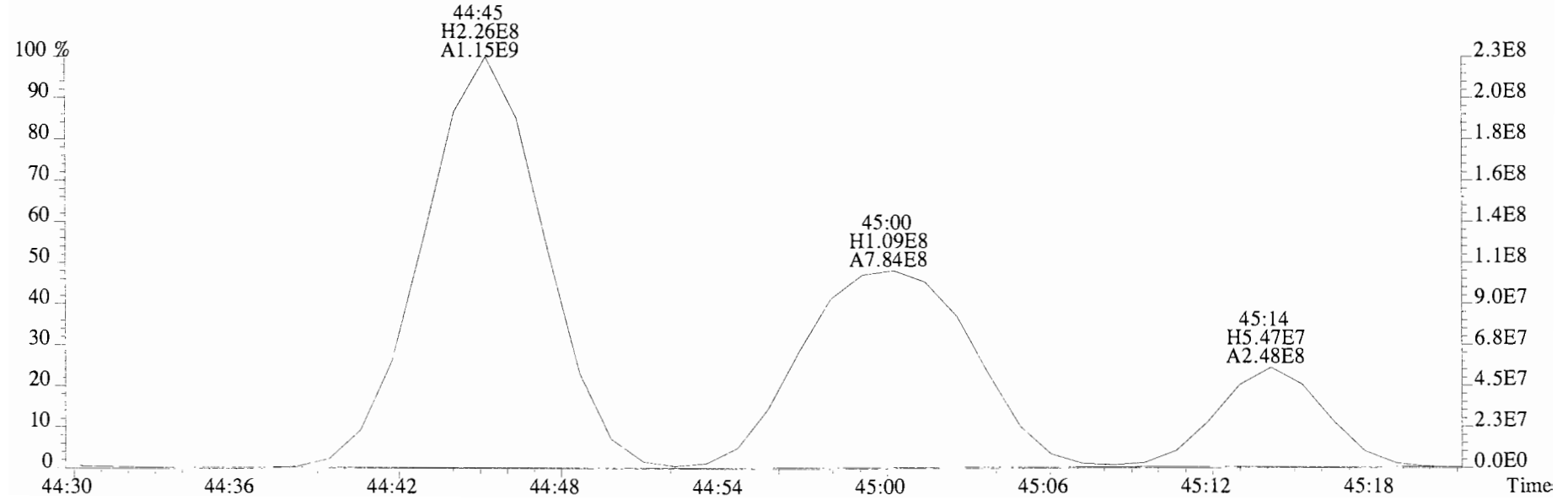
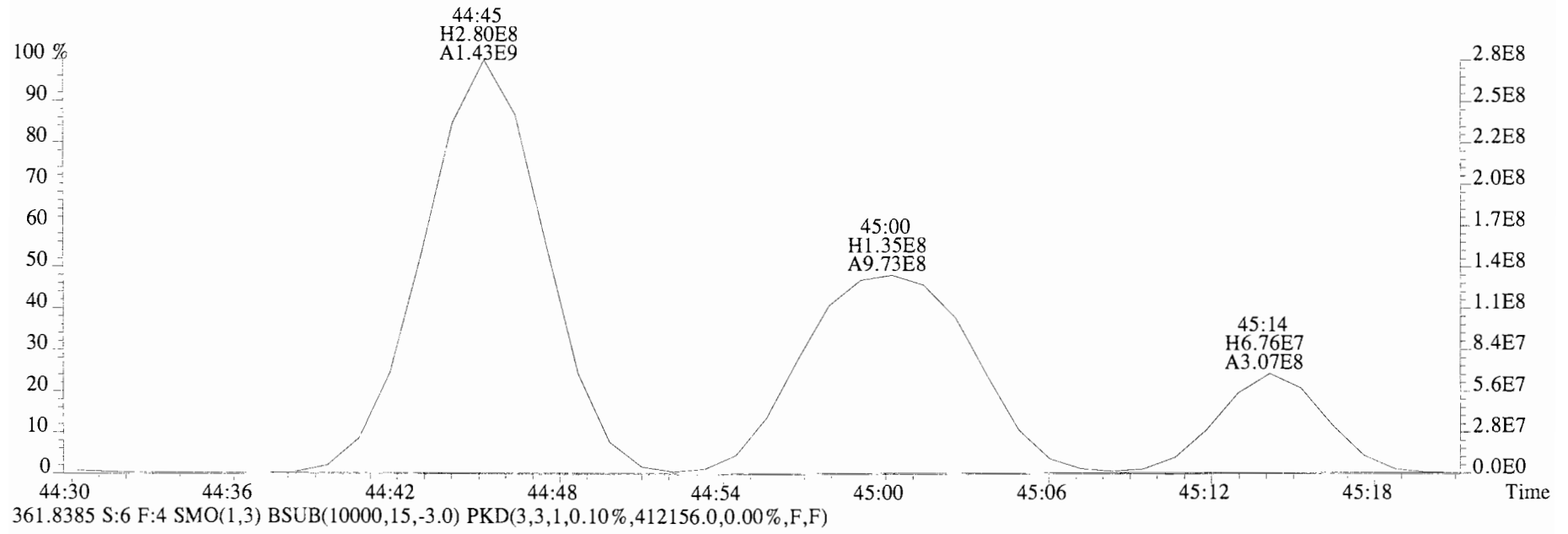
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,507736.0,0.00%,F,F)



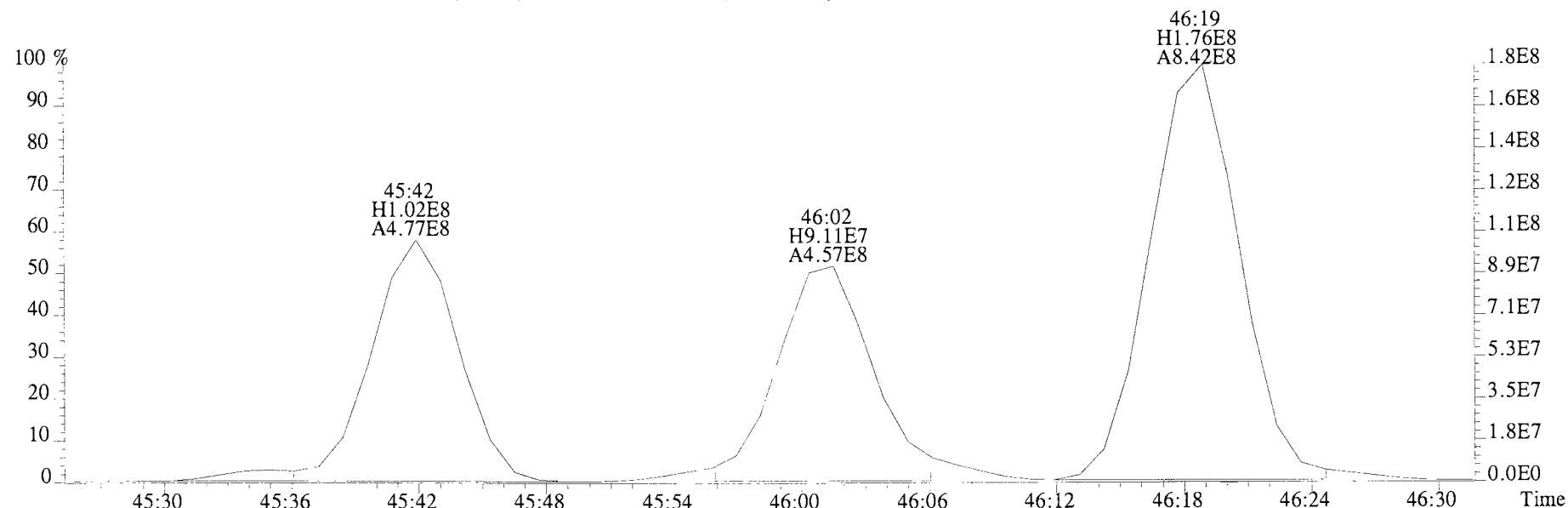
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,507736.0,0.00%,F,F)



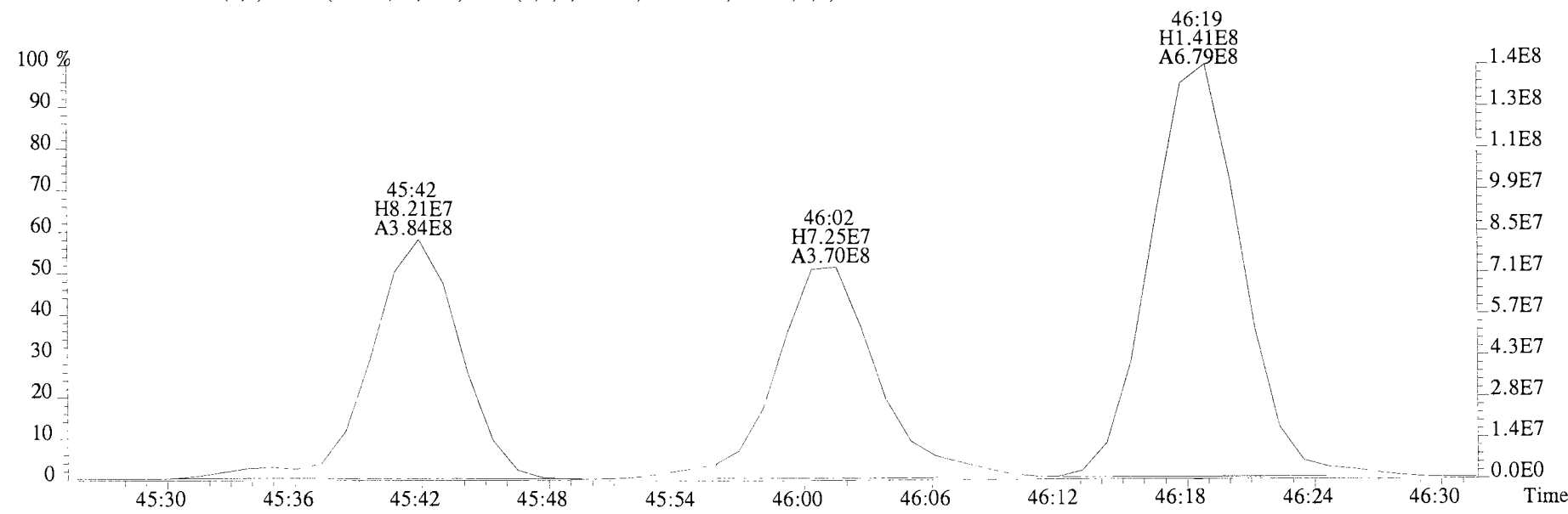
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,507736.0,0.00%,F,F)



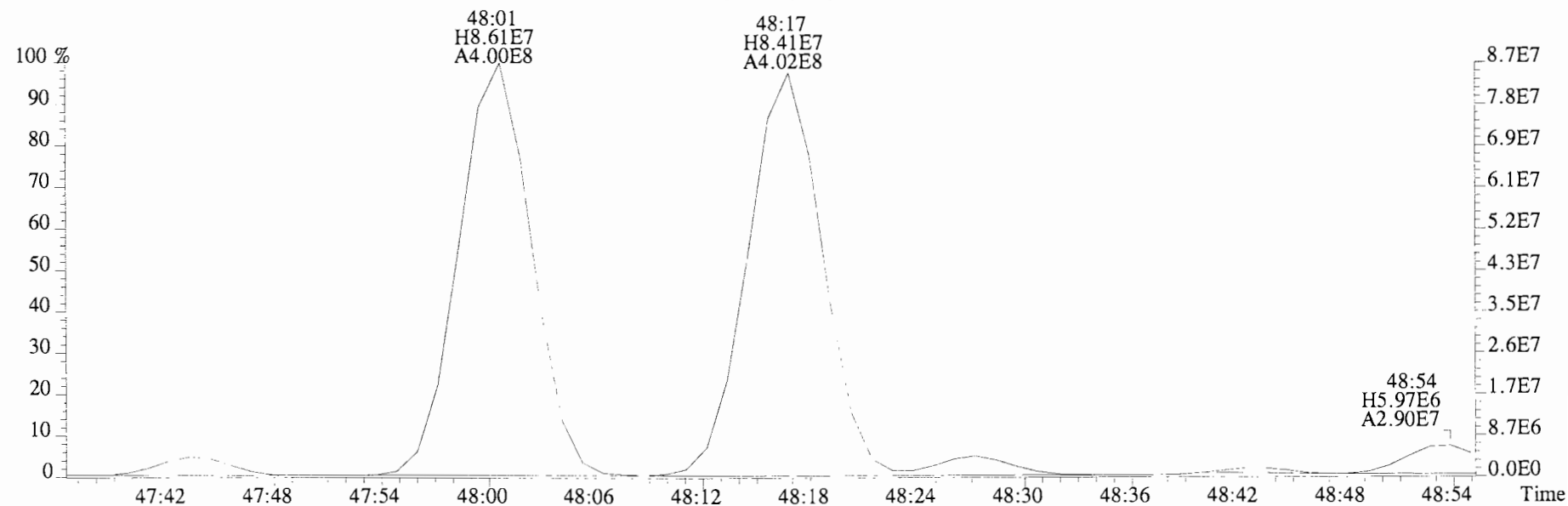
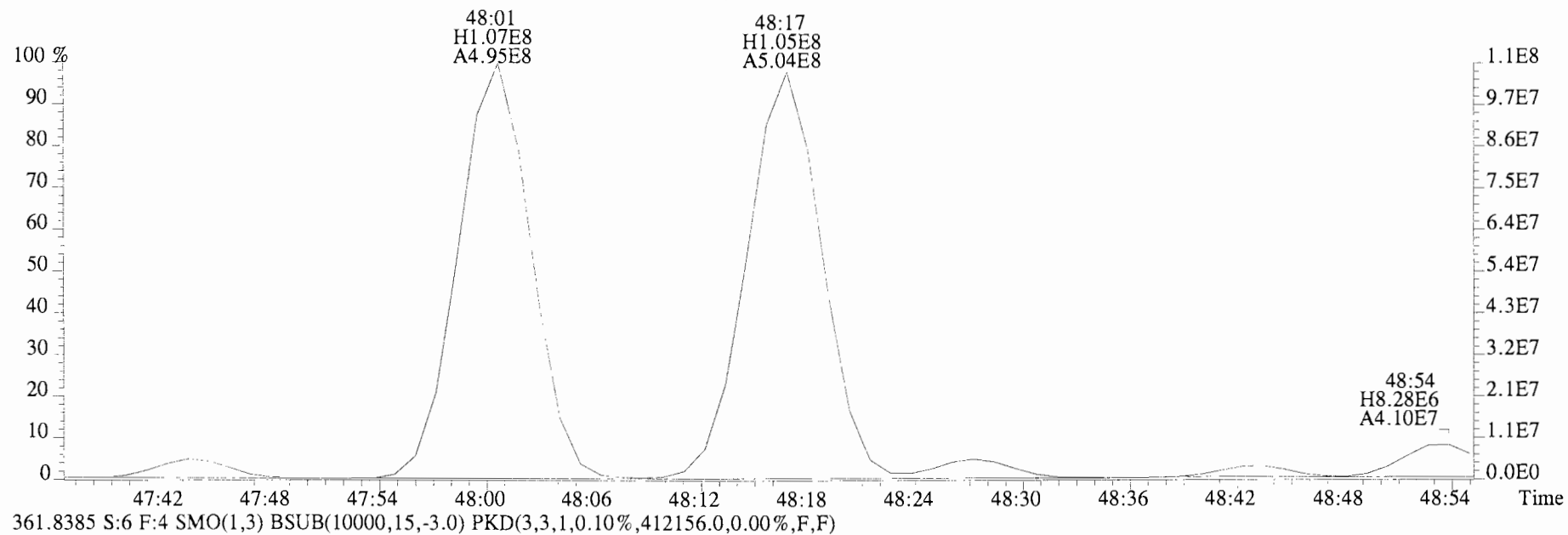
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,507736.0,0.00%,F,F)



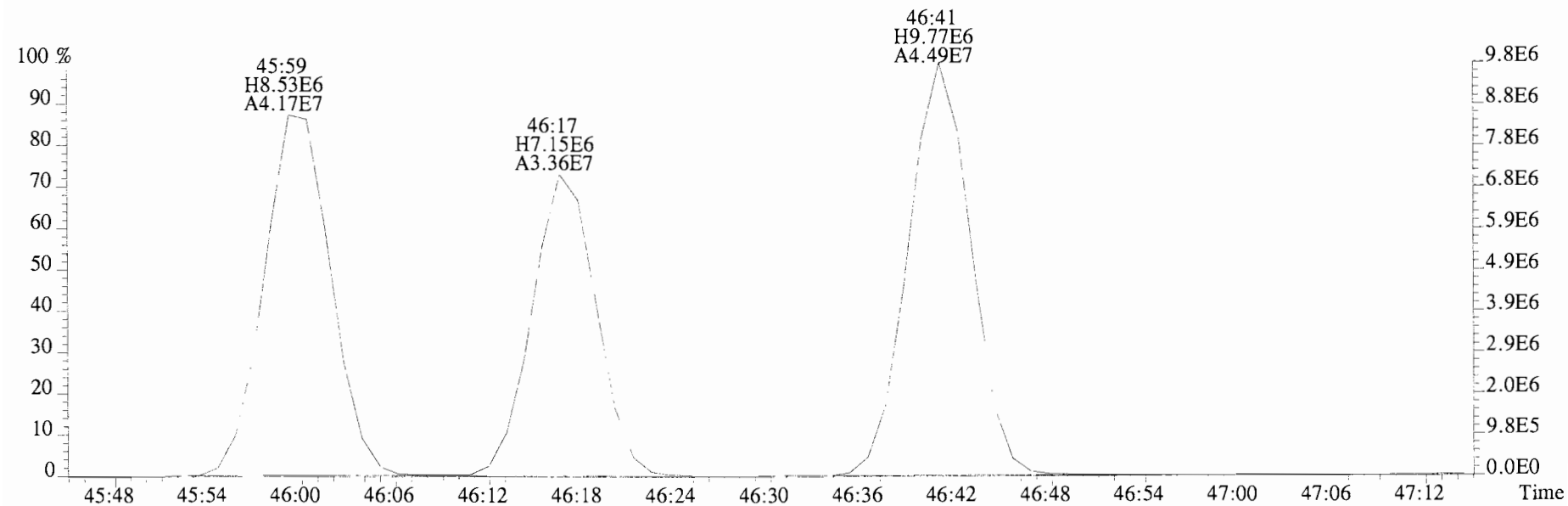
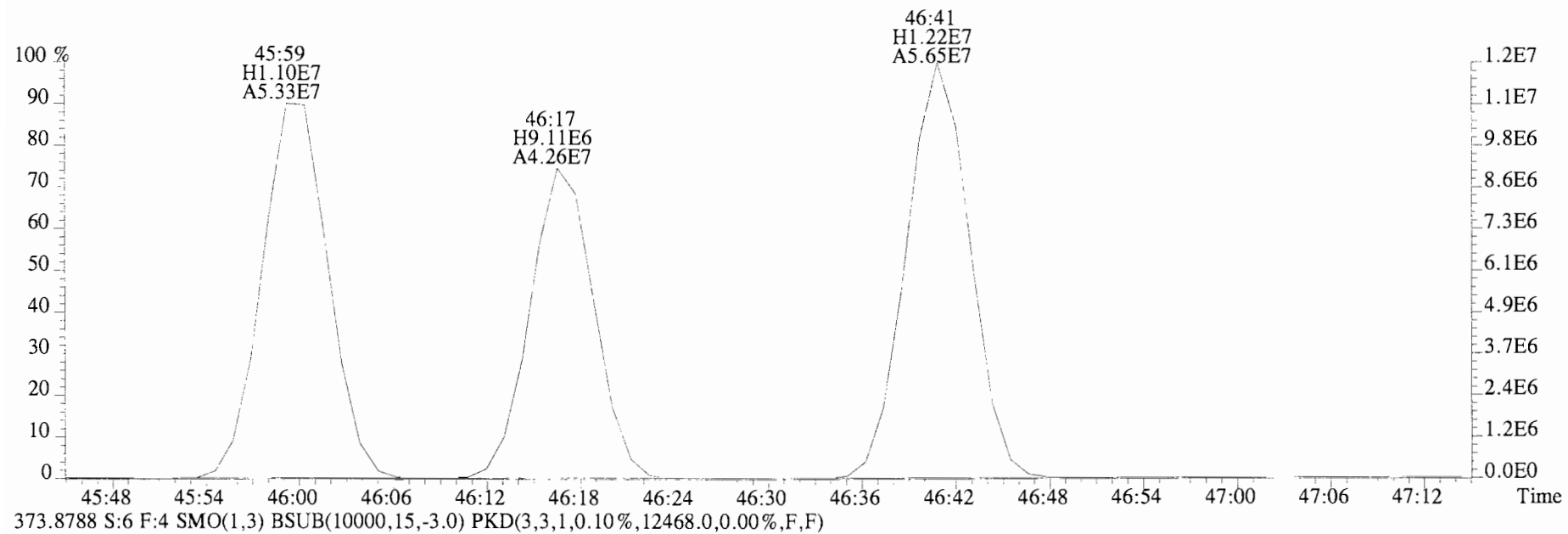
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,412156.0,0.00%,F,F)



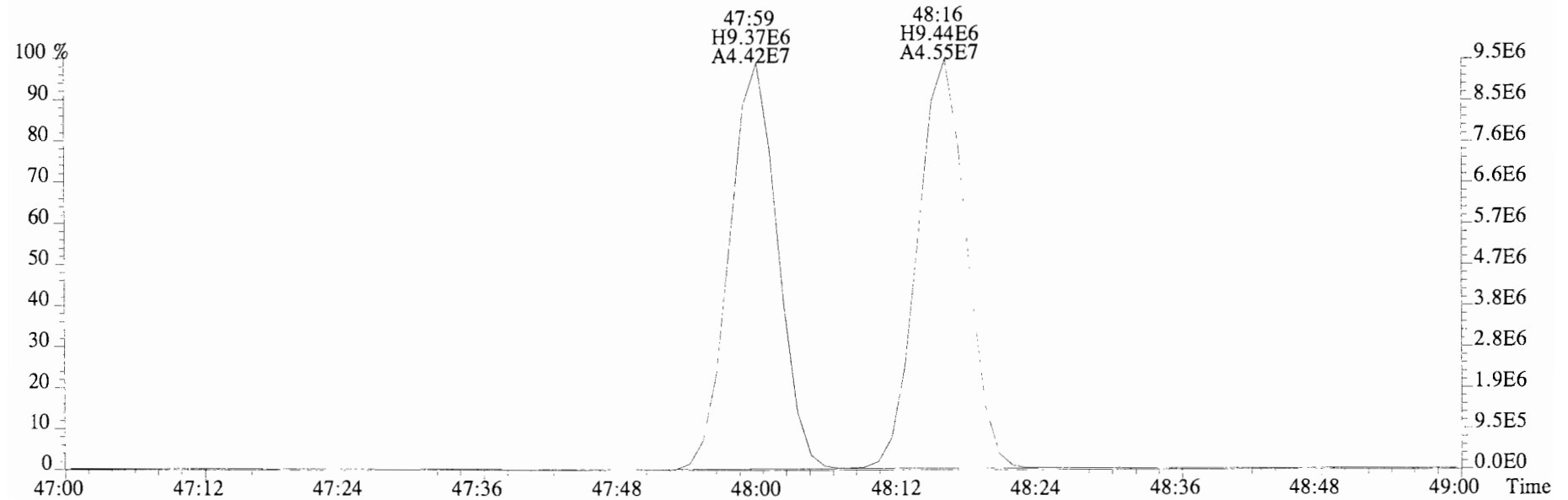
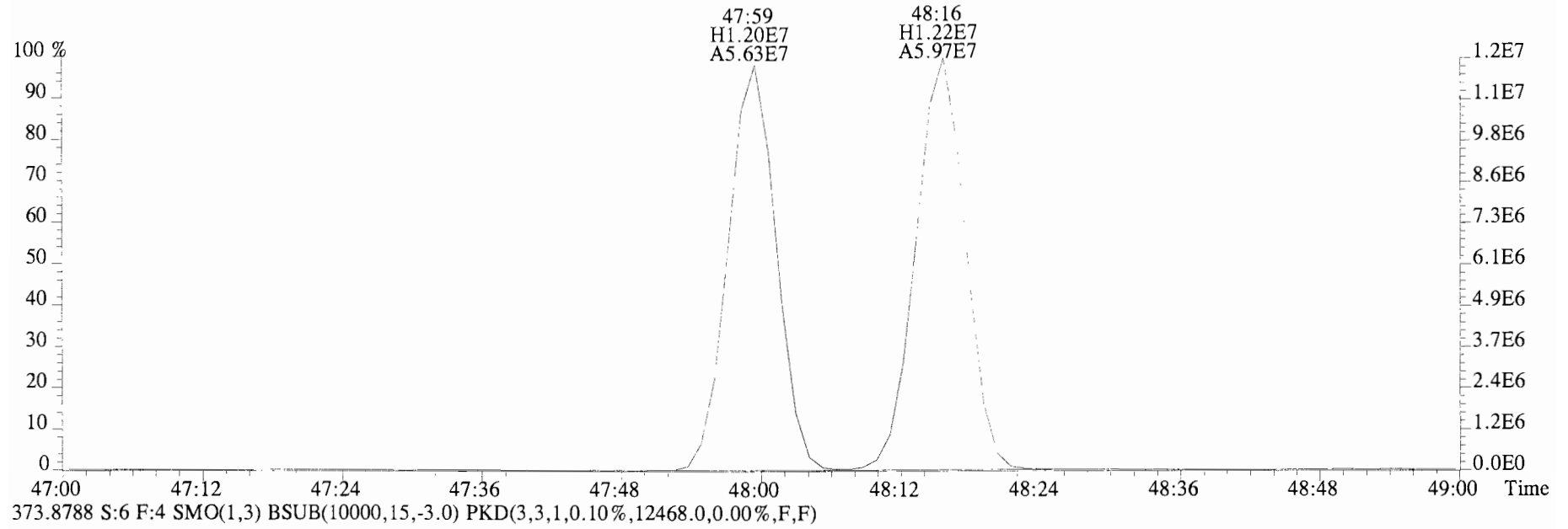
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,507736.0,0.00%,F,F)



File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16032.0,0.00%,F,F)

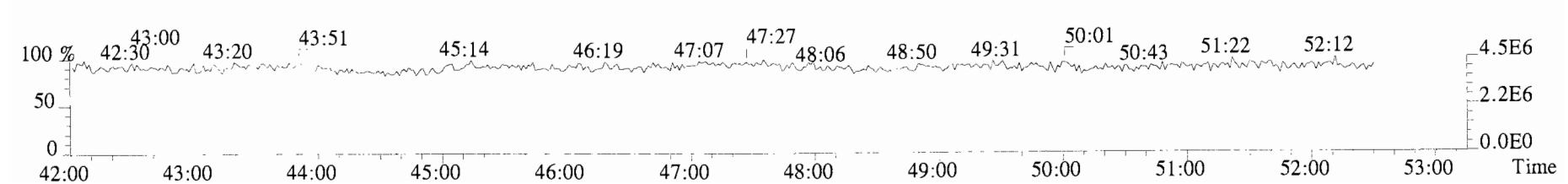
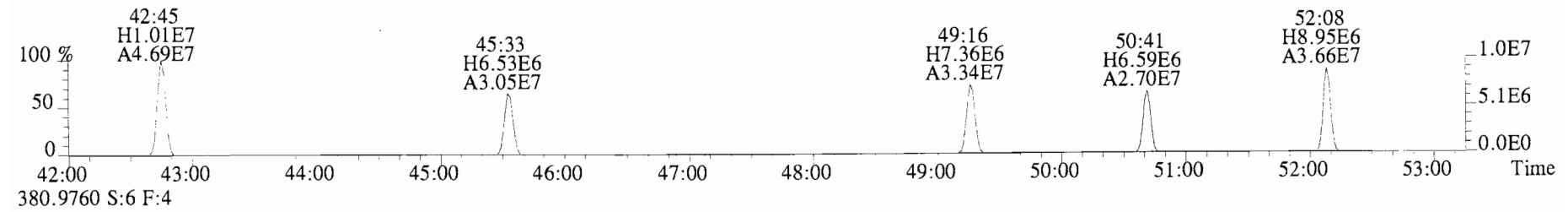
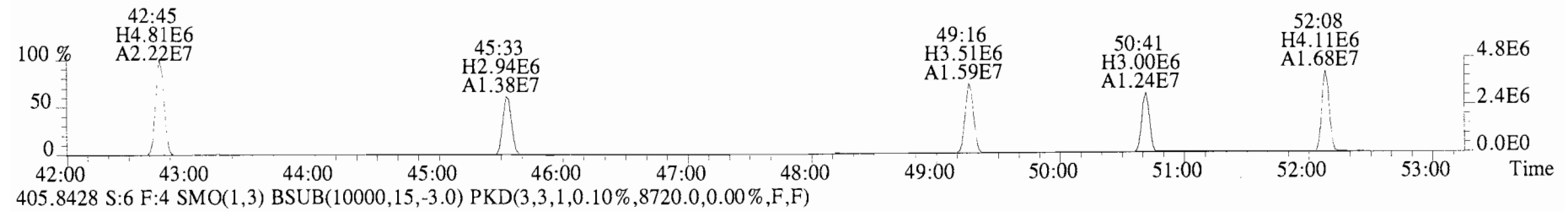
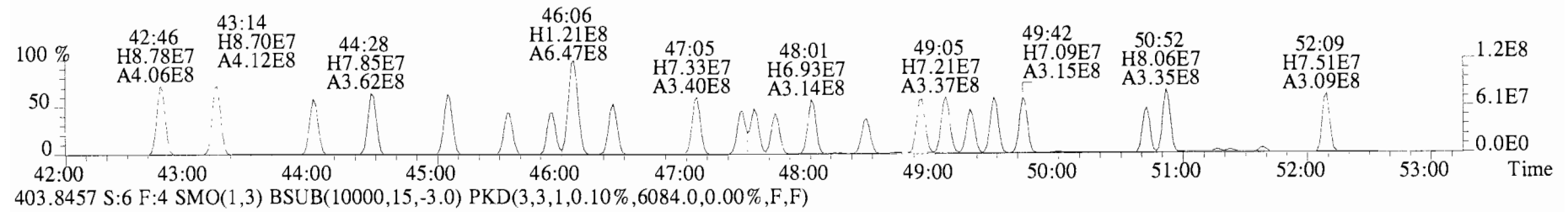
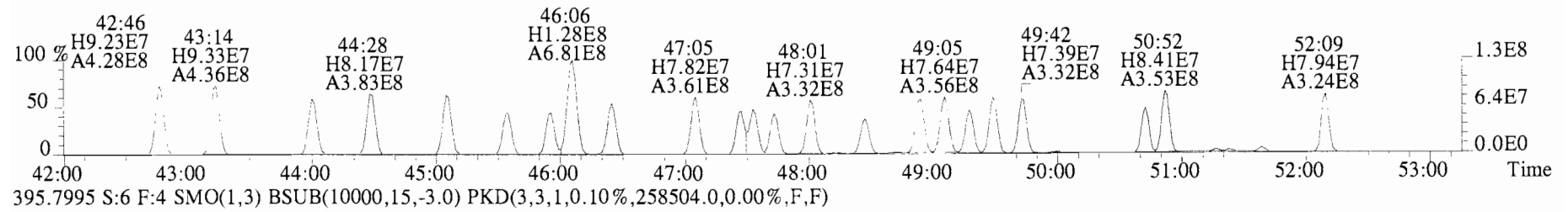


File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,16032.0,0.00%,F,F)

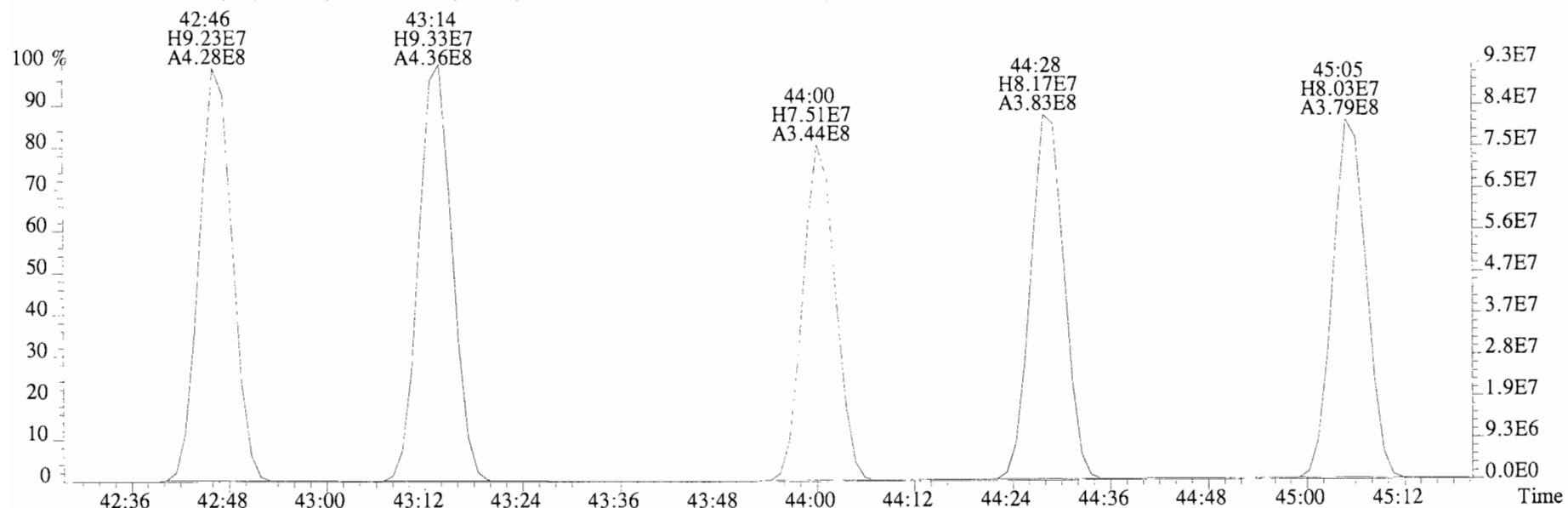




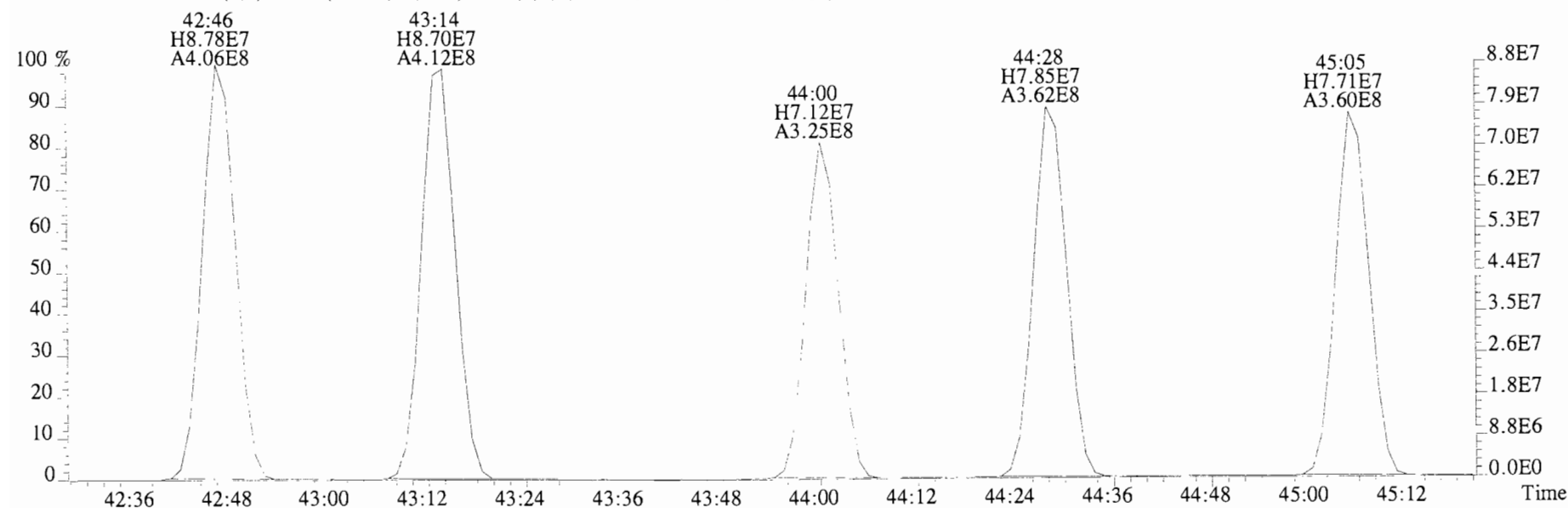
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,278692.0,0.00%,F,F)



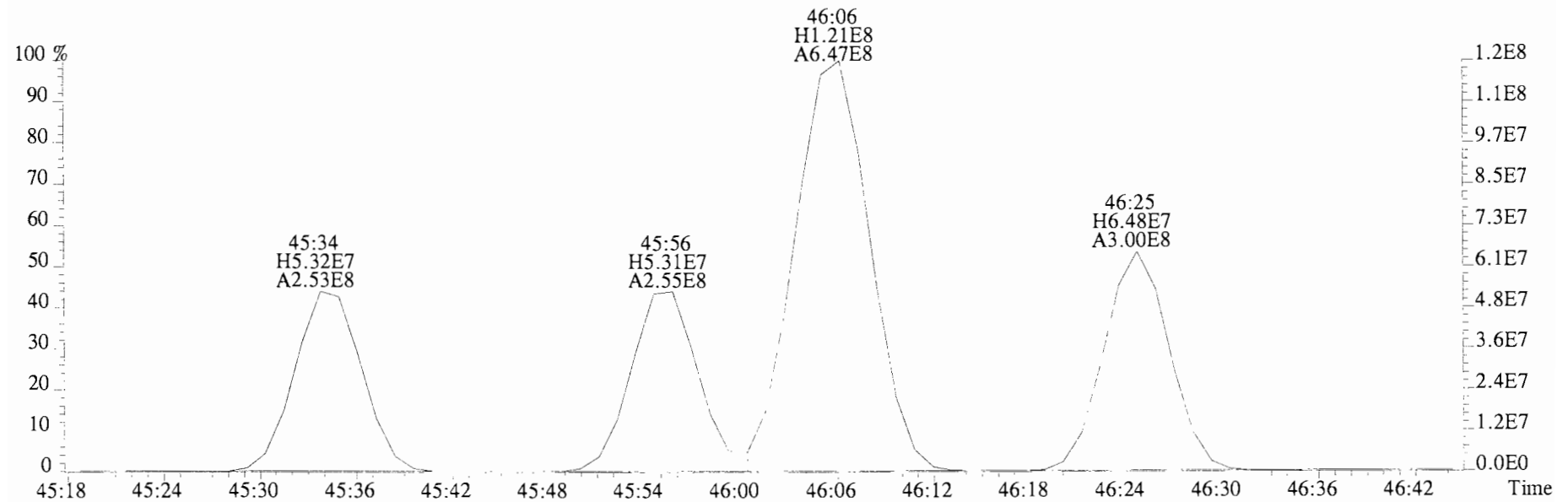
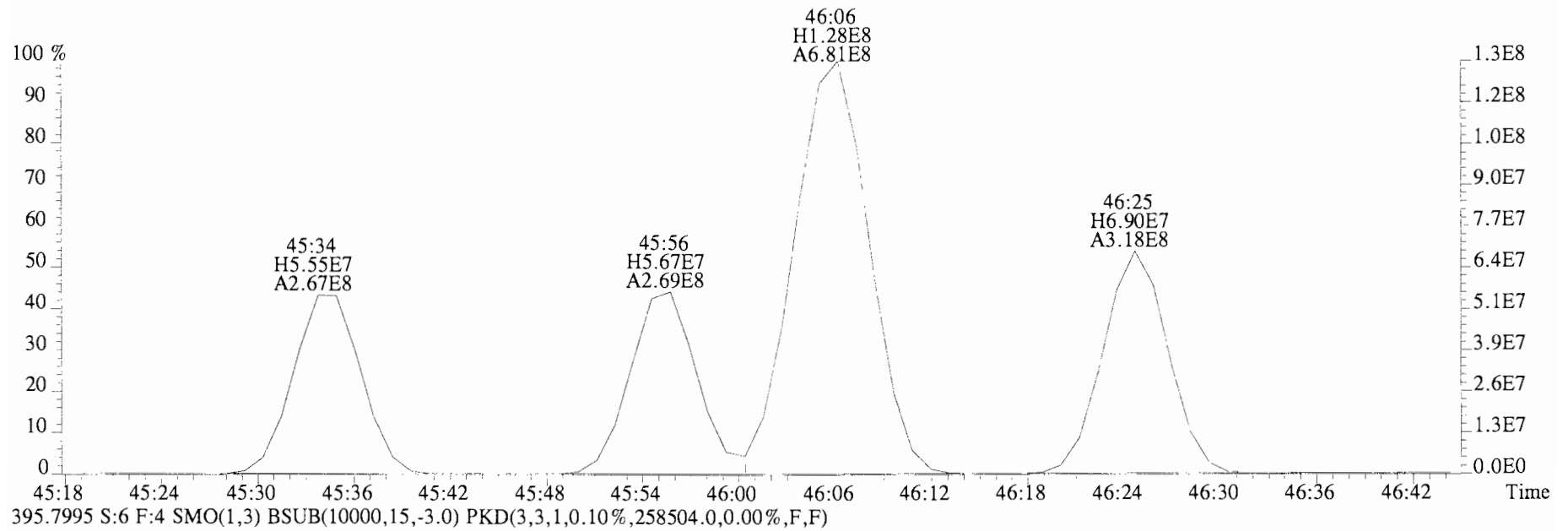
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,278692.0,0.00%,F,F)



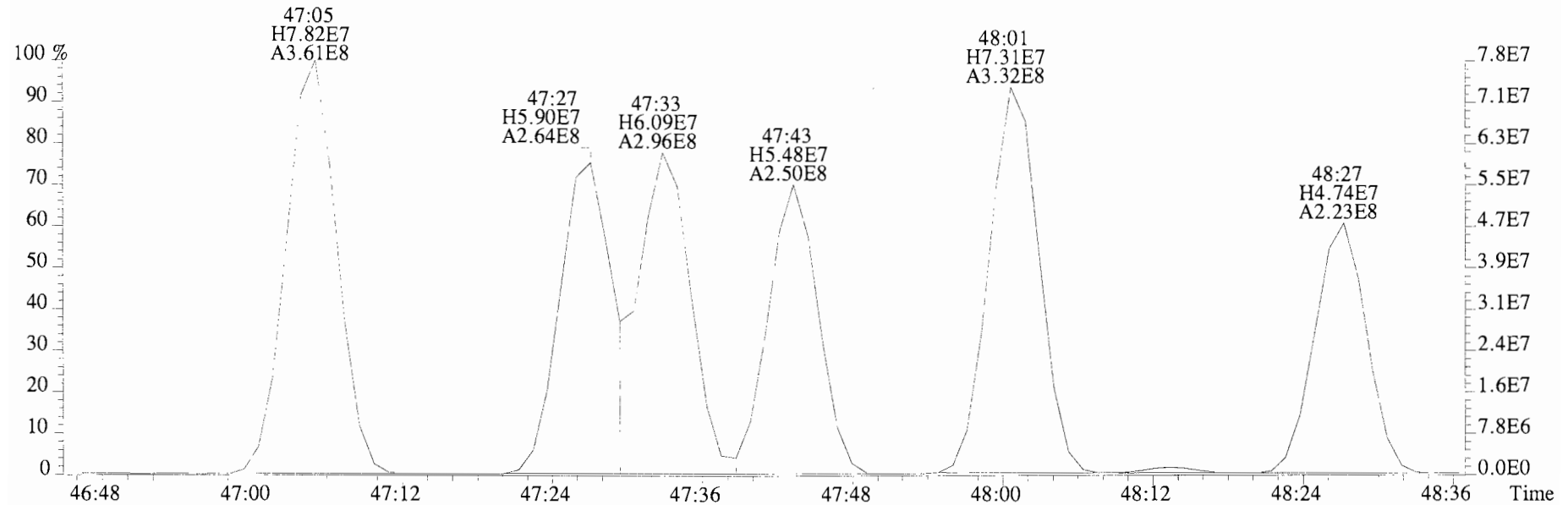
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,258504.0,0.00%,F,F)



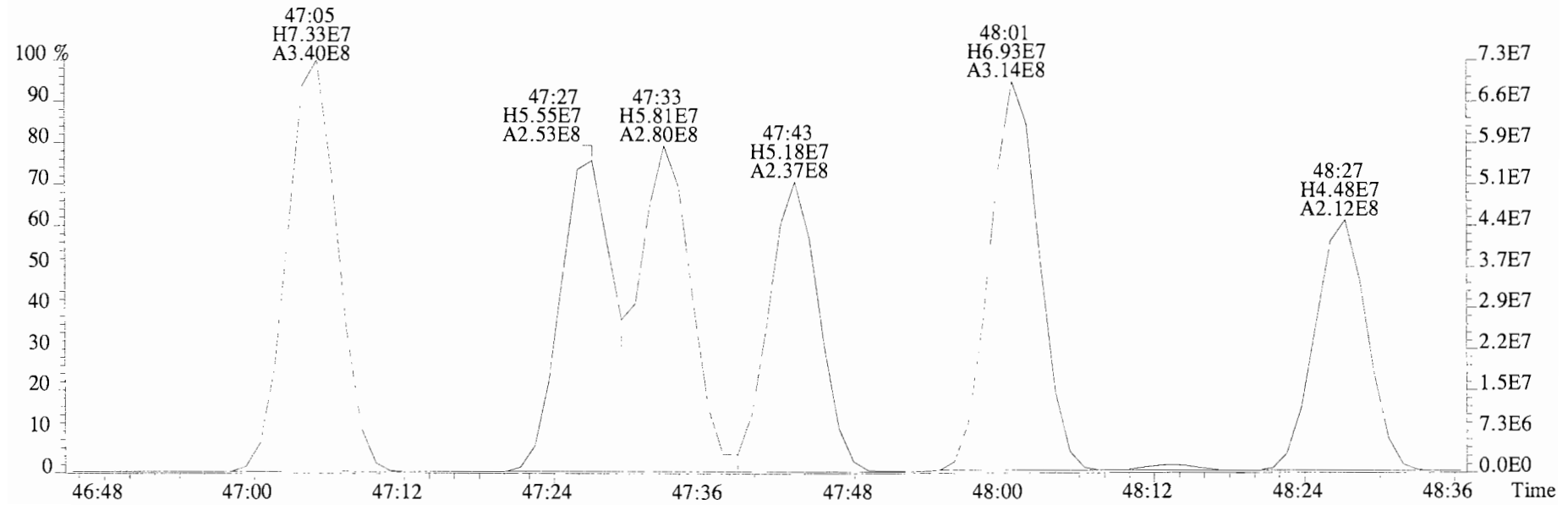
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,278692.0,0.00%,F,F)



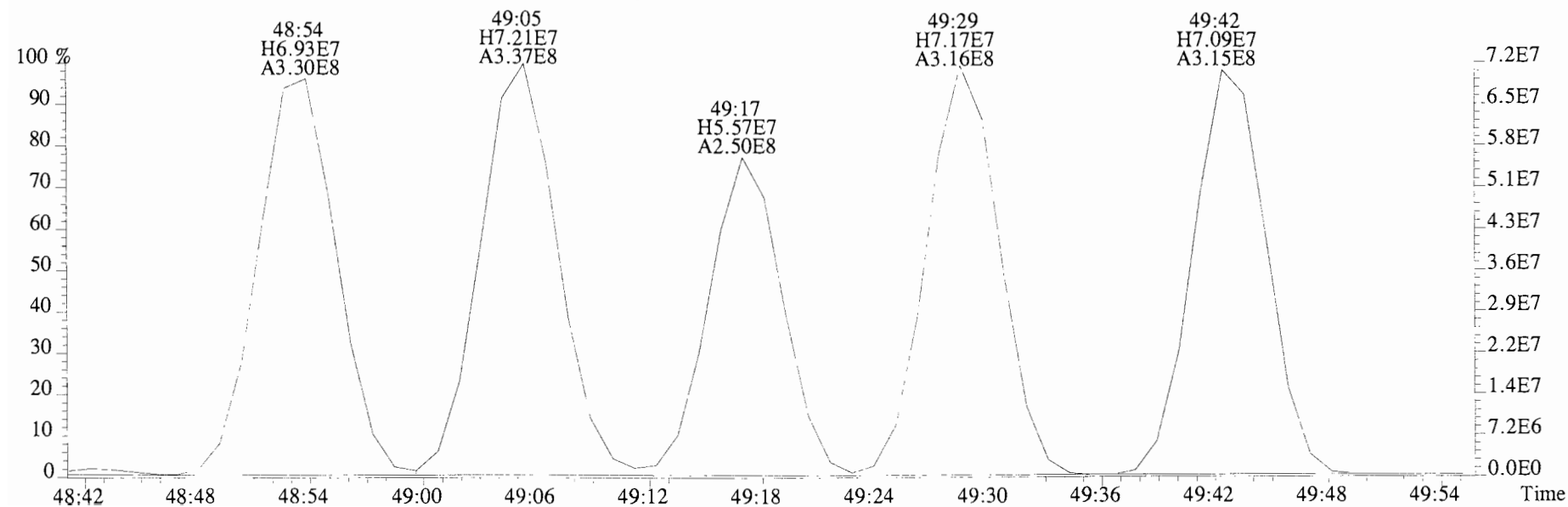
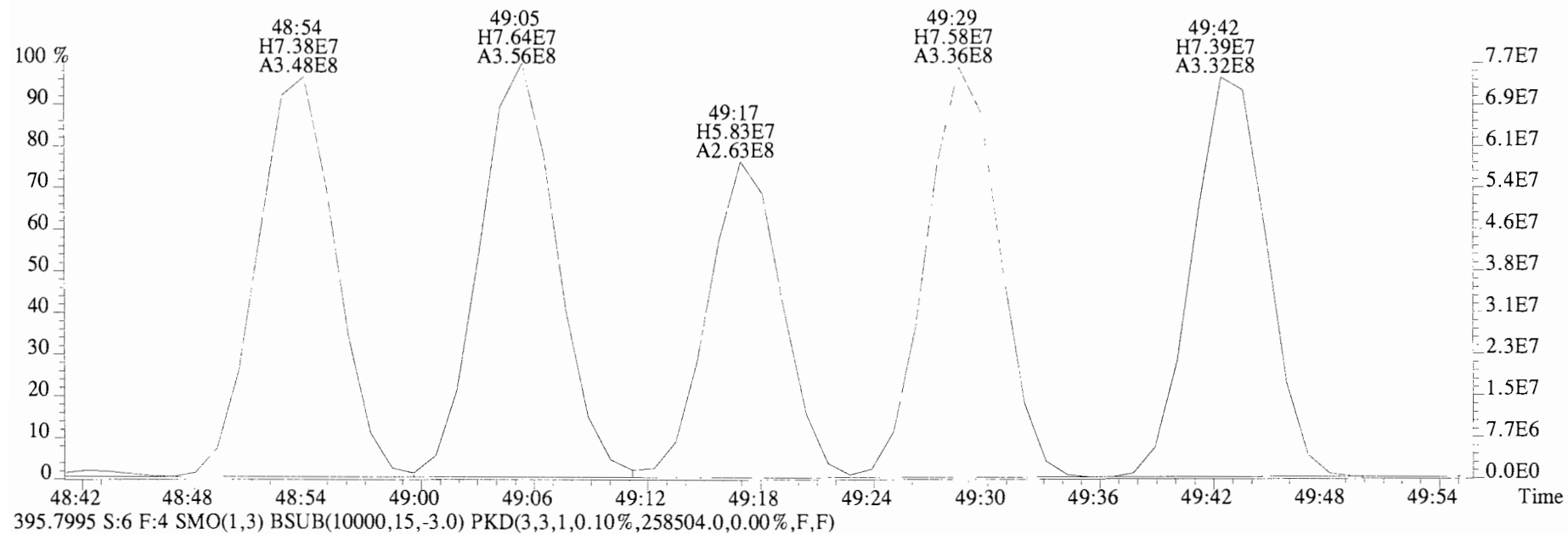
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,278692.0,0.00%,F,F)



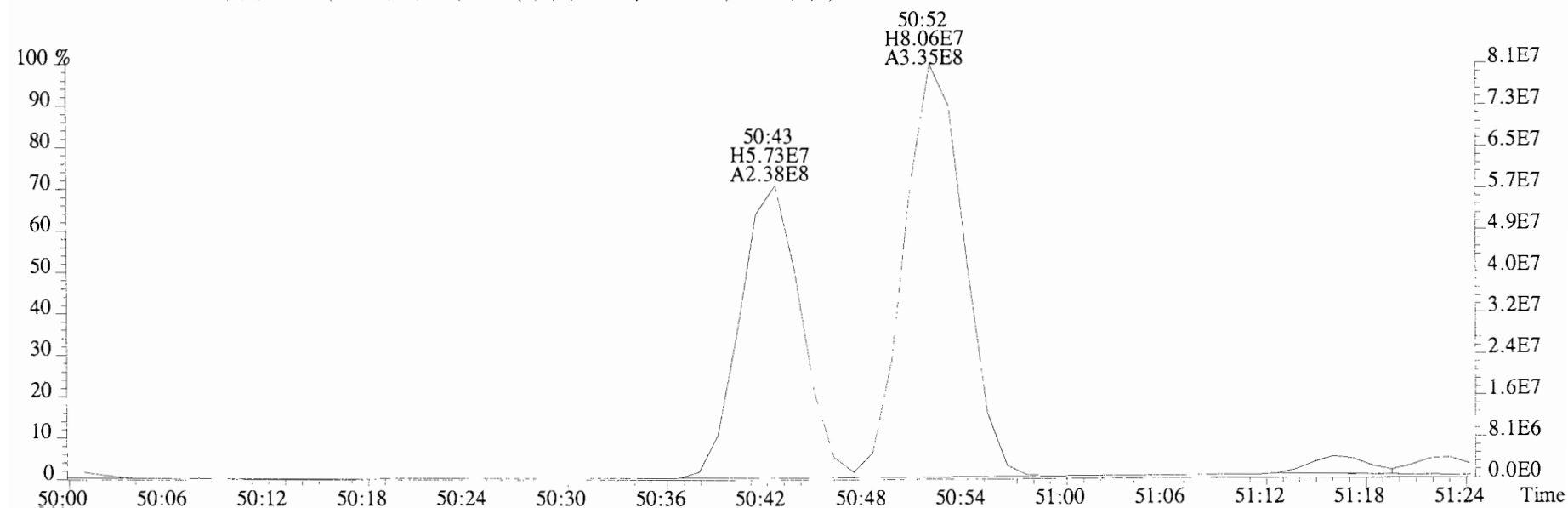
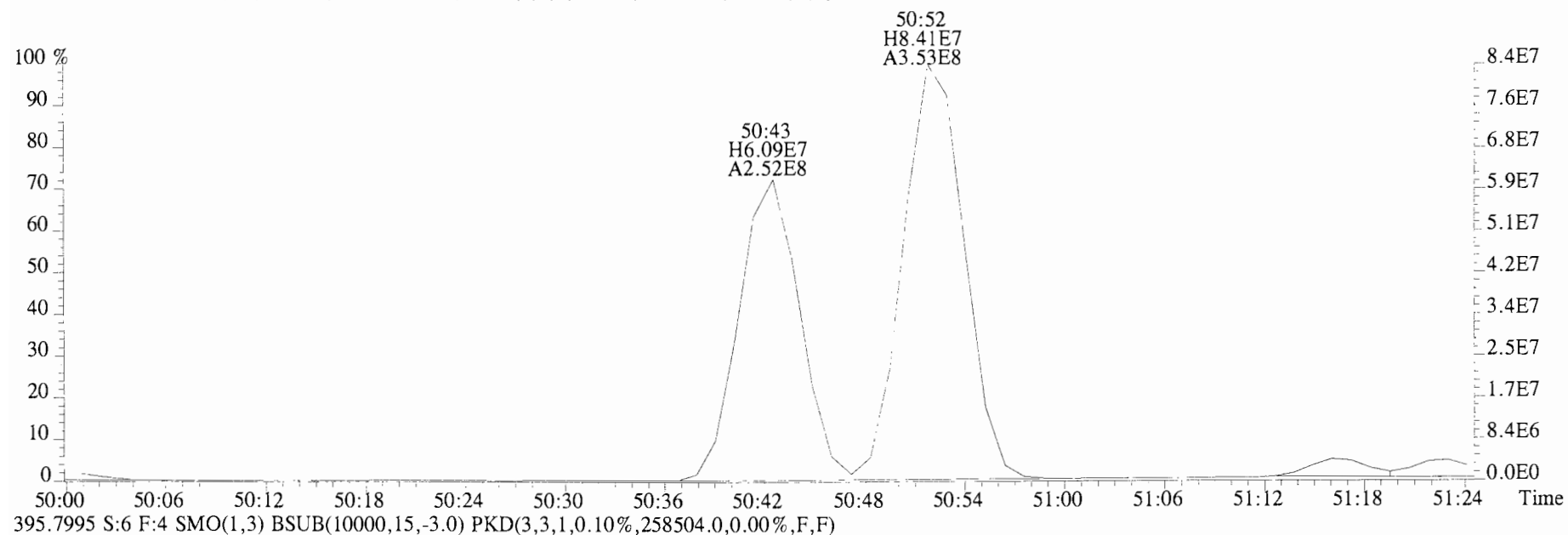
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,258504.0,0.00%,F,F)



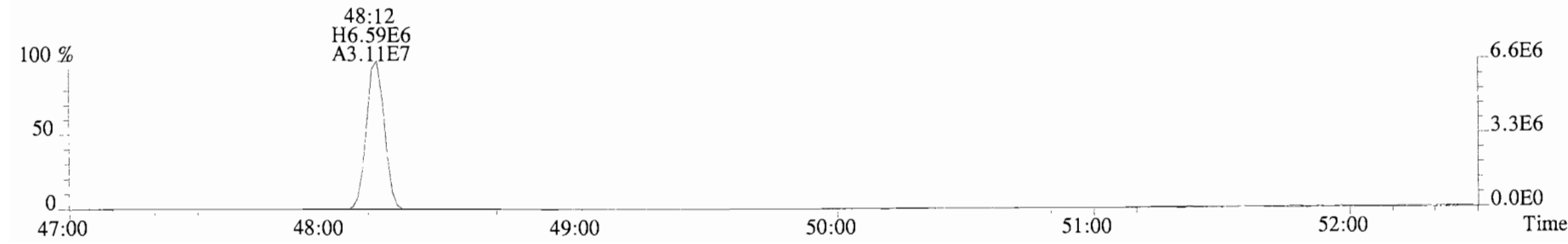
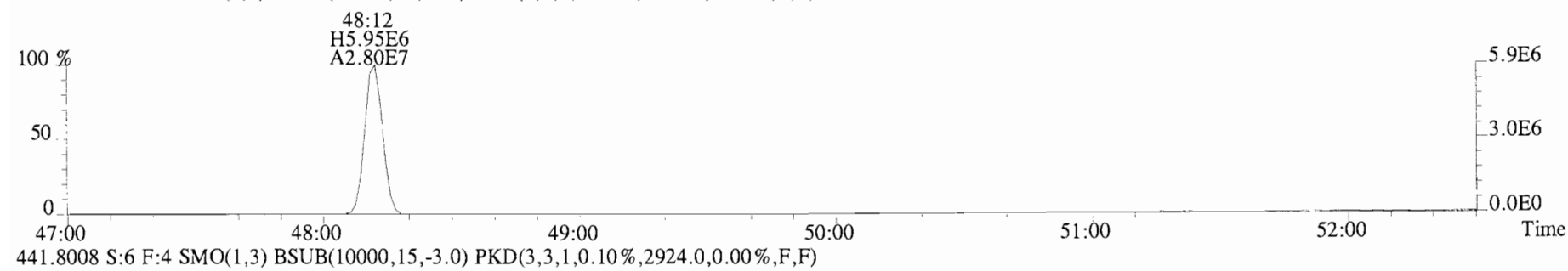
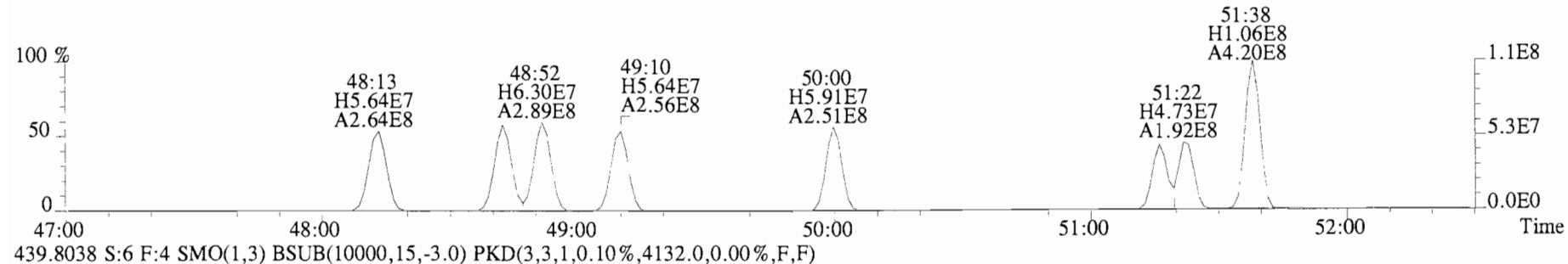
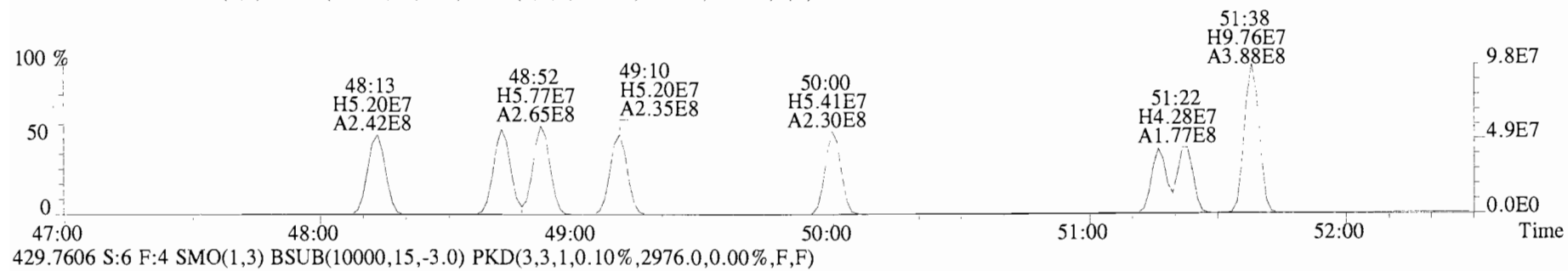
File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%.278692.0,0.00%,F,F)



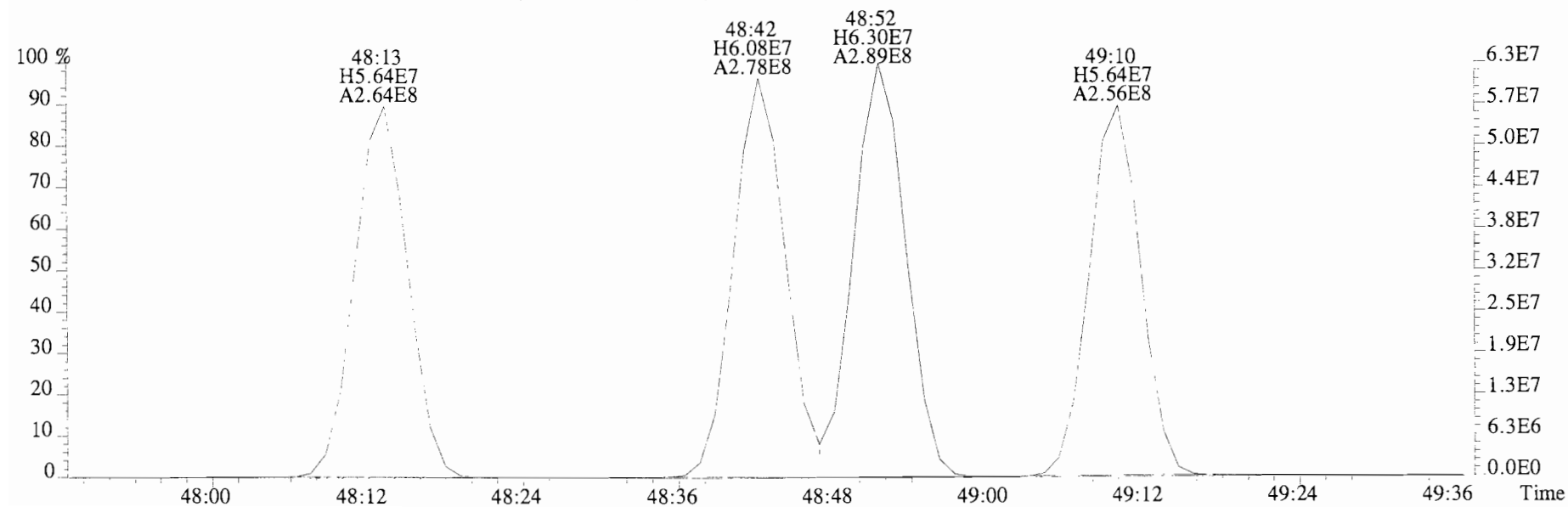
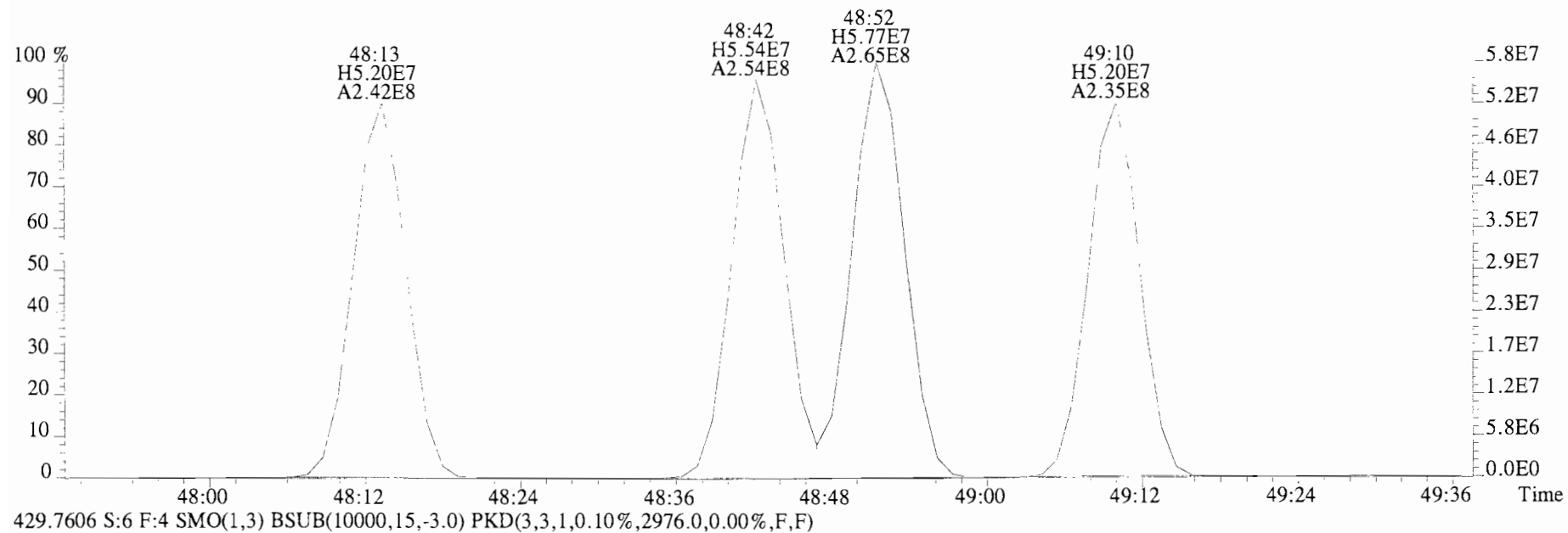
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,278692.0,0.00%,F,F)



File:140623E2 #1-552 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)

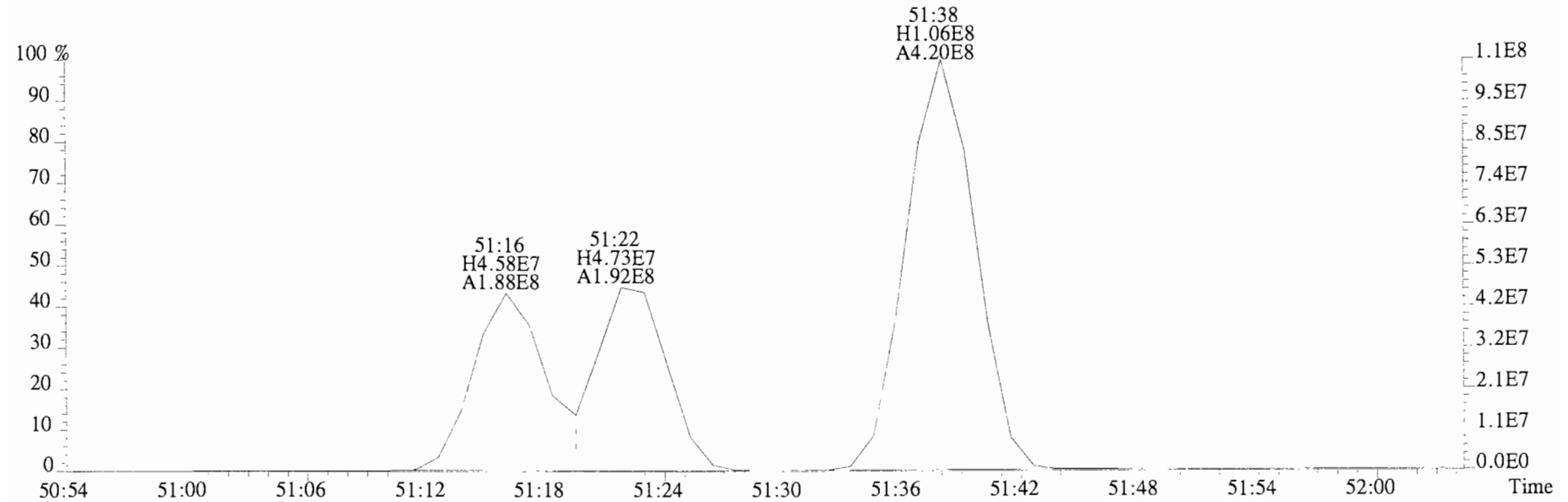
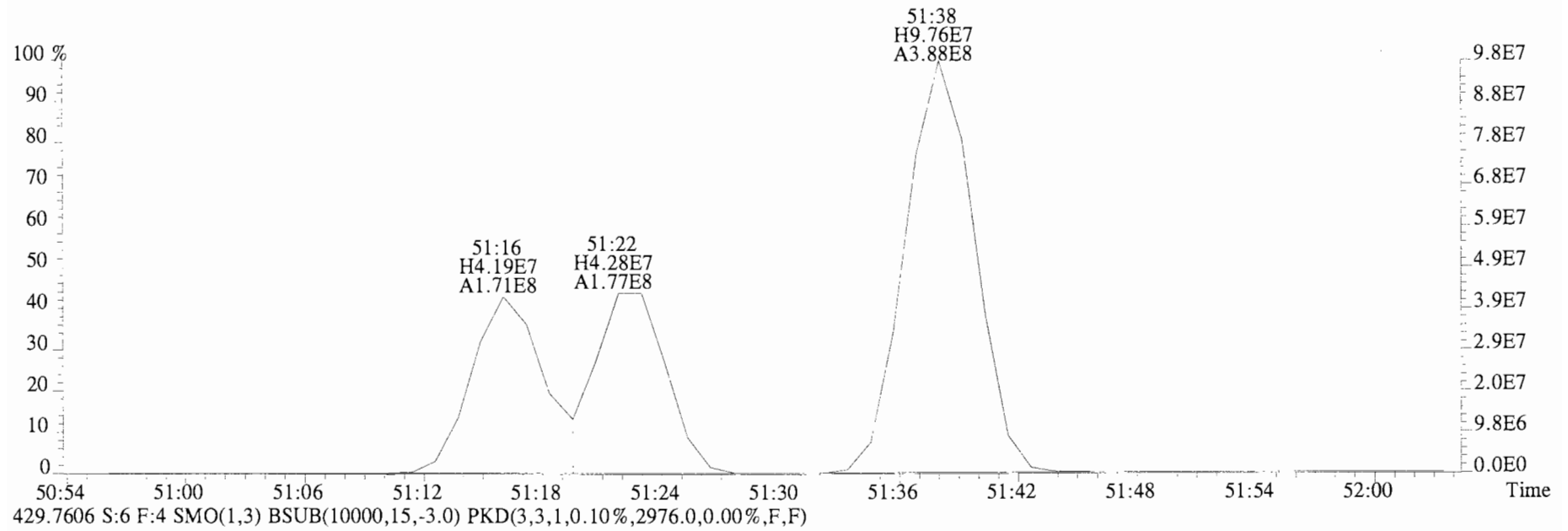


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 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text: ST140623E2-6 PCB CS5 14F1606 Exp: PCB\_ZB1  
 427.7635 S: 6 F: 4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)

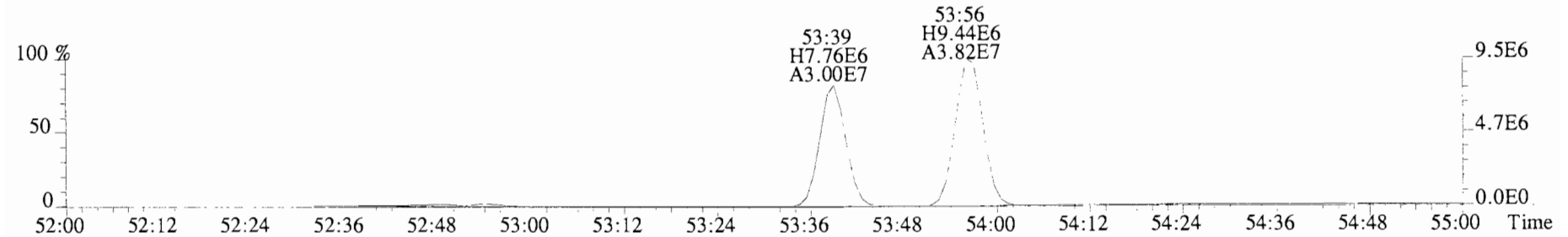
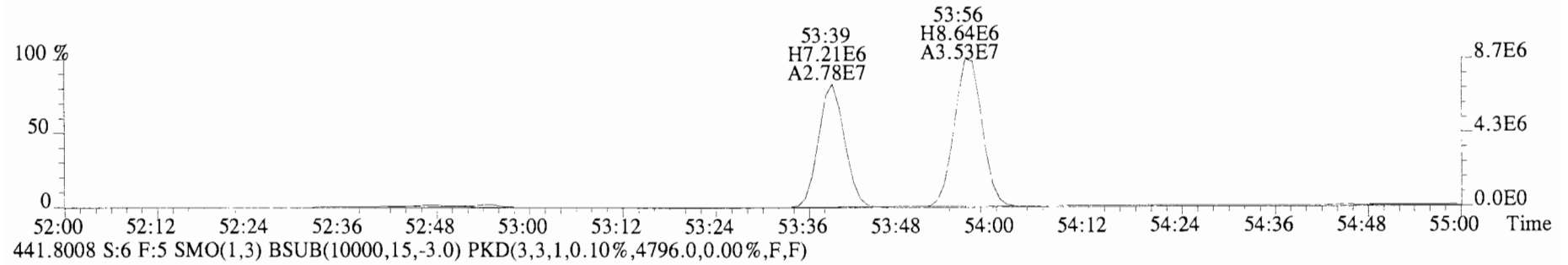
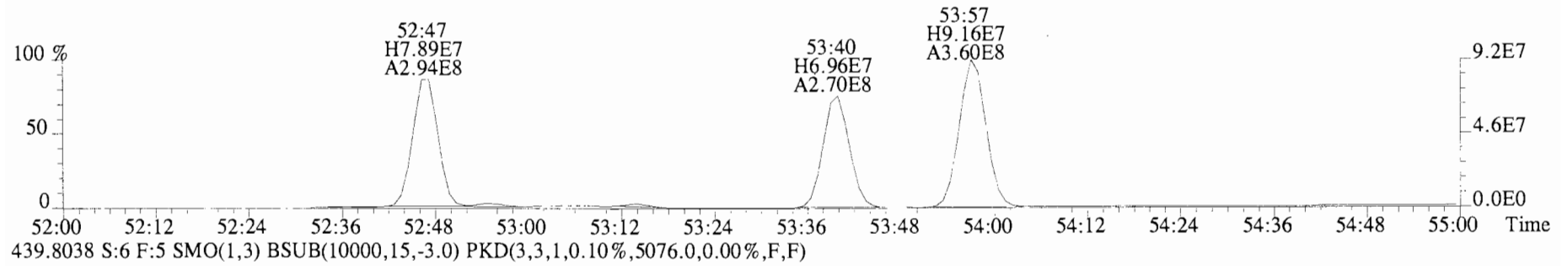
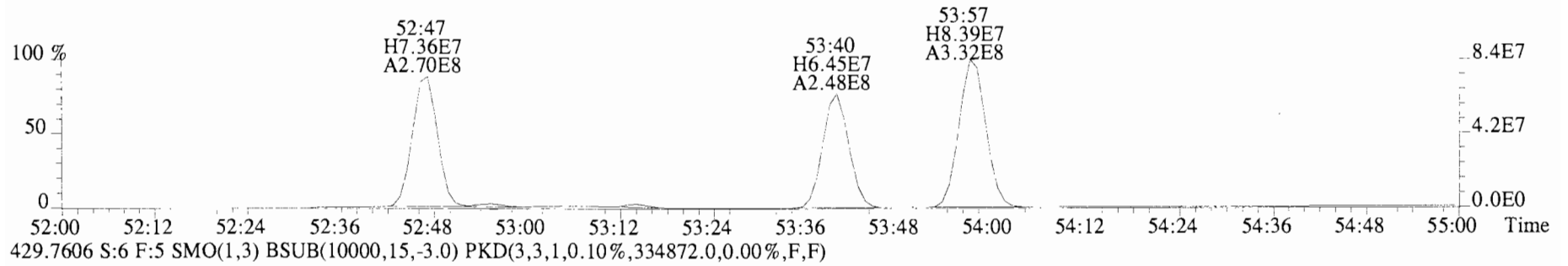




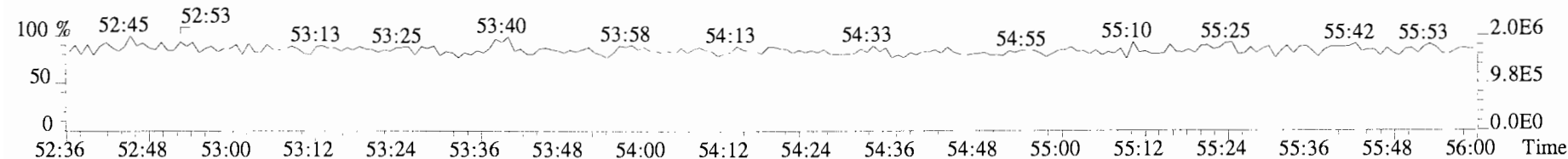
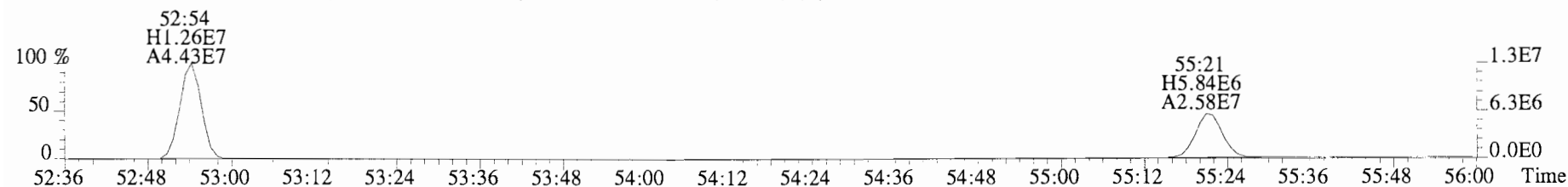
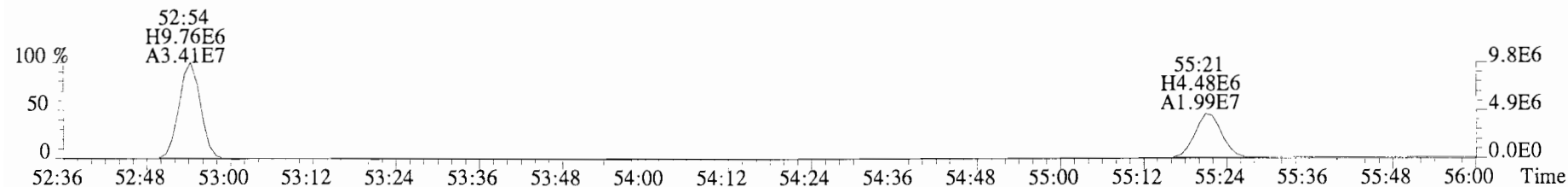
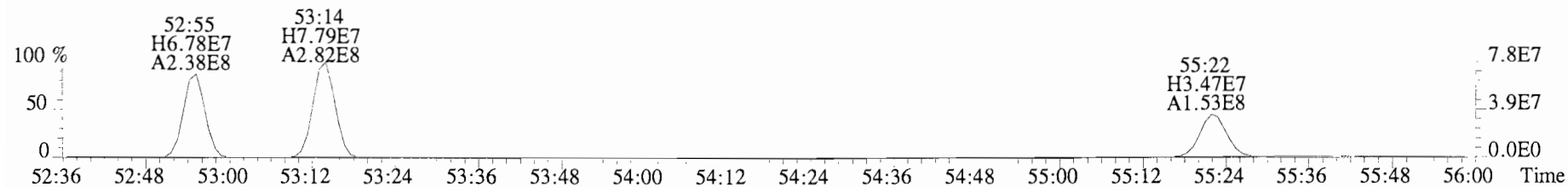
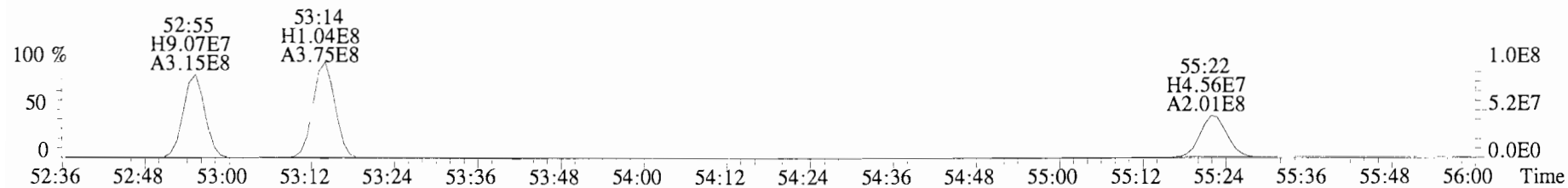
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



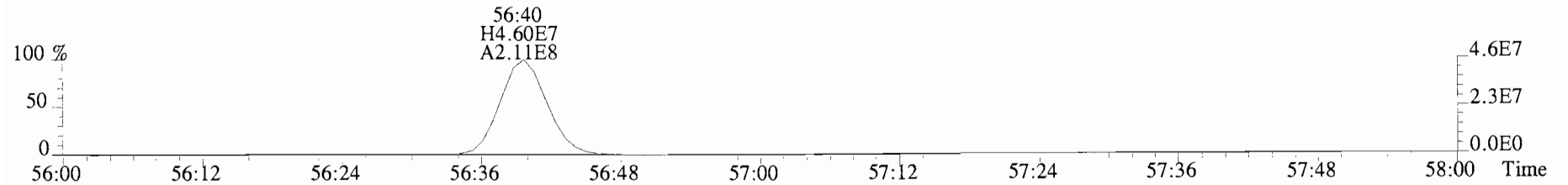
File:140623E2 #1-435 Acq:23-JUN-2014 17:01:39 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,307872.0,0.00%,F,F)



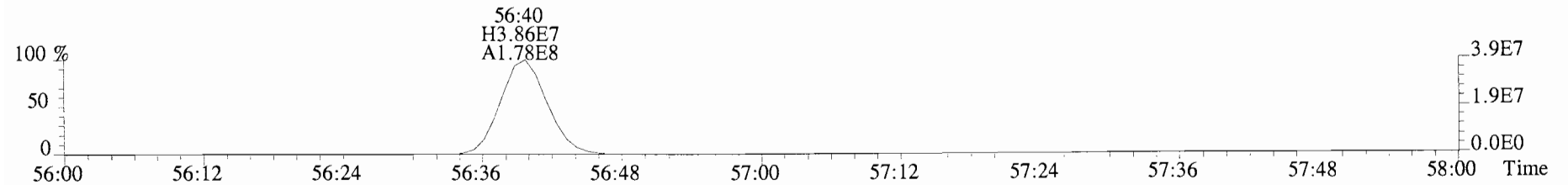
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,134860.0,0.00%,F,F)



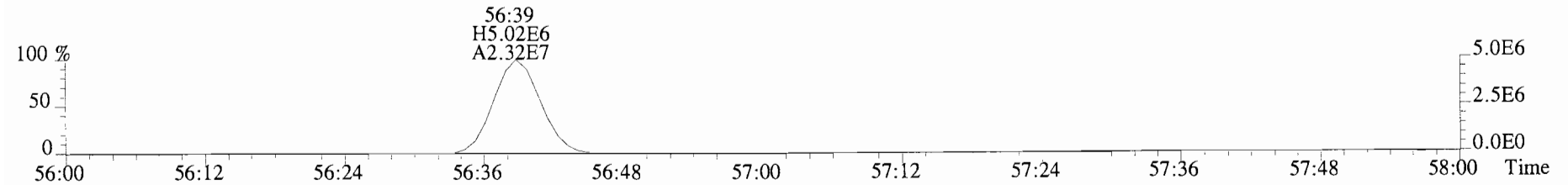
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E2-6 PCB CS5 14F1606 Exp:PCB\_ZB1  
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1528.0,0.00%,F,F)



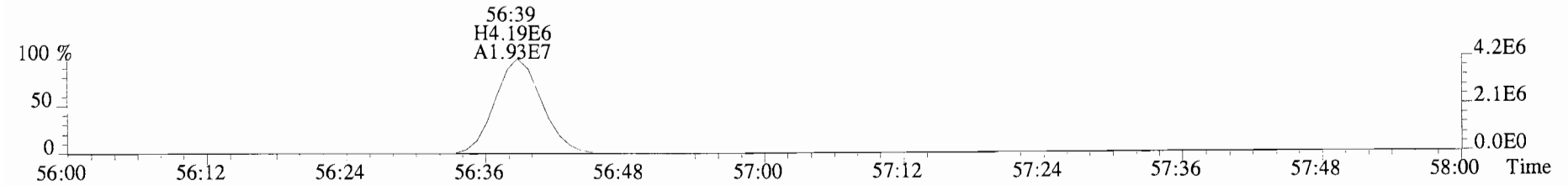
499.6797 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1308.0,0.00%,F,F)



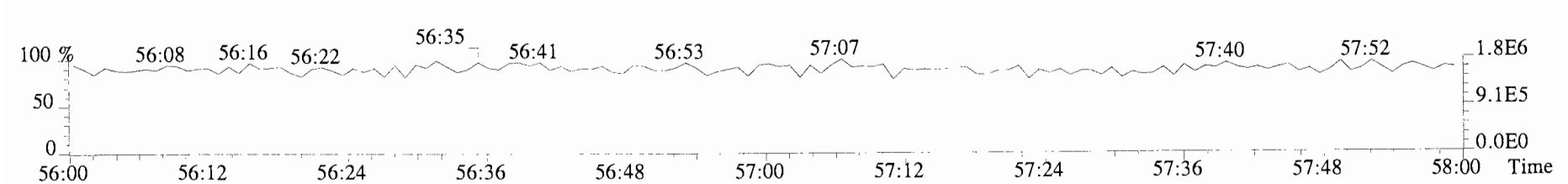
509.7229 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



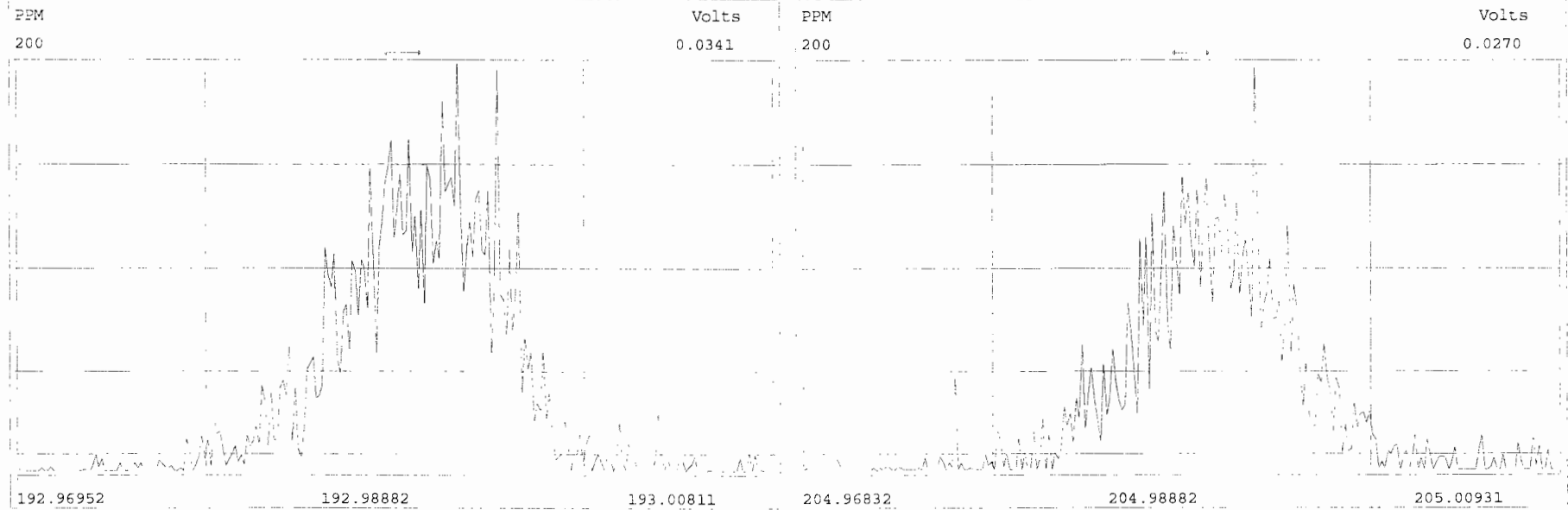
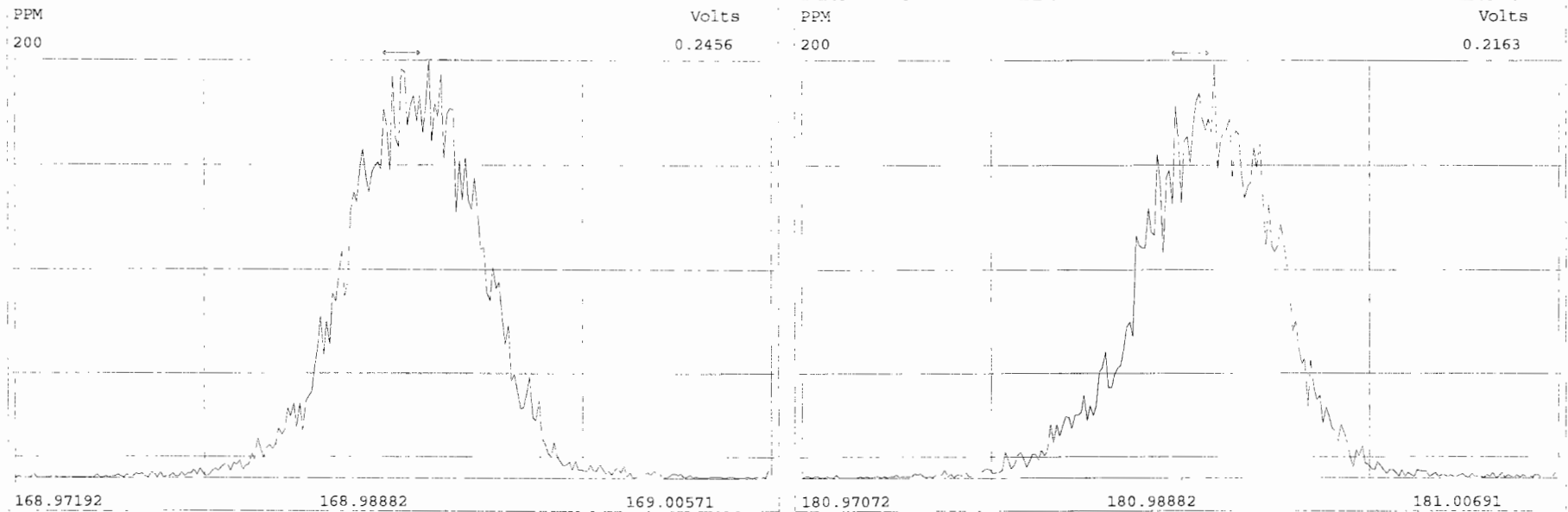
511.7199 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1384.0,0.00%,F,F)

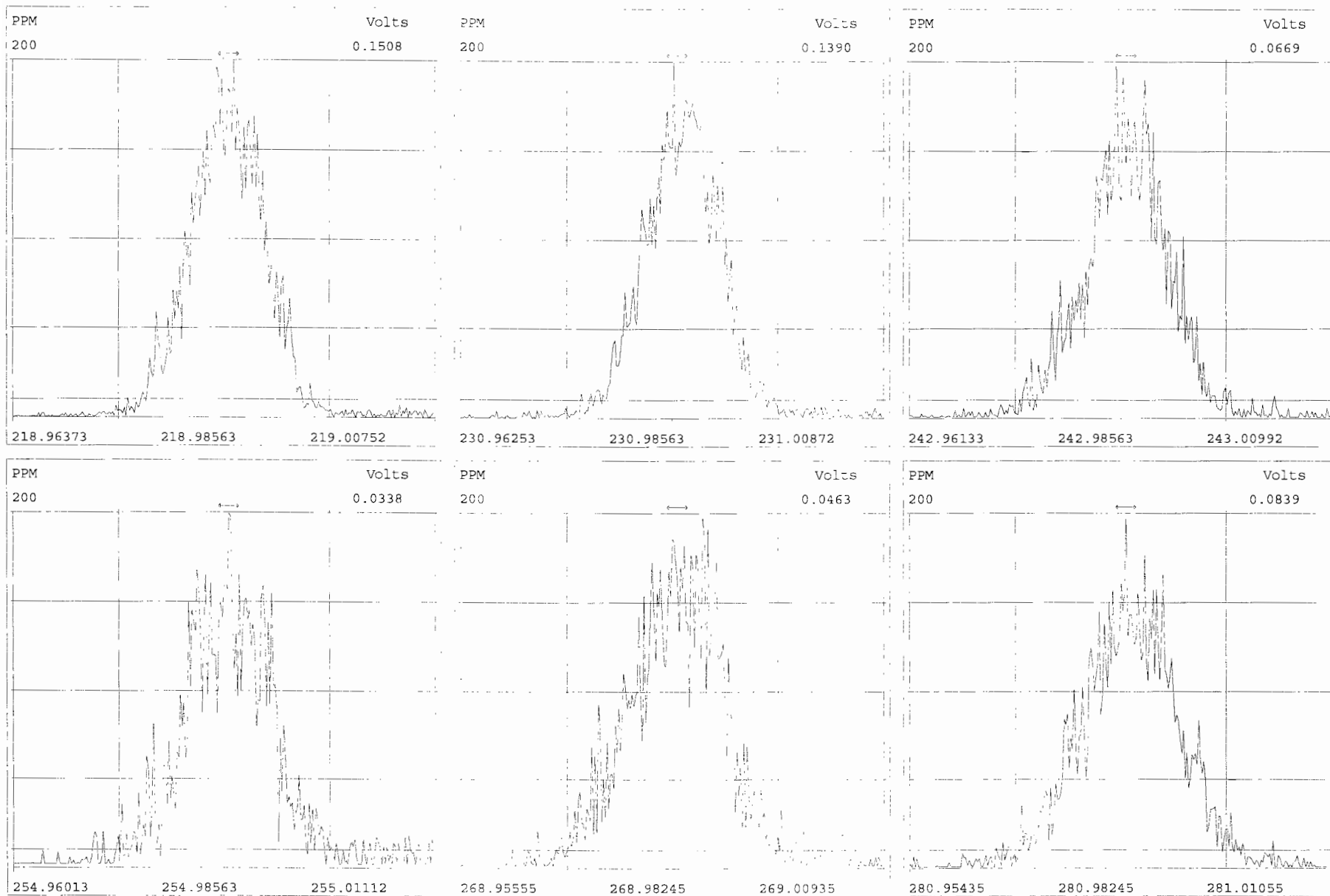


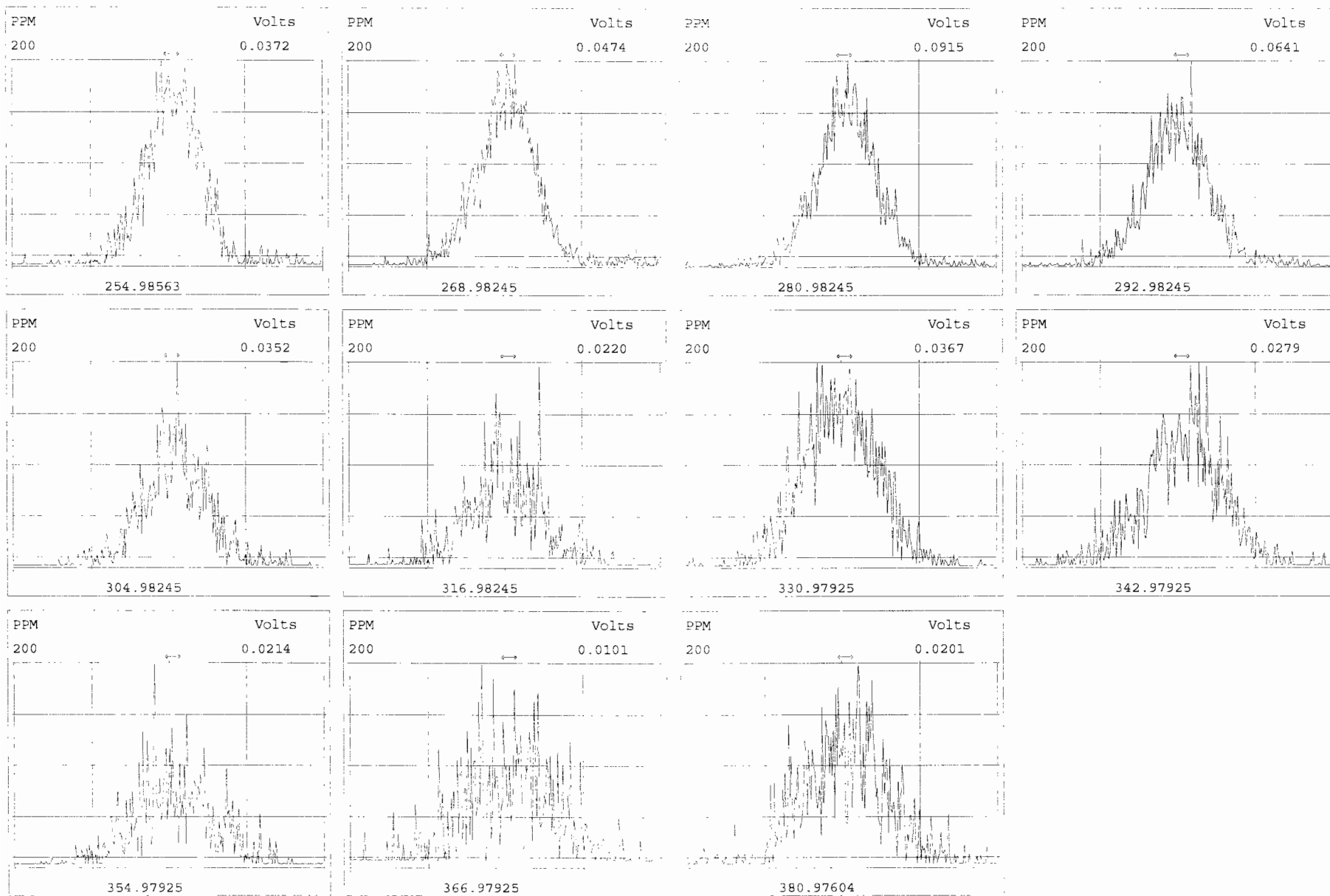
492.9697 S:6 F:5

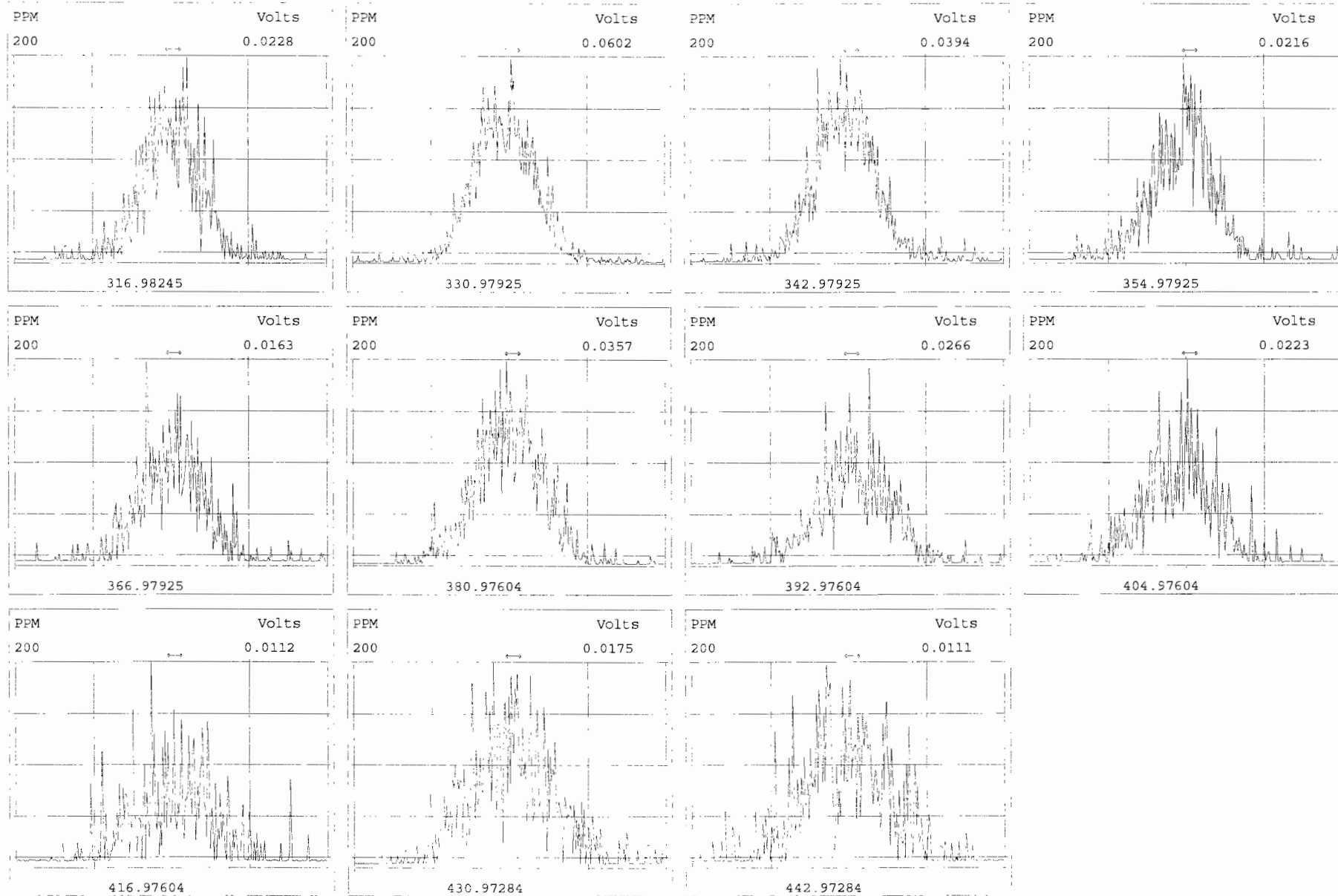


Experiment:PCB\_ZB1 Function:1 Reference:PFK

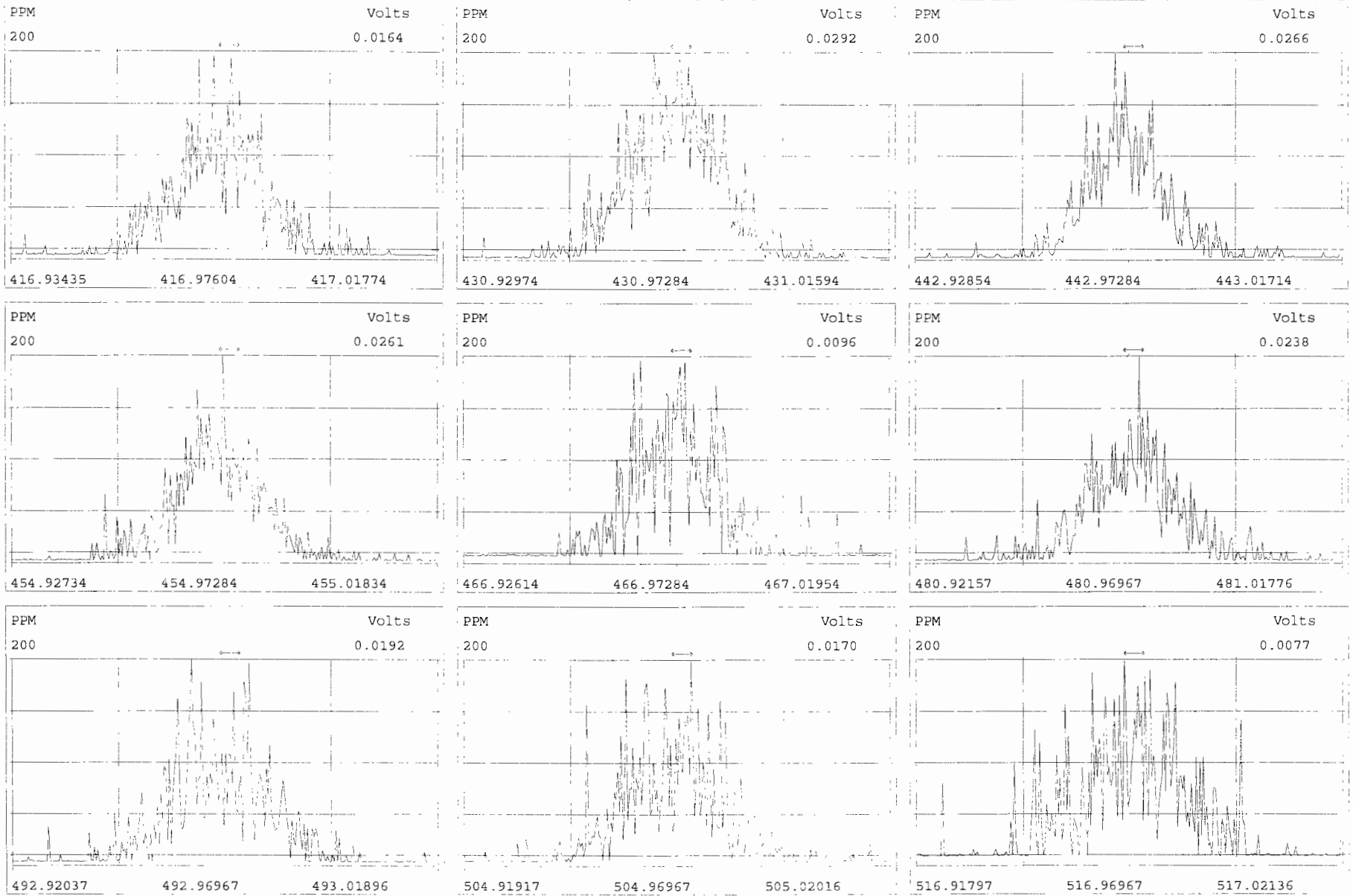












Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.64e+08	2.96	y	1.19	16:25	1.001	0.996-1.006	91.9407	PCB-52/69	4.67e+07	0.77	y	1.28	31:25	1.001	0.996-1.006	41.2897
PCB-2	*	* n	1.18	NotFnd	*	0.984-0.994	*	*	PCB-73	*	* n	1.35	NotFnd	*	1.000-1.010	*	*
PCB-3	1.75e+08	3.01	y	1.43	18:55	1.001	0.996-1.006	74.8484	PCB-43/49	4.28e+07	0.77	y	0.99	31:43	1.010	1.005-1.015	48.7766
PCB-4/10	2.76e+08	1.64	y	1.57	20:14	1.002	0.997-1.007	187.553	PCB-47	*	* n	1.06	NotFnd	*	0.996-1.006	*	*
PCB-7/9	1.72e+08	1.65	y	1.21	21:56	0.870	0.866-0.874	98.5522	PCB-48/75	*	* n	1.23	NotFnd	*	0.999-1.009	*	*
PCB-6	*	* n	1.30	NotFnd	*	0.890-0.899	*	*	PCB-65	*	* n	1.22	NotFnd	*	1.008-1.018	*	*
PCB-5/8	1.78e+08	1.65	y	1.15	22:59	0.911	0.907-0.917	107.490	PCB-62	*	* n	1.22	NotFnd	*	1.011-1.021	*	*
PCB-14	*	* n	1.11	NotFnd	*	0.949-0.959	*	*	PCB-44	3.74e+07	0.78	y	0.86	32:43	1.025	1.021-1.031	46.7834
PCB-11	1.74e+08	1.68	y	1.09	25:14	1.001	0.995-1.005	104.510	PCB-42/59	*	* n	1.14	NotFnd	*	1.028-1.038	*	*
PCB-12/13	1.69e+08	1.65	y	1.19	25:39	1.017	1.011-1.021	92.3710	PCB-41/64/71/72	*	* n	1.21	NotFnd	*	1.046-1.056	*	*
PCB-15	1.82e+08	1.64	y	1.28	25:56	1.028	1.023-1.033	92.7637	PCB-68	*	* n	1.35	NotFnd	*	1.054-1.064	*	*
PCB-19	4.64e-07	1.06	y	1.04	24:15	1.001	0.996-1.006	55.6052	PCB-40	*	* n	0.70	NotFnd	*	1.061-1.071	*	*
PCB-30	*	* n	1.71	NotFnd	*	1.032-1.042	*	*	PCB-57	5.46e+07	0.77	y	0.98	34:21	0.970	0.965-0.975	47.3345
PCB-18	4.71e+07	1.06	y	0.78	25:51	0.954	0.949-0.959	50.4575	PCB-67	*	* n	1.11	NotFnd	*	0.974-0.984	*	*
PCB-17	*	* n	0.92	NotFnd	*	0.956-0.966	*	*	PCB-58	*	* n	0.93	NotFnd	*	0.977-0.987	*	*
PCB-24/27	*	* n	1.19	NotFnd	*	0.977-0.987	*	*	PCB-63	*	* n	0.95	NotFnd	*	0.982-0.992	*	*
PCB-16/32	*	* n	0.94	NotFnd	*	0.995-1.005	*	*	PCB-74	5.69e+07	0.77	y	1.24	35:13	0.995	0.990-1.000	38.8997
PCB-34	*	* n	1.14	NotFnd	*	0.955-0.965	*	*	PCB-61/70	5.73e+07	0.78	y	0.95	35:26	1.001	0.995-1.005	51.0203
PCB-23	*	* n	1.28	NotFnd	*	0.959-0.969	*	*	PCB-76/66	5.74e+07	0.77	y	1.04	35:38	1.007	1.001-1.011	46.6893
PCB-29	*	* n	1.08	NotFnd	*	0.967-0.977	*	*	PCB-80	*	* n	1.19	NotFnd	*	0.996-1.006	*	*
PCB-20	*	* n	1.21	NotFnd	*	0.974-0.984	*	*	PCB-55	*	* n	1.04	NotFnd	*	1.005-1.015	*	*
PCB-25	*	* n	1.26	NotFnd	*	0.979-0.989	*	*	PCB-56/60	*	* n	1.01	NotFnd	*	1.019-1.029	*	*
PCB-31	6.81e-07	1.03	y	1.28	28:56	0.997	0.992-1.002	42.8331	PCB-79	5.91e+07	0.78	y	1.08	37:43	1.053	1.048-1.058	44.6681
PCB-28	7.11e+07	1.06	y	1.71	29:01	1.000	0.995-1.005	33.5569	PCB-78	5.08e+07	0.78	y	1.27	38:25	0.987	0.982-0.992	35.6855
PCB-20/21/33	6.20e+07	1.02	y	1.08	29:40	1.022	1.017-1.027	46.3277	PCB-81	5.87e+07	0.77	y	1.33	38:57	1.000	0.995-1.005	39.3534
PCB-22	*	* n	1.21	NotFnd	*	1.032-1.042	*	*	PCB-77	5.84e+07	0.77	y	1.10	39:32	1.000	0.995-1.005	45.5621
PCB-36	*	* n	1.14	NotFnd	*	0.928-0.938	*	*	PCB-104	4.01e+07	1.59	y	1.18	32:35	1.001	0.996-1.006	46.6184
PCB-39	*	* n	1.12	NotFnd	*	0.943-0.953	*	*	PCB-96	*	* n	1.14	NotFnd	*	1.034-1.044	*	*
PCB-38	6.59e+07	1.06	y	1.20	31:55	0.971	0.966-0.976	44.4922	PCB-103	*	* n	0.96	NotFnd	*	1.050-1.060	*	*
PCB-35	6.80e+07	1.04	y	1.23	32:27	0.987	0.982-0.992	44.7227	PCB-100	*	* n	0.94	NotFnd	*	1.061-1.071	*	*
PCB-37	7.12e+07	1.06	y	1.23	32:53	1.001	0.995-1.005	46.8431	PCB-94	*	* n	1.06	NotFnd	*	0.980-0.990	*	*
PCB-54	5.67e+07	0.77	y	1.10	27:56	1.001	0.996-1.006	49.2604	PCB-95/98/102	2.88e+07	1.58	y	1.22	35:44	1.000	0.995-1.005	43.5901
PCB-50	*	* n	0.88	NotFnd	*	1.037-1.047	*	*	PCB-93	*	* n	0.84	NotFnd	*	0.997-1.007	*	*
PCB-53	*	* n	1.06	NotFnd	*	0.942-0.952	*	*	PCB-88/91	*	* n	1.12	NotFnd	*	1.005-1.015	*	*
PCB-51	*	* n	0.99	NotFnd	*	0.952-0.962	*	*	PCB-121	*	* n	1.62	NotFnd	*	1.009-1.019	*	*
PCB-45	*	* n	0.86	NotFnd	*	0.966-0.976	*	*	PCB-84/92	*	* n	1.05	NotFnd	*	0.985-0.995	*	*
PCB-46	*	* n	0.85	NotFnd	*	0.981-0.991	*	*	PCB-89	*	* n	1.13	NotFnd	*	0.991-1.001	*	*

Integrations Reviewed  
 by  
 Analyst: Dms  
 Date: 6/24/14

RL: MONO, TRI - DECA: \_\_\_\_\_

RL: DI : \_\_\_\_\_

Limits 60-140%

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	3.11e+07	1.60 y	1.10	37:24	1.000	0.995-1.005	48.3448		PCB-133/142	*	n	0.82	NotFnd	*	0.977-0.987	*	
PCB-113	*	n	1.41	NotFnd	*	1.002-1.012	*		PCB-131	*	n	0.91	NotFnd	*	0.981-0.991	*	
PCB-99	3.17e-07	1.64 y	1.34	37:44	1.009	1.004-1.014	40.6138		PCB-146/165	*	n	1.25	NotFnd	*	0.986-0.996	*	
PCB-119	*	n	1.53	NotFnd	*	0.982-0.992	*		PCB-132/161	*	n	1.10	NotFnd	*	0.992-1.002	*	
PCB-108/112	*	n	1.28	NotFnd	*	0.986-0.996	*		PCB-153	4.16e+07	1.22 y	1.25	43:08	1.000	0.995-1.005	41.4311	
PCB-83	*	n	1.52	NotFnd	*	0.990-1.000	*		PCB-168	*	n	1.45	NotFnd	*	1.001-1.011	*	
PCB-97	*	n	1.18	NotFnd	*	0.995-1.005	*		PCB-141	*	n	1.09	NotFnd	*	0.995-1.005	*	
PCB-86	*	n	0.84	NotFnd	*	0.999-1.009	*		PCB-137	*	n	1.06	NotFnd	*	1.004-1.014	*	
B-87/117/125	2.68e+07	1.59 y	1.55	38:59	1.007	1.002-1.012	32.5293		PCB-130	*	n	0.96	NotFnd	*	1.006-1.016	*	
PCB-111/115	3.87e+07	1.60 y	1.63	39:08	1.011	1.006-1.016	44.5103		PCB-138/163/164	3.75e+07	1.23 y	1.29	44:43	1.000	0.996-1.006	38.0018	
PCB-85/116	*	n	1.30	NotFnd	*	1.010-1.020	*		PCB-158/160	*	n	1.34	NotFnd	*	1.001-1.011	*	
PCB-120	*	n	1.68	NotFnd	*	1.016-1.026	*		PCB-129	*	n	0.85	NotFnd	*	1.007-1.017	*	
PCB-110	3.82e+07	1.66 y	1.56	39:39	1.025	1.020-1.030	46.1704		PCB-166	*	n	1.19	NotFnd	*	0.988-0.998	*	
PCB-82	*	n	0.76	NotFnd	*	0.971-0.981	*		PCB-159	*	n	1.11	NotFnd	*	0.996-1.006	*	
PCB-124	*	n	1.47	NotFnd	*	0.988-0.998	*		PCB-128/162	4.78e+07	1.23 y	1.05	46:19	1.007	1.002-1.012	49.9927	
PCB-107/109	*	n	1.32	NotFnd	*	0.991-1.001	*		PCB-167	5.12e+07	1.22 y	1.20	46:42	1.000	0.995-1.005	43.5186	
PCB-123	3.81e+07	1.61 y	1.17	41:17	1.000	0.996-1.006	46.9525		PCB-156	4.67e+07	1.24 y	1.14	48:01	1.001	0.996-1.006	44.4042	
- PCB-106/118	4.03e+07	1.62 y	1.17	41:27	1.000	0.996-1.006	47.0181		PCB-157	5.31e+07	1.25 y	1.16	48:17	1.000	0.995-1.005	46.9755	
- PCB-114	5.47e+07	1.63 y	1.30	42:07	1.000	0.995-1.005	40.7948		PCB-169	4.83e+07	1.25 y	1.12	50:21	1.000	0.995-1.005	45.9161	
PCB-122	*	n	1.12	NotFnd	*	0.999-1.009	*		PCB-188	3.80e+07	1.06 y	1.58	42:46	1.000	0.996-1.006	39.6009	
PCB-105	5.66e+07	1.64 y	1.30	42:59	1.000	0.995-1.005	43.0161		PCB-184	*	n	1.63	NotFnd	*	1.006-1.016	*	
PCB-127	*	n	1.33	NotFnd	*	0.996-1.006	*		PCB-179	*	n	1.30	NotFnd	*	1.024-1.034	*	
PCB-126	6.19e+07	1.65 y	1.18	45:14	1.000	0.995-1.005	52.6350		PCB-176	*	n	1.48	NotFnd	*	1.035-1.045	*	
PCB-155	3.11e+07	1.27 y	1.11	36:56	1.000	0.966-1.006	44.5183		PCB-186	*	n	1.45	NotFnd	*	1.050-1.060	*	
PCB-150	*	n	1.00	NotFnd	*	1.030-1.040	*		PCB-178	2.75e+07	1.04 y	1.03	45:34	1.066	1.061-1.071	43.9265	
PCB-152	*	n	1.12	NotFnd	*	1.043-1.053	*		PCB-175	*	n	1.01	NotFnd	*	1.069-1.079	*	
PCB-145	*	n	1.20	NotFnd	*	1.055-1.065	*		PCB-182/187	3.02e+07	1.06 y	1.25	46:04	1.078	1.073-1.083	39.7551	
PCB-136	*	n	1.18	NotFnd	*	1.064-1.074	*		PCB-183	*	n	1.21	NotFnd	*	1.081-1.091	*	
PCB-148	*	n	0.74	NotFnd	*	1.066-1.076	*		PCB-185	*	n	1.80	NotFnd	*	0.951-0.961	*	
PCB-154	*	n	0.86	NotFnd	*	1.080-1.090	*		PCB-174	2.63e+07	1.05 y	1.38	47:26	0.963	0.958-0.968	42.2366	
PCB-151	*	n	0.75	NotFnd	*	1.097-1.107	*		PCB-181	*	n	1.38	NotFnd	*	0.960-0.970	*	
PCB-135	*	n	0.79	NotFnd	*	1.103-1.113	*		PCB-177	*	n	1.26	NotFnd	*	0.963-0.973	*	
PCB-144	*	n	0.76	NotFnd	*	1.105-1.117	*		PCB-171	*	n	1.58	NotFnd	*	0.970-0.980	*	
PCB-147	*	n	0.82	NotFnd	*	1.109-1.121	*		PCB-173	*	n	1.11	NotFnd	*	0.978-0.988	*	
PCB-139/149	2.19e+07	1.27 y	0.76	41:23	1.120	1.116-1.128	45.8341		PCB-172	*	n	1.63	NotFnd	*	0.987-0.997	*	
- PCB-140	*	n	0.72	NotFnd	*	1.121-1.133	*		PCB-192	*	n	1.74	NotFnd	*	0.991-1.001	*	
- PCB-134/143	*	n	0.92	NotFnd	*	0.970-0.980	*		PCB-180	3.23e+07	1.05 y	1.34	49:17	1.000	0.995-1.005	53.1462	

Integrations

by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: *DMS*

Date: *6/24/14*

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	*	* n	1.72	NotFnd	*	0.999-1.009		*
PCB-191	*	* n	1.69	NotFnd	*	1.004-1.014		*
PCB-170	2.70e+07	1.08 y	1.60	50:43	1.001	0.995-1.005		45.5258
PCB-190	*	* n	2.21	NotFnd	*	0.998-1.008		*
PCB-189	3.69e+07	1.05 y	1.55	52:09	1.000	0.995-1.005		47.9882
PCB-202	2.57e+07	0.92 y	1.08	48:12	1.000	0.995-1.005		44.7672
PCB-201	*	* n	1.15	NotFnd	*	1.005-1.015		*
PCB-204	*	* n	1.14	NotFnd	*	1.008-1.018		*
PCB-197	*	* n	1.07	NotFnd	*	1.015-1.025		*
PCB-200	2.50e+07	0.91 y	1.06	50:00	1.037	1.032-1.044		44.2281
PCB-198	*	* n	0.76	NotFnd	*	1.059-1.069		*
PCB-199	*	* n	0.80	NotFnd	*	1.061-1.071		*
- PCB-196/203	2.12e+07	0.92 y	0.80	51:38	1.071	1.066-1.076		49.7975
- PCB-195	3.79e+07	0.92 y	1.23	52:47	0.984	0.979-0.989		48.9806
PCB-194	3.83e+07	0.91 y	1.21	53:41	1.000	0.995-1.005		50.0945
PCB-205	4.77e+07	0.93 y	1.54	53:58	1.006	1.001-1.011		49.0795
PCB-208	3.29e+07	1.34 y	0.93	52:55	1.000	0.995-1.005		45.8890
PCB-207	*	* n	1.08	NotFnd	*	1.001-1.011		*
PCB-206	2.38e+07	1.33 y	1.02	55:23	1.000	0.995-1.005		46.4995
PCB-209	2.77e+07	1.20 y	1.17	56:40	1.000	0.995-1.005		47.2427

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	3.39e+08	2.96 y	16:25	1.27	166.789
Total Di-PCB	1.15e+09	1.64 y	20:14	1.21	683.240
Total Tri-PCB	9.35e+07	1.06 y	24:15	1.10	106.063
Total Tri-PCB	4.06e+08	1.03 y	28:56	1.21	258.776
Total Tetra-PCB	6.37e+08	0.77 y	27:56	1.09	535.323
Total Penta-PCB	3.14e+08	1.59 y	32:35	1.18	396.348
Total Penta-PCB	1.74e+08	1.63 y	42:07	1.25	136.957
Total Hexa-PCB	5.30e+07	1.27 y	36:56	0.90	90.3524
Total Hexa-PCB	3.26e+08	1.22 y	43:08	1.11	310.240
Total Hepta-PCB	2.18e+08	1.06 y	42:46	1.42	312.179
Total Octa-PCB	7.19e+07	0.92 y	48:12	0.96	138.793
Total Octa-PCB	1.27e+08	0.92 y	52:47	1.33	151.807
Total Nona-PCB	5.67e+07	1.34 y	52:55	1.01	92.3884
Total Deca-PCB	2.77e+07	1.20 y	56:40	1.17	47.2427

Sum:364.838

Sum:533.304

Sum:400.592

Sum:290.600

Total PCB Conc:3422.33442200

Integrations  
by

RL: MONO, TRI - DECA: \_\_\_\_\_

Analyst: *DMS*

Date: *6/24/14*

Client ID: PCB SSS 14E1403  
Lab ID: ST140623E4-2

Filename: 140623E4 S:2 Acq:24-JUN-14 17:58:29  
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000

ConCal: NA  
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	1.49e+08	3.39	y	0.87	16:24	0.633	0.629-0.635	106	106											
13C-PCB-3	1.64e+08	3.41	y	0.91	18:54	0.729	0.725-0.733	111	111	13C-PCB-79	1.24e+08	0.80	y	1.02	37:43	1.029	1.023-1.034	102	102	
13C-PCB-4	9.39e+07	1.59	y	0.59	20:12	0.779	0.775-0.783	99.1	99.1	13C-PCB-178	4.16e+07	0.46	y	0.61	45:33	0.984	0.979-0.990	95.7	95.7	
13C-PCB-9	1.44e+08	1.61	y	0.90	21:55	0.846	0.842-0.850	99.7	99.7											
13C-PCB-11	1.54e+08	1.58	y	0.94	25:13	0.973	0.968-0.978	101	101	PS vs. IS										
13C-PCB-19	8.00e+07	1.09	y	0.53	24:14	0.935	0.930-0.940	93.1	93.1	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-28	1.24e+08	1.04	y	0.93	29:01	1.003	0.999-1.009	103	103	13C-PCB-79	1.24e+08	0.80	y	1.10	37:43	0.969	0.963-0.973	101	101	
13C-PCB-32	1.19e+08	1.11	y	0.80	27:05	1.045	1.040-1.050	92.9	92.9	13C-PCB-178	4.16e+07	0.46	y	0.90	45:33	0.925	0.920-0.930	102	102	
13C-PCB-37	1.24e+08	1.06	y	0.84	32:52	1.137	1.131-1.143	114	114											
13C-PCB-47	9.28e+07	0.79	y	0.81	31:55	0.871	0.866-0.874	95.7	95.7											
13C-PCB-52	8.82e+07	0.79	y	0.77	31:24	0.857	0.853-0.861	95.7	95.7											
13C-PCB-54	1.04e+08	0.81	y	0.97	27:55	0.762	0.758-0.766	90.0	90.0											
13C-PCB-70	1.18e+08	0.80	y	1.00	35:24	0.966	0.961-0.971	98.7	98.7											
13C-PCB-77	1.16e+08	0.81	y	0.94	39:32	1.079	1.073-1.083	103	103											
13C-PCB-80	1.22e+08	0.80	y	1.03	35:49	0.977	0.972-0.982	99.3	99.3											
13C-PCB-81	1.12e+08	0.80	y	0.92	38:56	1.062	1.057-1.067	102	102											
13C-PCB-95	5.39e+07	1.57	y	0.74	35:43	0.913	0.908-0.918	98.4	98.4	RS										
13C-PCB-97	5.32e+07	1.59	y	0.70	38:42	0.989	0.984-0.994	102	102	Name	Resp	RA	RRF	RT	Conc					
13C-PCB-101	5.85e+07	1.59	y	0.78	37:23	0.956	0.951-0.961	101	101	13C-PCB-15	1.61e+08	1.59	y	1.00	25:55	100				
13C-PCB-104	7.27e+07	1.62	y	1.00	32:34	0.833	0.828-0.836	98.3	98.3	13C-PCB-31	1.29e+08	1.04	y	1.00	28:55	100				
13C-PCB-105	1.01e+08	1.60	y	1.37	42:58	0.928	0.924-0.934	105	105	13C-PCB-60	1.19e+08	0.79	y	1.00	36:39	100				
13C-PCB-114	1.03e+08	1.63	y	1.36	42:06	0.910	0.905-0.915	107	107	13C-PCB-111	7.39e+07	1.59	y	1.00	39:07	100				
13C-PCB-118	7.31e+07	1.59	y	0.96	41:26	1.059	1.054-1.064	103	103	13C-PCB-128	7.09e+07	1.26	y	1.00	46:17	100				
13C-PCB-123	6.96e+07	1.57	y	0.89	41:16	1.055	1.050-1.060	105	105	13C-PCB-205	8.09e+07	0.91	y	1.00	53:57	100				
13C-PCB-126	9.95e+07	1.58	y	1.31	45:13	0.977	0.972-0.982	107	107											
13C-PCB-127	1.09e+08	1.63	y	1.47	43:18	0.936	0.931-0.941	104	104											
13C-PCB-138	7.64e+07	1.26	y	1.10	44:43	0.966	0.961-0.971	97.9	97.9											
13C-PCB-141	7.42e+07	1.30	y	1.07	43:52	0.948	0.943-0.953	97.3	97.3											
13C-PCB-153	8.04e+07	1.28	y	1.15	43:07	0.932	0.927-0.937	98.8	98.8											
13C-PCB-155	6.28e+07	1.28	y	0.84	36:56	0.944	0.939-0.949	101	101											
13C-PCB-156	9.27e+07	1.28	y	1.30	47:59	1.037	1.032-1.042	101	101											
13C-PCB-157	9.72e+07	1.32	y	1.36	48:16	1.043	1.038-1.048	101	101											
13C-PCB-159	9.13e+07	1.26	y	1.25	46:00	0.994	0.989-0.999	103	103											
13C-PCB-167	9.81e+07	1.28	y	1.35	46:41	1.009	1.004-1.014	102	102											
13C-PCB-169	9.41e+07	1.28	y	1.29	50:21	1.088	1.083-1.093	103	103											
13C-PCB-170	3.71e+07	0.47	y	0.54	50:41	1.095	1.089-1.101	96.3	96.3											
13C-PCB-180	4.53e+07	0.48	y	0.68	49:16	1.064	1.060-1.070	93.3	93.3											
13C-PCB-188	6.06e+07	0.47	y	0.92	42:45	0.924	0.919-0.929	93.2	93.2											
13C-PCB-189	4.96e+07	0.46	y	0.72	52:09	1.127	1.120-1.132	97.6	97.6											
13C-PCB-194	6.31e+07	0.93	y	0.80	53:40	0.995	0.990-1.000	97.7	97.7											
13C-PCB-202	5.31e+07	0.91	y	0.84	48:12	1.041	1.036-1.046	89.4	89.4											
13C-PCB-206	4.99e+07	0.80	y	0.65	55:22	1.026	1.021-1.031	94.9	94.9											
13C-PCB-208	7.72e+07	0.78	y	1.08	52:54	0.981	0.976-0.986	88.2	88.2											
13C-PCB-209	5.01e+07	1.19	y	0.61	56:39	1.050	1.045-1.055	102	102											

Analyst: *DMS*

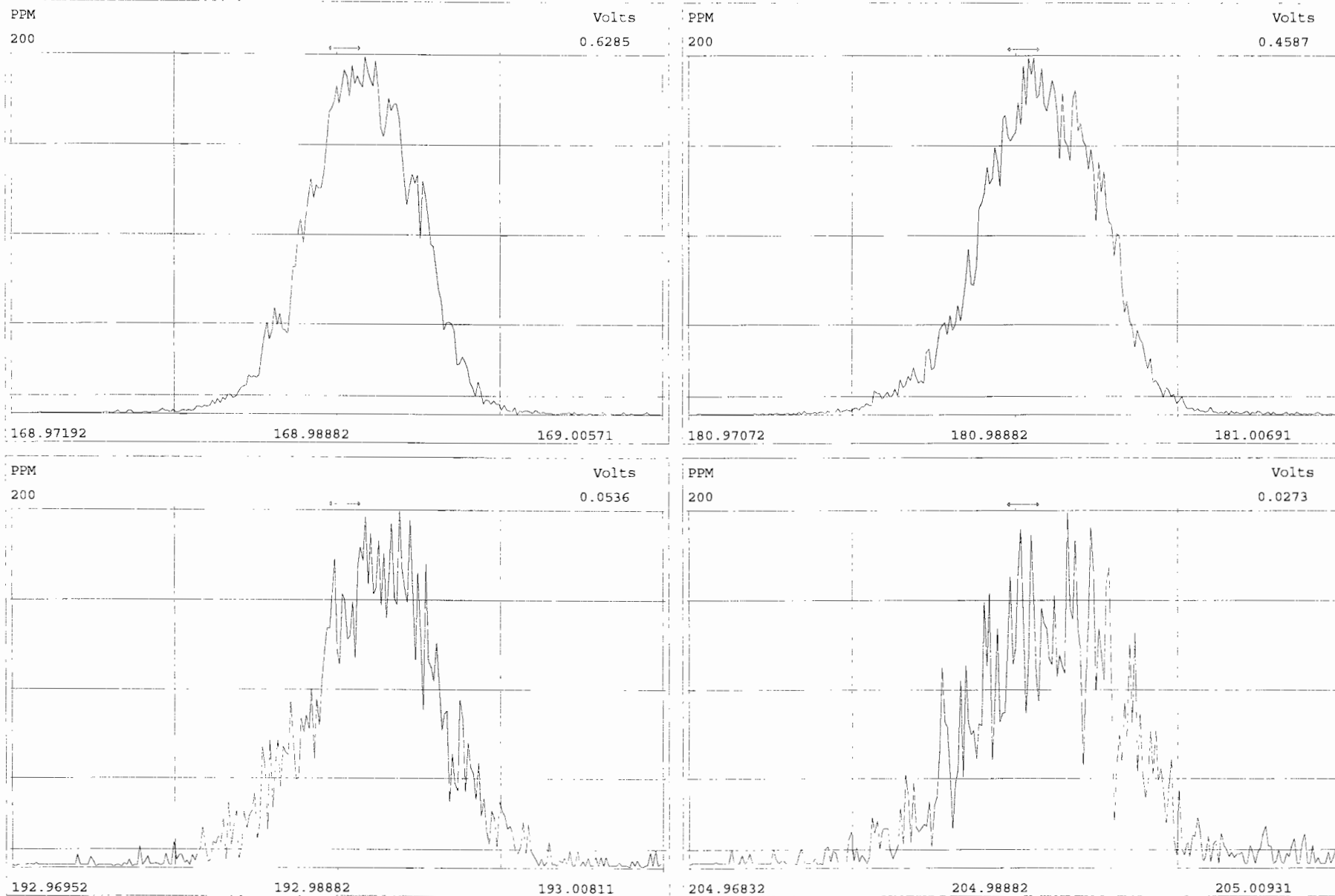
Date: 6/24/14

Vista Analytical Laboratory - Injection Log Run file: 140623E4 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140623E4	1	ST140623E4-1	DMS	24-JUN-14	16:54:35	ST140623E4-1	NA
140623E4	2	ST140623E4-2	DMS	24-JUN-14	17:58:29	ST140623E4-1	NA
140623E4	3	SOLVENT BLANK	DMS	24-JUN-14	19:02:22	ST140623E4-1	NA
140623E4	4	1400418-10 1:10	DMS	24-JUN-14	20:06:18	ST140623E4-1	NA
140623E4	5	1400418-11 1:10	DMS	24-JUN-14	21:10:15	ST140623E4-1	NA
140623E4	6	1400418-12 1:10	DMS	24-JUN-14	22:14:11	ST140623E4-1	NA
140623E4	7	1400418-13 1:10	DMS	24-JUN-14	23:18:09	ST140623E4-1	NA
140623E4	8	1400418-14 1:10	DMS	25-JUN-14	00:22:06	ST140623E4-1	NA
140623E4	9	1400418-15 1:10	DMS	25-JUN-14	01:26:03	ST140623E4-1	NA
140623E4	10	1400418-16 1:10	DMS	25-JUN-14	02:29:57	ST140623E4-1	NA
140623E4	11	SOLVENT BLANK	DMS	25-JUN-14	03:33:50	ST140623E4-1	NA

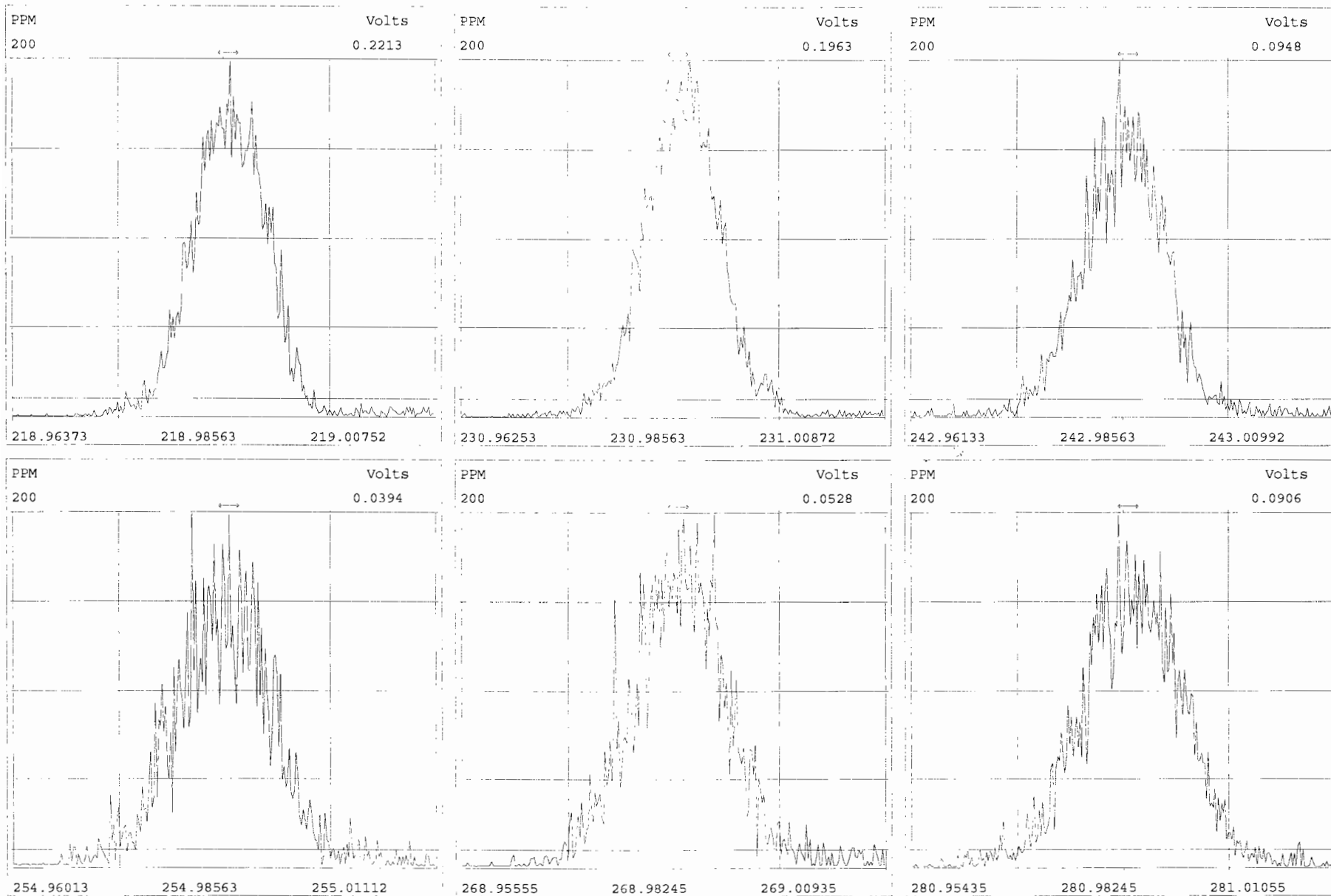
Peak Locate Examination:24-JUN-2014:16:50 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:1 Reference:PPK

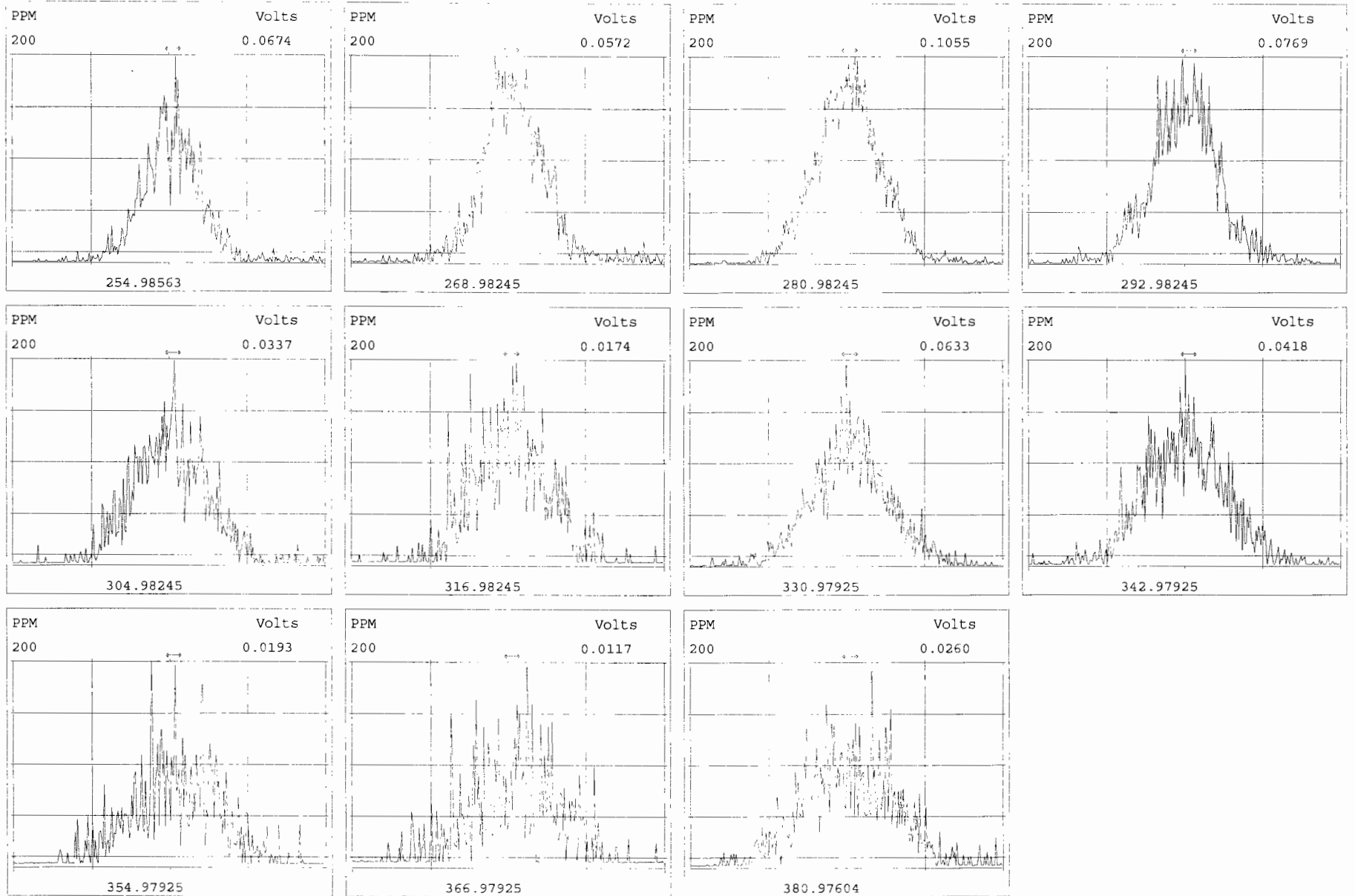


Peak Locate Examination:24-JUN-2014:16:51 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:2 Reference:PFK

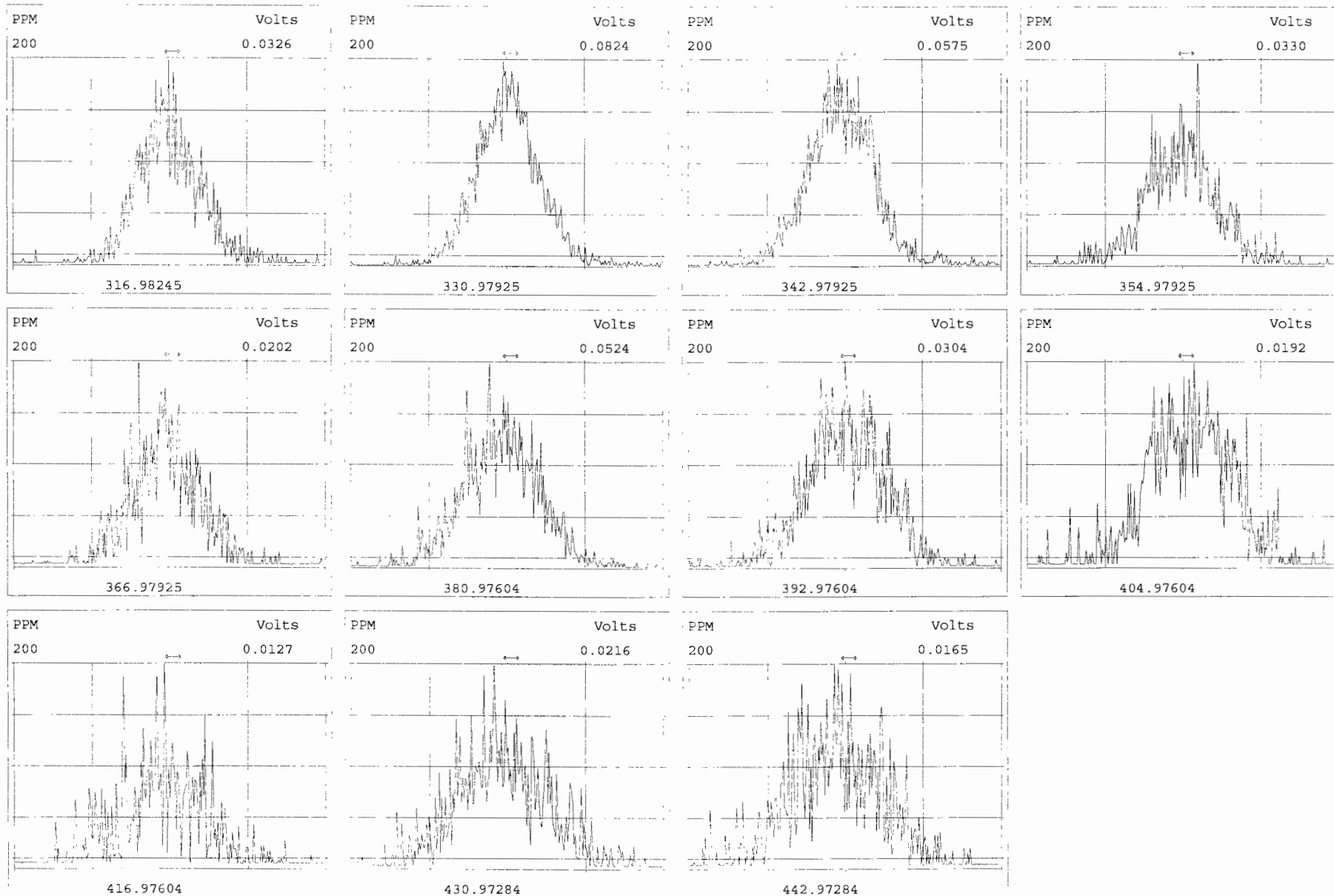






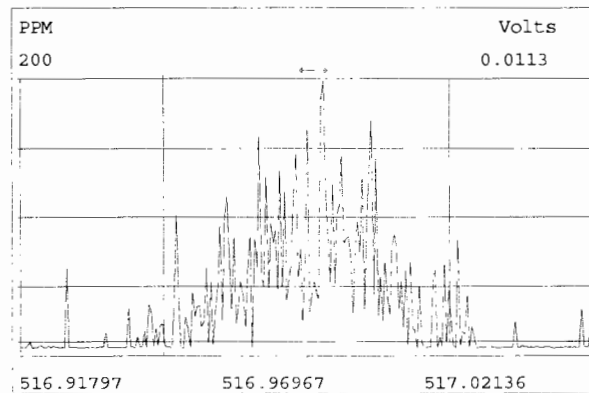
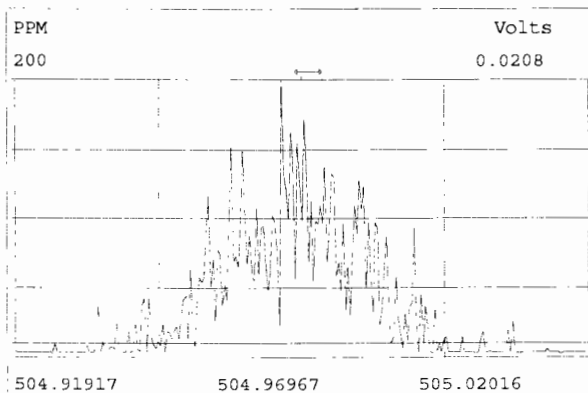
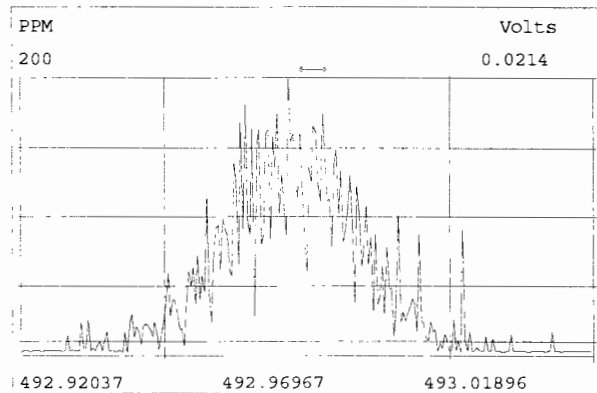
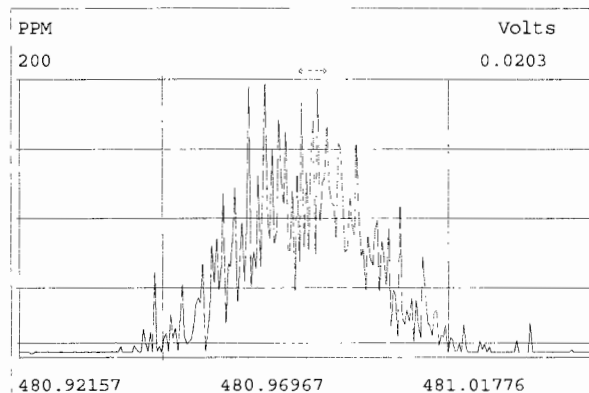
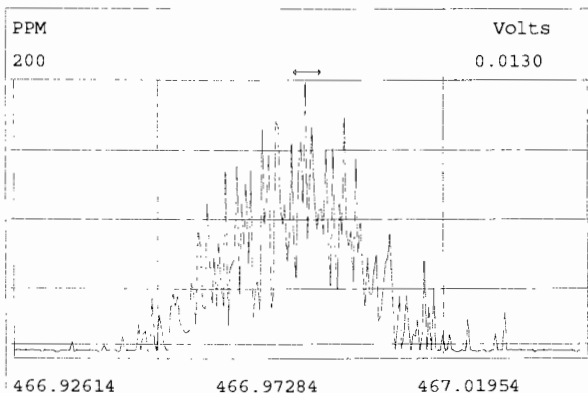
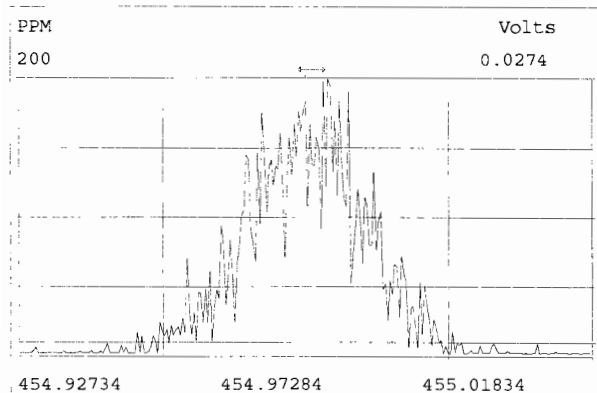
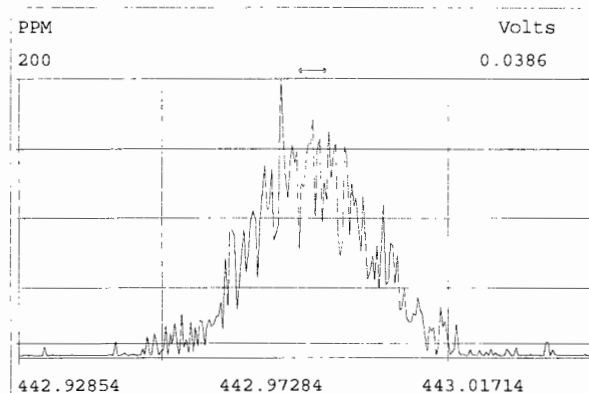
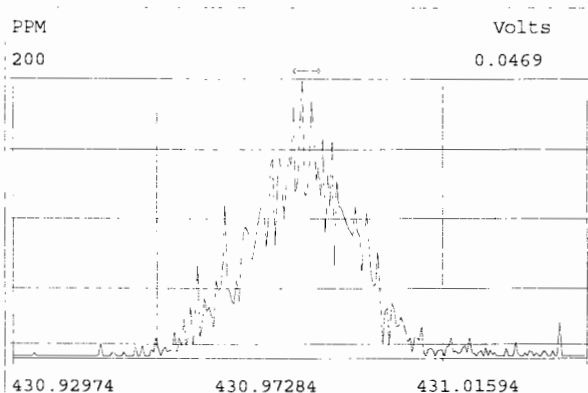
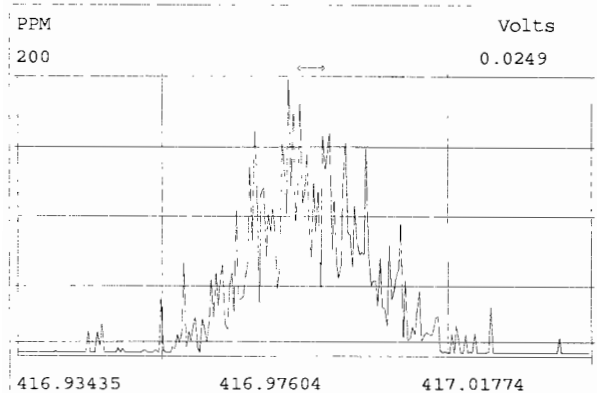
Peak Locate Examination:24-JUN-2014:16:52 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:4 Reference:PFK

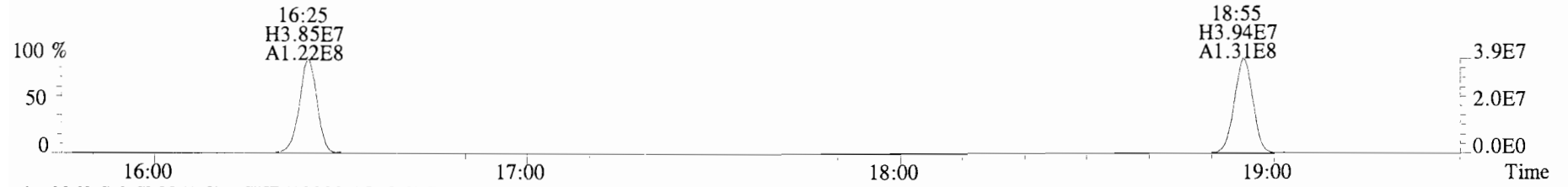


Peak Locate Examination:24-JUN-2014:16:53 File:RES\_CHECK

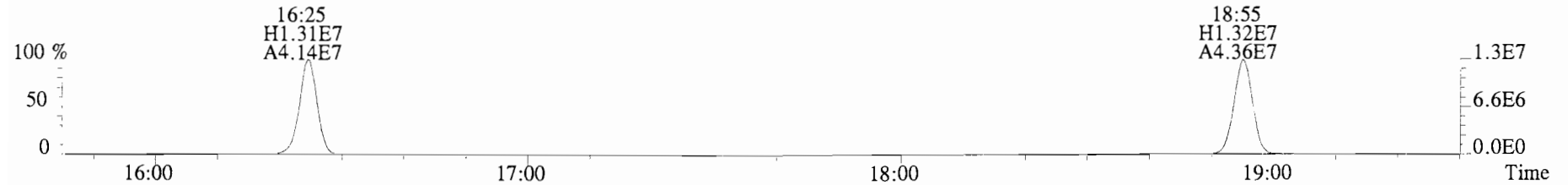
Experiment:PCB\_ZB1 Function:5 Reference:PFK



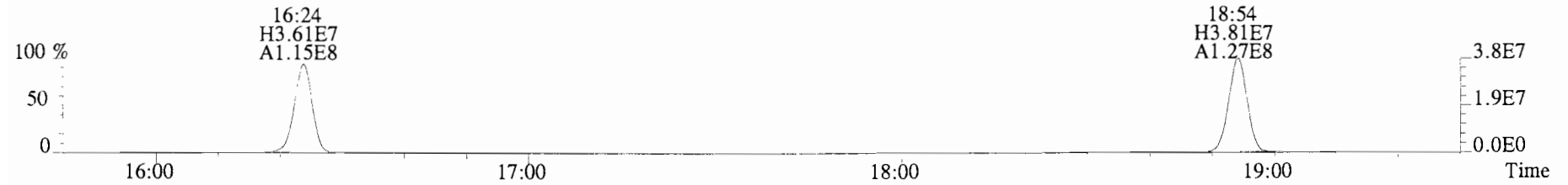
File:140623E4 #1-729 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2580.0,0.00%,F,F)



190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4088.0,0.00%,F,F)



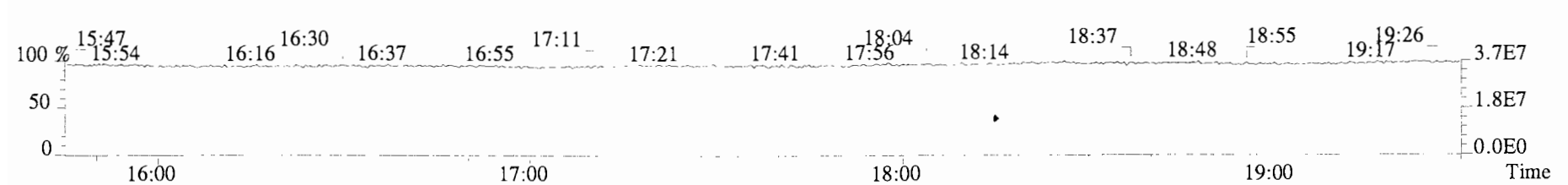
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4536.0,0.00%,F,F)



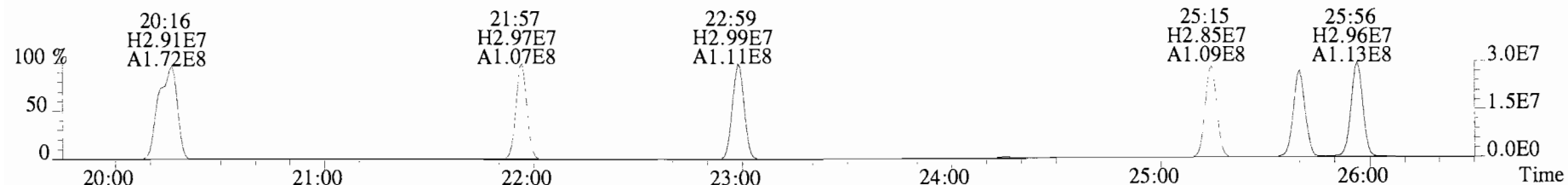
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,180248.0,0.00%,F,F)



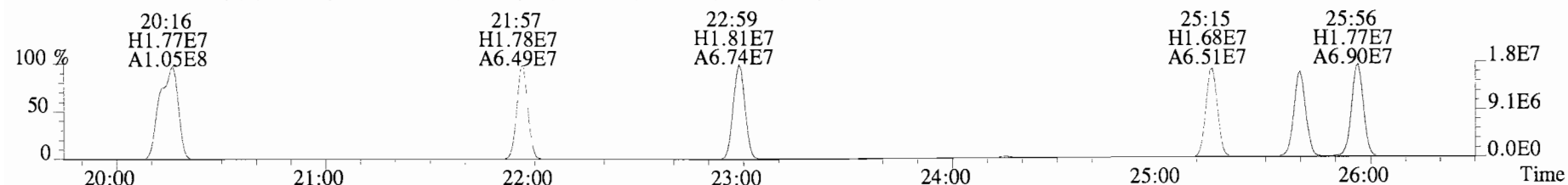
180.9880 S:2



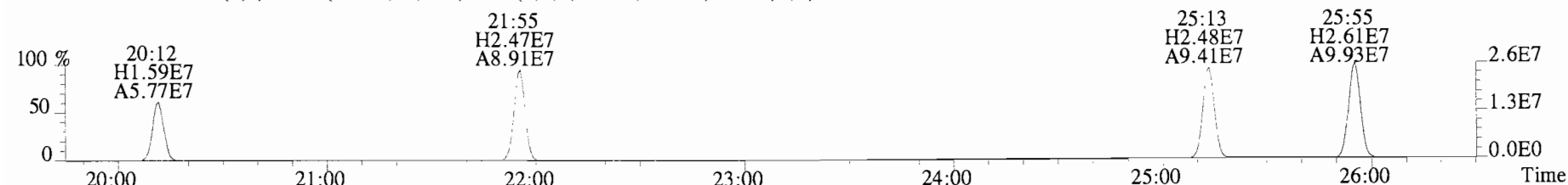
File:140623E4 #1-749 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8016.0,0.00%,F,F)



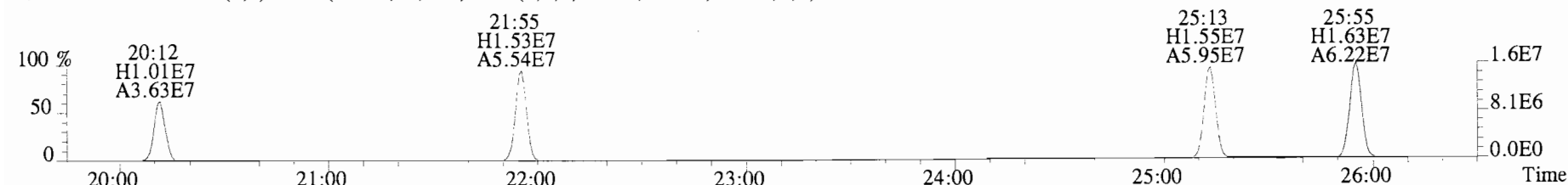
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13808.0,0.00%,F,F)



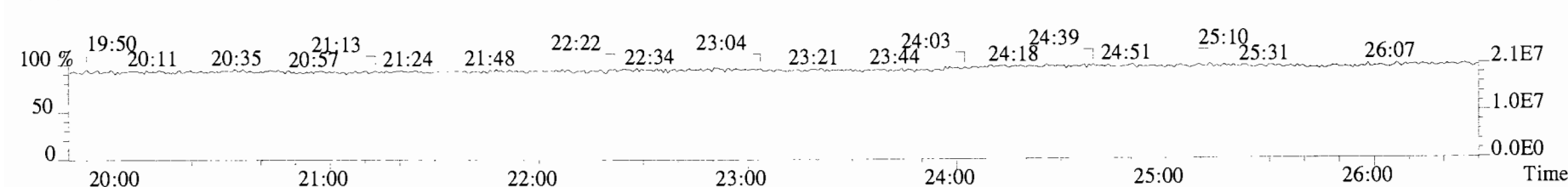
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



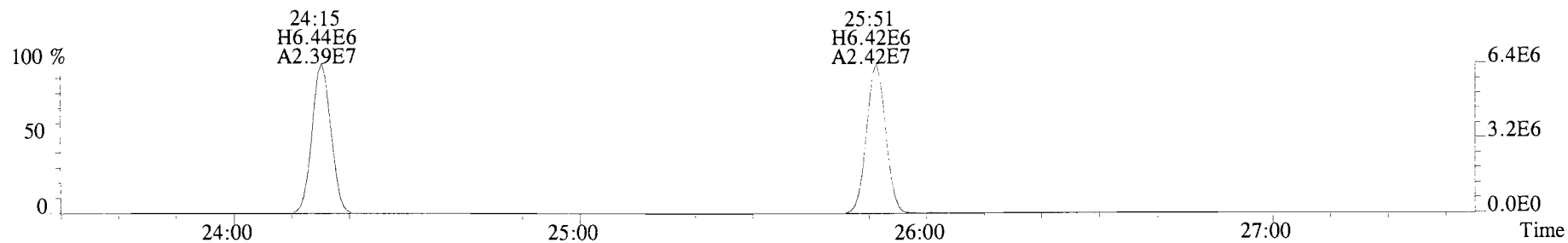
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5220.0,0.00%,F,F)



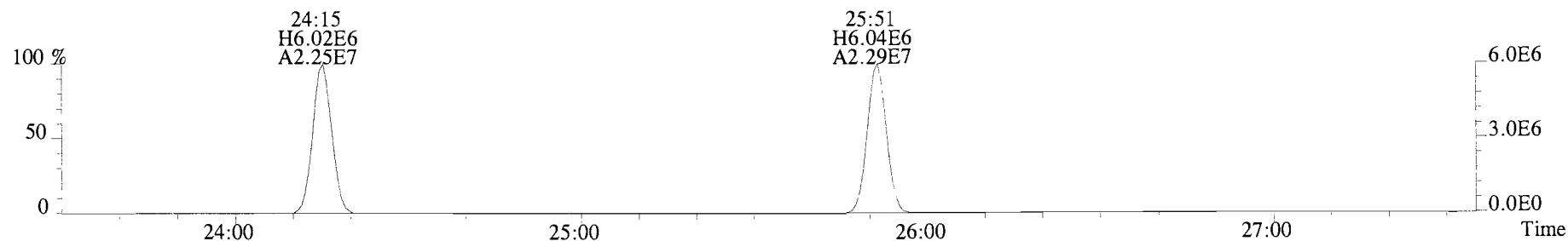
230.9856 S:2 F:2



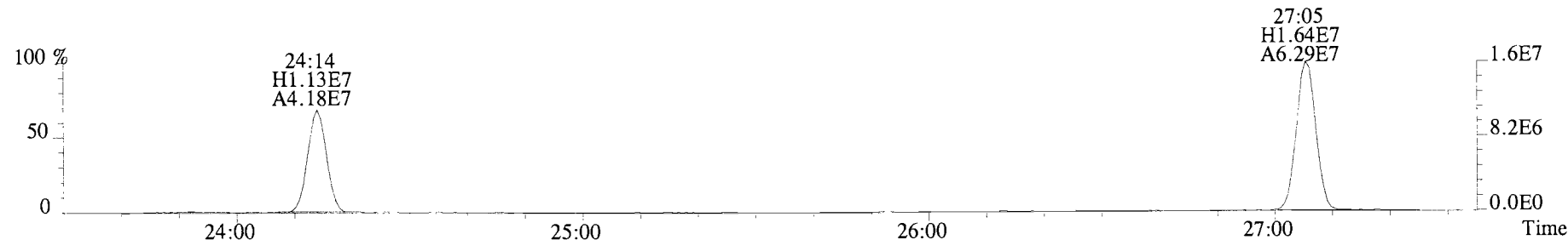
File:140623E4 #1-749 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2480.0,0.00%,F,F)



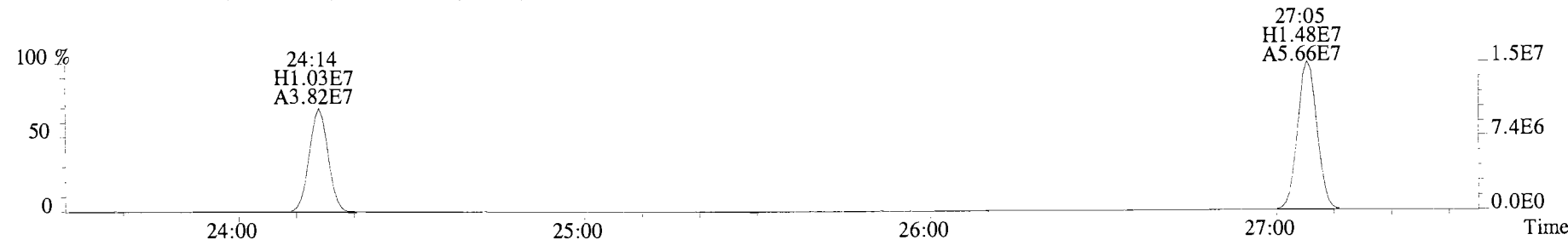
257.9584 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1840.0,0.00%,F,F)



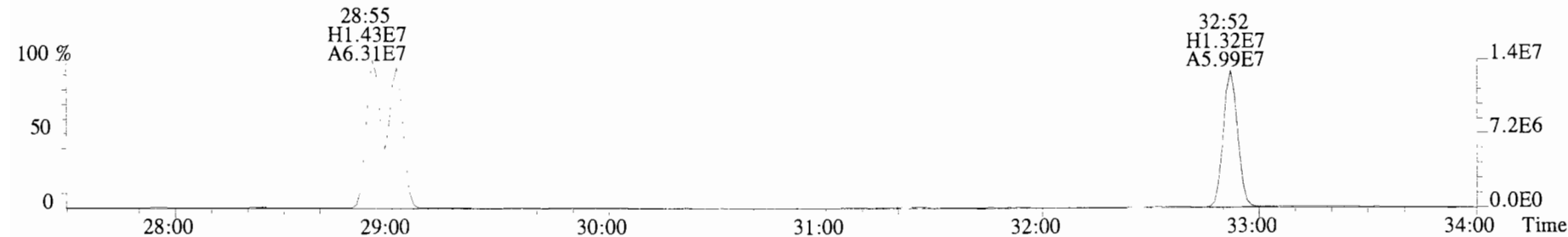
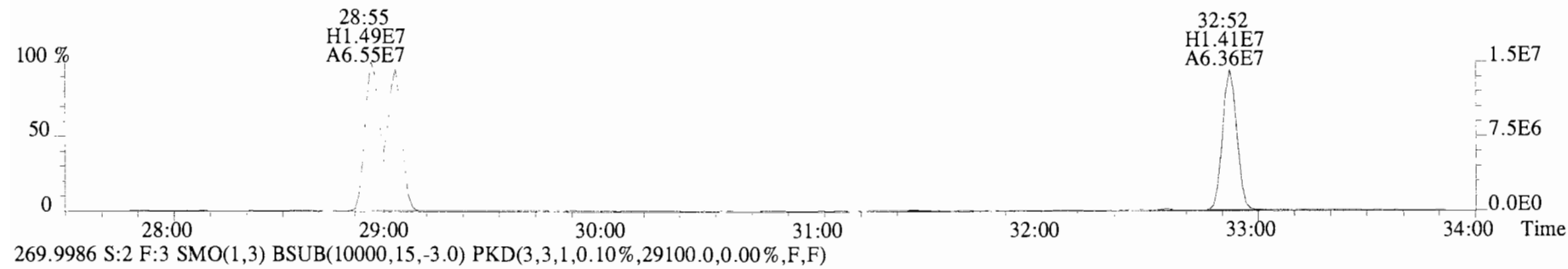
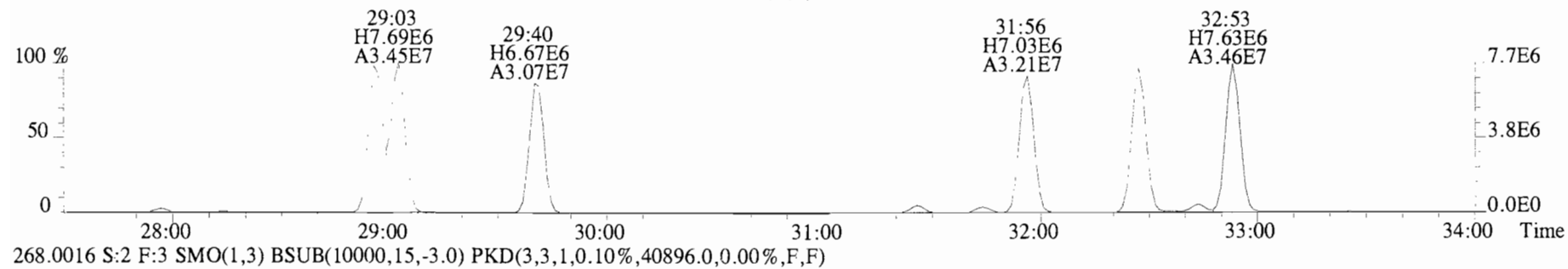
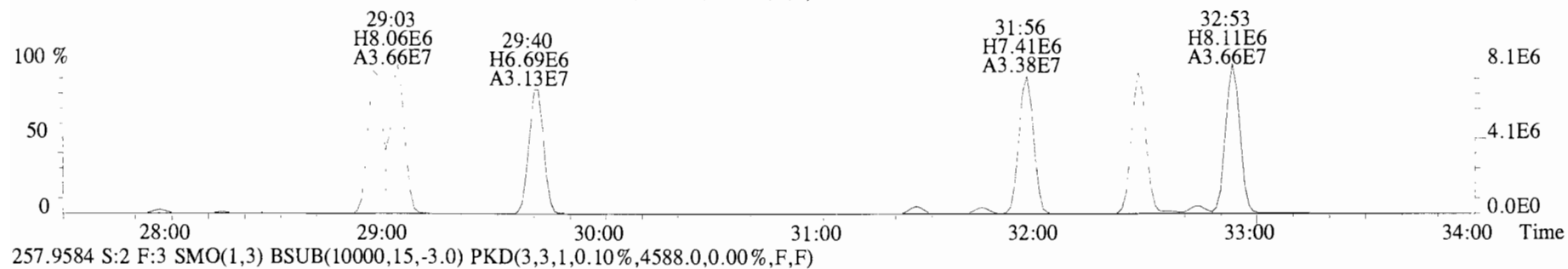
268.0016 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29568.0,0.00%,F,F)



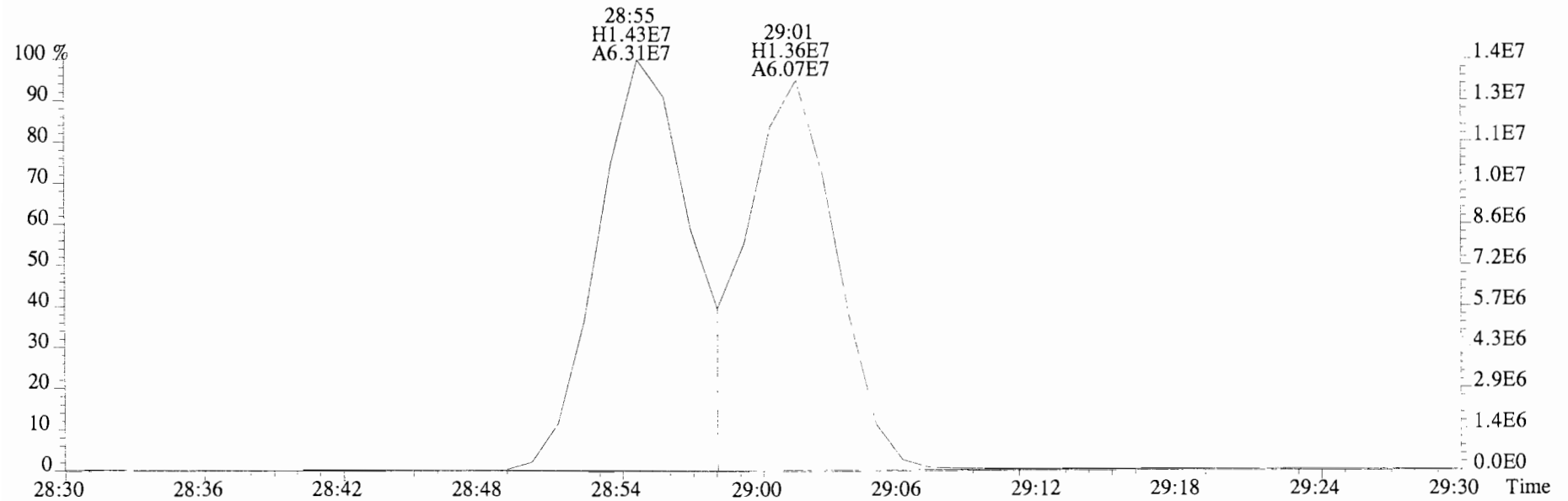
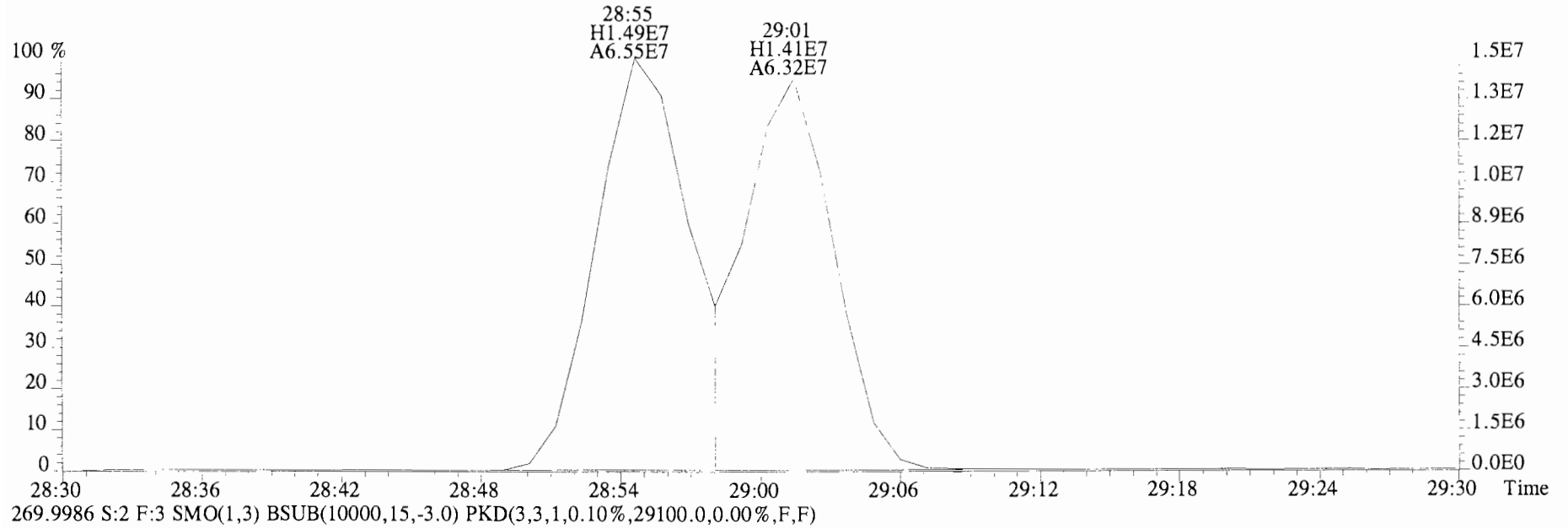
269.9986 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,18996.0,0.00%,F,F)



File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4348.0,0.00%,F,F)

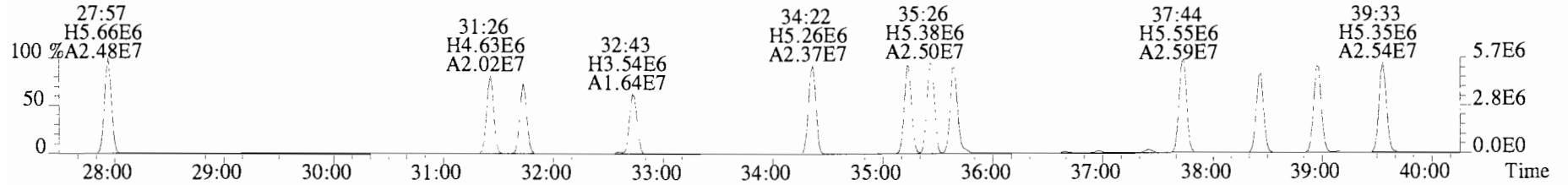


File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40896.0,0.00%,F,F)

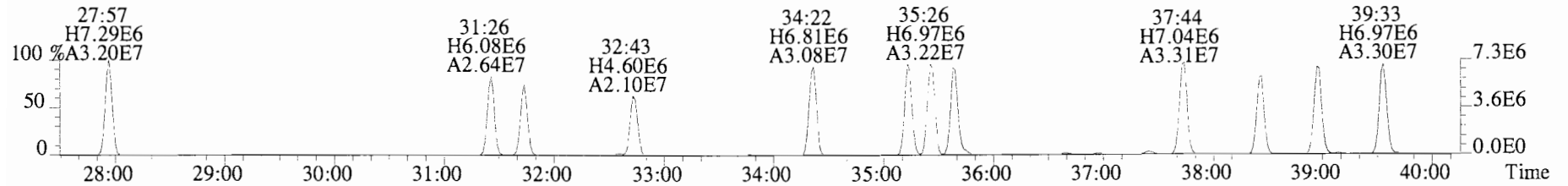




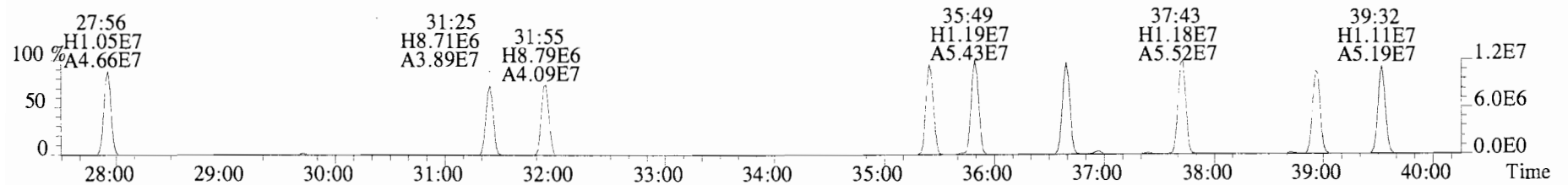
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3040.0,0.00%,F,F)



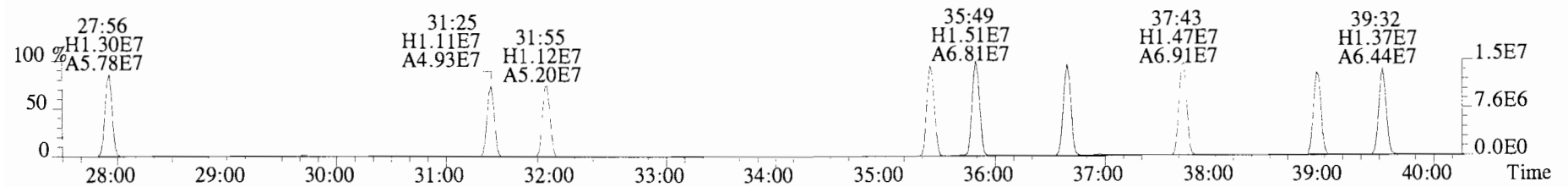
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4612.0,0.00%,F,F)



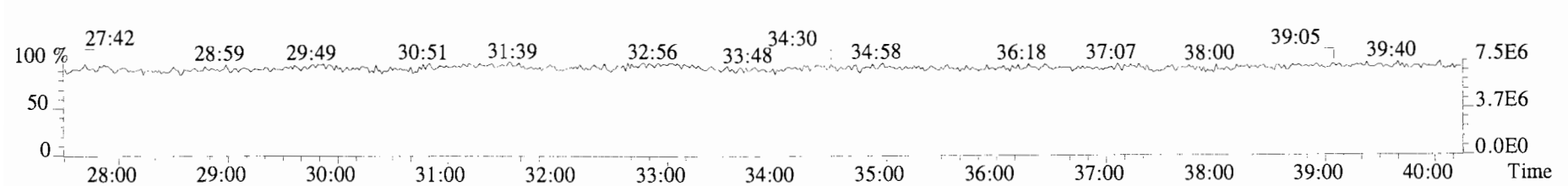
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



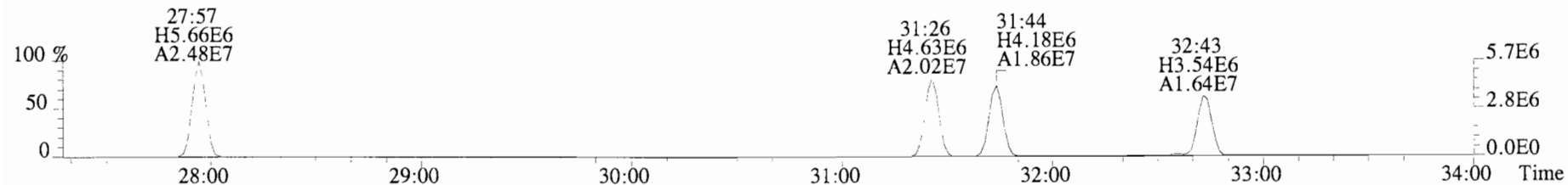
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7600.0,0.00%,F,F)



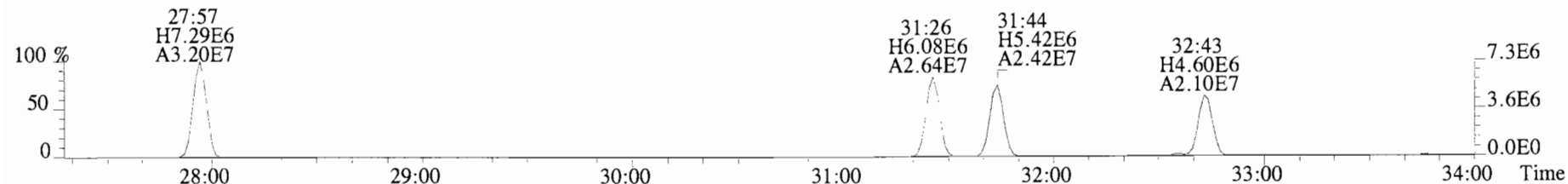
330.9792 S:2 F:3



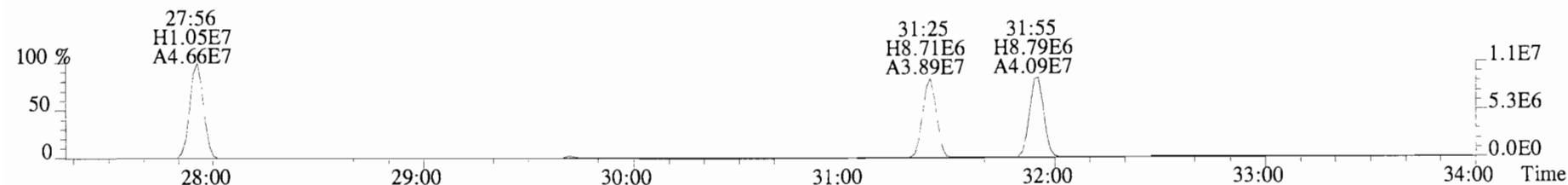
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3040.0,0.00%,F,F)



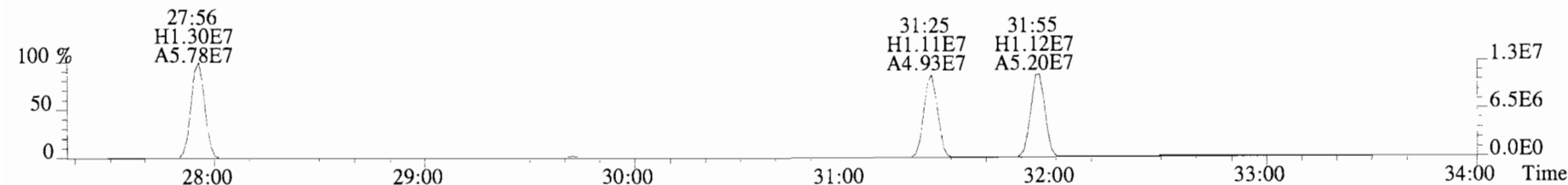
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4612.0,0.00%,F,F)



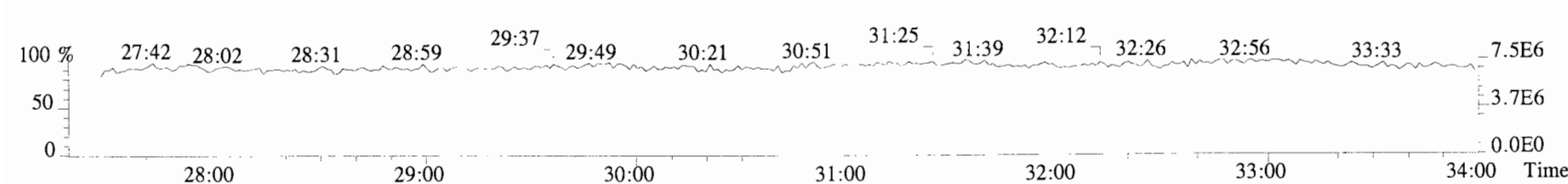
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



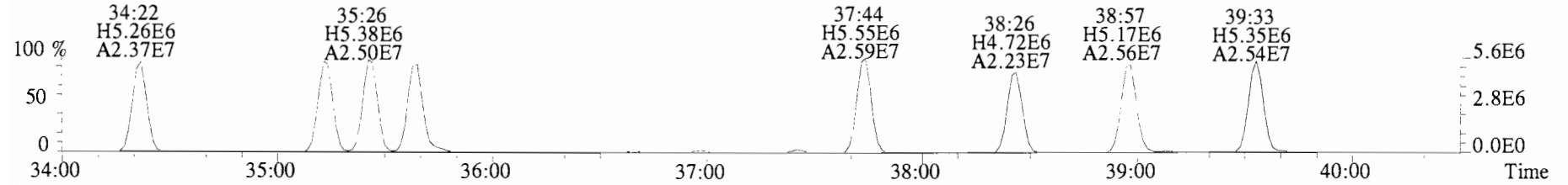
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7600.0,0.00%,F,F)



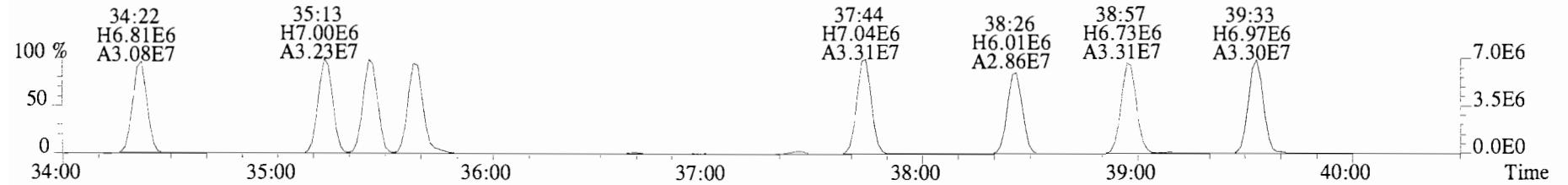
330.9792 S:2 F:3



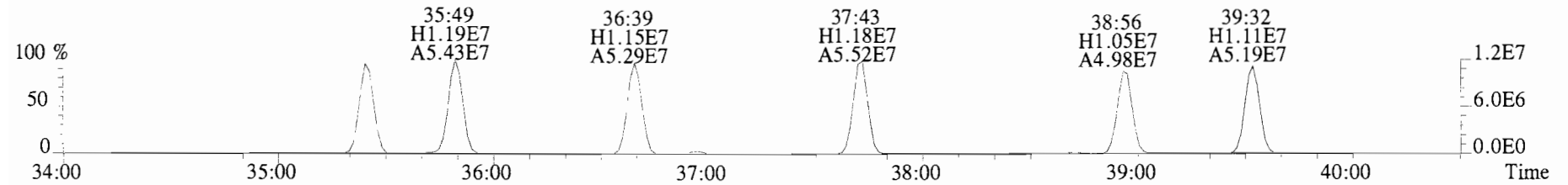
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3040.0,0.00%,F,F)



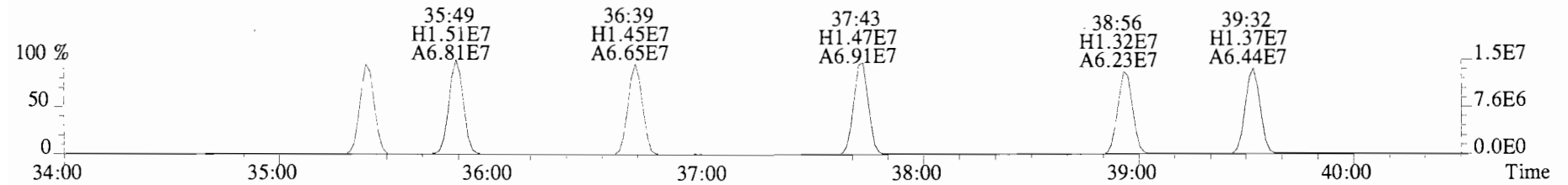
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4612.0,0.00%,F,F)



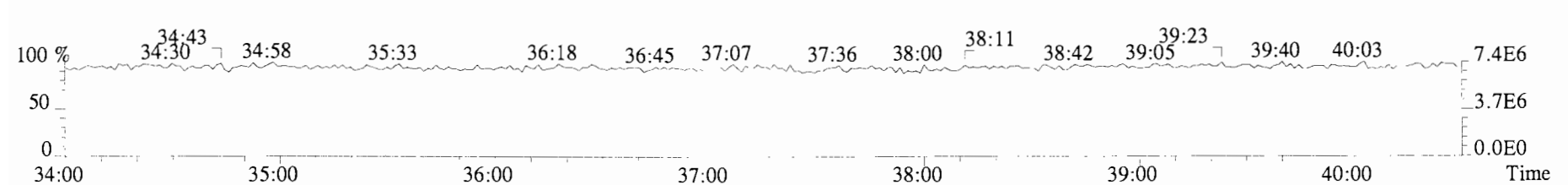
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



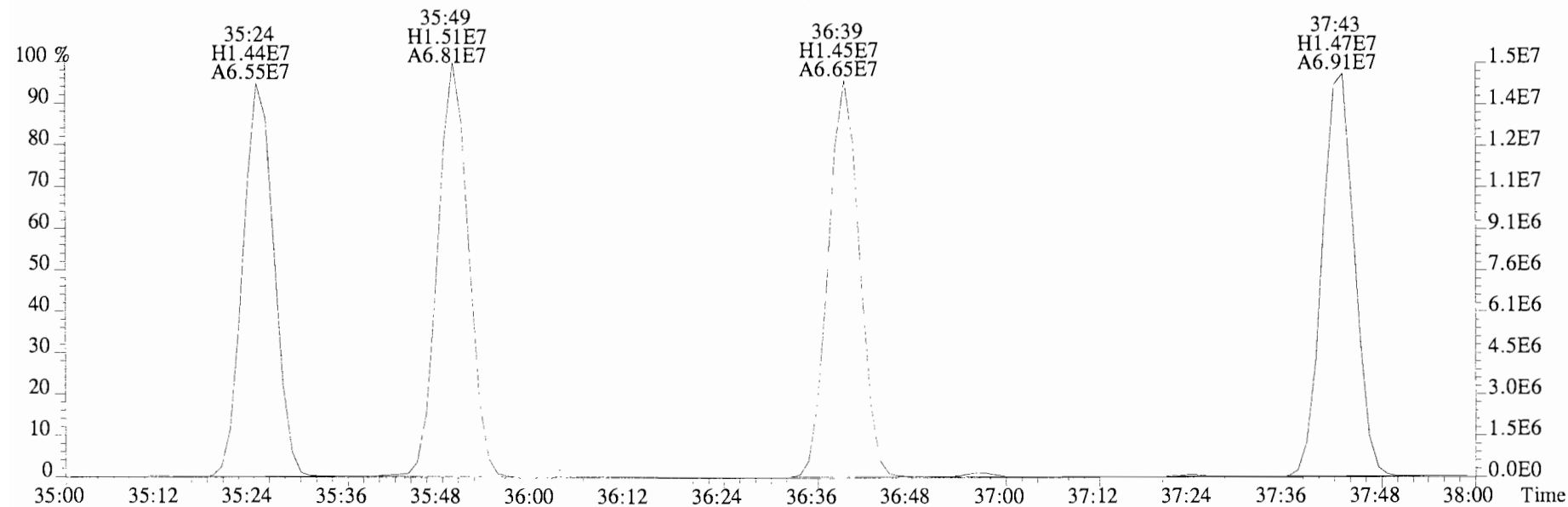
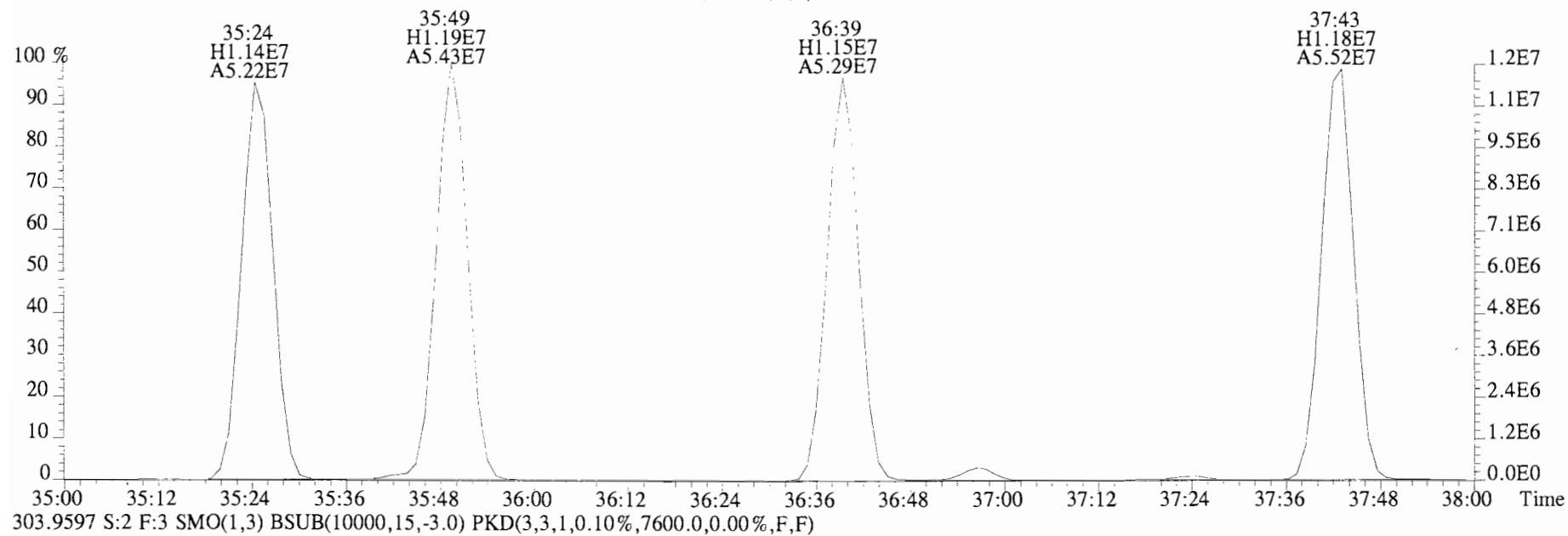
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7600.0,0.00%,F,F)



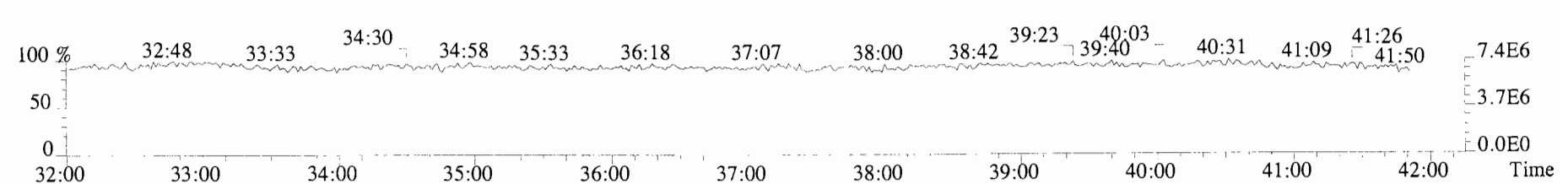
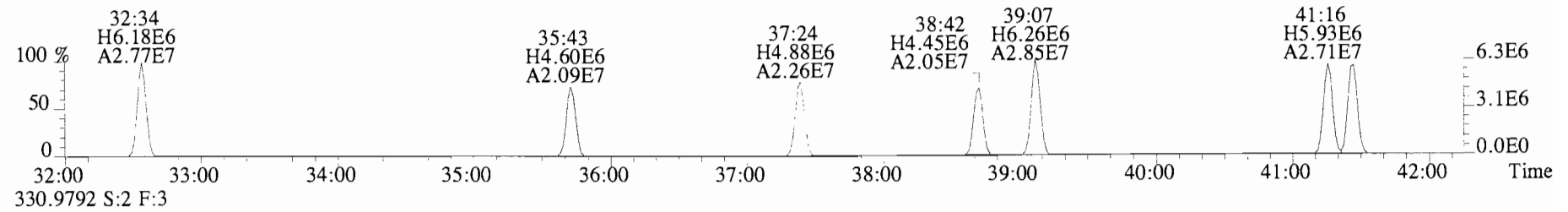
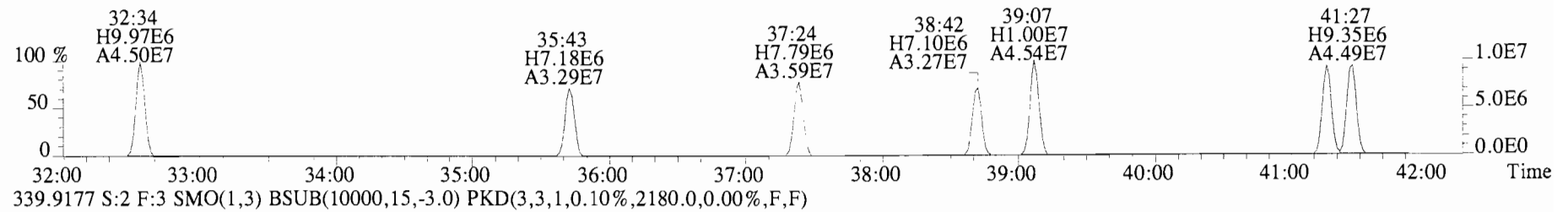
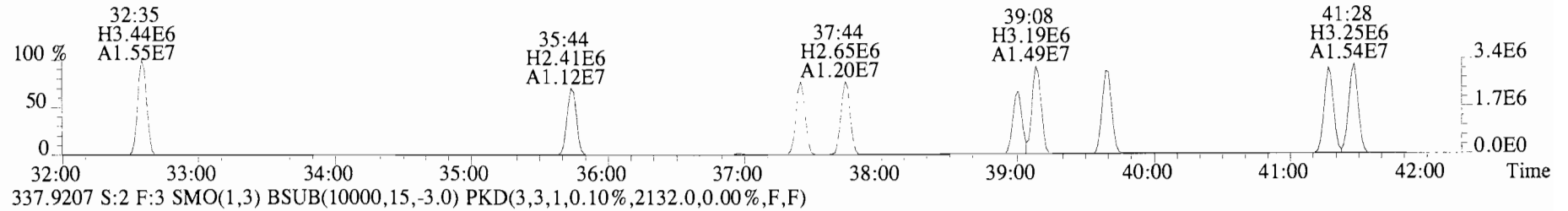
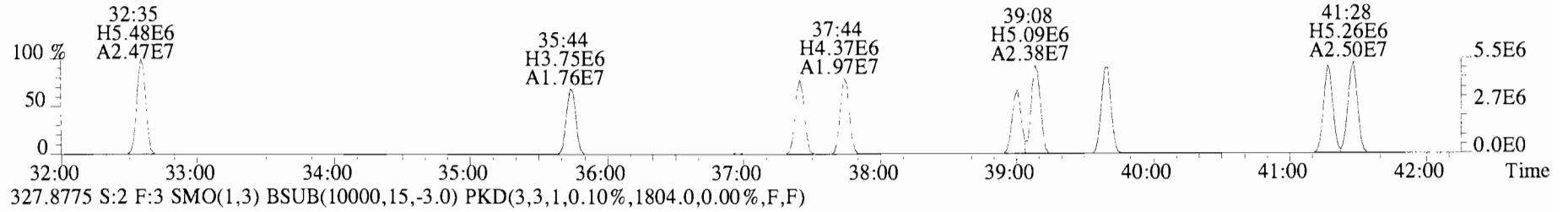
330.9792 S:2 F:3



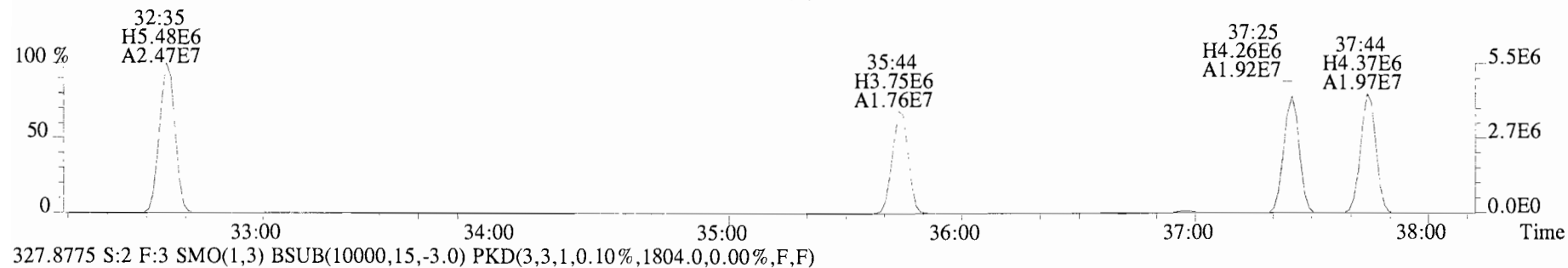
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9352.0,0.00%,F,F)



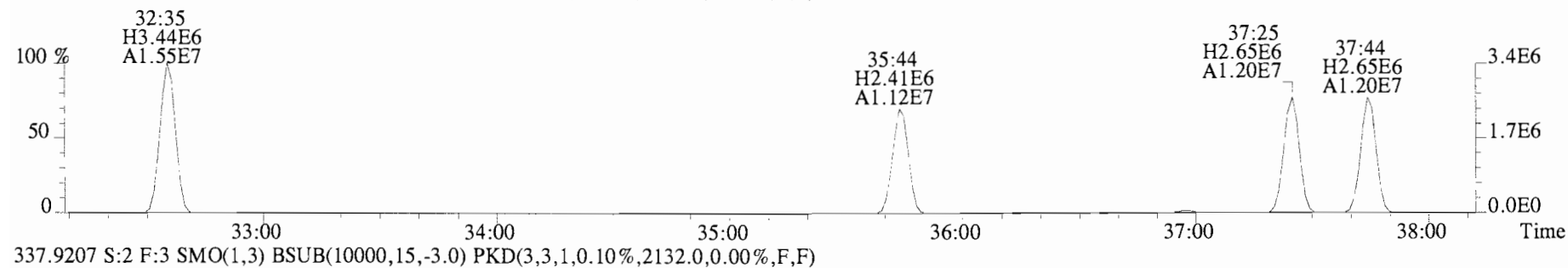
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



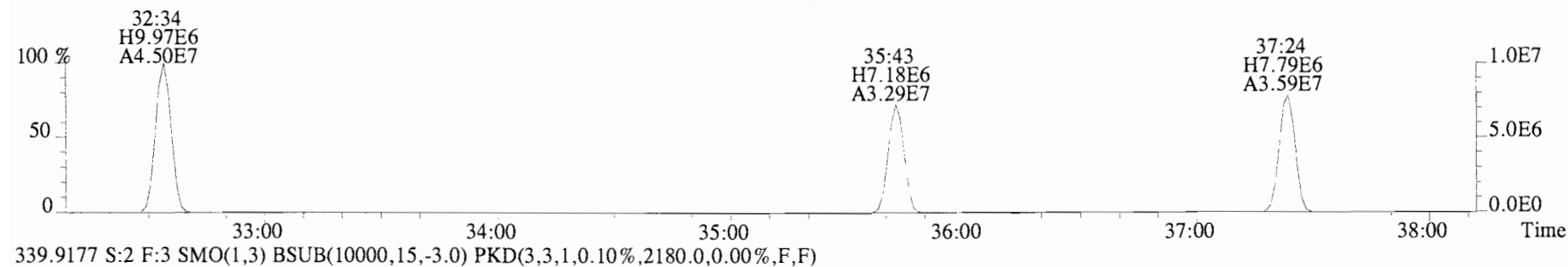
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



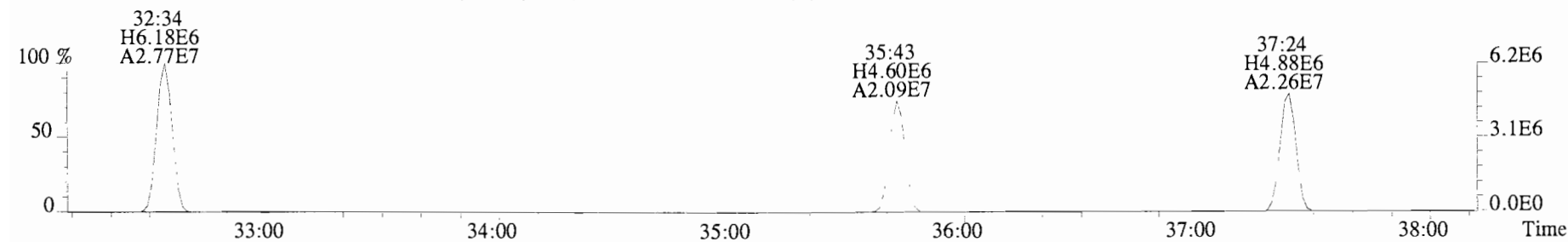
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



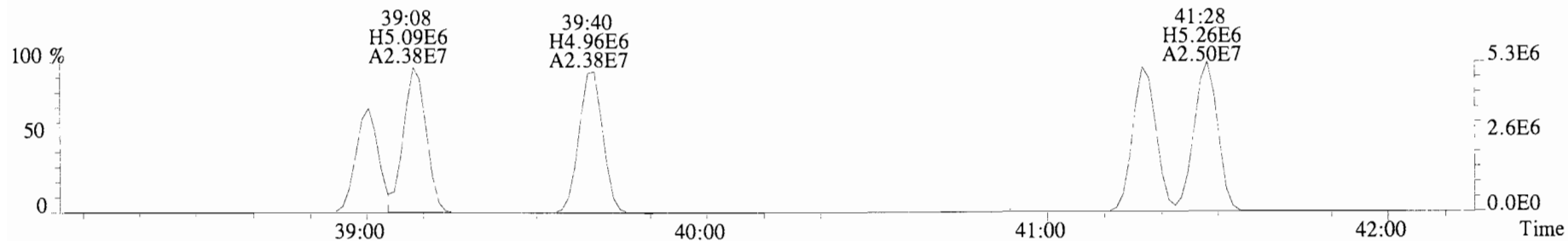
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



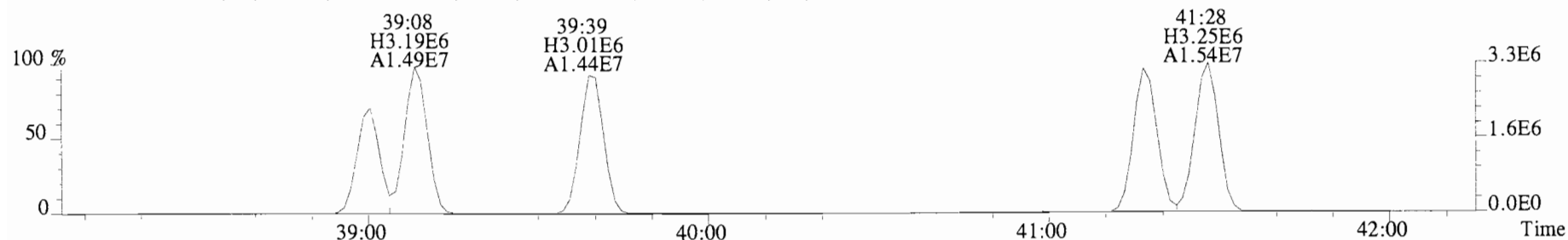
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)



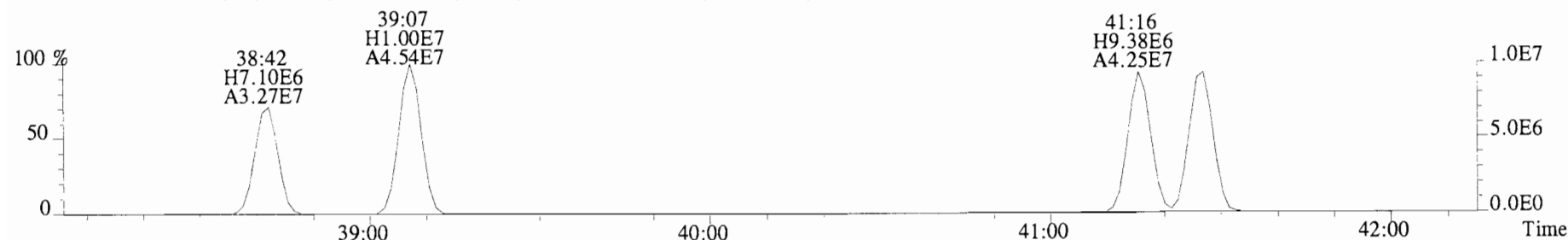
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



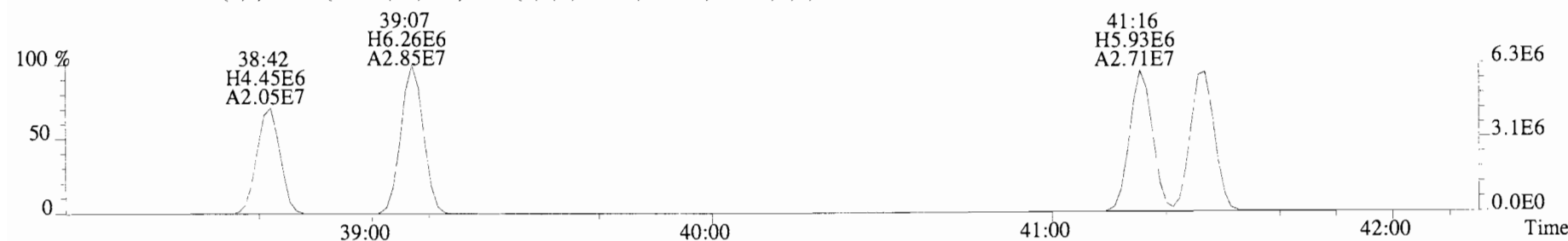
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



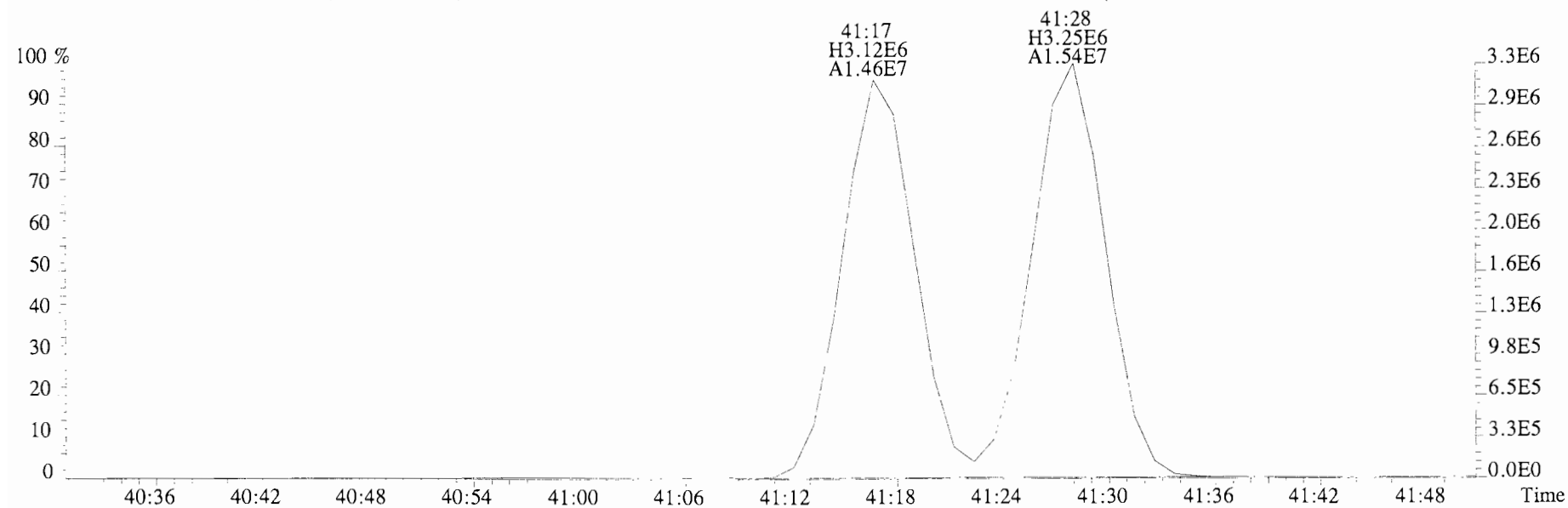
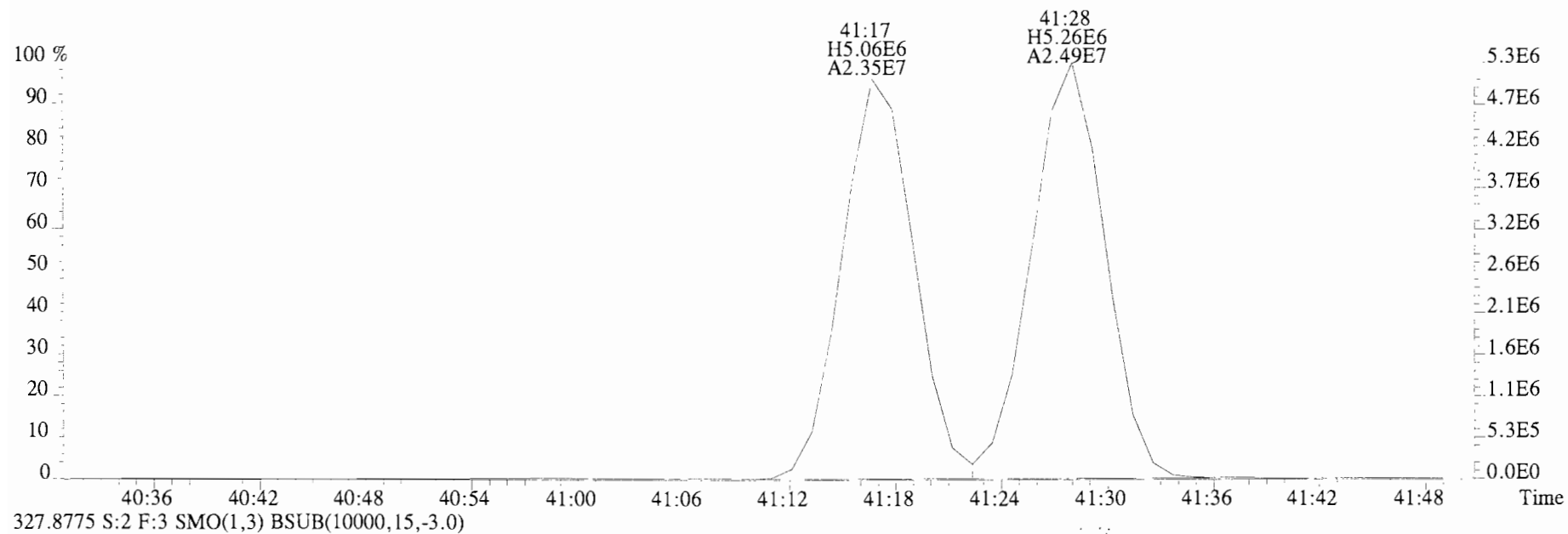
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2180.0,0.00%,F,F)

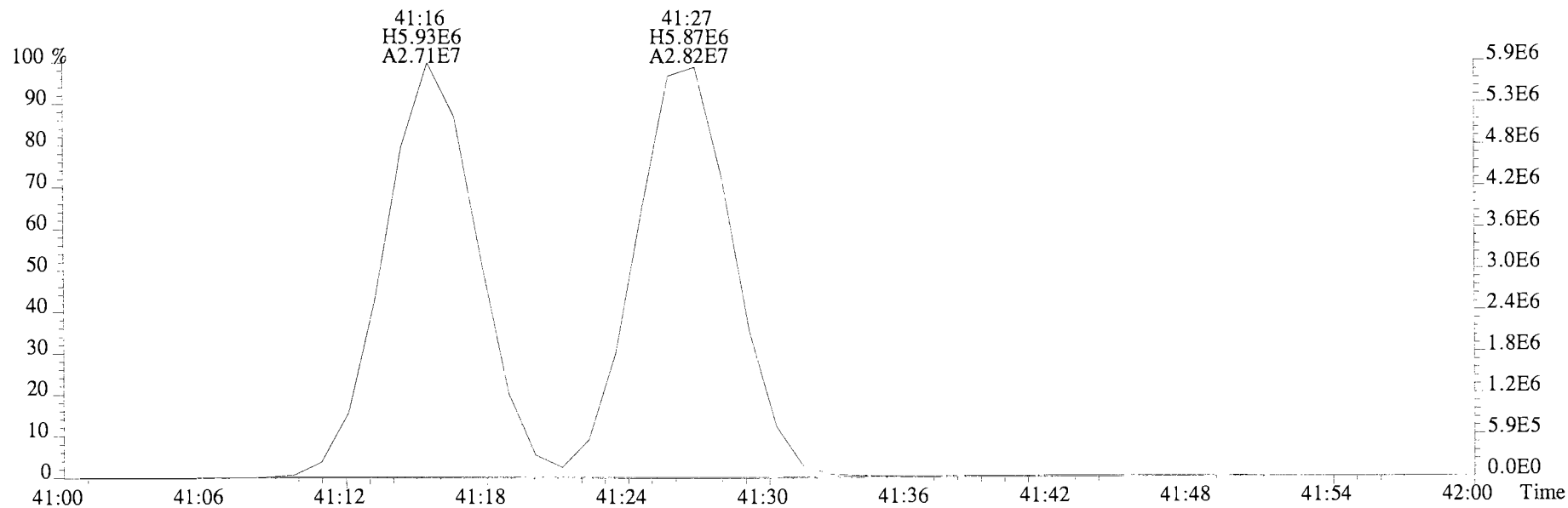
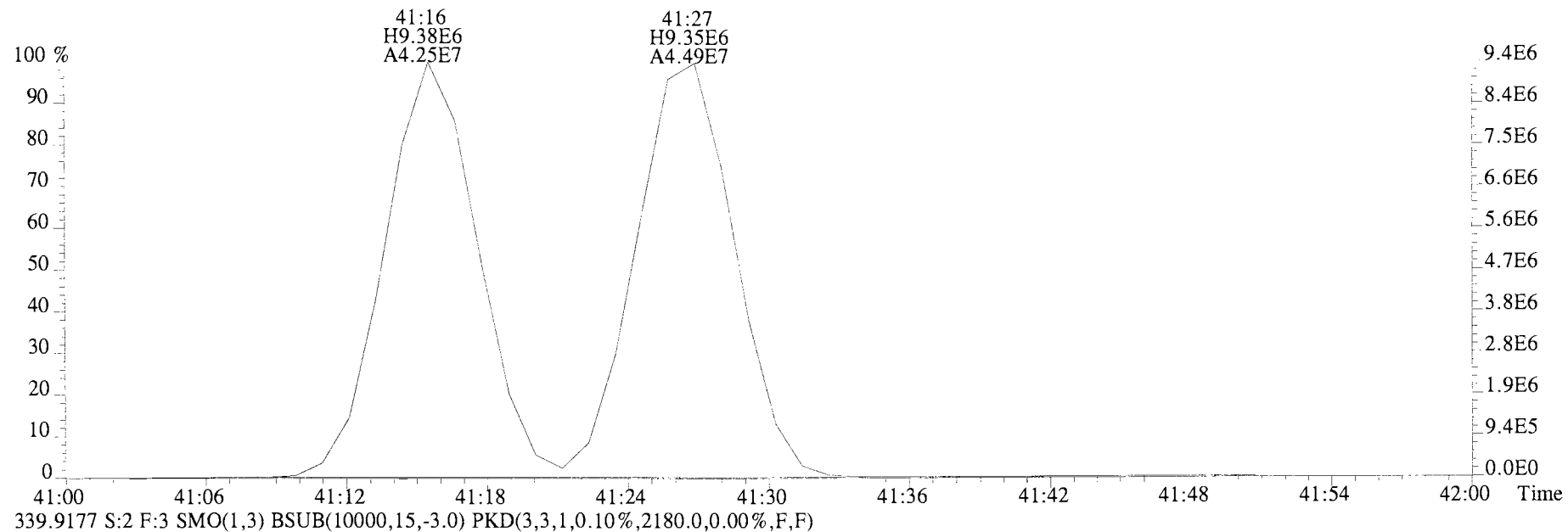


File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0)

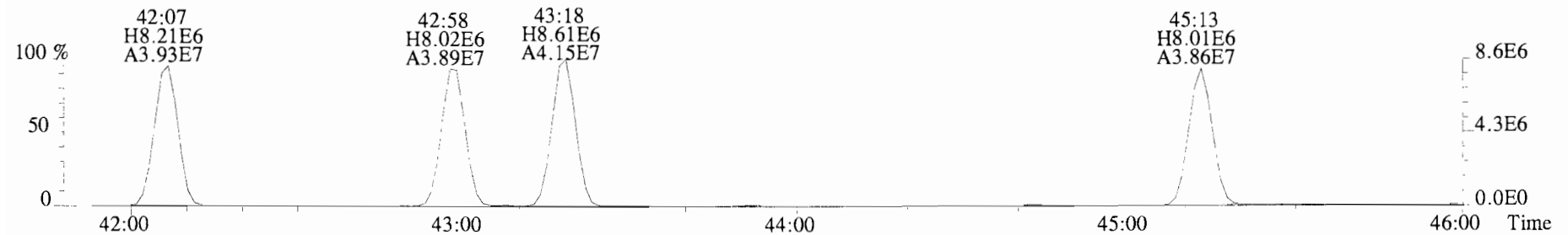
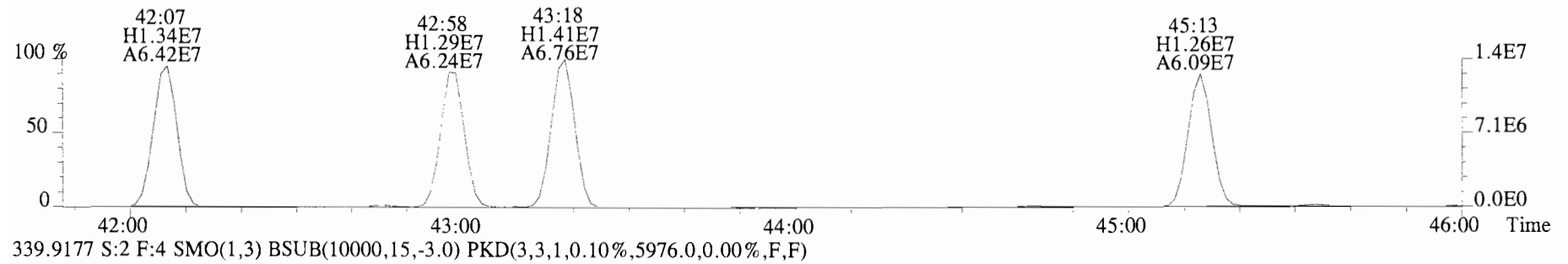
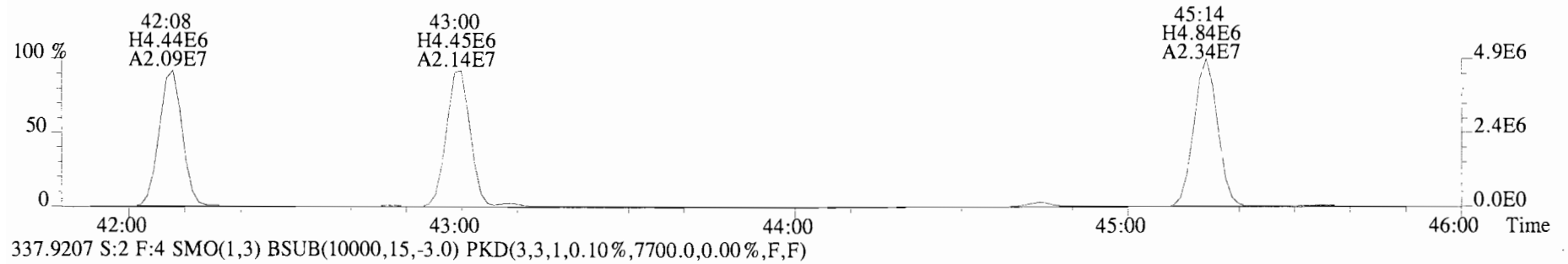
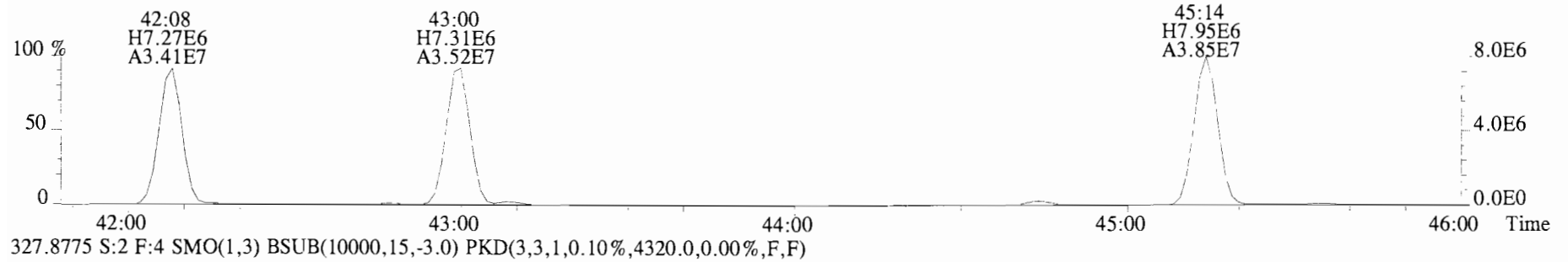




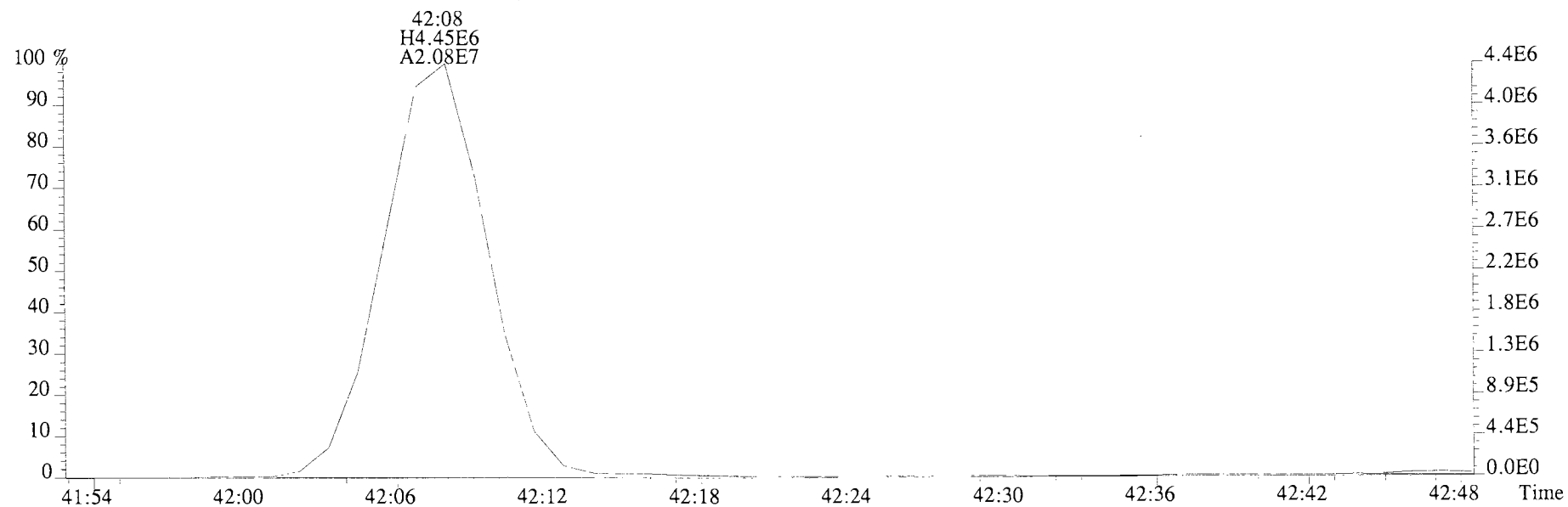
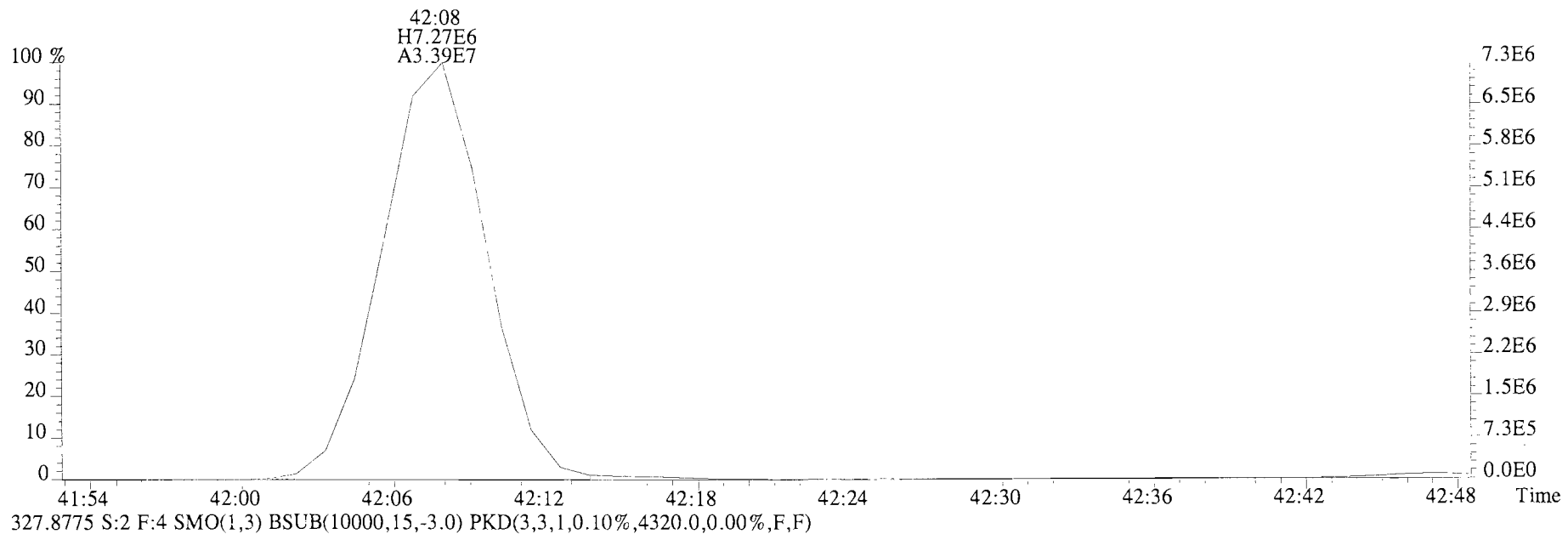
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2132.0,0.00%,F,F)



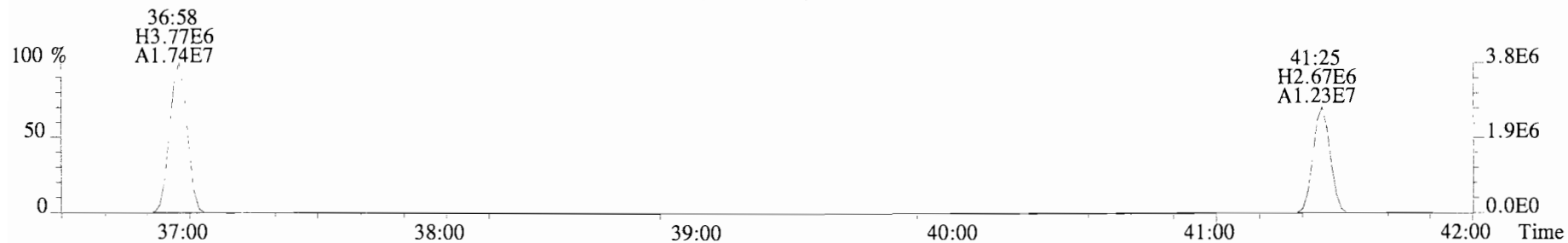
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3944.0,0.00%,F,F)



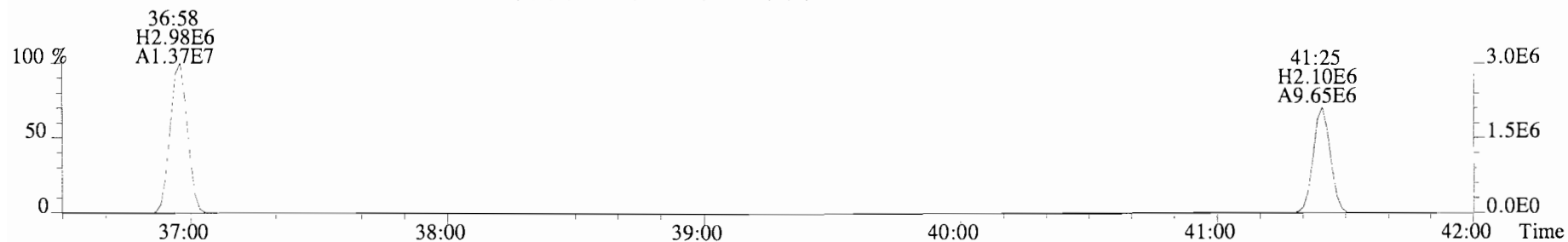
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3944.0,0.00%,F,F)



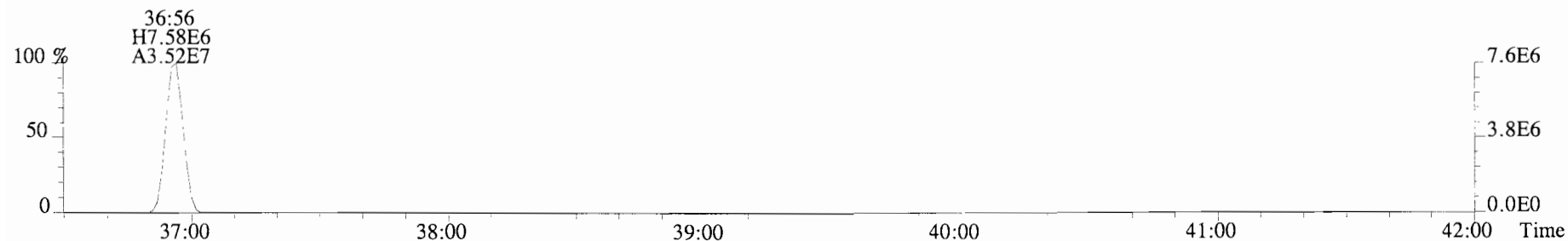
File:140623E4 #1-761 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1656.0,0.00%,F,F)



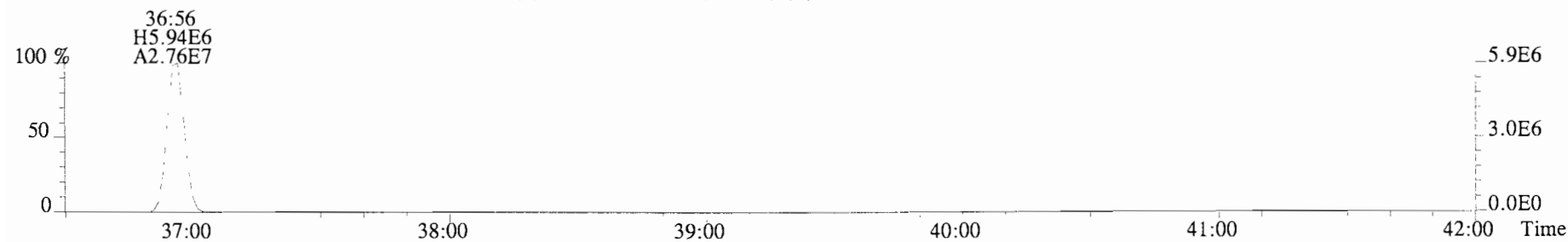
361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)



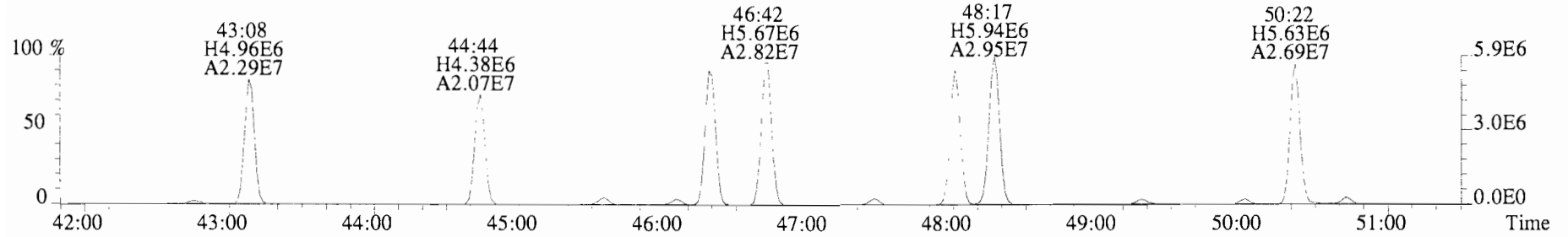
371.8817 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



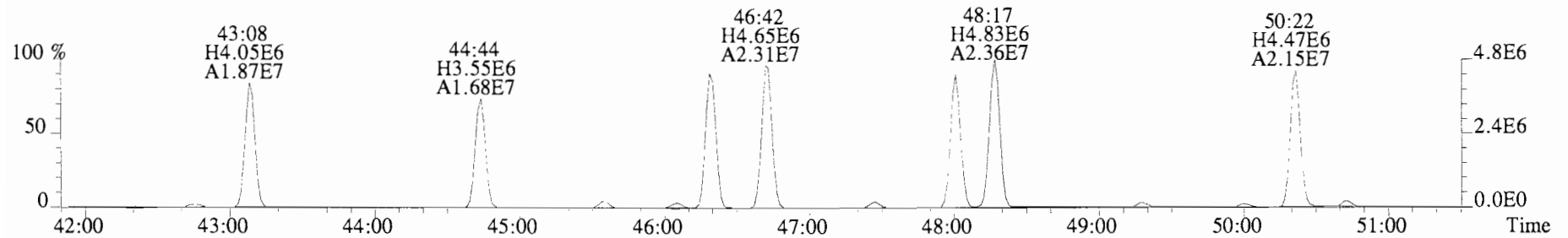
373.8788 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1644.0,0.00%,F,F)



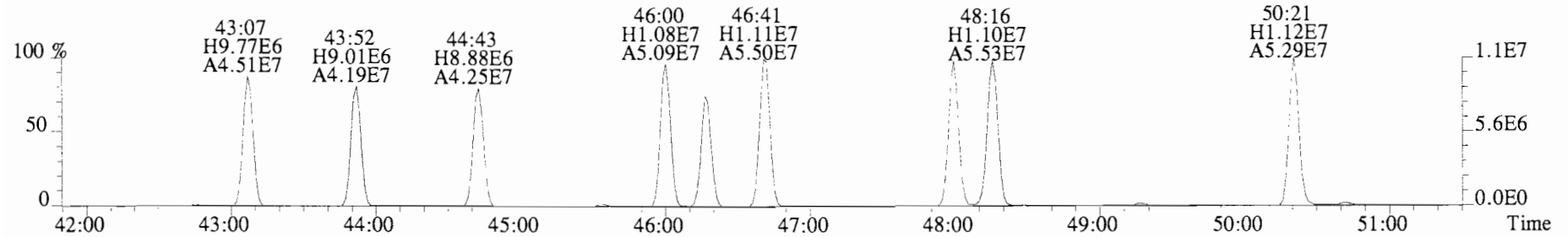
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5168.0,0.00%,F,F)



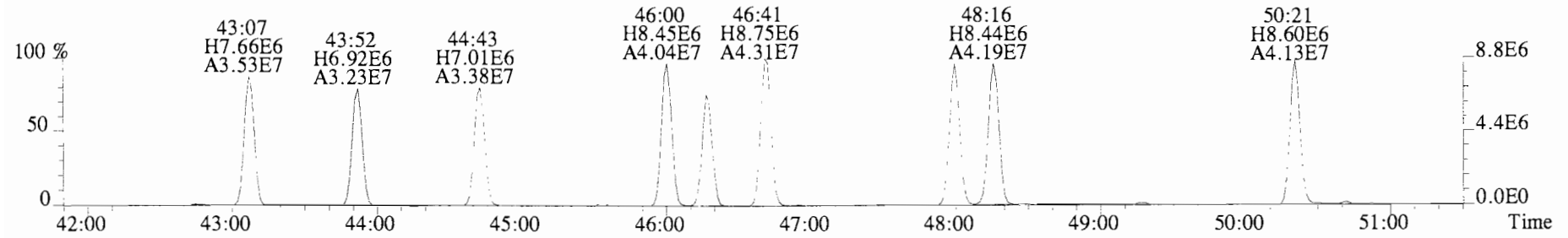
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5636.0,0.00%,F,F)



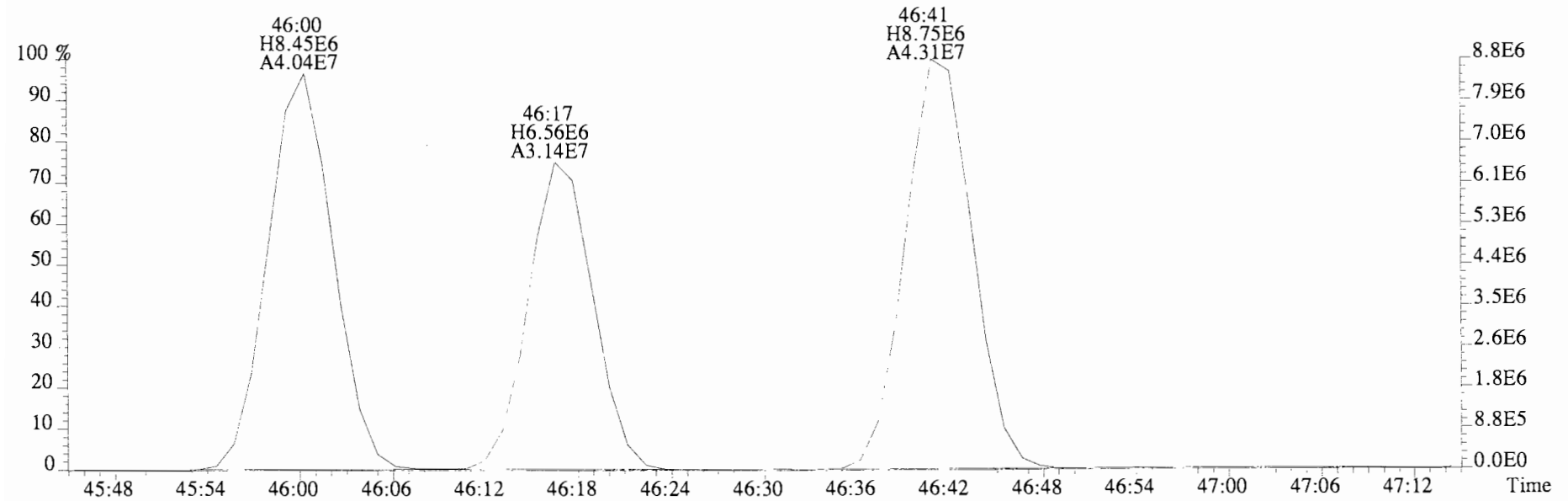
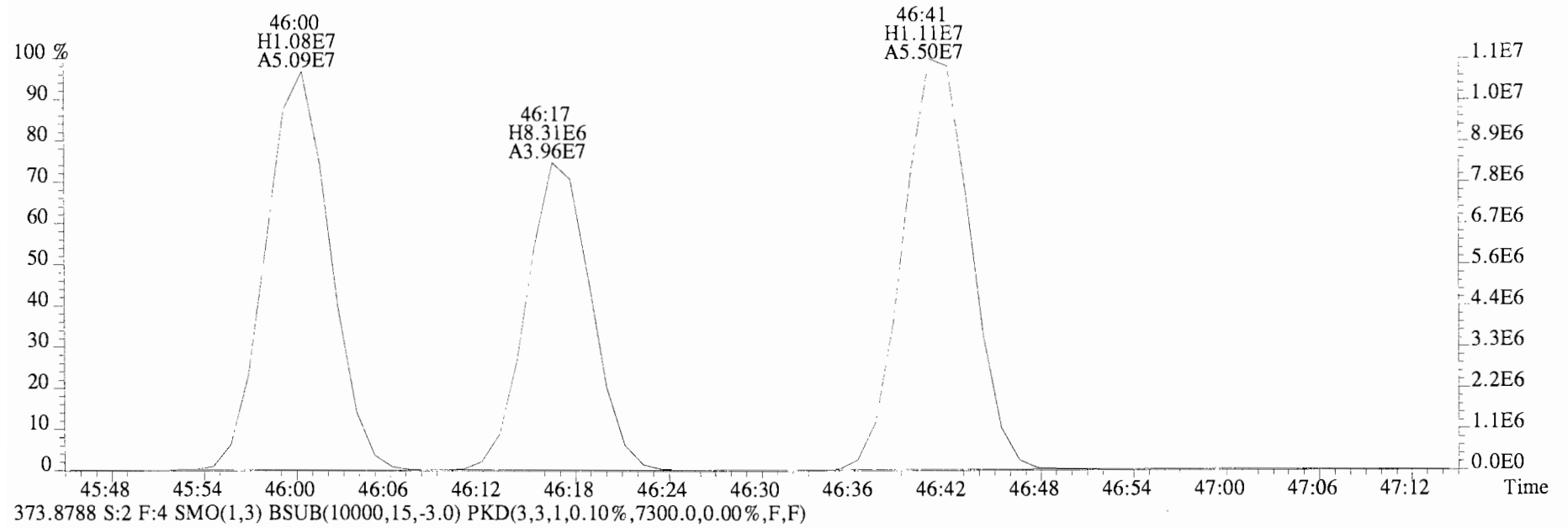
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10212.0,0.00%,F,F)



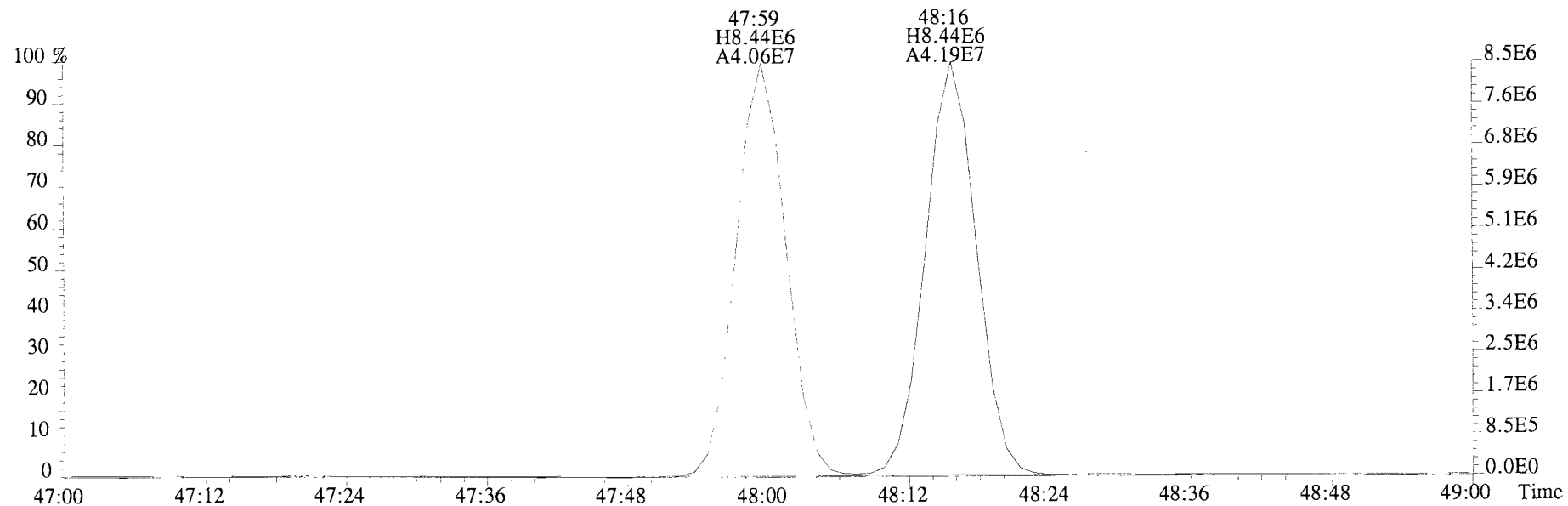
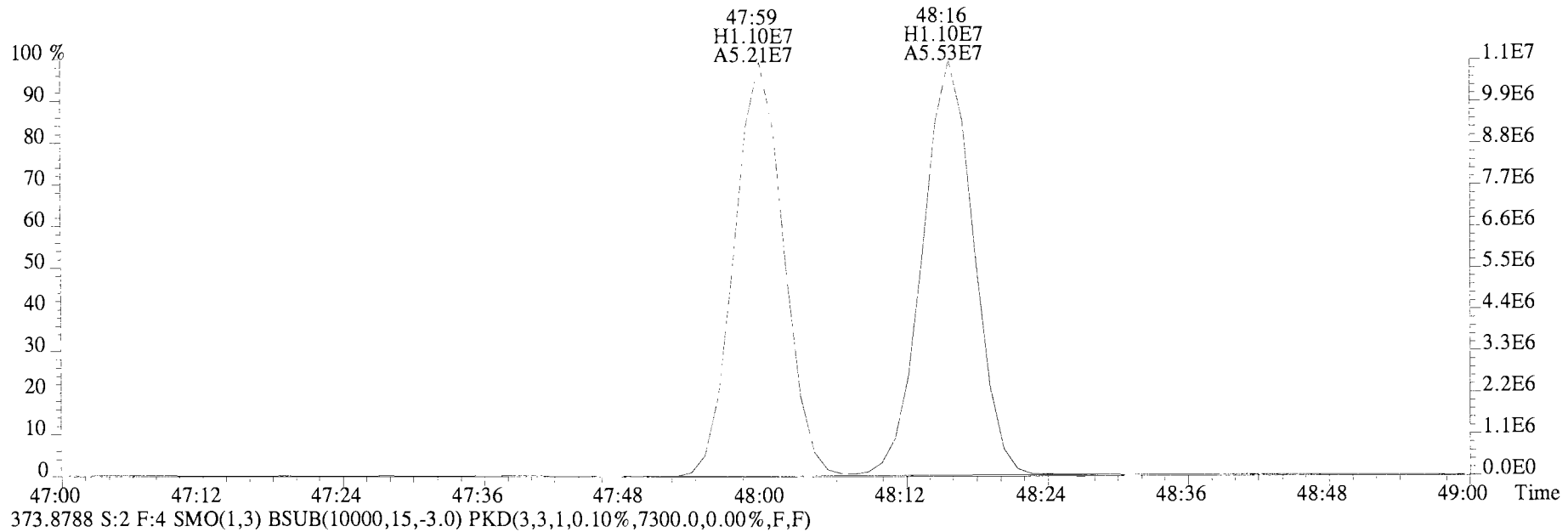
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7300.0,0.00%,F,F)



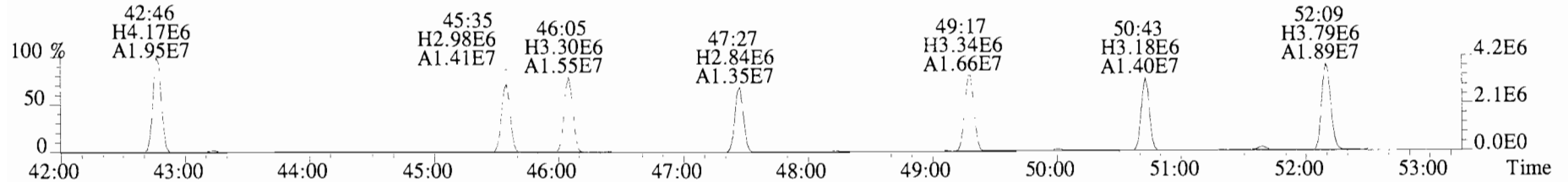
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10212.0,0.00%,F,F)



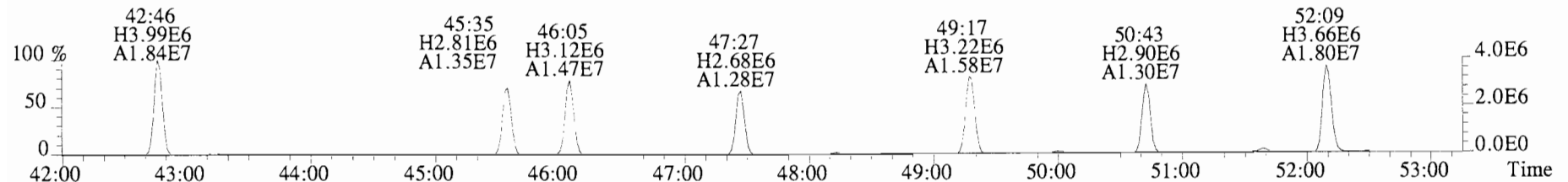
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10212.0,0.00%,F,F)



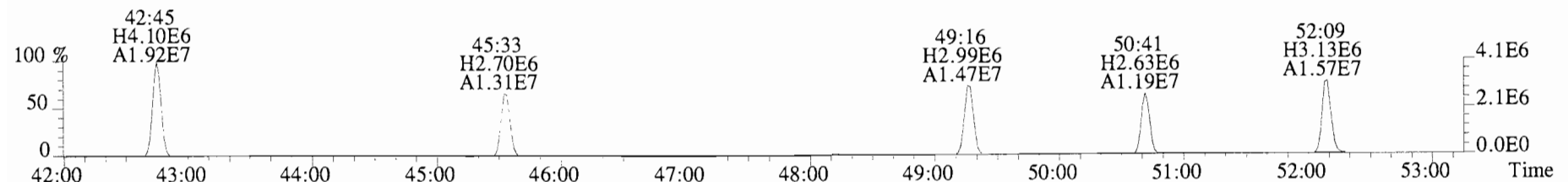
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2472.0,0.00%,F,F)



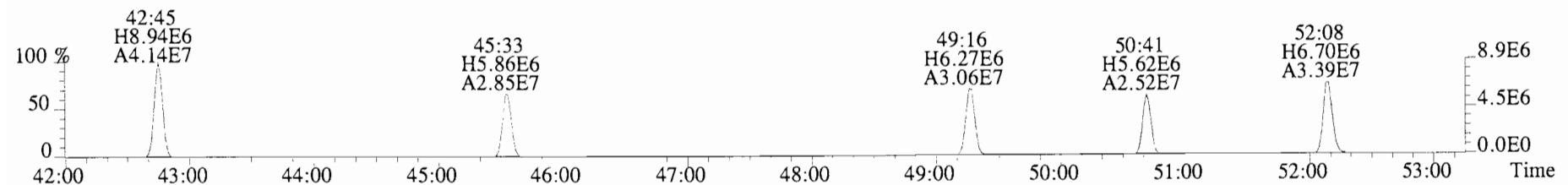
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4132.0,0.00%,F,F)



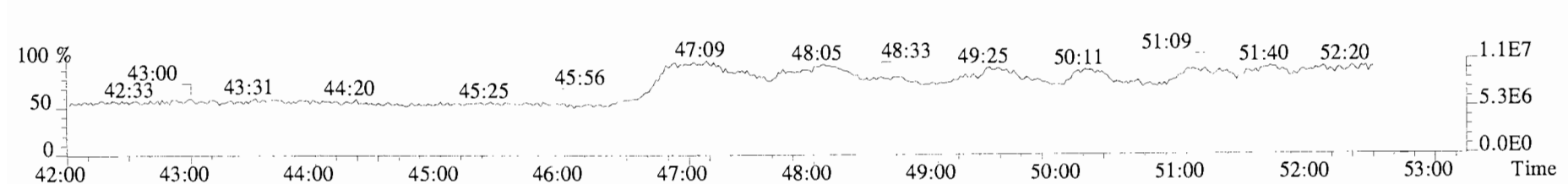
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2096.0,0.00%,F,F)



405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4064.0,0.00%,F,F)

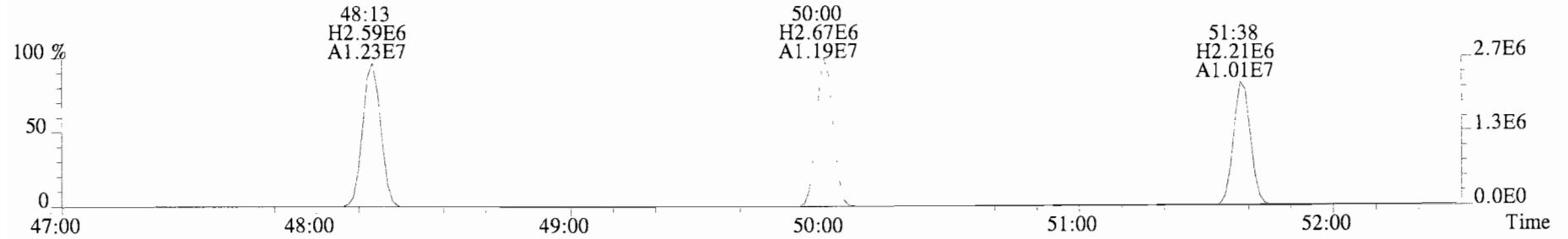


380.9760 S:2 F:4

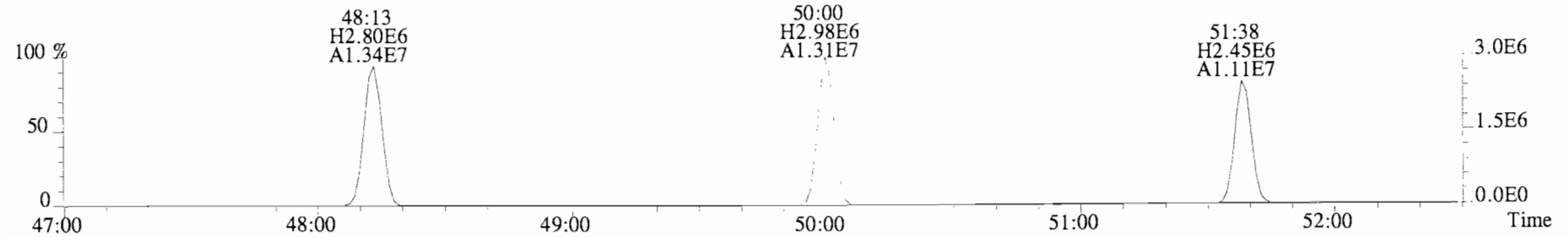




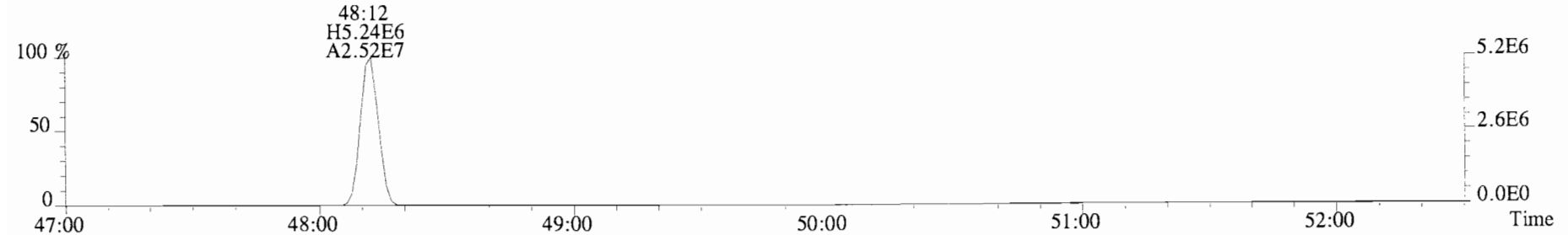
File:140623E4 #1-552 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



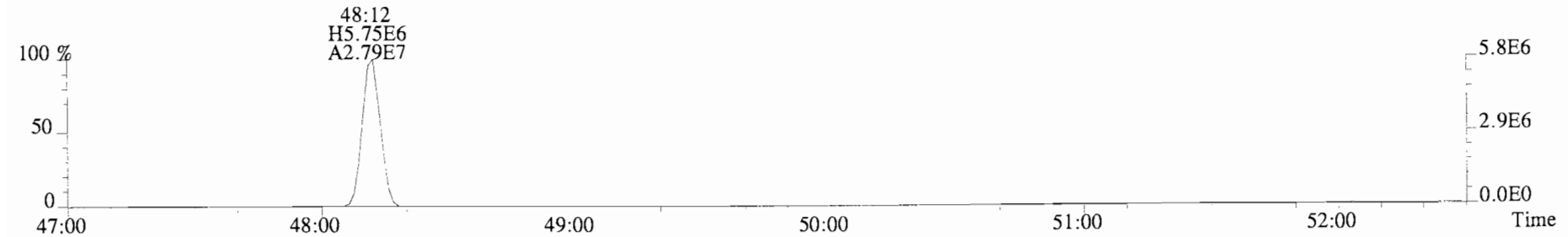
429.7606 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1724.0,0.00%,F,F)



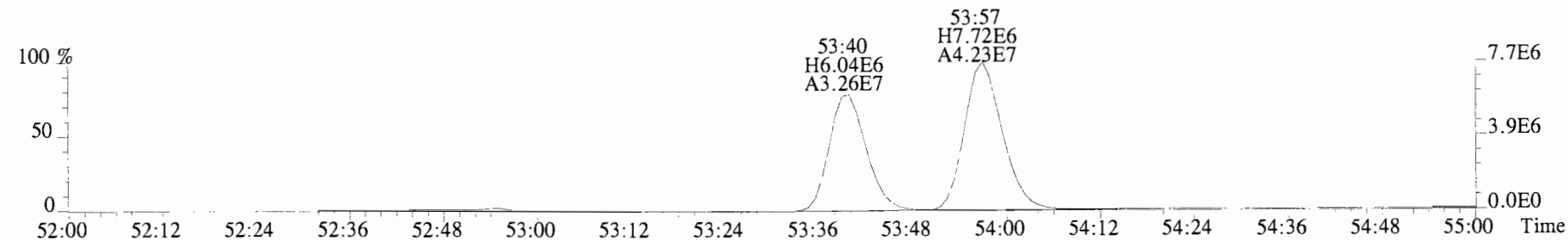
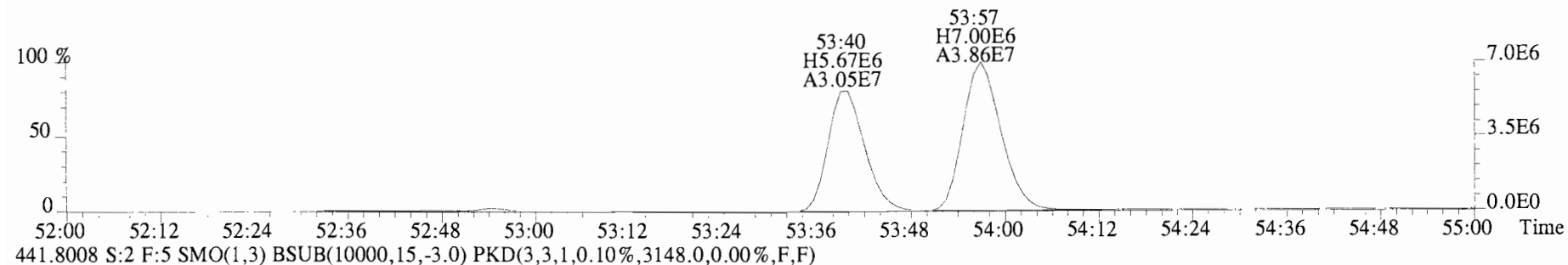
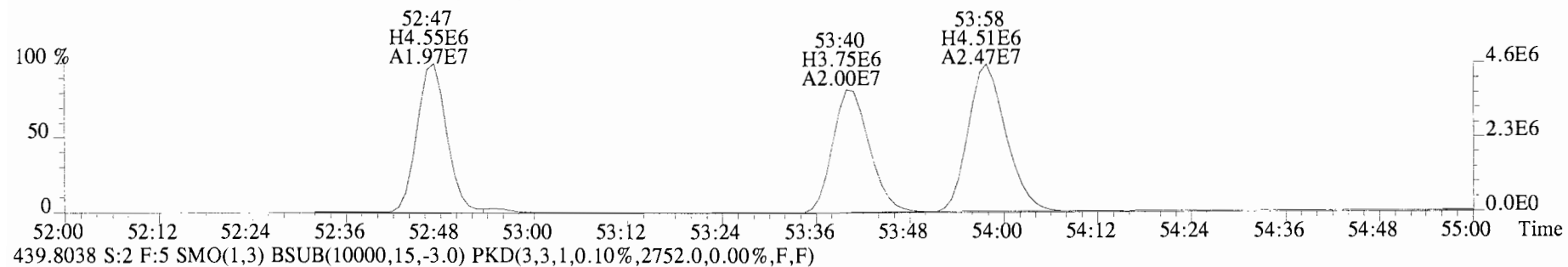
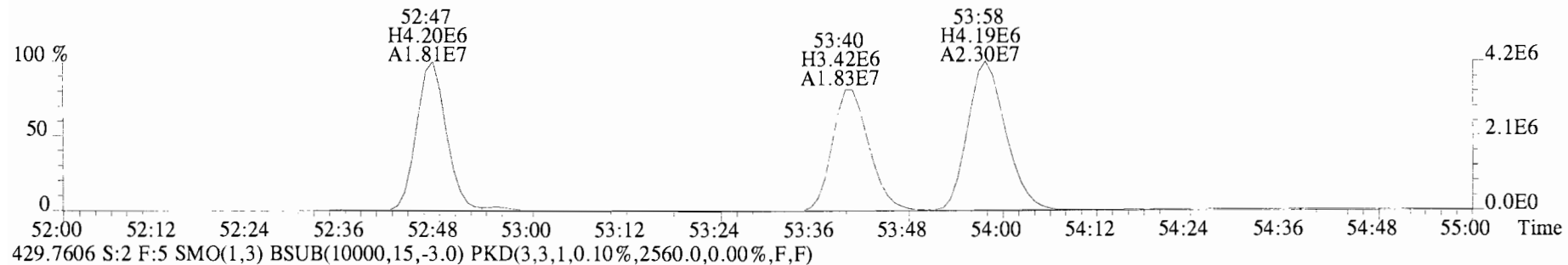
439.8038 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



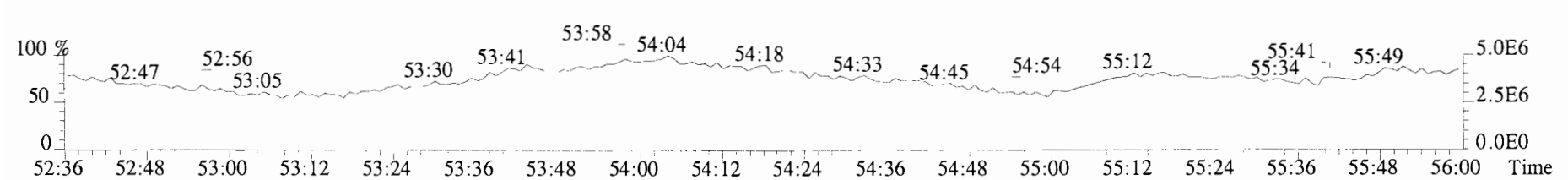
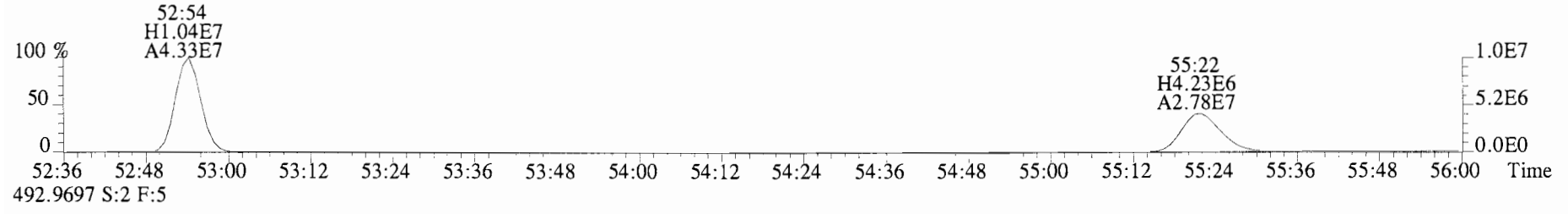
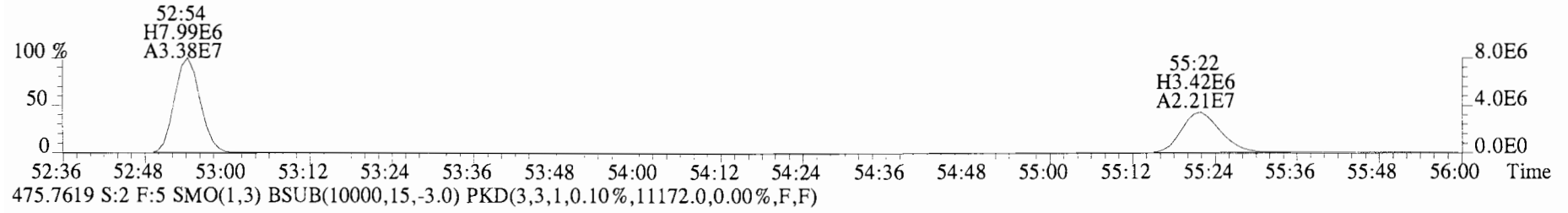
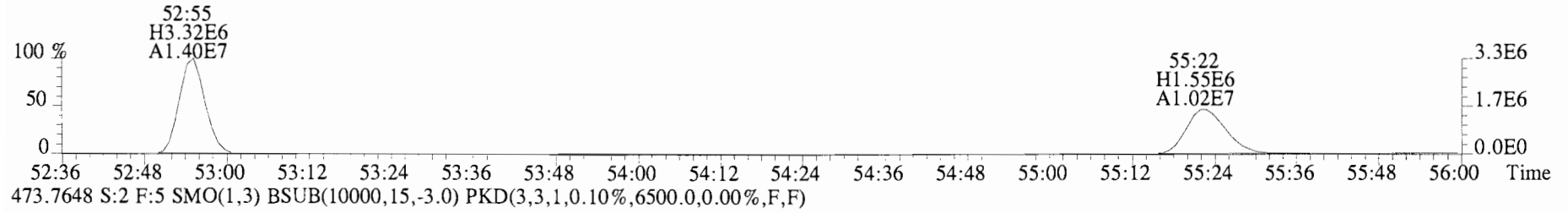
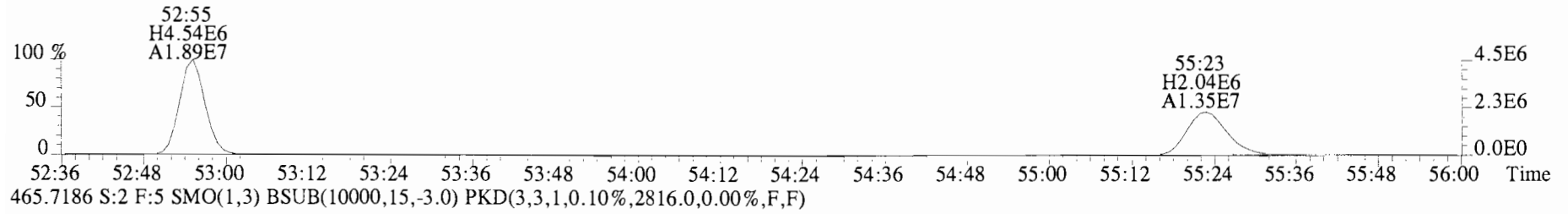
441.8008 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



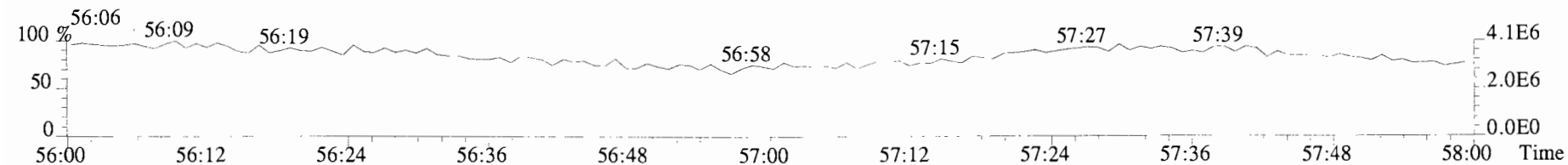
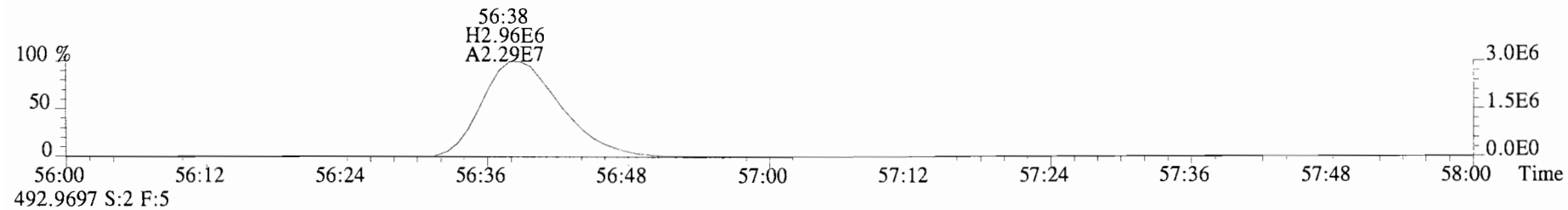
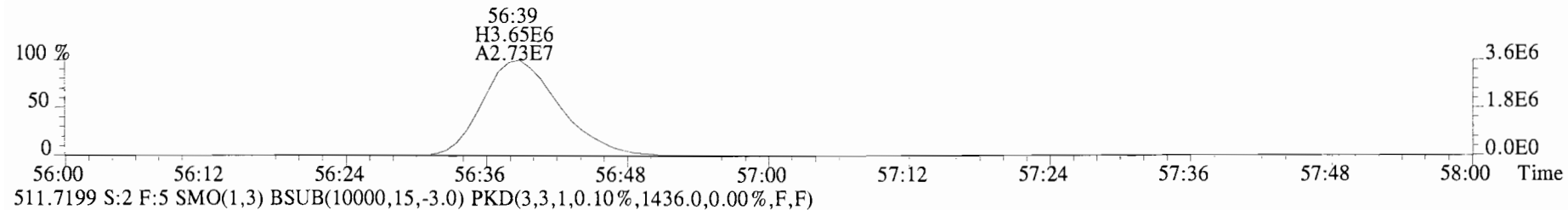
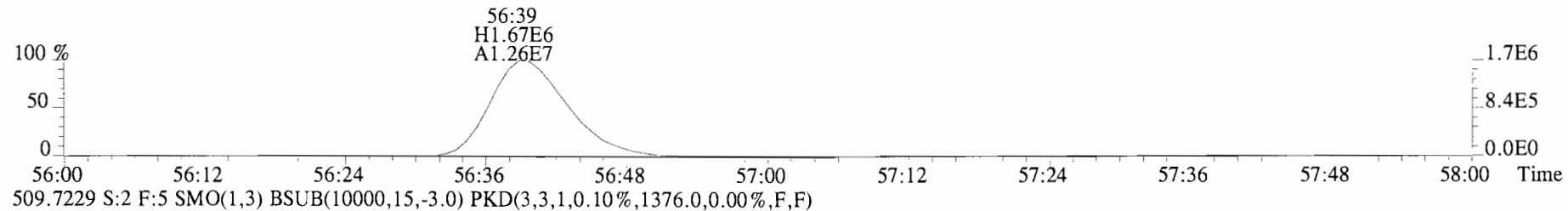
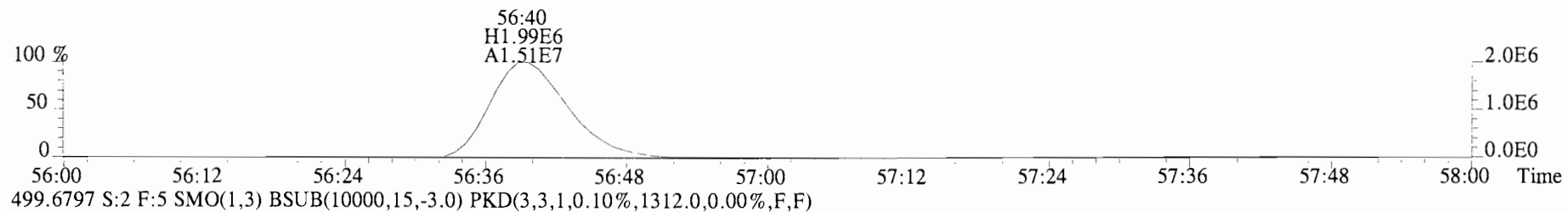
File:140623E4 #1-435 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)



File:140623E4 #1-435 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4064.0,0.00%,F,F)

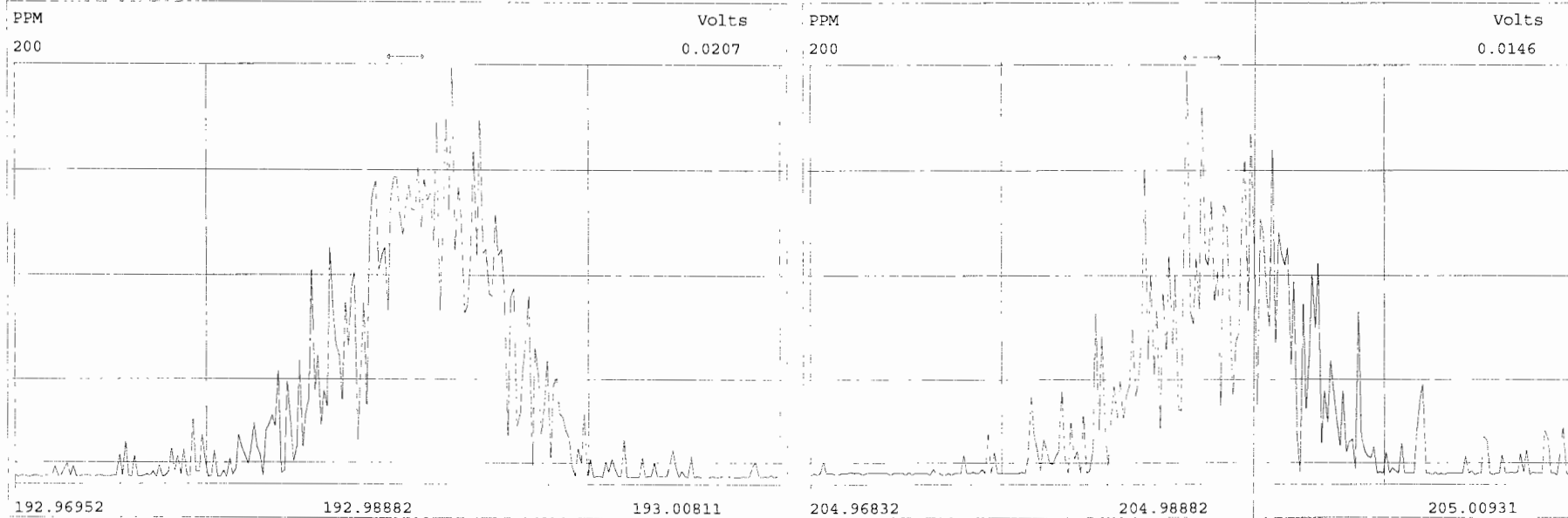
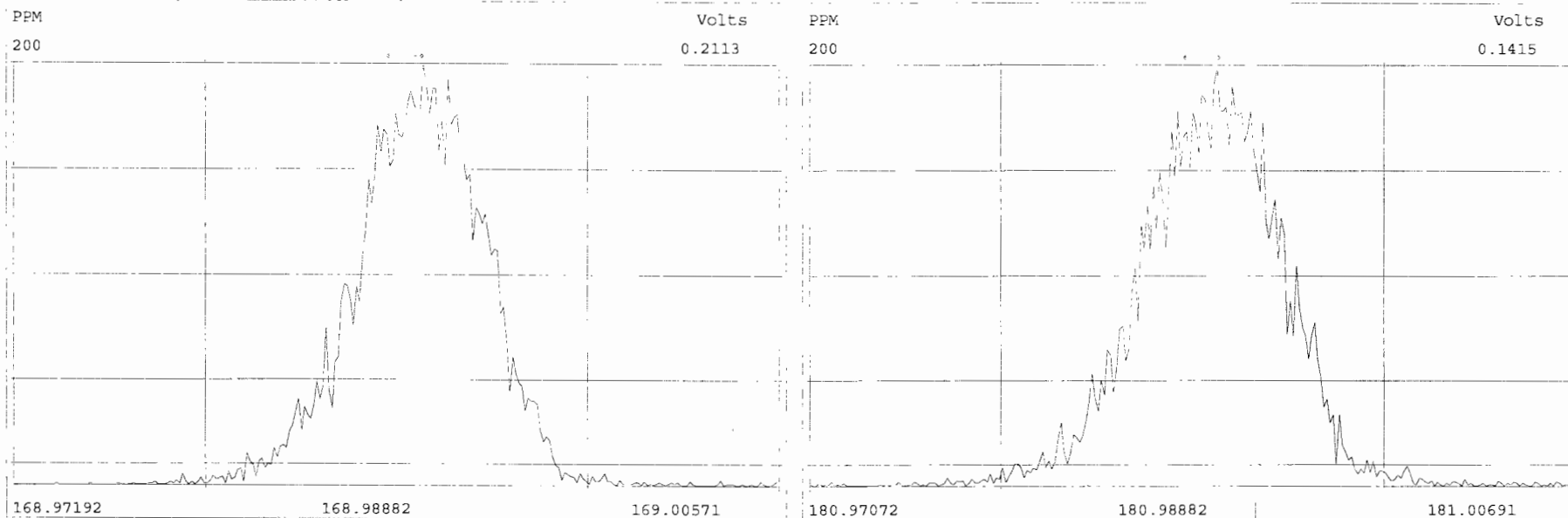


File:140623E4 #1-435 Acq:24-JUN-2014 17:58:29 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:ST140623E4-2 PCB SSS 14E1403 Exp:PCB\_ZB1  
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1296.0,0.00%,F,F)

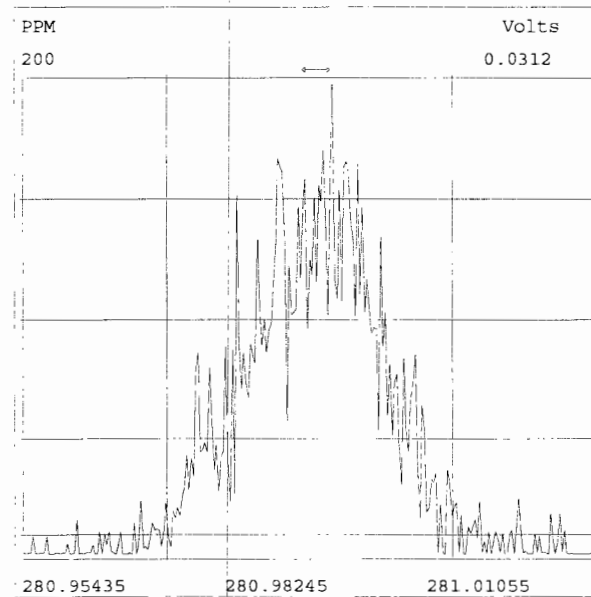
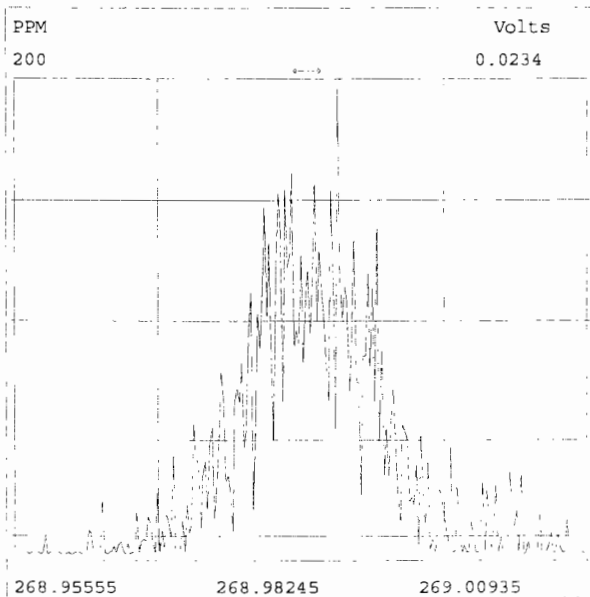
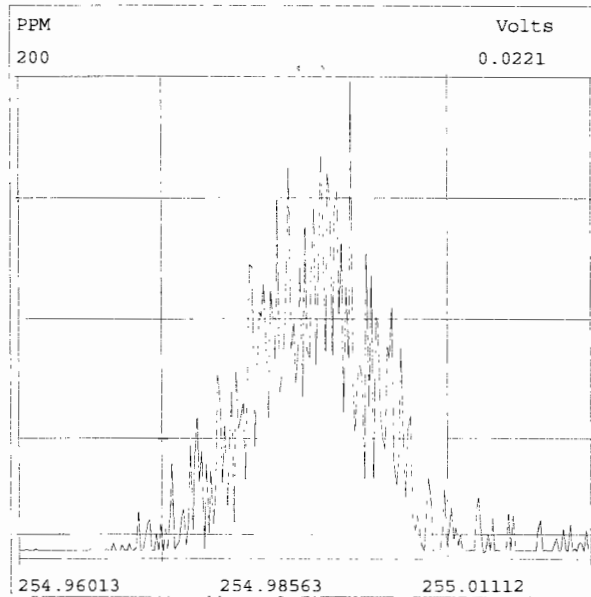
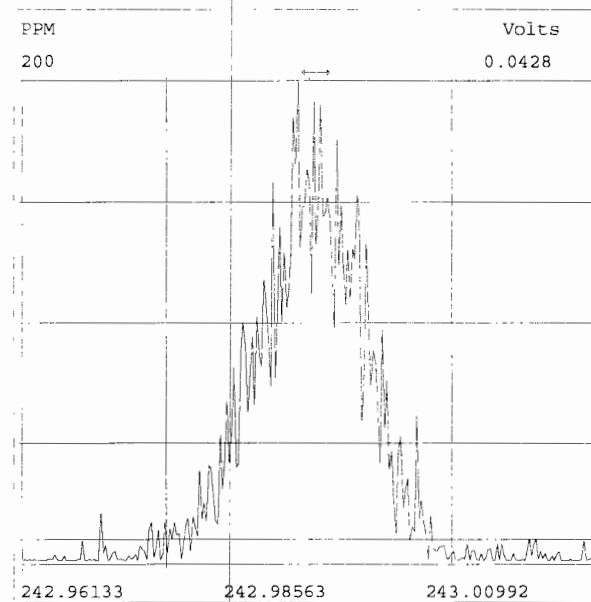
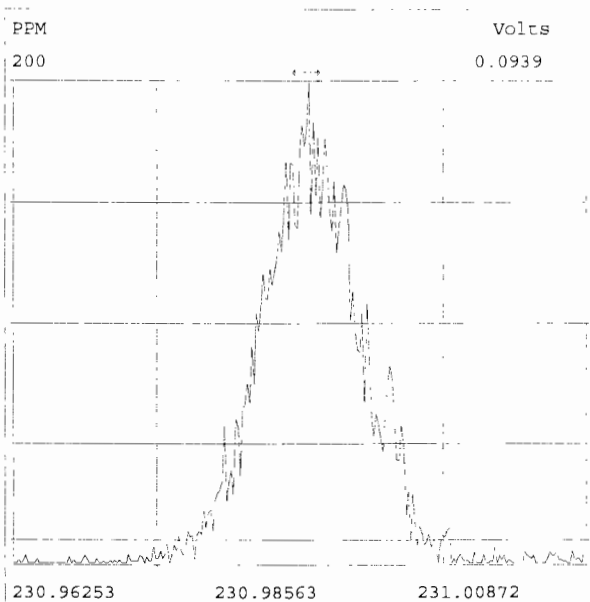
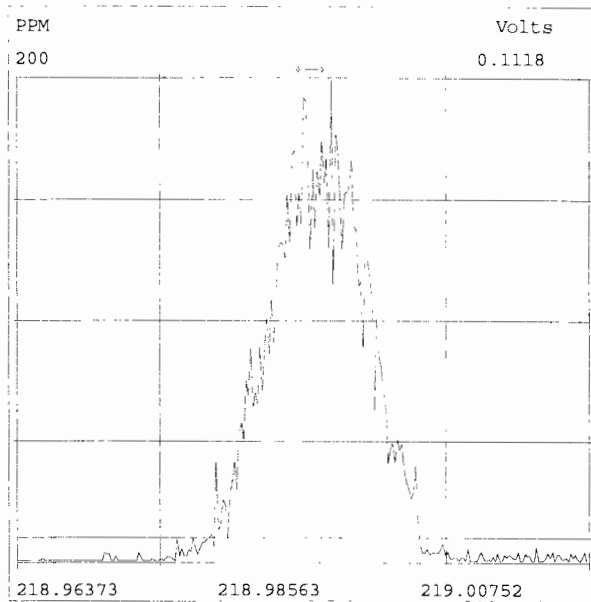


Peak Locate Examination:25-JUN-2014:04:46 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:1 Reference:PFK

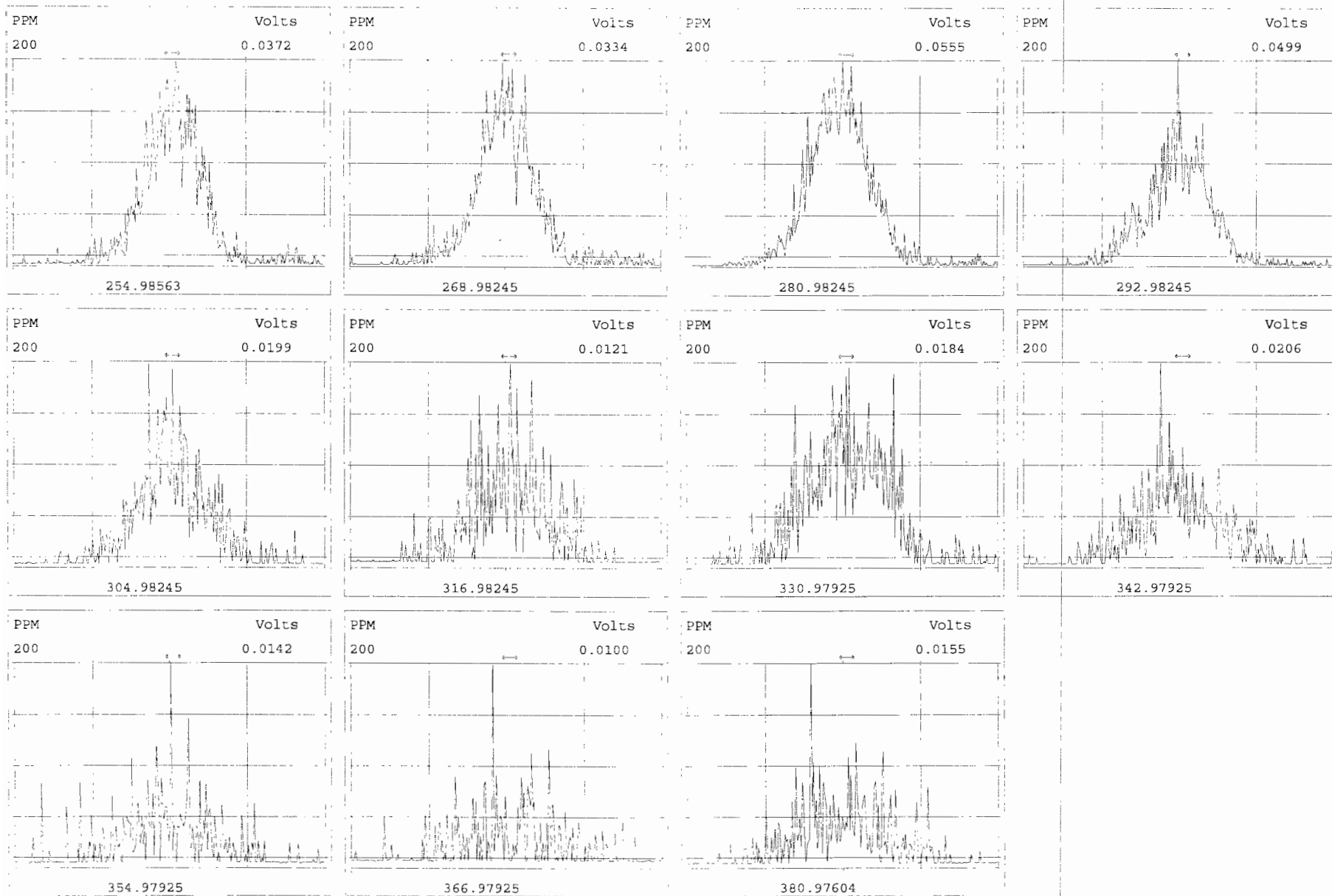


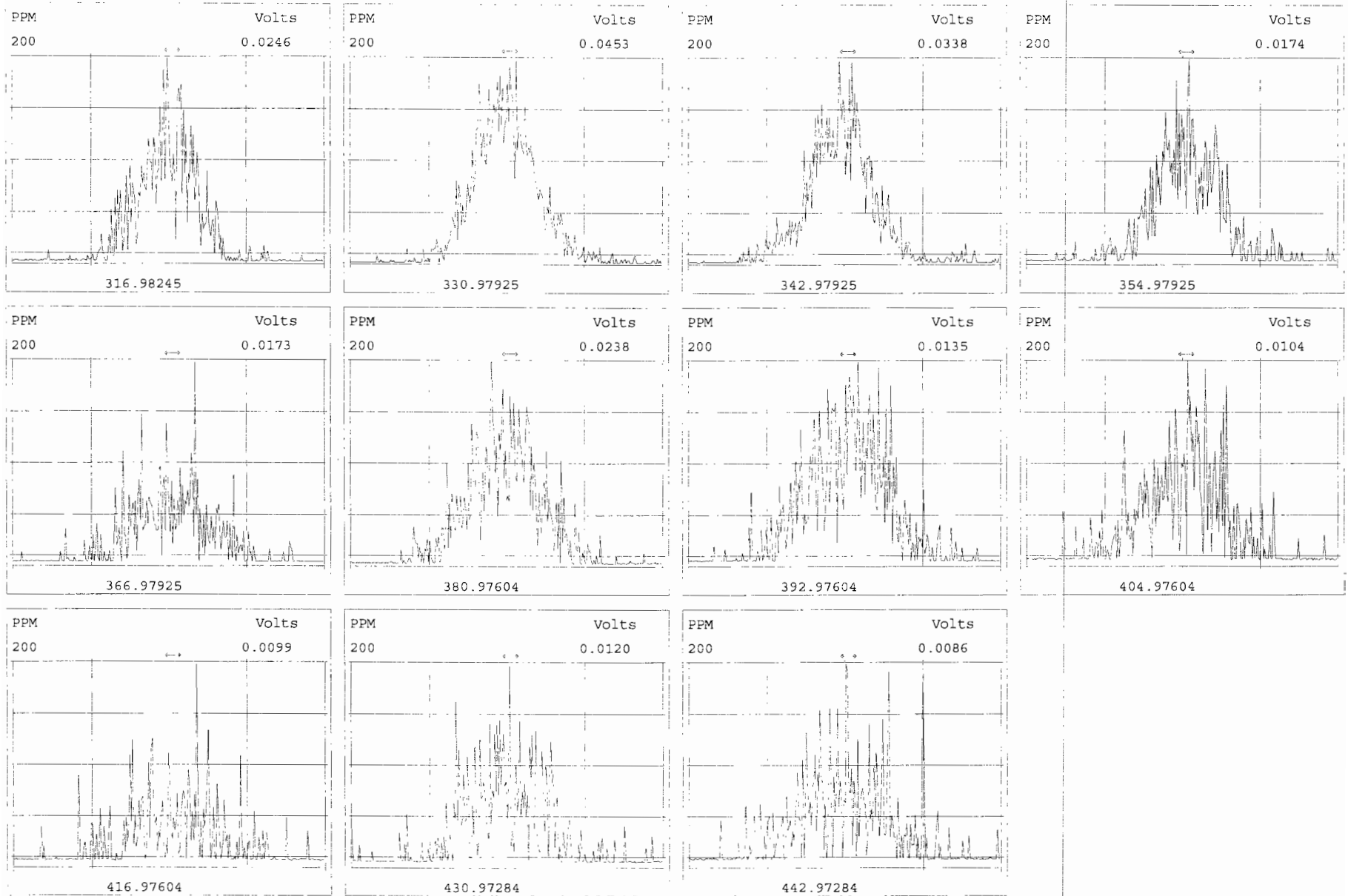
Experiment:PCB\_ZB1 Function:2 Reference:PFK



Peak Locate Examination:25-JUN-2014:04:48 File:RES\_CHECK

Experiment:PCB\_ZB1 Function:3 Reference:PFK







Experiment:PCB\_ZB1 Function:5 Reference:PFK

