

Lower Duwamish Waterway

NPDES Inspection Sampling Support 2014/2015

Prepared for



Toxics Cleanup Program
Northwest Regional Office
Washington State Department of Ecology
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Appendix S

South Service Center

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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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S-1 Introduction and Background

Facility Name	South Service Center (Seattle City Light)
Facility/Site ID	2171
Address	400 S Spokane Street Seattle, WA 98134
NPDES Permit Type	Phase I Municipal Stormwater Permit
NPDES Permit No.	WAR044503
Permit Monitoring Requirements	Unknown
SIC Code	none
Inspection Date	December 11, 2014
Grab Samples	1 water sample; 3 solids samples
Sample ID(s)	SC-MH-20-20141211-W SC-OWS-05-20141211-S SC-CB-35-20141211-S SC-CB-24-20141211-S
Water Sample Analytes	Total metals, mercury, PCB congeners, dioxins/furans, SVOCs, alkalinity/carbonate/bicarbonate, anions, specific conductance, pH, TOC, DOC, TSS
Solids Sample Analytes	Total metals, mercury, PCB Aroclors, PCB congeners, dioxins/furans, SVOCs, VOCs (2 samples), TPH-diesel/motor oil, TPH-gasoline (2 samples), grain size, TOC
Split Samples with Facility	Yes

Seattle City Light's South Service Center is located east of the Lower Duwamish Waterway (LDW) in the Duwamish/Diagonal stormwater basin. The facility is used by Seattle City Light to store and conduct maintenance of electrical transmission equipment. The facility includes a decant area, boneyard for old equipment, a PCB building for dismantling old transformers, scrap yard, material and product storage area, and vehicle parking areas (Ecology 2015). Additional information about facility activities was not available for review. An overview of the facility is presented in Figure S-1.

S-1.1 Stormwater Conveyance

Based on the facility drainage map, stormwater is collected in a series of catch basins and conveyed offsite to the Duwamish/Diagonal Combined Sewer Overflow/Storm Drain (CSO/SD). Additional stormwater conveyance system information was not available for review.

S-1.2 Recent Compliance History

Recent compliance information was not available for review.

S-2 Inspection and Sampling

S-2.1 December 2014 Stormwater Compliance Inspection

On December 11, 2014, Ecology conducted a stormwater compliance inspection at South Service Center. 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 S-2 using geographic information system software. An inspection photographic log and field documentation are presented in Attachments S-1 and S-2, respectively.

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

- **Manhole 20 (SC-MH-20)**
- **Oil/water separator D (SC-OWS-D)**
- Catch basin 38 (SC-CB-38)
- **Catch basin 35 (SC-CB-35)**
- **Catch basin 24 (SC-CB-24).**

Locations OWS-D, CB-35, and CB-24 contained sufficient sampleable material to collect solids samples. Location MH-20 contained sufficient water to collect a water grab sample. Storm drain structure inspection locations are presented in Figure S-2.

S-2.2 Stormwater Conveyance System Sampling

Ecology collected one water sample and three solids samples from the stormwater conveyance system at the South Service Center. Sample locations, analytes, and analytical methods are listed on Table S-1. Results for water samples are presented in Tables S-2 through S-6. Results for the solids samples are provided in Tables S-7 through S-9. Chain of custody forms and the laboratory reports are provided as Attachments S-3 and S-4, respectively. Split sample results collected by the city of Seattle are provided as Attachment S-6.

S-2.2.1 Water Sample

Water sample SC-MH-20-20141211-W was collected from MH-20 (Figure S-2 and Attachment S-1). MH-20 is channelized and receives stormwater from an area that drains a paved parking lot where equipment is stored. Stormwater is conveyed to OWS-D, which then drains offsite to the Duwamish/Diagonal CSO/SD. The field team observed discharge during inspection and sample collection.

S-2.2.2 Solids Samples

Solids sample SC-OWS-05-20141211-S was collected from chamber 2 of the oil/water separator OWS-D (Figure S-2 and Attachment S-1). OWS-D contains three chambers. OWS-D chamber 2

receives stormwater from MH-20 that drains a paved parking lot where equipment is stored. Stormwater is conveyed from OWS-D offsite to the Duwamish/Diagonal CSO/SD. The sample consisted of black silty/clay sediment and organic matter and had a strong odor with a slight sheen.

Solids sample SC-CB-35-20141211-S was collected from catch basin CB-35 (Figure S-2 and Attachment S-1), which receives stormwater from CB-36 and CB-37 and paved areas adjacent to the PCB building. Stormwater is conveyed from CB-35 to a storm drain line that enters MH-17, which eventually enters OWS- D. The sample consisted of black silt and medium to fine grain sand and had a moderate odor. A slight sheen was observed during sample collection.

Solids sample SC-CB-24-20141211-S was collected from CB-24 (Figure S-2 and Attachment S-1), which is located in the east central area of the South Service Center, on the north side of a salvage/scrap storage yard. Stormwater drains from underneath the scrapyards barriers and enters CB-24. Objects stored in the scrap area include cables, conduit, and uncovered scrap metal bins. Stormwater entering CB-24 contained suspended solids and had a slight sheen. CB-24 has a sediment trap to prevent floating debris from discharging to a storm drain line that enters MH-16. The solids sample consisted of dark brown silt and fine grain sand with a slight petroleum odor.

S-3 Results

S-3.1 Chemical Analysis

Ecology collected one water and three solids samples during the December 11, 2014 stormwater compliance inspection at the South Service Center. Analytical methods, chemical results and regulatory criteria are presented in Tables S-1 through S-9.

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

Copper, lead, and zinc exceeded one or more screening levels in the water sample (Table S-4). In addition, total PCB congeners, PAHs (benzo[a]anthracene, dibenzo[a,h]anthracene), and pentachlorophenol exceeded marine chronic and/or human health water quality criteria in this sample.

Concentrations of the following chemicals exceeded the one or more screening levels in solids samples (Table S-8):

- Metals: cadmium, copper, mercury, zinc;
- PCBs: total PCB Aroclors, total PCB congeners;
- Dioxin/furan TEQ;
- PAHs: benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, total benzofluoranthenes, total HPAHs, total LPAHs, and total cPAHs;

- Phthalates: bis(2-ethylhexyl)phthalate, butylbenzylphthalate, di-n-butylphthalate, dimethylphthalate;
- Phenols: 4-methylphenol, pentachlorophenol;
- Other SVOCs: benzyl alcohol, and n-nitrosodiphenylamine;
- TPH: gasoline-, diesel-, and motor oil-range hydrocarbons.

S-3.2 Inspection Results and Permit Compliance Requirements

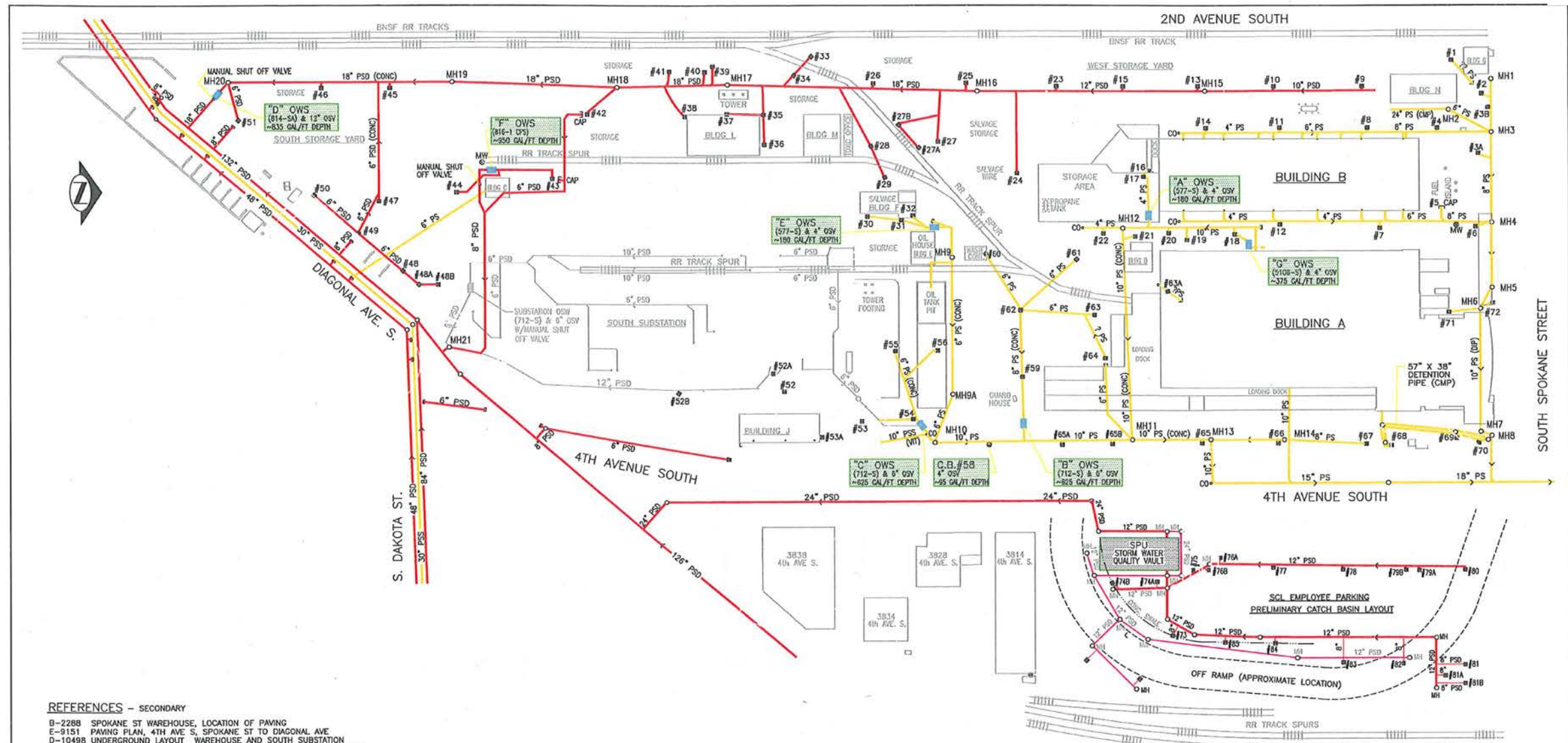
At the time of the December 2014 inspection, Ecology reviewed site plans and information for compliance with the City of Seattle's Phase I Municipal Stormwater Permit. As part of the review, Ecology identified the following corrective actions (Ecology 2015):

- Implement best management practices (BMPs) in accordance with a complete and accurate SWPPP.
- Prevent or reduce stormwater impacts from leaks and spills as well as materials and solid wastes stored on-site.
- Update the facility SWPPP to address all areas of the facility that discharge or have the potential to discharge to the municipal separate stormwater system.
- Conduct periodic visual observations of discharges from the facility to evaluate effectiveness of BMPs.

S-4 References

- Ecology. 2015. Municipal Stormwater Inspection Report: Seattle City Light South Service Center, 400 S Spokane Street, Seattle, WA 98134. January 27, 2015.
- Ecology. 2013. Water Quality Permitting and Reporting Information System, Summary Information, Seattle City Light South Service Center. Online database.
- EPA (Environmental Protection Agency). 1994. *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*. EPA 540/R-94/013. Office of Emergency and Remedial Response. February 1994.
- EPA. 2008. *USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*. EPA-540-R-08-01. Office of Emergency and Remedial Response. June 2008.
- EPA. 2009. *Guidance for labeling externally validated laboratory analytical data for Superfund use*. EPA-540-R-08-005. Office of Emergency and Remedial Response. January 2009.
- EPA. 2010. *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*. EPA 540-R-10-011. Office of Emergency and Remedial Response. January 2010.
- Leidos. 2015. Lower Duwamish Waterway NPDES Inspection Sampling Support, 2014/2015. Prepared for Washington State Department of Ecology, Toxics Cleanup Program, Northwest Regional Office. June 2015.

Figures



REFERENCES - SECONDARY

- B-2288 SPOKANE ST WAREHOUSE, LOCATION OF PAVING
- E-8151 PAVING PLAN, 4TH AVE S, SPOKANE ST TO DIAGONAL AVE
- D-10498 UNDERGROUND LAYOUT WAREHOUSE AND SOUTH SUBSTATION
- D-11051 SUBSTATION BLDG. BASEMENT FLOOR PLAN (D-35127 @ CB#52A)
- D-14116 WAREHOUSE SIDE SEWER LAYOUT
- D-14118 SOUTH SUBSTATION CONNECTION TO CITY SEWER IN FOURTH AVE S
- D-14219 SURFACING PLAN FOR PORTION OF YARD AREA
- D-14221 LAYOUT OF TRACK AREA TO BE SURFACED
- D-14471 SOUTH SUBSTATION OIL TREATMENT PLANT GENERAL LAYOUT
- D-14472 OIL TREATMENT PLANT FLOOR PLAN & SECTION (D-35222 @ MH#9)
- D-18625-1 TRANSFORMER UNTANKING FIT CONC. FLOOR PLAN & DRAINAGE
- D-18350 YARD IMPROVEMENTS PLANS & DETAILS
- D-20201 YARD DRAIN IMPROVEMENT (THIS IS A SOUTH SUB DRAWING)
- D-21889 SITE PLAN ROOF PLAN AND GAS PUMP (NORTH END OF SSC)
- D-21894 BUILDING B PLAN FIRST FLOOR NORTH
- D-21910 BUILDING B FDNS & FIRST FLOOR PLAN NORTH END GRIDS13-19
- D-21917 SITE PLAN MECHANICAL (BUILDING B)
- D-21918 BUILDING B FOUNDATION PLAN NORTH
- D-21920 BUILDING B PLUMBING FIRST FLOOR - NORTH
- D-25047 WAREHOUSE STORAGE AREA POLE YARD FENCE PLAN AND DETAILS
- D-25050A PREFAB METAL BUILDINGS-SALVAGE OPERATION FDM PAVING DETAILS
- D-25183 YARD PAVING & SURFACE DRAINAGE PLAN-NW PORTION 1966 CONST.
- D-25184 YARD PAVING & SURFACE DRAINAGE PLAN-SW PORTION 1966 CONST.
- D-25185 PAVING & FENCE DETAILS NW CORNER 1966 CONSTRUCTION
- D-26318 EMPLOYEE PARKING AREA PAVING PLAN & DETAILS (SOUTH YARD)
- D-26466 ANNEX PARKING FACILITIES DRAINAGE & HORIZONTAL CONTROL
- D-26467 ANNEX PARKING FACILITIES GRADING & PAVING PLAN
- D-26792 BLDG A SOUTH END 1974 IMPROVEMENTS
- D-30811 TRANSFORMER OIL CONTAINMENT DETAILS
- D-31805 DRAINAGE & UTILITY PLAN (NEW CONST. AROUND BLDG A ADDITION)
- D-34101 APPRENTICESHIP TRAINING CENTER GRADING DRAINAGE & UTILITY PLAN
- D-35139 STORM DRAIN AND OIL CONTAINMENT PLAN
- D-35140 STORM DRAIN AND OIL CONTAINMENT DETAILS
- D-35176 OIL CONTAINMENT SYSTEM SITE PLAN (SOUTH SUBSTATION)

BUILDING KEYS

- A - OFFICES, WAREHOUSE, SHOPS & MISC
- B - OFFICES, SHIPPING/RECEIVING, GARAGE, & MISC
- C - OFFICE/POLEYARD
- D - FLAMMABLE LIQUIDS BUILDING
- E - OIL HOUSE (TREATMENT PLANT)
- F - SALVAGE AND STEAM ROOM
- G - APPRENTICESHIP ELECTRONICS LAB
- H - STORAGE AREA AND LOADING DOCK
- J - SUBSTATION CONTROL BUILDING
- K - (BUILDING REMOVED)
- L - PCB BUILDING (TSCA)
- M - MODERATE RISK WASTE BUILDING
- N - APPRENTICESHIP TRAINING LAB

LEGEND

- OIL/WATER SEPARATOR (OWS) & OIL STOP VALVE (OSV)
- 240B CATCH BASIN & OIL STOP VALVE (OSV)
- 241B CATCH BASIN
- CATCH BASIN
- MANHOLE
- CLEAN OUT
- MONITORING WELLS
- PIPE STORM DRAIN
- PIPE SEWER SANITARY
- PIPE SEWER COMBINED
- DRAINAGE TO DUWAMISH RIVER
- DRAINS TO SANITARY SEWER
- FENCE LINE
- CORRUGATED METAL PIPE
- CONCRETE
- DUCTILE IRON PIPE
- VITREOUS CLAY PIPE

REFERENCES - PRIMARY

- D-30739 STORM DRAIN MODIFICATIONS FOR OIL CONTAINMENT PLAN
- D-30740 STORM DRAIN MODIFICATIONS FOR OIL CONTAINMENT DETAILS
- D-35139 SOUTH YARD BUILDING & SURFACE DRAINAGE PLAN (SPCC-S HALF THIS DWG)
- D-35177 NORTH YARD BUILDING & SURFACE DRAINAGE PLAN (SPCC-N HALF THIS DWG)

NOTES

1. THIS DRAWING, REVISION 1 WAS UPDATED USING INFORMATION FROM THE DRAWINGS LISTED UNDER: REFERENCES - SECONDARY.
2. DRAWINGS D-35139 & D-35177 (SPCC) HAVE BEEN UPDATED FROM A COPY OF THIS DRAWING BASE SITE PLAN - EACH HALF N & S AT 1"=40' SCALE.
3. SOUTH SUBSTATION DRAINAGE IS SHOWN SHADED FOR REFERENCE ONLY.



I:\OU_293\DOCS\SSC (P&P)-Paving Lot Drains in COLOR\035701 (Color Plot).dwg
 GenPS D: 28x40 In.rgd Mer/19/2013 12:24pm

REV	DATE	BY	APP	DESCRIPTION
1	07/13/2009	MF		ISSUED FOR PERMITS
2	10/29/2010	DM		ISSUED FOR PERMITS
3	10/29/2010	DM		ISSUED FOR PERMITS
4	10/29/2010	DM		ISSUED FOR PERMITS
5	10/29/2010	DM		ISSUED FOR PERMITS
6	10/29/2010	DM		ISSUED FOR PERMITS
7	10/29/2010	DM		ISSUED FOR PERMITS
8	10/29/2010	DM		ISSUED FOR PERMITS
9	10/29/2010	DM		ISSUED FOR PERMITS
10	10/29/2010	DM		ISSUED FOR PERMITS

NO.	DATE	BY	APP	DESCRIPTION
1	10/30/2001	SL		ISSUED FOR PERMITS
2	10/30/2001	SL		ISSUED FOR PERMITS
3	10/30/2001	SL		ISSUED FOR PERMITS
4	10/30/2001	SL		ISSUED FOR PERMITS
5	10/30/2001	SL		ISSUED FOR PERMITS
6	10/30/2001	SL		ISSUED FOR PERMITS
7	10/30/2001	SL		ISSUED FOR PERMITS
8	10/30/2001	SL		ISSUED FOR PERMITS
9	10/30/2001	SL		ISSUED FOR PERMITS
10	10/30/2001	SL		ISSUED FOR PERMITS

ENDORSEMENTS	
SIGNATURE	DATE
DR : S. LING	10/30/2001
CK : DM	10/30/2001
OSGN PM	10/30/2001
CK : DSM	10/30/2001
DATE	

Seattle City Light	
PLUMBING, DRAINAGE & SEWER SOUTH SERVICE CENTER EXISTING YARD BUILDING & SURFACE DRAINAGE PLAN	
APPROVED FOR SEATTLE CITY LIGHT	DATE
SCOTT McLEAN	

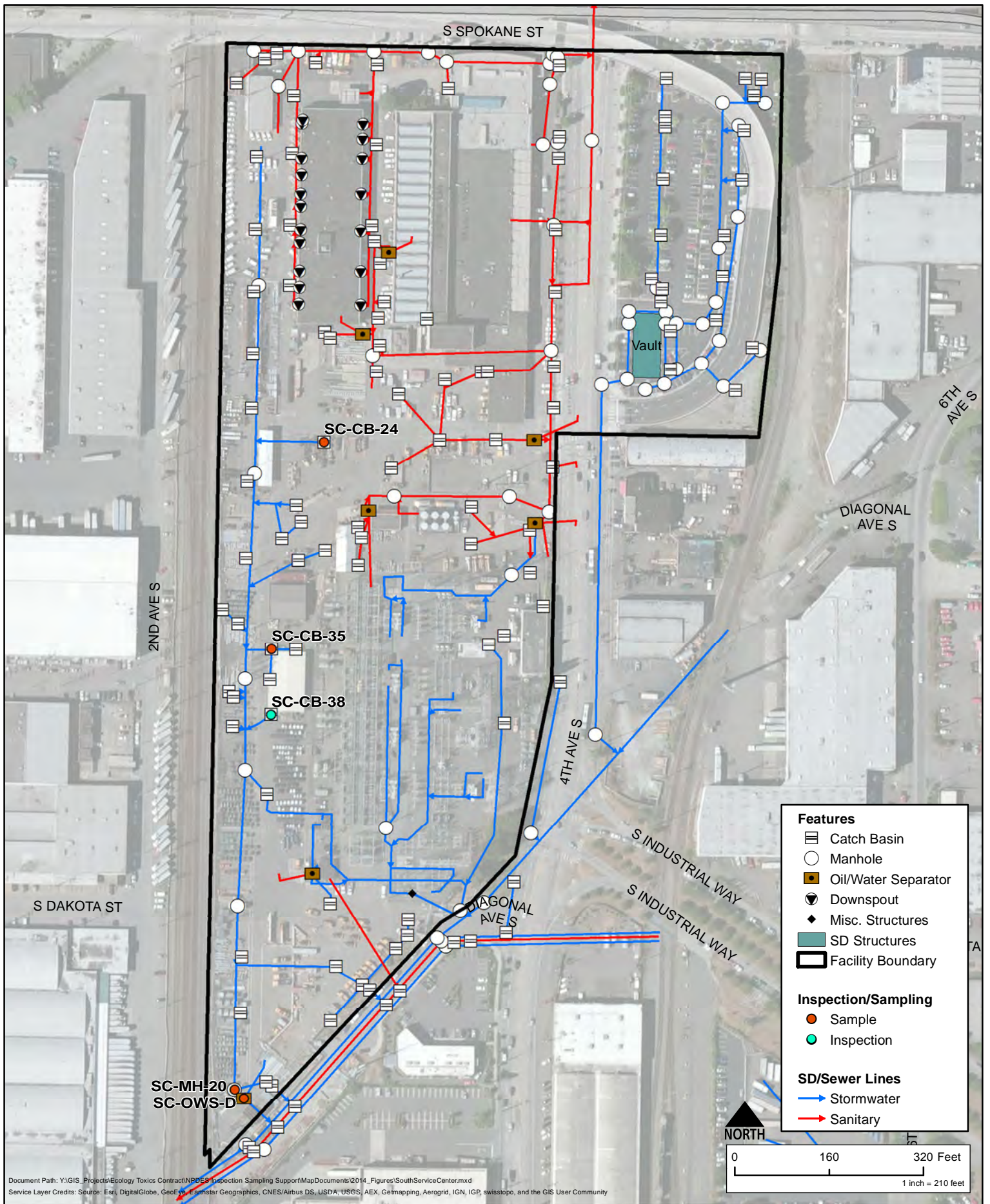
SHEET	1	OF	1
CLASS	C		
DRAWING NO.	D-35701		
SCALE	1"=60'		
REV. NO.	3		



Figure S-1. South Service Center SWPPP Map



Source: SCL 2001



**Figure S-2. South Service Center
Inspection and Sampling Locations**

Tables

Acronyms and Abbreviations Used in Tables

<	not detected
%	percent
2LAET	Second Lowest Apparent Effects Threshold
CaCO ₃	calcium carbonate
CB	chlorobiphenyl
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSL	Cleanup Screening Level
EF	exceedance factor (sample result / criteria value)
EMPC	estimated maximum possible concentration
EPA	U.S. Environmental Protection Agency
HHO	human health – consumption of organisms only
HPAH	high molecular weight polycyclic aromatic hydrocarbon
ICP-MS	Inductively coupled plasma – mass spectrometry
ISGP	Industrial Stormwater General Permit
J	estimated concentration
JN	estimated concentration
LAET	Lower Apparent Effects Threshold
LDW	Lower Duwamish Waterway
LPAH	low molecular weight polycyclic aromatic hydrocarbon
MA	marine acute
MC	marine chronic
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mS/cm	milliSiemens per centimeter
MTCA	Model Toxics Control Act
na	not analyzed
nd	not detected

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

**Table S-1
Sampling Locations and Analytical Methods
South Service Center**

Analyte	Method	Sample Location / Collection Date			
		SC-CB-24 12/11/2014	SC-CB-35 12/11/2014	SC-MH-20 12/11/2014	SC-OWS-05 12/11/2014
Water Samples					
Metals (total)	EPA 200.8			●	
Mercury (total, dissolved)	EPA 245.1			●	
PCB Congeners	EPA 1668C			●	
SVOCs	SW 8270D-Low			●	
Dioxins/furans	EPA 1613B			●	
Alkalinity/Bicarbonate/Carbonate	SM 2320B			●	
Anions	EPA 300.0			●	
Specific Conductance	EPA 120.1			●	
pH	SM 4500H+B			●	
Total organic carbon	SM 5310B			●	
Dissolved organic carbon	SM 5310B			●	
Total suspended solids	SM 2540D			●	
Solids Samples					
Metals (total)	SW 6020	●	●		●
Mercury	SW 7471A	●	●		●
PCB Aroclors	EPA 8082	●	●		●
PCB Congeners	EPA 1668C	●	●		●
Dioxins/furans	EPA 1613B	●	●		●
SVOCs	SW 8270D-Low	●	●		●
VOCs	SW 8260B-Low	●	●		
TPH-diesel/motor oil	NWTPH-Dx	●	●		●
TPH-gasoline	NWTPH-Gx	●	●		
Grain size	PSEP Plumb 1981	●	●		●
Total organic carbon	PSEP 9060	●	●		●

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

**Table S-2. Water Quality Data - Field Measurements
South Service Center**

Location ID			SC-MH-20
Collection Date			12/11/2014
Analyte	ISGP Benchmark	Units	Result
Field Parameters			
Flow	--	Yes/No	Yes
pH	5.0 to 9.0	std units	9.6
Conductivity	--	mS/cm	0.034 a
Temperature	--	degrees C	11.0
Total Dissolved Solids	--	mg/L	na
Turbidity	25	NTU	27
Oil & Grease	No visible sheen	Yes/No	No
Dissolved Oxygen	--	mg/L	11
ORP	--	mV	na

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

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

**Table S-3. Water Sample Results
South Service Center**

	Location ID					SC-MH-20
	Collection Date					12/11/2014
Analyte	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result
		Marine		HHO	HHO	
		Chronic	Acute			
Total Metals (µg/L)						
Antimony	--	--	--	--	--	0.59
Arsenic	150	36	69	--	--	< 1.0 U
Beryllium	--	--	--	--	--	< 0.40 U
Cadmium	2.1	9.4	42	--	--	0.40
Chromium	--	--	--	--	--	1.2
Chromium, hexavalent	--	--	--	--	--	na
Copper	14	3.7	5.8	--	--	65
Lead	81.6	8.5	221	--	--	13
Mercury	1.4	0.025	2.1	--	--	< 0.045 U
Nickel	--	8.3	75	--	--	1.4 J
Selenium	5	71	291	--	--	< 1.0 U
Silver	3.8	--	2.2	--	--	0.03 J
Thallium	--	--	--	--	--	< 1.0 U
Zinc	117	86	95	--	--	220
PCB Congeners (µg/L) ^a						
Total PCB Congeners	--	0.03	10	1.70E-04	6.40E-05	0.052 J
PCB TEQ, nd SDL*0	--	0.03	10	--	--	5.02E-06
PCB TEQ, nd SDL*0.5	--	0.03	10	--	--	5.07E-06
PCB TEQ, nd SDL*1	--	0.03	10	--	--	5.11E-06
Dioxins and Furans (pg/L) ^a						
2,3,7,8-TCDD	--	--	--	0.014	0.0051	< 1.82 U*
1,2,3,7,8-PeCDD	--	--	--	--	--	< 12.3 U*
1,2,3,4,7,8-HxCDD	--	--	--	--	--	42.1
1,2,3,6,7,8-HxCDD	--	--	--	--	--	95.9
1,2,3,7,8,9-HxCDD	--	--	--	--	--	79.2
1,2,3,4,6,7,8-HpCDD	--	--	--	--	--	2690
OCDD	--	--	--	--	--	21800
2,3,7,8-TCDF	--	--	--	--	--	1.98 J
1,2,3,7,8-PeCDF	--	--	--	--	--	4.20 J
2,3,4,7,8-PeCDF	--	--	--	--	--	5.87 J
1,2,3,4,7,8-HxCDF	--	--	--	--	--	35.3
1,2,3,6,7,8-HxCDF	--	--	--	--	--	40.4
1,2,3,7,8,9-HxCDF	--	--	--	--	--	2.63 J
2,3,4,6,7,8-HxCDF	--	--	--	--	--	43.8
1,2,3,4,6,7,8-HpCDF	--	--	--	--	--	1170
1,2,3,4,7,8,9-HpCDF	--	--	--	--	--	59.5
OCDF	--	--	--	--	--	3460
Total TCDD	--	--	--	--	--	< 1.82 U*
Total PeCDD	--	--	--	--	--	45.2 J
Total HxCDD	--	--	--	--	--	654
Total HpCDD	--	--	--	--	--	4910
Total TCDF	--	--	--	--	--	18.1 J
Total PeCDF	--	--	--	--	--	192 J
Total HxCDF	--	--	--	--	--	1050
Total HpCDF	--	--	--	--	--	2880
Dioxin/Furan TEQ, nd SDL*0	--	--	--	--	--	82.8 J
Dioxin/Furan TEQ, nd SDL*0.5	--	--	--	--	--	89.9 J
Dioxin/Furan TEQ, nd SDL*1	--	--	--	--	--	96.9 J

**Table S-3. Water Sample Results
South Service Center**

		Location ID				SC-MH-20	
		Collection Date				12/11/2014	
Analyte	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	
		Marine		HHO	HHO		
		Chronic	Acute				
PAHs (µg/L)							
1-Methylnaphthalene	--	--	--	--	--	< 0.57	U
2-Chloronaphthalene	--	--	--	--	1,600	< 0.57	U
2-Methylnaphthalene	--	--	--	--	--	< 1.9	U
Acenaphthene	--	--	--	--	990	< 0.96	U
Acenaphthylene	--	--	--	--	--	< 0.77	U
Anthracene	--	--	--	110,000	40,000	< 0.38	U
Benzo(a)anthracene	--	--	--	0.031	0.018	< 0.57	U
Benzo(a)pyrene	--	--	--	0.031	0.018	0.23	J
Benzo(b)fluoranthene	--	--	--	0.031	0.018	< 0.77	U
Benzo(g,h,i)perylene	--	--	--	--	--	0.24	J
Benzo(k)fluoranthene	--	--	--	0.031	0.018	< 0.57	U
Chrysene	--	--	--	0.031	0.018	< 0.38	U
Dibenz(a,h)anthracene	--	--	--	0.031	0.018	0.23	J
Dibenzofuran	--	--	--	--	--	< 3.8	U
Fluoranthene	--	--	--	370	140	0.23	J
Fluorene	--	--	--	14,000	5,300	< 0.57	U
Indeno(1,2,3-cd)pyrene	--	--	--	0.031	0.018	< 0.57	U
Naphthalene	--	--	--	--	--	< 3.8	U
Phenanthrene	--	--	--	--	--	< 0.77	U
Pyrene	--	--	--	11,000	4,000	0.33	J
Total Benzofluoranthenes	--	--	--	--	--	< 0.77	U
Total HPAHs	--	--	--	--	--	1.3	J
Total LPAHs	--	--	--	--	--	< 3.8	U
Total PAHs	--	--	--	--	--	1.3	J
cPAHs, nd RL*0	--	--	--	--	--	0.25	J
cPAHs, nd RL*0.5	--	--	--	--	--	0.38	J
cPAHs, nd RL*1	--	--	--	--	--	0.51	J
Phthalates (µg/L)							
bis(2-Ethylhexyl)phthalate	--	--	--	5.9	2.2	< 29	U
Butylbenzylphthalate	--	--	--	--	1,900	< 5.7	U
Di-n-Butylphthalate	--	--	--	12,000	4,500	< 3.8	U
Diethylphthalate	--	--	--	120,000	44,000	< 3.8	U
Dimethylphthalate	--	--	--	2,900,000	1,100,000	< 3.8	U
Di-n-Octyl phthalate	--	--	--	--	--	< 3.8	U
Phenols (µg/L)							
2,3,4,6-Tetrachlorophenol	--	--	--	--	--	< 6.7	U
2,4,5-Trichlorophenol	--	--	--	--	3,600	< 3.8	U
2,4,6-Trichlorophenol	--	--	--	6.5	2.4	< 5.7	U
2,4-Dichlorophenol	--	--	--	790	290	< 3.8	U
2,4-Dimethylphenol	--	--	--	--	850	< 19	U
2,4-Dinitrophenol	--	--	--	14,000	5,300	< 48	U
2-Chlorophenol	--	--	--	--	150	< 3.8	U
2-Methylphenol	--	--	--	--	--	< 3.8	U
2-Nitrophenol	--	--	--	--	--	< 3.8	U
4,6-Dinitro-2-Methylphenol	--	--	--	765	280	< 38	U
4-Chloro-3-methylphenol	--	--	--	--	--	< 3.8	U
4-Methylphenol	--	--	--	--	--	< 7.7	U
4-Nitrophenol	--	--	--	--	--	< 29	U

**Table S-3. Water Sample Results
South Service Center**

	Location ID					SC-MH-20	
	Collection Date					12/11/2014	
Analyte	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	
		Marine		HHO	HHO		
		Chronic	Acute				
Pentachlorophenol	--	7.9	13	8.2	3.0	4.5	J
Phenol	--	--	--	4,600,000	860,000	< 5.7	U
Other SVOCs (µg/L)							
1,2,4-Trichlorobenzene	--	--	--	--	70	< 3.8	U
1,2-Dichlorobenzene	--	--	--	17,000	1,300	< 3.8	U
1,3-Dichlorobenzene	--	--	--	2,600	960	< 3.8	U
1,4-Dichlorobenzene	--	--	--	2,600	190	< 3.8	U
2,4-Dinitrotoluene	--	--	--	9.1	3.4	< 3.8	U
2,6-Dinitrotoluene	--	--	--	--	--	< 3.8	U
2-Nitroaniline	--	--	--	--	--	< 3.8	U
3,3'-Dichlorobenzidine	--	--	--	0.077	0.028	< 19	U
3-Nitroaniline	--	--	--	--	--	< 3.8	U
4-Bromophenyl-phenylether	--	--	--	--	--	< 3.8	U
4-Chloroaniline	--	--	--	--	--	R	
4-Chlorophenyl-phenylether	--	--	--	--	--	< 3.8	U
4-Nitroaniline	--	--	--	--	--	< 5.7	U
Benzoic Acid	--	--	--	--	--	< 29	U
Benzyl Alcohol	--	--	--	--	--	< 3.8	U
2,2'-Oxybis(1-Chloropropane)	--	--	--	170,000	65,000	< 3.8	U
bis(2-Chloroethoxy) Methane	--	--	--	--	--	< 3.8	U
Bis-(2-Chloroethyl) Ether	--	--	--	1.4	0.53	< 3.8	U
Carbazole	--	--	--	--	--	< 3.8	U
Hexachlorobenzene	--	--	--	0.00077	0.00029	< 3.8	U
Hexachlorobutadiene	--	--	--	50	18	< 5.7	U
Hexachlorocyclopentadiene	--	--	--	17,000	1,100	< 19	U
Hexachloroethane	--	--	--	8.9	3.3	< 5.7	U
Isophorone	--	--	--	600	960	< 3.8	U
Nitrobenzene	--	--	--	1,900	690	< 3.8	U
N-Nitrosodimethylamine	--	--	--	8.1	3.0	< 19	U
N-Nitroso-Di-N-Propylamine	--	--	--	--	0.51	< 3.8	U
N-Nitrosodiphenylamine	--	--	--	16	6.0	< 3.8	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

**Table S-4. Water Sample Results Compared to Criteria
South Service Center**

Location ID	SC-MH-20				
Collection Date	12/11/2014				
Analyte	Exceedance Factor				
	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms
Total Metals					
Copper	4.6	17	11		
Lead		1.5			
Zinc	1.9	2.6	2.3		
PCB Congeners					
Total PCB Congeners		1.7		304	806
PAHs					
Benzo(a)pyrene				7.4	13
Dibenz(a,h)anthracene				7.4	13
Phenols					
Pentachlorophenol					1.5

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 S-5. Water Sample Results - PCB Congeners
South Service Center**

Location ID	SC-MH-20
Collection Date	12/11/2014
Analyte	Result
Total PCB Congeners (µg/L)	0.0516 J
Total PCB Congeners (pg/L)	51,600 J
Total Mono-CB (pg/L)	8.08 J
PCB-1	3.44 J
PCB-2	1.67 J
PCB-3	2.97 J
Total Di-CB (pg/L)	408 J
PCB-4/10	32.4
PCB-5/8	88.3
PCB-6	19.4
PCB-7/9	7.24 J
PCB-11	96.6
PCB-12/13	13.8 J
PCB-14	< 7.32 U
PCB-15	150
Total Tri-CB (pg/L)	3,010 J
PCB-16/32	253
PCB-17	102
PCB-18	242
PCB-19	37.6
PCB-20/21/33	331
PCB-22	298
PCB-23	< 0.852 U
PCB-24/27	32.8
PCB-25	41.8
PCB-26	88.3
PCB-28	579
PCB-29	3.33 J
PCB-30	< 0.915 U
PCB-31	454
PCB-34	1.44 J
PCB-35	23.7
PCB-36	< 1.48 U
PCB-37	514
PCB-38	5.95
PCB-39	< 1.44 U
Total Tetra-CB (pg/L)	8,890 J
PCB-40	200
PCB-41/64/71/72	856
PCB-42/59	280
PCB-43/49	525
PCB-44	876
PCB-45	96.4
PCB-46	44.4
PCB-47	199
PCB-48/75	133
PCB-50	< 1.50 U
PCB-51	34.2
PCB-52/69	869
PCB-53	69.9
PCB-54	1.21 J
PCB-55	41.4

**Table S-5. Water Sample Results - PCB Congeners
South Service Center**

Location ID	SC-MH-20
Collection Date	12/11/2014
Analyte	Result
PCB-56/60	1,060
PCB-57	5.84
PCB-58	2.43 J
PCB-61/70	1,550
PCB-62	< 1.35 U
PCB-63	39.4
PCB-65	< 1.31 U
PCB-67	36.5
PCB-68	10.7
PCB-73	< 3.23 U
PCB-74	511
PCB-76/66	1,090
PCB-77	315
PCB-78	< 1.21 U
PCB-79	28.2
PCB-80	< 1.05 U
PCB-81	20.1
Total Penta-CB (pg/L)	16,800 J
PCB-82	426
PCB-83	< 3.72 U
PCB-84/92	892
PCB-85/116	496
PCB-86	8.58
PCB-87/117/125	1,030
PCB-88/91	310
PCB-89	23.2
PCB-90/101	2,220
PCB-93	< 3.86 U
PCB-94	9.14
PCB-95/98/102	1,450
PCB-96	12.7
PCB-97	772
PCB-99	886
PCB-100	4.27 J
PCB-103	7.68
PCB-104	< 2.73 U
PCB-105	1,440
PCB-106/118	2,980
PCB-107/109	207
PCB-108/112	111
PCB-110	3,120
PCB-111/115	38.6
PCB-113	< 3.90 U
PCB-114	71.6
PCB-119	33.0
PCB-120	5.74
PCB-121	< 2.29 U
PCB-122	38.3
PCB-123	51.2
PCB-124	127
PCB-126	48.3
PCB-127	< 4.40 U

**Table S-5. Water Sample Results - PCB Congeners
South Service Center**

Location ID	SC-MH-20
Collection Date	12/11/2014
Analyte	Result
Total Hexa-CB (pg/L)	13,300 J
PCB-128/162	623
PCB-129	175
PCB-130	220
PCB-131	< 3.77 U
PCB-132/161	863
PCB-133/142	71.1
PCB-134/143	136
PCB-135	331
PCB-136	267
PCB-137	171
PCB-138/163/164	3,360
PCB-139/149	2,120
PCB-140	18.8
PCB-141	619
PCB-144	101
PCB-145	< 1.91 U
PCB-146/165	323
PCB-147	50.3
PCB-148	< 2.82 U
PCB-150	3.38 J
PCB-151	456
PCB-152	2.56 J
PCB-153	2,350
PCB-154	21.4
PCB-155	< 1.84 U
PCB-156	391
PCB-157	93.6
PCB-158/160	399
PCB-159	< 2.70 U
PCB-166	< 12.1 U*
PCB-167	155
PCB-168	< 2.52 U
PCB-169	< 2.92 U
Total Hepta-CB (pg/L)	6,440 J
PCB-170	875
PCB-171	202
PCB-172	144
PCB-173	16.9
PCB-174	712
PCB-175	35.2
PCB-176	77.2
PCB-177	414
PCB-178	143
PCB-179	250
PCB-180	1,800
PCB-181	< 1.29 U
PCB-182/187	934
PCB-183	431
PCB-184	1.84 J
PCB-185	81.0
PCB-186	< 1.11 U

**Table S-5. Water Sample Results - PCB Congeners
South Service Center**

Location ID	SC-MH-20
Collection Date	12/11/2014
Analyte	Result
PCB-188	3.08 J
PCB-189	33.6
PCB-190	165
PCB-191	33.6
PCB-192	< 1.15 U
PCB-193	83.7
Total Octa-CB (pg/L)	2,150
PCB-194	475
PCB-195	163
PCB-196/203	637
PCB-197	16.6
PCB-198	21.3
PCB-199	591
PCB-200	59.6
PCB-201	63.3
PCB-202	94.1
PCB-204	< 2.09 U
PCB-205	24.4
Total Nona-CB (pg/L)	496
PCB-206	360
PCB-207	41.9
PCB-208	94.3
Deca-CB (pg/L)	53.5
PCB-209	53.5
PCB TEQ, nd SDL*0	5.02
PCB TEQ, nd SDL*0.5	5.07
PCB TEQ, nd SDL*1	5.11

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

**Table S-6. Water Sample Results - Conventionals
South Service Center**

		Location ID	SC-MH-20
		Collection	12/11/2014
Analyte	ISGP Benchmark	Units	Result
Conventionals			
Alkalinity	--	mg/L	5.3
Bicarbonate	--	mg/L CaCO ₃	5.3
Carbonate	--	mg/L CaCO ₃	< 5 U
Chloride	--	mg/L	0.66 J
Specific Conductance	--	µmhos/cm	14
Hydroxide	--	mg/L CaCO ₃	na
Nitrate	--	mg/L	< 0.9 UJ
pH	5-9	std units	6.61 J
Salinity	--	mg/L	na
Sulfate	--	mg/L	0.87 J
Dissolved Organic Carbon	--	mg/L	2.9
Total Organic Carbon	--	mg/L	3.5
Total Suspended Solids ^a	30	mg/L	14
Turbidity	25	NTU	na
Oil & Grease	--	mg/L	na
Oil & Grease - Polar	--	mg/L	na
Oil & Grease - Silica Gel Treated	--	mg/L	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 S-7. Solids Sample Results
South Service Center**

Location ID				SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date				12/11/2014	12/11/2014	12/11/2014
Analyte	SMS Criteria		Unit	Result	Result	Result
	SCO/ LAET ^a	CSL/ 2LAET				
Metals (Total) (mg/kg)						
Antimony	--	--	mg/kg	9.4	8.2	9.4
Arsenic	57	93	mg/kg	10	14	14
Beryllium	--	--	mg/kg	0.22 J	0.22 J	0.23 J
Cadmium	5.1	6.7	mg/kg	3.3	4.3	5.5
Chromium	260	270	mg/kg	62	130	66
Copper	390	390	mg/kg	2,500	990	740
Lead	450	530	mg/kg	490	250	430
Mercury	0.41	0.59	mg/kg	0.18	0.20	1.1
Nickel	--	--	mg/kg	47	110	46
Selenium	--	--	mg/kg	1.0 J	1.1	1.1 J
Silver	6.1	6.1	mg/kg	0.56	1.2	1.3
Thallium	--	--	mg/kg	< 0.97 U	< 0.81 U	< 1.4 U
Zinc	410	960	mg/kg	1,600	2,700	2,000
PCB Aroclors (µg/kg)						
Aroclor 1016	--	--	µg/kg	< 20 U	< 18 U	< 32 U
Aroclor 1221	--	--	µg/kg	< 22 U	< 20 U	< 36 U
Aroclor 1232	--	--	µg/kg	< 22 U	< 20 U	< 36 U
Aroclor 1242	--	--	µg/kg	< 20 U	< 18 U	< 32 U
Aroclor 1248	--	--	µg/kg	180 J	130	1,600
Aroclor 1254	--	--	µg/kg	< 20 U	< 18 U	< 32 U
Aroclor 1260	--	--	µg/kg	390	390 J	1,900
Total PCB Aroclors	130	1,000	µg/kg	570 J	520 J	3,500
PCB Congeners (µg/kg) ^b						
Total PCB Congeners	130	1,000	µg/kg	1,320 J	762 J	7,500 J
PCB TEQ, nd SDL*0	--	--	µg/kg	0.149	0.0894	0.608
PCB TEQ, nd SDL*0.5	--	--	µg/kg	0.152	0.0934	0.608
PCB TEQ, nd SDL*1	--	--	µg/kg	0.154	0.0975	0.608
Dioxins and Furans (ng/kg)						
2,3,7,8-TCDD	--	--	ng/kg	< 9.7 U*	21.6	49
1,2,3,7,8-PeCDD	--	--	ng/kg	82.8	184	434
1,2,3,4,7,8-HxCDD	--	--	ng/kg	182	537	1,030
1,2,3,6,7,8-HxCDD	--	--	ng/kg	533	1,150	3,010
1,2,3,7,8,9-HxCDD	--	--	ng/kg	365	1,060	1,980
1,2,3,4,6,7,8-HpCDD	--	--	ng/kg	15900	39,400 J	104,000 J
OCDD	--	--	ng/kg	201,000 J	442,000 J	1,160,000 J
2,3,7,8-TCDF	--	--	ng/kg	17.9	15.9	78.6
1,2,3,7,8-PeCDF	--	--	ng/kg	24.1 J	27.1	119
2,3,4,7,8-PeCDF	--	--	ng/kg	33	26.3	193
1,2,3,4,7,8-HxCDF	--	--	ng/kg	177	203	996
1,2,3,6,7,8-HxCDF	--	--	ng/kg	125	158	931
1,2,3,7,8,9-HxCDF	--	--	ng/kg	48.3	39.2	227
2,3,4,6,7,8-HxCDF	--	--	ng/kg	168	228	1,180
1,2,3,4,6,7,8-HpCDF	--	--	ng/kg	4,530	5,500	25,300 J
1,2,3,4,7,8,9-HpCDF	--	--	ng/kg	399	505	1,410
OCDF	--	--	ng/kg	25,800	35,600	70,100 J
Dioxin/Furan TEQ, nd SDL*0	25	--	ng/kg	531 J	1,150 J	3,160 J
Dioxin/Furan TEQ, nd SDL*0.5	25	--	ng/kg	536 J	1,150 J	3,160 J
Dioxin/Furan TEQ, nd SDL*1	25	--	ng/kg	541 J	1,150 J	3,160 J
Total TCDD	--	--	ng/kg	53.4 J	105 J	288 J
Total TCDF	--	--	ng/kg	252 J	248 J	1,070 J
Total PeCDD	--	--	ng/kg	337 J	656 J	1,780 J
Total PeCDF	--	--	ng/kg	981	1,200 J	6,130 J

**Table S-7. Solids Sample Results
South Service Center**

Location ID				SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date				12/11/2014	12/11/2014	12/11/2014
Analyte	SMS Criteria		Unit	Result	Result	Result
	SCO/ LAET ^a	CSL/ 2LAET				
Total HxCDD	--	--	ng/kg	3,450	7,590	21,400
Total HxCDF	--	--	ng/kg	4,710	5,770	30,700 J
Total HpCDD	--	--	ng/kg	29,400	62,200	193,000
Total HpCDF	--	--	ng/kg	16,700	22,300	70,800
PAHs (µg/kg)						
1-Methylnaphthalene	--	--	µg/kg	110 J	280 J	< 970 U
2-Chloronaphthalene	--	--	µg/kg	< 420 U	< 370 U	< 650 U
2-Methylnaphthalene	670	1,400	µg/kg	110 J	360 J	170 J
Acenaphthene	500	730	µg/kg	190 J	250 J	270 J
Acenaphthylene	1,300	1,300	µg/kg	< 420 U	< 370 U	170 J
Anthracene	960	4,400	µg/kg	490	< 370 U	820
Benzo(a)anthracene	1,300	1,600	µg/kg	1,600	1,200	2,300
Benzo(a)pyrene	1,600	3,000	µg/kg	1,500	1,400	2,800
Benzo(g,h,i)perylene	670	720	µg/kg	850	880	2,000
Chrysene	1,400	2,800	µg/kg	3,400	2,200	5,400
Dibenz(a,h)anthracene	230	540	µg/kg	< 850 U	< 740 U	500 J
Dibenzofuran	540	700	µg/kg	110 J	140 J	230 J
Fluoranthene	1,700	2,500	µg/kg	4,000	2,700	7,100
Fluorene	540	1,000	µg/kg	< 420 U	260 J	460 J
Indeno(1,2,3-cd)pyrene	600	690	µg/kg	680 J	790	1,900
Naphthalene	2,100	2,400	µg/kg	120 J	290 J	210 J
Phenanthrene	1,500	5,400	µg/kg	2,700	2,100	4,200
Pyrene	2,600	3,300	µg/kg	4,300	2,800	7,200
Total Benzofluoranthenes	3,200	3,600	µg/kg	3,700	3,700	7,000
Total HPAHs	12,000	17,000	µg/kg	20,000 J	16,000	36,000 J
Total LPAHs	5,200	13,000	µg/kg	3,500 J	2,900 J	6,100 J
cPAHs, nd RL*0	1,000	--	µg/kg	2,100 J	2,000	4,000 J
cPAHs, nd RL*0.5	1,000	--	µg/kg	2,200 J	2,000	4,000 J
cPAHs, nd RL*1	1,000	--	µg/kg	2,200 J	2,000	4,000 J
Phthalates (µg/kg)						
bis(2-Ethylhexyl)phthalate	1,300	1,900	µg/kg	64,000	87,000	120,000
Butylbenzylphthalate	63	900	µg/kg	< 4,200 U	6,000	6,100 J
Di-n-Butylphthalate	1,400	5,100	µg/kg	35,000	1,900 J	< 16,000 U
Diethylphthalate	200	1,200	µg/kg	< 4,200 U	< 3,700 U	< 6,500 U
Dimethylphthalate	71	160	µg/kg	1,200 J	180 J	420 J
Di-n-Octyl phthalate	6,200	--	µg/kg	4,600 J	4,900 J	5,300 J
Phenols (µg/kg)						
2,4,5-Trichlorophenol	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2,4,6-Trichlorophenol	--	--	µg/kg	< 3,200 U	< 2,800 U	< 4,900 U
2,4-Dichlorophenol	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2,4-Dimethylphenol	29	29	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2,4-Dinitrophenol	--	--	µg/kg	< 21,000 U	< 18,000 U	< 32,000 U
2-Chlorophenol	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2-Methylphenol	63	63	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2-Nitrophenol	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
4,6-Dinitro-2-Methylphenol	--	--	µg/kg	< 21,000 U	< 18,000 U	< 32,000 U
4-Chloro-3-methylphenol	--	--	µg/kg	700 J	< 1,800 U	< 3,200 U
4-Methylphenol	670	670	µg/kg	< 4,200 U	400 J	1,100 J
4-Nitrophenol	--	--	µg/kg	< 21,000 U	< 18,000 U	< 32,000 U
Pentachlorophenol	360	690	µg/kg	1,800 J	8,100	9,500
Phenol	420	1,200	µg/kg	520 J	< 1,800 U	< 3,200 U

**Table S-7. Solids Sample Results
South Service Center**

Location ID				SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date				12/11/2014	12/11/2014	12/11/2014
Analyte	SMS Criteria		Unit	Result	Result	Result
	SCO/ LAET ^a	CSL/ 2LAET				
Other SVOCs (µg/kg)						
1,2,4-Trichlorobenzene	31	51	µg/kg	< 1,100 U	< 920 U	< 1,600 U
1,2-Dichlorobenzene	35	50	µg/kg	< 1,200 U	< 1,000 U	< 1,800 U
1,3-Dichlorobenzene	--	--	µg/kg	< 1,100 U	< 920 U	< 1,600 U
1,4-Dichlorobenzene	110	120	µg/kg	< 1,100 U	< 920 U	< 1,600 U
2,4-Dinitrotoluene	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2,6-Dinitrotoluene	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
2-Nitroaniline	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
3,3'-Dichlorobenzidine	--	--	µg/kg	< 4,200 U	< 3,700 U	< 6,500 U
3-Nitroaniline	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
4-Bromophenyl-phenylether	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
4-Chloroaniline	--	--	µg/kg	< 2,100 UJ	< 1,800 UJ	< 3,200 UJ
4-Chlorophenyl-phenylether	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
4-Nitroaniline	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
Benzoic Acid	650	650	µg/kg	< 53,000 U	< 46,000 U	< 81,000 U
Benzyl Alcohol	57	73	µg/kg	< 2,100 U	46,000	1,400 J
2,2'-Oxybis(1-Chloropropane)	--	--	µg/kg	< 5,300 U	< 4,600 U	< 8,100 U
bis(2-Chloroethoxy) Methane	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
Bis-(2-Chloroethyl) Ether	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
Carbazole	--	--	µg/kg	400 J	< 1,800 U	550 J
Hexachlorobenzene	22	70	µg/kg	< 1,100 U	< 920 U	< 1,600 U
Hexachlorobutadiene	11	120	µg/kg	< 1,100 U	< 920 U	< 1,600 U
Hexachlorocyclopentadiene	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
Hexachloroethane	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
Isophorone	--	--	µg/kg	< 2,100 U	110 J	< 3,200 U
Nitrobenzene	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
N-Nitrosodimethylamine	--	--	µg/kg	< 21,000 U	< 18,000 U	< 32,000 U
N-Nitroso-Di-N-Propylamine	--	--	µg/kg	< 2,100 U	< 1,800 U	< 3,200 U
N-Nitrosodiphenylamine	28	40	µg/kg	160 J	< 920 U	< 1,600 U
VOCs (µg/kg)						
1,1,1,2-Tetrachloroethane	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ	na
1,1,1-Trichloroethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U	na
1,1,2,2-Tetrachloroethane	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U	na
1,1,2-Trichloroethane	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
1,1-Dichloroethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U	na
1,1-Dichloroethene	--	--	µg/kg	< 13 UJ	< 7.1 U	na
1,1-Dichloropropene	--	--	µg/kg	< 2.6 UJ	< 1.4 U	na
1,2,3-Trichlorobenzene	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
1,2,3-Trichloropropane	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ	na
1,2,4-Trimethylbenzene	--	--	µg/kg	12 J	8 J	na
1,2-Dibromo-3-chloropropane	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
1,2-Dibromoethane	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ	na
1,2-Dichloroethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U	na
1,2-Dichloropropane	--	--	µg/kg	< 2.6 UJ	< 1.4 U	na
1,3,5-Trimethylbenzene	--	--	µg/kg	7.8 J	5 J	na
1,3-Dichloropropane	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
2,2-Dichloropropane	--	--	µg/kg	< 13 UJ	< 7.1 U	na
2-Chloroethylvinylether	--	--	µg/kg	< 13 UJ	< 7.1 UJ	na
2-Chlorotoluene	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
2-Hexanone	--	--	µg/kg	< 13 UJ	2.4 J	na
4-Chlorotoluene	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ	na
Acetone	--	--	µg/kg	540 J	190 J	na

**Table S-7. Solids Sample Results
South Service Center**

				Location ID	SC-CB-24	SC-CB-35	SC-OWS-05
				Collection Date	12/11/2014	12/11/2014	12/11/2014
Analyte	SMS Criteria		Unit	Result	Result	Result	Result
	SCO/ LAET ^a	CSL/ 2LAET					
Acrolein	--	--	µg/kg	< 77 UJ	< 43 U		na
Acrylonitrile	--	--	µg/kg	< 26 UJ	< 14 U		na
Benzene	--	--	µg/kg	3.0 J	0.84 J		na
Bromobenzene	--	--	µg/kg	< 5.2 UJ	< 2.8 UJ		na
Bromochloromethane	--	--	µg/kg	< 5.2 UJ	< 2.8 U		na
Bromoform	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ		na
Bromomethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Carbon Disulfide	--	--	µg/kg	2.2 J	4.8 J		na
Carbon Tetrachloride	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Chlorobenzene	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ		na
Dibromochloromethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Chloroethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Chloroform	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Chloromethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
cis-1,2-Dichloroethene	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
cis-1,3-Dichloropropene	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ		na
Dibromomethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Bromodichloromethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Dichlorodifluoromethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Ethylbenzene	--	--	µg/kg	14 J	11 J		na
Isopropylbenzene	--	--	µg/kg	50 J	0.94 J		na
m,p-Xylene	--	--	µg/kg	43 J	39 J		na
2-Butanone	--	--	µg/kg	< 26 UJ	45 J		na
Iodomethane	--	--	µg/kg	< 39 UJ	< 21 U		na
4-Methyl-2-Pentanone (MIBK)	--	--	µg/kg	22 J	4.2 J		na
Methyl tert-Butyl Ether	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Methylene Chloride	--	--	µg/kg	< 39 UJ	< 21 U		na
n-Butylbenzene	--	--	µg/kg	< 5 UJ	< 3 UJ		na
n-Propylbenzene	--	--	µg/kg	< 5.2 UJ	1.3 J		na
o-Xylene	--	--	µg/kg	29 J	19 J		na
4-Isopropyltoluene	--	--	µg/kg	25 J	4.3 J		na
sec-Butylbenzene	--	--	µg/kg	3.4 J	1.1 J		na
Styrene	--	--	µg/kg	1.1 J	2.1 J		na
tert-Butylbenzene	--	--	µg/kg	1.2 J	< 2.8 UJ		na
Tetrachloroethene	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ		na
Toluene	--	--	µg/kg	26 J	17 J		na
Total Xylenes	--	--	µg/kg	72 J	58 J		na
trans-1,2-Dichloroethene	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
trans-1,3-Dichloropropene	--	--	µg/kg	< 2.6 UJ	< 1.4 UJ		na
trans-1,4-Dichloro-2-butene	--	--	µg/kg	< 13 UJ	< 7.1 UJ		na
Trichloroethene	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Trichlorofluoromethane	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
Vinyl Acetate	--	--	µg/kg	< 13 UJ	< 7.1 U		na
Vinyl Chloride	--	--	µg/kg	< 2.6 UJ	< 1.4 U		na
TPH (mg/kg)							
Gasoline-Range Hydrocarbons	30/100	--	mg/kg	31	11 J		na
Diesel-Range Hydrocarbons	2,000	--	mg/kg	1,700 J	4,300 J		5,900 J
Motor Oil-Range Hydrocarbons	2,000	--	mg/kg	8,900 J	5,800 J		15,000 J
Grain size (%)							
Clay	--	--	%	1.5	1.5		1.8
Silt	--	--	%	53	39		69
Sand	--	--	%	45	59		26

**Table S-7. Solids Sample Results
South Service Center**

Location ID				SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date				12/11/2014	12/11/2014	12/11/2014
Analyte	SMS Criteria		Unit	Result	Result	Result
	SCO/ LAET ^a	CSL/ 2LAET				
Gravel	--	--	%	0.85	0.29	3.5
Cobbles	--	--	%	0.0	0.0	0.0
Conventionals (%)						
Total Organic Carbon	--	--	%	14	8.4	21
Total Solids	--	--	%	47.2	53.7	30.0

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

b - Total PCB congeners and PCB/dioxin/furan TEQs include only congeners that met identification criteria as required by EPA Method 1668C (PCBs) or EPA Method 1613B (dioxins/furans).

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

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

Results in **bold** are detections.

**Table S-8. Solids Sample Results Compared to Dry Weight Criteria
South Service Center**

Location ID	SC-CB-24		SC-CB-35		SC-OWS-05	
Collection Date	12/11/2014		12/11/2014		12/11/2014	
Analyte	Exceedance Factor		Exceedance Factor		Exceedance Factor	
	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET
Metals (Total)						
Cadmium					1.1	
Copper	6.4	6.4	2.5	2.5	1.9	1.9
Mercury					2.7	1.9
Zinc	3.9	1.7	6.6	2.8	4.9	2.1
PCBs						
Total PCB Aroclors	4.4		4.0		27	
Total PCB Congeners	10	1.3	5.9		58	7.5
Dioxins and Furans						
Dioxin/Furan TEQ, nd SDL*0	21		46		126	
Dioxin/Furan TEQ, nd SDL*0.5	21		46		126	
Dioxin/Furan TEQ, nd SDL*1	22		46		126	
PAHs						
Benzo(a)anthracene	1.2				1.8	1.4
Benzo(a)pyrene					1.8	
Benzo(g,h,i)perylene	1.3	1.2	1.3	1.2	3.0	2.8
Chrysene	2.4	1.2	1.6		3.9	1.9
Dibenz(a,h)anthracene					2.2	
Fluoranthene	2.4	1.6	1.6	1.1	4.2	2.8
Indeno(1,2,3-cd)pyrene	1.1	1.0	1.3	1.1	3.2	2.8
Phenanthrene	1.8		1.4		2.8	
Pyrene	1.7	1.3	1.1		2.8	2.2
Total Benzofluoranthenes	1.2	1.0	1.2	1.0	2.2	1.9
Total HPAHs	1.7	1.2	1.3		3.0	2.1
Total LPAHs					1.2	
cPAHs, nd RL*0	2.1		2.0		4.0	
cPAHs, nd RL*0.5	2.2		2.0		4.0	
cPAHs, nd RL*1	2.2		2.0		4.0	
Phthalates						
bis(2-Ethylhexyl)phthalate	49	34	67	46	92	63
Butylbenzylphthalate			95	6.7	97	6.8
Di-n-Butylphthalate	25	6.9	1.4			
Dimethylphthalate	17	7.5	2.5	1.1	5.9	2.6
Phenols						
4-Methylphenol					1.6	1.6
Pentachlorophenol	5.0	2.6	23	12	26	14
Other SVOCs						
Benzyl Alcohol			807	630	25	19
N-Nitrosodiphenylamine	5.7	4.0				
TPH						
Gasoline-Range Hydrocarbons	1.0					
Diesel-Range Hydrocarbons			2.2		3.0	
Motor Oil-Range Hydrocarbons	4.5		2.9		7.5	

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 S-9. Solids Sample Results - PCB Congeners
South Service Center**

Location ID	SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date	12/11/2014	12/11/2014	12/11/2014
Analyte	Result	Result	Result
Total PCB Congeners (ng/kg)^a	1,320,000 J	762,000 J	7,500,000 J
Total Monochlorobiphenyl (ng/kg)^a	239	< 194 U	1,020
PCB-1	132	< 174 U	447
PCB-2	< 161 U	< 194 U	148
PCB-3	107	< 161 U	427
Total Dichlorobiphenyl (ng/kg)^a	7,270 J	6,190	79,000
PCB-4/10	< 711 U	< 620 U	6,520
PCB-5/8	1,170	1,480	23,400
PCB-6	< 238 U*	< 503 U	8,660
PCB-7/9	< 581 U	< 543 U	2,730
PCB-11	4,330	2,860	5,450
PCB-12/13	< 576 U	< 607 U	3,280
PCB-14	< 620 U	< 653 U	< 695 U
PCB-15	1,770	1,850	29,000
Total Trichlorobiphenyl (ng/kg)^a	37,400	40,200 J	734,000 J
PCB-16/32	2,550	2,900	76,800
PCB-17	1,160	1,320	35,300
PCB-18	3,190	3,510	95,600
PCB-19	323	< 377 U*	12,000
PCB-20/21/33	5,400	5,490	70,900
PCB-22	3,440	3,580	56,500
PCB-23	< 105 U	< 96.5 U	< 67.1 U*
PCB-24/27	321	313	9,250
PCB-25	475	571	16,500
PCB-26	1,040	1,120	30,900
PCB-28	5,010	5,570	117,000
PCB-29	< 125 U	< 114 U	722
PCB-30	< 75.5 U	< 106 U	< 69.3 U
PCB-31	5,530	6,020	111,000
PCB-34	< 118 U	< 109 U	1,250
PCB-35	565	570	3,880
PCB-36	< 133 U	< 115 U	< 219 U
PCB-37	8,390	9,200	93,900
PCB-38	< 126 U	< 110 U	1,570
PCB-39	< 136 U	< 118 U	484
Total Tetrachlorobiphenyl (ng/kg)^a	193,000 J	133,000 J	1,790,000
PCB-40	3,620	2,900	37,000
PCB-41/64/71/72	15,900	11,300	150,000
PCB-42/59	4,430	4,050	56,200
PCB-43/49	11,600	7,480	170,000
PCB-44	21,100	10,500	146,000
PCB-45	1,400	1,340	26,100
PCB-46	585	727	14,900
PCB-47	2,850	2,420	84,600
PCB-48/75	2,150	1,880	23,800
PCB-50	< 201 U	< 202 U	498
PCB-51	437	554	50,400
PCB-52/69	25,400	9,070	175,000
PCB-53	1,270	1,110	72,600
PCB-54	< 160 U	< 161 U	6,040
PCB-55	720	522	5,370
PCB-56/60	18,600	16,900	163,000

**Table S-9. Solids Sample Results - PCB Congeners
South Service Center**

Location ID	SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date	12/11/2014	12/11/2014	12/11/2014
Analyte	Result	Result	Result
PCB-57	< 125 U*	< 177 U	1,640
PCB-58	< 173 U	< 187 U	740
PCB-61/70	41,600	25,400	243,000
PCB-62	< 181 U	< 178 U	< 263 U
PCB-63	879	784	9,050
PCB-65	< 180 U	< 178 U	< 262 U
PCB-67	687	658	7,660
PCB-68	< 115 U*	< 108 U*	2,060
PCB-73	< 162 U	< 172 U	1,870
PCB-74	9,920	7,420	75,600
PCB-76/66	21,300	20,100	207,000
PCB-77	7,140	7,160	50,800
PCB-78	< 149 U	< 151 U	< 245 U
PCB-79	743	355	3,180
PCB-80	< 136 U	< 147 U	< 247 U
PCB-81	411	183	1,380
Total Pentachlorobiphenyl (ng/kg)^a	469,000	194,000 J	1,880,000 J
PCB-82	10,300	5,610	40,000
PCB-83	< 239 U	< 397 U	< 207 U*
PCB-84/92	27,200	9,260	107,000
PCB-85/116	11,300	5,260	47,900
PCB-86	238	< 716 U	1,440
PCB-87/117/125	27,400	10,500	100,000
PCB-88/91	8,670	3,060	48,200
PCB-89	610	< 319 U*	3,350
PCB-90/101	73,600	27,300	287,000
PCB-93	< 457 U	< 820 U	< 489 U
PCB-94	322	< 654 U	4,170
PCB-95/98/102	48,200	13,700	161,000
PCB-96	430	< 389 U	4,780
PCB-97	20,200	8,260	84,800
PCB-99	25,000	9,620	107,000
PCB-100	130	< 473 U	6,010
PCB-103	319	< 463 U	4,780
PCB-104	< 221 U	< 374 U	582
PCB-105	35,700	18,500	138,000
PCB-106/118	79,900	39,100	306,000
PCB-107/109	4,900	2,490	20,000
PCB-108/112	2,670	< 1,170 U*	13,300
PCB-110	81,300	35,000	346,000 J
PCB-111/115	918	474	3,390
PCB-113	< 243 U	< 479 U	< 287 U
PCB-114	1,840	836	6,880
PCB-119	975	695	11,900
PCB-120	137	< 360 U	< 1,060 U*
PCB-121	< 239 U	< 428 U	< 255 U
PCB-122	872	517	4,020
PCB-123	1,350	860	4,560
PCB-124	3,100	1,620	10,700
PCB-126	1,440	865	5,780
PCB-127	< 277 U	< 291 U	< 279 U

**Table S-9. Solids Sample Results - PCB Congeners
South Service Center**

Location ID	SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date	12/11/2014	12/11/2014	12/11/2014
Analyte	Result	Result	Result
Total Hexachlorobiphenyl (ng/kg)^a	376,000 J	213,000 J	1,800,000 J
PCB-128/162	15,300	7,930	66,600
PCB-129	5,850	2,720	21,100
PCB-130	6,110	3,730	25,900
PCB-131	< 285 U	< 452 U	< 78.9 U*
PCB-132/161	26,900	13,500	117,000
PCB-133/142	2,900	1,430	13,300
PCB-134/143	4,980	2,400	19,400
PCB-135	8,020	5,130	46,000
PCB-136	7,230	3,810	37,400
PCB-137	5,280	2,100	20,400
PCB-138/163/164	91,200	52,000	412,000
PCB-139/149	59,900	35,800	322,000
PCB-140	< 422 U*	< 293 U*	3,170
PCB-141	16,500	10,500	74,600
PCB-144	3,960	< 2,080 U*	15,600
PCB-145	< 248 U	< 219 U	< 267 U
PCB-146/165	9,870	5,920	53,600
PCB-147	1,330	539	11,600
PCB-148	< 400 U	< 354 U	792
PCB-150	< 298 U	< 264 U	1,770
PCB-151	13,000	9,040	78,800
PCB-152	< 267 U	< 236 U	< 663 U*
PCB-153	67,300	40,600	331,000 J
PCB-154	747	628	8,500
PCB-155	< 267 U	< 237 U	< 288 U
PCB-156	11,400	5,850	45,200
PCB-157	2,560	1,340	9,880
PCB-158/160	11,400	5,990	46,000
PCB-159	< 179 U	< 349 U	< 304 U
PCB-166	387	219	1,360
PCB-167	4,180	2,190	17,400
PCB-168	< 178 U	< 283 U	674
PCB-169	< 181 U	< 271 U	279
Total Heptachlorobiphenyl (ng/kg)^a	171,000 J	131,000 J	950,000 J
PCB-170	20,500	16,800 J	123,000
PCB-171	4,440	3,430	28,100
PCB-172	3,110	2,450	16,300
PCB-173	390	293	3,020
PCB-174	19,400	15,500	113,000
PCB-175	954	817	5,380
PCB-176	2,210	1,760	12,600
PCB-177	11,500	9,260	70,900
PCB-178	3,870	< 2,980 U*	21,800
PCB-179	7,370	5,720	44,200
PCB-180	52,500	41,200	275,000 J
PCB-181	< 175 U	< 226 U	468
PCB-182/187	22,800	17,200	122,000
PCB-183	11,600	8,680	58,200
PCB-184	< 61.7 U*	< 168 U	< 143 U*
PCB-185	1,700	1,260	9,050
PCB-186	< 129 U	< 189 U	< 159 U

**Table S-9. Solids Sample Results - PCB Congeners
South Service Center**

Location ID	SC-CB-24	SC-CB-35	SC-OWS-05
Collection Date	12/11/2014	12/11/2014	12/11/2014
Analyte	Result	Result	Result
PCB-188	112	< 174 U	441
PCB-189	824	927	4,770
PCB-190	4,060	3,140	23,400
PCB-191	1,010	758	4,980
PCB-192	< 138 U	< 179 U	< 165 U
PCB-193	2,190	1,910	13,500
Total Octachlorobiphenyl (ng/kg)^a	57,100 J	37,700 J	228,000
PCB-194	12,000	9,210	53,900
PCB-195	3,820	3,080	20,400
PCB-196/203	18,600	11,400	66,400
PCB-197	< 452 U*	352	2,310
PCB-198	761	< 422 U*	2,530
PCB-199	14,900	9,510	56,700
PCB-200	1,670	998	6,440
PCB-201	1,860	1,100	6,690
PCB-202	2,940	1,530	10,100
PCB-204	< 239 U	< 297 U	< 172 U
PCB-205	537	504	2,780
Total Nonachlorobiphenyl (ng/kg)^a	12,500	5,960	39,400
PCB-206	8,950	4,250	28,300
PCB-207	1,030	458	2,920
PCB-208	2,470	1,250	8,170
Decachlorobiphenyl (ng/kg)	1,560	1,020	6,090
PCB-209	1,560	1,020	6,090
PCB TEQ, nd SDL*0	149	89.4	608
PCB TEQ, nd SDL*0.5	152	93.4	608
PCB TEQ, nd SDL*1	154	97.5	608

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 S-1
Inspection Photographic Log

Conveyance Structure Information

Structure Identification Number:
 SC-OWS-5/OWS D

Structure Type:
 Oil Water Separator

General Location:
 Southwest portion of facility

Characteristics:
 6' to bottom of structure, 5' to depth of water, 2-3" of sediment

Pump Capacity (gpm):
 --

Design Storm:
 --

Access:
 Manhole cover

Volume Gauge:
 --



Sample ID:
 SC-OWS-05-20141211-S







Drainage Information:

OWS D is located in the southwest area of the SCL South Service Center. OWS D contains 3 chambers; the sample was collected from chamber 2. OWS D chamber 1 receives stormwater from MH-20 that drains a paved parking lot area where equipment is stored. Stormwater is conveyed from OWS D offsite to the LDW.



Conveyance Structure Information	
Structure Identification Number: SC-CB-35	<p>N ←</p> 
Structure Type: Catch Basin	
General Location: East area of facility	
Characteristics: 4.5' to bottom of structure, 2.5' to depth of water, 2" of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Catch Basin Grate	
Volume Gauge: --	
Sample ID: SC-CB-35-20141211-S	
Drainage Information:	
<p>Catch Basin CB-35 is located in the east area of the SCL South Service Center and receives stormwater from CB-36 and CB-37, paved areas adjacent to the PCB building. Stormwater is conveyed from CB-35 to a storm drain line that enters MH-17.</p>	<p>N ↓</p> 

Conveyance Structure Information	
Structure Identification Number: SC-CB-24	N↑ 
Structure Type: Catch Basin	
General Location: East Central area of facility	
Characteristics: 4.5' to bottom of structure, 2' to depth of water, 4-6" of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Catch Basin Grate	
Volume Gauge: --	
Sample ID: SC-CB-24-20141211-S	
Drainage Information:	
CB-24 is located in the east central area of the SCL South Service Center, on the north side of a salvage/scrap storage yard. Stormwater drains from underneath the scrapyard barriers, entering CB-24. Stormwater entering CB-24 contains suspended solids and has a slight sheen. CB-24 has a sediment trap to prevent floating debris from discharging to a storm drain line that enters MH-16.	N↑ 

Conveyance Structure Information	
Structure Identification Number: SC-MH-20	N→ 
Structure Type: Manhole	
General Location: Southwest portion of facility	
Characteristics: 5-6' to bottom of structure, 5' to depth of water, no sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Manhole cover	
Volume Gauge: --	
Sample ID: SC-MD-20-20141211-W	12/11/2014, 09:23:13
Drainage Information:	
MH-20 is located in the southwest area of the SCL South Service Center. MH-20 receives stormwater from an area that drains a paved parking lot area where equipment is stored. Stormwater is conveyed to OWS D that drains offsite to the LDW.	NR 

Attachment S-2
Field Documentation

Location S. Service Center Station Date 12/11/14Project / Client NPDES / Ecology

- 0700 M. Ivancench at storage unit, prepping & loading sampling equipment.
- 0800 M. Ivancench secures storage unit & departs for South Service Center Station.
- 0830 M. Ivancench & C. Nancarrow arrive at S. Service Center Station, wait off property for Ecology to arrive.
- 0837 Leidos enters site upon confirmation that Ecology is already onsite.
- 0850 Leidos & Ecology meet with Seattle City Light for introductions and overview. Bob confirmed that the Seattle City Light would like split samples.
- 0905 C. Nancarrow conducts H&S meeting.
- 0918 At OWS D MH 20 N. Inlet to OWS D from MH 20 from N. Chambers 1, 2, 3 for OWS D from N to S.
- 0920 Probing MH 20. Inlet from N/NE, outlet S. Small pocket of solids near outlet. Channelized.
- 0931 Probing chamber 1 of OWS D. Some solids. Will collect solids from chamber 2, supplement

Location S. Service Center Station Date 12/11/14Project / Client NPDES / Ecology

- with solids from chamber 1 if necessary. Approx 6' to top of plate in Chamber 2. Water approx 1' deep. Pockets of 2-3" of sediment.
- 0950 Begin setting up at OWS 5 for solids sampling. Sampling ID: SC-OWS-05-20141211-S.
- 1018 Began sampling at OWS 5, chamber 2. Unable to collect VOA's.
- 1111 Mopped to CB38. SW corner of building L. Inlet from E, ~4" Outlet to S, ~12". Approx 3' to water surface, almost 5' to bottom. 1-2" solids across bottom, more in corners. Slight sheen observed. Roof drainage & surface runoff. Flow observed.
- 1125 At CB35, inlet from E & S, 6". Outlet W. Solids on E portion, approx 2". Approx 4 1/2" deep. Approx 2 1/2" to water surface.
- 1130 C. Wilson onsite.
- 1145 Break for lunch.

Location S. Service Center Station Date 12/11/14Project / Client NPDES/Ecology

- 1225 Leidos back onsite. At CB35 to collect solids sample. Sample ID: SC-CB-35-20141211-S
- 1300 Began sampling at CB35
- 1337 Mobbed to CB-24 to collect solids. Sample ID: SC-CB-24-20141211-S
Inlets & outlets below water surface. Solids and slight sheen entering catch basin from beneath Jersey barriers to the south. Area south of location used to store cables and conduit. Storage area also has two bins open storing scrap metal and old light fixtures.
- 1400 Began sampling at CB24. Water surface, 2 qt bgs. Depth of CB 4.5 ft to bottom of CB ~ 4-6" of solids
- 1425 Completed sampling at CB24. Mobbing to MH20.
- 1435 At MH20 to collect a water sample. Sample ID: SC-MH-20-20141211-W
- 1500 Began sampling at MH20.

Location S. Service Center Station Date 12/11/14Project / Client NPDES/Ecology

Solids - ows-5	Water - MH20 ^{large} ^{drainage}
CB-35 Peribody	(up gradient of ows-5)
CB-24 Storage Area	

- 1550 Leidos transfers split samples to Seattle City Light representative.
- 1605 Leidos offsite. M. Ivancevich & C. Wilson en route to storage unit.
- 1615 U. Ivancevich & C. Wilson arrive at storage unit, unload sampling van.
- 1630 C. Wilson offsite. M. Ivancevich prepping Vista samples for shipment.
- 1745 M. Ivancevich secures storage unit, en route to FedEx to ship Vista samples.
- 1800 M. Ivancevich relinquishes Vista cooler to FedEx.
- 1900 M. Ivancevich arrives at Bothell office, places TA cooler in refrigerator until TA courier pickup.

NA 12/11/14



Sediment Collection Form

Project: NPDES Sampling Support

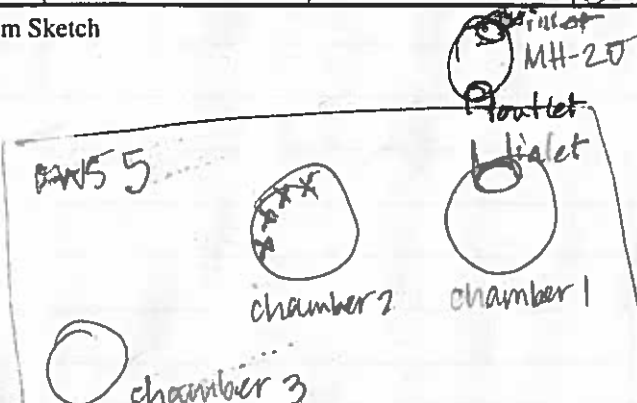
Location ID: OWS-5

Facility Name: S. service center station

Sample ID: SC-OWS-05-20141211-5

Sampled By: MI, CN

Date: 12 / 11 / 2014 Time: 1018

Structure Type: <u>OWS</u>	Dimensions: <u>Standard</u> W _____ L _____	Standing Water: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Flow: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Conveyance System Sketch 			↑ N
Depth to Bottom: <u>6'</u> ft	Depth to Water: <u>5'</u> ft	Depth of Sediment: <u>2-3</u> in	Sampled: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Discrete / <u>Composite</u> (circle one)
Sediment type: Cobble Gravel Sand - C M F <u>Silt/clay</u> <u>Organic matter</u> Debris	Sediment color: Drab olive Brown Brown surface Gray <u>Black</u> Tan	Sediment Odor: None Slight Moderate <u>Strong</u> Overwhelming H ₂ S Petroleum	Comments: Photo ID(s): _____ GPS ID: _____

NOTES: Slight sheen observed

Recorded By/Date: MI 12/11/14

Reviewed By/Date: _____

12/17/14



Sediment Collection Form

Project: NPDES Sampling Support

Location ID: CB-35

Facility Name: S. Service Center station

Sample ID: SC-CB-35-20141211-S

Sampled By: MI, CW

Date: 12/11/2014 Time: 1300

Structure Type: <u>CB</u>	Dimensions: <u>standard</u> W _____ L _____	Standing Water: <input checked="" type="radio"/> Y <input type="radio"/> N	Flow: <input checked="" type="radio"/> Y <input type="radio"/> N
Conveyance System Sketch ↑N			
Depth to Bottom: <u>4.5</u> ft	Depth to Water: <u>2.5</u> ft	Depth of Sediment: <u>2</u> in	Sampled: <input checked="" type="radio"/> Y <input type="radio"/> N Discrete / <input checked="" type="radio"/> Composite (circle one)
Sediment type:	Sediment color:	Sediment Odor:	Comments:
Cobble Gravel <input checked="" type="radio"/> Sand <input checked="" type="radio"/> M <input checked="" type="radio"/> F <input type="radio"/> Silt/clay Organic matter Debris	Drab olive Brown Brown surface <input checked="" type="radio"/> Gray <input checked="" type="radio"/> Black Tan	None Slight <input checked="" type="radio"/> Moderate Strong Overwhelming H ₂ S Petroleum	Photo ID(s): _____ GPS ID: _____

NOTES: Slight sheen observed.

Recorded By/Date: MI 12/11/14

Reviewed By/Date: [Signature] 12/17/14



Sediment Collection Form

Project: NPDES Sampling Support

Location ID: CB24

Facility Name: SCL S. Service Center

Sample ID: SC-CB-24-20141211-5

Sampled By: CW/MT

Date: 12 / 11 / 2014 **Time:** 1337

Structure Type: <u>Catch Basin</u>	Dimensions: <u>W 1.5 L 2.5</u>	Standing Water: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Flow: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Conveyance System Sketch ↑ N			
Depth to Bottom: <u>4.5</u> ft	Depth to Water: <u>2</u> ft	Depth of Sediment: <u>4-6</u> in	Sampled: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Discrete/ Composite (circle one)
Sediment type: Cobble Gravel <input checked="" type="checkbox"/> Sand C M <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> Silt/clay Organic matter Debris	Sediment color: Drab olive <input checked="" type="checkbox"/> Brown <u>Dark</u> Brown surface Gray Black Tan	Sediment Odor: None <input checked="" type="checkbox"/> Slight Moderate Strong Overwhelming H ₂ S <input checked="" type="checkbox"/> Petroleum	Comments: Photo ID(s): <u>Photos Taken</u> GPS ID: <u>-</u>

NOTES: CB-24 is located on the North side of a salvage/scrap Storage yard at the facility. Stormwater was observed draining from underneath the scrap yard barriers and infiltrate entering the catch basin. The storm water contained suspended solids and appeared to have a slight sheen. Objects stored in the scrap area included cable, conduit, and uncovered scrap metal bins. The catch basin had a sediment trap that was used to prevent flowery debris from discharging from the catch basin.

Recorded By/Date: CW 12/12/14

Reviewed By/Date: [Signature] 12/17/14



Water ^{EW} 12/10/14
Sediment Collection Form

Project: NPDES Sampling Support

Location ID: MH-20

Facility Name: SCL S. Service Center

Sample ID: SC-MH-20-20141211-W

Sampled By: MJ/CW

Date: 12 / 11 / 2014 **Time:** 1500

Structure Type: <u>Manhole</u>	Dimensions: <u>3' diameter</u> W _____ L _____	Standing Water: Y/ <input checked="" type="radio"/> N	Flow: <input checked="" type="radio"/> Y/ <input type="radio"/> N
Conveyance System Sketch			↑N
Depth to Bottom: <u>5-6</u> ft	Depth to Water: <u>5</u> ft	Depth of Sediment: _____ in	Sampled: <input checked="" type="radio"/> Y/ <input type="radio"/> N Discrete <input checked="" type="radio"/> Composite (circle one)
Sediment type: Cobble Gravel Sand C M F Silt/clay Organic matter Debris <u>None</u>	Sediment color: Drab olive Brown Brown surface Gray Black Tan <u>None</u>	Sediment Odor: <u>None</u> Slight Moderate Strong Overwhelming H ₂ S Petroleum	Comments: <u>No solids collected</u> Photo ID(s): _____ GPS ID: _____

NOTES: Collected water sample at this location using a peristaltic pump + stainless steel pole for SDCS. Storm drain system contained flowing stormwater.

Recorded By/Date: CW 12/12/14

Reviewed By/Date: [Signature] 12/12/14

Attachment S-3
Chain of Custody Forms

Tacoma, WA 98424
phone 253.922.2310 fax

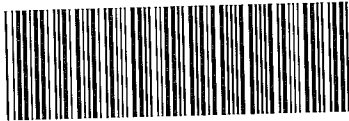
Regulatory Program: DW NPDES RCRA Other:

46690

TestAmerica Laboratories, Inc.

Client Contact Leidos 18912 N Creek Pkwy, Ste. 101 Bothell, WA 98011 425.398.2101 Phone 425.485.5566 FAX	Project Manager: Christine Nancarrow Tel/Fax: 206.300.2144	Site Contact: Melissa Ivancevich Lab Contact: Kris Allen	Date: 12/11/14 Carrier: Courier	COC No: 1 of 2 COCs
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below 3 Weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		For Lab Use Only: Walker Client: Lab Sampling: Job / SDG No.:		
Project Name: NPDES Sampling Support Site: Lower Duwamish Waterway P O # P010163427		Sample Specific Notes:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A)	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)
1- SC-OWS-05-20141211-S	12/11/14	1018	C	Sed	3											
2- SC-CB-35-20141211-S	12/11/14	1300	C	Sed	6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3- SC-CB-24-20141211-S	12/11/14	1400	C	Sed	6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



580-46690 Chain of Custody

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

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

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: <i>Melissa Ivancevich</i>	Company: <i>Leidos</i>	Date/Time: <i>12/11/14 1730</i>	Received by: <i>[Signature]</i>	Company: <i>TA0SEA</i>	Date/Time: <i>12/12/14 1201</i>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:



CHAIN OF CUSTODY

FOR LABORATORY USE ONLY Storage Secured

Laboratory Project ID: _____ Yes No

Storage ID: _____ Temp _____ °C

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

Project I.D.: _____ P.O.# _____ Sampler: M. Wank and L.R. Wilson
 (Name)

Invoice to: Name Christine Nancarrow Company Leidos Address 16912 N. Creek Pkwy, Ste 101 City Bothell, WA State WA Zip 98011 Ph# 206-300-2144 Fax# _____

Relinquished by: (Signature and Printed Name) Melissa Wankovich Date: 12/11/14 Time: 1713 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: _____

Tracking No.: _____

ATTN: _____

Add Analysis(es) Requested		Container(s)															
Quantity	Type	Matrix	2318-TCDD	2318-TCDD/TCDF	TCDD/TCDF	2318-TCDD	2318-TCDD/TCDF	TCDD/TCDF	2318-TCDD	2318-TCDD/TCDF	TCDD/TCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29
1	A	SD	✓									✓	✓				
1	A	SD	✓									✓	✓				
1	A	SD	✓									✓	✓				
4	A	EF	✓									✓	✓				

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: SAME AS ABOVE
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ 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 = MMS Train, O = Other

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

WHITE - ORIGINAL

YELLOW - ARCHIVE

PINK - COPY

Regulatory Program: DW NPDES RCRA Other:

Client Contact <i>Gary Lockwood - SCL</i>		Project Manager: Tel/Fax:		Site Contact: Lab Contact:		Date: <i>12/11/14</i> Carrier: <i>Courier</i>		COC No: of <i>2</i> COCs	
Phone <i>206 684-3293</i> FAX		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) Perform MS / MSD (Y/N) PCB Aroclors (Method 8082) SVOC (Method 8270D/8270D-SIM) TPH-Diesel (NWTPH-Dx) Metals (Method 6020/7471A) <i>299 + 325</i> Total Solids (Method SM2540B) TPH-Gasoline (NWTPH-Gx) VOCs (EPA 8260B) TOC (Plumb1981/9060) Particle Size (PSEP_Plumb1981) PEB components WH <i>Dioxins/Furans</i>		Sampler:		For Lab Use Only:	
Project Name: <i>Sw Inspection</i>		TAT if different from Below 3 Weeks				Walk-in Client:		Lab Sampling:	
Site: <i>SSC</i>		<input type="checkbox"/> 2 weeks				Job / SDG No.:			
P O #		<input type="checkbox"/> 1 week							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A) <i>299 + 325</i>	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)	PEB components WH	Dioxins/Furans	Sample Specific Notes:
<i>1 SC-OWS-05-20141211-S</i>	<i>12/11/14</i>	<i>1018</i>	<i>C</i>	<i>Sed</i>	<i>4</i>														
<i>2 SC-CB-35-20141211-S</i>	<i>12/11/14</i>	<i>1300</i>	<i>C</i>	<i>Sed</i>	<i>7</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>1</i>	<i>2</i>	<i>1</i>				
<i>3 SC-CB-24-20141211-S</i>	<i>12/11/14</i>	<i>1400</i>	<i>C</i>	<i>Sed</i>	<i>7</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>1</i>	<i>2</i>	<i>1</i>				

Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other MeOH *as marked on container*

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

Non-Hazard Flammable Skin Irritant Poison B Unknown

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

Return to Client Disposal by Lab Archive for *1+* Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Cor'd: _____	Therm ID No.:
Relinquished by: <i>Melissa Ivancov</i>	Company: <i>Leidos</i>	Date/Time: <i>12/11/14 1550</i>	Received by: <i>Gary Lockwood</i>
Relinquished by: <i>Gary Lockwood</i>	Company: <i>SCH</i>	Date/Time: <i>12/12/14</i>	Received by: <i>Melissa Ivancov</i>
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:

Attachment S-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: 580-46690-1

Client Project/Site: NPDES Sampling Support

For:

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

Attn: Christine Nancarrow

David Burk

Authorized for release by:

1/9/2015 2:52:04 PM

David Burk, Project Manager I
(253)248-4972

david.burk@testamericainc.com

Designee for

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

kristine.allen@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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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: 580-46690-1

Job ID: 580-46690-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 12/12/2014 12:01 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

Method(s) 5035: No volume for MS/MSD, only one vial provided. LCSD with the batch.

SC-CB-24-20141211-S (580-46690-3), SC-CB-35-20141211-S (580-46690-2)

Method(s) 8260B: Chlorobenzene-d5 and 1,4-dichlorobenzene Internal standard (ISTD) responses for the following sample was below control limits, indicating a high bias for analytes associated with these IS groups: SC-CB-35-20141211-S (580-46690-2). Sample matrix interference is suspected. The sample was re-extracted and re-analyzed with concurring results, and therefore the original set of data has been reported.

Method(s) 8260B: Chlorobenzene-d5, fluorobenzene, and 1,4-dichlorobenzene Internal standard (ISTD) responses for the following sample was below control limits, indicating a high bias for analytes associated with these IS groups: SC-CB-24-20141211-S (580-46690-3). Sample matrix interference is suspected. The sample was re-extracted and re-analyzed with concurring results, and therefore the original set of data has been reported.

Method(s) 8260B: Surrogate recovery for the following samples was outside control limits: SC-CB-24-20141211-S (580-46690-3). Evidence of matrix interference is present and was confirmed by re-analysis; therefore the data has been reported.

Method(s) NWTPH-Gx: The method blank for batch 178406 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA

Method(s) 8270C, 8270D: The continuing calibration verification (CCV) associated with batch 178265 recovered above the upper control limit for 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 580-178265/3).

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: (580-46690-1 MS), (580-46690-1 MSD), SC-CB-24-20141211-S (580-46690-3), SC-CB-35-20141211-S (580-46690-2), SC-OWS-05-20141211-S (580-46690-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 178585 recovered outside relative response factor (RRF) acceptance criteria, low biased, for Nitrobenzene, Isophorone, Bis(2-chlorethoxy)methane and 2,4-Dimethylphenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: 4-Chloroaniline recovered below control limits for the LCS and LCSD associated with batch 178277. This random marginal exceedance is not indicative of a systemic control problem; qualified results have been reported.

Method(s) 8270D: Surrogate recovery for the following samples was outside control limits: (580-46690-1 MS), SC-CB-24-20141211-S (580-46690-3), SC-OWS-05-20141211-S (580-46690-1). Chromatographic evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C, 8270D: The method blank for preparation batch 178110 contained Di-n-butylphthalate above the reporting limit (RL), and Bis(2-ethylhexyl)phthalate and Butylbenzyl phthalate above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8270C, 8270D: The following analytes recovered outside control limits for the LCS and/or LCSD associated with batch 178110: Bis(2-ethylhexyl)phthalate (high in LCS), 4-Chloroaniline (low in both LCS and LCSD) and 3,3'-Dichlorobenzidine (low in LCS). This is not indicative of a systematic control problem because these were random marginal exceedances. The lab SOP allows four marginal

Case Narrative

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

TestAmerica Job ID: 580-46690-1

Job ID: 580-46690-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

exceedances when a full list spike is evaluated for this method; qualified results have been reported.

Method(s) 8270C, 8270D: The continuing calibration verification (CCV) associated with batch 178374 recovered above the upper control limit for 2,4,6-Trichlorophenol, Benzoic Acid, 2,4,5-Trichlorophenol, 4-Chloro-3-methylphenol, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted (unaffected by high bias): (CCVIS 580-178374/3), (CCVL 580-178374/4), SC-MH-20-20141211-W (580-46690-4).

Method(s) 8270C, 8270D: The continuing calibration verification (CCV) associated with batch 178374 recovered outside relative response factor (RRF) acceptance criteria, low biased, for Nitrobenzene, Isophorone, Bis(2-chloroethoxy)methane, N-Nitroso di-n-propylamine, Hexachlorocyclopentadiene, 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270C, 8270D: The following samples were diluted due to the nature of the sample matrix: SC-MH-20-20141211-W (580-46690-4). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method(s) 8082: In batch 178554, the dual column RPD for Decachlorobiphenyl recoveries were >40% for samples (580-46690-2 MS), (580-46690-2 MSD), SC-CB-35-20141211-S (580-46690-2), SC-OWS-05-20141211-S (580-46690-1) and the lower values were reported. There is indication of matrix interference from the chromatogram and similar MS/MSD recoveries.

Method(s) 8082: In batch 178554, the dual column RPD for PCB-1248 recovery was >40% for sample SC-CB-24-20141211-S (580-46690-3) and the upper values were reported.

Method(s) NWTPH-Dx: In analysis batch 178242, the following sample(s) from preparation batch 178227: The sample duplicate (DUP) precision for Motor Oil (>C24-C36) was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) NWTPH-Dx: In analysis batch 178242, for the following sample(s) from preparation batch 178188: The following sample(s) contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: SC-CB-24-20141211-S (580-46690-3), SC-CB-35-20141211-S (580-46690-2), SC-OWS-05-20141211-S (580-46690-1).

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

Metals

Method(s) 200.8: The method blank for batch 178763 contained Cd above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 245.1: The method blank for batch 178190 contained Hg 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.

General Chemistry

Method(s) 300.0: The following sample was run out of hold: SC-MH-20-20141211-W (580-46690-4). It was received after the analyst concluded their shift Friday and run the following Monday.

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

Geotechnical

Case Narrative

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

TestAmerica Job ID: 580-46690-1

Job ID: 580-46690-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

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

Organic Prep

Method(s) 3546: In preparation batch 178188, the following samples contained oraganic matter and were very wet:

(580-46690-3 MS), (580-46690-3 MSD), SC-CB-24-20141211-S (580-46690-3), SC-CB-35-20141211-S (580-46690-2), SC-OWS-05-20141211-S (580-46690-1)

Method(s) 3550B: In prep batch 178279, (580-46690-2 MS), (580-46690-2 MSD), SC-CB-24-20141211-S (580-46690-3), SC-CB-35-20141211-S (580-46690-2), SC-OWS-05-20141211-S (580-46690-1) emulsified heavily during concentration by water bath.

Method(s) 3550B: In prep batch 178277, (580-46690-1 MS), (580-46690-1 MSD), SC-CB-24-20141211-S (580-46690-3), SC-CB-35-20141211-S (580-46690-2), SC-OWS-05-20141211-S (580-46690-1) emulsified heavily during concentration by water bath.

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: 580-46690-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery exceeds the control limits
P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported
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.

Metals

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

General Chemistry

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

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

TestAmerica Seattle

Definitions/Glossary

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

TestAmerica Job ID: 580-46690-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 580-46690-1

Client Sample ID: SC-OWS-05-20141211-S

Lab Sample ID: 580-46690-1

Date Collected: 12/11/14 10:18

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 30.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1600	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
1,2-Dichlorobenzene	ND		1800	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
1,3-Dichlorobenzene	ND		1600	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
1,4-Dichlorobenzene	ND		1600	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
1-Methylnaphthalene	ND		970	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,2'-oxybis[1-chloropropane]	ND		8100	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,4,5-Trichlorophenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,4,6-Trichlorophenol	ND		4900	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,4-Dichlorophenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,4-Dimethylphenol	ND	^	3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,4-Dinitrophenol	ND		32000	6500	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,4-Dinitrotoluene	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2,6-Dinitrotoluene	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2-Chloronaphthalene	ND		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2-Chlorophenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2-Methylnaphthalene	170	J	650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2-Methylphenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2-Nitroaniline	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
2-Nitrophenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
3 & 4 Methylphenol	1100	J	6500	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
3,3'-Dichlorobenzidine	ND		6500	970	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
3-Nitroaniline	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4,6-Dinitro-2-methylphenol	ND		32000	3200	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4-Bromophenyl phenyl ether	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4-Chloro-3-methylphenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4-Chloroaniline	ND	*	3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4-Chlorophenyl phenyl ether	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4-Nitroaniline	ND		3200	650	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
4-Nitrophenol	ND		32000	8100	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Acenaphthene	270	J	650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Acenaphthylene	170	J	650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Anthracene	820		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzo[a]anthracene	2300		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzo[a]pyrene	2800		970	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzo[b]fluoranthene	5600		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzo[g,h,i]perylene	2000		810	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzo[k]fluoranthene	1400		810	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzoic acid	ND		81000	24000	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Benzyl alcohol	1400	J	3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Bis(2-chloroethoxy)methane	ND	^	3200	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Bis(2-chloroethyl)ether	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Bis(2-ethylhexyl) phthalate	120000		19000	1600	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Butyl benzyl phthalate	6100	J	6500	1600	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Carbazole	550	J	3200	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Chrysene	5400		810	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Dibenz(a,h)anthracene	500	J	1300	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Dibenzofuran	230	J	3200	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Diethyl phthalate	ND		6500	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Dimethyl phthalate	420	J	3200	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-OWS-05-20141211-S

Lab Sample ID: 580-46690-1

Date Collected: 12/11/14 10:18

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 30.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		16000	1600	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Di-n-octyl phthalate	5300	J	16000	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Fluoranthene	7100		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Fluorene	460	J	650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Hexachlorobenzene	ND		1600	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Hexachlorobutadiene	ND		1600	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Hexachlorocyclopentadiene	ND		3200	320	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Hexachloroethane	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Indeno[1,2,3-cd]pyrene	1900		1300	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Isophorone	ND	^	3200	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Naphthalene	210	J	650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Nitrobenzene	ND	^	3200	1100	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
N-Nitrosodimethylamine	ND		32000	8100	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
N-Nitrosodi-n-propylamine	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
N-Nitrosodiphenylamine	ND		1600	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Pentachlorophenol	9500		6500	650	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Phenanthrene	4200		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Phenol	ND		3200	490	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100
Pyrene	7200		650	160	ug/Kg	☼	12/18/14 16:00	12/19/14 16:49	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	144	X	28 - 143	12/18/14 16:00	12/19/14 16:49	100
2-Fluorobiphenyl	104		42 - 140	12/18/14 16:00	12/19/14 16:49	100
2-Fluorophenol	78		36 - 145	12/18/14 16:00	12/19/14 16:49	100
Nitrobenzene-d5	90		38 - 141	12/18/14 16:00	12/19/14 16:49	100
Phenol-d5	100		38 - 149	12/18/14 16:00	12/19/14 16:49	100
Terphenyl-d14	127		42 - 151	12/18/14 16:00	12/19/14 16:49	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.032	0.010	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1
Arochlor 1221	ND		0.036	0.026	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1
Arochlor 1232	ND		0.036	0.023	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1
Arochlor 1242	ND		0.032	0.0068	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1
Arochlor 1248	1.6		0.032	0.0097	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1
Arochlor 1254	ND		0.032	0.0068	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1
Arochlor 1260	1.9		0.032	0.0097	mg/Kg	☼	12/18/14 13:20	01/06/15 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		45 - 135	12/18/14 13:20	01/06/15 14:57	1
DCB Decachlorobiphenyl	67	p	50 - 140	12/18/14 13:20	01/06/15 14:57	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)	5900	Y	82	19	mg/Kg	☼	12/15/14 13:03	12/16/14 13:00	1
Motor Oil (>C24-C36)	15000	Y	160	30	mg/Kg	☼	12/15/14 13:03	12/16/14 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 150	12/15/14 13:03	12/16/14 13:00	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-OWS-05-20141211-S

Lab Sample ID: 580-46690-1

Date Collected: 12/11/14 10:18

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 30.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.4	0.51	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Lead	430		0.57	0.037	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Antimony	9.4		0.57	0.12	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Beryllium	0.23	J	0.57	0.10	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Cadmium	5.5		0.57	0.023	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Chromium	66		0.57	0.32	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Copper	740		1.1	0.28	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Nickel	46		1.4	0.23	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Selenium	1.1	J	2.0	0.58	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Silver	1.3		0.57	0.034	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Thallium	ND		1.4	0.37	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10
Zinc	2000		5.7	3.2	mg/Kg	☼	01/06/15 11:06	01/07/15 15:03	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.1		0.051	0.016	mg/Kg	☼	12/15/14 16:10	12/16/14 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	30		0.10	0.10	%			12/16/14 09:54	1
Total Organic Carbon	210000		2000	250	mg/Kg			12/22/14 08:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			12/18/14 18:36	1
Gravel	3.5				%			12/18/14 18:36	1
Sand	26				%			12/18/14 18:36	1
Silt	69				%			12/18/14 18:36	1
Clay	1.8				%			12/18/14 18:36	1

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-35-20141211-S

Lab Sample ID: 580-46690-2

Date Collected: 12/11/14 13:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 53.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1,1-Trichloroethane	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1,2,2-Tetrachloroethane	ND	*	2.8	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1,2-Trichloroethane	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1-Dichloroethane	ND		1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1-Dichloroethene	ND		7.1	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,1-Dichloropropene	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2,3-Trichlorobenzene	ND	*	2.8	0.85	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2,3-Trichloropropane	ND	*	1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2,4-Trichlorobenzene	ND	*	2.8	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2,4-Trimethylbenzene	7.5	*	2.8	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2-Dibromo-3-Chloropropane	ND	*	2.8	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2-Dibromoethane	ND	*	1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2-Dichlorobenzene	ND	*	2.8	0.85	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2-Dichloroethane	ND		1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,2-Dichloropropane	ND		1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,3,5-Trimethylbenzene	5.1	J *	7.1	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,3-Dichlorobenzene	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,3-Dichloropropane	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
1,4-Dichlorobenzene	ND	*	1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
2,2-Dichloropropane	ND		7.1	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
2-Butanone	45		14	4.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
2-Chloroethyl vinyl ether	ND	*	7.1	2.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
2-Chlorotoluene	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
2-Hexanone	2.4	J *	7.1	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
4-Chlorotoluene	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
4-Isopropyltoluene	4.3	*	2.8	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
4-Methyl-2-pentanone	4.2	J *	7.1	2.1	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Acetone	190		21	3.4	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Acrolein	ND		43	12	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Acrylonitrile	ND		14	4.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Benzene	0.84	J	1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Bromobenzene	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Bromochloromethane	ND		2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Bromodichloromethane	ND		1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Bromoform	ND	*	1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Bromomethane	ND		1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Carbon disulfide	4.8		1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Carbon tetrachloride	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Chlorobenzene	ND	*	1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Chlorodibromomethane	ND	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Chloroethane	ND		1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Chloroform	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Chloromethane	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
cis-1,2-Dichloroethene	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
cis-1,3-Dichloropropene	ND	*	1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Dibromomethane	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Dichlorodifluoromethane	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-35-20141211-S

Lab Sample ID: 580-46690-2

Date Collected: 12/11/14 13:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 53.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	11	*	1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Hexachloro-1,3-butadiene	ND	*	2.8	0.85	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Iodomethane	ND		21	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Isopropylbenzene	0.94	J *	2.8	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Methyl tert-butyl ether	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Methylene Chloride	ND		21	4.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
m-Xylene & p-Xylene	39	*	2.8	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Naphthalene	8.1	*	7.1	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
n-Butylbenzene	ND	*	2.8	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
N-Propylbenzene	1.3	J *	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
o-Xylene	19	*	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
sec-Butylbenzene	1.1	J *	2.8	0.71	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Styrene	2.1	J *	2.8	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
tert-Butylbenzene	ND	*	2.8	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Tetrachloroethene	ND	*	1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Toluene	17	*	2.8	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
trans-1,2-Dichloroethene	ND		1.4	0.57	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
trans-1,3-Dichloropropene	ND	*	1.4	0.28	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
trans-1,4-Dichloro-2-butene	ND	*	7.1	2.4	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Trichloroethene	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Trichlorofluoromethane	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Vinyl acetate	ND		7.1	0.85	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1
Vinyl chloride	ND		1.4	0.43	ug/Kg	☼	12/12/14 14:25	12/16/14 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		71 - 136	12/12/14 14:25	12/16/14 15:02	1
4-Bromofluorobenzene (Surr)	152	* X	70 - 120	12/12/14 14:25	12/16/14 15:02	1
Dibromofluoromethane (Surr)	109		75 - 132	12/12/14 14:25	12/16/14 15:02	1
Toluene-d8 (Surr)	129	* X	80 - 120	12/12/14 14:25	12/16/14 15:02	1
Trifluorotoluene (Surr)	75		65 - 140	12/12/14 14:25	12/16/14 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		920	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
1,2-Dichlorobenzene	ND		1000	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
1,3-Dichlorobenzene	ND		920	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
1,4-Dichlorobenzene	ND		920	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
1-Methylnaphthalene	280	J	550	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,2'-oxybis[1-chloropropane]	ND		4600	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,4,5-Trichlorophenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,4,6-Trichlorophenol	ND		2800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,4-Dichlorophenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,4-Dimethylphenol	ND	^	1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,4-Dinitrophenol	ND		18000	3700	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,4-Dinitrotoluene	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2,6-Dinitrotoluene	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2-Chloronaphthalene	ND		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2-Chlorophenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2-Methylnaphthalene	360	J	370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2-Methylphenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-35-20141211-S

Lab Sample ID: 580-46690-2

Date Collected: 12/11/14 13:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 53.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
2-Nitrophenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
3 & 4 Methylphenol	400	J	3700	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
3,3'-Dichlorobenzidine	ND		3700	550	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
3-Nitroaniline	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4,6-Dinitro-2-methylphenol	ND		18000	1800	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4-Bromophenyl phenyl ether	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4-Chloro-3-methylphenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4-Chloroaniline	ND	*	1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4-Chlorophenyl phenyl ether	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4-Nitroaniline	ND		1800	370	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
4-Nitrophenol	ND		18000	4600	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Acenaphthene	250	J	370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Acenaphthylene	ND		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Anthracene	ND		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzo[a]anthracene	1200		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzo[a]pyrene	1400		550	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzo[b]fluoranthene	2500		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzo[g,h,i]perylene	880		460	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzo[k]fluoranthene	970		460	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzoic acid	ND		46000	14000	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Benzyl alcohol	46000		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Bis(2-chloroethoxy)methane	ND	^	1800	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Bis(2-chloroethyl)ether	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Bis(2-ethylhexyl) phthalate	87000		11000	920	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Butyl benzyl phthalate	6000		3700	920	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Carbazole	ND		1800	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Chrysene	2200		460	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Dibenz(a,h)anthracene	ND		740	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Dibenzofuran	140	J	1800	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Diethyl phthalate	ND		3700	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Dimethyl phthalate	180	J	1800	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Di-n-butyl phthalate	1900	J	9200	920	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Di-n-octyl phthalate	4900	J	9200	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Fluoranthene	2700		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Fluorene	260	J	370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Hexachlorobenzene	ND		920	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Hexachlorobutadiene	ND		920	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Hexachlorocyclopentadiene	ND		1800	180	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Hexachloroethane	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Indeno[1,2,3-cd]pyrene	790		740	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Isophorone	110	J ^	1800	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Naphthalene	290	J	370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Nitrobenzene	ND	^	1800	630	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
N-Nitrosodimethylamine	ND		18000	4600	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
N-Nitrosodi-n-propylamine	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
N-Nitrosodiphenylamine	ND		920	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Pentachlorophenol	8100		3700	370	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Phenanthrene	2100		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-35-20141211-S

Lab Sample ID: 580-46690-2

Date Collected: 12/11/14 13:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 53.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1800	280	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Pyrene	2800		370	92	ug/Kg	☼	12/18/14 16:00	12/19/14 19:20	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		28 - 143				12/18/14 16:00	12/19/14 19:20	100
2-Fluorobiphenyl	90		42 - 140				12/18/14 16:00	12/19/14 19:20	100
2-Fluorophenol	91		36 - 145				12/18/14 16:00	12/19/14 19:20	100
Nitrobenzene-d5	83		38 - 141				12/18/14 16:00	12/19/14 19:20	100
Phenol-d5	96		38 - 149				12/18/14 16:00	12/19/14 19:20	100
Terphenyl-d14	121		42 - 151				12/18/14 16:00	12/19/14 19:20	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	11	J B	12	1.5	mg/Kg	☼	12/17/14 12:03	12/17/14 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150				12/17/14 12:03	12/17/14 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.018	0.0057	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Arochlor 1221	ND		0.020	0.014	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Arochlor 1232	ND		0.020	0.012	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Arochlor 1242	ND		0.018	0.0037	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Arochlor 1248	0.13		0.018	0.0053	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Arochlor 1254	ND		0.018	0.0037	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Arochlor 1260	0.39		0.018	0.0053	mg/Kg	☼	12/18/14 13:20	01/06/15 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		45 - 135				12/18/14 13:20	01/06/15 15:14	1
DCB Decachlorobiphenyl	71	p	50 - 140				12/18/14 13:20	01/06/15 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	4300	Y	44	10	mg/Kg	☼	12/15/14 13:03	12/16/14 13:38	1
Motor Oil (>C24-C36)	5800	Y	89	16	mg/Kg	☼	12/15/14 13:03	12/16/14 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150				12/15/14 13:03	12/16/14 13:38	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		0.81	0.29	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Lead	250		0.32	0.021	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Antimony	8.2		0.32	0.068	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Beryllium	0.22	J	0.32	0.057	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Cadmium	4.3		0.32	0.013	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Chromium	130		0.32	0.18	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Copper	990		0.65	0.16	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Nickel	110		0.81	0.13	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Selenium	1.1		1.1	0.33	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-35-20141211-S

Lab Sample ID: 580-46690-2

Date Collected: 12/11/14 13:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 53.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.2		0.32	0.019	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Thallium	ND		0.81	0.21	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10
Zinc	2700		3.2	1.8	mg/Kg	☼	01/06/15 11:06	01/07/15 15:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.029	0.0092	mg/Kg	☼	12/15/14 16:10	12/16/14 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	54		0.10	0.10	%			12/16/14 09:54	1
Total Organic Carbon	84000		2000	250	mg/Kg			12/20/14 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			12/18/14 18:36	1
Gravel	0.29				%			12/18/14 18:36	1
Sand	59				%			12/18/14 18:36	1
Silt	39				%			12/18/14 18:36	1
Clay	1.5				%			12/18/14 18:36	1

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-24-20141211-S

Lab Sample ID: 580-46690-3

Date Collected: 12/11/14 14:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1,1-Trichloroethane	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1,2,2-Tetrachloroethane	ND	*	5.2	2.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1,2-Trichloroethane	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1-Dichloroethane	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1-Dichloroethene	ND	*	13	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,1-Dichloropropene	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2,3-Trichlorobenzene	ND	*	5.2	1.5	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2,3-Trichloropropane	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2,4-Trichlorobenzene	ND	*	5.2	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2,4-Trimethylbenzene	12	*	5.2	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2-Dibromo-3-Chloropropane	ND	*	5.2	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2-Dibromoethane	ND	*	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2-Dichlorobenzene	ND	*	5.2	1.5	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2-Dichloroethane	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,2-Dichloropropane	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,3,5-Trimethylbenzene	7.8	J *	13	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,3-Dichlorobenzene	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,3-Dichloropropane	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
1,4-Dichlorobenzene	ND	*	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
2,2-Dichloropropane	ND	*	13	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
2-Butanone	ND	*	26	7.7	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
2-Chloroethyl vinyl ether	ND	*	13	3.6	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
2-Chlorotoluene	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
2-Hexanone	ND	*	13	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
4-Chlorotoluene	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
4-Isopropyltoluene	25	*	5.2	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
4-Methyl-2-pentanone	22	*	13	3.9	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Acetone	540	*	39	6.2	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Acrolein	ND	*	77	21	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Acrylonitrile	ND	*	26	7.2	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Benzene	3.0	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Bromobenzene	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Bromochloromethane	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Bromodichloromethane	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Bromoform	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Bromomethane	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Carbon disulfide	2.2	J *	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Carbon tetrachloride	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Chlorobenzene	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Chlorodibromomethane	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Chloroethane	ND	*	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Chloroform	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Chloromethane	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
cis-1,2-Dichloroethene	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
cis-1,3-Dichloropropene	ND	*	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Dibromomethane	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Dichlorodifluoromethane	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-24-20141211-S

Lab Sample ID: 580-46690-3

Date Collected: 12/11/14 14:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	14	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Hexachloro-1,3-butadiene	ND	*	5.2	1.5	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Iodomethane	ND	*	39	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Isopropylbenzene	50	*	5.2	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Methyl tert-butyl ether	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Methylene Chloride	ND	*	39	7.7	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
m-Xylene & p-Xylene	43	*	5.2	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Naphthalene	9.0	J*	13	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
n-Butylbenzene	ND	*	5.2	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
N-Propylbenzene	ND	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
o-Xylene	29	*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
sec-Butylbenzene	3.4	J*	5.2	1.3	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Styrene	1.1	J*	5.2	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
tert-Butylbenzene	1.2	J*	5.2	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Tetrachloroethene	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Toluene	26	*	5.2	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
trans-1,2-Dichloroethene	ND	*	2.6	1.0	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
trans-1,3-Dichloropropene	ND	*	2.6	0.52	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
trans-1,4-Dichloro-2-butene	ND	*	13	4.4	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Trichloroethene	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Trichlorofluoromethane	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Vinyl acetate	ND	*	13	1.5	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1
Vinyl chloride	ND	*	2.6	0.77	ug/Kg	☼	12/12/14 14:25	12/16/14 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132	*	71 - 136	12/12/14 14:25	12/16/14 15:29	1
4-Bromofluorobenzene (Surr)	143	*X	70 - 120	12/12/14 14:25	12/16/14 15:29	1
Dibromofluoromethane (Surr)	120	*	75 - 132	12/12/14 14:25	12/16/14 15:29	1
Toluene-d8 (Surr)	131	*X	80 - 120	12/12/14 14:25	12/16/14 15:29	1
Trifluorotoluene (Surr)	72	*	65 - 140	12/12/14 14:25	12/16/14 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
1,2-Dichlorobenzene	ND		1200	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
1,3-Dichlorobenzene	ND		1100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
1,4-Dichlorobenzene	ND		1100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
1-Methylnaphthalene	110	J	640	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,2'-oxybis[1-chloropropane]	ND		5300	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,4,5-Trichlorophenol	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,4,6-Trichlorophenol	ND		3200	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,4-Dichlorophenol	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,4-Dimethylphenol	ND	^	2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,4-Dinitrophenol	ND		21000	4200	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,4-Dinitrotoluene	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2,6-Dinitrotoluene	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2-Chloronaphthalene	ND		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2-Chlorophenol	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2-Methylnaphthalene	110	J	420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2-Methylphenol	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-24-20141211-S

Lab Sample ID: 580-46690-3

Date Collected: 12/11/14 14:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
2-Nitrophenol	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
3 & 4 Methylphenol	ND		4200	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
3,3'-Dichlorobenzidine	ND		4200	640	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
3-Nitroaniline	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4,6-Dinitro-2-methylphenol	ND		21000	2100	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4-Bromophenyl phenyl ether	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4-Chloro-3-methylphenol	700	J	2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4-Chloroaniline	ND	*	2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4-Chlorophenyl phenyl ether	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4-Nitroaniline	ND		2100	420	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
4-Nitrophenol	ND		21000	5300	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Acenaphthene	190	J	420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Acenaphthylene	ND		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Anthracene	490		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzo[a]anthracene	1600		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzo[a]pyrene	1500		640	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzo[b]fluoranthene	2800		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzo[g,h,i]perylene	850		530	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzo[k]fluoranthene	900		530	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzoic acid	ND		53000	16000	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Benzyl alcohol	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Bis(2-chloroethoxy)methane	ND	^	2100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Bis(2-chloroethyl)ether	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Bis(2-ethylhexyl) phthalate	64000		13000	1100	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Butyl benzyl phthalate	ND		4200	1100	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Carbazole	400	J	2100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Chrysene	3400		530	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Dibenz(a,h)anthracene	ND		850	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Dibenzofuran	110	J	2100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Diethyl phthalate	ND		4200	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Dimethyl phthalate	1200	J	2100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Di-n-butyl phthalate	35000		11000	1100	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Di-n-octyl phthalate	4600	J	11000	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Fluoranthene	4000		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Fluorene	ND		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Hexachlorobenzene	ND		1100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Hexachlorobutadiene	ND		1100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Hexachlorocyclopentadiene	ND		2100	210	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Hexachloroethane	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Indeno[1,2,3-cd]pyrene	680	J	850	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Isophorone	ND	^	2100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Naphthalene	120	J	420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Nitrobenzene	ND	^	2100	720	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
N-Nitrosodimethylamine	ND		21000	5300	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
N-Nitrosodi-n-propylamine	ND		2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
N-Nitrosodiphenylamine	160	J	1100	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Pentachlorophenol	1800	J	4200	420	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Phenanthrene	2700		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-24-20141211-S

Lab Sample ID: 580-46690-3

Date Collected: 12/11/14 14:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	520	J	2100	320	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Pyrene	4300		420	110	ug/Kg	☼	12/18/14 16:00	12/19/14 20:11	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	168	X	28 - 143				12/18/14 16:00	12/19/14 20:11	100
2-Fluorobiphenyl	66		42 - 140				12/18/14 16:00	12/19/14 20:11	100
2-Fluorophenol	79		36 - 145				12/18/14 16:00	12/19/14 20:11	100
Nitrobenzene-d5	91		38 - 141				12/18/14 16:00	12/19/14 20:11	100
Phenol-d5	97		38 - 149				12/18/14 16:00	12/19/14 20:11	100
Terphenyl-d14	129		42 - 151				12/18/14 16:00	12/19/14 20:11	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	31	B	22	2.8	mg/Kg	☼	12/17/14 12:03	12/17/14 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150				12/17/14 12:03	12/17/14 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.020	0.0065	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Arochlor 1221	ND		0.022	0.016	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Arochlor 1232	ND		0.022	0.014	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Arochlor 1242	ND		0.020	0.0043	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Arochlor 1248	0.18	P	0.020	0.0061	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Arochlor 1254	ND		0.020	0.0043	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Arochlor 1260	0.39		0.020	0.0061	mg/Kg	☼	12/18/14 13:20	01/06/15 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		45 - 135				12/18/14 13:20	01/06/15 16:03	1
DCB Decachlorobiphenyl	61		50 - 140				12/18/14 13:20	01/06/15 16:03	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)	1700	Y	50	11	mg/Kg	☼	12/15/14 13:03	12/16/14 13:57	1
Motor Oil (>C24-C36)	8900	Y	100	18	mg/Kg	☼	12/15/14 13:03	12/16/14 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				12/15/14 13:03	12/16/14 13:57	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		0.97	0.35	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Lead	490		0.39	0.025	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Antimony	9.4		0.39	0.081	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Beryllium	0.22	J	0.39	0.068	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Cadmium	3.3		0.39	0.015	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Chromium	62		0.39	0.22	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Copper	2500		0.77	0.19	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Nickel	47		0.97	0.16	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Selenium	1.0	J	1.4	0.39	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-24-20141211-S

Lab Sample ID: 580-46690-3

Date Collected: 12/11/14 14:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 47.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.56		0.39	0.023	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Thallium	ND		0.97	0.25	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10
Zinc	1600		3.9	2.2	mg/Kg	☼	01/06/15 11:06	01/07/15 15:32	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.032	0.010	mg/Kg	☼	12/15/14 16:10	12/16/14 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	47		0.10	0.10	%			12/16/14 09:54	1
Total Organic Carbon	140000		2000	250	mg/Kg			12/20/14 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			12/18/14 18:36	1
Gravel	0.85				%			12/18/14 18:36	1
Sand	45				%			12/18/14 18:36	1
Silt	53				%			12/18/14 18:36	1
Clay	1.5				%			12/18/14 18:36	1

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-MH-20-20141211-W

Lab Sample ID: 580-46690-4

Date Collected: 12/11/14 15:00

Matrix: Water

Date Received: 12/12/14 12:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
1,2-Dichlorobenzene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
1,3-Dichlorobenzene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
1,4-Dichlorobenzene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
1-Methylnaphthalene	ND		0.57	0.29	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,2'-oxybis[1-chloropropane]	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,4,5-Trichlorophenol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,4,6-Trichlorophenol	ND		5.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,4-Dichlorophenol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,4-Dimethylphenol	ND		19	2.9	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,4-Dinitrophenol	ND		48	9.6	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,4-Dinitrotoluene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,6-Dinitrotoluene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2-Chloronaphthalene	ND		0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
2-Chlorophenol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2-Methylnaphthalene	ND		1.9	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
2-Methylphenol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2-Nitroaniline	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
2-Nitrophenol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
3 & 4 Methylphenol	ND		7.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
3,3'-Dichlorobenzidine	ND	*	19	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
3-Nitroaniline	ND	*	3.8	1.1	ug/L		12/13/14 11:42	12/17/14 22:40	10
4,6-Dinitro-2-methylphenol	ND		38	9.6	ug/L		12/13/14 11:42	12/17/14 22:40	10
4-Bromophenyl phenyl ether	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
4-Chloro-3-methylphenol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
4-Chloroaniline	ND	*	3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
4-Chlorophenyl phenyl ether	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
4-Nitroaniline	ND		5.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
4-Nitrophenol	ND		29	9.6	ug/L		12/13/14 11:42	12/17/14 22:40	10
Acenaphthene	ND		0.96	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Acenaphthylene	ND		0.77	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Anthracene	ND		0.38	0.096	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzo[a]anthracene	ND		0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzo[a]pyrene	0.23	J	0.38	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzo[b]fluoranthene	ND		0.77	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzo[g,h,i]perylene	0.24	J	0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzo[k]fluoranthene	ND		0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzoic acid	ND		29	5.7	ug/L		12/13/14 11:42	12/17/14 22:40	10
Benzyl alcohol	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Bis(2-chloroethoxy)methane	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Bis(2-chloroethyl)ether	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Bis(2-ethylhexyl) phthalate	ND	*	29	11	ug/L		12/13/14 11:42	12/17/14 22:40	10
Butyl benzyl phthalate	ND	*	5.7	1.9	ug/L		12/13/14 11:42	12/17/14 22:40	10
Carbazole	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Chrysene	ND		0.38	0.12	ug/L		12/13/14 11:42	12/17/14 22:40	10
Dibenz(a,h)anthracene	0.23	J	0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Dibenzofuran	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Diethyl phthalate	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Dimethyl phthalate	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-MH-20-20141211-W

Lab Sample ID: 580-46690-4

Date Collected: 12/11/14 15:00

Matrix: Water

Date Received: 12/12/14 12:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		3.8	1.2	ug/L		12/13/14 11:42	12/17/14 22:40	10
Di-n-octyl phthalate	ND		3.8	1.7	ug/L		12/13/14 11:42	12/17/14 22:40	10
Fluoranthene	0.23	J	0.48	0.12	ug/L		12/13/14 11:42	12/17/14 22:40	10
Fluorene	ND		0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Hexachlorobenzene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Hexachlorobutadiene	ND		5.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Hexachlorocyclopentadiene	ND		19	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Hexachloroethane	ND		5.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Indeno[1,2,3-cd]pyrene	ND		0.57	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Isophorone	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Naphthalene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Nitrobenzene	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
N-Nitrosodimethylamine	ND		19	1.9	ug/L		12/13/14 11:42	12/17/14 22:40	10
N-Nitrosodi-n-propylamine	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
N-Nitrosodiphenylamine	ND		3.8	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Pentachlorophenol	4.5	J	6.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Phenanthrene	ND		0.77	0.19	ug/L		12/13/14 11:42	12/17/14 22:40	10
Phenol	ND		5.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10
Pyrene	0.33	J	0.57	0.12	ug/L		12/13/14 11:42	12/17/14 22:40	10
2,3,4,6-Tetrachlorophenol	ND		6.7	0.96	ug/L		12/13/14 11:42	12/17/14 22:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		44 - 125	12/13/14 11:42	12/17/14 22:40	10
2-Fluorobiphenyl	61		50 - 120	12/13/14 11:42	12/17/14 22:40	10
2-Fluorophenol	59		30 - 134	12/13/14 11:42	12/17/14 22:40	10
Nitrobenzene-d5	76		59 - 120	12/13/14 11:42	12/17/14 22:40	10
Phenol-d5	60		52 - 120	12/13/14 11:42	12/17/14 22:40	10
Terphenyl-d14	95		64 - 150	12/13/14 11:42	12/17/14 22:40	10

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		12/22/14 14:22	12/23/14 14:44	1
Antimony	0.00059		0.00040	0.000080	mg/L		12/22/14 14:22	12/23/14 14:44	1
Beryllium	ND		0.00040	0.00010	mg/L		12/22/14 14:22	12/23/14 14:44	1
Cadmium	0.00040	B	0.00040	0.000028	mg/L		12/22/14 14:22	12/23/14 14:44	1
Chromium	0.0012		0.00040	0.00027	mg/L		12/22/14 14:22	12/23/14 14:44	1
Copper	0.065		0.0010	0.00011	mg/L		12/22/14 14:22	12/23/14 14:44	1
Lead	0.013		0.00040	0.000034	mg/L		12/22/14 14:22	12/23/14 14:44	1
Nickel	0.0014	J	0.0030	0.00040	mg/L		12/22/14 14:22	12/23/14 14:44	1
Selenium	ND		0.0010	0.00071	mg/L		12/22/14 14:22	12/23/14 14:44	1
Silver	0.000034	J	0.00040	0.000030	mg/L		12/22/14 14:22	12/23/14 14:44	1
Thallium	ND		0.0010	0.00028	mg/L		12/22/14 14:22	12/23/14 14:44	1
Zinc	0.22		0.0040	0.0019	mg/L		12/22/14 14:22	12/23/14 14:44	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000045	J B	0.00020	0.000041	mg/L		12/15/14 13:16	12/15/14 16:33	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-MH-20-20141211-W

Lab Sample ID: 580-46690-4

Date Collected: 12/11/14 15:00

Matrix: Water

Date Received: 12/12/14 12:01

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	14		10	10	umhos/cm			12/23/14 20:10	1
Chloride	0.66	J	0.90	0.30	mg/L			12/15/14 13:41	1
Nitrate as N	ND	H	0.90	0.20	mg/L			12/15/14 13:41	1
Sulfate	0.87	J	1.2	0.40	mg/L			12/15/14 13:41	1
Alkalinity	5.3		5.0	5.0	mg/L			12/16/14 09:26	1
Bicarbonate Alkalinity as CaCO3	5.3		5.0	5.0	mg/L			12/16/14 09:26	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			12/16/14 09:26	1
Total Suspended Solids	14		6.7	6.7	mg/L			12/18/14 19:09	1
pH	6.61	HF	0.0100	0.0100	SU			12/15/14 19:35	1
Total Organic Carbon	3.5		1.0	0.33	mg/L			12/21/14 10:07	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	2.9		1.0	0.33	mg/L			12/21/14 10:07	1

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178282/1-A

Matrix: Solid

Analysis Batch: 178291

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 178282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.90	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1,2-Trichloroethane	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1-Dichloroethane	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1-Dichloroethene	ND		5.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,1-Dichloropropene	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2,3-Trichlorobenzene	ND		2.0	0.60	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2,4-Trichlorobenzene	ND		2.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2,4-Trimethylbenzene	ND		2.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2-Dibromoethane	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2-Dichlorobenzene	ND		2.0	0.60	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2-Dichloroethane	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,2-Dichloropropane	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,3-Dichloropropane	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
2,2-Dichloropropane	ND		5.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
2-Butanone	ND		10	3.0	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
2-Chloroethyl vinyl ether	ND		5.0	1.4	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
2-Chlorotoluene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
2-Hexanone	ND		5.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
4-Chlorotoluene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
4-Isopropyltoluene	ND		2.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Acetone	ND		15	2.4	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Acrolein	ND		30	8.2	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Acrylonitrile	ND		10	2.8	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Benzene	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Bromobenzene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Bromochloromethane	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Bromodichloromethane	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Bromoform	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Bromomethane	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Carbon disulfide	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Chlorobenzene	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Chlorodibromomethane	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Chloroethane	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Chloroform	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Chloromethane	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Dibromomethane	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178282/1-A
Matrix: Solid
Analysis Batch: 178291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178282

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Ethylbenzene	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Hexachloro-1,3-butadiene	ND		2.0	0.60	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Iodomethane	ND		15	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Isopropylbenzene	ND		2.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Methyl tert-butyl ether	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Methylene Chloride	ND		15	3.0	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
m-Xylene & p-Xylene	ND		2.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Naphthalene	ND		5.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
n-Butylbenzene	ND		2.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
N-Propylbenzene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
o-Xylene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
sec-Butylbenzene	ND		2.0	0.50	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Styrene	ND		2.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
tert-Butylbenzene	ND		2.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Tetrachloroethene	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Toluene	ND		2.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
trans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
trans-1,4-Dichloro-2-butene	ND		5.0	1.7	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Trichloroethene	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Trichlorofluoromethane	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Vinyl acetate	ND		5.0	0.60	ug/Kg		12/16/14 11:56	12/16/14 12:30	1
Vinyl chloride	ND		1.0	0.30	ug/Kg		12/16/14 11:56	12/16/14 12:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	94		71 - 136	12/16/14 11:56	12/16/14 12:30	1
4-Bromofluorobenzene (Surr)	96		70 - 120	12/16/14 11:56	12/16/14 12:30	1
Dibromofluoromethane (Surr)	98		75 - 132	12/16/14 11:56	12/16/14 12:30	1
Toluene-d8 (Surr)	100		80 - 120	12/16/14 11:56	12/16/14 12:30	1
Trifluorotoluene (Surr)	96		65 - 140	12/16/14 11:56	12/16/14 12:30	1

Lab Sample ID: LCS 580-178282/2-A
Matrix: Solid
Analysis Batch: 178291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178282

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	30.0	31.9		ug/Kg		106	72 - 123
1,1,1,1-Trichloroethane	30.0	34.0		ug/Kg		113	63 - 135
1,1,1,2,2-Tetrachloroethane	30.0	31.9		ug/Kg		106	73 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	35.6		ug/Kg		119	66 - 163
1,1,2-Trichloroethane	30.0	31.4		ug/Kg		105	77 - 124
1,1-Dichloroethane	30.0	30.2		ug/Kg		101	70 - 128
1,1-Dichloroethene	30.0	35.1		ug/Kg		117	70 - 133
1,1-Dichloropropene	30.0	30.5		ug/Kg		102	77 - 125
1,2,3-Trichlorobenzene	30.0	32.8		ug/Kg		109	61 - 130
1,2,3-Trichloropropane	30.0	30.4		ug/Kg		101	77 - 123

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCS 580-178282/2-A

Matrix: Solid

Analysis Batch: 178291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	30.0	32.0		ug/Kg		107	61 - 130
1,2,4-Trimethylbenzene	30.0	30.7		ug/Kg		102	79 - 124
1,2-Dibromo-3-Chloropropane	30.0	30.4		ug/Kg		101	53 - 132
1,2-Dibromoethane	30.0	30.6		ug/Kg		102	69 - 126
1,2-Dichlorobenzene	30.0	30.2		ug/Kg		101	79 - 117
1,2-Dichloroethane	30.0	28.5		ug/Kg		95	71 - 128
1,2-Dichloropropane	30.0	30.8		ug/Kg		103	76 - 161
1,3,5-Trimethylbenzene	30.0	32.2		ug/Kg		107	80 - 125
1,3-Dichlorobenzene	30.0	30.3		ug/Kg		101	79 - 119
1,3-Dichloropropane	30.0	30.4		ug/Kg		101	77 - 123
1,4-Dichlorobenzene	30.0	29.1		ug/Kg		97	79 - 117
2,2-Dichloropropane	30.0	29.0		ug/Kg		97	56 - 144
2-Butanone	120	134		ug/Kg		111	30 - 160
2-Chloroethyl vinyl ether	30.0	23.9		ug/Kg		80	60 - 150
2-Chlorotoluene	30.0	30.1		ug/Kg		100	79 - 122
2-Hexanone	120	127		ug/Kg		106	45 - 145
4-Chlorotoluene	30.0	30.5		ug/Kg		102	80 - 122
4-Isopropyltoluene	30.0	32.3		ug/Kg		108	78 - 126
4-Methyl-2-pentanone	120	128		ug/Kg		106	45 - 145
Acetone	120	125		ug/Kg		104	20 - 160
Acrolein	178	146		ug/Kg		82	10 - 125
Acrylonitrile	300	302		ug/Kg		101	74 - 117
Benzene	30.0	30.2		ug/Kg		101	70 - 128
Bromobenzene	30.0	30.2		ug/Kg		101	80 - 120
Bromochloromethane	30.0	31.2		ug/Kg		104	78 - 123
Bromodichloromethane	30.0	31.0		ug/Kg		103	58 - 133
Bromoform	30.0	31.1		ug/Kg		104	50 - 124
Bromomethane	30.0	33.8		ug/Kg		113	57 - 148
Carbon disulfide	30.0	30.7		ug/Kg		102	45 - 160
Carbon tetrachloride	30.0	29.6		ug/Kg		99	59 - 145
Chlorobenzene	30.0	30.4		ug/Kg		101	75 - 120
Chlorodibromomethane	30.0	31.7		ug/Kg		106	42 - 129
Chloroethane	30.0	31.9		ug/Kg		106	48 - 167
Chloroform	30.0	29.5		ug/Kg		98	78 - 125
Chloromethane	30.0	39.0		ug/Kg		130	55 - 136
cis-1,2-Dichloroethene	30.0	34.8		ug/Kg		116	70 - 130
cis-1,3-Dichloropropene	30.0	31.6		ug/Kg		105	69 - 129
Dibromomethane	30.0	29.7		ug/Kg		99	78 - 126
Dichlorodifluoromethane	30.0	33.7		ug/Kg		112	38 - 150
Ethylbenzene	30.0	31.0		ug/Kg		103	78 - 126
Hexachloro-1,3-butadiene	30.0	31.9		ug/Kg		106	68 - 134
Iodomethane	30.0	35.6		ug/Kg		119	44 - 148
Isopropylbenzene	30.0	31.0		ug/Kg		103	79 - 127
Methyl tert-butyl ether	30.0	30.2		ug/Kg		101	65 - 125
Methylene Chloride	30.0	35.3		ug/Kg		118	57 - 146
m-Xylene & p-Xylene	30.0	30.8		ug/Kg		103	78 - 126
Naphthalene	30.0	32.9		ug/Kg		110	14 - 170
n-Butylbenzene	30.0	32.0		ug/Kg		107	78 - 128

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCS 580-178282/2-A

Matrix: Solid

Analysis Batch: 178291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	30.0	31.0		ug/Kg		103	81 - 127
o-Xylene	30.0	30.9		ug/Kg		103	77 - 127
sec-Butylbenzene	30.0	32.3		ug/Kg		108	78 - 128
Styrene	30.0	31.3		ug/Kg		104	79 - 127
tert-Butylbenzene	30.0	29.8		ug/Kg		99	71 - 136
Tetrachloroethene	30.0	31.6		ug/Kg		105	56 - 155
Toluene	30.0	29.6		ug/Kg		99	75 - 126
trans-1,2-Dichloroethene	30.0	35.0		ug/Kg		117	76 - 131
trans-1,3-Dichloropropene	30.0	31.4		ug/Kg		105	72 - 129
trans-1,4-Dichloro-2-butene	30.0	30.8		ug/Kg		103	42 - 160
Trichloroethene	30.0	30.8		ug/Kg		103	83 - 124
Trichlorofluoromethane	30.0	35.4		ug/Kg		118	47 - 165
Vinyl acetate	60.5	55.5		ug/Kg		92	19 - 144
Vinyl chloride	30.0	35.6		ug/Kg		119	67 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		71 - 136
4-Bromofluorobenzene (Surr)	98		70 - 120
Dibromofluoromethane (Surr)	103		75 - 132
Toluene-d8 (Surr)	99		80 - 120
Trifluorotoluene (Surr)	97		65 - 140

Lab Sample ID: LCSD 580-178282/3-A

Matrix: Solid

Analysis Batch: 178291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	30.0	31.4		ug/Kg		105	72 - 123	2	20
1,1,1-Trichloroethane	30.0	32.3		ug/Kg		108	63 - 135	5	20
1,1,2,2-Tetrachloroethane	30.0	31.6		ug/Kg		105	73 - 125	1	22
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	33.8		ug/Kg		113	66 - 163	5	30
1,1,2-Trichloroethane	30.0	29.9		ug/Kg		100	77 - 124	5	18
1,1-Dichloroethane	30.0	28.7		ug/Kg		96	70 - 128	5	21
1,1-Dichloroethene	30.0	32.2		ug/Kg		107	70 - 133	9	23
1,1-Dichloropropene	30.0	28.9		ug/Kg		96	77 - 125	5	16
1,2,3-Trichlorobenzene	30.0	29.8		ug/Kg		99	61 - 130	10	23
1,2,3-Trichloropropane	30.0	28.9		ug/Kg		96	77 - 123	5	23
1,2,4-Trichlorobenzene	30.0	29.4		ug/Kg		98	61 - 130	9	22
1,2,4-Trimethylbenzene	30.0	28.5		ug/Kg		95	79 - 124	7	18
1,2-Dibromo-3-Chloropropane	30.0	29.4		ug/Kg		98	53 - 132	4	27
1,2-Dibromoethane	30.0	29.5		ug/Kg		98	69 - 126	4	21
1,2-Dichlorobenzene	30.0	28.5		ug/Kg		95	79 - 117	6	17
1,2-Dichloroethane	30.0	27.1		ug/Kg		90	71 - 128	5	18
1,2-Dichloropropane	30.0	29.6		ug/Kg		99	76 - 161	4	15
1,3,5-Trimethylbenzene	30.0	29.9		ug/Kg		100	80 - 125	7	18
1,3-Dichlorobenzene	30.0	27.6		ug/Kg		92	79 - 119	9	17
1,3-Dichloropropane	30.0	29.4		ug/Kg		98	77 - 123	3	19

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178282/3-A

Matrix: Solid

Analysis Batch: 178291

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,4-Dichlorobenzene	30.0	27.7		ug/Kg		92	79 - 117	5	18	
2,2-Dichloropropane	30.0	27.0		ug/Kg		90	56 - 144	7	21	
2-Butanone	120	126		ug/Kg		105	30 - 160	6	30	
2-Chloroethyl vinyl ether	30.0	21.6		ug/Kg		72	60 - 150	10	30	
2-Chlorotoluene	30.0	28.5		ug/Kg		95	79 - 122	5	18	
2-Hexanone	120	125		ug/Kg		104	45 - 145	2	30	
4-Chlorotoluene	30.0	28.4		ug/Kg		95	80 - 122	7	18	
4-Isopropyltoluene	30.0	29.6		ug/Kg		99	78 - 126	9	18	
4-Methyl-2-pentanone	120	125		ug/Kg		104	45 - 145	2	30	
Acetone	120	118		ug/Kg		99	20 - 160	6	30	
Acrolein	178	150		ug/Kg		84	10 - 125	3	30	
Acrylonitrile	300	292		ug/Kg		97	74 - 117	3	30	
Benzene	30.0	28.7		ug/Kg		96	70 - 128	5	19	
Bromobenzene	30.0	28.2		ug/Kg		94	80 - 120	7	19	
Bromochloromethane	30.0	29.7		ug/Kg		99	78 - 123	5	19	
Bromodichloromethane	30.0	28.7		ug/Kg		96	58 - 133	8	19	
Bromoform	30.0	29.0		ug/Kg		97	50 - 124	7	25	
Bromomethane	30.0	32.4		ug/Kg		108	57 - 148	4	29	
Carbon disulfide	30.0	28.9		ug/Kg		96	45 - 160	6	30	
Carbon tetrachloride	30.0	27.8		ug/Kg		93	59 - 145	6	19	
Chlorobenzene	30.0	28.9		ug/Kg		96	75 - 120	5	21	
Chlorodibromomethane	30.0	30.7		ug/Kg		102	42 - 129	3	23	
Chloroethane	30.0	30.6		ug/Kg		102	48 - 167	4	53	
Chloroform	30.0	28.3		ug/Kg		94	78 - 125	4	17	
Chloromethane	30.0	37.8		ug/Kg		126	55 - 136	3	26	
cis-1,2-Dichloroethene	30.0	33.8		ug/Kg		113	70 - 130	3	19	
cis-1,3-Dichloropropene	30.0	29.8		ug/Kg		99	69 - 129	6	19	
Dibromomethane	30.0	28.4		ug/Kg		95	78 - 126	5	18	
Dichlorodifluoromethane	30.0	32.3		ug/Kg		108	38 - 150	4	26	
Ethylbenzene	30.0	30.1		ug/Kg		100	78 - 126	3	23	
Hexachloro-1,3-butadiene	30.0	28.1		ug/Kg		94	68 - 134	13	21	
Iodomethane	30.0	33.7		ug/Kg		112	44 - 148	6	30	
Isopropylbenzene	30.0	30.0		ug/Kg		100	79 - 127	3	20	
Methyl tert-butyl ether	30.0	29.1		ug/Kg		97	65 - 125	4	30	
Methylene Chloride	30.0	34.6		ug/Kg		115	57 - 146	2	21	
m-Xylene & p-Xylene	30.0	29.8		ug/Kg		99	78 - 126	3	23	
Naphthalene	30.0	30.5		ug/Kg		102	14 - 170	7	50	
n-Butylbenzene	30.0	29.5		ug/Kg		98	78 - 128	8	17	
N-Propylbenzene	30.0	28.6		ug/Kg		95	81 - 127	8	20	
o-Xylene	30.0	30.4		ug/Kg		101	77 - 127	2	22	
sec-Butylbenzene	30.0	29.5		ug/Kg		98	78 - 128	9	17	
Styrene	30.0	30.8		ug/Kg		103	79 - 127	2	21	
tert-Butylbenzene	30.0	27.8		ug/Kg		93	71 - 136	7	27	
Tetrachloroethene	30.0	29.9		ug/Kg		100	56 - 155	5	27	
Toluene	30.0	28.9		ug/Kg		96	75 - 126	2	19	
trans-1,2-Dichloroethene	30.0	34.0		ug/Kg		113	76 - 131	3	18	
trans-1,3-Dichloropropene	30.0	29.6		ug/Kg		99	72 - 129	6	20	
trans-1,4-Dichloro-2-butene	30.0	27.8		ug/Kg		93	42 - 160	10	30	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178282/3-A
Matrix: Solid
Analysis Batch: 178291

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	30.0	29.1		ug/Kg		97	83 - 124	6	17
Trichlorofluoromethane	30.0	33.1		ug/Kg		110	47 - 165	7	54
Vinyl acetate	60.5	55.0		ug/Kg		91	19 - 144	1	30
Vinyl chloride	30.0	33.8		ug/Kg		113	67 - 131	5	22

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		71 - 136
4-Bromofluorobenzene (Surr)	98		70 - 120
Dibromofluoromethane (Surr)	104		75 - 132
Toluene-d8 (Surr)	102		80 - 120
Trifluorotoluene (Surr)	99		65 - 140

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

Lab Sample ID: MB 580-178110/1-A
Matrix: Water
Analysis Batch: 178265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
1,2-Dichlorobenzene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
1,3-Dichlorobenzene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
1,4-Dichlorobenzene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
1-Methylnaphthalene	ND		0.060	0.030	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,2'-oxybis[1-chloropropane]	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,4-Dichlorophenol	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,4-Dimethylphenol	ND		2.0	0.30	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,4-Dinitrophenol	ND		5.0	1.0	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,4-Dinitrotoluene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,6-Dinitrotoluene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2-Chloronaphthalene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
2-Chlorophenol	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
2-Methylphenol	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2-Nitroaniline	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
2-Nitrophenol	ND	^	0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
3 & 4 Methylphenol	ND		0.80	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
3,3'-Dichlorobenzidine	ND		2.0	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
3-Nitroaniline	ND		0.40	0.12	ug/L		12/13/14 11:42	12/16/14 12:17	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.0	ug/L		12/13/14 11:42	12/16/14 12:17	1
4-Bromophenyl phenyl ether	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
4-Chloro-3-methylphenol	ND	^	0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
4-Chloroaniline	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
4-Chlorophenyl phenyl ether	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
4-Nitroaniline	ND		0.60	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
4-Nitrophenol	ND		3.0	1.0	ug/L		12/13/14 11:42	12/16/14 12:17	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178110/1-A

Matrix: Water

Analysis Batch: 178265

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 178110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.10	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Acenaphthylene	ND		0.080	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Anthracene	ND		0.040	0.010	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzo[a]anthracene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzo[b]fluoranthene	ND		0.080	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzo[g,h,i]perylene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzo[k]fluoranthene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzoic acid	ND		3.0	0.60	ug/L		12/13/14 11:42	12/16/14 12:17	1
Benzyl alcohol	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Bis(2-chloroethoxy)methane	ND	^	0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Bis(2-chloroethyl)ether	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Bis(2-ethylhexyl) phthalate	1.86	J	3.0	1.2	ug/L		12/13/14 11:42	12/16/14 12:17	1
Butyl benzyl phthalate	0.491	J	0.60	0.20	ug/L		12/13/14 11:42	12/16/14 12:17	1
Carbazole	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Chrysene	ND		0.040	0.013	ug/L		12/13/14 11:42	12/16/14 12:17	1
Dibenz(a,h)anthracene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Dibenzofuran	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Diethyl phthalate	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Dimethyl phthalate	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Di-n-butyl phthalate	1.18		0.40	0.13	ug/L		12/13/14 11:42	12/16/14 12:17	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		12/13/14 11:42	12/16/14 12:17	1
Fluoranthene	ND		0.050	0.013	ug/L		12/13/14 11:42	12/16/14 12:17	1
Fluorene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Hexachlorobenzene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Hexachlorobutadiene	ND		0.60	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Hexachlorocyclopentadiene	ND		2.0	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Hexachloroethane	ND		0.60	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Indeno[1,2,3-cd]pyrene	ND		0.060	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Isophorone	ND	^	0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Naphthalene	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Nitrobenzene	ND	^	0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		12/13/14 11:42	12/16/14 12:17	1
N-Nitrosodi-n-propylamine	ND	^	0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
N-Nitrosodiphenylamine	ND		0.40	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Pentachlorophenol	ND		0.70	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Phenanthrene	ND		0.080	0.020	ug/L		12/13/14 11:42	12/16/14 12:17	1
Phenol	ND		0.60	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1
Pyrene	ND		0.060	0.013	ug/L		12/13/14 11:42	12/16/14 12:17	1
2,3,4,6-Tetrachlorophenol	ND		0.70	0.10	ug/L		12/13/14 11:42	12/16/14 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		44 - 125	12/13/14 11:42	12/16/14 12:17	1
2-Fluorobiphenyl	76		50 - 120	12/13/14 11:42	12/16/14 12:17	1
2-Fluorophenol	62		30 - 134	12/13/14 11:42	12/16/14 12:17	1
Nitrobenzene-d5	76		59 - 120	12/13/14 11:42	12/16/14 12:17	1
Phenol-d5	71		52 - 120	12/13/14 11:42	12/16/14 12:17	1
Terphenyl-d14	88		64 - 150	12/13/14 11:42	12/16/14 12:17	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCS 580-178110/2-A

Matrix: Water

Analysis Batch: 178265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.49		ug/L		75	40 - 125
1,2-Dichlorobenzene	2.00	1.49		ug/L		74	44 - 125
1,3-Dichlorobenzene	2.00	1.38		ug/L		69	40 - 125
1,4-Dichlorobenzene	2.00	1.36		ug/L		68	40 - 125
1-Methylnaphthalene	2.00	1.62		ug/L		81	54 - 125
2,2'-oxybis[1-chloropropane]	2.00	1.18		ug/L		59	44 - 130
2,4,5-Trichlorophenol	2.00	1.85		ug/L		92	66 - 130
2,4,6-Trichlorophenol	2.00	1.93		ug/L		97	55 - 140
2,4-Dichlorophenol	2.00	1.90		ug/L		95	50 - 140
2,4-Dimethylphenol	2.00	1.54	J	ug/L		77	30 - 135
2,4-Dinitrophenol	4.00	2.81	J	ug/L		70	24 - 146
2,4-Dinitrotoluene	2.00	1.81		ug/L		90	73 - 126
2,6-Dinitrotoluene	2.00	1.83		ug/L		92	67 - 134
2-Chloronaphthalene	2.00	1.73		ug/L		86	55 - 125
2-Chlorophenol	2.00	1.91		ug/L		96	57 - 125
2-Methylnaphthalene	2.00	1.61		ug/L		81	56 - 125
2-Methylphenol	2.00	1.82		ug/L		91	60 - 130
2-Nitroaniline	2.00	1.79		ug/L		90	52 - 140
2-Nitrophenol	2.00	2.08	^	ug/L		104	55 - 140
3 & 4 Methylphenol	2.00	1.88		ug/L		94	60 - 130
3,3'-Dichlorobenzidine	4.00	0.688	J *	ug/L		17	20 - 175
3-Nitroaniline	2.00	0.698		ug/L		35	22 - 124
4,6-Dinitro-2-methylphenol	4.00	3.38	J	ug/L		84	50 - 136
4-Bromophenyl phenyl ether	2.00	1.93		ug/L		97	62 - 132
4-Chloro-3-methylphenol	2.00	1.94	^	ug/L		97	65 - 145
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 150
4-Chlorophenyl phenyl ether	2.00	1.73		ug/L		86	59 - 125
4-Nitroaniline	2.00	1.41		ug/L		71	49 - 125
4-Nitrophenol	4.00	3.28		ug/L		82	35 - 153
Acenaphthene	2.00	1.73		ug/L		87	63 - 125
Acenaphthylene	2.00	1.68		ug/L		84	62 - 125
Anthracene	2.00	1.60		ug/L		80	50 - 125
Benzo[a]anthracene	2.00	1.91		ug/L		96	65 - 125
Benzo[a]pyrene	2.00	1.46		ug/L		73	45 - 125
Benzo[b]fluoranthene	2.00	1.83		ug/L		91	70 - 129
Benzo[g,h,i]perylene	2.00	1.84		ug/L		92	65 - 153
Benzo[k]fluoranthene	2.00	1.75		ug/L		88	70 - 123
Benzoic acid	4.00	3.98		ug/L		99	20 - 144
Benzyl alcohol	2.00	1.76		ug/L		88	41 - 144
Bis(2-chloroethoxy)methane	2.00	1.77	^	ug/L		89	59 - 125
Bis(2-chloroethyl)ether	2.00	1.73		ug/L		87	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	6.21	*	ug/L		311	70 - 185
Butyl benzyl phthalate	2.00	2.53		ug/L		126	60 - 167
Carbazole	2.00	1.92		ug/L		96	75 - 142
Chrysene	2.00	1.99		ug/L		100	70 - 125
Dibenz(a,h)anthracene	2.00	1.57		ug/L		79	69 - 154
Dibenzofuran	2.00	1.70		ug/L		85	60 - 125
Diethyl phthalate	2.00	1.82		ug/L		91	60 - 150

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCS 580-178110/2-A

Matrix: Water

Analysis Batch: 178265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Dimethyl phthalate	2.00	1.78		ug/L		89	65 - 155	
Di-n-butyl phthalate	2.00	2.20		ug/L		110	55 - 167	
Di-n-octyl phthalate	2.00	1.93		ug/L		97	55 - 150	
Fluoranthene	2.00	1.92		ug/L		96	70 - 145	
Fluorene	2.00	1.82		ug/L		91	69 - 125	
Hexachlorobenzene	2.00	2.03		ug/L		102	61 - 125	
Hexachlorobutadiene	2.00	1.28		ug/L		64	25 - 125	
Hexachlorocyclopentadiene	2.00	1.08	J	ug/L		54	20 - 125	
Hexachloroethane	2.00	1.29		ug/L		64	30 - 125	
Indeno[1,2,3-cd]pyrene	2.00	1.85		ug/L		92	70 - 136	
Isophorone	2.00	1.78	^	ug/L		89	64 - 125	
Naphthalene	2.00	1.60		ug/L		80	56 - 125	
Nitrobenzene	2.00	1.89	^	ug/L		94	62 - 125	
N-Nitrosodimethylamine	2.00	1.17	J	ug/L		58	33 - 143	
N-Nitrosodi-n-propylamine	2.00	1.54	^	ug/L		77	60 - 120	
N-Nitrosodiphenylamine	2.00	1.40		ug/L		70	40 - 135	
Pentachlorophenol	4.00	3.14		ug/L		78	20 - 145	
Phenanthrene	2.00	1.74		ug/L		87	70 - 125	
Phenol	2.00	1.72		ug/L		86	53 - 130	
Pyrene	2.00	1.95		ug/L		98	70 - 133	
2,3,4,6-Tetrachlorophenol	2.00	1.83		ug/L		92	60 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	86		44 - 125
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	75		30 - 134
Nitrobenzene-d5	79		59 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	92		64 - 150

Lab Sample ID: LCSD 580-178110/3-A

Matrix: Water

Analysis Batch: 178265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
1,2,4-Trichlorobenzene	2.00	1.59		ug/L		79	40 - 125	6	20	
1,2-Dichlorobenzene	2.00	1.45		ug/L		73	44 - 125	2	20	
1,3-Dichlorobenzene	2.00	1.44		ug/L		72	40 - 125	4	20	
1,4-Dichlorobenzene	2.00	1.49		ug/L		74	40 - 125	9	20	
1-Methylnaphthalene	2.00	1.63		ug/L		82	54 - 125	1	20	
2,2'-oxybis[1-chloropropane]	2.00	1.20		ug/L		60	44 - 130	1	20	
2,4,5-Trichlorophenol	2.00	1.89		ug/L		94	66 - 130	2	20	
2,4,6-Trichlorophenol	2.00	2.12		ug/L		106	55 - 140	9	20	
2,4-Dichlorophenol	2.00	2.03		ug/L		101	50 - 140	7	20	
2,4-Dimethylphenol	2.00	1.70	J	ug/L		85	30 - 135	10	20	
2,4-Dinitrophenol	4.00	2.99	J	ug/L		75	24 - 146	6	20	
2,4-Dinitrotoluene	2.00	1.84		ug/L		92	73 - 126	2	20	
2,6-Dinitrotoluene	2.00	1.94		ug/L		97	67 - 134	5	20	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178110/3-A

Matrix: Water

Analysis Batch: 178265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2-Chloronaphthalene	2.00	1.71		ug/L		85	55 - 125	1	20	
2-Chlorophenol	2.00	1.98		ug/L		99	57 - 125	4	20	
2-Methylnaphthalene	2.00	1.72		ug/L		86	56 - 125	6	20	
2-Methylphenol	2.00	1.75		ug/L		87	60 - 130	4	20	
2-Nitroaniline	2.00	1.78		ug/L		89	52 - 140	1	20	
2-Nitrophenol	2.00	2.11	^	ug/L		105	55 - 140	1	20	
3 & 4 Methylphenol	2.00	1.88		ug/L		94	60 - 130	0	20	
3,3'-Dichlorobenzidine	4.00	1.21	J *	ug/L		30	20 - 175	55	20	
3-Nitroaniline	2.00	1.19	*	ug/L		60	22 - 124	52	20	
4,6-Dinitro-2-methylphenol	4.00	3.56	J	ug/L		89	50 - 136	5	20	
4-Bromophenyl phenyl ether	2.00	1.90		ug/L		95	62 - 132	2	20	
4-Chloro-3-methylphenol	2.00	2.03	^	ug/L		101	65 - 145	5	20	
4-Chloroaniline	2.00	ND	*	ug/L		3	20 - 150	106	20	
4-Chlorophenyl phenyl ether	2.00	1.78		ug/L		89	59 - 125	3	20	
4-Nitroaniline	2.00	1.52		ug/L		76	49 - 125	8	20	
4-Nitrophenol	4.00	3.10		ug/L		78	35 - 153	6	20	
Acenaphthene	2.00	1.72		ug/L		86	63 - 125	1	20	
Acenaphthylene	2.00	1.76		ug/L		88	62 - 125	5	20	
Anthracene	2.00	1.61		ug/L		81	50 - 125	1	20	
Benzo[a]anthracene	2.00	1.85		ug/L		92	65 - 125	4	20	
Benzo[a]pyrene	2.00	1.51		ug/L		76	45 - 125	3	20	
Benzo[b]fluoranthene	2.00	1.80		ug/L		90	70 - 129	2	20	
Benzo[g,h,i]perylene	2.00	1.85		ug/L		92	65 - 153	0	20	
Benzo[k]fluoranthene	2.00	1.70		ug/L		85	70 - 123	3	20	
Benzoic acid	4.00	4.18		ug/L		104	20 - 144	5	20	
Benzyl alcohol	2.00	1.73		ug/L		87	41 - 144	2	20	
Bis(2-chloroethoxy)methane	2.00	1.86	^	ug/L		93	59 - 125	5	20	
Bis(2-chloroethyl)ether	2.00	1.78		ug/L		89	55 - 125	3	20	
Bis(2-ethylhexyl) phthalate	2.00	3.15	*	ug/L		158	70 - 185	65	20	
Butyl benzyl phthalate	2.00	3.14	*	ug/L		157	60 - 167	22	20	
Carbazole	2.00	1.99		ug/L		99	75 - 142	3	20	
Chrysene	2.00	1.89		ug/L		95	70 - 125	5	20	
Dibenz(a,h)anthracene	2.00	1.71		ug/L		85	69 - 154	8	20	
Dibenzofuran	2.00	1.75		ug/L		87	60 - 125	2	20	
Diethyl phthalate	2.00	1.80		ug/L		90	60 - 150	1	20	
Dimethyl phthalate	2.00	1.75		ug/L		88	65 - 155	1	20	
Di-n-butyl phthalate	2.00	2.36		ug/L		118	55 - 167	7	20	
Di-n-octyl phthalate	2.00	1.97		ug/L		99	55 - 150	2	20	
Fluoranthene	2.00	1.99		ug/L		99	70 - 145	3	20	
Fluorene	2.00	1.83		ug/L		92	69 - 125	1	20	
Hexachlorobenzene	2.00	2.01		ug/L		100	61 - 125	1	20	
Hexachlorobutadiene	2.00	1.46		ug/L		73	25 - 125	13	20	
Hexachlorocyclopentadiene	2.00	1.22	J	ug/L		61	20 - 125	12	20	
Hexachloroethane	2.00	1.32		ug/L		66	30 - 125	2	20	
Indeno[1,2,3-cd]pyrene	2.00	1.72		ug/L		86	70 - 136	7	20	
Isophorone	2.00	1.81	^	ug/L		90	64 - 125	1	20	
Naphthalene	2.00	1.70		ug/L		85	56 - 125	6	20	
Nitrobenzene	2.00	1.84	^	ug/L		92	62 - 125	3	20	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178110/3-A

Matrix: Water

Analysis Batch: 178265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
N-Nitrosodimethylamine	2.00	1.42	J	ug/L		71	33 - 143	20	20	
N-Nitrosodi-n-propylamine	2.00	1.50	^	ug/L		75	60 - 120	3	20	
N-Nitrosodiphenylamine	2.00	1.41		ug/L		70	40 - 135	0	20	
Pentachlorophenol	4.00	2.83		ug/L		71	20 - 145	10	20	
Phenanthrene	2.00	1.86		ug/L		93	70 - 125	6	20	
Phenol	2.00	1.63		ug/L		81	53 - 130	5	20	
Pyrene	2.00	1.92		ug/L		96	70 - 133	2	20	
2,3,4,6-Tetrachlorophenol	2.00	1.98		ug/L		99	60 - 130	8	20	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	92		44 - 125
2-Fluorobiphenyl	84		50 - 120
2-Fluorophenol	80		30 - 134
Nitrobenzene-d5	85		59 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	99		64 - 150

Lab Sample ID: MB 580-178277/1-A

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 178277

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,4-Dimethylphenol	ND	^	10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,4-Dinitrophenol	ND		100	20	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2-Chlorophenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2-Methylphenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2-Nitroaniline	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
2-Nitrophenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
3-Nitroaniline	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
4-Chloroaniline	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178277/1-A

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 178277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
4-Nitroaniline	ND		10	2.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
4-Nitrophenol	ND		100	25	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Acenaphthene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Anthracene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzoic acid	ND		250	75	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Benzyl alcohol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Bis(2-chloroethoxy)methane	ND	^	10	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Bis(2-ethylhexyl) phthalate	ND		60	5.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Butyl benzyl phthalate	ND		20	5.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Carbazole	ND		10	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Chrysene	ND		2.5	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Dibenzofuran	ND		10	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Diethyl phthalate	ND		20	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Fluoranthene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Fluorene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Hexachloroethane	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Isophorone	ND	^	10	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Naphthalene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Nitrobenzene	ND	^	10	3.4	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Pentachlorophenol	ND		20	2.0	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Phenanthrene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Phenol	ND		10	1.5	ug/Kg		12/18/14 16:00	12/19/14 15:34	1
Pyrene	ND		2.0	0.50	ug/Kg		12/18/14 16:00	12/19/14 15:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		28 - 143	12/18/14 16:00	12/19/14 15:34	1
2-Fluorobiphenyl	59		42 - 140	12/18/14 16:00	12/19/14 15:34	1
2-Fluorophenol	62		36 - 145	12/18/14 16:00	12/19/14 15:34	1
Nitrobenzene-d5	60		38 - 141	12/18/14 16:00	12/19/14 15:34	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178277/1-A
Matrix: Solid
Analysis Batch: 178585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178277

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Phenol-d5	57		38 - 149	12/18/14 16:00	12/19/14 15:34	1
Terphenyl-d14	66		42 - 151	12/18/14 16:00	12/19/14 15:34	1

Lab Sample ID: LCS 580-178277/2-A
Matrix: Solid
Analysis Batch: 178585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,2,4-Trichlorobenzene	100	88.1		ug/Kg		88	66 - 115
1,2-Dichlorobenzene	100	75.4		ug/Kg		75	64 - 112
1,3-Dichlorobenzene	100	73.9		ug/Kg		74	64 - 111
1,4-Dichlorobenzene	100	75.1		ug/Kg		75	65 - 110
1-Methylnaphthalene	100	85.6		ug/Kg		86	62 - 118
2,2'-oxybis[1-chloropropane]	100	72.2		ug/Kg		72	41 - 126
2,4,5-Trichlorophenol	100	92.6		ug/Kg		93	57 - 133
2,4,6-Trichlorophenol	100	82.5		ug/Kg		83	62 - 133
2,4-Dichlorophenol	100	91.2		ug/Kg		91	68 - 125
2,4-Dimethylphenol	100	87.8	^	ug/Kg		88	54 - 139
2,4-Dinitrophenol	200	135		ug/Kg		68	20 - 141
2,4-Dinitrotoluene	100	83.1		ug/Kg		83	68 - 121
2,6-Dinitrotoluene	100	84.6		ug/Kg		85	66 - 123
2-Chloronaphthalene	100	84.2		ug/Kg		84	68 - 112
2-Chlorophenol	100	79.5		ug/Kg		80	68 - 117
2-Methylnaphthalene	100	81.7		ug/Kg		82	64 - 119
2-Methylphenol	100	77.1		ug/Kg		77	71 - 116
2-Nitroaniline	100	86.2		ug/Kg		86	64 - 112
2-Nitrophenol	100	89.0		ug/Kg		89	67 - 127
3 & 4 Methylphenol	100	78.5		ug/Kg		78	70 - 116
3,3'-Dichlorobenzidine	200	99.7		ug/Kg		50	20 - 103
3-Nitroaniline	100	42.5		ug/Kg		42	27 - 103
4,6-Dinitro-2-methylphenol	200	164		ug/Kg		82	48 - 130
4-Bromophenyl phenyl ether	100	89.7		ug/Kg		90	68 - 122
4-Chloro-3-methylphenol	100	83.9		ug/Kg		84	69 - 121
4-Chloroaniline	100	17.0	*	ug/Kg		17	20 - 103
4-Chlorophenyl phenyl ether	100	79.5		ug/Kg		79	75 - 108
4-Nitroaniline	100	59.9		ug/Kg		60	58 - 108
4-Nitrophenol	200	166		ug/Kg		83	20 - 165
Acenaphthene	100	86.3		ug/Kg		86	68 - 116
Acenaphthylene	100	79.0		ug/Kg		79	68 - 120
Anthracene	100	85.4		ug/Kg		85	73 - 116
Benzo[a]anthracene	100	86.2		ug/Kg		86	76 - 119
Benzo[a]pyrene	100	95.2		ug/Kg		95	72 - 117
Benzo[b]fluoranthene	100	95.8		ug/Kg		96	63 - 132
Benzo[g,h,i]perylene	100	110		ug/Kg		110	55 - 139
Benzo[k]fluoranthene	100	86.2		ug/Kg		86	63 - 119
Benzoic acid	200	128	J	ug/Kg		64	29 - 158
Benzyl alcohol	100	80.6		ug/Kg		81	55 - 123
Bis(2-chloroethoxy)methane	100	84.3	^	ug/Kg		84	69 - 107

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCS 580-178277/2-A

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	100	71.1		ug/Kg		71	62 - 110
Bis(2-ethylhexyl) phthalate	100	101		ug/Kg		101	62 - 144
Butyl benzyl phthalate	100	96.4		ug/Kg		96	69 - 142
Carbazole	100	91.6		ug/Kg		92	76 - 135
Chrysene	100	90.7		ug/Kg		91	75 - 114
Dibenz(a,h)anthracene	100	107		ug/Kg		107	56 - 134
Dibenzofuran	100	82.2		ug/Kg		82	72 - 109
Diethyl phthalate	100	77.1		ug/Kg		77	73 - 116
Dimethyl phthalate	100	81.9		ug/Kg		82	78 - 117
Di-n-butyl phthalate	100	93.7		ug/Kg		94	66 - 140
Di-n-octyl phthalate	100	98.2		ug/Kg		98	65 - 141
Fluoranthene	100	86.0		ug/Kg		86	73 - 125
Fluorene	100	81.2		ug/Kg		81	70 - 121
Hexachlorobenzene	100	91.5		ug/Kg		91	66 - 117
Hexachlorobutadiene	100	89.7		ug/Kg		90	65 - 116
Hexachlorocyclopentadiene	100	81.0		ug/Kg		81	46 - 131
Hexachloroethane	100	71.6		ug/Kg		72	62 - 120
Indeno[1,2,3-cd]pyrene	100	104		ug/Kg		104	56 - 127
Isophorone	100	83.9	^	ug/Kg		84	67 - 119
Naphthalene	100	83.5		ug/Kg		83	62 - 112
Nitrobenzene	100	85.1	^	ug/Kg		85	64 - 118
N-Nitrosodimethylamine	100	86.5	J	ug/Kg		87	38 - 133
N-Nitrosodi-n-propylamine	100	77.2		ug/Kg		77	62 - 116
N-Nitrosodiphenylamine	100	88.1		ug/Kg		88	73 - 115
Pentachlorophenol	200	155		ug/Kg		78	45 - 117
Phenanthrene	100	88.7		ug/Kg		89	73 - 106
Phenol	100	73.4		ug/Kg		73	63 - 111
Pyrene	100	86.4		ug/Kg		86	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	93		28 - 143
2-Fluorobiphenyl	79		42 - 140
2-Fluorophenol	87		36 - 145
Nitrobenzene-d5	83		38 - 141
Phenol-d5	78		38 - 149
Terphenyl-d14	94		42 - 151

Lab Sample ID: LCSD 580-178277/3-A

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,2,4-Trichlorobenzene	100	87.6		ug/Kg		88	66 - 115	1	28	
1,2-Dichlorobenzene	100	81.1		ug/Kg		81	64 - 112	7	30	
1,3-Dichlorobenzene	100	77.9		ug/Kg		78	64 - 111	5	30	
1,4-Dichlorobenzene	100	80.7		ug/Kg		81	65 - 110	7	30	
1-Methylnaphthalene	100	85.9		ug/Kg		86	62 - 118	0	30	
2,2'-oxybis[1-chloropropane]	100	72.8		ug/Kg		73	41 - 126	1	57	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178277/3-A

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2,4,5-Trichlorophenol	100	97.8		ug/Kg		98	57 - 133	6	30	
2,4,6-Trichlorophenol	100	90.3		ug/Kg		90	62 - 133	9	30	
2,4-Dichlorophenol	100	92.2		ug/Kg		92	68 - 125	1	30	
2,4-Dimethylphenol	100	92.2	^	ug/Kg		92	54 - 139	5	30	
2,4-Dinitrophenol	200	129		ug/Kg		64	20 - 141	5	36	
2,4-Dinitrotoluene	100	95.0		ug/Kg		95	68 - 121	13	30	
2,6-Dinitrotoluene	100	87.8		ug/Kg		88	66 - 123	4	30	
2-Chloronaphthalene	100	88.6		ug/Kg		89	68 - 112	5	25	
2-Chlorophenol	100	82.5		ug/Kg		83	68 - 117	4	27	
2-Methylnaphthalene	100	86.8		ug/Kg		87	64 - 119	6	27	
2-Methylphenol	100	83.5		ug/Kg		83	71 - 116	8	25	
2-Nitroaniline	100	84.0		ug/Kg		84	64 - 112	3	22	
2-Nitrophenol	100	88.6		ug/Kg		89	67 - 127	0	30	
3 & 4 Methylphenol	100	86.7		ug/Kg		87	70 - 116	10	27	
3,3'-Dichlorobenzidine	200	108		ug/Kg		54	20 - 103	8	60	
3-Nitroaniline	100	45.1		ug/Kg		45	27 - 103	6	33	
4,6-Dinitro-2-methylphenol	200	178		ug/Kg		89	48 - 130	8	22	
4-Bromophenyl phenyl ether	100	95.5		ug/Kg		95	68 - 122	6	30	
4-Chloro-3-methylphenol	100	85.6		ug/Kg		86	69 - 121	2	27	
4-Chloroaniline	100	17.5	*	ug/Kg		18	20 - 103	3	60	
4-Chlorophenyl phenyl ether	100	87.5		ug/Kg		88	75 - 108	10	30	
4-Nitroaniline	100	69.3		ug/Kg		69	58 - 108	14	32	
4-Nitrophenol	200	176		ug/Kg		88	20 - 165	6	30	
Acenaphthene	100	89.3		ug/Kg		89	68 - 116	3	27	
Acenaphthylene	100	82.6		ug/Kg		83	68 - 120	4	28	
Anthracene	100	93.5		ug/Kg		94	73 - 116	9	27	
Benzo[a]anthracene	100	94.0		ug/Kg		94	76 - 119	9	27	
Benzo[a]pyrene	100	97.3		ug/Kg		97	72 - 117	2	30	
Benzo[b]fluoranthene	100	90.6		ug/Kg		91	63 - 132	6	30	
Benzo[g,h,i]perylene	100	112		ug/Kg		112	55 - 139	3	28	
Benzo[k]fluoranthene	100	94.0		ug/Kg		94	63 - 119	9	30	
Benzoic acid	200	131	J	ug/Kg		66	29 - 158	3	28	
Benzyl alcohol	100	73.0		ug/Kg		73	55 - 123	10	60	
Bis(2-chloroethoxy)methane	100	85.8	^	ug/Kg		86	69 - 107	2	30	
Bis(2-chloroethyl)ether	100	76.4		ug/Kg		76	62 - 110	7	22	
Bis(2-ethylhexyl) phthalate	100	110		ug/Kg		110	62 - 144	9	30	
Butyl benzyl phthalate	100	106		ug/Kg		106	69 - 142	9	30	
Carbazole	100	97.0		ug/Kg		97	76 - 135	6	30	
Chrysene	100	96.6		ug/Kg		97	75 - 114	6	26	
Dibenz(a,h)anthracene	100	109		ug/Kg		109	56 - 134	1	30	
Dibenzofuran	100	87.2		ug/Kg		87	72 - 109	6	30	
Diethyl phthalate	100	81.6		ug/Kg		82	73 - 116	6	26	
Dimethyl phthalate	100	88.8		ug/Kg		89	78 - 117	8	30	
Di-n-butyl phthalate	100	101		ug/Kg		101	66 - 140	8	30	
Di-n-octyl phthalate	100	102		ug/Kg		102	65 - 141	4	30	
Fluoranthene	100	90.8		ug/Kg		91	73 - 125	5	30	
Fluorene	100	88.8		ug/Kg		89	70 - 121	9	30	
Hexachlorobenzene	100	101		ug/Kg		101	66 - 117	10	30	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178277/3-A

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit	RPD	Limit
Hexachlorobutadiene	100	93.4		ug/Kg		93	65 - 116	4	30	
Hexachlorocyclopentadiene	100	84.9		ug/Kg		85	46 - 131	5	29	
Hexachloroethane	100	78.2		ug/Kg		78	62 - 120	9	30	
Indeno[1,2,3-cd]pyrene	100	108		ug/Kg		108	56 - 127	4	29	
Isophorone	100	86.4	^	ug/Kg		86	67 - 119	3	30	
Naphthalene	100	85.7		ug/Kg		86	62 - 112	3	26	
Nitrobenzene	100	90.8	^	ug/Kg		91	64 - 118	7	30	
N-Nitrosodimethylamine	100	90.4	J	ug/Kg		90	38 - 133	4	30	
N-Nitrosodi-n-propylamine	100	84.6		ug/Kg		85	62 - 116	9	28	
N-Nitrosodiphenylamine	100	95.8		ug/Kg		96	73 - 115	8	30	
Pentachlorophenol	200	172		ug/Kg		86	45 - 117	10	23	
Phenanthrene	100	93.7		ug/Kg		94	73 - 106	5	28	
Phenol	100	79.5		ug/Kg		80	63 - 111	8	26	
Pyrene	100	91.5		ug/Kg		92	70 - 120	6	30	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol	97		28 - 143
2-Fluorobiphenyl	82		42 - 140
2-Fluorophenol	87		36 - 145
Nitrobenzene-d5	82		38 - 141
Phenol-d5	82		38 - 149
Terphenyl-d14	100		42 - 151

Lab Sample ID: 580-46690-1 MS

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,2,4-Trichlorobenzene	ND		325	ND		ug/Kg	☼	NC	66 - 115	
1,2-Dichlorobenzene	ND		325	ND		ug/Kg	☼	NC	64 - 112	
1,3-Dichlorobenzene	ND		325	ND		ug/Kg	☼	NC	64 - 111	
1,4-Dichlorobenzene	ND		325	ND		ug/Kg	☼	NC	65 - 110	
1-Methylnaphthalene	ND		325	443	J F1	ug/Kg	☼	136	62 - 118	
2,2'-oxybis[1-chloropropane]	ND		325	ND		ug/Kg	☼	NC	41 - 126	
2,4,5-Trichlorophenol	ND		325	ND		ug/Kg	☼	NC	57 - 133	
2,4,6-Trichlorophenol	ND		325	ND		ug/Kg	☼	NC	62 - 133	
2,4-Dichlorophenol	ND		325	ND		ug/Kg	☼	NC	68 - 125	
2,4-Dimethylphenol	ND	^	325	ND	^	ug/Kg	☼	NC	54 - 139	
2,4-Dinitrophenol	ND		651	ND		ug/Kg	☼	NC	20 - 141	
2,4-Dinitrotoluene	ND		325	ND		ug/Kg	☼	NC	68 - 121	
2,6-Dinitrotoluene	ND		325	664	J	ug/Kg	☼	NC	66 - 123	
2-Chloronaphthalene	ND		325	326	J	ug/Kg	☼	100	68 - 112	
2-Chlorophenol	ND		325	ND		ug/Kg	☼	NC	68 - 117	
2-Methylnaphthalene	170	J	325	364	J F1	ug/Kg	☼	59	64 - 119	
2-Methylphenol	ND		325	ND		ug/Kg	☼	NC	71 - 116	
2-Nitroaniline	ND		325	ND		ug/Kg	☼	NC	64 - 112	
2-Nitrophenol	ND		325	ND		ug/Kg	☼	NC	67 - 127	
3 & 4 Methylphenol	1100	J	325	1170	J F1	ug/Kg	☼	7	70 - 116	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: 580-46690-1 MS

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
3,3'-Dichlorobenzidine	ND		651	ND		ug/Kg	*	NC	20 - 103
3-Nitroaniline	ND		325	ND		ug/Kg	*	NC	27 - 103
4,6-Dinitro-2-methylphenol	ND		651	ND		ug/Kg	*	NC	48 - 130
4-Bromophenyl phenyl ether	ND		325	ND		ug/Kg	*	NC	68 - 122
4-Chloro-3-methylphenol	ND		325	1020	J	ug/Kg	*	NC	69 - 121
4-Chloroaniline	ND	*	325	ND		ug/Kg	*	NC	20 - 103
4-Chlorophenyl phenyl ether	ND		325	ND		ug/Kg	*	NC	75 - 108
4-Nitroaniline	ND		325	650	J	ug/Kg	*	NC	58 - 108
4-Nitrophenol	ND		651	ND		ug/Kg	*	NC	20 - 165
Acenaphthene	270	J	325	622	J	ug/Kg	*	108	68 - 116
Acenaphthylene	170	J	325	450	J	ug/Kg	*	86	68 - 120
Anthracene	820		325	892	F1	ug/Kg	*	22	73 - 116
Benzo[a]anthracene	2300		325	2370	4	ug/Kg	*	22	76 - 119
Benzo[a]pyrene	2800		325	2210	4	ug/Kg	*	-178	72 - 117
Benzo[b]fluoranthene	5600		325	3560	4	ug/Kg	*	-614	63 - 132
Benzo[g,h,i]perylene	2000		325	1600	4	ug/Kg	*	-133	55 - 139
Benzo[k]fluoranthene	1400		325	ND	4	ug/Kg	*	0	63 - 119
Benzoic acid	ND		651	ND		ug/Kg	*	NC	29 - 158
Benzyl alcohol	1400	J	325	1440	J 4	ug/Kg	*	23	55 - 123
Bis(2-chloroethoxy)methane	ND	^	325	346	J ^	ug/Kg	*	106	69 - 107
Bis(2-chloroethyl)ether	ND		325	ND		ug/Kg	*	NC	62 - 110
Bis(2-ethylhexyl) phthalate	120000		325	82800	4	ug/Kg	*	-1134	62 - 144
Butyl benzyl phthalate	6100	J	325	1950	J 4	ug/Kg	*	-1282	69 - 142
Carbazole	550	J	325	770	J F1	ug/Kg	*	67	76 - 135
Chrysene	5400		325	2520	4	ug/Kg	*	-886	75 - 114
Dibenz(a,h)anthracene	500	J	325	502	J F1	ug/Kg	*	2	56 - 134
Dibenzofuran	230	J	325	482	J	ug/Kg	*	78	72 - 109
Diethyl phthalate	ND		325	ND		ug/Kg	*	NC	73 - 116
Dimethyl phthalate	420	J	325	452	J F1	ug/Kg	*	10	78 - 117
Di-n-butyl phthalate	ND		325	ND		ug/Kg	*	NC	66 - 140
Di-n-octyl phthalate	5300	J	325	4040	J 4	ug/Kg	*	-381	65 - 141
Fluoranthene	7100		325	5480	4	ug/Kg	*	-510	73 - 125
Fluorene	460	J	325	579	J F1	ug/Kg	*	37	70 - 121
Hexachlorobenzene	ND		325	392	J F1	ug/Kg	*	121	66 - 117
Hexachlorobutadiene	ND		325	ND		ug/Kg	*	NC	65 - 116
Hexachlorocyclopentadiene	ND		325	ND		ug/Kg	*	NC	46 - 131
Hexachloroethane	ND		325	ND		ug/Kg	*	NC	62 - 120
Indeno[1,2,3-cd]pyrene	1900		325	1560	4	ug/Kg	*	-95	56 - 127
Isophorone	ND	^	325	351	J ^	ug/Kg	*	108	67 - 119
Naphthalene	210	J	325	423	J	ug/Kg	*	67	62 - 112
Nitrobenzene	ND	^	325	ND	^	ug/Kg	*	NC	64 - 118
N-Nitrosodimethylamine	ND		325	ND		ug/Kg	*	NC	38 - 133
N-Nitrosodi-n-propylamine	ND		325	ND		ug/Kg	*	NC	62 - 116
N-Nitrosodiphenylamine	ND		325	421	J F1	ug/Kg	*	130	73 - 115
Pentachlorophenol	9500		651	8360	4	ug/Kg	*	-179	45 - 117
Phenanthrene	4200		325	3720	4	ug/Kg	*	-136	73 - 106
Phenol	ND		325	ND		ug/Kg	*	NC	63 - 111

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: 580-46690-1 MS

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	7200		325	5490	4	ug/Kg	☼	-531	70 - 120
Surrogate	%Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol	185	X	28 - 143						
2-Fluorobiphenyl	81		42 - 140						
2-Fluorophenol	89		36 - 145						
Nitrobenzene-d5	80		38 - 141						
Phenol-d5	107		38 - 149						
Terphenyl-d14	179	X	42 - 151						

Lab Sample ID: 580-46690-1 MSD

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		330	ND		ug/Kg	☼	NC	66 - 115	NC	28
1,2-Dichlorobenzene	ND		330	ND		ug/Kg	☼	NC	64 - 112	NC	60
1,3-Dichlorobenzene	ND		330	ND		ug/Kg	☼	NC	64 - 111	NC	60
1,4-Dichlorobenzene	ND		330	ND		ug/Kg	☼	NC	65 - 110	NC	32
1-Methylnaphthalene	ND		330	325	J F2	ug/Kg	☼	98	62 - 118	31	30
2,2'-oxybis[1-chloropropane]	ND		330	ND		ug/Kg	☼	NC	41 - 126	NC	60
2,4,5-Trichlorophenol	ND		330	ND		ug/Kg	☼	NC	57 - 133	NC	60
2,4,6-Trichlorophenol	ND		330	ND		ug/Kg	☼	NC	62 - 133	NC	60
2,4-Dichlorophenol	ND		330	ND		ug/Kg	☼	NC	68 - 125	NC	60
2,4-Dimethylphenol	ND	^	330	ND	^	ug/Kg	☼	NC	54 - 139	NC	60
2,4-Dinitrophenol	ND		660	ND		ug/Kg	☼	NC	20 - 141	NC	60
2,4-Dinitrotoluene	ND		330	561	J	ug/Kg	☼	NC	68 - 121	NC	31
2,6-Dinitrotoluene	ND		330	ND		ug/Kg	☼	NC	66 - 123	NC	60
2-Chloronaphthalene	ND		330	349	J	ug/Kg	☼	106	68 - 112	7	25
2-Chlorophenol	ND		330	ND		ug/Kg	☼	NC	68 - 117	NC	27
2-Methylnaphthalene	170	J	330	333	J F1	ug/Kg	☼	49	64 - 119	9	27
2-Methylphenol	ND		330	ND		ug/Kg	☼	NC	71 - 116	NC	25
2-Nitroaniline	ND		330	ND		ug/Kg	☼	NC	64 - 112	NC	60
2-Nitrophenol	ND		330	ND		ug/Kg	☼	NC	67 - 127	NC	60
3 & 4 Methylphenol	1100	J	330	1030	J F1	ug/Kg	☼	-34	70 - 116	12	27
3,3'-Dichlorobenzidine	ND		660	ND		ug/Kg	☼	NC	20 - 103	NC	60
3-Nitroaniline	ND		330	ND		ug/Kg	☼	NC	27 - 103	NC	60
4,6-Dinitro-2-methylphenol	ND		660	ND		ug/Kg	☼	NC	48 - 130	NC	60
4-Bromophenyl phenyl ether	ND		330	744	J	ug/Kg	☼	NC	68 - 122	NC	60
4-Chloro-3-methylphenol	ND		330	703	J F2	ug/Kg	☼	NC	69 - 121	37	27
4-Chloroaniline	ND	*	330	ND		ug/Kg	☼	NC	20 - 103	NC	60
4-Chlorophenyl phenyl ether	ND		330	ND		ug/Kg	☼	NC	75 - 108	NC	60
4-Nitroaniline	ND		330	718	J	ug/Kg	☼	NC	58 - 108	10	60
4-Nitrophenol	ND		660	ND		ug/Kg	☼	NC	20 - 165	NC	33
Acenaphthene	270	J	330	489	J F1	ug/Kg	☼	66	68 - 116	24	27
Acenaphthylene	170	J	330	398	J	ug/Kg	☼	69	68 - 120	12	28
Anthracene	820		330	1950	F1 F2	ug/Kg	☼	342	73 - 116	74	27
Benzo[a]anthracene	2300		330	3010	4	ug/Kg	☼	214	76 - 119	24	27

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: 580-46690-1 MSD

Matrix: Solid

Analysis Batch: 178585

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 178277

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo[a]pyrene	2800		330	3300	4 F2	ug/Kg	*	154	72 - 117	39	30
Benzo[b]fluoranthene	5600		330	5450	4 F2	ug/Kg	*	-33	63 - 132	42	31
Benzo[g,h,i]perylene	2000		330	1680	4	ug/Kg	*	-107	55 - 139	5	28
Benzo[k]fluoranthene	1400		330	2140	4	ug/Kg	*	216	63 - 119	NC	31
Benzoic acid	ND		660	ND		ug/Kg	*	NC	29 - 158	NC	60
Benzyl alcohol	1400	J	330	1730	J 4	ug/Kg	*	110	55 - 123	18	60
Bis(2-chloroethoxy)methane	ND	^	330	322	J ^	ug/Kg	*	97	69 - 107	7	60
Bis(2-chloroethyl)ether	ND		330	ND		ug/Kg	*	NC	62 - 110	NC	60
Bis(2-ethylhexyl) phthalate	120000		330	70400	4	ug/Kg	*	-1492	62 - 144	16	60
Butyl benzyl phthalate	6100	J	330	ND	4	ug/Kg	*	0	69 - 142	NC	60
Carbazole	550	J	330	1070	J F1	ug/Kg	*	157	76 - 135	33	60
Chrysene	5400		330	5580	4 F2	ug/Kg	*	54	75 - 114	76	26
Dibenz(a,h)anthracene	500	J	330	609	J F1	ug/Kg	*	35	56 - 134	19	30
Dibenzofuran	230	J	330	440	J F1	ug/Kg	*	64	72 - 109	9	60
Diethyl phthalate	ND		330	ND		ug/Kg	*	NC	73 - 116	NC	26
Dimethyl phthalate	420	J	330	404	J F1	ug/Kg	*	-5	78 - 117	11	60
Di-n-butyl phthalate	ND		330	ND		ug/Kg	*	NC	66 - 140	NC	60
Di-n-octyl phthalate	5300	J	330	4000	J 4	ug/Kg	*	-389	65 - 141	1	31
Fluoranthene	7100		330	5690	4	ug/Kg	*	-442	73 - 125	4	36
Fluorene	460	J	330	672	F1	ug/Kg	*	65	70 - 121	15	31
Hexachlorobenzene	ND		330	313	J	ug/Kg	*	95	66 - 117	23	60
Hexachlorobutadiene	ND		330	ND		ug/Kg	*	NC	65 - 116	NC	60
Hexachlorocyclopentadiene	ND		330	ND	F1	ug/Kg	*	0	46 - 131	NC	60
Hexachloroethane	ND		330	ND		ug/Kg	*	NC	62 - 120	NC	60
Indeno[1,2,3-cd]pyrene	1900		330	1570	4	ug/Kg	*	-89	56 - 127	1	29
Isophorone	ND	^	330	313	J ^	ug/Kg	*	95	67 - 119	11	60
Naphthalene	210	J	330	396	J F1	ug/Kg	*	58	62 - 112	6	26
Nitrobenzene	ND	^	330	ND	^	ug/Kg	*	NC	64 - 118	NC	60
N-Nitrosodimethylamine	ND		330	ND		ug/Kg	*	NC	38 - 133	NC	60
N-Nitrosodi-n-propylamine	ND		330	ND		ug/Kg	*	NC	62 - 116	NC	28
N-Nitrosodiphenylamine	ND		330	442	J F1	ug/Kg	*	134	73 - 115	5	60
Pentachlorophenol	9500		660	8680	4	ug/Kg	*	-128	45 - 117	4	68
Phenanthrene	4200		330	3120	4	ug/Kg	*	-314	73 - 106	17	28
Phenol	ND		330	ND		ug/Kg	*	NC	63 - 111	NC	26
Pyrene	7200		330	6360	4	ug/Kg	*	-258	70 - 120	15	31

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	98		28 - 143
2-Fluorobiphenyl	79		42 - 140
2-Fluorophenol	65		36 - 145
Nitrobenzene-d5	80		38 - 141
Phenol-d5	67		38 - 149
Terphenyl-d14	78		42 - 151

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178388/1-A
Matrix: Solid
Analysis Batch: 178406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.571	J	4.0	0.50	mg/Kg		12/17/14 12:03	12/17/14 17:02	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150				12/17/14 12:03	12/17/14 17:02	1

Lab Sample ID: LCS 580-178388/2-A
Matrix: Solid
Analysis Batch: 178406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Gasoline	40.0	29.7		mg/Kg		74	68 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		50 - 150						

Lab Sample ID: LCSD 580-178388/3-A
Matrix: Solid
Analysis Batch: 178406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline	40.0	31.1		mg/Kg		78	68 - 120	5	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		50 - 150						

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

Lab Sample ID: MB 580-178279/1-A
Matrix: Solid
Analysis Batch: 179554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.010	0.0032	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Arochlor 1221	ND		0.011	0.0080	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Arochlor 1232	ND		0.011	0.0070	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Arochlor 1242	ND		0.010	0.0021	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Arochlor 1248	ND		0.010	0.0030	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Arochlor 1254	ND		0.010	0.0021	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Arochlor 1260	ND		0.010	0.0030	mg/Kg		12/18/14 13:20	01/06/15 14:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		45 - 135				12/18/14 13:20	01/06/15 14:07	1
DCB Decachlorobiphenyl	94		50 - 140				12/18/14 13:20	01/06/15 14:07	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCS 580-178279/2-A

Matrix: Solid

Analysis Batch: 179554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Arochlor 1016	0.100	0.107		mg/Kg		107	40 - 140		
Arochlor 1260	0.100	0.105		mg/Kg		105	60 - 130		
		LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	99		45 - 135						
DCB Decachlorobiphenyl	99		50 - 140						

Lab Sample ID: LCSD 580-178279/3-A

Matrix: Solid

Analysis Batch: 179554

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Arochlor 1016	0.100	0.108		mg/Kg		108	40 - 140		2	20
Arochlor 1260	0.100	0.106		mg/Kg		106	60 - 130		1	20
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene	100		45 - 135							
DCB Decachlorobiphenyl	98		50 - 140							

Lab Sample ID: 580-46690-2 MS

Matrix: Solid

Analysis Batch: 179554

Client Sample ID: SC-CB-35-20141211-S

Prep Type: Total/NA

Prep Batch: 178279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Arochlor 1016	ND		0.180	0.176		mg/Kg		98	40 - 140	
Arochlor 1260	0.39		0.180	0.394	F1	mg/Kg		3	60 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene	69		45 - 135							
DCB Decachlorobiphenyl	62	p	50 - 140							

Lab Sample ID: 580-46690-2 MSD

Matrix: Solid

Analysis Batch: 179554

Client Sample ID: SC-CB-35-20141211-S

Prep Type: Total/NA

Prep Batch: 178279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Arochlor 1016	ND		0.182	0.182		mg/Kg		100	40 - 140		3	20
Arochlor 1260	0.39		0.182	0.377	F1	mg/Kg		-6	60 - 130		4	20
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
Tetrachloro-m-xylene	69		45 - 135									
DCB Decachlorobiphenyl	62	p	50 - 140									

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-178188/1-A
Matrix: Solid
Analysis Batch: 178242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	5.7	mg/Kg		12/15/14 13:03	12/16/14 12:04	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		12/15/14 13:03	12/16/14 12:04	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	92		50 - 150				12/15/14 13:03	12/16/14 12:04	1

Lab Sample ID: LCS 580-178188/2-A
Matrix: Solid
Analysis Batch: 178242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	500	482		mg/Kg		96	70 - 125
Motor Oil (>C24-C36)	502	471		mg/Kg		94	64 - 127
Surrogate	%Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	86		50 - 150				

Lab Sample ID: LCSD 580-178188/3-A
Matrix: Solid
Analysis Batch: 178242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178188

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	500	459		mg/Kg		92	70 - 125	5	16
Motor Oil (>C24-C36)	502	456		mg/Kg		91	64 - 127	3	17
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	81		50 - 150						

Lab Sample ID: 580-46690-3 MS
Matrix: Solid
Analysis Batch: 178242

Client Sample ID: SC-CB-24-20141211-S
Prep Type: Total/NA
Prep Batch: 178188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	1700	Y	1000	2720		mg/Kg	☼	106	70 - 125
Motor Oil (>C24-C36)	8900	Y	1010	10600	4	mg/Kg	☼	167	64 - 127
Surrogate	%Recovery	MS Qualifier	Limits						
<i>o</i> -Terphenyl	82		50 - 150						

Lab Sample ID: 580-46690-3 MSD
Matrix: Solid
Analysis Batch: 178242

Client Sample ID: SC-CB-24-20141211-S
Prep Type: Total/NA
Prep Batch: 178188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	1700	Y	1060	2620		mg/Kg	☼	92	70 - 125	3	16
Motor Oil (>C24-C36)	8900	Y	1060	10000	4	mg/Kg	☼	103	64 - 127	6	17

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: 580-46690-3 MSD
Matrix: Solid
Analysis Batch: 178242

Client Sample ID: SC-CB-24-20141211-S
Prep Type: Total/NA
Prep Batch: 178188

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o-Terphenyl</i>	80		50 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-178763/9-A
Matrix: Water
Analysis Batch: 178888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178763

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.0010	0.00075	mg/L		12/22/14 14:22	12/23/14 13:51	1
Antimony	ND		0.00040	0.000080	mg/L		12/22/14 14:22	12/23/14 13:51	1
Beryllium	ND		0.00040	0.00010	mg/L		12/22/14 14:22	12/23/14 13:51	1
Cadmium	0.0000365	J	0.00040	0.000028	mg/L		12/22/14 14:22	12/23/14 13:51	1
Chromium	ND		0.00040	0.00027	mg/L		12/22/14 14:22	12/23/14 13:51	1
Copper	ND		0.0010	0.00011	mg/L		12/22/14 14:22	12/23/14 13:51	1
Lead	ND		0.00040	0.000034	mg/L		12/22/14 14:22	12/23/14 13:51	1
Nickel	ND		0.0030	0.00040	mg/L		12/22/14 14:22	12/23/14 13:51	1
Selenium	ND		0.0010	0.00071	mg/L		12/22/14 14:22	12/23/14 13:51	1
Silver	ND		0.00040	0.000030	mg/L		12/22/14 14:22	12/23/14 13:51	1
Thallium	ND		0.0010	0.00028	mg/L		12/22/14 14:22	12/23/14 13:51	1
Zinc	ND		0.0040	0.0019	mg/L		12/22/14 14:22	12/23/14 13:51	1

Lab Sample ID: LCS 580-178763/10-A
Matrix: Water
Analysis Batch: 178888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178763

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	0.100	0.0976		mg/L		98	85 - 115
Antimony	0.100	0.103		mg/L		103	85 - 115
Beryllium	0.100	0.0957		mg/L		96	85 - 115
Cadmium	0.100	0.103		mg/L		103	85 - 115
Chromium	0.100	0.0973		mg/L		97	85 - 115
Copper	0.100	0.0962		mg/L		96	85 - 115
Lead	0.100	0.0986		mg/L		99	85 - 115
Nickel	0.100	0.0969		mg/L		97	85 - 115
Selenium	0.100	0.102		mg/L		102	85 - 115
Silver	0.100	0.0995		mg/L		100	85 - 115
Thallium	0.100	0.0994		mg/L		99	85 - 115
Zinc	0.100	0.0965		mg/L		96	85 - 115

Lab Sample ID: LCSD 580-178763/11-A
Matrix: Water
Analysis Batch: 178888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178763

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Arsenic	0.100	0.0979		mg/L		98	85 - 115	0	20
Antimony	0.100	0.103		mg/L		103	85 - 115	0	20
Beryllium	0.100	0.0959		mg/L		96	85 - 115	0	20

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: LCSD 580-178763/11-A
Matrix: Water
Analysis Batch: 178888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178763

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Cadmium	0.100	0.102		mg/L		102	85 - 115	1	20
Chromium	0.100	0.0978		mg/L		98	85 - 115	1	20
Copper	0.100	0.0974		mg/L		97	85 - 115	1	20
Lead	0.100	0.0986		mg/L		99	85 - 115	0	20
Nickel	0.100	0.0981		mg/L		98	85 - 115	1	20
Selenium	0.100	0.103		mg/L		103	85 - 115	0	20
Silver	0.100	0.0992		mg/L		99	85 - 115	0	20
Thallium	0.100	0.0982		mg/L		98	85 - 115	1	20
Zinc	0.100	0.0971		mg/L		97	85 - 115	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 580-178190/10-A
Matrix: Water
Analysis Batch: 178257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178190

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000747	J	0.00020	0.000041	mg/L		12/15/14 13:16	12/15/14 16:07	1

Lab Sample ID: LCS 580-178190/11-A
Matrix: Water
Analysis Batch: 178257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178190

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

Lab Sample ID: LCSD 580-178190/12-A
Matrix: Water
Analysis Batch: 178257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Mercury	0.00200	0.00206		mg/L		103	85 - 115	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-179557/11-A
Matrix: Solid
Analysis Batch: 179749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179557

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.50	0.18	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Lead	ND		0.20	0.013	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Antimony	ND		0.20	0.042	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Beryllium	ND		0.20	0.035	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Cadmium	ND		0.20	0.0080	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Chromium	ND		0.20	0.11	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Copper	ND		0.40	0.098	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Nickel	ND		0.50	0.081	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Selenium	ND		0.70	0.20	mg/Kg		01/06/15 11:07	01/07/15 14:48	10

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: MB 580-179557/11-A
Matrix: Solid
Analysis Batch: 179749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.20	0.012	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Thallium	ND		0.50	0.13	mg/Kg		01/06/15 11:07	01/07/15 14:48	10
Zinc	ND		2.0	1.1	mg/Kg		01/06/15 11:07	01/07/15 14:48	10

Lab Sample ID: LCS 580-179557/12-A
Matrix: Solid
Analysis Batch: 179749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	196		mg/Kg		98	80 - 120
Lead	50.0	48.7		mg/Kg		97	80 - 120
Antimony	150	145		mg/Kg		96	80 - 120
Beryllium	5.00	4.79		mg/Kg		96	80 - 120
Cadmium	5.00	4.90		mg/Kg		98	80 - 120
Chromium	20.0	18.7		mg/Kg		94	80 - 120
Copper	25.0	23.7		mg/Kg		95	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	200	195		mg/Kg		98	80 - 120
Silver	30.0	28.3		mg/Kg		94	80 - 120
Thallium	200	189		mg/Kg		95	80 - 120
Zinc	200	194		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 580-179557/13-A
Matrix: Solid
Analysis Batch: 179749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 179557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	194		mg/Kg		97	80 - 120	1	20
Lead	50.0	48.2		mg/Kg		96	80 - 120	1	20
Antimony	150	145		mg/Kg		96	80 - 120	0	20
Beryllium	5.00	4.84		mg/Kg		97	80 - 120	1	20
Cadmium	5.00	4.87		mg/Kg		97	80 - 120	1	20
Chromium	20.0	18.8		mg/Kg		94	80 - 120	0	20
Copper	25.0	23.3		mg/Kg		93	80 - 120	2	20
Nickel	50.0	49.2		mg/Kg		98	80 - 120	0	20
Selenium	200	192		mg/Kg		96	80 - 120	2	20
Silver	30.0	28.3		mg/Kg		94	80 - 120	0	20
Thallium	200	184		mg/Kg		92	80 - 120	3	20
Zinc	200	191		mg/Kg		96	80 - 120	1	20

Lab Sample ID: 580-46690-1 MS
Matrix: Solid
Analysis Batch: 179749

Client Sample ID: SC-OWS-05-20141211-S
Prep Type: Total/NA
Prep Batch: 179557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	14		600	596		mg/Kg	✱	97	80 - 120
Lead	430		150	561		mg/Kg	✱	90	80 - 120
Antimony	9.4		450	419		mg/Kg	✱	91	80 - 120
Beryllium	0.23	J	15.0	14.5		mg/Kg	✱	95	80 - 120

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

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

Lab Sample ID: 580-46690-1 MS

Matrix: Solid

Analysis Batch: 179749

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 179557

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Cadmium	5.5		15.0	20.7		mg/Kg	☼	101	80 - 120	
Chromium	66		60.0	136		mg/Kg	☼	116	80 - 120	
Copper	740		75.0	945	4	mg/Kg	☼	267	80 - 120	
Nickel	46		150	199		mg/Kg	☼	102	80 - 120	
Selenium	1.1	J	600	586		mg/Kg	☼	97	80 - 120	
Silver	1.3		90.0	84.7		mg/Kg	☼	93	80 - 120	
Thallium	ND		600	528		mg/Kg	☼	88	80 - 120	
Zinc	2000		600	2690		mg/Kg	☼	116	80 - 120	

Lab Sample ID: 580-46690-1 MSD

Matrix: Solid

Analysis Batch: 179749

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 179557

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Arsenic	14		562	566		mg/Kg	☼	98	80 - 120	5	20	
Lead	430		140	601	F1	mg/Kg	☼	124	80 - 120	7	20	
Antimony	9.4		421	401		mg/Kg	☼	93	80 - 120	4	20	
Beryllium	0.23	J	14.0	14.2		mg/Kg	☼	99	80 - 120	3	20	
Cadmium	5.5		14.0	20.8		mg/Kg	☼	109	80 - 120	0	20	
Chromium	66		56.2	145	F1	mg/Kg	☼	140	80 - 120	7	20	
Copper	740		70.2	1040	4	mg/Kg	☼	425	80 - 120	10	20	
Nickel	46		140	199		mg/Kg	☼	109	80 - 120	0	20	
Selenium	1.1	J	562	562		mg/Kg	☼	100	80 - 120	4	20	
Silver	1.3		84.2	81.4		mg/Kg	☼	95	80 - 120	4	20	
Thallium	ND		562	498		mg/Kg	☼	89	80 - 120	6	20	
Zinc	2000		562	2920	F1	mg/Kg	☼	165	80 - 120	8	20	

Lab Sample ID: 580-46690-1 DU

Matrix: Solid

Analysis Batch: 179749

Client Sample ID: SC-OWS-05-20141211-S

Prep Type: Total/NA

Prep Batch: 179557

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Arsenic	14		14.0		mg/Kg	☼	3	20	
Lead	430		414		mg/Kg	☼	3	20	
Antimony	9.4		9.13		mg/Kg	☼	3	20	
Beryllium	0.23	J	0.212	J	mg/Kg	☼	7	20	
Cadmium	5.5		5.37		mg/Kg	☼	3	20	
Chromium	66		63.9		mg/Kg	☼	3	20	
Copper	740		728		mg/Kg	☼	2	20	
Nickel	46		44.0		mg/Kg	☼	3	20	
Selenium	1.1	J	1.19	J	mg/Kg	☼	8	20	
Silver	1.3		1.27		mg/Kg	☼	0.4	20	
Thallium	ND		ND		mg/Kg	☼	NC	20	
Zinc	2000		1930		mg/Kg	☼	3	20	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-178219/15-A
Matrix: Solid
Analysis Batch: 178288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0053	mg/Kg		12/15/14 16:10	12/16/14 11:17	1

Lab Sample ID: LCS 580-178219/16-A
Matrix: Solid
Analysis Batch: 178288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.179		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 580-178219/17-A
Matrix: Solid
Analysis Batch: 178288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.167	0.180		mg/Kg		108	80 - 120	0	20

Lab Sample ID: 580-46690-1 MS
Matrix: Solid
Analysis Batch: 178288

Client Sample ID: SC-OWS-05-20141211-S
Prep Type: Total/NA
Prep Batch: 178219

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.1		0.458	1.60		mg/Kg	☼	117	80 - 120

Lab Sample ID: 580-46690-1 MSD
Matrix: Solid
Analysis Batch: 178288

Client Sample ID: SC-OWS-05-20141211-S
Prep Type: Total/NA
Prep Batch: 178219

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	1.1		0.535	1.68		mg/Kg	☼	115	80 - 120	5	20

Lab Sample ID: 580-46690-1 DU
Matrix: Solid
Analysis Batch: 178288

Client Sample ID: SC-OWS-05-20141211-S
Prep Type: Total/NA
Prep Batch: 178219

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	1.1		1.10		mg/Kg	☼	3	20

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: MB 580-178918/1
Matrix: Water
Analysis Batch: 178918

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10	10	umhos/cm			12/23/14 20:10	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

Method: 120.1 - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCS 580-178918/2
Matrix: Water
Analysis Batch: 178918

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	500	519		umhos/cm		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-178252/1
Matrix: Water
Analysis Batch: 178252

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			12/15/14 12:57	1

Lab Sample ID: LCS 580-178252/2
Matrix: Water
Analysis Batch: 178252

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	1.84		mg/L		102	90 - 110

Lab Sample ID: LCSD 580-178252/3
Matrix: Water
Analysis Batch: 178252

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	1.84		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-46690-4 MS
Matrix: Water
Analysis Batch: 178252

Client Sample ID: SC-MH-20-20141211-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	H	1.80	1.89		mg/L		105	90 - 110

Lab Sample ID: 580-46690-4 DU
Matrix: Water
Analysis Batch: 178252

Client Sample ID: SC-MH-20-20141211-W
Prep Type: Total/NA

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

Lab Sample ID: MB 580-178256/1
Matrix: Water
Analysis Batch: 178256

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			12/15/14 12:57	1
Sulfate	ND		1.2	0.40	mg/L			12/15/14 12:57	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-178256/2
Matrix: Water
Analysis Batch: 178256

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	9.33		mg/L		104	90 - 110
Sulfate	12.0	12.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 580-178256/3
Matrix: Water
Analysis Batch: 178256

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	9.33		mg/L		104	90 - 110	0	15
Sulfate	12.0	12.5		mg/L		104	90 - 110	3	15

Lab Sample ID: 580-46690-4 MS
Matrix: Water
Analysis Batch: 178256

Client Sample ID: SC-MH-20-20141211-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.66	J	9.00	9.94		mg/L		103	90 - 110
Sulfate	0.87	J	12.0	11.8		mg/L		91	90 - 110

Lab Sample ID: 580-46690-4 DU
Matrix: Water
Analysis Batch: 178256

Client Sample ID: SC-MH-20-20141211-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	0.66	J	0.660	J	mg/L		0	10
Sulfate	0.87	J	0.860	J	mg/L		1	10

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-178703/3
Matrix: Solid
Analysis Batch: 178703

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			12/20/14 14:14	1

Lab Sample ID: LCS 580-178703/4
Matrix: Solid
Analysis Batch: 178703

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	3430		mg/Kg		120	27.8 - 170

Lab Sample ID: LCSD 580-178703/5
Matrix: Solid
Analysis Batch: 178703

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	3420		mg/Kg		120	27.8 - 170	0	35

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-46690-1

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-178255/2
Matrix: Water
Analysis Batch: 178255

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	97.9		mg/L		98	85 - 115

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

Lab Sample ID: MB 580-178556/1
Matrix: Water
Analysis Batch: 178556

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			12/18/14 19:09	1

Lab Sample ID: LCS 580-178556/2
Matrix: Water
Analysis Batch: 178556

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	26.4		mg/L		88	70.6 - 120

Lab Sample ID: 580-46690-4 DU
Matrix: Water
Analysis Batch: 178556

Client Sample ID: SC-MH-20-20141211-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	14		14.0		mg/L		0	20

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

Lab Sample ID: MB 580-178693/1
Matrix: Water
Analysis Batch: 178693

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			12/21/14 10:07	1

Lab Sample ID: LCS 580-178693/2
Matrix: Water
Analysis Batch: 178693

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	15.0	15.3		mg/L		102	85 - 115

TestAmerica Seattle

Lab Chronicle

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-OWS-05-20141211-S

Lab Sample ID: 580-46690-1

Date Collected: 12/11/14 10:18

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 30.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			178277	12/18/14 16:00	ALL	TAL SEA
Total/NA	Analysis	8270D		100	178585	12/19/14 16:49	ERB	TAL SEA
Total/NA	Prep	3550B			178279	12/18/14 13:20	ALL	TAL SEA
Total/NA	Analysis	8082		1	179554	01/06/15 14:57	ALC	TAL SEA
Total/NA	Prep	3546			178188	12/15/14 13:03	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	178242	12/16/14 13:00	JJP	TAL SEA
Total/NA	Prep	3050B			179557	01/06/15 11:06	PAB	TAL SEA
Total/NA	Analysis	6020		10	179749	01/07/15 15:03	FCW	TAL SEA
Total/NA	Prep	7471A			178219	12/15/14 16:10	PAB	TAL SEA
Total/NA	Analysis	7471A		1	178288	12/16/14 11:25	FCW	TAL SEA
Total/NA	Analysis	2540B		1	178260	12/16/14 09:54	RMB	TAL SEA
Total/NA	Analysis	9060_PSEP		1	178703	12/22/14 08:56	JLS	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	178555	12/18/14 18:36	LKC	TAL SEA

Client Sample ID: SC-CB-35-20141211-S

Lab Sample ID: 580-46690-2

Date Collected: 12/11/14 13:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 53.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			178282	12/12/14 14:25	IWH	TAL SEA
Total/NA	Analysis	8260B		1	178291	12/16/14 15:02	CJ	TAL SEA
Total/NA	Prep	3550B			178277	12/18/14 16:00	ALL	TAL SEA
Total/NA	Analysis	8270D		100	178585	12/19/14 19:20	ERB	TAL SEA
Total/NA	Prep	5035			178388	12/17/14 12:03	ERZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	178406	12/17/14 20:19	CJ	TAL SEA
Total/NA	Prep	3550B			178279	12/18/14 13:20	ALL	TAL SEA
Total/NA	Analysis	8082		1	179554	01/06/15 15:14	ALC	TAL SEA
Total/NA	Prep	3546			178188	12/15/14 13:03	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	178242	12/16/14 13:38	JJP	TAL SEA
Total/NA	Prep	3050B			179557	01/06/15 11:06	PAB	TAL SEA
Total/NA	Analysis	6020		10	179749	01/07/15 15:29	FCW	TAL SEA
Total/NA	Prep	7471A			178219	12/15/14 16:10	PAB	TAL SEA
Total/NA	Analysis	7471A		1	178288	12/16/14 11:34	FCW	TAL SEA
Total/NA	Analysis	2540B		1	178260	12/16/14 09:54	RMB	TAL SEA
Total/NA	Analysis	9060_PSEP		1	178703	12/20/14 14:14	JLS	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	178555	12/18/14 18:36	LKC	TAL SEA

Lab Chronicle

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

TestAmerica Job ID: 580-46690-1

Client Sample ID: SC-CB-24-20141211-S

Lab Sample ID: 580-46690-3

Date Collected: 12/11/14 14:00

Matrix: Solid

Date Received: 12/12/14 12:01

Percent Solids: 47.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			178282	12/12/14 14:25	IWH	TAL SEA
Total/NA	Analysis	8260B		1	178291	12/16/14 15:29	CJ	TAL SEA
Total/NA	Prep	3550B			178277	12/18/14 16:00	ALL	TAL SEA
Total/NA	Analysis	8270D		100	178585	12/19/14 20:11	ERB	TAL SEA
Total/NA	Prep	5035			178388	12/17/14 12:03	ERZ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	178406	12/17/14 20:53	CJ	TAL SEA
Total/NA	Prep	3550B			178279	12/18/14 13:20	ALL	TAL SEA
Total/NA	Analysis	8082		1	179554	01/06/15 16:03	ALC	TAL SEA
Total/NA	Prep	3546			178188	12/15/14 13:03	RBL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	178242	12/16/14 13:57	JJP	TAL SEA
Total/NA	Prep	3050B			179557	01/06/15 11:06	PAB	TAL SEA
Total/NA	Analysis	6020		10	179749	01/07/15 15:32	FCW	TAL SEA
Total/NA	Prep	7471A			178219	12/15/14 16:10	PAB	TAL SEA
Total/NA	Analysis	7471A		1	178288	12/16/14 11:37	FCW	TAL SEA
Total/NA	Analysis	2540B		1	178260	12/16/14 09:54	RMB	TAL SEA
Total/NA	Analysis	9060_PSEP		1	178703	12/20/14 14:14	JLS	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	178555	12/18/14 18:36	LKC	TAL SEA

Client Sample ID: SC-MH-20-20141211-W

Lab Sample ID: 580-46690-4

Date Collected: 12/11/14 15:00

Matrix: Water

Date Received: 12/12/14 12:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			178110	12/13/14 11:42	RBD	TAL SEA
Total/NA	Analysis	8270D		10	178374	12/17/14 22:40	ERB	TAL SEA
Total/NA	Prep	200.8			178763	12/22/14 14:22	PAB	TAL SEA
Total/NA	Analysis	200.8		1	178888	12/23/14 14:44	FCW	TAL SEA
Total/NA	Prep	245.1			178190	12/15/14 13:16	PAB	TAL SEA
Total/NA	Analysis	245.1		1	178257	12/15/14 16:33	FCW	TAL SEA
Total/NA	Analysis	120.1		1	178918	12/23/14 20:10	LKC	TAL SEA
Total/NA	Analysis	300.0		1	178252	12/15/14 13:41	JLS	TAL SEA
Total/NA	Analysis	300.0		1	178256	12/15/14 13:41	JLS	TAL SEA
Total/NA	Analysis	SM 2320B		1	178255	12/16/14 09:26	SPP	TAL SEA
Total/NA	Analysis	SM 2540D		1	178556	12/18/14 19:09	LKC	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	178335	12/15/14 19:35	LKC	TAL SEA
Dissolved	Analysis	SM 5310B		1	178693	12/21/14 10:07	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	178693	12/21/14 10:07	JLS	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: 580-46690-1

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: 580-46690-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-46690-1	SC-OWS-05-20141211-S	Solid	12/11/14 10:18	12/12/14 12:01
580-46690-2	SC-CB-35-20141211-S	Solid	12/11/14 13:00	12/12/14 12:01
580-46690-3	SC-CB-24-20141211-S	Solid	12/11/14 14:00	12/12/14 12:01
580-46690-4	SC-MH-20-20141211-W	Water	12/11/14 15:00	12/12/14 12:01

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

Tacoma, WA 98424
phone 253.922.2310 fax

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc

Client Contact: Leidos
Project Manager: Christine Nancarrow
Tel/Fax: 206.300.2144
Analysis Turnaround Time: CALENDAR DAYS WORKING DAYS
TAT if different from Below: 3 Weeks

Bothell, WA 98011 Phone: 425.398.2101
425.485.5566 FAX
Project Name: NPDES Sampling Support
Site: Lower Duwamish Waterway
P O # P010163427

Sample Identification	Sample Date	Sample Time	Sample Type (e-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A)	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)	Carrier: Courier	COC No.:	Sampler:	For Lab Use Only:	
1- SC-0W5-05-20141211-S	12/11/14	1018	C	Sed	1													1	1	1	1
2- SC-CB-35-20141211-S	12/11/14	1300	C	Sed	6													2	2	2	2
3- SC-CB-24-20141211-S	12/11/14	1400	C	Sed	6													2	2	2	2



580-46690 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other, MeOH
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for _____ Months

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

Relinquished by: Melissa Ivancevich
Company: Leidos
Date/Time: 12/11/14 1730
Received by: [Signature]
Received in Laboratory by: [Signature]
Company: THOSEA
Date/Time: 12/12/14 1201

Relinquished by: [Signature]
Company: [Signature]
Date/Time: [Signature]

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-46690-1

Login Number: 46690

List Source: TestAmerica Seattle

List Number: 1

Creator: Abello, Andrea N

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not present
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



December 31, 2014

Vista Project I.D.: 1400948

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 December 12, 2014. This sample set was analyzed on a standard turn-around time.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Martha Maier
Laboratory Director



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

Vista Work Order No. 1400948

Case Narrative

Sample Condition on Receipt:

One effluent samples and three sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The analyses of the sediment samples for PCBs were cancelled on December 16, 2014.

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 aqueous Method Blank. In the Method Blank associated with the sediment samples, OCDD was detected at 60.2 pg/g, which is above the sample quantitation limit, but below the Method 1613 Minimum Level of 100 pg/g. No other analytes were detected above the sample quantitation limit in the solid 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.

EPA Method 1668C

The effluent sample was extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The sample was 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 the 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
1400948-01	SC-OWS-05-20141211-S	11-Dec-14 10:10	12-Dec-14 08:53	Amber Glass, 250mL
1400948-02	SC-CB-35-20141211-S	11-Dec-14 13:00	12-Dec-14 08:53	Amber Glass, 250mL
1400948-03	SC-CB-24-20141211-S	11-Dec-14 14:00	12-Dec-14 08:53	Amber Glass, 250mL
1400948-04	SC-MH-20-20141211-S	11-Dec-14 15:00	12-Dec-14 08:53	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L

ANALYTICAL RESULTS

Sample ID: Method Blank **EPA Method 1613B**

Matrix: Solid	QC Batch: B4L0130	Lab Sample: B4L0130-BLK1
Sample Size: 1.00 g	Date Extracted: 23-Dec-2014 12:53	Date Analyzed: 26-Dec-14 22:50 Column: ZB-5MS Analyst: WJL

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	5.00	1.13		0.0778		IS 13C-2,3,7,8-TCDD	55.8	25 - 164	
1,2,3,7,8-PeCDD	ND	25.0	0.612		0.230		13C-1,2,3,7,8-PeCDD	84.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	25.0	1.98		0.231		13C-1,2,3,4,7,8-HxCDD	57.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	25.0	1.90		0.126		13C-1,2,3,6,7,8-HxCDD	61.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	25.0	2.09		0.173		13C-1,2,3,7,8,9-HxCDD	60.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	14.4	25.0			0.263	J	13C-1,2,3,4,6,7,8-HpCDD	58.8	23 - 140	
OCDD	60.2	50.0			0.167		13C-OCDD	41.4	17 - 157	
2,3,7,8-TCDF	ND	5.00	1.15		0.0289		13C-2,3,7,8-TCDF	44.9	24 - 169	
1,2,3,7,8-PeCDF	ND	25.0	0.792		0.254		13C-1,2,3,7,8-PeCDF	61.5	24 - 185	
2,3,4,7,8-PeCDF	ND	25.0	0.754		0.211		13C-2,3,4,7,8-PeCDF	66.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	25.0	0.587		0.154		13C-1,2,3,4,7,8-HxCDF	65.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	25.0	0.605		0.195		13C-1,2,3,6,7,8-HxCDF	61.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	25.0	0.700		0.0805		13C-2,3,4,6,7,8-HxCDF	61.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	25.0	1.19		0.195		13C-1,2,3,7,8,9-HxCDF	58.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	25.0	1.56		0.230		13C-1,2,3,4,6,7,8-HpCDF	55.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	25.0	1.36		0.211		13C-1,2,3,4,7,8,9-HpCDF	55.2	26 - 138	
OCDF	ND	50.0		5.06	0.470		13C-OCDF	44.6	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	60.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data	
TEQMinWHO2005Dioxin	0.162

TOTALS		
Total TCDD	ND	1.13
Total PeCDD	ND	0.612
Total HxCDD	ND	2.07
Total HpCDD	14.4	18.9
Total TCDF	ND	1.15
Total PeCDF	ND	2.38
Total HxCDF	ND	0.816
Total HpCDF	ND	5.44

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: B4L0130	Lab Sample: B4L0130-BS1					
Sample Size: 1.00 g	Date Extracted: 23-Dec-2014 12:53	Date Analyzed: 26-Dec-14 21:12	Column: ZB-5MS	Analyst: WJL			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	186	200	93.1	67 - 158	IS 13C-2,3,7,8-TCDD	82.0	20 - 175
1,2,3,7,8-PeCDD	906	1000	90.6	70 - 142	13C-1,2,3,7,8-PeCDD	123	21 - 227
1,2,3,4,7,8-HxCDD	953	1000	95.3	70 - 164	13C-1,2,3,4,7,8-HxCDD	67.6	21 - 193
1,2,3,6,7,8-HxCDD	994	1000	99.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	67.3	25 - 163
1,2,3,7,8,9-HxCDD	944	1000	94.4	64 - 162	13C-1,2,3,7,8,9-HxCDD	68.3	21 - 193
1,2,3,4,6,7,8-HpCDD	920	1000	92.0	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	65.4	26 - 166
OCDD	1950	2000	97.7	78 - 144	13C-OCDD	48.0	13 - 199
2,3,7,8-TCDF	179	200	89.5	75 - 158	13C-2,3,7,8-TCDF	76.0	22 - 152
1,2,3,7,8-PeCDF	924	1000	92.4	80 - 134	13C-1,2,3,7,8-PeCDF	90.0	21 - 192
2,3,4,7,8-PeCDF	930	1000	93.0	68 - 160	13C-2,3,4,7,8-PeCDF	96.9	13 - 328
1,2,3,4,7,8-HxCDF	956	1000	95.6	72 - 134	13C-1,2,3,4,7,8-HxCDF	78.0	19 - 202
1,2,3,6,7,8-HxCDF	972	1000	97.2	84 - 130	13C-1,2,3,6,7,8-HxCDF	73.6	21 - 159
2,3,4,6,7,8-HxCDF	979	1000	97.9	70 - 156	13C-2,3,4,6,7,8-HxCDF	68.5	22 - 176
1,2,3,7,8,9-HxCDF	990	1000	99.0	78 - 130	13C-1,2,3,7,8,9-HxCDF	67.7	17 - 205
1,2,3,4,6,7,8-HpCDF	953	1000	95.3	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	61.4	21 - 158
1,2,3,4,7,8,9-HpCDF	959	1000	95.9	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	59.5	20 - 186
OCDF	1960	2000	97.9	63 - 170	13C-OCDF	53.0	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	85.3	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: SC-OWS-05-20141211-S **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Sediment	Lab Sample: 1400948-01 Date Received: 12-Dec-2014 8:53
Project:	Sample Size: 3.70 g	QC Batch: B4L0130 Date Extracted: 23-Dec-2014 12:53
Date Collected: 11-Dec-2014 10:10	% Solids: 27.1	Date Analyzed : 26-Dec-14 23:39 Column: ZB-5MS Analyst: WJL 29-Dec-14 07:58 Column: DB-225 Analyst: CVG

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	49.0	4.99			0.0778		IS 13C-2,3,7,8-TCDD	74.2	25 - 164	
1,2,3,7,8-PeCDD	434	25.0			0.230		13C-1,2,3,7,8-PeCDD	88.8	25 - 181	
1,2,3,4,7,8-HxCDD	1030	25.0			0.231		13C-1,2,3,4,7,8-HxCDD	62.7	32 - 141	
1,2,3,6,7,8-HxCDD	3010	25.0			0.126		13C-1,2,3,6,7,8-HxCDD	68.9	28 - 130	
1,2,3,7,8,9-HxCDD	1980	25.0			0.173		13C-1,2,3,7,8,9-HxCDD	66.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	104000	25.0			0.263	B, E	13C-1,2,3,4,6,7,8-HpCDD	93.3	23 - 140	
OCDD	1160000	49.9			0.167	B, E	13C-OCDD	73.1	17 - 157	
2,3,7,8-TCDF	78.6	4.99			0.0289		13C-2,3,7,8-TCDF	73.2	24 - 169	
1,2,3,7,8-PeCDF	119	25.0			0.254		13C-1,2,3,7,8-PeCDF	79.2	24 - 185	
2,3,4,7,8-PeCDF	193	25.0			0.211		13C-2,3,4,7,8-PeCDF	78.7	21 - 178	
1,2,3,4,7,8-HxCDF	996	25.0			0.154		13C-1,2,3,4,7,8-HxCDF	72.0	26 - 152	
1,2,3,6,7,8-HxCDF	931	25.0			0.195		13C-1,2,3,6,7,8-HxCDF	70.0	26 - 123	
2,3,4,6,7,8-HxCDF	1180	25.0			0.0805		13C-2,3,4,6,7,8-HxCDF	63.7	28 - 136	
1,2,3,7,8,9-HxCDF	227	25.0			0.195		13C-1,2,3,7,8,9-HxCDF	67.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	25300	25.0			0.230	E	13C-1,2,3,4,6,7,8-HpCDF	73.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	1410	25.0			0.211		13C-1,2,3,4,7,8,9-HpCDF	67.4	26 - 138	
OCDF	70100	49.9			0.470	E	13C-OCDF	64.4	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	79.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data	
TEQMinWHO2005Dioxin	3160

TOTALS										
Total TCDD	288			294						
Total PeCDD	1780			1830						
Total HxCDD	21400									
Total HpCDD	193000					B				
Total TCDF	1070			1080		P				
Total PeCDF	6130			6140		P				
Total HxCDF	30700					P				
Total HpCDF	70800									

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: SC-CB-35-20141211-S **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Sediment	Lab Sample: 1400948-02 Date Received: 12-Dec-2014 8:53
Project:	Sample Size: 1.85 g	QC Batch: B4L0130 Date Extracted: 23-Dec-2014 12:53
Date Collected: 11-Dec-2014 13:00	% Solids: 54.2	Date Analyzed : 27-Dec-14 00:27 Column: ZB-5MS Analyst: WJL 29-Dec-14 08:30 Column: DB-225 Analyst: CVG

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	21.6	4.99			0.0778		IS 13C-2,3,7,8-TCDD	83.0	25 - 164	
1,2,3,7,8-PeCDD	184	24.9			0.230		13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	537	24.9			0.231		13C-1,2,3,4,7,8-HxCDD	72.5	32 - 141	
1,2,3,6,7,8-HxCDD	1150	24.9			0.126		13C-1,2,3,6,7,8-HxCDD	73.1	28 - 130	
1,2,3,7,8,9-HxCDD	1060	24.9			0.173		13C-1,2,3,7,8,9-HxCDD	72.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	39400	24.9			0.263	B, E	13C-1,2,3,4,6,7,8-HpCDD	95.5	23 - 140	
OCDD	442000	49.9			0.167	B, E	13C-OCDD	82.9	17 - 157	
2,3,7,8-TCDF	15.9	4.99			0.0289		13C-2,3,7,8-TCDF	79.5	24 - 169	
1,2,3,7,8-PeCDF	27.1	24.9			0.254		13C-1,2,3,7,8-PeCDF	86.6	24 - 185	
2,3,4,7,8-PeCDF	26.3	24.9			0.211		13C-2,3,4,7,8-PeCDF	93.3	21 - 178	
1,2,3,4,7,8-HxCDF	203	24.9			0.154		13C-1,2,3,4,7,8-HxCDF	86.1	26 - 152	
1,2,3,6,7,8-HxCDF	158	24.9			0.195		13C-1,2,3,6,7,8-HxCDF	76.4	26 - 123	
2,3,4,6,7,8-HxCDF	228	24.9			0.0805		13C-2,3,4,6,7,8-HxCDF	73.4	28 - 136	
1,2,3,7,8,9-HxCDF	39.2	24.9			0.195		13C-1,2,3,7,8,9-HxCDF	74.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	5500	24.9			0.230		13C-1,2,3,4,6,7,8-HpCDF	76.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	505	24.9			0.211		13C-1,2,3,4,7,8,9-HpCDF	74.5	26 - 138	
OCDF	35600	49.9			0.470		13C-OCDF	72.8	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	89.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin 1150

TOTALS										
Total TCDD	105			112						
Total PeCDD	656			669						
Total HxCDD	7590									
Total HpCDD	62200					B				
Total TCDF	248			276						
Total PeCDF	1200					P				
Total HxCDF	5770									
Total HpCDF	22300									

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 1613B				
Matrix: Aqueous Sample Size: 1.00 L			QC Batch: B4L0090 Date Extracted: 16-Dec-2014 8:37			Lab Sample: B4L0090-BLK1 Date Analyzed: 17-Dec-14 18:51 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	1.13		0.943		IS 13C-2,3,7,8-TCDD	80.6	25 - 164		
1,2,3,7,8-PeCDD	ND	25.0	0.445		4.51		13C-1,2,3,7,8-PeCDD	79.5	25 - 181		
1,2,3,4,7,8-HxCDD	ND	25.0	1.25		2.21		13C-1,2,3,4,7,8-HxCDD	73.2	32 - 141		
1,2,3,6,7,8-HxCDD	ND	25.0	1.26		1.93		13C-1,2,3,6,7,8-HxCDD	73.0	28 - 130		
1,2,3,7,8,9-HxCDD	ND	25.0	1.34		2.02		13C-1,2,3,7,8,9-HxCDD	73.0	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	25.0	1.49		2.98		13C-1,2,3,4,6,7,8-HpCDD	76.6	23 - 140		
OCDD	ND	50.0	4.89		3.57		13C-OCDD	49.5	17 - 157		
2,3,7,8-TCDF	ND	5.00	0.895		0.984		13C-2,3,7,8-TCDF	80.8	24 - 169		
1,2,3,7,8-PeCDF	ND	25.0	0.703		2.50		13C-1,2,3,7,8-PeCDF	79.0	24 - 185		
2,3,4,7,8-PeCDF	ND	25.0	0.740		1.73		13C-2,3,4,7,8-PeCDF	80.8	21 - 178		
1,2,3,4,7,8-HxCDF	ND	25.0	0.787		1.36		13C-1,2,3,4,7,8-HxCDF	89.8	26 - 152		
1,2,3,6,7,8-HxCDF	ND	25.0	1.03		1.56		13C-1,2,3,6,7,8-HxCDF	75.9	26 - 123		
2,3,4,6,7,8-HxCDF	ND	25.0	0.640		2.05		13C-2,3,4,6,7,8-HxCDF	73.3	28 - 136		
1,2,3,7,8,9-HxCDF	ND	25.0	0.992		1.34		13C-1,2,3,7,8,9-HxCDF	76.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	25.0	1.13		1.46		13C-1,2,3,4,6,7,8-HpCDF	75.1	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	25.0	0.627		1.75		13C-1,2,3,4,7,8,9-HpCDF	67.0	26 - 138		
OCDF	ND	50.0	2.28		2.98		13C-OCDF	57.8	17 - 157		
							CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197		
							Toxic Equivalent Quotient (TEQ) Data				
							TEQMinWHO2005Dioxin		0.00		
TOTALS											
Total TCDD	ND		1.13								
Total PeCDD	ND		0.542								
Total HxCDD	ND		2.27								
Total HpCDD	ND		1.49								
Total TCDF	ND		0.895								
Total PeCDF	ND		1.48								
Total HxCDF	ND		1.11								
Total HpCDF	ND		1.13								

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: B4L0090 Date Extracted: 16-Dec-2014 8:37		Lab Sample: B4L0090-BS1 Date Analyzed: 17-Dec-14 17:13 Column: ZB-5MS Analyst: MAS			
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	182	200	90.9	67 - 158	IS 13C-2,3,7,8-TCDD	79.7	20 - 175
1,2,3,7,8-PeCDD	970	1000	97.0	70 - 142	13C-1,2,3,7,8-PeCDD	75.8	21 - 227
1,2,3,4,7,8-HxCDD	986	1000	98.6	70 - 164	13C-1,2,3,4,7,8-HxCDD	77.0	21 - 193
1,2,3,6,7,8-HxCDD	1030	1000	103	76 - 134	13C-1,2,3,6,7,8-HxCDD	76.6	25 - 163
1,2,3,7,8,9-HxCDD	982	1000	98.2	64 - 162	13C-1,2,3,7,8,9-HxCDD	78.2	21 - 193
1,2,3,4,6,7,8-HpCDD	943	1000	94.3	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.1	26 - 166
OCDD	1990	2000	99.6	78 - 144	13C-OCDD	53.4	13 - 199
2,3,7,8-TCDF	178	200	89.0	75 - 158	13C-2,3,7,8-TCDF	79.0	22 - 152
1,2,3,7,8-PeCDF	940	1000	94.0	80 - 134	13C-1,2,3,7,8-PeCDF	75.4	21 - 192
2,3,4,7,8-PeCDF	950	1000	95.0	68 - 160	13C-2,3,4,7,8-PeCDF	76.5	13 - 328
1,2,3,4,7,8-HxCDF	989	1000	98.9	72 - 134	13C-1,2,3,4,7,8-HxCDF	86.5	19 - 202
1,2,3,6,7,8-HxCDF	964	1000	96.4	84 - 130	13C-1,2,3,6,7,8-HxCDF	79.2	21 - 159
2,3,4,6,7,8-HxCDF	997	1000	99.7	70 - 156	13C-2,3,4,6,7,8-HxCDF	73.0	22 - 176
1,2,3,7,8,9-HxCDF	953	1000	95.3	78 - 130	13C-1,2,3,7,8,9-HxCDF	79.7	17 - 205
1,2,3,4,6,7,8-HpCDF	983	1000	98.3	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	73.5	21 - 158
1,2,3,4,7,8,9-HpCDF	977	1000	97.7	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	71.4	20 - 186
OCDF	1970	2000	98.3	63 - 170	13C-OCDF	60.2	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	98.7	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: SC-MH-20-20141211-W **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Effluent	Lab Sample: 1400948-04 Date Received: 12-Dec-2014 8:53
Project:	Sample Size: 0.965 L	QC Batch: B4L0090 Date Extracted: 16-Dec-2014 8:37
Date Collected: 11-Dec-2014 15:00		Date Analyzed: 18-Dec-14 08:03 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	5.18		1.82	0.943		IS 13C-2,3,7,8-TCDD	64.4	25 - 164	
1,2,3,7,8-PeCDD	ND	25.9		12.3	4.51		13C-1,2,3,7,8-PeCDD	62.0	25 - 181	
1,2,3,4,7,8-HxCDD	42.1	25.9			2.21		13C-1,2,3,4,7,8-HxCDD	50.1	32 - 141	
1,2,3,6,7,8-HxCDD	95.9	25.9			1.93		13C-1,2,3,6,7,8-HxCDD	53.4	28 - 130	
1,2,3,7,8,9-HxCDD	79.2	25.9			2.02		13C-1,2,3,7,8,9-HxCDD	52.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	2690	25.9			2.98		13C-1,2,3,4,6,7,8-HpCDD	53.7	23 - 140	
OCDD	21800	51.8			3.57		13C-OCDD	38.1	17 - 157	
2,3,7,8-TCDF	1.98	5.18			0.984	J	13C-2,3,7,8-TCDF	65.3	24 - 169	
1,2,3,7,8-PeCDF	4.20	25.9			2.50	J	13C-1,2,3,7,8-PeCDF	60.7	24 - 185	
2,3,4,7,8-PeCDF	5.87	25.9			1.73	J	13C-2,3,4,7,8-PeCDF	62.6	21 - 178	
1,2,3,4,7,8-HxCDF	35.3	25.9			1.36		13C-1,2,3,4,7,8-HxCDF	57.8	26 - 152	
1,2,3,6,7,8-HxCDF	40.4	25.9			1.56		13C-1,2,3,6,7,8-HxCDF	52.6	26 - 123	
2,3,4,6,7,8-HxCDF	43.8	25.9			2.05		13C-2,3,4,6,7,8-HxCDF	52.8	28 - 136	
1,2,3,7,8,9-HxCDF	2.63	25.9			1.34	J	13C-1,2,3,7,8,9-HxCDF	53.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	1170	25.9			1.46		13C-1,2,3,4,6,7,8-HpCDF	53.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	59.5	25.9			1.75		13C-1,2,3,4,7,8,9-HpCDF	48.2	26 - 138	
OCDF	3460	51.8			2.98		13C-OCDF	41.4	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	82.8
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TOTALS			
Total TCDD	ND		1.82
Total PeCDD	45.2		59.9
Total HxCDD	654		
Total HpCDD	4910		
Total TCDF	18.1		26.1
Total PeCDF	192		194
Total HxCDF	1050		
Total HpCDF	2880		

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 1668C

Matrix: Aqueous	QC Batch: B4L0127	Lab Sample: B4L0127-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Dec-2014 8:05	Date Analyzed: 26-Dec-14 14:35 Column: ZB-1 Analyst: ANP

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	5.00	1.12		1.21		PCB-43/49	ND	10.0	1.26		3.38	
PCB-2	ND	5.00	1.29		1.75		PCB-44	ND	5.00	1.47		2.48	
PCB-3	ND	5.00	1.25		1.49		PCB-45	ND	5.00	1.45		1.96	
PCB-4/10	ND	20.0	0.849		5.64		PCB-46	ND	5.00	1.48		2.49	
PCB-5/8	ND	20.0	0.707		3.59		PCB-47	ND	5.00	1.22		4.42	
PCB-6	ND	10.0	0.692		3.10		PCB-48/75	ND	10.0	1.06		2.09	
PCB-7/9	ND	20.0	0.687		6.22		PCB-50	ND	5.00	1.21		1.40	
PCB-11	ND	10.0		14.2	3.86		PCB-51	ND	5.00	1.22		1.42	
PCB-12/13	ND	20.0	0.702		5.01		PCB-52/69	ND	10.0	1.10		3.64	
PCB-14	ND	10.0	0.626		3.98		PCB-53	ND	5.00	1.18		1.12	
PCB-15	ND	10.0	0.638		2.53		PCB-54	ND	5.00	0.975		1.51	
PCB-16/32	ND	10.0	0.848		2.87		PCB-55	ND	5.00	0.891		1.19	
PCB-17	ND	5.00	0.970		1.37		PCB-56/60	ND	10.0	0.910		2.19	
PCB-18	ND	5.00	1.02		2.57		PCB-57	ND	5.00	0.920		0.857	
PCB-19	ND	5.00	1.02		2.38		PCB-58	ND	5.00	0.930		1.81	
PCB-20/21/33	ND	15.0	0.634		10.3		PCB-61/70	ND	10.0	0.949		2.40	
PCB-22	ND	5.00	0.629		3.17		PCB-62	ND	5.00	1.07		1.46	
PCB-23	ND	5.00	0.634		1.35		PCB-63	ND	5.00	0.917		0.696	
PCB-24/27	ND	10.0	0.742		3.16		PCB-65	ND	5.00	1.04		0.953	
PCB-25	ND	5.00	0.619		3.34		PCB-66/76	ND	10.0	0.902		2.82	
PCB-26	ND	5.00	0.643		2.19		PCB-67	ND	5.00	0.954		1.22	
PCB-28	3.18	5.00			2.90	J	PCB-68	ND	5.00	0.930		1.24	
PCB-29	ND	5.00	0.625		1.60		PCB-73	ND	5.00	1.02		1.56	
PCB-30	ND	5.00	0.725		2.09		PCB-74	ND	5.00	0.851		1.53	
PCB-31	ND	5.00	0.585		4.29		PCB-77	ND	5.00	0.813		1.34	
PCB-34	ND	5.00	0.659		2.34		PCB-78	ND	5.00	0.903		0.990	
PCB-35	ND	5.00	0.652		1.65		PCB-79	ND	5.00	0.880		1.60	
PCB-36	ND	5.00	0.652		2.69		PCB-80	ND	5.00	0.774		1.98	
PCB-37	ND	5.00	0.645		1.92		PCB-81	ND	5.00	0.809		2.34	
PCB-38	ND	5.00	0.663		1.56		PCB-82	ND	5.00	2.65		1.69	
PCB-39	ND	5.00	0.632		2.60		PCB-83	ND	5.00	1.70		1.32	
PCB-40	ND	5.00	1.69		3.08		PCB-84/92	ND	10.0	2.36		3.38	
PCB-41/64/71/72	ND	20.0	1.05		5.57		PCB-85/116	ND	10.0	1.98		2.83	
PCB-42/59	ND	10.0	1.14		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: B4L0127	Lab Sample: B4L0127-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Dec-2014 8:05	Date Analyzed: 26-Dec-14 14:35 Column: ZB-1 Analyst: ANP

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	2.12		2.19	
PCB-88/91	ND	5.00	2.59		3.25		PCB-134/143	ND	10.0	2.16		2.40	
PCB-89	ND	5.00	2.44		1.84		PCB-135	ND	5.00	2.27		2.90	
PCB-90/101	ND	10.0		5.45	1.92		PCB-136	ND	5.00	1.63		2.89	
PCB-93	ND	5.00	2.33		1.47		PCB-137	ND	5.00	1.86		2.08	
PCB-94	ND	5.00	2.38		1.91		PCB-138/163/164	ND	15.0		6.99	2.68	
PCB-95/98/102	ND	15.0	2.17		6.58		PCB-139/149	ND	10.0		4.33	7.87	
PCB-96	ND	5.00	1.85		2.16		PCB-140	ND	5.00	2.25		3.52	
PCB-97	ND	5.00	2.07		1.24		PCB-141	ND	5.00	2.04		1.15	
PCB-99	ND	5.00	1.93		1.94		PCB-144	ND	5.00	2.16		3.22	
PCB-100	ND	5.00	2.01		2.03		PCB-145	ND	5.00	1.62		1.73	
PCB-103	ND	5.00	2.16		2.28		PCB-146/165	ND	10.0	1.73		1.91	
PCB-104	ND	5.00	1.60		0.931		PCB-147	ND	5.00	2.13		3.62	
PCB-105	ND	5.00	0.826		2.21		PCB-148	ND	5.00	2.39		1.68	
PCB-106/118	ND	10.0		3.97	2.44		PCB-150	ND	5.00	1.66		1.14	
PCB-107/109	ND	10.0	1.60		1.98		PCB-151	ND	5.00	2.18		3.59	
PCB-108/112	ND	10.0	2.01		1.86		PCB-152	ND	5.00	1.61		1.82	
PCB-110	ND	5.00	1.54		1.94		PCB-153	ND	5.00		9.67	1.83	
PCB-111/115	ND	10.0	1.47		0.768		PCB-154	ND	5.00	2.00		2.78	
PCB-113	ND	5.00	1.84		1.31		PCB-155	ND	5.00	1.56		1.45	
PCB-114	ND	5.00	0.835		1.81		PCB-156	ND	5.00	1.42		1.74	
PCB-119	ND	5.00	1.50		0.949		PCB-157	ND	5.00	1.54		1.17	
PCB-120	ND	5.00	1.45		1.01		PCB-158/160	ND	10.0	1.57		1.99	
PCB-121	ND	5.00	1.38		1.94		PCB-159	ND	5.00	1.58		1.20	
PCB-122	ND	5.00	0.915		1.84		PCB-166	ND	5.00	1.65		0.920	
PCB-123	ND	5.00	1.61		1.35		PCB-167	ND	5.00	1.46		1.65	
PCB-124	ND	5.00	1.48		1.79		PCB-168	ND	5.00	1.46		0.933	
PCB-126	ND	5.00	0.844		2.05		PCB-169	ND	5.00	1.49		1.12	
PCB-127	ND	5.00	0.848		0.808		PCB-170	ND	5.00	1.54		1.38	
PCB-128/162	ND	10.0	1.81		1.68		PCB-171	ND	5.00	1.51		1.61	
PCB-129	ND	5.00	2.19		1.11		PCB-172	ND	5.00	1.62		1.46	
PCB-130	ND	5.00	2.35		2.21		PCB-173	ND	5.00	1.71		1.49	
PCB-131	ND	5.00	2.19		1.46		PCB-174	ND	5.00	1.48		1.42	
PCB-132/161	ND	10.0	1.80		2.34		PCB-175	ND	5.00	1.66		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: B4L0127	Lab Sample: B4L0127-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Dec-2014 8:05	Date Analyzed: 26-Dec-14 14:35 Column: ZB-1 Analyst: ANP

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	5.00	1.18		2.17		Total triCB	3.18	5.00				J
PCB-177	ND	5.00	1.59		1.34		Total tetraCB	ND	5.00	1.69			
PCB-178	ND	5.00	1.72		2.25		Total pentaCB	ND	5.00		9.42		
PCB-179	ND	5.00	1.23		1.57		Total hexaCB	ND	5.00		21.0		
PCB-180	ND	5.00		5.50	0.610		Total heptaCB	ND	5.00		9.95		
PCB-181	ND	5.00	1.45		1.01		Total octaCB	ND	5.00	2.21			
PCB-182/187	ND	10.0		4.45	6.20		Total nonaCB	ND	5.00	0.806			
PCB-183	ND	5.00	1.49		3.29		DecaCB	ND	5.00	1.80			
PCB-184	ND	5.00	1.30		1.25		Total PCB	3.18	10.0				J
PCB-185	ND	5.00	1.47		1.47								
PCB-186	ND	5.00	1.26		2.43								
PCB-188	ND	5.00	1.15		1.08								
PCB-189	ND	5.00	1.04		1.49								
PCB-190	ND	5.00	1.15		1.70								
PCB-191	ND	5.00	1.18		1.96								
PCB-192	ND	5.00	1.30		1.69								
PCB-193	ND	5.00	1.20		1.46								
PCB-194	ND	5.00	0.637		1.71								
PCB-195	ND	5.00	0.662		1.47								
PCB-196/203	ND	10.0	2.09		6.35								
PCB-197	ND	5.00	1.50		1.80								
PCB-198	ND	5.00	2.17		3.78								
PCB-199	ND	5.00	2.21		4.05								
PCB-200	ND	5.00	1.58		1.75								
PCB-201	ND	5.00	1.46		1.02								
PCB-202	ND	5.00	1.55		1.55								
PCB-204	ND	5.00	1.62		1.48								
PCB-205	ND	5.00	0.562		1.53								
PCB-206	ND	5.00	0.806		1.32								
PCB-207	ND	5.00	0.477		1.51								
PCB-208	ND	5.00	0.454		1.34								
PCB-209	ND	5.00	1.80		1.86								
Total monoCB	ND	5.00	1.29										
Total diCB	ND	10.0		14.2									

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: B4L0127	Lab Sample: B4L0127-BLK1
Sample Size: 1.00 L	Date Extracted: 23-Dec-2014 8:05	Date Analyzed: 26-Dec-14 14:35 Column: ZB-1 Analyst: ANP

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	87.9	5 - 145		13C-PCB-157	99.9	10 - 145	
13C-PCB-3	84.9	5 - 145		13C-PCB-159	96.8	10 - 145	
13C-PCB-4	79.6	5 - 145		13C-PCB-167	101	10 - 145	
13C-PCB-11	83.6	5 - 145		13C-PCB-169	109	10 - 145	
13C-PCB-9	80.5	5 - 145		13C-PCB-170	89.1	10 - 145	
13C-PCB-19	75.6	5 - 145		13C-PCB-180	86.7	10 - 145	
13C-PCB-28	93.8	5 - 145		13C-PCB-188	75.9	10 - 145	
13C-PCB-32	76.1	5 - 145		13C-PCB-189	92.4	10 - 145	
13C-PCB-37	94.3	5 - 145		13C-PCB-194	97.4	10 - 145	
13C-PCB-47	81.2	5 - 145		13C-PCB-202	73.1	10 - 145	
13C-PCB-52	82.9	5 - 145		13C-PCB-206	88.7	10 - 145	
13C-PCB-54	81.8	5 - 145		13C-PCB-208	78.8	10 - 145	
13C-PCB-70	87.4	5 - 145		13C-PCB-209	91.7	10 - 145	
13C-PCB-77	102	10 - 145		CRS 13C-PCB-79	102	10 - 145	
13C-PCB-80	89.9	10 - 145		13C-PCB-178	91.2	10 - 145	
13C-PCB-81	97.6	10 - 145					
13C-PCB-95	84.9	10 - 145					
13C-PCB-97	94.1	10 - 145					
13C-PCB-101	89.8	10 - 145					
13C-PCB-104	80.9	10 - 145					
13C-PCB-105	109	10 - 145					
13C-PCB-114	103	10 - 145					
13C-PCB-118	95.1	10 - 145					
13C-PCB-123	95.3	10 - 145					
13C-PCB-126	117	10 - 145					
13C-PCB-127	110	10 - 145					
13C-PCB-138	95.9	10 - 145					
13C-PCB-141	96.4	10 - 145					
13C-PCB-153	90.2	10 - 145					
13C-PCB-155	74.4	10 - 145					
13C-PCB-156	101	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 L

QC Batch: B4L0127
Date Extracted: 23-Dec-2014 8:05

Lab Sample: B4L0127-BS1
Date Analyzed: 26-Dec-14 12:27 Column: ZB-1 Analyst: ANP

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1010	1000	101	60 - 135	IS 13C-PCB-1	74.0	15 - 145
PCB-3	1010	1000	101	60 - 135	IS 13C-PCB-3	71.7	15 - 145
PCB-4/10	4960	4000	124	60 - 135	IS 13C-PCB-4	69.1	15 - 145
PCB-15	2410	2000	120	60 - 135	IS 13C-PCB-11	76.0	15 - 145
PCB-19	1070	1000	107	60 - 135	IS 13C-PCB-9	71.3	15 - 145
PCB-37	1080	1000	108	60 - 135	IS 13C-PCB-19	65.3	15 - 145
PCB-54	1090	1000	109	60 - 135	IS 13C-PCB-28	82.7	15 - 145
PCB-77	1080	1000	108	60 - 135	IS 13C-PCB-32	67.1	15 - 145
PCB-81	1070	1000	107	60 - 135	IS 13C-PCB-37	87.8	15 - 145
PCB-104	1120	1000	112	60 - 135	IS 13C-PCB-47	77.0	15 - 145
PCB-105	1220	1000	122	60 - 135	IS 13C-PCB-52	76.1	15 - 145
PCB-106/118	2260	2000	113	60 - 135	IS 13C-PCB-54	74.9	15 - 145
PCB-114	1200	1000	120	60 - 135	IS 13C-PCB-70	87.4	15 - 145
PCB-123	1190	1000	119	60 - 135	IS 13C-PCB-77	94.5	40 - 145
PCB-126	1180	1000	118	60 - 135	IS 13C-PCB-80	87.5	40 - 145
PCB-155	1110	1000	111	60 - 135	IS 13C-PCB-81	93.2	40 - 145
PCB-156	1150	1000	115	60 - 135	IS 13C-PCB-95	81.7	40 - 145
PCB-157	1160	1000	116	60 - 135	IS 13C-PCB-97	91.9	40 - 145
PCB-167	1150	1000	115	60 - 135	IS 13C-PCB-101	86.8	40 - 145
PCB-169	1210	1000	121	60 - 135	IS 13C-PCB-104	74.5	40 - 145
PCB-188	1090	1000	109	60 - 135	IS 13C-PCB-105	106	40 - 145
PCB-189	1190	1000	119	60 - 135	IS 13C-PCB-114	101	40 - 145
PCB-202	1090	1000	109	60 - 135	IS 13C-PCB-118	93.2	40 - 145
PCB-205	1180	1000	118	60 - 135	IS 13C-PCB-123	90.5	40 - 145
PCB-206	1200	1000	120	60 - 135	IS 13C-PCB-126	111	40 - 145
PCB-208	1190	1000	119	60 - 135	IS 13C-PCB-127	106	40 - 145
PCB-209	1170	1000	117	60 - 135	IS 13C-PCB-138	94.1	40 - 145
					IS 13C-PCB-141	91.8	40 - 145
					IS 13C-PCB-153	90.3	40 - 145
					IS 13C-PCB-155	71.3	40 - 145
					IS 13C-PCB-156	96.4	40 - 145
					IS 13C-PCB-157	95.5	40 - 145
					IS 13C-PCB-159	96.5	40 - 145
					IS 13C-PCB-167	95.1	40 - 145
					IS 13C-PCB-169	92.5	40 - 145
					IS 13C-PCB-170	86.9	40 - 145
					IS 13C-PCB-180	85.8	40 - 145
					IS 13C-PCB-188	74.6	40 - 145
					IS 13C-PCB-189	86.2	40 - 145
					IS 13C-PCB-194	92.1	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B4L0127
Date Extracted: 23-Dec-2014 8:05

Lab Sample: B4L0127-BS1
Date Analyzed: 26-Dec-14 12:27 Column: ZB-1 Analyst: ANP

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	71.5	40 - 145
					IS 13C-PCB-206	82.2	40 - 145
					IS 13C-PCB-208	70.1	40 - 145
					IS 13C-PCB-209	86.9	40 - 145
					CRS 13C-PCB-79	99.8	40 - 145
					CRS 13C-PCB-178	88.8	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: SC-MH-20-20141211-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Effluent		Lab Sample:	1400948-04		Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	0.993 L		QC Batch:	B4L0127		Date Extracted:	23-Dec-2014 8:05		
Date Collected:	11-Dec-2014 15:00						Date Analyzed :	26-Dec-14 17:49		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	3.44	5.04			1.21	J	PCB-44	876	5.04			2.48	
PCB-2	1.67	5.04			1.75	J	PCB-45	96.4	5.04			1.96	
PCB-3	2.97	5.04			1.49	J	PCB-46	44.4	5.04			2.49	
PCB-4/10	32.4	20.1			5.64		PCB-47	199	5.04			4.42	
PCB-5/8	88.3	20.1			3.59		PCB-48/75	133	10.1			2.09	
PCB-6	19.4	10.1			3.10		PCB-50	ND	5.04	1.50		1.40	
PCB-7/9	7.24	20.1			6.22	J	PCB-51	34.2	5.04			1.42	
PCB-11	96.6	10.1			3.86		PCB-52/69	869	10.1			3.64	
PCB-12/13	13.8	20.1			5.01	J	PCB-53	69.9	5.04			1.12	
PCB-14	ND	10.1	7.32		3.98		PCB-54	1.21	5.04			1.51	J
PCB-15	150	10.1			2.53		PCB-55	41.4	5.04			1.19	
PCB-16/32	253	10.1			2.87		PCB-56/60	1060	10.1			2.19	
PCB-17	102	5.04			1.37		PCB-57	5.84	5.04			0.857	
PCB-18	242	5.04			2.57		PCB-58	2.43	5.04			1.81	J
PCB-19	37.6	5.04			2.38		PCB-61/70	1550	10.1			2.40	
PCB-20/21/33	331	15.1			10.3		PCB-62	ND	5.04	1.35		1.46	
PCB-22	298	5.04			3.17		PCB-63	39.4	5.04			0.696	
PCB-23	ND	5.04	0.852		1.35		PCB-65	ND	5.04	1.31		0.953	
PCB-24/27	32.8	10.1			3.16		PCB-66/76	1090	10.1			2.82	
PCB-25	41.8	5.04			3.34		PCB-67	36.5	5.04			1.22	
PCB-26	88.3	5.04			2.19		PCB-68	10.7	5.04			1.24	
PCB-28	579	5.04			2.90	B	PCB-73	ND	5.04	3.23		1.56	
PCB-29	3.33	5.04			1.60	J	PCB-74	511	5.04			1.53	
PCB-30	ND	5.04	0.915		2.09		PCB-77	315	5.04			1.34	
PCB-31	454	5.04			4.29		PCB-78	ND	5.04	1.21		0.990	
PCB-34	1.44	5.04			2.34	J	PCB-79	28.2	5.04			1.60	
PCB-35	23.7	5.04			1.65		PCB-80	ND	5.04	1.05		1.98	
PCB-36	ND	5.04	1.48		2.69		PCB-81	20.1	5.04			2.34	
PCB-37	514	5.04			1.92		PCB-82	426	5.04			1.69	
PCB-38	5.95	5.04			1.56		PCB-83	ND	5.04	3.72		1.32	
PCB-39	ND	5.04	1.44		2.60		PCB-84/92	892	10.1			3.38	
PCB-40	200	5.04			3.08		PCB-85/116	496	10.1			2.83	
PCB-41/64/71/72	856	20.1			5.57		PCB-86	8.58	5.04			2.34	
PCB-42/59	280	10.1			2.84		PCB-87/117/125	1030	15.1			3.79	
PCB-43/49	525	10.1			3.38		PCB-88/91	310	5.04			3.25	

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: SC-MH-20-20141211-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Effluent		Lab Sample:	1400948-04		Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	0.993 L		QC Batch:	B4L0127		Date Extracted:	23-Dec-2014 8:05		
Date Collected:	11-Dec-2014 15:00						Date Analyzed :	26-Dec-14 17:49		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	23.2	5.04			1.84		PCB-136	267	5.04			2.89	
PCB-90/101	2220	10.1			1.92		PCB-137	171	5.04			2.08	
PCB-93	ND	5.04	3.86		1.47		PCB-138/163/164	3360	15.1			2.68	
PCB-94	9.14	5.04			1.91		PCB-139/149	2120	10.1			7.87	
PCB-95/98/102	1450	15.1			6.58		PCB-140	18.8	5.04			3.52	
PCB-96	12.7	5.04			2.16		PCB-141	619	5.04			1.15	
PCB-97	772	5.04			1.24		PCB-144	101	5.04			3.22	
PCB-99	886	5.04			1.94		PCB-145	ND	5.04	1.91		1.73	
PCB-100	4.27	5.04			2.03	J	PCB-146/165	323	10.1			1.91	
PCB-103	7.68	5.04			2.28		PCB-147	50.3	5.04			3.62	
PCB-104	ND	5.04	2.73		0.931		PCB-148	ND	5.04	2.82		1.68	
PCB-105	1440	5.04			2.21		PCB-150	3.38	5.04			1.14	J
PCB-106/118	2980	10.1			2.44		PCB-151	456	5.04			3.59	
PCB-107/109	207	10.1			1.98		PCB-152	2.56	5.04			1.82	J
PCB-108/112	111	10.1			1.86		PCB-153	2350	5.04			1.83	
PCB-110	3120	5.04			1.94		PCB-154	21.4	5.04			2.78	
PCB-111/115	38.6	10.1			0.768		PCB-155	ND	5.04	1.84		1.45	
PCB-113	ND	5.04	3.90		1.31		PCB-156	391	5.04			1.74	
PCB-114	71.6	5.04			1.81		PCB-157	93.6	5.04			1.17	
PCB-119	33.0	5.04			0.949		PCB-158/160	399	10.1			1.99	
PCB-120	5.74	5.04			1.01		PCB-159	ND	5.04	2.70		1.20	
PCB-121	ND	5.04	2.29		1.94		PCB-166	ND	5.04		12.1	0.920	
PCB-122	38.3	5.04			1.84		PCB-167	155	5.04			1.65	
PCB-123	51.2	5.04			1.35		PCB-168	ND	5.04	2.52		0.933	
PCB-124	127	5.04			1.79		PCB-169	ND	5.04	2.92		1.12	
PCB-126	48.3	5.04			2.05		PCB-170	875	5.04			1.38	
PCB-127	ND	5.04	4.40		0.808		PCB-171	202	5.04			1.61	
PCB-128/162	623	10.1			1.68		PCB-172	144	5.04			1.46	
PCB-129	175	5.04			1.11		PCB-173	16.9	5.04			1.49	
PCB-130	220	5.04			2.21		PCB-174	712	5.04			1.42	
PCB-131	ND	5.04	3.77		1.46		PCB-175	35.2	5.04			3.15	
PCB-132/161	863	10.1			2.34		PCB-176	77.2	5.04			2.17	
PCB-133/142	71.1	10.1			2.19		PCB-177	414	5.04			1.34	
PCB-134/143	136	10.1			2.40		PCB-178	143	5.04			2.25	
PCB-135	331	5.04			2.90		PCB-179	250	5.04			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: SC-MH-20-20141211-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Effluent		Lab Sample:	1400948-04		Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	0.993 L		QC Batch:	B4L0127		Date Extracted:	23-Dec-2014 8:05		
Date Collected:	11-Dec-2014 15:00						Date Analyzed:	26-Dec-14 17:49		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	1800	5.04			0.610		Total octaCB	2150	5.04				
PCB-181	ND	5.04	1.29		1.01		Total nonaCB	496	5.04				
PCB-182/187	934	10.1			6.20		DecaCB	53.5	5.04				
PCB-183	431	5.04			3.29		Total PCB	51600	10.1				B
PCB-184	1.84	5.04			1.25	J							
PCB-185	81.0	5.04			1.47								
PCB-186	ND	5.04	1.11		2.43								
PCB-188	3.08	5.04			1.08	J							
PCB-189	33.6	5.04			1.49								
PCB-190	165	5.04			1.70								
PCB-191	33.6	5.04			1.96								
PCB-192	ND	5.04	1.15		1.69								
PCB-193	83.7	5.04			1.46								
PCB-194	475	5.04			1.71								
PCB-195	163	5.04			1.47								
PCB-196/203	637	10.1			6.35								
PCB-197	16.6	5.04			1.80								
PCB-198	21.3	5.04			3.78								
PCB-199	591	5.04			4.05								
PCB-200	59.6	5.04			1.75								
PCB-201	63.3	5.04			1.02								
PCB-202	94.1	5.04			1.55								
PCB-204	ND	5.04	2.09		1.48								
PCB-205	24.4	5.04			1.53								
PCB-206	360	5.04			1.32								
PCB-207	41.9	5.04			1.51								
PCB-208	94.3	5.04			1.34								
PCB-209	53.5	5.04			1.86								
Total monoCB	8.07	5.04											
Total diCB	407	10.1											
Total triCB	3010	5.04				B							
Total tetraCB	8890	5.04											
Total pentaCB	16800	5.04											
Total hexaCB	13300	5.04											
Total heptaCB	6430	5.04											

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: SC-MH-20-20141211-W

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Effluent	Lab Sample:	1400948-04
Project:		Sample Size:	0.993 L	Date Received:	12-Dec-2014 8:53
Date Collected:	11-Dec-2014 15:00			QC Batch:	B4L0127
				Date Analyzed:	26-Dec-14 17:49
				Column:	ZB-1
				Analyst:	MAS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	87.5	5 -145		13C-PCB-170	116	10 -145	
13C-PCB-3	88.1	5 -145		13C-PCB-180	120	10 -145	
13C-PCB-4	89.1	5 -145		13C-PCB-188	107	10 -145	
13C-PCB-11	107	5 -145		13C-PCB-189	109	10 -145	
13C-PCB-9	92.6	5 -145		13C-PCB-194	117	10 -145	
13C-PCB-19	82.0	5 -145		13C-PCB-202	106	10 -145	
13C-PCB-28	110	5 -145		13C-PCB-206	115	10 -145	
13C-PCB-32	92.5	5 -145		13C-PCB-208	107	10 -145	
13C-PCB-37	114	5 -145		13C-PCB-209	144	10 -145	
13C-PCB-47	104	5 -145		CRS 13C-PCB-79	102	10 -145	
13C-PCB-52	104	5 -145		13C-PCB-178	97.6	10 -145	
13C-PCB-54	90.4	5 -145					
13C-PCB-70	115	5 -145					
13C-PCB-77	118	10 -145					
13C-PCB-80	114	10 -145					
13C-PCB-81	120	10 -145					
13C-PCB-95	103	10 -145					
13C-PCB-97	116	10 -145					
13C-PCB-101	110	10 -145					
13C-PCB-104	95.1	10 -145					
13C-PCB-105	117	10 -145					
13C-PCB-114	118	10 -145					
13C-PCB-118	119	10 -145					
13C-PCB-123	116	10 -145					
13C-PCB-126	116	10 -145					
13C-PCB-127	121	10 -145					
13C-PCB-138	121	10 -145					
13C-PCB-141	117	10 -145					
13C-PCB-153	119	10 -145					
13C-PCB-155	95.3	10 -145					
13C-PCB-156	121	10 -145					
13C-PCB-157	121	10 -145					
13C-PCB-159	122	10 -145					
13C-PCB-167	122	10 -145					
13C-PCB-169	113	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

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
H	Recovery was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	Method Detection Limit as determined by 40 CFR 136, Appendix B.
EMPC	Estimated Maximum Possible Concentration
M	Estimated Maximum Possible Concentration (CA Region 2)
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alabama Department of Environmental Management	41610
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Michigan Department of Natural Resources	9932
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Department of Health & Human Services	06700
Oregon Laboratory Accreditation Program	4042-002
Pennsylvania Department of Environmental Protection	011
South Carolina Department of Health	87002001
Tennessee Department of Environment & Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-14-5
Virginia Department of General Services	3138
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1400948 TAT Std

Samples Arrival:	Date/Time: 12/12/14 0853	Initials: UBAB	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time: 12/12/14 1519	Initials: UBAB	Location: WR-2
			Shelf/Rack: CA / EP
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: 1.9 (uncorrected)	Time: 0859		Thermometer ID: IR-1
Temp °C: 1.9 (corrected)			

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 8064 5979 2390	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?		✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓
Na ₂ S ₂ O ₃ Preservation Documented?	NA	COC	Sample Container	None
Shipping Container	<input checked="" type="checkbox"/> Vista	Client	<input checked="" type="checkbox"/> Retain	Return Dispose

Comments:

AQ Sample SC-MH-20-20141211-W A,B,C,D Containers

Chain of Custody Anomaly/Sample Acceptance Form



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

Workorder Number: 1400948
 Date Received: 12-Dec-14 08:53
 Documented by/date: B.Benedict 12/12/2014

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

Thank you,

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

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

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

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

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

Comments: COC ID:
 SC-MH-20-20141211-S

Label ID:
 SC-MH-20-20141211-W

Client Authorization	
Proceed with Analysis: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Signature and Date: <u>MM 12/31/14</u>
Client Comments/Instructions: <u>Label ID is correct, per email.</u>	

EXTRACTION INFORMATION

Process Sheet
Workorder: **1400948**

RK

Prep Expiration: 12/11/2015
Client: Leidos

Workorder Due: 02-Jan-15 00:00

TAT: 21

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

Prep Batch: B4L0130

Prep Data Entered: 12/26/14 ES
Date and Initials

Initial Sequence: 54L0017

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400948-01	<input checked="" type="checkbox"/>	SC-OWS-05-20141211-S	12-Dec-14 08:53	WR-2 E-6	
1400948-02	<input checked="" type="checkbox"/>	SC-CB-35-20141211-S	12-Dec-14 08:53	WR-2 E-6	
1400948-03	<input checked="" type="checkbox"/>	SC-CB-24-20141211-S	12-Dec-14 08:53	WR-2 E-6	

19
Vista PM: Martha Maier

Vial Box ID: SEP

Sample Reconciled By: ES 12/23/14

Solids estimate

Batch: B4L0100

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400948-01	Percent Solids	27.08		1.00	3.69
1400948-02	Percent Solids	54.18		1.00	1.85
1400948-03	Percent Solids	41.63		1.00	2.40

PREPARATION BENCH SHEET

Matrix: Solid

B4L0130

Chemist: ESchneider

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 23-Dec-14 12:53

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C4L0100	C4L0101	C4L0101	C4L0102	RS CHEM/WIT DATE
						AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	B4L0130-BLK1	(1.00)	(1.00)	ES V6 12/23/14	ES SS 12/25/14	ES 12/25/14	ES 12/25/14	ES 12/25/14	ES 12/25/14	ES SS 12/25/14
<input type="checkbox"/>	B4L0130-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-01RE1	3.69	3.70	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-02RE1	1.85	1.85	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-03RE1	2.40	2.43	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V9</u>	NS Name <u>V13</u>	CRS Name <u>V9</u>	RS Name <u>V9</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>ES 12/23/14</u>
PCDD/F <u>1442704, 10µl</u>	PCDD/F <u>13L1101, 10µl</u>	PCDD/F <u>1442705, 10µl</u>	PCDD/F <u>1442706, 10µl</u>	Start Date/Time	SOLV: <u>TOL</u>	Check In: <u>↓</u>
PCB _____	PCB _____	PCB _____	PCB _____	<u>12/23/14 15:30</u>	Other <u>N/A</u>	Chemist/Date: <u>↓</u>
PAH _____	PAH _____	PAH _____	PAH _____	Stop Date/Time	Final Volume(s) <u>20µl</u>	Balance ID: <u>HRMS-2</u>
_____	_____	_____	_____	<u>12/24/14 07:55</u>	<u>C14</u>	

Comments:

Process Sheet
Workorder: **1400948**

Prep Expiration: 12/11/2015
Client: Leidos

Workorder Due: 02-Jan-15 00:00

TAT: 21

Method: **1613 Full List**
Matrix: **Aqueous**
Client Matrix: Effluent
Also run: **Percent Solids**

Prep Batch: B4L0090

Prep Data Entered: 12/17/14 BMS
Date and Initials

Initial Sequence: 5420034

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400948-04 ^{v/f}	<input type="checkbox"/>	SC-MH-20-20141211-S "SC-MH-20-20141211-w"	12-Dec-14 08:53	WR-2 C-4	

Vista PM: Martha Maier

Vial Box ID: malcena

Sample Reconciled By: B Smith 12/16/14

PREPARATION BENCH SHEET

Matrix: Aqueous
Method: 1613 Full List

B4L0090

Chemist: B. Smith
Prep Date/Time: 16-Dec-14 08:37

Prepared using: HRMS - SPE Extraction

C	VISTA Sample ID	Bottle + Sample (mL)	Bottle Only (mL)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	NA	C4L0068	C4L0068	C4L0069	RS CHEM/WIT DATE
							AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	1400948-04	1463.53	498.84	0.96469	BMS 12/16/14	M.T. 12/17/14	NA	M.T. 12/17/14	M.T. 12/17/14	M.T. 12/17/14	M.T. 12/17/14

IS Name <u>V9</u>	NS Name <u>V13</u>	CRS Name <u>V9</u>	RS Name <u>V9</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>BMS 12/16/14</u>
PCDD/F <u>14H2704, 10µL</u>	PCDD/F <u>13L110, 10µL</u>	PCDD/F <u>14H2705, 10µL</u>	PCDD/F <u>14H2706, 10µL</u>	Start Date/Time <u>12/16/14 16:52</u>	SOLV: <u>Tol</u>	Check In: <u>empty</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>12/17/14 9:00</u>	Other <u>SPE</u>	Balance ID: <u>HEMS-4</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20µL</u>	<u>G4</u>	

Comments:

PREPARATION BENCH SHEET

B4L0090

Chemist: B. Smith

Prep Date/Time: 16-Dec-14 08:37

Prepared using: HRMS - SPE Extraction

C	VISTA Sample ID	Bottle + Sample (mL)	Bottle Only (mL)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	NA	C4L0068	C4L0068	C4L0069	RS CHEM/WIT DATE
							AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	B4L0090-BLK1	MA	MA	(1.000)	Bms BR 12/16/14	M.T. 12/17/14	NA	M.T. 12/17/14	M.T. 12/17/14	M.T. 12/17/14	M.T. 12/17/14
<input type="checkbox"/>	B4L0090-BS1	↓	↓	↓							
<input type="checkbox"/>	1400915-01	1509.84	503.26	1.00658							
<input type="checkbox"/>	1400925-01	1550.86	505.62	1.04524							
<input type="checkbox"/>	1400925-02	1548.53	506.28	1.04225							
<input type="checkbox"/>	1400925-03	1555.63	503.48	1.05215							
<input type="checkbox"/>	1400925-04	1550.76	503.00	1.04776							
<input type="checkbox"/>	1400928-01	1535.60	499.65	1.03595							
<input type="checkbox"/>	1400930-01	1542.17	500.64	1.04153							
<input type="checkbox"/>	1400931-01	1529.92	500.02	1.0299							
<input type="checkbox"/>	1400932-01	1495.67	500.57	0.9951							
<input type="checkbox"/>	1400933-01	1521.98	500.71	1.02127							
<input type="checkbox"/>	1400934-01	1504.91	496.26	1.00865							
<input type="checkbox"/>	1400934-02	1515.15	499.93	1.01607							
<input type="checkbox"/>	1400945-01	1528.51	501.15	1.02736							
<input type="checkbox"/>	1400946-01	1524.87	499.84	1.02503							

IS Name <u>V9</u>	NS Name <u>V3</u>	CRS Name <u>V9</u>	RS Name <u>V9</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>Bms 12/16/14</u>
PCDD/F <u>14H2704, 10ul</u>	PCDD/F <u>13L1101, 10ul</u>	PCDD/F <u>14H2705, 10</u>	PCDD/F <u>14H2706, 10ul</u>	Start Date/Time <u>12/16/14 16:52</u>	SOLV: <u>Tol</u>	Chemist/Date: <u>Bms 12/16/14</u>
PCB	PCB	PCB	PCB	Other <u>SPE</u>	Final Volume(s) <u>20ul</u>	Check In: <u>empty</u>
PAH	PAH	PAH	PAH	Stop Date/Time <u>12/17/14 9:00</u>	<u>Gm</u>	Chemist/Date: <u>empty</u>
						Balance ID: <u>HRMS-4</u>

Comments:

Process Sheet
Workorder: **1400948**

Prep Expiration: 12/11/2015
Client: Leidos

Workorder Due: 02-Jan-15 00:00
TAT: 21

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

Prep Batch: B4L0127

Prep Data Entered: M.T. 12/24/14
Date and Initials

Initial Sequence: 54L0046

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400948-04 'C'	<input checked="" type="checkbox"/>	SC-MH-20-20141211-S	12-Dec-14 08:53	WR-2 C-4	

Vista PM: Martha Maier

Vial Box ID: Grace

Sample Reconciled By: M.T. 12/23/14

Analyst: MJT

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

INST HRMS-4

Date/Time IN: 12/23/14 9:00
 Date/Time OUT: 12/24/14 9:00
 9:45

Pan #	Sample ID	Source ID	SampType	Initial and Date: MJT 12/23/14			%Solids RawVal	MJT 12/23/14			
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)		pH Before	pH After	Acid Added	Cl-
	1400934-01RE1		Sample	1.31	8.02	1.31		6	3	10	0
	1400934-02RE1		Sample	1.31	12.41	1.32		7	3	10	0
	1400948-04RE1		Sample	1.30	9.69	1.30		5	3	10	0
	1400949-01		Sample	1.30	11.49	1.31		7	3	10	0
	1400949-02		Sample	1.32	7.34	1.32		7	3	10	0
	1400949-03		Sample	1.30	6.41	1.31		7	3	20	0
	1400949-04		Sample	1.31	10.00	1.32		7	3	10	0
	1400949-05		Sample	1.31	12.75	1.31		6	3	10	0
	1400958-01		Sample	1.31 1.32	10.35	1.33		6	3	10	0
	1400958-02		Sample	1.31	9.27	1.31		6	3	10	0
	B4L0127-MB		QC	<hr/>				5	3	0	0
	B4L0127-OPR		QC	<hr/>				5	3	10	0

(A) Acid was added in drops. MJT 12/23/14

Analyst: MJT

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

12/23/14 9:45 12/24/14 9:00

INST HRMS-4

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	MJT 12/23/14			Cl-
				Wet Pan and Sample Weight (g)	MJT 12/23/14				MJT 12/24/14	pH Before	pH After	
	1400934-01RE1		Sample	1.3100	8.0200	1.3100	0.0000	0.00	6	3	10	0
	1400934-02RE1		Sample	1.3100	12.4100	1.3200	0.0100	0.09	7	3	10	0
	1400948-04RE1		Sample	1.3000	9.6900	1.3000	0.0000	0.00	5	3	10	0
	1400949-01		Sample	1.3000	11.4900	1.3100	0.0100	0.10	7	3	10	0
	1400949-02		Sample	1.3200	7.3400	1.3200	0.0000	0.00	7	3	10	0
	1400949-03		Sample	1.3000	6.4100	1.3100	0.0100	0.20	7	3	20	0
	1400949-04		Sample	1.3100	10.0000	1.3200	0.0100	0.12	7	3	10	0
	1400949-05		Sample	1.3100	12.7500	1.3100	0.0000	0.00	6	3	10	0
	1400958-01		Sample	1.3100	10.3500	1.3300	0.0200	0.22	6	3	10	0
	1400958-02		Sample	1.3100	9.2700	1.3100	0.0000	0.00	6	3	10	0
	B4L0127-MB		QC						5	3	10	0
	B4L0127-OPR		QC						5	3	10	0

PREPARATION BENCH SHEET

Matrix: Aqueous
 Method: 1668A Full List
 Method: 1668C Full List

B4L0127

Chemist: M.T
 Prep Date/Time: 23-Dec-14 08:05

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	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B4L0127-BLK1	NA 1	NA	(1.000)	M.T DR 12/23/14	M.T 12/23/14	NA	M.T 12/23/14	NA	NA	M.T 12/23/14
<input type="checkbox"/>	B4L0127-BS	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400934-01	781.61	282.80	0.49881	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400934-02	776.18	284.17	0.49201	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-04	1492.20	499.16	0.99304	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400949-01	1508.94	497.90	1.0104	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400949-02	1514.44	498.08	1.01636	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400949-03	1503.38	498.28	1.00510	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400949-04	1513.53	498.17	1.01539	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400949-05	1511.64	498.75	1.01289	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400958-01	1520.48	501.89	1.01859	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400958-02	1526.00	502.00	1.02400	↓	↓	↓	↓	↓	↓	↓

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: <u>SEFUN</u> SOX SDS	Check Out:
PCDD/F <u>1</u>	PCDD/F <u>1</u>	PCDD/F <u>1</u>	PCDD/F <u>1</u>	Start Date/Time <u>12/23/14</u>	SOLV: <u>DCM</u>	Chemist/Date: <u>M.T 12/23/14</u>
PCB <u>14A3001, 10ul</u>	PCB <u>13I2503, 10ul</u>	PCB <u>14A3002, 10ul</u>	PCB <u>14A3003, 10ul</u>	Stop Date/Time <u>12/23/14</u>	Other <u>NA</u>	Check In: <u>Empty</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>20ul</u>		Chemist/Date: <u>M.T 12/23/14</u>
				<u>NA</u>	<u>C9</u>	Balance ID: <u>HRMS-4</u>

Comments: (A) Sample ran through Sodium Sulfate twice due to presence of water M.T 12/23/14
 (B) Sample approached dryness @ while Rotovap @ F.V. M.T 12/24/14


SAMPLE DATA

EPA Method 1613

Client ID: Method Blank
Lab ID: B4L0130-BLK1

Filename: 141226D2 S:4 Acq:26-DEC-14 22:50:17
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

ConCal: ST141226D2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.18	NotFη	*	*		325	2.5	1.13	Total Tetra-Dioxins	*	*		325	1.13
1,2,3,7,8-PeCDD	*	* n	0.92	NotFη	*	*		349	2.5	0.612	Total Penta-Dioxins	*	*		349	0.612
1,2,3,4,7,8-HxCDD	*	* n	1.09	NotFη	*	*		554	2.5	1.98	Total Hexa-Dioxins	*	*		575	2.07
1,2,3,6,7,8-HxCDD	*	* n	1.07	NotFη	*	*		554	2.5	1.90	Total Hepta-Dioxins	14.4	18.9	*	*	
1,2,3,7,8,9-HxCDD	*	* n	0.93	NotFη	*	*		554	2.5	2.09	Total Tetra-Furans	*	*		403	1.15
1,2,3,4,6,7,8-HpCDD	7.64e+04	1.04 y	1.12	38:51	1.000	14.370	*	*	2.5	*	Total Penta-Furans	0.0000	0.0000		1100	2.38
OCDD	2.33e+05	0.94 y	0.95	42:05	1.000	60.177	*	*	2.5	*	Total Hexa-Furans	*	*		575	0.816
											Total Hepta-Furans	*	5.44		*	*
2,3,7,8-TCDF	*	* n	1.08	NotFη	*	*		403	2.5	1.15						
1,2,3,7,8-PeCDF	*	* n	1.09	NotFη	*	*		358	2.5	0.792						
2,3,4,7,8-PeCDF	*	* n	1.04	NotFη	*	*		358	2.5	0.754						
1,2,3,4,7,8-HxCDF	*	* n	1.39	NotFη	*	*		520	2.5	0.587						
1,2,3,6,7,8-HxCDF	*	* n	1.26	NotFη	*	*		520	2.5	0.605						
2,3,4,6,7,8-HxCDF	*	* n	1.30	NotFη	*	*		520	2.5	0.700						
1,2,3,7,8,9-HxCDF	*	* n	1.19	NotFη	*	*		520	2.5	1.19						
1,2,3,4,6,7,8-HpCDF	*	* n	1.62	NotFη	*	*		725	2.5	1.56						
1,2,3,4,7,8,9-HpCDF	*	* n	1.53	NotFη	*	*		622	2.5	1.36						
OCDF	2.73e+04	0.68 n	1.10	42:19	1.000	5.0563	*	*	2.5	*						
IS	13C-2,3,7,8-TCDD	8.98e+06	0.81 y	1.07	26:57	1.023	1115.6				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	1.57e+07	0.62 y	1.24	31:37	1.200	1687.1				55.8					
IS	13C-1,2,3,4,7,8-HxCDD	1.05e+07	1.26 y	0.72	34:56	1.014	1146.2				84.4					
IS	13C-1,2,3,6,7,8-HxCDD	1.14e+07	1.24 y	0.74	35:02	1.017	1234.0				57.3					
IS	13C-1,2,3,7,8,9-HxCDD	1.31e+07	1.22 y	0.86	35:20	1.025	1211.9				61.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	9.53e+06	1.03 y	0.64	38:50	1.127	1175.3				60.6					
IS	13C-OCDD	1.63e+07	0.88 y	0.78	42:05	1.221	1655.6				58.8					
IS	13C-2,3,7,8-TCDF	1.24e+07	0.79 y	0.92	26:09	0.992	897.72				41.4					
IS	13C-1,2,3,7,8-PeCDF	1.74e+07	1.58 y	0.95	30:25	1.154	1230.6				44.9					
IS	13C-2,3,4,7,8-PeCDF	1.92e+07	1.62 y	0.97	31:20	1.189	1328.3				61.5					
IS	13C-1,2,3,4,7,8-HxCDF	1.63e+07	0.51 y	0.99	34:03	0.988	1307.3				66.4					
IS	13C-1,2,3,6,7,8-HxCDF	1.70e+07	0.52 y	1.10	34:10	0.992	1228.3				65.4					
IS	13C-2,3,4,6,7,8-HxCDF	1.59e+07	0.53 y	1.03	34:46	1.009	1221.7				61.4					
IS	13C-1,2,3,7,8,9-HxCDF	1.26e+07	0.51 y	0.86	35:44	1.037	1167.0				61.1					
IS	13C-1,2,3,4,6,7,8-HpCDF	9.96e+06	0.44 y	0.71	37:31	1.089	1108.1				58.4					
IS	13C-1,2,3,4,7,8,9-HpCDF	9.84e+06	0.44 y	0.71	39:23	1.143	1103.1				55.4					
IS	13C-OCDF	1.96e+07	0.91 y	0.87	42:19	1.228	1782.3				55.2					
C/Up	37Cl-2,3,7,8-TCDD	4.38e+06		1.21	26:58	1.024	482.14				60.3					
RS/RT	13C-1,2,3,4-TCDD	1.50e+07	0.81 y	1.00	26:21	*	2000.0					Integrations	Reviewed			
RS	13C-1,2,3,4-TCDF	2.98e+07	0.78 y	1.00	24:49	*	2000.0				by	by				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.52e+07	0.51 y	1.00	34:28	*	2000.0				Analyst: 	Analyst: C7				
											Date: 12/27/17	Date: 12/29/17				

Totals class: HpCDD EMPC

Entry #: 25

Run: 9 File: 141226D2 S: 4 I: 1 F: 4
Acquired: 26-DEC-14 22:50:17 Processed: 27-DEC-14 13:10:47

Total Concentration: 18.900

Unnamed Concentration: 4.530

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:56	1.577e+04	1.180e+04	1.34	n	2.407e+04	4.5297
38:51	3.897e+04	3.740e+04	1.04	y	7.638e+04	14.370 1,2,3,4,6,7,8-HpCDD

Totals class: HpCDF EMPC

Entry #: 35

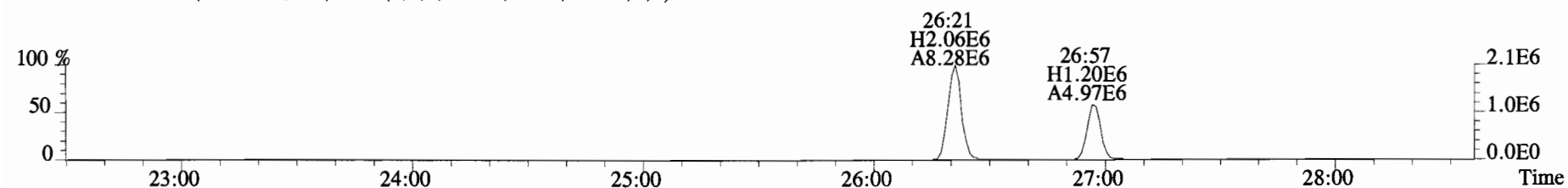
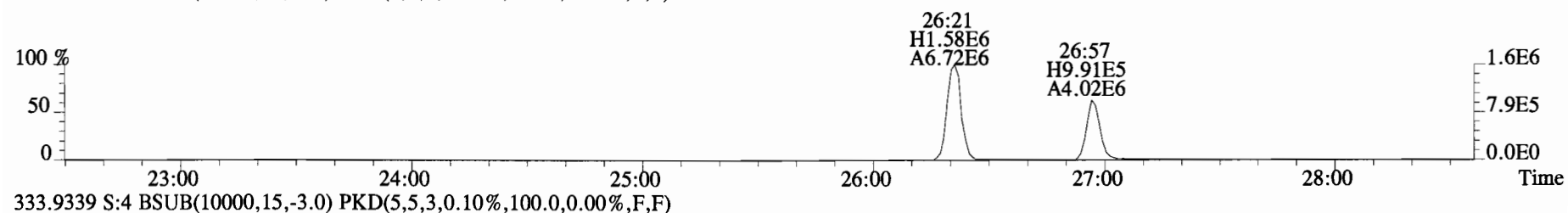
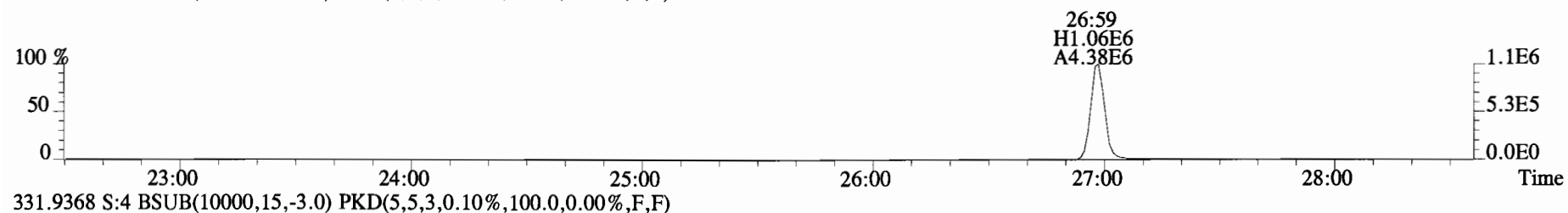
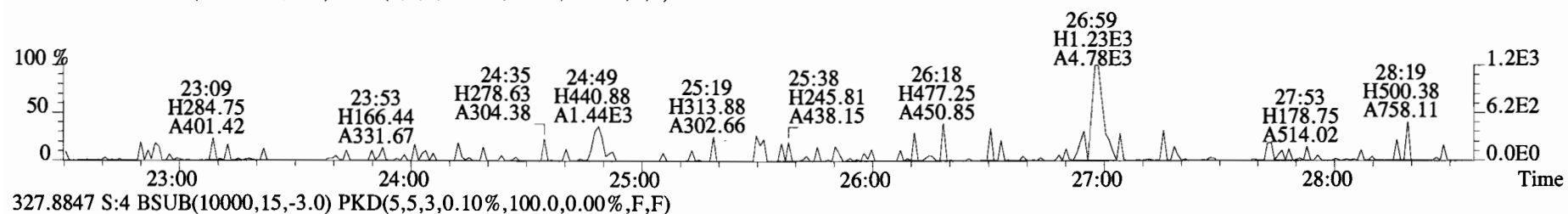
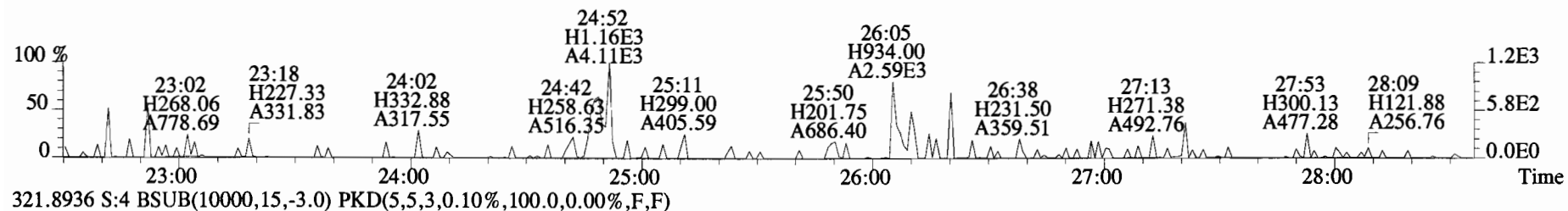
Run: 9 File: 141226D2 S: 4 I: 1 F: 4
Acquired: 26-DEC-14 22:50:17 Processed: 27-DEC-14 13:10:47

Total Concentration: 5.4381

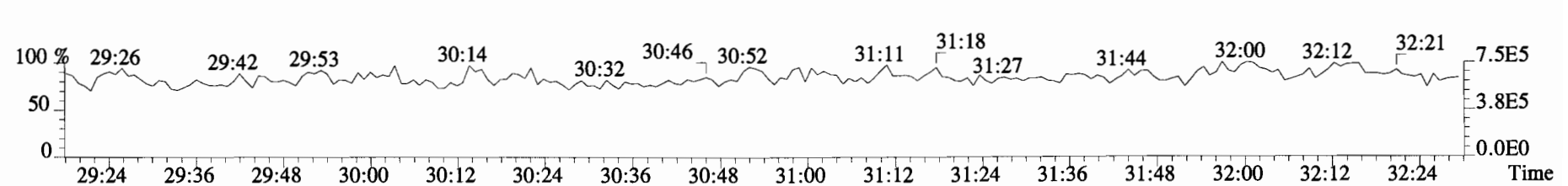
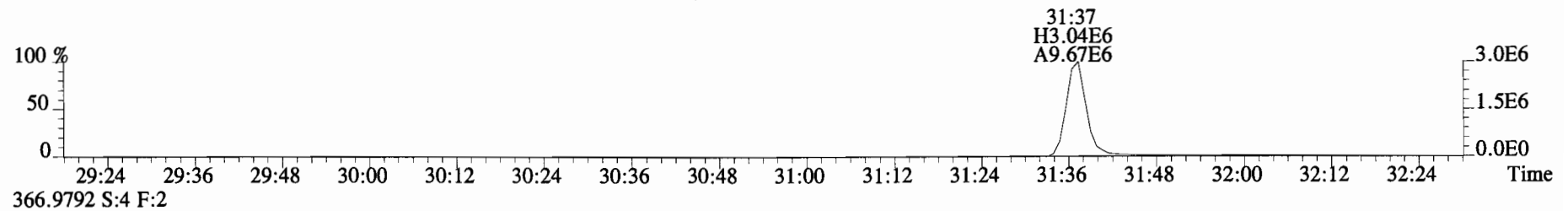
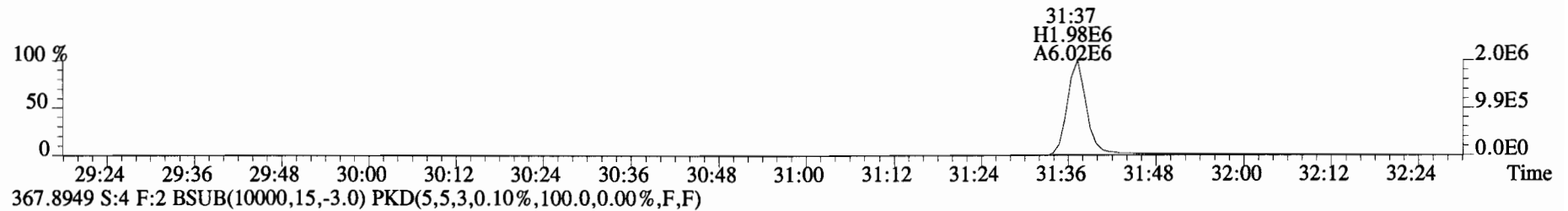
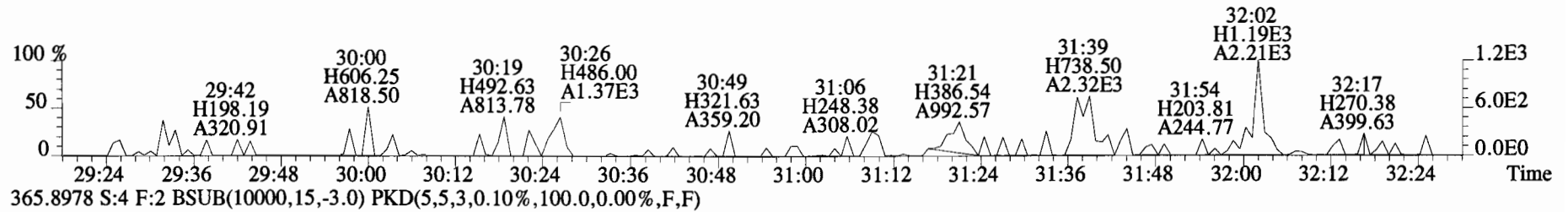
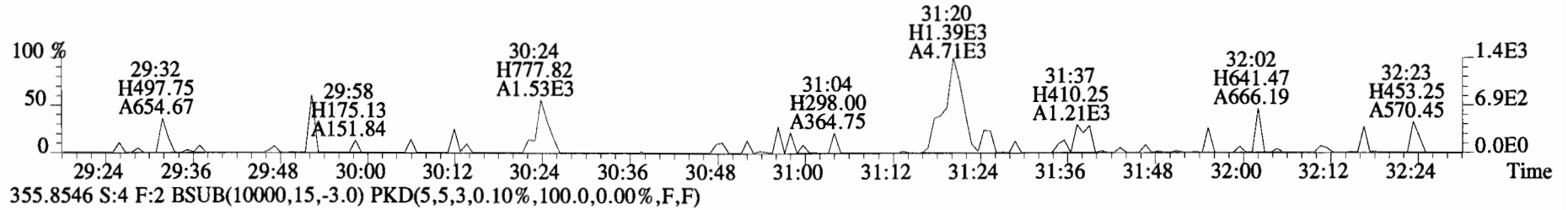
Unnamed Concentration: *

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
38:10	2.562e+04	2.073e+04	1.24 n	4.229e+04	5.4381	1,2,3,4,6,7,8-HpCDF

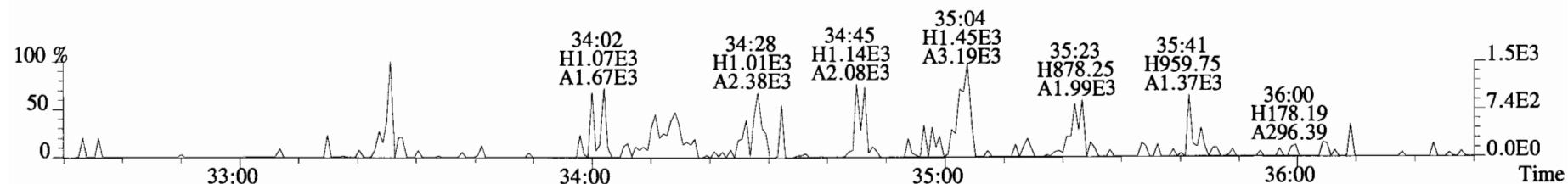
File:141226D2 #1-551 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



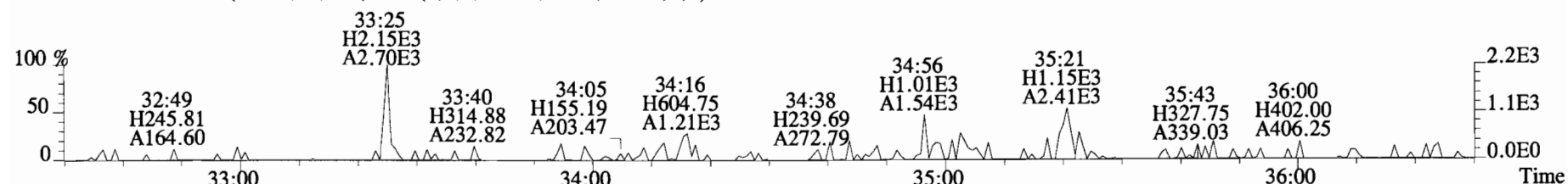
File:141226D2 #1-256 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



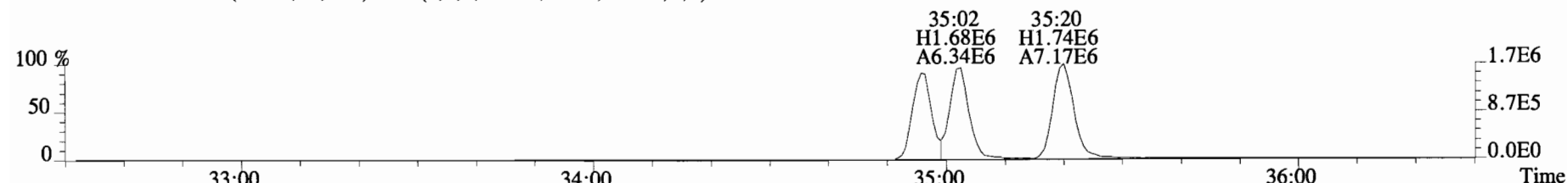
File:141226D2 #1-385 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



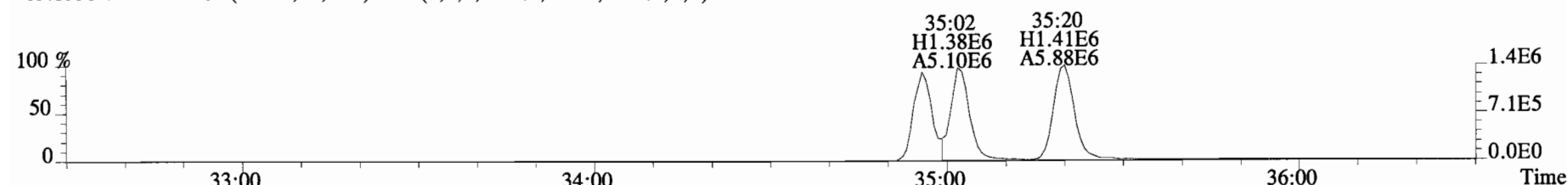
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



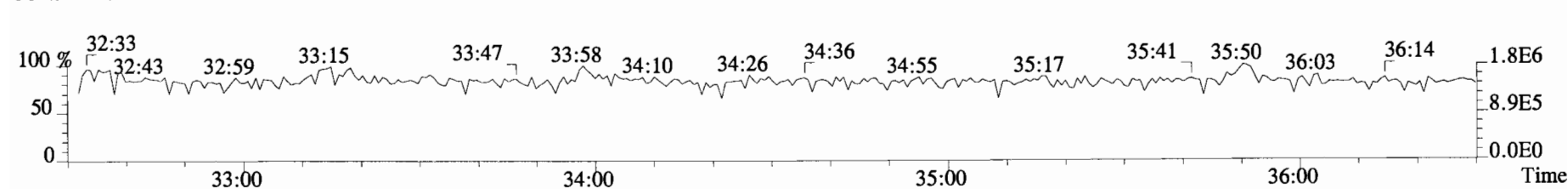
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



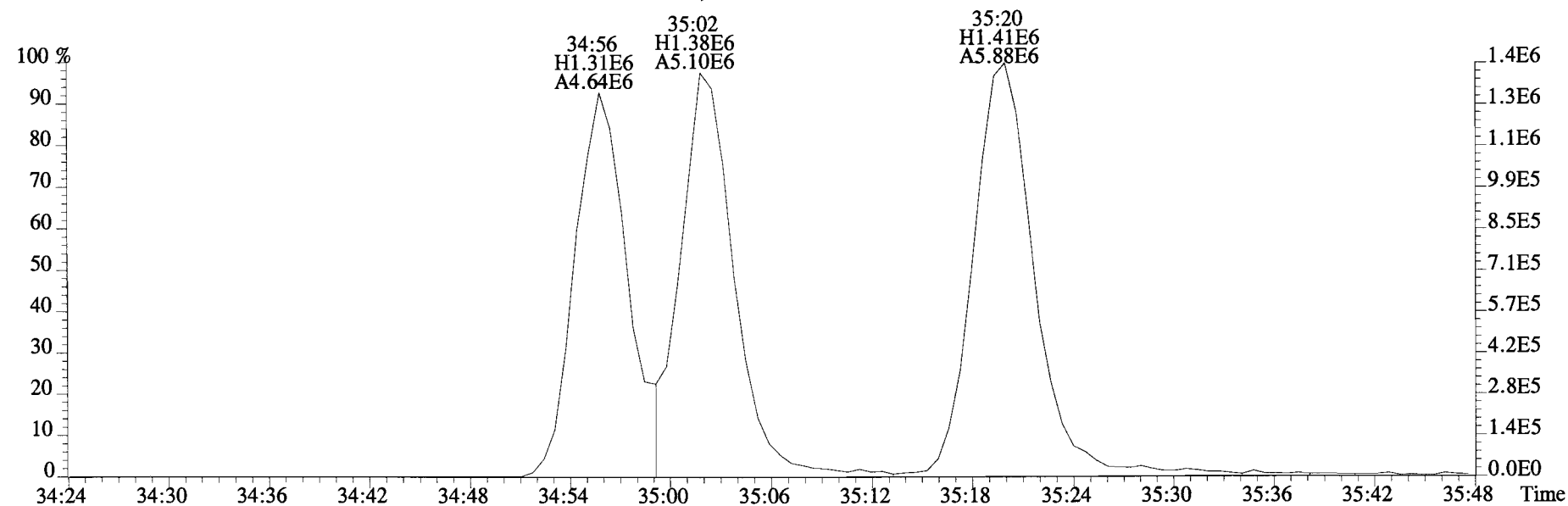
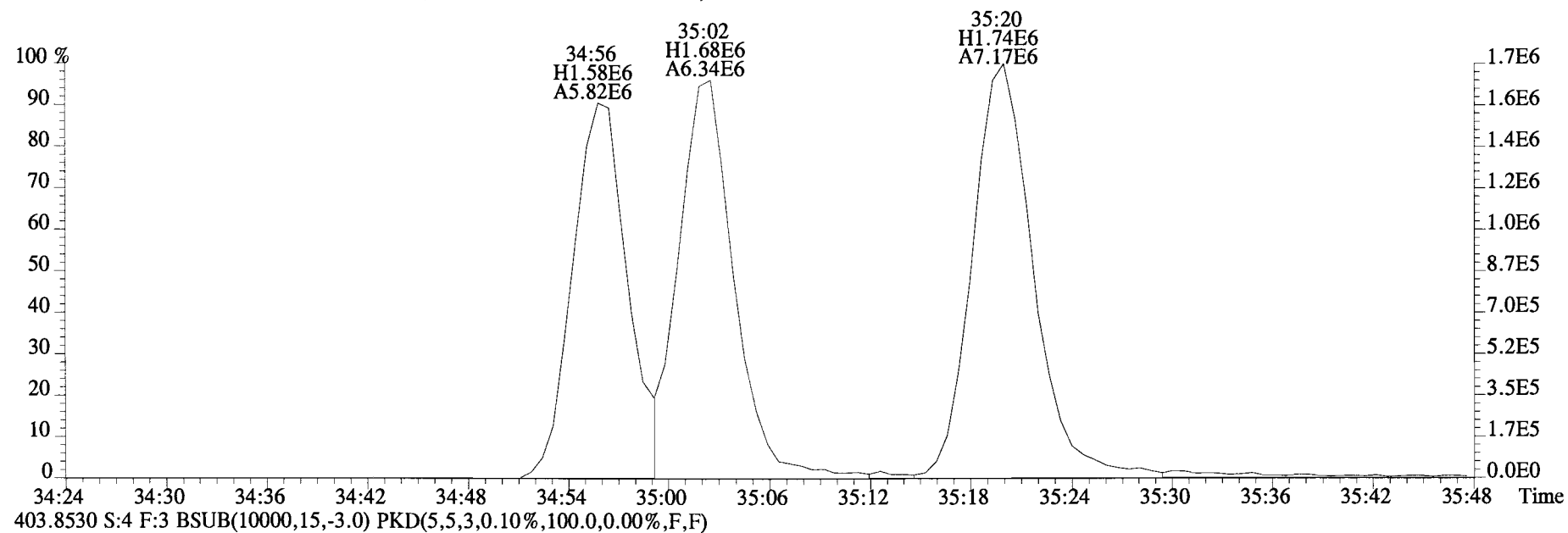
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



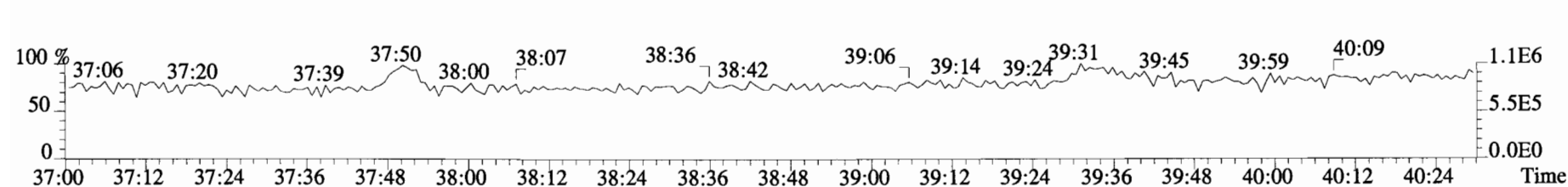
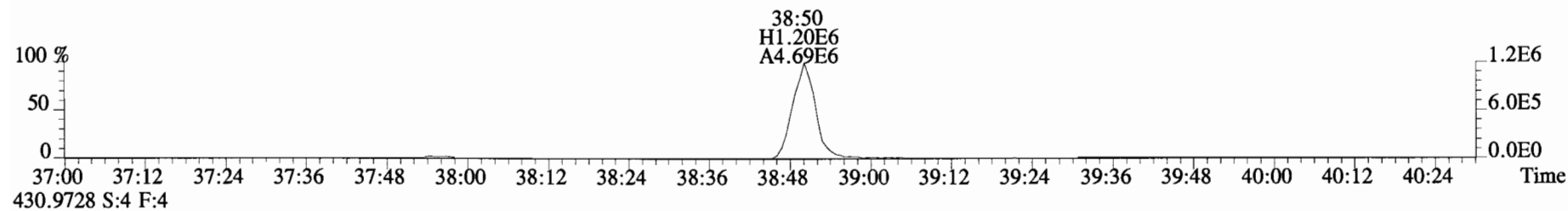
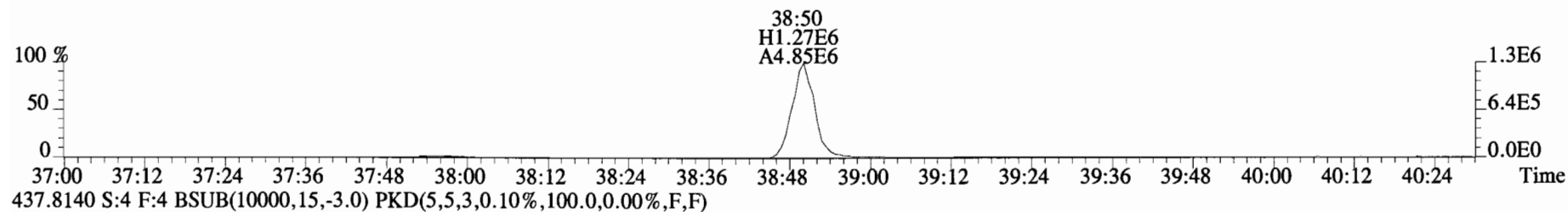
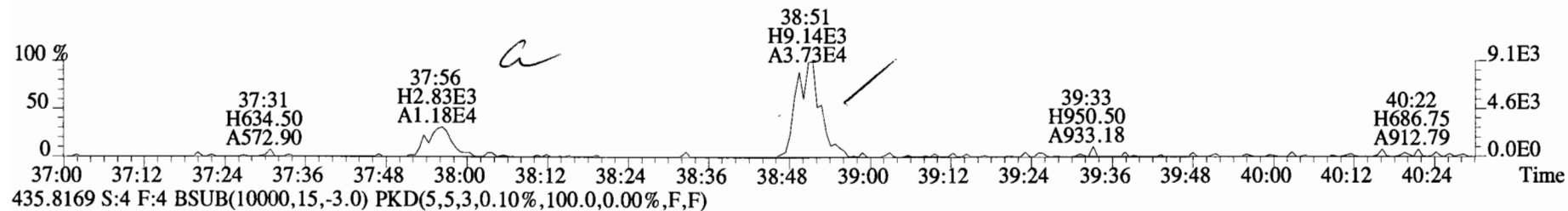
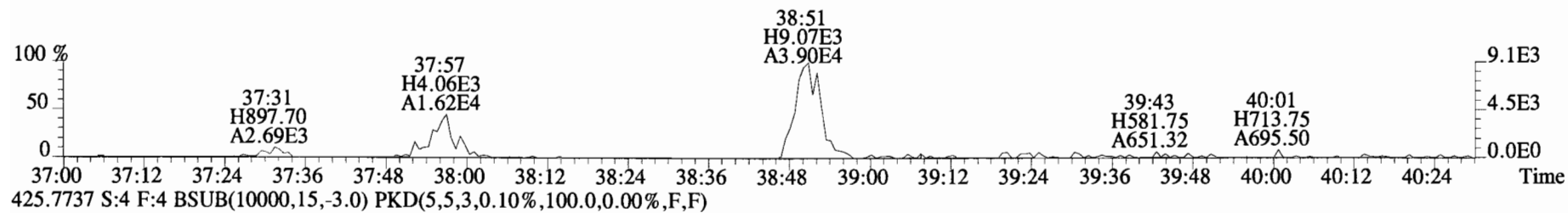
380.9760 S:4 F:3



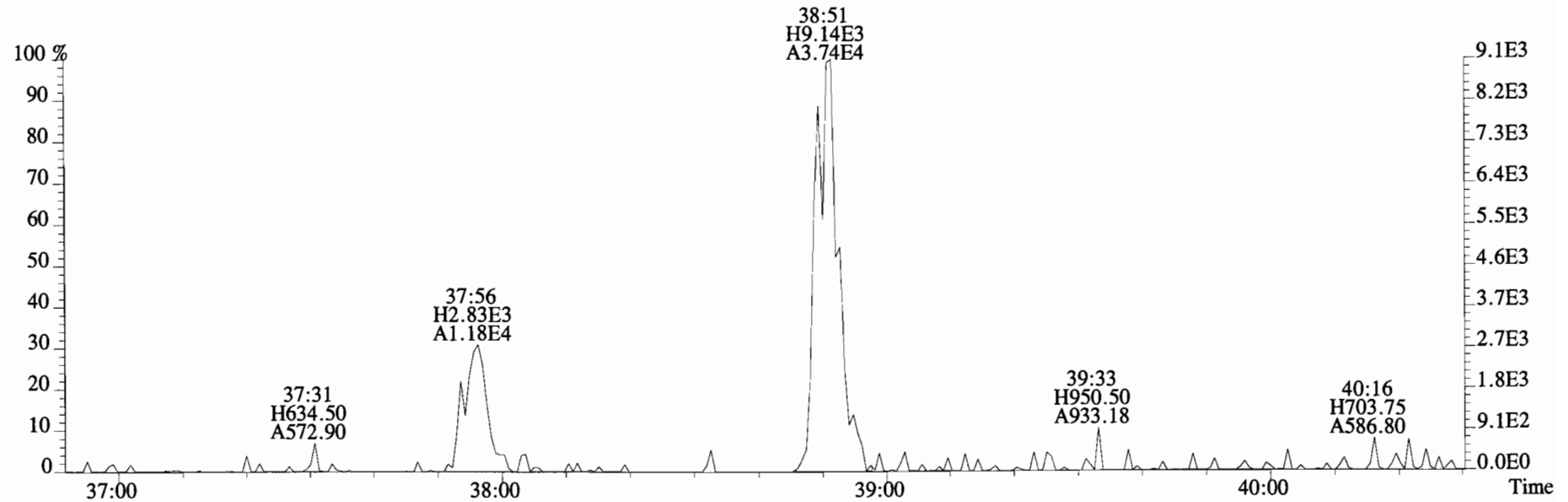
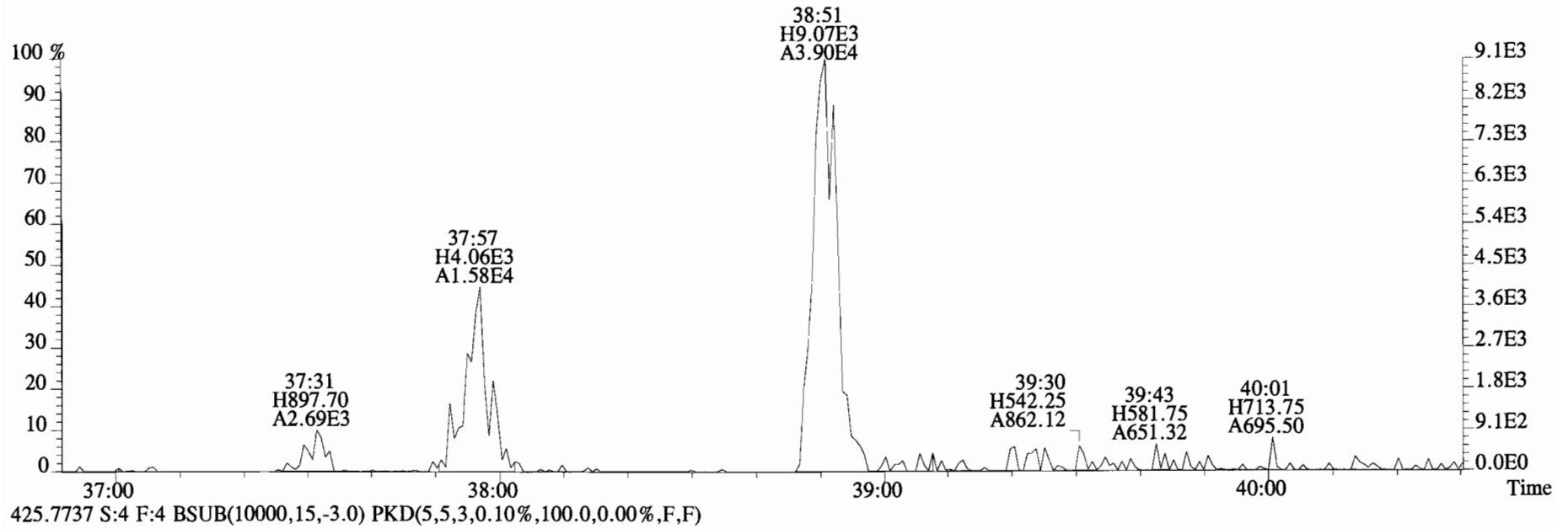
File:141226D2 #1-385 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



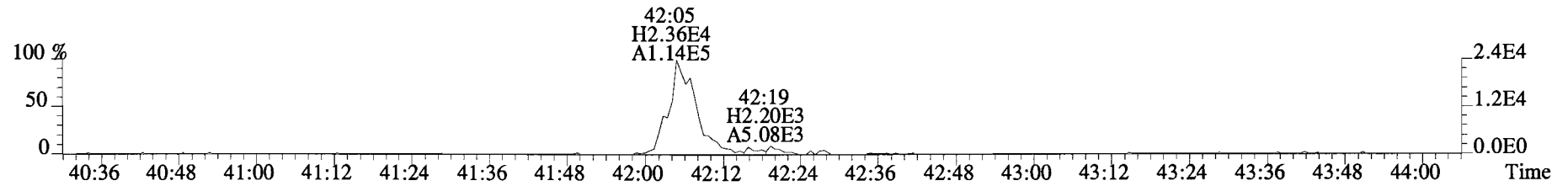
File:141226D2 #1-326 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



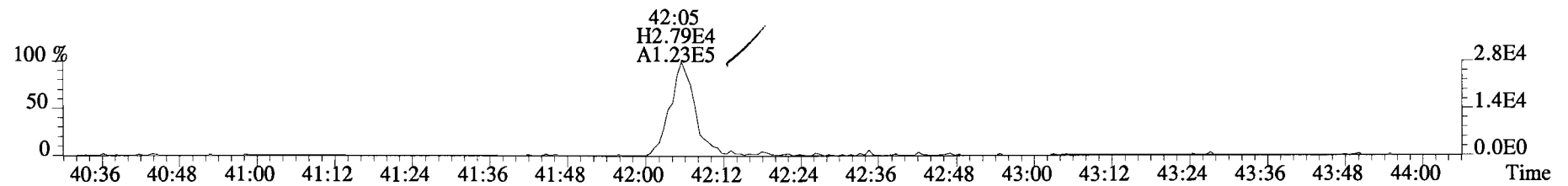
File:141226D2 #1-326 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



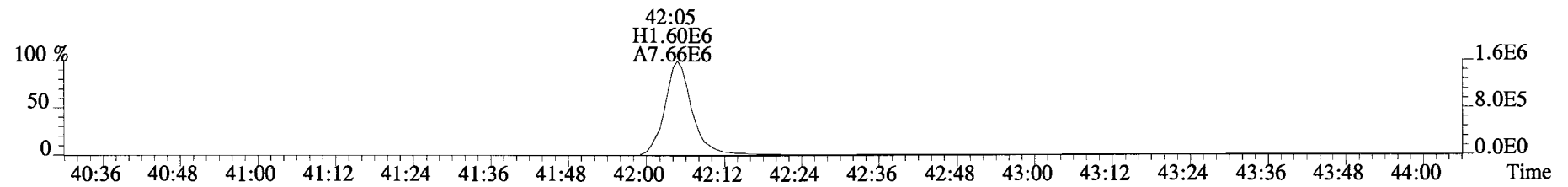
File:141226D2 #1-389 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:4 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



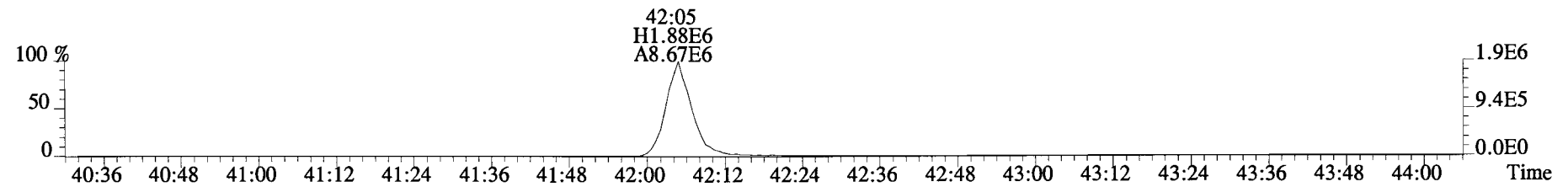
459.7348 S:4 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



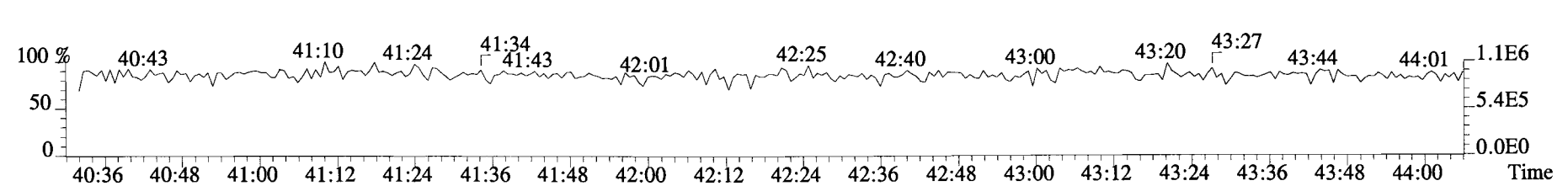
469.7780 S:4 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



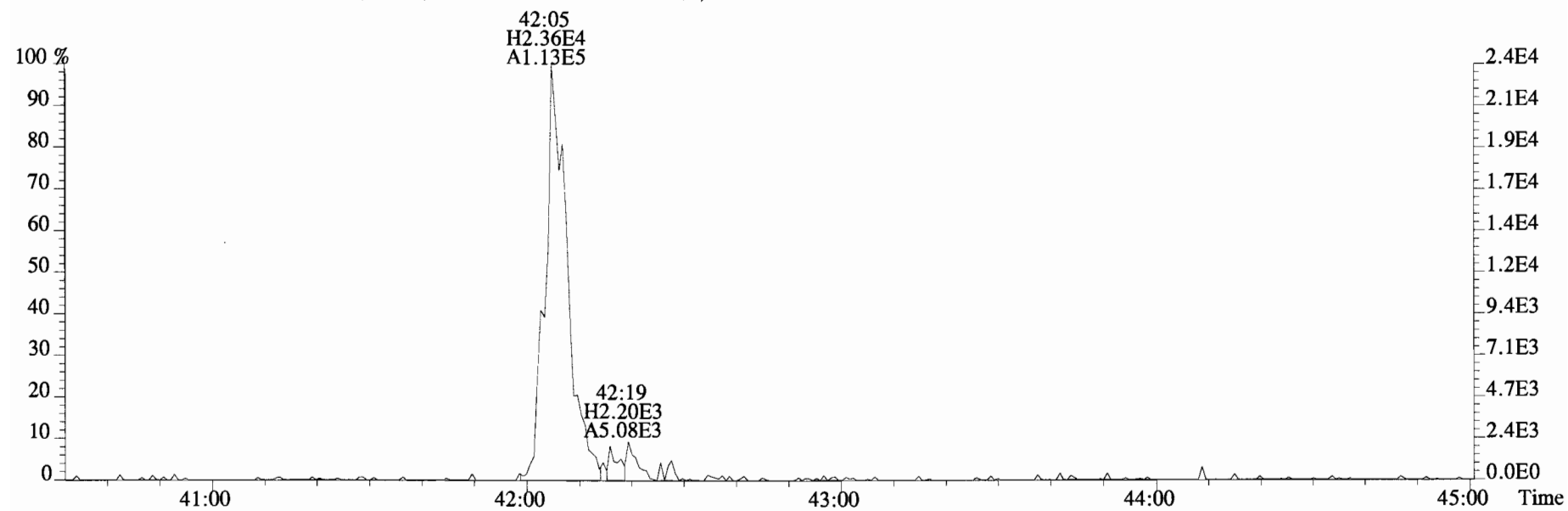
471.7750 S:4 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



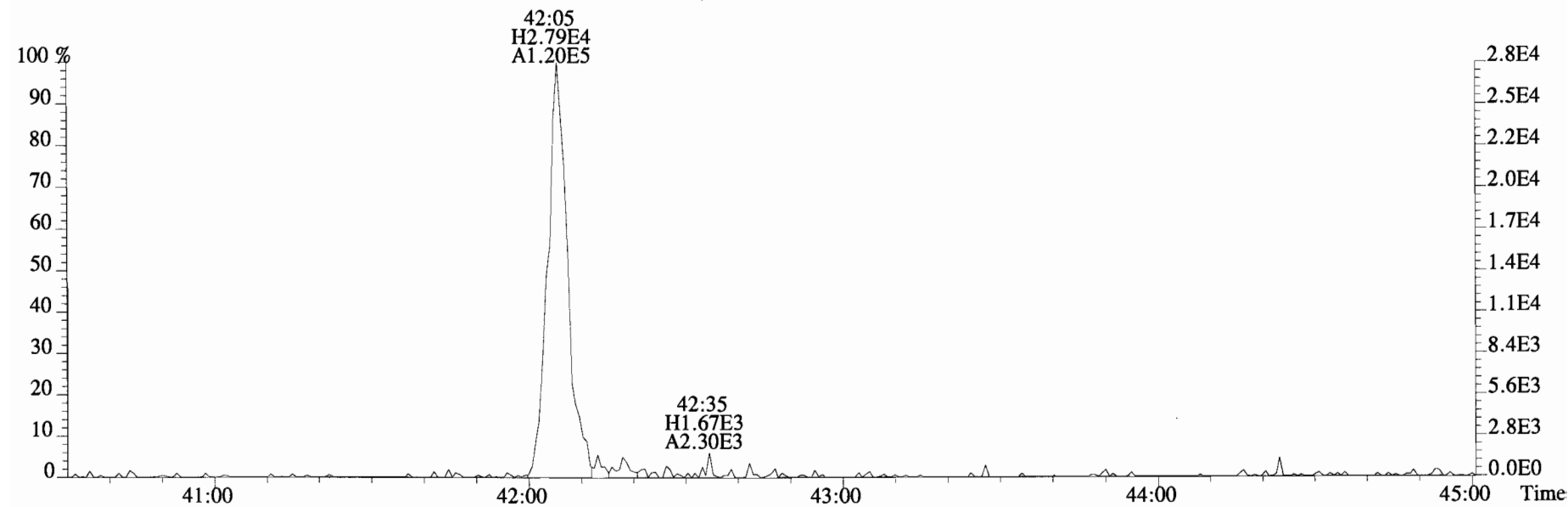
454.9728 S:4 F:5



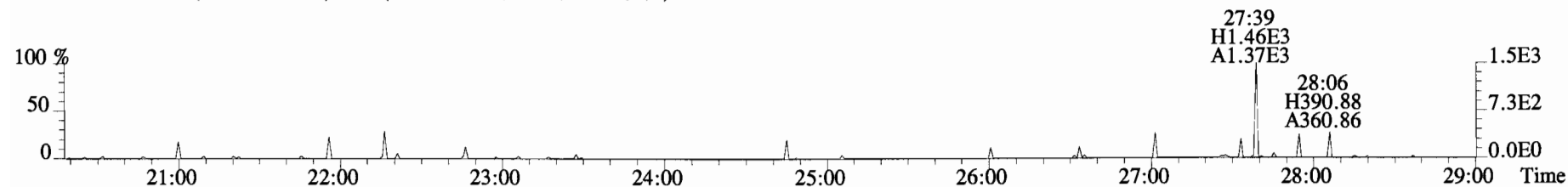
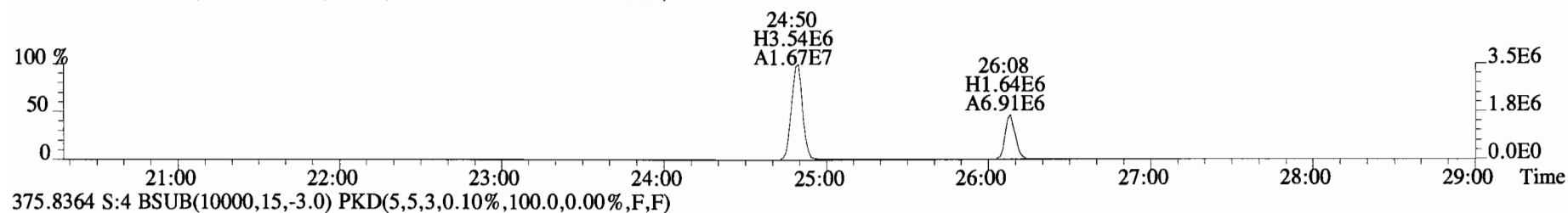
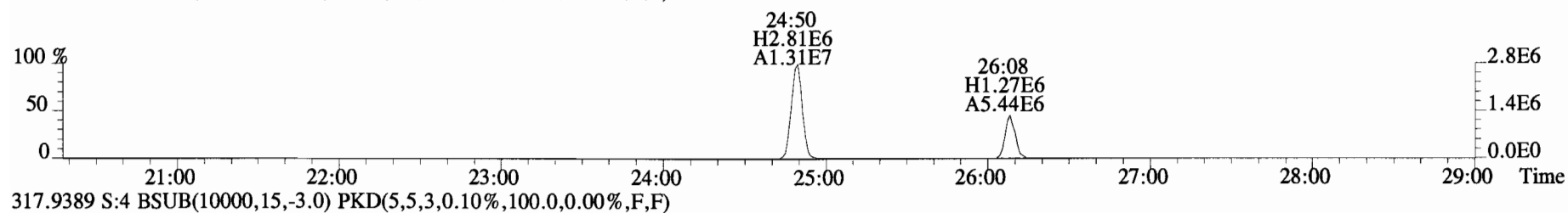
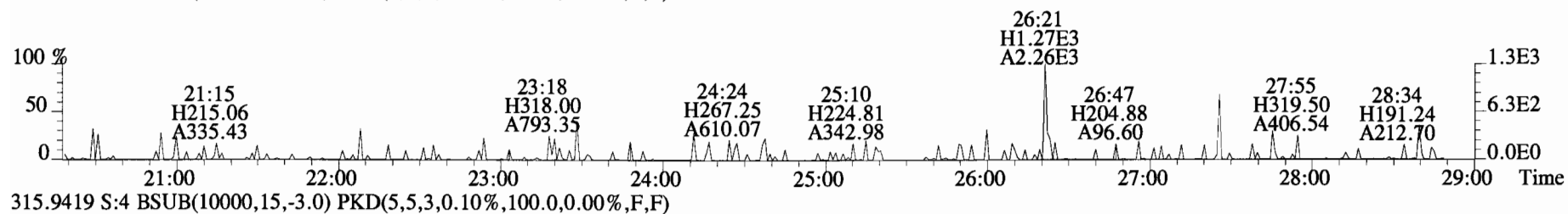
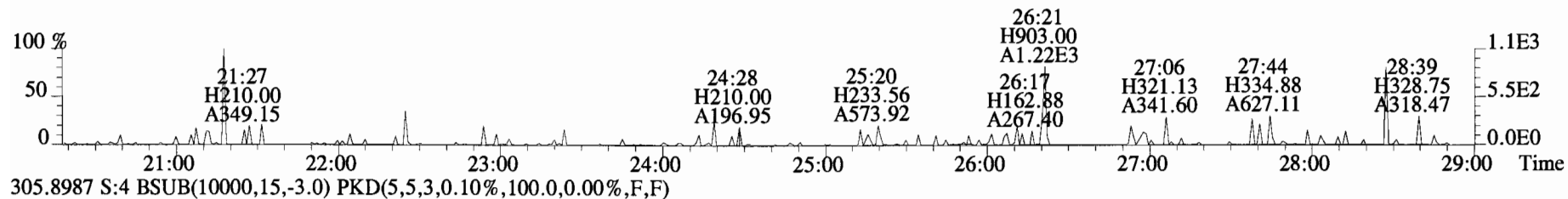
File:141226D2 #1-389 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



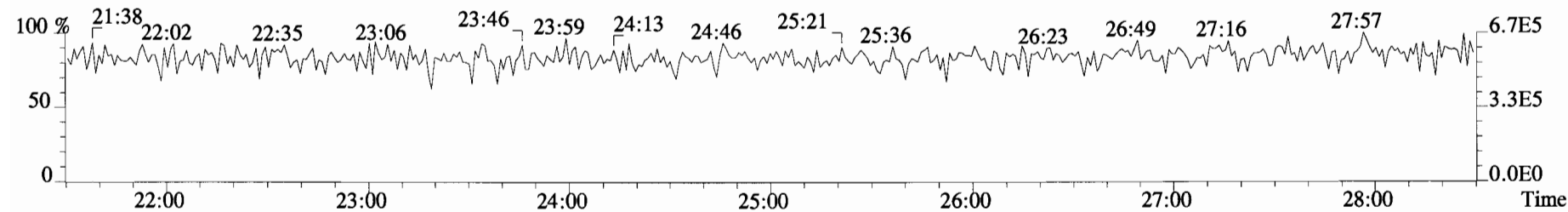
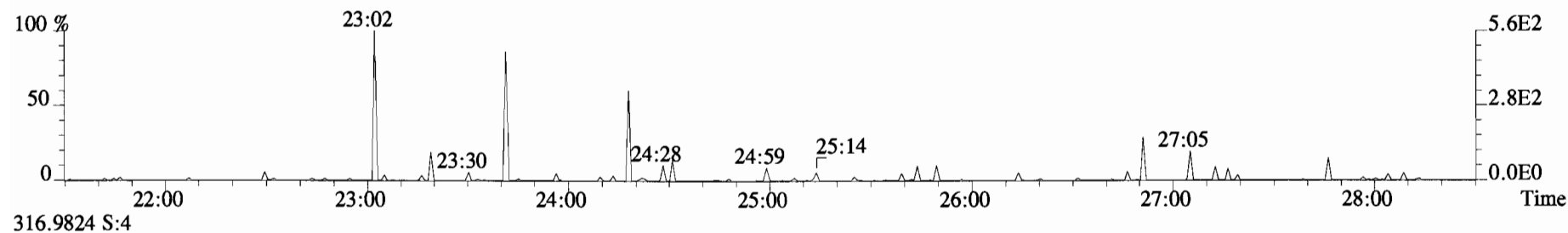
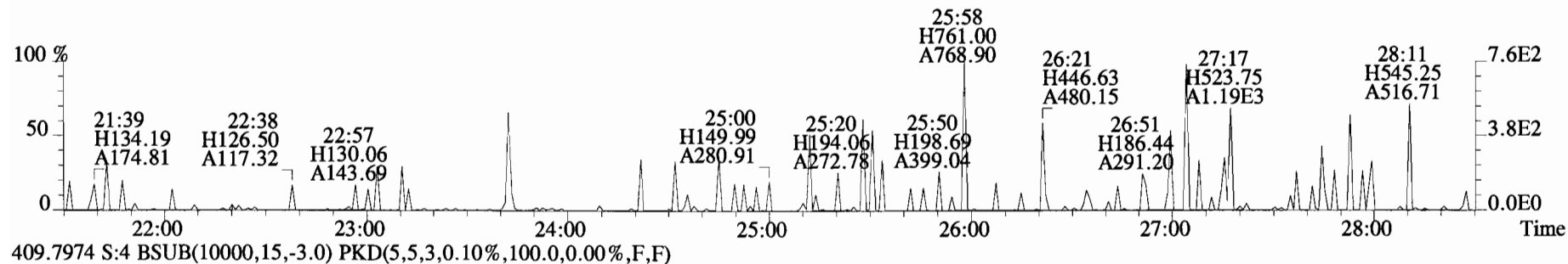
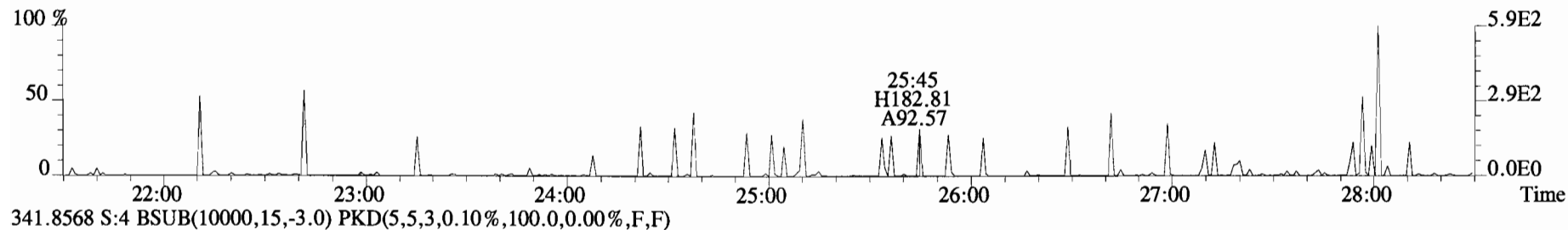
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



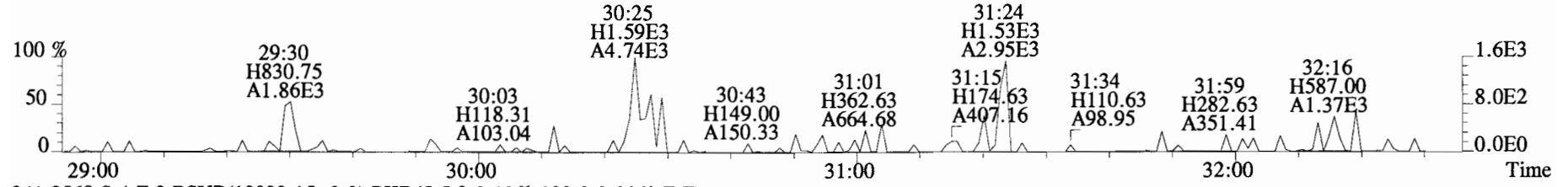
File:141226D2 #1-551 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



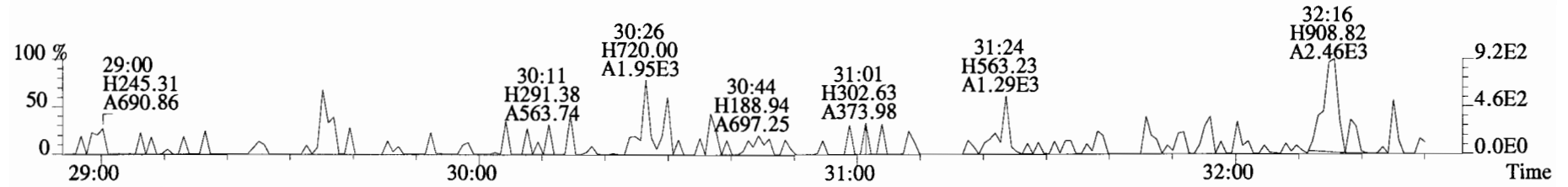
File:141226D2 #1-551 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



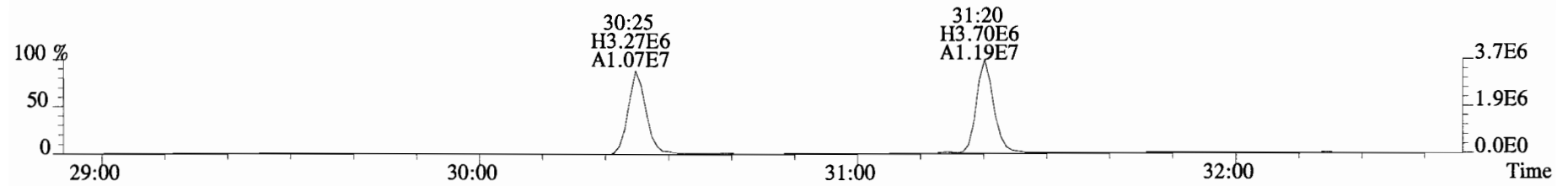
File:141226D2 #1-256 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



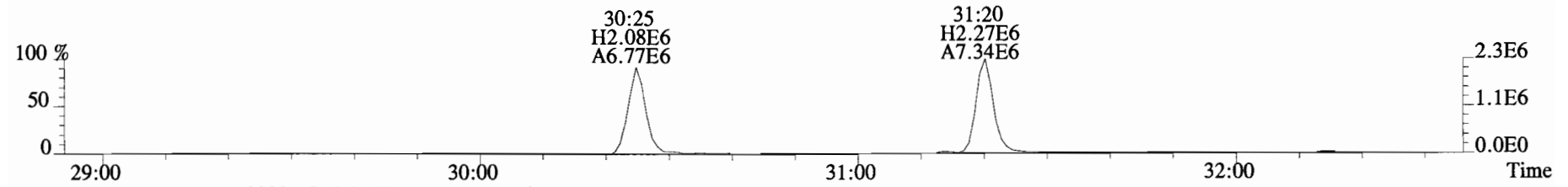
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



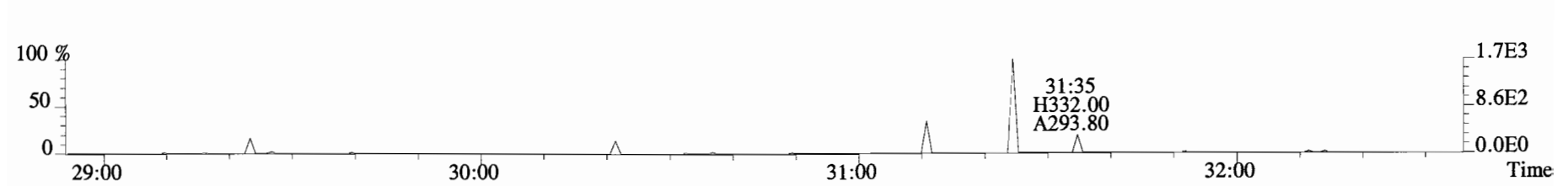
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



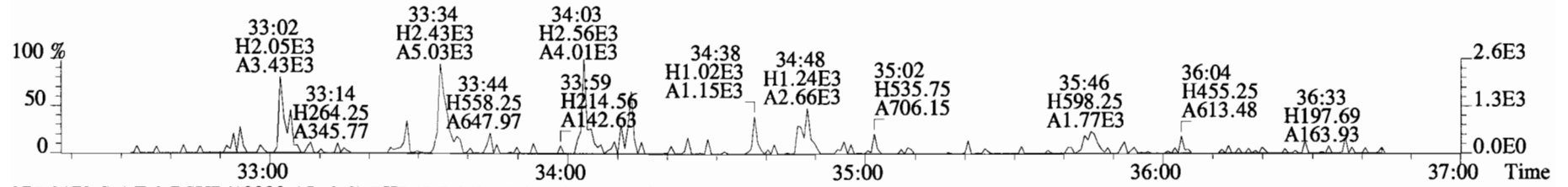
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



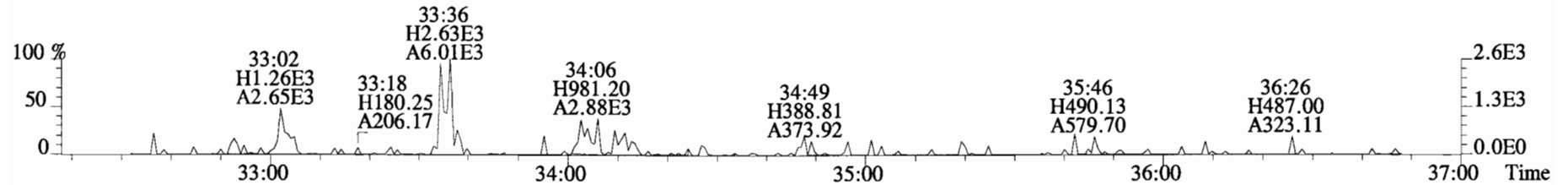
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



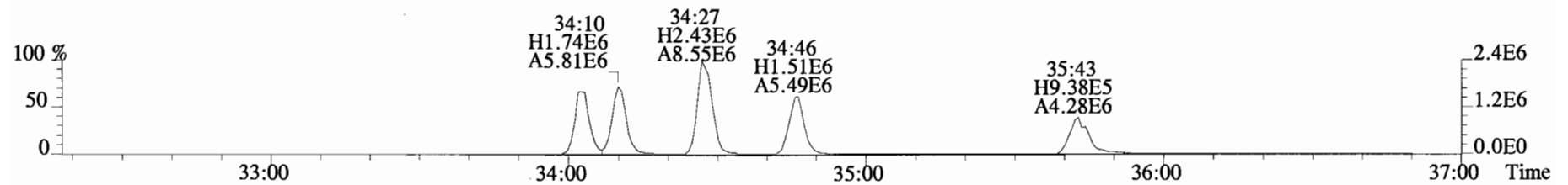
File:141226D2 #1-385 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



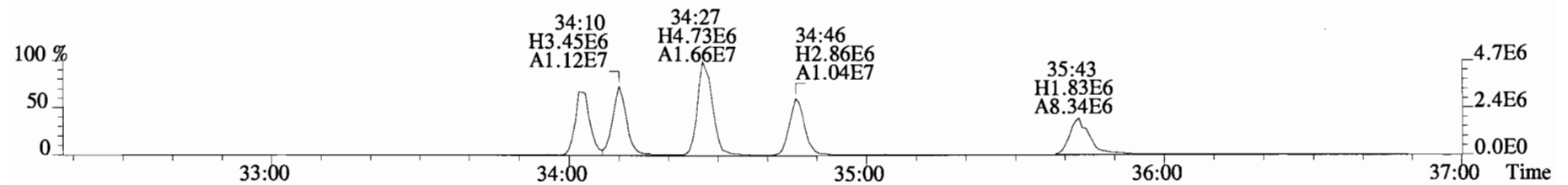
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



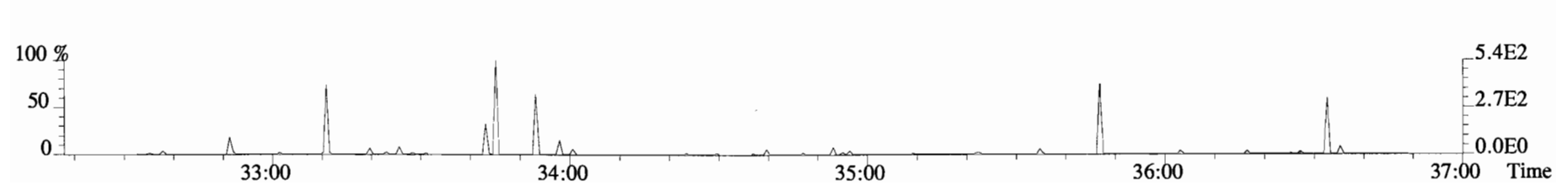
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



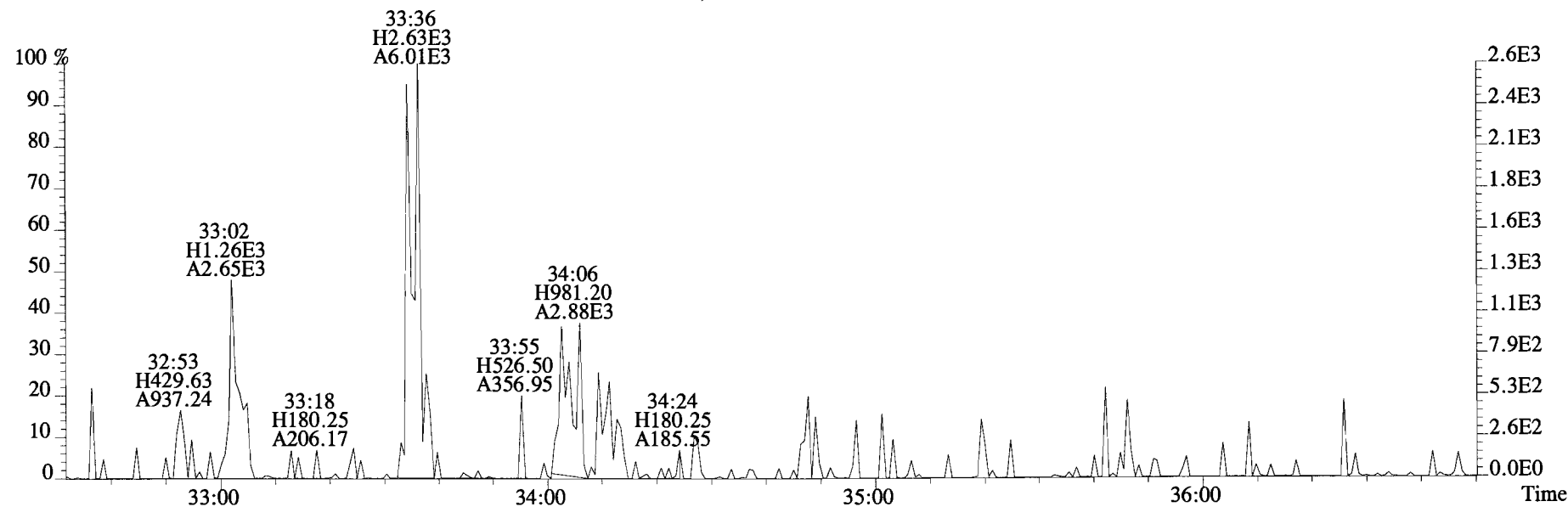
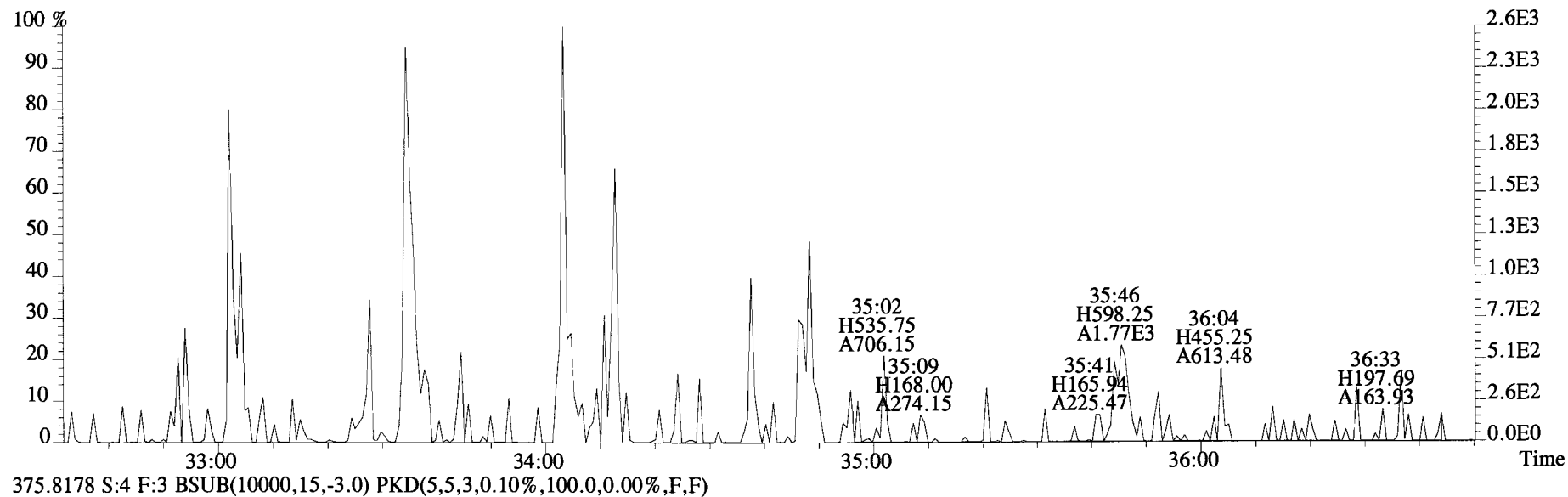
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



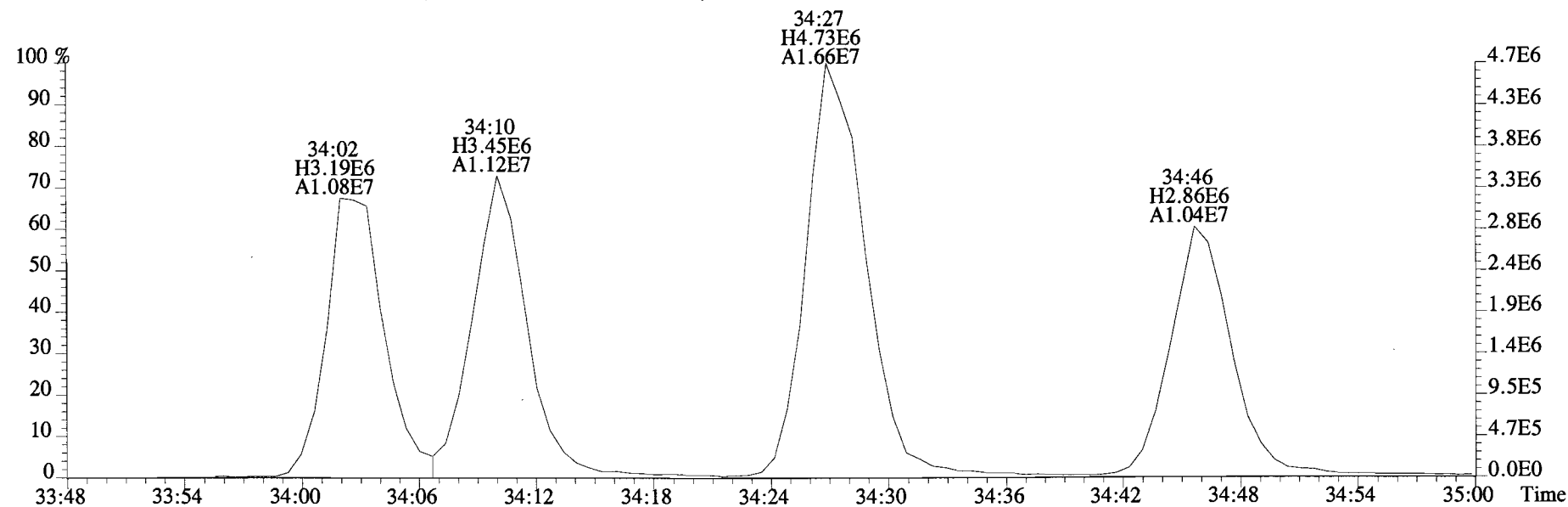
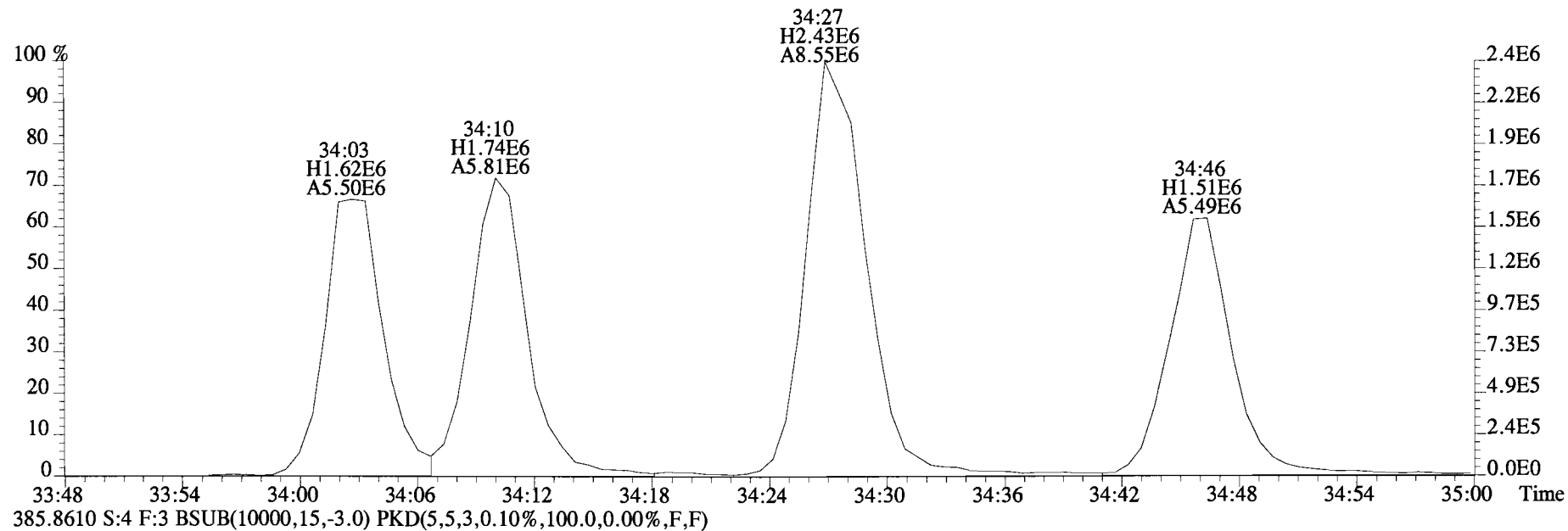
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



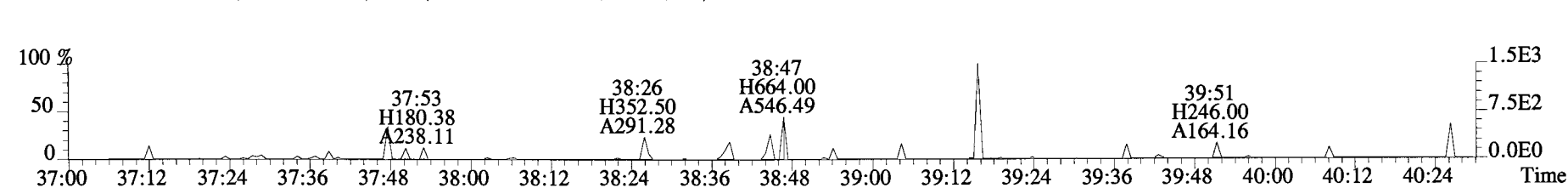
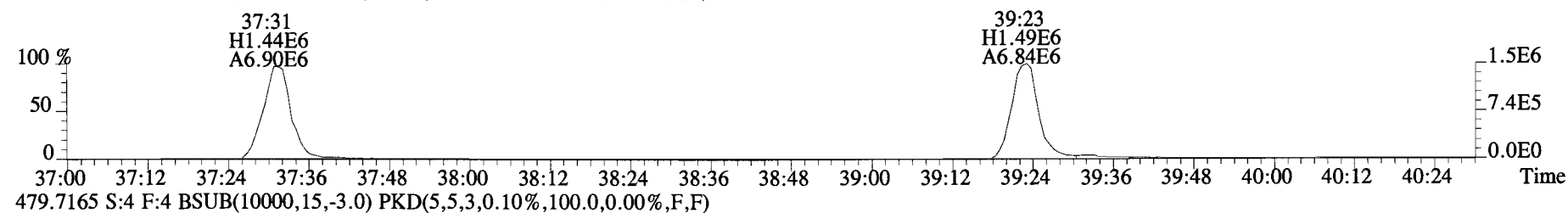
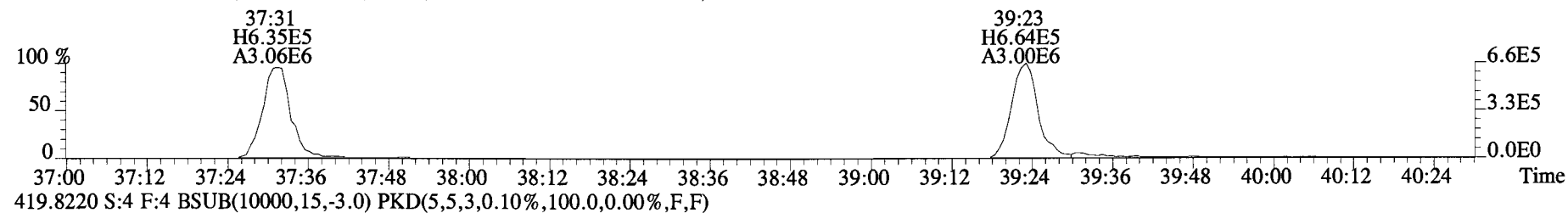
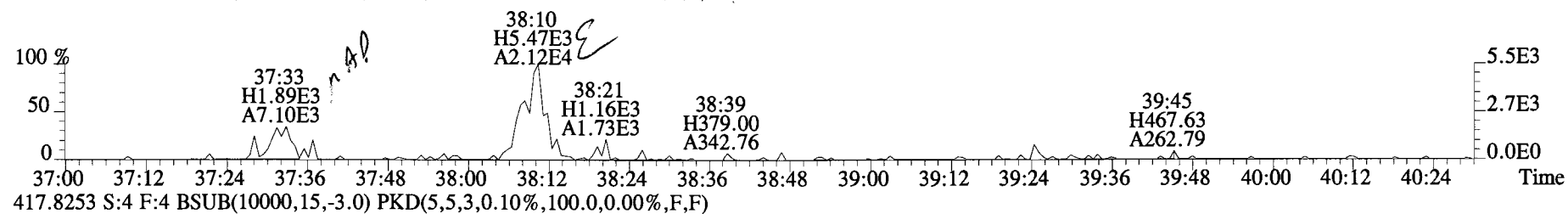
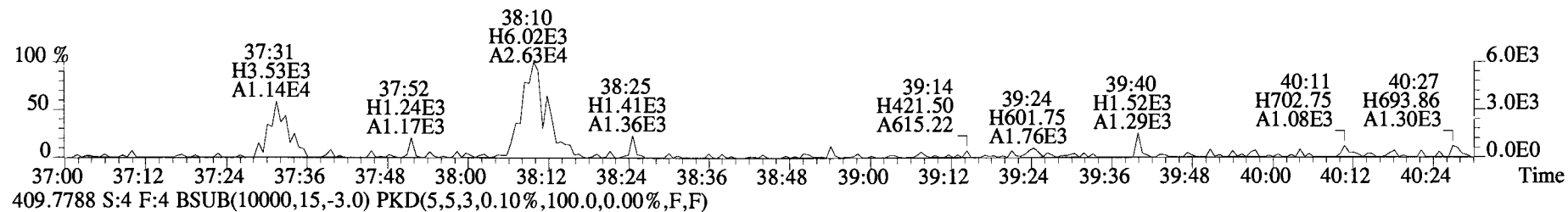
File:141226D2 #1-385 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



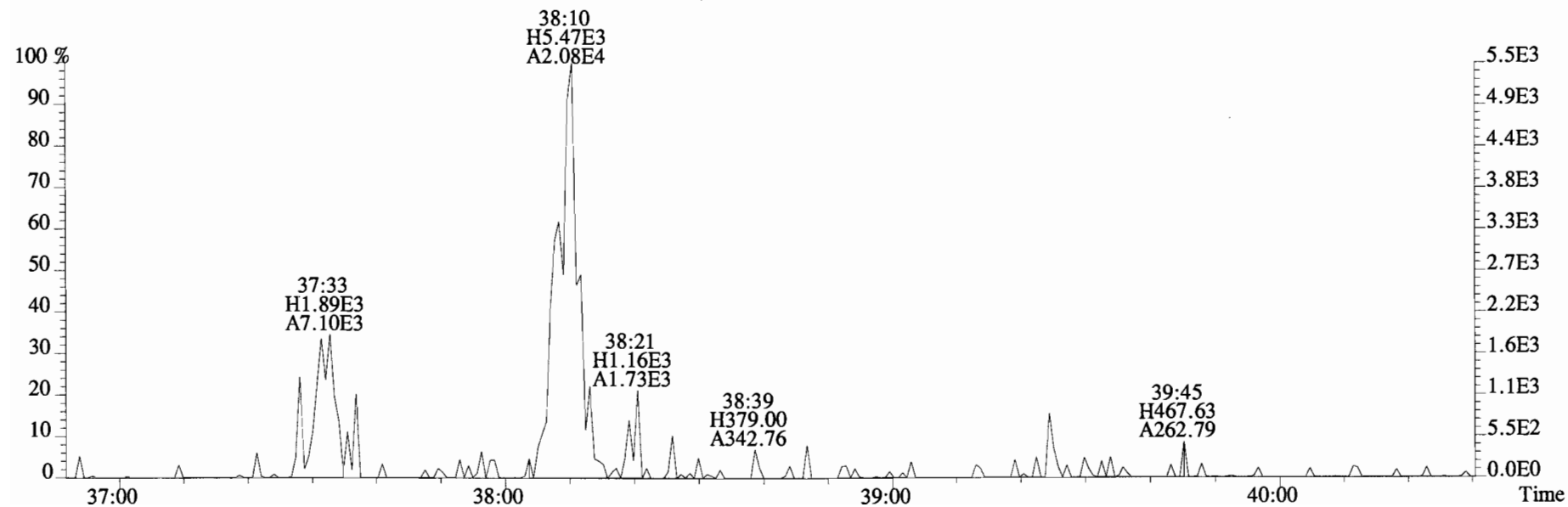
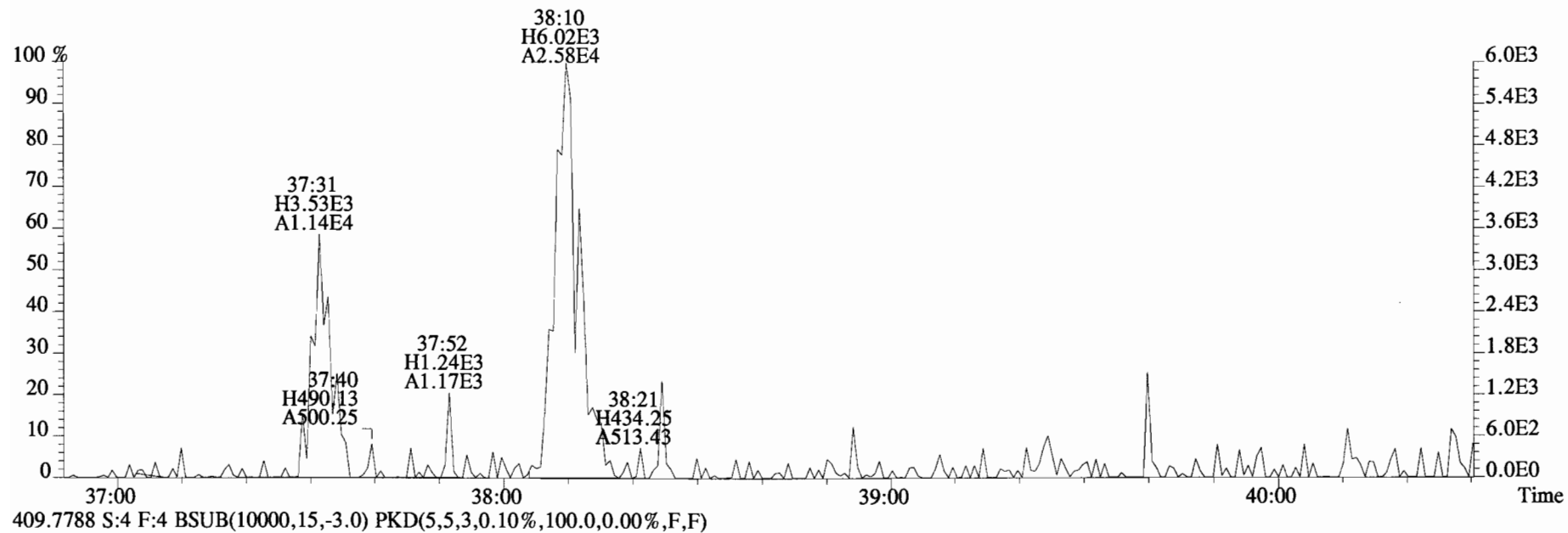
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Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



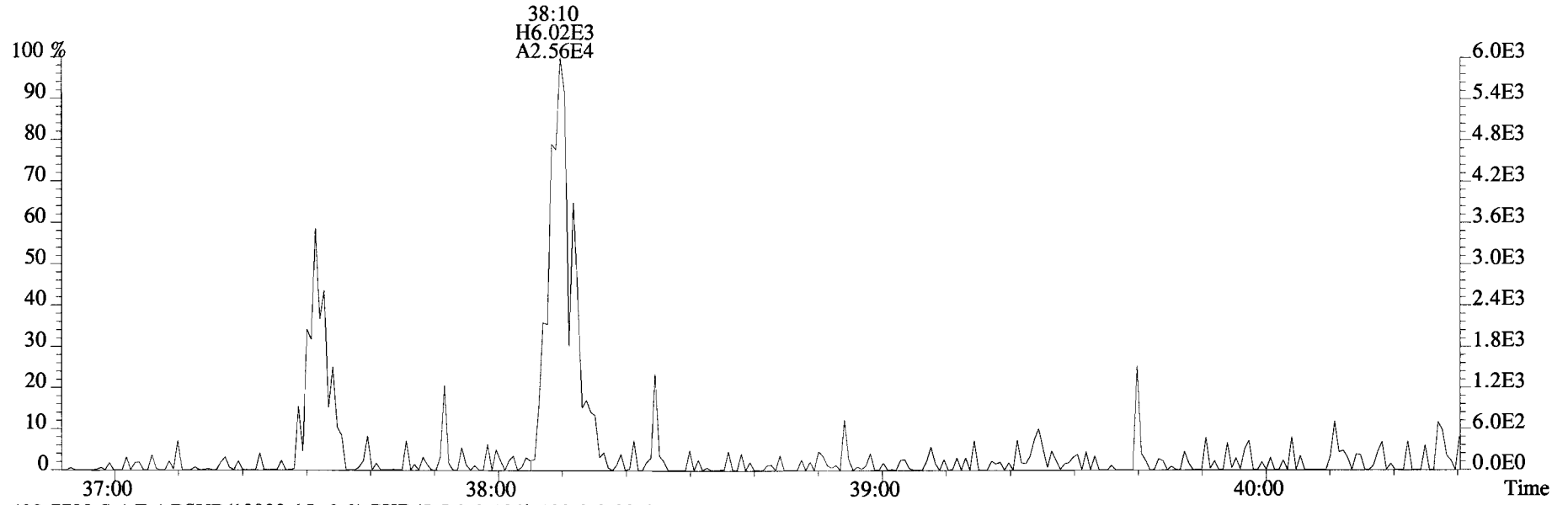
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Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



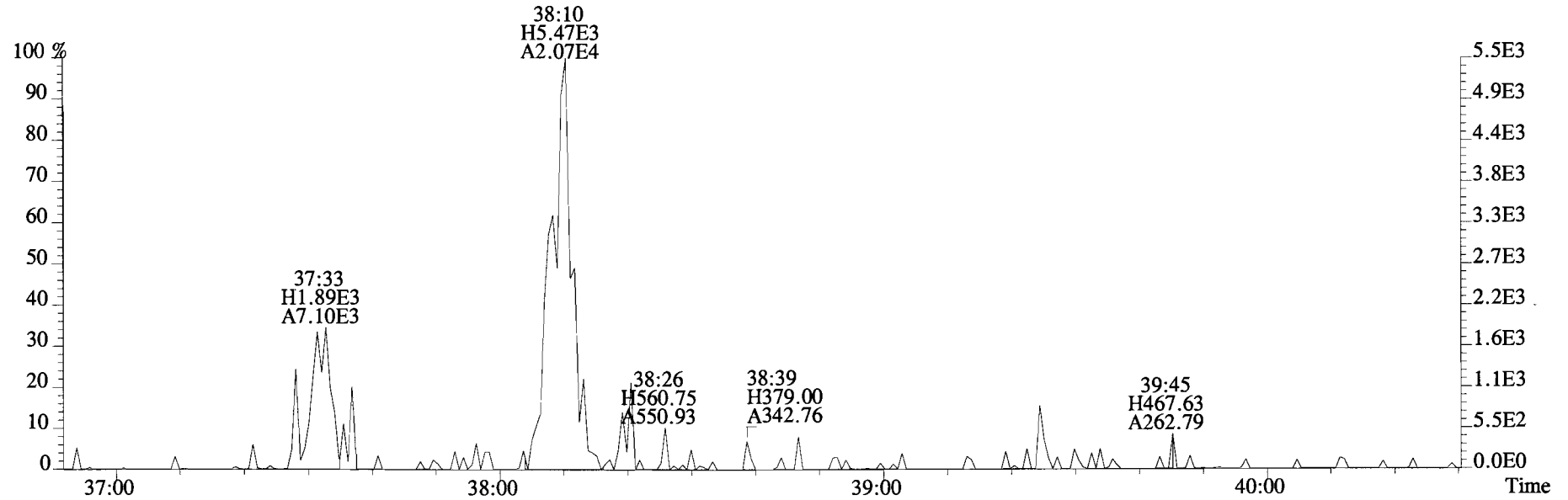
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Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



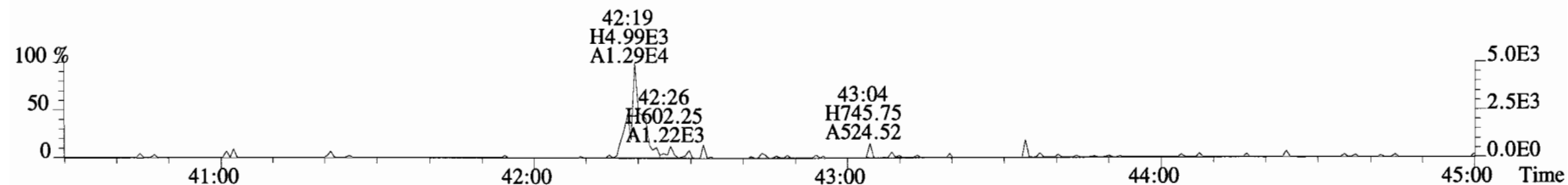
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Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



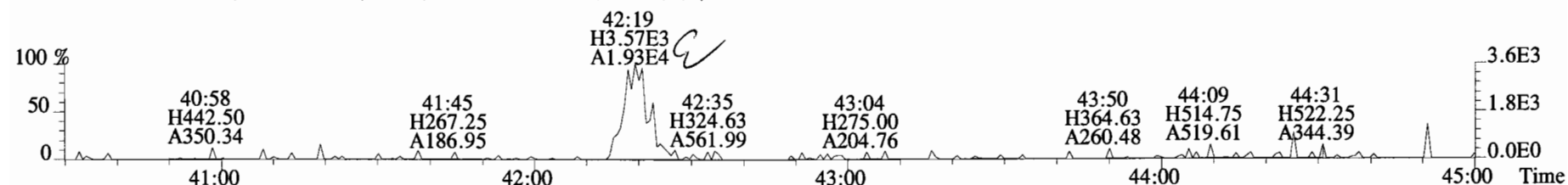
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



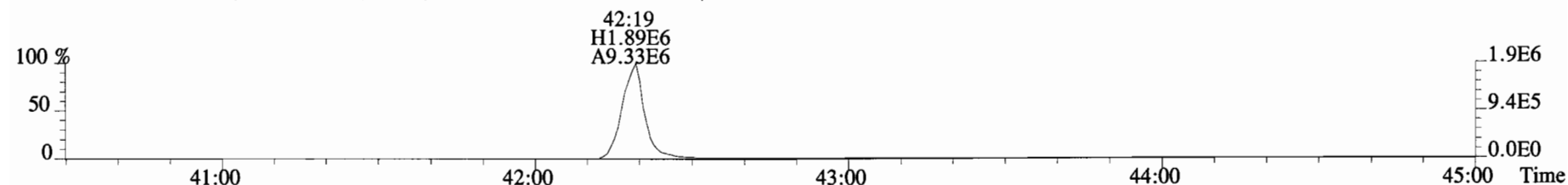
File:141226D2 #1-389 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



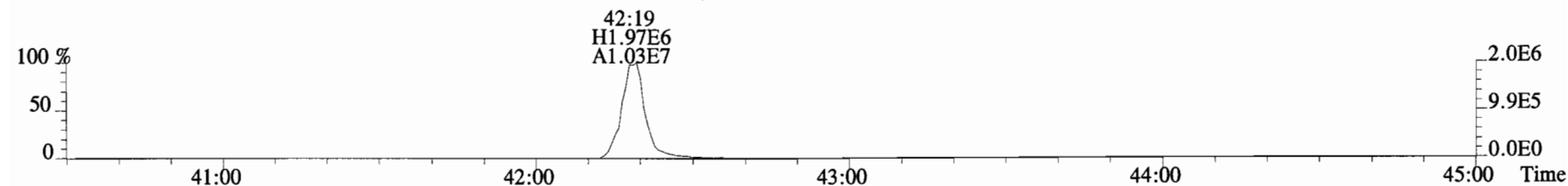
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



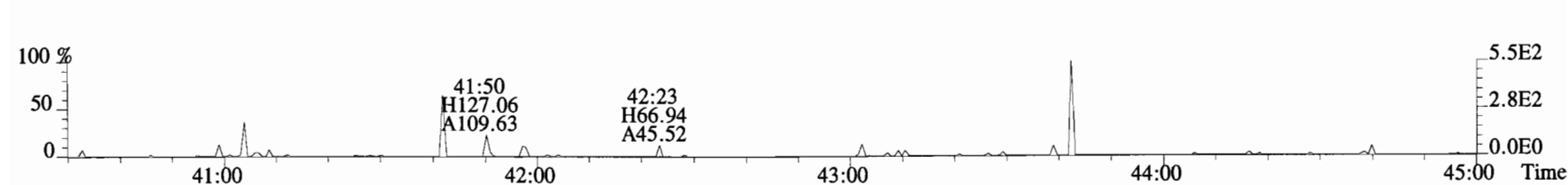
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



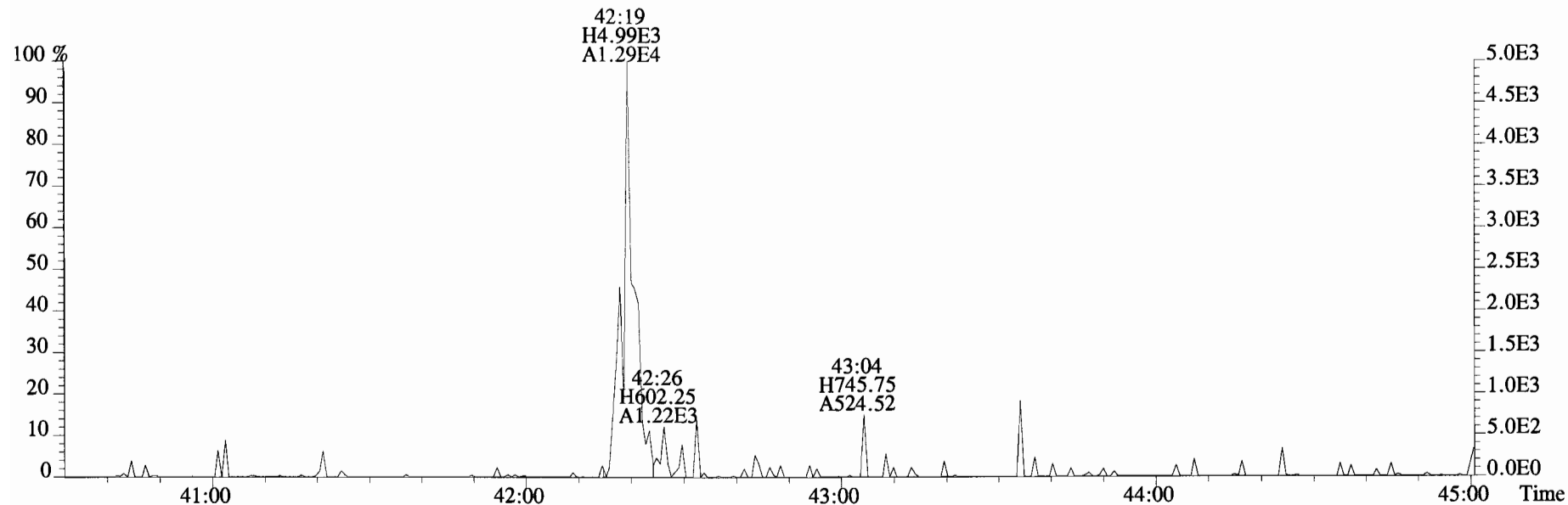
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



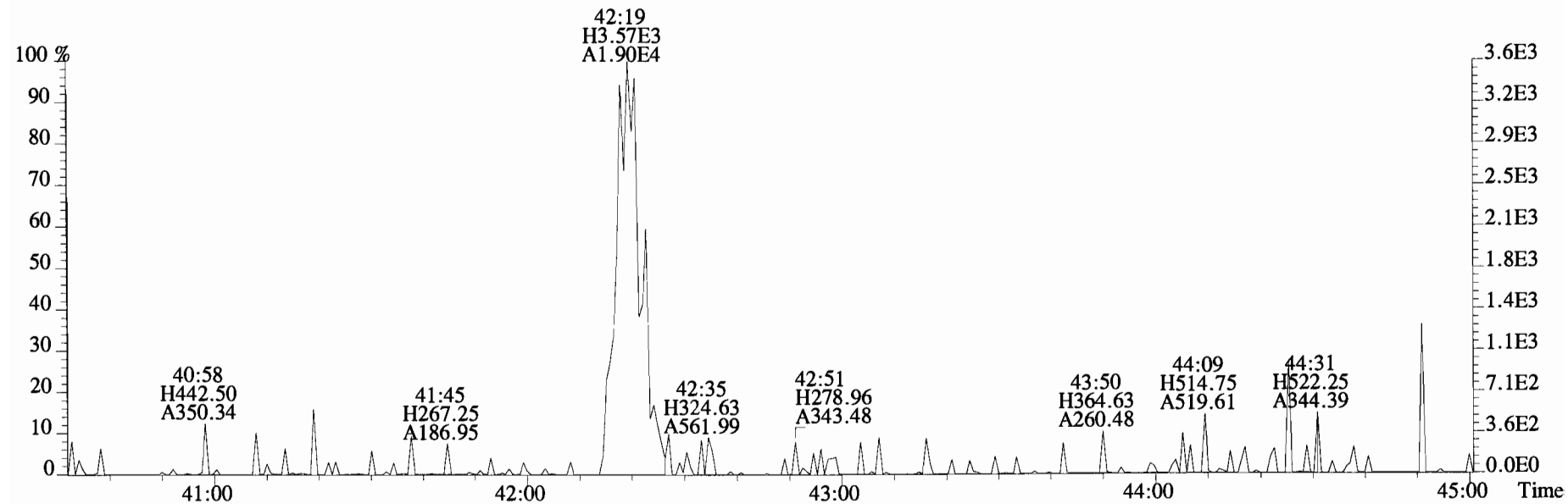
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141226D2 #1-389 Acq:26-DEC-2014 22:50:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

Lab Name: Vista Analytical Laboratory Extraction Batch: B4L0130-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 141226D2-2

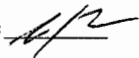
Ext. Date: 12-13-14 Shift: Day Analysis Date: 26-DEC-14 Time: 21:12:35

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	9.31	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	45.3	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	47.7	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	49.7	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	47.2	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	46.0	35.0 - 70.0
OCDD	100	97.7	78.0 - 144.0
2,3,7,8-TCDF	10	8.95	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	46.2	40.0 - 67.0
2,3,4,7,8-PeCDF	50	46.5	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	47.8	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	48.6	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	49.0	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	49.5	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	47.6	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	48.0	39.0 - 69.0
OCDF	100	97.9	63.0 - 170.0

(1) Contract-required concentration limits for OPR
as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR
as specified in Table 6a, Method 1613. 10/94

Analyst: 

Date: 12/27/14

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

Lab Name: Vista Analytical Laboratory Extraction Batch: B4L0130-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 141226D2-2

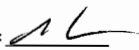
Ext. Date: 12-13-14 Shift: Day Analysis Date: 26-DEC-14 Time: 21:12:35

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	82.0	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	123	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	67.6	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	67.3	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	68.3	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	65.4	26.0 - 166.0
13C-OCDD	200	95.9	26.0 - 397.0
13C-2,3,7,8-TCDF	100	76.0	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	90.0	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	96.9	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	78.0	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	73.6	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	68.5	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	67.7	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	61.4	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	59.5	20.0 - 186.0
13C-OCDF	200	106	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	34.1	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: 

Date: 12/27/14

Client ID: OPR
Lab ID: B4L0130-BS1

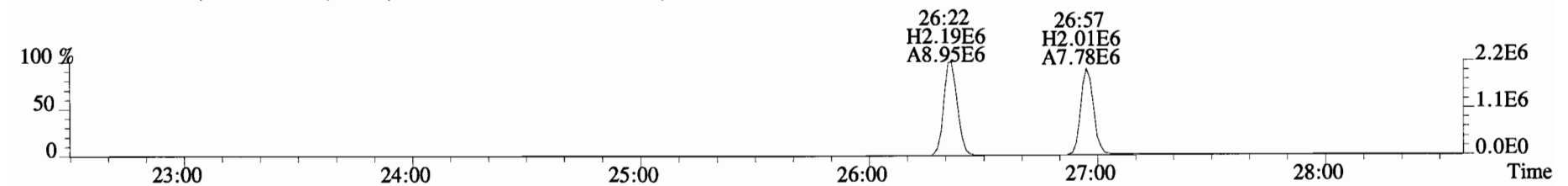
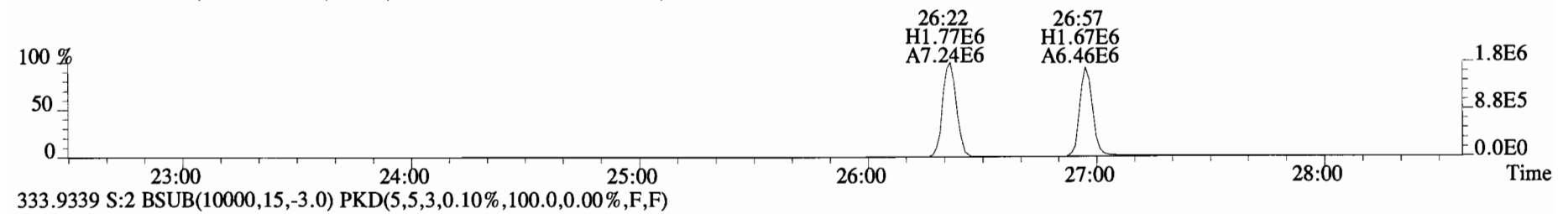
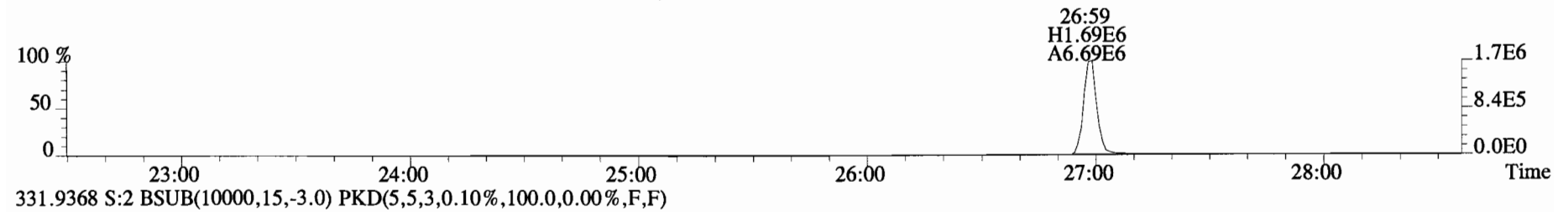
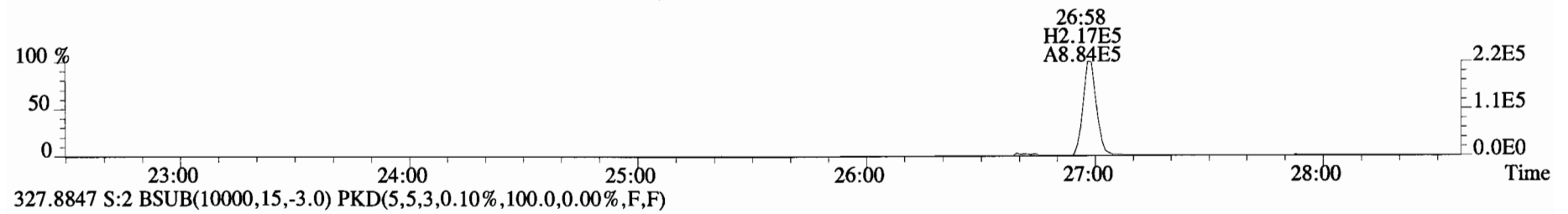
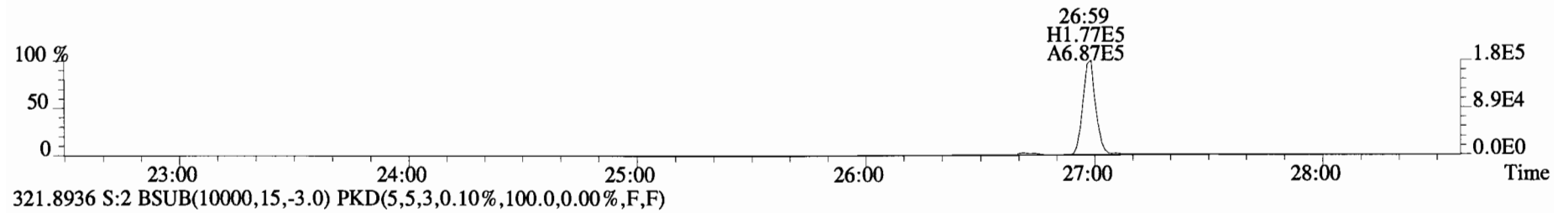
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GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

ConCal: ST141226D2-1
EndCAL: NA

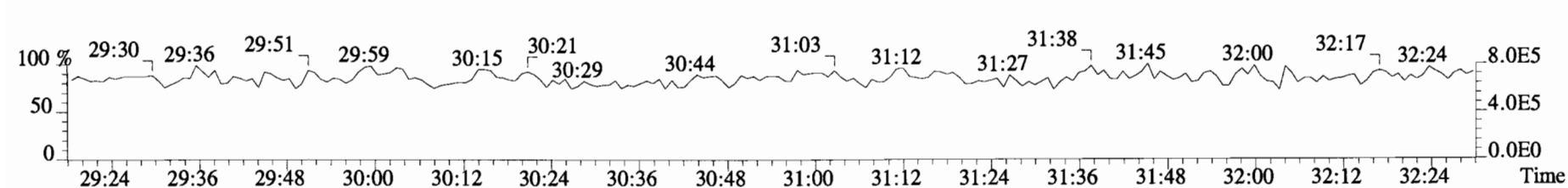
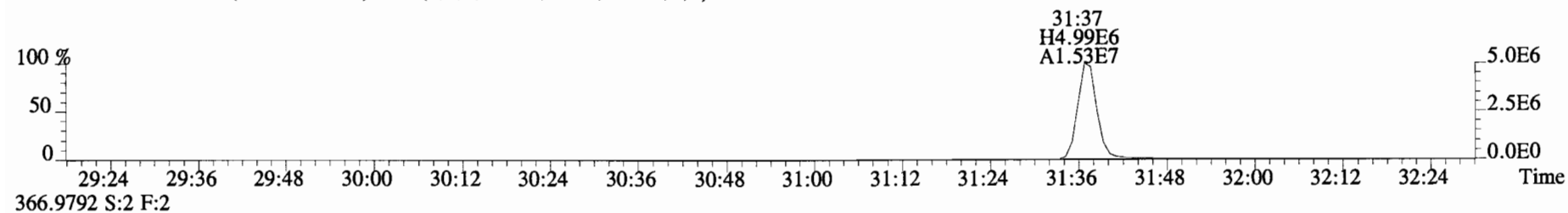
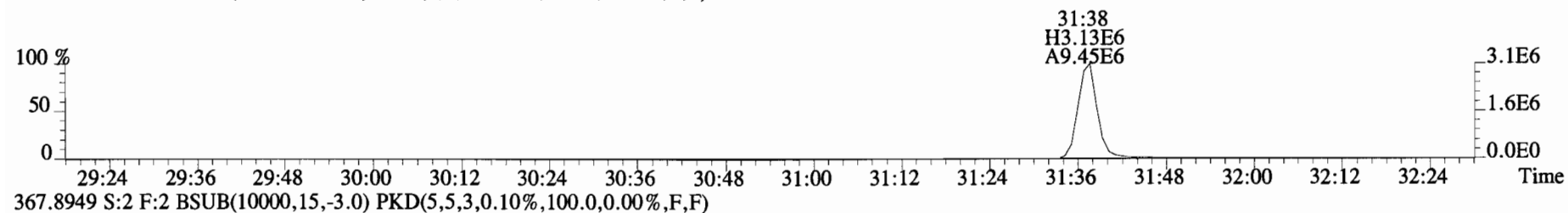
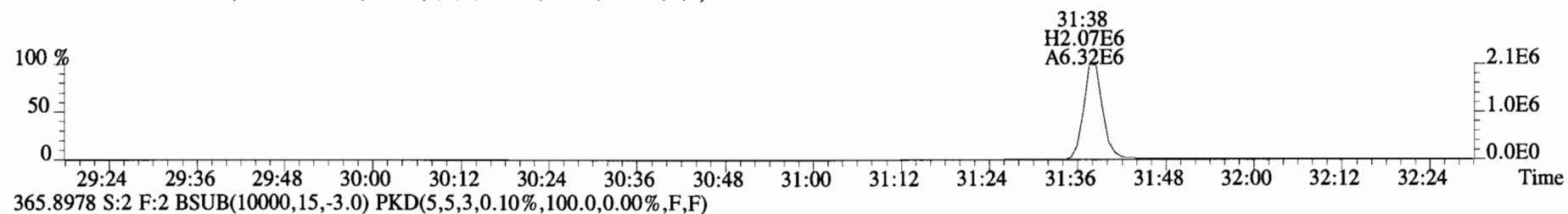
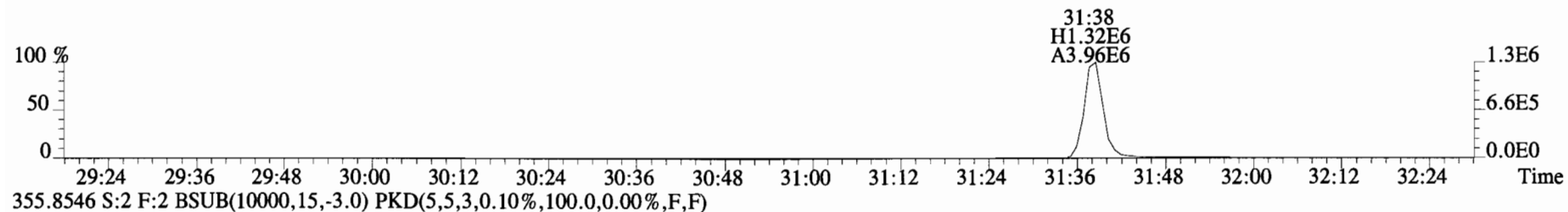
Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.57e+06	0.78 y	1.18	26:58	1.001	9.3100	*	*	2.5	*	Total Tetra-Dioxins	9.34	9.64	*	*	
1,2,3,7,8-PeCDD	1.03e+07	0.63 y	0.92	31:38	1.000	45.292	*	*	2.5	*	Total Penta-Dioxins	45.6	46.1	*	*	
1,2,3,4,7,8-HxCDD	7.65e+06	1.28 y	1.09	34:57	1.000	47.666	*	*	2.5	*	Total Hexa-Dioxins	145	146	*	*	
1,2,3,6,7,8-HxCDD	7.92e+06	1.25 y	1.07	35:04	1.000	49.723	*	*	2.5	*	Total Hepta-Dioxins	46.3	49.3	*	*	
1,2,3,7,8,9-HxCDD	7.73e+06	1.29 y	0.93	35:21	1.000	47.186	*	*	2.5	*	Total Tetra-Furans	9.10	9.39	*	*	
1,2,3,4,6,7,8-HpCDD	6.51e+06	1.06 y	1.12	38:51	1.000	46.012	*	*	2.5	*	Total Penta-Furans	93.738	95.250	*	*	
OCDD	1.05e+07	0.89 y	0.95	42:07	1.000	97.651	*	*	2.5	*	Total Hexa-Furans	197	198	*	*	
											Total Hepta-Furans	97.8	99.5	*	*	
2,3,7,8-TCDF	2.13e+06	0.78 y	1.08	26:10	1.001	8.9538	*	*	2.5	*						
1,2,3,7,8-PeCDF	1.35e+07	1.60 y	1.09	30:26	1.000	46.190	*	*	2.5	*						
2,3,4,7,8-PeCDF	1.43e+07	1.58 y	1.04	31:21	1.000	46.489	*	*	2.5	*						
1,2,3,4,7,8-HxCDF	1.55e+07	1.31 y	1.39	34:04	1.000	47.810	*	*	2.5	*						
1,2,3,6,7,8-HxCDF	1.49e+07	1.29 y	1.26	34:12	1.001	48.614	*	*	2.5	*						
2,3,4,6,7,8-HxCDF	1.35e+07	1.29 y	1.30	34:47	1.000	48.954	*	*	2.5	*						
1,2,3,7,8,9-HxCDF	1.03e+07	1.30 y	1.19	35:45	1.000	49.514	*	*	2.5	*						
1,2,3,4,6,7,8-HpCDF	1.02e+07	1.08 y	1.62	37:32	1.000	47.633	*	*	2.5	*						
1,2,3,4,7,8,9-HpCDF	9.29e+06	1.09 y	1.53	39:24	1.000	47.954	*	*	2.5	*						
OCDF	1.51e+07	0.90 y	1.10	42:20	1.000	97.886	*	*	2.5	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.42e+07	0.83 y	1.07	26:57	1.023	82.008					82.0					
IS 13C-1,2,3,7,8-PeCDD	2.47e+07	0.62 y	1.24	31:38	1.200	123.13					123					
IS 13C-1,2,3,4,7,8-HxCDD	1.48e+07	1.25 y	0.72	34:56	1.014	67.593					67.6					
IS 13C-1,2,3,6,7,8-HxCDD	1.49e+07	1.24 y	0.74	35:03	1.017	67.274					67.3					
IS 13C-1,2,3,7,8,9-HxCDD	1.76e+07	1.25 y	0.86	35:20	1.025	68.272					68.3					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.27e+07	1.08 y	0.64	38:50	1.127	65.352					65.4					
IS 13C-OCDD	2.26e+07	0.87 y	0.78	42:06	1.221	95.911					48.0					
IS 13C-2,3,7,8-TCDF	2.20e+07	0.77 y	0.92	26:09	0.992	76.005					76.0					
IS 13C-1,2,3,7,8-PeCDF	2.69e+07	1.58 y	0.95	30:25	1.154	89.950					90.0					
IS 13C-2,3,4,7,8-PeCDF	2.96e+07	1.55 y	0.97	31:21	1.189	96.924					96.9					
IS 13C-1,2,3,4,7,8-HxCDF	2.33e+07	0.52 y	0.99	34:03	0.988	77.970					78.0					
IS 13C-1,2,3,6,7,8-HxCDF	2.44e+07	0.53 y	1.10	34:10	0.992	73.554					73.6					
IS 13C-2,3,4,6,7,8-HxCDF	2.13e+07	0.52 y	1.03	34:47	1.009	68.514					68.5					
IS 13C-1,2,3,7,8,9-HxCDF	1.75e+07	0.51 y	0.86	35:44	1.037	67.716					67.7					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.32e+07	0.44 y	0.71	37:32	1.089	61.373					61.4					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.27e+07	0.44 y	0.71	39:23	1.143	59.464					59.5					
IS 13C-OCDF	2.79e+07	0.90 y	0.87	42:19	1.228	106.00					53.0					
C/Up 37Cl-2,3,7,8-TCDD	6.69e+06		1.21	26:59	1.024	34.104					85.3					
											Integrations					
											by					
RS/RT 13C-1,2,3,4-TCDD	1.62e+07	0.81 y	1.00	26:22	*	100.00					Analyst: 					
RS 13C-1,2,3,4-TCDF	3.14e+07	0.78 y	1.00	24:50	*	100.00					Analyst: <u>CT</u>					
RS/RT 13C-1,2,3,4,6,9-HxCDF	3.02e+07	0.52 y	1.00	34:28	*	100.00										

Date: 12/27/14 Date: 12/29/14

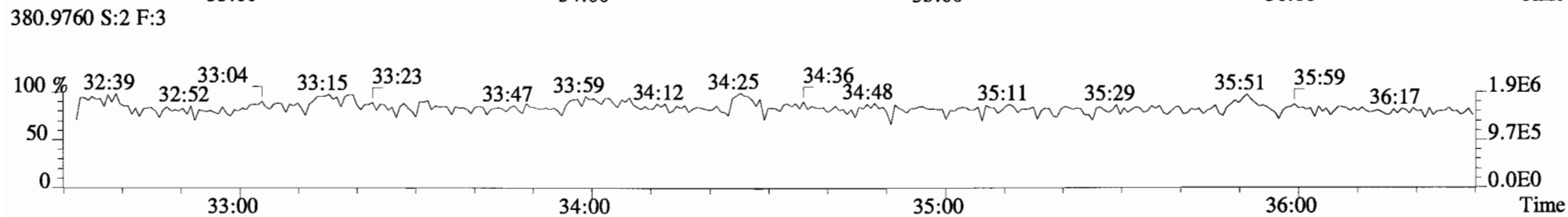
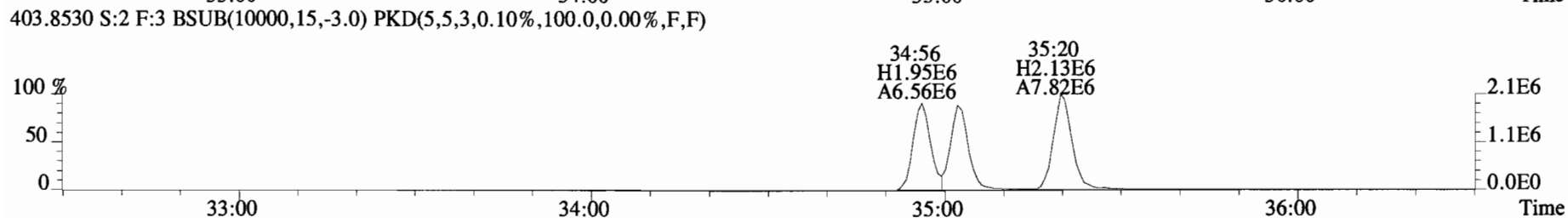
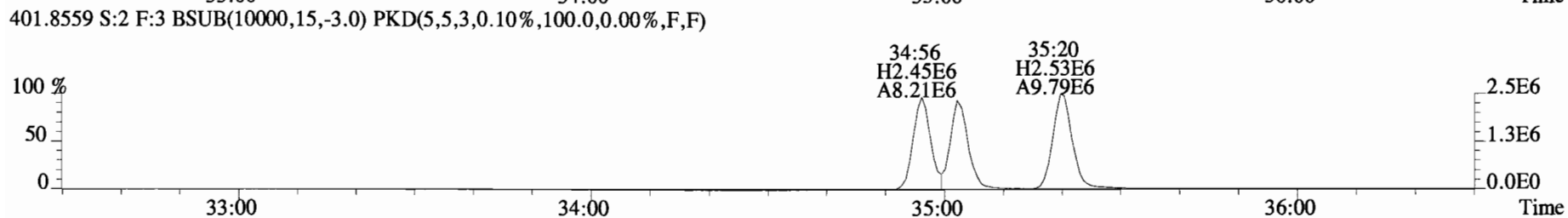
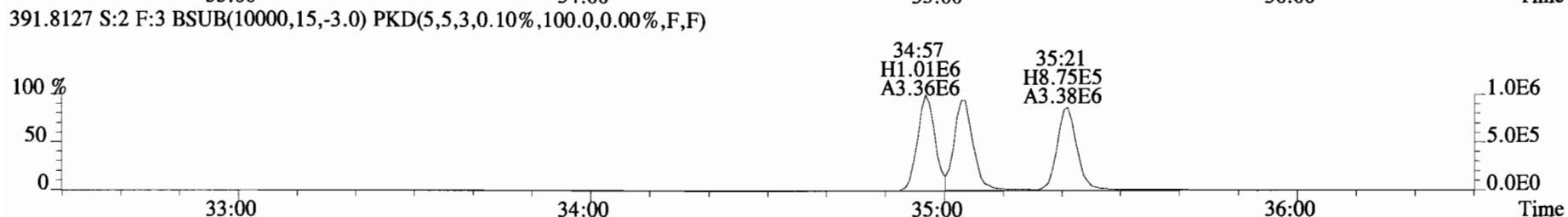
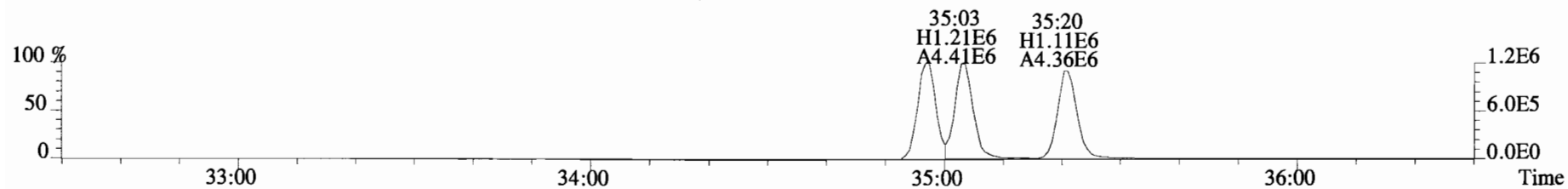
File:141226D2 #1-551 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



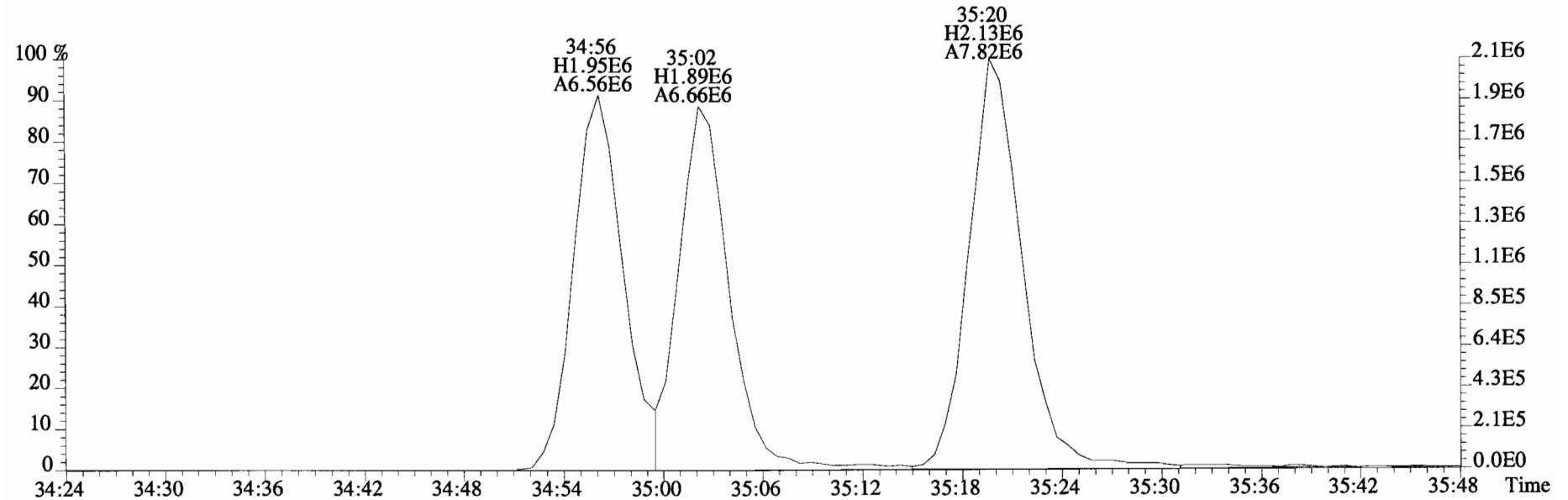
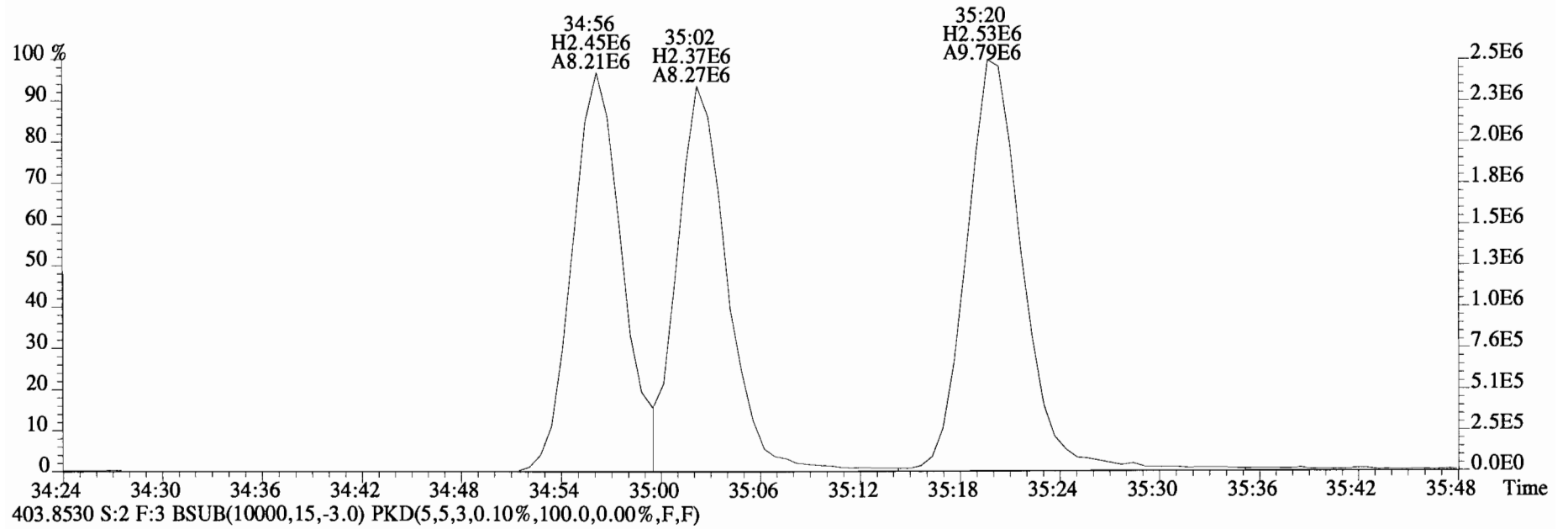
File:141226D2 #1-257 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



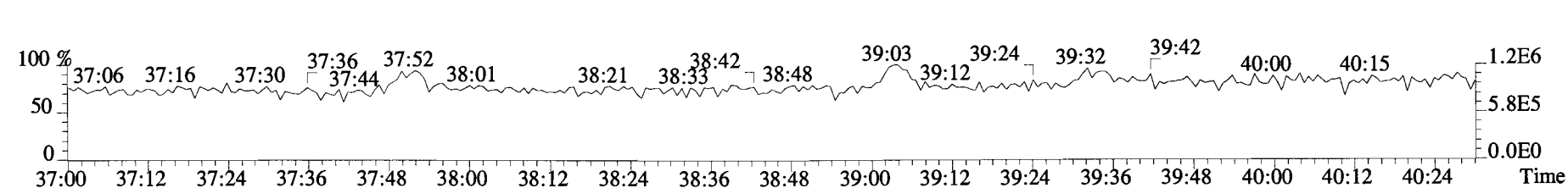
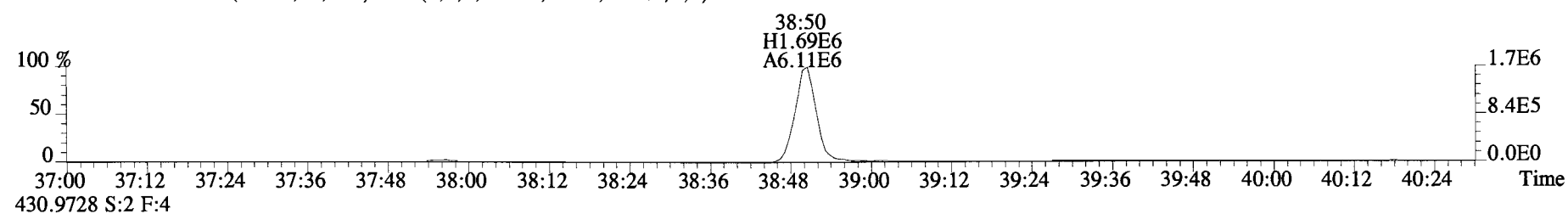
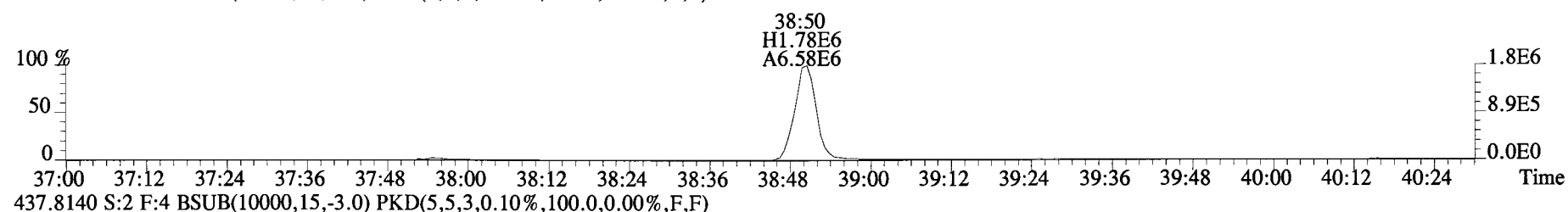
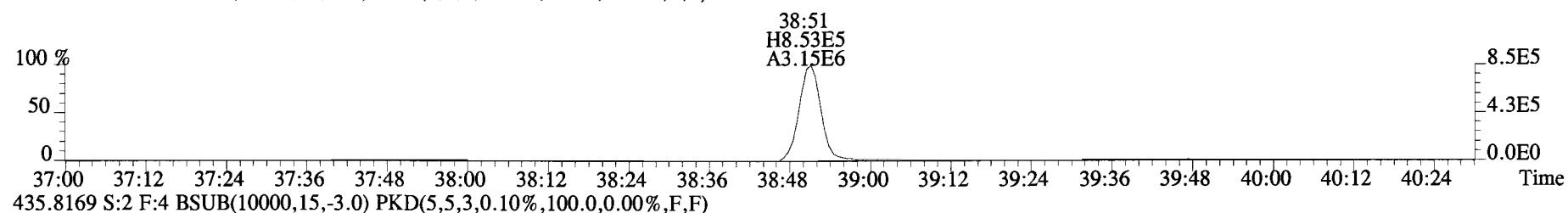
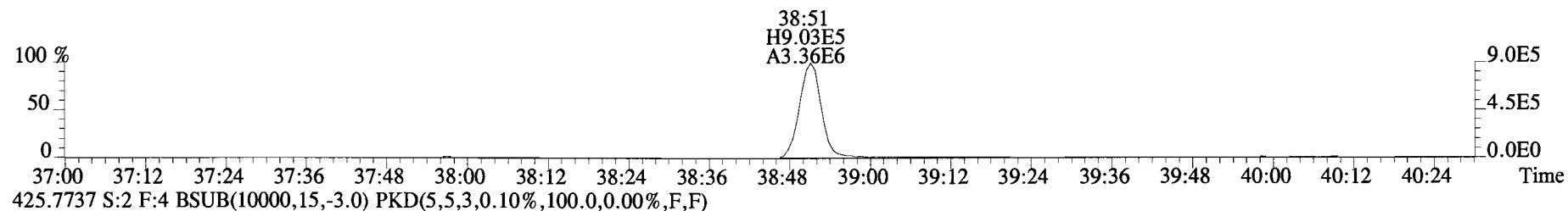
File:141226D2 #1-385 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



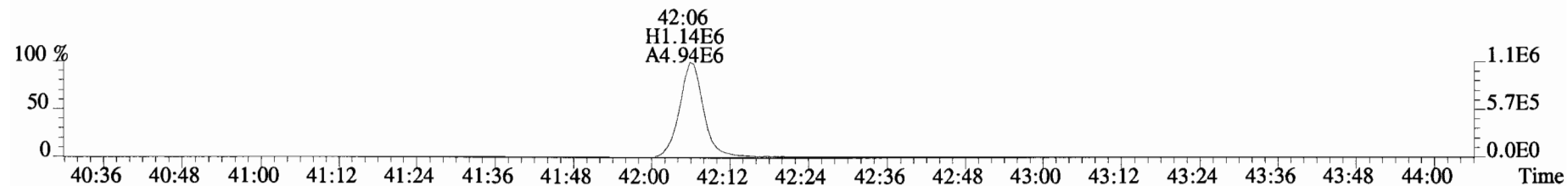
File:141226D2 #1-385 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



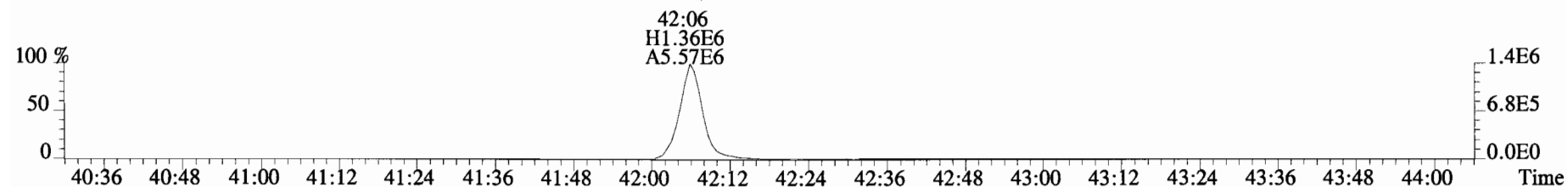
File:141226D2 #1-326 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



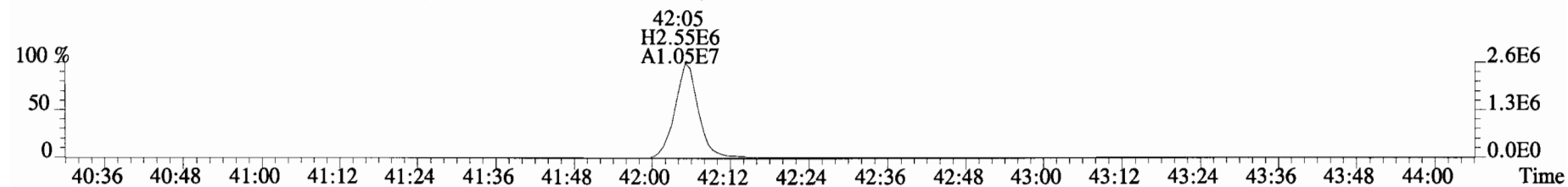
File:141226D2 #1-388 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



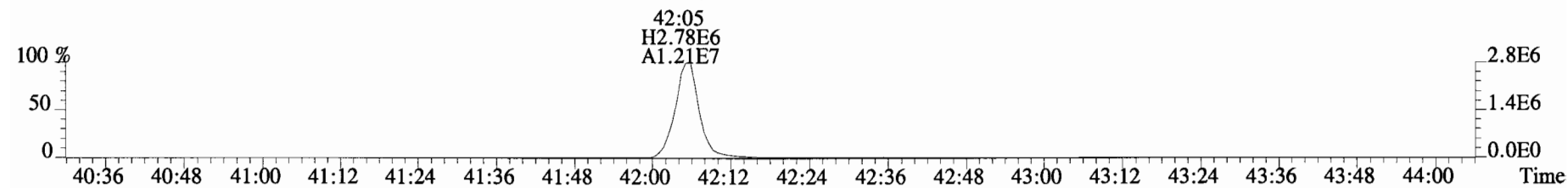
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



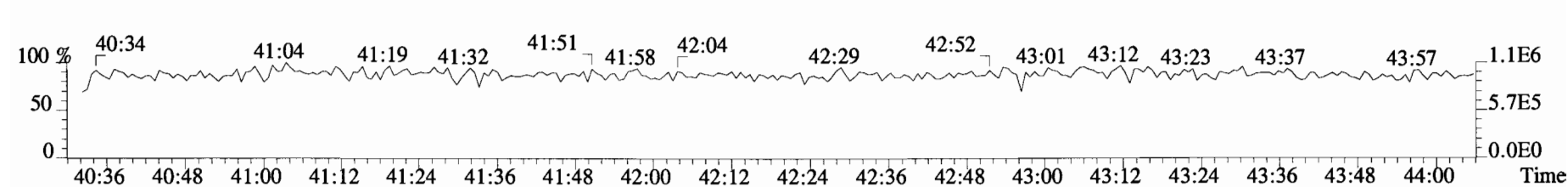
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



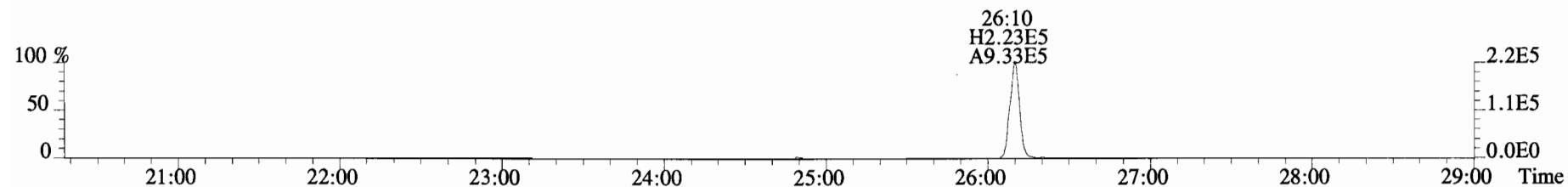
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



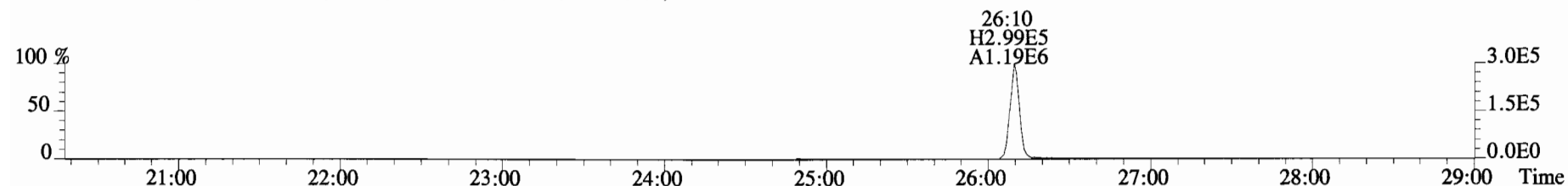
454.9728 S:2 F:5



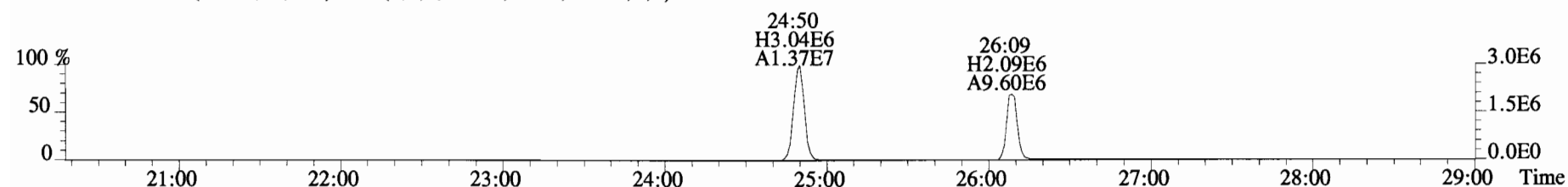
File:141226D2 #1-551 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



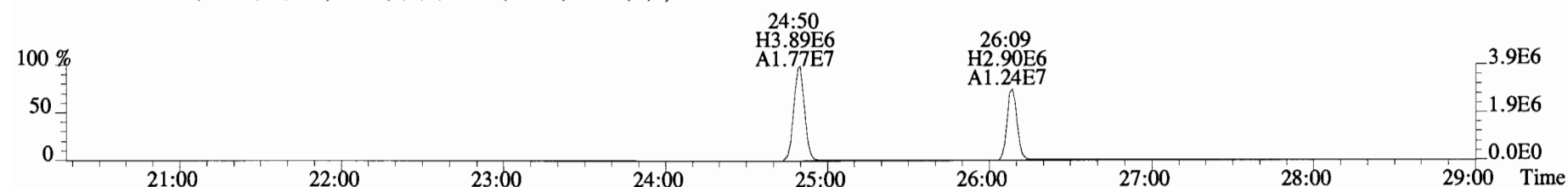
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



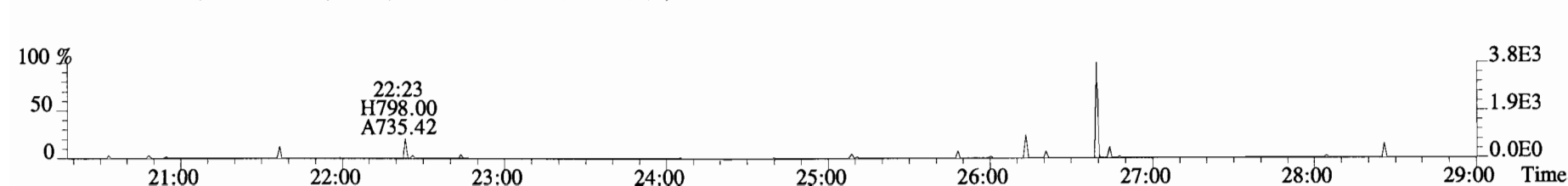
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



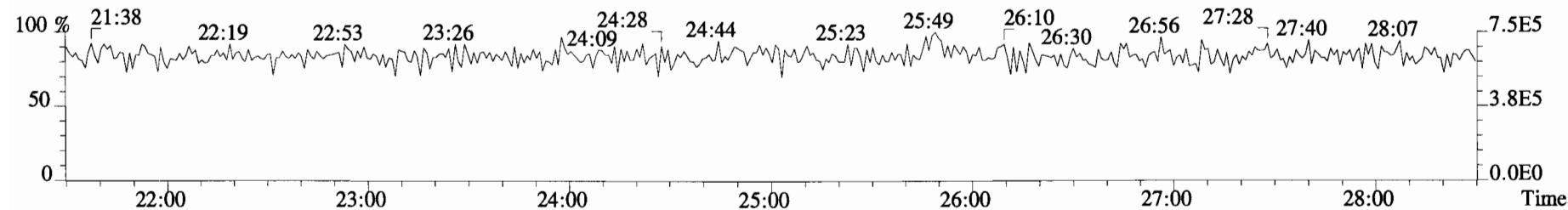
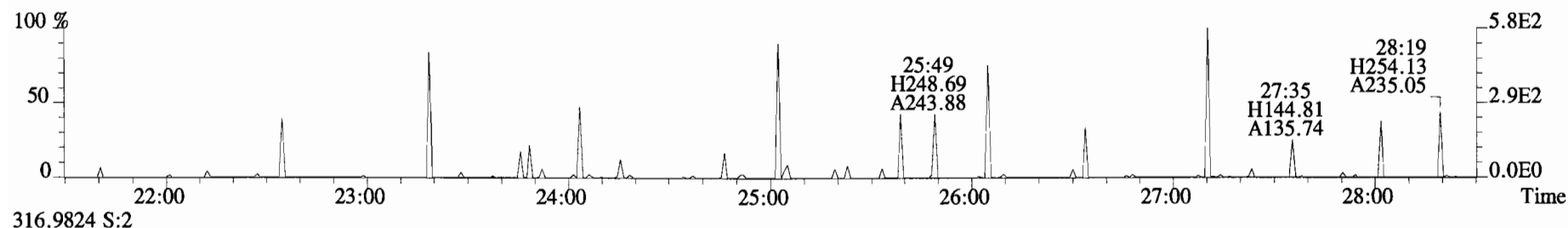
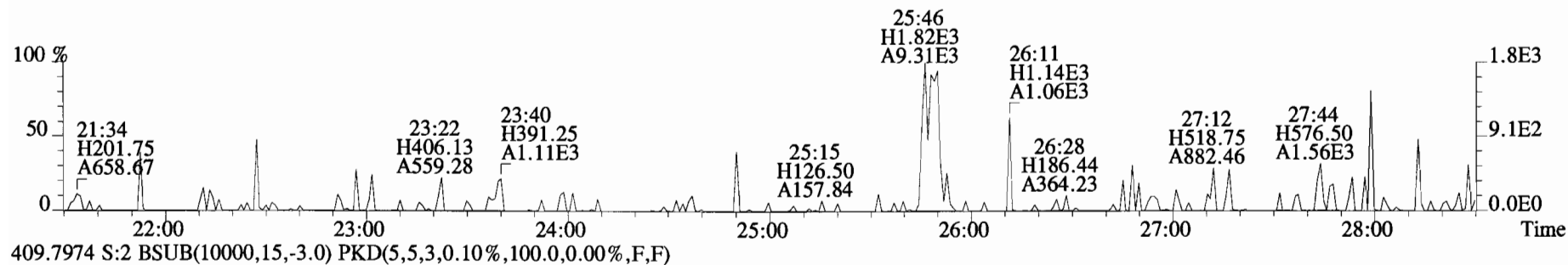
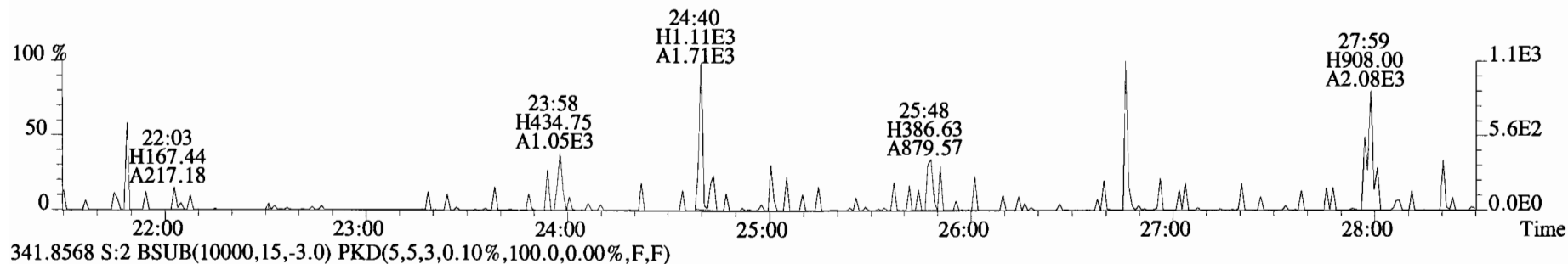
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



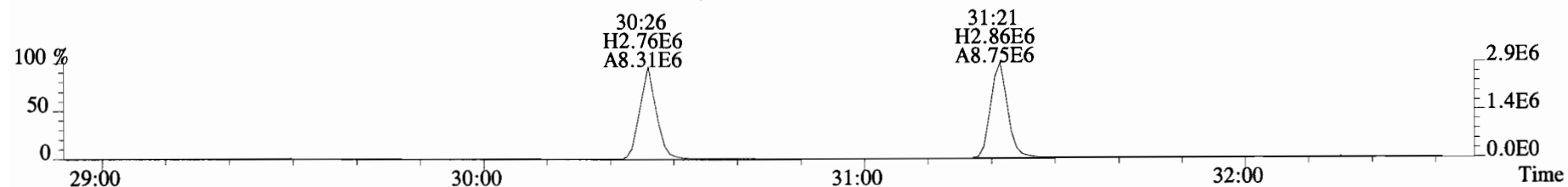
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



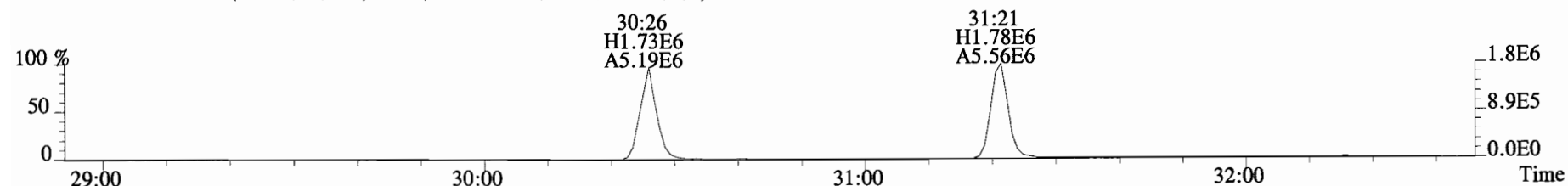
File:141226D2 #1-551 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



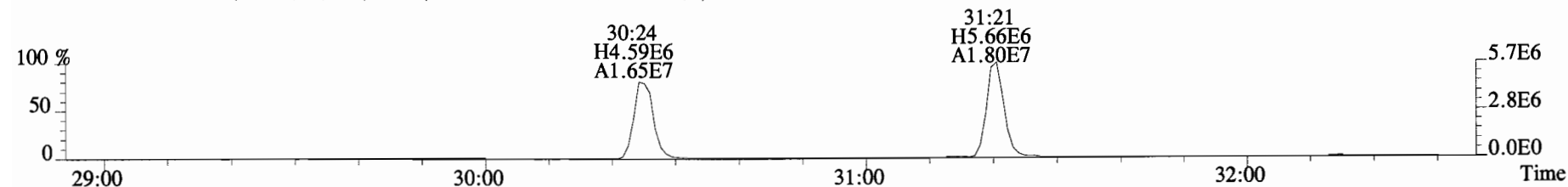
File:141226D2 #1-257 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



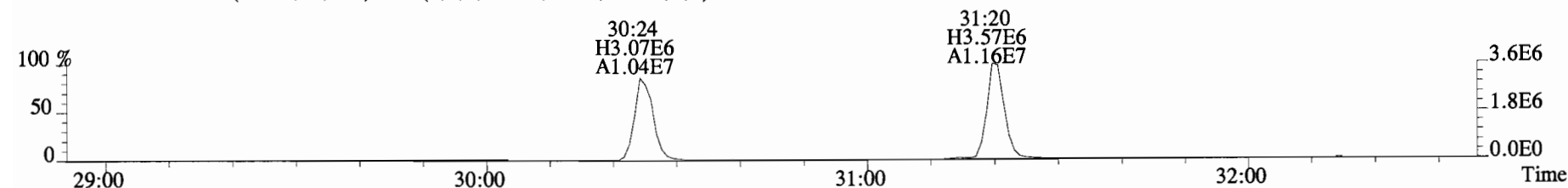
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



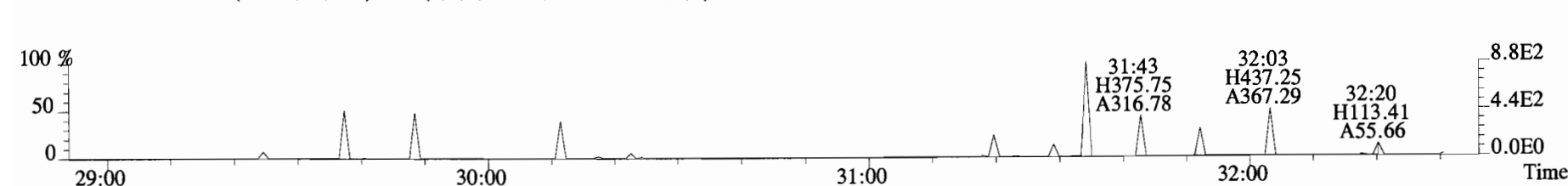
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



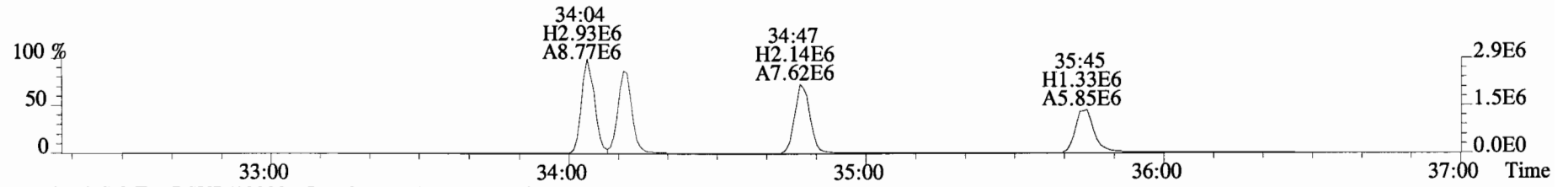
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



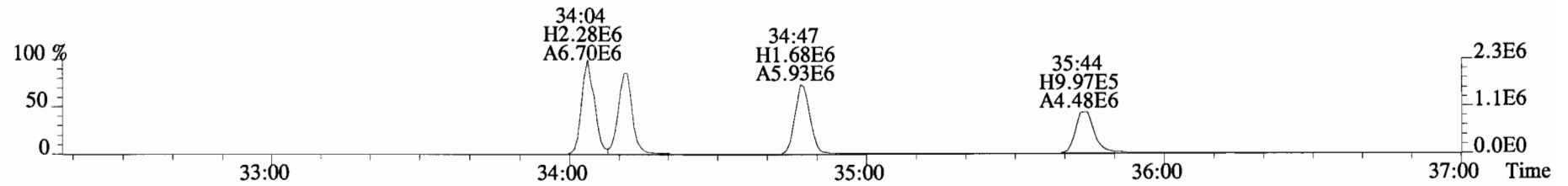
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



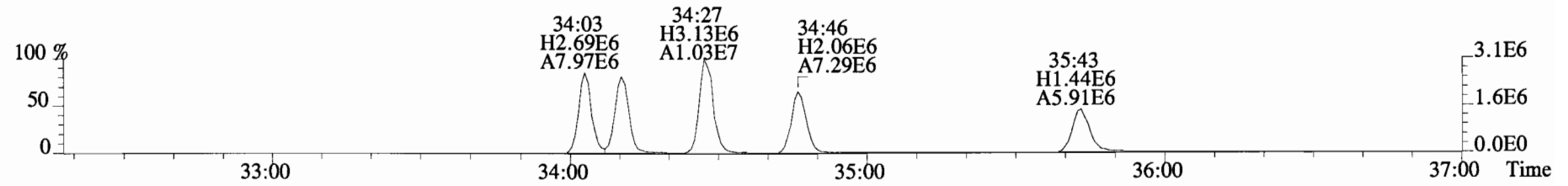
File:141226D2 #1-385 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



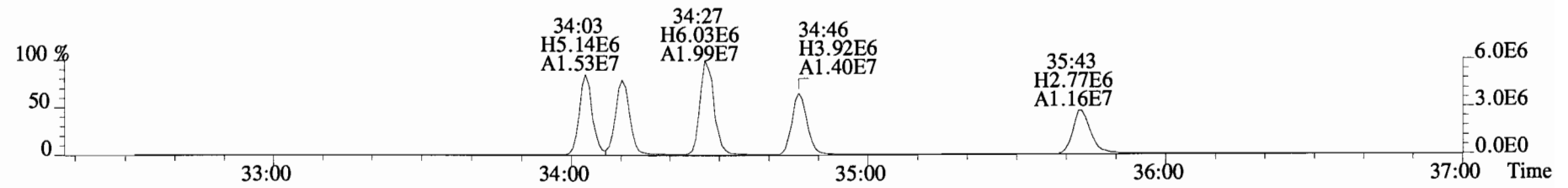
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



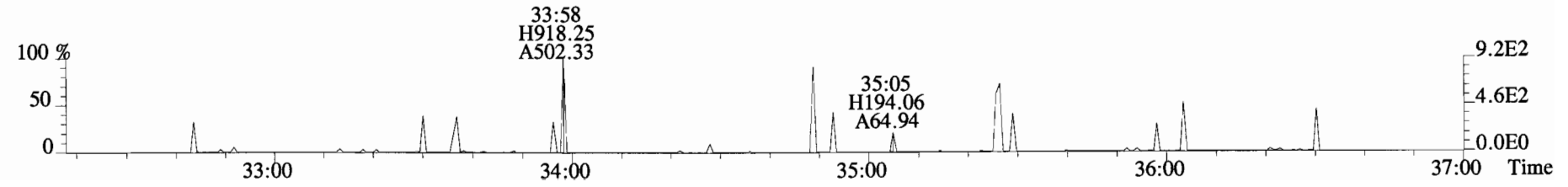
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



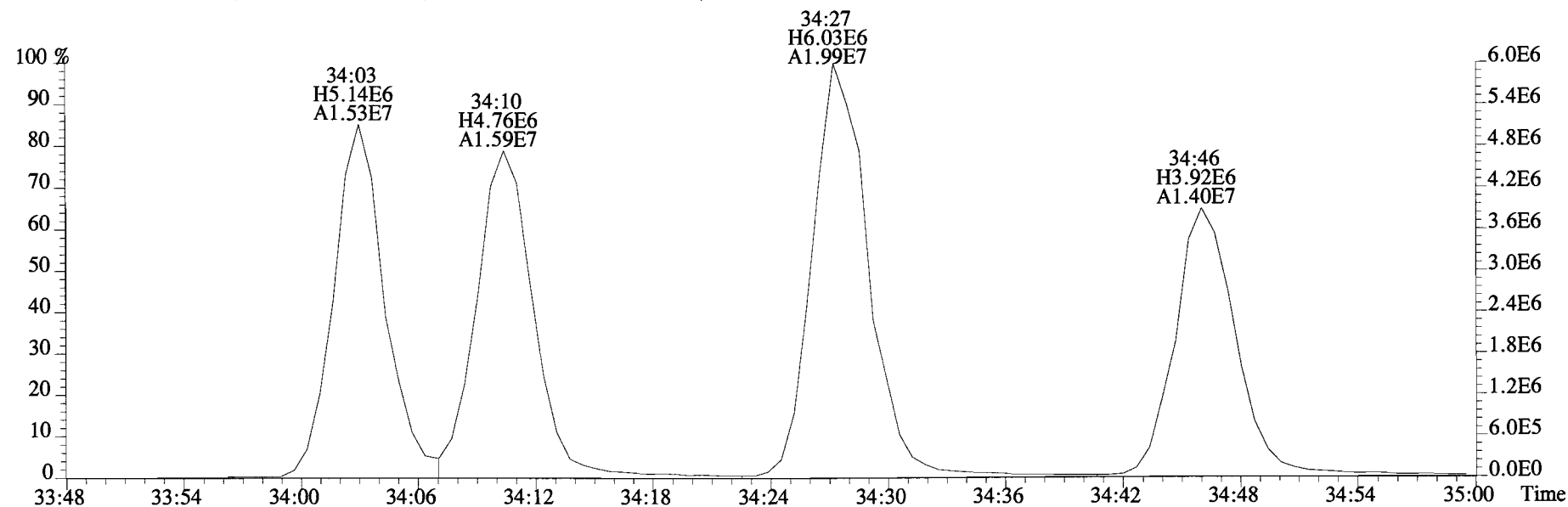
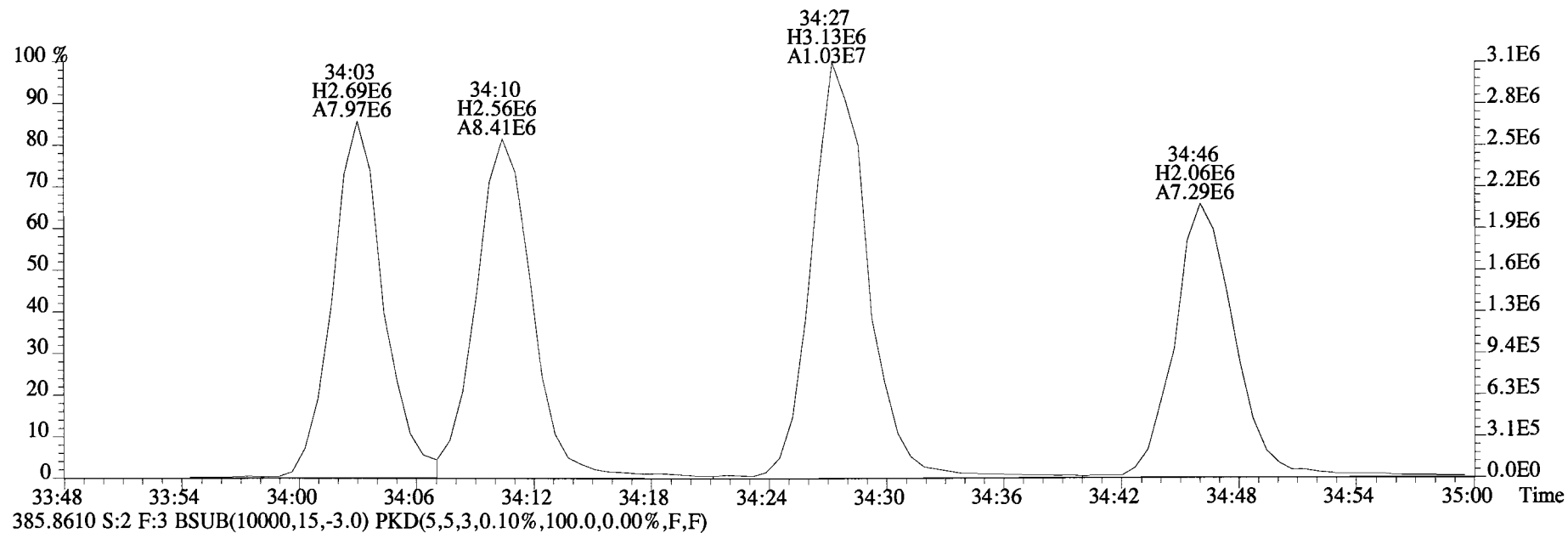
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



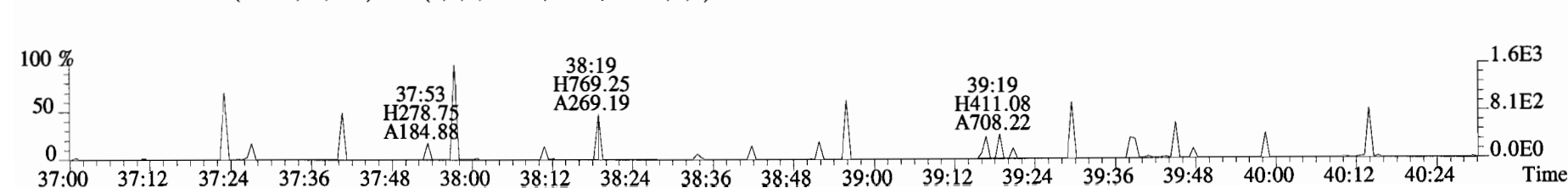
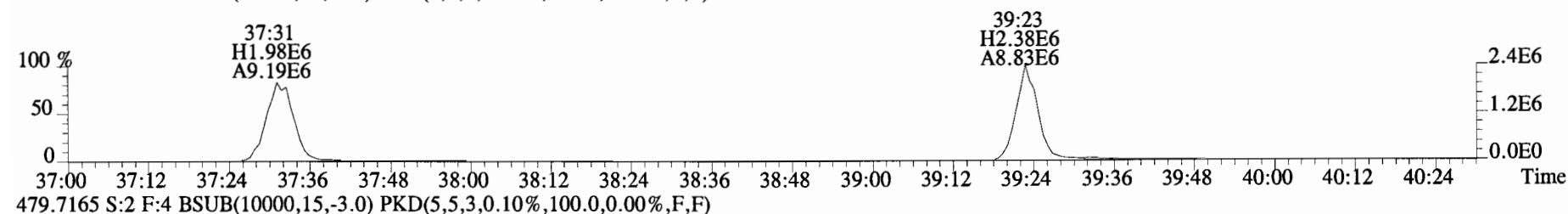
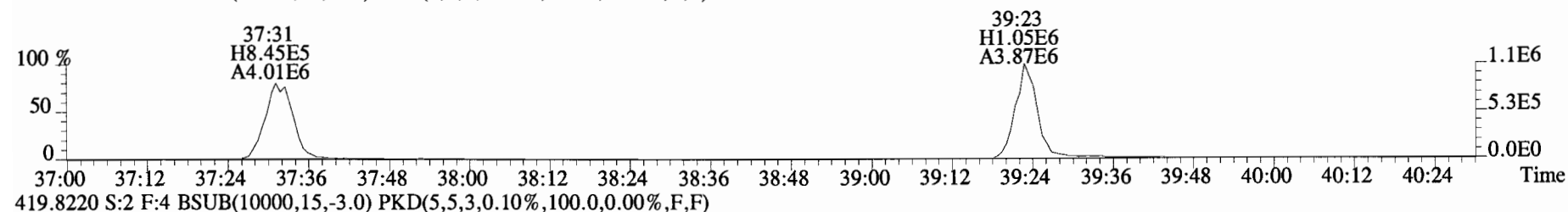
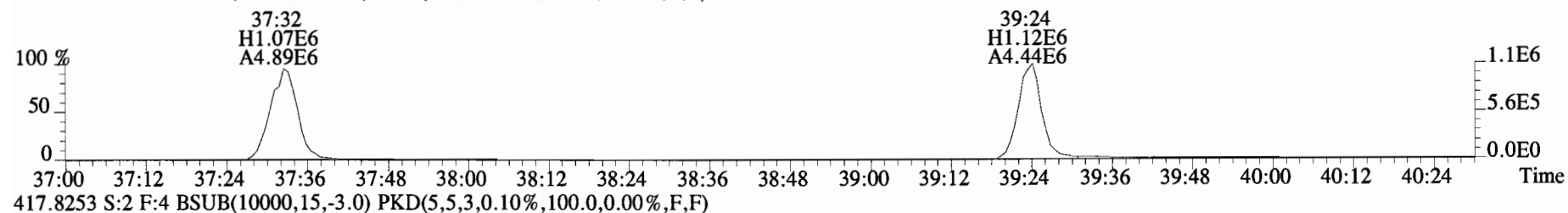
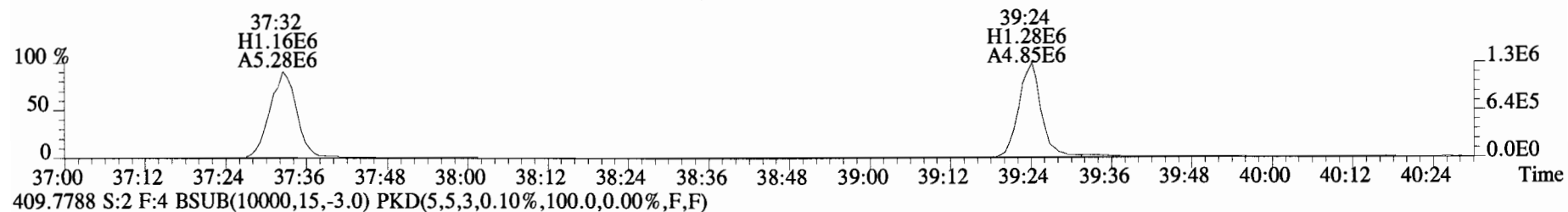
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



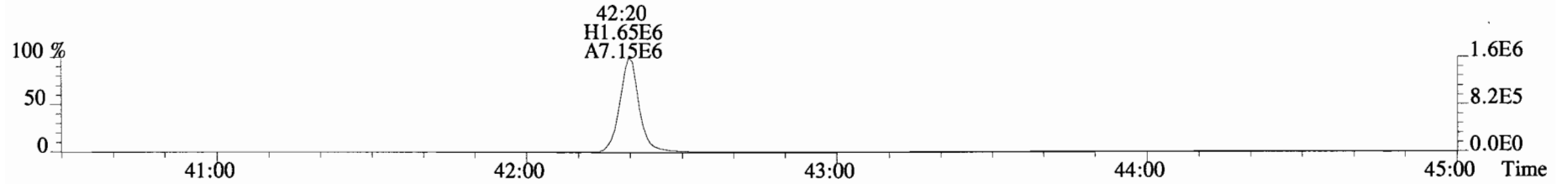
File:141226D2 #1-385 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



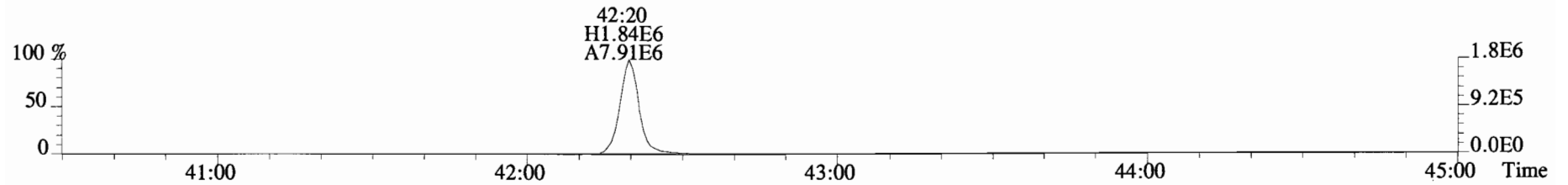
File:141226D2 #1-326 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



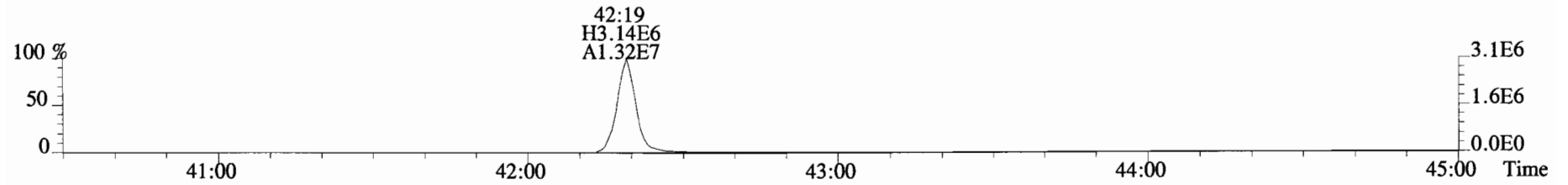
File:141226D2 #1-388 Acq:26-DEC-2014 21:12:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B4L0130-BS1 OPR 1 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



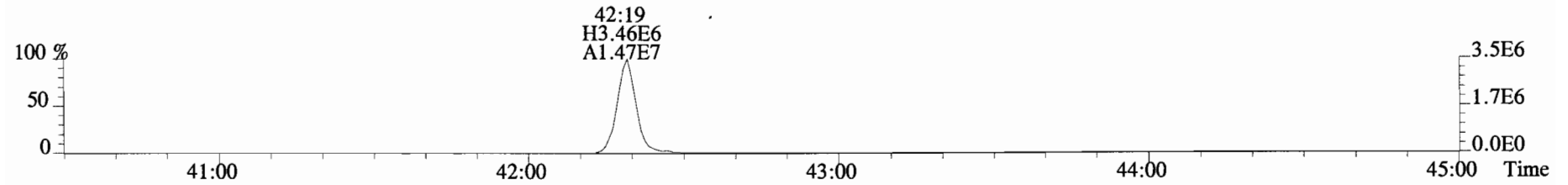
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



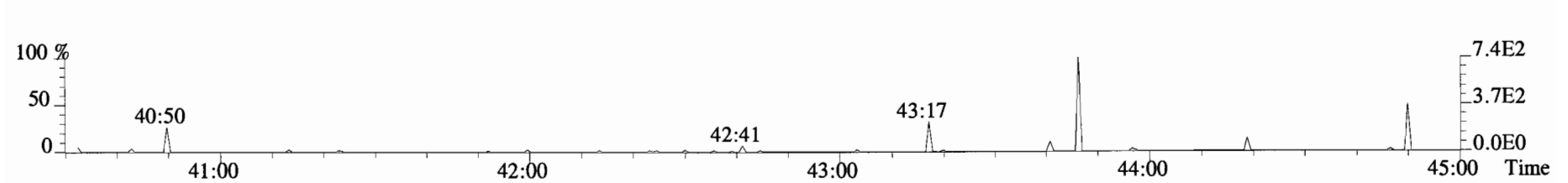
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Totals class: TCDD EMPC

Entry #: 19

Run: 10 File: 141226D2 S: 5 I: 1 F: 1
 Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 293.84 Unnamed Concentration: 244.861

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
23:19	1.234e+05	1.678e+05	0.73	y	2.912e+05	30.954
23:43	1.009e+05	1.268e+05	0.80	y	2.277e+05	24.204
24:10	6.000e+04	7.196e+04	0.83	y	1.320e+05	14.026
24:58	1.852e+04	2.278e+04	0.81	y	4.130e+04	4.3897
25:12	7.772e+04	1.118e+05	0.70	y	1.895e+05	20.142
25:24	1.984e+05	2.524e+05	0.79	y	4.507e+05	47.910
25:35	3.689e+04	4.863e+04	0.76	y	8.553e+04	9.0909
25:50	3.763e+04	4.611e+04	0.82	y	8.374e+04	8.9011
25:59	5.141e+04	7.489e+04	0.69	y	1.263e+05	13.424
26:21	6.154e+04	8.811e+04	0.70	y	1.497e+05	15.907
26:28	7.613e+03	7.277e+03	1.05	n	1.288e+04	1.3691
26:42	5.600e+04	7.547e+04	0.74	y	1.315e+05	13.974
26:50	1.315e+04	1.573e+04	0.84	y	2.888e+04	3.0695
26:58	1.827e+05	2.781e+05	0.66	y	4.608e+05	48.980
27:16	1.131e+05	1.443e+05	0.78	y	2.574e+05	27.358
27:23	1.280e+04	2.239e+04	0.57	n	2.942e+04	3.1275
27:33	8.480e+03	7.941e+03	1.07	n	1.406e+04	1.4940
27:52	2.061e+04	3.131e+04	0.66	y	5.192e+04	5.5189

2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 10 File: 141226D2 S: 5 I: 1 F: 2
 Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 1827.7 Unnamed Concentration: 1394.092

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
29:31	1.590e+06	2.593e+06	0.61 y	4.183e+06	415.17	
29:59	3.302e+05	5.512e+05	0.60 y	8.814e+05	87.487	
30:27	4.960e+05	7.737e+05	0.64 y	1.270e+06	126.03	
30:36	1.118e+06	1.891e+06	0.59 y	3.009e+06	298.64	
30:41	4.665e+05	7.373e+05	0.63 y	1.204e+06	119.48	
30:54	7.852e+05	1.265e+06	0.62 y	2.050e+06	203.48	
31:13	8.579e+04	1.471e+05	0.58 y	2.329e+05	23.120	
31:38	1.672e+06	2.697e+06	0.62 y	4.369e+06	433.62	1,2,3,7,8-PeCDD
31:43	1.695e+05	3.186e+05	0.53 n	4.386e+05	43.536	
31:59	2.986e+05	4.787e+05	0.62 y	7.773e+05	77.156	

Totals class: HxCDD EMPC

Entry #: 23

Run: 10 File: 141226D2 S: 5 I: 1 F: 3
 Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 21357

Unnamed Concentration: 15334.736

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
33:24	2.504e+07	2.032e+07	1.23 y	4.535e+07	5532.6
33:58	3.224e+06	2.586e+06	1.25 y	5.810e+06	708.73
34:14	3.899e+07	3.116e+07	1.25 y	7.015e+07	8557.1
34:22	1.421e+06	1.177e+06	1.21 y	2.597e+06	316.85
34:55	4.393e+06	3.557e+06	1.23 y	7.950e+06	1026.2 1,2,3,4,7,8-HxCDD
35:02	1.421e+07	1.137e+07	1.25 y	2.558e+07	3013.2 1,2,3,6,7,8-HxCDD
35:14	9.729e+05	8.265e+05	1.18 y	1.799e+06	219.50
35:20	9.133e+06	7.407e+06	1.23 y	1.654e+07	1983.3 1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 10 File: 141226D2 S: 5 I: 1 F: 4
Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 192820

Unnamed Concentration: 89307.350

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:56	4.762e+08	4.629e+08	1.03 y	9.391e+08	89307	
38:50	5.548e+08	5.336e+08	1.04 y	1.088e+09	103510	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 10 File: 141226D2 S: 5 I: 1 F: 1
 Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 1078.1 Unnamed Concentration: 998.576

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
21:06	6.916e+04	8.210e+04	0.84	y	1.513e+05	11.628
21:40	1.232e+05	1.595e+05	0.77	y	2.827e+05	21.733
22:18	1.216e+06	1.538e+06	0.79	y	2.754e+06	211.72
22:51	2.965e+05	3.762e+05	0.79	y	6.728e+05	51.720
23:17	4.541e+05	5.498e+05	0.83	y	1.004e+06	77.175
23:45	5.943e+05	7.774e+05	0.76	y	1.372e+06	105.45
23:54	1.369e+05	1.745e+05	0.78	y	3.115e+05	23.943
24:03	1.674e+05	2.089e+05	0.80	y	3.763e+05	28.929
24:27	3.048e+04	3.134e+04	0.97	n	5.548e+04	4.2648
24:35	8.904e+04	1.170e+05	0.76	y	2.060e+05	15.840
24:44	5.257e+05	6.959e+05	0.76	y	1.222e+06	93.909
24:50	4.761e+05	5.931e+05	0.80	y	1.069e+06	82.194
25:17	2.747e+05	3.744e+05	0.73	y	6.491e+05	49.903
25:33	9.214e+04	1.273e+05	0.72	y	2.194e+05	16.866
25:44	5.181e+04	5.647e+04	0.92	n	9.994e+04	7.6833
25:56	5.514e+04	7.150e+04	0.77	y	1.266e+05	9.7355
26:02	6.444e+04	7.523e+04	0.86	y	1.397e+05	10.737
26:09	4.632e+05	5.716e+05	0.81	y	1.035e+06	79.557
26:30	5.351e+05	6.620e+05	0.81	y	1.197e+06	92.025
26:44	1.820e+04	2.737e+04	0.66	y	4.556e+04	3.5027
27:33	1.138e+05	1.631e+05	0.70	y	2.770e+05	21.291
27:42	1.129e+05	1.402e+05	0.81	y	2.531e+05	19.454
28:00	2.326e+05	2.730e+05	0.85	y	5.056e+05	38.867

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 10 File: 141226D2 S: 5 I: 1 F: 1
Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 3378.2 Unnamed Concentration: 3378.162

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
27:60	2.940e+07	1.937e+07	1.52 y	4.876e+07	3378.2

Totals class: Total Penta-Furans Entry #: 30

Run: 10 File: 141226D2 S: 5 I: 1 F: 2
 Acquired: 26-DEC-14 23:39:03 Processed: 27-DEC-14 13:28:07

Total Concentration: 2755.7 Unnamed Concentration: 2443.261

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:20	1.235e+06	7.158e+05	1.72	y	1.950e+06	135.12
29:29	1.202e+07	7.665e+06	1.57	y	1.968e+07	1363.5
29:51	1.775e+05	1.230e+05	1.44	y	3.005e+05	20.820
30:02	4.171e+06	2.593e+06	1.61	y	6.764e+06	468.57
30:15	4.970e+05	3.128e+05	1.59	y	8.098e+05	56.100
30:25	1.086e+06	6.633e+05	1.64	y	1.749e+06	119.40
30:40	1.911e+06	1.206e+06	1.58	y	3.117e+06	215.91
30:53	9.485e+04	6.665e+04	1.42	y	1.615e+05	11.188
31:15	2.380e+05	1.582e+05	1.50	y	3.962e+05	27.448
31:21	1.662e+06	1.084e+06	1.53	y	2.746e+06	193.08
31:23	1.067e+06	6.292e+05	1.70	y	1.697e+06	117.53
32:13	2.327e+05	1.576e+05	1.48	y	3.903e+05	27.039

1, 2, 3, 7, 8-PeCDF

2, 3, 4, 7, 8-PeCDF

Totals class: Total Hexa-Furans

Entry #: 32

Run: 10

File: 141226D2

S: 5 I: 1 F: 3

Acquired: 26-DEC-14 23:39:03

Processed: 27-DEC-14 13:28:07

Total Concentration: 30667

Unnamed Concentration: 27328.229

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Concentration	Name
32:52	2.706e+07	2.108e+07	1.28 y	4.814e+07	3500.6	
33:02	1.106e+08	8.600e+07	1.29 y	1.966e+08	14298	
33:23	9.741e+05	7.114e+05	1.37 y	1.685e+06	122.56	
33:35	7.137e+07	5.573e+07	1.28 y	1.271e+08	9241.7	
33:57	1.281e+06	9.987e+05	1.28 y	2.279e+06	165.73	
34:03	8.770e+06	6.722e+06	1.30 y	1.549e+07	995.82	1,2,3,4,7,8-HxCDF
34:10	7.988e+06	6.197e+06	1.29 y	1.418e+07	931.35	1,2,3,6,7,8-HxCDF
34:46	9.004e+06	6.861e+06	1.31 y	1.586e+07	1185.0	2,3,4,6,7,8-HxCDF
35:45	1.404e+06	1.066e+06	1.32 y	2.469e+06	226.76	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 34

Run: 10

File: 141226D2

S: 5 I: 1 F: 4

Acquired: 26-DEC-14 23:39:03

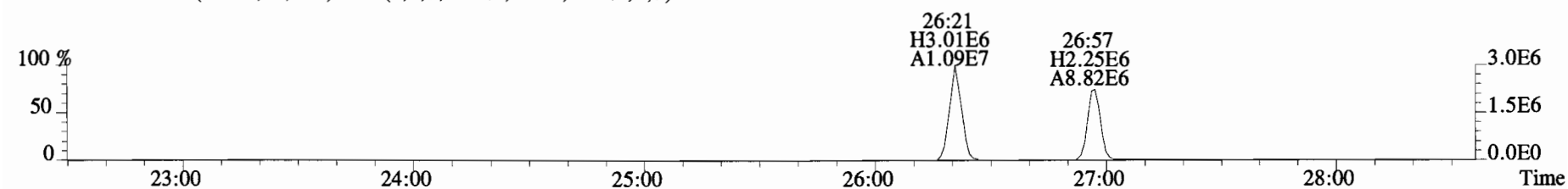
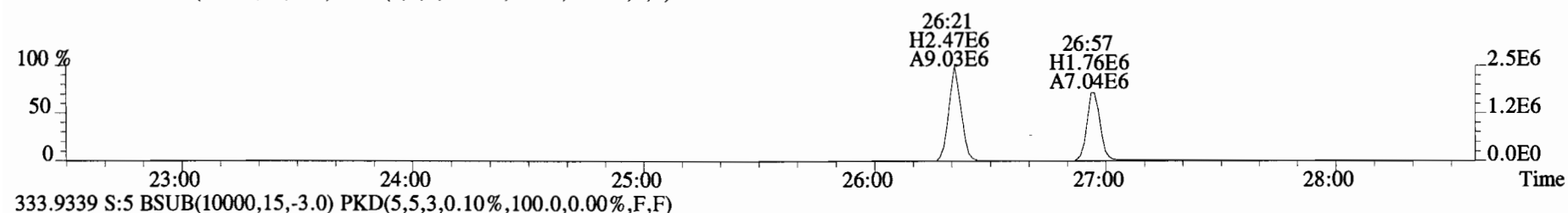
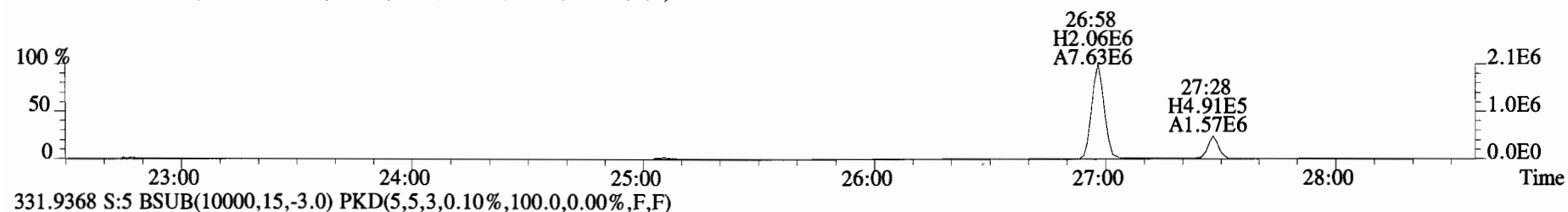
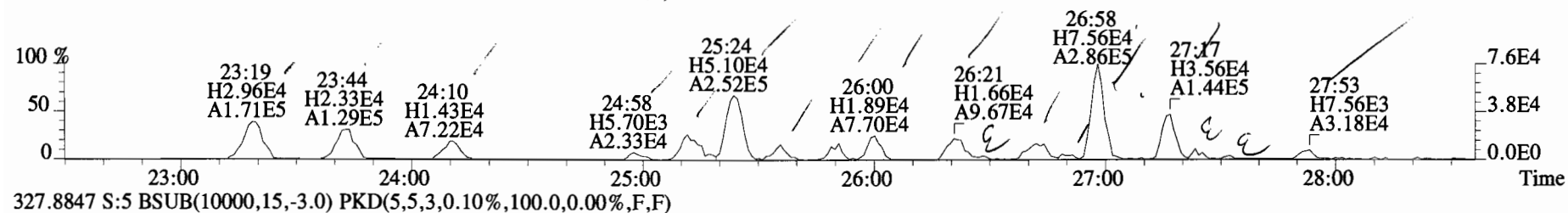
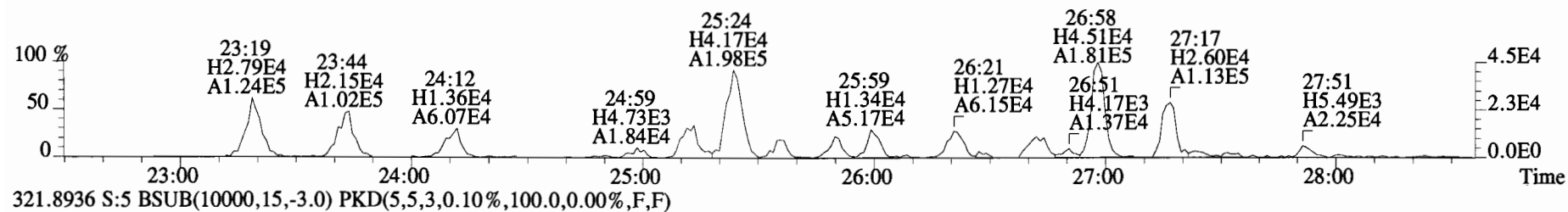
Processed: 27-DEC-14 13:28:07

Total Concentration: 70794

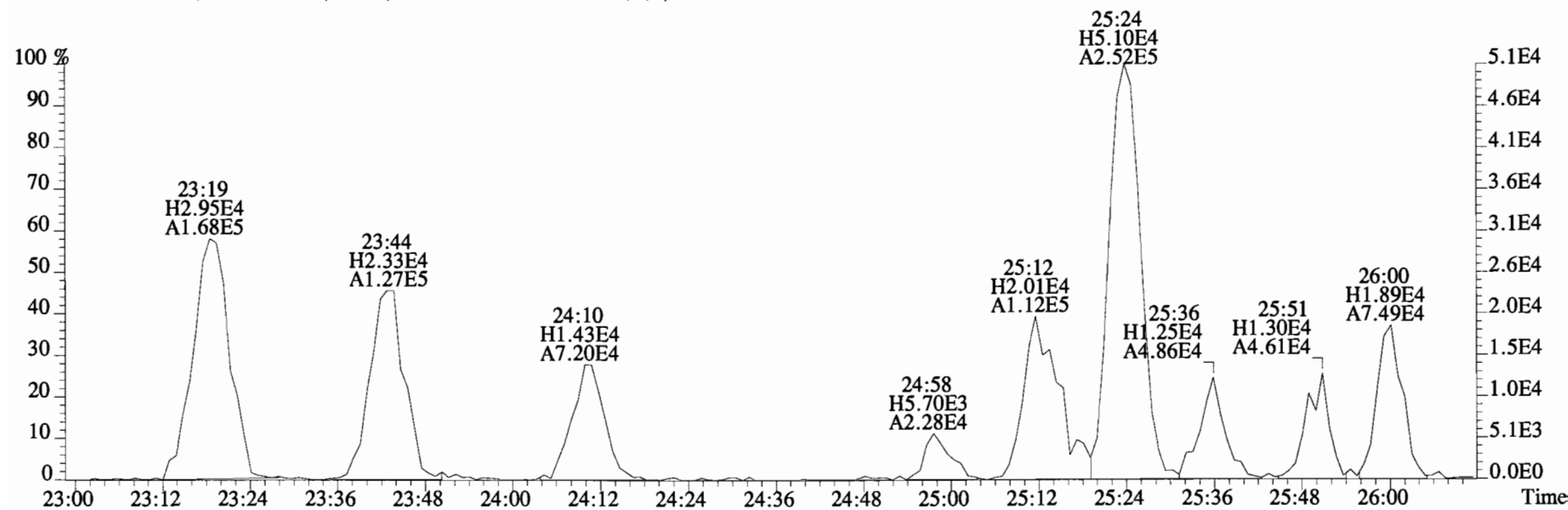
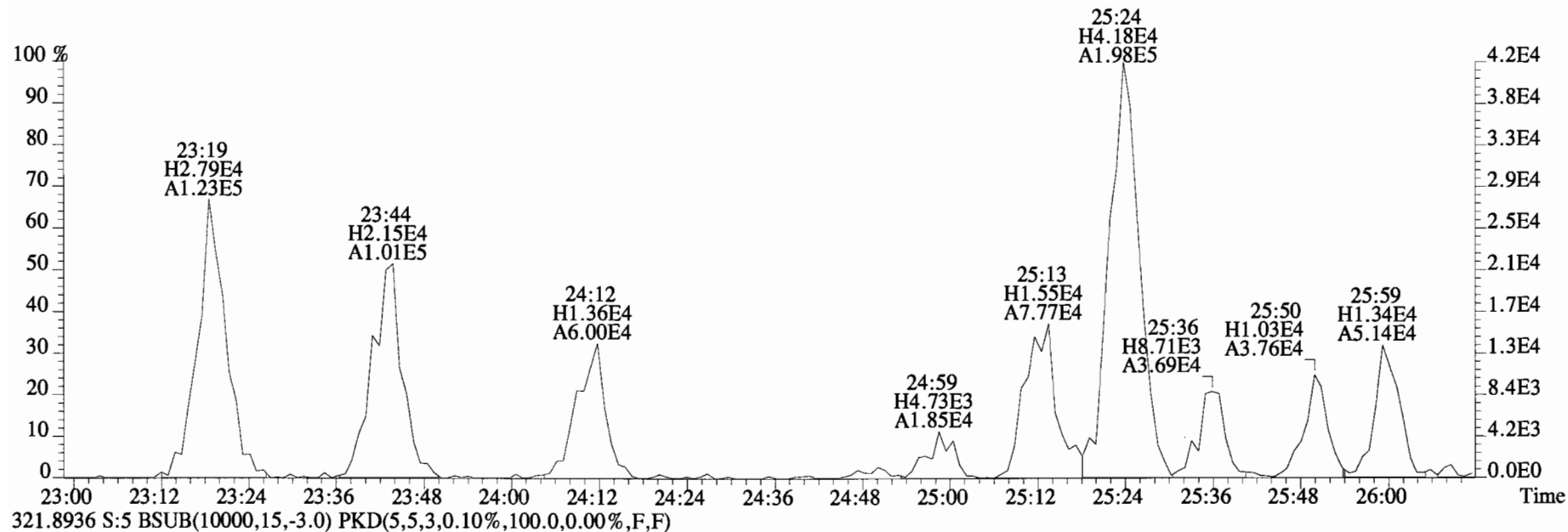
Unnamed Concentration: 44119.240

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:32	1.739e+08	1.616e+08	1.08 y	3.355e+08	25266	1,2,3,4,6,7,8-HpCDF
37:56	3.093e+06	2.812e+06	1.10 y	5.905e+06	478.65	
38:09	2.803e+08	2.580e+08	1.09 y	5.384e+08	43641	
39:23	8.368e+06	7.723e+06	1.08 y	1.609e+07	1408.5	1,2,3,4,7,8,9-HpCDF

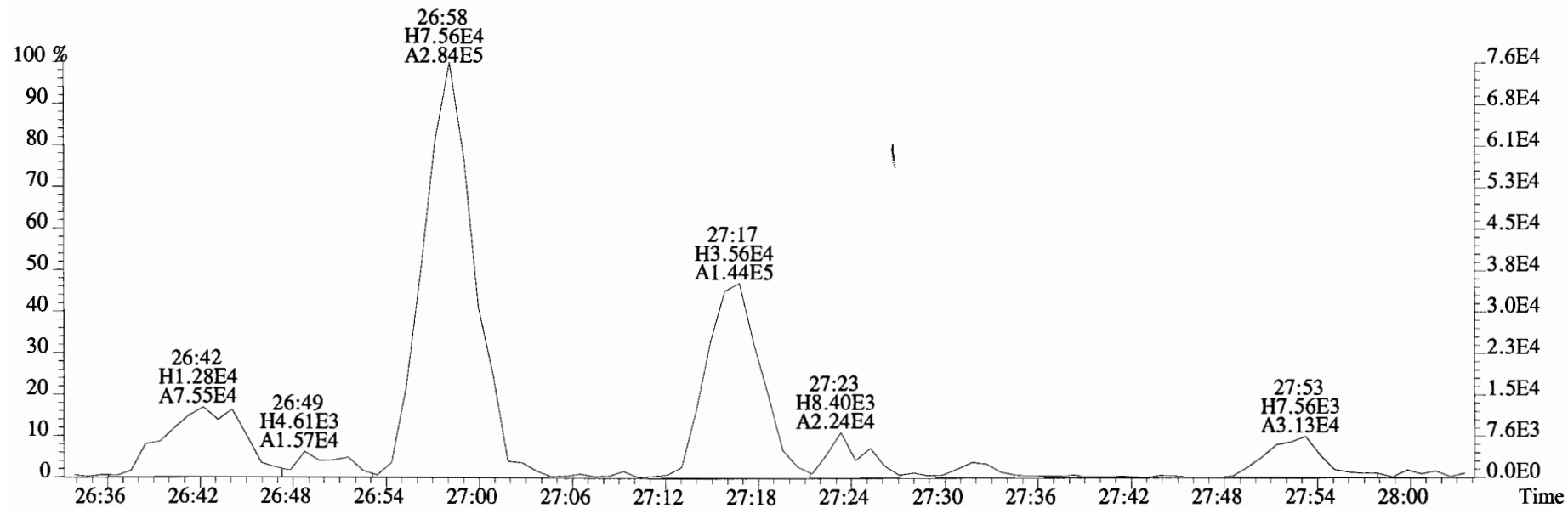
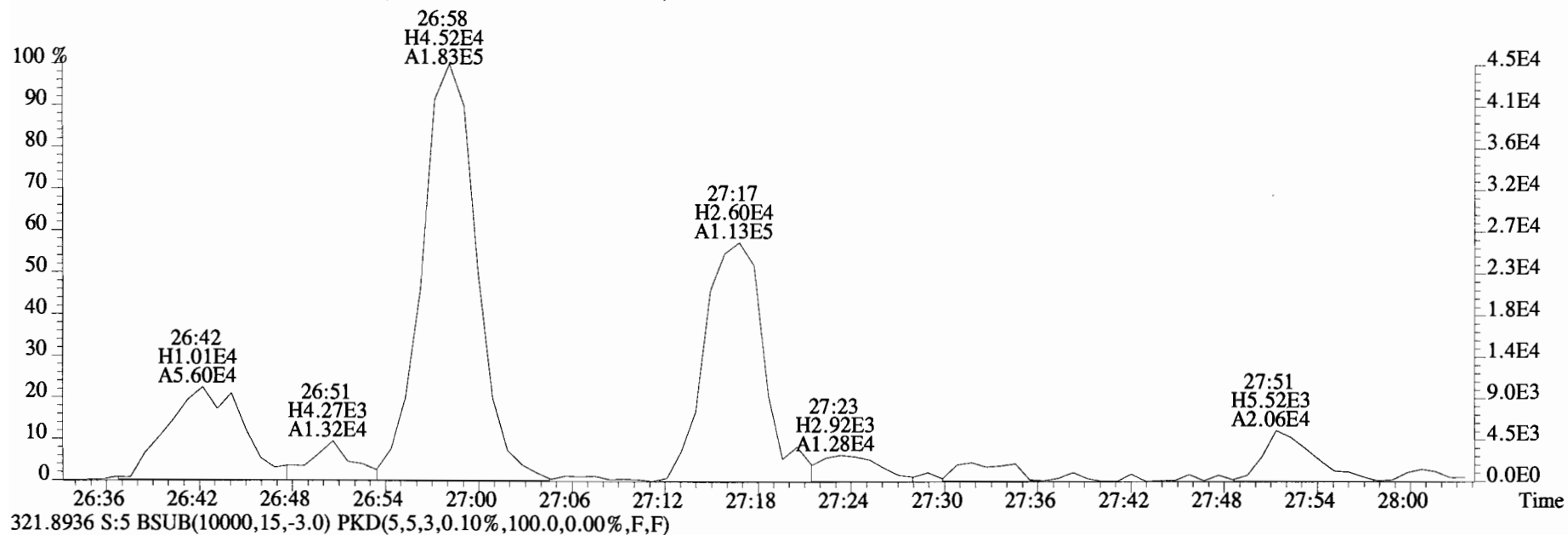
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



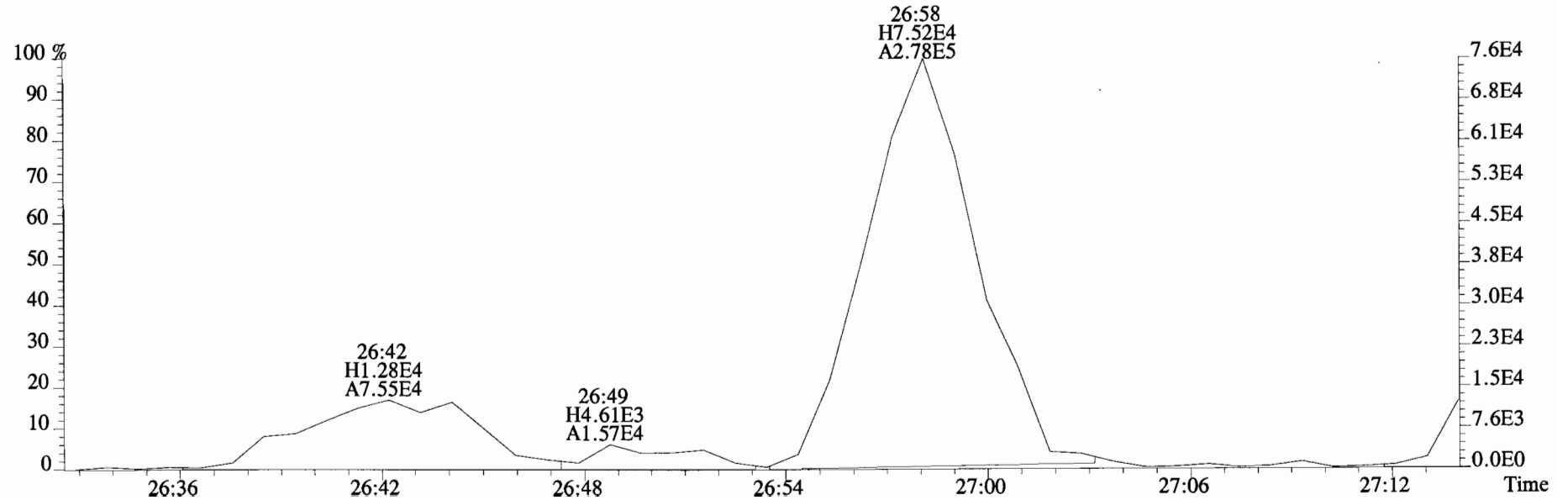
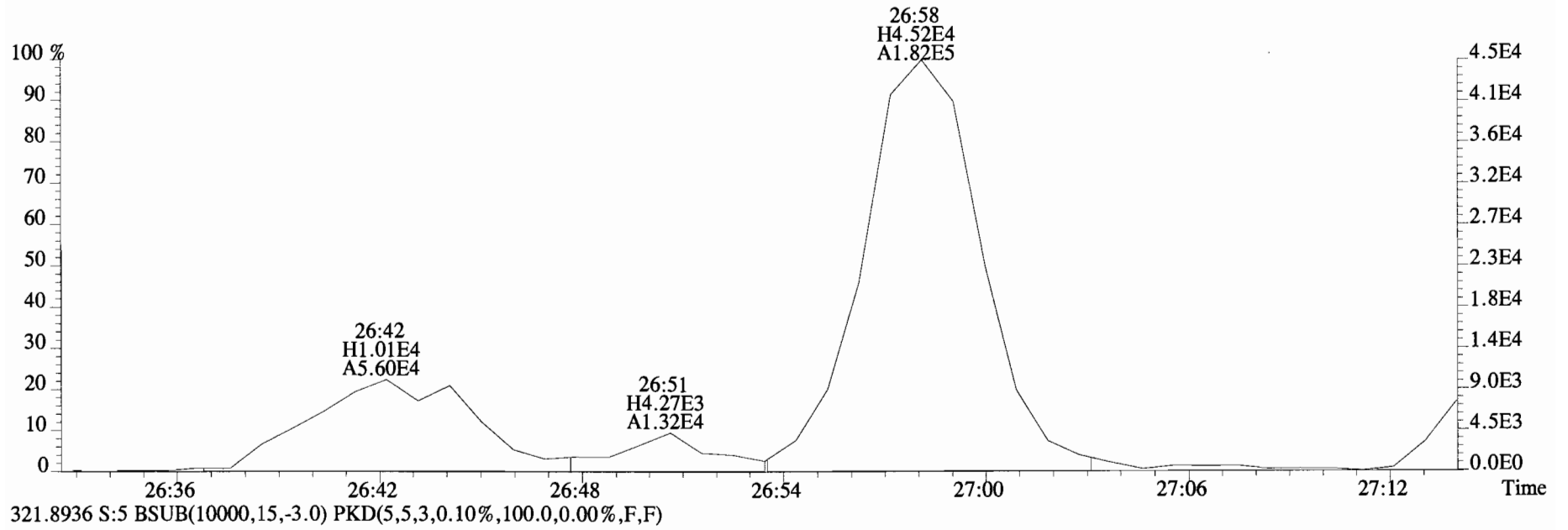
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 Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
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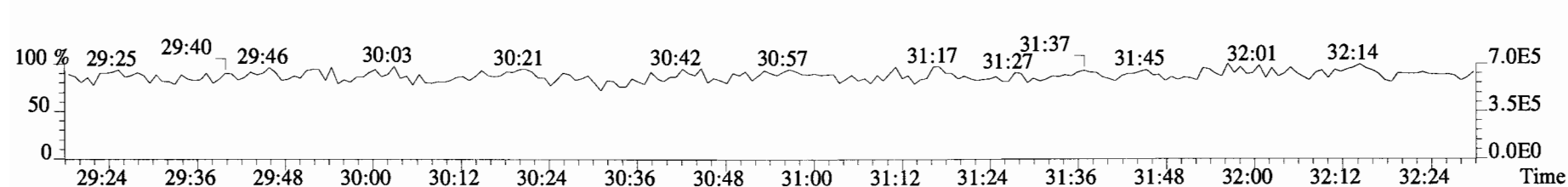
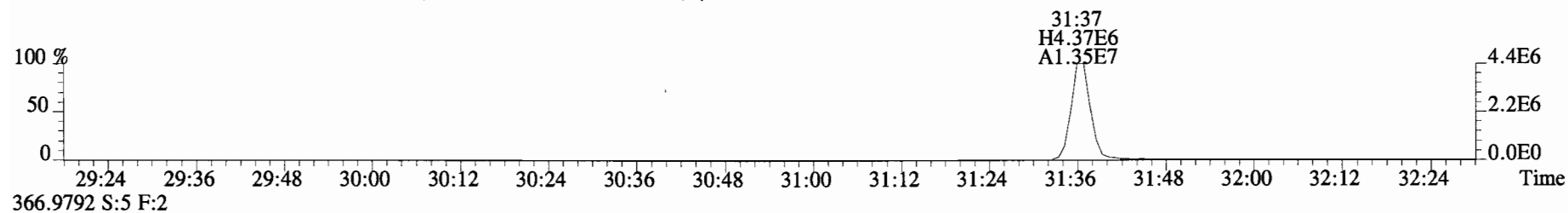
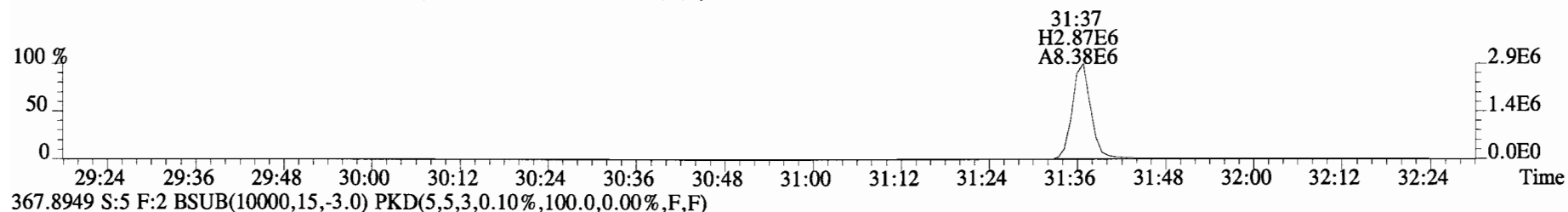
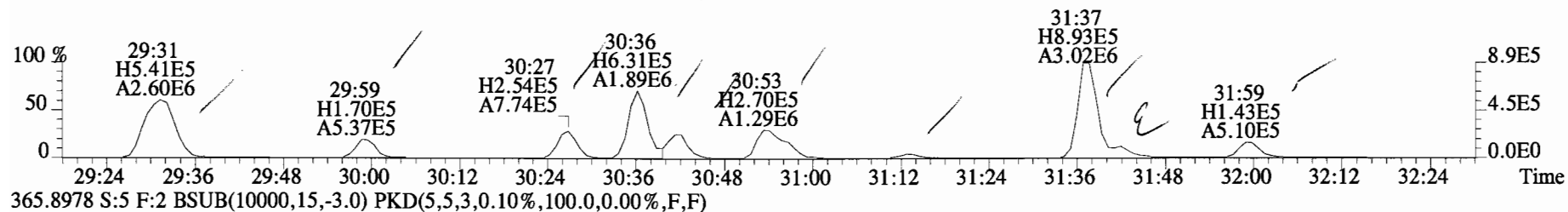
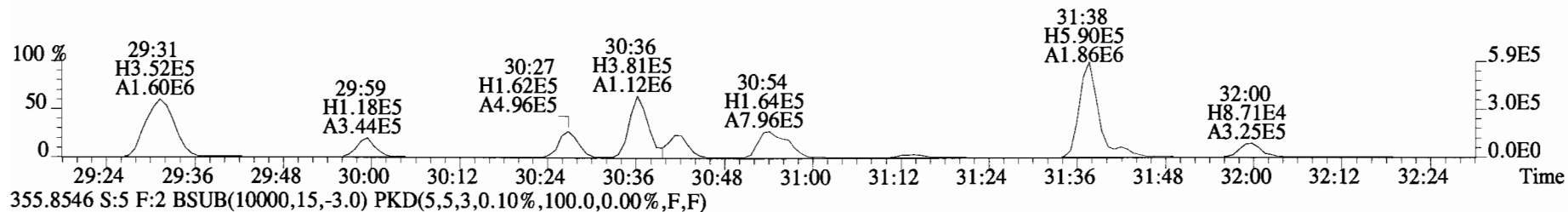
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 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



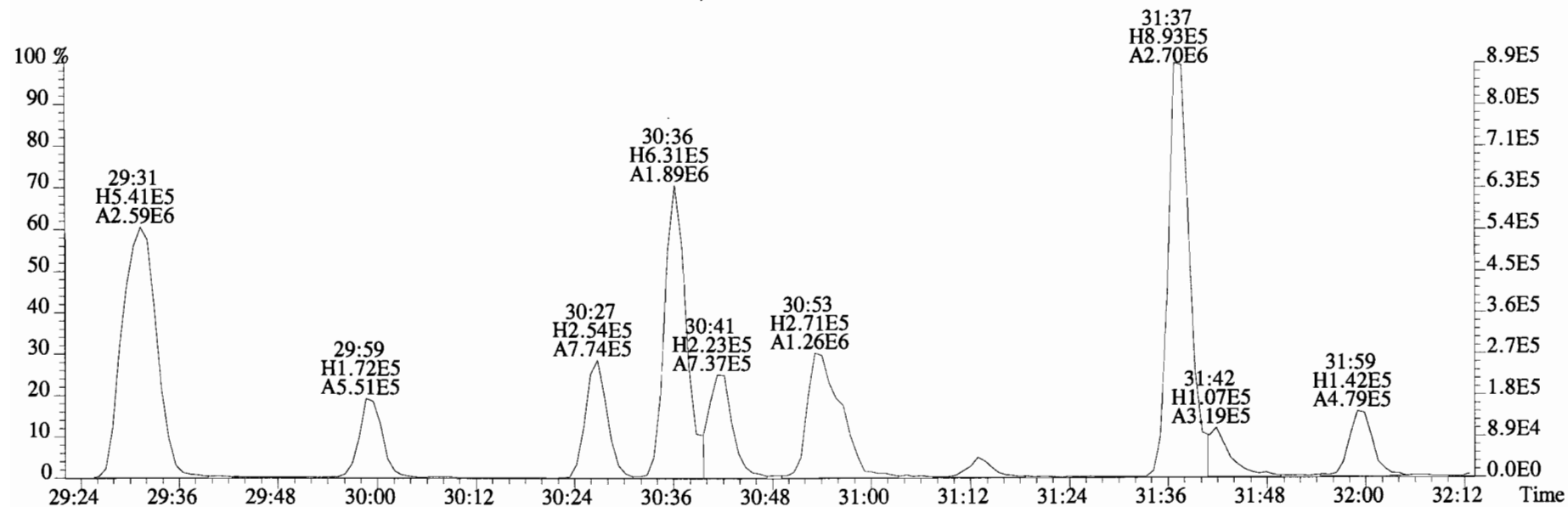
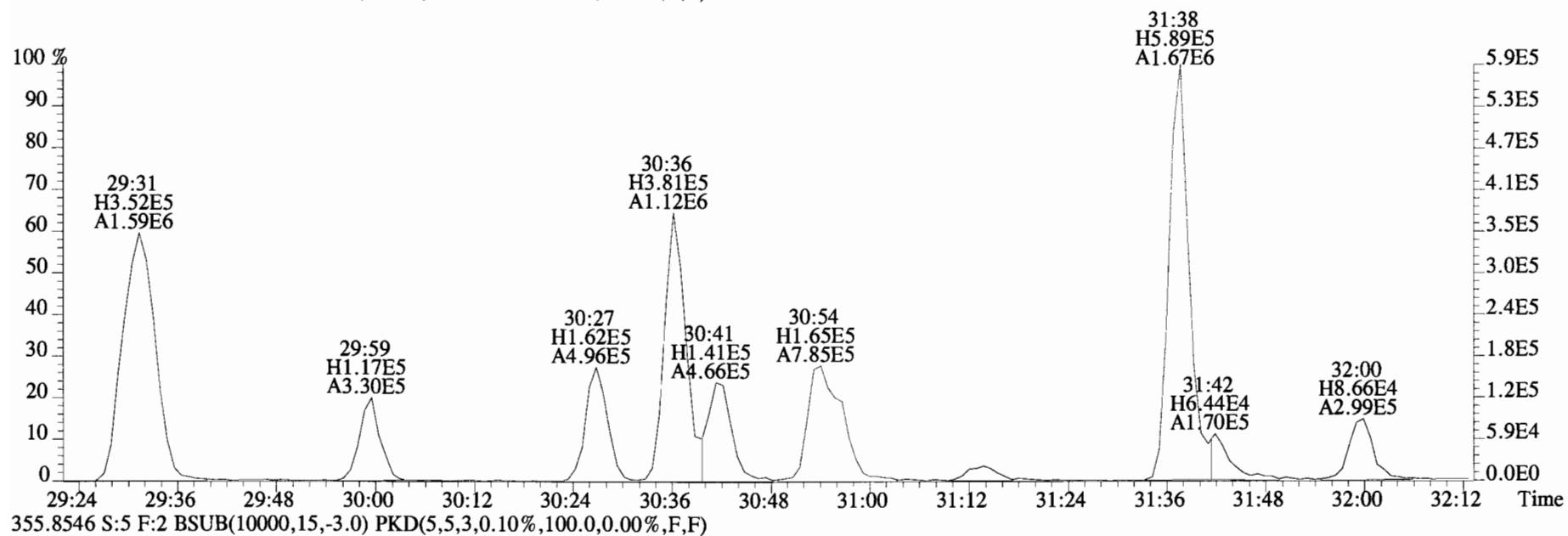
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



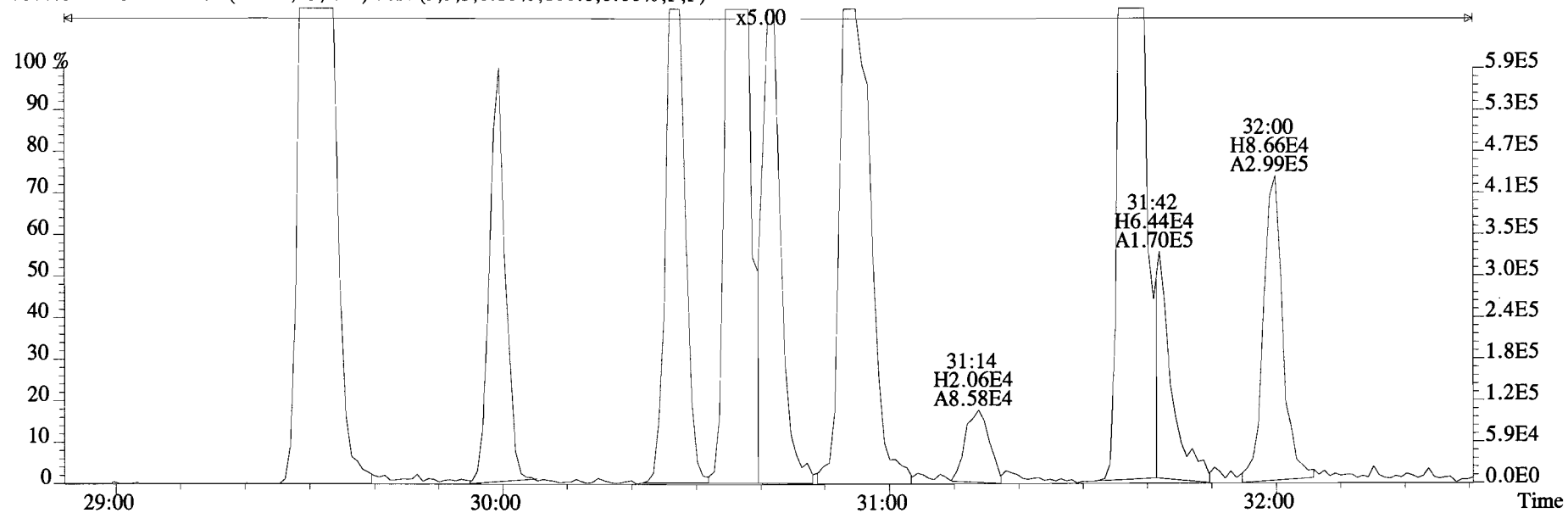
File:141226D2 #1-257 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



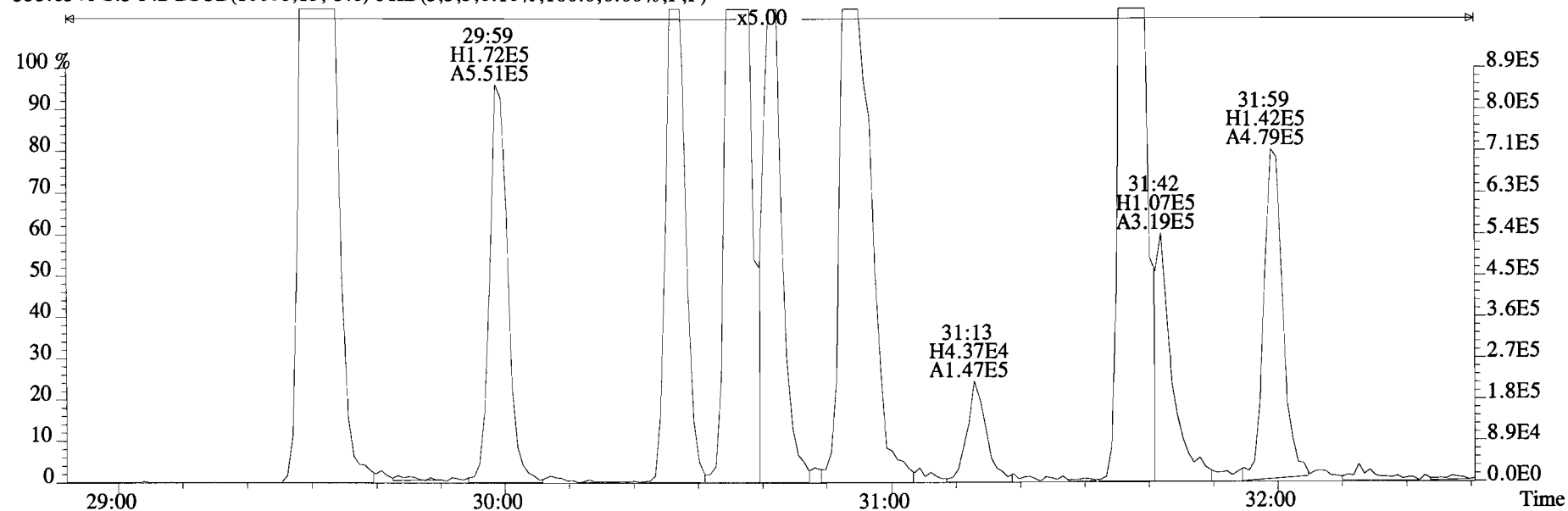
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 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



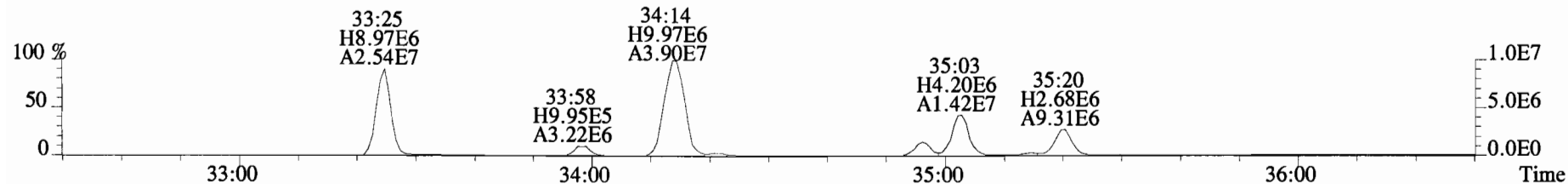
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 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



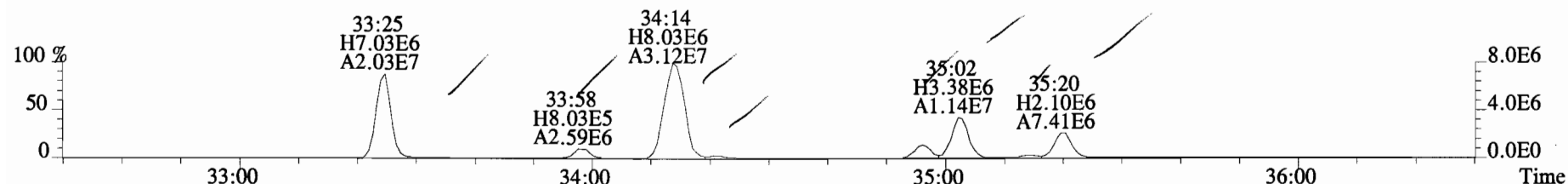
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



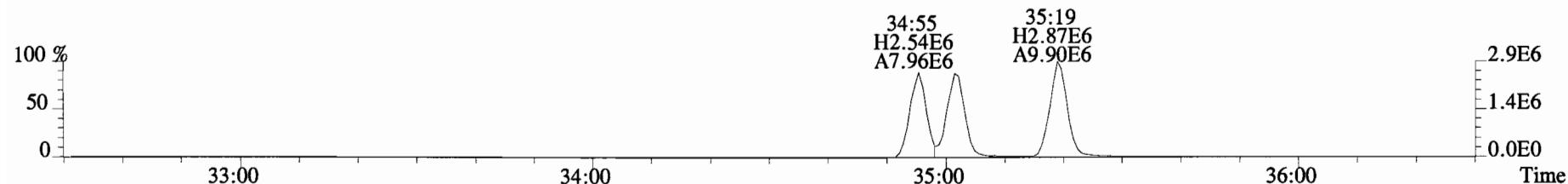
File:141226D2 #1-385 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



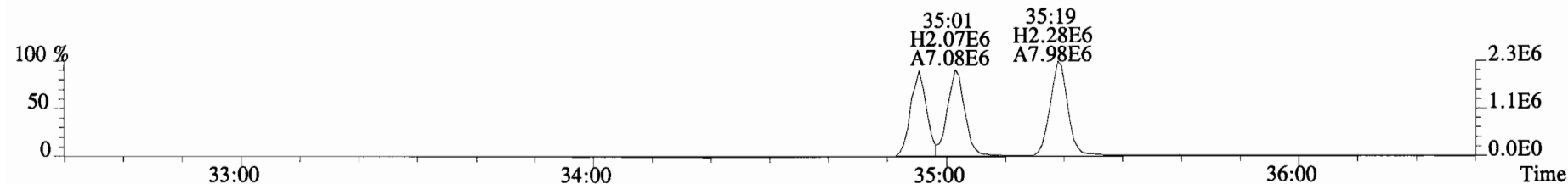
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



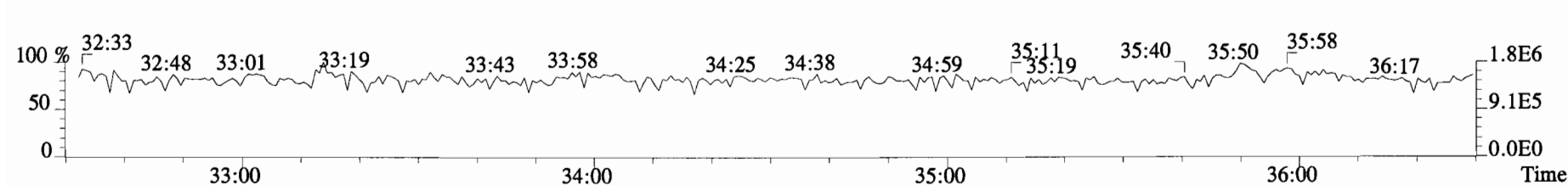
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



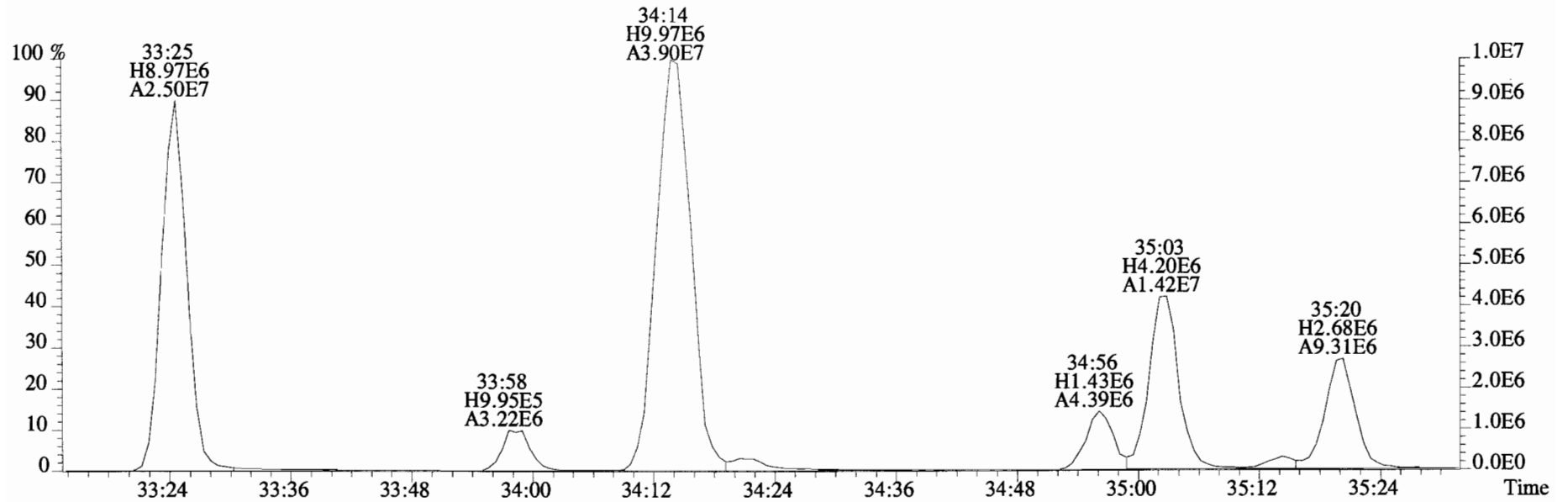
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



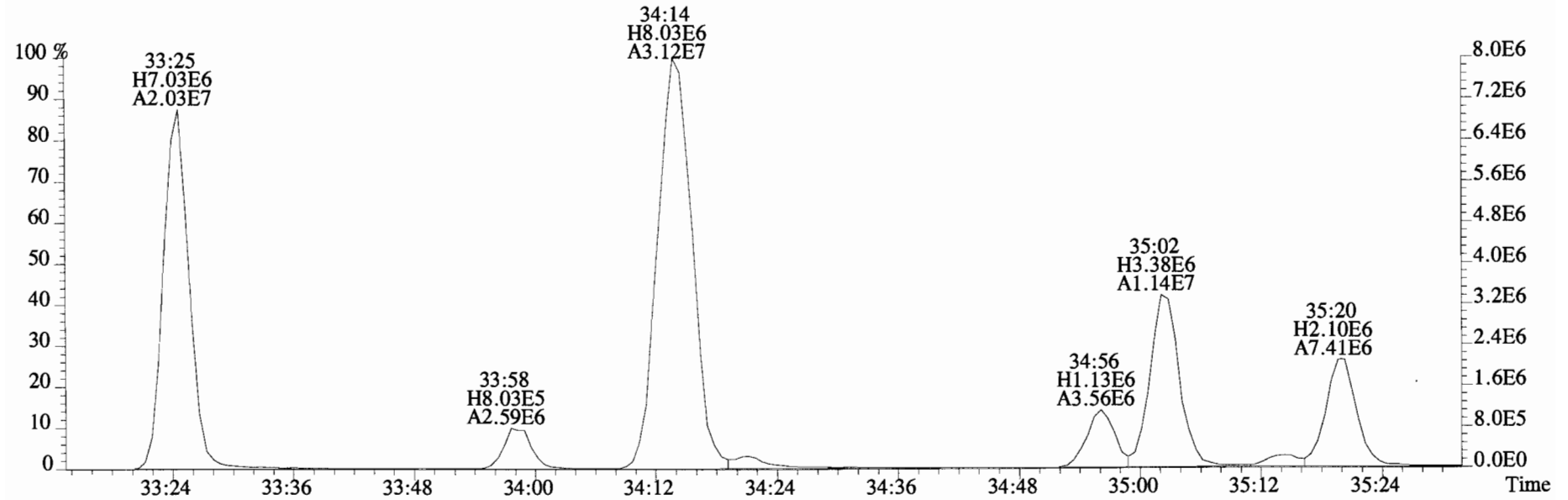
380.9760 S:5 F:3



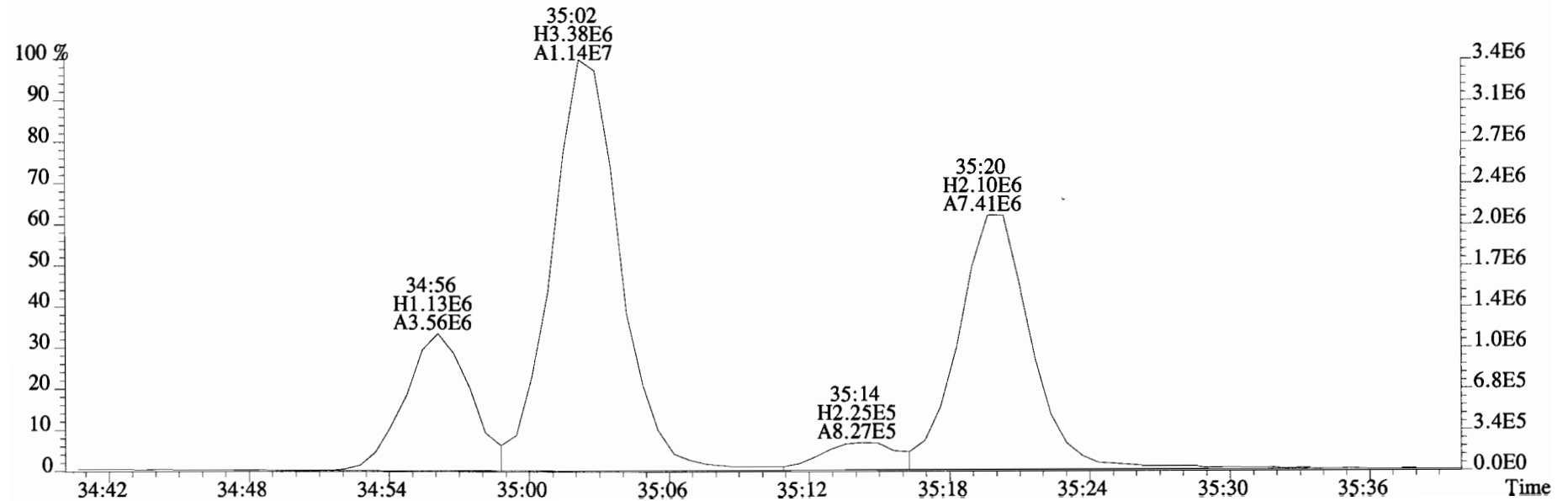
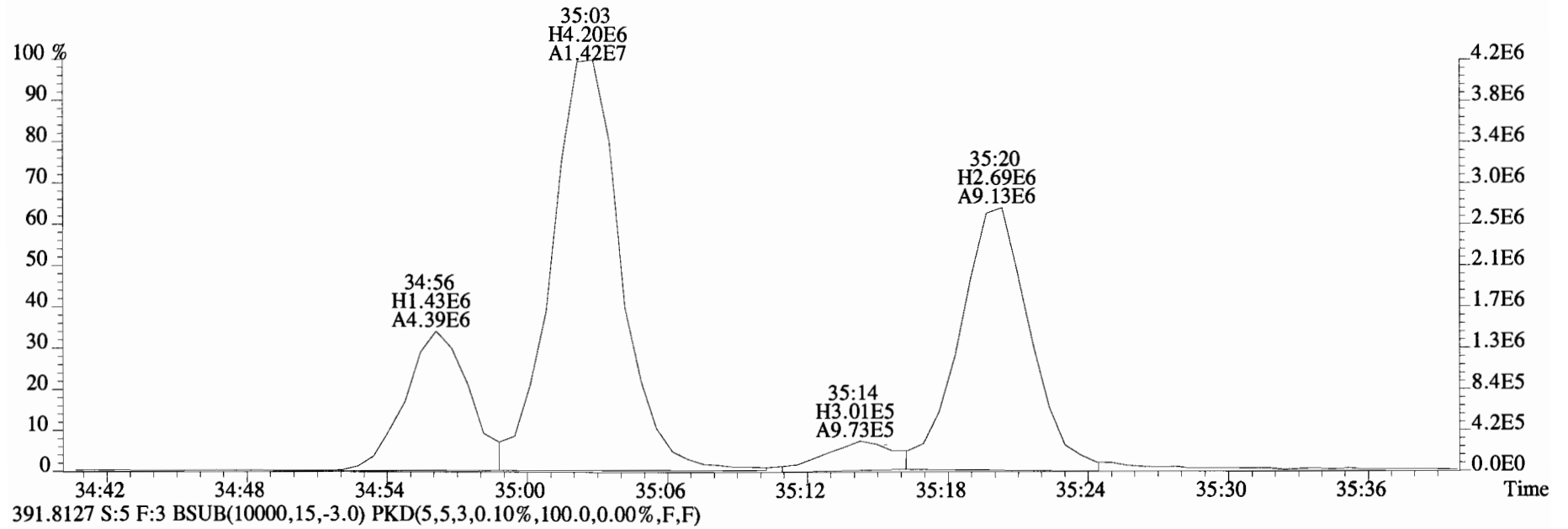
File:141226D2 #1-385 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



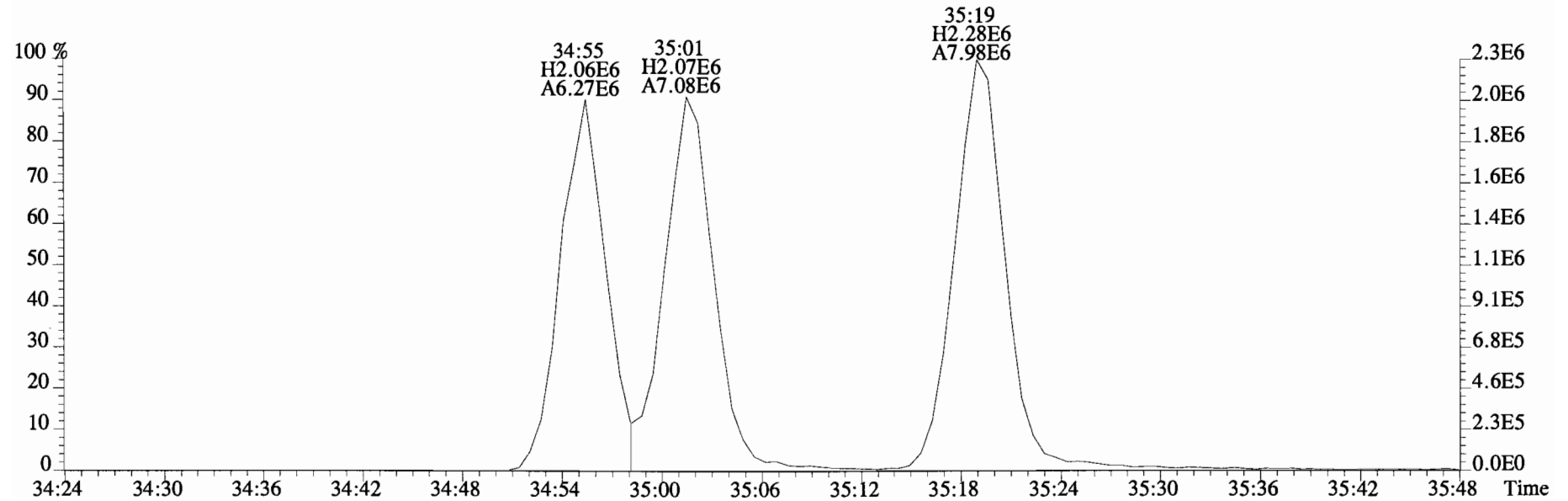
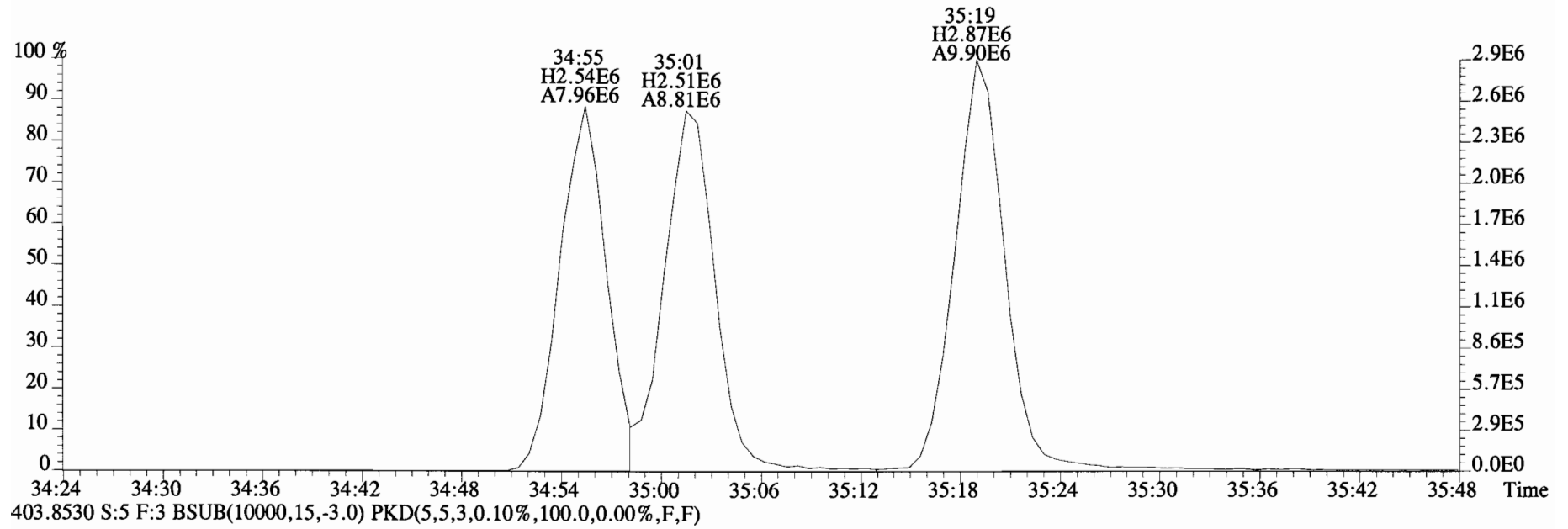
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



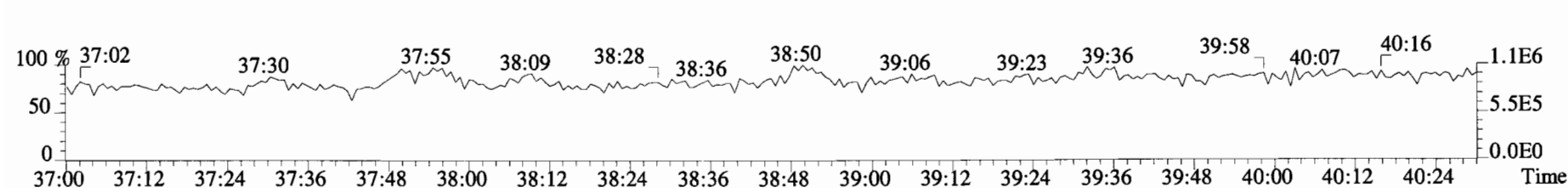
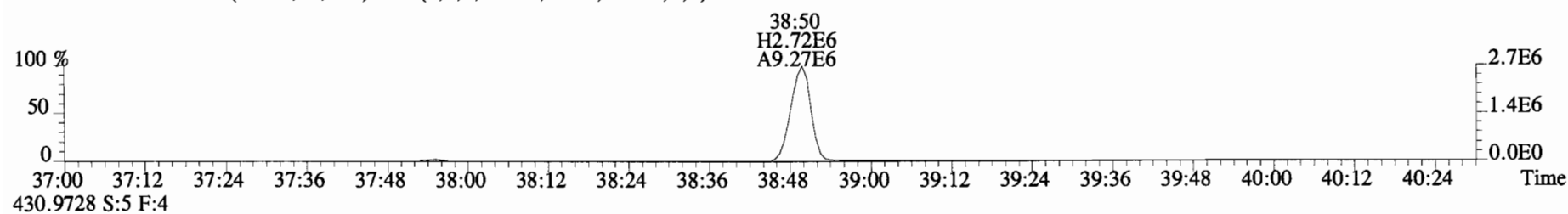
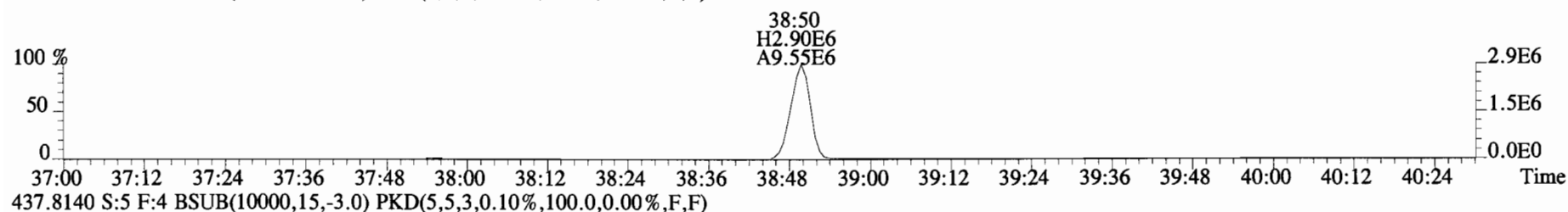
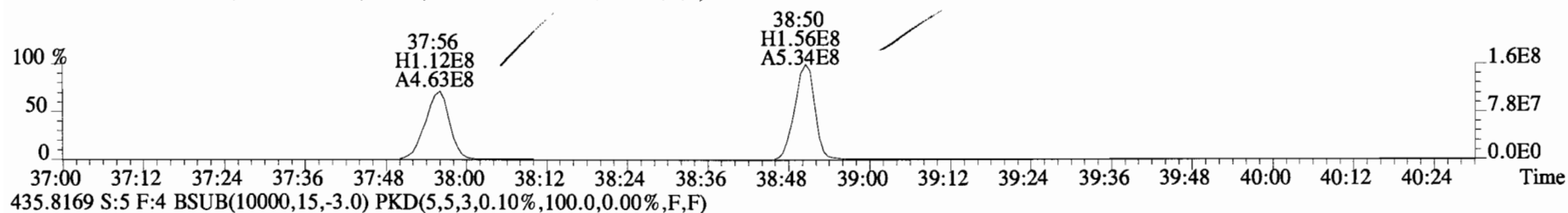
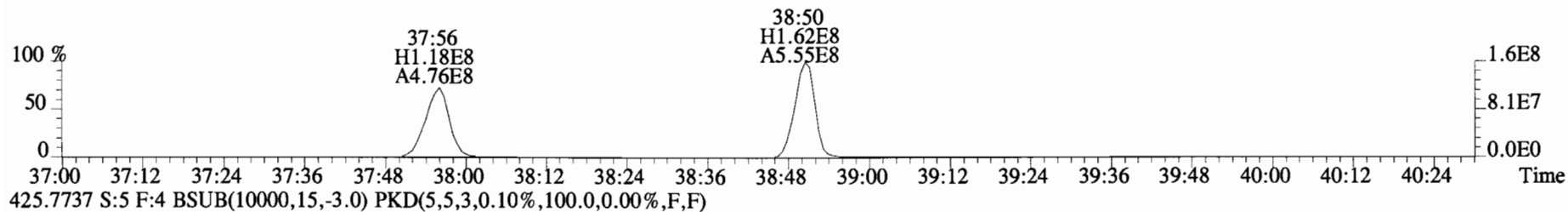
File:141226D2 #1-385 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



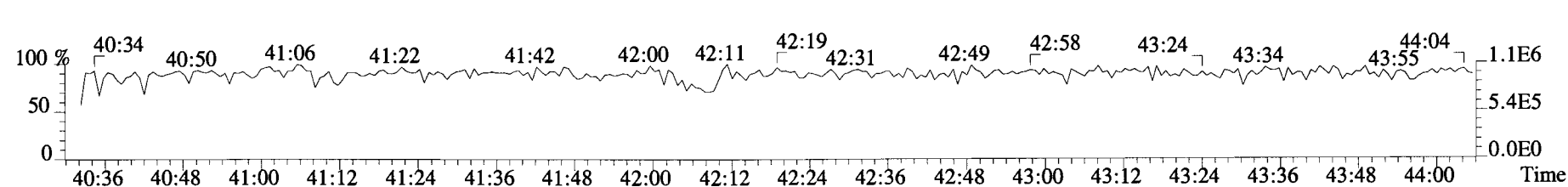
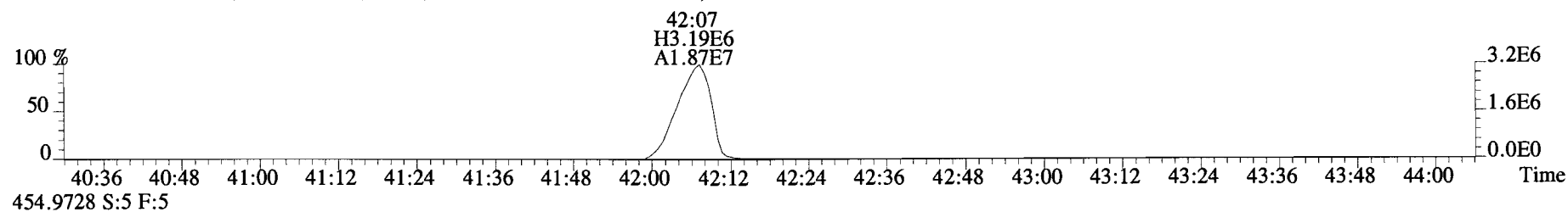
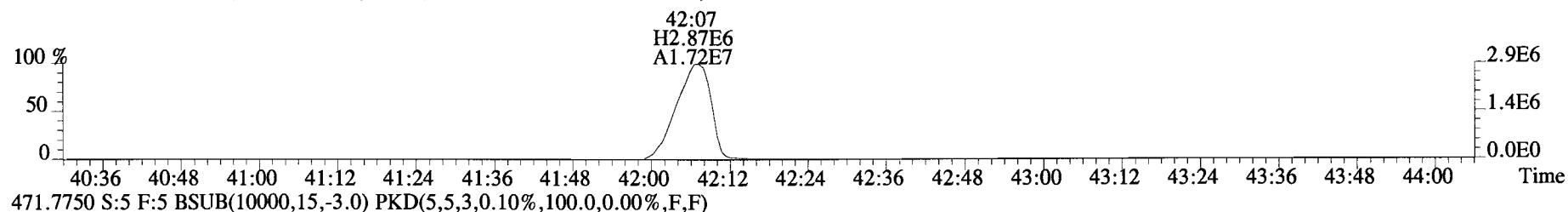
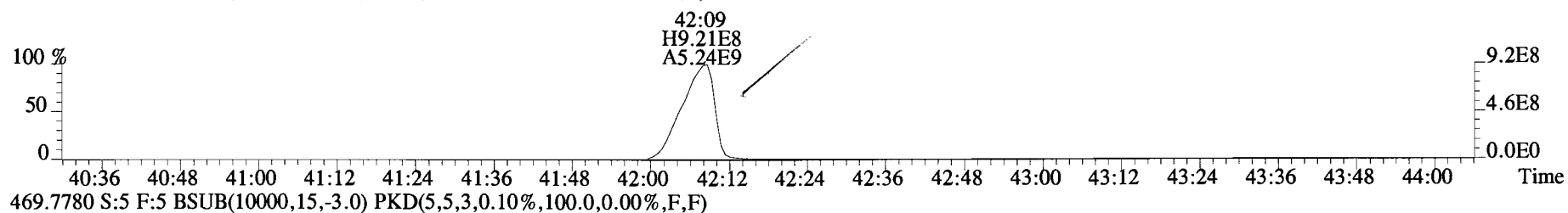
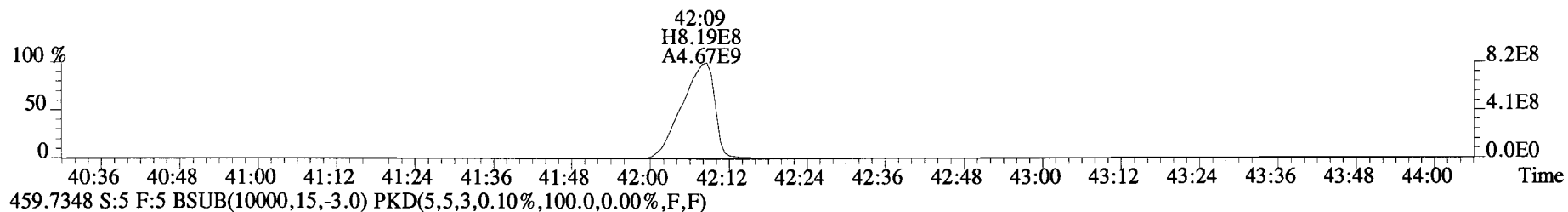
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



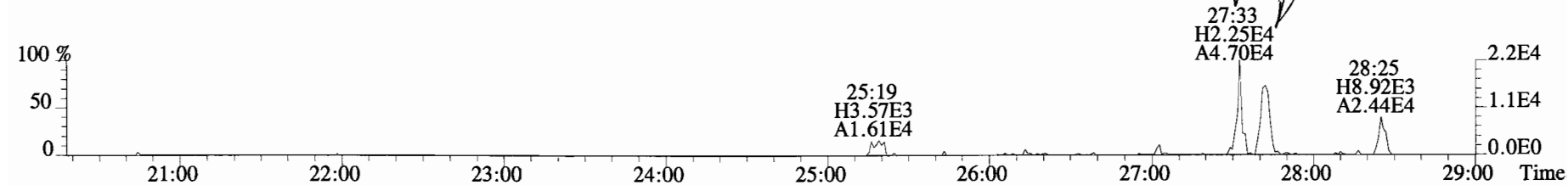
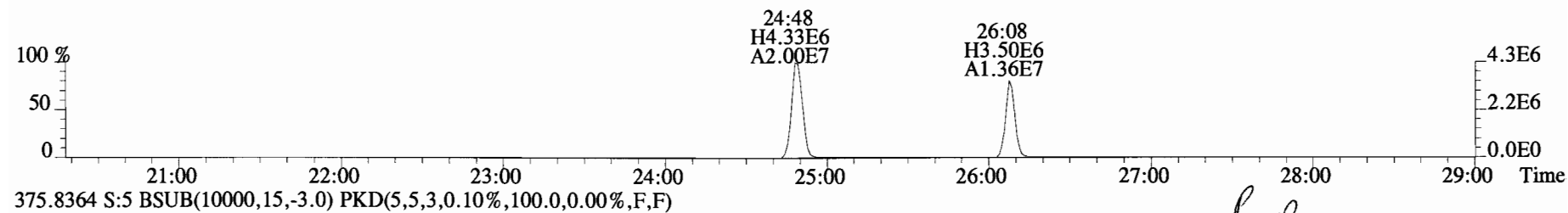
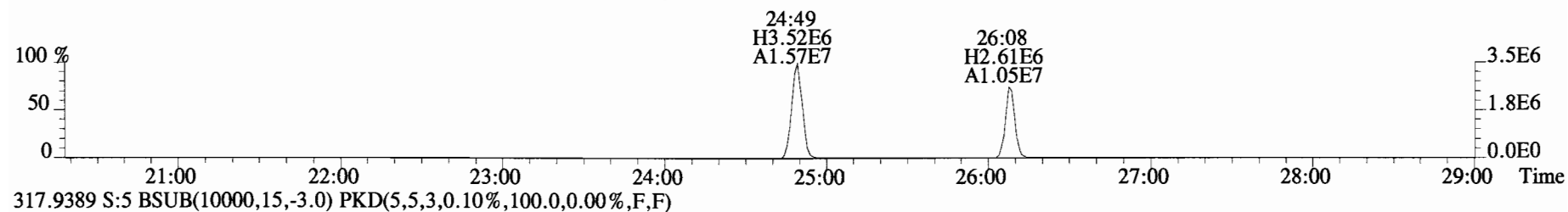
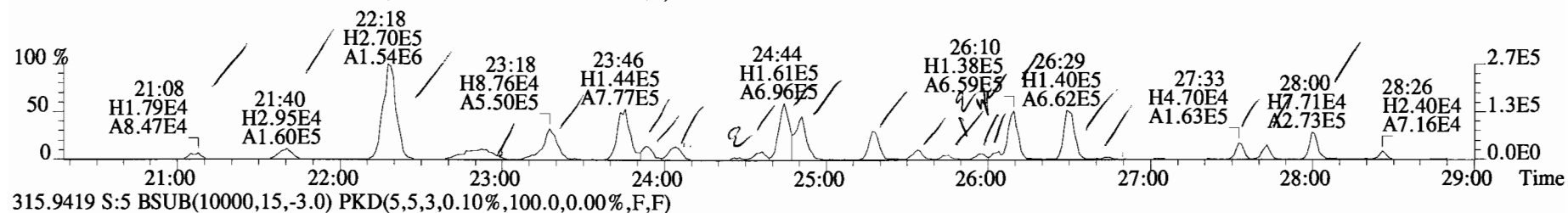
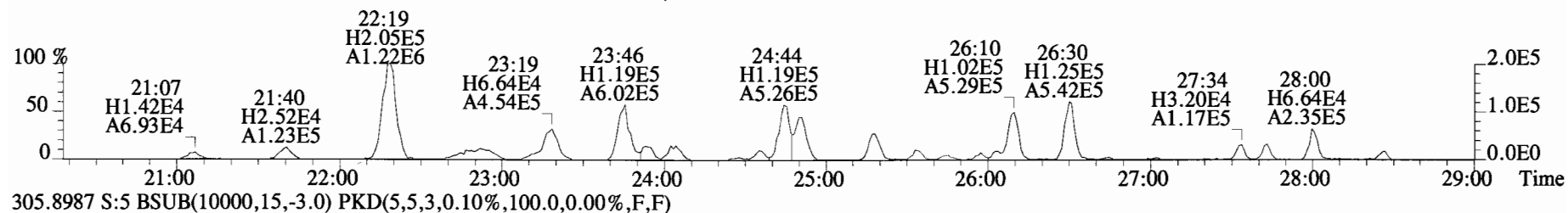
File:141226D2 #1-326 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



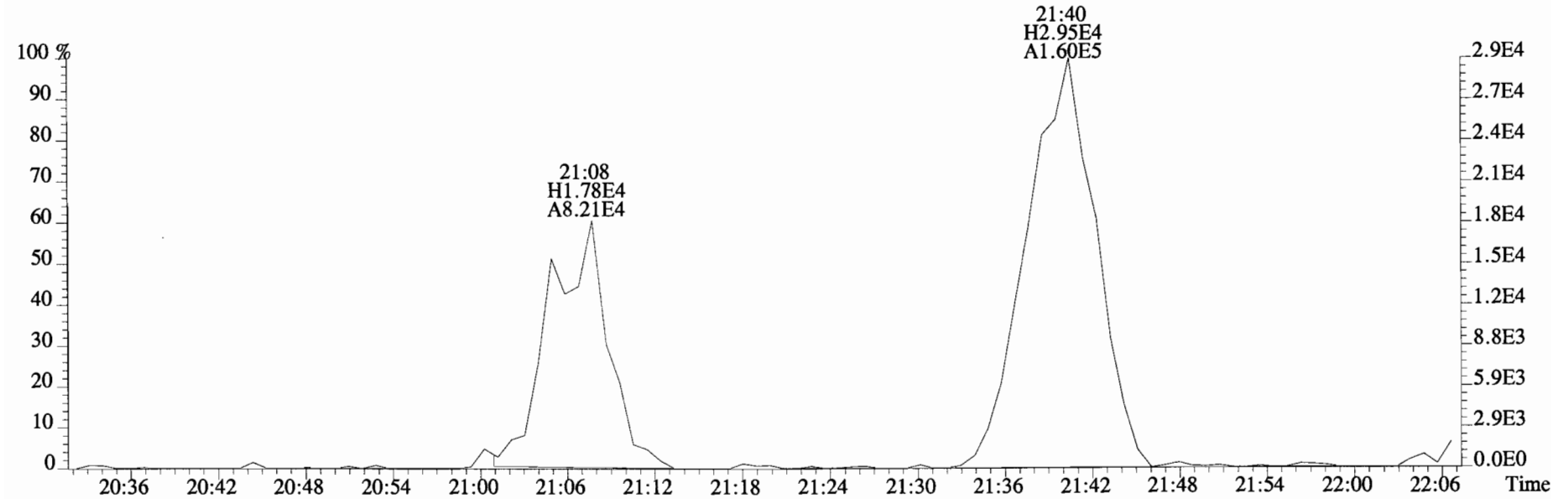
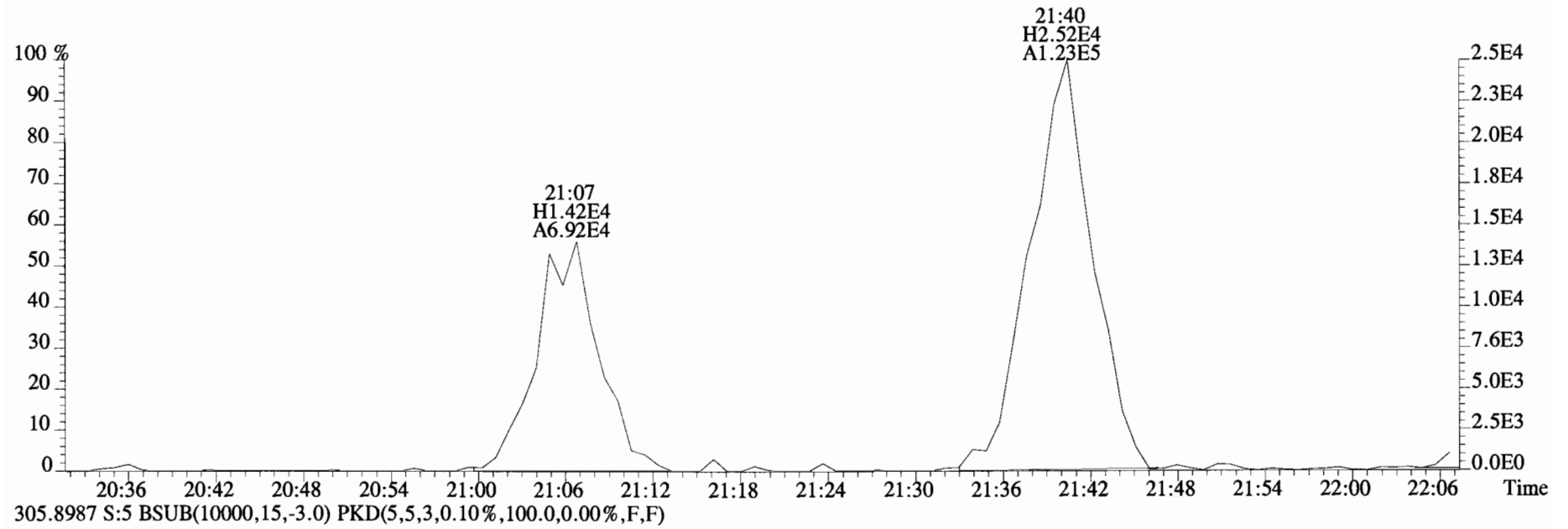
File:141226D2 #1-388 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



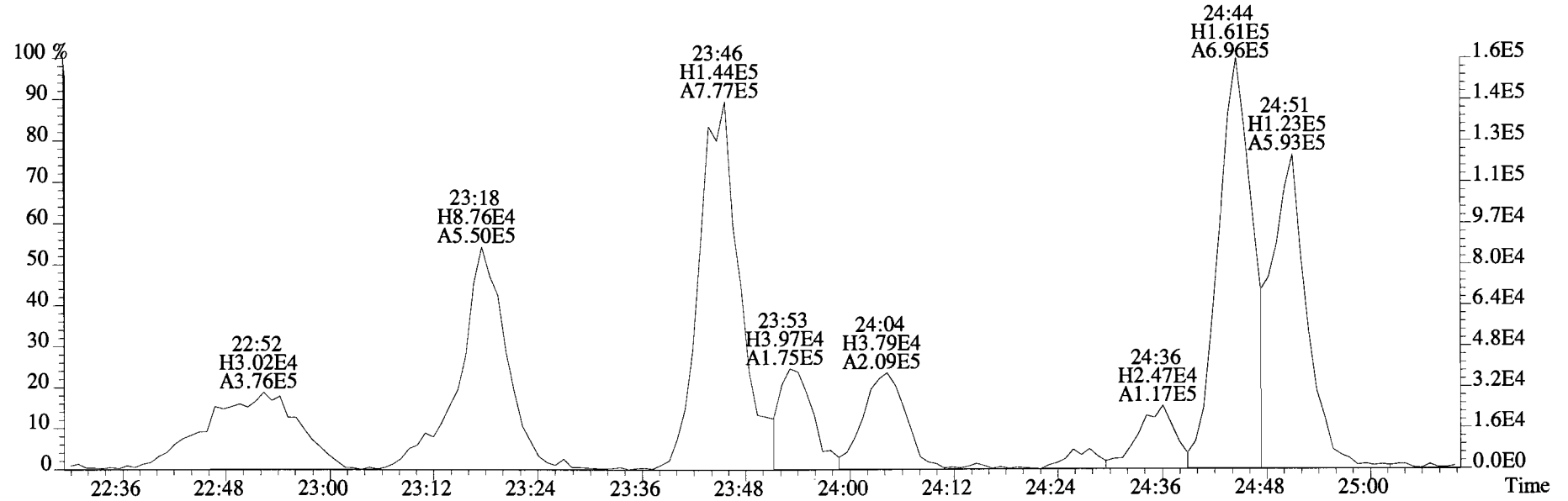
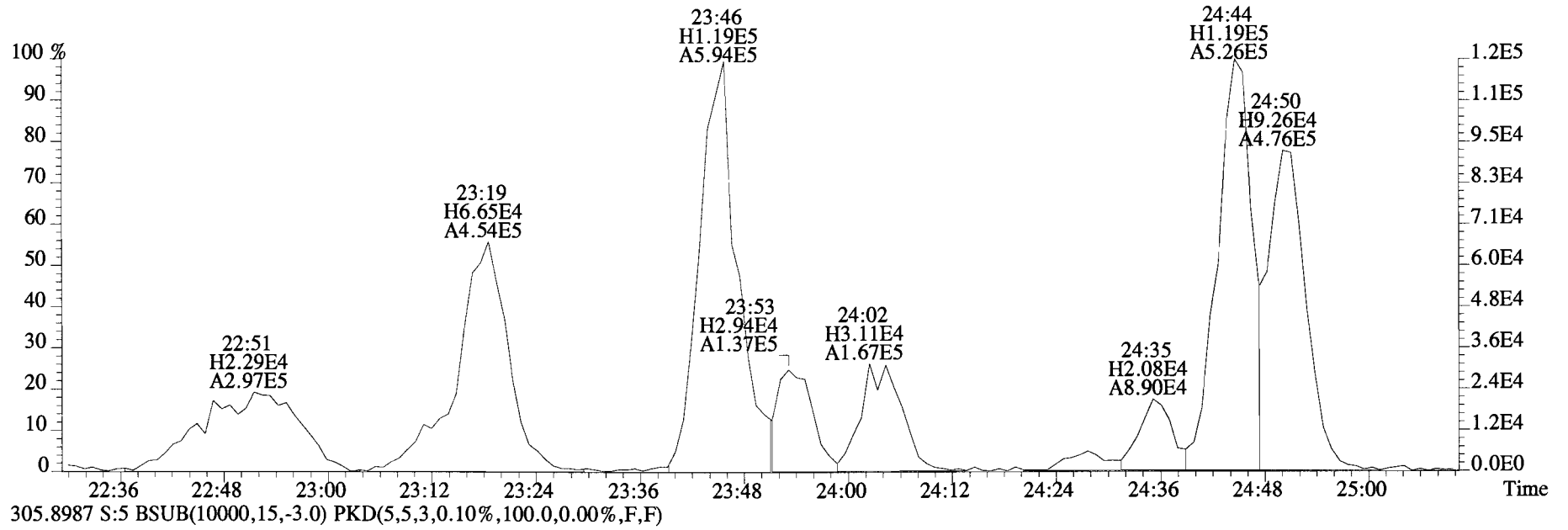
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



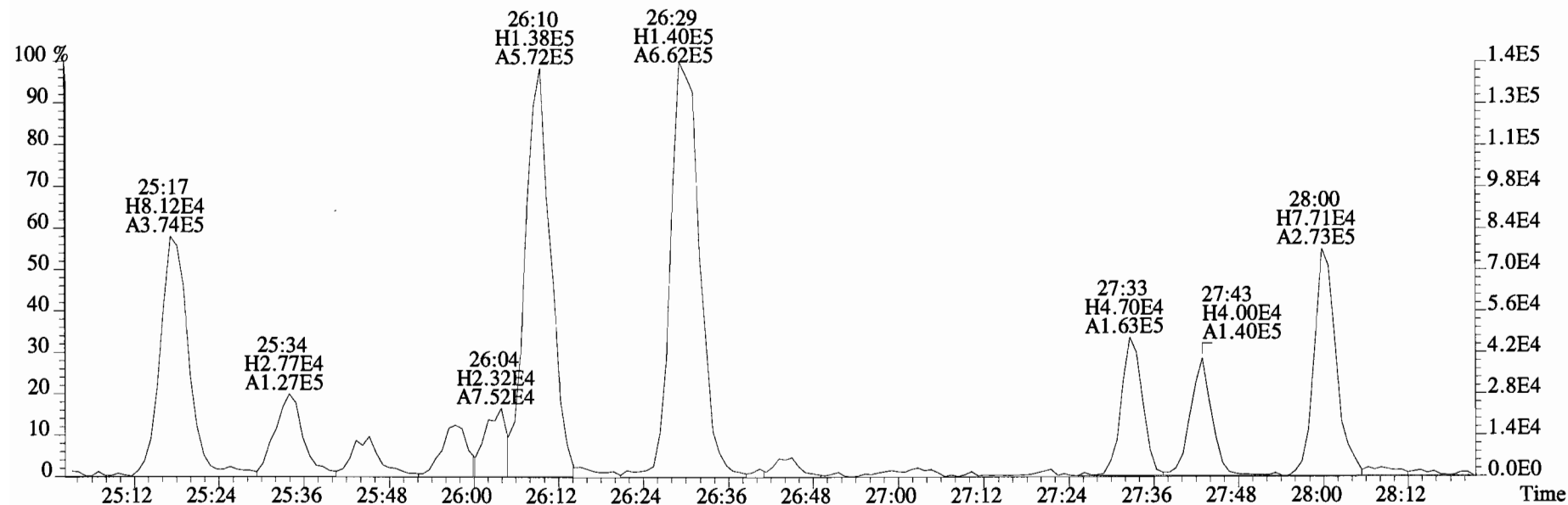
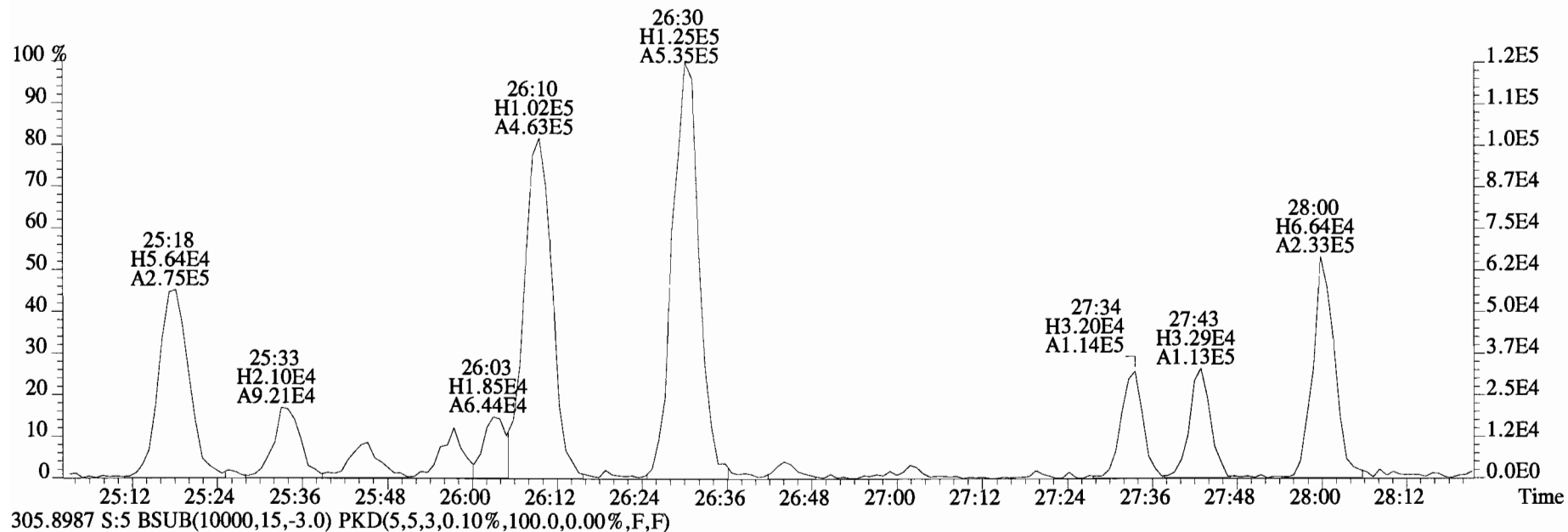
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



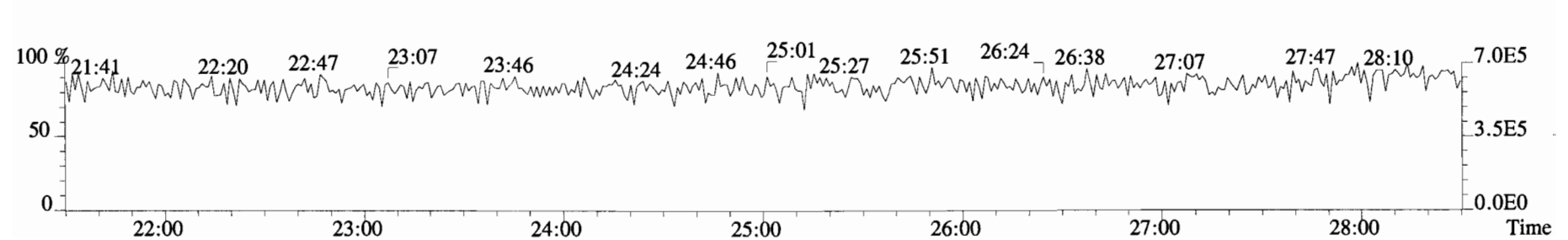
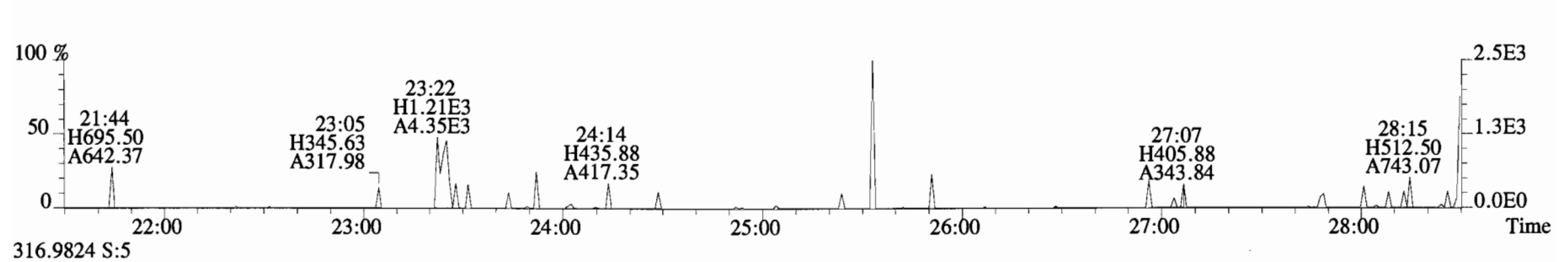
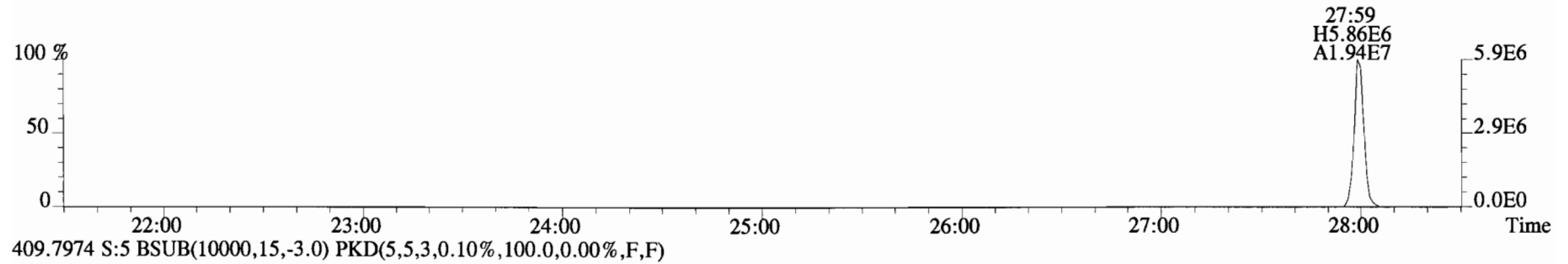
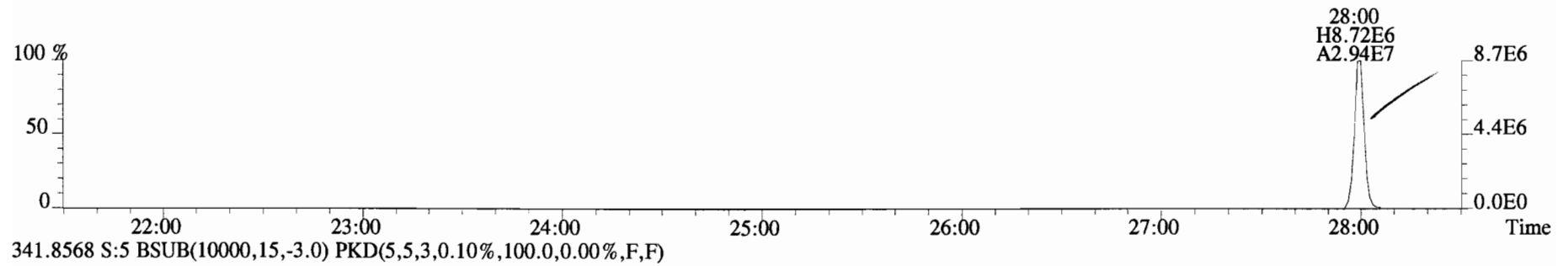
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



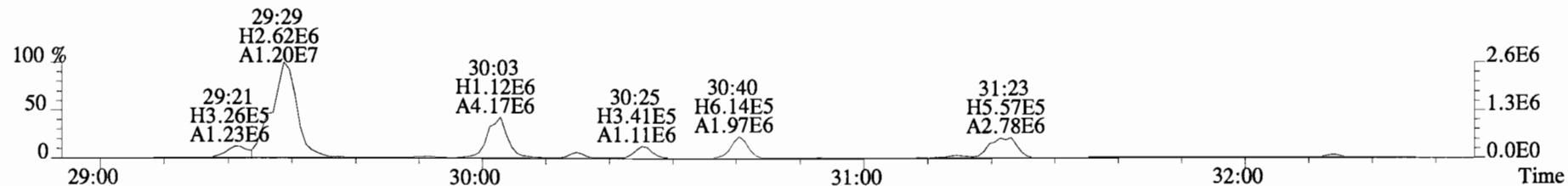
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



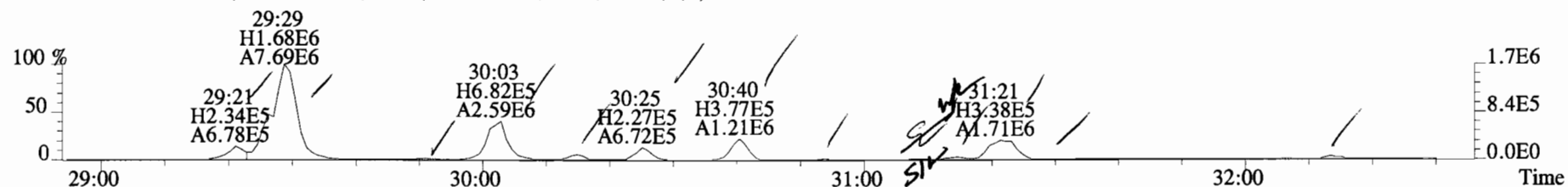
File:141226D2 #1-551 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



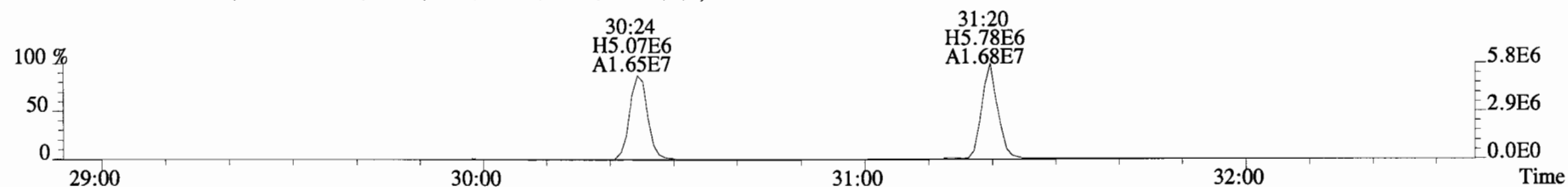
File:141226D2 #1-257 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



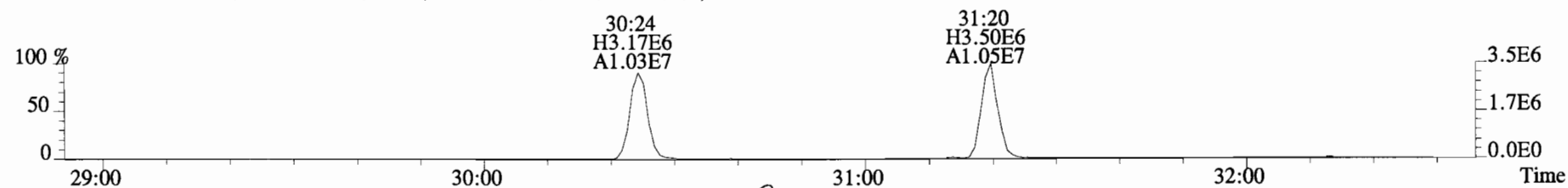
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



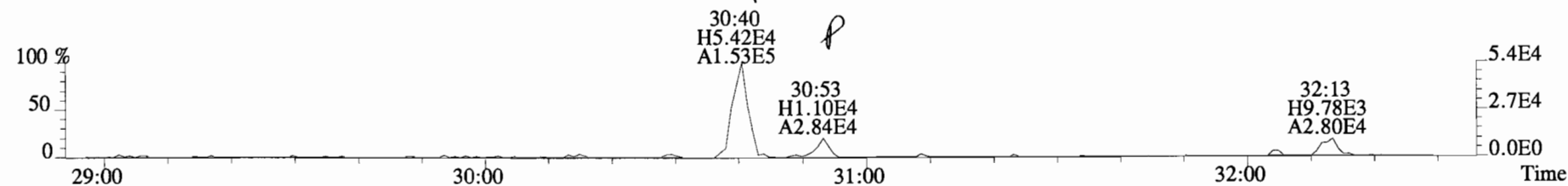
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



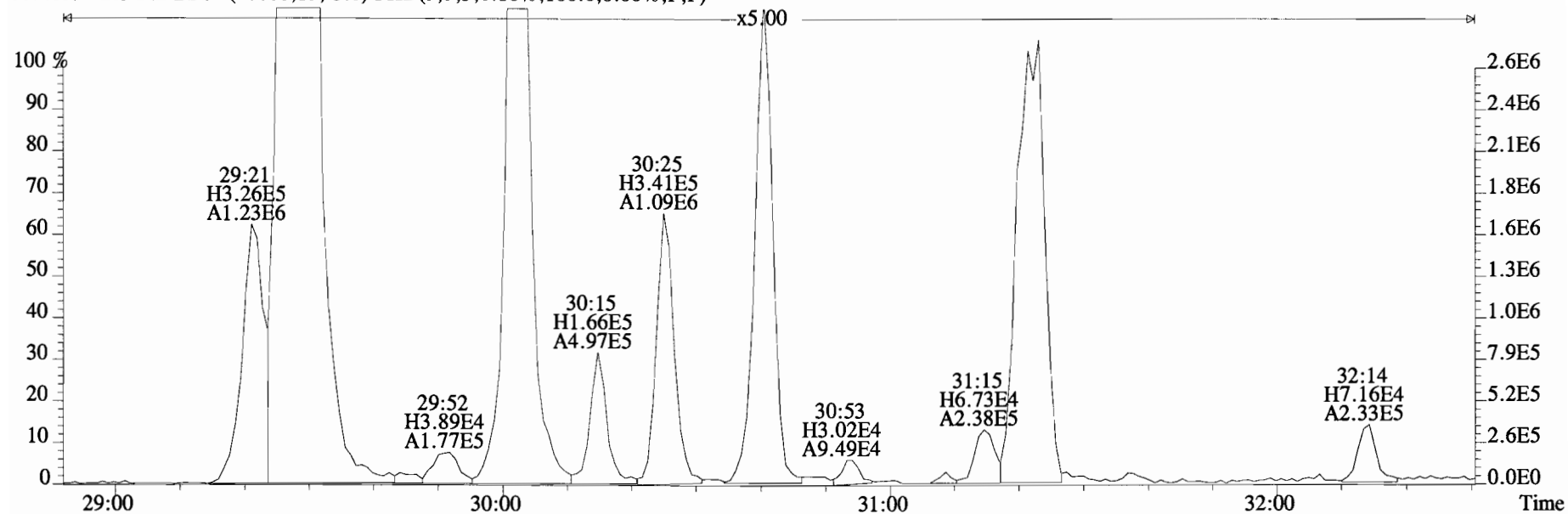
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



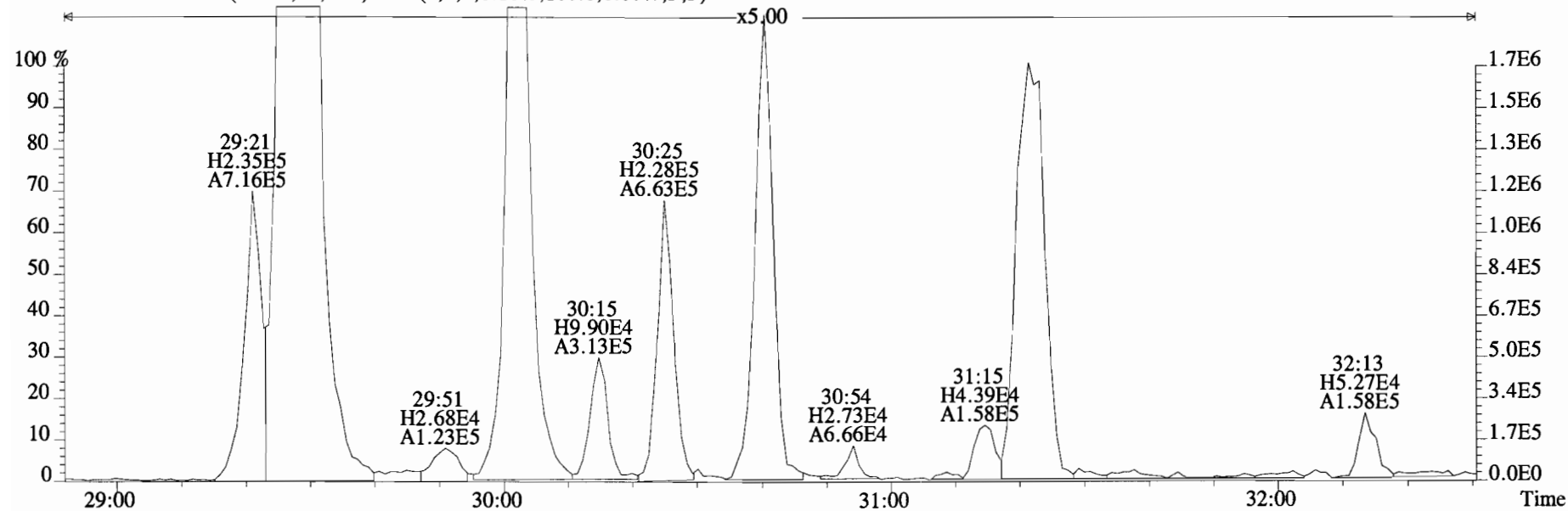
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



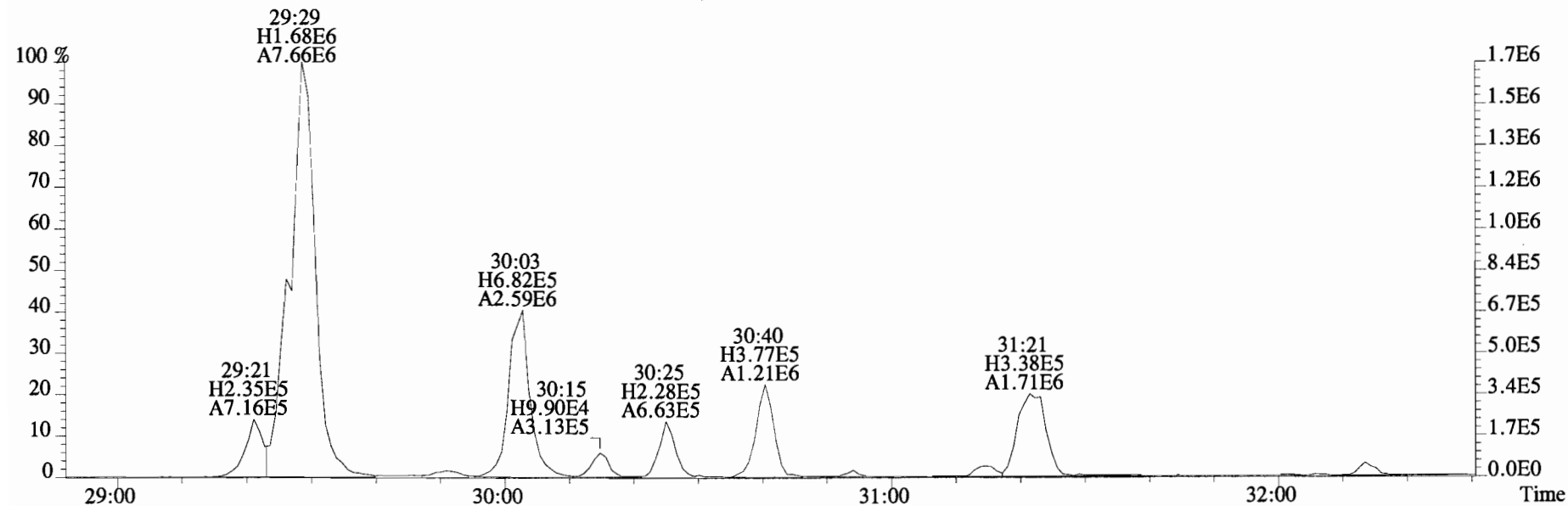
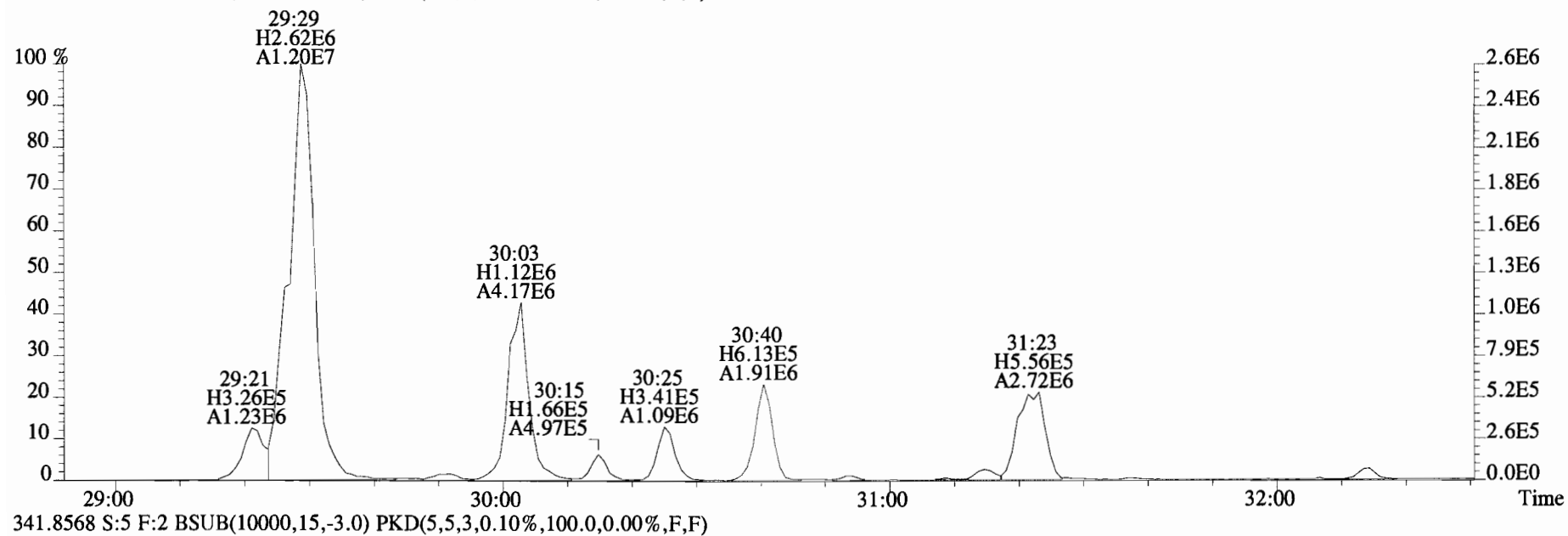
File:141226D2 #1-257 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



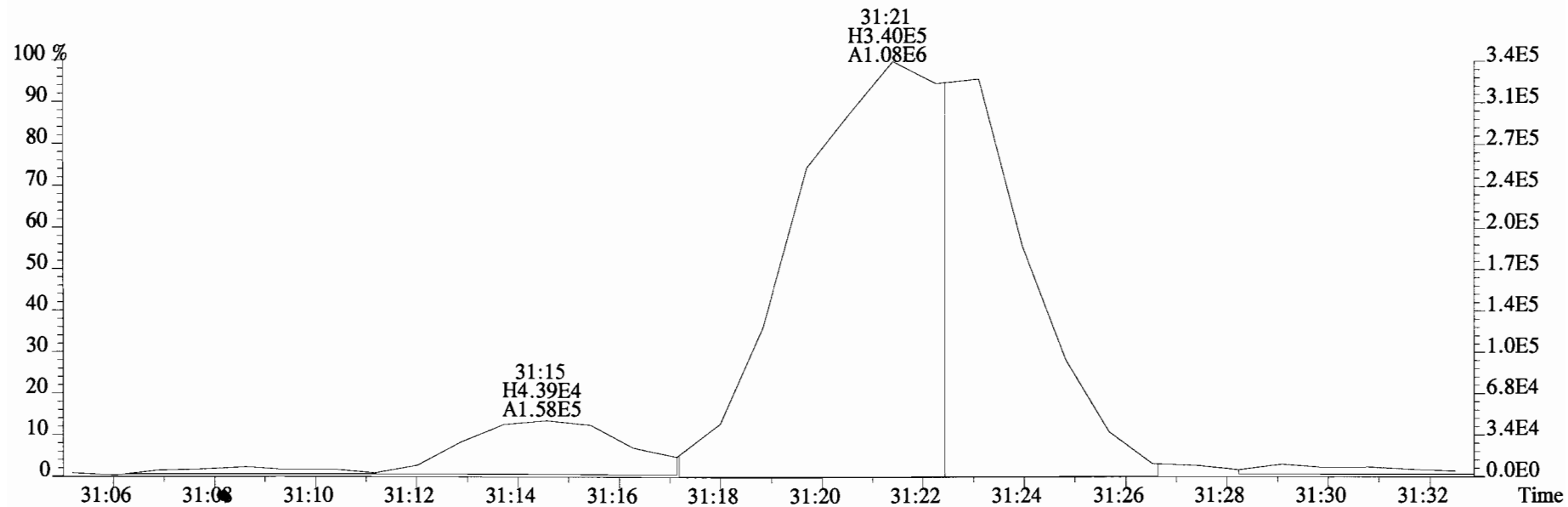
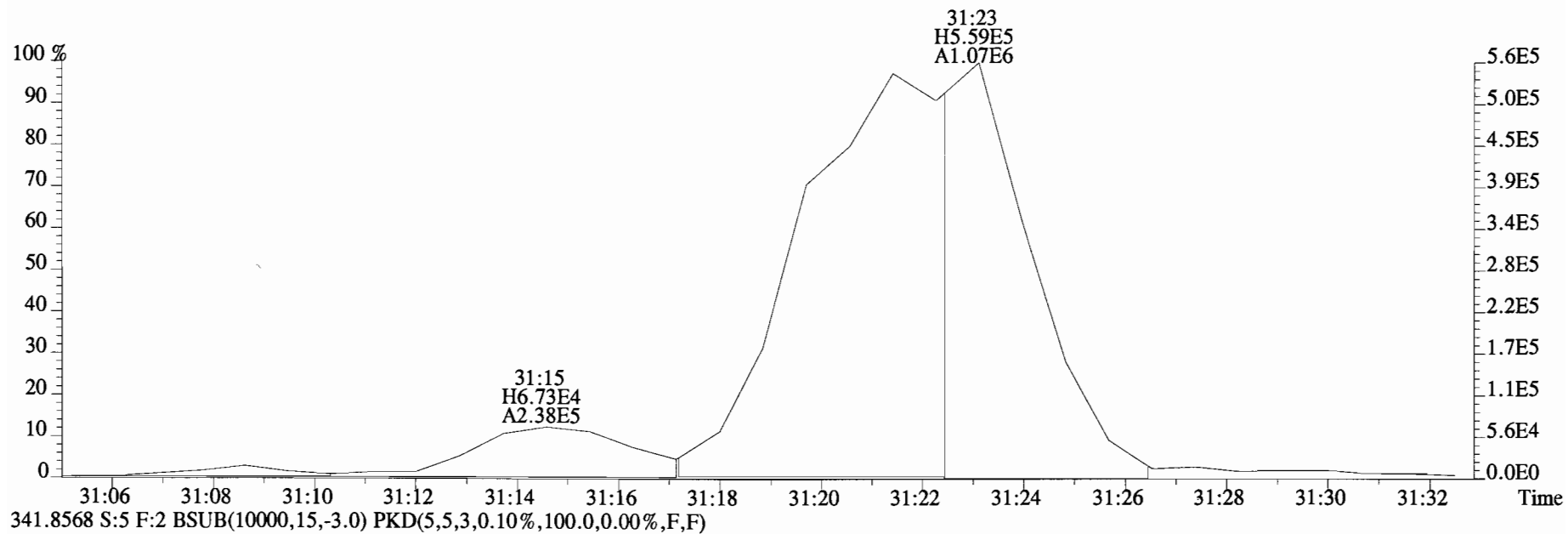
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



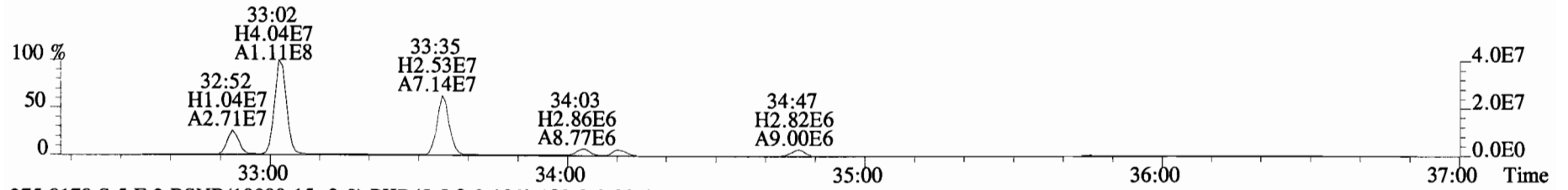
File:141226D2 #1-257 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



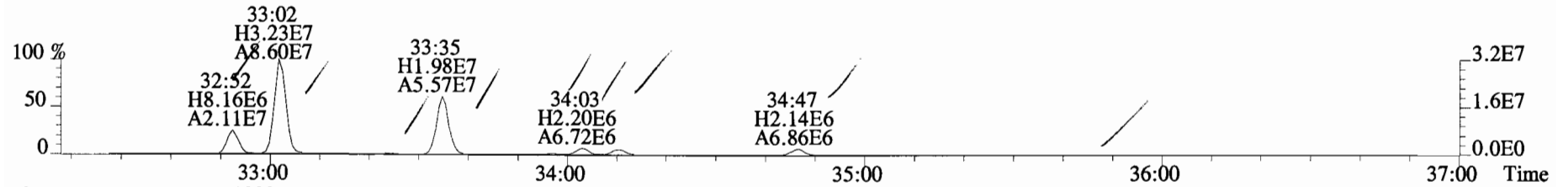
File:141226D2 #1-257 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



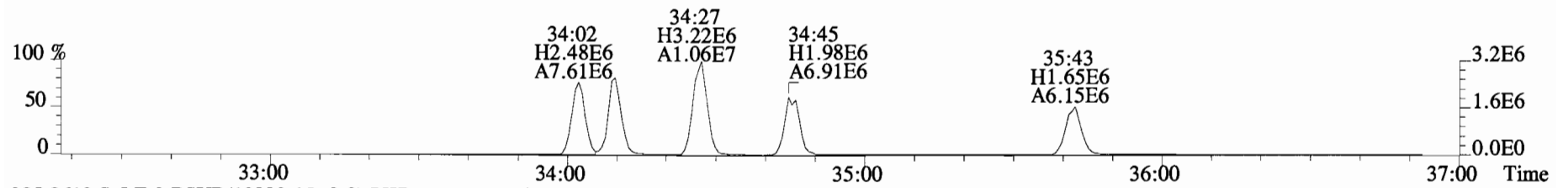
File:141226D2 #1-385 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



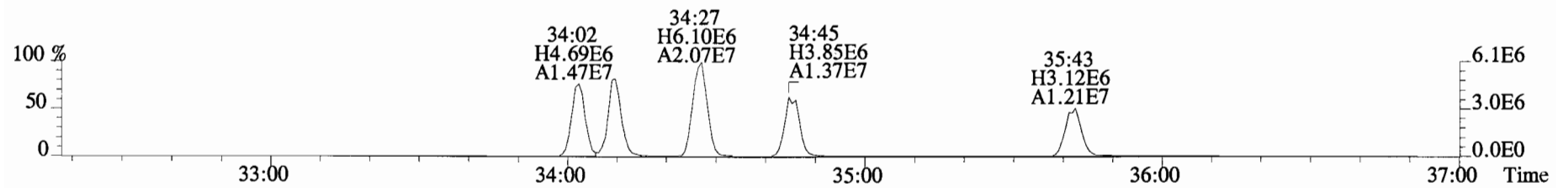
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



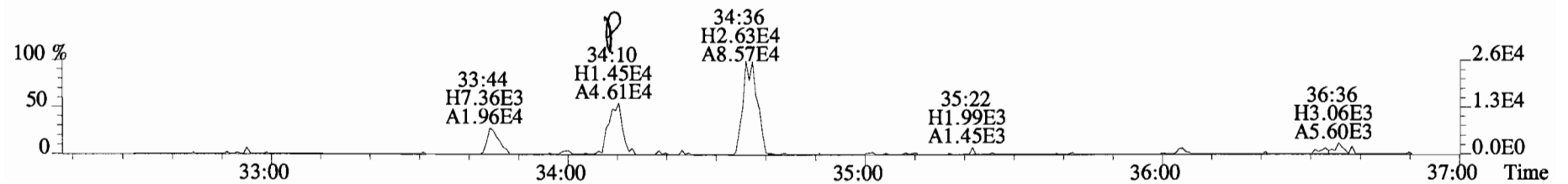
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



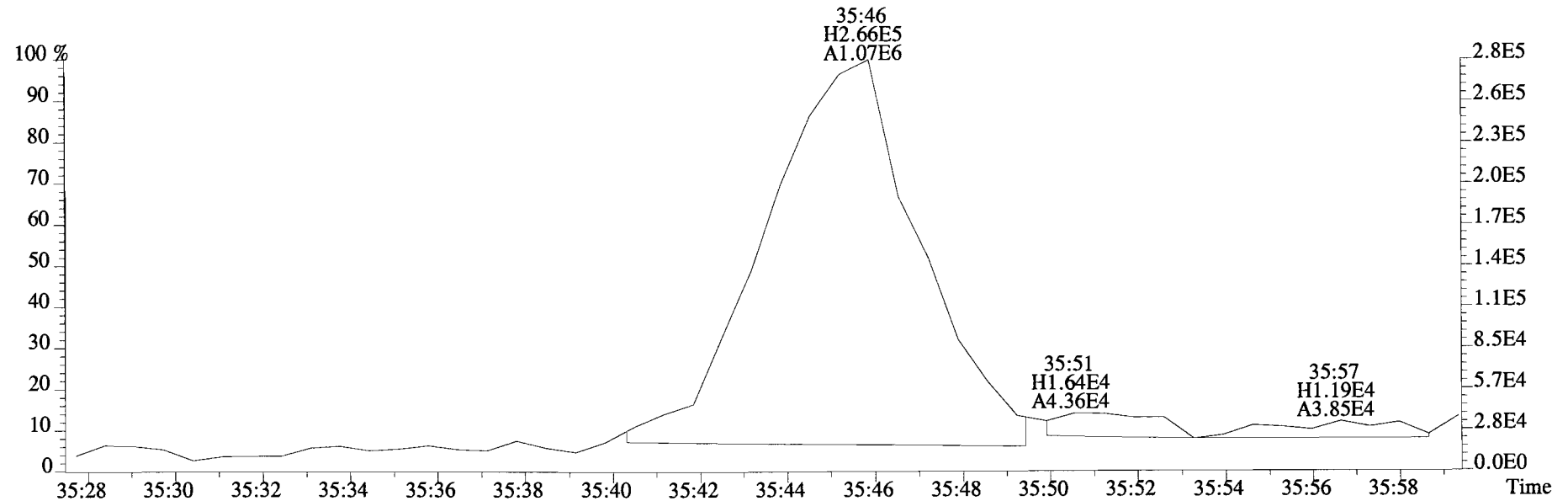
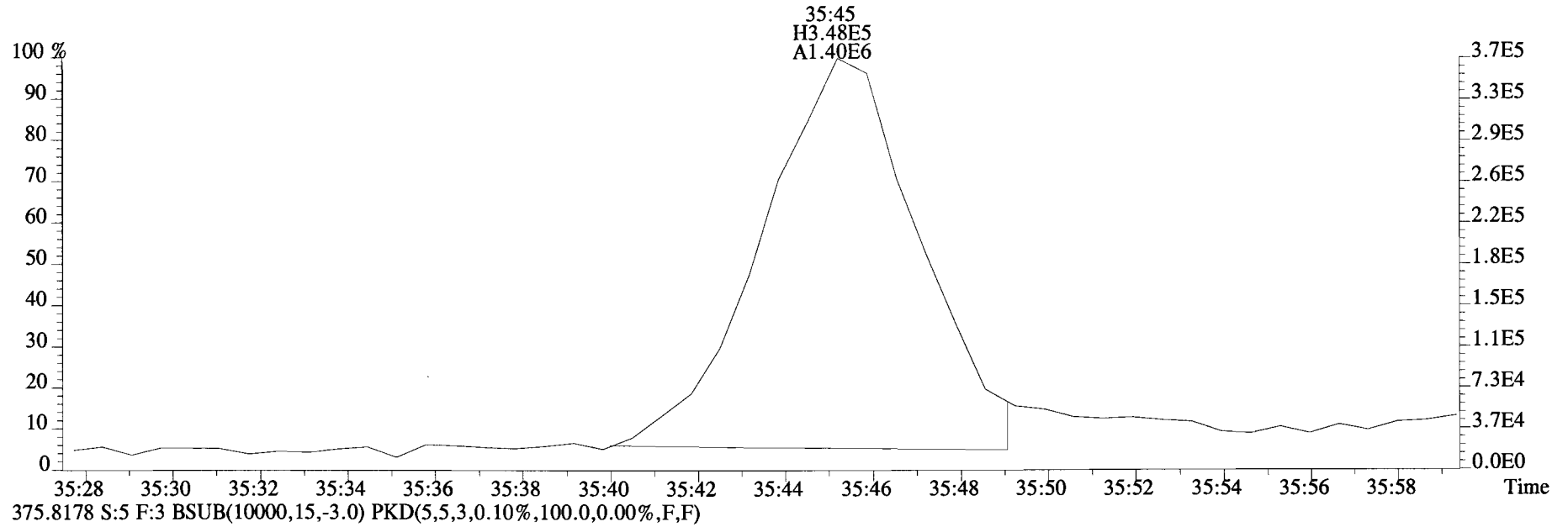
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



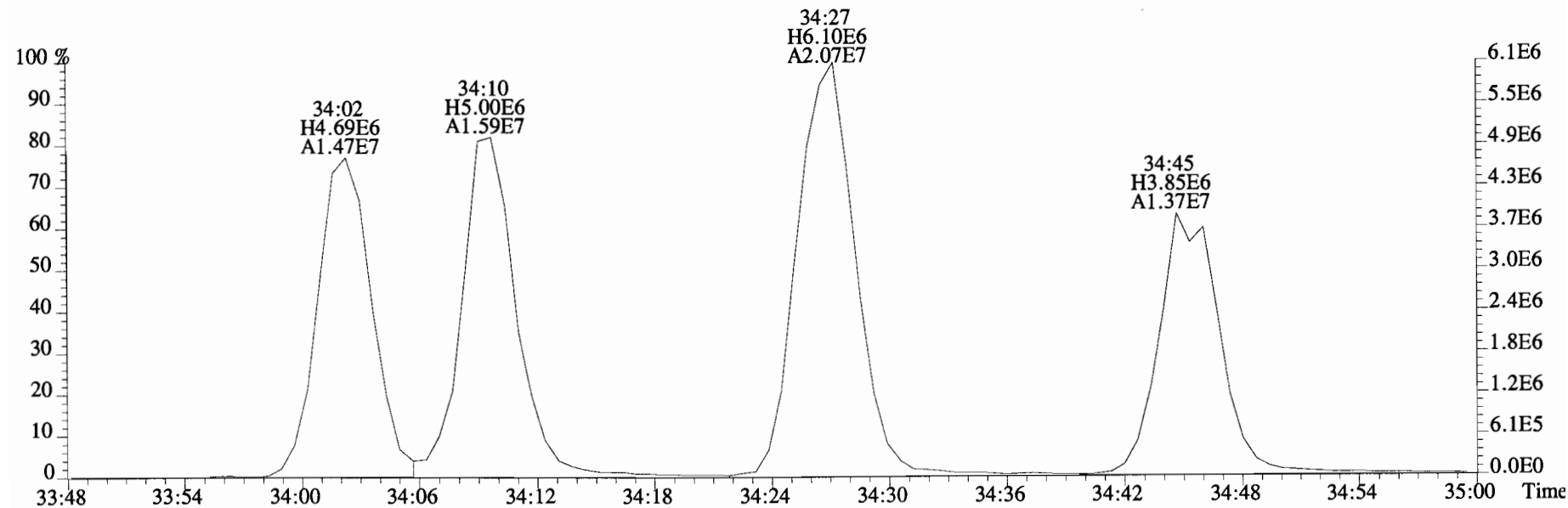
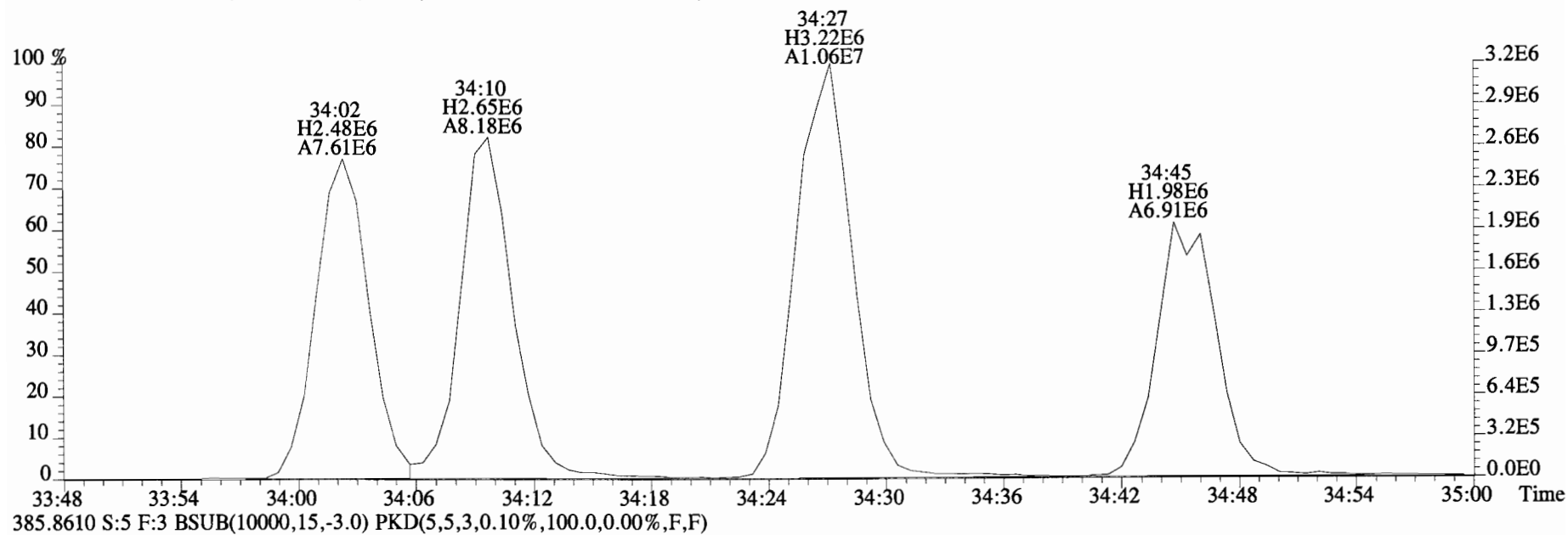
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



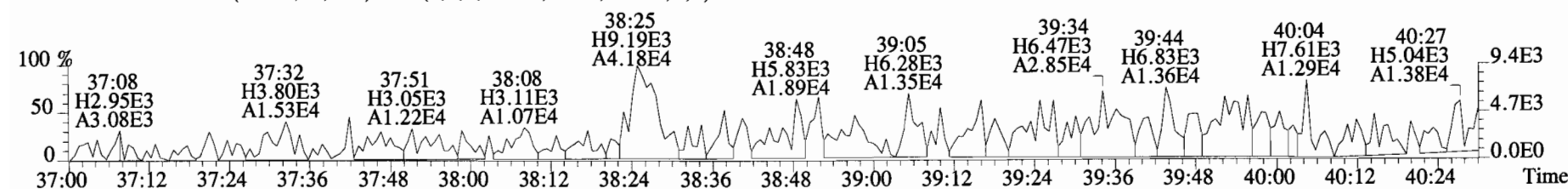
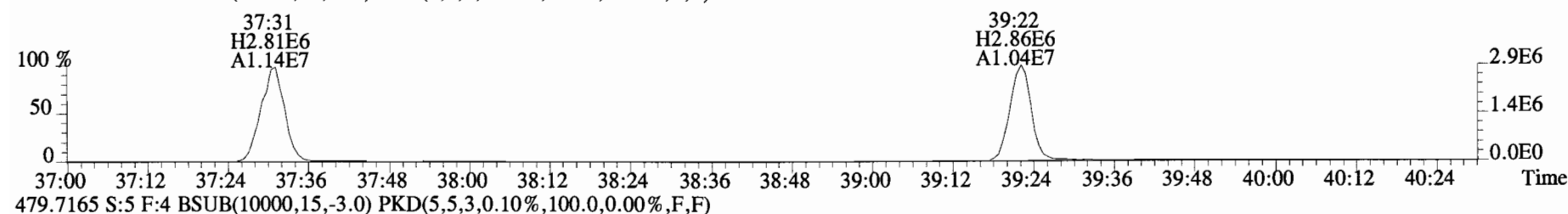
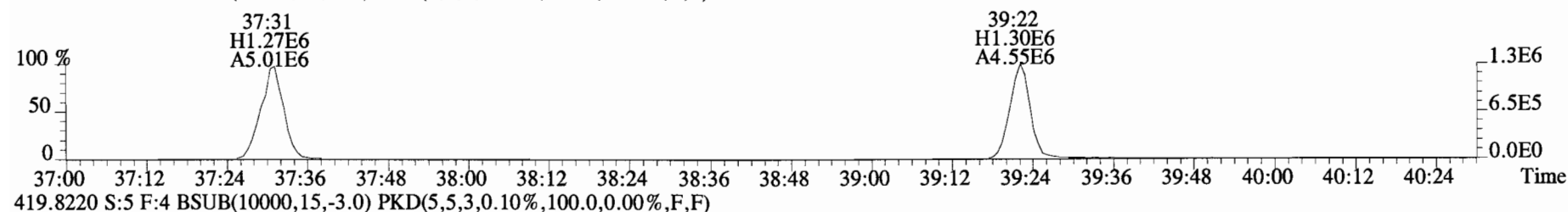
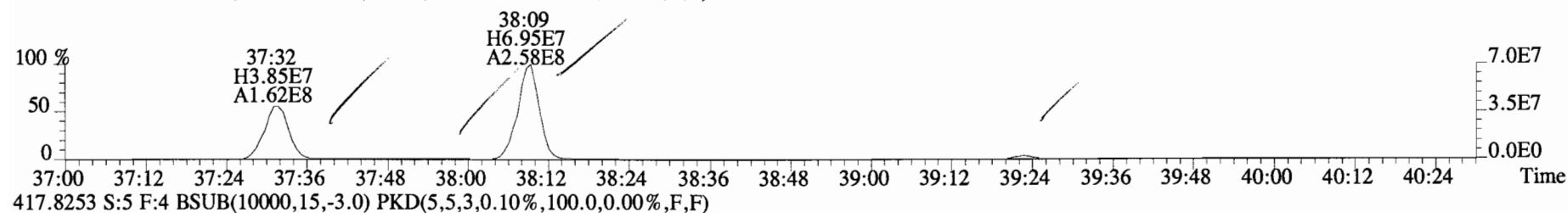
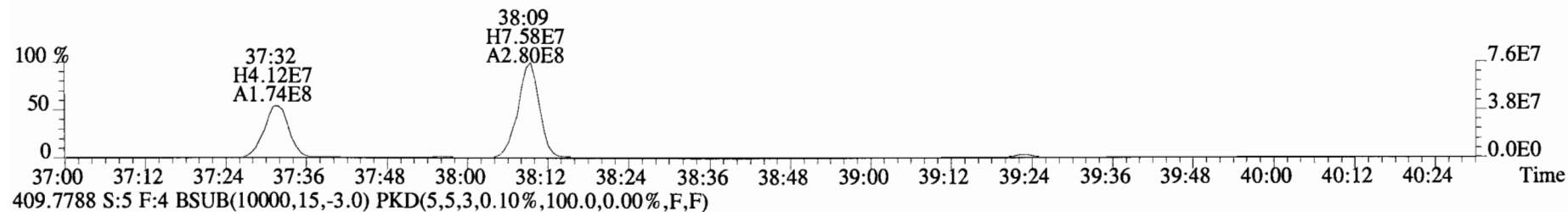
File:141226D2 #1-385 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



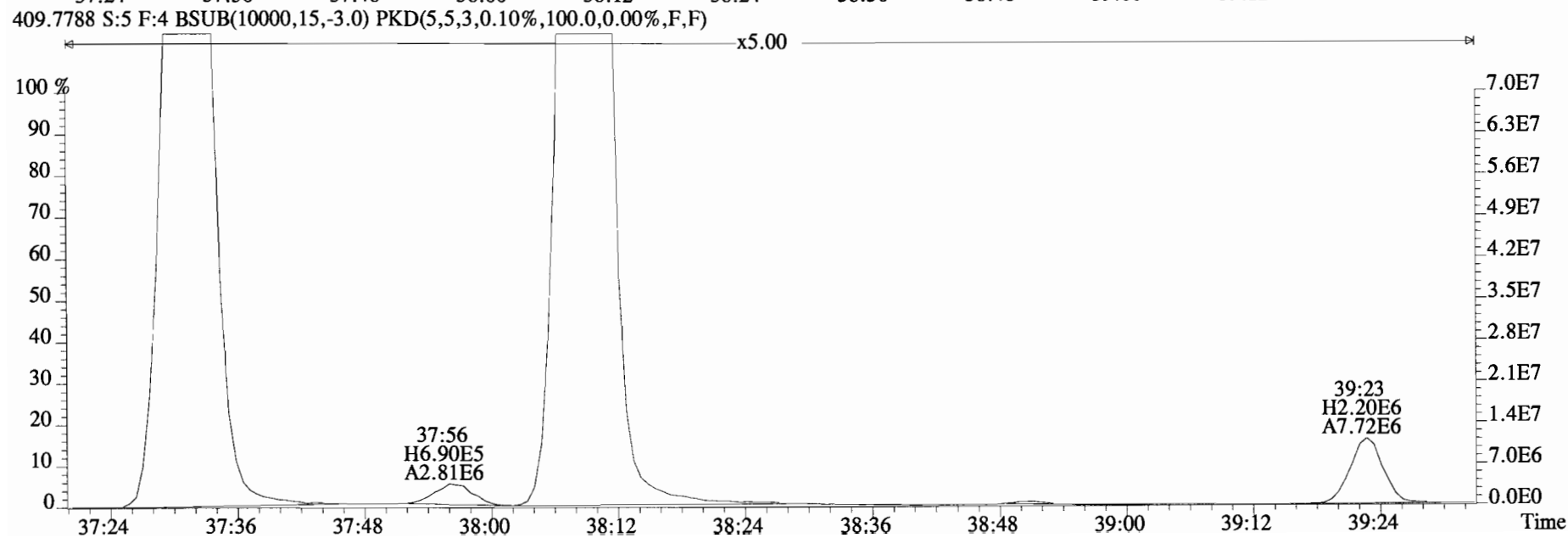
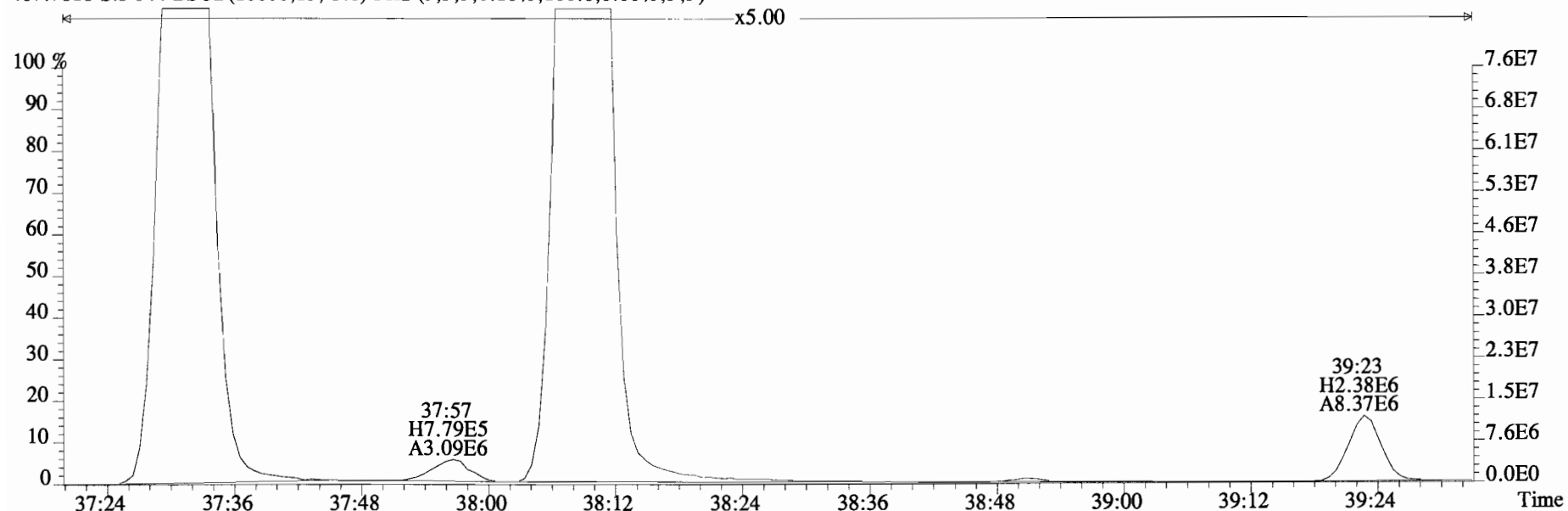
File:141226D2 #1-385 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



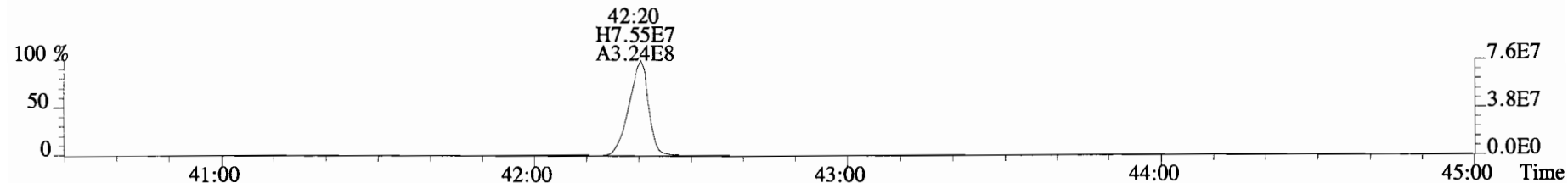
File:141226D2 #1-326 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



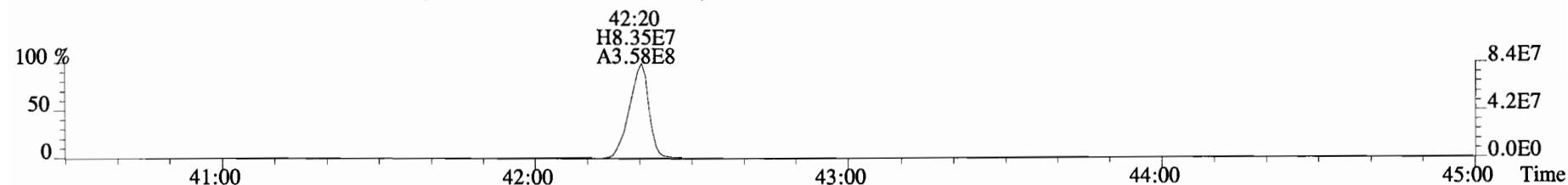
File:141226D2 #1-326 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
407.7818 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



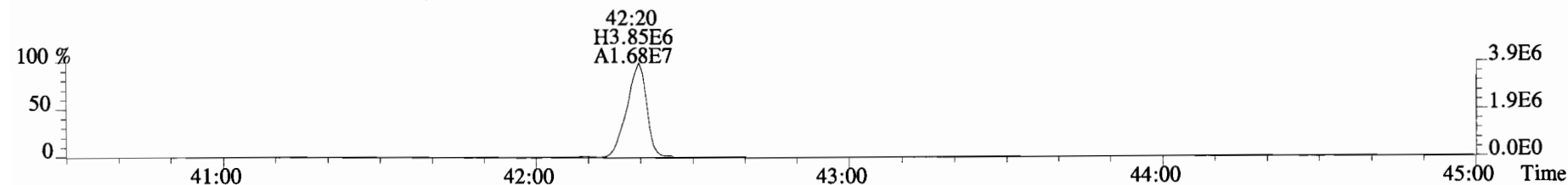
File:141226D2 #1-388 Acq:26-DEC-2014 23:39:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1400948-01RE1 SC-OWS-05-20141211-S 3.7 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



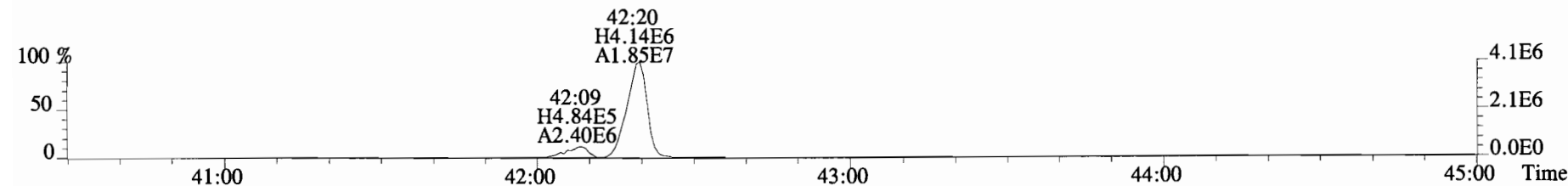
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



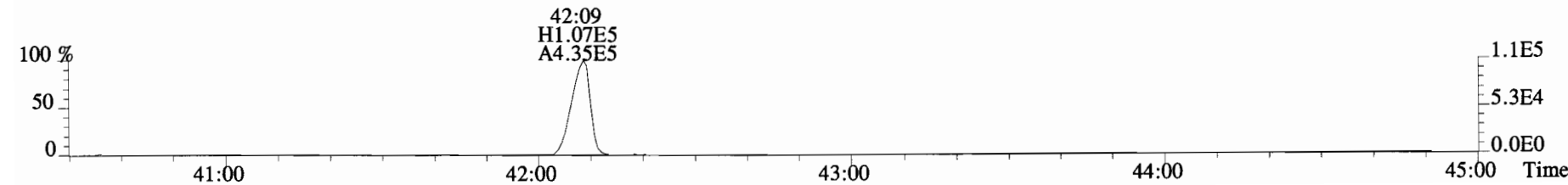
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1

Filename: 141226D2 S:6 Acq:27-DEC-14 00:27:53
GC Column ID: ZB-5MS ICat: 1613VG7-10-16-14 wt/vol: 1.002 ✓

ConCal: ST141226D2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.06e+05	0.72 y	1.18	26:57	1.000	21.593		*	2.5	*	Total Tetra-Dioxins	105	112	*	*	
1,2,3,7,8-PeCDD	2.06e+06	0.61 y	0.92	31:37	1.000	184.30		*	2.5	*	Total Penta-Dioxins	656	669	*	*	
1,2,3,4,7,8-HxCDD	4.62e+06	1.26 y	1.09	34:56	1.001	536.90		*	2.5	*	Total Hexa-Dioxins	7590	7590	*	*	
1,2,3,6,7,8-HxCDD	9.92e+06	1.28 y	1.07	35:02	1.000	1149.3		*	2.5	*	Total Hepta-Dioxins	62200	62200	*	*	
1,2,3,7,8,9-HxCDD	9.24e+06	1.24 y	0.93	35:20	1.000	1063.4		*	2.5	*	Total Tetra-Furans	248	276	*	*	
1,2,3,4,6,7,8-HpCDD	4.07e+08	1.03 y	1.12	38:50	1.000	39423		*	2.5	*	Total Penta-Furans	1200.0	1204.7	*	*	
OCDD	4.11e+09	0.89 y	0.95	42:06	1.000	442330		*	2.5	*	Total Hexa-Furans	5770	5770	*	*	
											Total Hepta-Furans	22300	22300	*	*	
2,3,7,8-TCDF	2.18e+05	0.81 y	1.08	26:09	1.001	16.615	15.9	*	2.5	*						
1,2,3,7,8-PeCDF	4.04e+05	1.57 y	1.09	30:25	1.000	27.130		*	2.5	*						
2,3,4,7,8-PeCDF	4.12e+05	1.58 y	1.04	31:20	1.000	26.320		*	2.5	*						
1,2,3,4,7,8-HxCDF	3.62e+06	1.37 y	1.39	34:03	1.000	202.73		*	2.5	*						
1,2,3,6,7,8-HxCDF	2.51e+06	1.27 y	1.26	34:11	1.001	157.56		*	2.5	*						
2,3,4,6,7,8-HxCDF	3.38e+06	1.33 y	1.30	34:46	1.000	228.48		*	2.5	*						
1,2,3,7,8,9-HxCDF	4.51e+05	1.26 y	1.19	35:45	1.001	39.185		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	7.29e+07	1.08 y	1.62	37:31	1.000	5502.0		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	6.12e+06	1.07 y	1.53	39:22	1.000	505.24		*	2.5	*						
OCDF	3.76e+08	0.91 y	1.10	42:19	1.000	35647		*	2.5	*						
IS	13C-2,3,7,8-TCDD	1.61e+07	0.82 y	1.07	26:57	1.023	1655.2				Rec	83.0				
IS	13C-1,2,3,7,8-PeCDD	2.43e+07	0.62 y	1.24	31:37	1.200	2165.8				Qual	109				
IS	13C-1,2,3,4,7,8-HxCDD	1.58e+07	1.26 y	0.72	34:55	1.014	1446.8					72.5				
IS	13C-1,2,3,6,7,8-HxCDD	1.61e+07	1.26 y	0.74	35:02	1.017	1458.0					73.1				
IS	13C-1,2,3,7,8,9-HxCDD	1.86e+07	1.24 y	0.86	35:19	1.025	1447.7					72.6				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.85e+07	1.08 y	0.64	38:49	1.127	1905.0					95.5				
IS	13C-OCDD	3.90e+07	0.90 y	0.78	42:05	1.222	3307.2					82.9				
IS	13C-2,3,7,8-TCDF	2.43e+07	0.77 y	0.92	26:08	0.992	1586.5					79.5				
IS	13C-1,2,3,7,8-PeCDF	2.73e+07	1.59 y	0.95	30:25	1.154	1728.8					86.6				
IS	13C-2,3,4,7,8-PeCDF	3.00e+07	1.56 y	0.97	31:20	1.189	1862.5					93.3				
IS	13C-1,2,3,4,7,8-HxCDF	2.56e+07	0.51 y	0.99	34:02	0.988	1718.0					86.1				
IS	13C-1,2,3,6,7,8-HxCDF	2.52e+07	0.53 y	1.10	34:10	0.992	1524.0					76.4				
IS	13C-2,3,4,6,7,8-HxCDF	2.27e+07	0.52 y	1.03	34:46	1.009	1465.6					73.4				
IS	13C-1,2,3,7,8,9-HxCDF	1.93e+07	0.51 y	0.86	35:43	1.037	1494.5					74.9				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.64e+07	0.44 y	0.71	37:30	1.089	1524.1					76.4				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.58e+07	0.43 y	0.71	39:22	1.143	1486.3					74.5				
IS	13C-OCDF	3.82e+07	0.89 y	0.87	42:18	1.228	2905.8					72.8				
C/Up	37C1-2,3,7,8-TCDD	7.86e+06		1.21	26:58	1.024	717.35					89.9				
RS/RT	13C-1,2,3,4-TCDD	1.80e+07	0.80 y	1.00	26:21	*	1995.3						Integrations			Reviewed
RS	13C-1,2,3,4-TCDF	3.31e+07	0.78 y	1.00	24:49	*	1995.3						by			by
RS/RT	13C-1,2,3,4,6,9-HxCDF	3.00e+07	0.51 y	1.00	34:27	*	1995.3						Analyst: <u>AK</u>			Analyst: <u>CT</u>
													Date: <u>12/28/14</u>			Date: <u>12/29/14</u>

Totals class: TCDD EMPC

Entry #: 19

Run: 11 File: 141226D2 S: 6 I: 1 F: 1
 Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 112.23 Unnamed Concentration: 90.639

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
23:19	6.190e+04	8.473e+04	0.73	y	1.466e+05	15.377
23:42	4.293e+04	5.904e+04	0.73	y	1.020e+05	10.694
24:10	1.368e+04	2.078e+04	0.66	y	3.445e+04	3.6133
25:12	2.762e+04	3.759e+04	0.73	y	6.520e+04	6.8381
25:23	9.139e+04	1.147e+05	0.80	y	2.061e+05	21.612
25:35	1.355e+04	1.609e+04	0.84	y	2.964e+04	3.1083
25:49	1.805e+04	1.842e+04	0.98	n	3.260e+04	3.4188
26:00	1.694e+04	2.115e+04	0.80	y	3.809e+04	3.9946
26:21	2.369e+04	2.930e+04	0.81	y	5.299e+04	5.5566
26:42	1.769e+04	2.208e+04	0.80	y	3.977e+04	4.1705
26:57	8.627e+04	1.196e+05	0.72	y	2.059e+05	21.593
27:16	3.484e+04	4.939e+04	0.71	y	8.423e+04	8.8335
27:32	1.299e+04	1.127e+04	1.15	n	1.994e+04	2.0913
27:53	5.522e+03	1.071e+04	0.52	n	1.269e+04	1.3312

2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 11 File: 141226D2 S: 6 I: 1 F: 2
 Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 668.95

Unnamed Concentration: 484.653

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
29:31	7.015e+05	1.151e+06	0.61 y	1.853e+06	165.82	
29:59	1.071e+05	1.815e+05	0.59 y	2.885e+05	25.822	
30:26	1.623e+05	2.456e+05	0.66 y	4.079e+05	36.507	
30:37	4.541e+05	7.431e+05	0.61 y	1.197e+06	107.15	
30:42	1.703e+05	3.104e+05	0.55 y	4.807e+05	43.023	
30:54	2.463e+05	4.297e+05	0.57 y	6.760e+05	60.497	
31:13	2.979e+04	4.897e+04	0.61 y	7.876e+04	7.0488	
31:37	7.809e+05	1.278e+06	0.61 y	2.059e+06	184.30	1,2,3,7,8-PeCDD
31:43	7.567e+04	8.695e+04	0.87 n	1.417e+05	12.684	
31:59	1.078e+05	1.840e+05	0.59 y	2.917e+05	26.107	

Totals class: HxCDD EMPC

Entry #: 23

Run: 11 File: 141226D2 S: 6 I: 1 F: 3
Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 7592.4 Unnamed Concentration: 4842.824

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
33:24	8.502e+06	6.815e+06	1.25	y	1.532e+07	1772.9	
33:58	1.265e+06	1.036e+06	1.22	y	2.302e+06	266.41	
34:14	1.263e+07	1.003e+07	1.26	y	2.267e+07	2623.4	
34:23	4.847e+05	3.958e+05	1.22	y	8.805e+05	101.92	
34:56	2.573e+06	2.043e+06	1.26	y	4.616e+06	536.90	1,2,3,4,7,8-HxCDD
35:02	5.574e+06	4.346e+06	1.28	y	9.920e+06	1149.3	1,2,3,6,7,8-HxCDD
35:14	3.842e+05	2.912e+05	1.32	y	6.755e+05	78.181	
35:20	5.119e+06	4.125e+06	1.24	y	9.245e+06	1063.4	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 11 File: 141226D2 S: 6 I: 1 F: 4
Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 62185

Unnamed Concentration: 22762.189

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
37:55	1.198e+08	1.151e+08	1.04 y	2.349e+08	22762
38:50	2.059e+08	2.008e+08	1.03 y	4.068e+08	39423 1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 11 File: 141226D2 S: 6 I: 1 F: 1
 Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 276.05 Unnamed Concentration: 259.437

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
21:05	2.348e+04	3.367e+04	0.70	y	5.715e+04	4.3549
21:40	3.307e+04	4.730e+04	0.70	y	8.037e+04	6.1242
22:18	3.382e+05	4.010e+05	0.84	y	7.392e+05	56.326
22:50	8.575e+04	1.057e+05	0.81	y	1.915e+05	14.590
23:17	1.410e+05	1.520e+05	0.93	n	2.691e+05	20.503
23:44	1.870e+05	2.300e+05	0.81	y	4.170e+05	31.776
23:53	2.805e+04	3.481e+04	0.81	y	6.286e+04	4.7903
24:03	3.884e+04	5.881e+04	0.66	y	9.765e+04	7.4415
24:27	1.102e+04	1.644e+04	0.67	y	2.746e+04	2.0924
24:35	2.412e+04	3.900e+04	0.62	n	5.544e+04	4.2244
24:44	1.723e+05	1.970e+05	0.87	y	3.693e+05	28.146
24:50	1.417e+05	2.152e+05	0.66	y	3.569e+05	27.199
25:18	6.585e+04	1.005e+05	0.66	y	1.663e+05	12.673
25:33	2.598e+04	3.679e+04	0.71	y	6.277e+04	4.7830
25:44	1.873e+04	2.468e+04	0.76	y	4.341e+04	3.3077
25:56	1.208e+04	1.702e+04	0.71	y	2.910e+04	2.2176
26:02	2.548e+04	2.803e+04	0.91	n	4.961e+04	3.7804
26:09	9.790e+04	1.201e+05	0.81	y	2.180e+05	16.615
26:29	9.418e+04	1.292e+05	0.73	y	2.233e+05	17.019
28:00	4.740e+04	5.875e+04	0.81	y	1.061e+05	8.0888

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 11 File: 141226D2 S: 6 I: 1 F: 1
Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 604.30 Unnamed Concentration: 604.298

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
27:59	5.543e+06	3.691e+06	1.50 y	9.233e+06	604.30

Totals class: PeCDF EMPC

Entry #: 31

Run: 11 File: 141226D2 S: 6 I: 1 F: 2
 Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 600.44 Unnamed Concentration: 546.991

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
29:27	3.112e+06	1.991e+06	1.56 y	5.102e+06	333.93
29:51	7.120e+04	4.361e+04	1.63 y	1.148e+05	7.5143
30:02	9.704e+05	6.358e+05	1.53 y	1.606e+06	105.12
30:14	1.439e+05	9.332e+04	1.54 y	2.372e+05	15.525
30:25	2.468e+05	1.568e+05	1.57 y	4.036e+05	27.130
30:40	3.524e+05	2.145e+05	1.64 y	5.669e+05	37.104
31:14	7.261e+04	4.744e+04	1.53 y	1.201e+05	7.8570
31:20	2.523e+05	1.599e+05	1.58 y	4.122e+05	26.320
31:23	3.355e+05	2.019e+05	1.66 y	5.374e+05	35.173
32:14	4.428e+04	3.380e+04	1.31 n	7.285e+04	4.7680

Totals class: HxCDF EMPC

Entry #: 33

Run: 11 File: 141226D2 S: 6 I: 1 F: 3
 Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 5773.1 Unnamed Concentration: 5145.129

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
32:53	5.223e+06	4.062e+06	1.29 y	9.285e+06	619.67	
33:02	2.049e+07	1.569e+07	1.31 y	3.618e+07	2414.9	
33:23	3.973e+05	3.072e+05	1.29 y	7.045e+05	47.017	
33:35	1.708e+07	1.323e+07	1.29 y	3.030e+07	2022.5	
33:56	3.420e+05	2.729e+05	1.25 y	6.149e+05	41.039	
34:03	2.088e+06	1.529e+06	1.37 y	3.617e+06	202.73	1,2,3,4,7,8-HxCDF
34:11	1.404e+06	1.107e+06	1.27 y	2.510e+06	157.56	1,2,3,6,7,8-HxCDF
34:46	1.929e+06	1.454e+06	1.33 y	3.384e+06	228.48	2,3,4,6,7,8-HxCDF
35:45	2.515e+05	2.000e+05	1.26 y	4.515e+05	39.185	1,2,3,7,8,9-HxCDF

Totals class: HpCDF EMPC

Entry #: 35

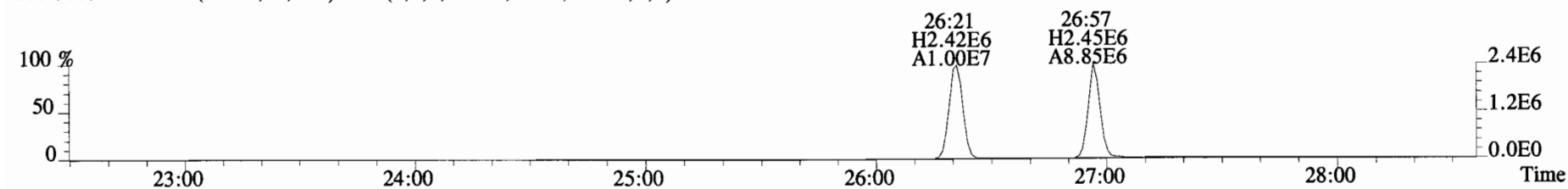
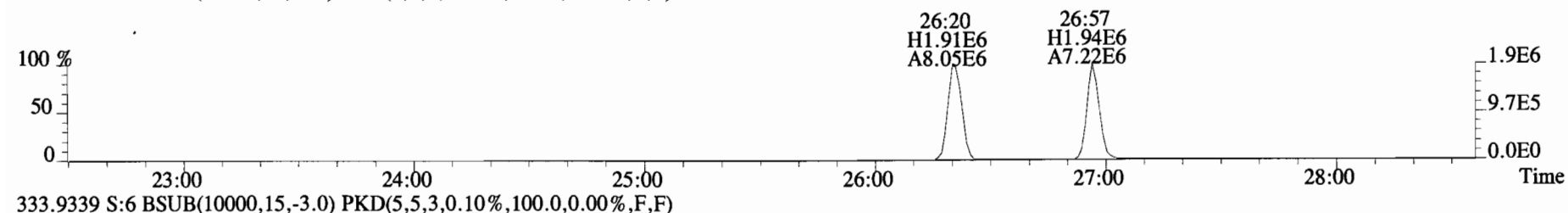
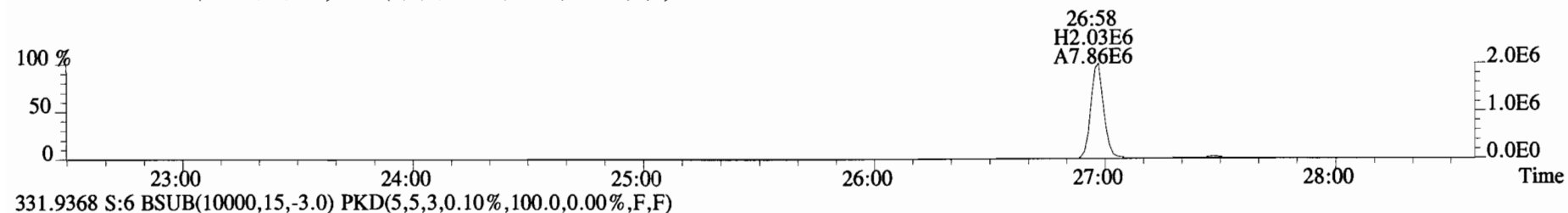
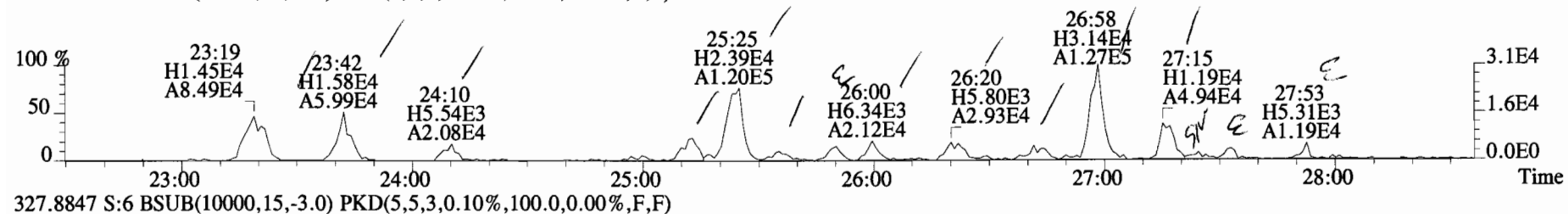
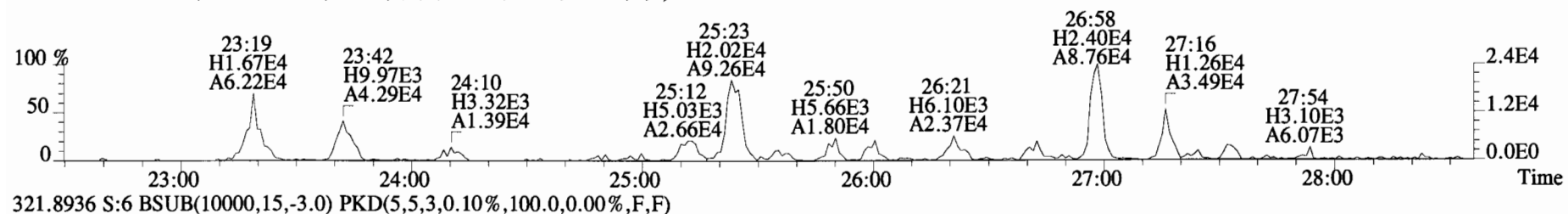
Run: 11 File: 141226D2 S: 6 I: 1 F: 4
 Acquired: 27-DEC-14 00:27:53 Processed: 27-DEC-14 13:28:10

Total Concentration: 22316

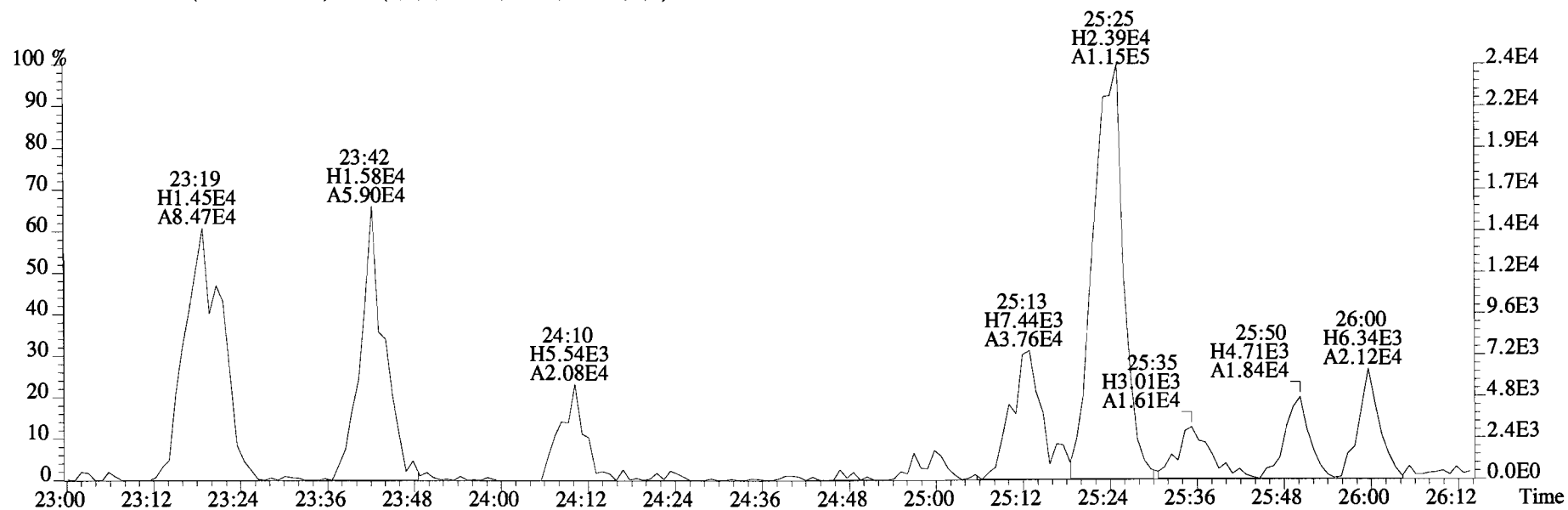
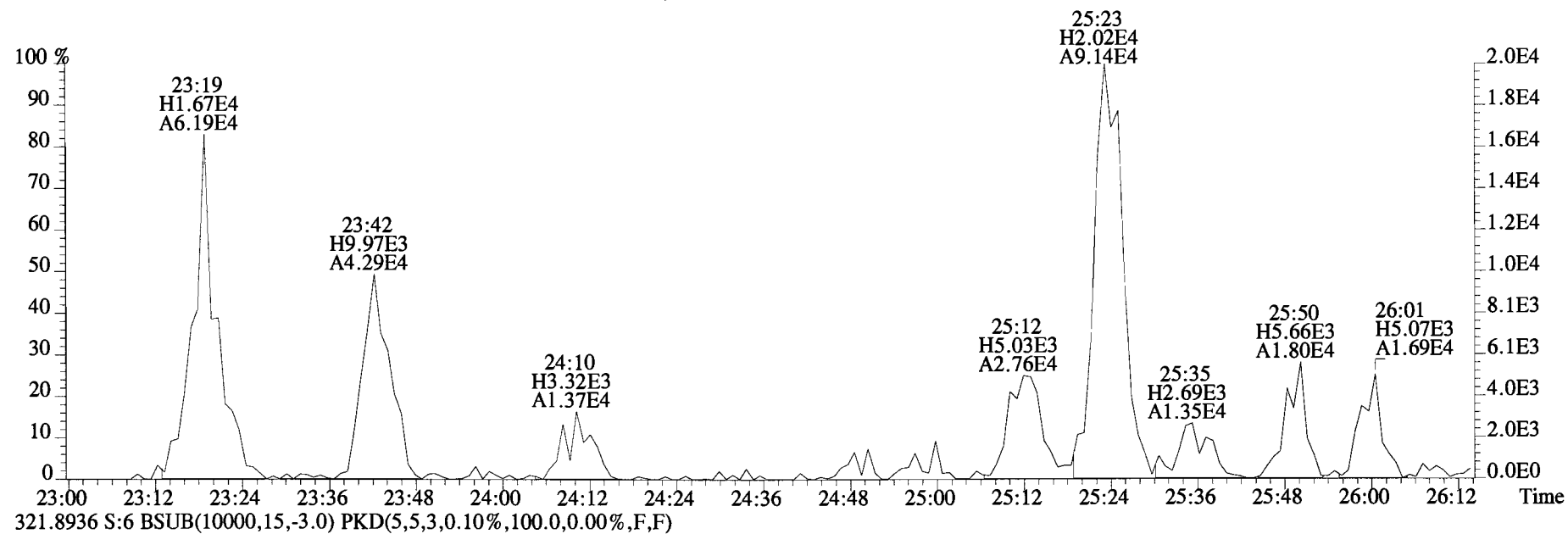
Unnamed Concentration: 16308.297

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Resp Concentration	Name
37:31	3.790e+07	3.503e+07	1.08 y	7.293e+07	5502.0	1,2,3,4,6,7,8-HpCDF
37:55	8.535e+05	7.681e+05	1.11 y	1.622e+06	127.89	
38:08	1.070e+08	9.814e+07	1.09 y	2.052e+08	16180	
39:22	3.158e+06	2.962e+06	1.07 y	6.120e+06	505.24	1,2,3,4,7,8,9-HpCDF

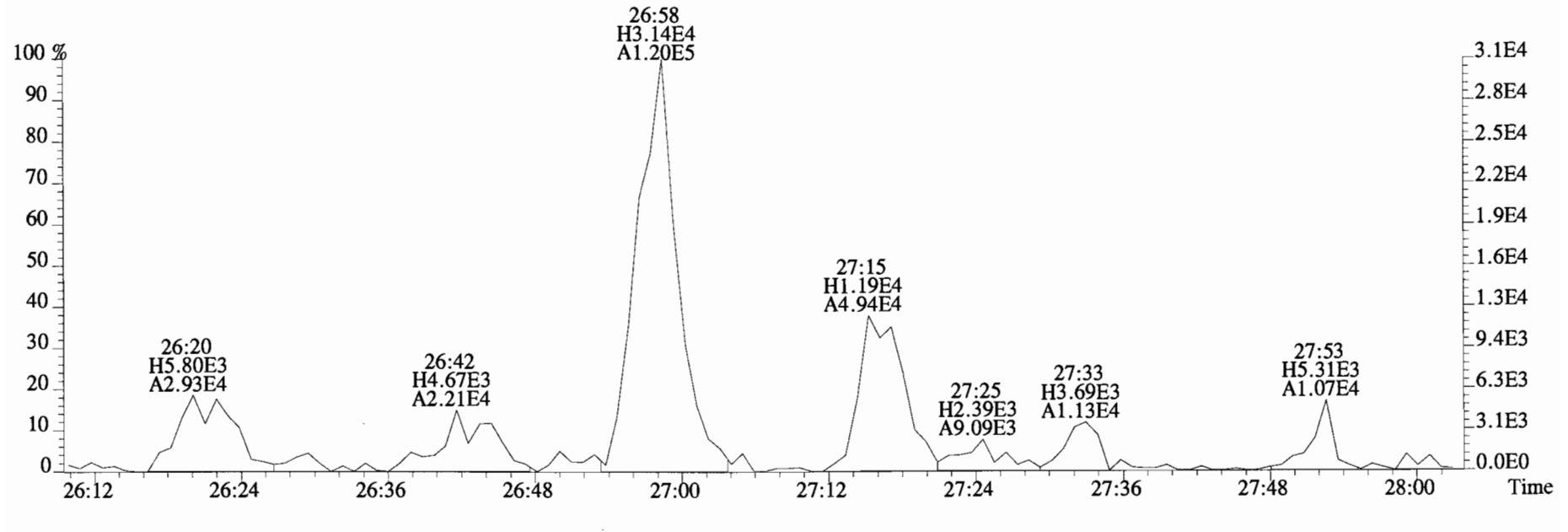
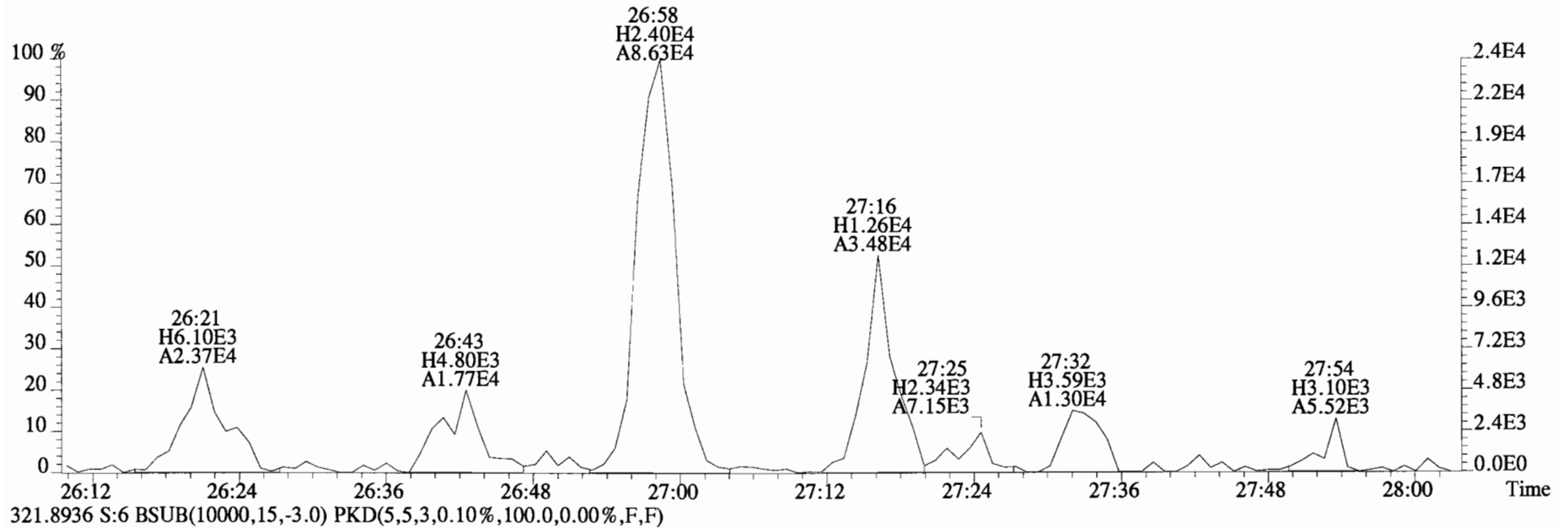
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Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



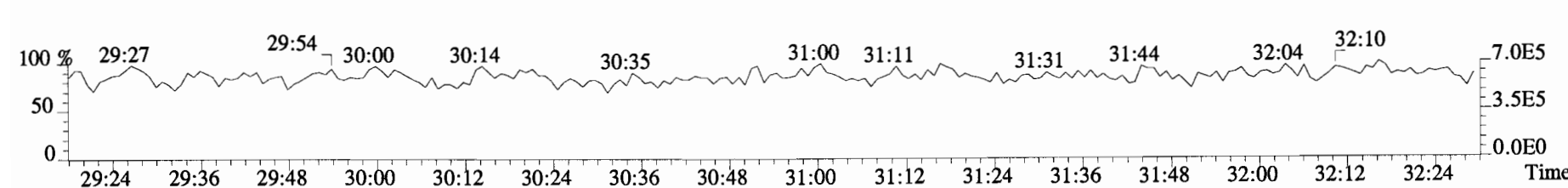
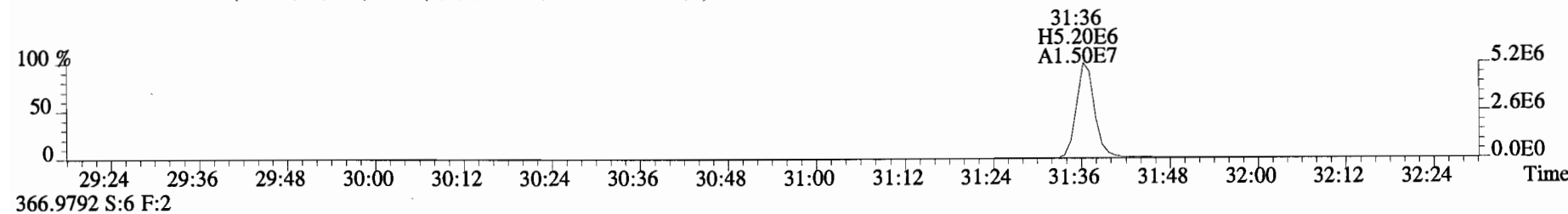
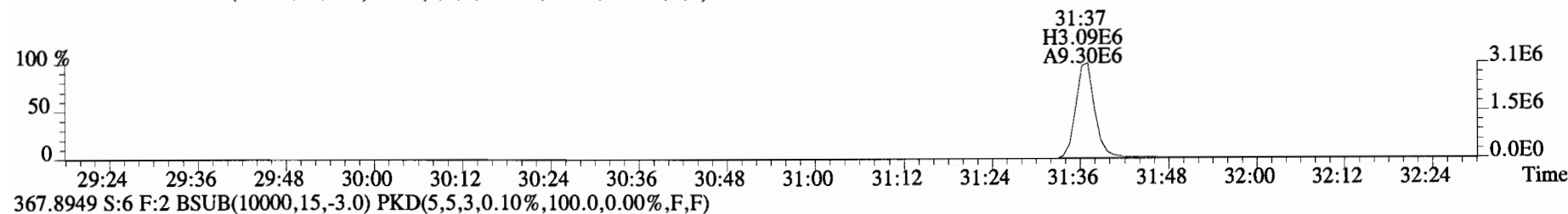
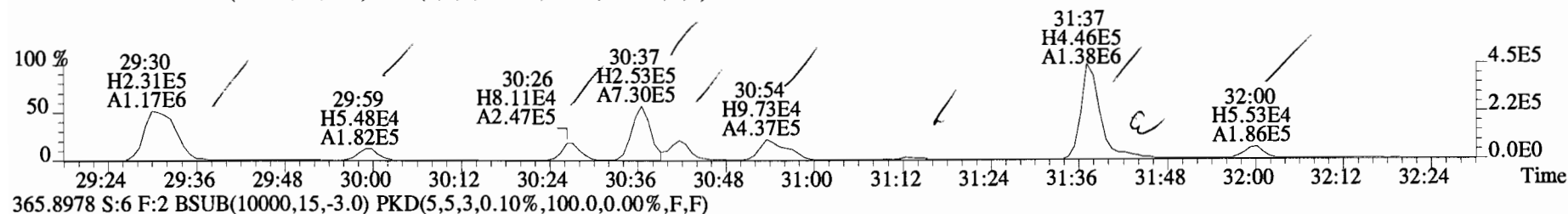
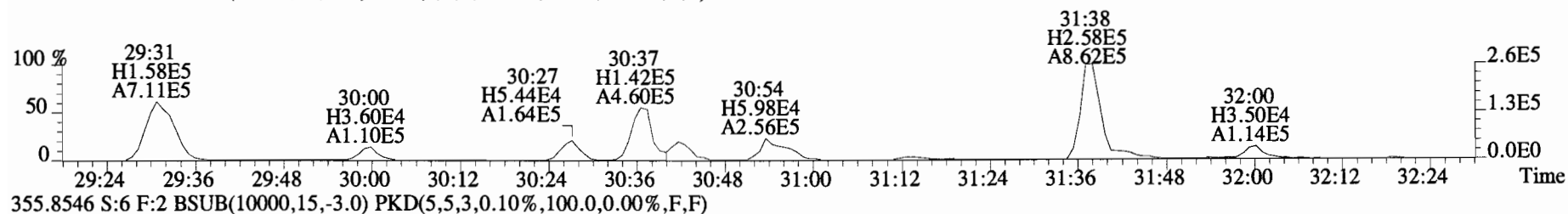
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 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



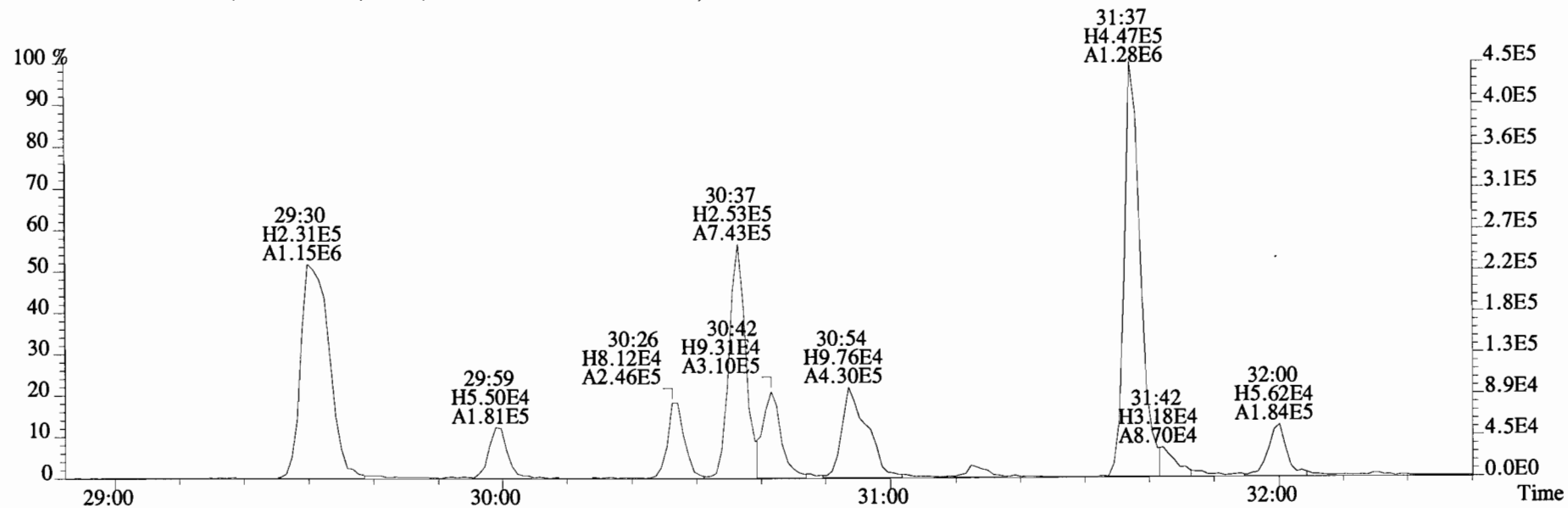
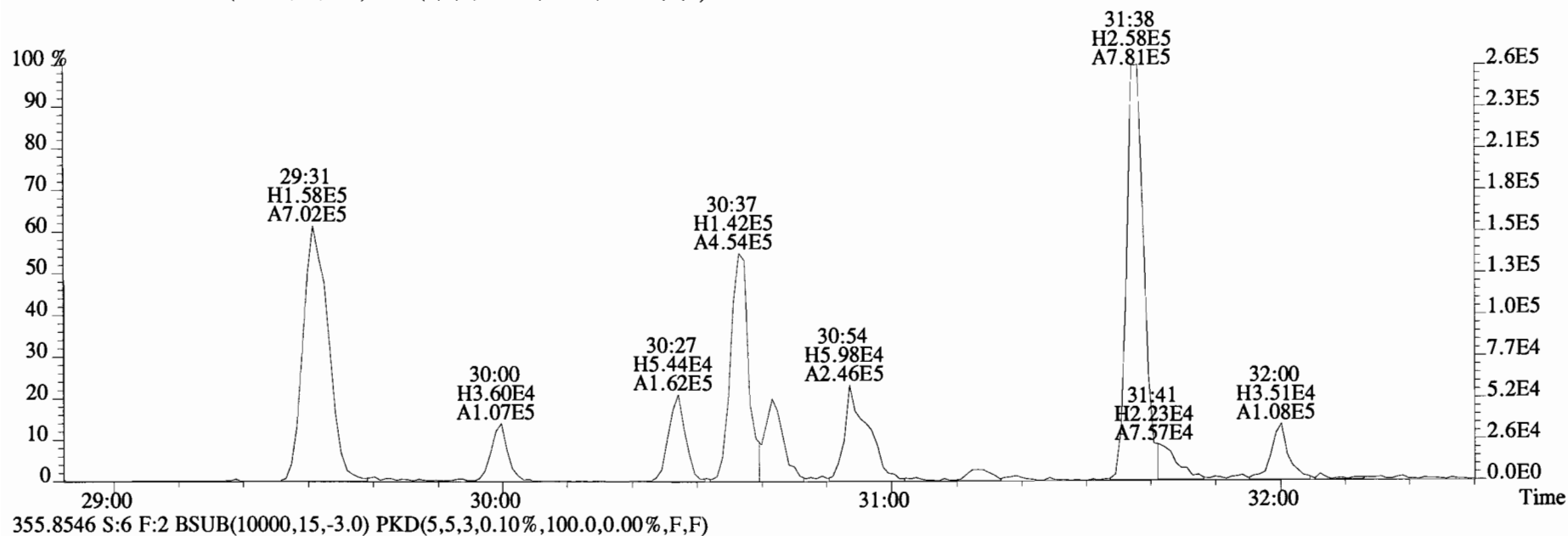
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 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



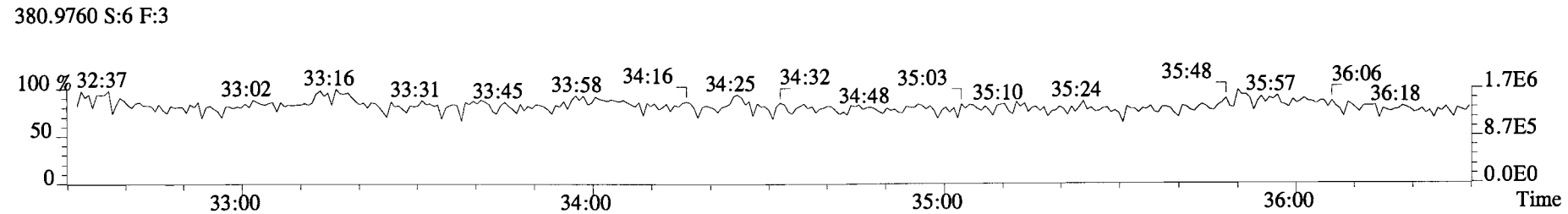
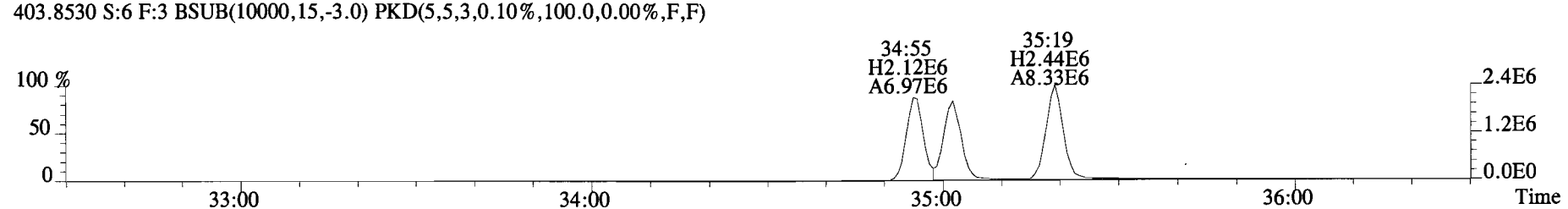
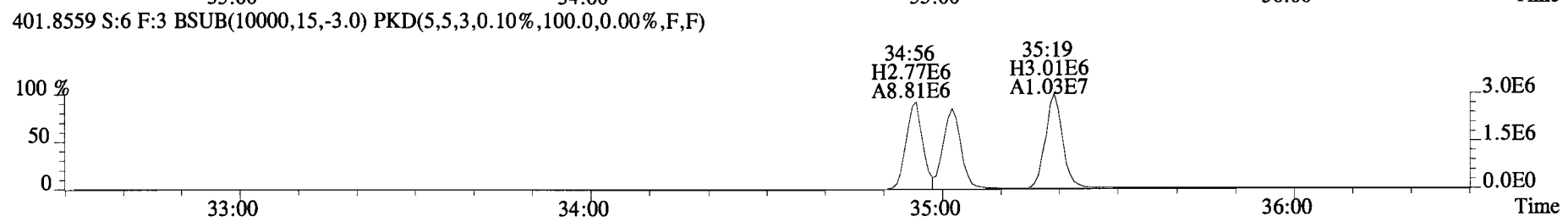
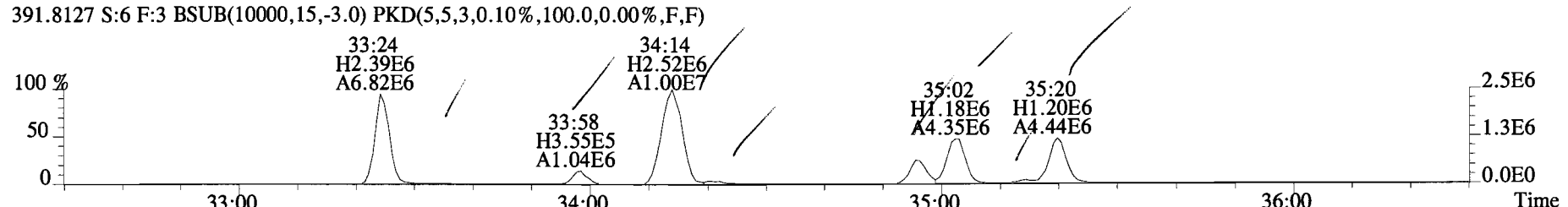
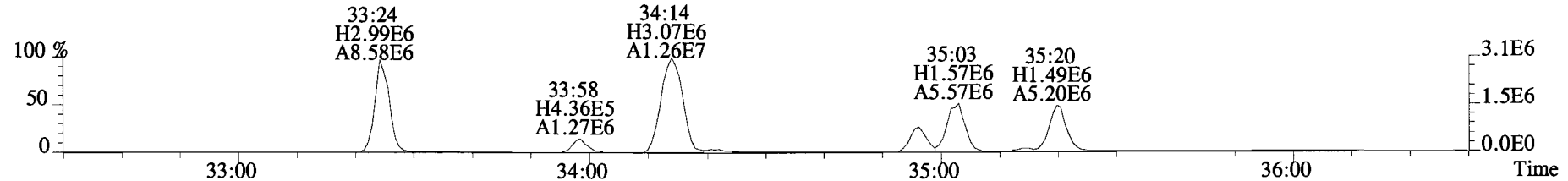
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Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
353.8576 S:6 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



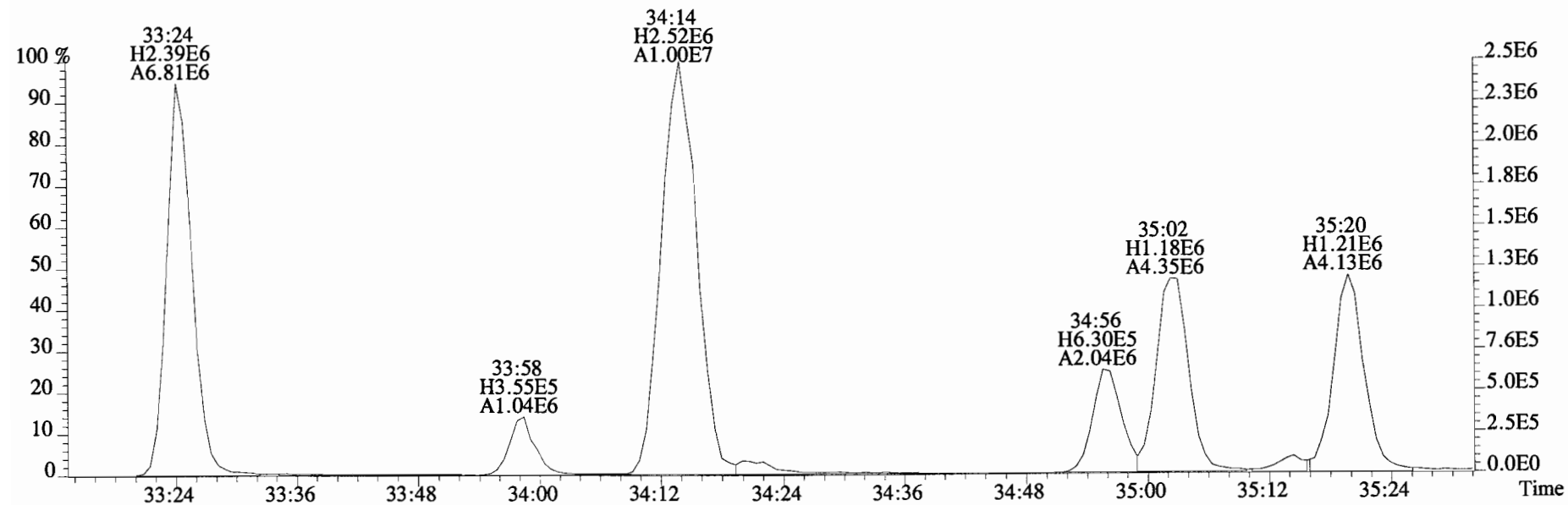
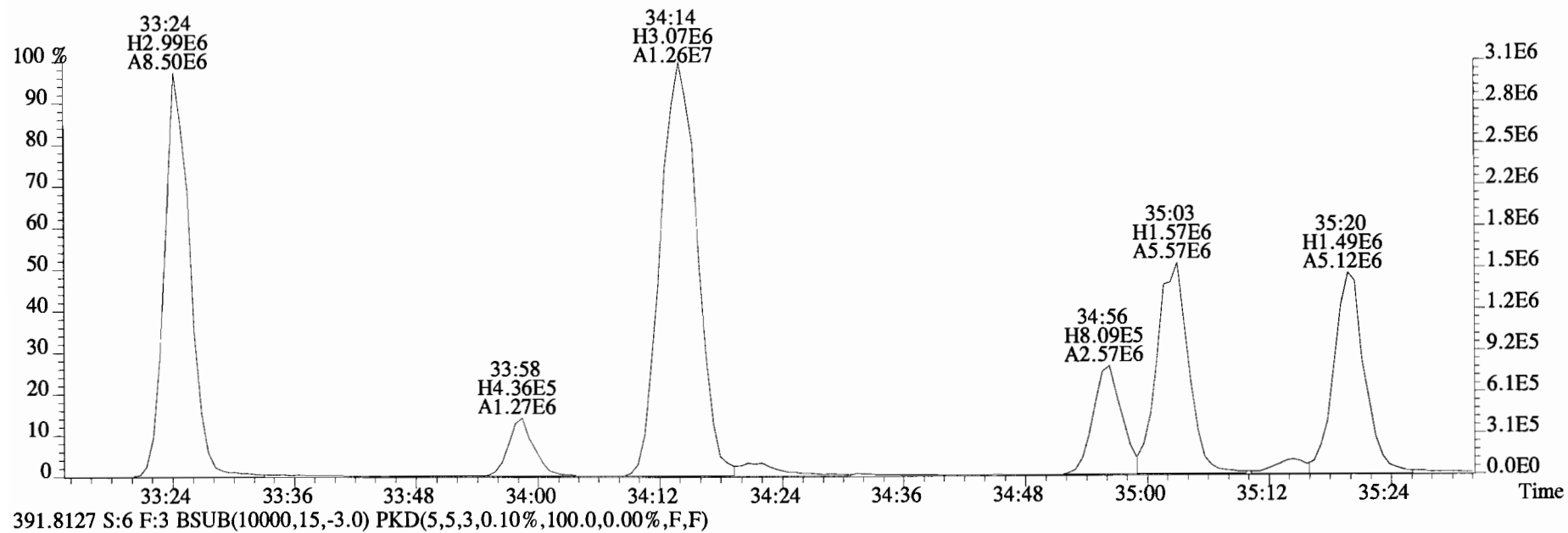
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 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



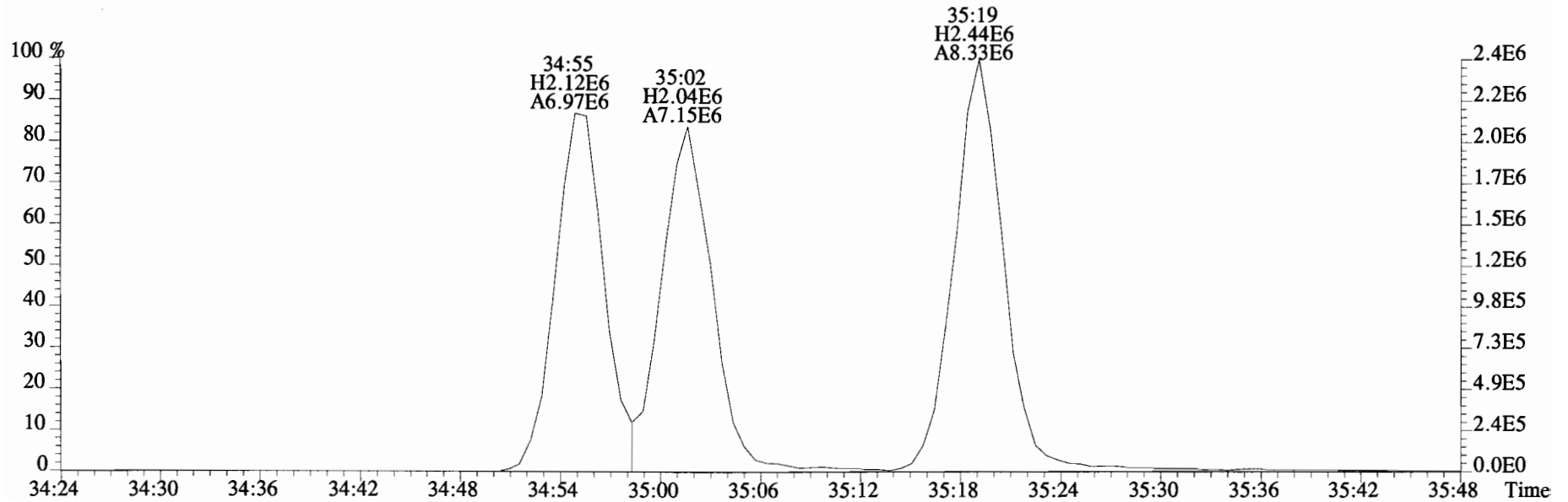
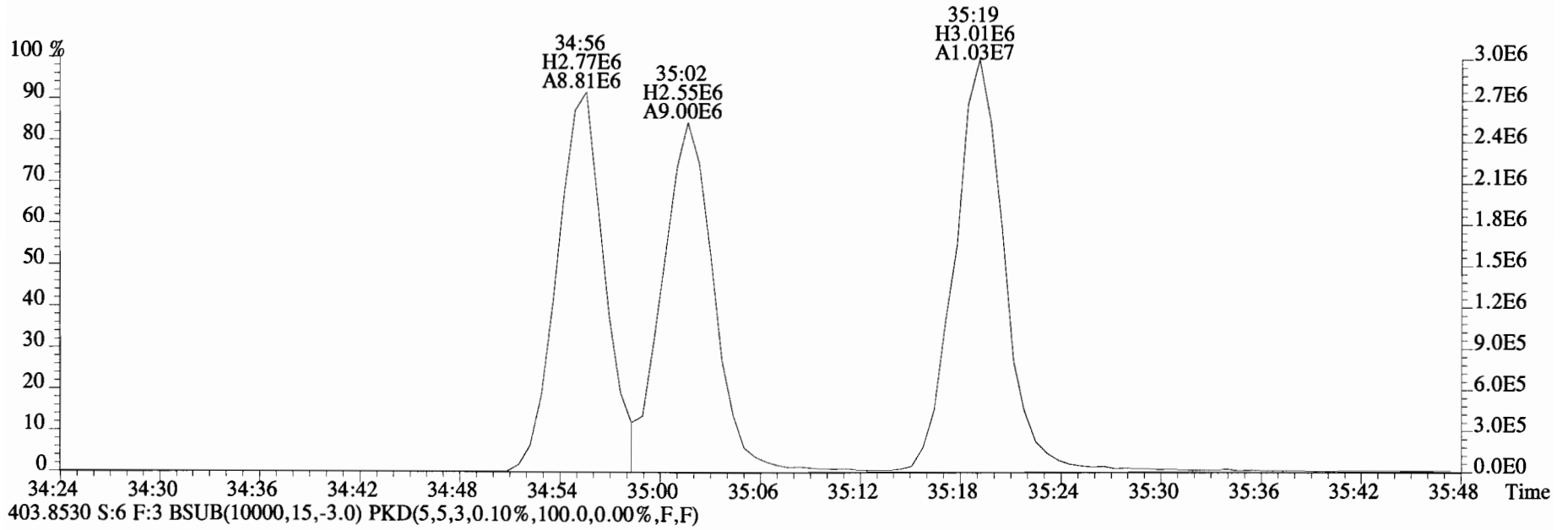
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



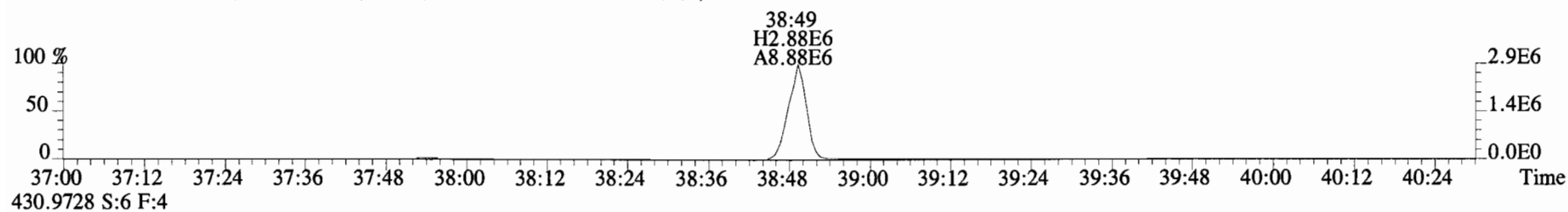
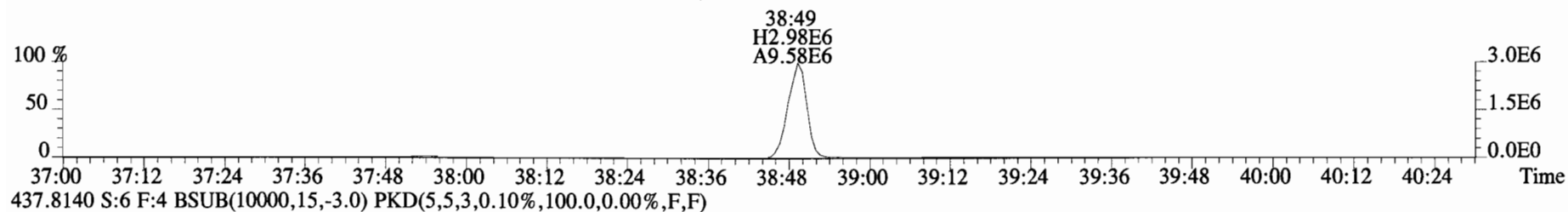
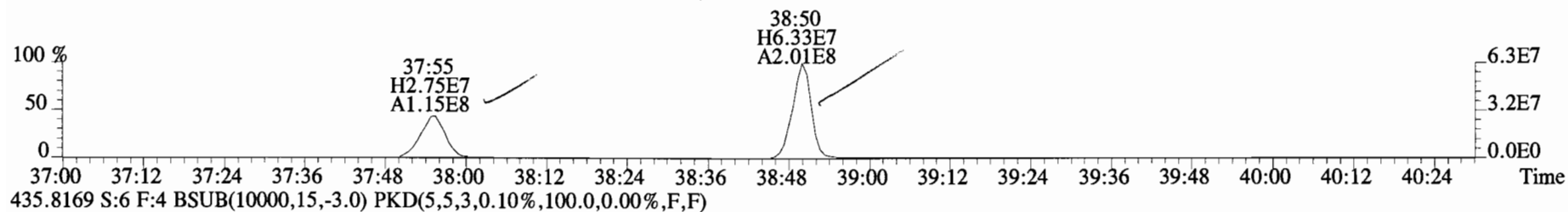
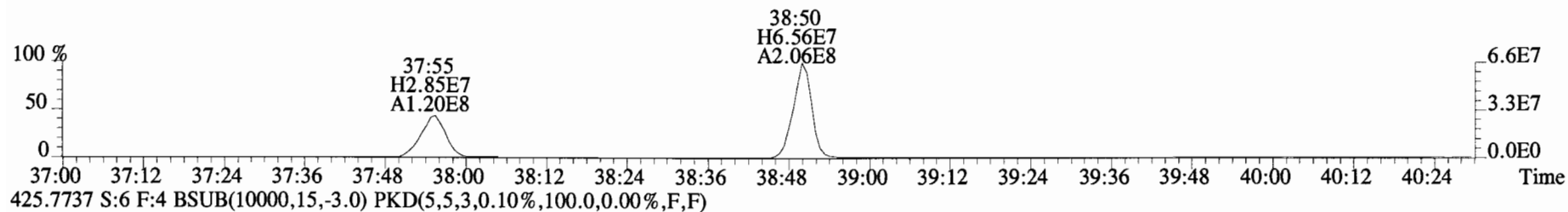
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



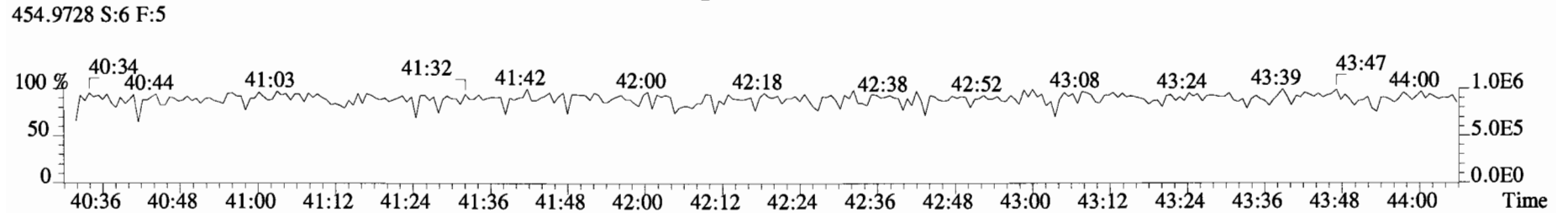
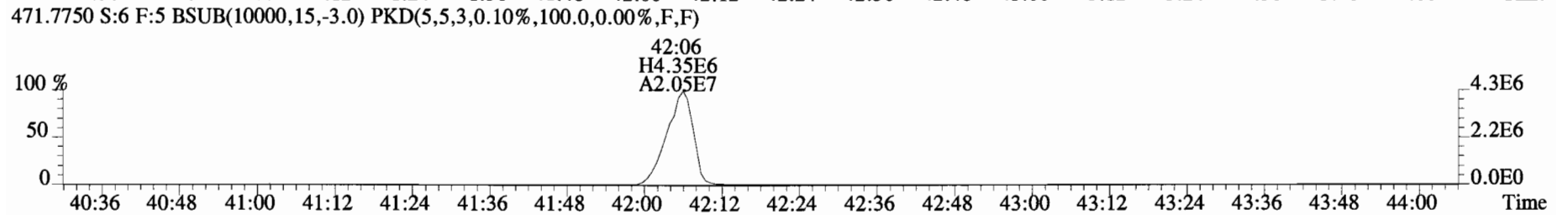
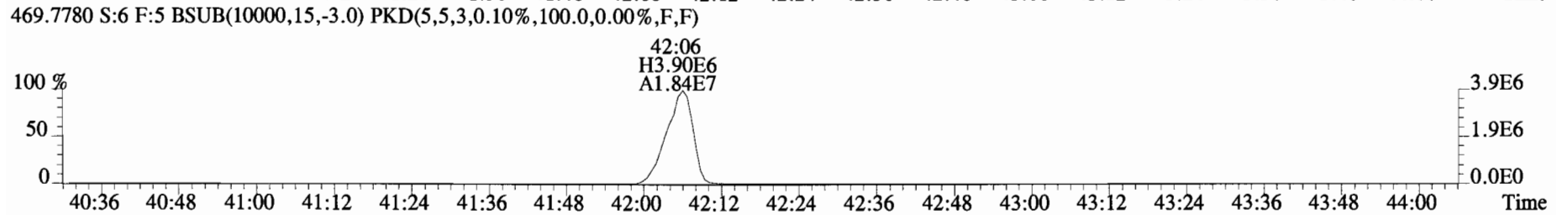
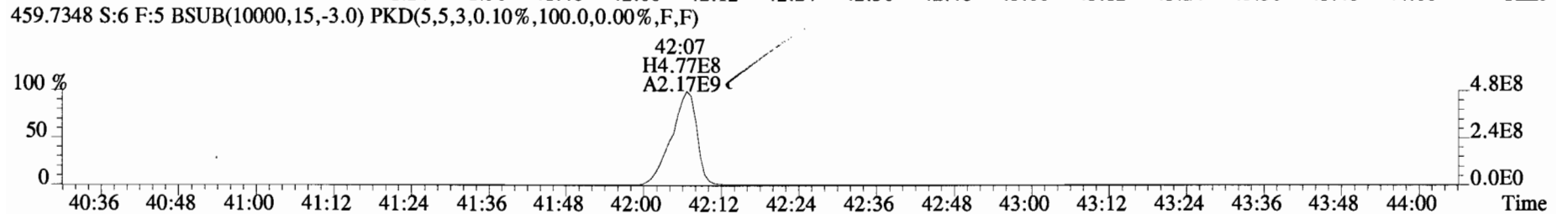
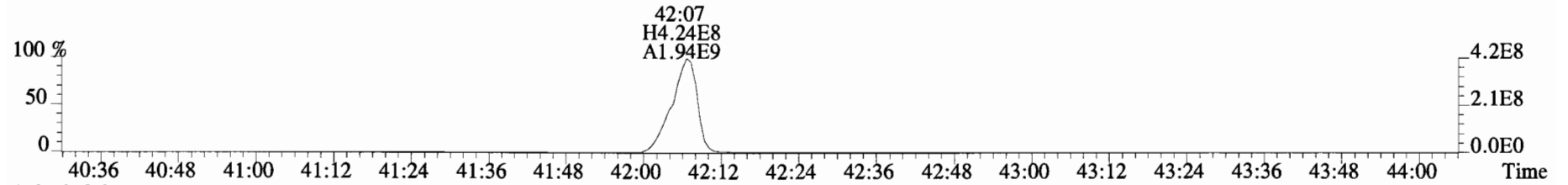
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



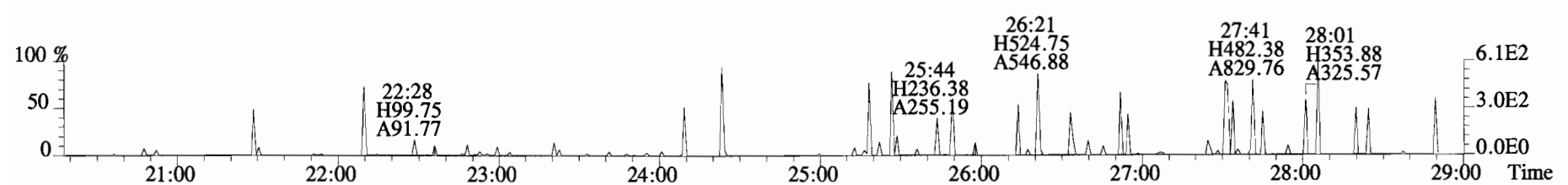
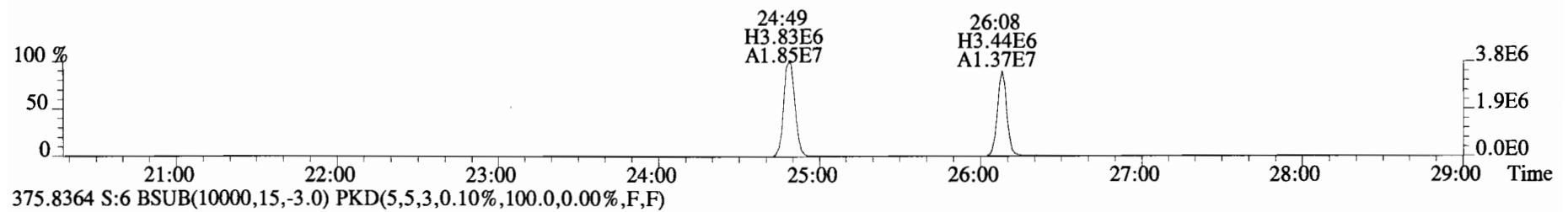
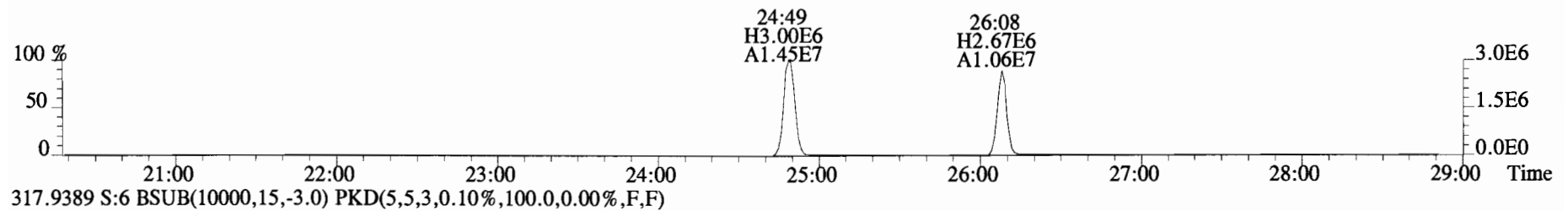
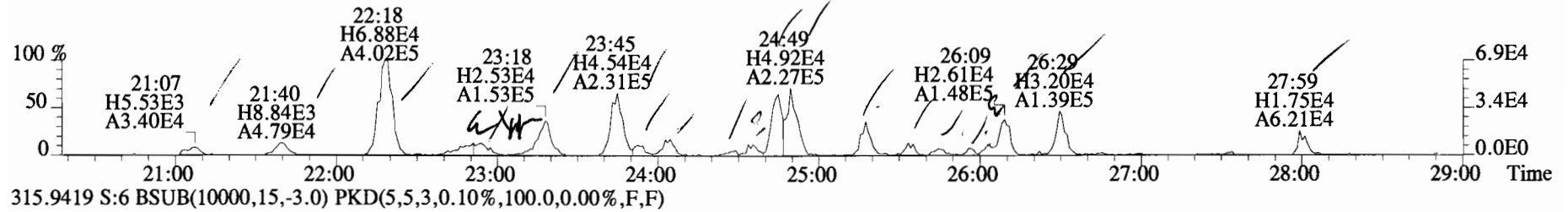
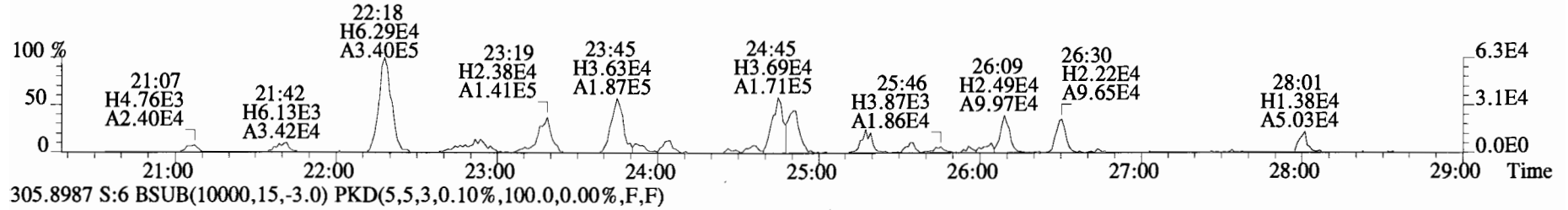
File:141226D2 #1-325 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



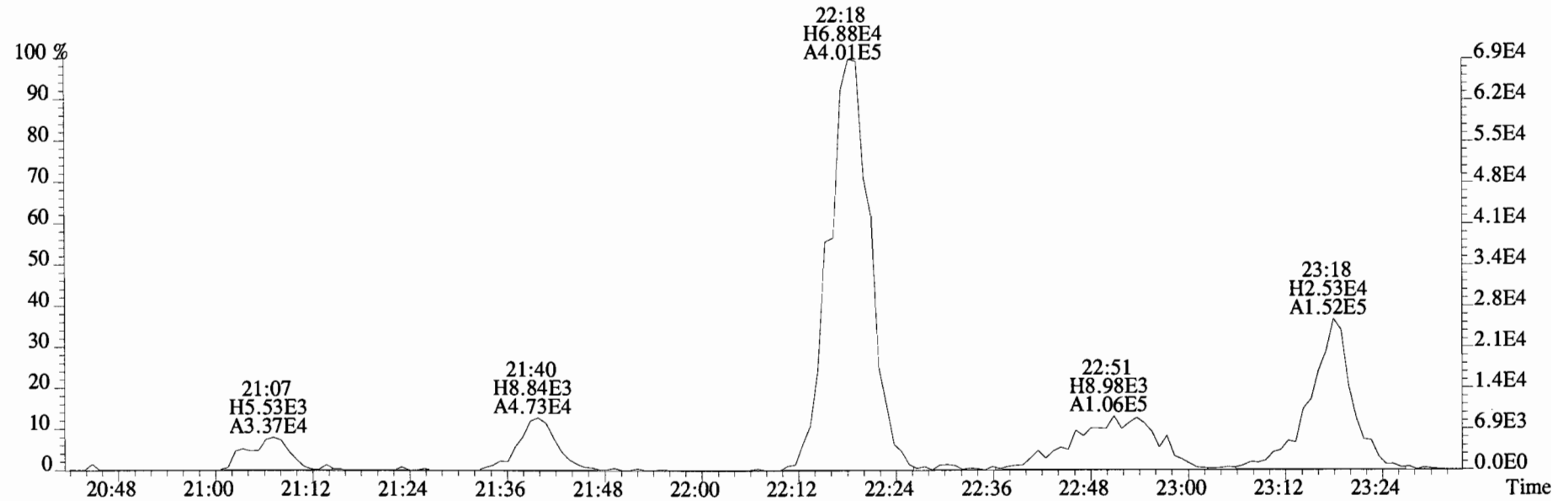
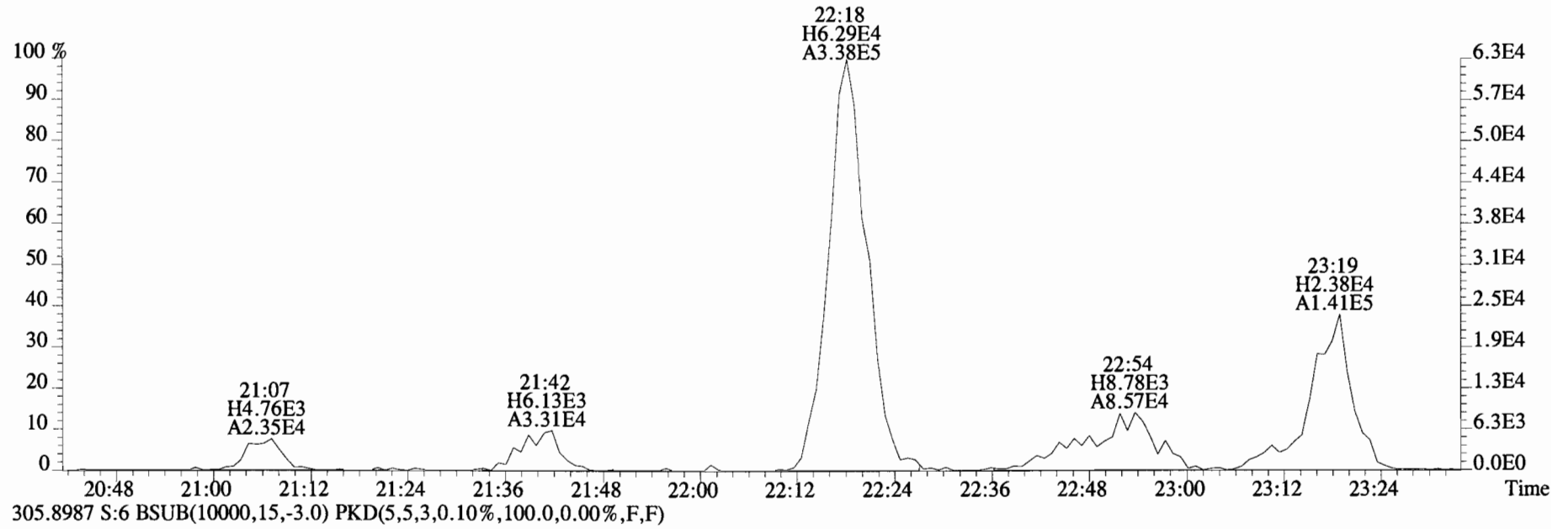
File:141226D2 #1-389 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



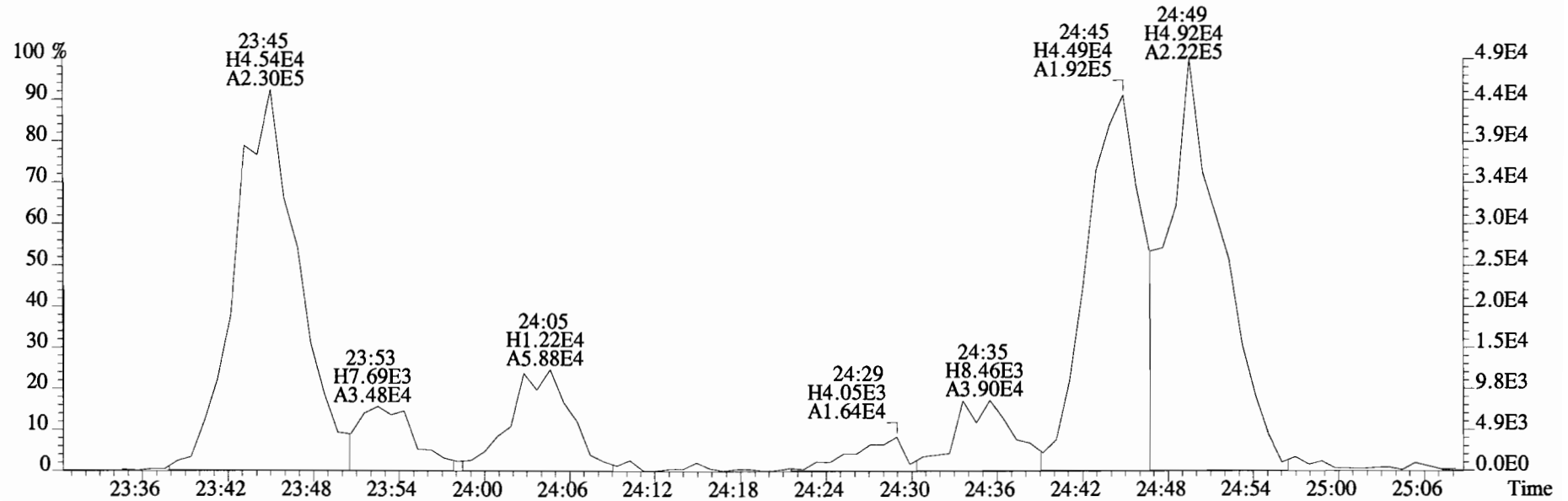
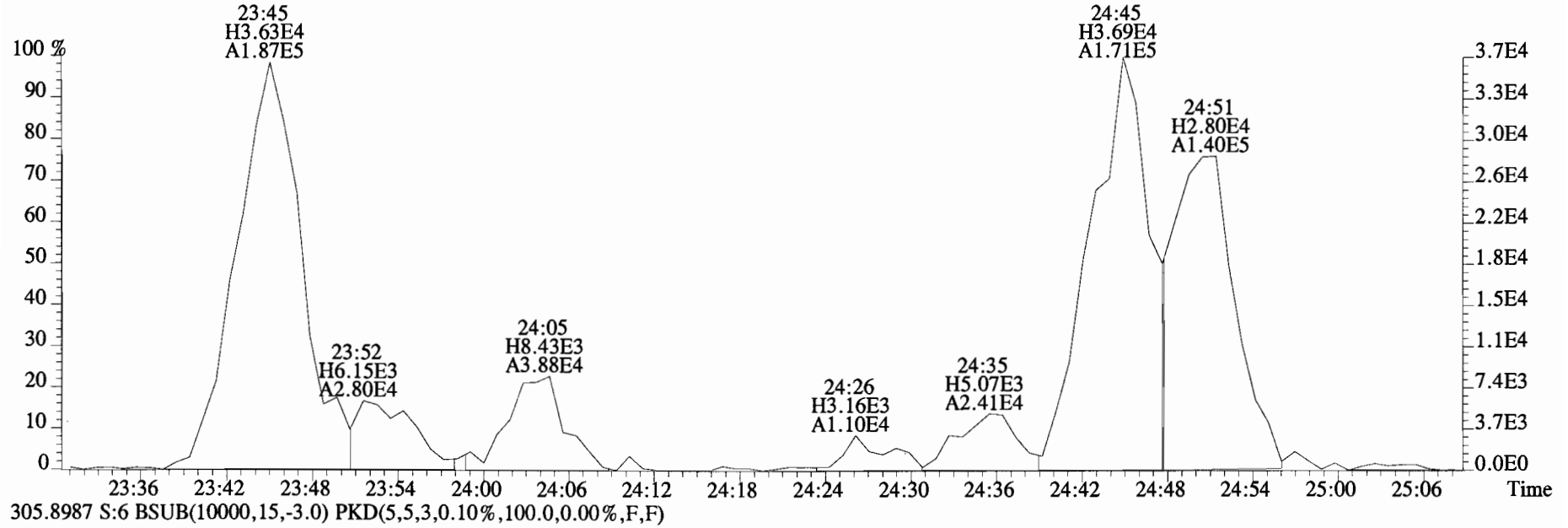
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



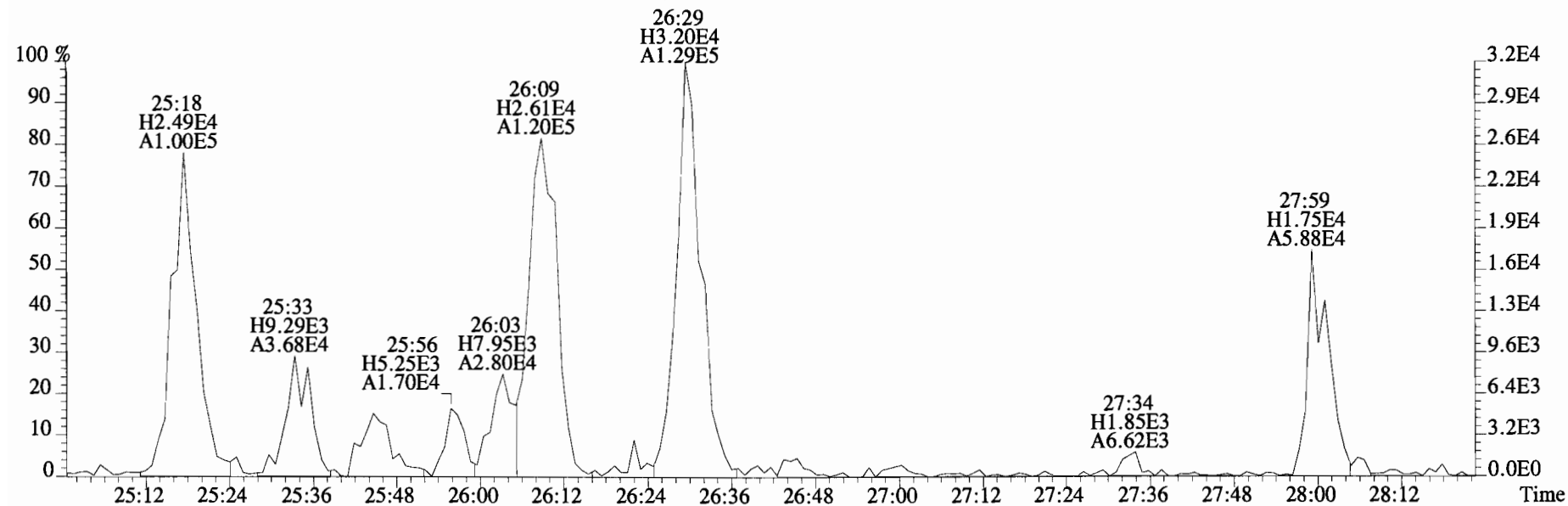
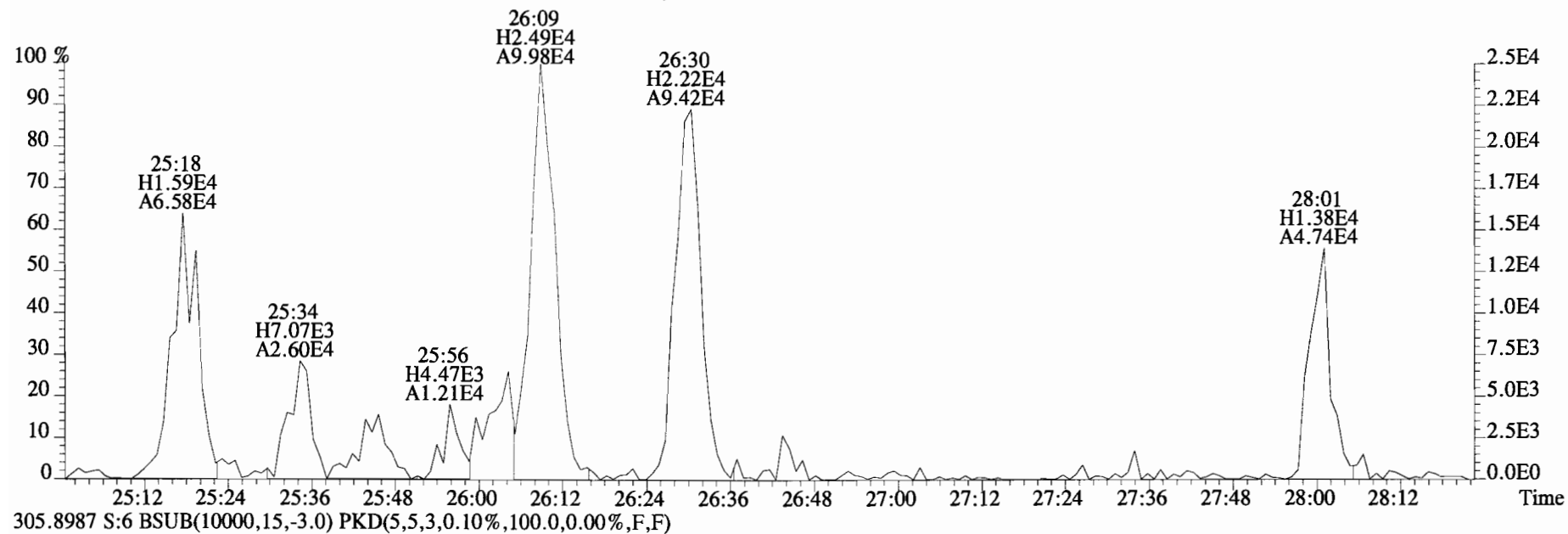
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



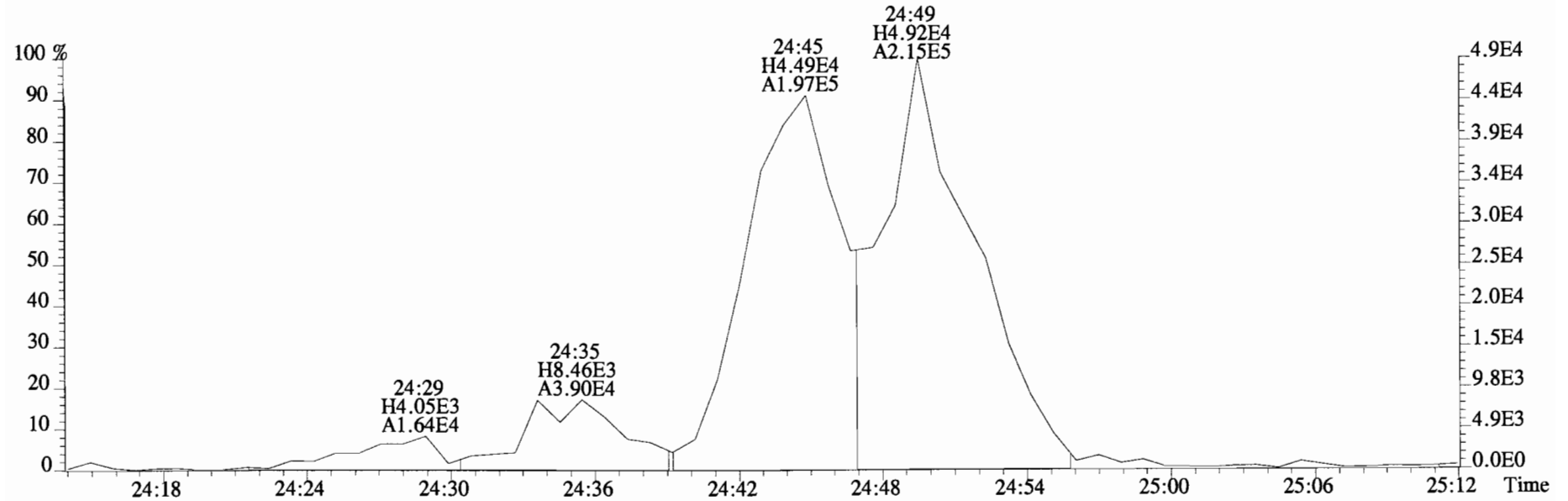
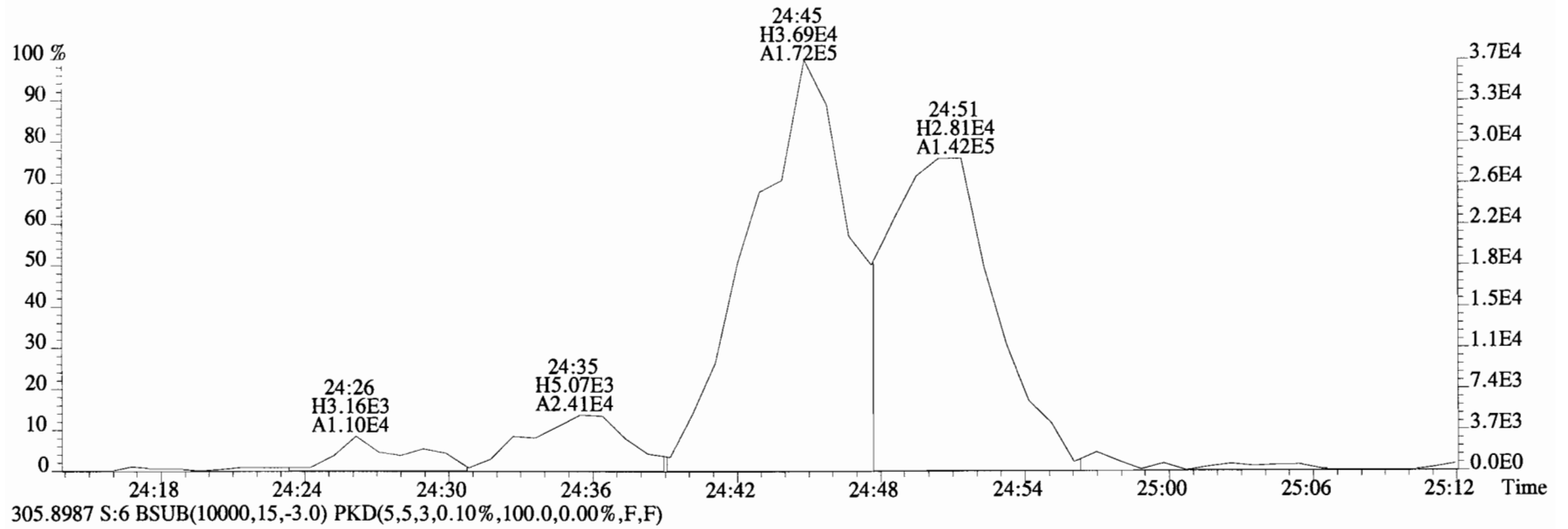
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



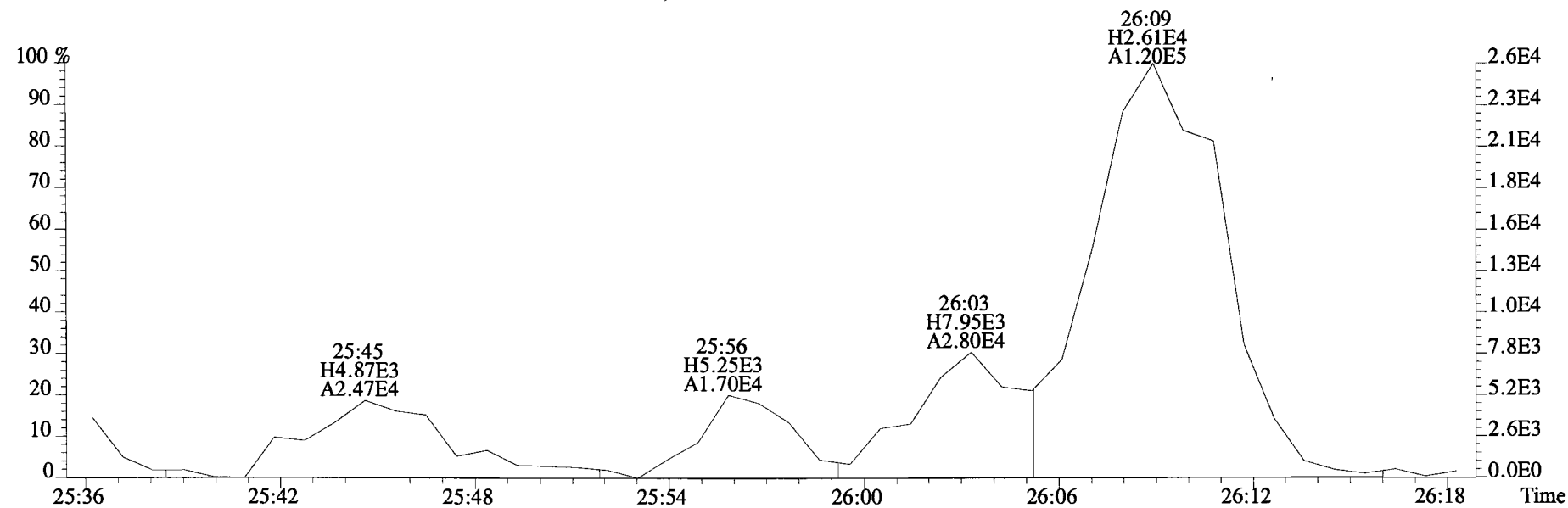
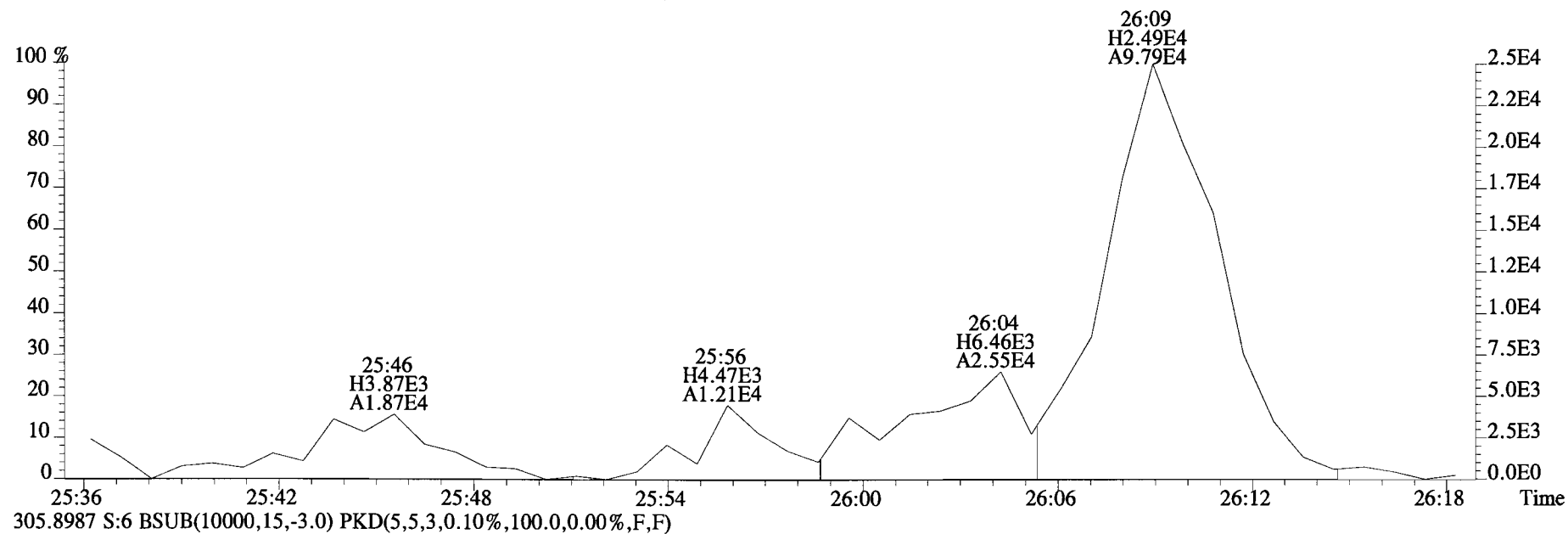
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



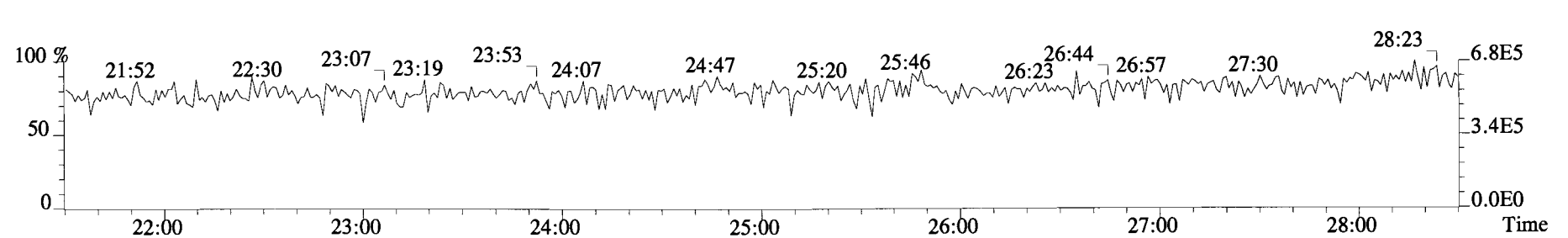
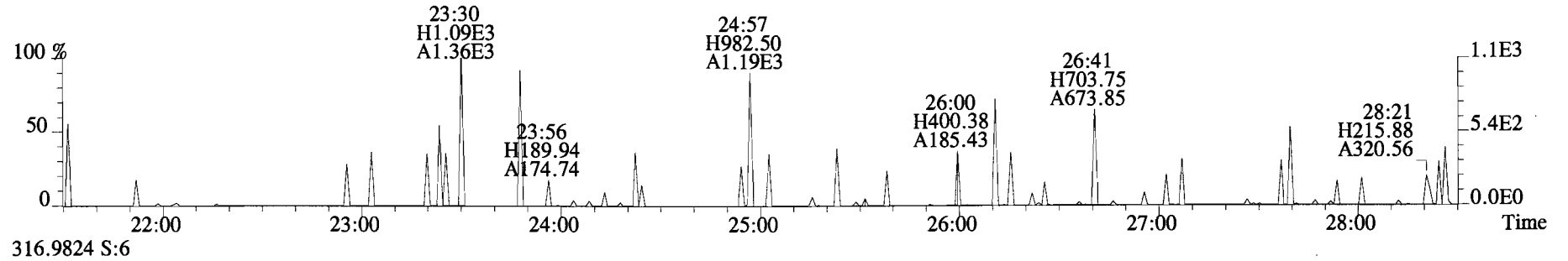
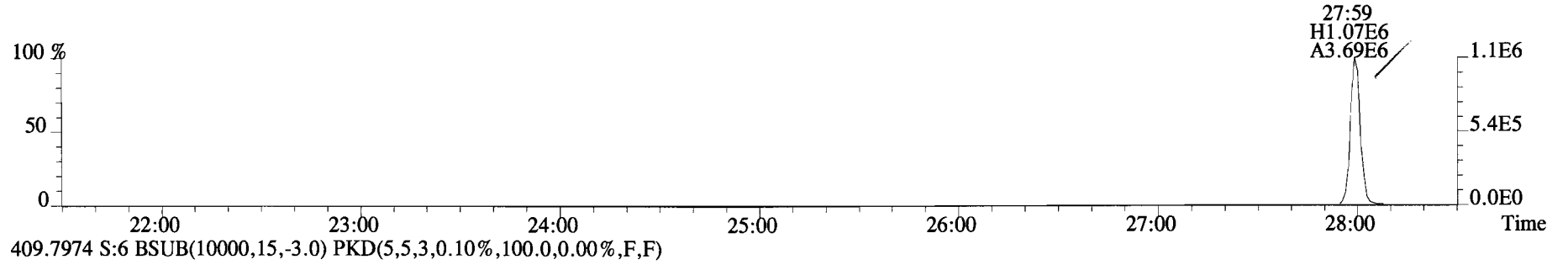
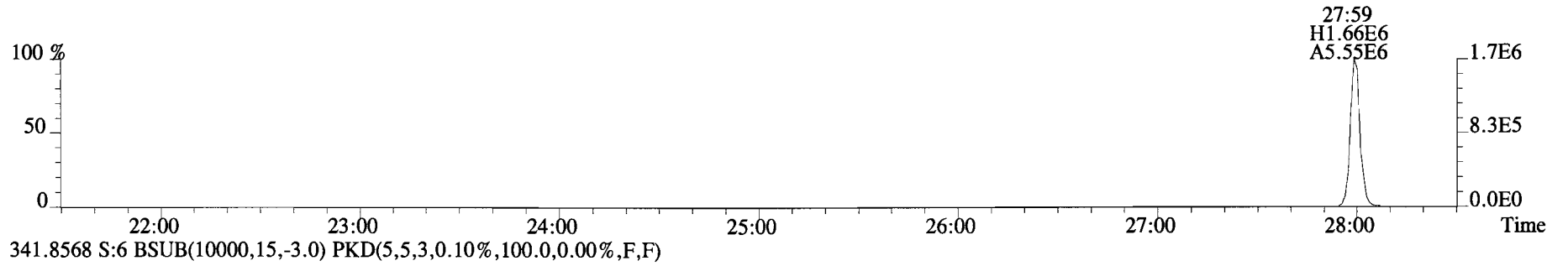
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



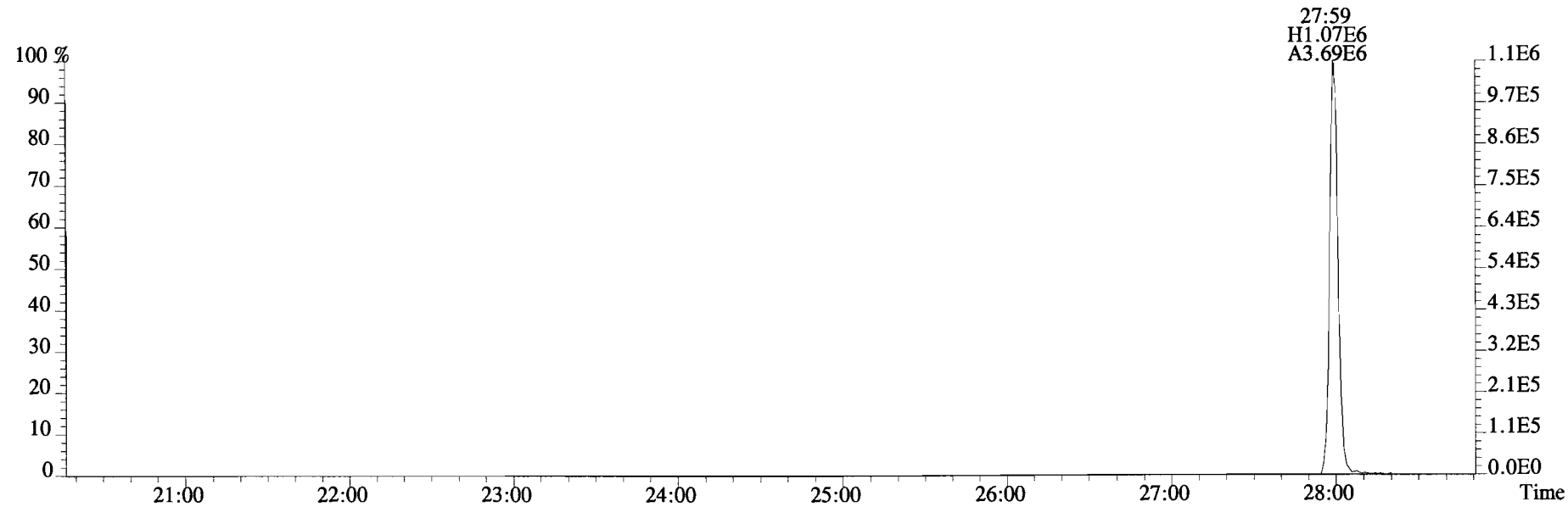
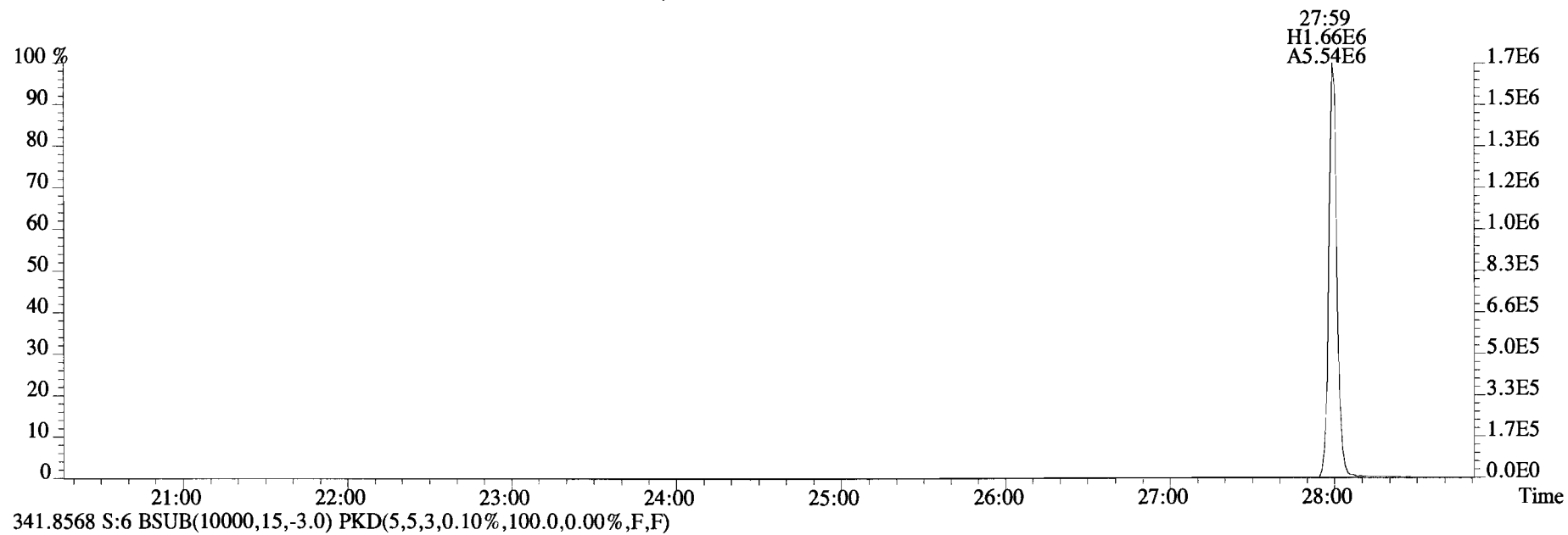
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



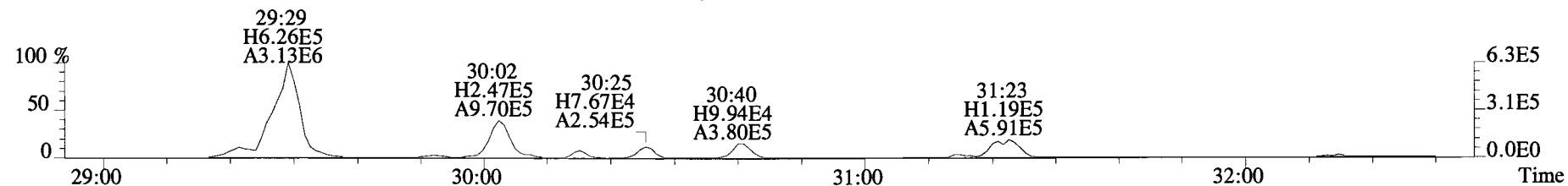
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



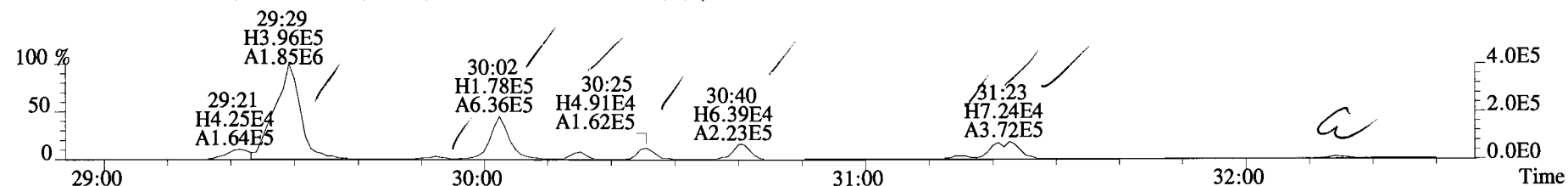
File:141226D2 #1-551 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



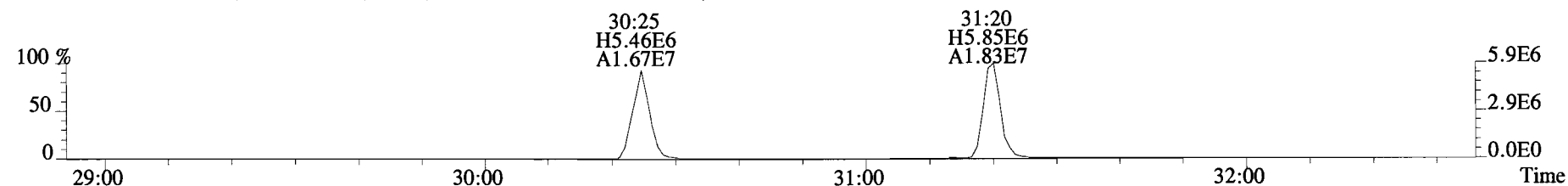
File:141226D2 #1-256 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



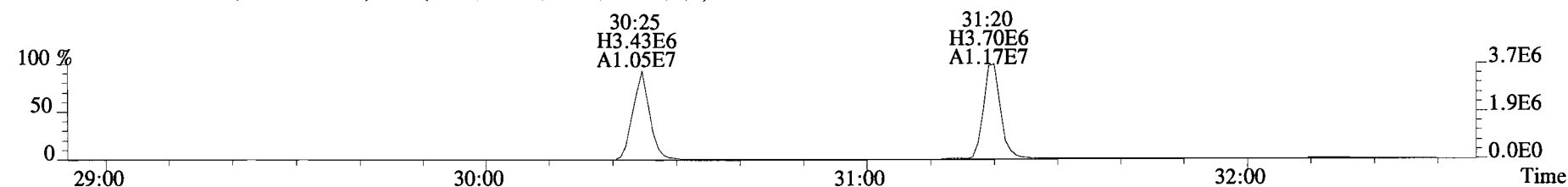
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



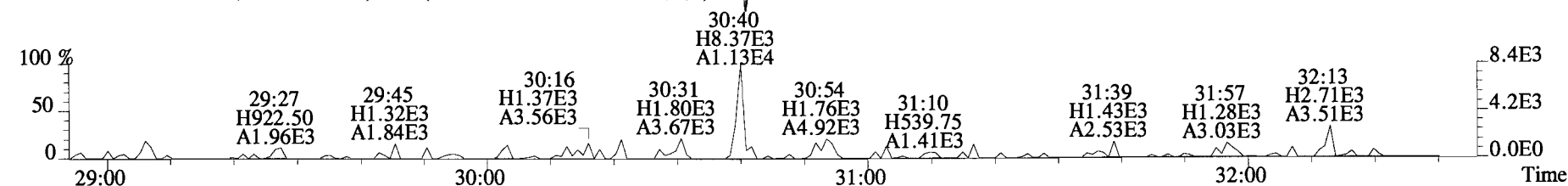
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



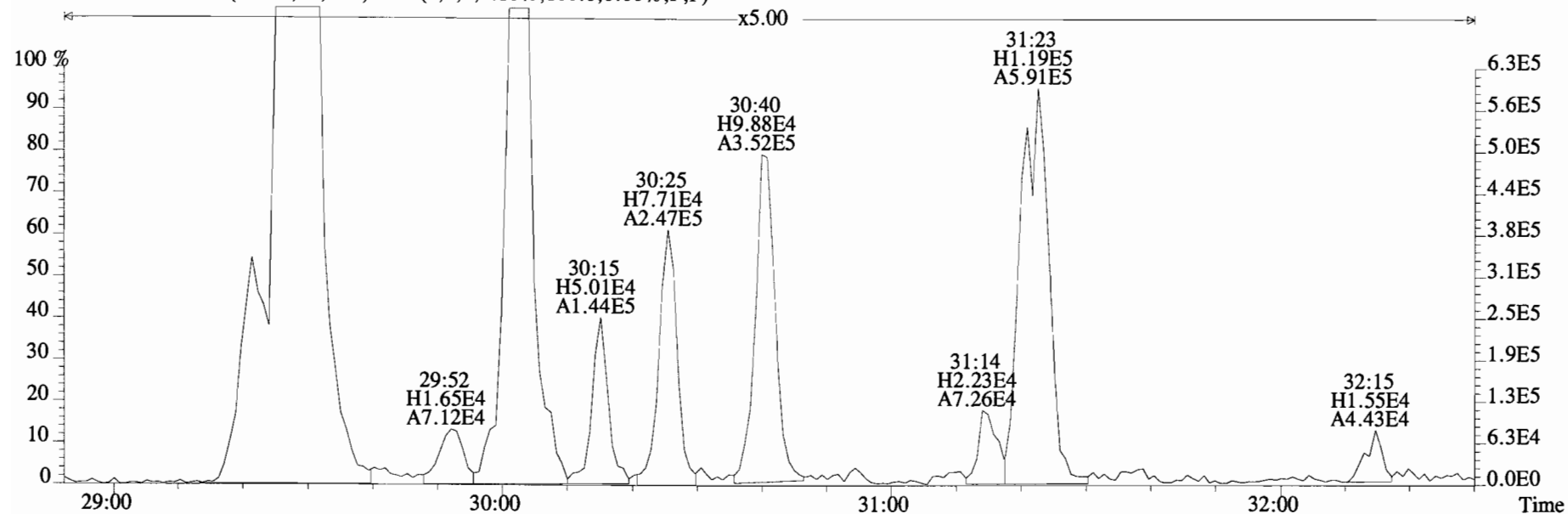
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



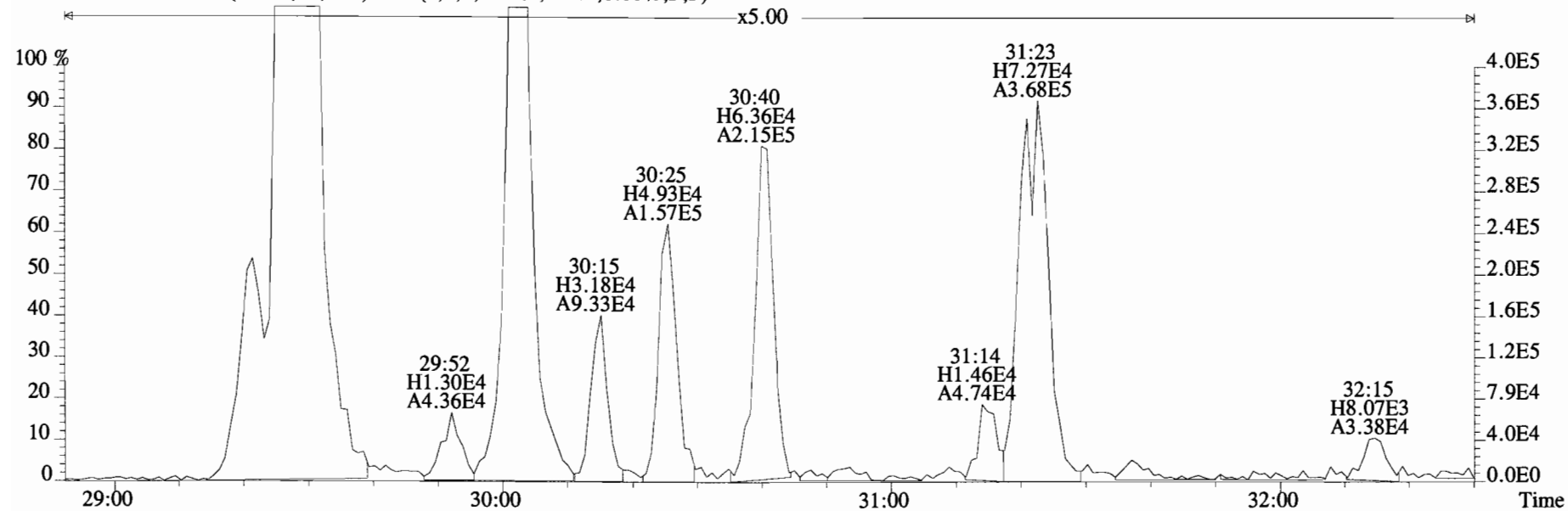
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



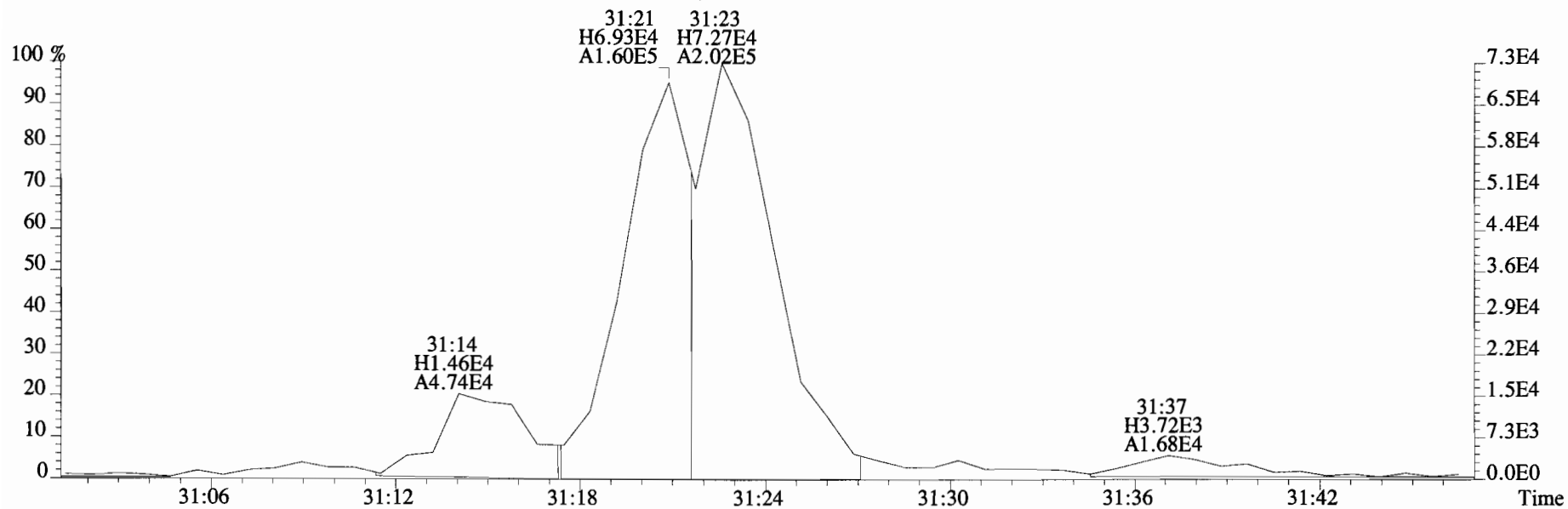
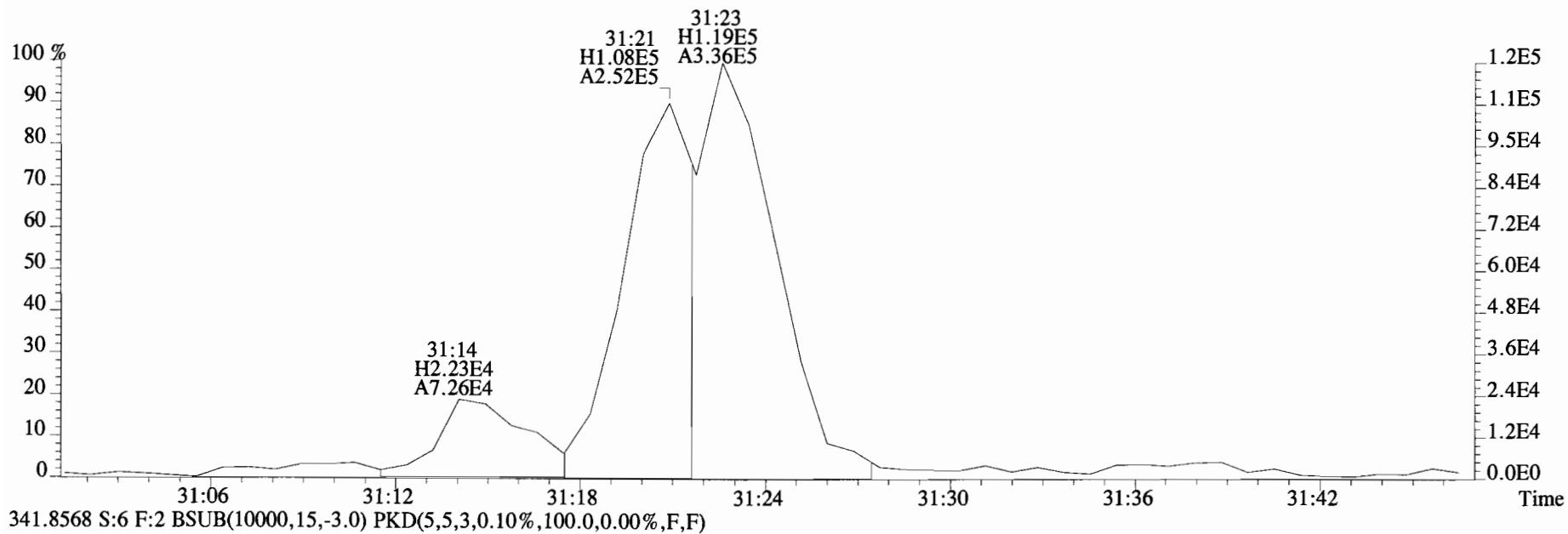
File:141226D2 #1-256 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



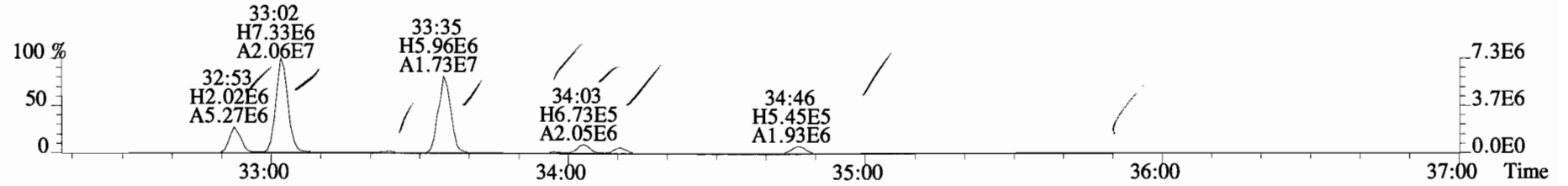
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



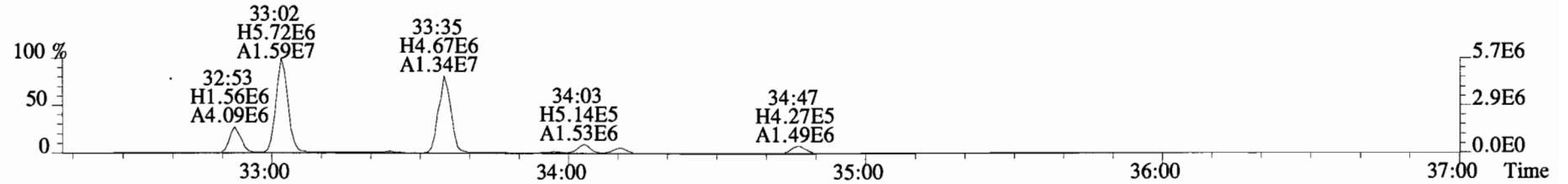
File:141226D2 #1-256 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



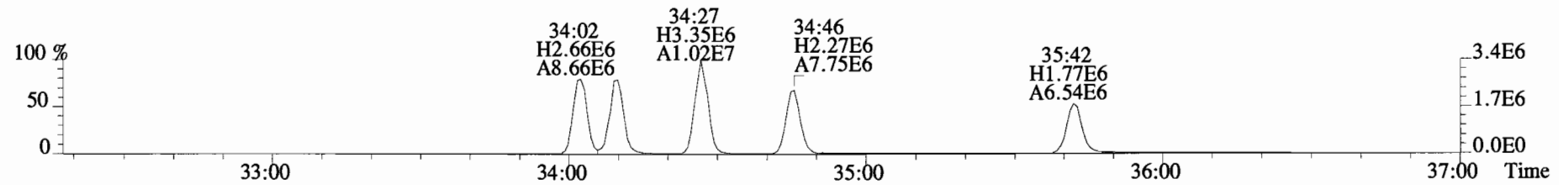
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



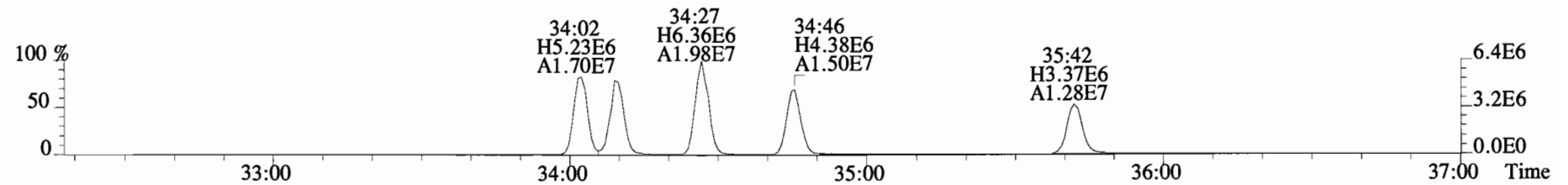
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



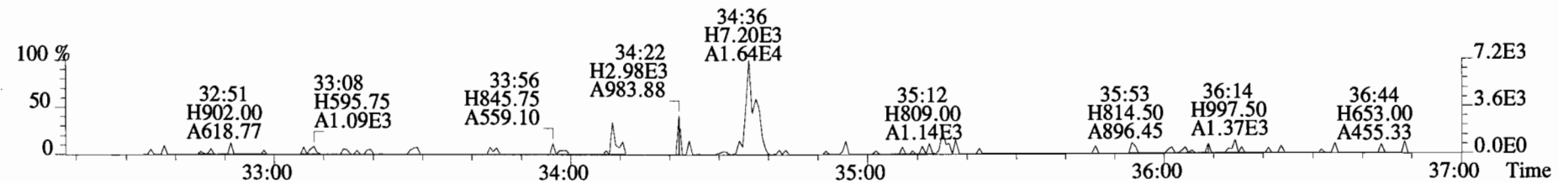
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



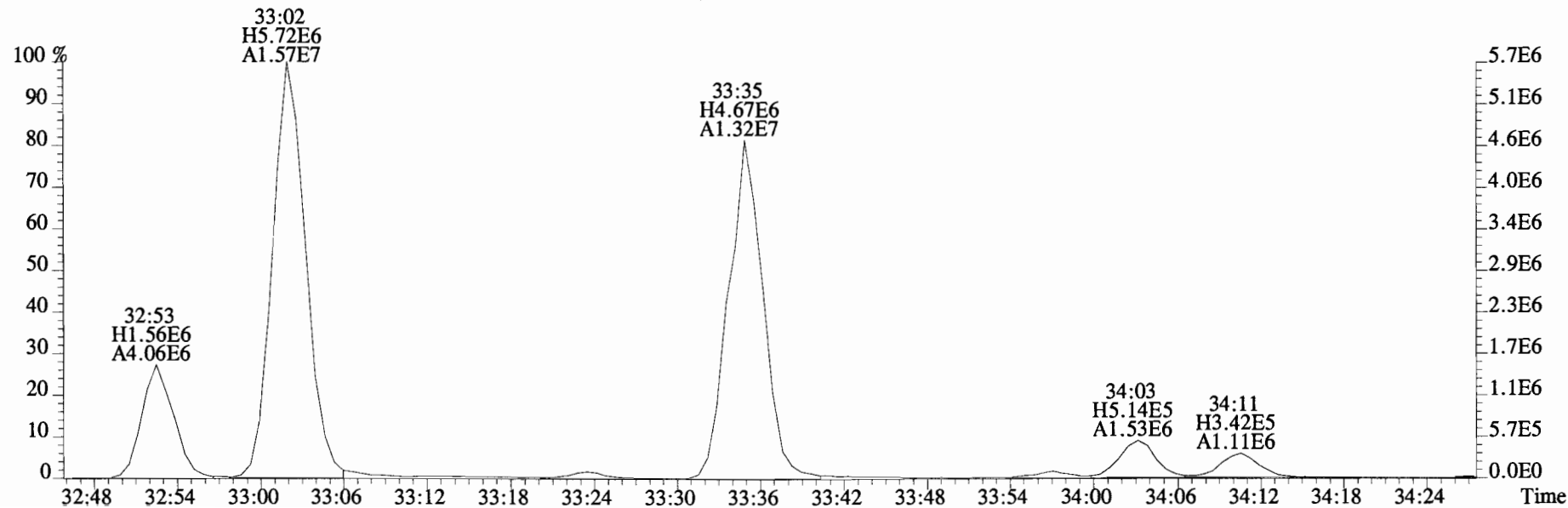
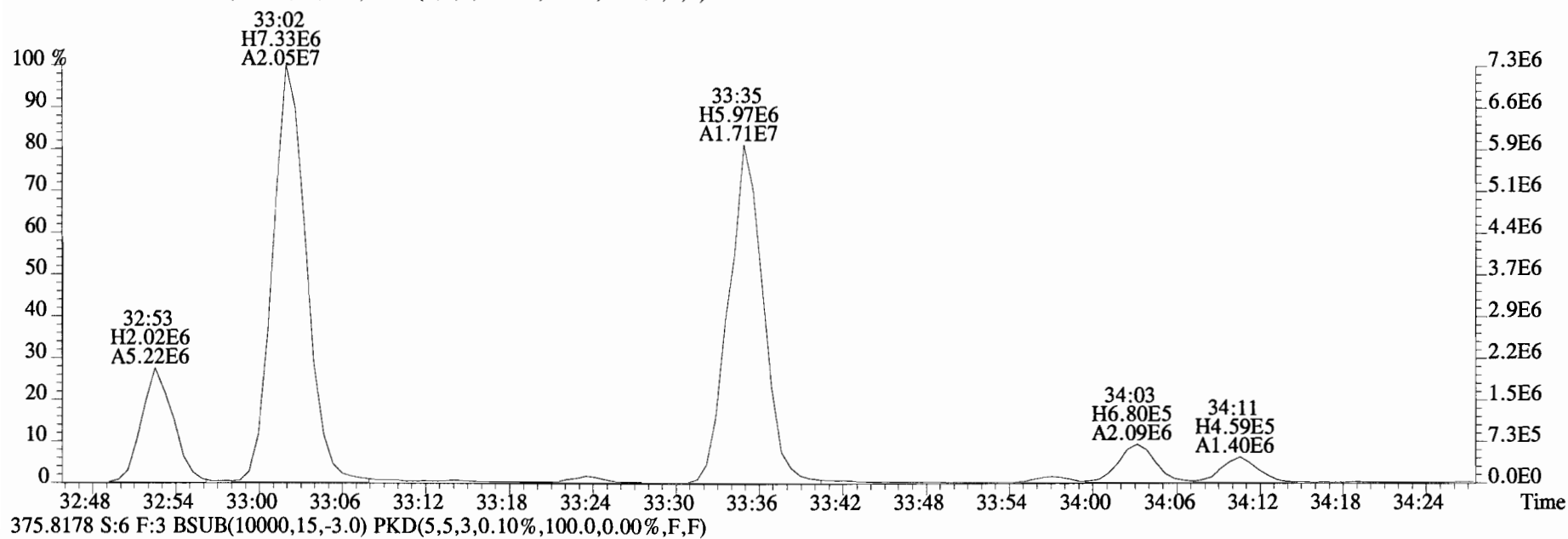
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



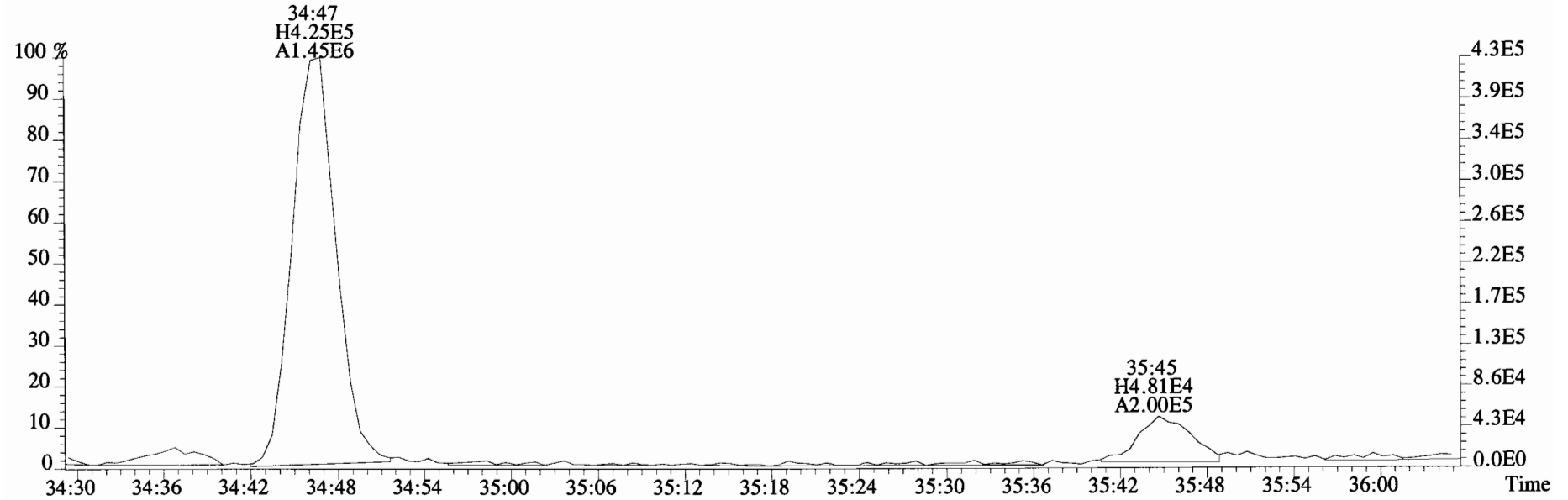
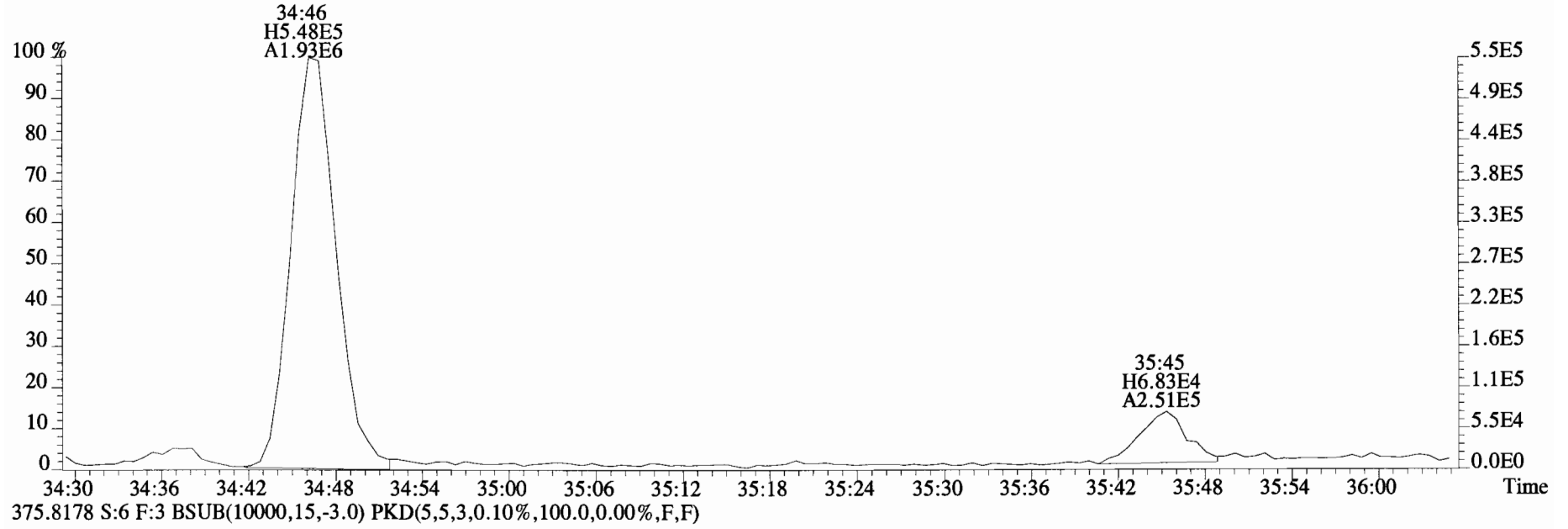
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



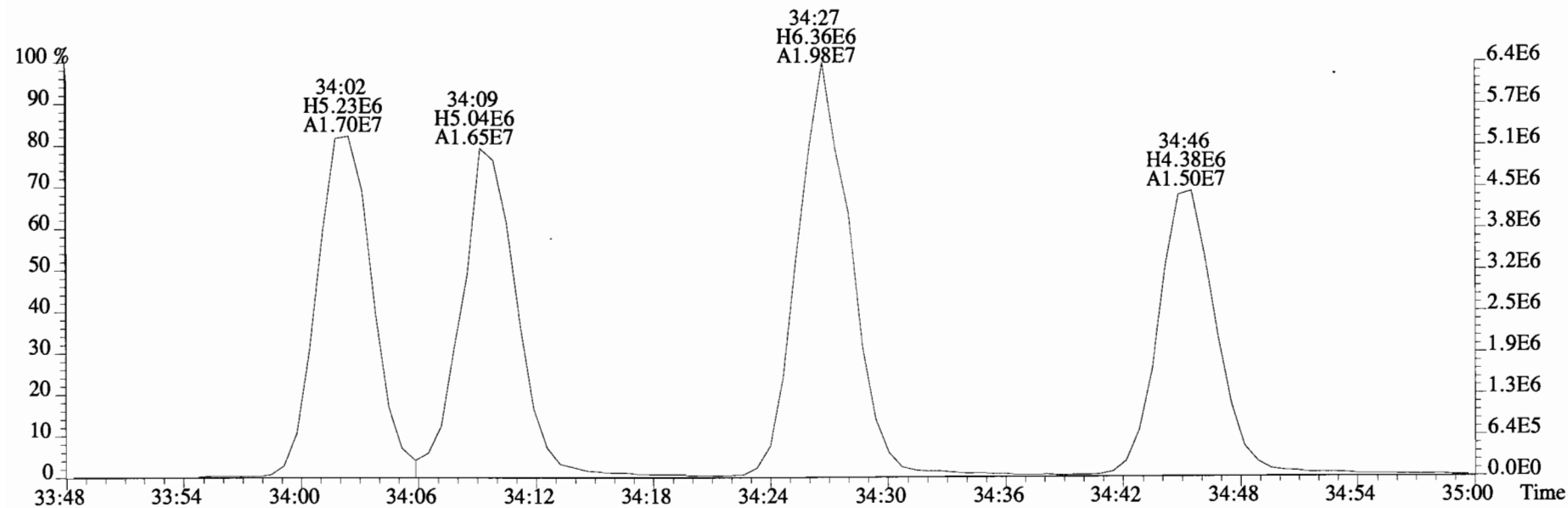
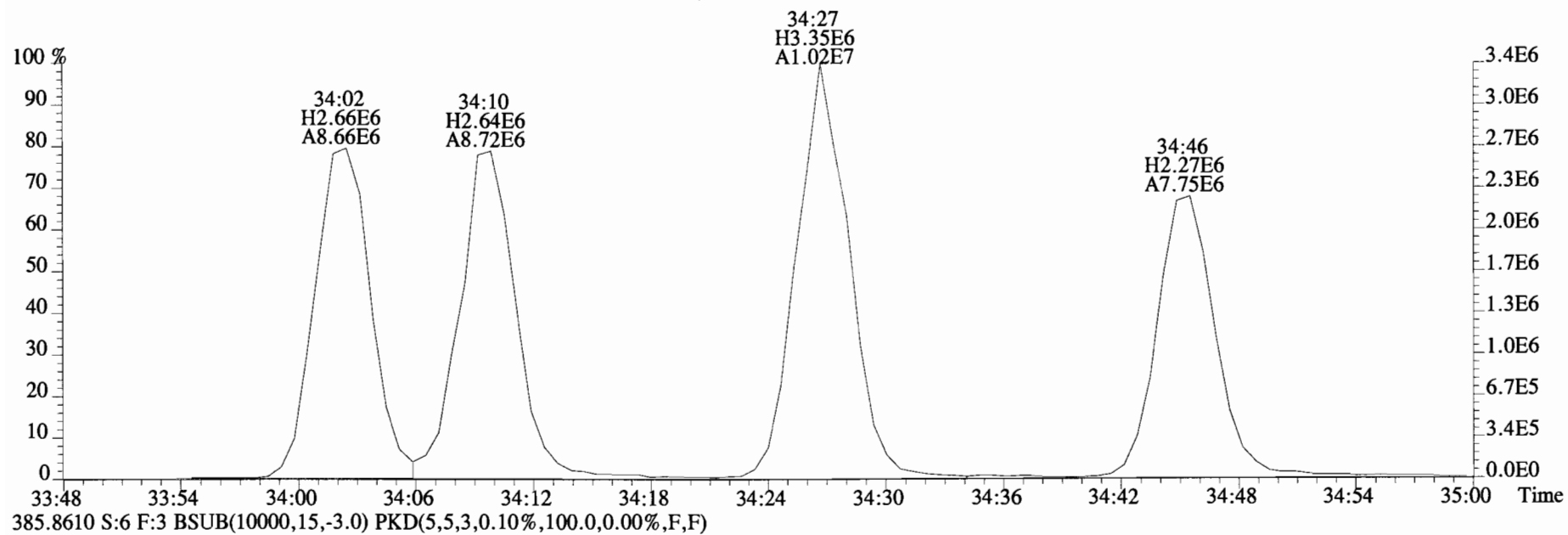
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



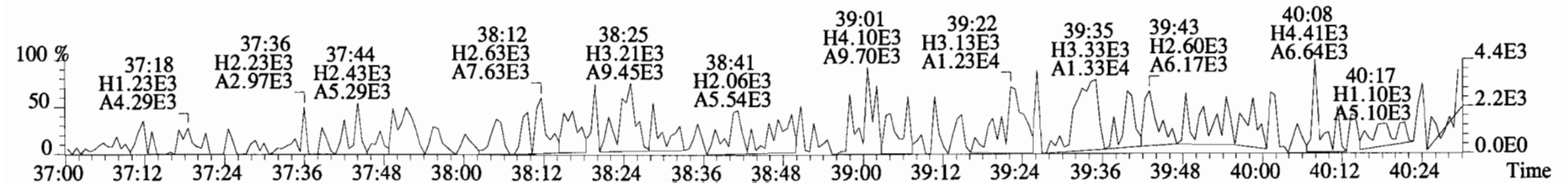
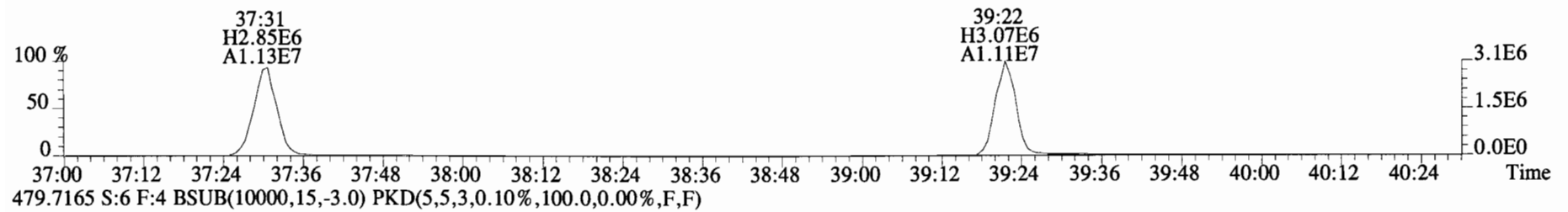
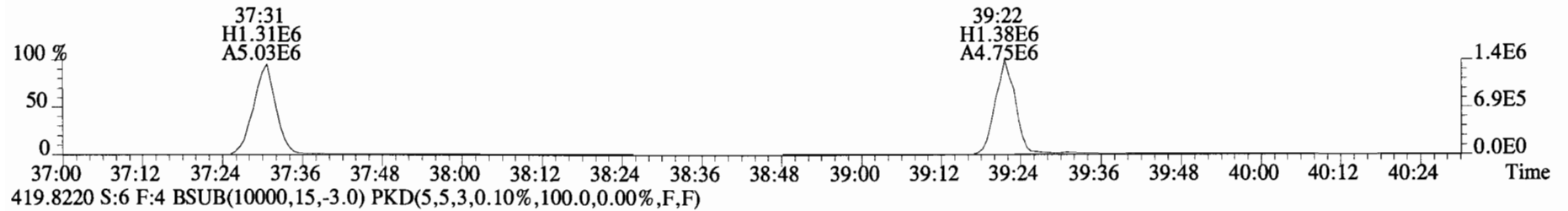
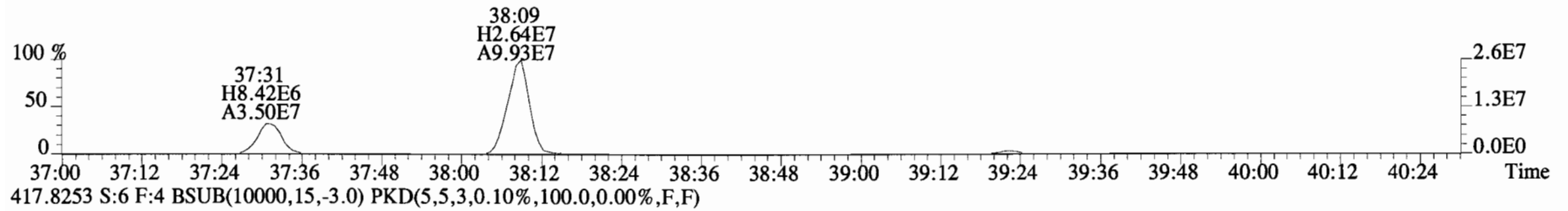
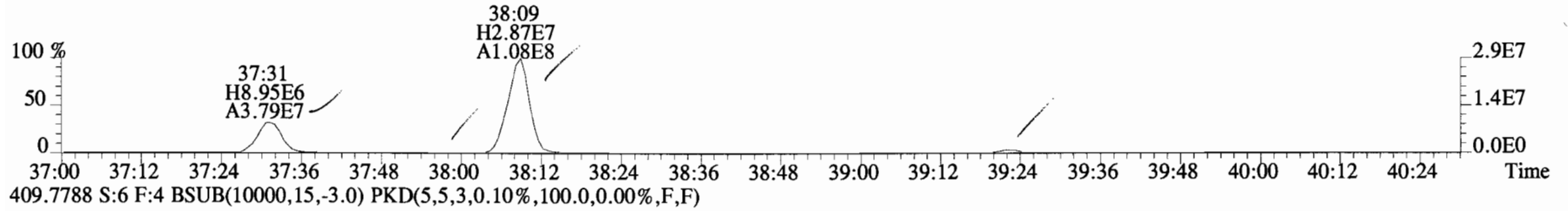
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
373.8207 S:6 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



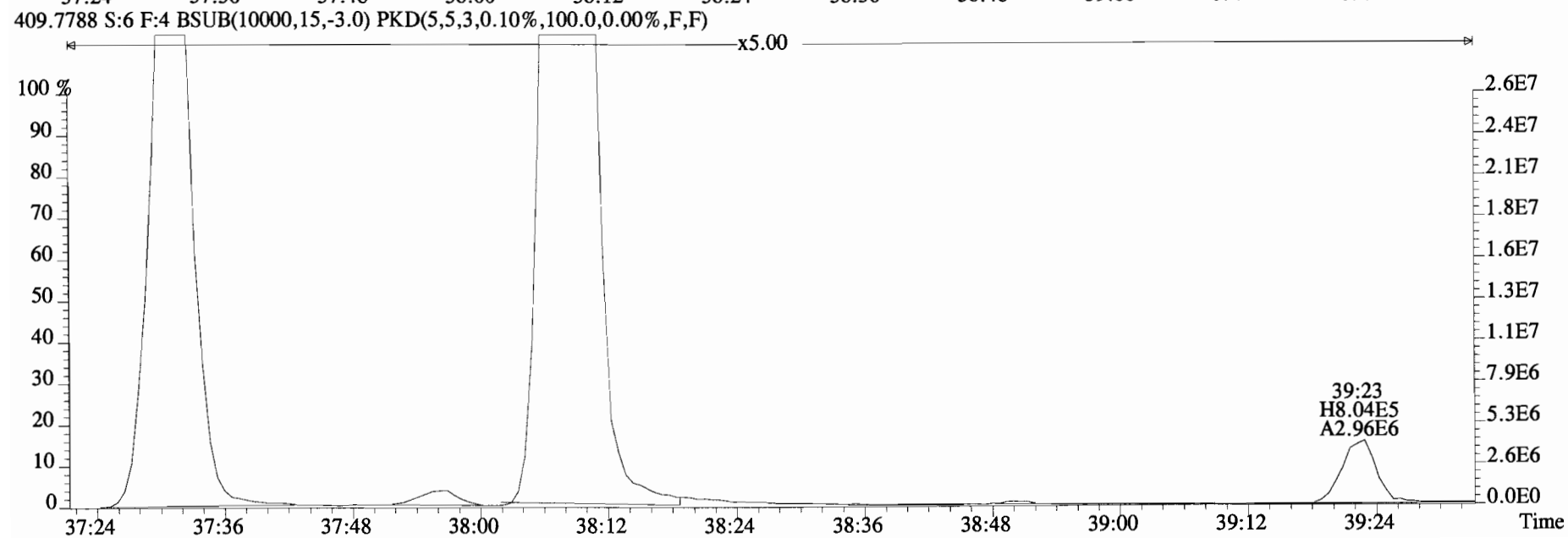
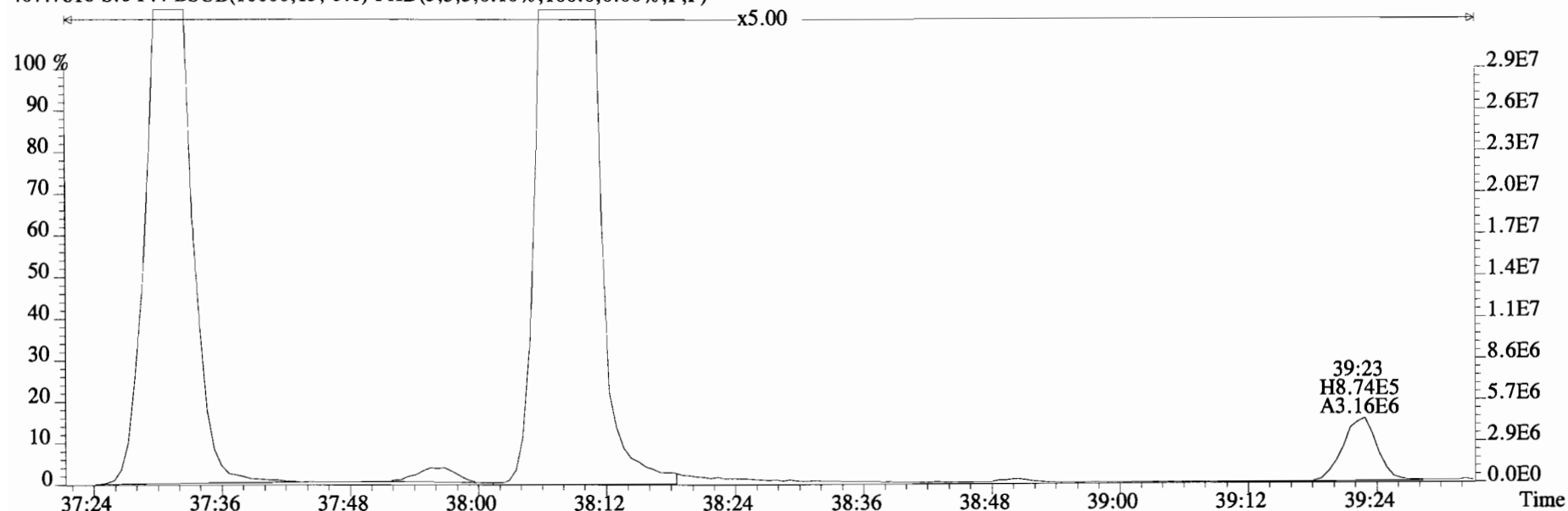
File:141226D2 #1-386 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



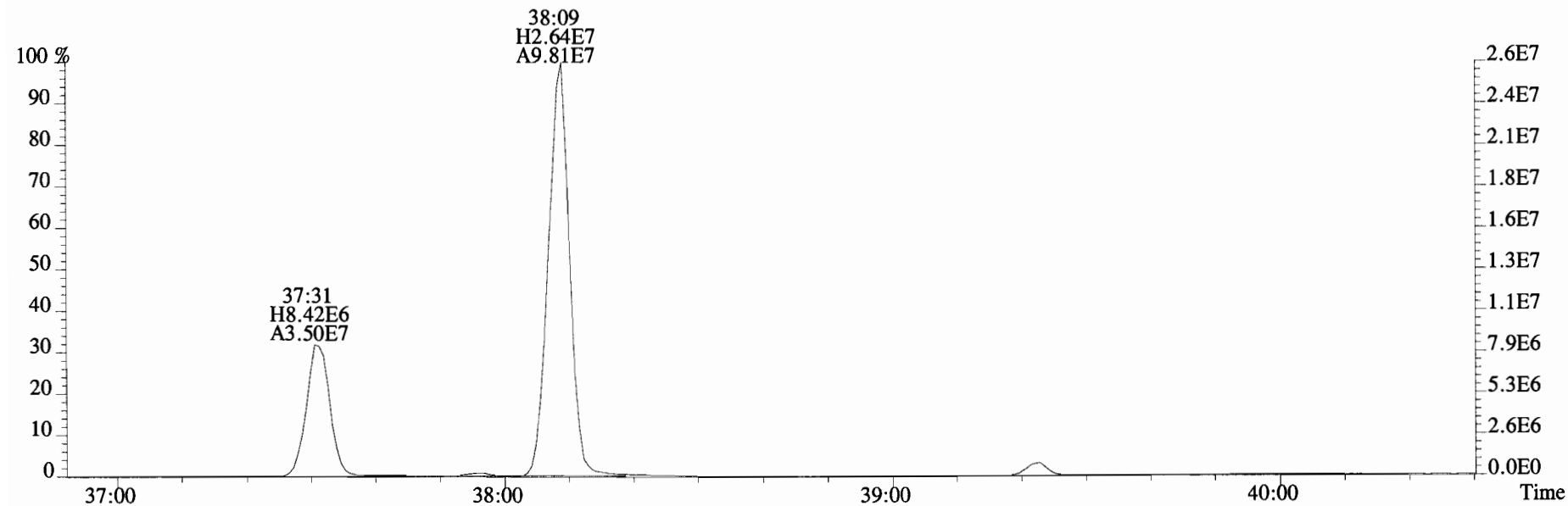
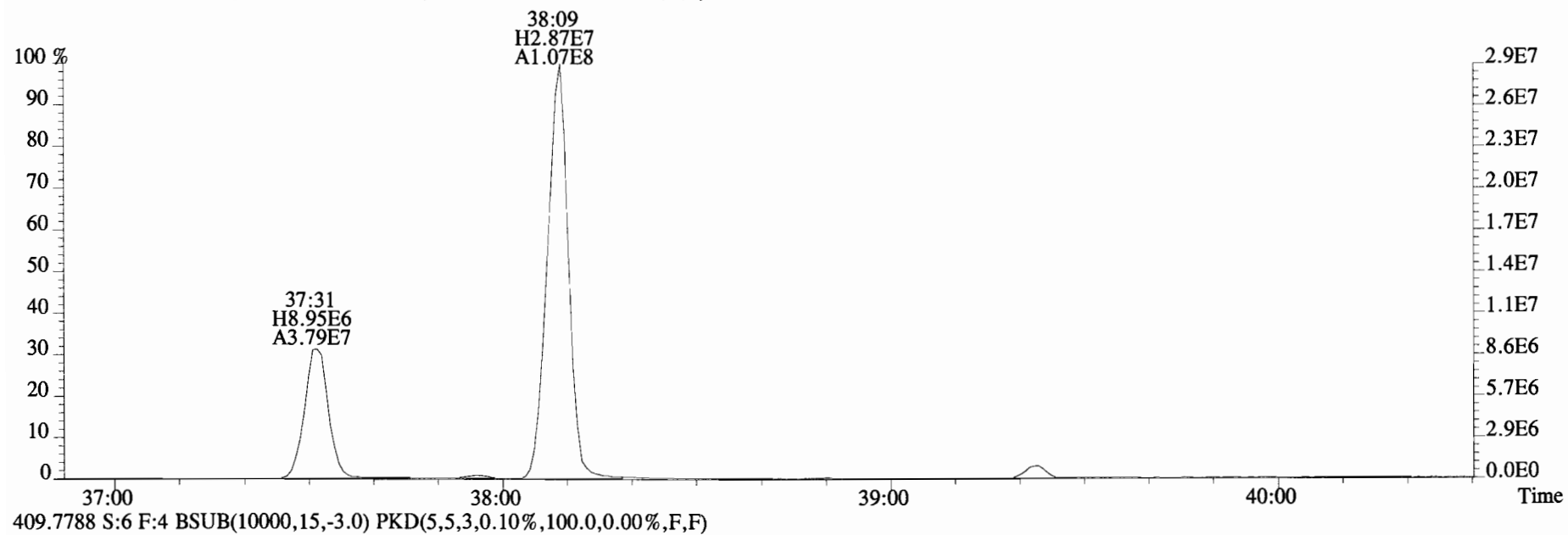
File:141226D2 #1-325 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



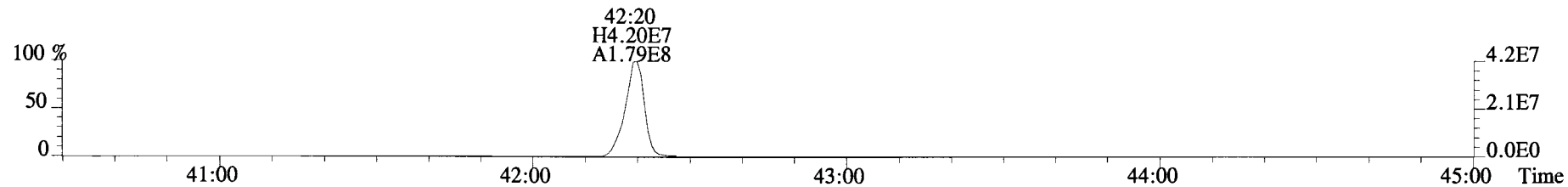
File:141226D2 #1-325 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
407.7818 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



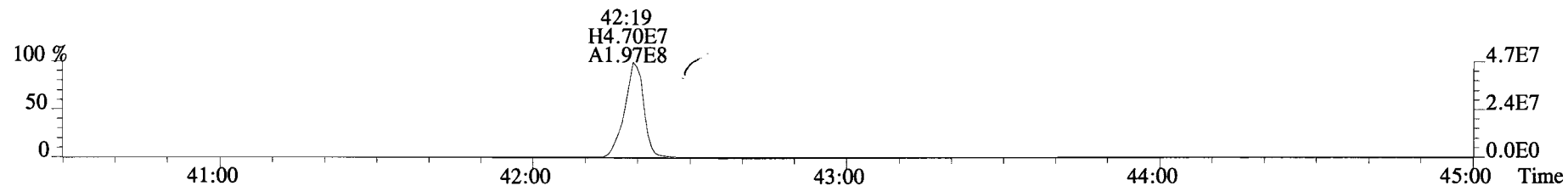
File:141226D2 #1-325 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



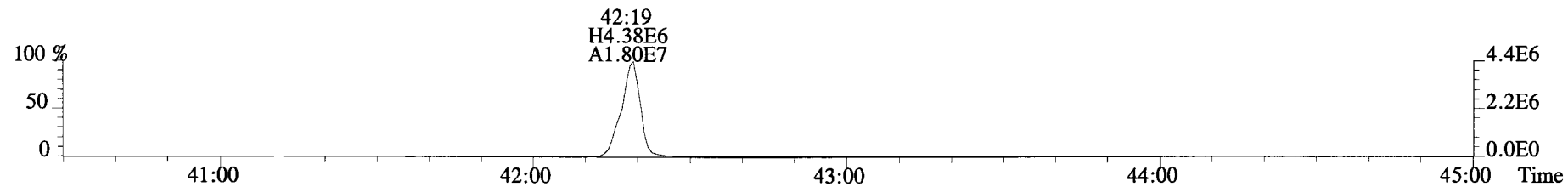
File:141226D2 #1-389 Acq:27-DEC-2014 00:27:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-02RE1 SC-CB-35-20141211-S 1.85 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



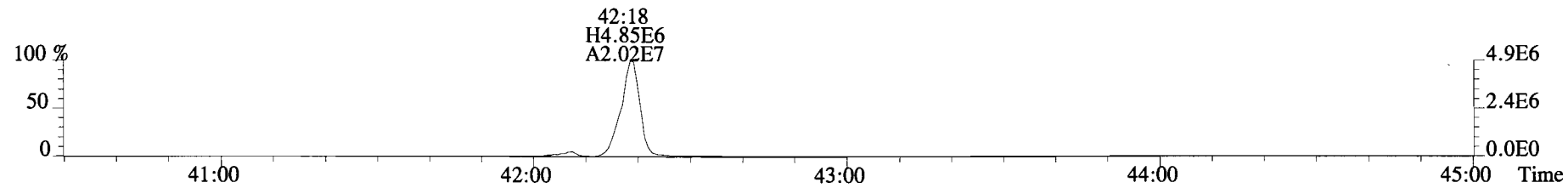
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



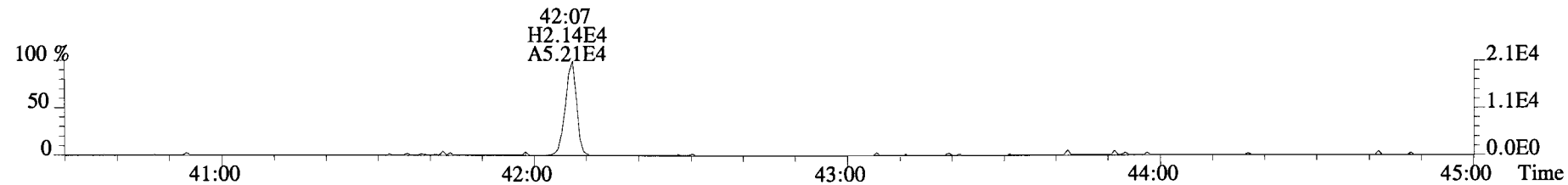
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)




513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: SC-CB-24-20141211-S Filename: 141226D2 S:7 Acq:27-DEC-14 01:16:43
 Lab ID: 1400948-03RE1 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.012 ✓

ConCal: ST141226D2-1
 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	8.81e+04	0.62 n	1.18	26:58	1.001	9.6960		*	2.5	*	Total Tetra-Dioxins	53.4	76.1	*	*	
1,2,3,7,8-PeCDD	9.24e+05	0.60 y	0.92	31:37	1.000	82.779		*	2.5	*	Total Penta-Dioxins	337	349	*	*	
1,2,3,4,7,8-HxCDD	1.56e+06	1.23 y	1.09	34:56	1.000	182.21		*	2.5	*	Total Hexa-Dioxins	3450	3450	*	*	
1,2,3,6,7,8-HxCDD	4.67e+06	1.27 y	1.07	35:02	1.000	533.37		*	2.5	*	Total Hepta-Dioxins	29400	29400	*	*	
1,2,3,7,8,9-HxCDD	3.11e+06	1.21 y	0.93	35:20	1.000	364.94		*	2.5	*	Total Tetra-Furans	252	274	*	*	
1,2,3,4,6,7,8-HpCDD	1.48e+08	1.02 y	1.12	38:50	1.000	15867		*	2.5	*	Total Penta-Furans	980.65	980.65	*	*	
OCDD	1.72e+09	0.89 y	0.95	42:05	1.000	200960		*	2.5	*	Total Hexa-Furans	4710	4710	*	*	
											Total Hepta-Furans	16700	16700	*	*	
2,3,7,8-TCDF	2.34e+05	0.82 y	1.08	26:08	1.000	18.475	12.9	*	2.5	*						
1,2,3,7,8-PeCDF	3.66e+05	1.38 y	1.09	30:25	1.001	24.119		*	2.5	*						
2,3,4,7,8-PeCDF	5.17e+05	1.69 y	1.04	31:20	1.000	33.014		*	2.5	*						
1,2,3,4,7,8-HxCDF	3.10e+06	1.35 y	1.39	34:03	1.001	176.63		*	2.5	*						
1,2,3,6,7,8-HxCDF	1.97e+06	1.30 y	1.26	34:10	1.000	124.95		*	2.5	*						
2,3,4,6,7,8-HxCDF	2.40e+06	1.27 y	1.30	34:46	1.000	167.63		*	2.5	*						
1,2,3,7,8,9-HxCDF	5.45e+05	1.11 y	1.19	35:45	1.001	48.346		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	6.05e+07	1.08 y	1.62	37:31	1.000	4534.7		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	4.77e+06	1.05 y	1.53	39:22	1.000	398.57		*	2.5	*						
OCDF	2.59e+08	0.91 y	1.10	42:19	1.000	25794		*	2.5	*						
IS	13C-2,3,7,8-TCDD	1.52e+07	0.80 y	1.07	26:57	1.023	1617.5				Rec			Qual		
IS	13C-1,2,3,7,8-PeCDD	2.40e+07	0.61 y	1.24	31:36	1.200	2219.4				81.8					
IS	13C-1,2,3,4,7,8-HxCDD	1.55e+07	1.24 y	0.72	34:55	1.014	1398.8				112					
IS	13C-1,2,3,6,7,8-HxCDD	1.62e+07	1.25 y	0.74	35:02	1.017	1441.9				70.7					
IS	13C-1,2,3,7,8,9-HxCDD	1.81e+07	1.24 y	0.86	35:19	1.025	1384.3				72.9					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.66e+07	1.03 y	0.64	38:49	1.127	1680.9				70.0					
IS	13C-OCDD	3.56e+07	0.89 y	0.78	42:05	1.222	2966.4				85.0					
IS	13C-2,3,7,8-TCDF	2.33e+07	0.78 y	0.92	26:08	0.992	1564.6				75.0					
IS	13C-1,2,3,7,8-PeCDF	2.75e+07	1.58 y	0.95	30:24	1.154	1797.5				79.1					
IS	13C-2,3,4,7,8-PeCDF	2.98e+07	1.60 y	0.97	31:19	1.189	1901.9				90.9					
IS	13C-1,2,3,4,7,8-HxCDF	2.50e+07	0.52 y	0.99	34:02	0.988	1646.4				96.2					
IS	13C-1,2,3,6,7,8-HxCDF	2.47e+07	0.52 y	1.10	34:10	0.992	1470.0				83.3					
IS	13C-2,3,4,6,7,8-HxCDF	2.18e+07	0.51 y	1.03	34:45	1.009	1382.2				74.3					
IS	13C-1,2,3,7,8,9-HxCDF	1.87e+07	0.52 y	0.86	35:43	1.037	1424.1				69.9					
IS	13C-1,2,3,4,6,7,8-HpCDF	1.63e+07	0.44 y	0.71	37:31	1.089	1493.5				72.0					
IS	13C-1,2,3,4,7,8,9-HpCDF	1.55e+07	0.43 y	0.71	39:22	1.143	1428.7				75.5					
IS	13C-OCDF	3.60e+07	0.89 y	0.87	42:18	1.228	2693.9				72.3					
C/Up	37Cl-2,3,7,8-TCDD	7.41e+06		1.21	26:58	1.024	700.10				68.1					
RS/RT	13C-1,2,3,4-TCDD	1.73e+07	0.82 y	1.00	26:20	*	1977.2									
RS	13C-1,2,3,4-TCDF	3.19e+07	0.77 y	1.00	24:49	*	1977.2									
RS/RT	13C-1,2,3,4,6,9-HxCDF	3.03e+07	0.52 y	1.00	34:27	*	1977.2									

Integrations Reviewed
 by
 Analyst:  Analyst: CT
 Date: 12/20/14 Date: 12/29/14

Totals class: TCDD EMPC

Entry #: 19

Run: 12 File: 141226D2 S: 7 I: 1 F: 1
 Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 76.092 Unnamed Concentration: 66.395

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
23:19	4.138e+04	4.882e+04	0.85	y	9.020e+04	9.9250	
23:42	2.676e+04	4.004e+04	0.67	y	6.681e+04	7.3514	
24:09	1.349e+04	1.602e+04	0.84	y	2.951e+04	3.2476	
24:58	5.069e+03	8.307e+03	0.61	n	1.165e+04	1.2821	
25:12	2.475e+04	3.217e+04	0.77	y	5.692e+04	6.2637	
25:23	3.791e+04	4.958e+04	0.76	y	8.749e+04	9.6269	
25:34	1.246e+04	1.201e+04	1.04	n	2.126e+04	2.3397	
25:49	9.766e+03	1.142e+04	0.86	y	2.118e+04	2.3308	
25:59	1.349e+04	1.936e+04	0.70	y	3.286e+04	3.6157	
26:20	2.104e+04	2.650e+04	0.79	y	4.754e+04	5.2314	
26:42	1.718e+04	2.374e+04	0.72	y	4.092e+04	4.5031	
26:49	5.040e+03	6.687e+03	0.75	y	1.173e+04	1.2904	
26:58	3.833e+04	6.225e+04	0.62	n	8.811e+04	9.6960	2,3,7,8-TCDD
27:15	2.826e+04	3.120e+04	0.91	n	5.523e+04	6.0771	
27:24	4.100e+03	8.632e+03	0.47	n	9.424e+03	1.0370	
27:52	8.989e+03	1.514e+04	0.59	n	2.066e+04	2.2736	

Totals class: PeCDD EMPC

Entry #: 21

Run: 12 File: 141226D2 S: 7 I: 1 F: 2
 Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 348.74 Unnamed Concentration: 265.958

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
29:31	2.763e+05	4.137e+05	0.67 y	6.900e+05	61.790	
29:58	9.092e+04	1.531e+05	0.59 y	2.441e+05	21.855	
30:26	9.893e+04	1.677e+05	0.59 y	2.666e+05	23.875	
30:36	2.174e+05	3.661e+05	0.59 y	5.835e+05	52.251	
30:41	9.845e+04	1.578e+05	0.62 y	2.563e+05	22.949	
30:55	1.804e+05	3.107e+05	0.58 y	4.910e+05	43.973	
31:12	3.247e+04	5.835e+04	0.56 y	9.083e+04	8.1335	
31:37	3.460e+05	5.784e+05	0.60 y	9.244e+05	82.779	1,2,3,7,8-PeCDD
31:42	6.138e+04	7.949e+04	0.77 n	1.296e+05	11.602	
31:59	8.096e+04	1.371e+05	0.59 y	2.181e+05	19.529	

Totals class: HxCDD EMPC

Entry #: 23

Run: 12 File: 141226D2 S: 7 I: 1 F: 3
 Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 3452.0 Unnamed Concentration: 2371.513

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Resp Concentration	Name
33:24	3.692e+06	2.967e+06	1.24 y	6.659e+06	773.98	
33:58	6.901e+05	5.518e+05	1.25 y	1.242e+06	144.33	
34:13	6.407e+06	5.101e+06	1.26 y	1.151e+07	1337.5	
34:21	3.159e+05	2.652e+05	1.19 y	5.812e+05	67.544	
34:56	8.562e+05	6.989e+05	1.23 y	1.555e+06	182.21	1,2,3,4,7,8-HxCDD
35:02	2.618e+06	2.057e+06	1.27 y	4.675e+06	533.37	1,2,3,6,7,8-HxCDD
35:13	2.178e+05	1.966e+05	1.11 y	4.144e+05	48.167	
35:20	1.703e+06	1.412e+06	1.21 y	3.115e+06	364.94	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 12 File: 141226D2 S: 7 I: 1 F: 4
Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 29429

Unnamed Concentration: 13562.134

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
37:55	6.412e+07	6.265e+07	1.02 y	1.268e+08	13562
38:50	7.498e+07	7.334e+07	1.02 y	1.483e+08	15867 1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 12 File: 141226D2 S: 7 I: 1 F: 1
 Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 273.73

Unnamed Concentration: 255.253

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
21:05	2.216e+04	2.323e+04	0.95	n	4.112e+04	3.2417
21:40	3.546e+04	4.410e+04	0.80	y	7.956e+04	6.2720
22:18	2.951e+05	3.592e+05	0.82	y	6.543e+05	51.584
22:51	8.953e+04	1.081e+05	0.83	y	1.977e+05	15.584
23:17	1.265e+05	1.563e+05	0.81	y	2.828e+05	22.299
23:44	1.586e+05	2.106e+05	0.75	y	3.692e+05	29.105
23:53	5.064e+04	5.514e+04	0.92	n	9.760e+04	7.6948
24:03	4.371e+04	5.039e+04	0.87	y	9.410e+04	7.4184
24:35	2.584e+04	3.432e+04	0.75	y	6.016e+04	4.7424
24:44	1.508e+05	2.141e+05	0.70	y	3.649e+05	28.769
24:51	1.239e+05	1.590e+05	0.78	y	2.828e+05	22.298
25:17	7.495e+04	9.534e+04	0.79	y	1.703e+05	13.425
25:34	2.712e+04	3.149e+04	0.86	y	5.861e+04	4.6204
25:44	1.641e+04	2.212e+04	0.74	y	3.853e+04	3.0374
25:56	2.114e+04	1.934e+04	1.09	n	3.422e+04	2.6981
26:02	1.782e+04	2.456e+04	0.73	y	4.238e+04	3.3413
26:08	1.053e+05	1.290e+05	0.82	y	2.344e+05	18.475
26:30	1.100e+05	1.476e+05	0.75	y	2.576e+05	20.308
27:32	7.008e+03	8.313e+03	0.84	y	1.532e+04	1.2078
27:42	7.138e+03	1.241e+04	0.58	n	1.641e+04	1.2936
27:59	4.048e+04	4.524e+04	0.89	n	8.008e+04	6.3132

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 12 File: 141226D2 S: 7 I: 1 F: 1
Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 490.45 Unnamed Concentration: 490.446

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
27:58	4.578e+06	2.987e+06	1.53 y	7.565e+06	490.45

Totals class: PeCDF EMPC

Entry #: 31

Run: 12 File: 141226D2 S: 7 I: 1 F: 2
 Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 490.20 Unnamed Concentration: 433.072

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:20	2.247e+05	1.475e+05	1.52	y	3.722e+05	24.128
29:28	2.303e+06	1.432e+06	1.61	y	3.735e+06	242.13
30:02	7.520e+05	4.542e+05	1.66	y	1.206e+06	78.197
30:14	1.198e+05	7.437e+04	1.61	y	1.942e+05	12.589
30:25	2.118e+05	1.538e+05	1.38	y	3.656e+05	24.119
30:39	3.351e+05	2.067e+05	1.62	y	5.418e+05	35.121
31:14	5.633e+04	3.959e+04	1.42	y	9.592e+04	6.2182
31:20	3.252e+05	1.922e+05	1.69	y	5.175e+05	33.014
31:23	2.586e+05	1.866e+05	1.39	y	4.452e+05	28.861
32:14	5.479e+04	3.514e+04	1.56	y	8.993e+04	5.8300

Totals class: HxCDF EMPC

Entry #: 33

Run: 12 File: 141226D2 S: 7 I: 1 F: 3
 Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 4711.9

Unnamed Concentration: 4194.314

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
32:52	4.256e+06	3.239e+06	1.31 y	7.495e+06	510.09
33:02	1.499e+07	1.161e+07	1.29 y	2.659e+07	1809.8
33:23	2.644e+05	2.175e+05	1.22 y	4.819e+05	32.799
33:34	1.508e+07	1.149e+07	1.31 y	2.657e+07	1808.3
33:57	2.772e+05	2.120e+05	1.31 y	4.892e+05	33.293
34:03	1.779e+06	1.322e+06	1.35 y	3.100e+06	176.63 1,2,3,4,7,8-HxCDF
34:10	1.113e+06	8.581e+05	1.30 y	1.971e+06	124.95 1,2,3,6,7,8-HxCDF
34:46	1.346e+06	1.058e+06	1.27 y	2.404e+06	167.63 2,3,4,6,7,8-HxCDF
35:45	2.864e+05	2.586e+05	1.11 y	5.450e+05	48.346 1,2,3,7,8,9-HxCDF

Totals class: HpCDF EMPC

Entry #: 35

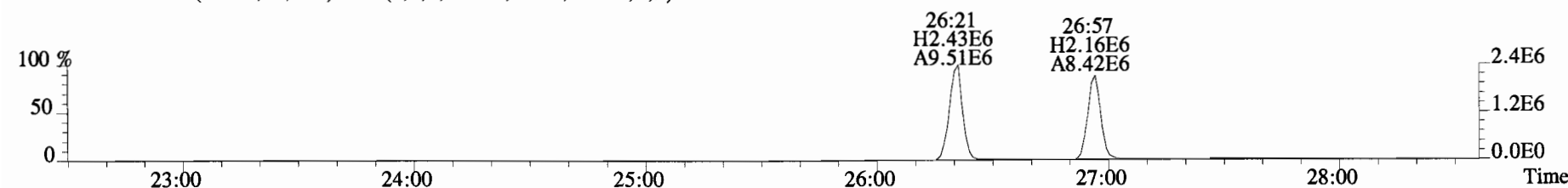
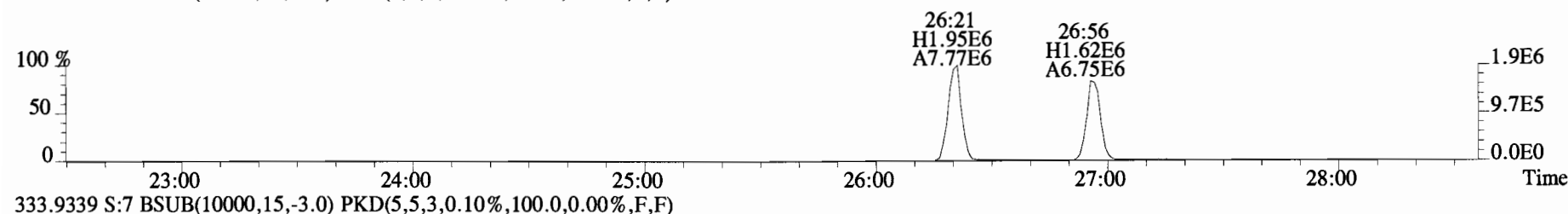
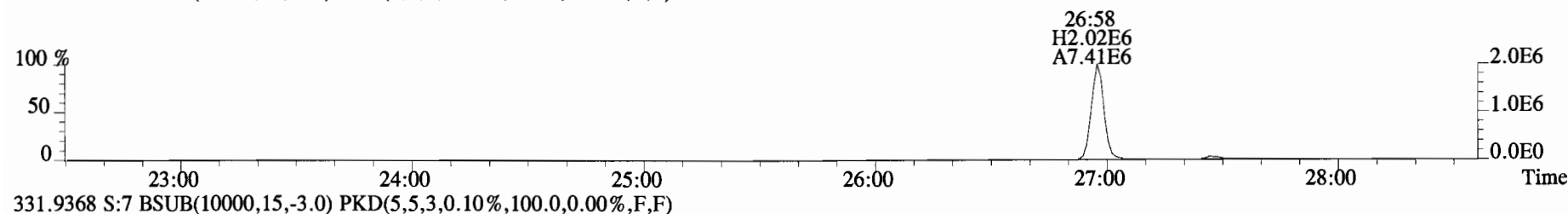
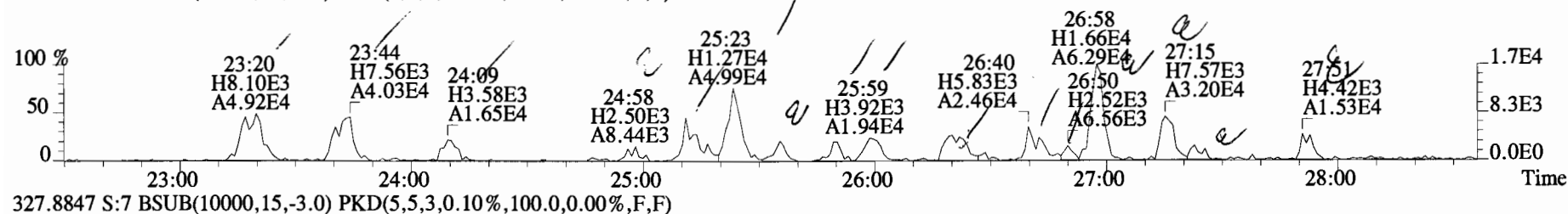
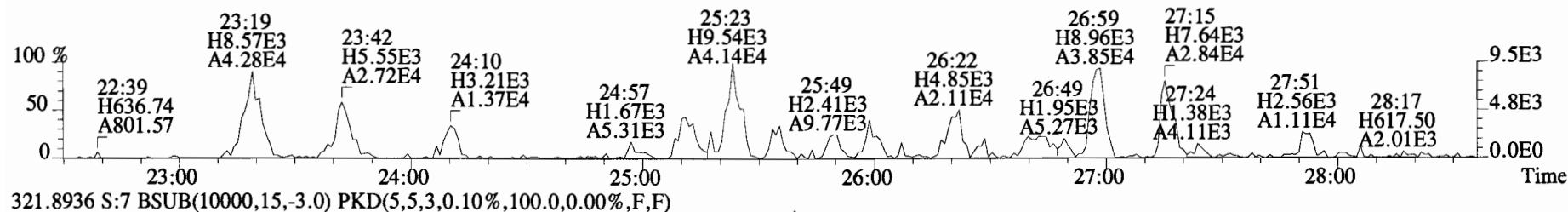
Run: 12 File: 141226D2 S: 7 I: 1 F: 4
Acquired: 27-DEC-14 01:16:43 Processed: 27-DEC-14 13:28:13

Total Concentration: 16735

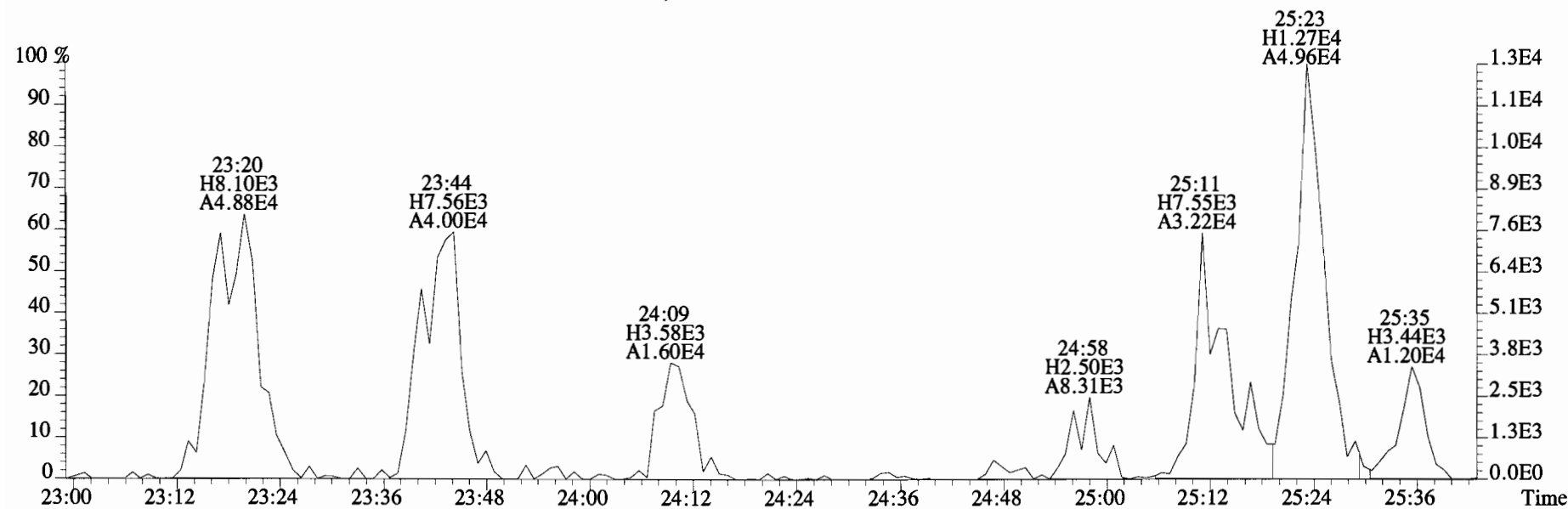
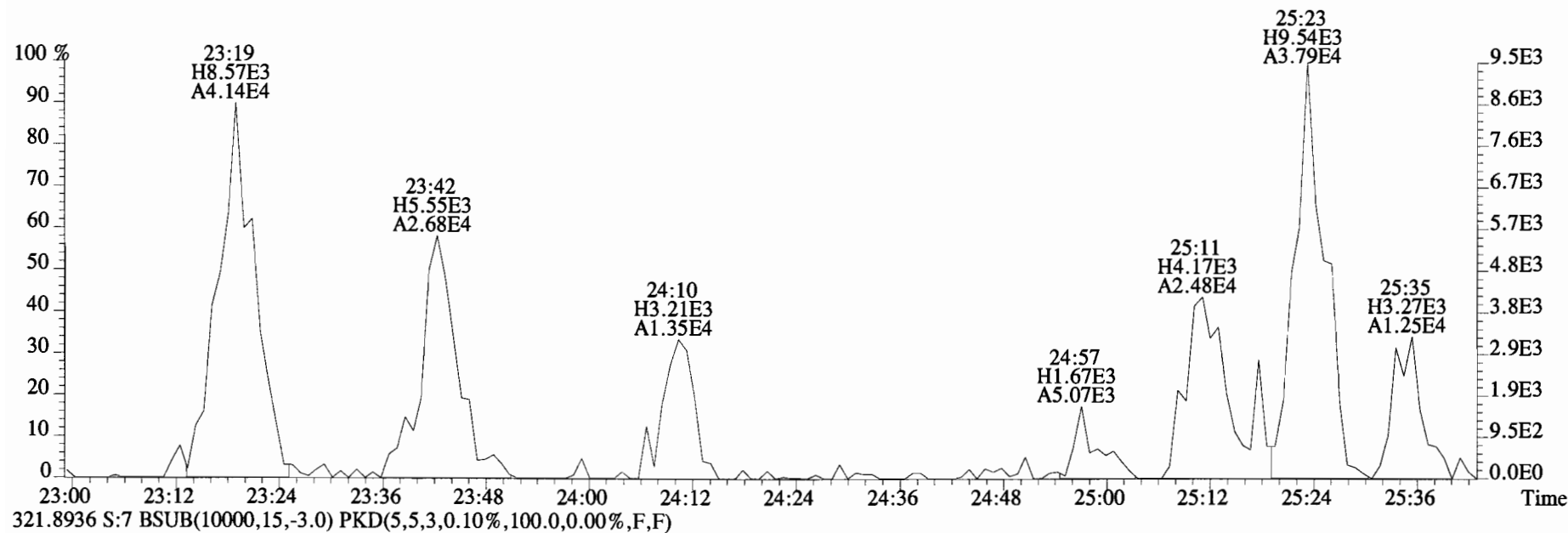
Unnamed Concentration: 11802.100

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
37:31	3.140e+07	2.908e+07	1.08	y	6.048e+07	4534.7	1,2,3,4,6,7,8-HpCDF
37:56	6.065e+05	5.136e+05	1.18	y	1.120e+06	88.641	
38:08	7.688e+07	7.114e+07	1.08	y	1.480e+08	11713	
39:22	2.443e+06	2.322e+06	1.05	y	4.765e+06	398.57	1,2,3,4,7,8,9-HpCDF

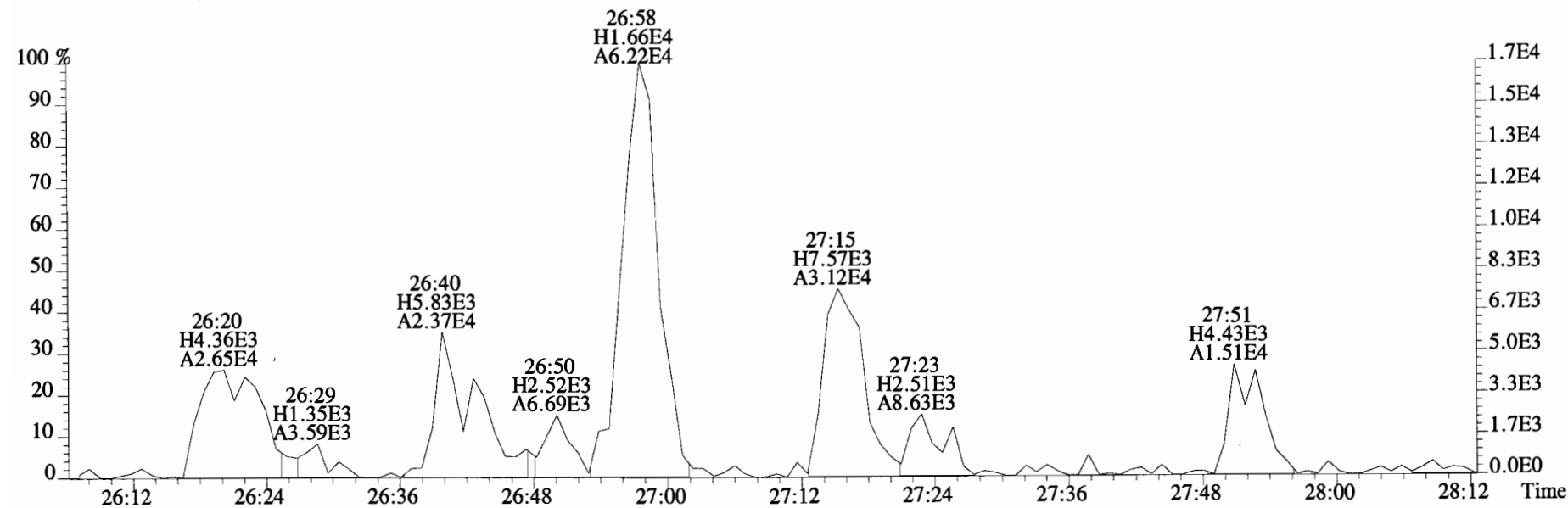
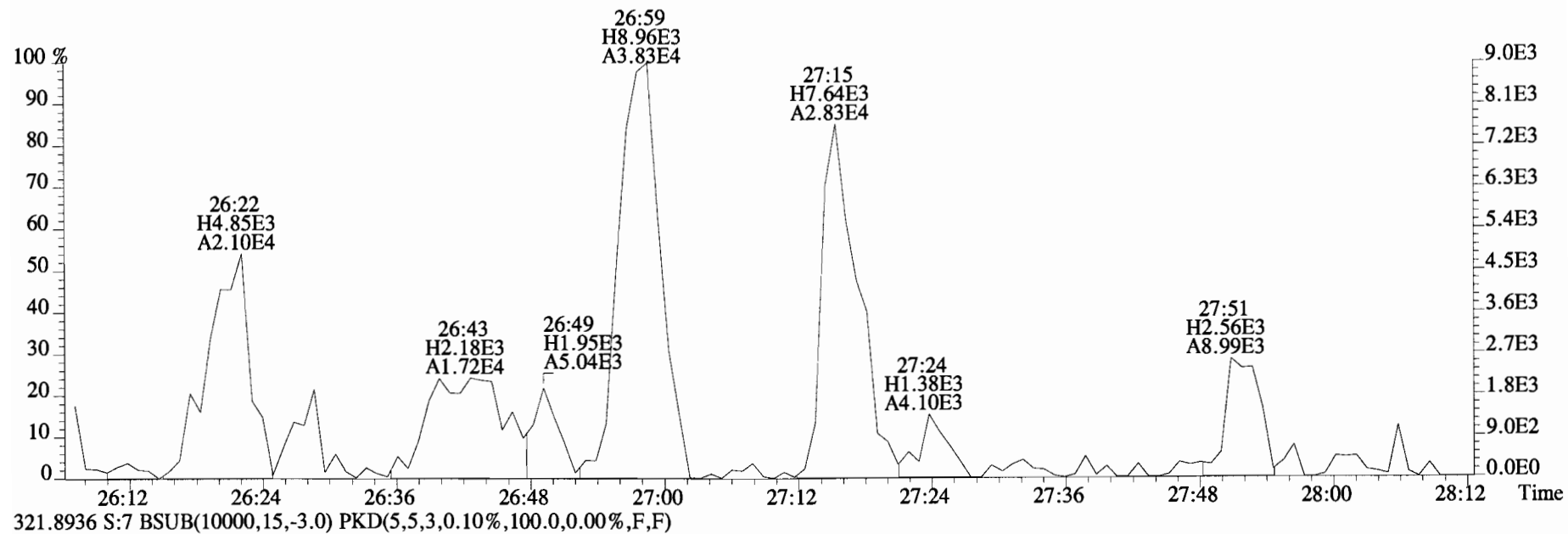
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



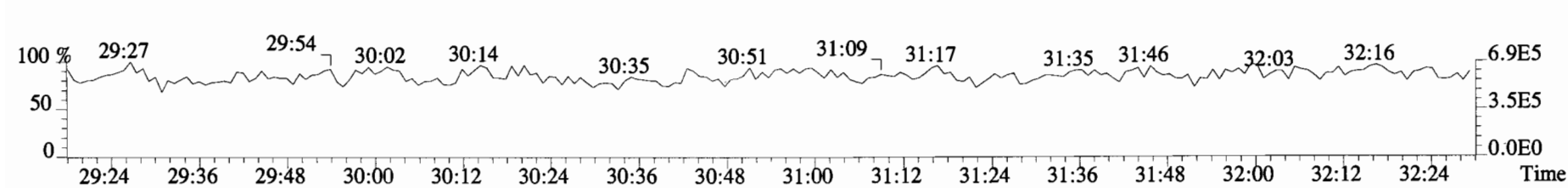
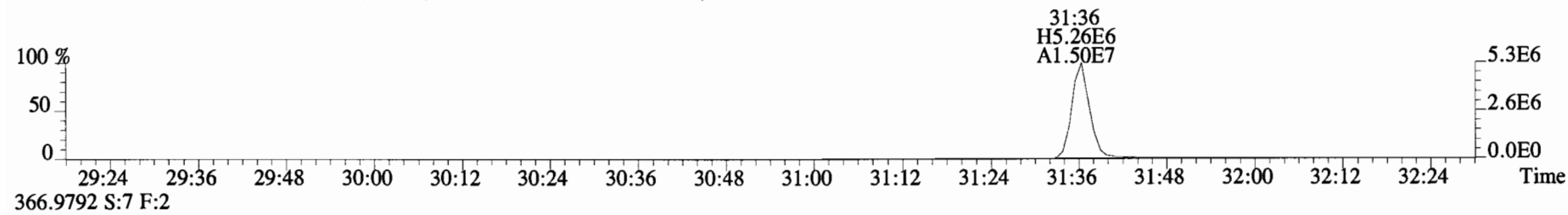
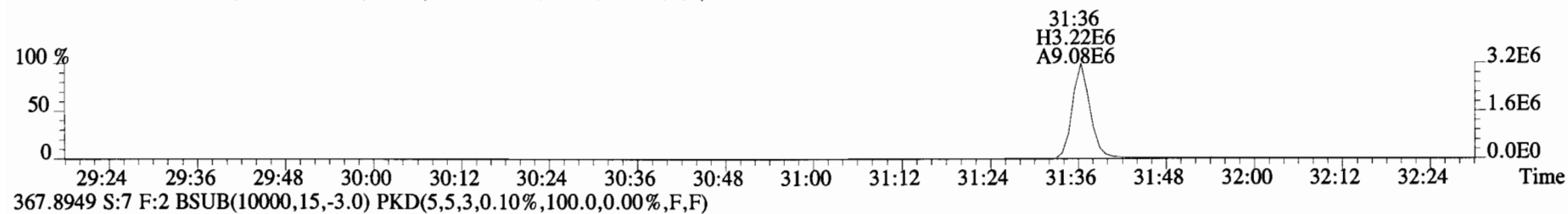
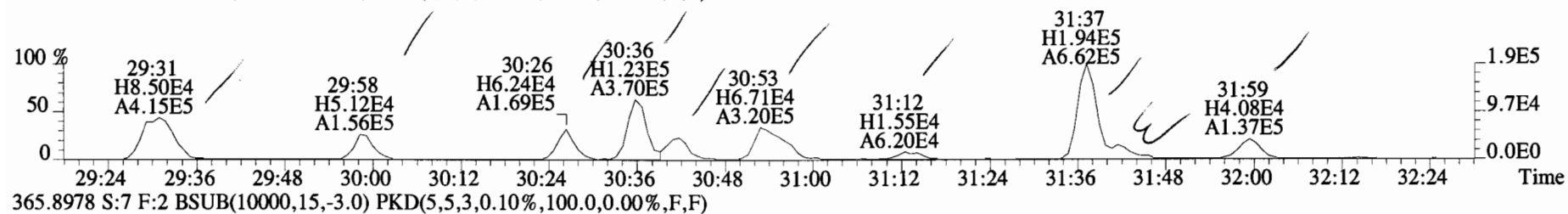
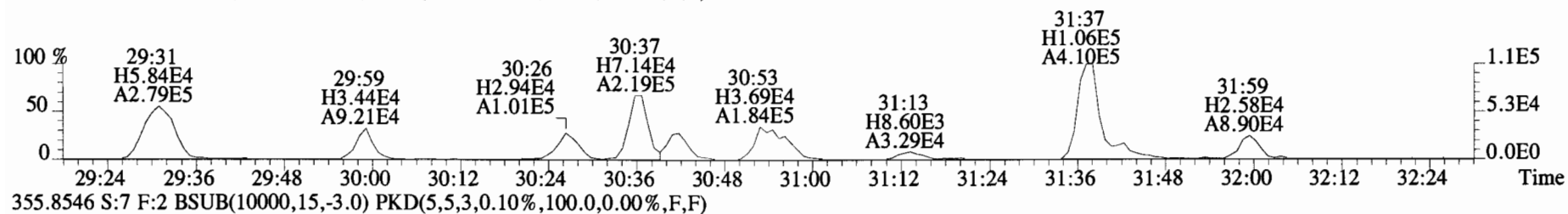
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



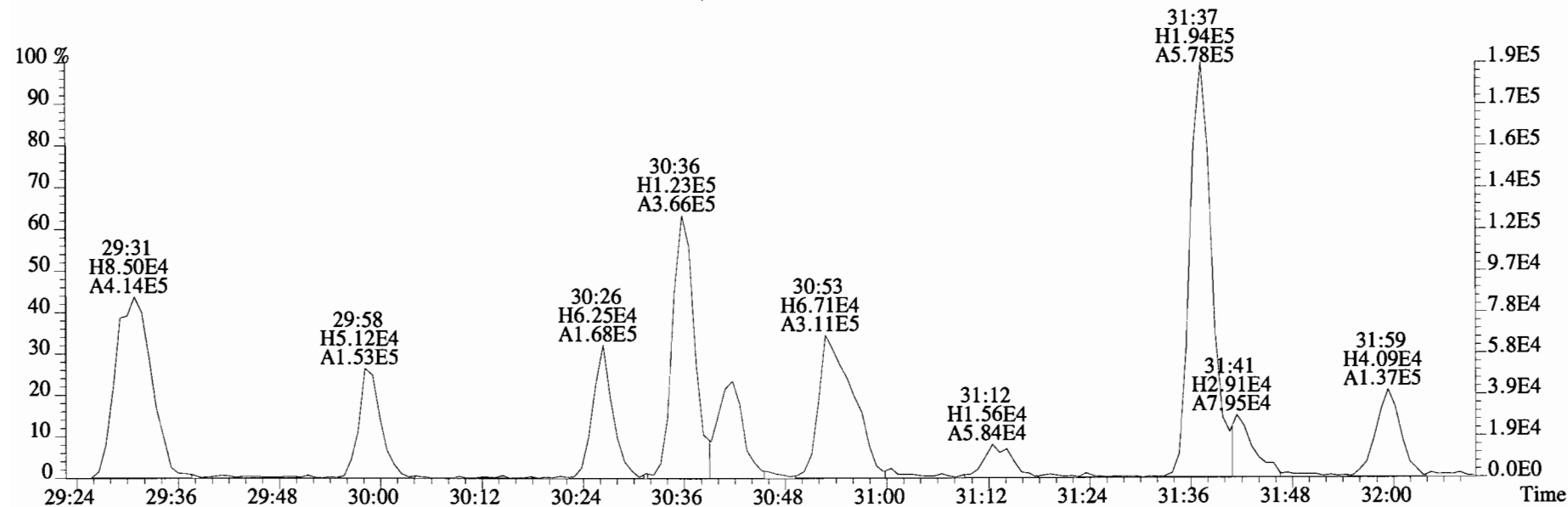
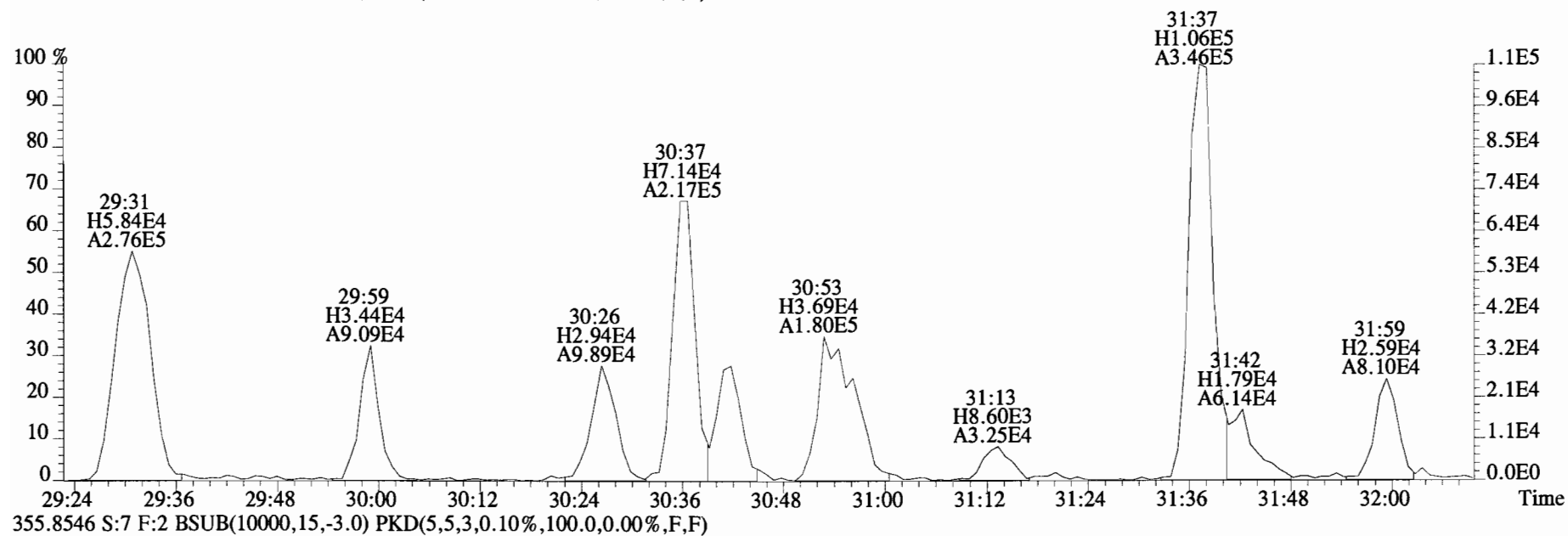
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



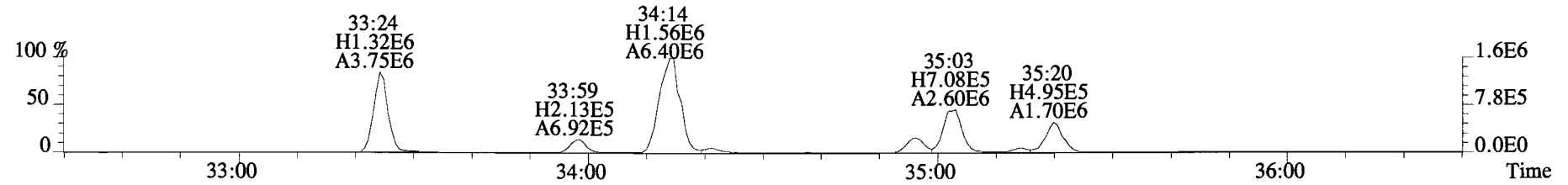
File:141226D2 #1-256 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



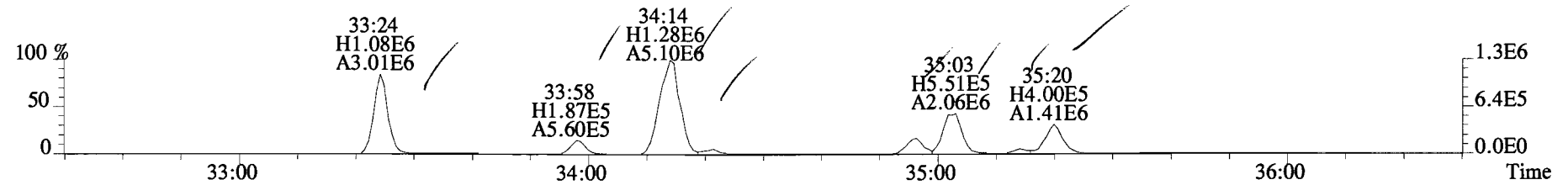
File:141226D2 #1-256 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



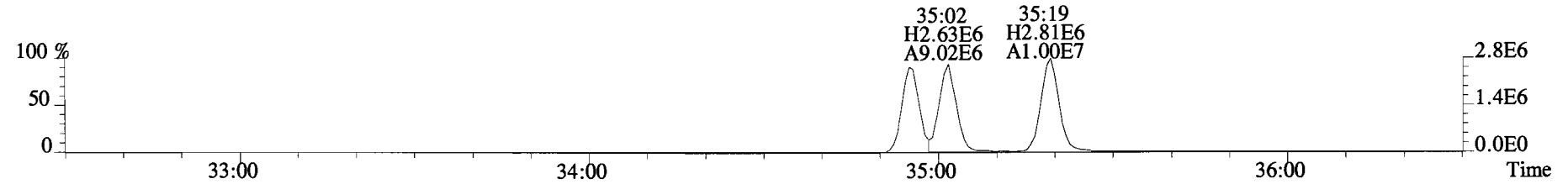
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



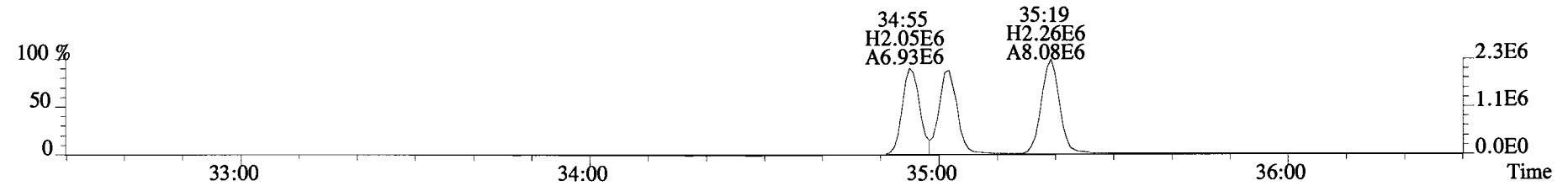
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



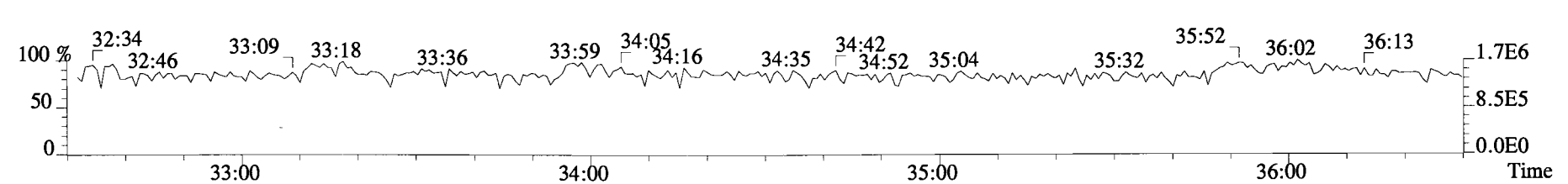
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



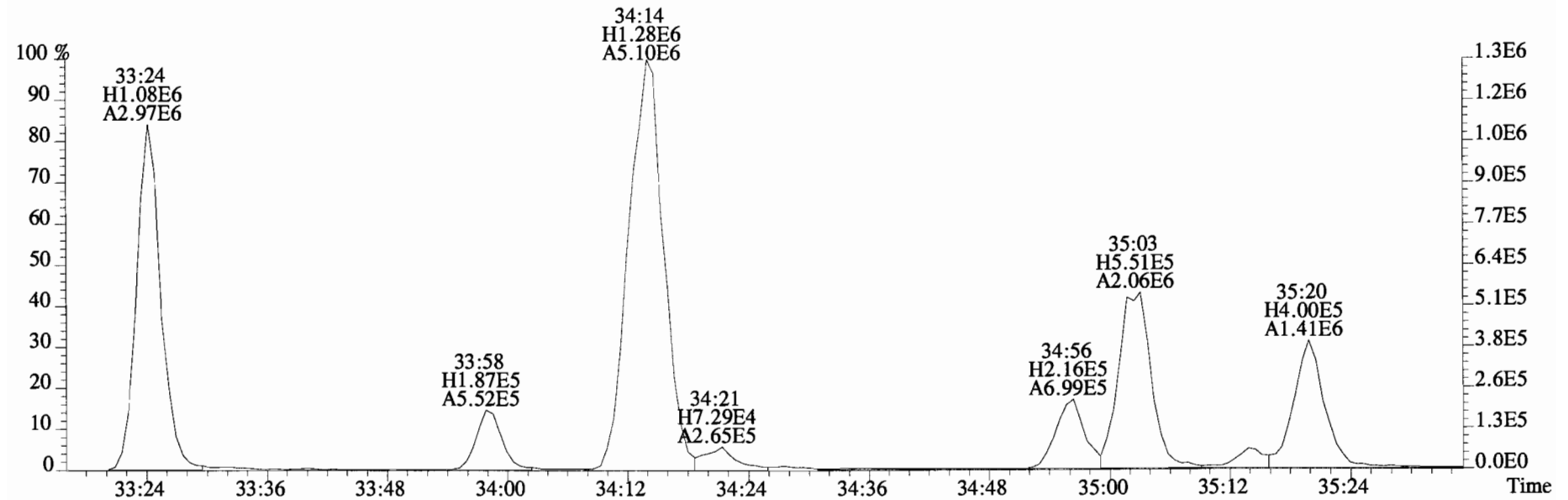
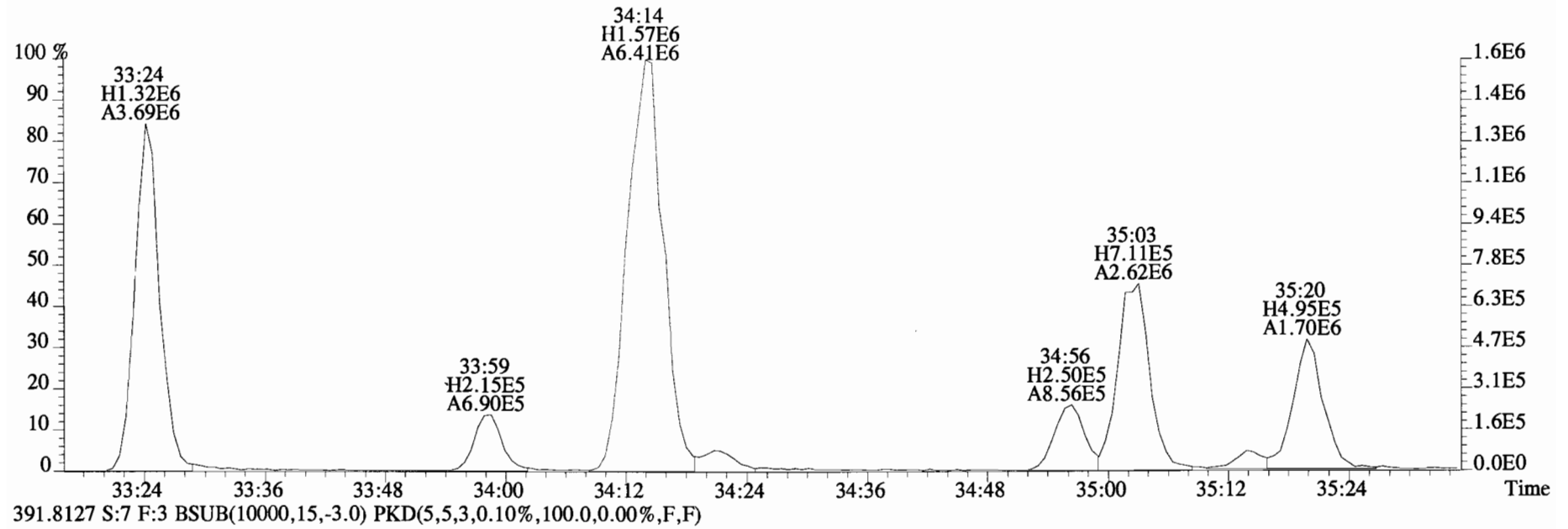
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



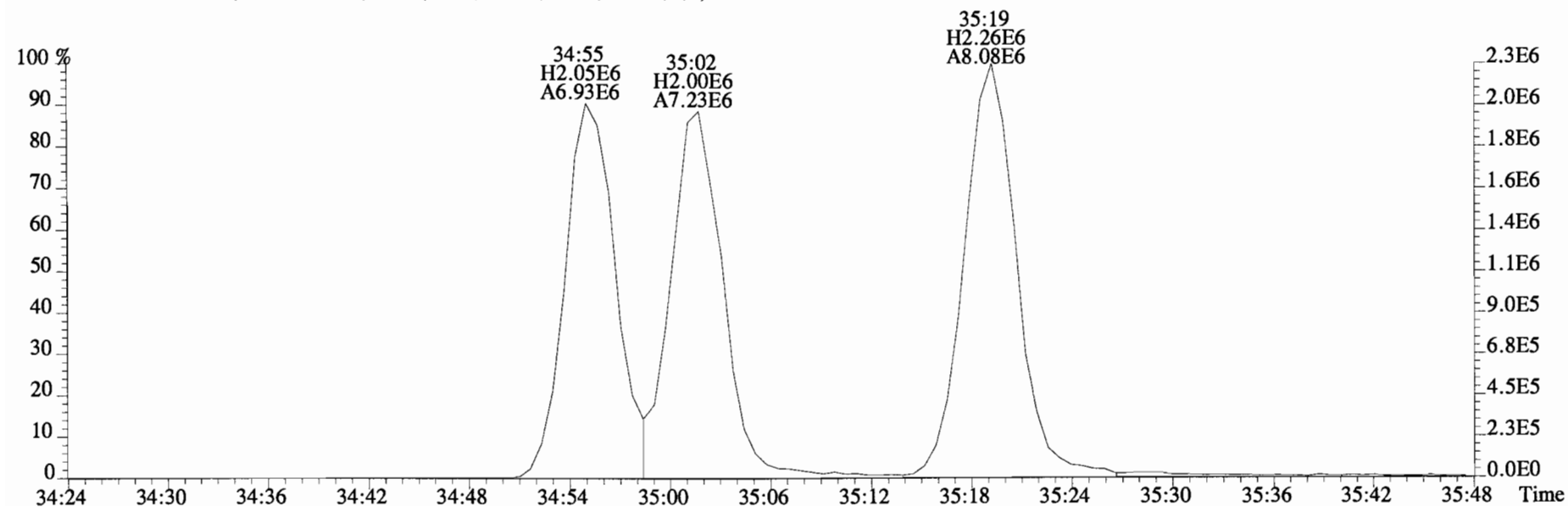
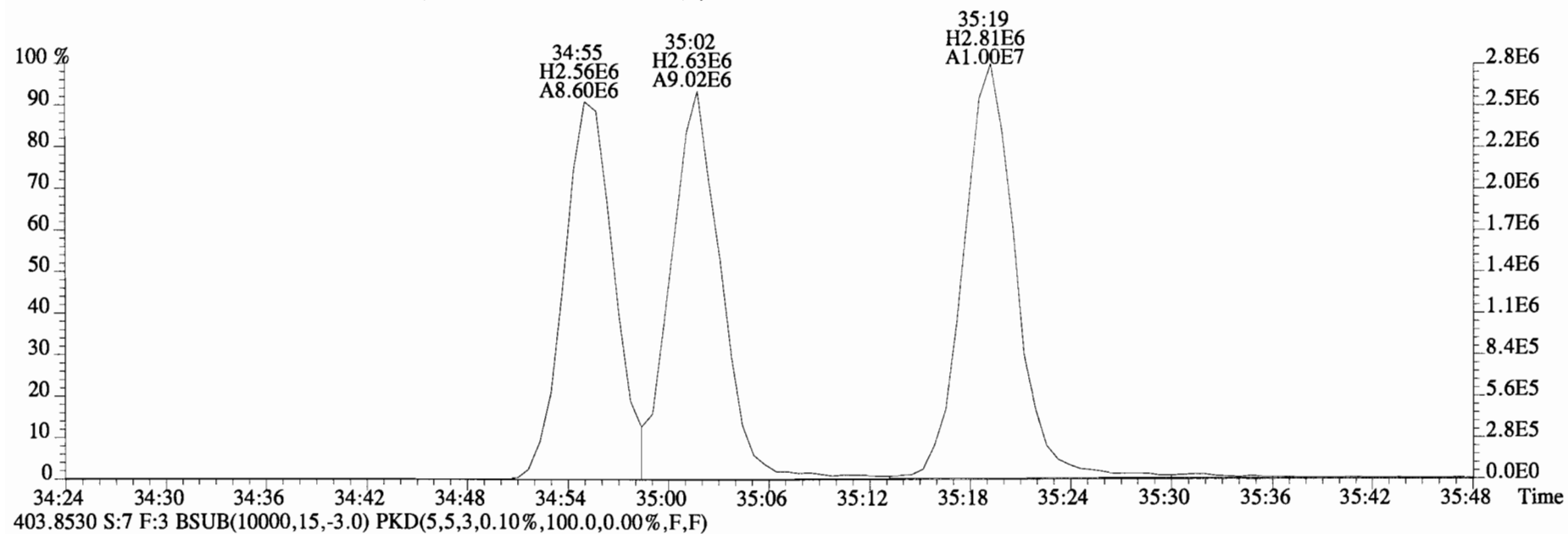
380.9760 S:7 F:3



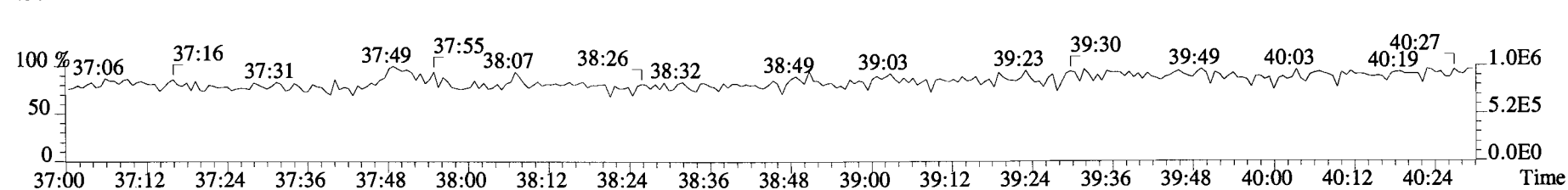
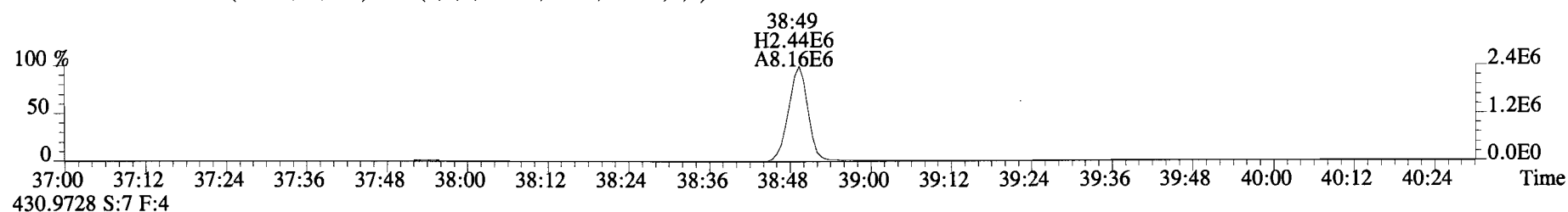
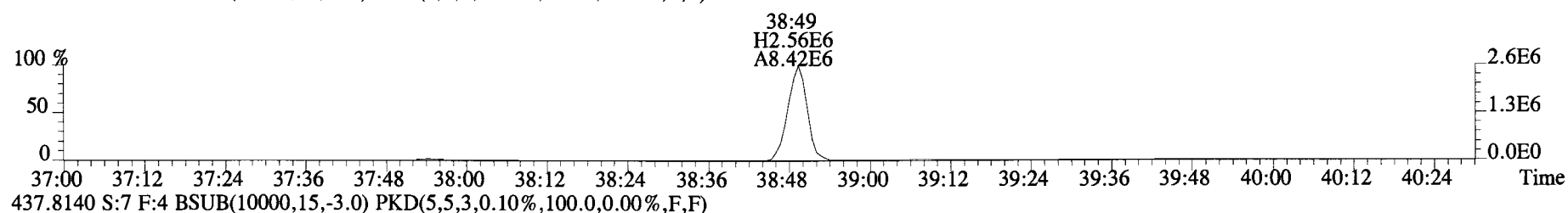
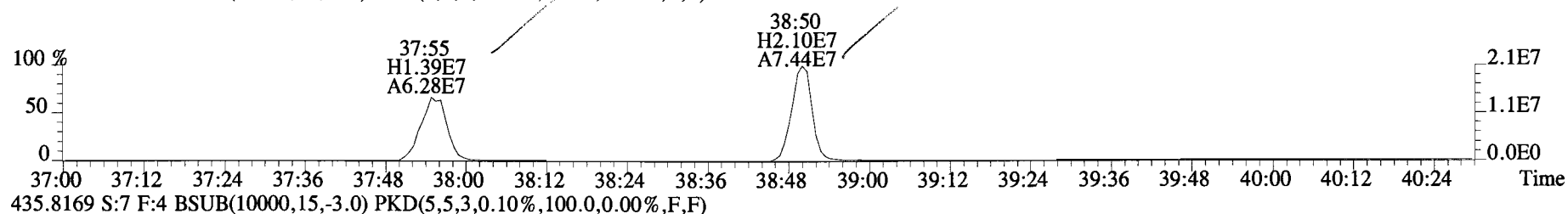
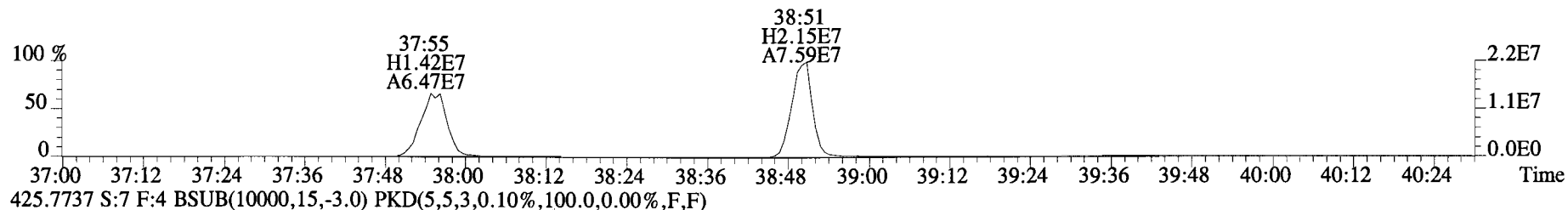
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



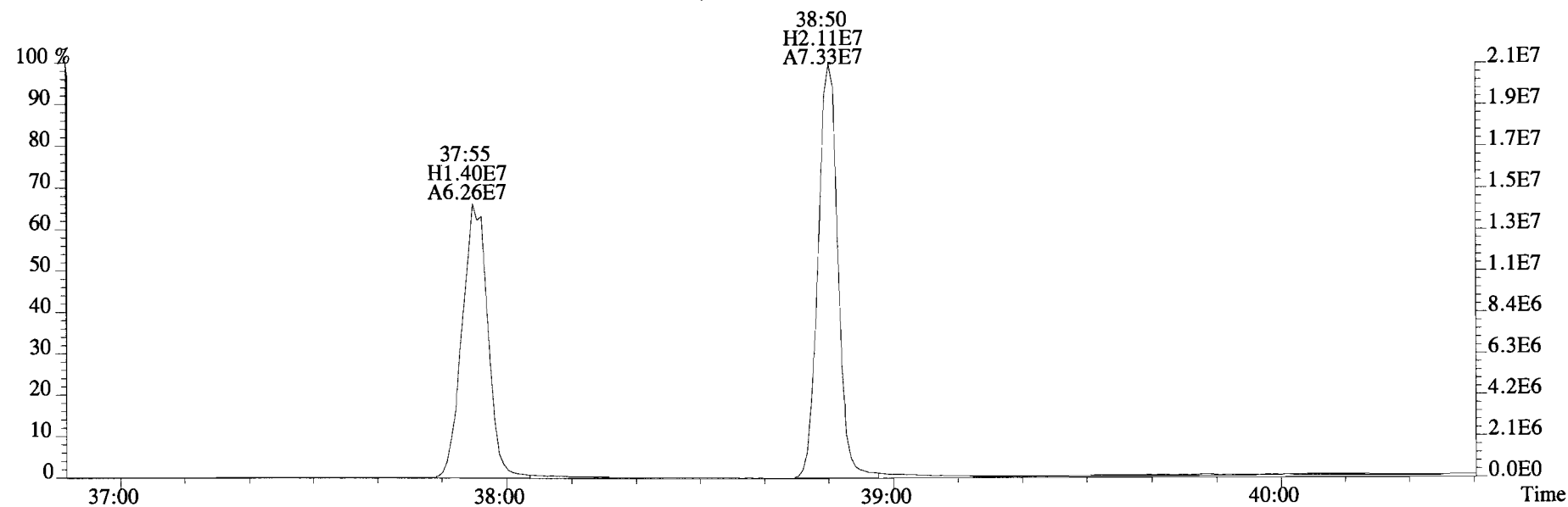
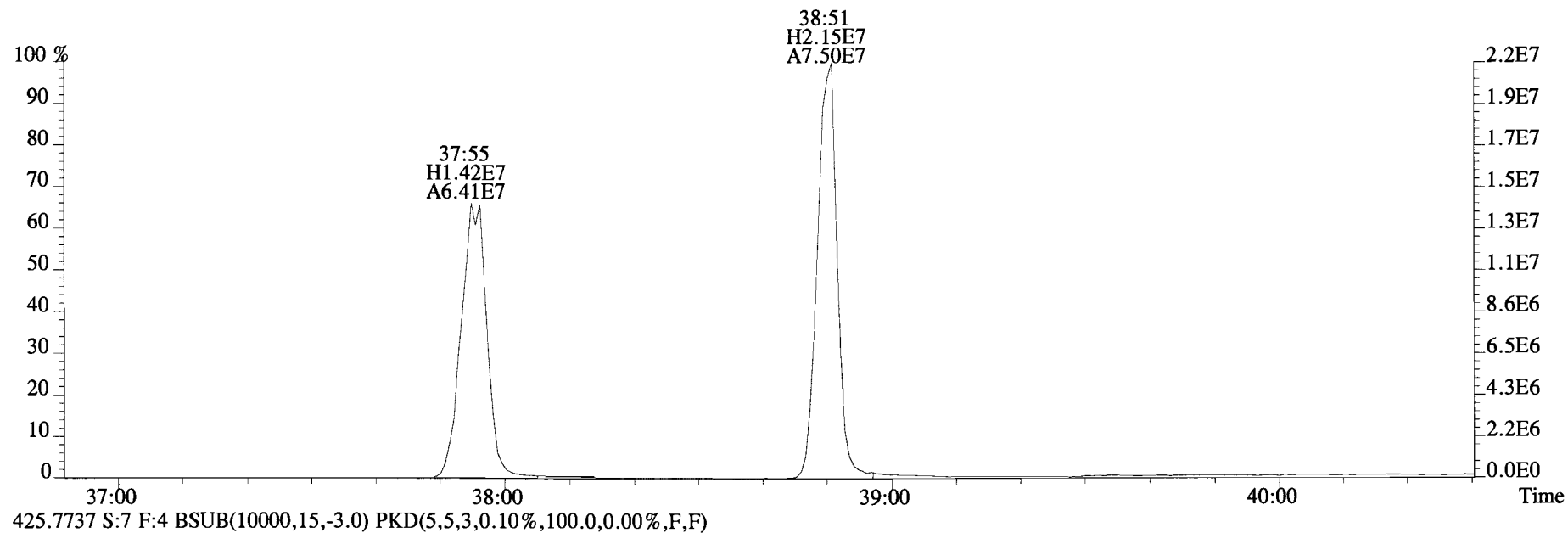
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



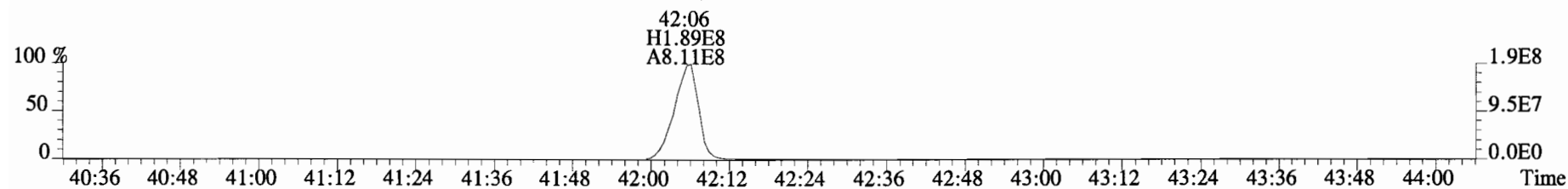
File:141226D2 #1-326 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



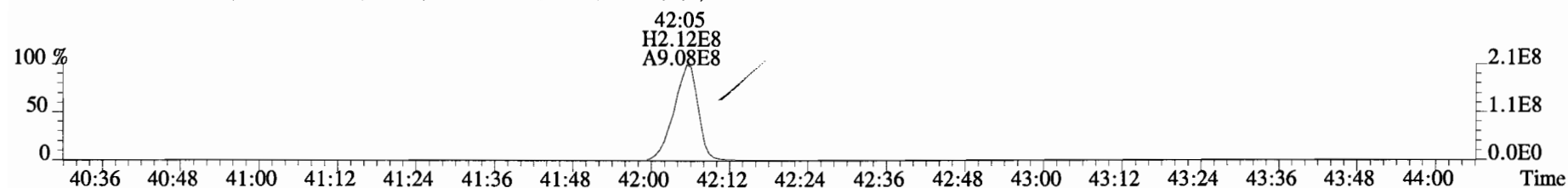
File:141226D2 #1-326 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



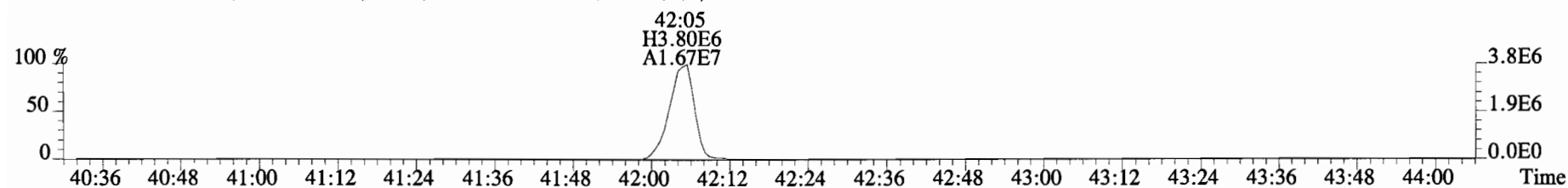
File:141226D2 #1-389 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



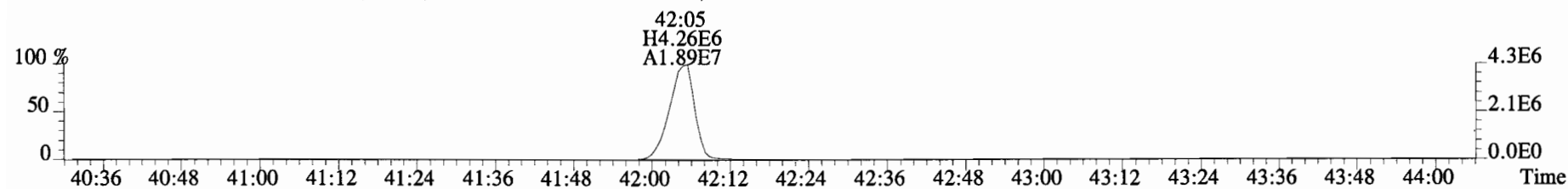
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



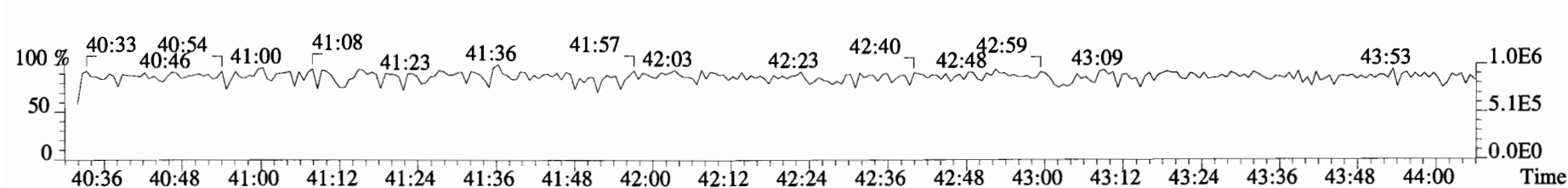
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



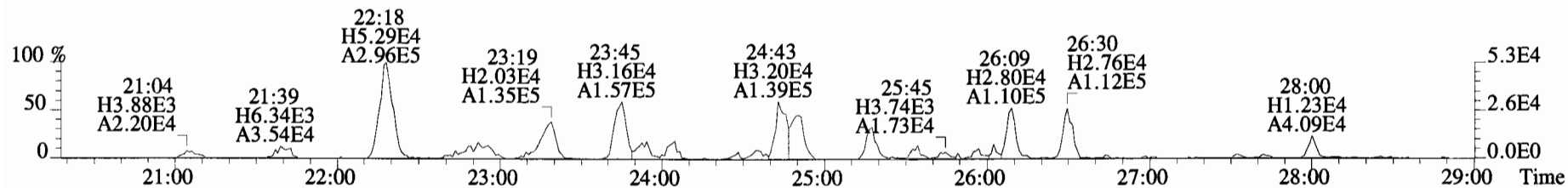
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



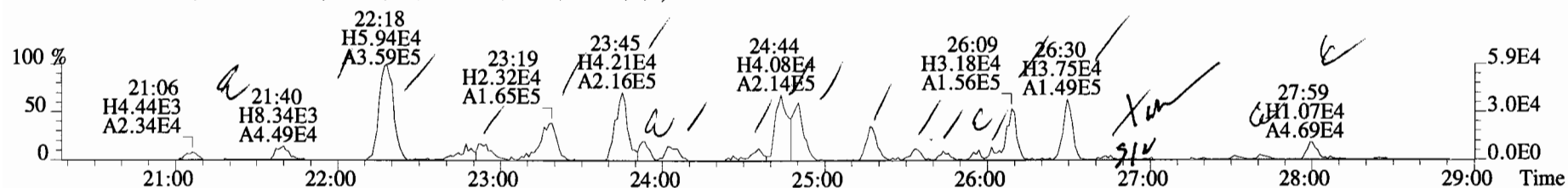
454.9728 S:7 F:5



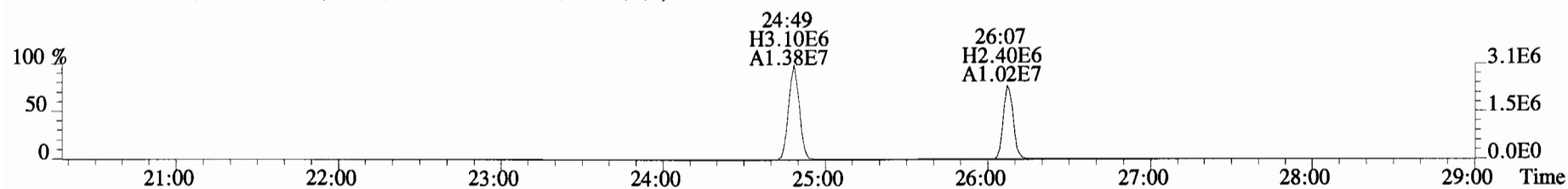
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



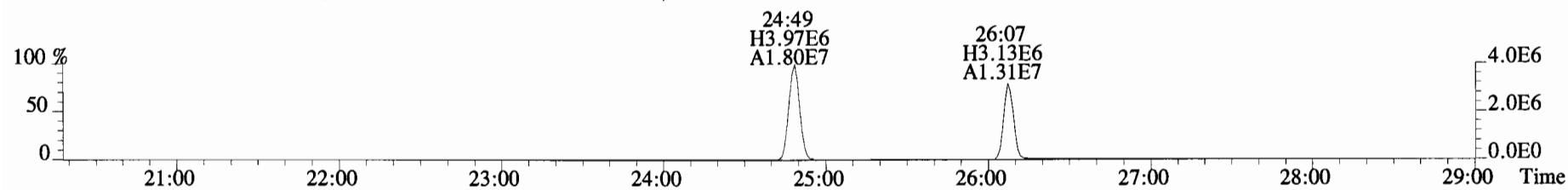
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



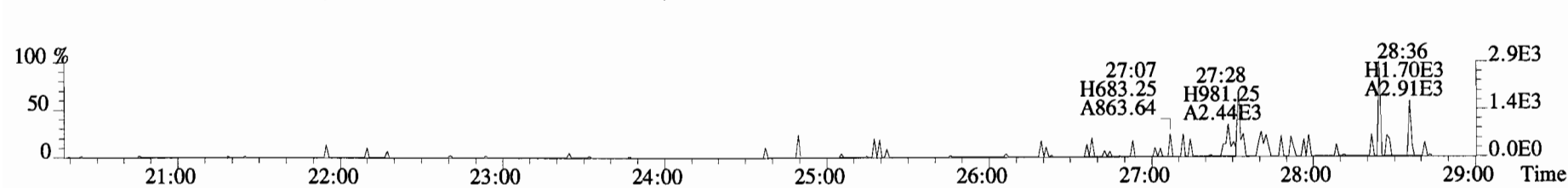
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



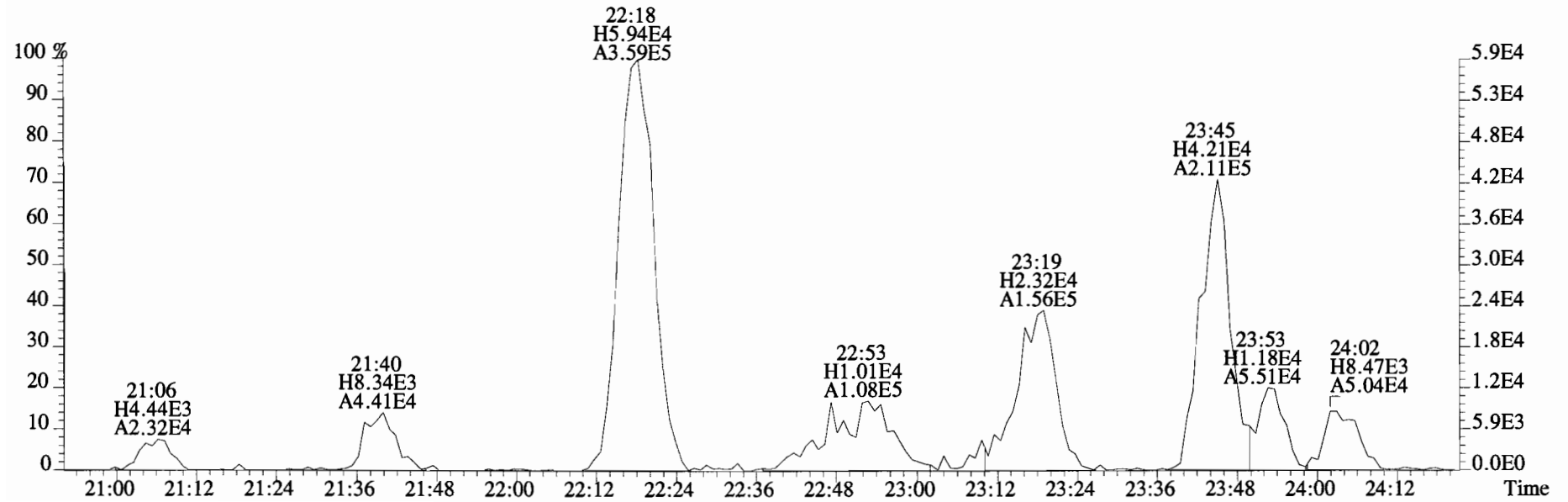
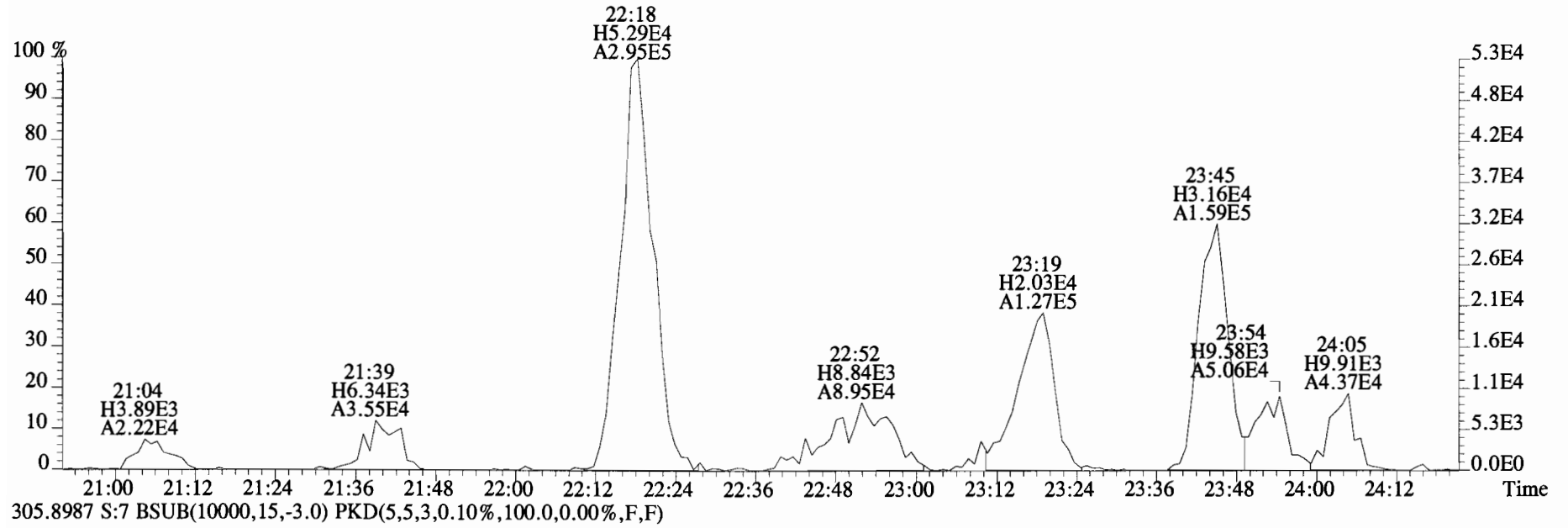
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



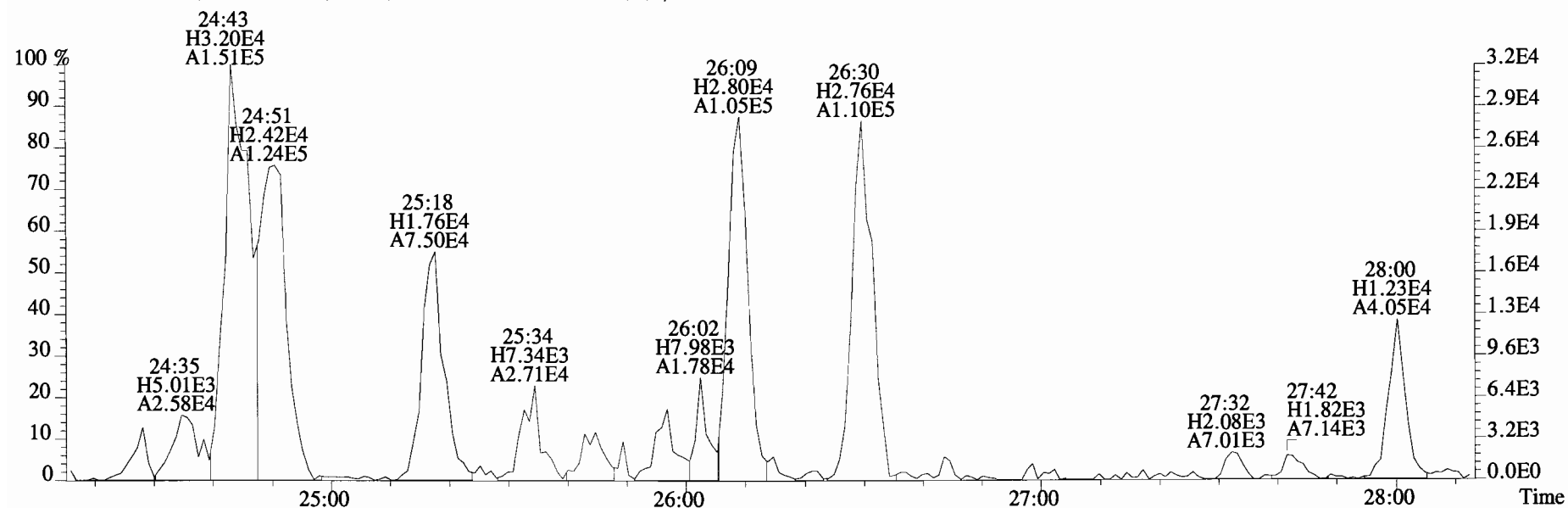
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



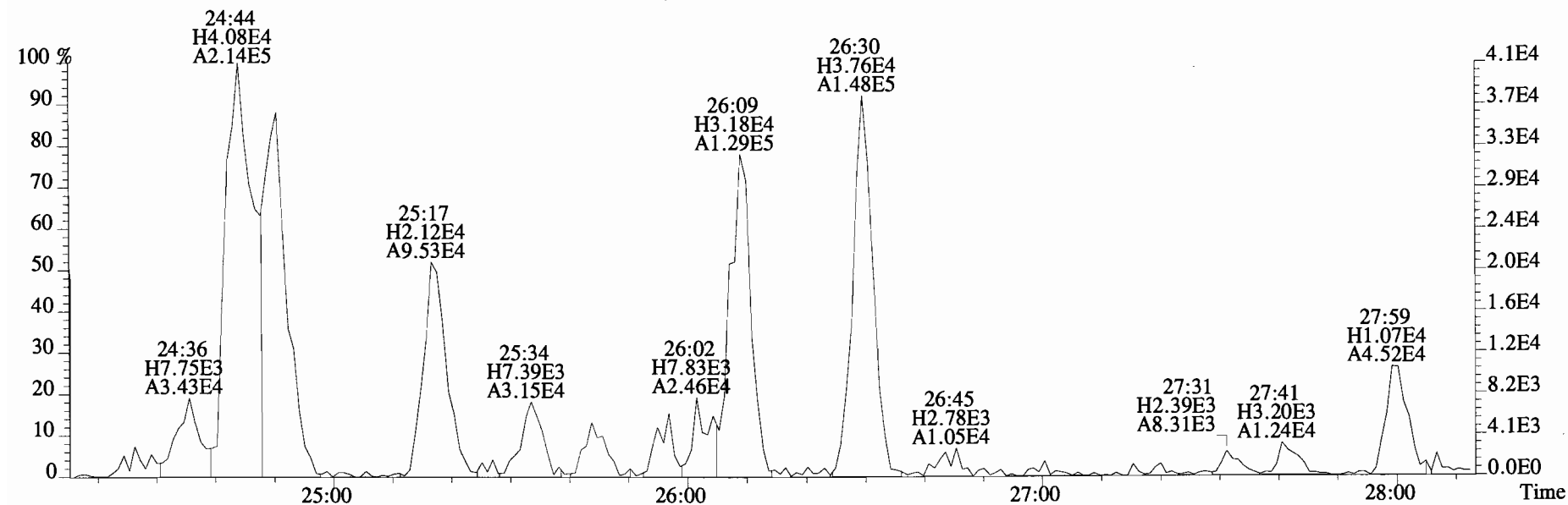
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



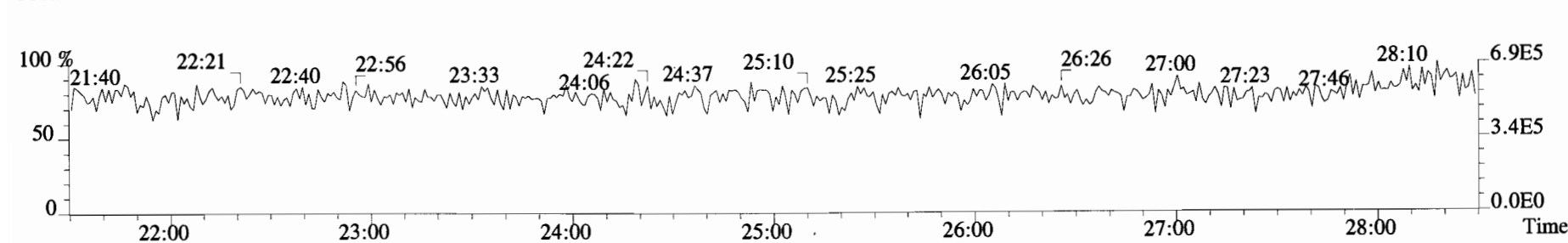
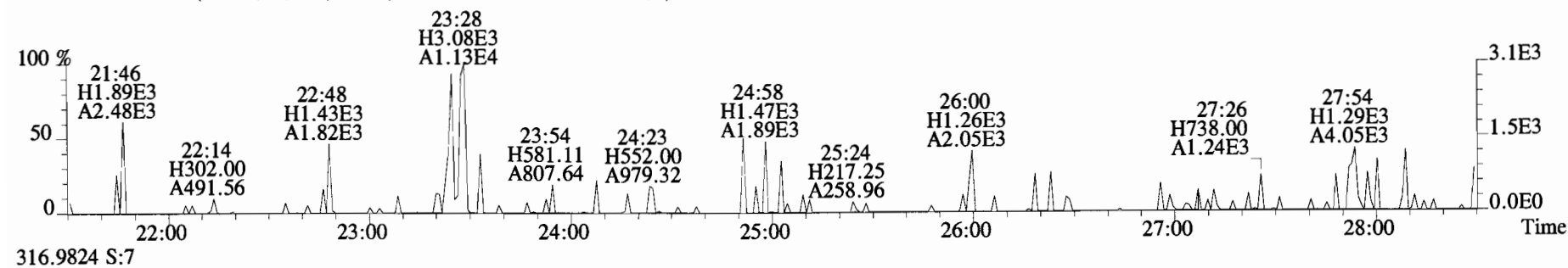
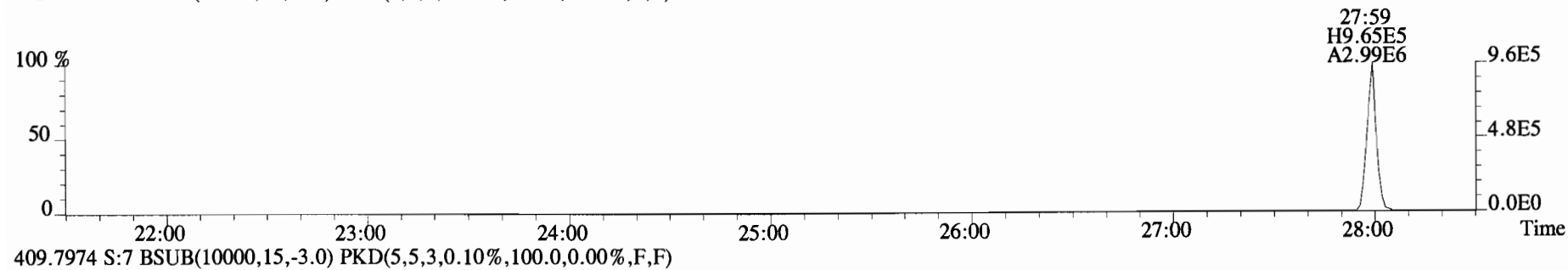
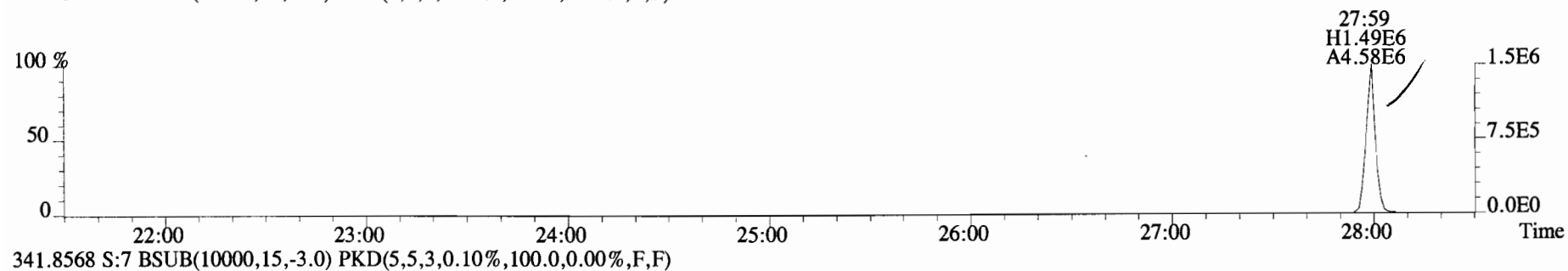
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



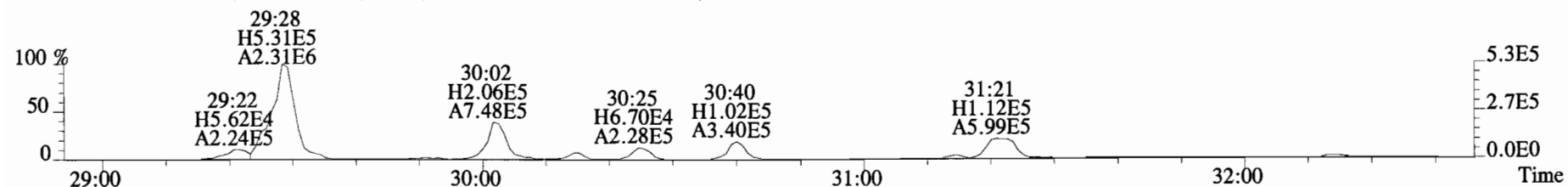
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



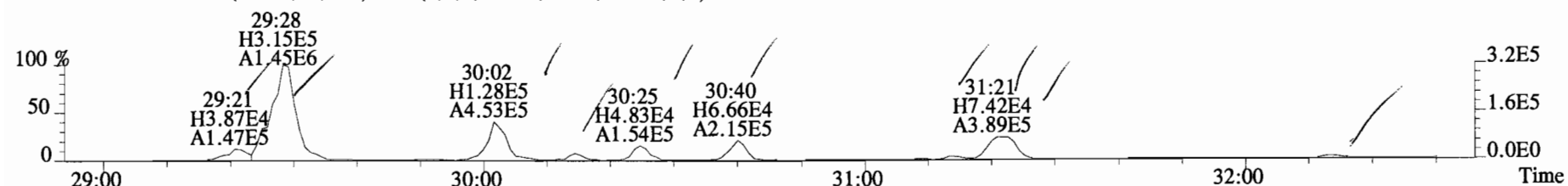
File:141226D2 #1-551 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



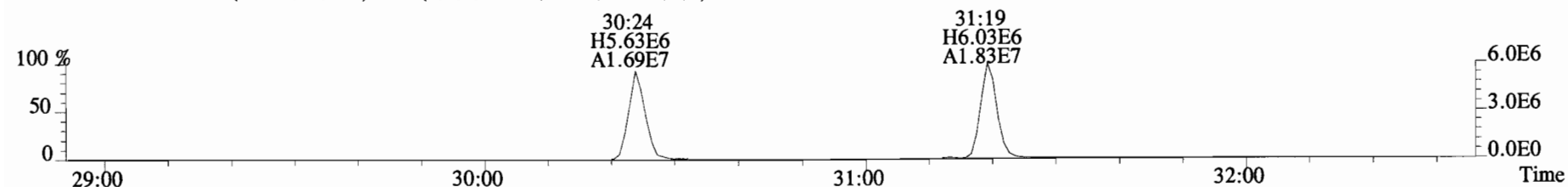
File:141226D2 #1-256 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



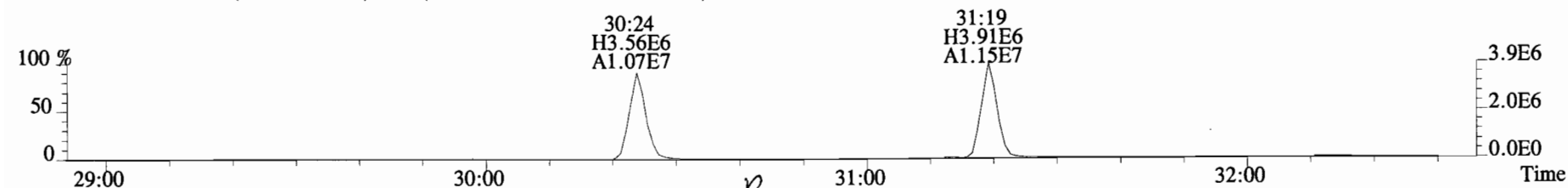
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



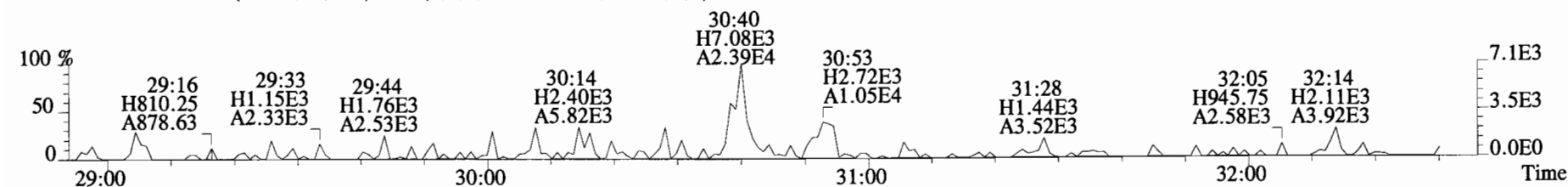
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



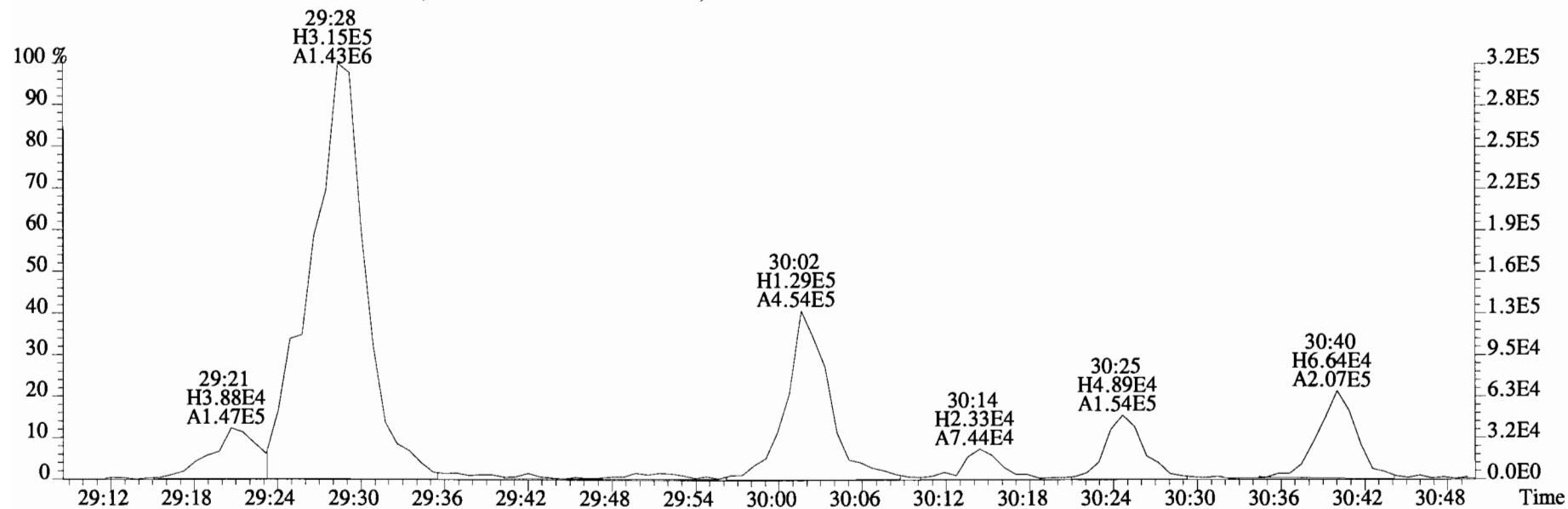
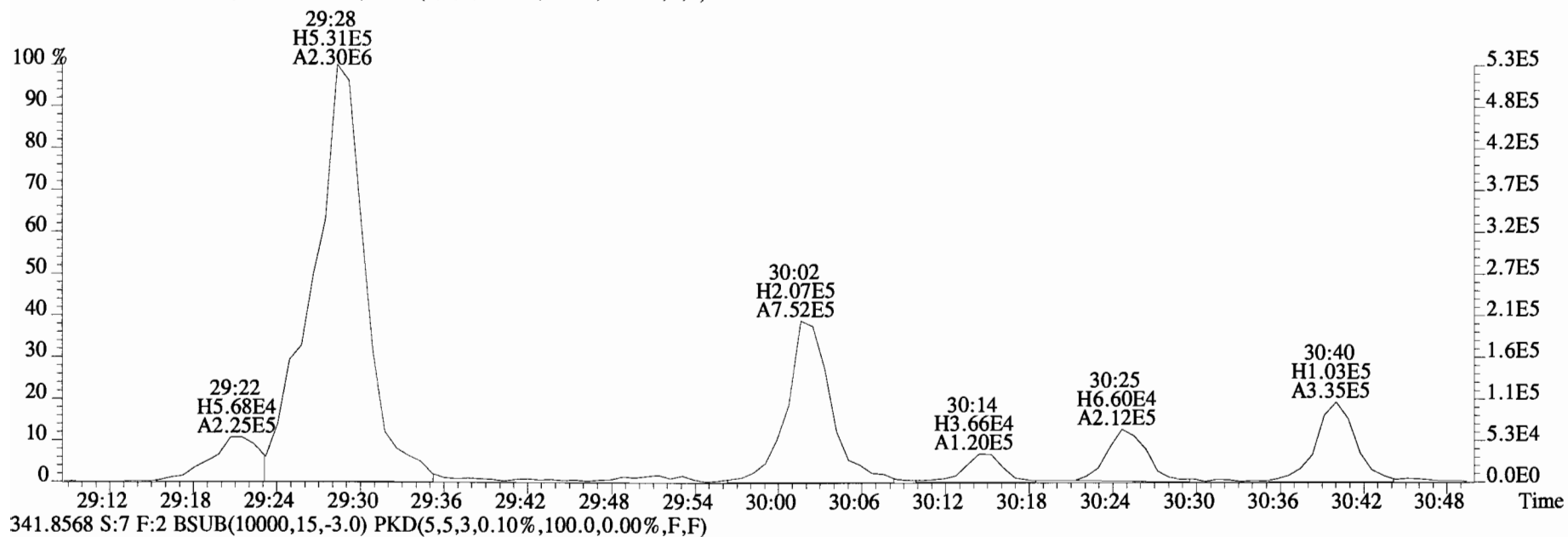
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



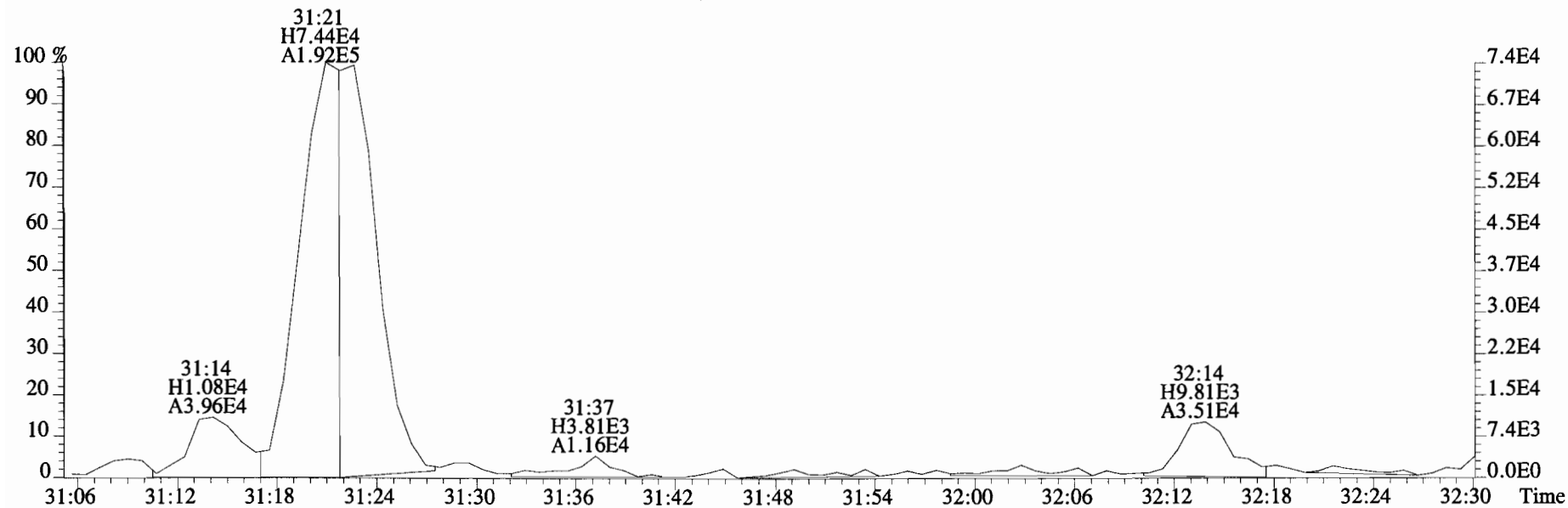
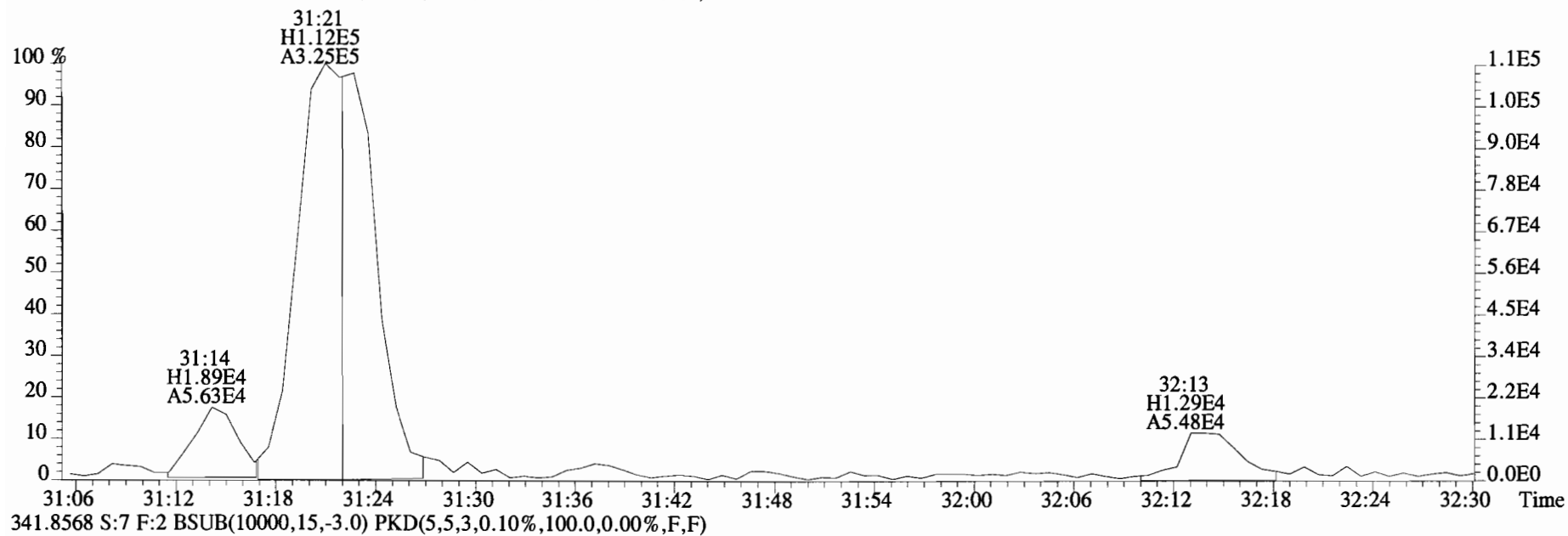
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



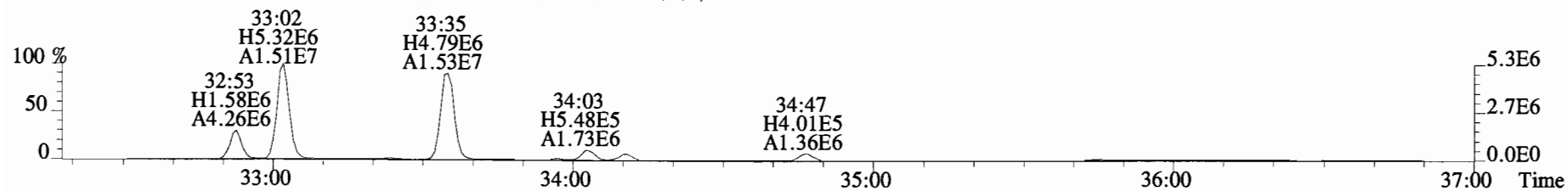
File:141226D2 #1-256 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



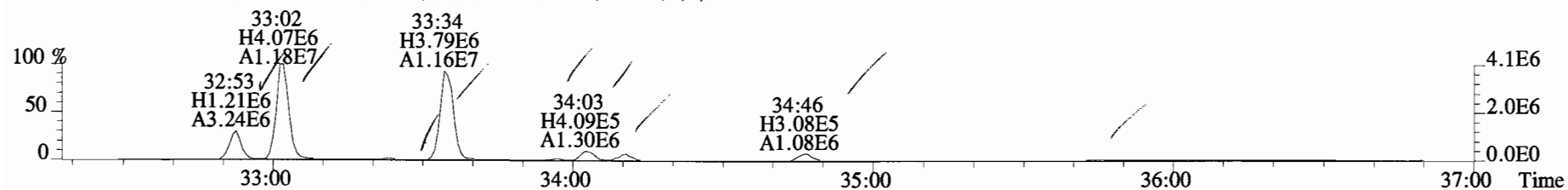
File:141226D2 #1-256 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



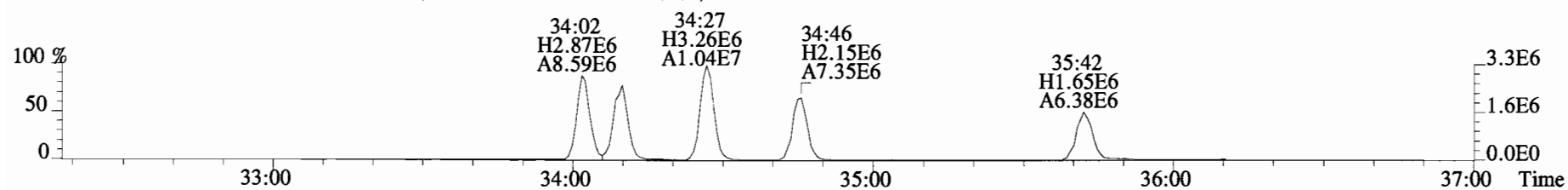
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



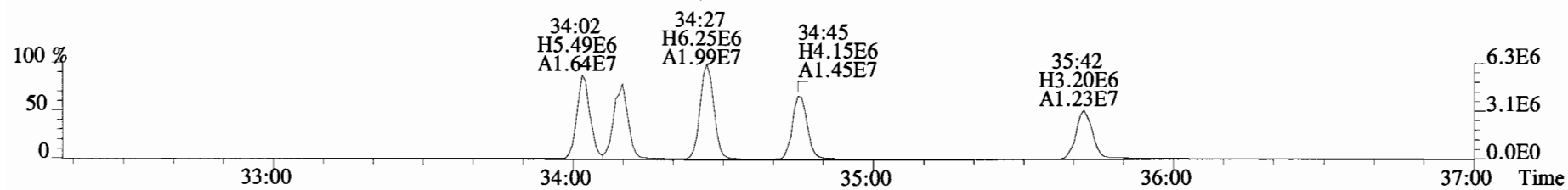
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



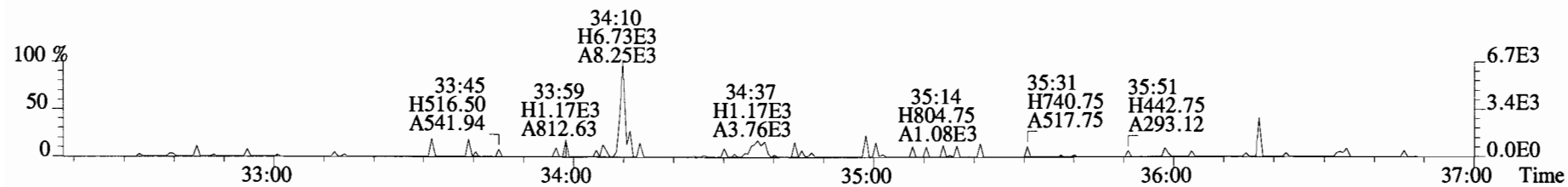
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



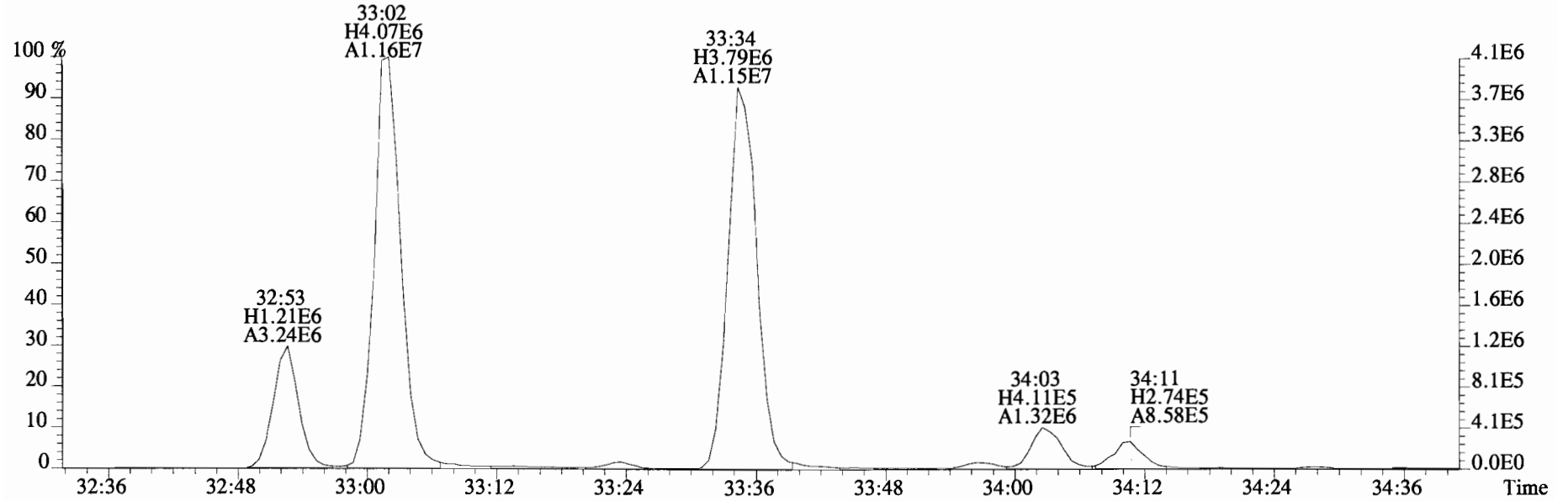
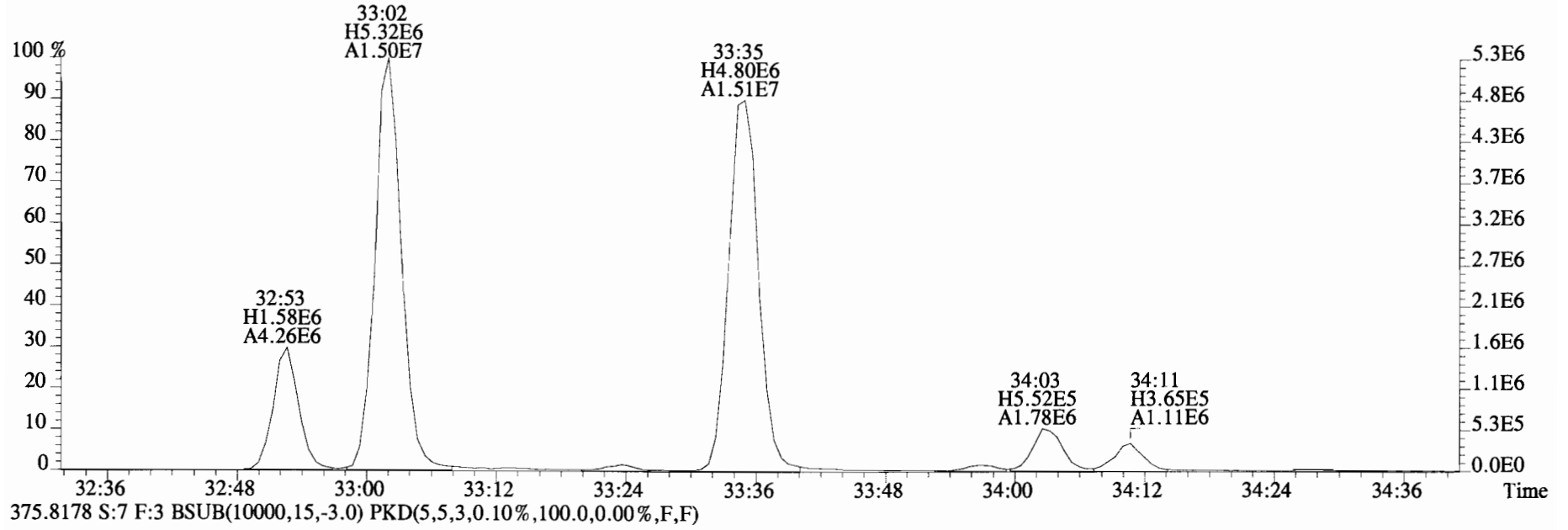
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



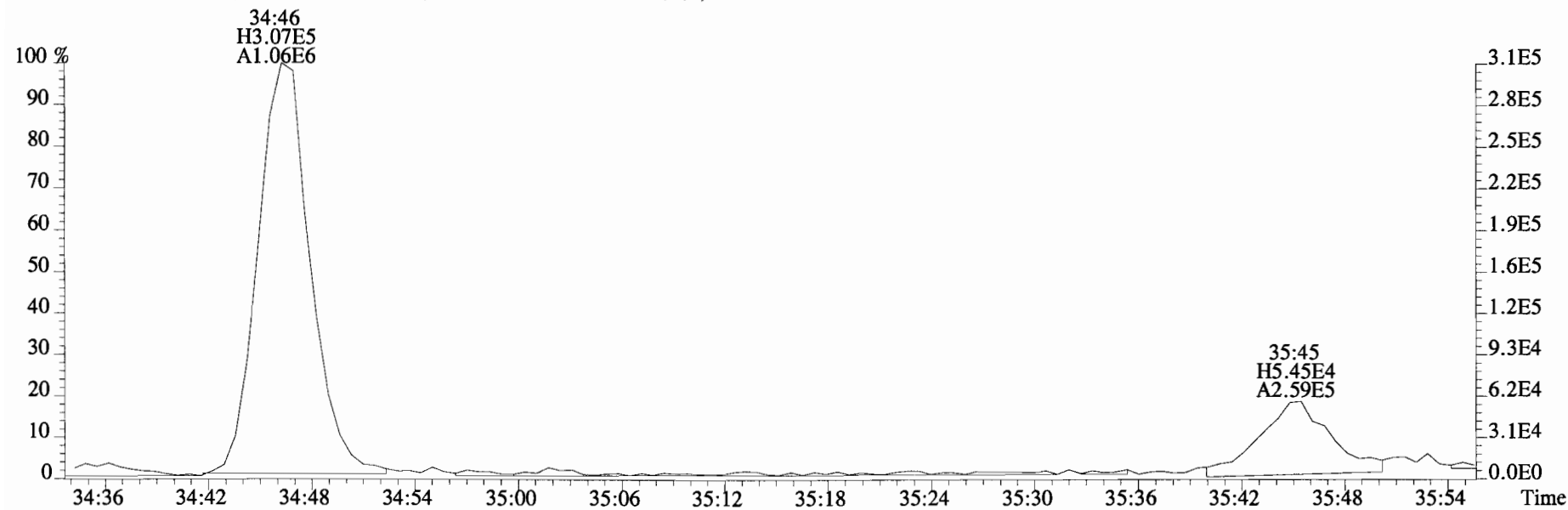
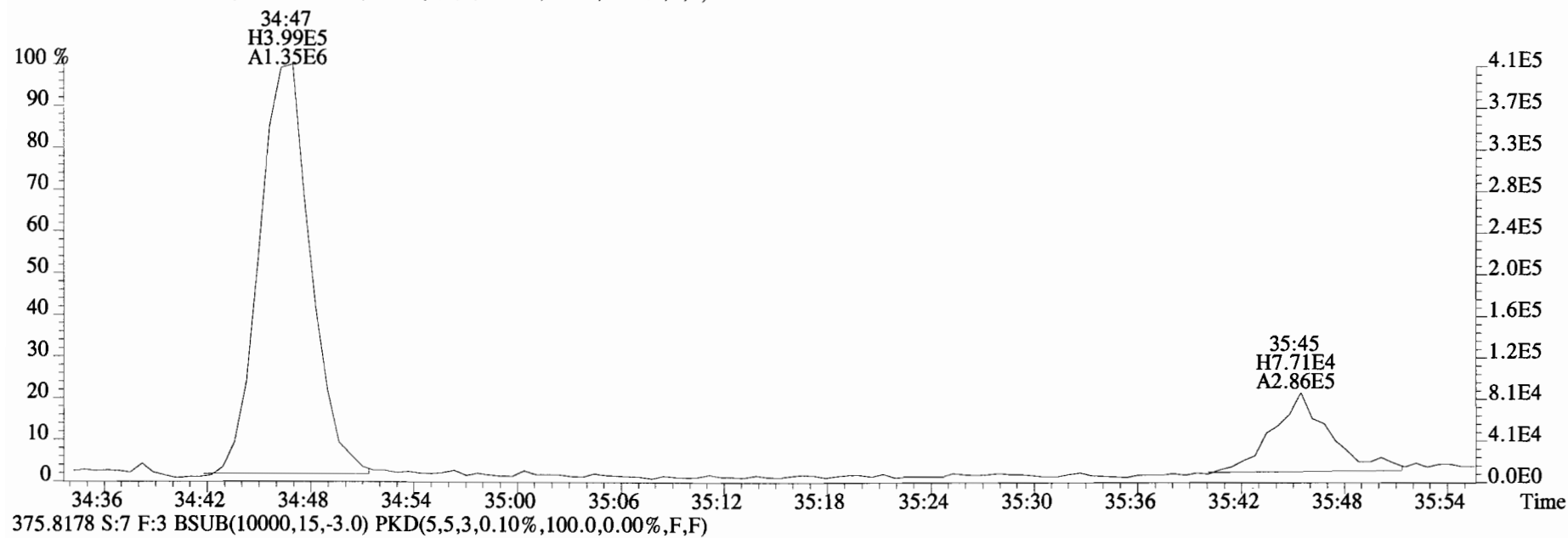
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



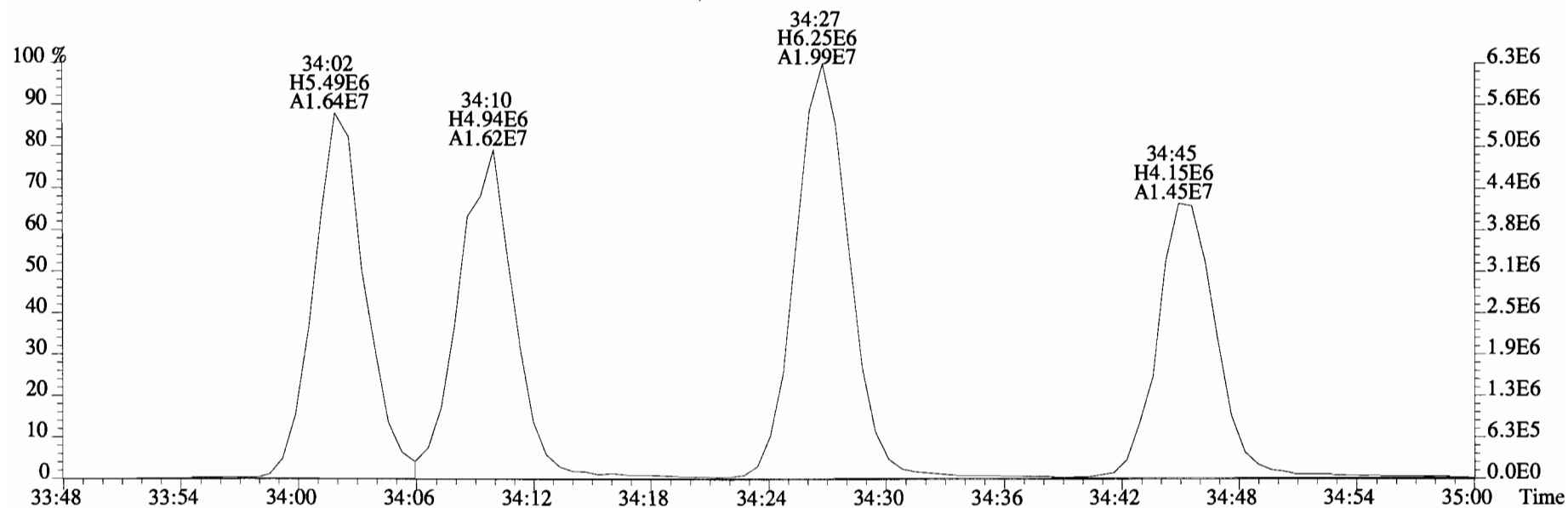
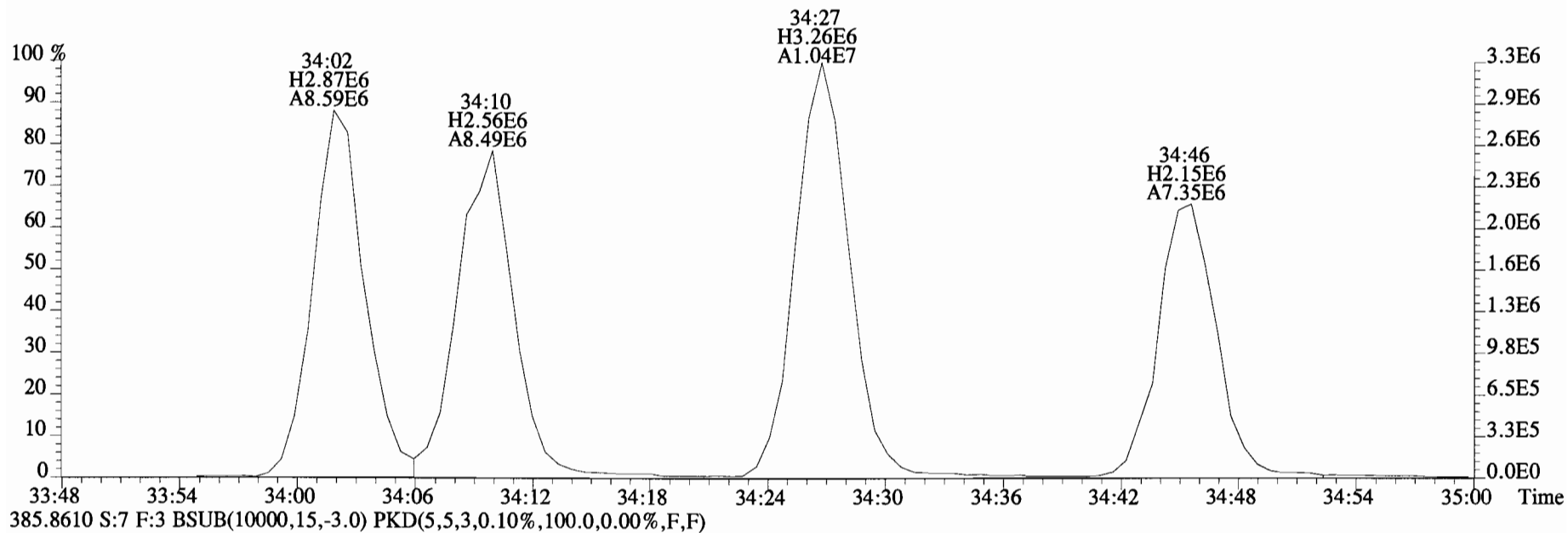
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



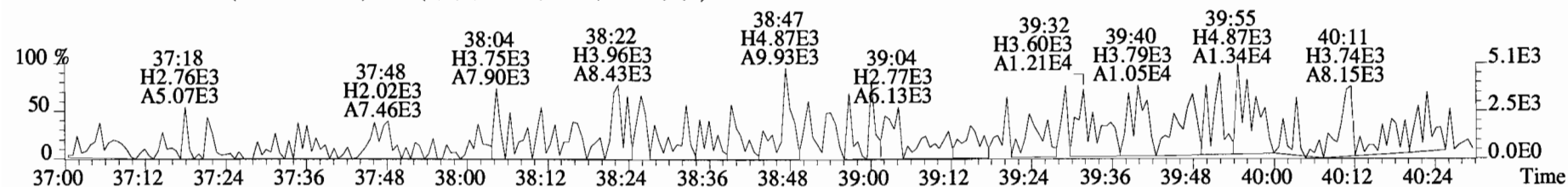
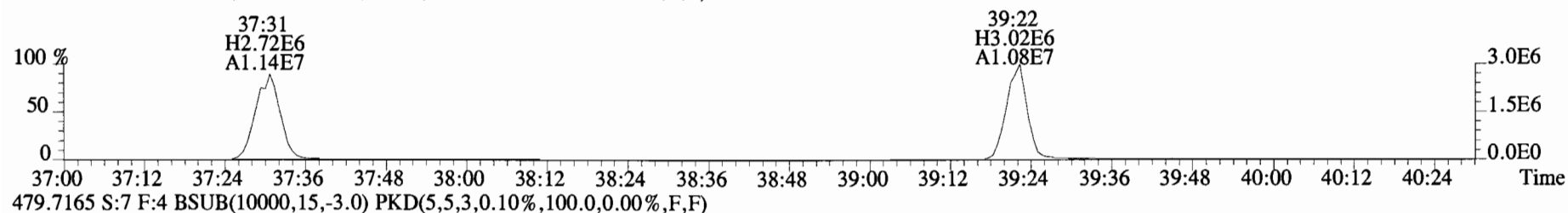
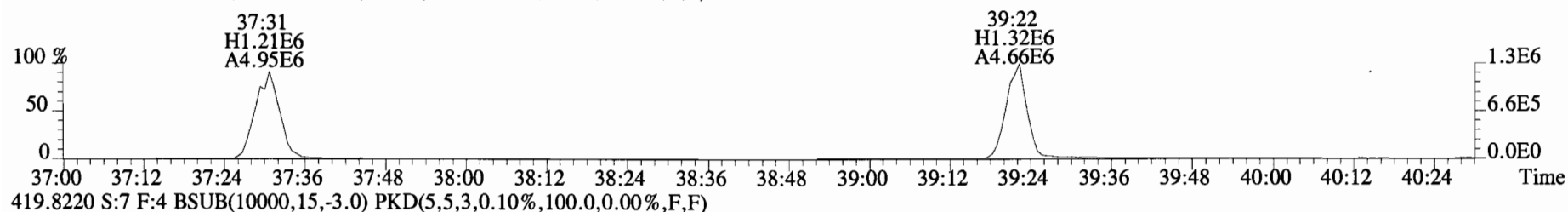
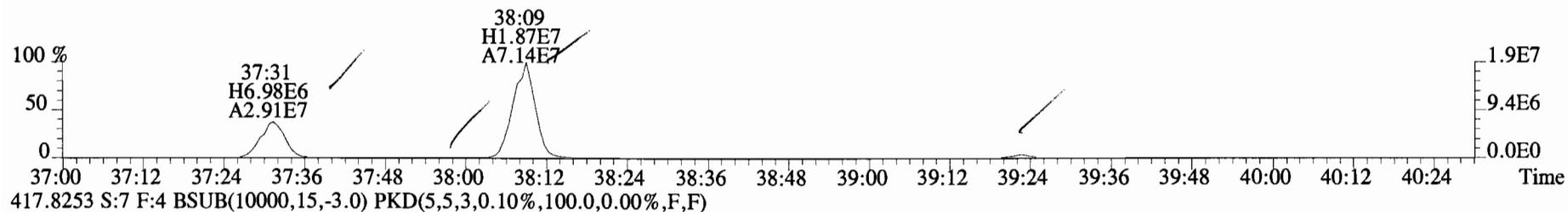
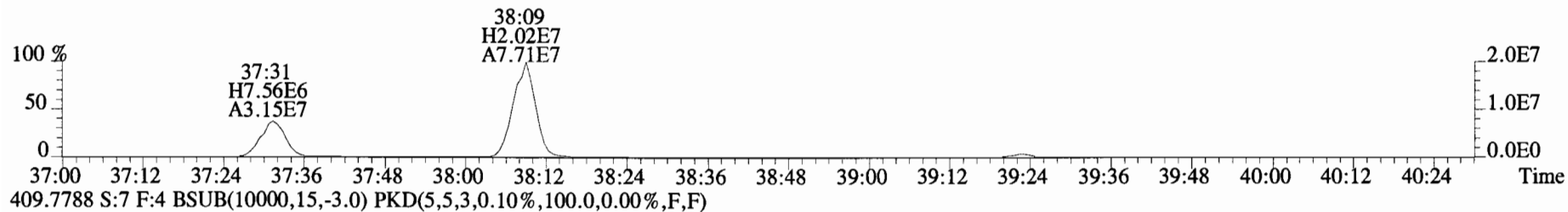
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



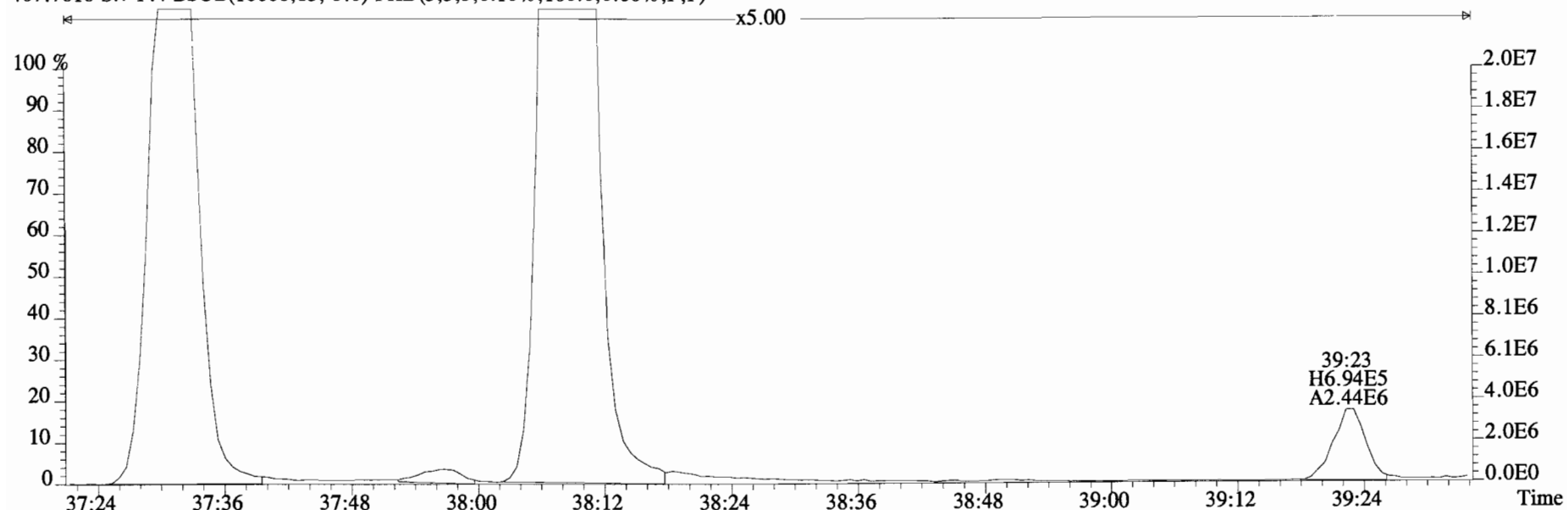
File:141226D2 #1-385 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



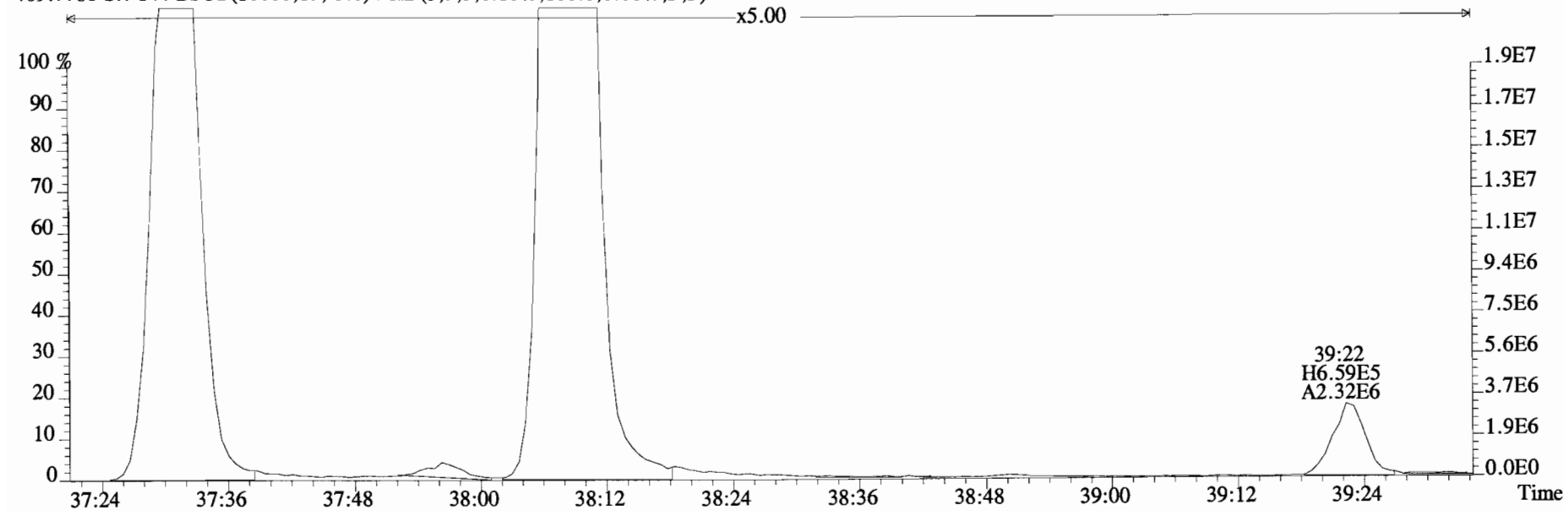
File:141226D2 #1-326 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



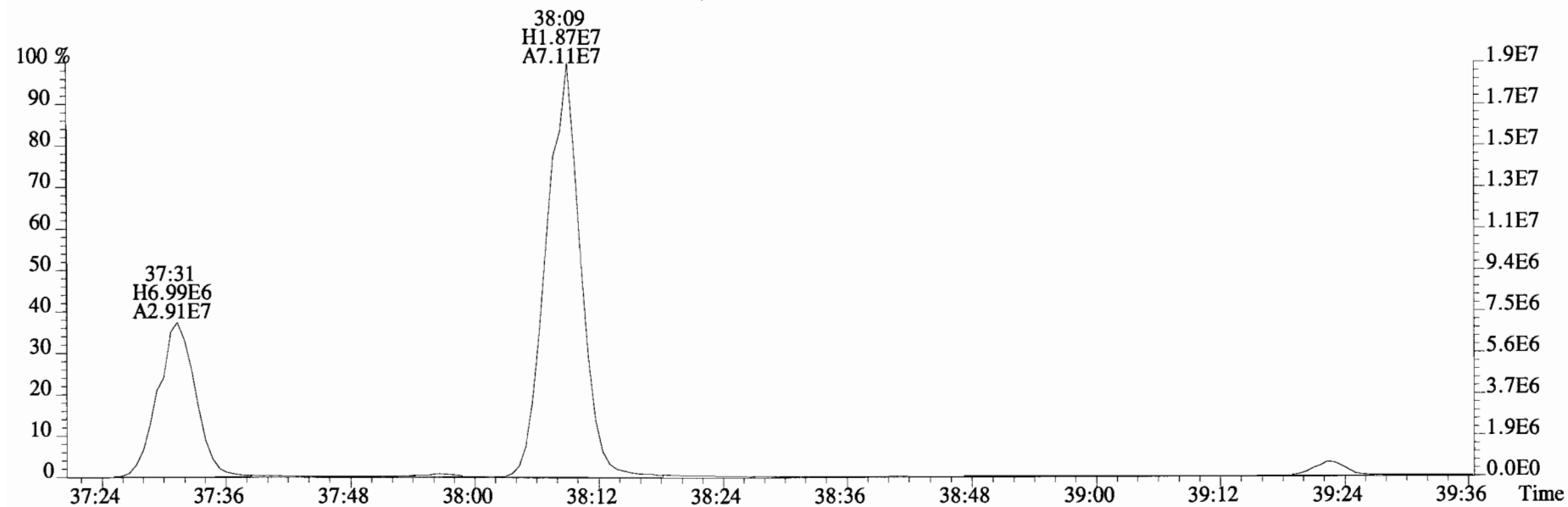
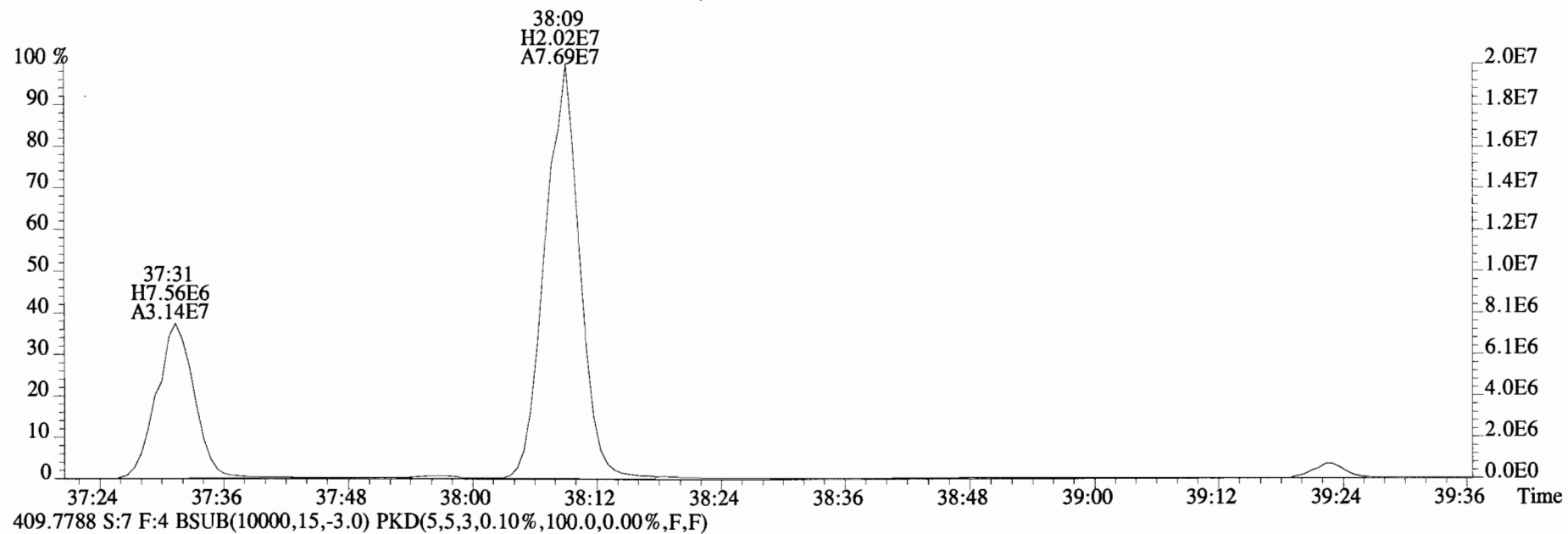
File:141226D2 #1-326 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



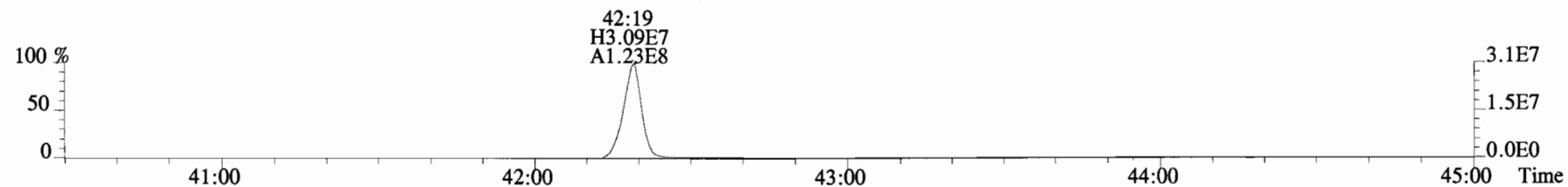
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



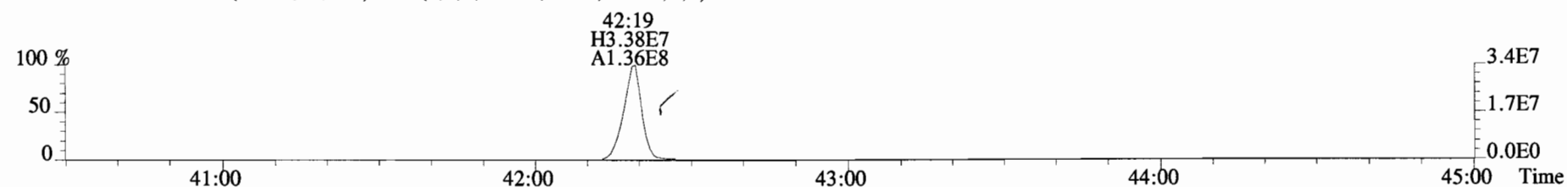
File:141226D2 #1-326 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



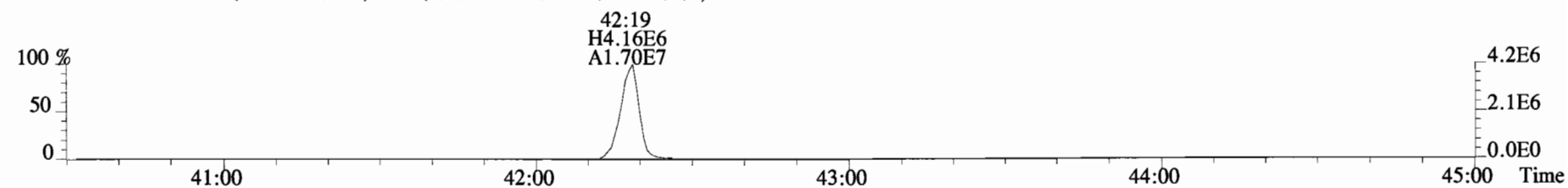
File:141226D2 #1-389 Acq:27-DEC-2014 01:16:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:1400948-03RE1 SC-CB-24-20141211-S 2.43 Exp:OCDD_DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



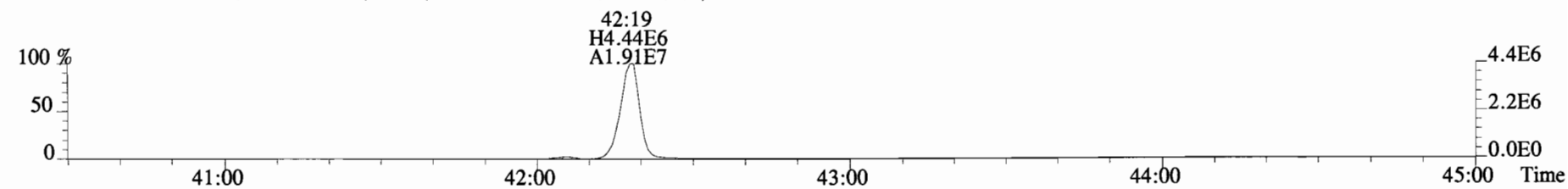
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



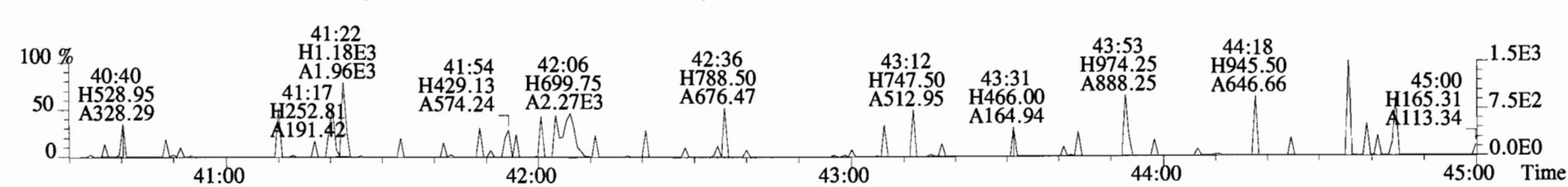
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



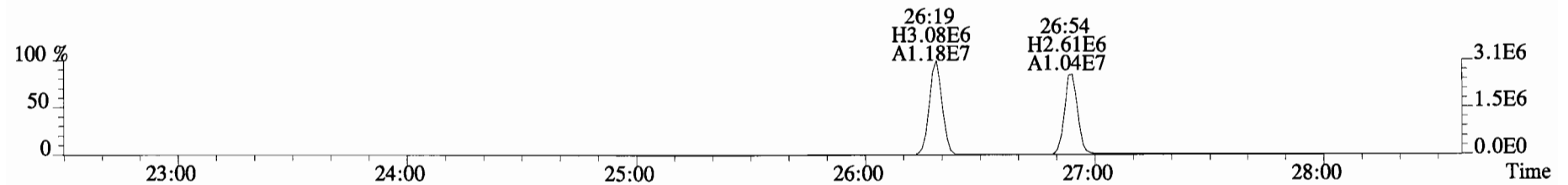
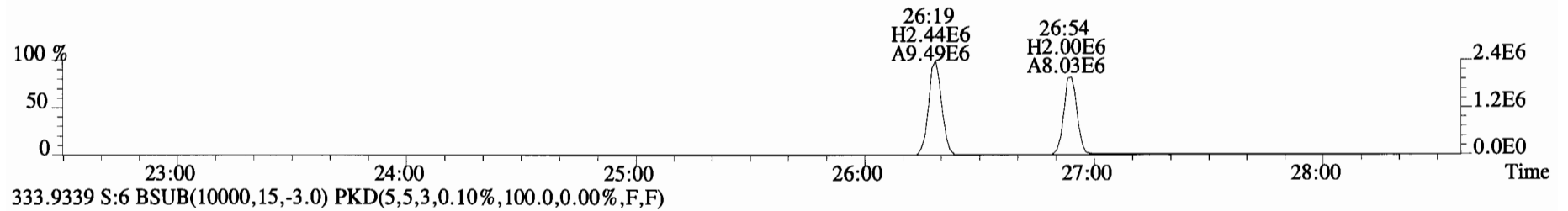
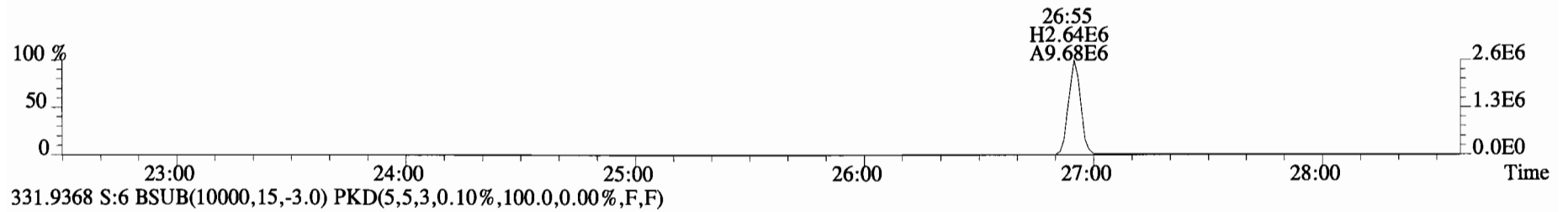
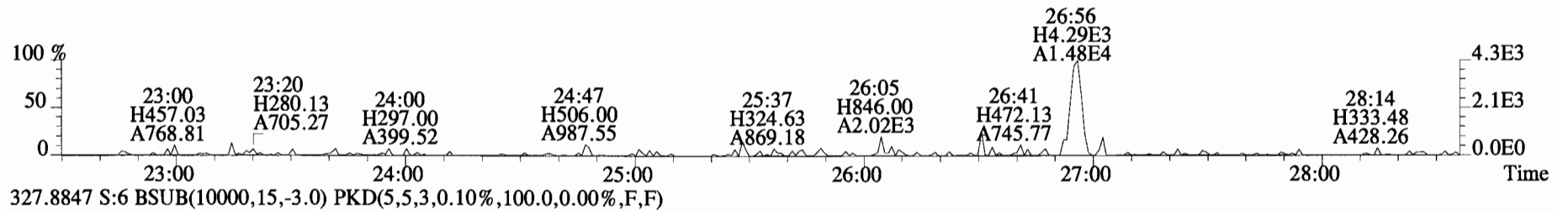
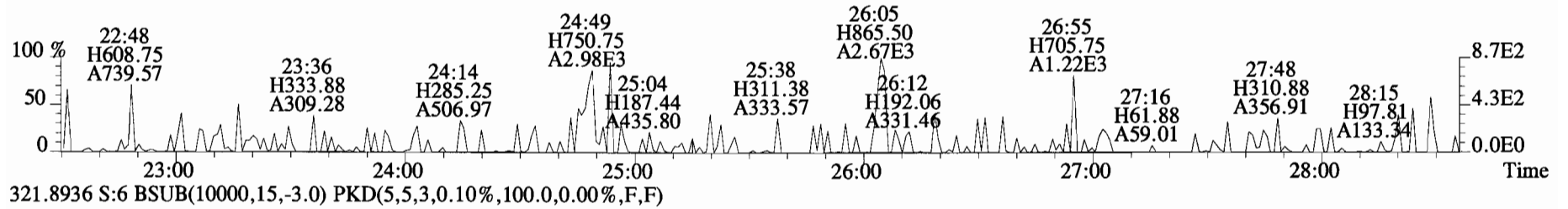
Client ID: Method Blank
 Lab ID: B4L0090-BLK1

Filename: 141217D1 S:6 Acq:17-DEC-14 18:51:09
 GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

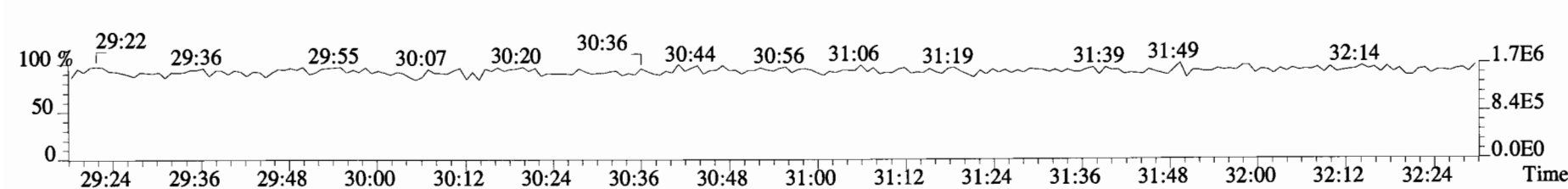
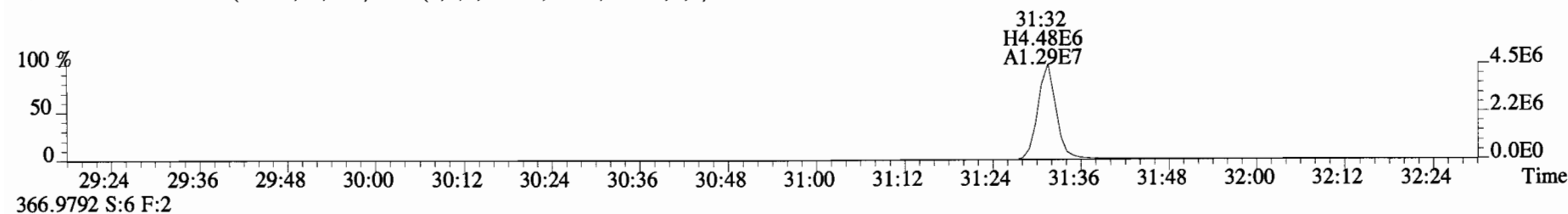
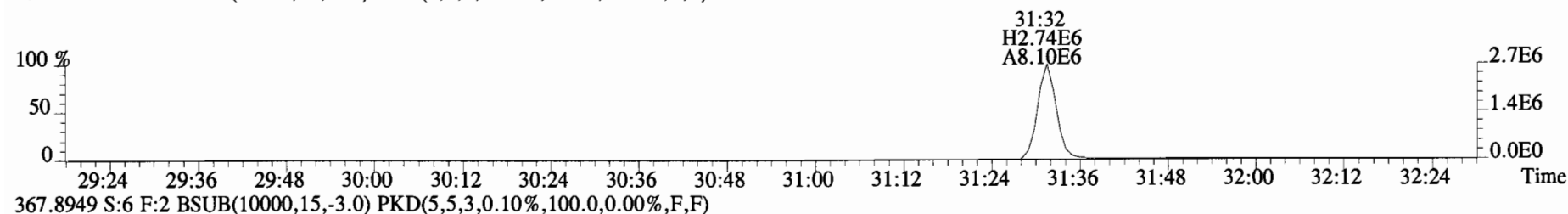
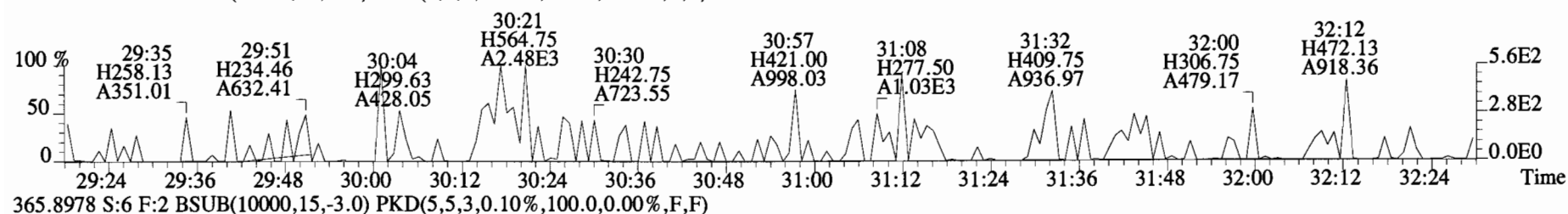
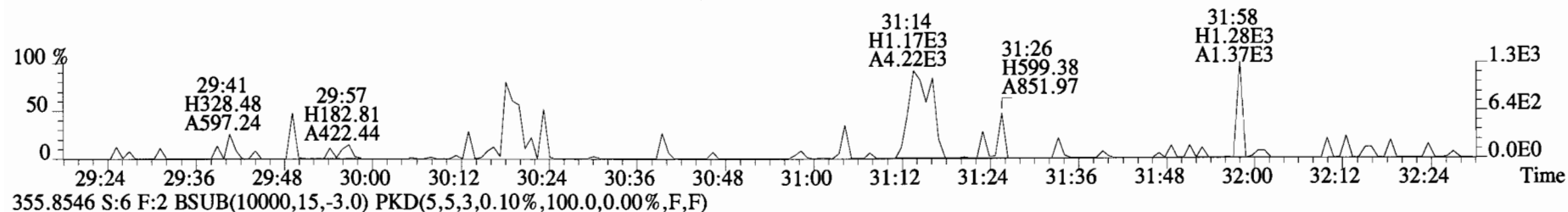
ConCal: ST141217D1-1
 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.18	NotF η	*	*		696	2.5	1.13	Total Tetra-Dioxins	*	*		696	1.13
1,2,3,7,8-PeCDD	*	* n	0.92	NotF η	*	*		361	2.5	0.445	Total Penta-Dioxins	*	*		439	0.542
1,2,3,4,7,8-HxCDD	*	* n	1.09	NotF η	*	*		459	2.5	1.25	Total Hexa-Dioxins	*	*		809	2.27
1,2,3,6,7,8-HxCDD	*	* n	1.07	NotF η	*	*		459	2.5	1.26	Total Hepta-Dioxins	*	*		536	1.49
1,2,3,7,8,9-HxCDD	*	* n	0.93	NotF η	*	*		459	2.5	1.34	Total Tetra-Furans	*	*		736	0.895
1,2,3,4,6,7,8-HpCDD	*	* n	1.12	NotF η	*	*		536	2.5	1.49	Total Penta-Furans	0.0000	0.0000		1080	1.48
OCDD	*	* n	0.95	NotF η	*	*		1050	2.5	4.89	Total Hexa-Furans	*	*		1040	1.11
											Total Hepta-Furans	*	*		723	1.13
2,3,7,8-TCDF	*	* n	1.08	NotF η	*	*		736	2.5	0.895						
1,2,3,7,8-PeCDF	*	* n	1.09	NotF η	*	*		528	2.5	0.703						
2,3,4,7,8-PeCDF	*	* n	1.04	NotF η	*	*		528	2.5	0.740						
1,2,3,4,7,8-HxCDF	*	* n	1.39	NotF η	*	*		1040	2.5	0.787						
1,2,3,6,7,8-HxCDF	*	* n	1.26	NotF η	*	*		1040	2.5	1.03						
2,3,4,6,7,8-HxCDF	*	* n	1.30	NotF η	*	*		599	2.5	0.640						
1,2,3,7,8,9-HxCDF	*	* n	1.19	NotF η	*	*		599	2.5	0.992						
1,2,3,4,6,7,8-HpCDF	*	* n	1.62	NotF η	*	*		723	2.5	1.13						
1,2,3,4,7,8,9-HpCDF	*	* n	1.53	NotF η	*	*		401	2.5	0.627						
OCDF	*	* n	1.10	NotF η	*	*		701	2.5	2.28						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.84e+07	0.78 y	1.07	26:54	1.022	1611.6					80.6					
IS 13C-1,2,3,7,8-PeCDD	2.10e+07	0.63 y	1.24	31:32	1.198	1589.9					79.5					
IS 13C-1,2,3,4,7,8-HxCDD	1.40e+07	1.22 y	0.72	34:50	1.014	1463.2					73.2					
IS 13C-1,2,3,6,7,8-HxCDD	1.42e+07	1.24 y	0.74	34:57	1.017	1459.2					73.0					
IS 13C-1,2,3,7,8,9-HxCDD	1.65e+07	1.25 y	0.86	35:14	1.025	1460.5					73.0					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.30e+07	1.06 y	0.64	38:44	1.127	1531.3					76.6					
IS 13C-OCDD	2.05e+07	0.89 y	0.78	41:60	1.222	1980.2					49.5					
IS 13C-2,3,7,8-TCDF	2.71e+07	0.77 y	0.92	26:06	0.992	1616.3					80.8					
IS 13C-1,2,3,7,8-PeCDF	2.72e+07	1.59 y	0.95	30:20	1.153	1579.4					79.0					
IS 13C-2,3,4,7,8-PeCDF	2.84e+07	1.60 y	0.97	31:14	1.187	1615.3					80.8					
IS 13C-1,2,3,4,7,8-HxCDF	2.35e+07	0.51 y	0.99	33:57	0.988	1795.3					89.8					
IS 13C-1,2,3,6,7,8-HxCDF	2.20e+07	0.52 y	1.10	34:05	0.992	1518.0					75.9					
IS 13C-2,3,4,6,7,8-HxCDF	2.00e+07	0.52 y	1.03	34:40	1.009	1466.8					73.3					
IS 13C-1,2,3,7,8,9-HxCDF	1.74e+07	0.51 y	0.86	35:38	1.037	1529.0					76.5					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.42e+07	0.44 y	0.71	37:26	1.090	1501.1					75.1					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.26e+07	0.44 y	0.71	39:17	1.143	1340.6					67.0					
IS 13C-OCDF	2.67e+07	0.88 y	0.87	42:13	1.229	2310.6					57.8					
C/Up 37Cl-2,3,7,8-TCDD	9.68e+06		1.21	26:55	1.023	751.35					93.9					
RS/RT 13C-1,2,3,4-TCDD	2.13e+07	0.81 y	1.00	26:19	*	2000.0						Integrations	Reviewed			
RS 13C-1,2,3,4-TCDF	3.63e+07	0.77 y	1.00	24:48	*	2000.0						by <u>M</u>	by <u>[Signature]</u>			
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.65e+07	0.52 y	1.00	34:22	*	2000.0						Analyst: <u>[Signature]</u>	Analyst: <u>[Signature]</u>			
												Date: <u>12/18/14</u>	Date: <u>12/19/14</u>			

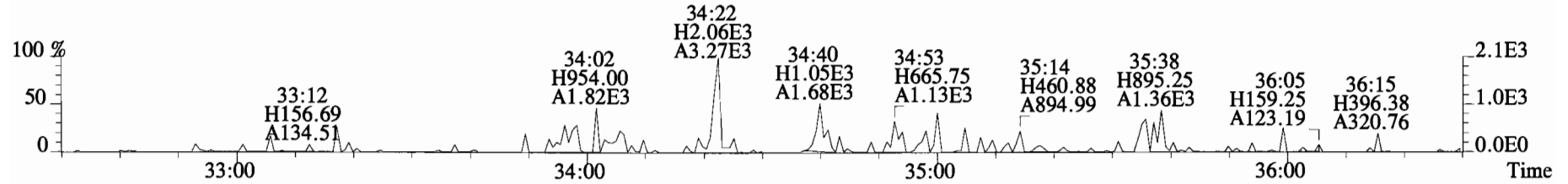
File:141217D1 #1-552 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



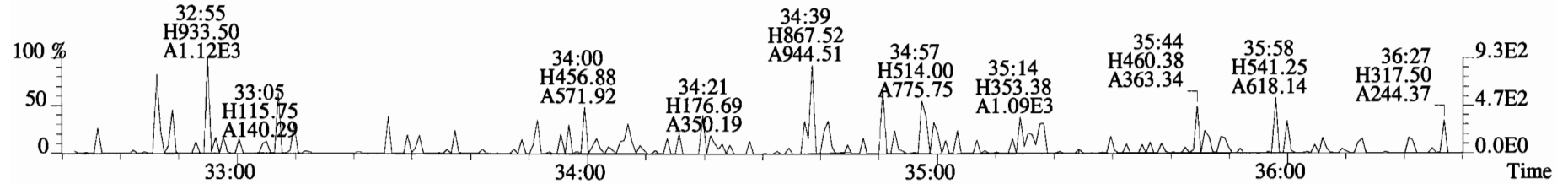
File:141217D1 #1-256 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



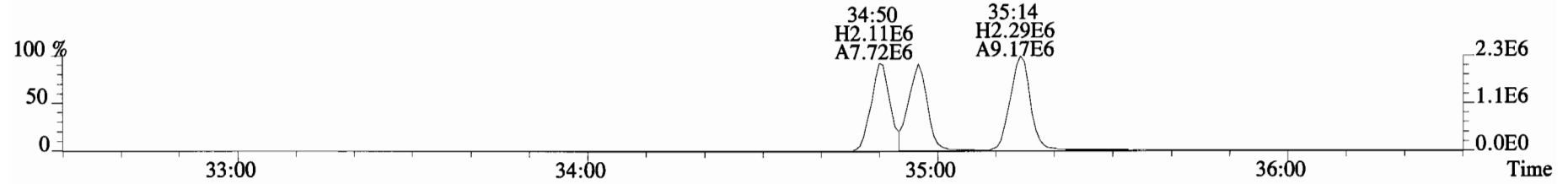
File:141217D1 #1-385 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



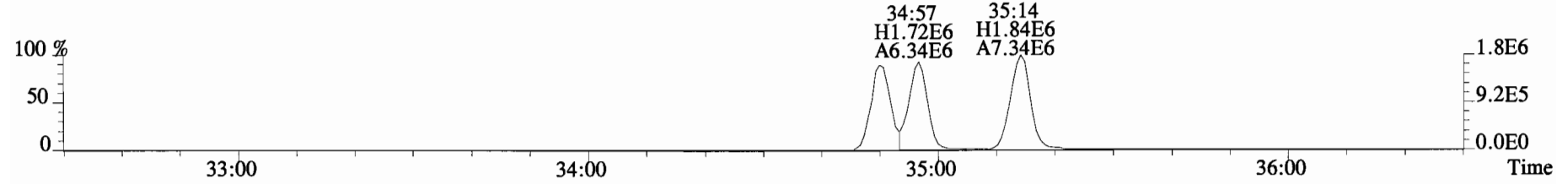
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



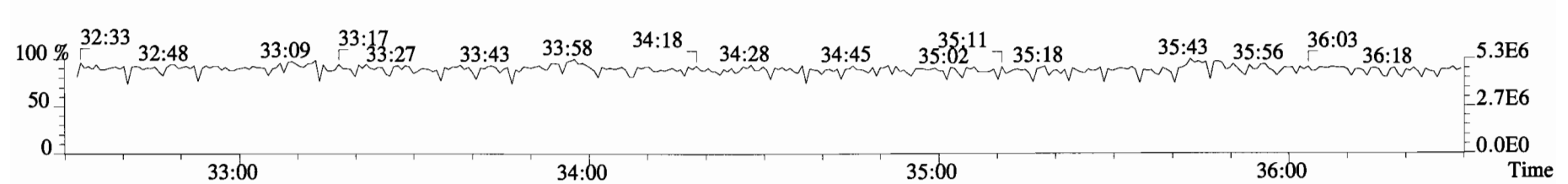
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



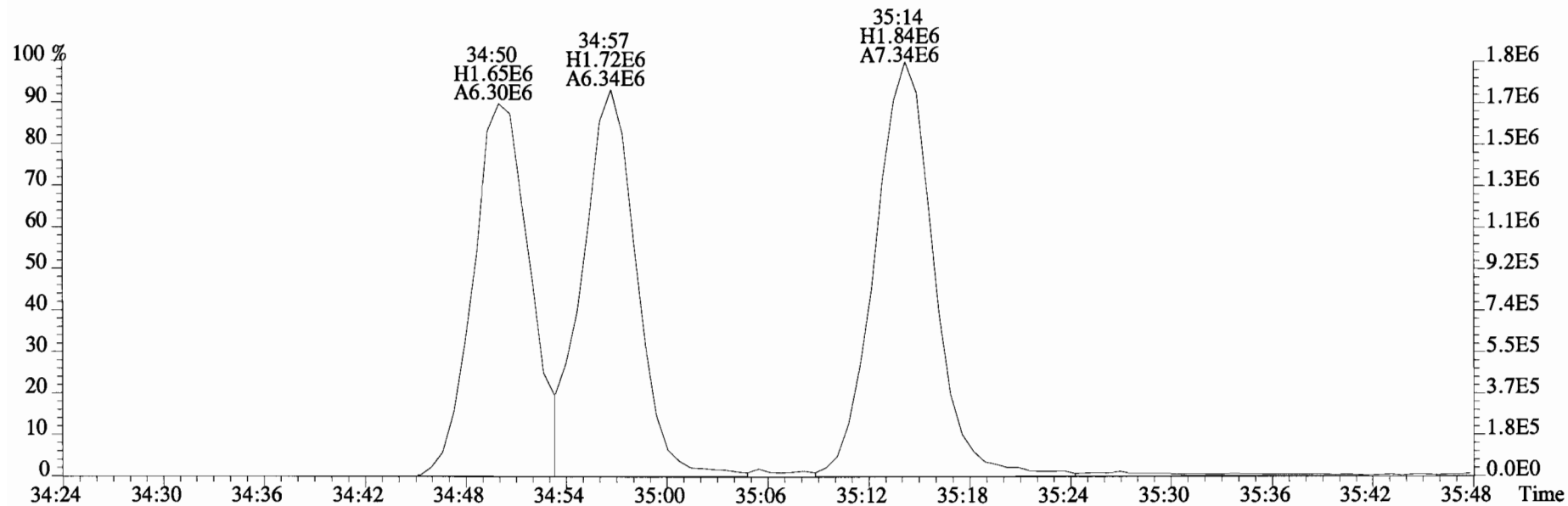
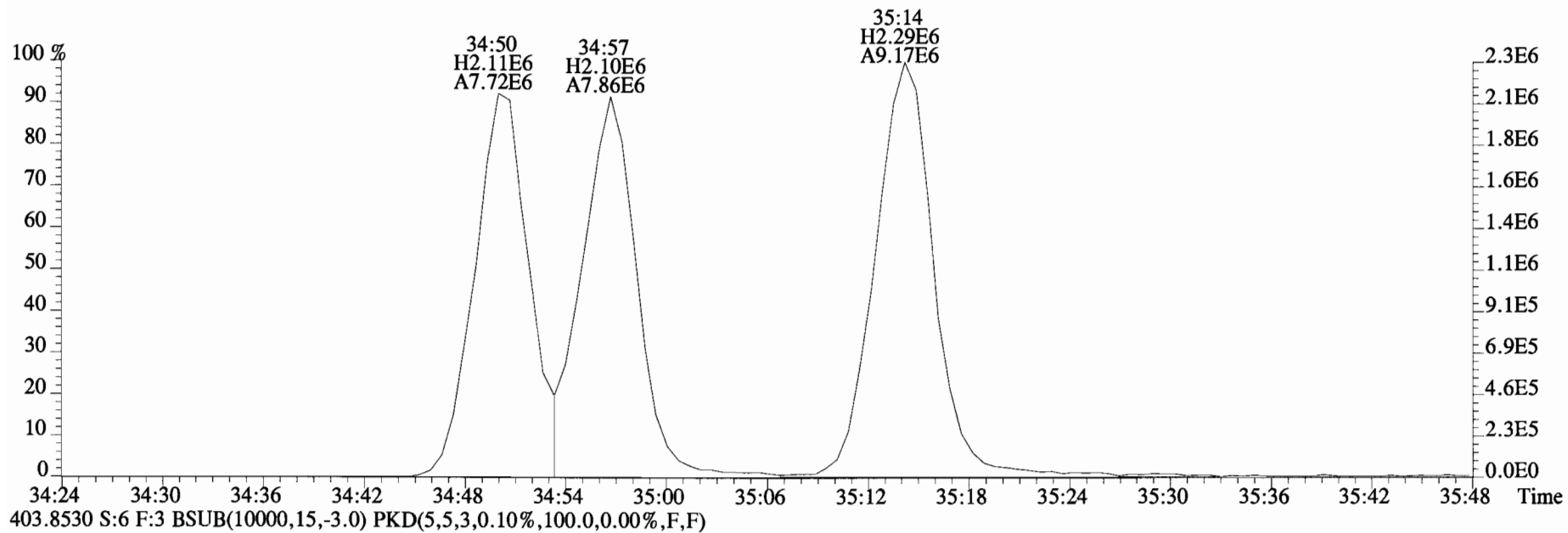
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



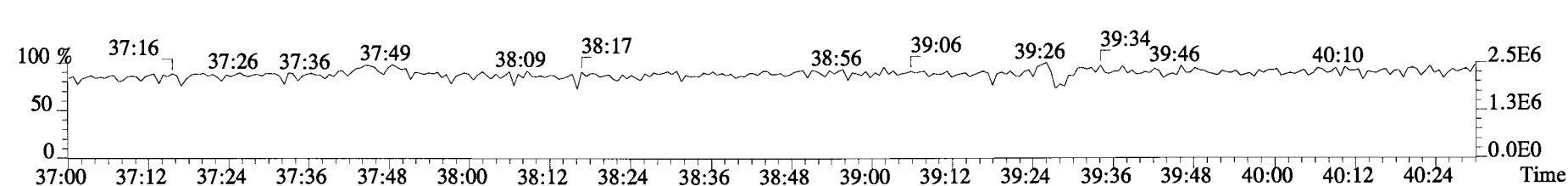
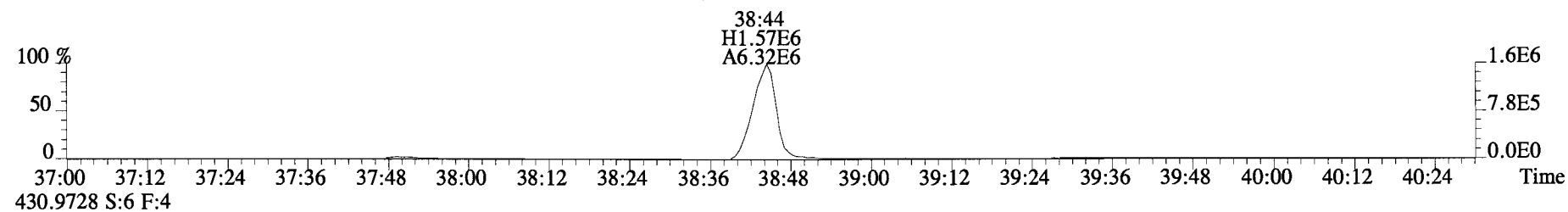
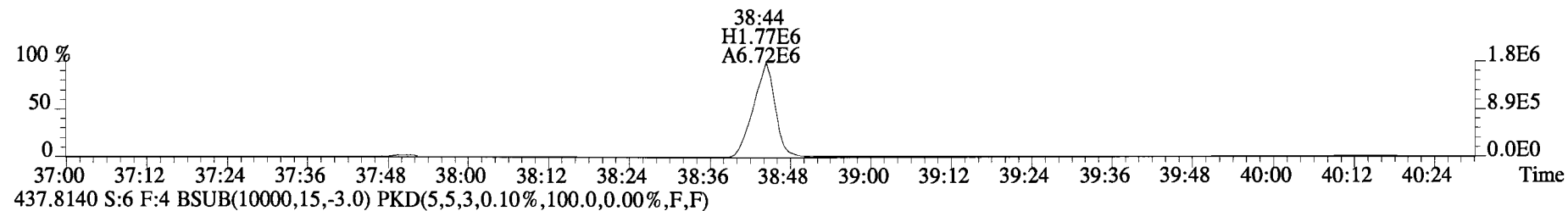
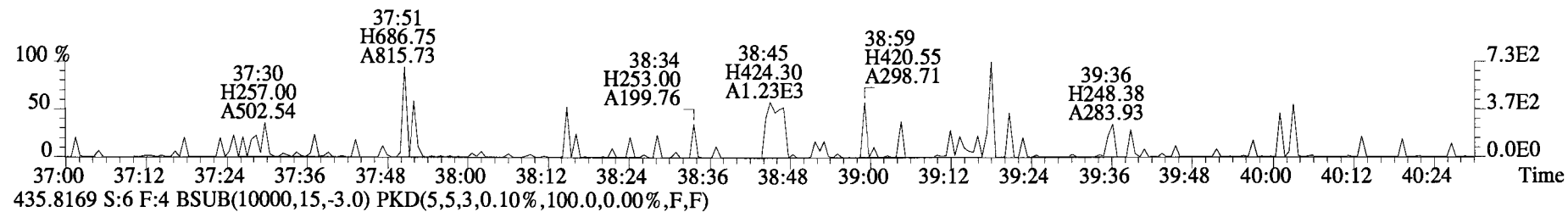
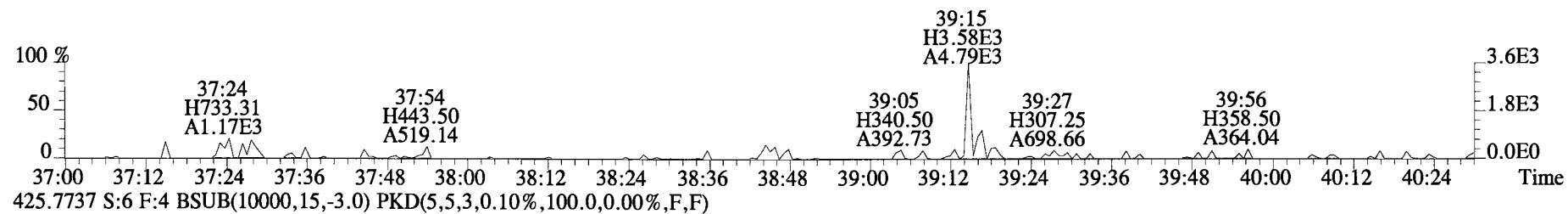
380.9760 S:6 F:3



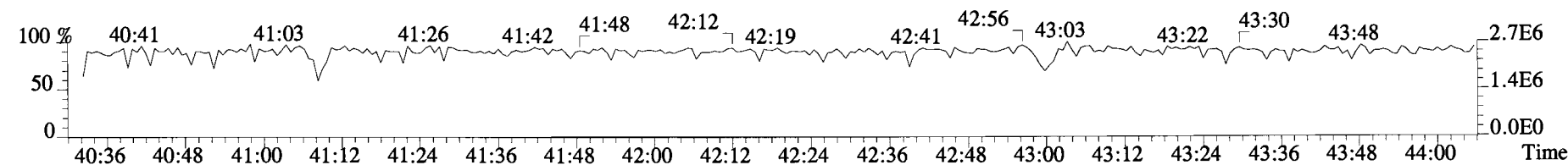
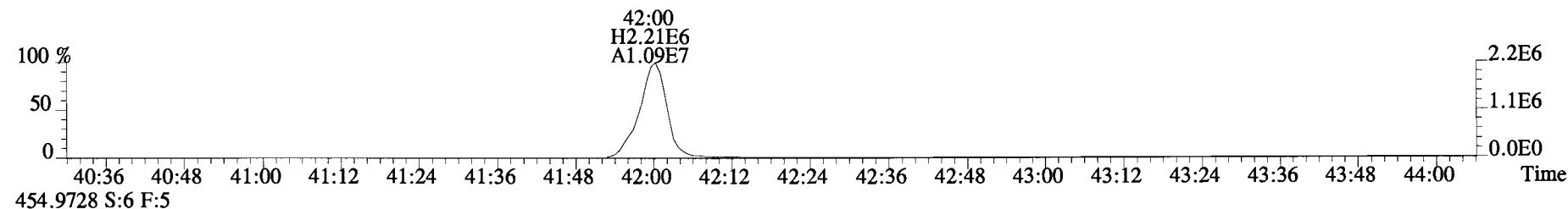
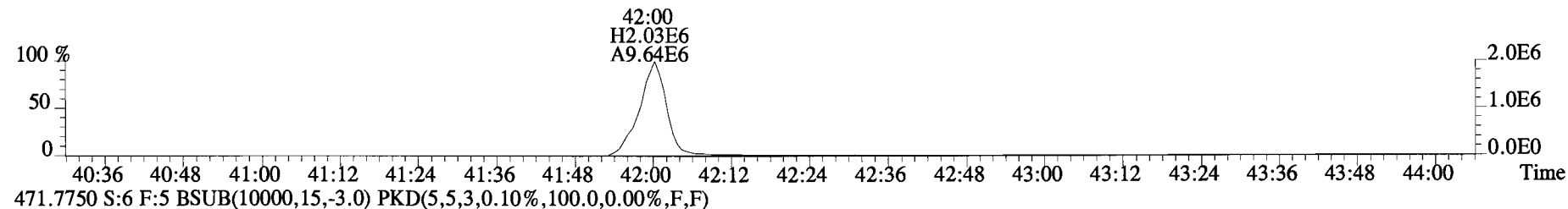
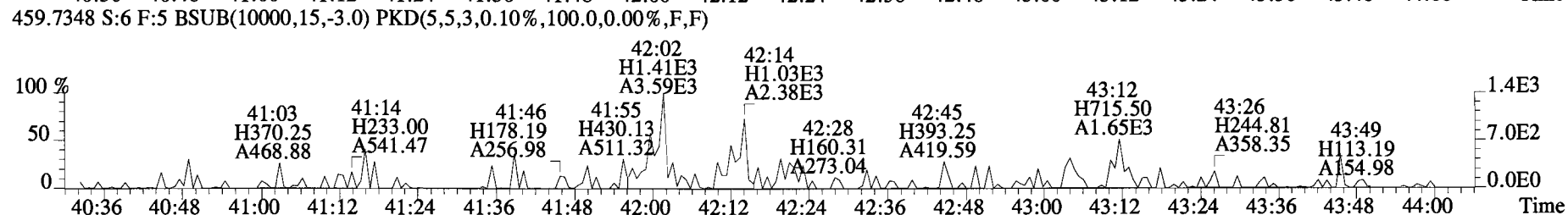
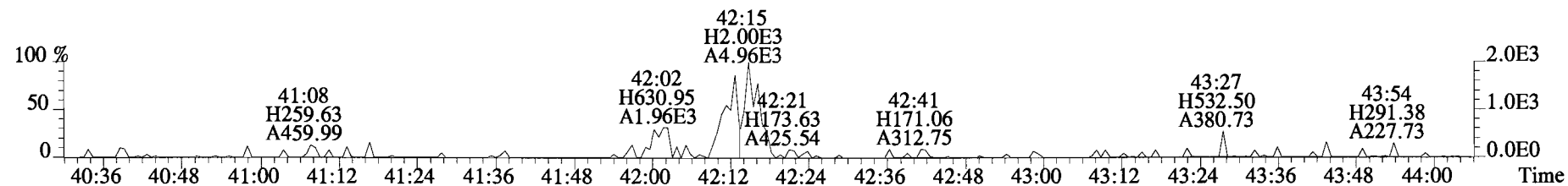
File:141217D1 #1-385 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



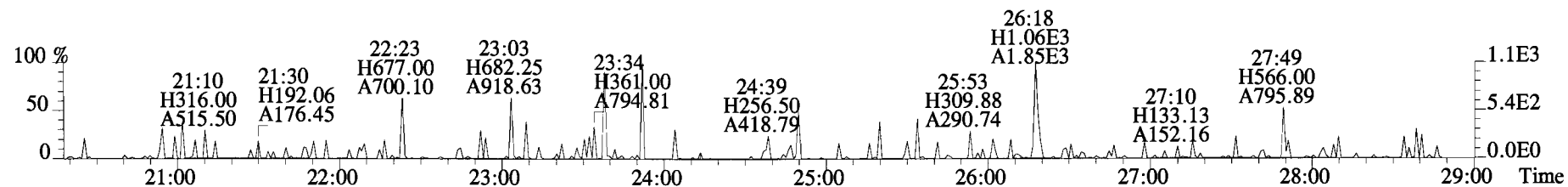
File:141217D1 #1-326 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



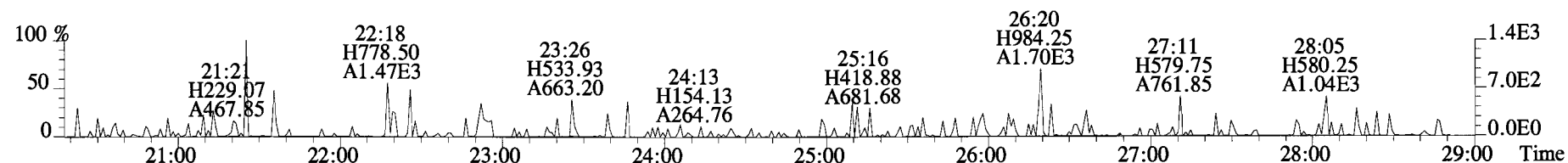
File:141217D1 #1-388 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



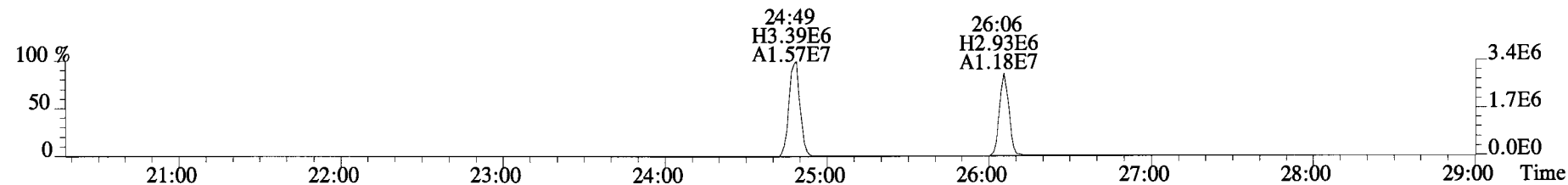
File:141217D1 #1-552 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



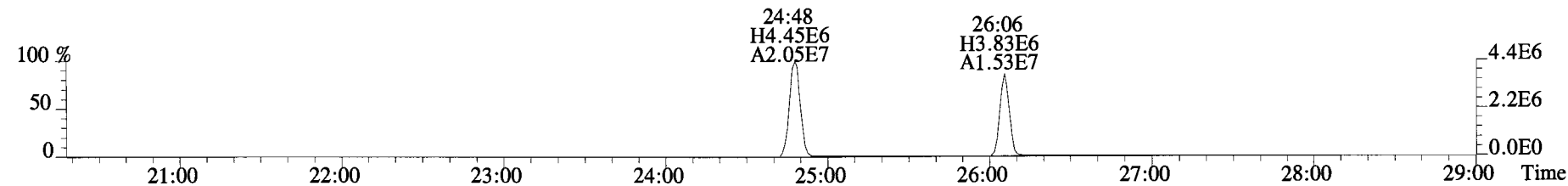
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



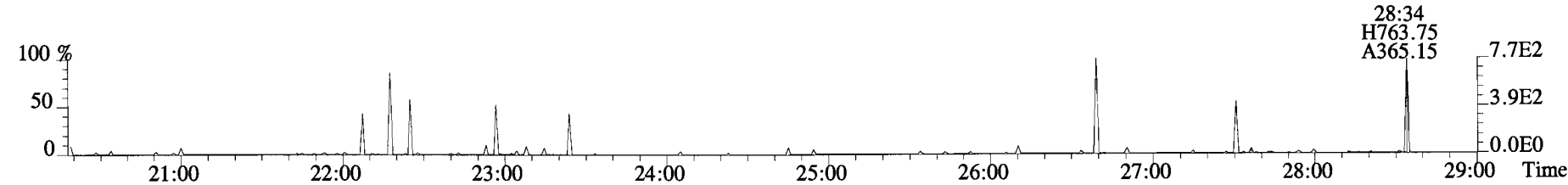
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



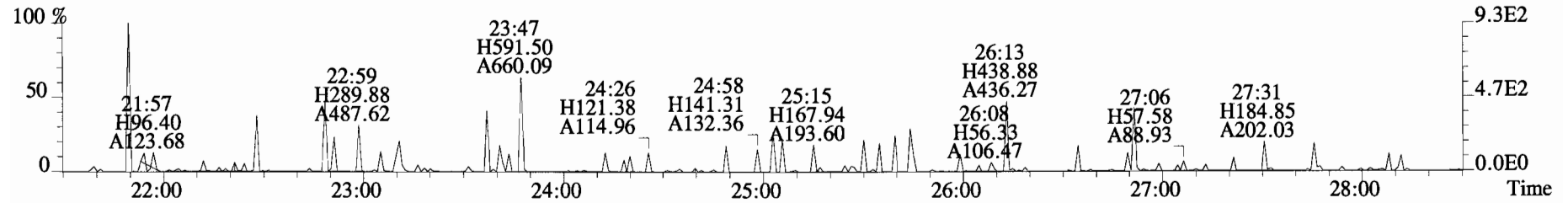
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



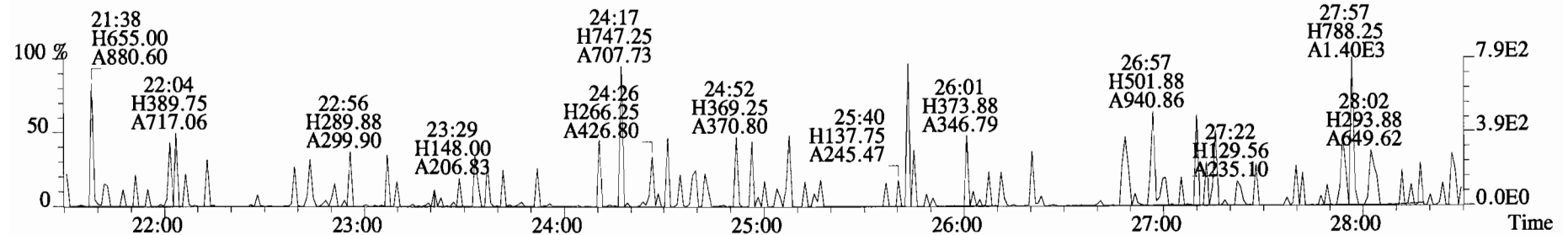
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



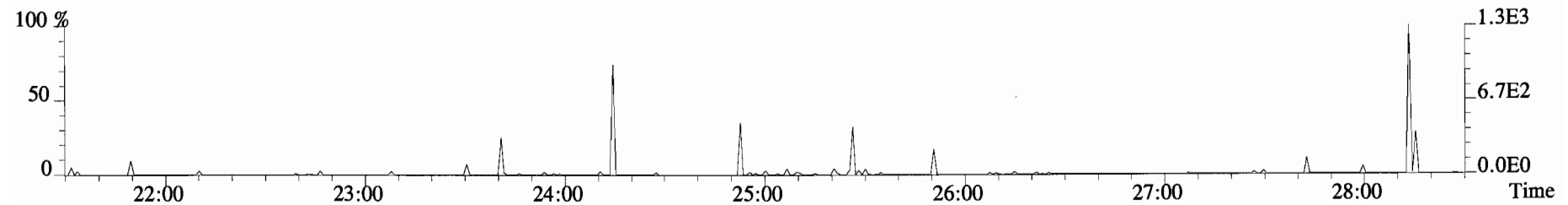
File:141217D1 #1-552 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



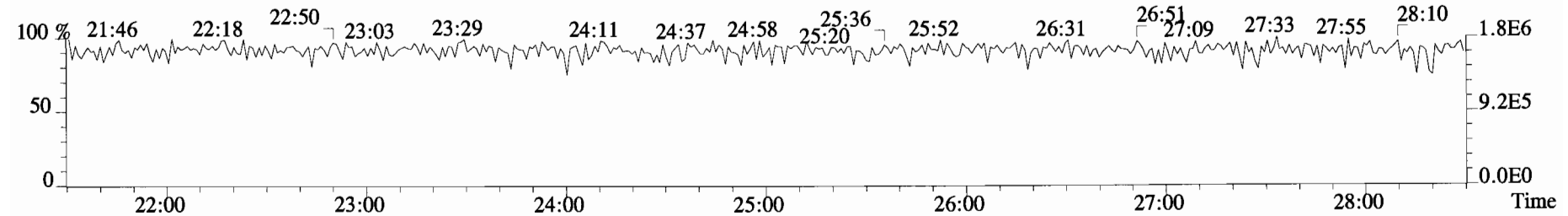
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



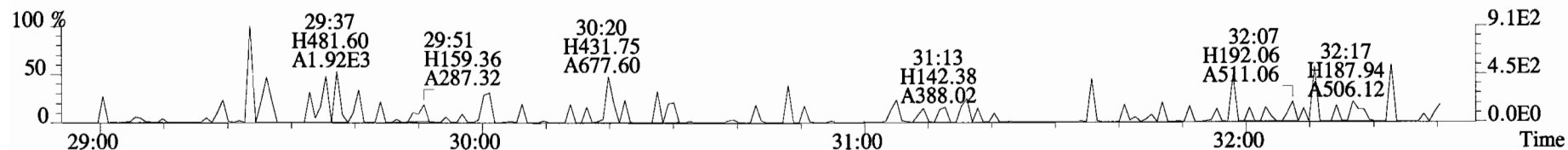
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



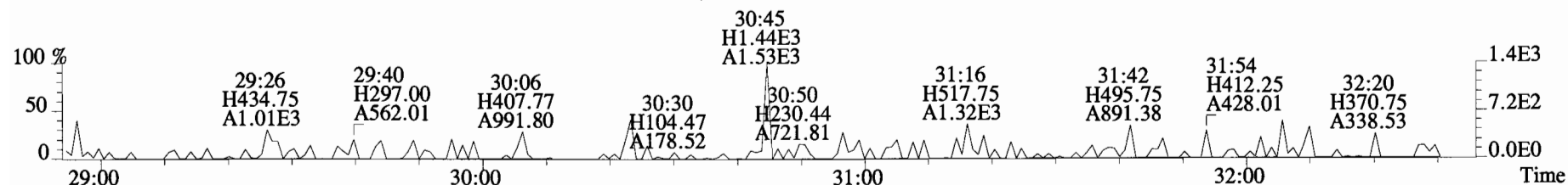
316.9824 S:6



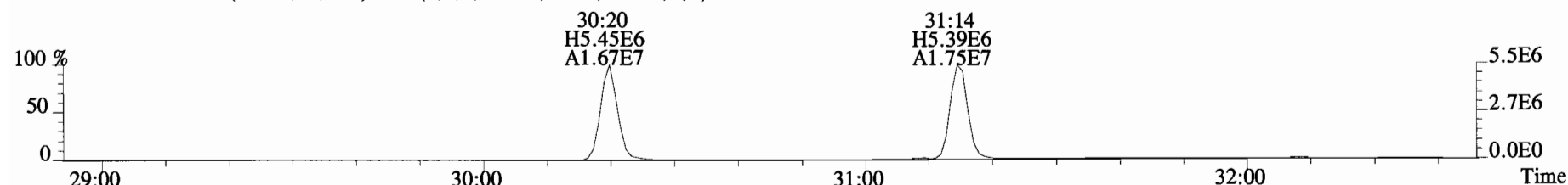
File:141217D1 #1-256 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



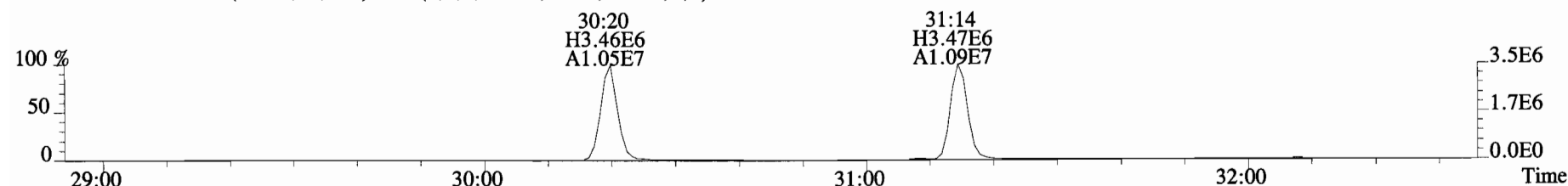
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



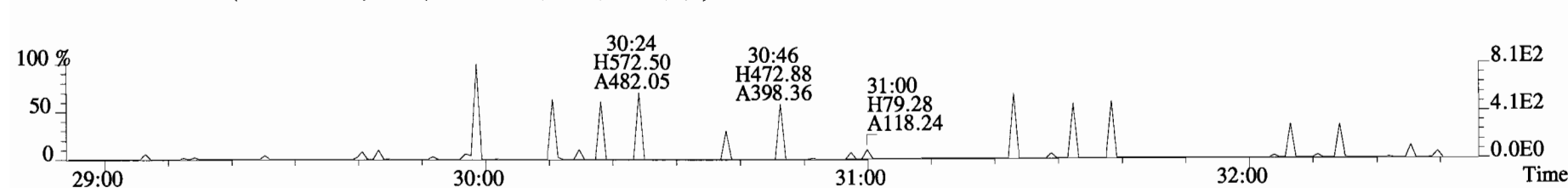
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



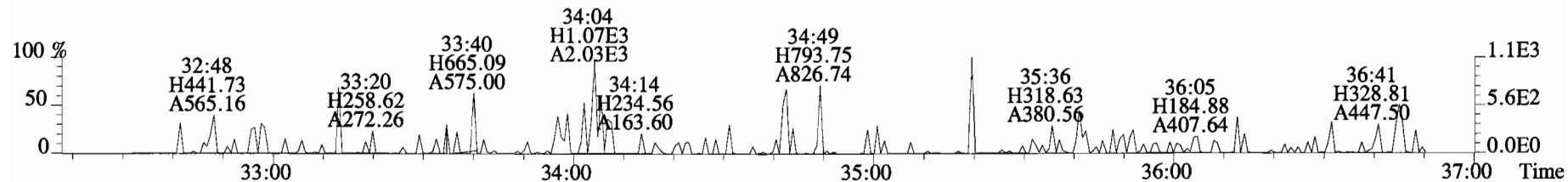
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



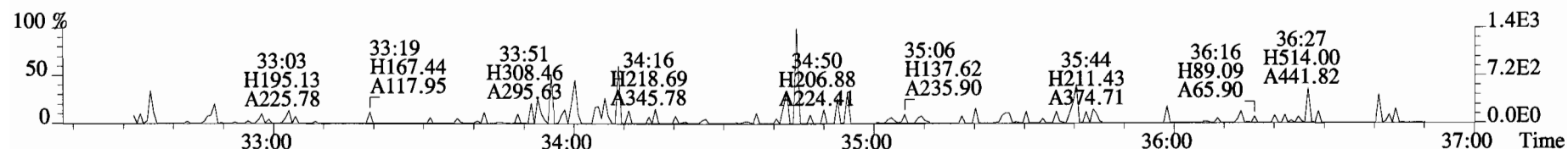
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



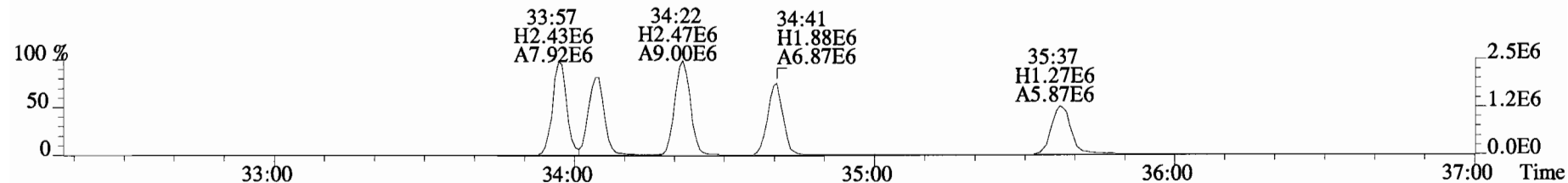
File:141217D1 #1-385 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



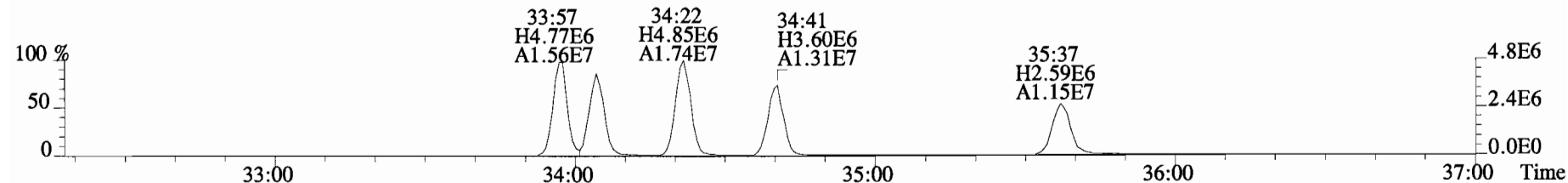
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



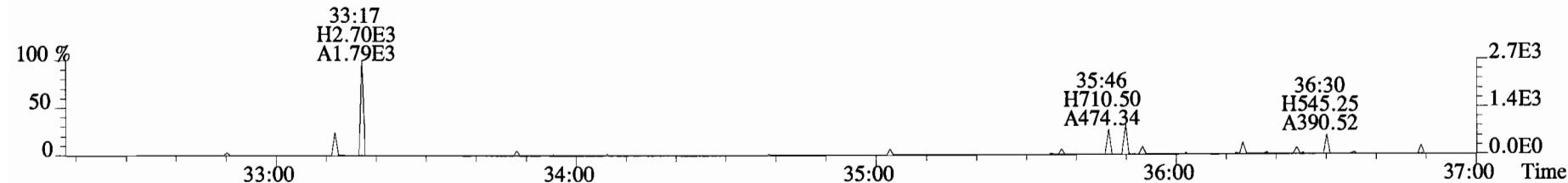
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



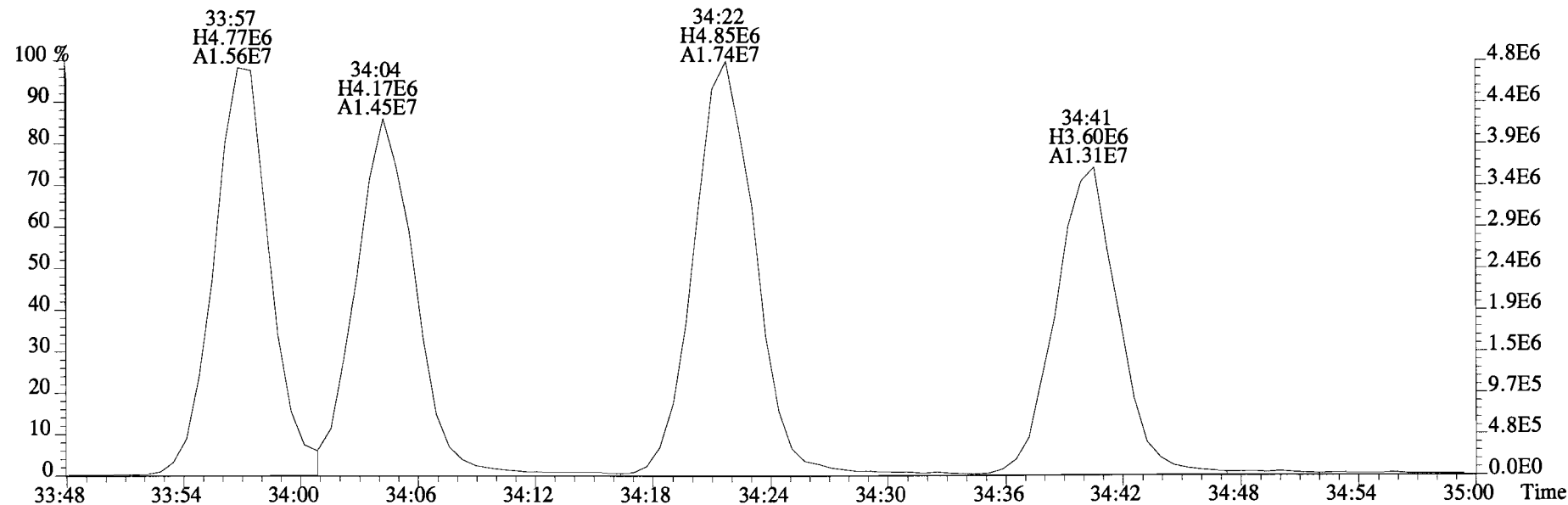
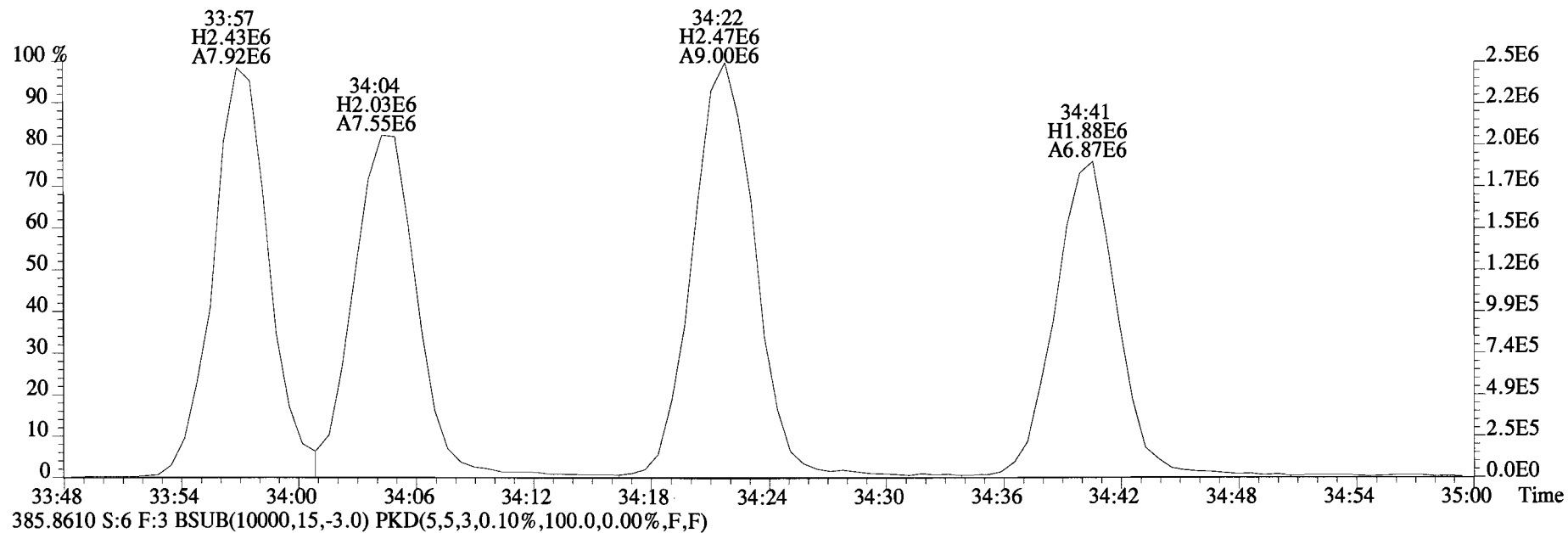
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



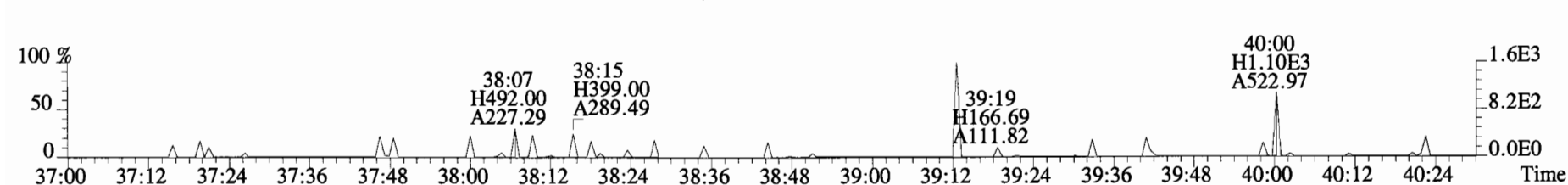
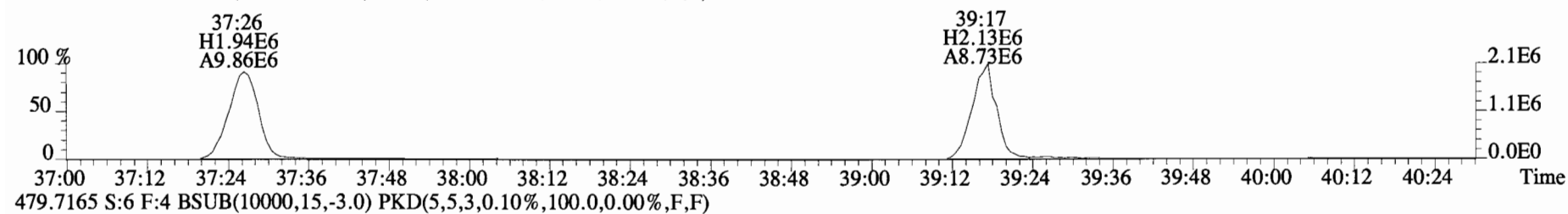
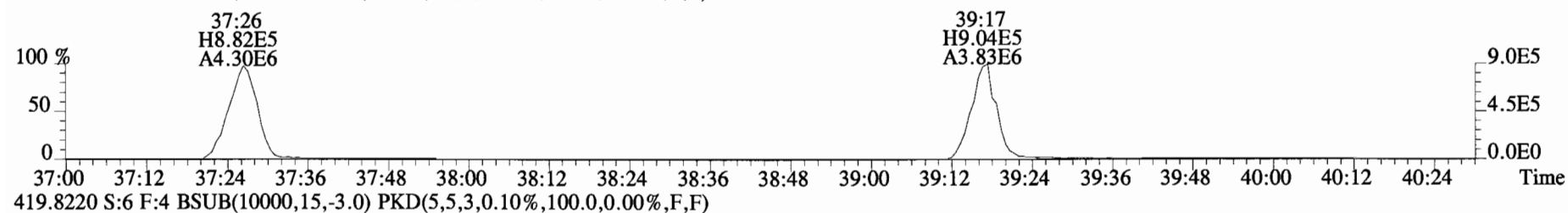
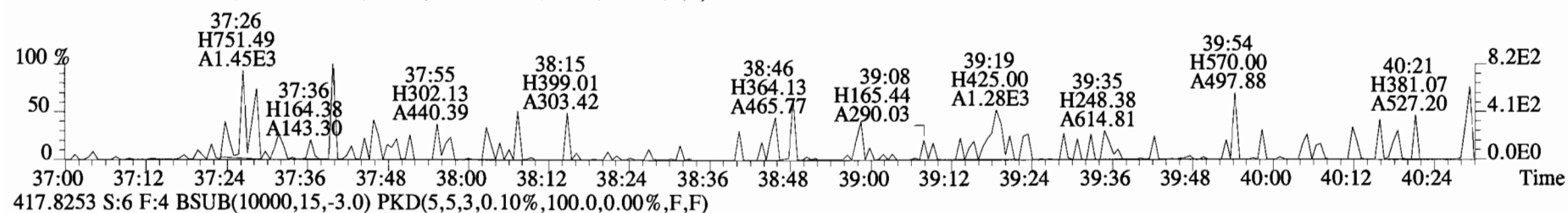
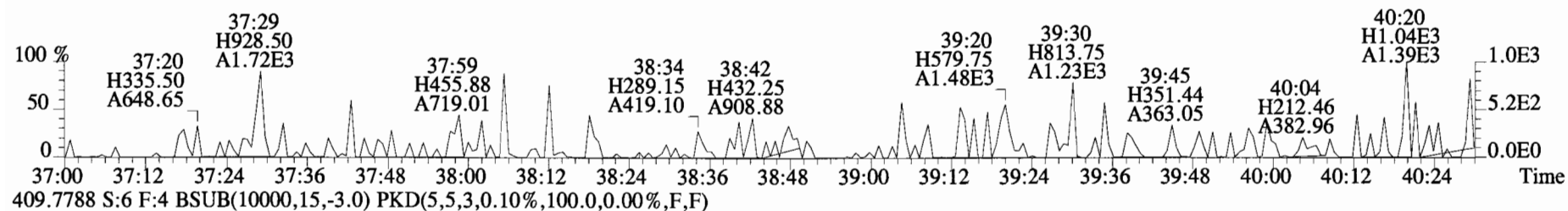
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



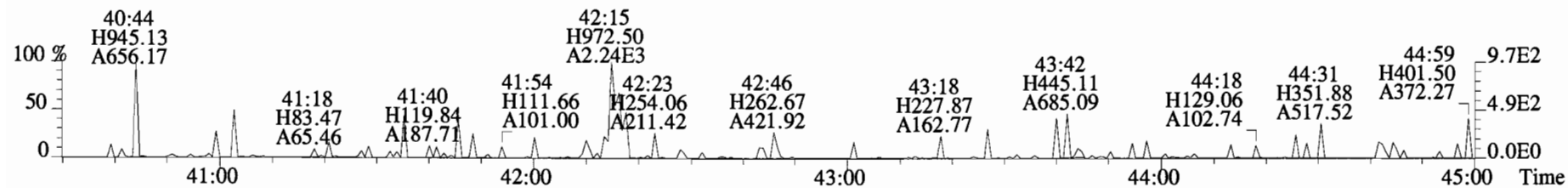
File:141217D1 #1-385 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



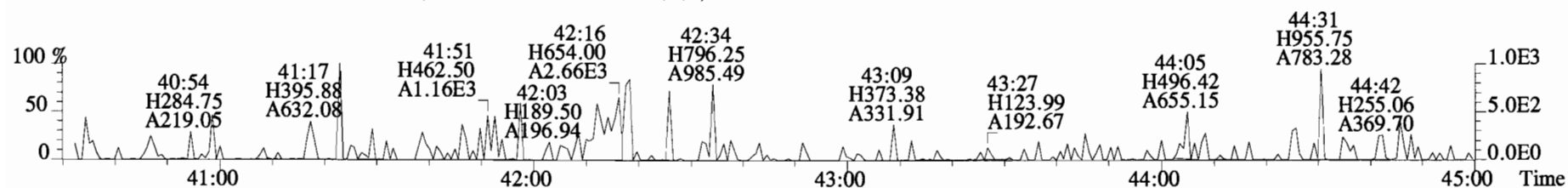
File:141217D1 #1-326 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



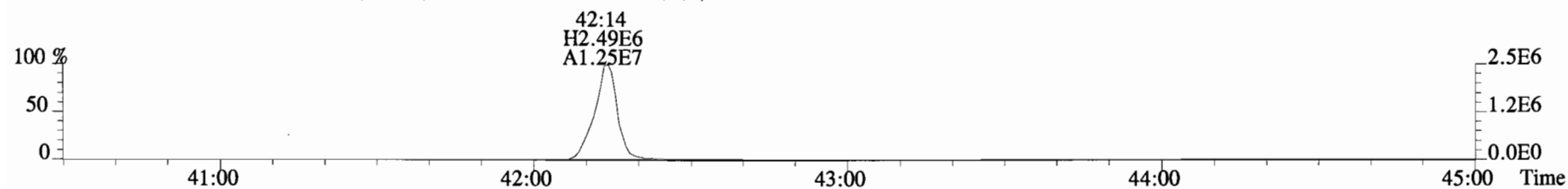
File:141217D1 #1-388 Acq:17-DEC-2014 18:51:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



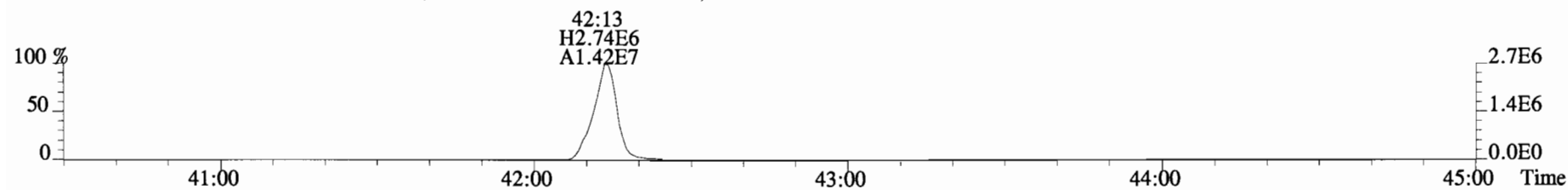
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



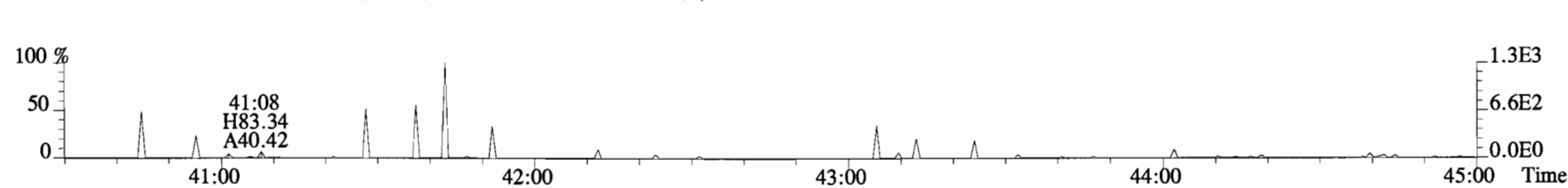
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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: B4L0090-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 141217D1-4

Ext. Date: 12-16-14 Shift: Day Analysis Date: 17-DEC-14 Time: 17:13:51

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	9.09	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	48.5	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	49.3	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	51.4	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	47.1	35.0 - 70.0
OCDD	100	99.6	78.0 - 144.0
2,3,7,8-TCDF	10	8.90	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	47.0	40.0 - 67.0
2,3,4,7,8-PeCDF	50	47.5	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	49.5	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	48.2	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	49.8	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	47.7	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	49.2	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	48.9	39.0 - 69.0
OCDF	100	98.3	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: im

Date: 12/18/14

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B4L0090-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 141217D1-4

Ext. Date: 12-16-14 Shift: Day Analysis Date: 17-DEC-14 Time: 17:13:51

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	79.7	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	75.8	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	77.0	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	76.6	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	78.2	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	79.1	26.0 - 166.0
13C-OCDD	200	107	26.0 - 397.0
13C-2,3,7,8-TCDF	100	79.0	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	75.4	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	76.5	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	86.5	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	79.2	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	73.0	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	79.7	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	73.5	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	71.4	20.0 - 186.0
13C-OCDF	200	120	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	39.5	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: mDate: 12/18/14

Client ID: OPR
Lab ID: B4L0090-BS1

Filename: 141217D1 S:4 Acq:17-DEC-14 17:13:51
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

ConCal: ST141217D1-1
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	2.09e+06	0.76 y	1.18	26:55	1.001	9.0908	*	2.5	*	*	Total Tetra-Dioxins	9.40	9.52	*	*	
1,2,3,7,8-PeCDD	9.50e+06	0.62 y	0.92	31:33	1.001	48.507	*	2.5	*	*	Total Penta-Dioxins	48.5	49.1	*	*	
1,2,3,4,7,8-HxCDD	8.05e+06	1.24 y	1.09	34:51	1.000	49.290	*	2.5	*	*	Total Hexa-Dioxins	150	151	*	*	
1,2,3,6,7,8-HxCDD	8.31e+06	1.25 y	1.07	34:58	1.000	51.362	*	2.5	*	*	Total Hepta-Dioxins	47.7	48.6	*	*	
1,2,3,7,8,9-HxCDD	8.22e+06	1.26 y	0.93	35:15	1.000	49.087	*	2.5	*	*	Total Tetra-Furans	9.05	9.31	*	*	
1,2,3,4,6,7,8-HpCDD	7.21e+06	1.05 y	1.12	38:45	1.000	47.148	*	2.5	*	*	Total Penta-Furans	95.840	96.660	*	*	
OCDD	1.07e+07	0.88 y	0.95	42:01	1.000	99.560	*	2.5	*	*	Total Hexa-Furans	196	196	*	*	
											Total Hepta-Furans	98.2	100	*	*	
2,3,7,8-TCDF	2.72e+06	0.79 y	1.08	26:07	1.001	8.8993	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.43e+07	1.64 y	1.09	30:21	1.000	46.994	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.43e+07	1.61 y	1.04	31:16	1.000	47.510	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.59e+07	1.29 y	1.39	33:58	1.000	49.473	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.42e+07	1.29 y	1.26	34:06	1.001	48.179	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.31e+07	1.29 y	1.30	34:42	1.001	49.848	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.04e+07	1.23 y	1.19	35:39	1.001	47.650	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.12e+07	1.08 y	1.62	37:28	1.001	49.165	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.01e+07	1.11 y	1.53	39:18	1.000	48.863	*	2.5	*	*						
OCDF	1.53e+07	0.93 y	1.10	42:15	1.000	98.315	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.94e+07	0.81 y	1.07	26:54	1.022	79.695					79.7					
IS 13C-1,2,3,7,8-PeCDD	2.13e+07	0.63 y	1.24	31:32	1.199	75.830					75.8					
IS 13C-1,2,3,4,7,8-HxCDD	1.50e+07	1.24 y	0.72	34:51	1.014	76.973					77.0					
IS 13C-1,2,3,6,7,8-HxCDD	1.52e+07	1.23 y	0.74	34:57	1.017	76.578					76.6					
IS 13C-1,2,3,7,8,9-HxCDD	1.80e+07	1.25 y	0.86	35:15	1.025	78.152					78.2					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.37e+07	1.06 y	0.64	38:44	1.127	79.095					79.1					
IS 13C-OCDD	2.25e+07	0.87 y	0.78	41:60	1.222	106.84					53.4					
IS 13C-2,3,7,8-TCDF	2.84e+07	0.79 y	0.92	26:06	0.992	79.017					79.0					
IS 13C-1,2,3,7,8-PeCDF	2.79e+07	1.59 y	0.95	30:20	1.153	75.366					75.4					
IS 13C-2,3,4,7,8-PeCDF	2.89e+07	1.61 y	0.97	31:15	1.188	76.455					76.5					
IS 13C-1,2,3,4,7,8-HxCDF	2.31e+07	0.51 y	0.99	33:57	0.988	86.537					86.5					
IS 13C-1,2,3,6,7,8-HxCDF	2.34e+07	0.51 y	1.10	34:05	0.992	79.214					79.2					
IS 13C-2,3,4,6,7,8-HxCDF	2.03e+07	0.51 y	1.03	34:40	1.009	73.036					73.0					
IS 13C-1,2,3,7,8,9-HxCDF	1.84e+07	0.50 y	0.86	35:38	1.037	79.713					79.7					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.41e+07	0.43 y	0.71	37:26	1.089	73.454					73.5					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.44 y	0.71	39:17	1.143	71.410					71.4					
IS 13C-OCDF	2.83e+07	0.91 y	0.87	42:14	1.229	120.34					60.2					
C/Up 37Cl-2,3,7,8-TCDD	1.09e+07		1.21	26:56	1.023	39.486					98.7					
											Integrations					
											by					
RS/RT 13C-1,2,3,4-TCDD	2.27e+07	0.81 y	1.00	26:19	*	100.00					Analyst: <u>mi</u>					
RS 13C-1,2,3,4-TCDF	3.89e+07	0.78 y	1.00	24:48	*	100.00					Analyst: <u>[Signature]</u>					
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.69e+07	0.52 y	1.00	34:22	*	100.00					Date: <u>12/14/14</u>					
											Date: <u>12/19/14</u>					

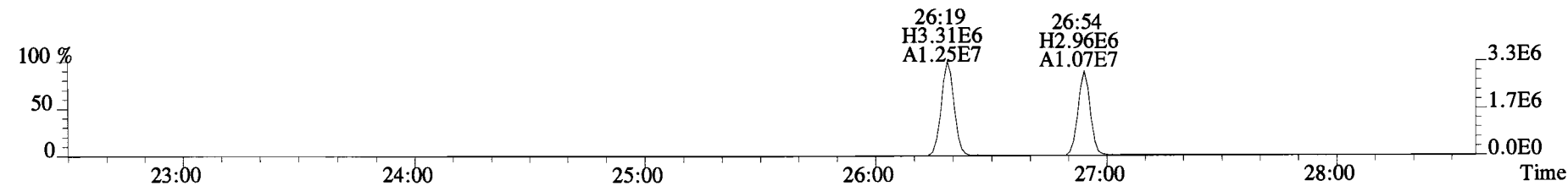
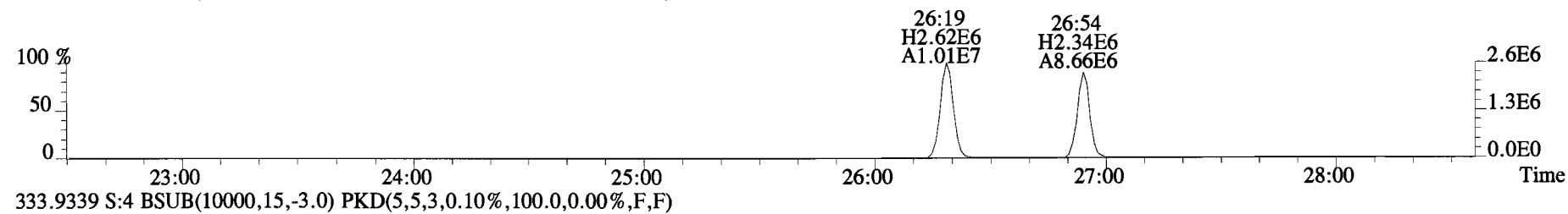
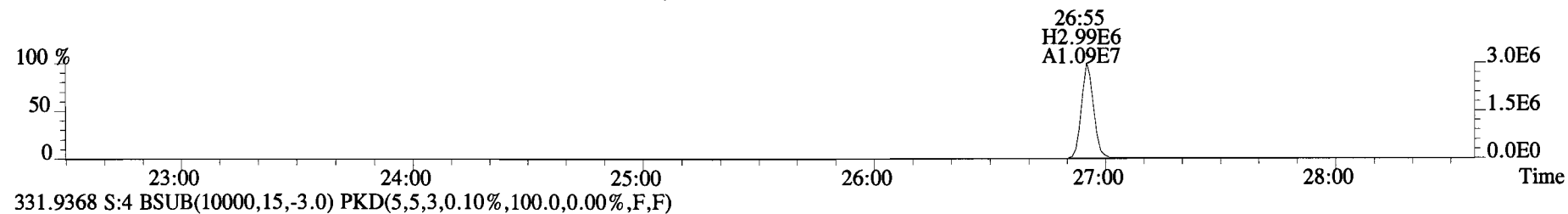
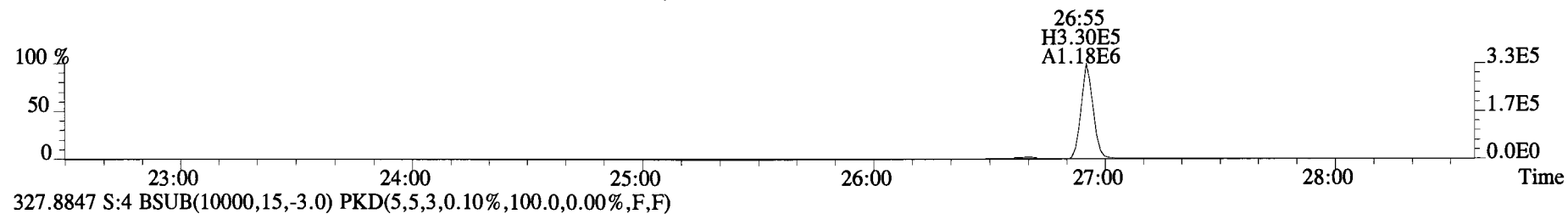
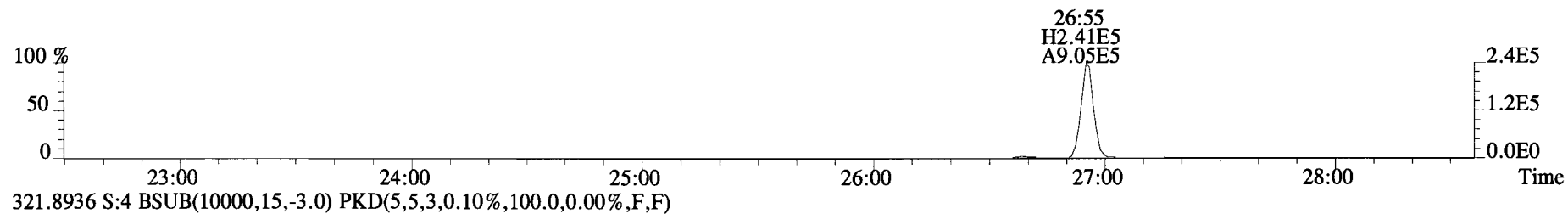
Client ID: OPR
Lab ID: B4L0090-BS1

Filename: 141217D1 S:4 Acq:17-DEC-14 17:13:51
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

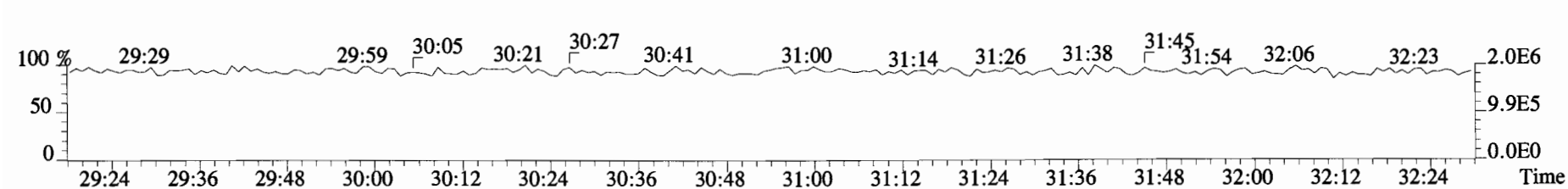
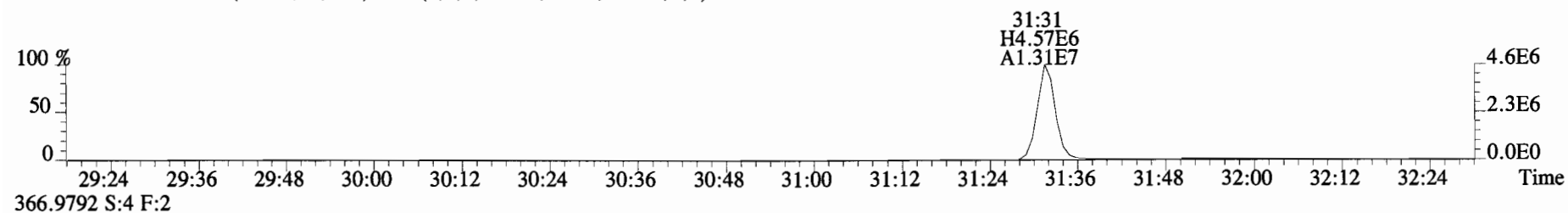
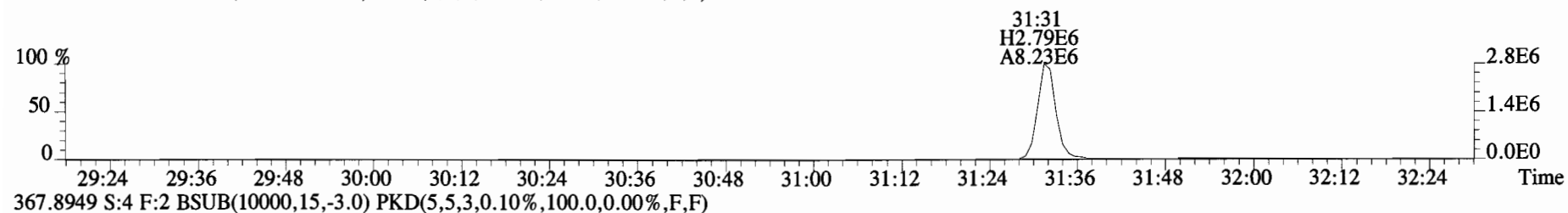
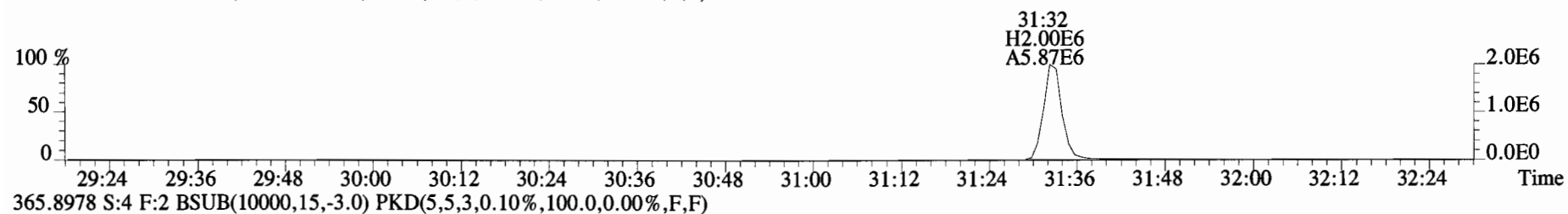
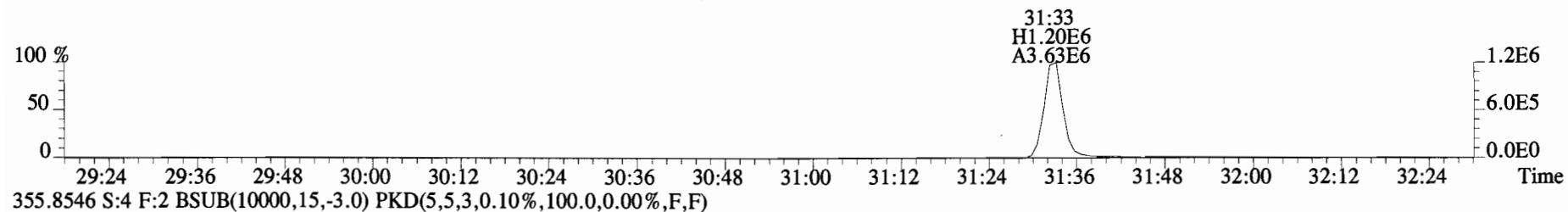
ConCal: ST141217D1-1
EndCAL: NA

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	1.18	26:55	1.001	181.82	*	2.5	*	*	Total Tetra-Dioxins	188	190	*	*	
1,2,3,7,8-PeCDD	9.50e+06	0.62 y	0.92	31:33	1.001	970.15	*	2.5	*	*	Total Penta-Dioxins	970	982	*	*	
1,2,3,4,7,8-HxCDD	8.05e+06	1.24 y	1.09	34:51	1.000	985.80	*	2.5	*	*	Total Hexa-Dioxins	3000	3010	*	*	
1,2,3,6,7,8-HxCDD	8.31e+06	1.25 y	1.07	34:58	1.000	1027.2	*	2.5	*	*	Total Hepta-Dioxins	955	971	*	*	
1,2,3,7,8,9-HxCDD	8.22e+06	1.26 y	0.93	35:15	1.000	981.74	*	2.5	*	*	Total Tetra-Furans	181	186	*	*	
1,2,3,4,6,7,8-HpCDD	7.21e+06	1.05 y	1.12	38:45	1.000	942.96	*	2.5	*	*	Total Penta-Furans	1916.8	1933.2	*	*	
OCDD	1.07e+07	0.88 y	0.95	42:01	1.000	1991.2	*	2.5	*	*	Total Hexa-Furans	3910	3920	*	*	
											Total Hepta-Furans	1960	2010	*	*	
2,3,7,8-TCDF	2.72e+06	0.79 y	1.08	26:07	1.001	177.99	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.43e+07	1.64 y	1.09	30:21	1.000	939.88	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.43e+07	1.61 y	1.04	31:16	1.000	950.20	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.59e+07	1.29 y	1.39	33:58	1.000	989.46	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.42e+07	1.29 y	1.26	34:06	1.001	963.59	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.31e+07	1.29 y	1.30	34:42	1.001	996.95	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.04e+07	1.23 y	1.19	35:39	1.001	953.01	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.12e+07	1.08 y	1.62	37:28	1.001	983.31	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.01e+07	1.11 y	1.53	39:18	1.000	977.25	*	2.5	*	*						
OCDF	1.53e+07	0.93 y	1.10	42:15	1.000	1966.3	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.94e+07	0.81 y	1.07	26:54	1.022	1593.9					79.7					
IS 13C-1,2,3,7,8-PeCDD	2.13e+07	0.63 y	1.24	31:32	1.199	1516.6					75.8					
IS 13C-1,2,3,4,7,8-HxCDD	1.50e+07	1.24 y	0.72	34:51	1.014	1539.5					77.0					
IS 13C-1,2,3,6,7,8-HxCDD	1.52e+07	1.23 y	0.74	34:57	1.017	1531.6					76.6					
IS 13C-1,2,3,7,8,9-HxCDD	1.80e+07	1.25 y	0.86	35:15	1.025	1563.0					78.2					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.37e+07	1.06 y	0.64	38:44	1.127	1581.9					79.1					
IS 13C-OCDD	2.25e+07	0.87 y	0.78	41:60	1.222	2136.8					53.4					
IS 13C-2,3,7,8-TCDF	2.84e+07	0.79 y	0.92	26:06	0.992	1580.3					79.0					
IS 13C-1,2,3,7,8-PeCDF	2.79e+07	1.59 y	0.95	30:20	1.153	1507.3					75.4					
IS 13C-2,3,4,7,8-PeCDF	2.89e+07	1.61 y	0.97	31:15	1.188	1529.1					76.5					
IS 13C-1,2,3,4,7,8-HxCDF	2.31e+07	0.51 y	0.99	33:57	0.988	1730.7					86.5					
IS 13C-1,2,3,6,7,8-HxCDF	2.34e+07	0.51 y	1.10	34:05	0.992	1584.3					79.2					
IS 13C-2,3,4,6,7,8-HxCDF	2.03e+07	0.51 y	1.03	34:40	1.009	1460.7					73.0					
IS 13C-1,2,3,7,8,9-HxCDF	1.84e+07	0.50 y	0.86	35:38	1.037	1594.3					79.7					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.41e+07	0.43 y	0.71	37:26	1.089	1469.1					73.5					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.44 y	0.71	39:17	1.143	1428.2					71.4					
IS 13C-OCDF	2.83e+07	0.91 y	0.87	42:14	1.229	2406.8					60.2					
C/Up 37Cl-2,3,7,8-TCDD	1.09e+07		1.21	26:56	1.023	789.72					98.7					
											Integrations					
											by					
RS/RT 13C-1,2,3,4-TCDD	2.27e+07	0.81 y	1.00	26:19	*	2000.0					Analyst: <u>mas</u>					
RS 13C-1,2,3,4-TCDF	3.89e+07	0.78 y	1.00	24:48	*	2000.0										
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.69e+07	0.52 y	1.00	34:22	*	2000.0										
											Date: <u>12/15/14</u>					

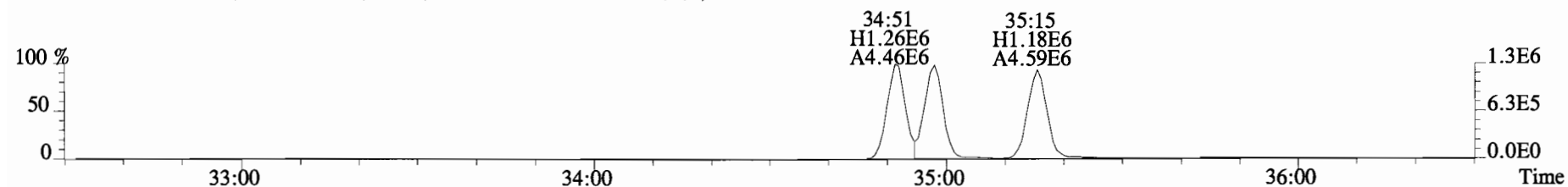
File:141217D1 #1-551 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



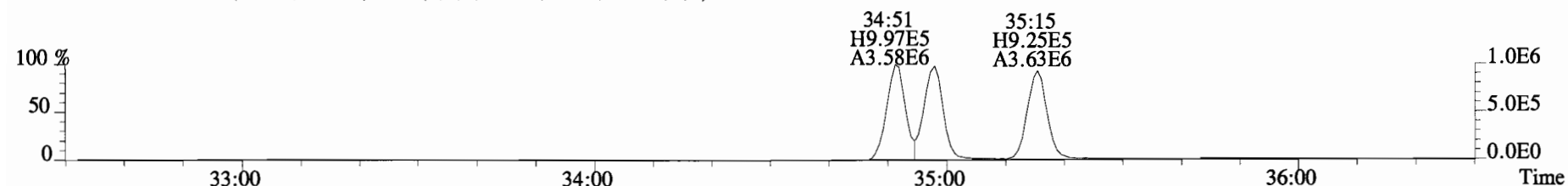
File:141217D1 #1-257 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



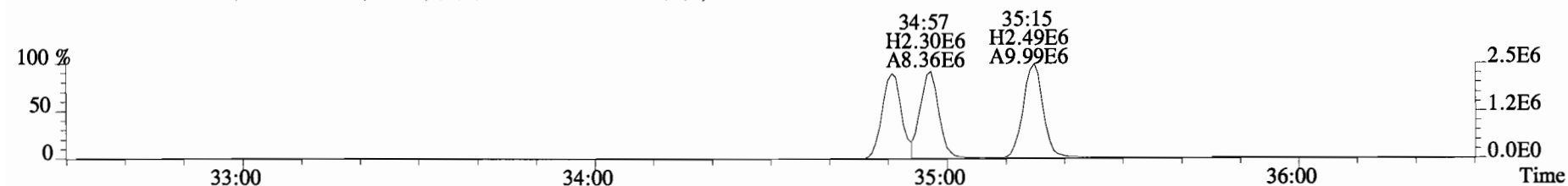
File:141217D1 #1-385 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



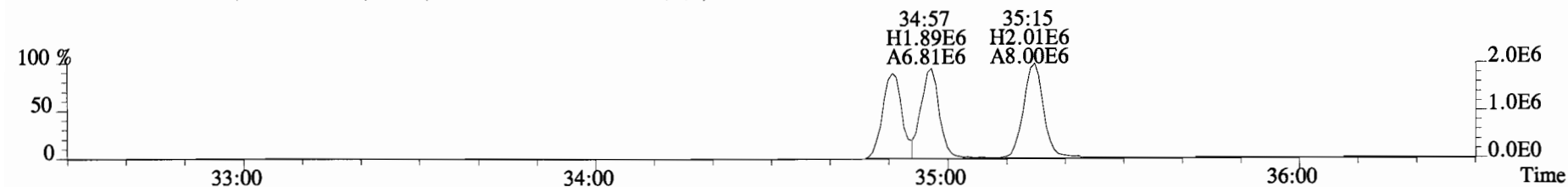
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



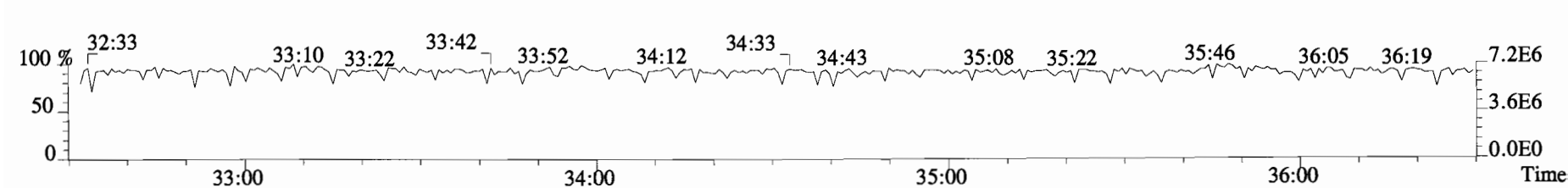
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



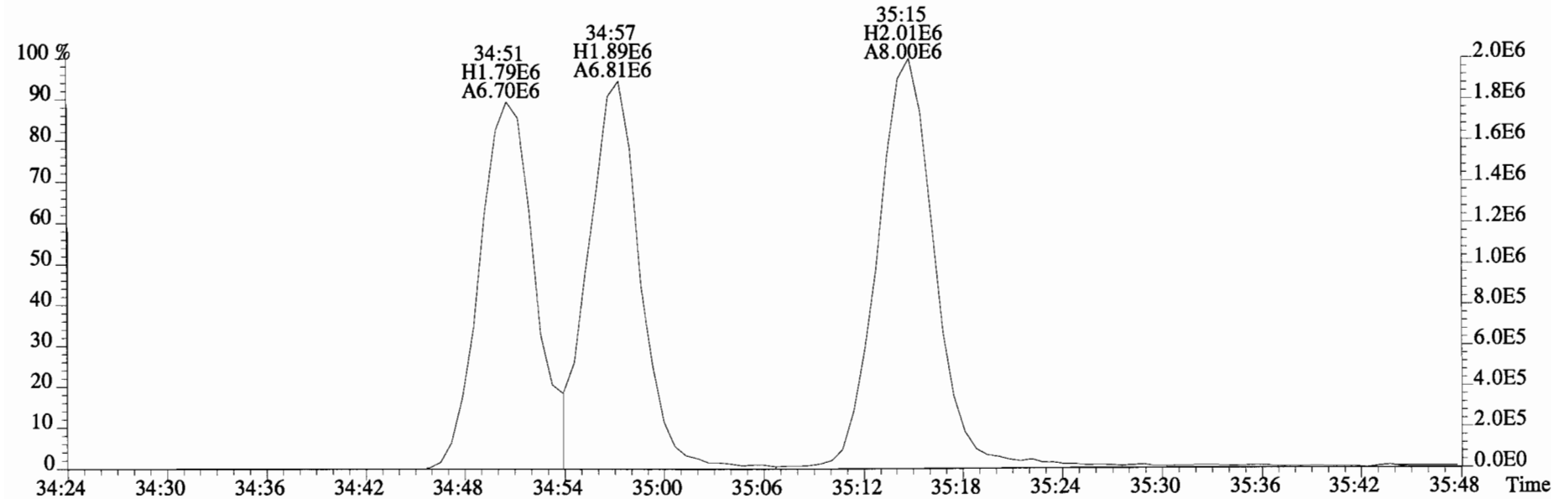
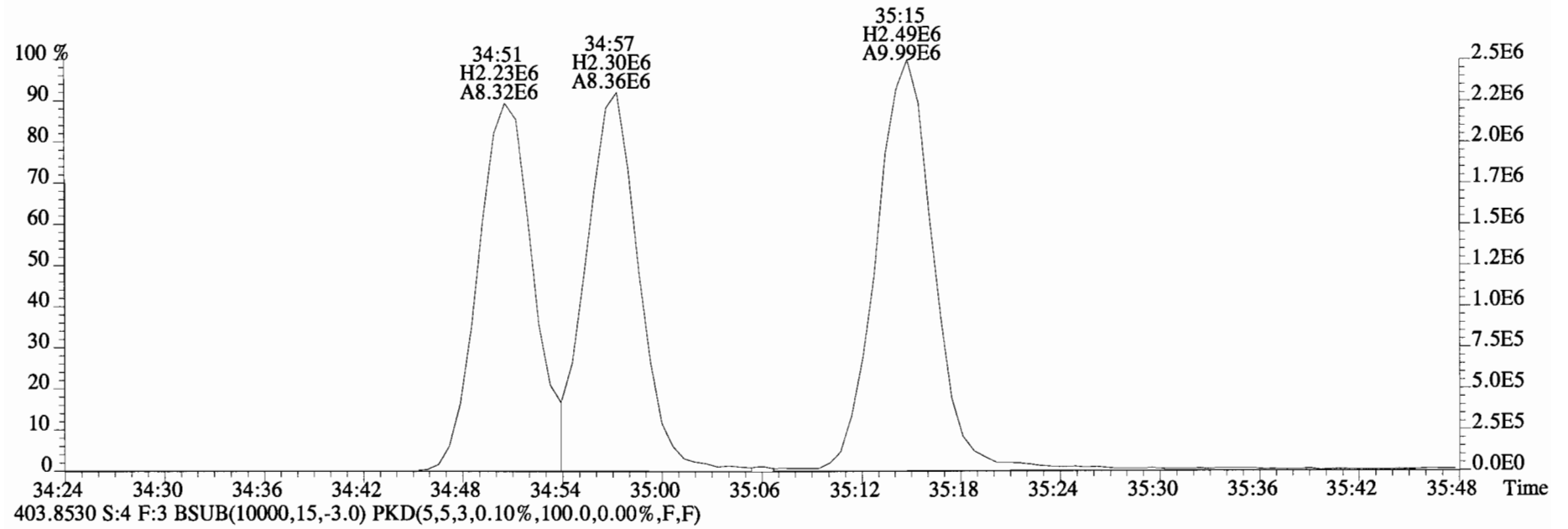
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



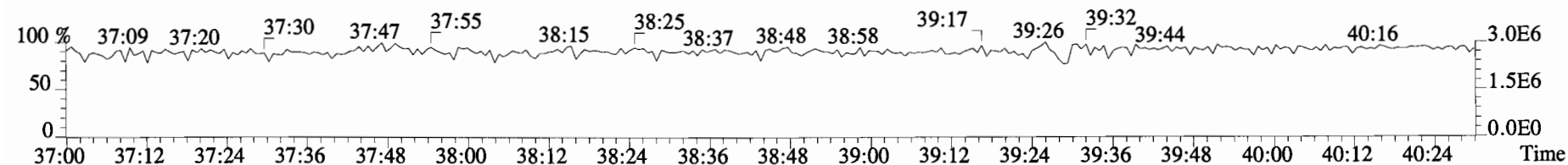
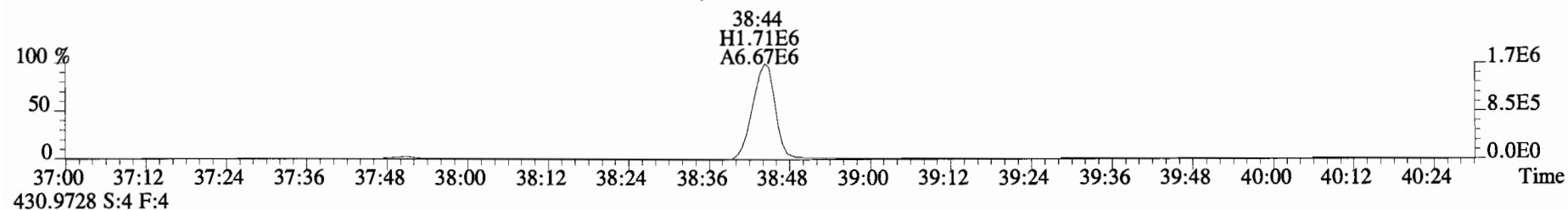
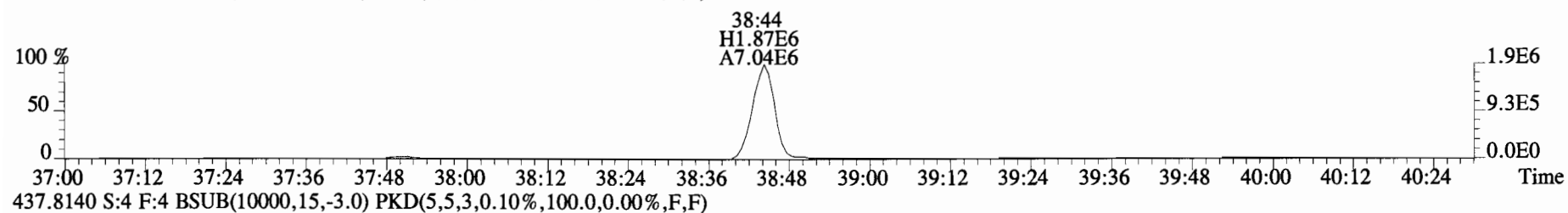
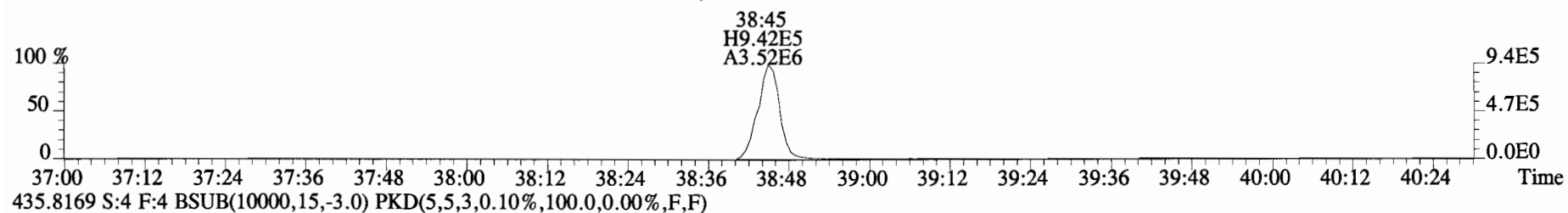
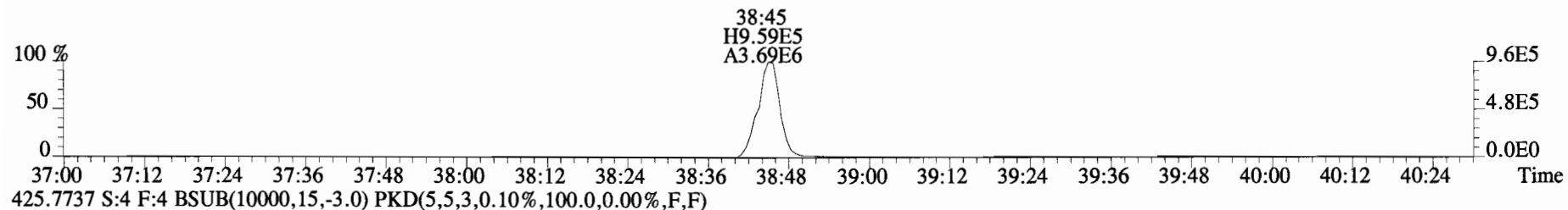
380.9760 S:4 F:3



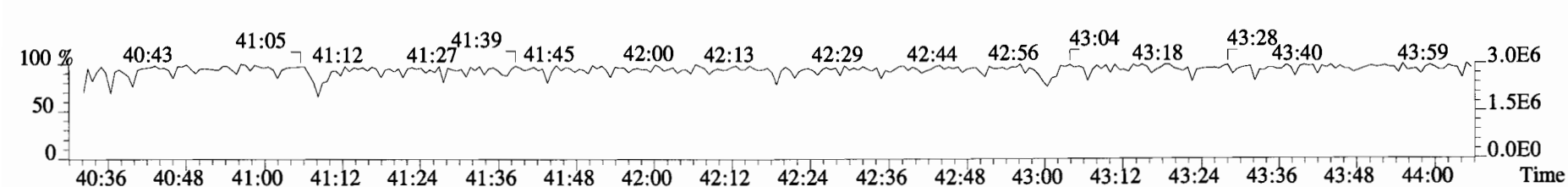
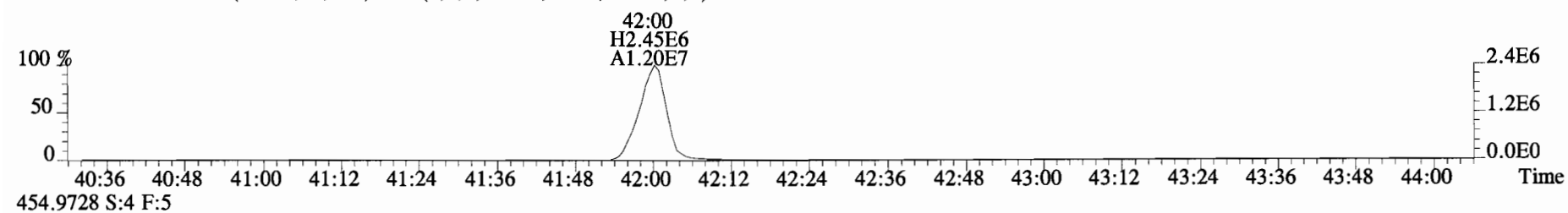
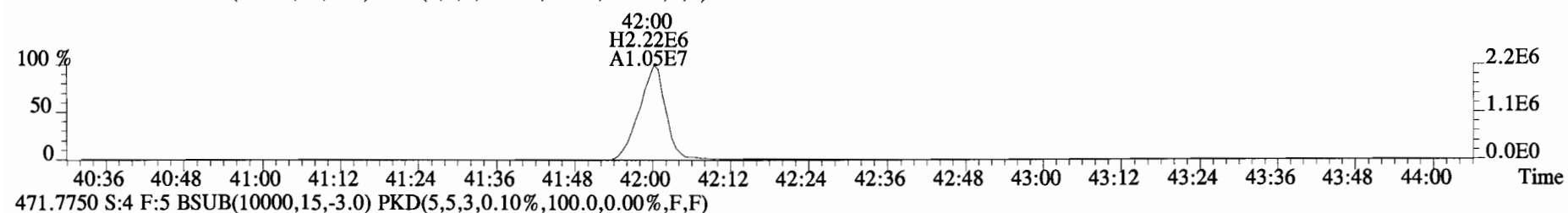
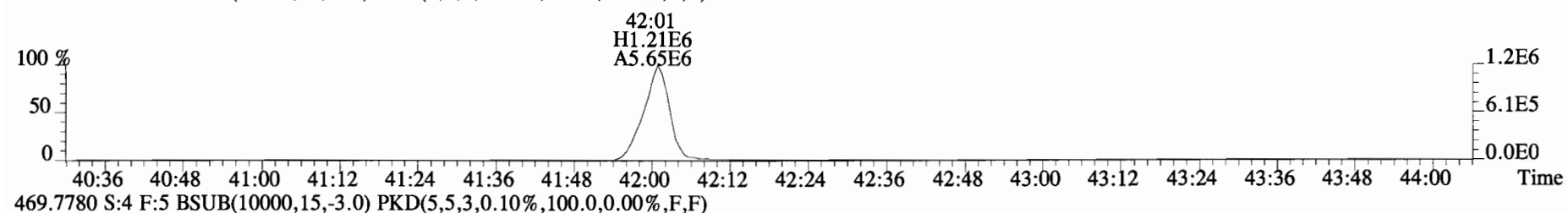
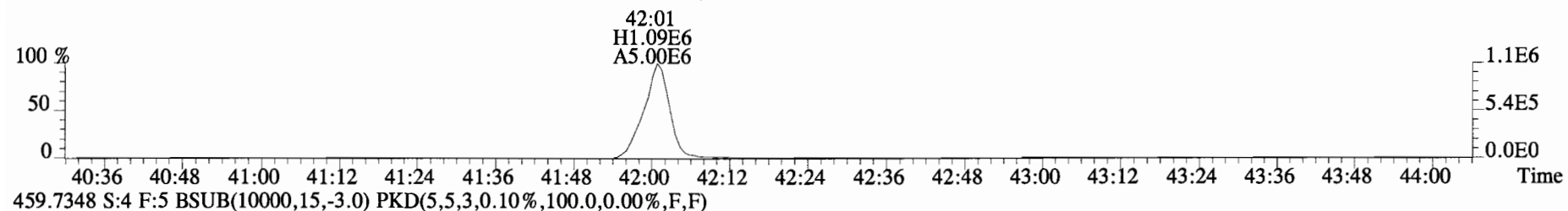
File:141217D1 #1-385 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



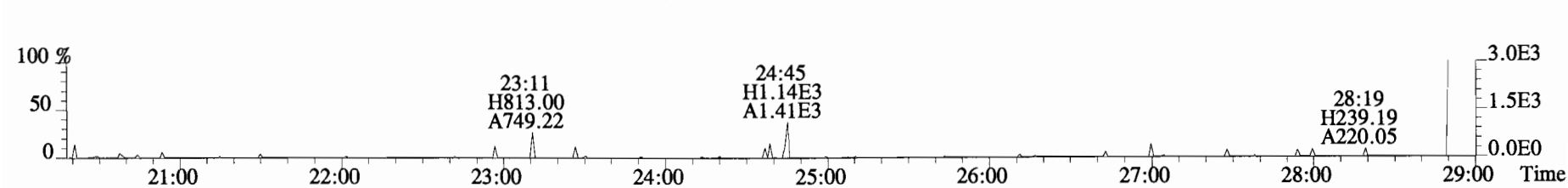
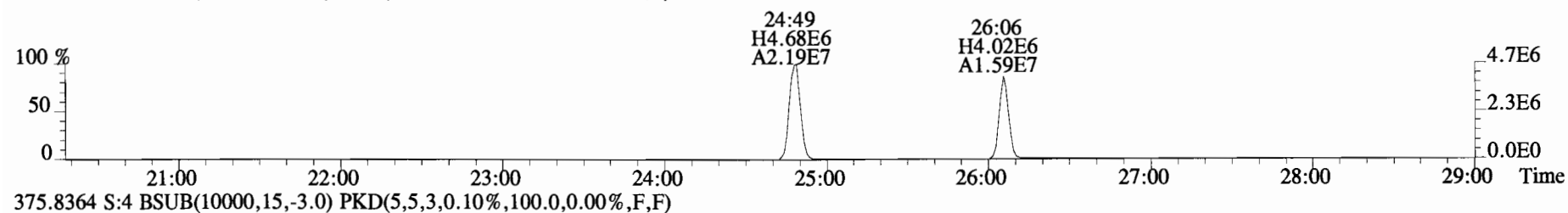
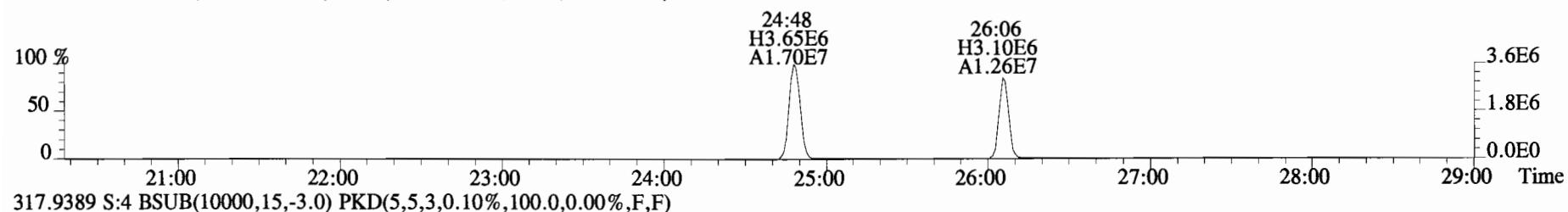
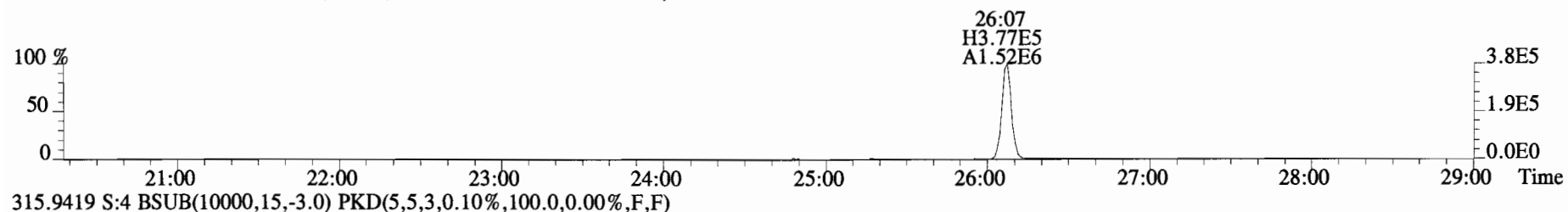
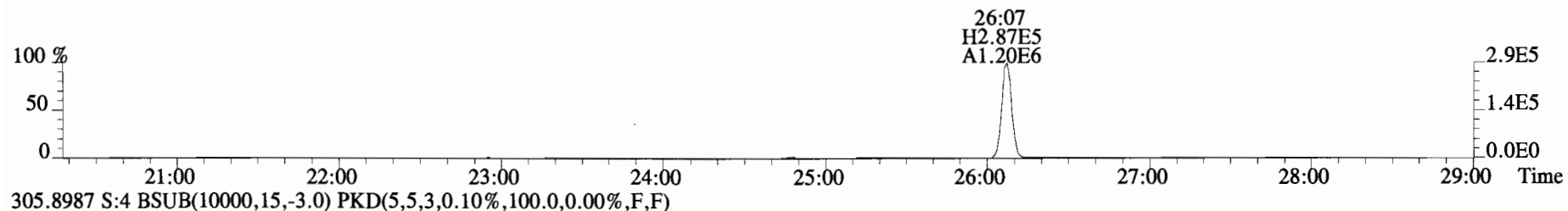
File:141217D1 #1-326 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



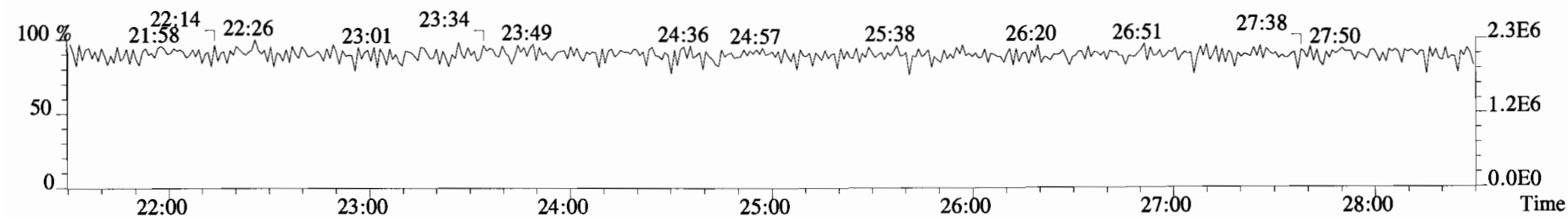
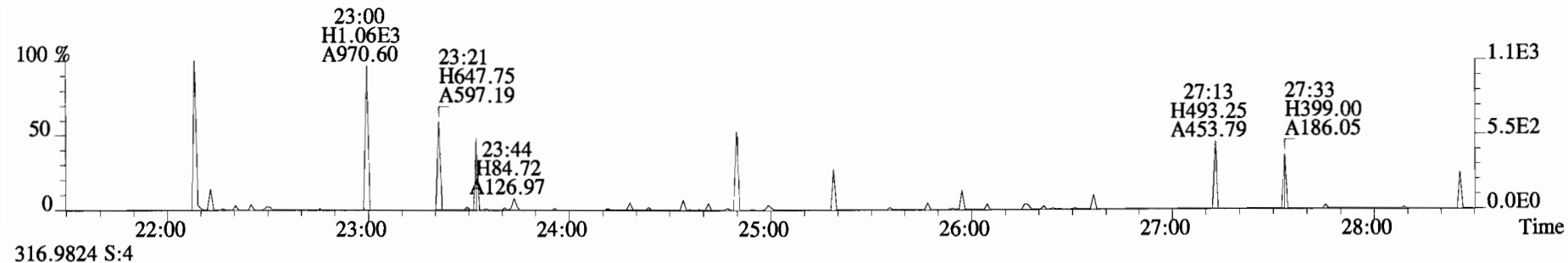
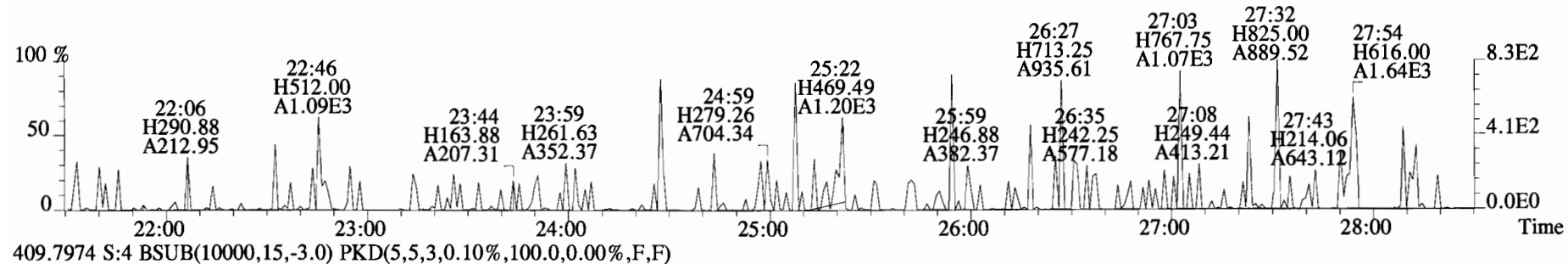
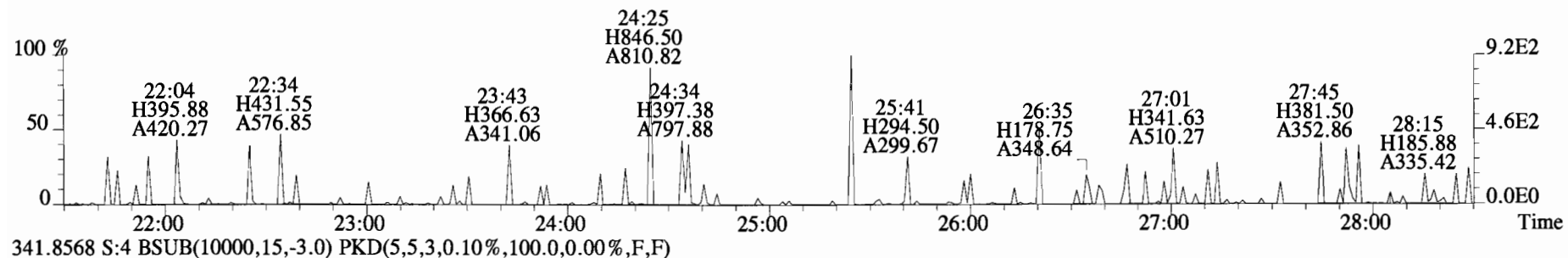
File:141217D1 #1-388 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



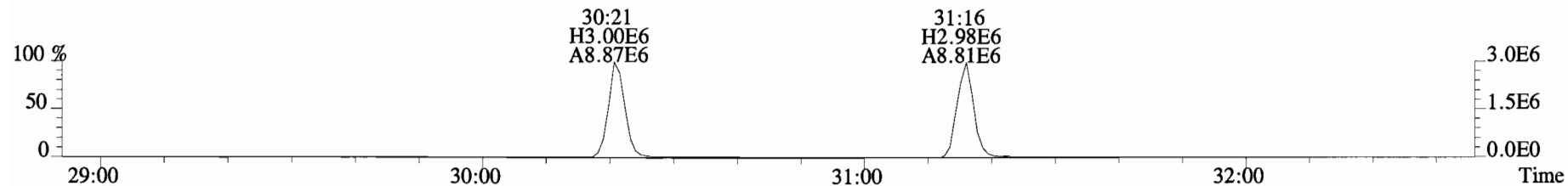
File:141217D1 #1-551 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



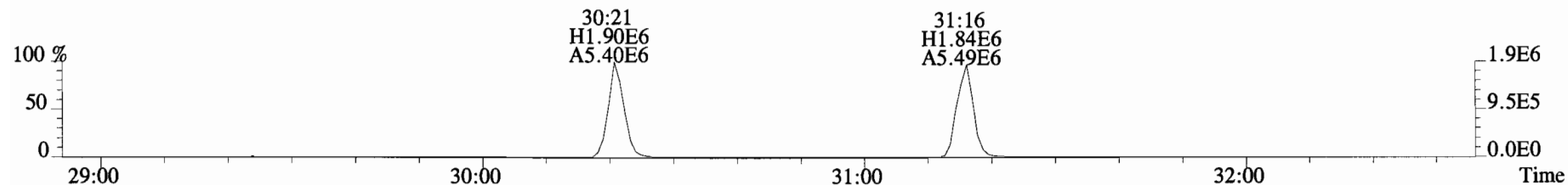
File:141217D1 #1-551 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



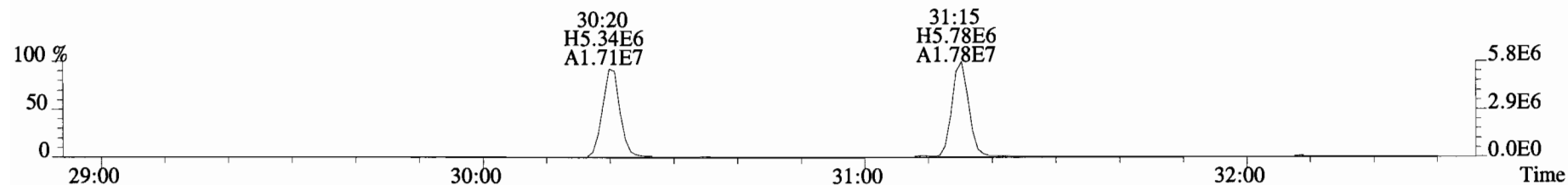
File:141217D1 #1-257 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



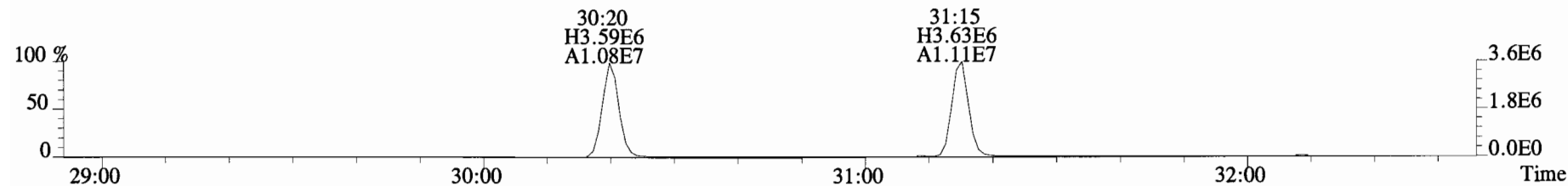
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



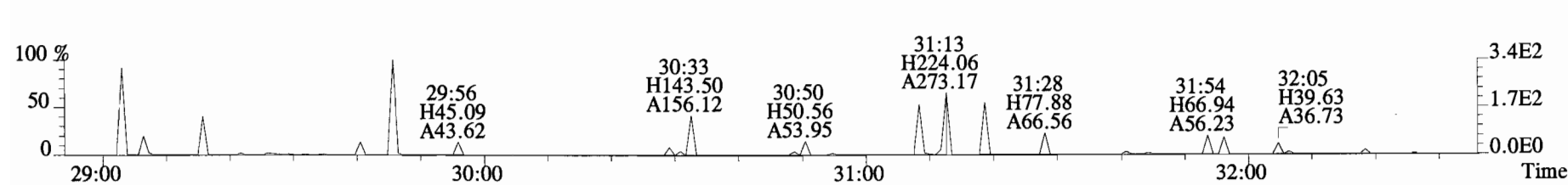
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



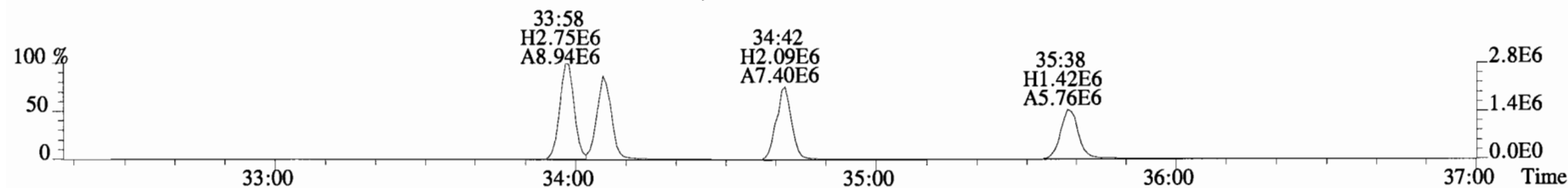
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



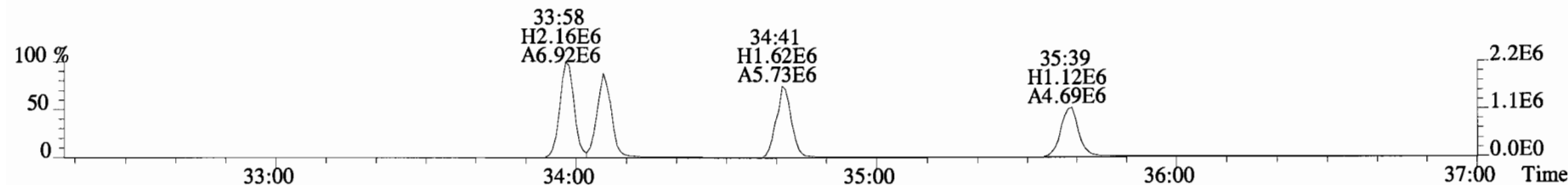
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



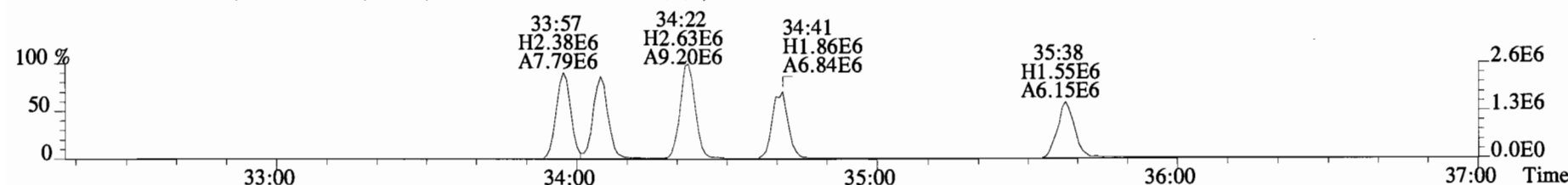
File:141217D1 #1-385 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



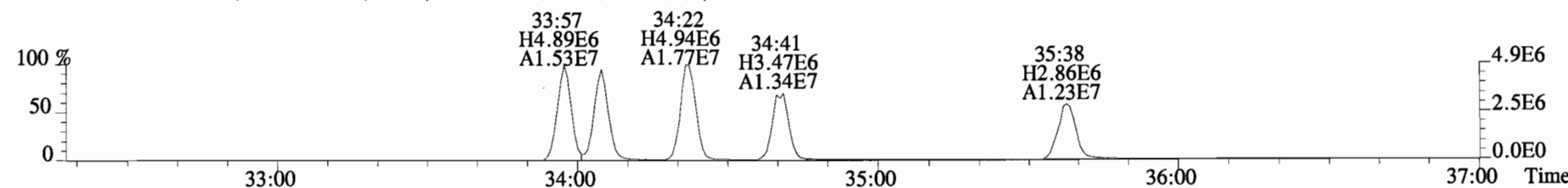
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



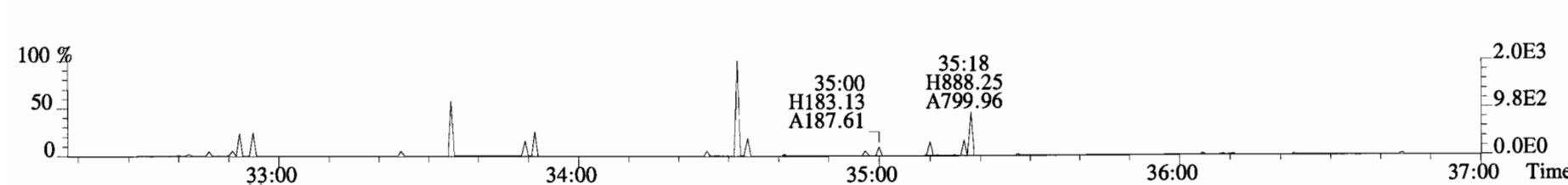
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



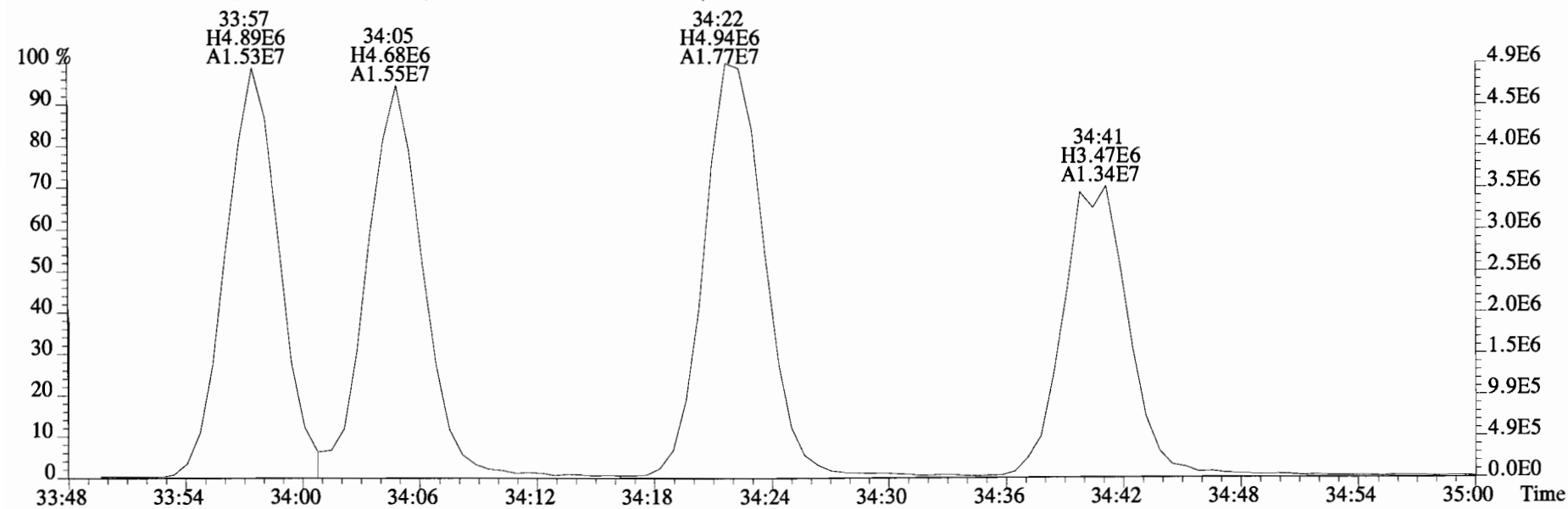
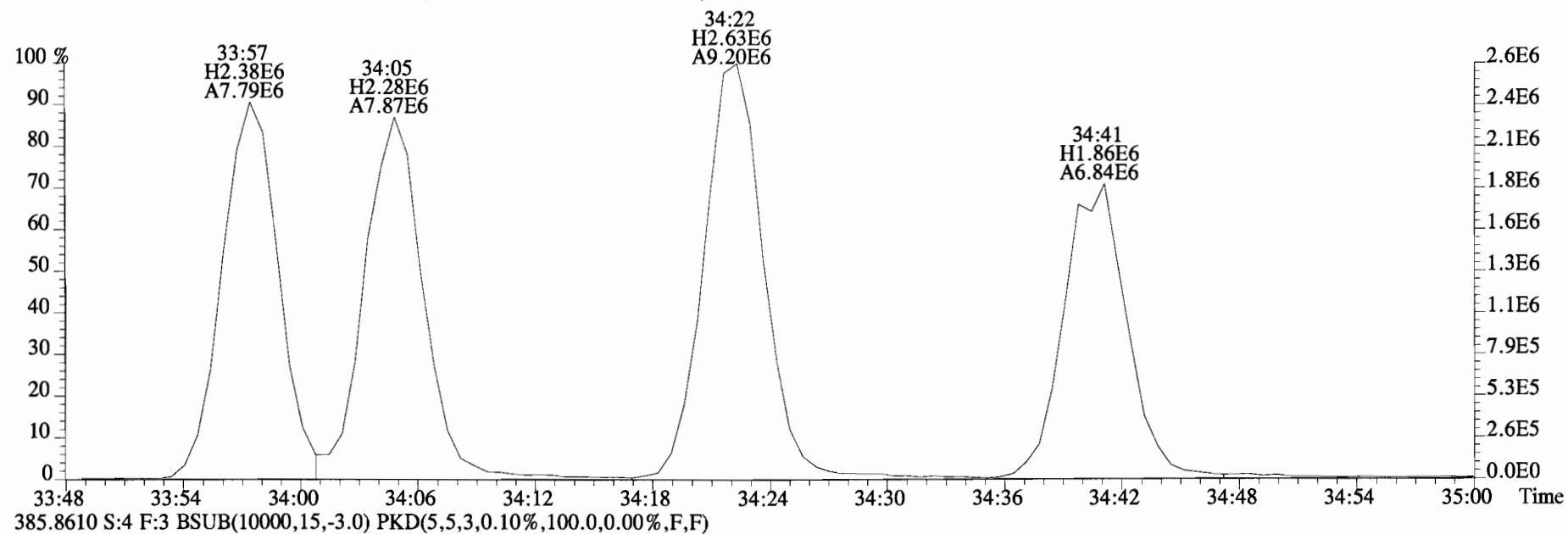
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



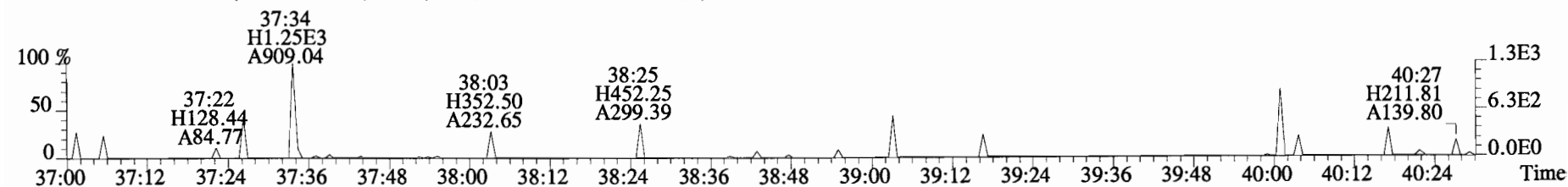
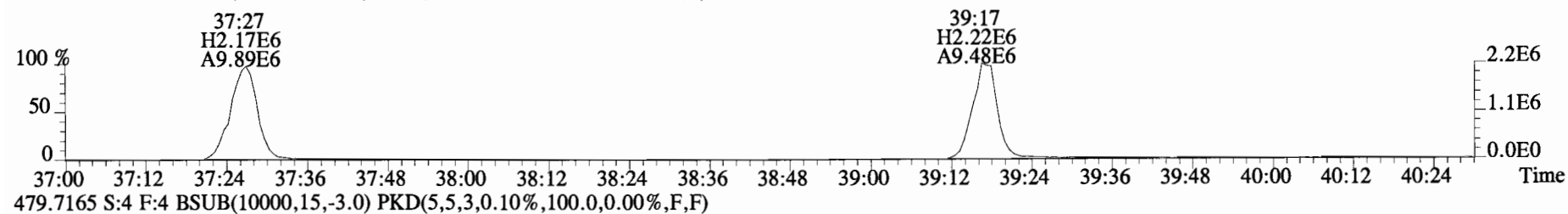
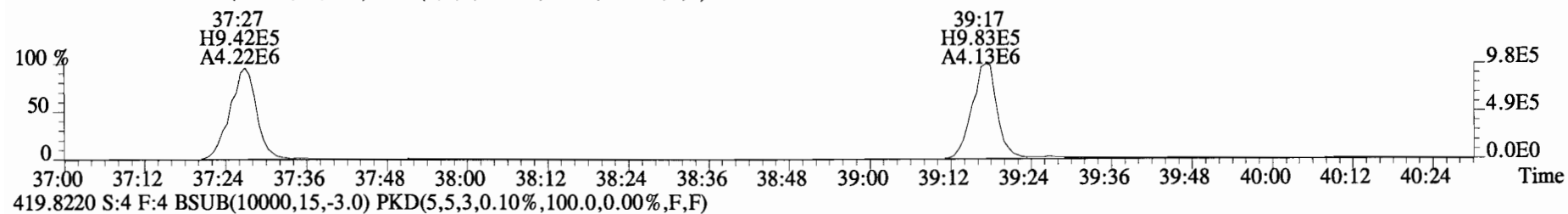
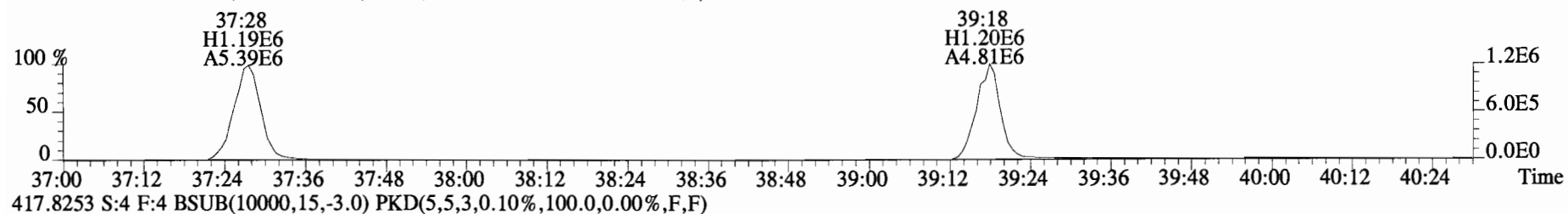
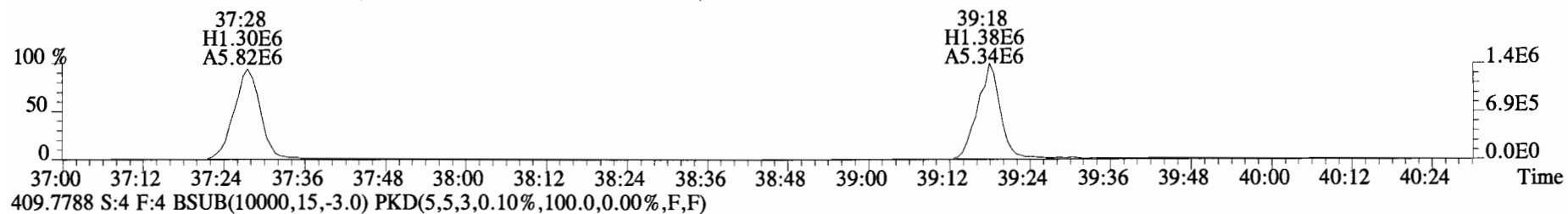
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



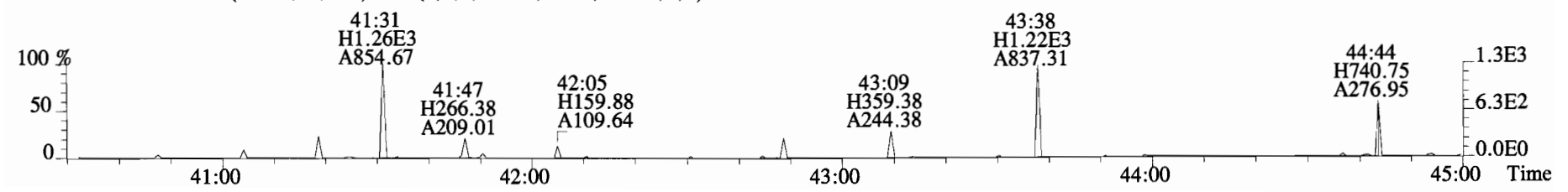
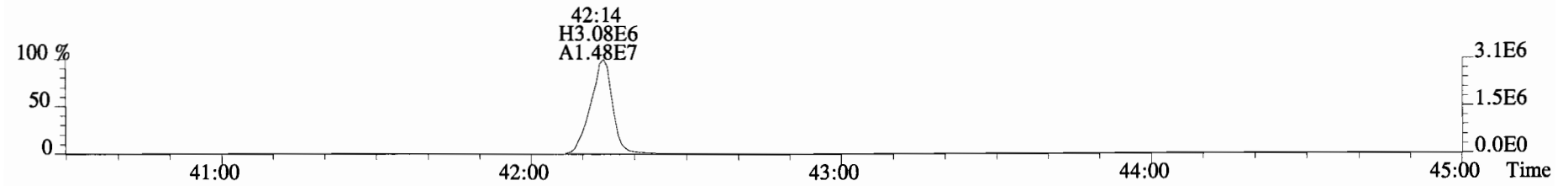
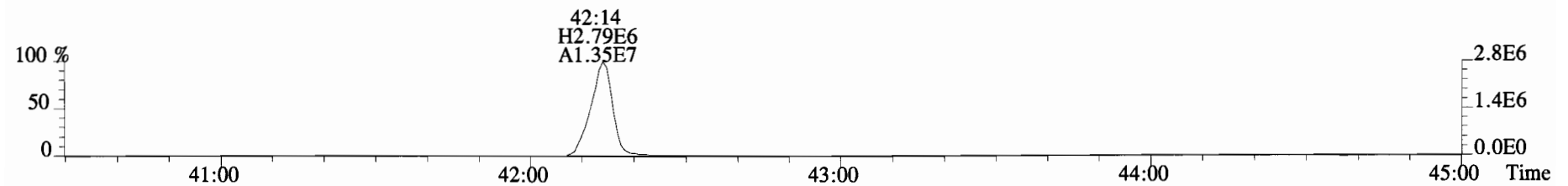
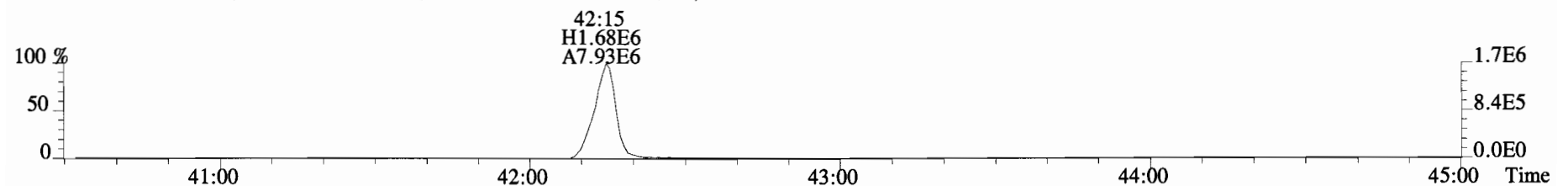
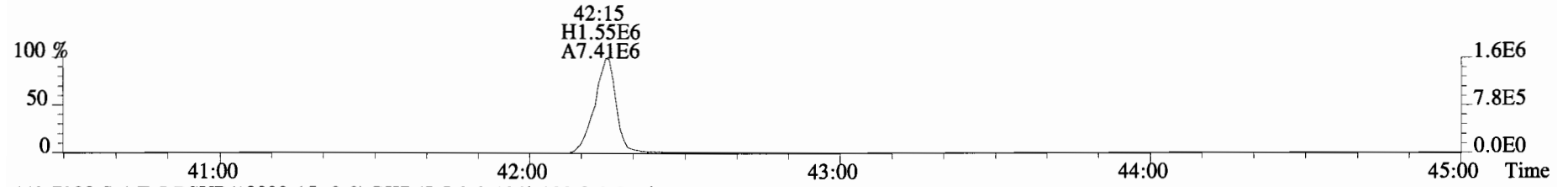
File:141217D1 #1-385 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:141217D1 #1-326 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 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)



File:141217D1 #1-388 Acq:17-DEC-2014 17:13:51 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B4L0090-BS1 OPR 1 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: SC-MH-20-20141211-S
Lab ID: 1400948-04

Filename: 141217D2 S:6 Acq:18-DEC-14 08:03:28
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 0.965

ConCal: ST141217D2-1
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+04	0.33 n	1.18	26:55	1.001	1.8229	*	2.5	*	*	Total Tetra-Dioxins	*	1.82	*	*	
1,2,3,7,8-PeCDD	7.93e+04	0.51 n	0.92	31:31	1.000	12.273	*	2.5	*	*	Total Penta-Dioxins	45.2	59.9	*	*	
1,2,3,4,7,8-HxCDD	2.16e+05	1.33 y	1.09	34:50	1.000	42.132	*	2.5	*	*	Total Hexa-Dioxins	654	654	*	*	
1,2,3,6,7,8-HxCDD	5.23e+05	1.12 y	1.07	34:56	1.000	95.860	*	2.5	*	*	Total Hepta-Dioxins	4910	4910	*	*	
1,2,3,7,8,9-HxCDD	4.29e+05	1.16 y	0.93	35:14	1.000	79.151	*	2.5	*	*	Total Tetra-Furans	18.1	26.1	*	*	
1,2,3,4,6,7,8-HpCDD	1.35e+07	1.01 y	1.12	38:44	1.000	2685.2	*	2.5	*	*	Total Penta-Furans	191.81	193.65	*	*	
OCDD	8.06e+07	0.89 y	0.95	41:60	1.000	21825	*	2.5	*	*	Total Hexa-Furans	1050	1050	*	*	
											Total Hepta-Furans	2880	2880	*	*	
2,3,7,8-TCDF	2.08e+04	0.70 y	1.08	26:06	1.001	1.9781	*	2.5	*	*						
1,2,3,7,8-PeCDF	4.27e+04	1.61 y	1.09	30:19	1.000	4.1985	*	2.5	*	*						
2,3,4,7,8-PeCDF	6.02e+04	1.75 y	1.04	31:14	1.000	5.8669	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	3.65e+05	1.32 y	1.39	33:57	1.000	35.263	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	3.83e+05	1.23 y	1.26	34:05	1.001	40.385	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	4.03e+05	1.29 y	1.30	34:40	1.000	43.762	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.88e+04	1.23 y	1.19	35:37	1.000	2.6342	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	9.30e+06	1.10 y	1.62	37:26	1.000	1168.9	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	4.03e+05	1.12 y	1.53	39:17	1.000	59.491	*	2.5	*	*						
OCDF	1.79e+07	0.91 y	1.10	42:13	1.000	3457.0	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.31e+07	0.81 y	1.07	26:53	1.023	1334.6					64.4					
IS 13C-1,2,3,7,8-PeCDD	1.46e+07	0.62 y	1.24	31:31	1.199	1286.3					62.0					
IS 13C-1,2,3,4,7,8-HxCDD	9.79e+06	1.23 y	0.72	34:49	1.014	1038.3					50.1					
IS 13C-1,2,3,6,7,8-HxCDD	1.06e+07	1.23 y	0.74	34:56	1.017	1107.7					53.4					
IS 13C-1,2,3,7,8,9-HxCDD	1.21e+07	1.23 y	0.86	35:14	1.025	1084.3					52.3					
IS 13C-1,2,3,4,6,7,8-HpCDD	9.34e+06	1.05 y	0.64	38:43	1.127	1114.3					53.7					
IS 13C-OCDD	1.61e+07	0.87 y	0.78	41:59	1.222	1581.4					38.1					
IS 13C-2,3,7,8-TCDF	2.03e+07	0.76 y	0.92	26:05	0.992	1353.8					65.3					
IS 13C-1,2,3,7,8-PeCDF	1.94e+07	1.62 y	0.95	30:19	1.153	1257.7					60.7					
IS 13C-2,3,4,7,8-PeCDF	2.04e+07	1.62 y	0.97	31:14	1.188	1297.8					62.6					
IS 13C-1,2,3,4,7,8-HxCDF	1.55e+07	0.51 y	0.99	33:56	0.988	1199.3					57.8					
IS 13C-1,2,3,6,7,8-HxCDF	1.56e+07	0.51 y	1.10	34:04	0.992	1090.0					52.6					
IS 13C-2,3,4,6,7,8-HxCDF	1.47e+07	0.52 y	1.03	34:39	1.009	1094.4					52.8					
IS 13C-1,2,3,7,8,9-HxCDF	1.24e+07	0.50 y	0.86	35:37	1.037	1110.0					53.5					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.02e+07	0.44 y	0.71	37:25	1.089	1099.0					53.0					
IS 13C-1,2,3,4,7,8,9-HpCDF	9.21e+06	0.43 y	0.71	39:16	1.143	999.95					48.2					
IS 13C-OCDF	1.95e+07	0.89 y	0.87	42:13	1.229	1717.7					41.4					
C/Up 37Cl-2,3,7,8-TCDD	8.64e+06		1.21	26:54	1.024	778.62					93.9					
RS/RT 13C-1,2,3,4-TCDD	1.90e+07	0.79 y	1.00	26:17	*	2073.2						Integrations				
RS 13C-1,2,3,4-TCDF	3.36e+07	0.78 y	1.00	24:47	*	2073.2						by				
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.70e+07	0.52 y	1.00	34:21	*	2073.2						Analyst: <i>MJ</i>				
													Reviewed			
													by			
													Analyst: <i>[Signature]</i>			
													Date: <i>12/13/14</i>			
													Date: <i>12/19/14</i>			

Totals class: TCDD EMPC

Entry #: 19

Run: 11

File: 141217D2

S: 6 I: 1 F: 1

Acquired: 18-DEC-14 08:03:28

Processed: 18-DEC-14 13:52:17

Total Concentration: 1.8229

Unnamed Concentration: *

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
26:55	5.939e+03	1.798e+04	0.33 n	1.365e+04	1.8229	2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 11 File: 141217D2 S: 6 I: 1 F: 2
 Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 59.855

Unnamed Concentration: 47.582

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:26	2.792e+04	5.178e+04	0.54	y	7.969e+04	12.329
29:54	9.295e+03	1.475e+04	0.63	y	2.405e+04	3.7199
30:21	1.521e+04	2.186e+04	0.70	y	3.707e+04	5.7346
30:30	2.449e+04	4.136e+04	0.59	y	6.585e+04	10.187
30:36	1.500e+04	2.326e+04	0.65	y	3.826e+04	5.9195
30:48	1.811e+04	2.933e+04	0.62	y	4.743e+04	7.3376
31:31	3.066e+04	5.980e+04	0.51	n	7.934e+04	12.273
31:53	7.826e+03	9.340e+03	0.84	n	1.522e+04	2.3551

1,2,3,7,8-PeCDD

Totals class: HxCDD EMPC

Entry #: 23

Run: 11 File: 141217D2 S: 6 I: 1 F: 3
Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 654.22 Unnamed Concentration: 437.079

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
33:18	3.963e+05	3.416e+05	1.16	y	7.380e+05	138.25
33:52	7.569e+04	6.238e+04	1.21	y	1.381e+05	25.866
34:08	8.030e+05	6.540e+05	1.23	y	1.457e+06	272.96
34:50	1.235e+05	9.279e+04	1.33	y	2.163e+05	42.132
34:56	2.769e+05	2.461e+05	1.12	y	5.230e+05	95.860
35:14	2.304e+05	1.983e+05	1.16	y	4.287e+05	79.151

Totals class: HpCDD EMPC

Entry #: 25

Run: 11 File: 141217D2 S: 6 I: 1 F: 4
Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 4914.5 Unnamed Concentration: 2229.235

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:49	5.657e+06	5.536e+06	1.02 y	1.119e+07	2229.2	
38:44	6.787e+06	6.695e+06	1.01 y	1.348e+07	2685.2	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 11 File: 141217D2 S: 6 I: 1 F: 1
 Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 26.133 Unnamed Concentration: 24.155

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
22:18	3.567e+04	5.141e+04	0.69 y	8.708e+04	8.2741
23:17	1.169e+04	1.486e+04	0.79 y	2.654e+04	2.5222
23:43	1.252e+04	1.937e+04	0.65 n	2.877e+04	2.7338
24:42	1.875e+04	1.780e+04	1.05 n	3.151e+04	2.9944
24:48	1.696e+04	2.576e+04	0.66 y	4.272e+04	4.0591
25:15	5.754e+03	7.547e+03	0.76 y	1.330e+04	1.2639
26:06	8.564e+03	1.225e+04	0.70 y	2.082e+04	1.9781
26:26	1.382e+04	1.372e+04	1.01 n	2.428e+04	2.3073

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 11 File: 141217D2 S: 6 I: 1 F: 1
Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 99.685 Unnamed Concentration: 99.685

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
27:54	6.138e+05	4.046e+05	1.52 y	1.018e+06	99.685

Totals class: PeCDF EMPC

Entry #: 31

Run: 11 File: 141217D2 S: 6 I: 1 F: 2
 Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 93.967

Unnamed Concentration: 83.902

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:22	3.222e+05	1.970e+05	1.64	y	5.192e+05	50.827
29:56	1.265e+05	8.182e+04	1.55	y	2.083e+05	20.393
30:09	1.143e+04	1.015e+04	1.13	n	1.881e+04	1.8414
30:19	2.634e+04	1.636e+04	1.61	y	4.270e+04	4.1985
30:35	3.857e+04	2.667e+04	1.45	y	6.524e+04	6.3861
31:14	3.830e+04	2.187e+04	1.75	y	6.016e+04	5.8669
31:17	2.904e+04	1.646e+04	1.76	y	4.550e+04	4.4541

Totals class: HxCDF EMPC

Entry #: 33

Run: 11 File: 141217D2 S: 6 I: 1 F: 3
 Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 1045.9 Unnamed Concentration: 923.830

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
32:46	6.973e+05	5.243e+05	1.33 y	1.222e+06	135.37	
32:56	2.685e+06	2.062e+06	1.30 y	4.748e+06	526.10	
33:29	1.268e+06	9.705e+05	1.31 y	2.239e+06	248.09	
33:51	4.767e+04	3.829e+04	1.25 y	8.595e+04	9.5246	
33:57	2.082e+05	1.572e+05	1.32 y	3.654e+05	35.263	1,2,3,4,7,8-HxCDF
34:05	2.111e+05	1.717e+05	1.23 y	3.828e+05	40.385	1,2,3,6,7,8-HxCDF
34:40	2.271e+05	1.755e+05	1.29 y	4.026e+05	43.762	2,3,4,6,7,8-HxCDF
35:37	1.034e+04	8.419e+03	1.23 y	1.875e+04	2.6342	1,2,3,7,8,9-HxCDF
35:41	2.492e+04	1.783e+04	1.40 y	4.275e+04	4.7370	

Totals class: HpCDF EMPC

Entry #: 35

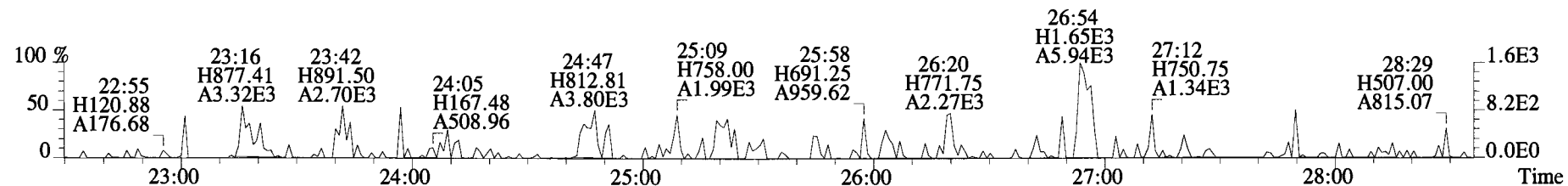
Run: 11 File: 141217D2 S: 6 I: 1 F: 4
Acquired: 18-DEC-14 08:03:28 Processed: 18-DEC-14 13:52:17

Total Concentration: 2879.6

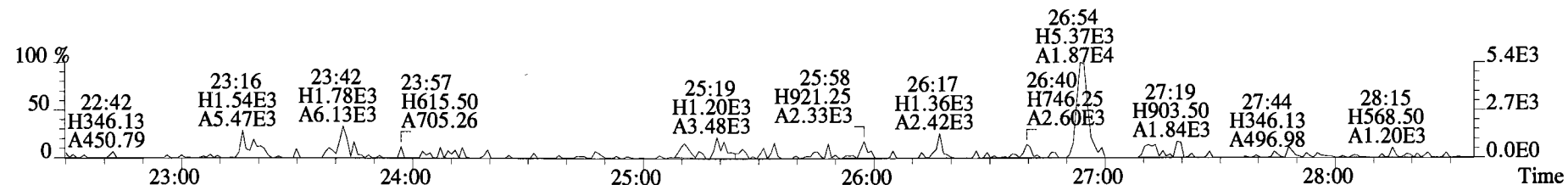
Unnamed Concentration: 1651.185

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
37:26	4.877e+06	4.418e+06	1.10	y	9.296e+06	1168.9	1,2,3,4,6,7,8-HpCDF
37:50	9.710e+04	9.014e+04	1.08	y	1.872e+05	25.454	
38:03	6.269e+06	5.689e+06	1.10	y	1.196e+07	1625.7	
39:17	2.128e+05	1.906e+05	1.12	y	4.034e+05	59.491	1,2,3,4,7,8,9-HpCDF

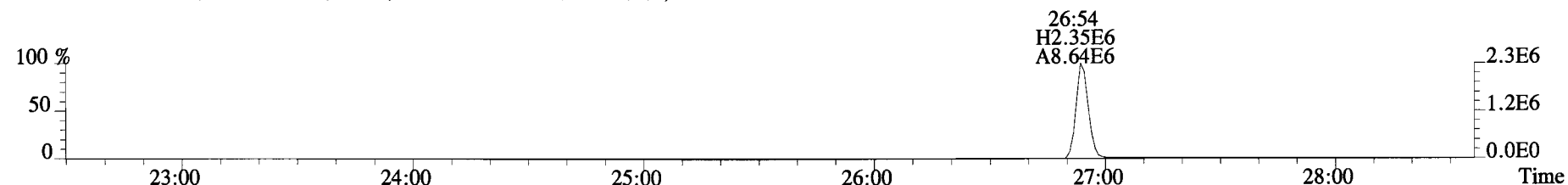
File:141217D2 #1-551 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



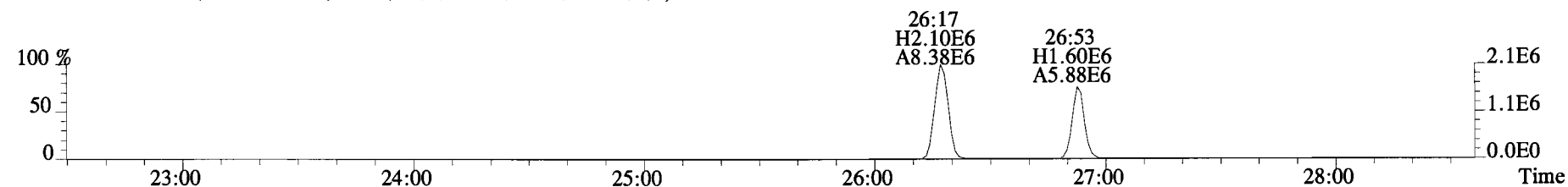
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



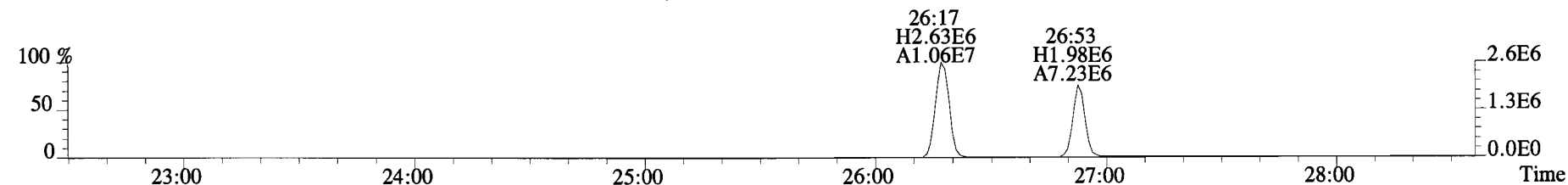
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



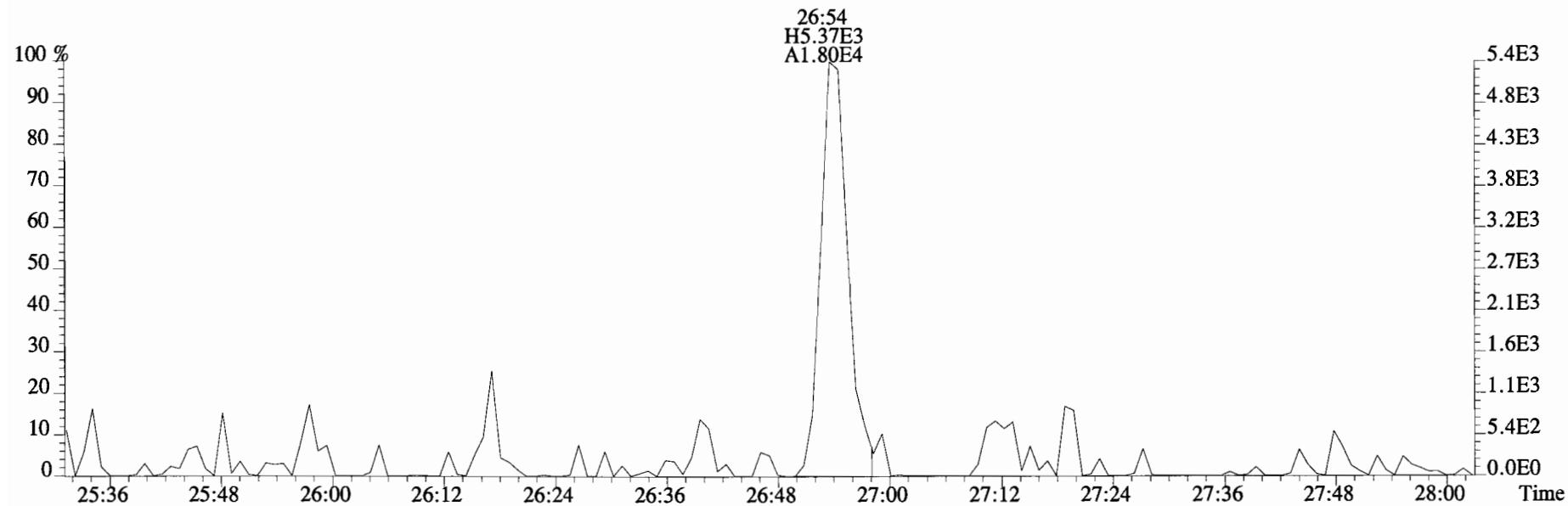
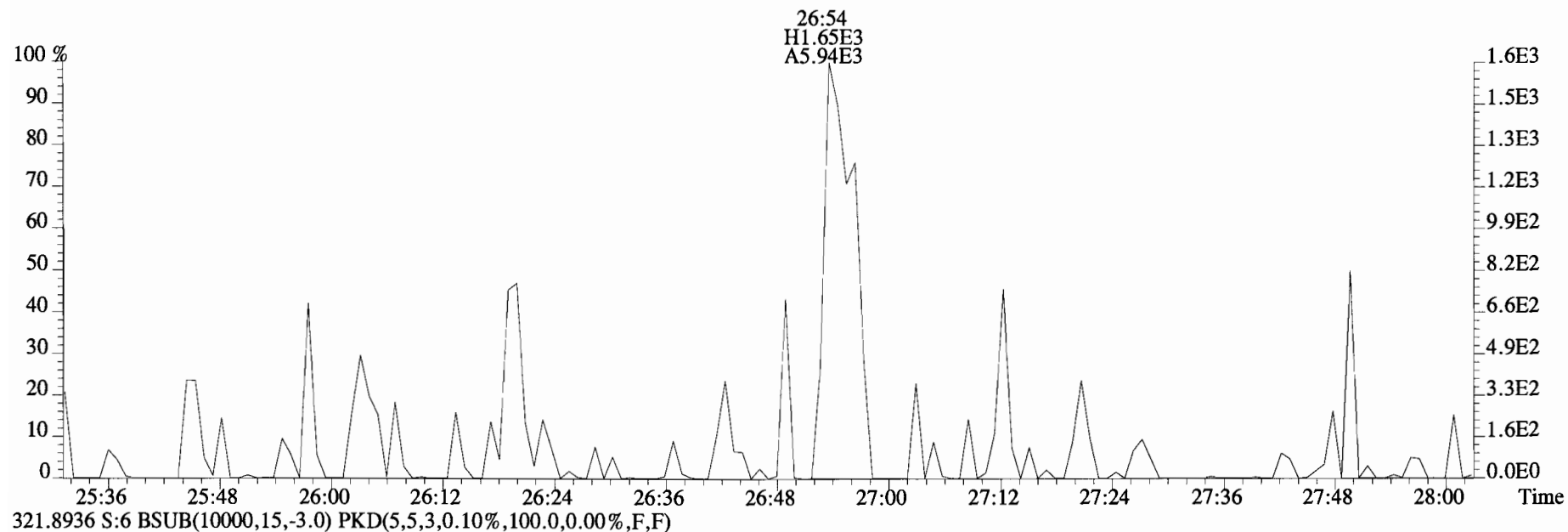
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



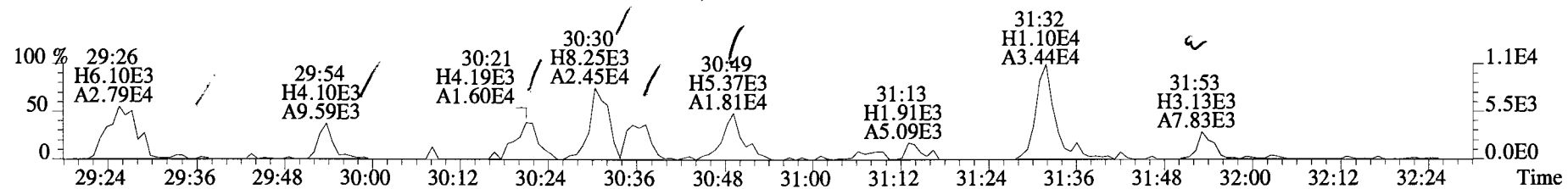
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



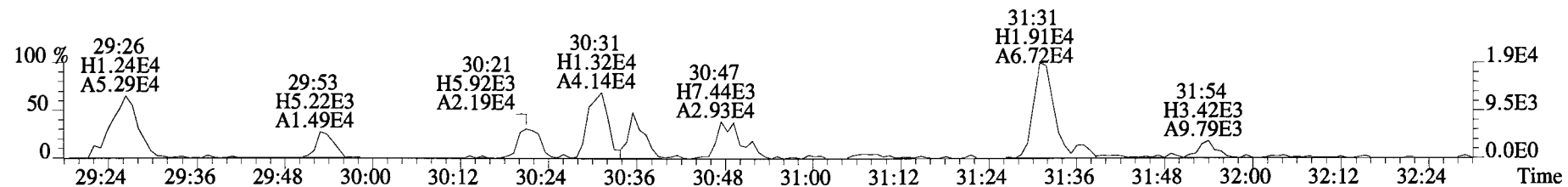
File:141217D2 #1-551 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



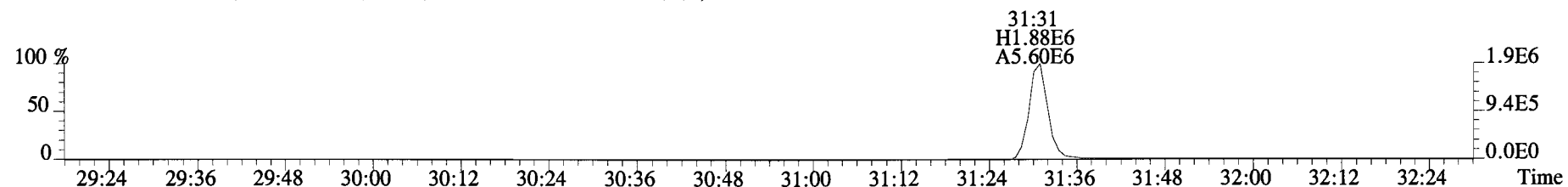
File:141217D2 #1-257 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



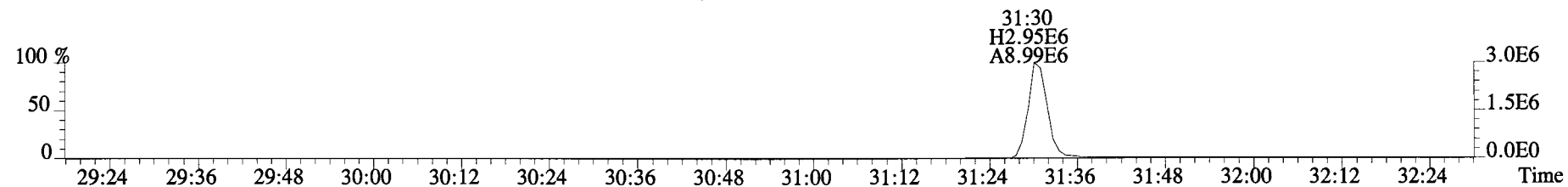
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



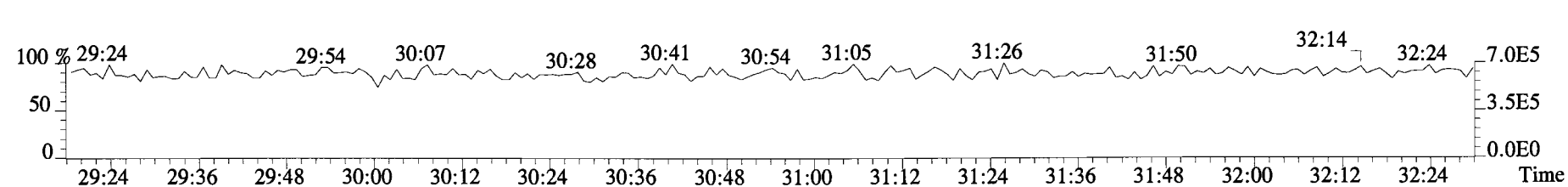
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



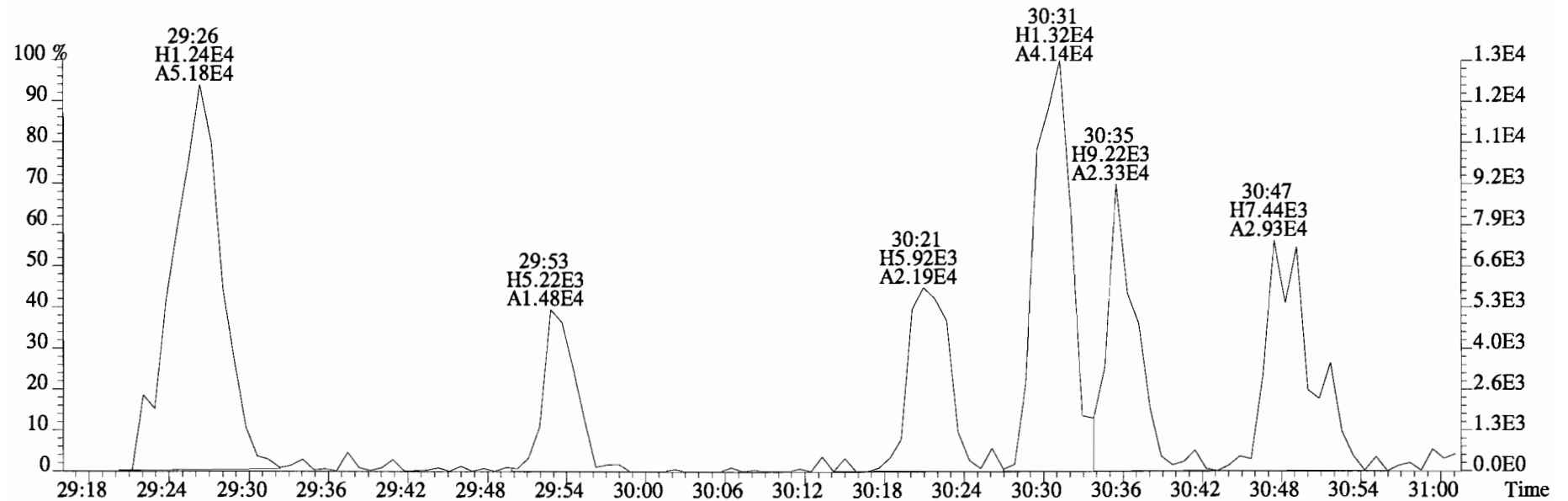
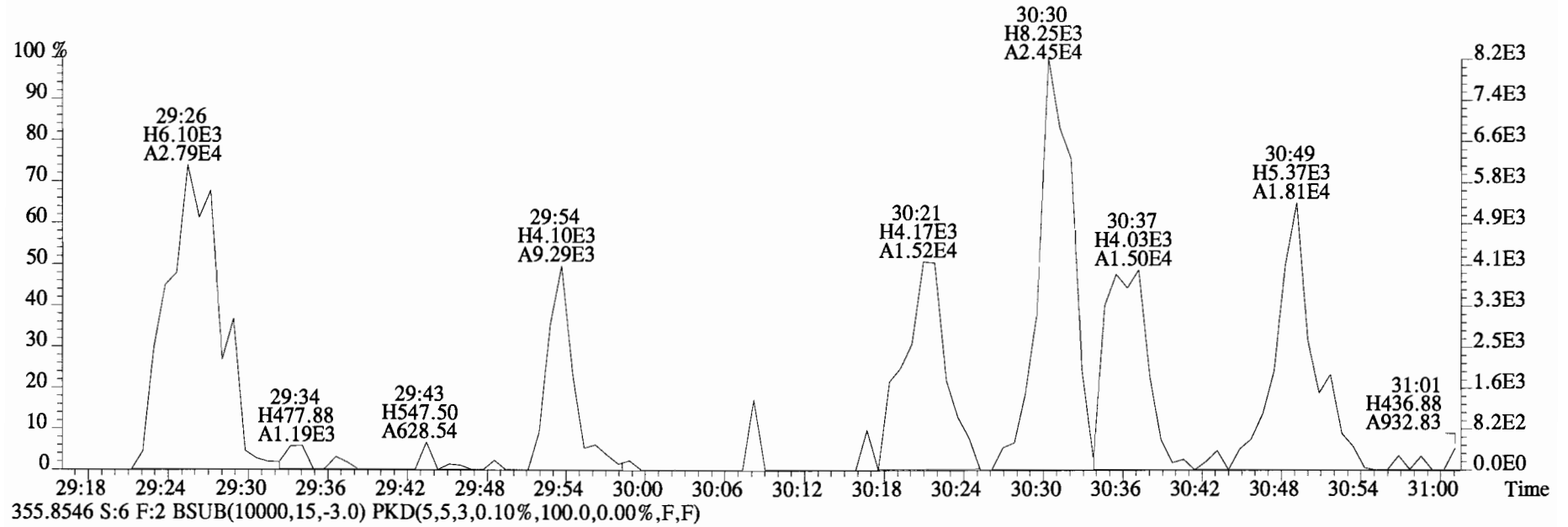
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



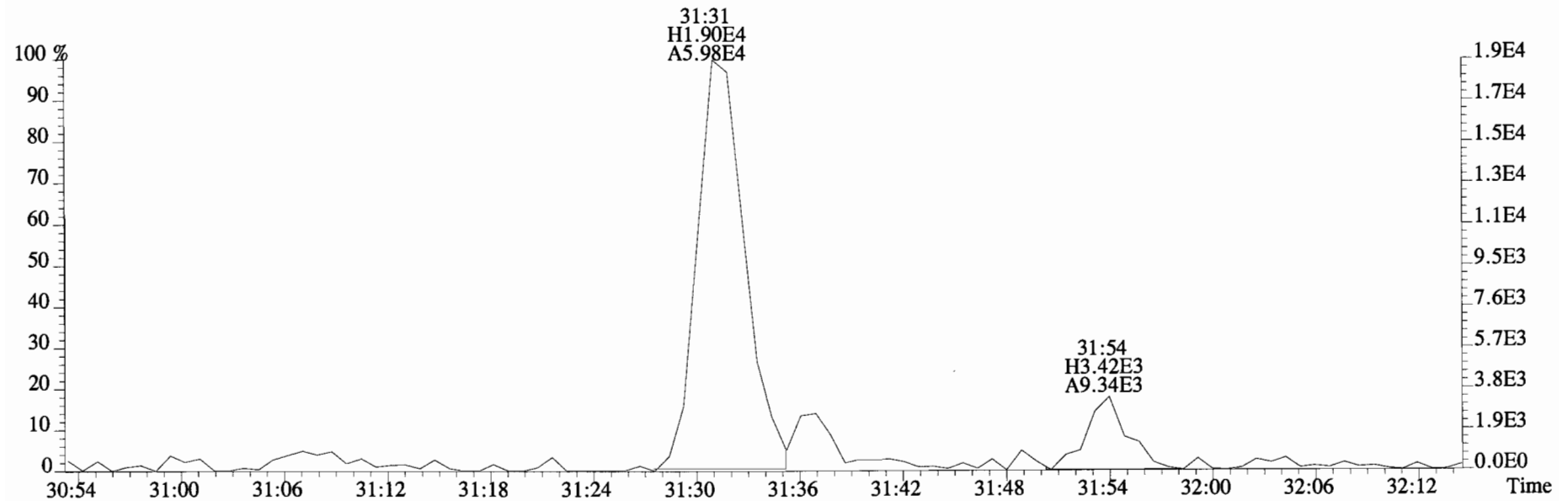
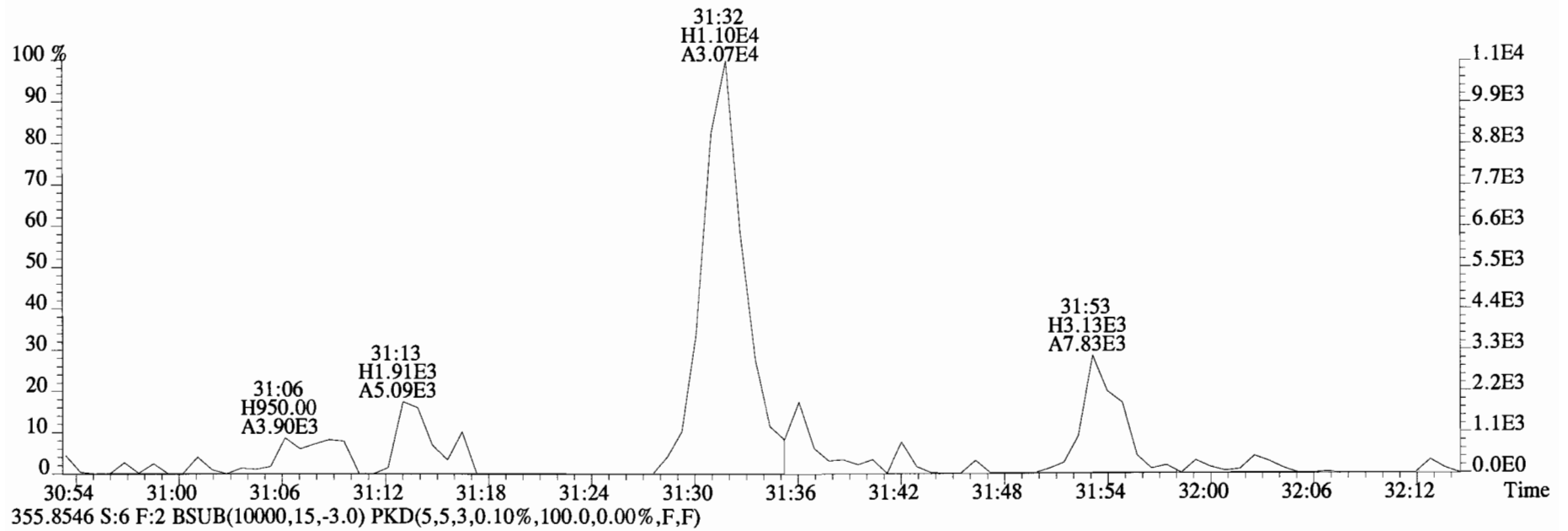
366.9792 S:6 F:2



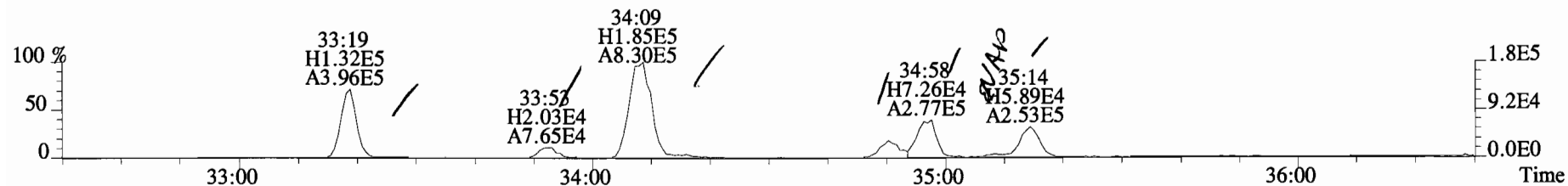
File:141217D2 #1-257 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
 353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



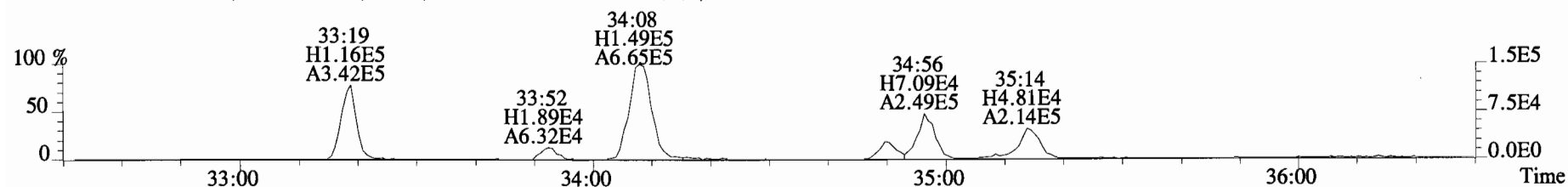
File:141217D2 #1-257 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



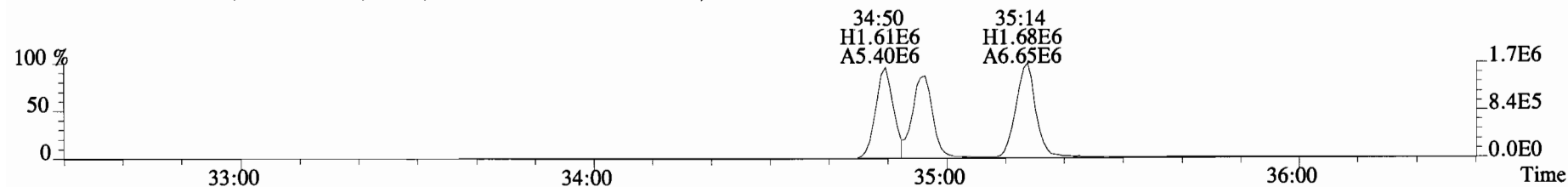
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



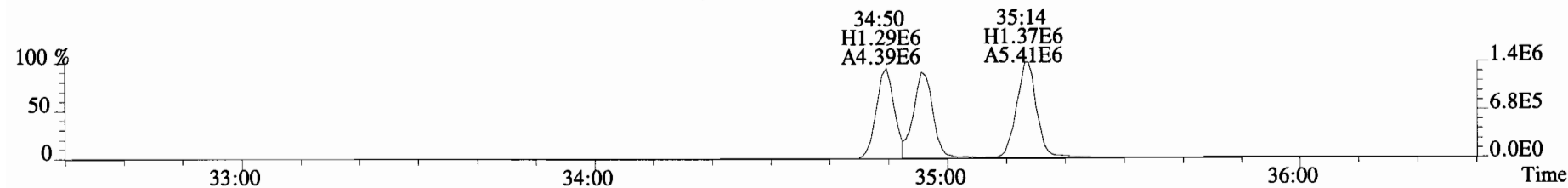
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



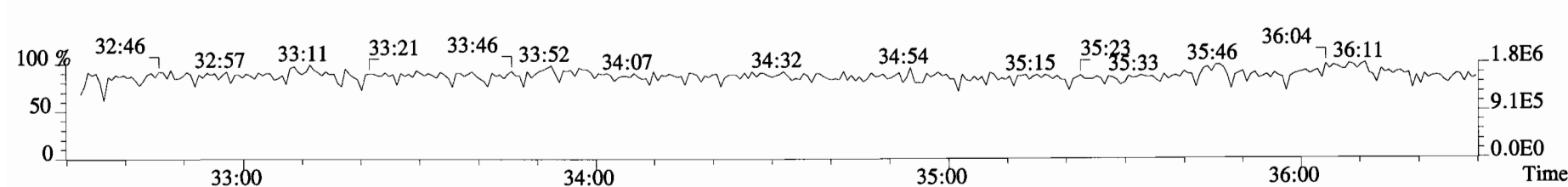
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



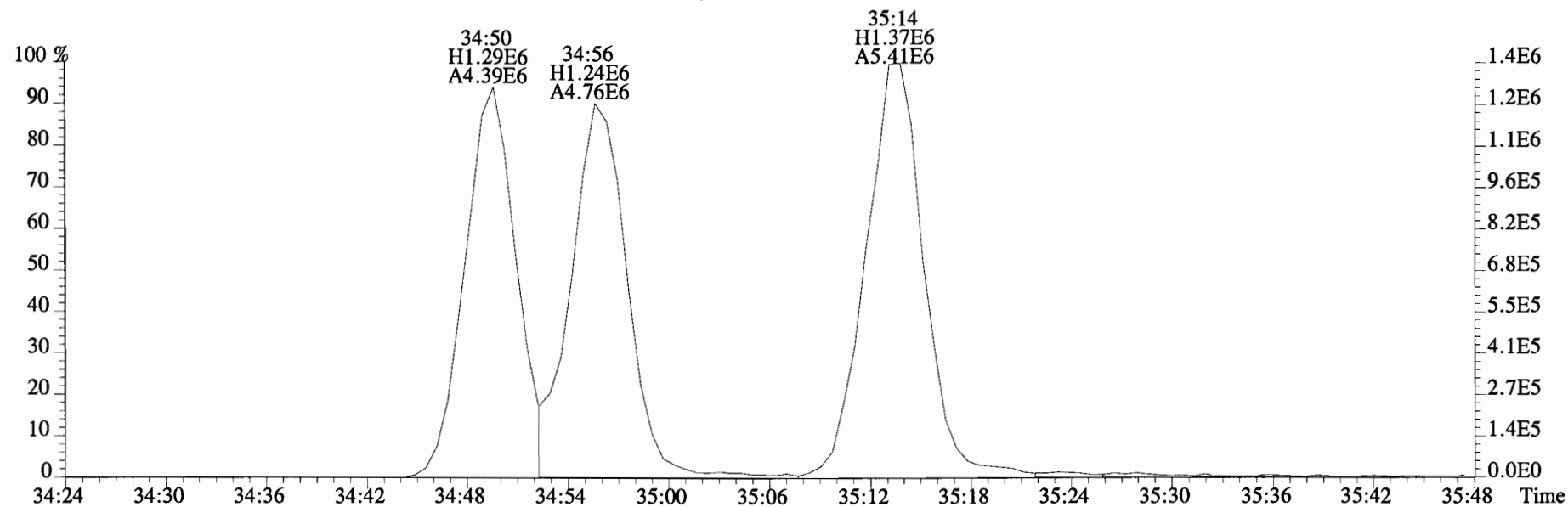
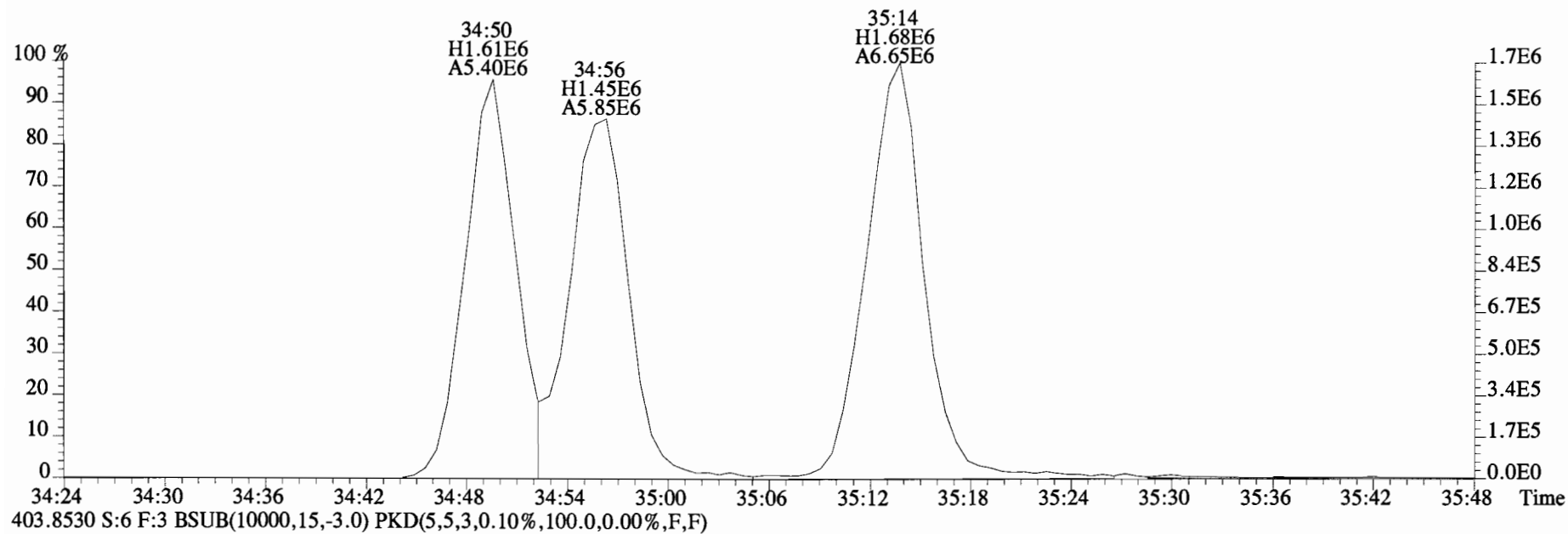
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



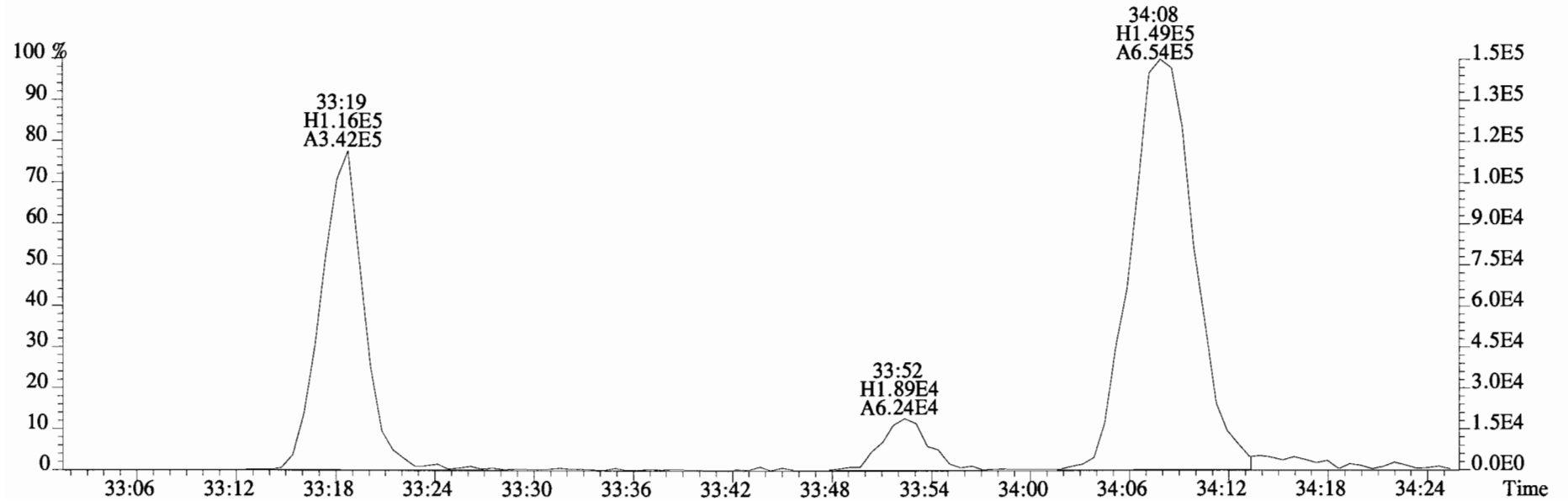
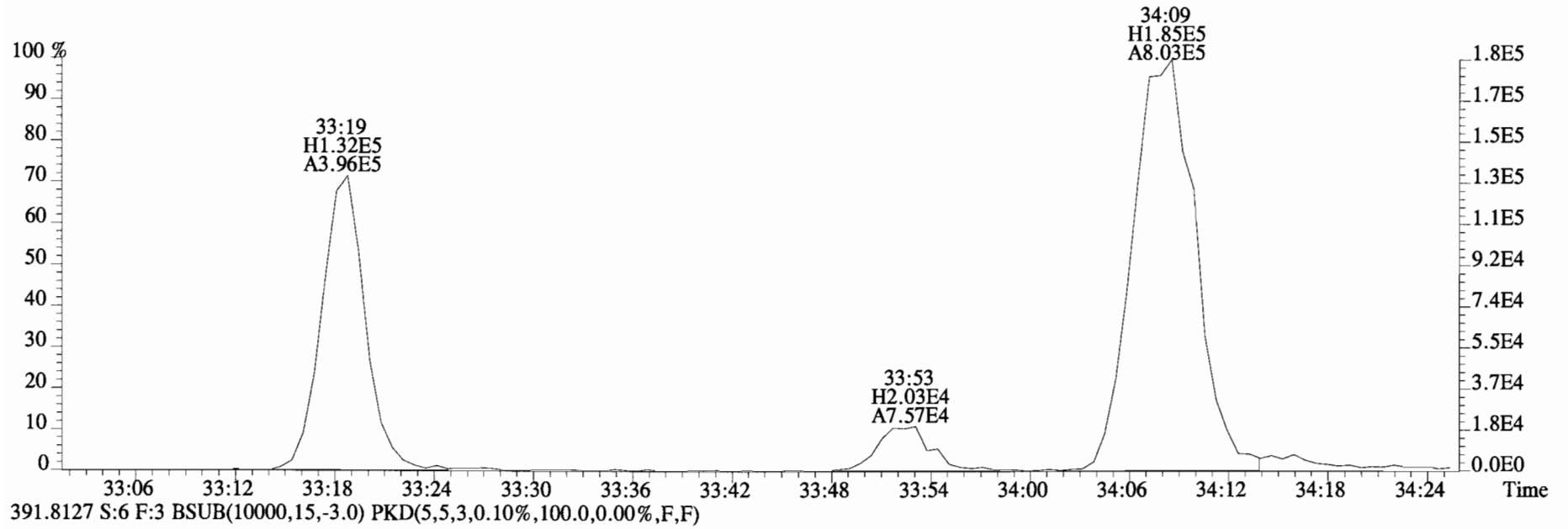
380.9760 S:6 F:3



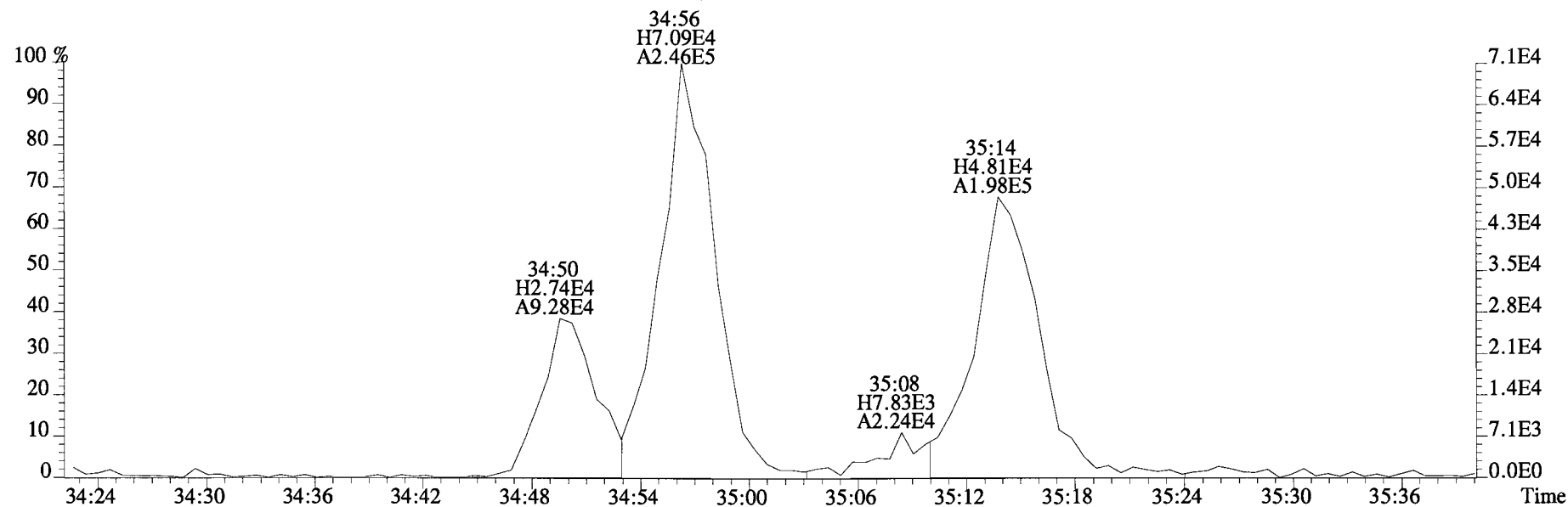
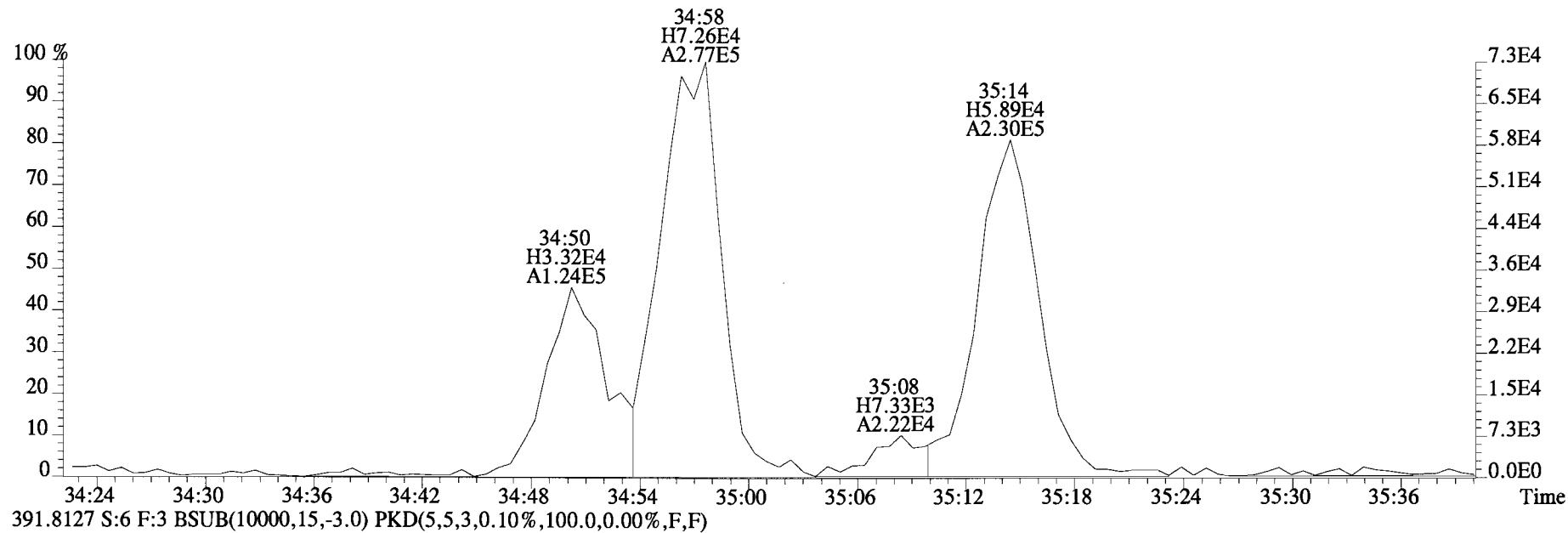
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



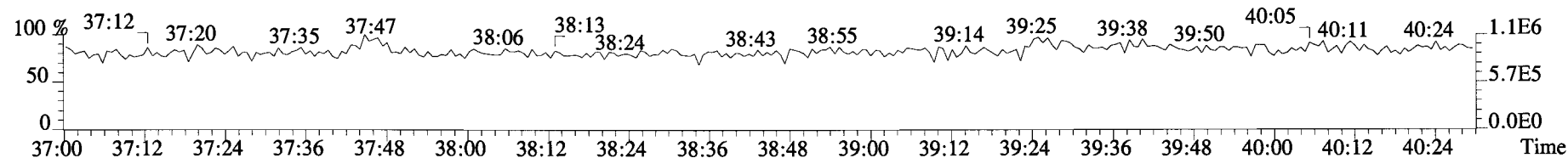
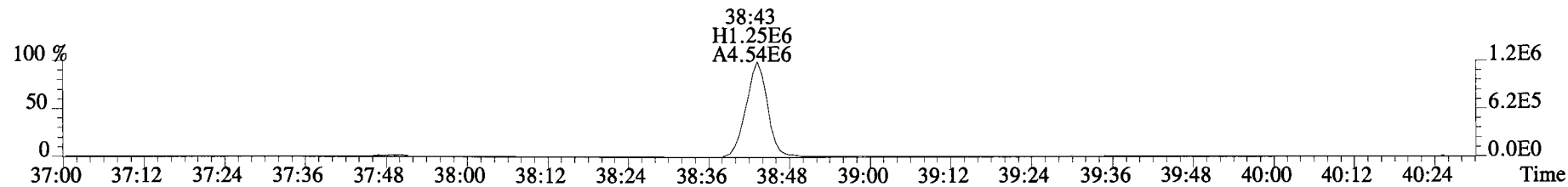
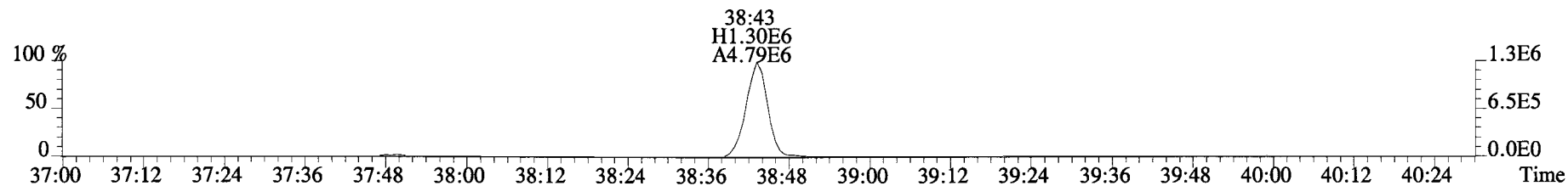
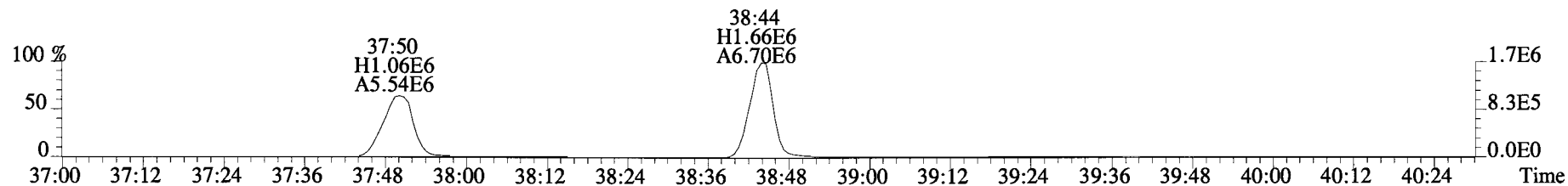
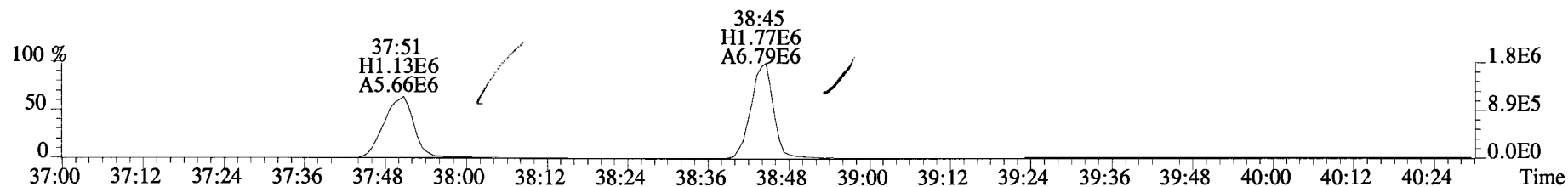
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



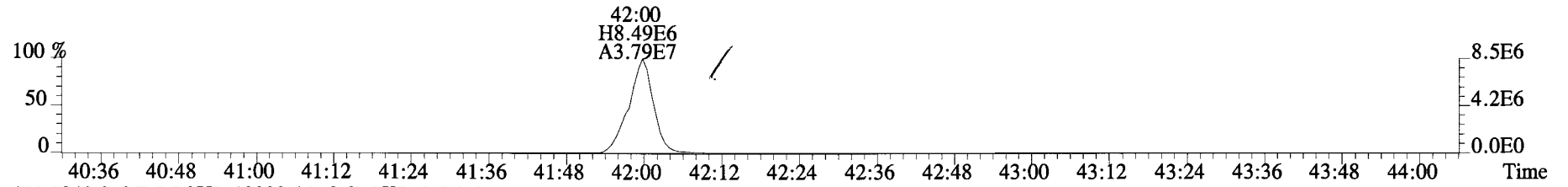
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



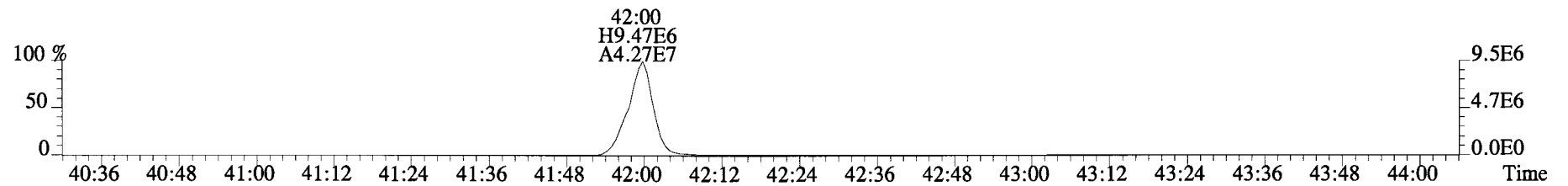
File:141217D2 #1-325 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
423.7767 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



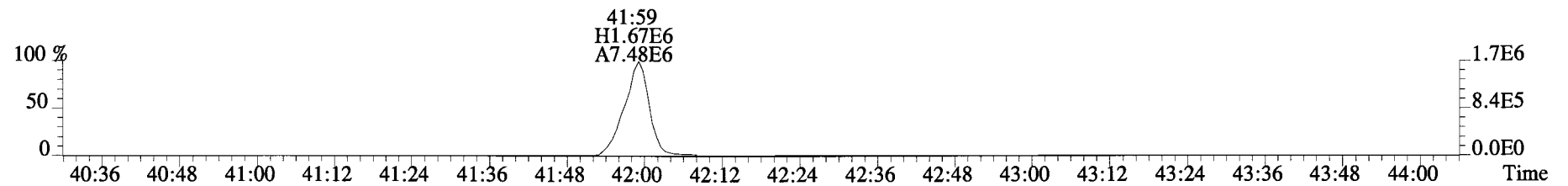
File:141217D2 #1-389 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



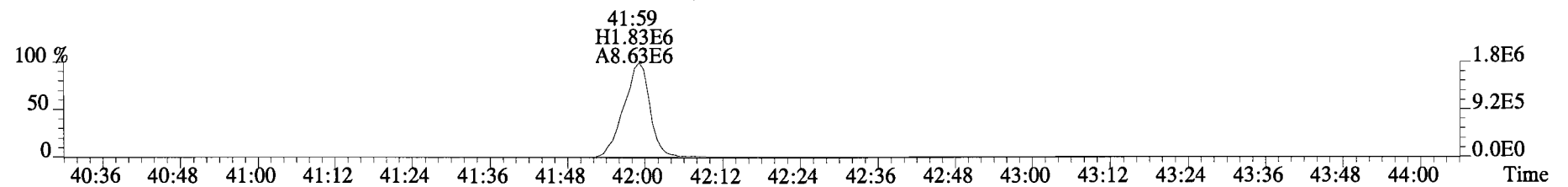
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



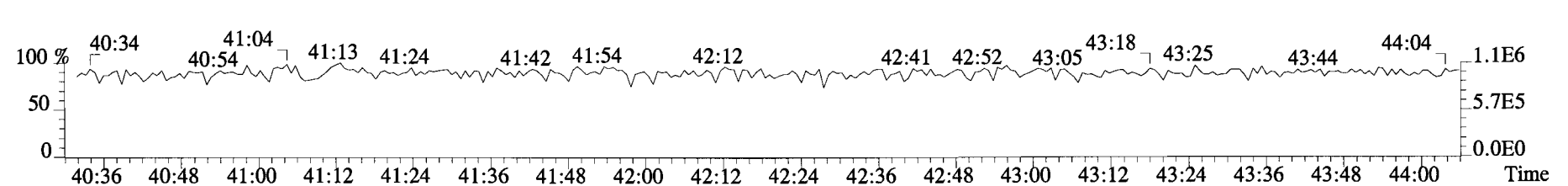
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



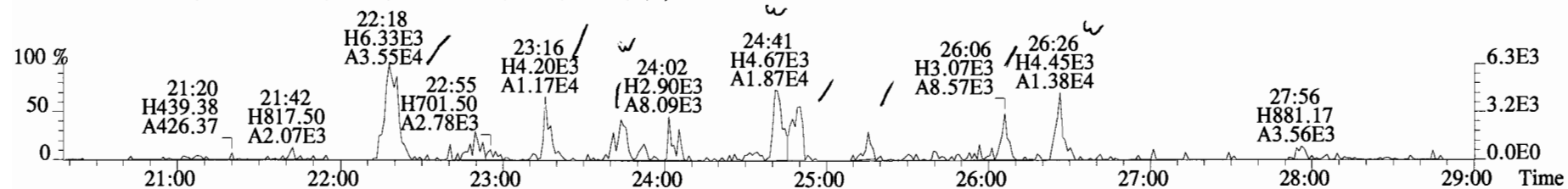
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



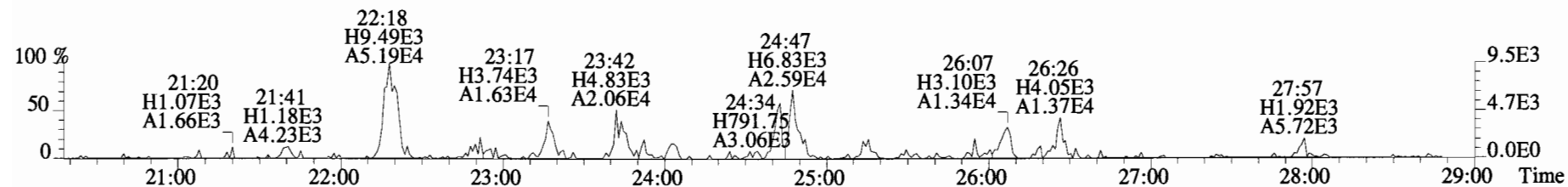
454.9728 S:6 F:5



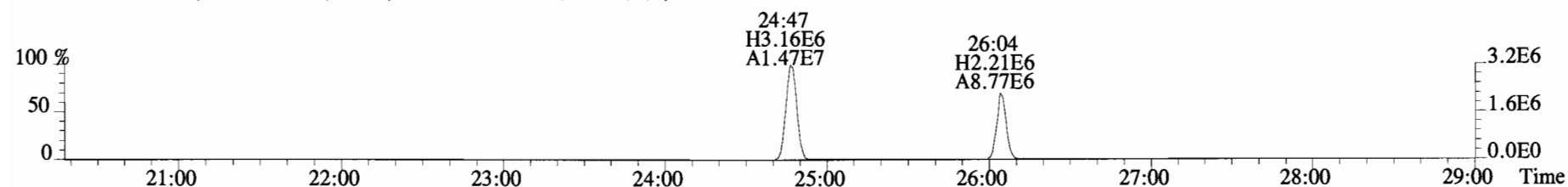
File:141217D2 #1-551 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



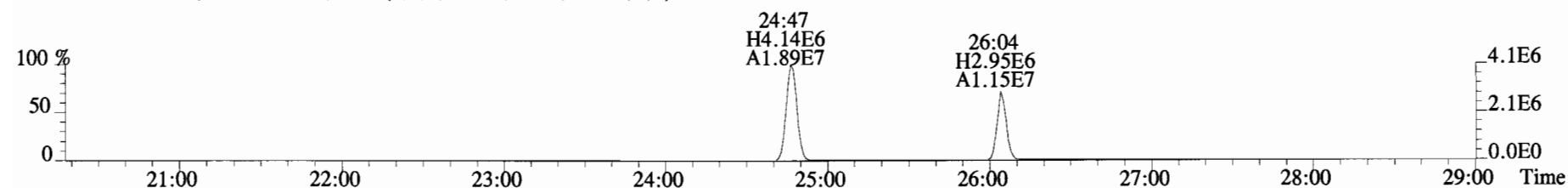
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



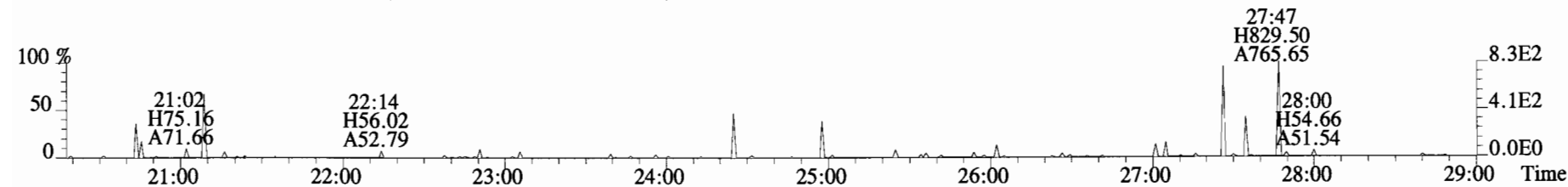
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



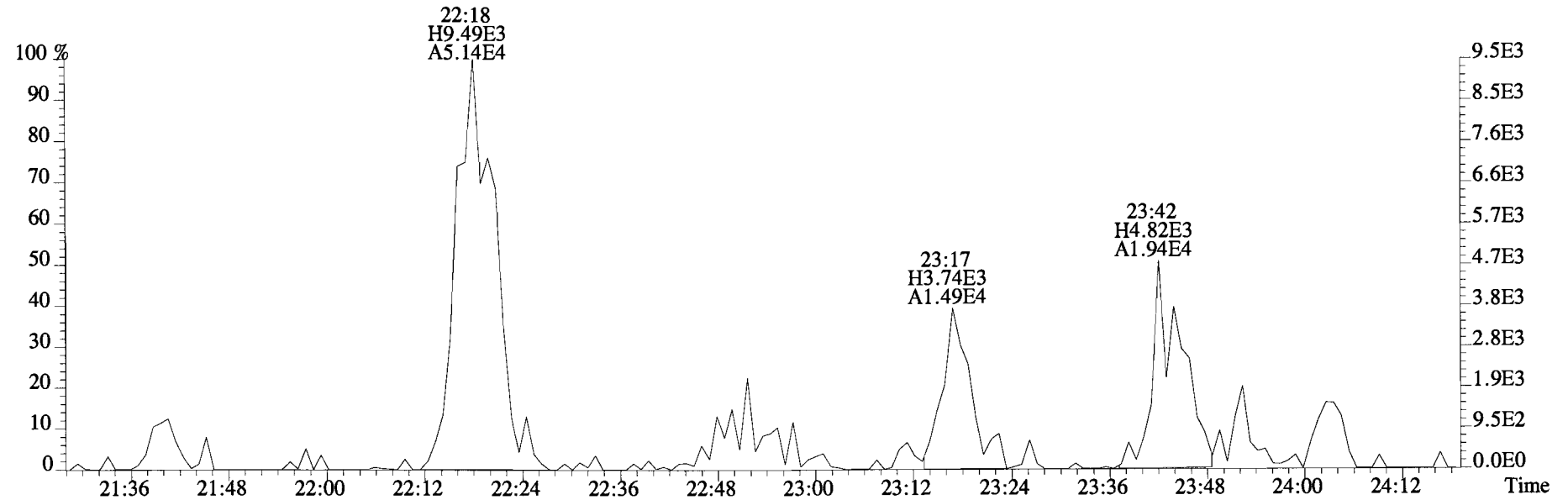
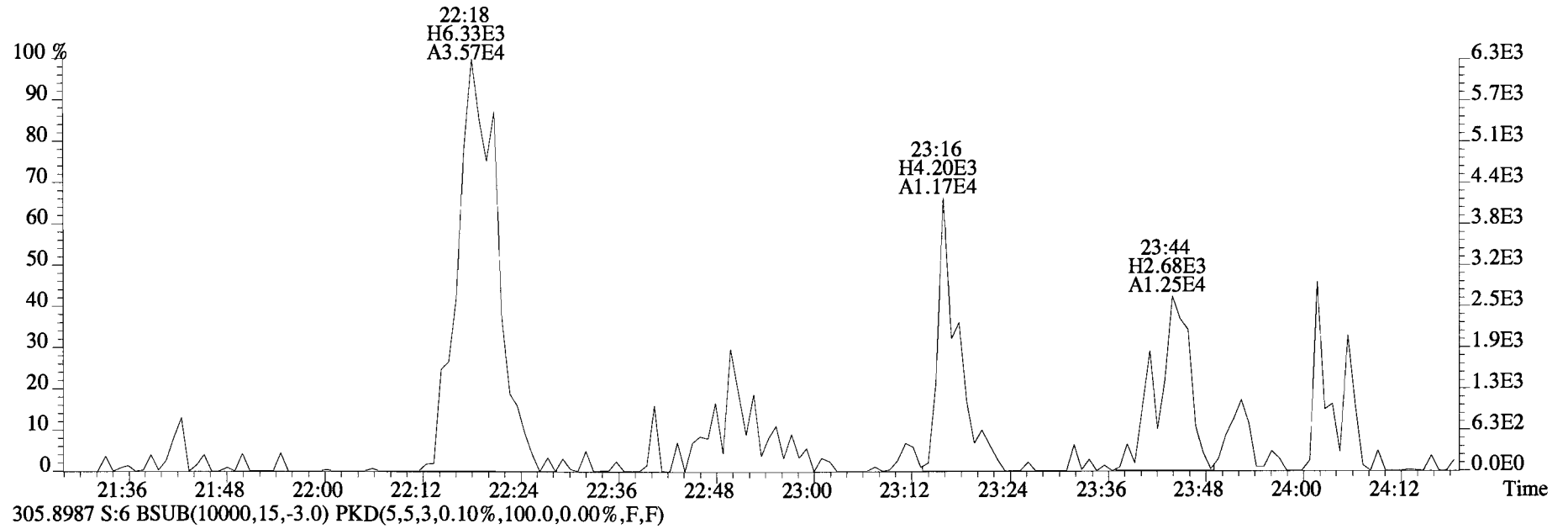
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



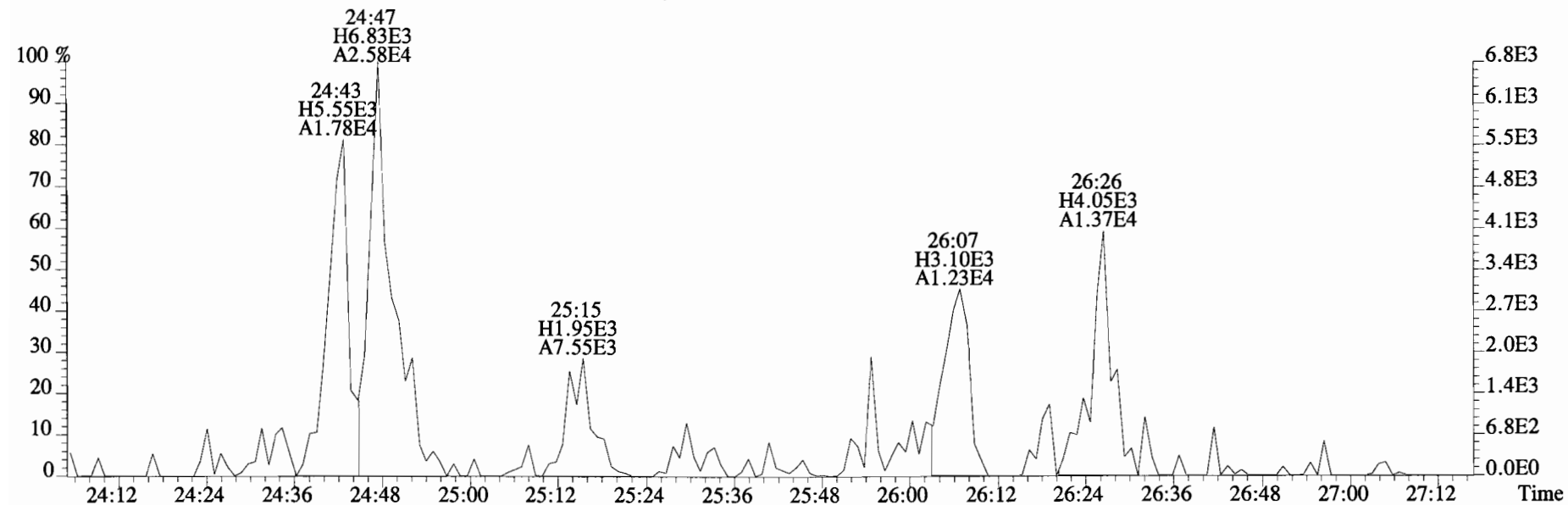
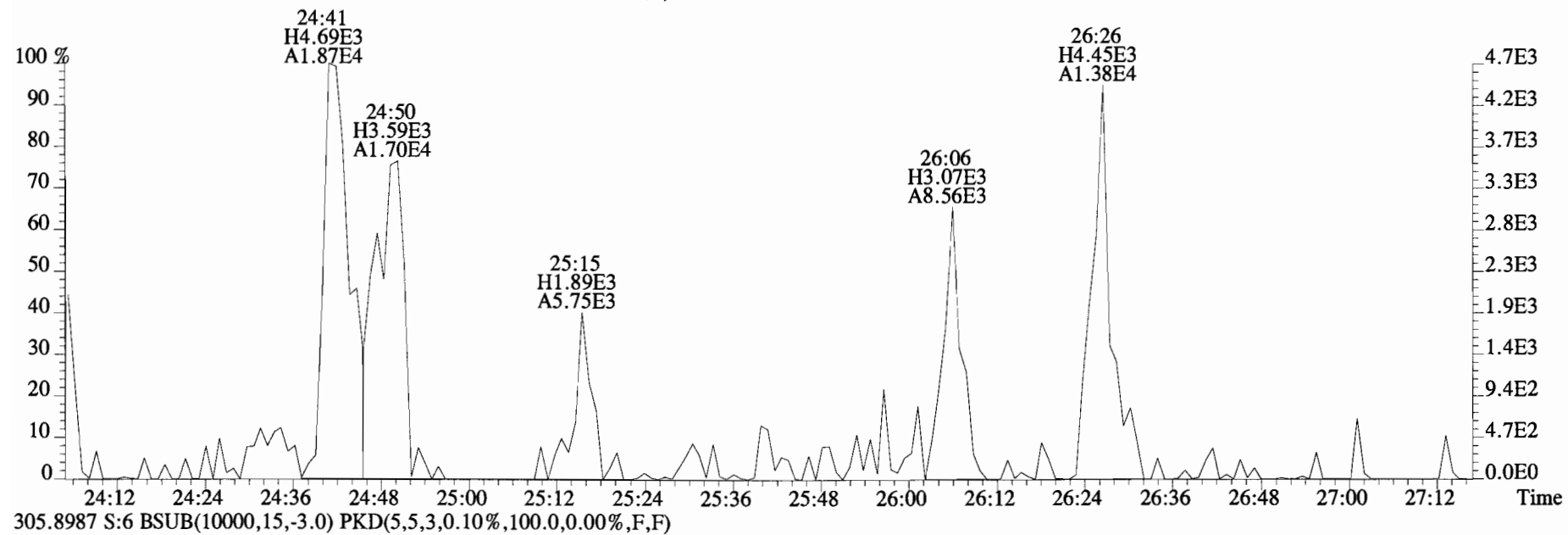
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



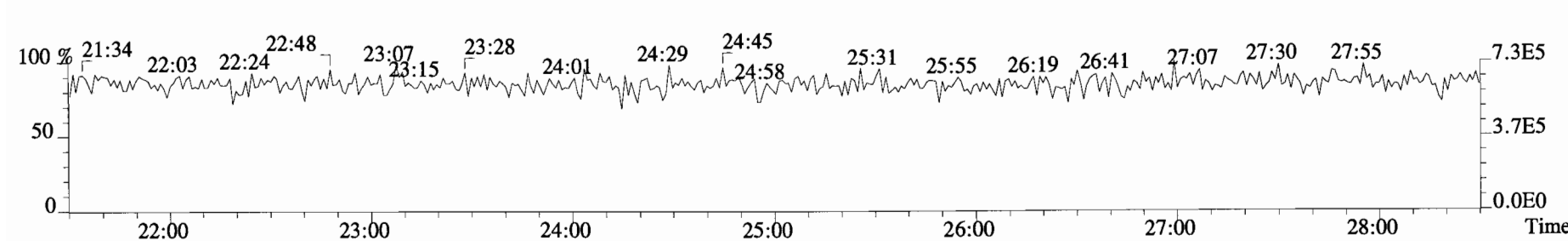
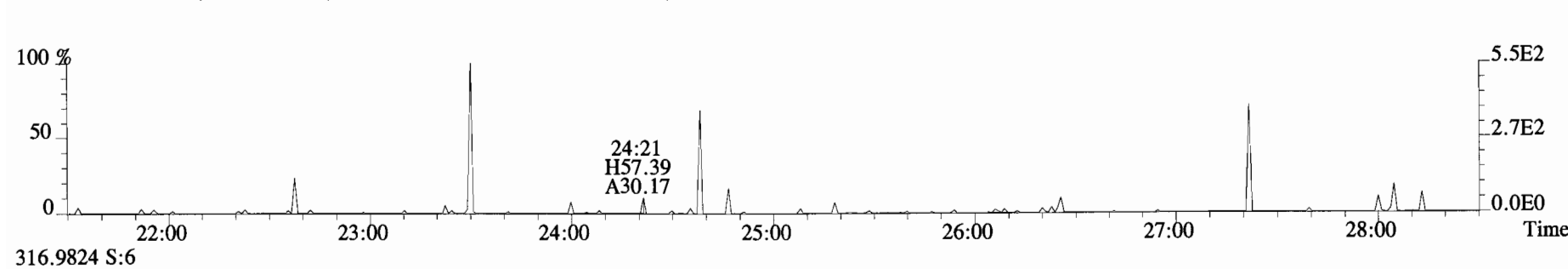
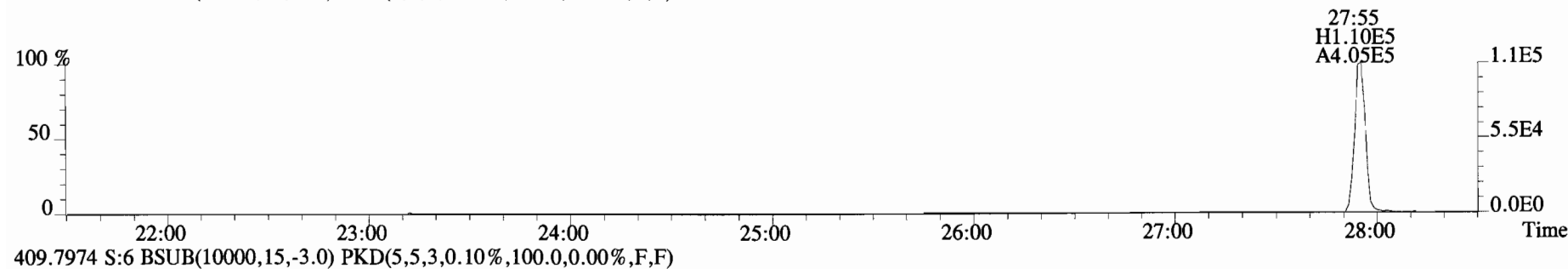
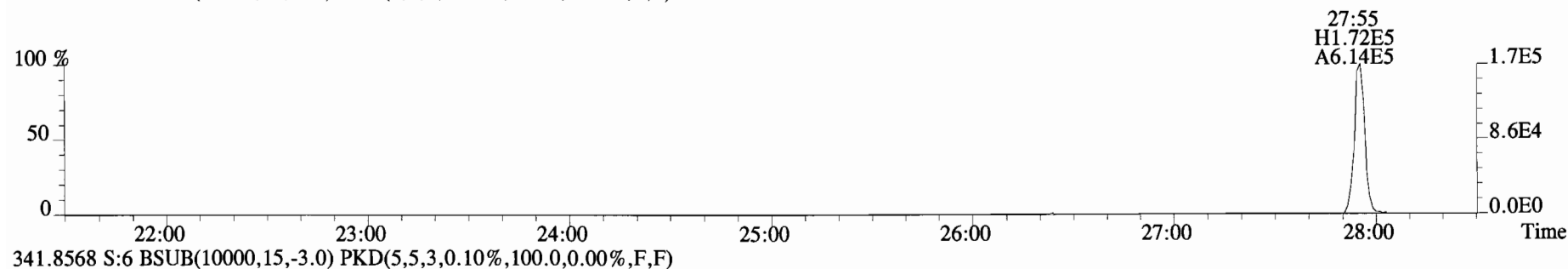
File:141217D2 #1-551 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



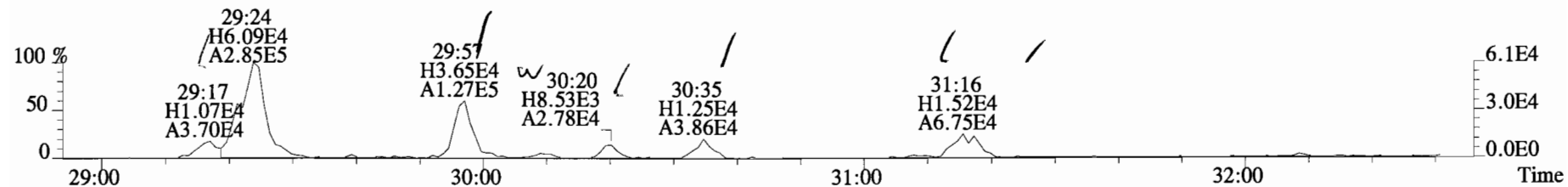
File:141217D2 #1-551 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



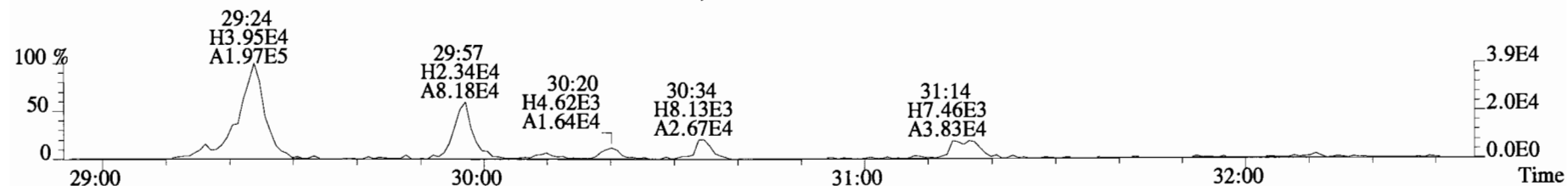
File:141217D2 #1-551 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



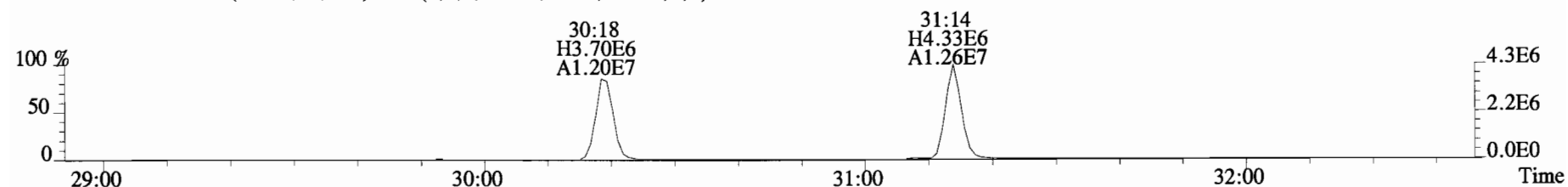
File:141217D2 #1-257 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



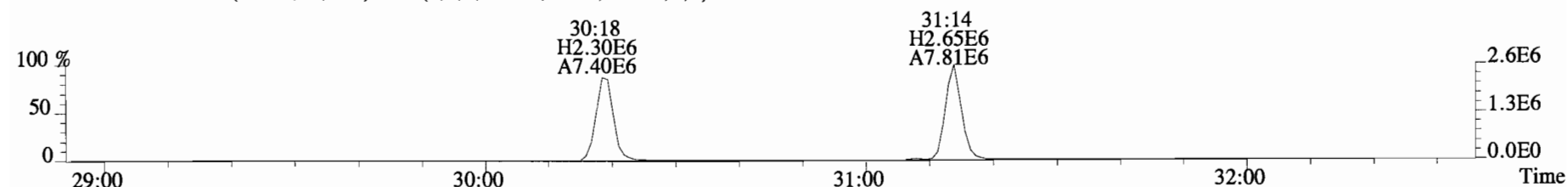
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



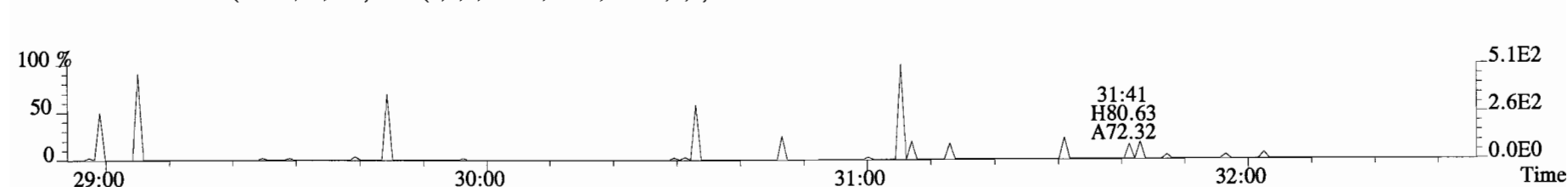
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



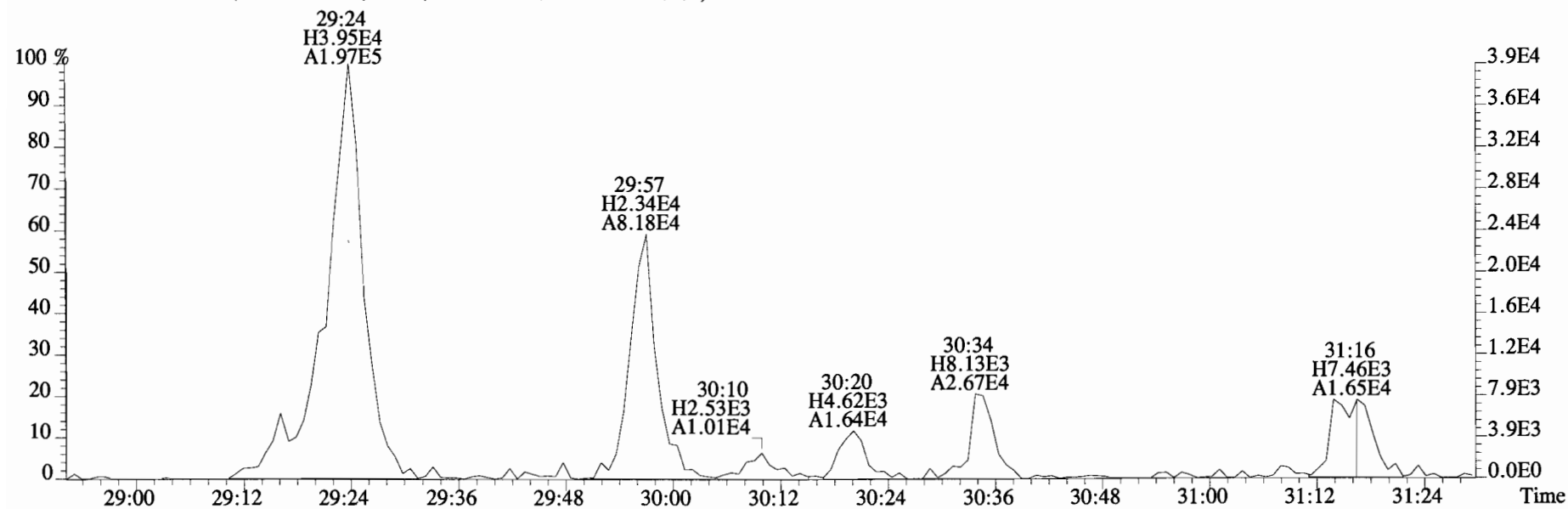
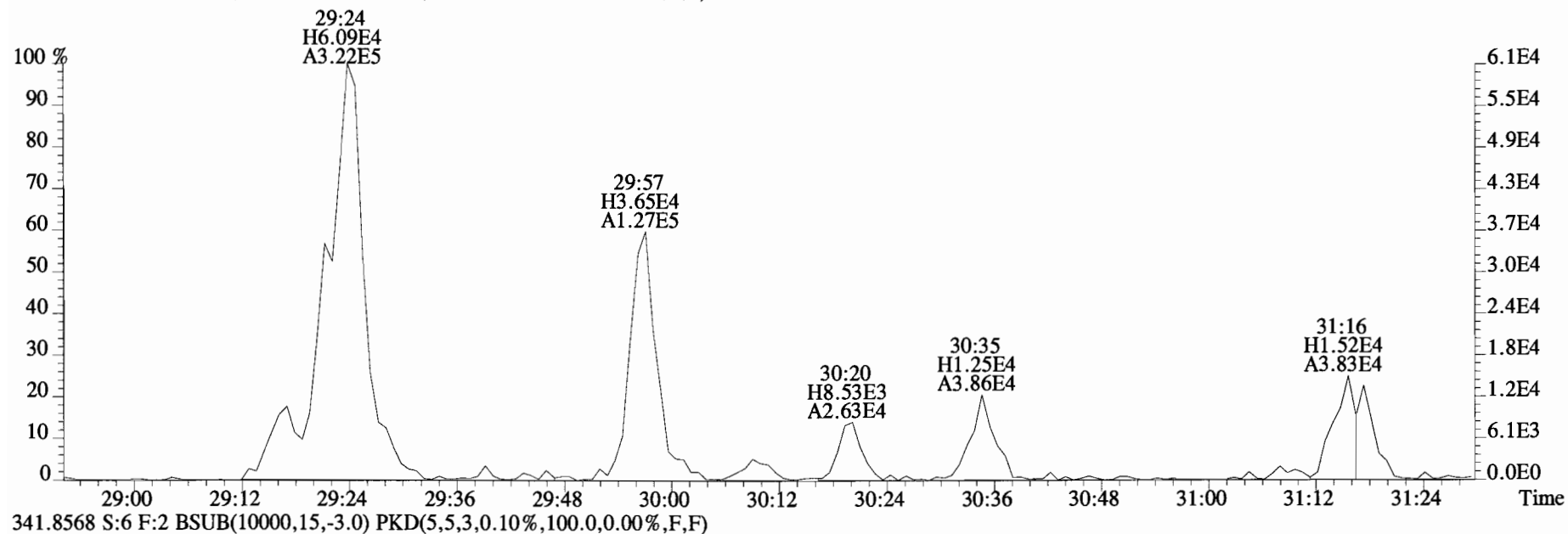
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



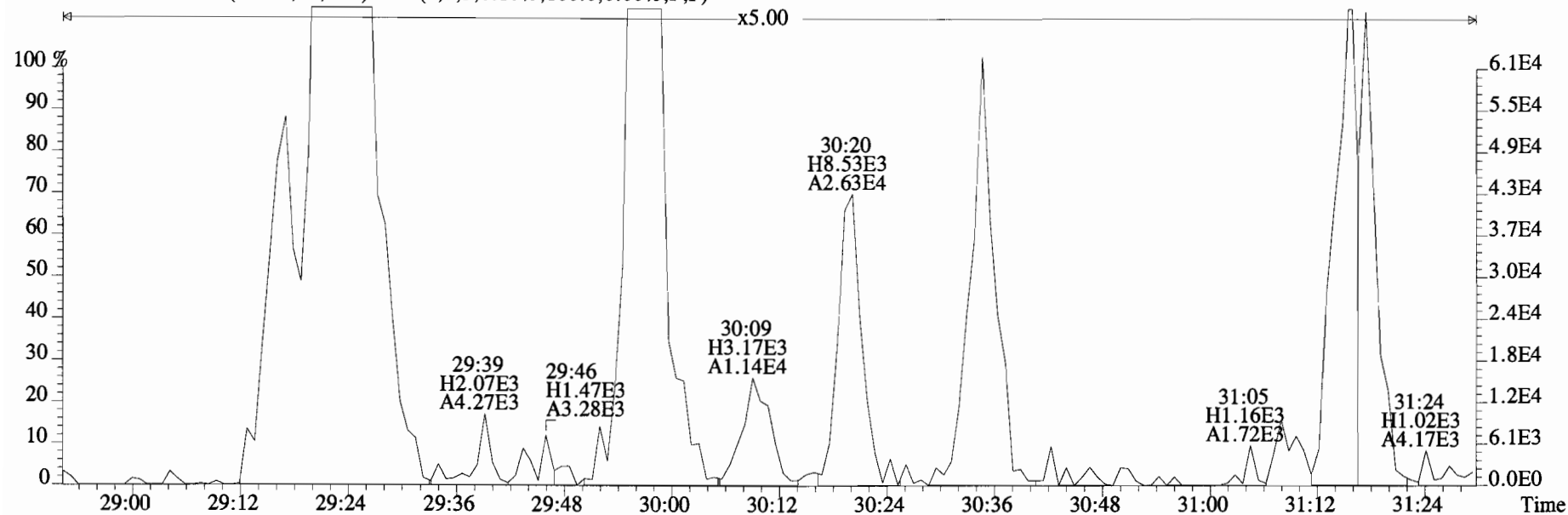
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



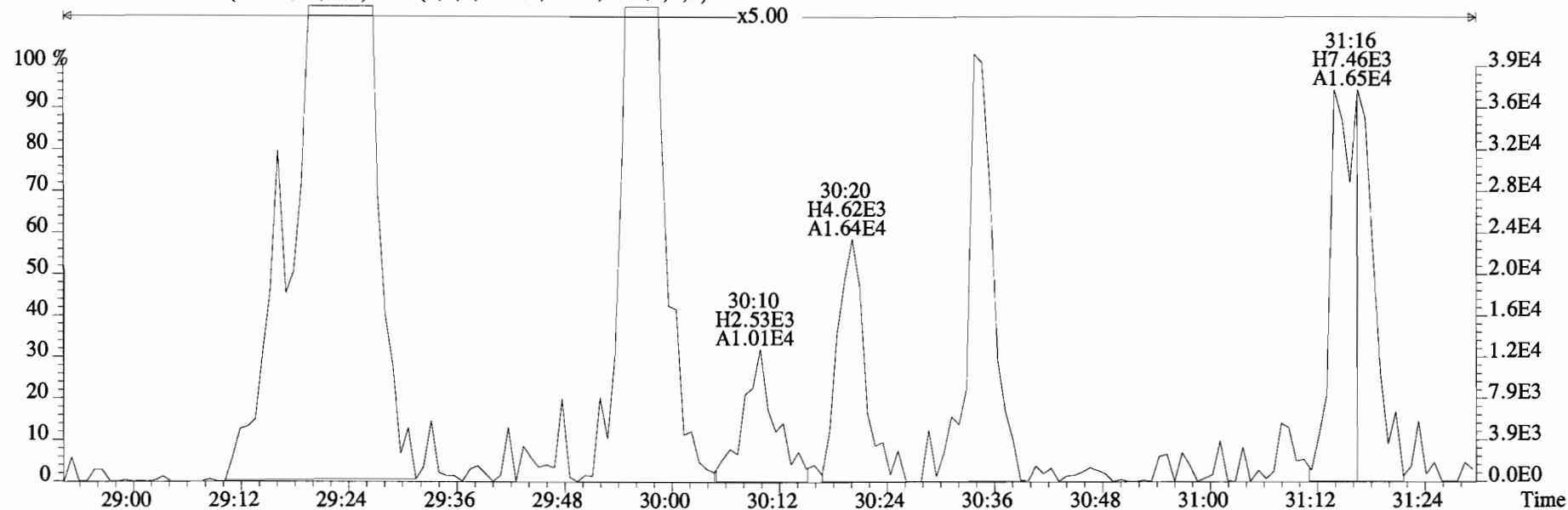
File:141217D2 #1-257 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



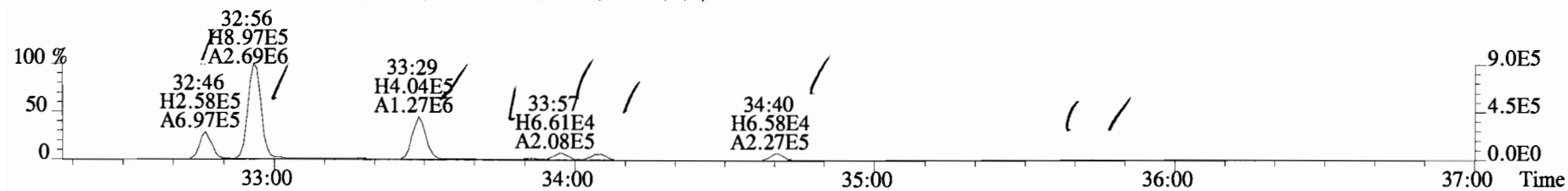
File:141217D2 #1-257 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



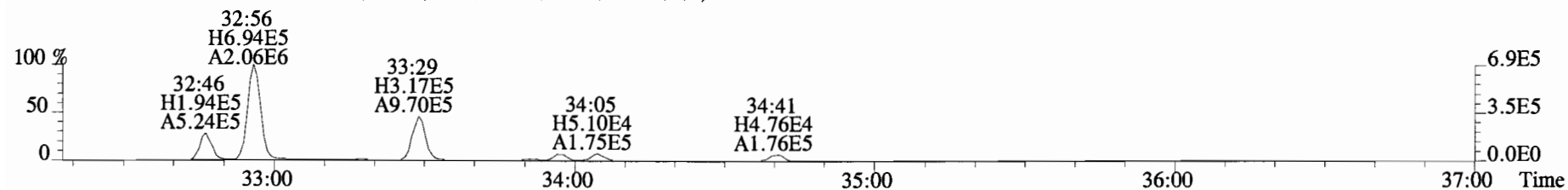
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



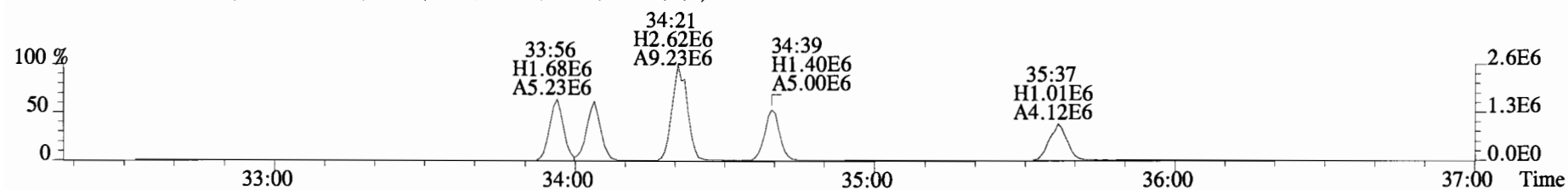
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



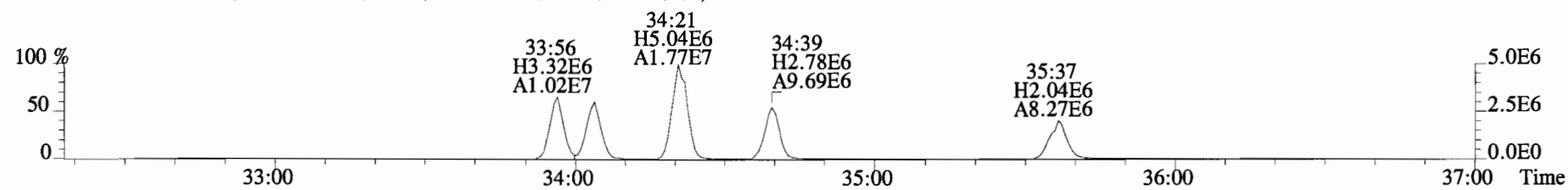
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



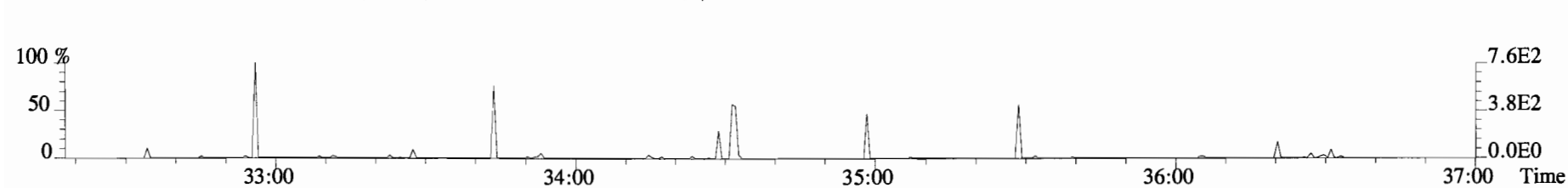
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



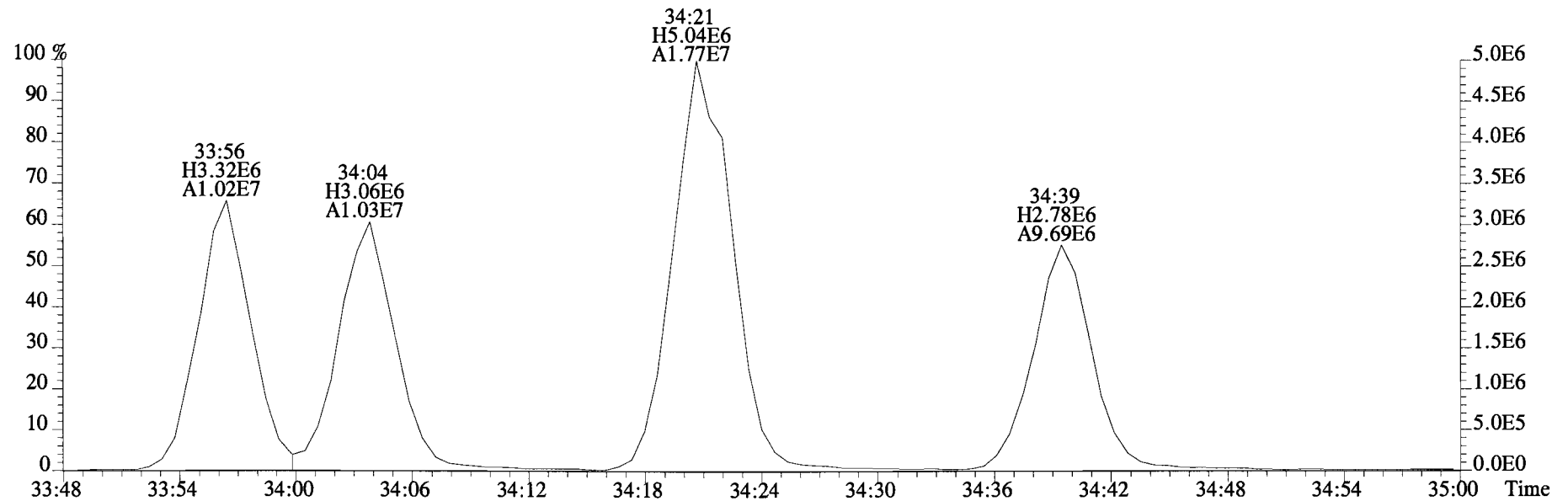
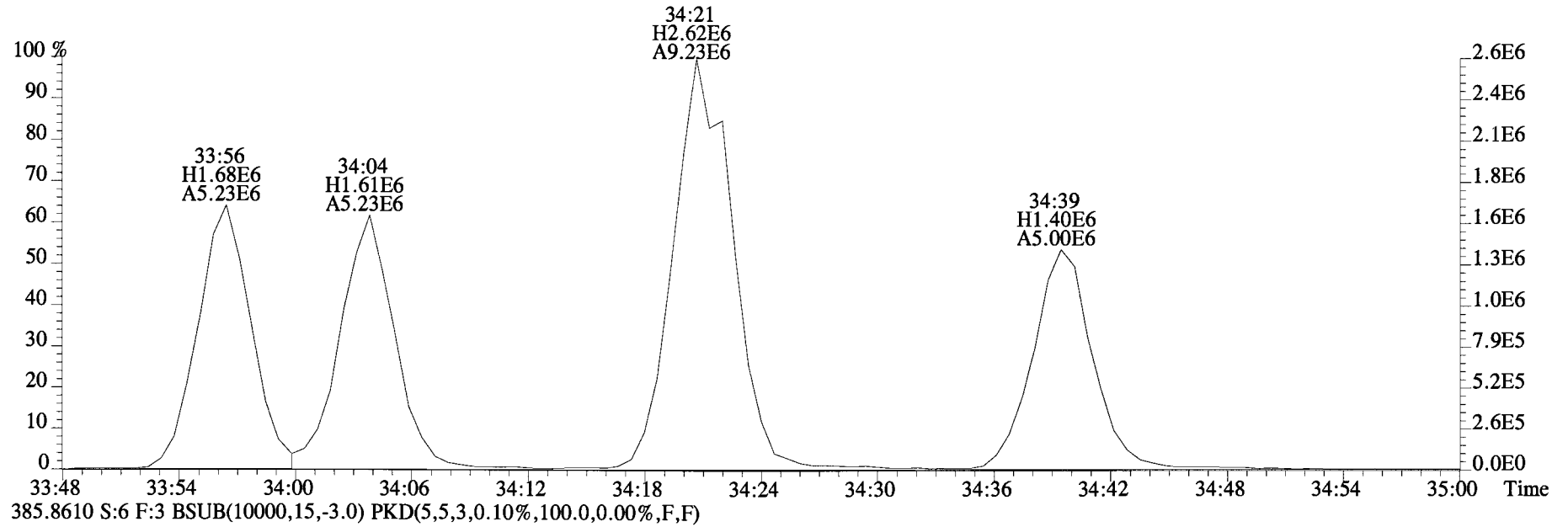
385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



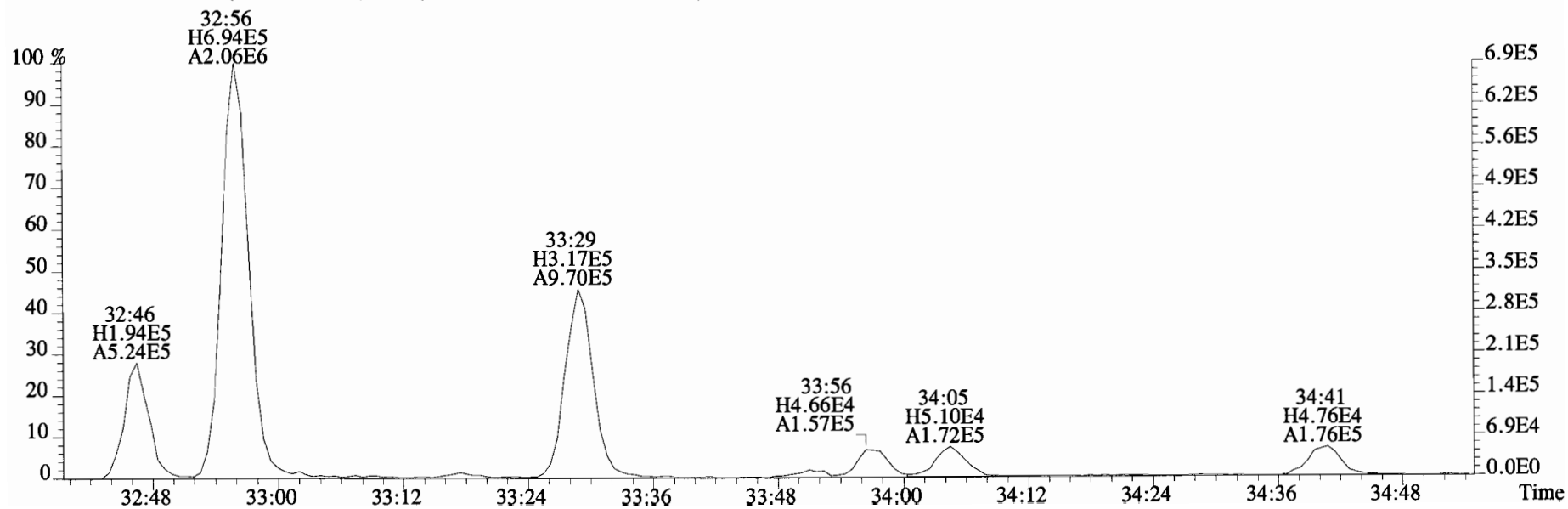
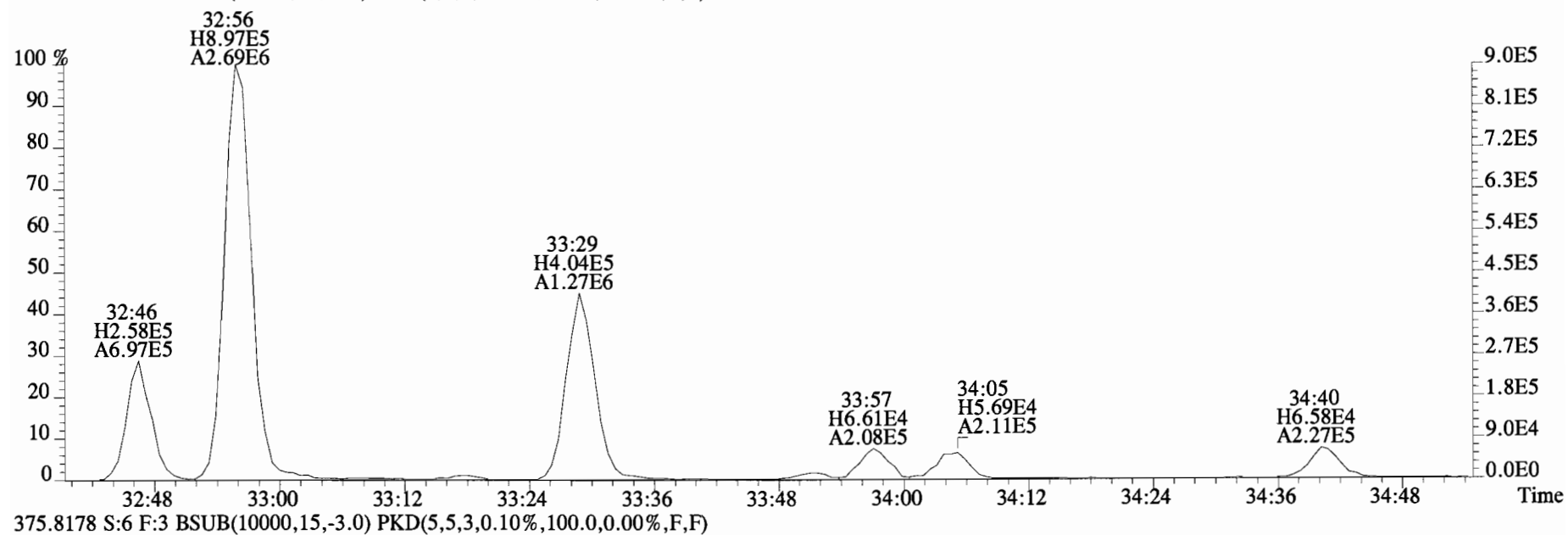
445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



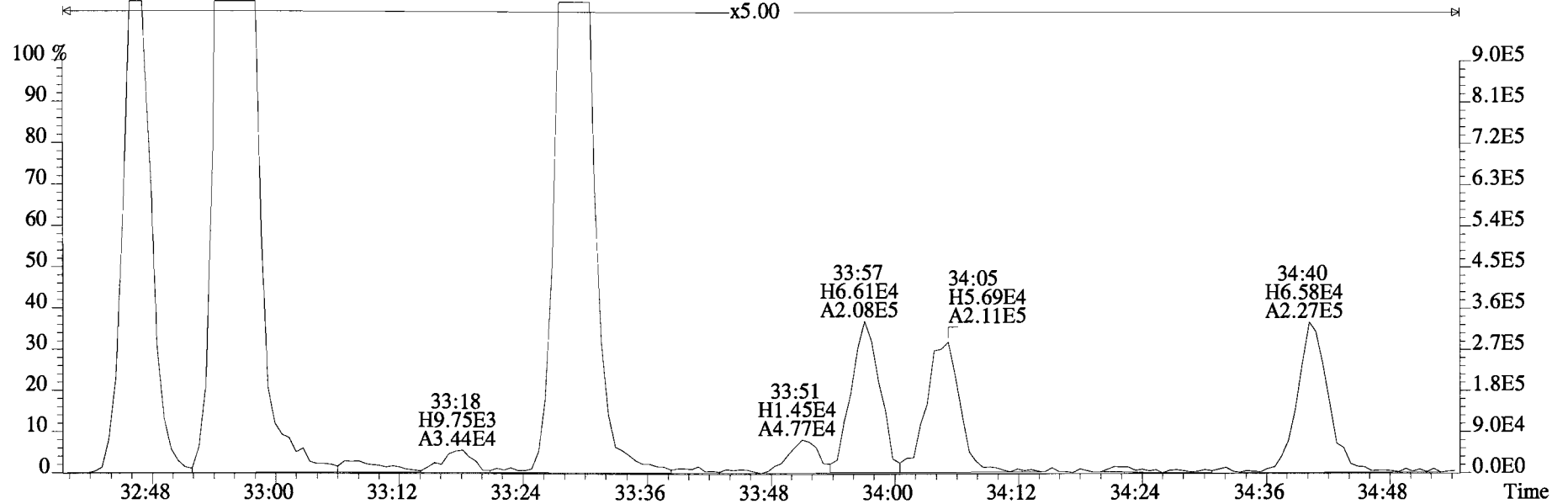
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



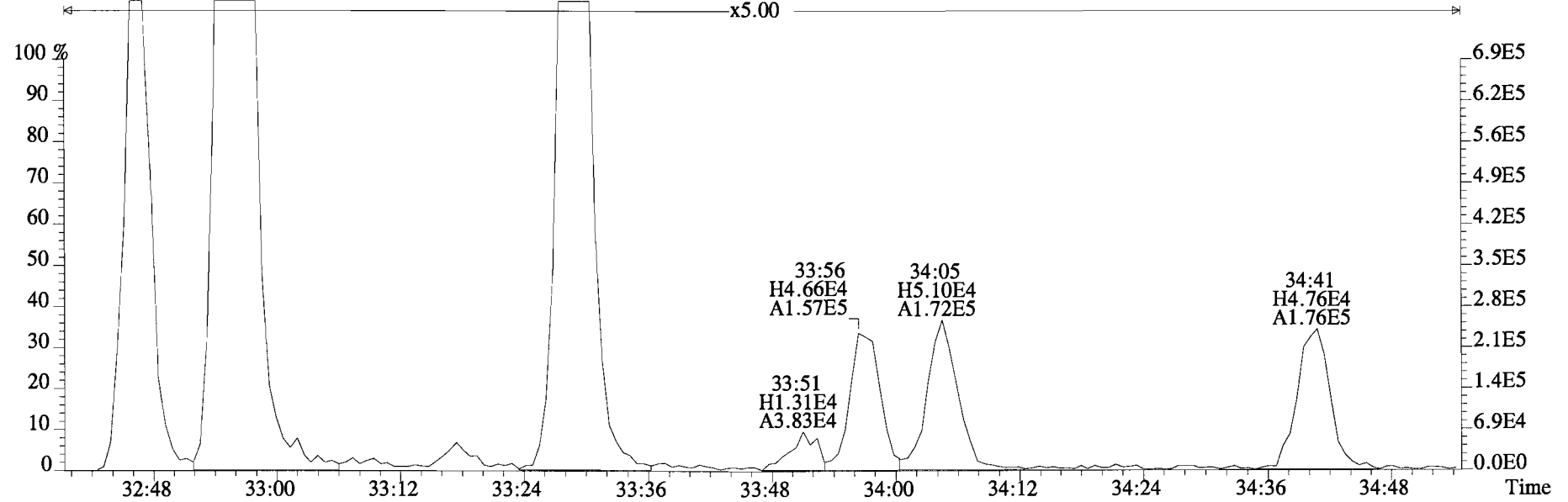
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



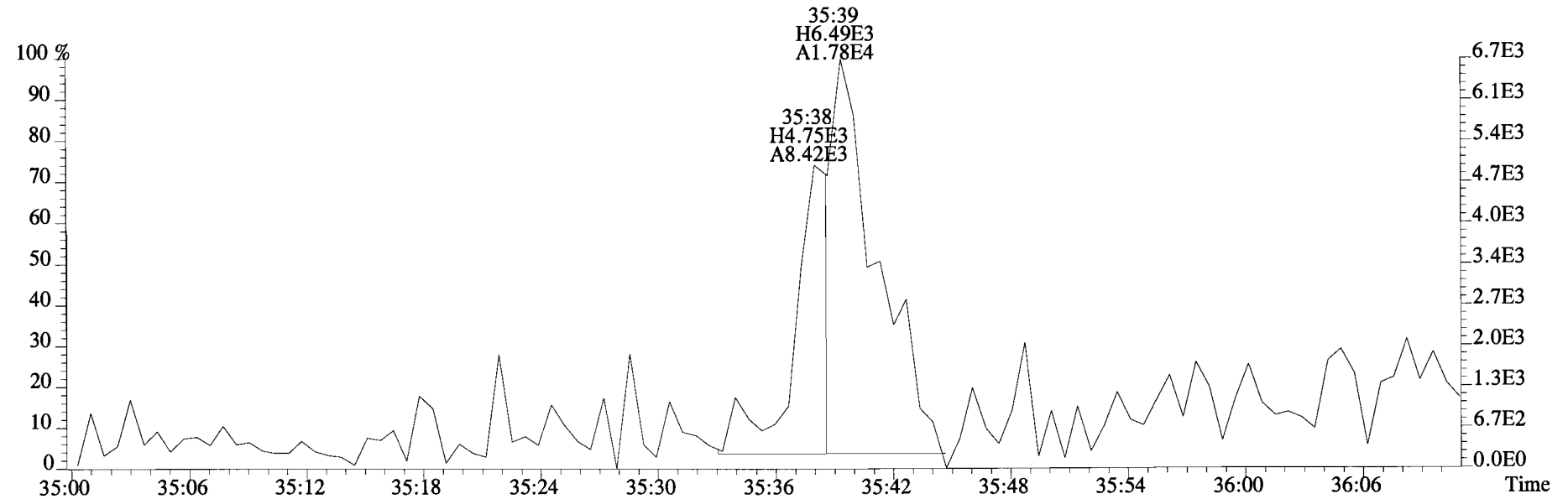
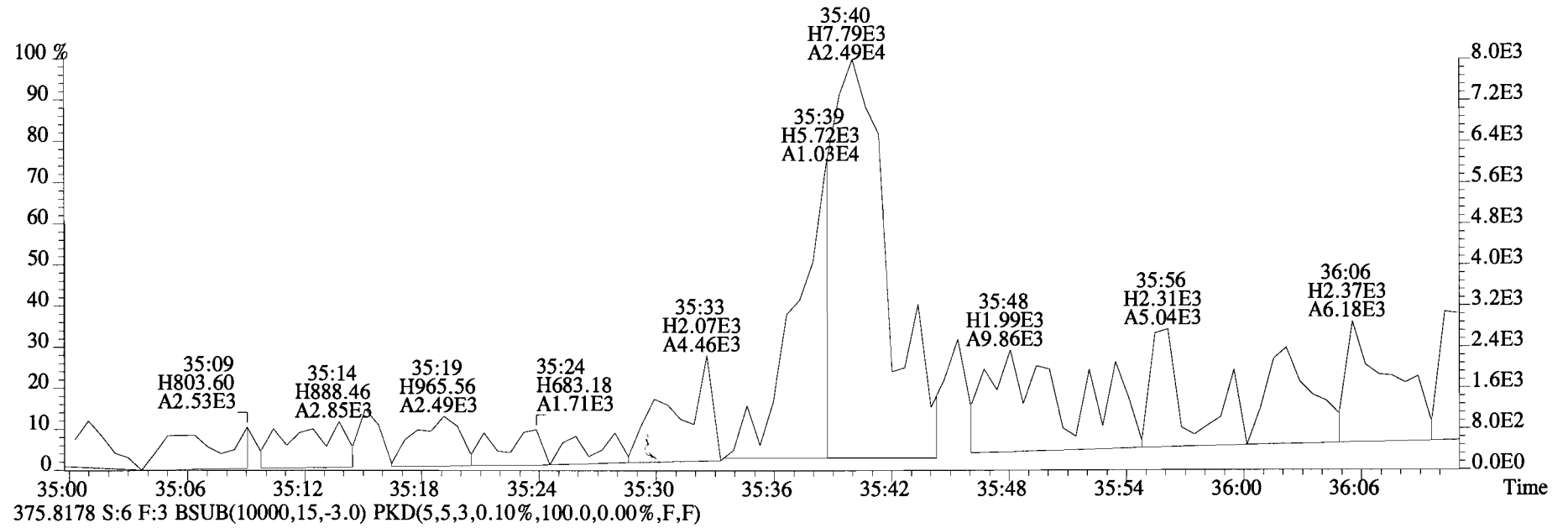
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



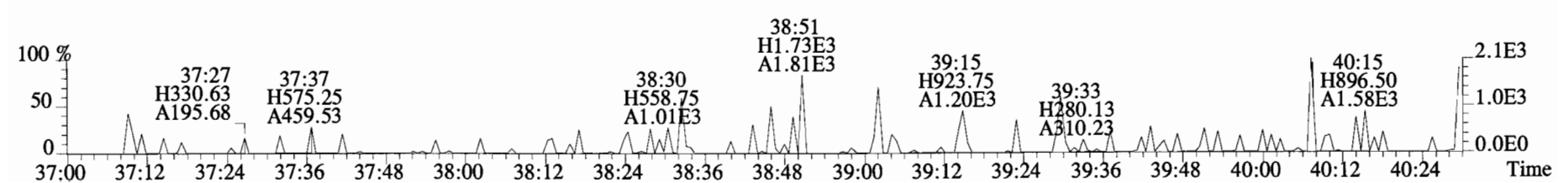
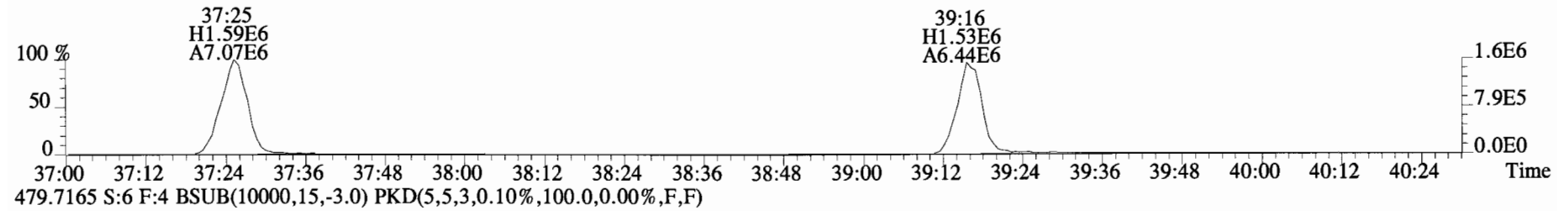
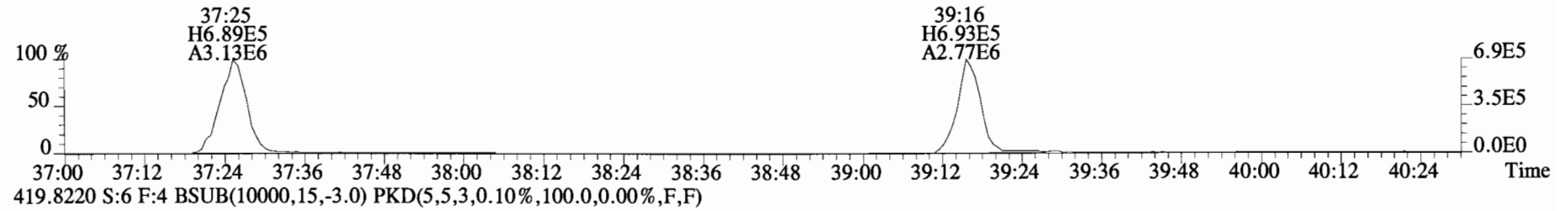
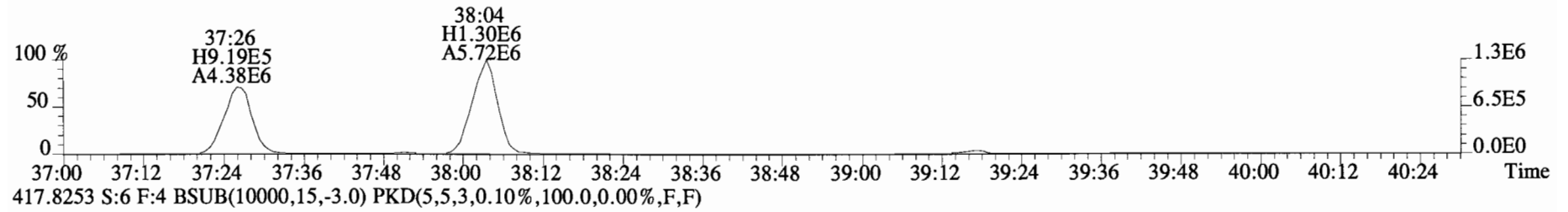
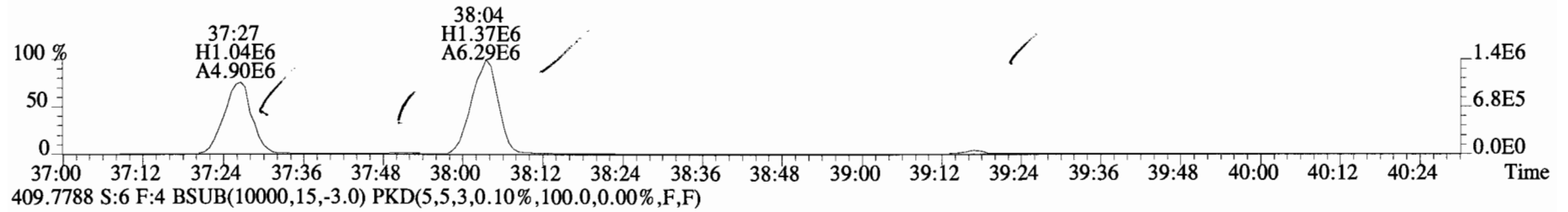
375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



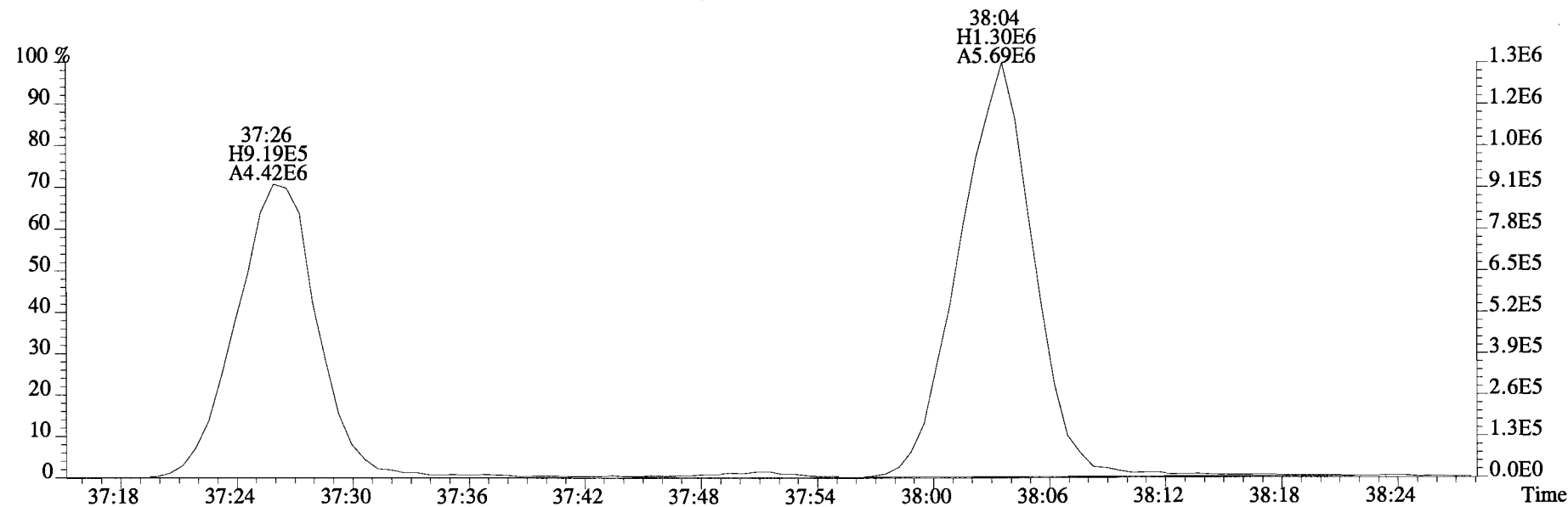
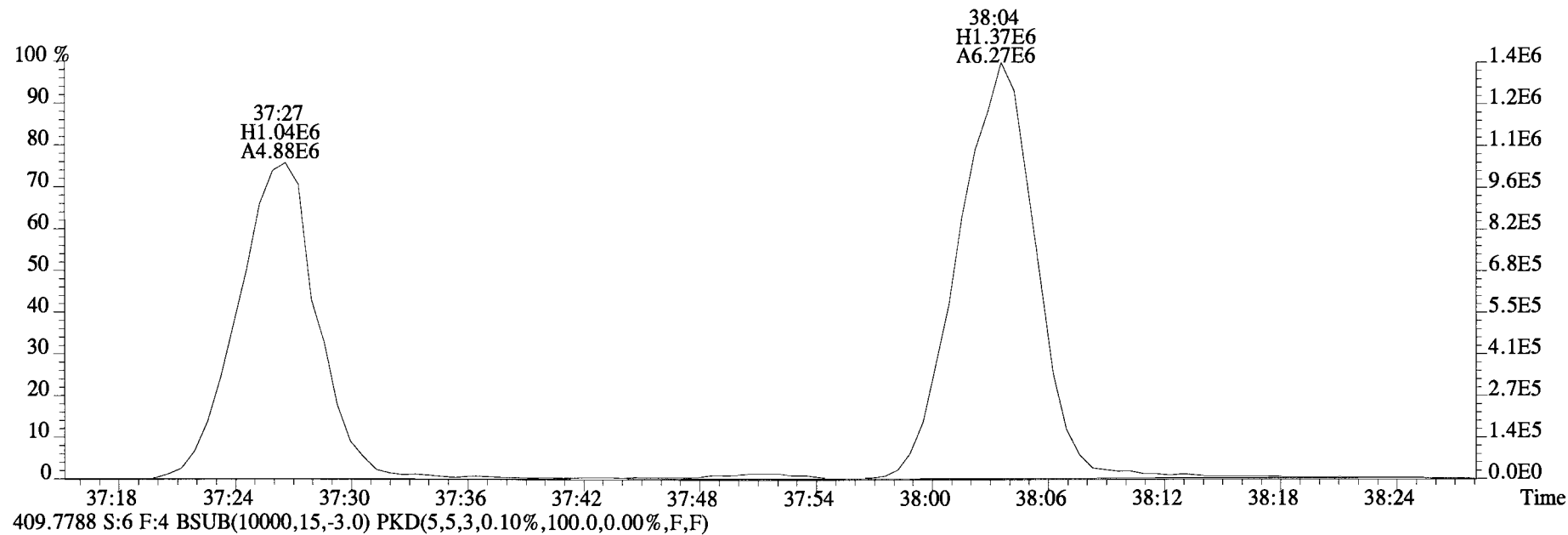
File:141217D2 #1-385 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



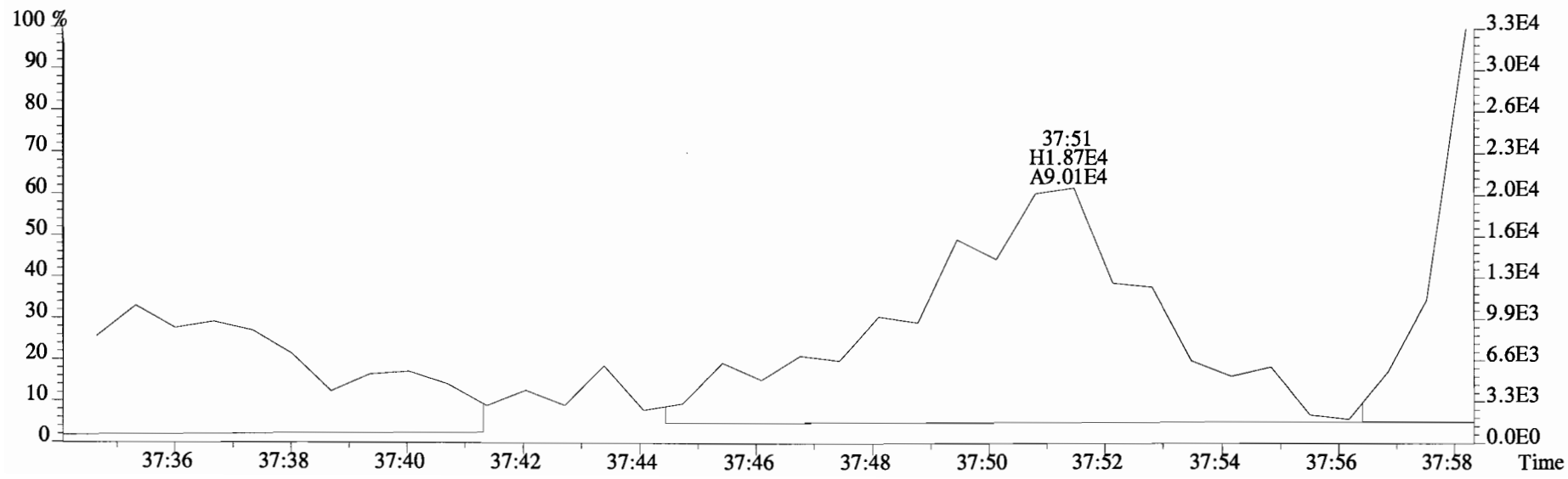
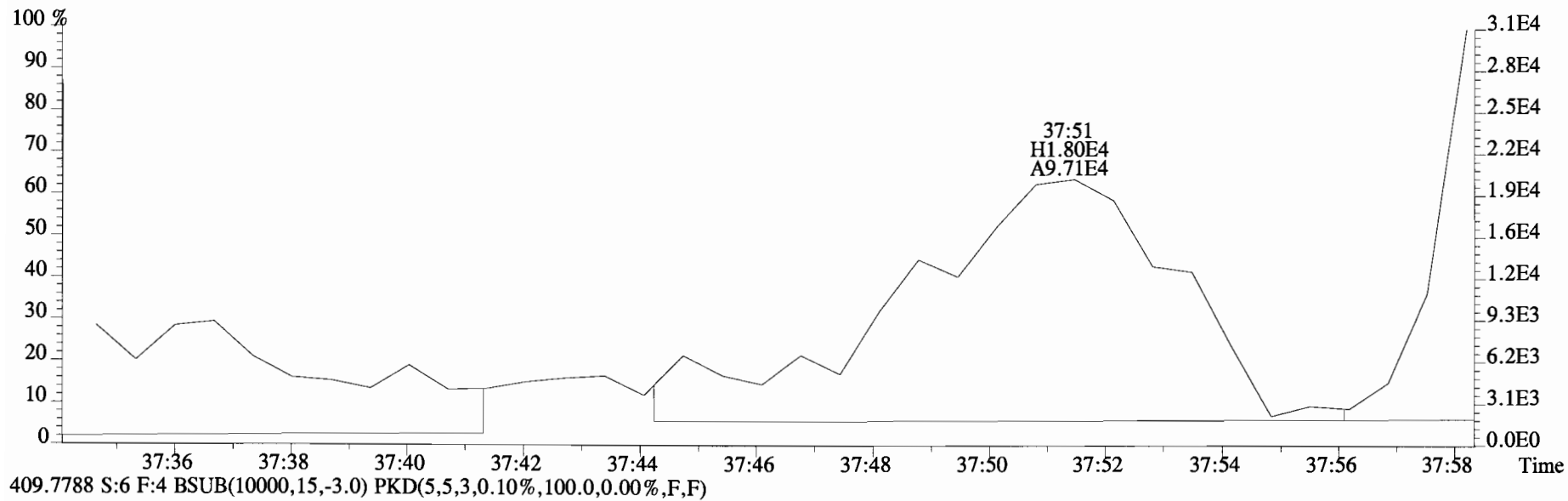
File:141217D2 #1-325 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



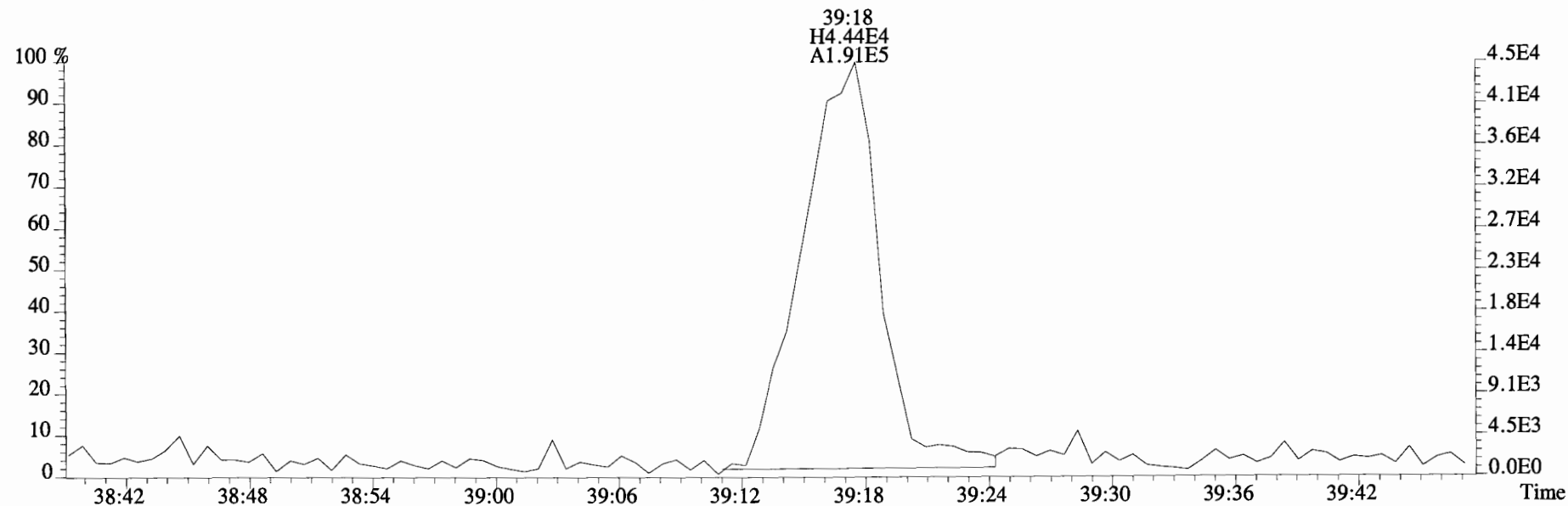
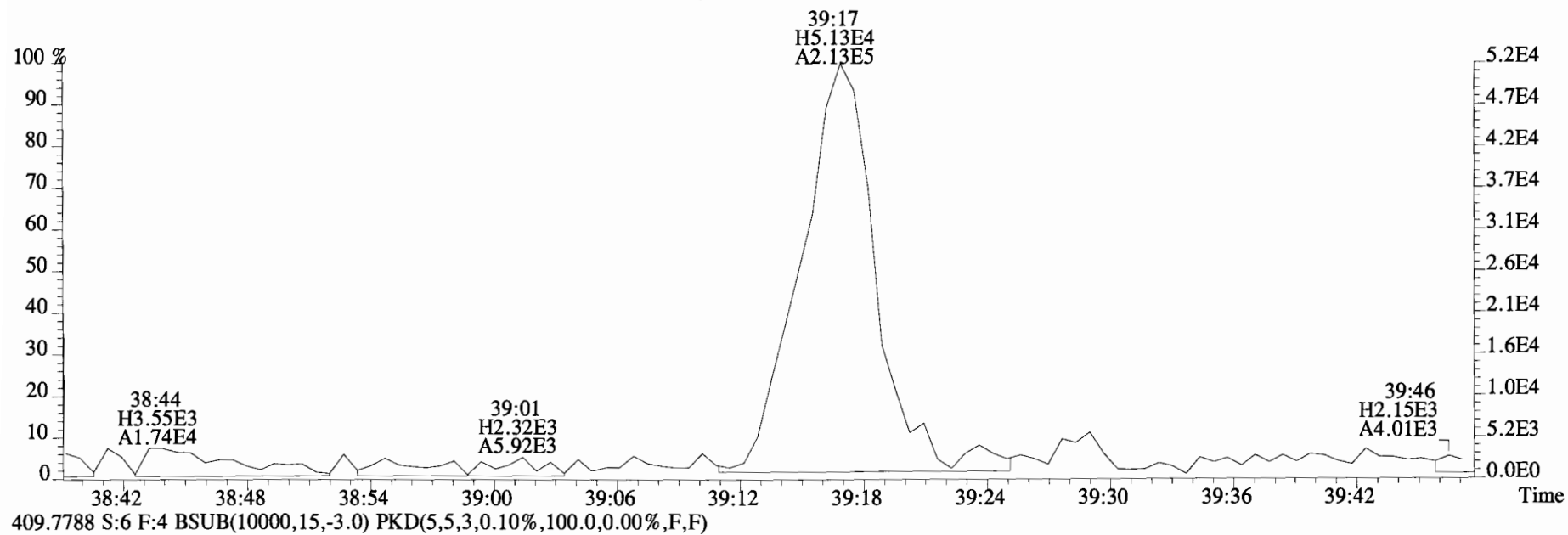
File:141217D2 #1-325 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



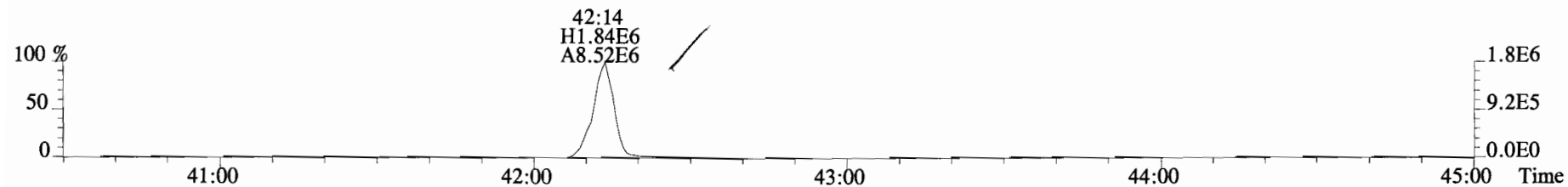
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Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
407.7818 S:6 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



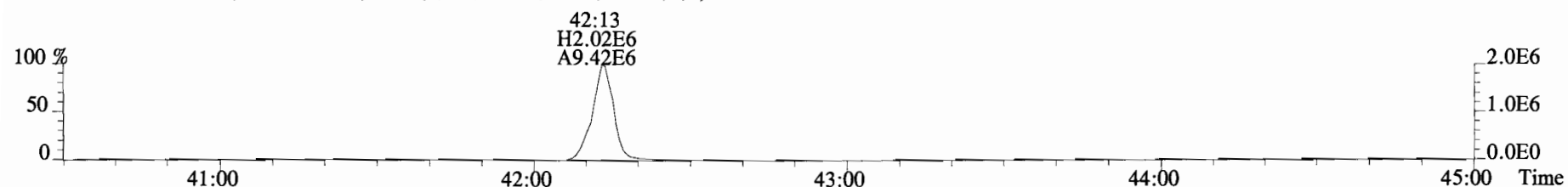
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Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



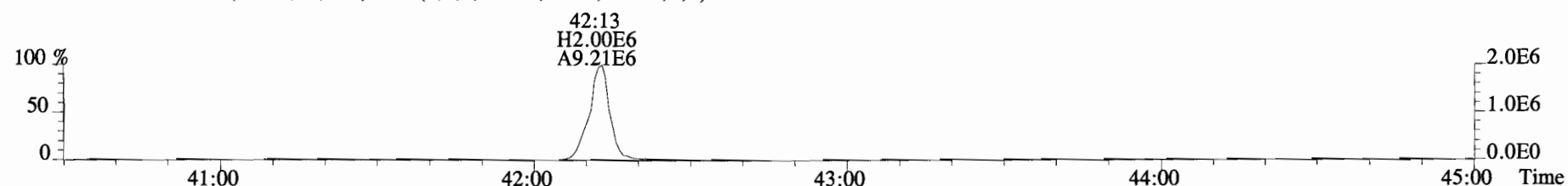
File:141217D2 #1-389 Acq:18-DEC-2014 08:03:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1400948-04 SC-MH-20-20141211-S 0.96469 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



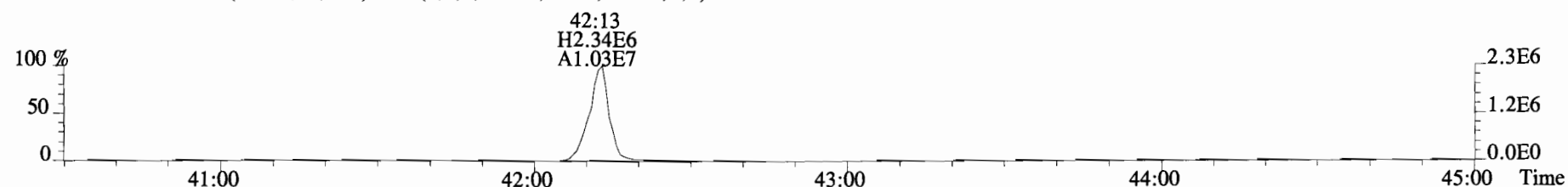
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



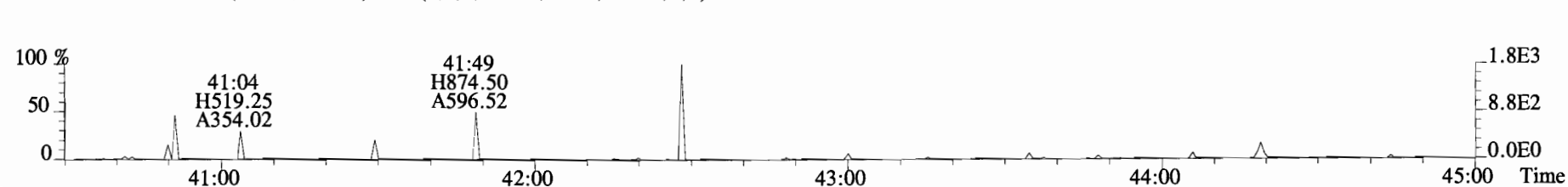
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



SAMPLE DATA
EPA Method 1668C

Client ID: Method Blank
Lab ID: B4L0127-BLK1

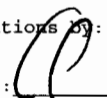
Filename: 141226E1
GC Column ID: ZB-1

S:4 Acq:26-DEC-14 14:35:58
ICal: PCBVG8-6-20-14 wt/vol: 1.000

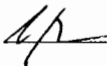
ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	* n	NotF η	1.25	*		993	2.5	1.12	*	0.996-1.006	
Mono	PCB-2	*	* n	NotF η	1.18	*		993	2.5	1.29	*	0.983-0.993	
Mono	PCB-3	*	* n	NotF η	1.22	*		993	2.5	1.25	*	0.996-1.006	
Di	PCB-4/10	*	* n	NotF η	1.55	*		721	2.5	0.849	*	0.998-1.008	
Di	PCB-7/9	*	* n	NotF η	1.27	*		721	2.5	0.687	*	0.865-0.873	
Di	PCB-6	*	* n	NotF η	1.26	*		721	2.5	0.692	*	0.890-0.899	
Di	PCB-5/8	*	* n	NotF η	1.23	*		721	2.5	0.707	*	0.906-0.916	
Di	PCB-14	*	* n	NotF η	1.23	*		721	2.5	0.626	*	0.949-0.959	
Di	PCB-11	3.81e+05	1.10 n	25:13	1.16	14.2	*	2.5		*	1.000	0.996-1.006	
Di	PCB-12/13	*	* n	NotF η	1.10	*		721	2.5	0.702	*	1.010-1.020	
Di	PCB-15	*	* n	NotF η	1.21	*		721	2.5	0.638	*	1.024-1.034	
Tri	PCB-19	*	* n	NotF η	1.30	*		797	2.5	1.02	*	0.996-1.006	
Tri	PCB-30	*	* n	NotF η	1.83	*		797	2.5	0.725	*	1.032-1.042	
Tri	PCB-18	*	* n	NotF η	0.86	*		797	2.5	1.02	*	0.949-0.959	
Tri	PCB-17	*	* n	NotF η	0.90	*		797	2.5	0.970	*	0.955-0.965	
Tri	PCB-24/27	*	* n	NotF η	1.18	*		797	2.5	0.742	*	0.976-0.986	
Tri	PCB-16/32	*	* n	NotF η	1.03	*		797	2.5	0.848	*	0.995-1.005	
Tri	PCB-34	*	* n	NotF η	1.26	*		720	2.5	0.659	*	0.956-0.966	
Tri	PCB-23	*	* n	NotF η	1.31	*		720	2.5	0.634	*	0.959-0.969	
Tri	PCB-29	*	* n	NotF η	1.33	*		720	2.5	0.625	*	0.967-0.977	
Tri	PCB-26	*	* n	NotF η	1.29	*		720	2.5	0.643	*	0.974-0.984	
Tri	PCB-25	*	* n	NotF η	1.34	*		720	2.5	0.619	*	0.980-0.990	
Tri	PCB-31	*	* n	NotF η	1.42	*		720	2.5	0.585	*	0.992-1.002	
Tri	PCB-28	9.37e+04	1.09 y	29:03	1.38	3.18	*	2.5		*	0.999	0.996-1.006	
Tri	PCB-20/21/33	*	* n	NotF η	1.31	*		720	2.5	0.634	*	1.017-1.027	
Tri	PCB-22	*	* n	NotF η	1.32	*		720	2.5	0.629	*	1.032-1.042	
Tri	PCB-36	*	* n	NotF η	1.38	*		720	2.5	0.652	*	0.929-0.939	
Tri	PCB-39	*	* n	NotF η	1.42	*		720	2.5	0.632	*	0.943-0.953	
Tri	PCB-38	*	* n	NotF η	1.35	*		720	2.5	0.663	*	0.967-0.976	
Tri	PCB-35	*	* n	NotF η	1.38	*		720	2.5	0.652	*	0.982-0.992	
Tri	PCB-37	*	* n	NotF η	1.39	*		720	2.5	0.645	*	0.996-1.006	
Tetra	PCB-54	*	* n	NotF η	1.20	*		855	2.5	0.975	*	0.996-1.006	
Tetra	PCB-50	*	* n	NotF η	0.97	*		855	2.5	1.21	*	1.037-1.047	
Tetra	PCB-53	*	* n	NotF η	1.19	*		855	2.5	1.18	*	0.941-0.951	
Tetra	PCB-51	*	* n	NotF η	1.15	*		855	2.5	1.22	*	0.952-0.962	
Tetra	PCB-45	*	* n	NotF η	0.97	*		855	2.5	1.45	*	0.966-0.976	
Tetra	PCB-46	*	* n	NotF η	0.95	*		855	2.5	1.48	*	0.982-0.992	

Integrations by:

Analyst: 

Date: 12/30/14

Reviewed by: 


Date: 12/31/14

Client ID: Method Blank
Lab ID: B4L0127-BLK1

Filename: 141226E1 S:4 Acq:26-DEC-14 14:35:58
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	* n	NotF η	1.28	*		855	2.5	1.10	*	0.996-1.006	
Tetra	PCB-73	*	* n	NotF η	1.37	*		855	2.5	1.02	*	1.000-1.010	
Tetra	PCB-43/49	*	* n	NotF η	1.11	*		855	2.5	1.26	*	1.005-1.015	
Tetra	PCB-47	*	* n	NotF η	1.13	*		855	2.5	1.22	*	0.996-1.006	
Tetra	PCB-48/75	*	* n	NotF η	1.30	*		855	2.5	1.06	*	0.999-1.009	
Tetra	PCB-65	*	* n	NotF η	1.33	*		855	2.5	1.04	*	1.007-1.017	
Tetra	PCB-62	*	* n	NotF η	1.29	*		855	2.5	1.07	*	1.011-1.021	
Tetra	PCB-44	*	* n	NotF η	0.94	*		855	2.5	1.47	*	1.020-1.030	
Tetra	PCB-42/59	*	* n	NotF η	1.22	*		855	2.5	1.14	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	* n	NotF η	1.31	*		855	2.5	1.05	*	1.046-1.056	
Tetra	PCB-68	*	* n	NotF η	1.49	*		855	2.5	0.930	*	1.054-1.064	
Tetra	PCB-40	*	* n	NotF η	0.82	*		855	2.5	1.69	*	1.061-1.071	
Tetra	PCB-57	*	* n	NotF η	1.11	*		855	2.5	0.920	*	0.965-0.975	
Tetra	PCB-67	*	* n	NotF η	1.07	*		855	2.5	0.954	*	0.974-0.984	
Tetra	PCB-58	*	* n	NotF η	1.10	*		855	2.5	0.930	*	0.977-0.987	
Tetra	PCB-63	*	* n	NotF η	1.12	*		855	2.5	0.917	*	0.982-0.992	
Tetra	PCB-74	*	* n	NotF η	1.20	*		855	2.5	0.851	*	0.990-1.000	
Tetra	PCB-61/70	*	* n	NotF η	1.08	*		855	2.5	0.949	*	0.994-1.004	
Tetra	PCB-76/66	*	* n	NotF η	1.14	*		855	2.5	0.902	*	1.001-1.011	
Tetra	PCB-80	*	* n	NotF η	1.28	*		855	2.5	0.774	*	0.996-1.006	
Tetra	PCB-55	*	* n	NotF η	1.11	*		855	2.5	0.891	*	1.005-1.015	
Tetra	PCB-56/60	*	* n	NotF η	1.09	*		855	2.5	0.910	*	1.018-1.028	
Tetra	PCB-79	*	* n	NotF η	1.12	*		855	2.5	0.880	*	1.048-1.058	
Tetra	PCB-78	*	* n	NotF η	1.24	*		855	2.5	0.903	*	0.982-0.992	
Tetra	PCB-81	*	* n	NotF η	1.38	*		855	2.5	0.809	*	0.995-1.005	
Tetra	PCB-77	*	* n	NotF η	1.21	*		855	2.5	0.813	*	0.995-1.005	
Penta	PCB-104	*	* n	NotF η	1.26	*		657	2.5	1.60	*	0.996-1.006	
Penta	PCB-96	*	* n	NotF η	1.09	*		657	2.5	1.85	*	1.034-1.044	
Penta	PCB-103	*	* n	NotF η	0.93	*		657	2.5	2.16	*	1.050-1.060	
Penta	PCB-100	*	* n	NotF η	1.00	*		657	2.5	2.01	*	1.061-1.071	
Penta	PCB-94	*	* n	NotF η	1.11	*		657	2.5	2.38	*	0.981-0.991	
Penta	PCB-95/98/102	*	* n	NotF η	1.21	*		657	2.5	2.17	*	0.994-1.004	
Penta	PCB-93	*	* n	NotF η	1.13	*		657	2.5	2.33	*	0.998-1.008	
Penta	PCB-88/91	*	* n	NotF η	1.02	*		657	2.5	2.59	*	1.006-1.016	
Penta	PCB-121	*	* n	NotF η	1.90	*		657	2.5	1.38	*	1.009-1.019	
Penta	PCB-84/92	*	* n	NotF η	1.05	*		657	2.5	2.36	*	0.986-0.996	
Penta	PCB-89	*	* n	NotF η	1.02	*		657	2.5	2.44	*	0.991-1.001	

Analyst: 

Date: 12/30/14

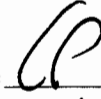
Client ID: Method Blank
Lab ID: B4L0127-BLK1

Filename: 141226E1
GC Column ID: ZB-1

S:4 Acq:26-DEC-14 14:35:58
ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	5.59e+04	1.10	n 37:29	1.19	5.45	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-113	*	*	n Not F ₇	1.35	*	657	2.5	1.84	*	*	1.002-1.012	
Penta	PCB-99	*	*	n Not F ₇	1.29	*	657	2.5	1.93	*	*	1.005-1.015	
Penta	PCB-119	*	*	n Not F ₇	1.72	*	657	2.5	1.50	*	*	0.982-0.992	
Penta	PCB-108/112	*	*	n Not F ₇	1.29	*	657	2.5	2.01	*	*	0.986-0.996	
Penta	PCB-83	*	*	n Not F ₇	1.52	*	657	2.5	1.70	*	*	0.991-1.001	
Penta	PCB-97	*	*	n Not F ₇	1.25	*	657	2.5	2.07	*	*	0.996-1.006	
Penta	PCB-86	*	*	n Not F ₇	1.02	*	657	2.5	2.53	*	*	1.000-1.010	
Penta	PCB-87/117/125	*	*	n Not F ₇	1.56	*	657	2.5	1.66	*	*	1.002-1.012	
Penta	PCB-111/115	*	*	n Not F ₇	1.75	*	657	2.5	1.47	*	*	1.007-1.017	
Penta	PCB-85/116	*	*	n Not F ₇	1.30	*	657	2.5	1.98	*	*	1.010-1.020	
Penta	PCB-120	*	*	n Not F ₇	1.78	*	657	2.5	1.45	*	*	1.016-1.026	
Penta	PCB-110	*	*	n Not F ₇	1.68	*	657	2.5	1.54	*	*	1.020-1.030	
Penta	PCB-82	*	*	n Not F ₇	0.74	*	657	2.5	2.65	*	*	0.972-0.982	
Penta	PCB-124	*	*	n Not F ₇	1.32	*	657	2.5	1.48	*	*	0.988-0.998	
Penta	PCB-107/109	*	*	n Not F ₇	1.22	*	657	2.5	1.60	*	*	0.991-1.001	
Penta	PCB-123	*	*	n Not F ₇	1.22	*	657	2.5	1.61	*	*	0.995-1.005	
Penta	PCB-106/118	5.56e+04	1.31	n 41:31	1.22	3.97	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	*	*	n Not F ₇	1.36	*	555	2.5	0.835	*	*	0.995-1.005	
Penta	PCB-122	*	*	n Not F ₇	1.24	*	555	2.5	0.915	*	*	0.999-1.009	
Penta	PCB-105	*	*	n Not F ₇	1.28	*	555	2.5	0.826	*	*	0.995-1.005	
Penta	PCB-127	*	*	n Not F ₇	1.14	*	555	2.5	0.848	*	*	0.995-1.005	
Penta	PCB-126	*	*	n Not F ₇	1.28	*	555	2.5	0.844	*	*	0.995-1.005	
Hexa	PCB-155	*	*	n Not F ₇	1.14	*	480	2.5	1.56	*	*	0.966-1.006	
Hexa	PCB-150	*	*	n Not F ₇	1.06	*	480	2.5	1.66	*	*	1.030-1.040	
Hexa	PCB-152	*	*	n Not F ₇	1.10	*	480	2.5	1.61	*	*	1.043-1.053	
Hexa	PCB-145	*	*	n Not F ₇	1.09	*	480	2.5	1.62	*	*	1.055-1.065	
Hexa	PCB-136	*	*	n Not F ₇	1.08	*	480	2.5	1.63	*	*	1.064-1.074	
Hexa	PCB-148	*	*	n Not F ₇	0.74	*	480	2.5	2.39	*	*	1.066-1.076	
Hexa	PCB-154	*	*	n Not F ₇	0.88	*	480	2.5	2.00	*	*	1.079-1.089	
Hexa	PCB-151	*	*	n Not F ₇	0.81	*	480	2.5	2.18	*	*	1.097-1.107	
Hexa	PCB-135	*	*	n Not F ₇	0.78	*	480	2.5	2.27	*	*	1.101-1.113	
Hexa	PCB-144	*	*	n Not F ₇	0.82	*	480	2.5	2.16	*	*	1.105-1.116	
Hexa	PCB-147	*	*	n Not F ₇	0.83	*	480	2.5	2.13	*	*	1.011-1.120	
Hexa	PCB-139/149	2.76e+04	1.49	n 41:28	0.84	4.33	*	2.5	*	*	1.121	1.115-1.127	
Hexa	PCB-140	*	*	n Not F ₇	0.79	*	480	2.5	2.25	*	*	1.120-1.132	
Hexa	PCB-134/143	*	*	n Not F ₇	0.93	*	947	2.5	2.16	*	*	0.970-0.980	

Analyst: 

Date: 12/30/14

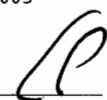
Client ID: Method Blank
Lab ID: B4L0127-BLK1

Filename: 141226E1
GC Column ID: ZB-1

S:4 Acq:26-DEC-14 14:35:58
ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n NotF η	0.95	*		947	2.5	2.12	*	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.91	*		947	2.5	2.19	*	0.981-0.991	
Hexa	PCB-146/165	*	*	n NotF η	1.16	*		947	2.5	1.73	*	0.986-0.996	
Hexa	PCB-132/161	*	*	n NotF η	1.11	*		947	2.5	1.80	*	0.992-1.002	
Hexa	PCB-153	1.48e+05	1.04	n 43:11	1.18	9.67		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF η	1.37	*		947	2.5	1.46	*	1.000-1.010	
Hexa	PCB-141	*	*	n NotF η	0.97	*		947	2.5	2.04	*	0.996-1.005	
Hexa	PCB-137	*	*	n NotF η	1.07	*		947	2.5	1.86	*	1.004-1.014	
Hexa	PCB-130	*	*	n NotF η	0.85	*		947	2.5	2.35	*	1.007-1.017	
Hexa	PCB-138/163/164	1.10e+05	0.80	n 44:47	1.23	6.99		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	*	*	n NotF η	1.29	*		947	2.5	1.57	*	1.001-1.011	
Hexa	PCB-129	*	*	n NotF η	0.92	*		947	2.5	2.19	*	1.007-1.017	
Hexa	PCB-166	*	*	n NotF η	1.12	*		947	2.5	1.65	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.16	*		947	2.5	1.58	*	0.995-1.005	
Hexa	PCB-128/162	*	*	n NotF η	1.02	*		947	2.5	1.81	*	1.002-1.012	
Hexa	PCB-167	*	*	n NotF η	1.06	*		947	2.5	1.46	*	0.995-1.005	
Hexa	PCB-156	*	*	n NotF η	1.18	*		947	2.5	1.42	*	0.995-1.005	
Hexa	PCB-157	*	*	n NotF η	1.08	*		947	2.5	1.54	*	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.11	*		947	2.5	1.49	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.40	*		822	2.5	1.15	*	0.995-1.005	
Hepta	PCB-184	*	*	n NotF η	1.24	*		822	2.5	1.30	*	1.006-1.016	
Hepta	PCB-179	*	*	n NotF η	1.30	*		822	2.5	1.23	*	1.024-1.034	
Hepta	PCB-176	*	*	n NotF η	1.36	*		822	2.5	1.18	*	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.28	*		822	2.5	1.26	*	1.049-1.059	
Hepta	PCB-178	*	*	n NotF η	0.94	*		822	2.5	1.72	*	1.061-1.071	
Hepta	PCB-175	*	*	n NotF η	0.97	*		822	2.5	1.66	*	1.069-1.079	
Hepta	PCB-182/187	4.13e+04	0.72	n 46:07	1.01	4.45		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	*	*	n NotF η	1.08	*		822	2.5	1.49	*	1.080-1.090	
Hepta	PCB-185	*	*	n NotF η	1.34	*		822	2.5	1.47	*	0.951-0.961	
Hepta	PCB-174	*	*	n NotF η	1.34	*		822	2.5	1.48	*	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.36	*		822	2.5	1.45	*	0.961-0.971	
Hepta	PCB-177	*	*	n NotF η	1.24	*		822	2.5	1.59	*	0.964-0.974	
Hepta	PCB-171	*	*	n NotF η	1.31	*		822	2.5	1.51	*	0.970-0.980	
Hepta	PCB-173	*	*	n NotF η	1.16	*		822	2.5	1.71	*	0.979-0.989	
Hepta	PCB-172	*	*	n NotF η	1.22	*		822	2.5	1.62	*	0.988-0.998	
Hepta	PCB-192	*	*	n NotF η	1.53	*		822	2.5	1.30	*	0.991-1.001	
Hepta	PCB-180	5.92e+04	1.22	n 49:20	1.43	5.50		*	2.5	*	1.001	0.995-1.005	

Analyst: 

Date: 12/30/14

Client ID: Method Blank
Lab ID: B4L0127-BLK1


Filename: 141226E1
GC Column ID: ZB-1

S:4 Acq:26-DEC-14 14:35:58
ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	* n	NotF η	1.65	*		822	2.5	1.20	*	0.999-1.009	
Hepta	PCB-191	*	* n	NotF η	1.67	*		822	2.5	1.18	*	1.004-1.014	
Hepta	PCB-170	*	* n	NotF η	1.50	*		822	2.5	1.54	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotF η	2.02	*		822	2.5	1.15	*	0.998-1.008	
Hepta	PCB-189	*	* n	NotF η	1.54	*		822	2.5	1.04	*	0.995-1.005	
Octa	PCB-202	*	* n	NotF η	1.04	*		540	2.5	1.55	*	0.995-1.005	
Octa	PCB-201	*	* n	NotF η	1.10	*		540	2.5	1.46	*	1.006-1.016	
Octa	PCB-204	*	* n	NotF η	0.99	*		540	2.5	1.62	*	1.009-1.019	
Octa	PCB-197	*	* n	NotF η	1.07	*		540	2.5	1.50	*	1.015-1.025	
Octa	PCB-200	*	* n	NotF η	1.02	*		540	2.5	1.58	*	1.032-1.044	
Octa	PCB-198	*	* n	NotF η	0.74	*		540	2.5	2.17	*	1.058-1.068	
Octa	PCB-199	*	* n	NotF η	0.73	*		540	2.5	2.21	*	1.060-1.070	
Octa	PCB-196/203	*	* n	NotF η	0.77	*		540	2.5	2.09	*	1.066-1.076	
Octa	PCB-195	*	* n	NotF η	1.20	*		585	2.5	0.662	*	0.979-0.989	
Octa	PCB-194	*	* n	NotF η	1.25	*		585	2.5	0.637	*	0.995-1.005	
Octa	PCB-205	*	* n	NotF η	1.41	*		585	2.5	0.562	*	1.001-1.011	
Nona	PCB-208	*	* n	NotF η	0.96	*		422	2.5	0.454	*	0.995-1.005	
Nona	PCB-207	*	* n	NotF η	0.92	*		422	2.5	0.477	*	1.001-1.011	
Nona	PCB-206	*	* n	NotF η	1.03	*		422	2.5	0.806	*	0.995-1.005	
Deca	PCB-209	*	* n	NotF η	1.18	*		815	2.5	1.80	*	0.995-1.005	

Analyst:


12/30/14

Date:

Client ID: Method Blank
Lab ID: B4L0127-BLK1

Filename: 141226E1 S:4 Acq:26-DEC-14 14:35:58
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST141226E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.22	*	
Total Di-PCB	*	* n	NotFnd	1.21	*	
Total Tri-PCB	*	* n	NotFnd	1.16	*	
Total Tri-PCB	9.37e+04	1.09 y	29:03	1.35	3.17546	Sum:3.17546
Total Tetra-PCB	*	* n	NotFnd	1.17	*	
Total Penta-PCB	*	* n	NotFnd	1.21	*	
Total Penta-PCB	*	* n	NotFnd	1.26	*	Sum:0.00000
Total Hexa-PCB	*	* n	NotFnd	0.92	*	
Total Hexa-PCB	*	* n	NotFnd	1.08	*	Sum:0.00000
Total Hepta-PCB	*	* n	NotFnd	1.27	*	
Total Octa-PCB	*	* n	NotFnd	0.92	*	
Total Octa-PCB	*	* n	NotFnd	1.29	*	Sum:0.00000
Total Nona-PCB	*	* n	NotFnd	0.96	*	
Total Deca-PCB	*	* n	NotFnd	1.18	*	

Total PCB Conc: ~~57.736~~ 4980000

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Integrations

by
Analyst: 

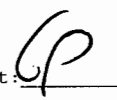
Date: 12/30/14

Client ID: Method Blank
Lab ID: B4L0127-BLK1

Filename: 141226E1 S:4 Acq:26-DEC-14 14:35:58
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

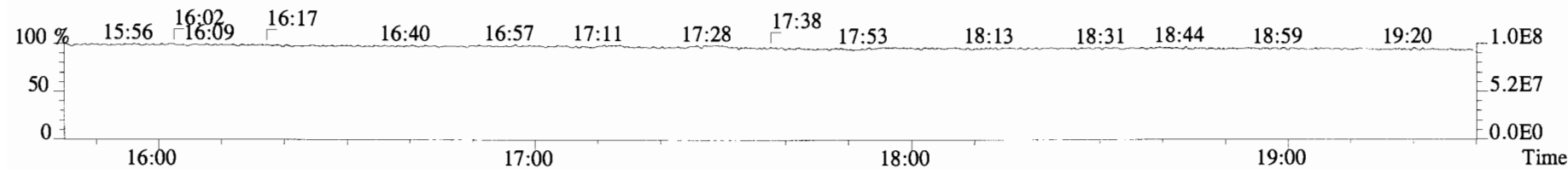
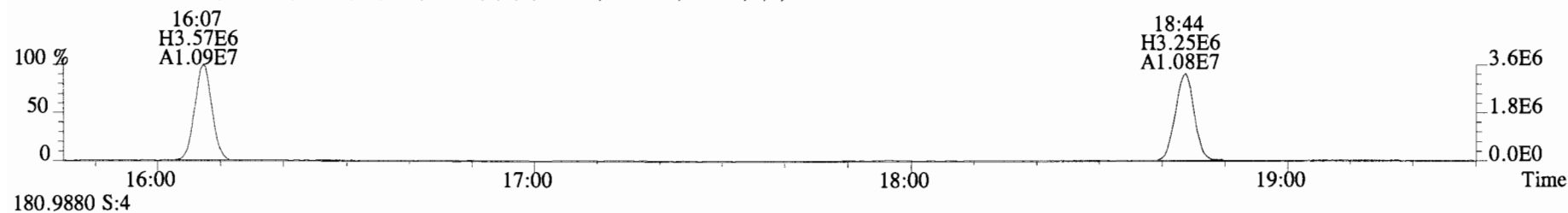
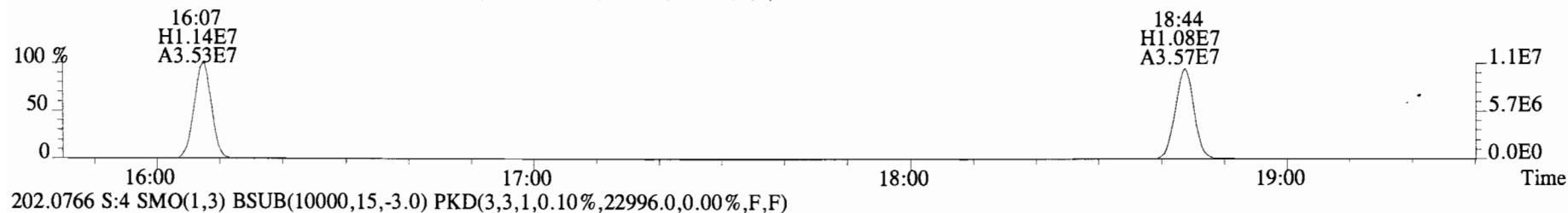
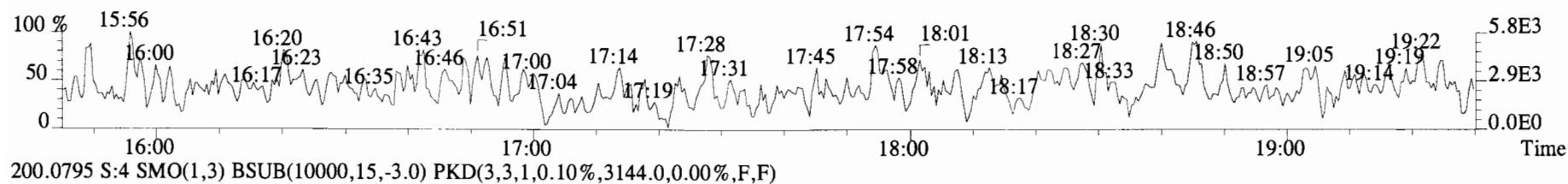
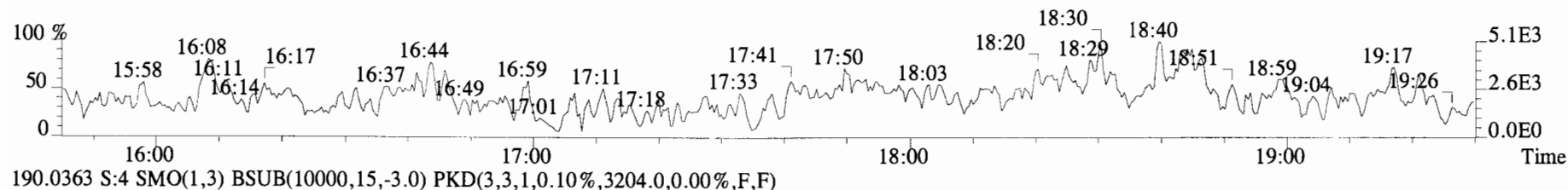
ConCal: ST141226E1-1
EndCAL: NA

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	4.62e+07	3.24	y	0.89	16:07	0.622	0.622-0.628	1760	87.9											
13C-PCB-3	4.65e+07	3.31	y	0.93	18:44	0.723	0.721-0.729	1700	84.9		13C-PCB-79	4.40e+07	0.80	y	1.01	37:46	1.029	1.023-1.033	2040	102
13C-PCB-4	2.57e+07	1.60	y	0.55	20:03	0.774	0.772-0.780	1590	79.6		13C-PCB-178	1.48e+07	0.47	y	0.63	45:35	0.985	0.979-0.989	1820	91.2
13C-PCB-9	3.92e+07	1.59	y	0.83	21:50	0.842	0.840-0.848	1610	80.5											
13C-PCB-11	4.63e+07	1.58	y	0.94	25:13	0.973	0.968-0.978	1670	83.6											
13C-PCB-19	2.38e+07	1.09	y	0.53	24:12	0.934	0.929-0.939	1510	75.6											
13C-PCB-28	4.28e+07	1.11	y	0.89	29:04	1.004	0.999-1.009	1880	93.8		13C-PCB-79	4.40e+07	0.80	y	1.20	37:46	0.968	0.963-0.973	2090	104
13C-PCB-32	3.66e+07	1.09	y	0.81	27:06	1.046	1.041-1.051	1520	76.1		13C-PCB-178	1.48e+07	0.47	y	0.94	45:35	0.925	0.920-0.930	2100	105
13C-PCB-37	4.04e+07	1.13	y	0.83	32:55	1.137	1.131-1.143	1890	94.3											
13C-PCB-47	2.60e+07	0.80	y	0.74	31:58	0.871	0.867-0.875	1620	81.2											
13C-PCB-52	2.52e+07	0.81	y	0.71	31:28	0.857	0.853-0.861	1660	82.9											
13C-PCB-54	2.99e+07	0.80	y	0.85	27:56	0.761	0.758-0.766	1640	81.8											
13C-PCB-70	3.55e+07	0.81	y	0.94	35:29	0.966	0.961-0.971	1750	87.4											
13C-PCB-77	3.93e+07	0.80	y	0.89	39:35	1.078	1.073-1.083	2050	102											
13C-PCB-80	3.72e+07	0.82	y	0.96	35:54	0.978	0.972-0.982	1800	89.9											
13C-PCB-81	3.52e+07	0.82	y	0.84	39:00	1.062	1.057-1.067	1950	97.6											
13C-PCB-95	1.54e+07	1.60	y	0.74	35:47	0.913	0.908-0.918	1700	84.9											
13C-PCB-97	1.58e+07	1.65	y	0.69	38:45	0.989	0.984-0.994	1880	94.1											
13C-PCB-101	1.72e+07	1.66	y	0.79	37:28	0.956	0.951-0.961	1800	89.8											
13C-PCB-104	1.97e+07	1.61	y	1.00	32:37	0.832	0.829-0.837	1620	80.9											
13C-PCB-105	3.48e+07	1.71	y	1.24	43:01	0.929	0.924-0.934	2180	109											
13C-PCB-114	3.22e+07	1.66	y	1.21	42:09	0.910	0.905-0.915	2070	103											
13C-PCB-118	2.29e+07	1.59	y	0.98	41:30	1.059	1.054-1.064	1900	95.1											
13C-PCB-123	2.21e+07	1.68	y	0.95	41:19	1.054	1.049-1.059	1910	95.3											
13C-PCB-126	3.50e+07	1.63	y	1.16	45:15	0.977	0.972-0.982	2340	117											
13C-PCB-127	3.82e+07	1.61	y	1.34	43:21	0.936	0.931-0.941	2210	110											
13C-PCB-138	2.58e+07	1.27	y	1.04	44:45	0.967	0.961-0.971	1920	95.9											
13C-PCB-141	2.66e+07	1.29	y	1.07	43:54	0.948	0.943-0.953	1930	96.4											
13C-PCB-153	2.59e+07	1.30	y	1.11	43:10	0.932	0.927-0.937	1800	90.2											
13C-PCB-155	1.51e+07	1.28	y	0.83	37:00	0.944	0.939-0.949	1490	74.4											
13C-PCB-156	3.24e+07	1.29	y	1.24	48:00	1.037	1.032-1.042	2020	101											
13C-PCB-157	3.38e+07	1.32	y	1.31	48:17	1.043	1.037-1.047	2000	99.9											
13C-PCB-159	2.99e+07	1.29	y	1.20	46:02	0.994	0.989-0.999	1940	96.8											
13C-PCB-167	3.46e+07	1.28	y	1.32	46:43	1.009	1.004-1.014	2030	101											
13C-PCB-169	3.40e+07	1.31	y	1.22	50:26	1.089	1.082-1.092	2170	109											
13C-PCB-170	1.23e+07	0.48	y	0.54	50:49	1.098	1.089-1.101	1780	89.1											
13C-PCB-180	1.51e+07	0.46	y	0.67	49:18	1.065	1.059-1.069	1730	86.7											
13C-PCB-188	1.83e+07	0.46	y	0.94	42:48	0.924	0.919-0.929	1520	75.9											
13C-PCB-189	1.70e+07	0.49	y	0.72	52:19	1.130	1.120-1.132	1850	92.4											
13C-PCB-194	2.75e+07	0.91	y	0.81	53:51	0.995	0.990-1.000	1950	97.4											
13C-PCB-202	1.57e+07	0.92	y	0.83	48:13	1.041	1.036-1.046	1460	73.1											
13C-PCB-206	2.04e+07	0.80	y	0.66	55:28	1.025	1.021-1.031	1770	88.7											
13C-PCB-208	3.09e+07	0.76	y	1.12	53:07	0.981	0.976-0.986	1580	78.8											
13C-PCB-209	1.96e+07	1.19	y	0.61	56:50	1.050	1.044-1.054	1830	91.7											

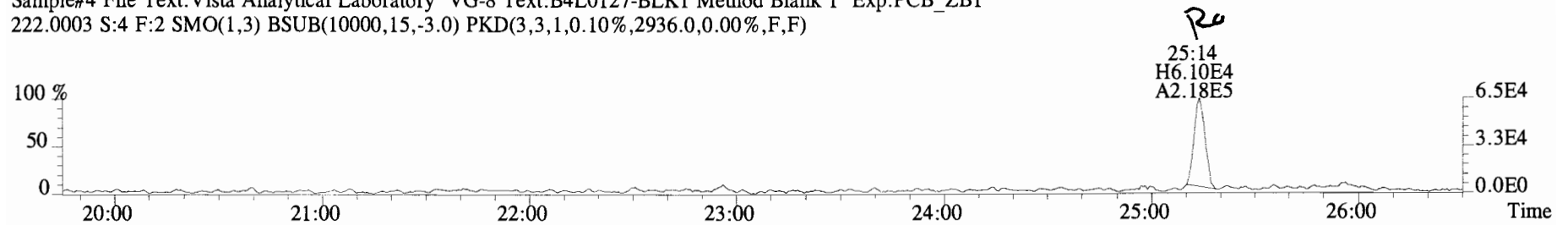
Analyst: 

Date: 12/30/14

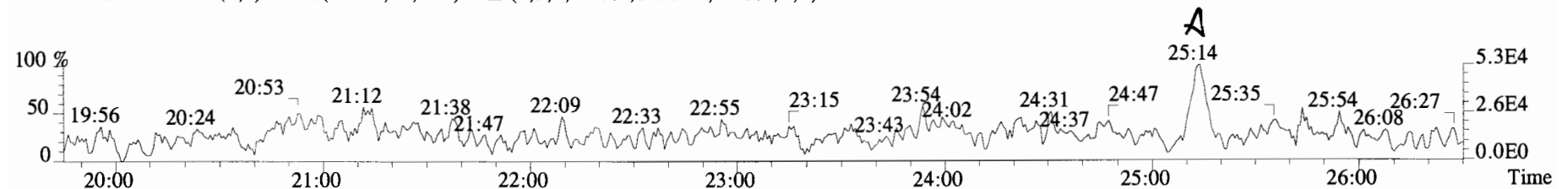
File:141226E1 #1-728 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2792.0,0.00%,F,F)



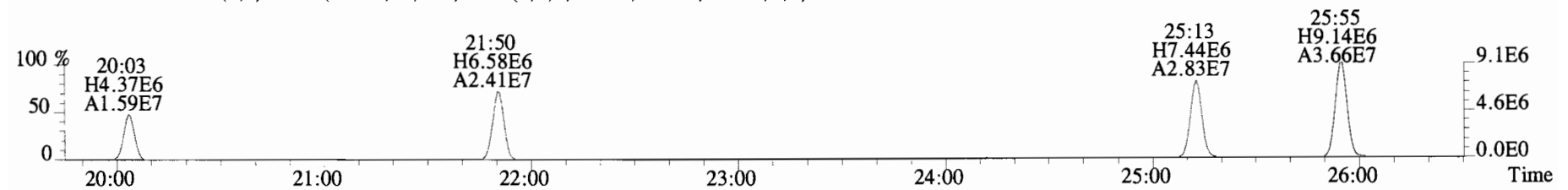
File:141226E1 #1-758 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



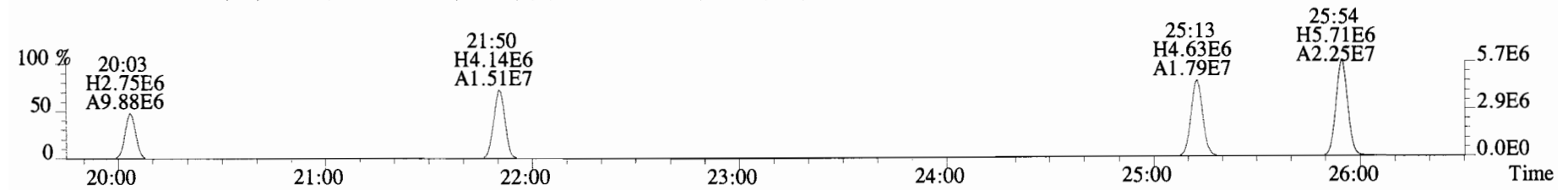
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17516.0,0.00%,F,F)



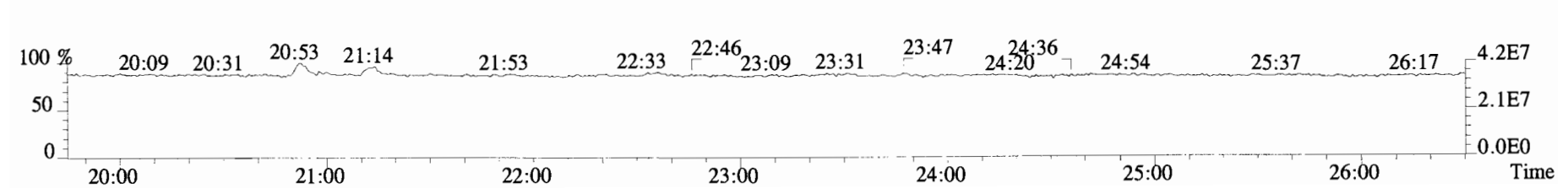
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3616.0,0.00%,F,F)



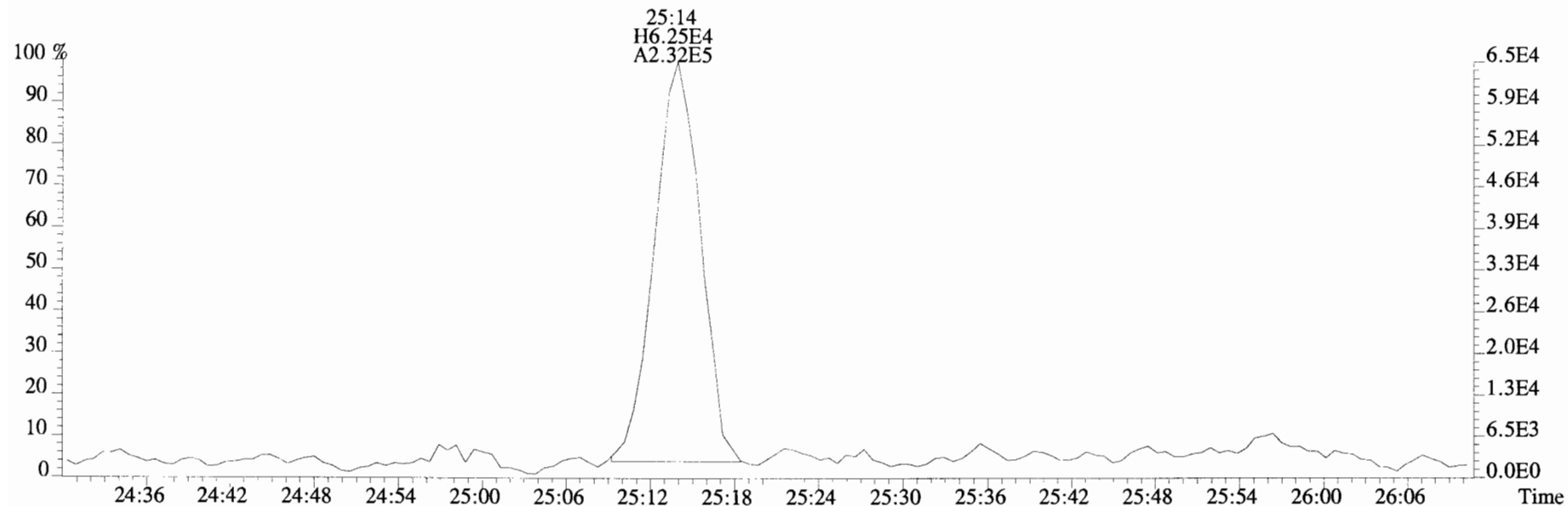
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3944.0,0.00%,F,F)



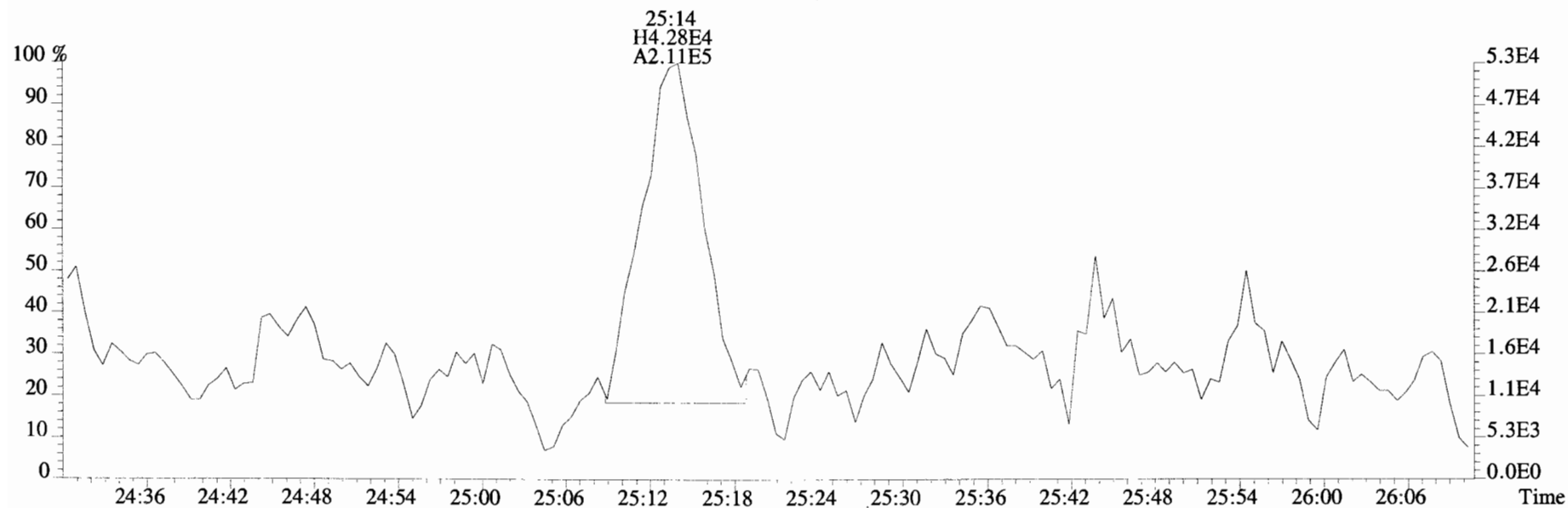
230.9856 S:4 F:2



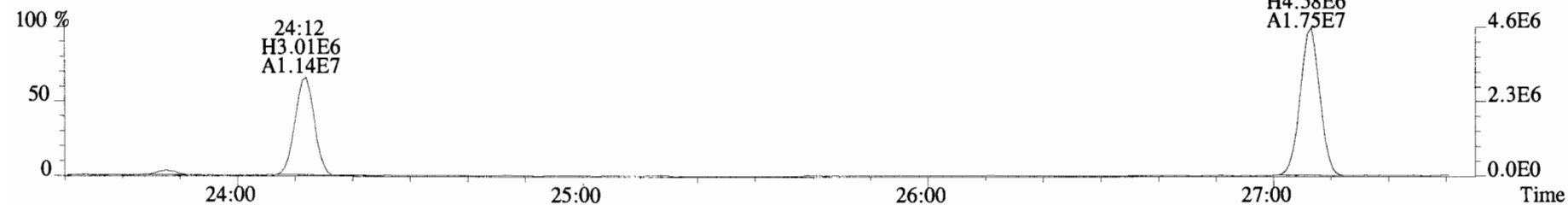
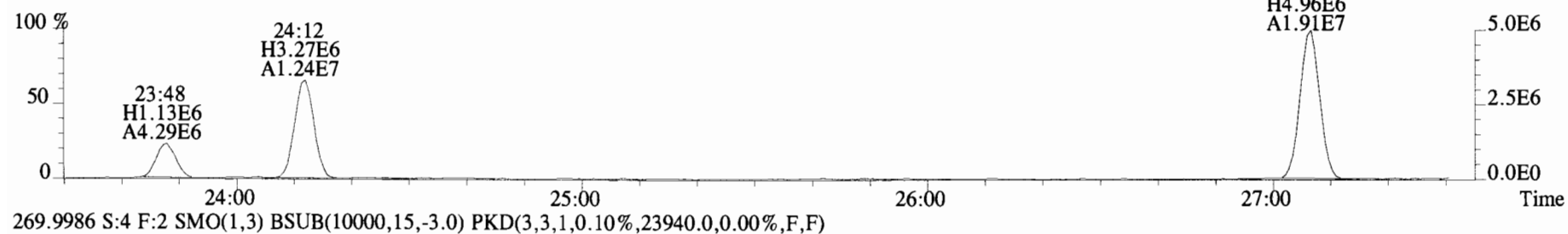
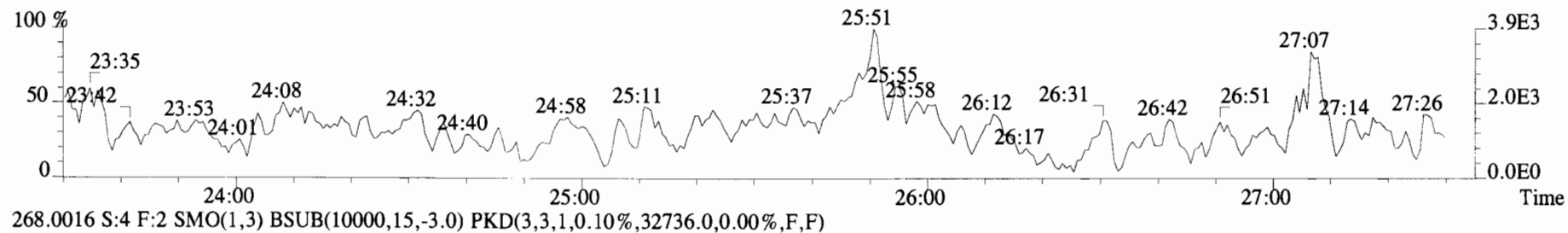
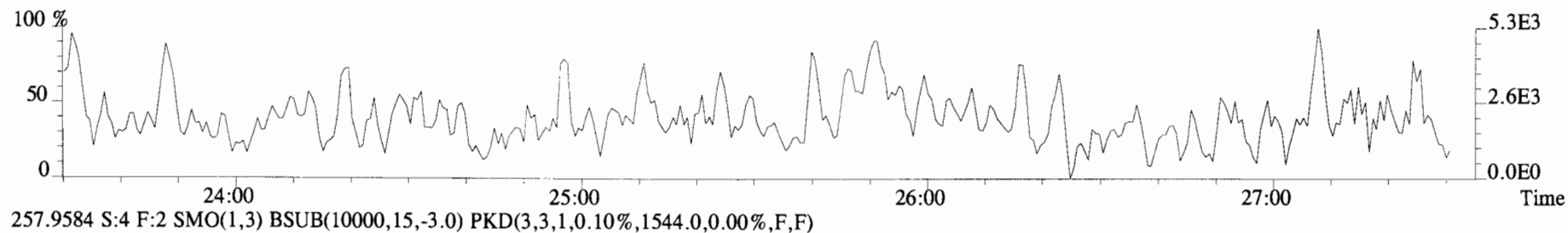
File:141226E1 #1-758 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



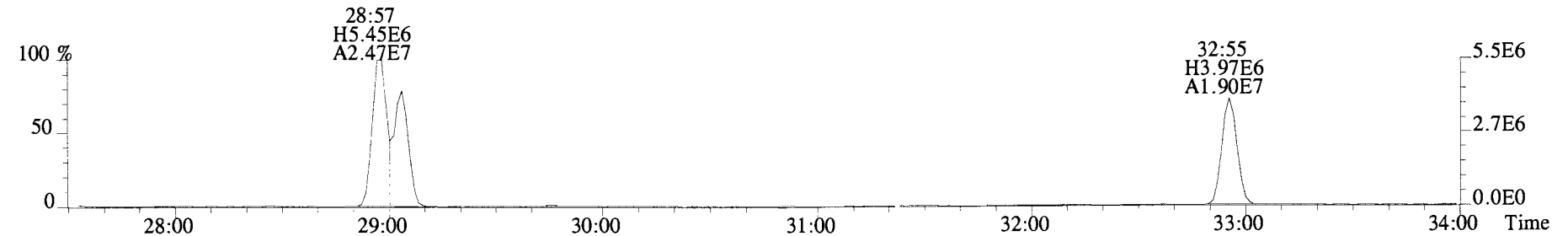
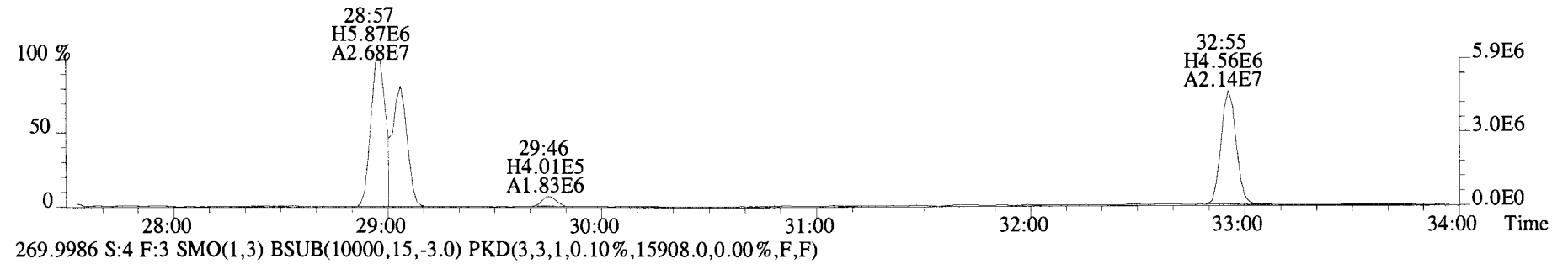
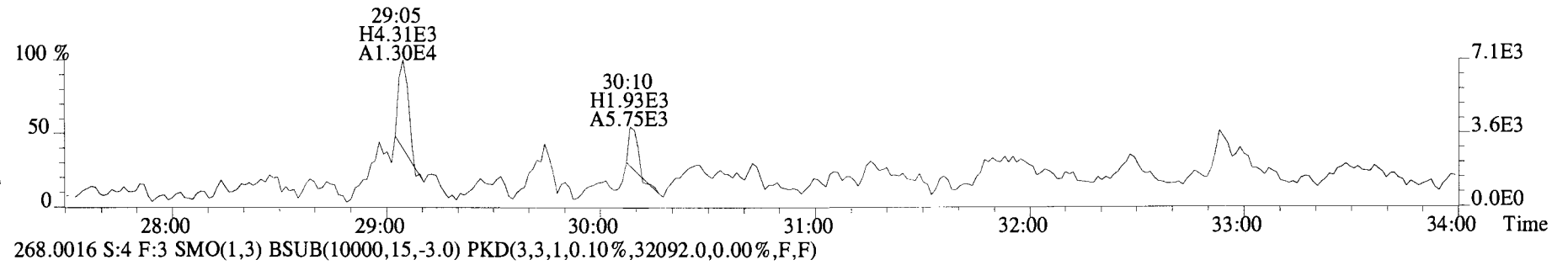
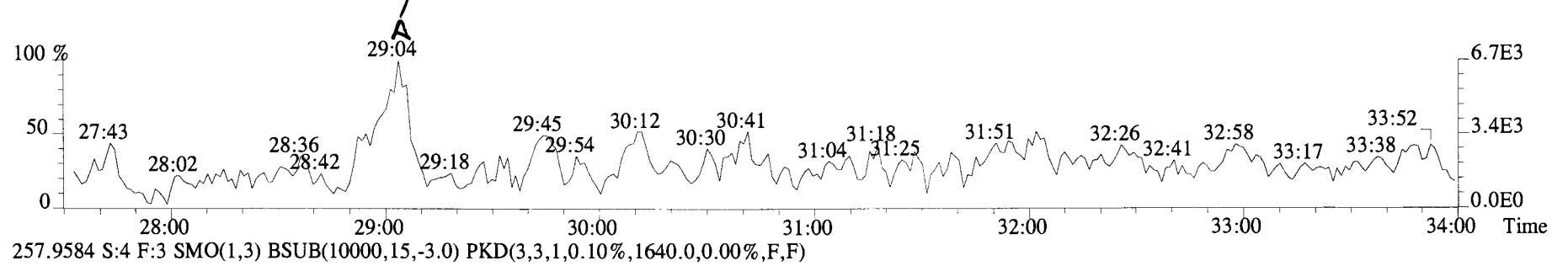
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,17516.0,0.00%,F,F)



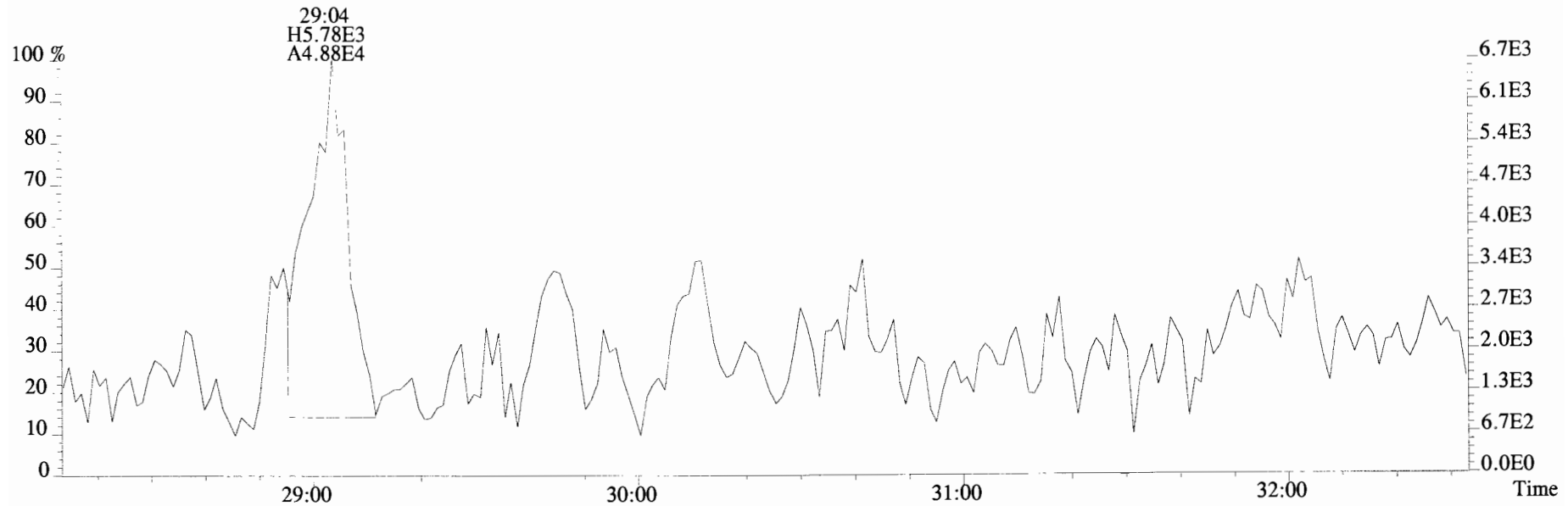
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2512.0,0.00%,F,F)



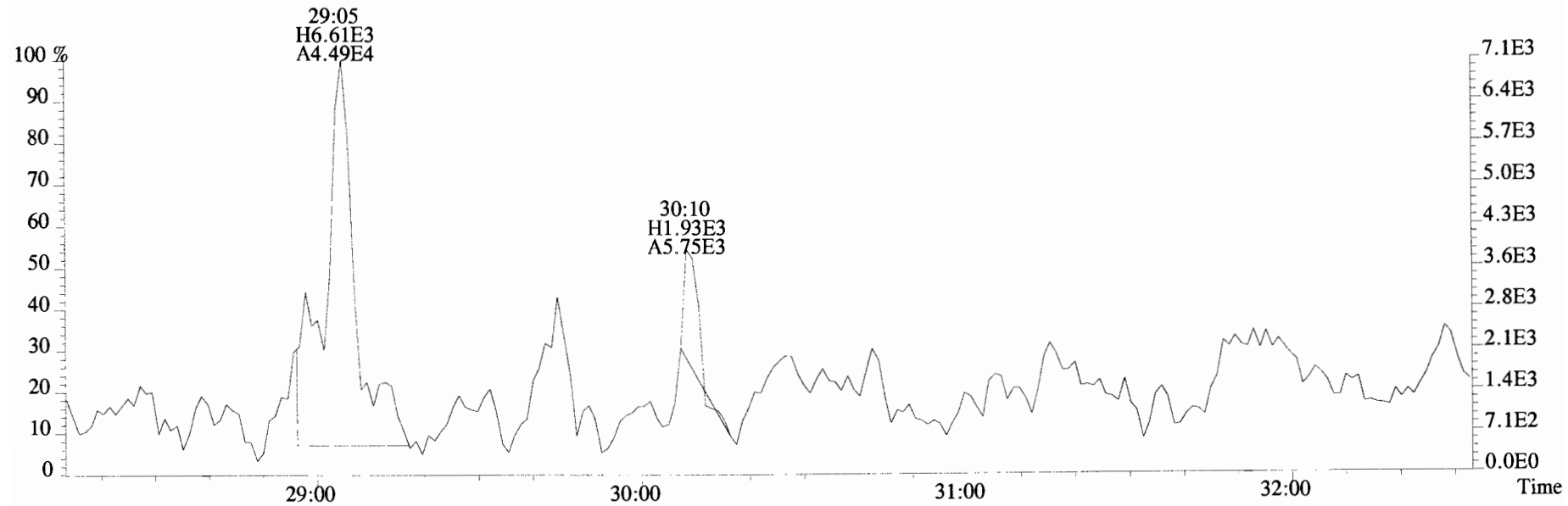
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2392.0,0.00%,F,F)



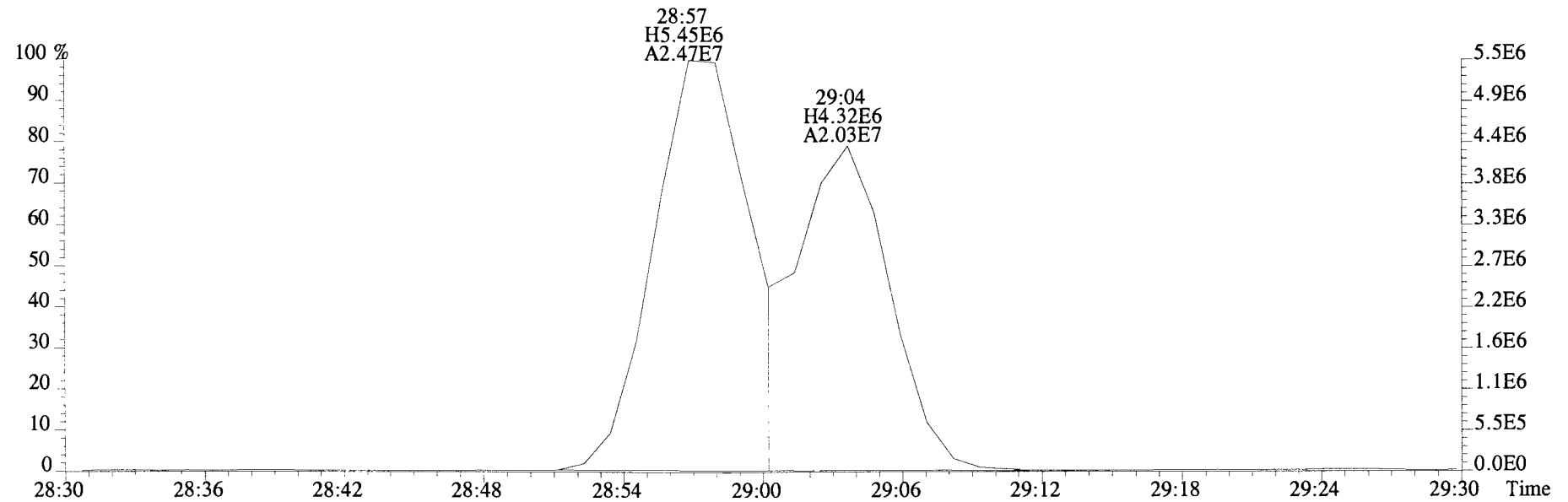
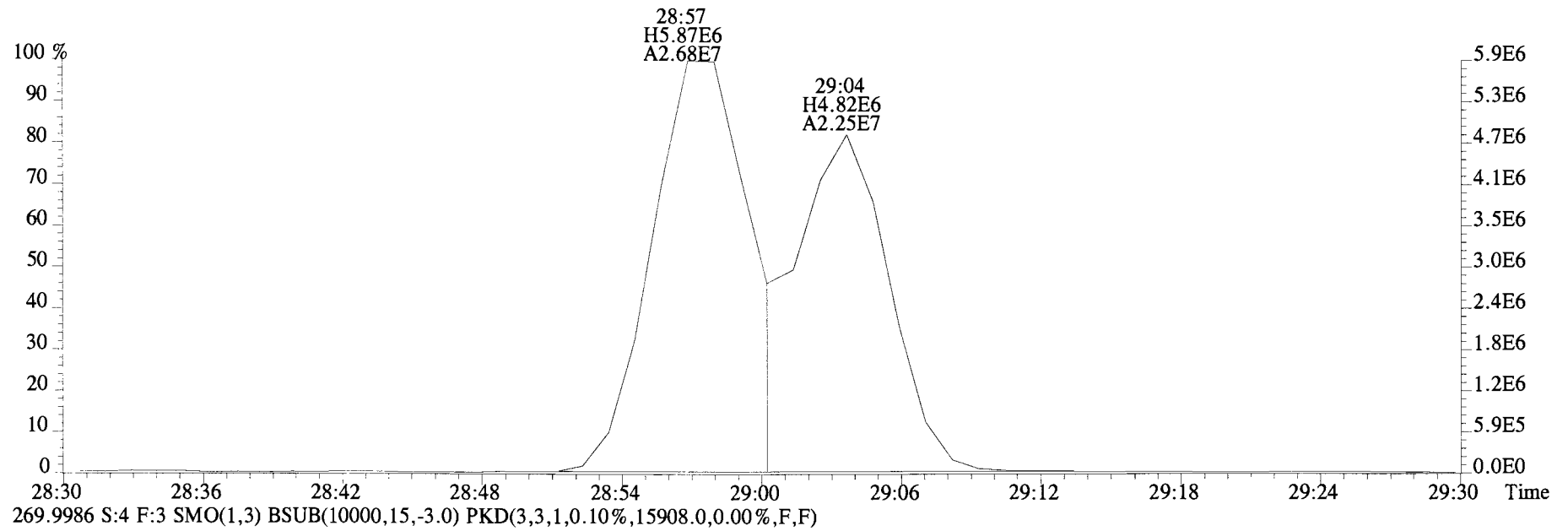
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2392.0,0.00%,F,F)



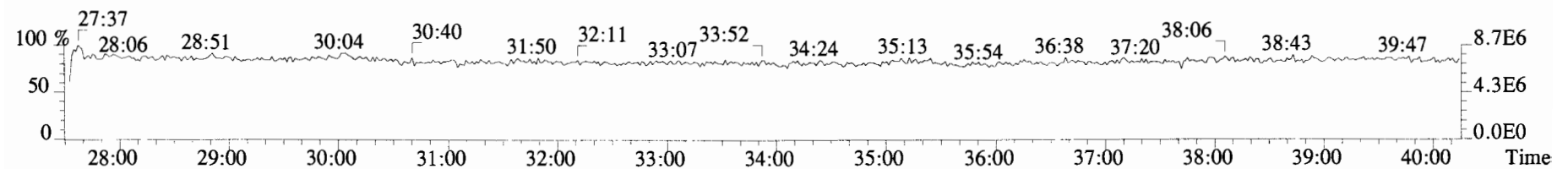
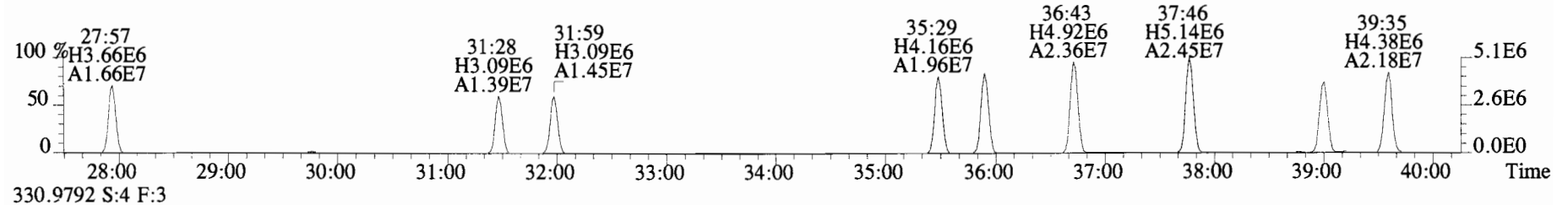
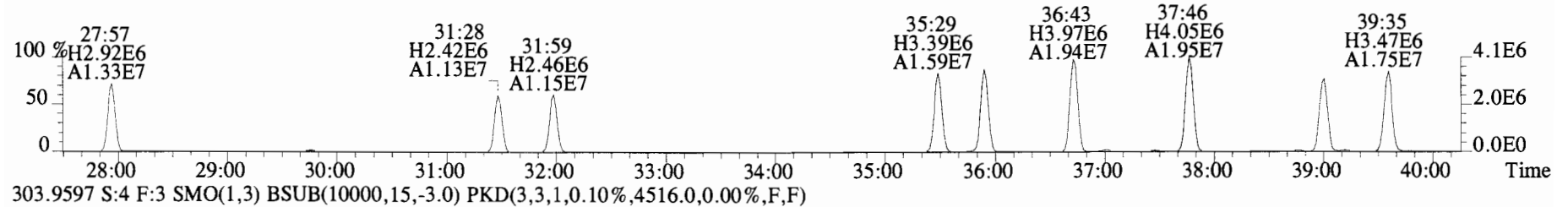
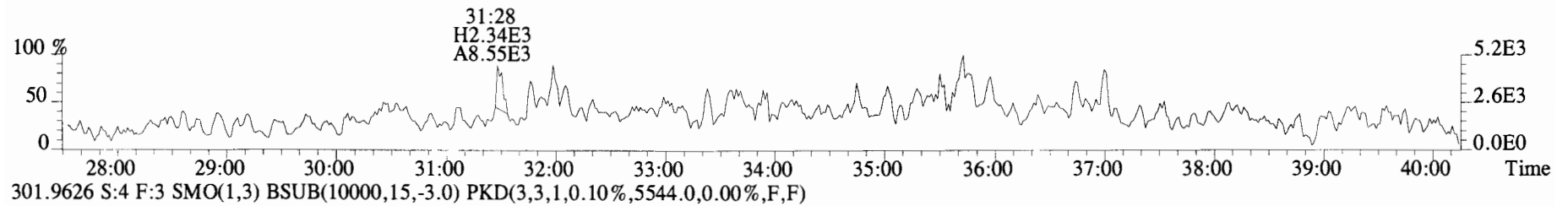
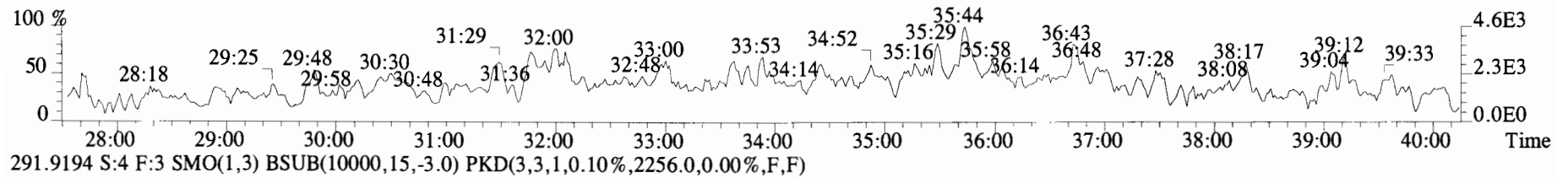
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



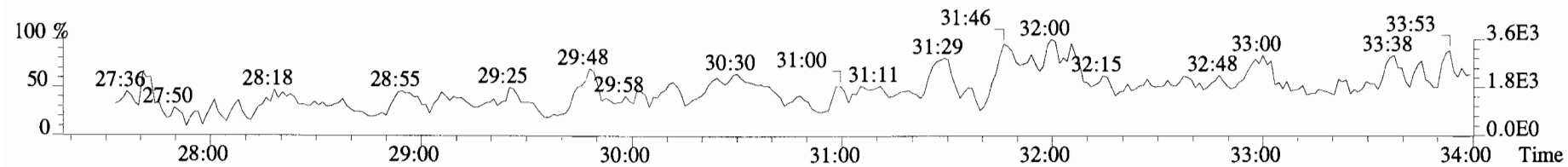
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32092.0,0.00%,F,F)



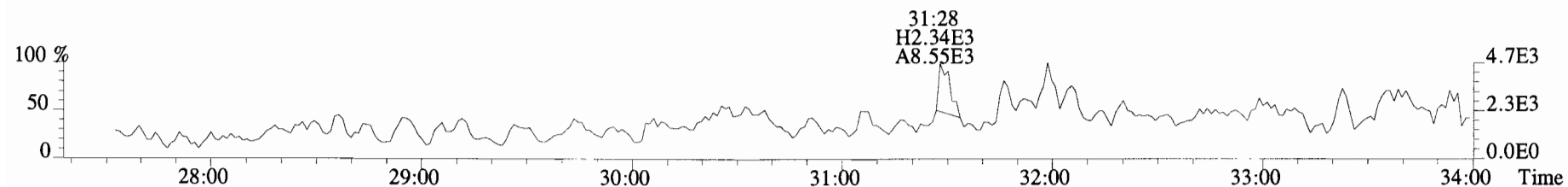
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



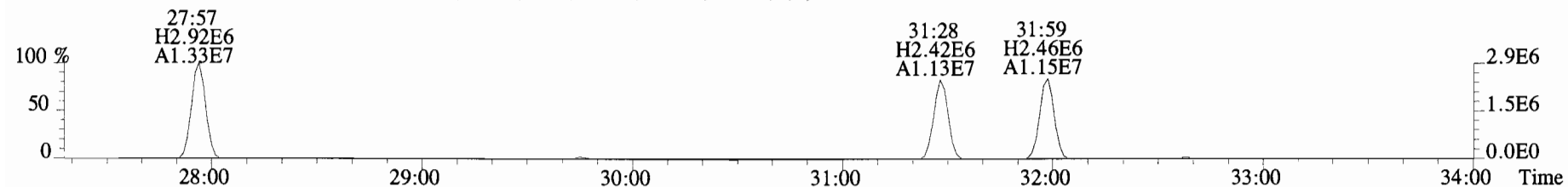
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



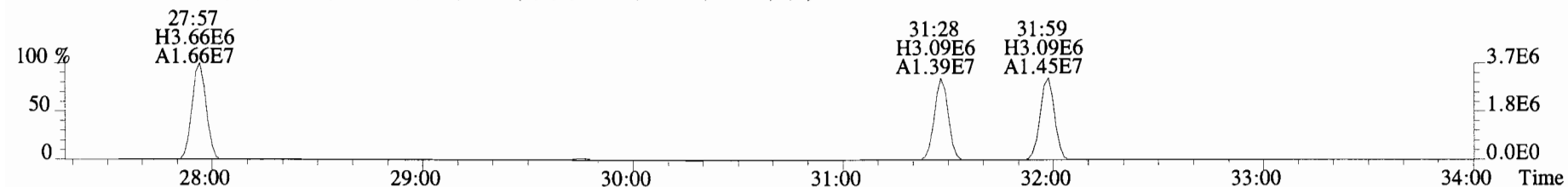
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



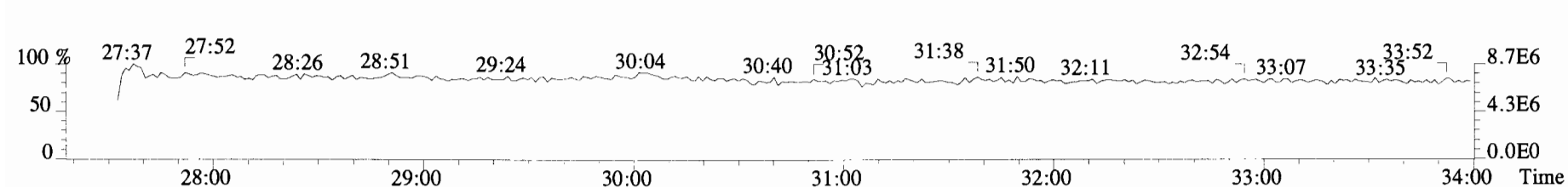
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



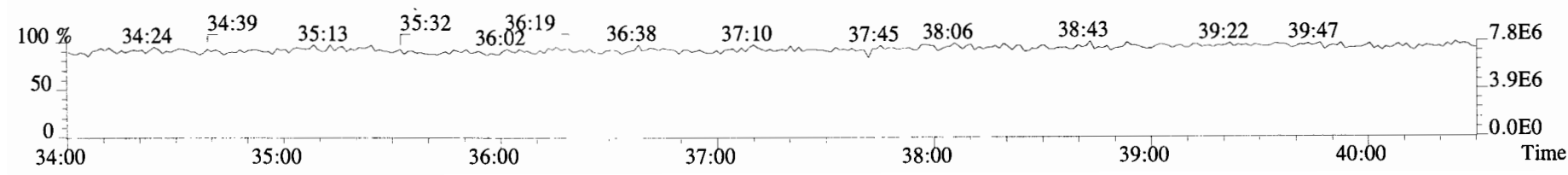
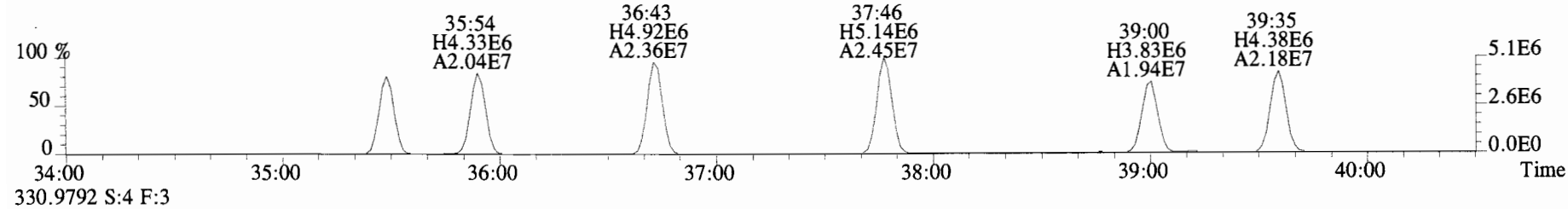
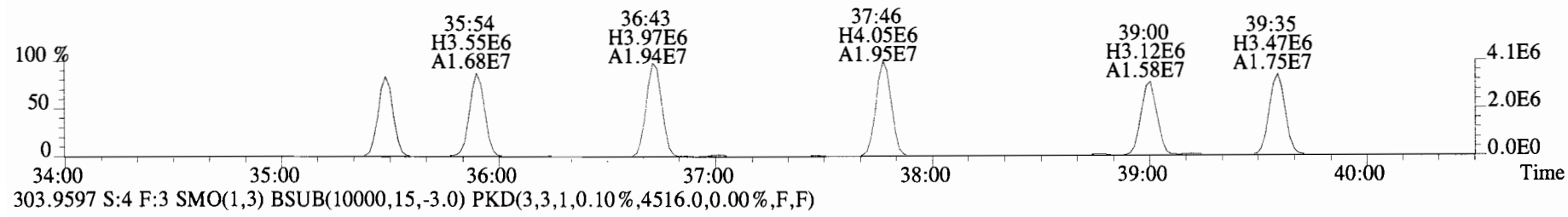
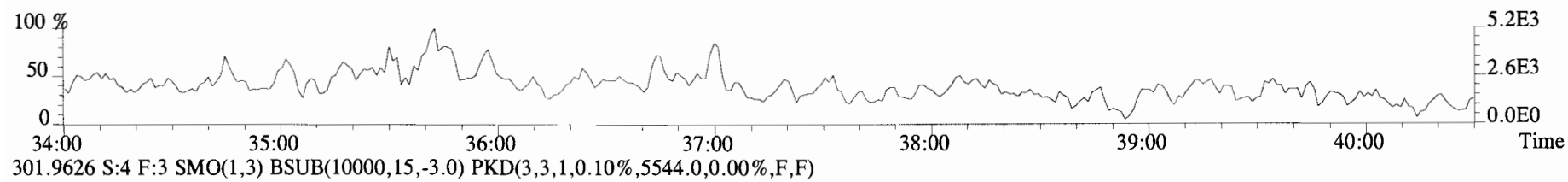
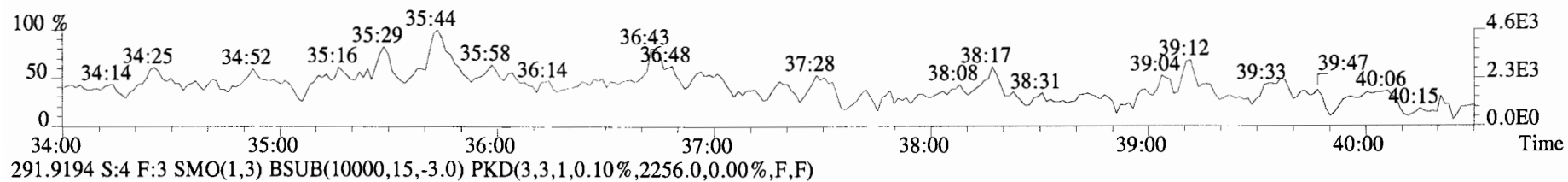
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4516.0,0.00%,F,F)



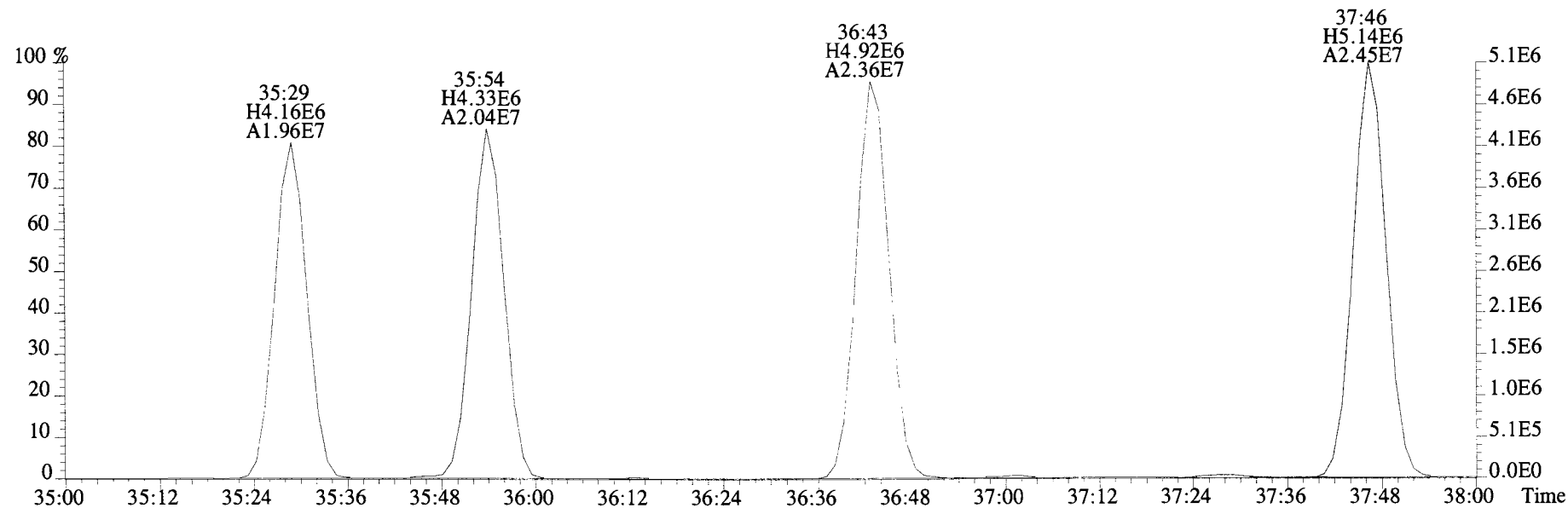
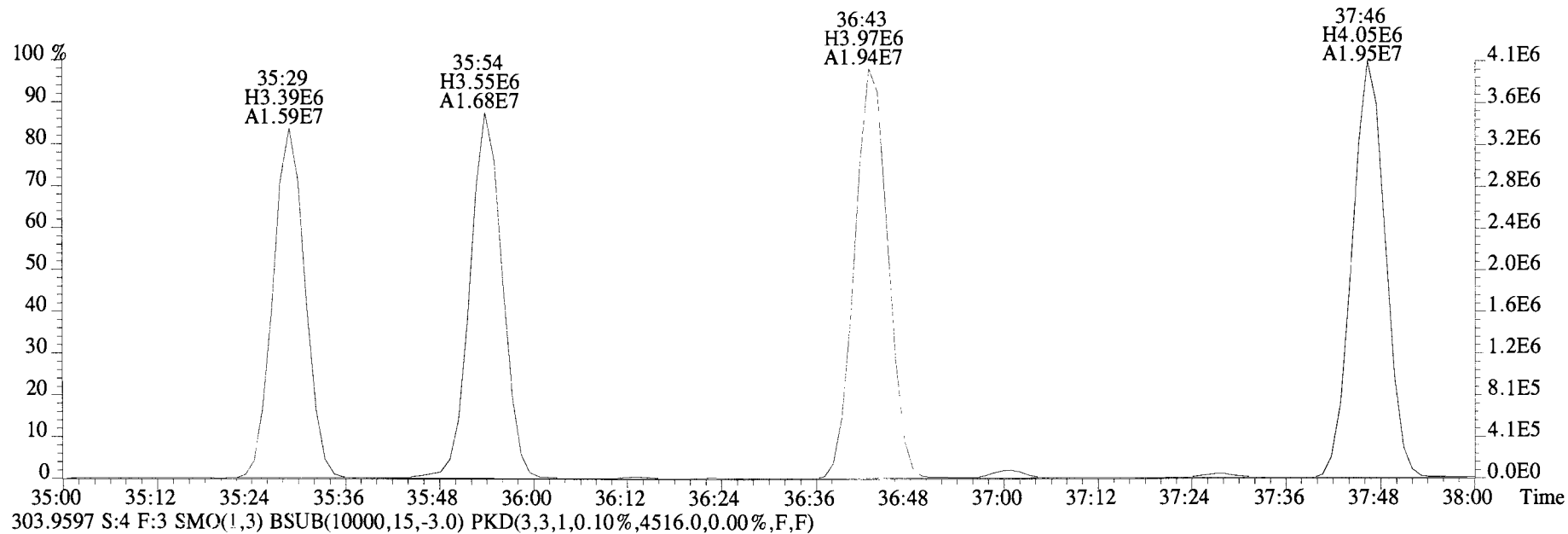
330.9792 S:4 F:3



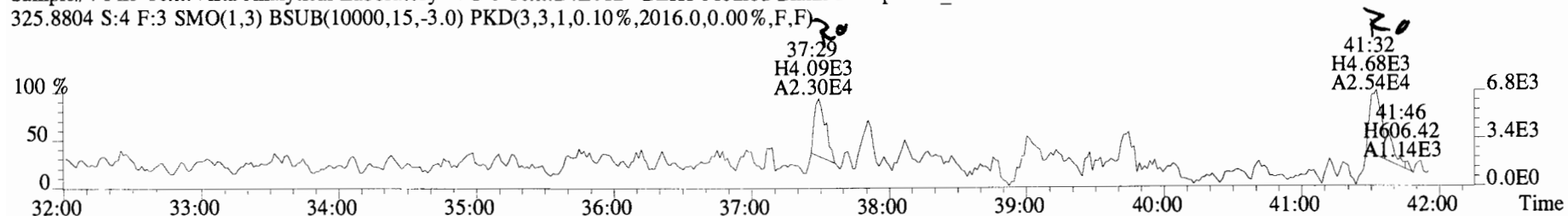
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2140.0,0.00%,F,F)



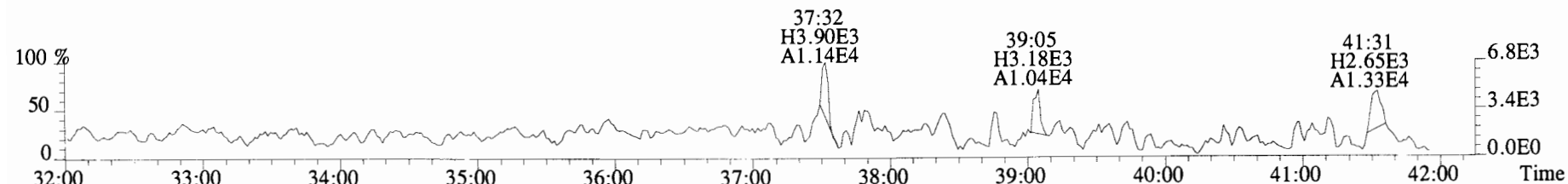
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



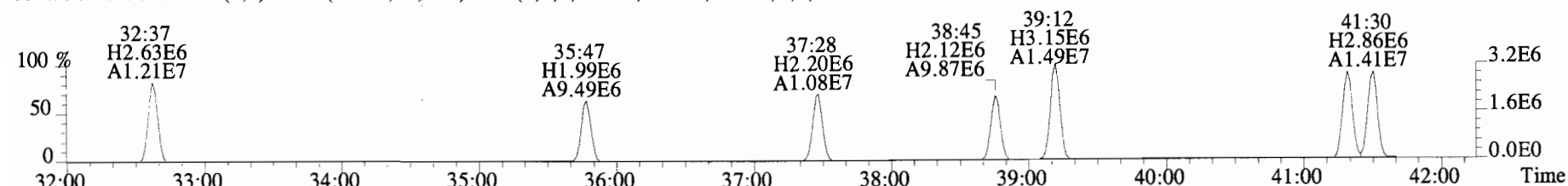
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



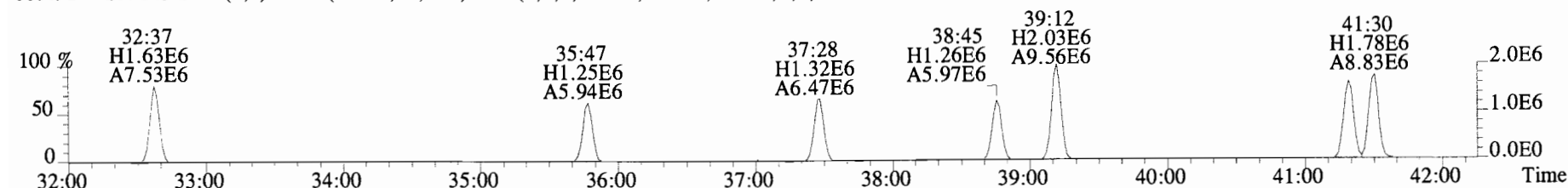
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



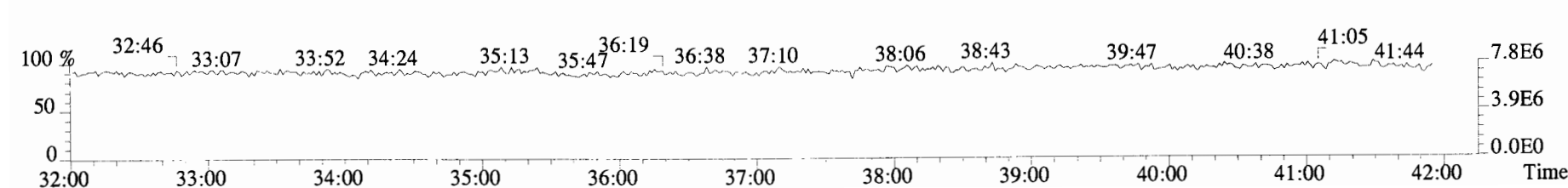
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2492.0,0.00%,F,F)



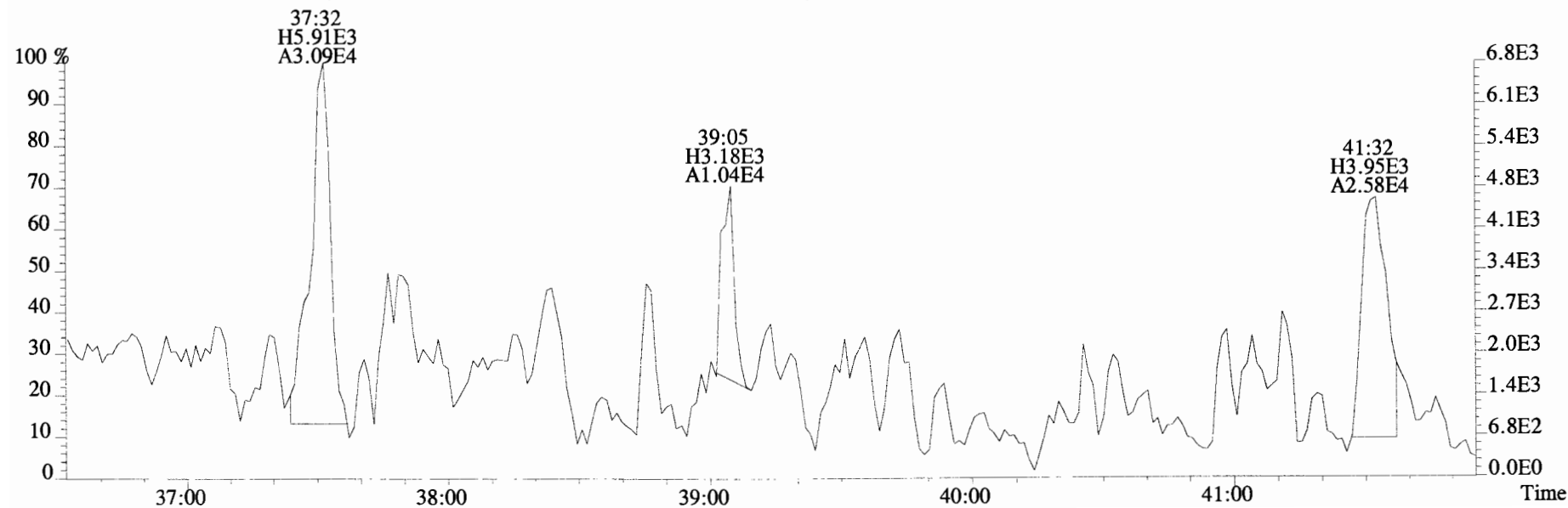
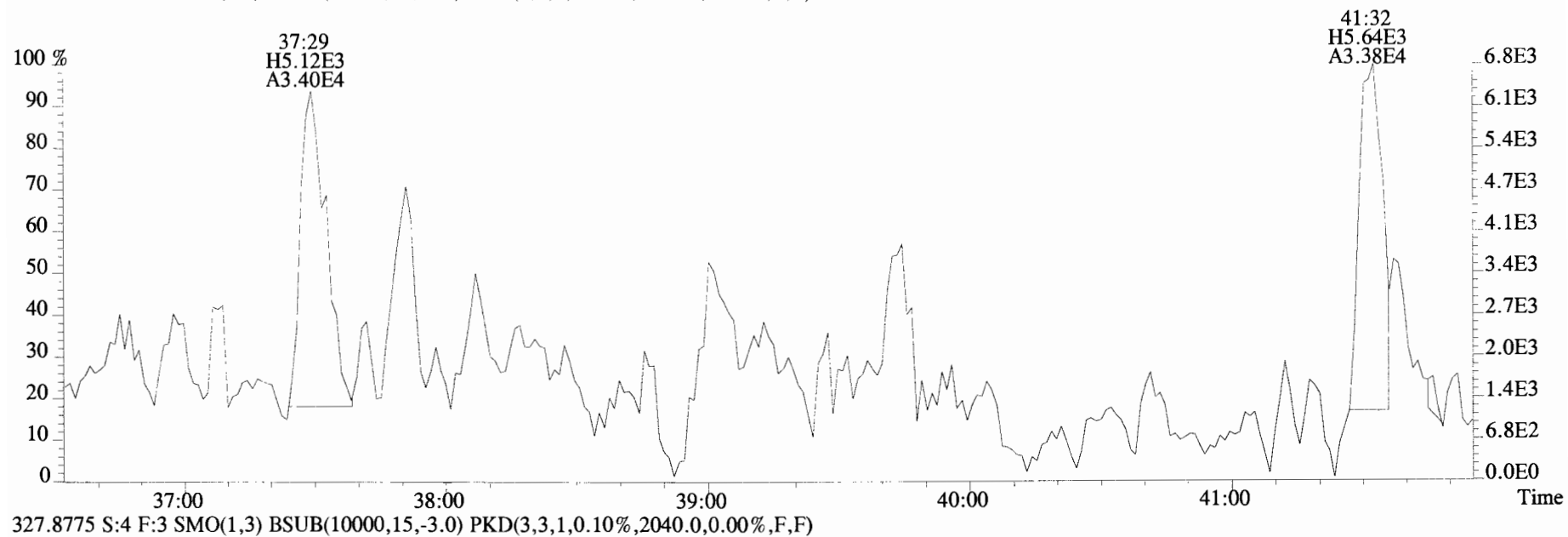
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2020.0,0.00%,F,F)



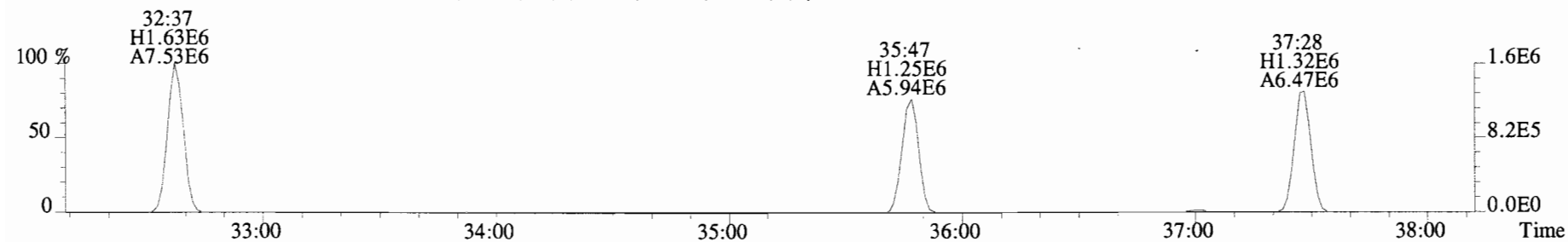
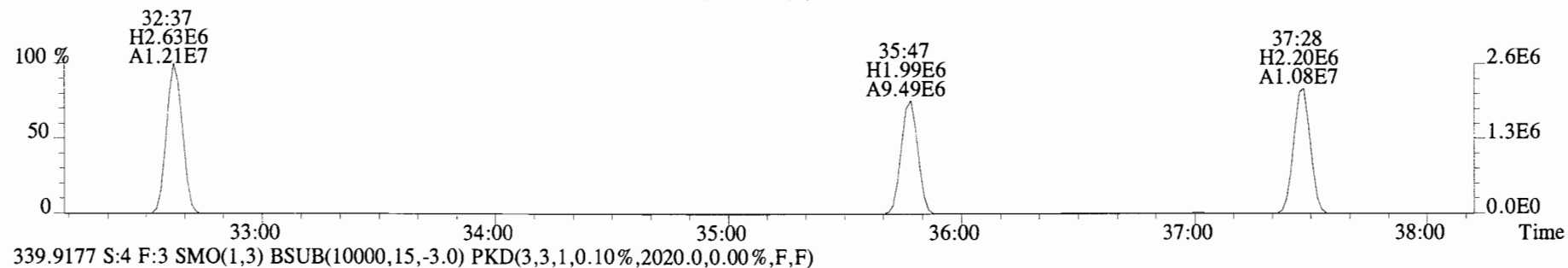
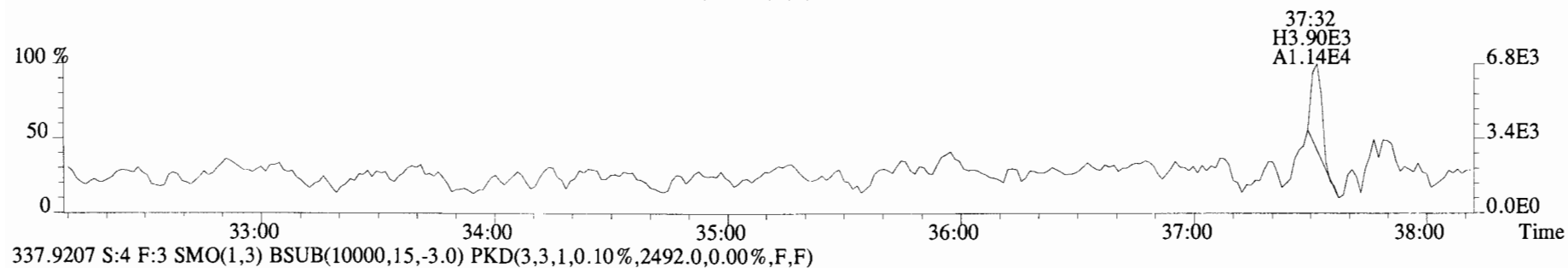
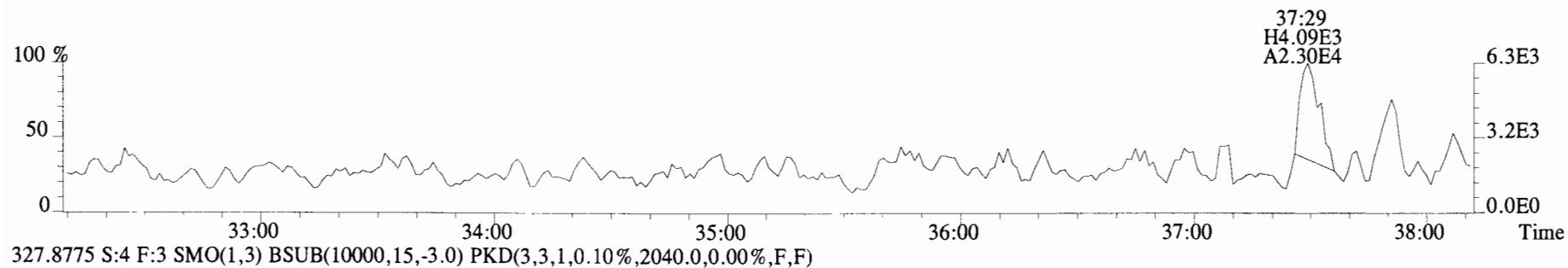
330.9792 S:4 F:3



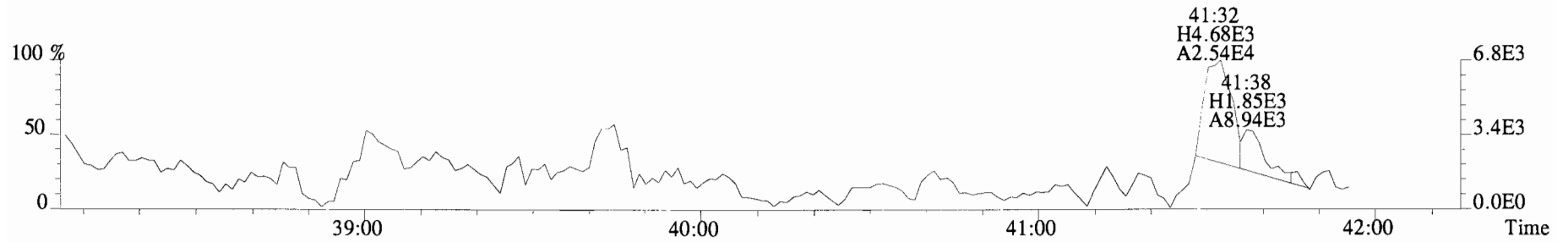
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



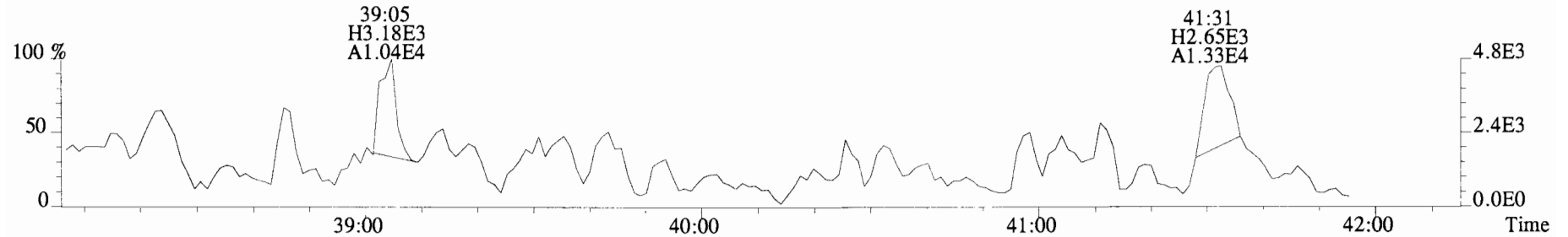
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



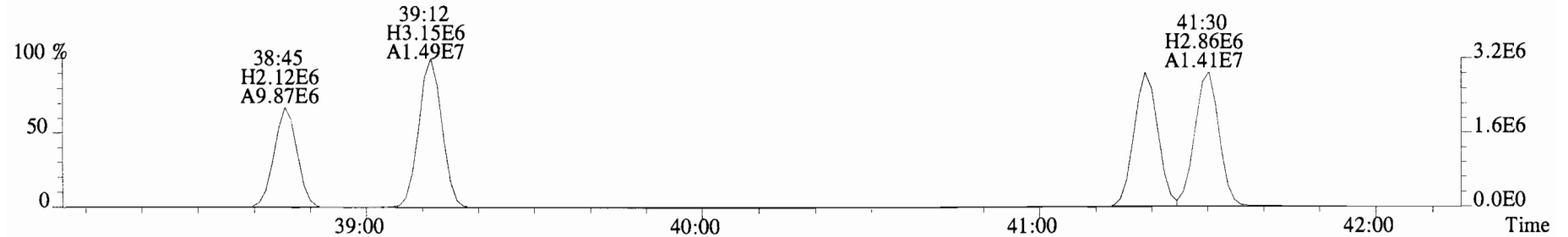
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S.4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



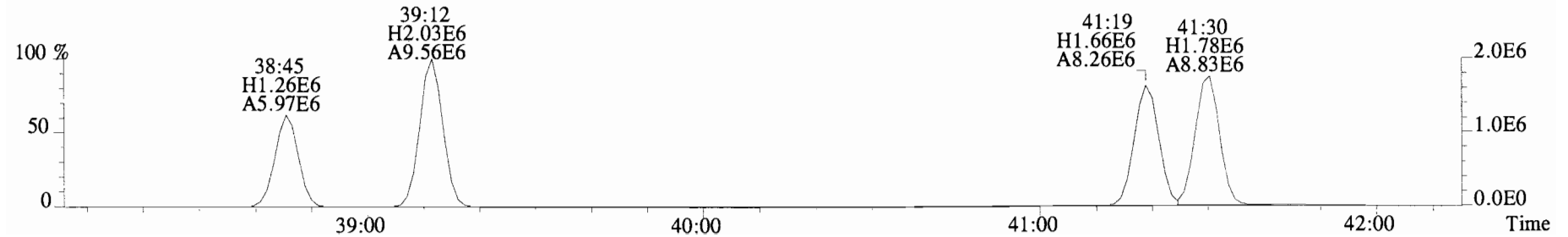
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



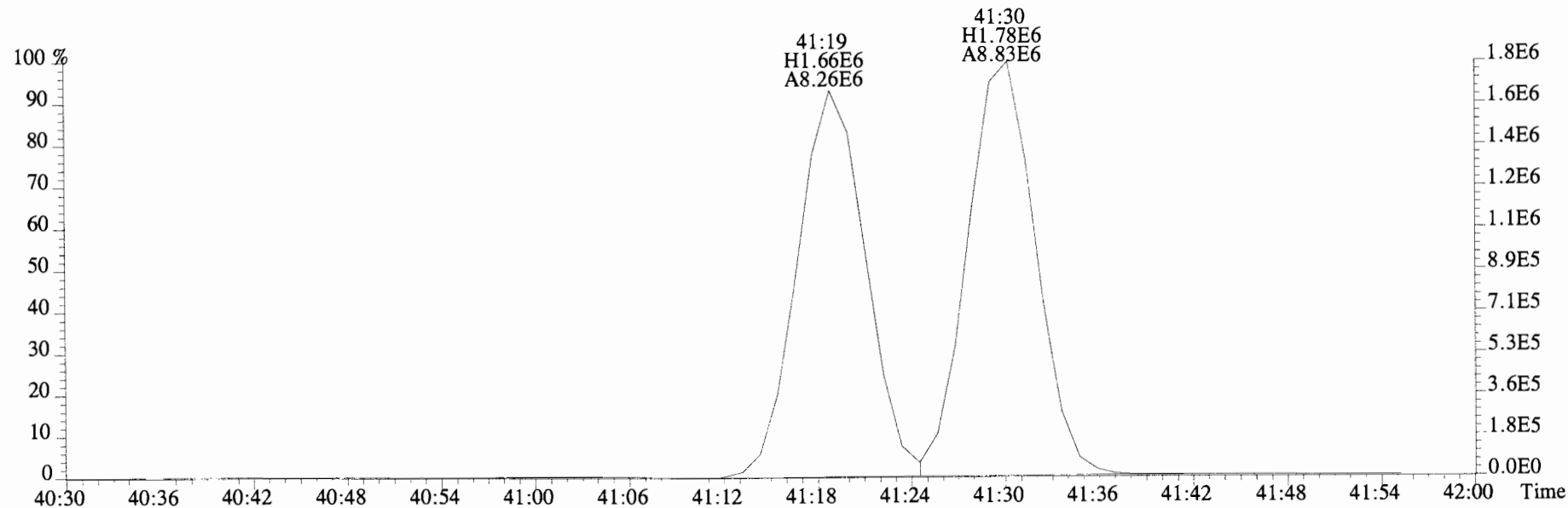
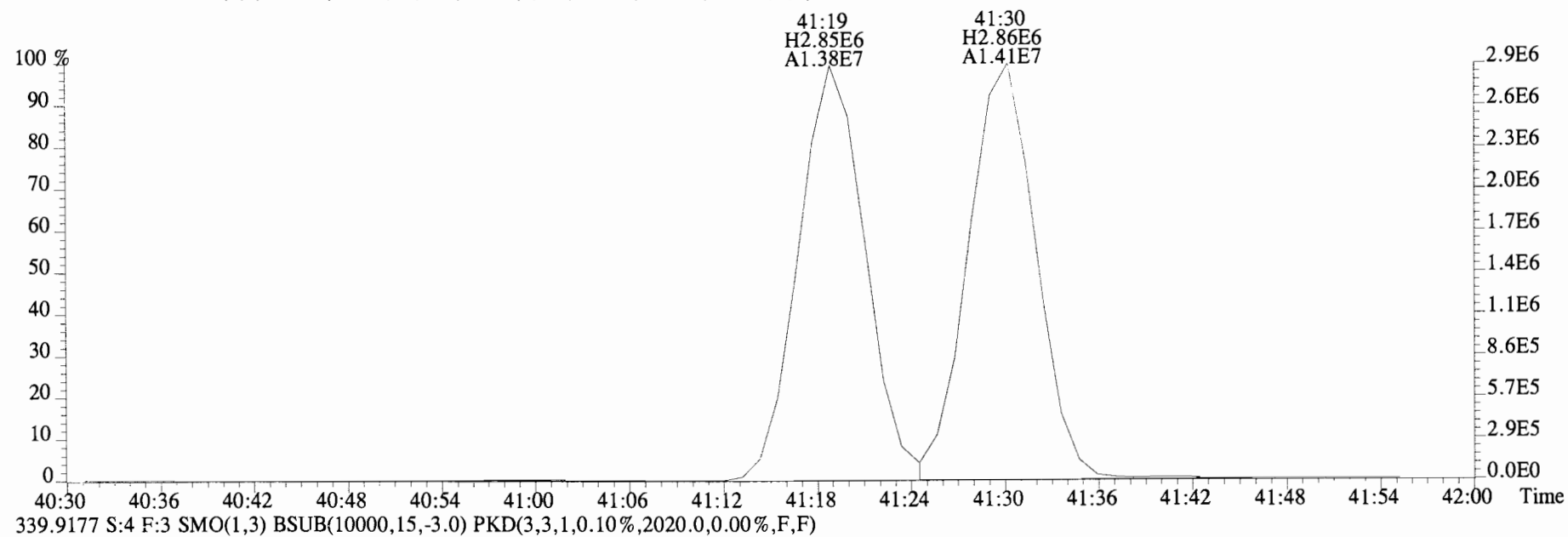
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2492.0,0.00%,F,F)



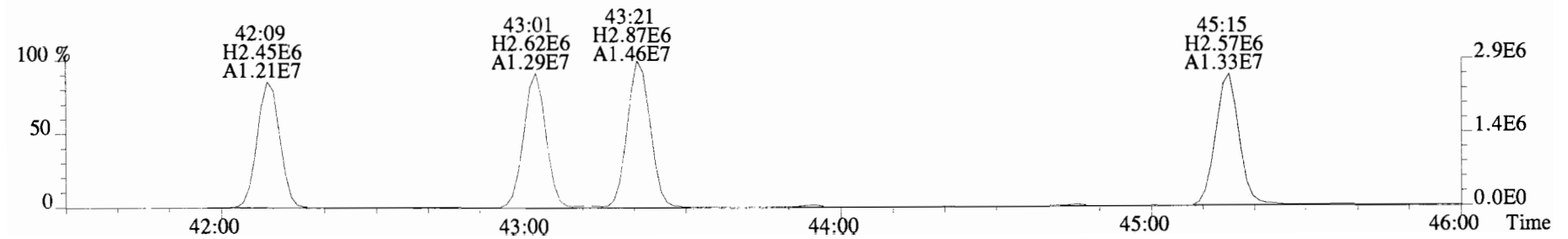
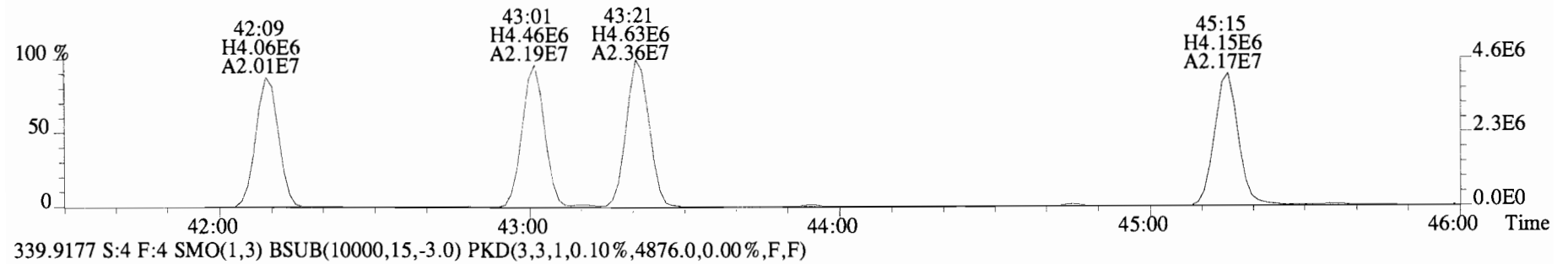
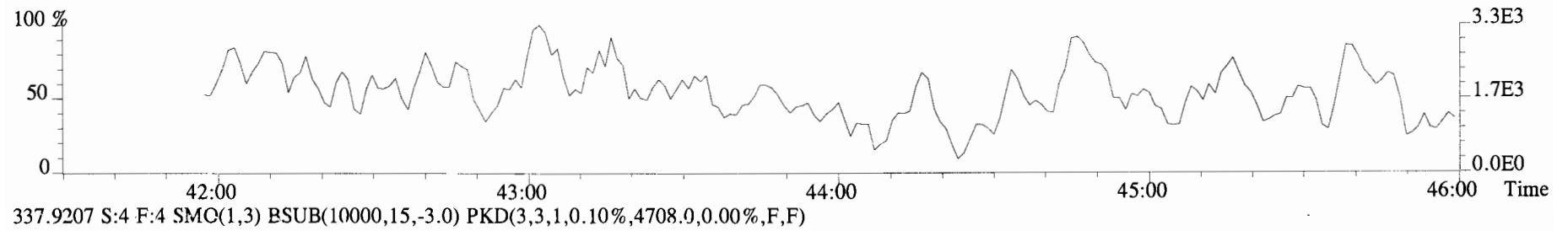
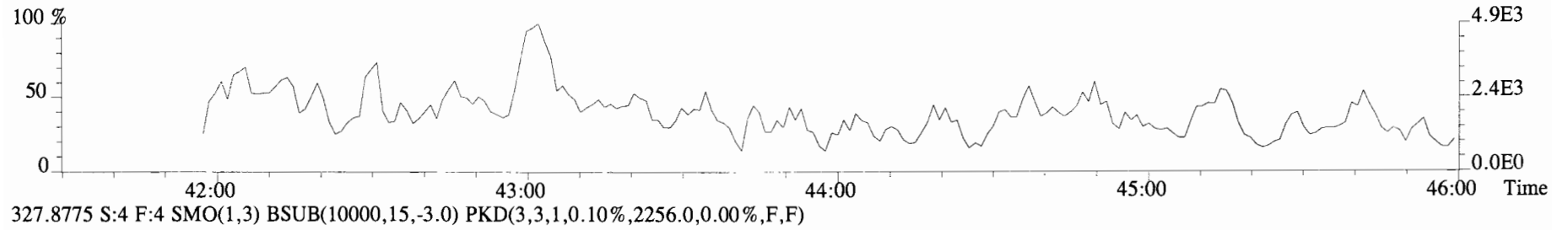
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2020.0,0.00%,F,F)



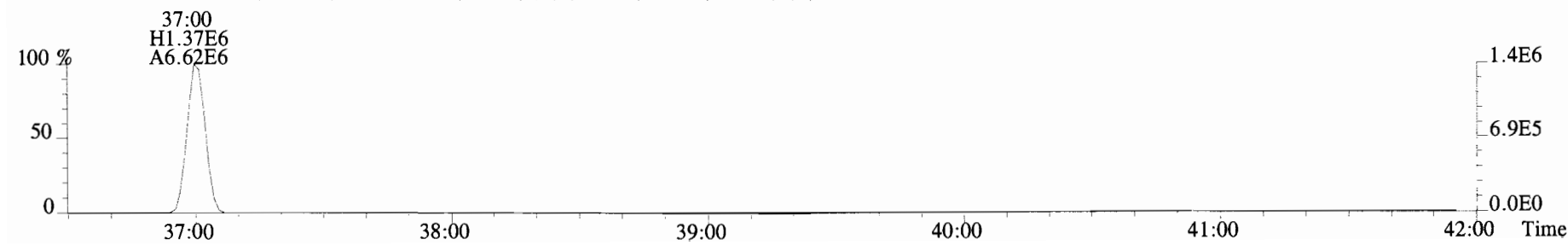
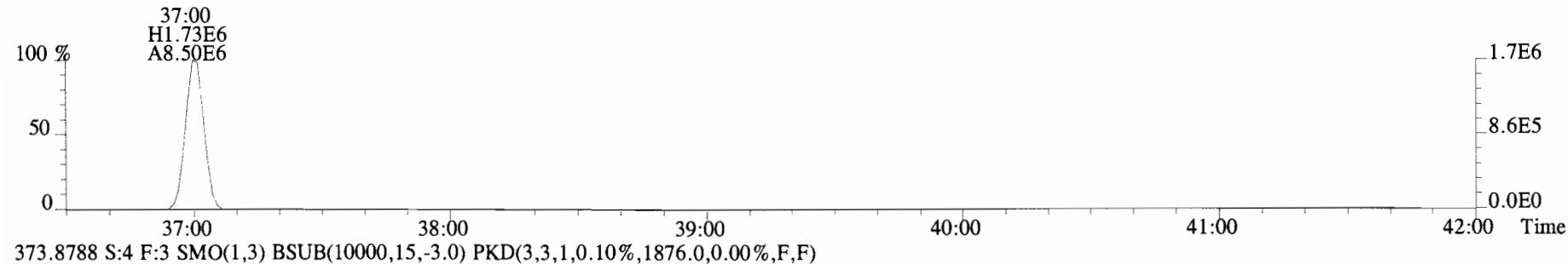
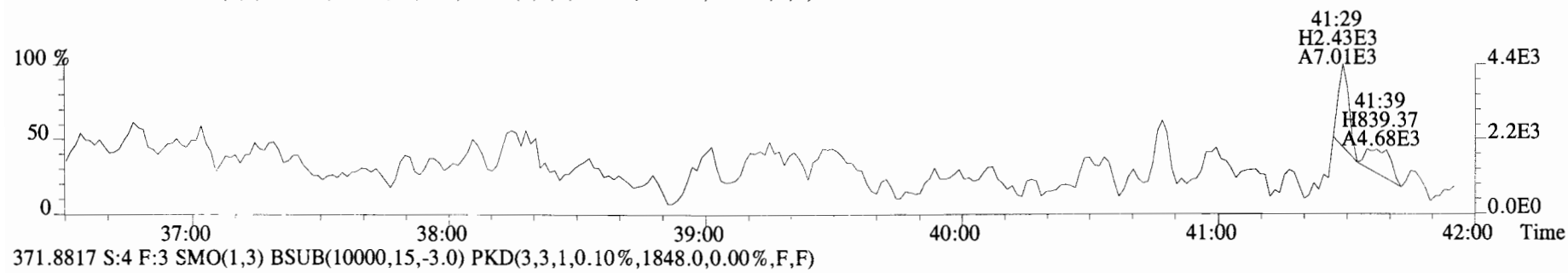
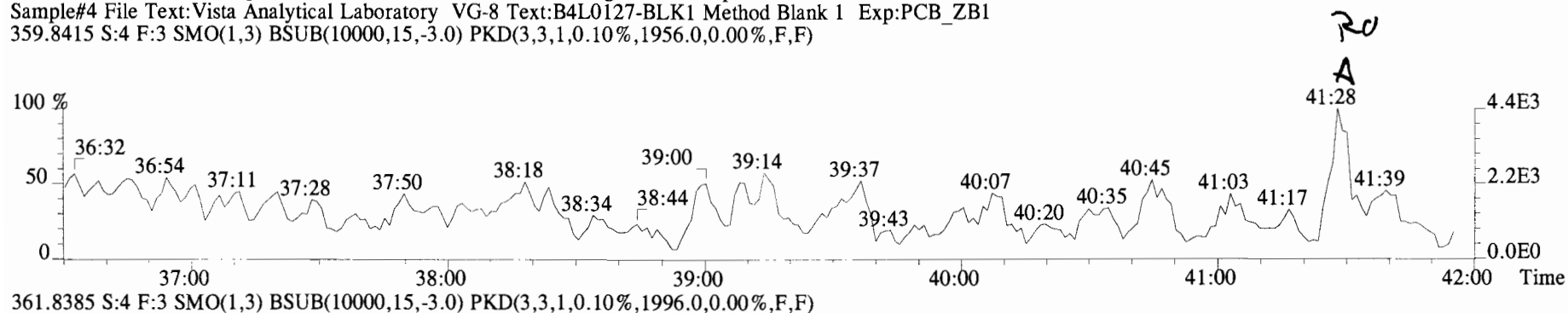
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2492.0,0.00%,F,F)



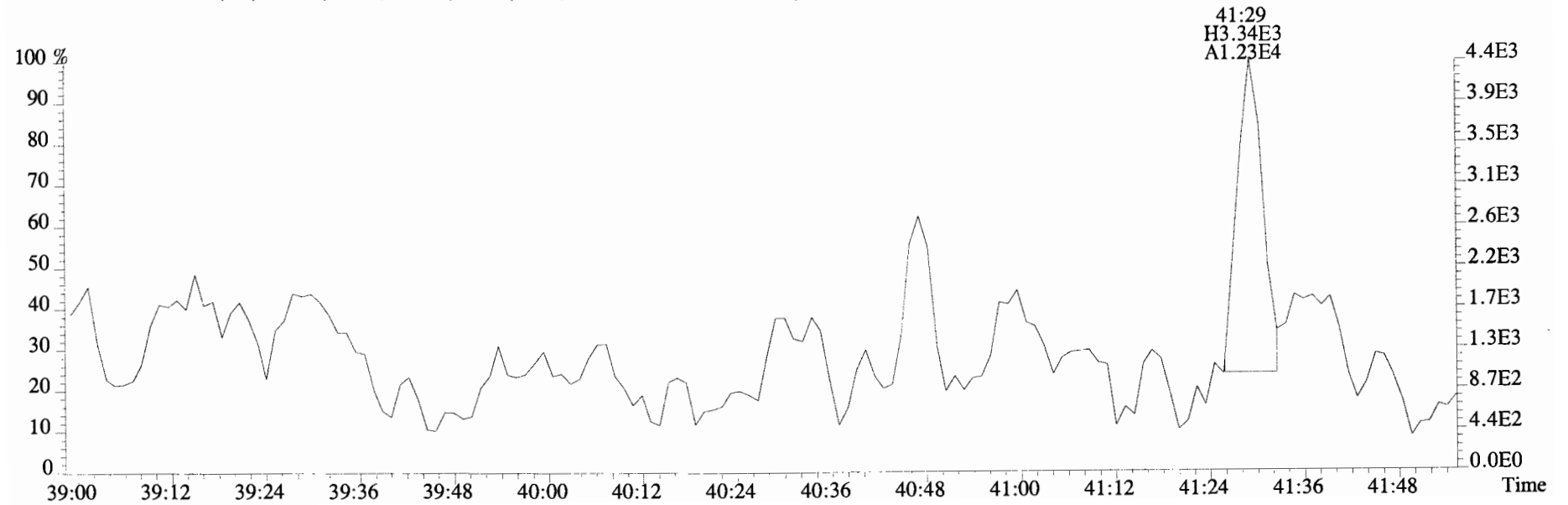
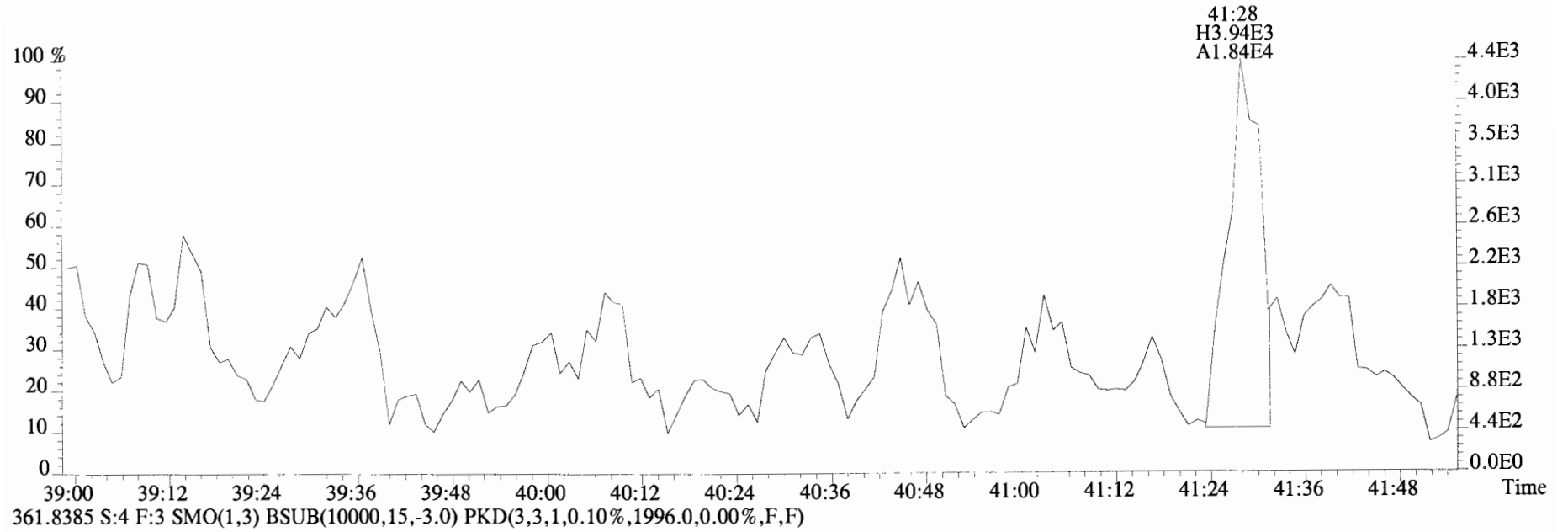
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Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2244.0,0.00%,F,F)



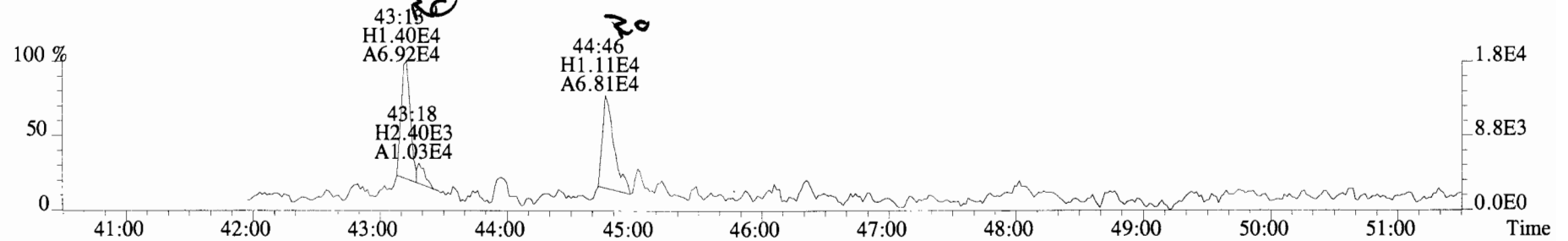
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
 359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



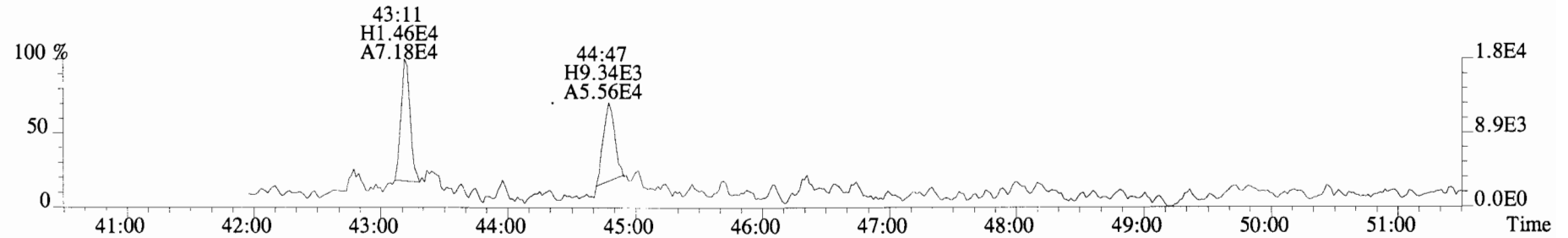
File:141226E1 #1-760 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



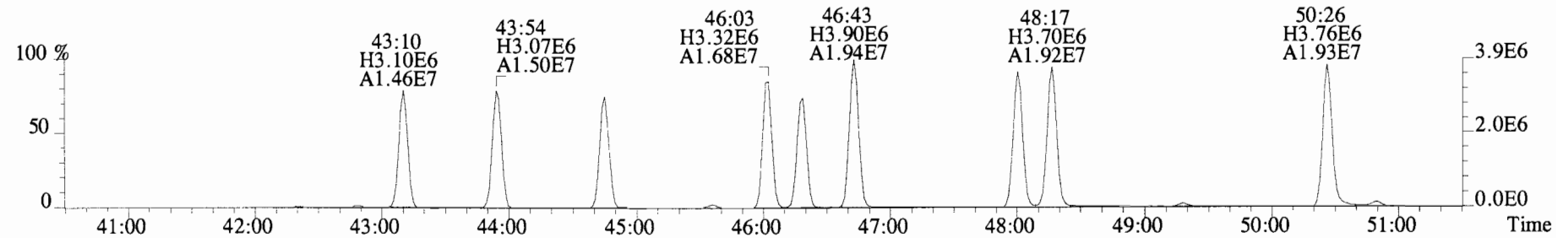
File:141226E1 #1-553 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2208.0,0.00%,F,F)



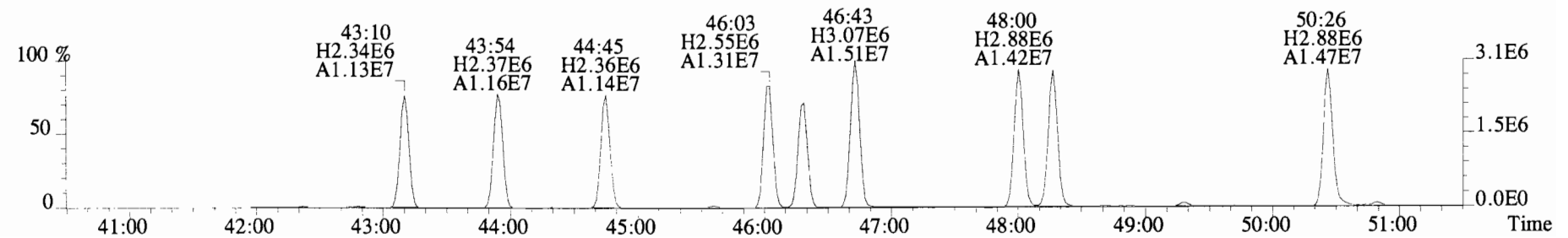
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



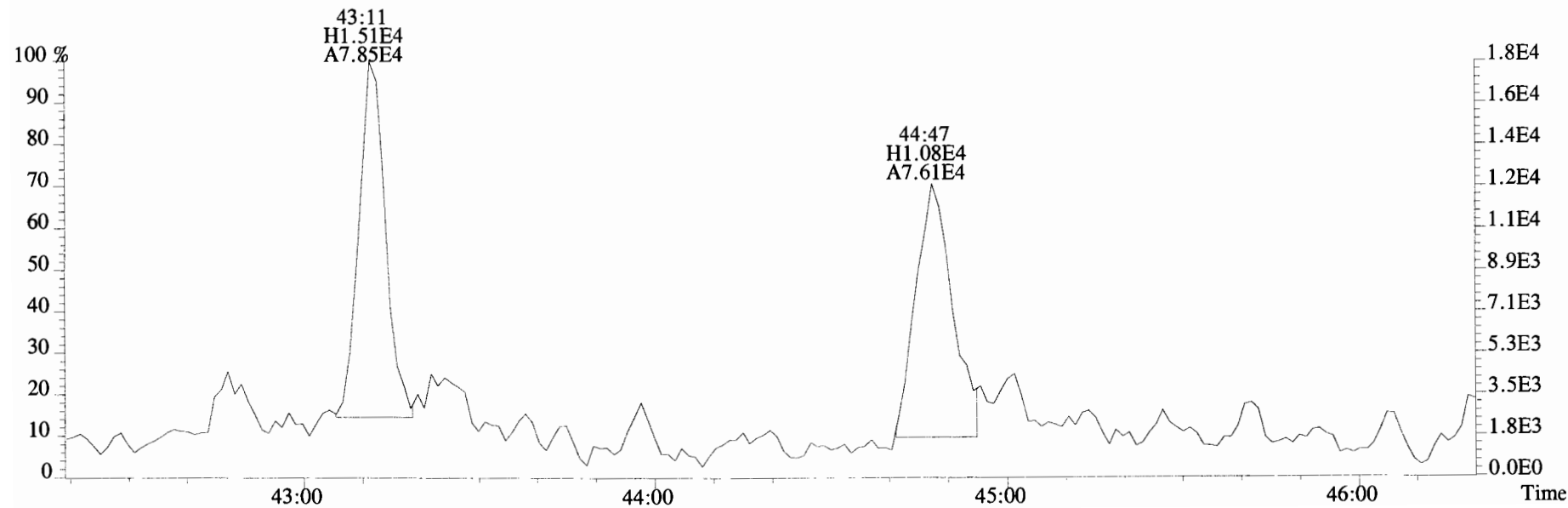
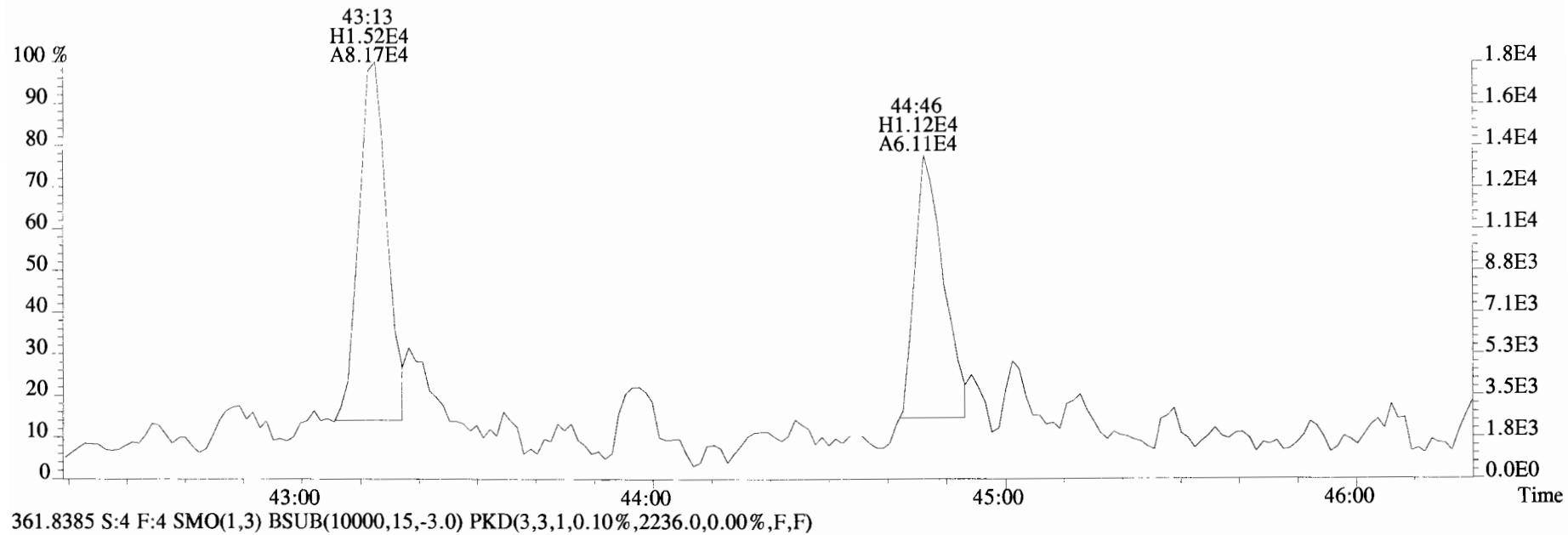
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5160.0,0.00%,F,F)



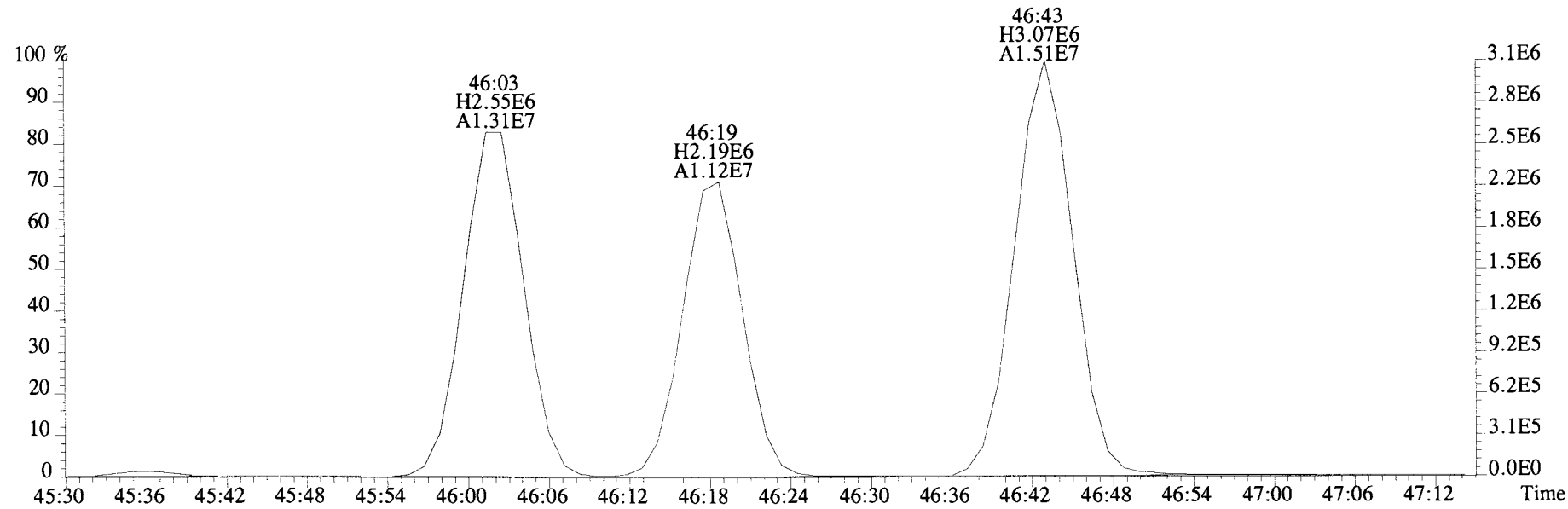
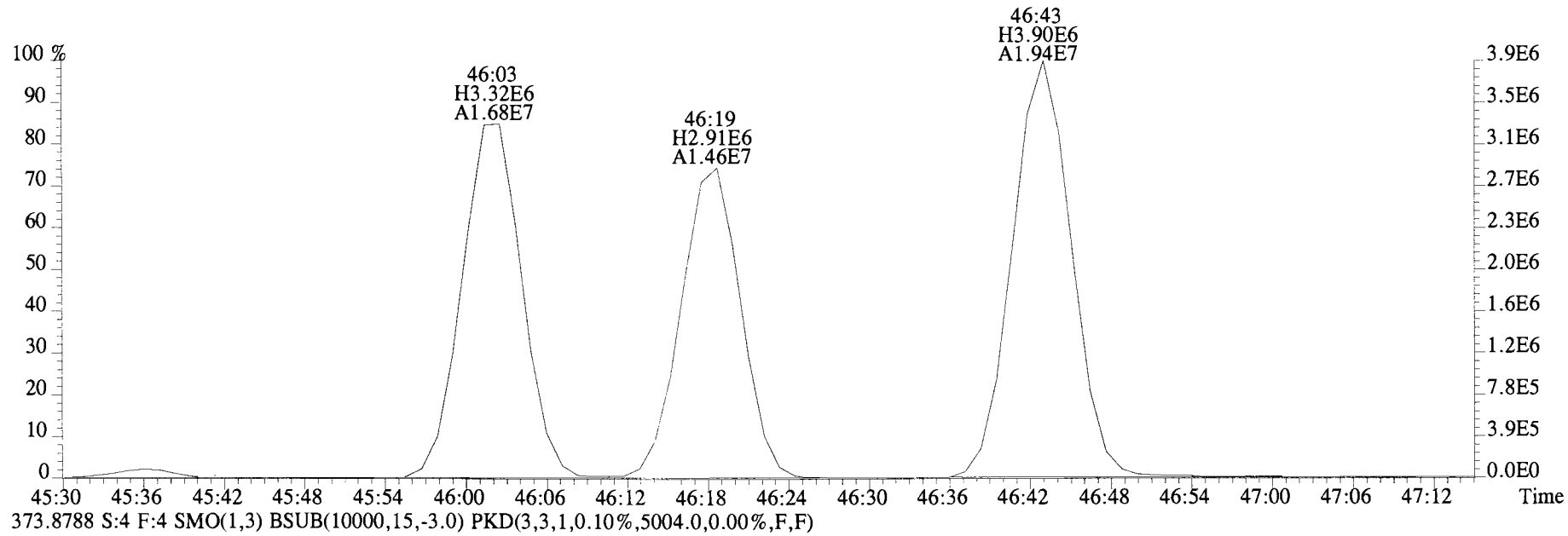
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5004.0,0.00%,F,F)



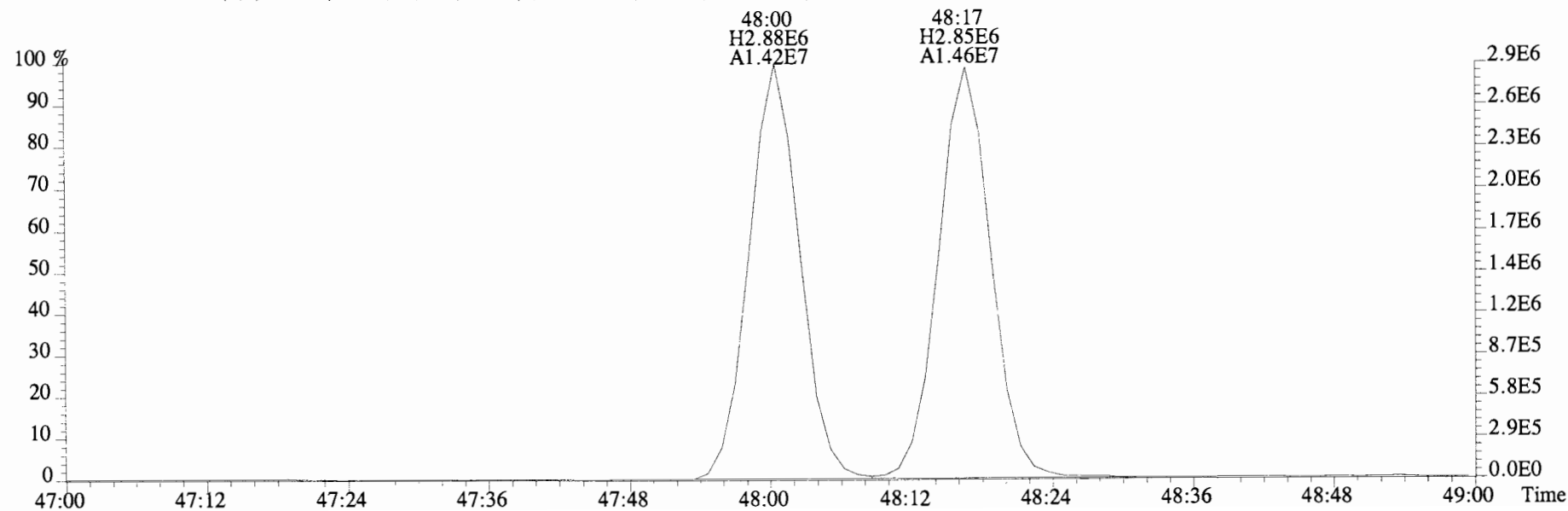
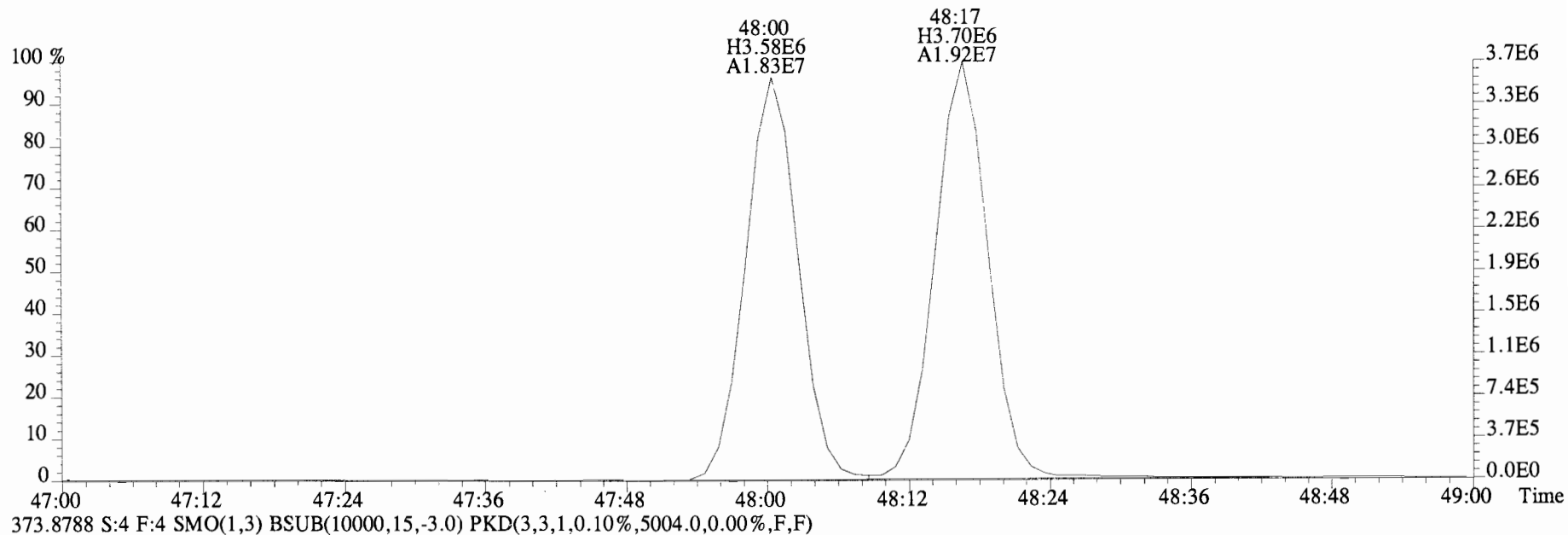
File:141226E1 #1-553 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0)



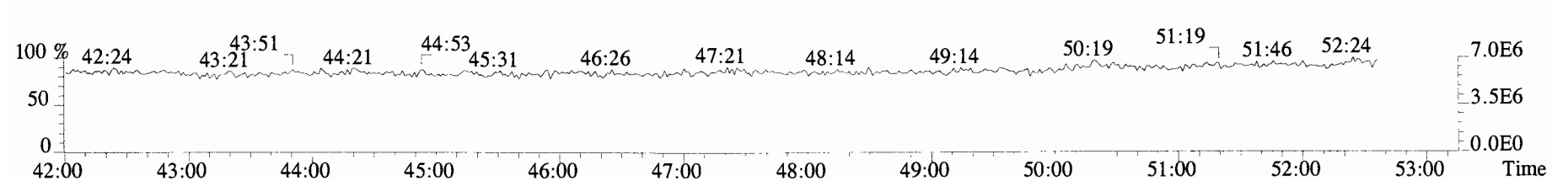
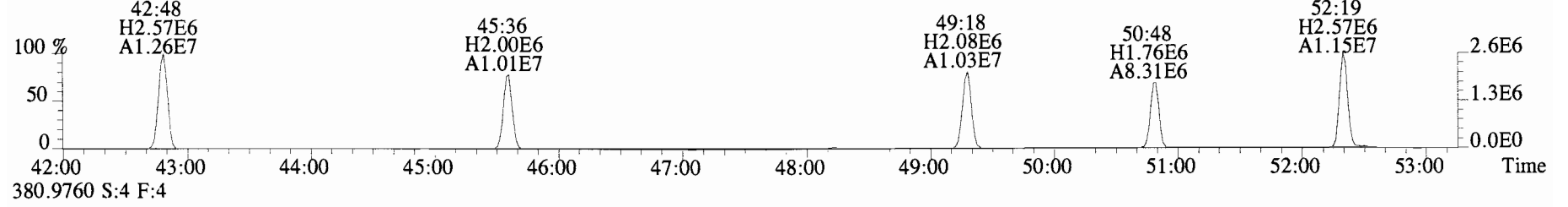
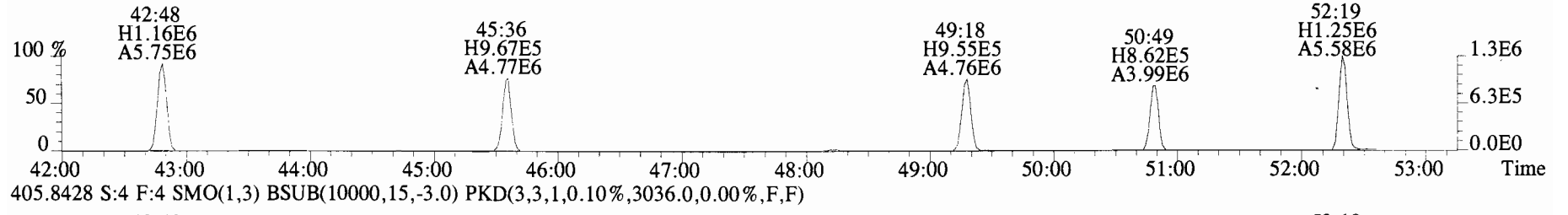
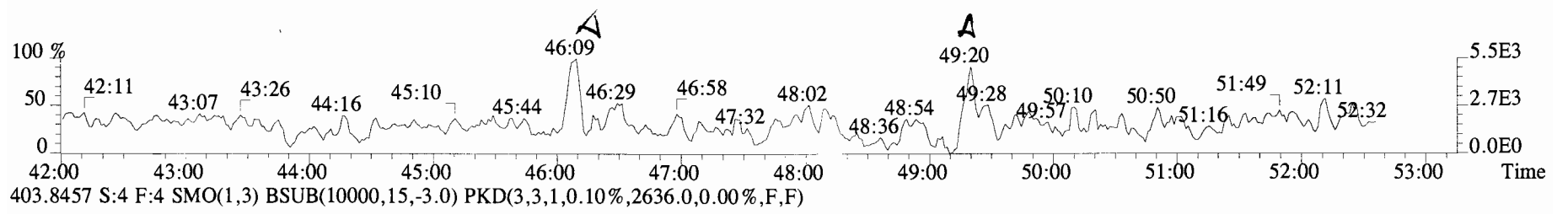
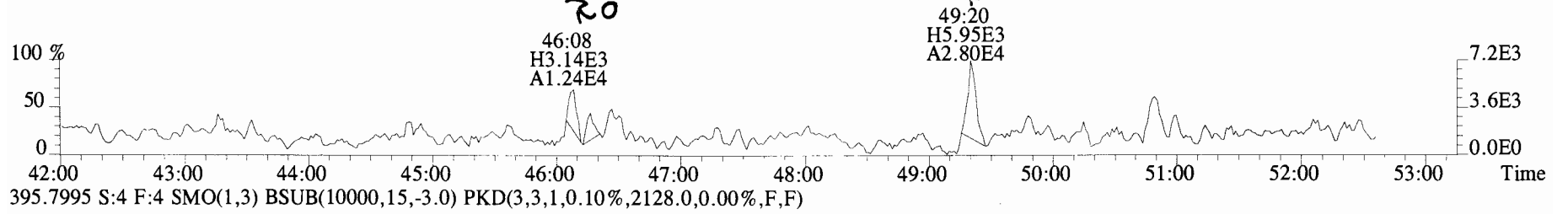
File:141226E1 #1-553 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5160.0,0.00%,F,F)



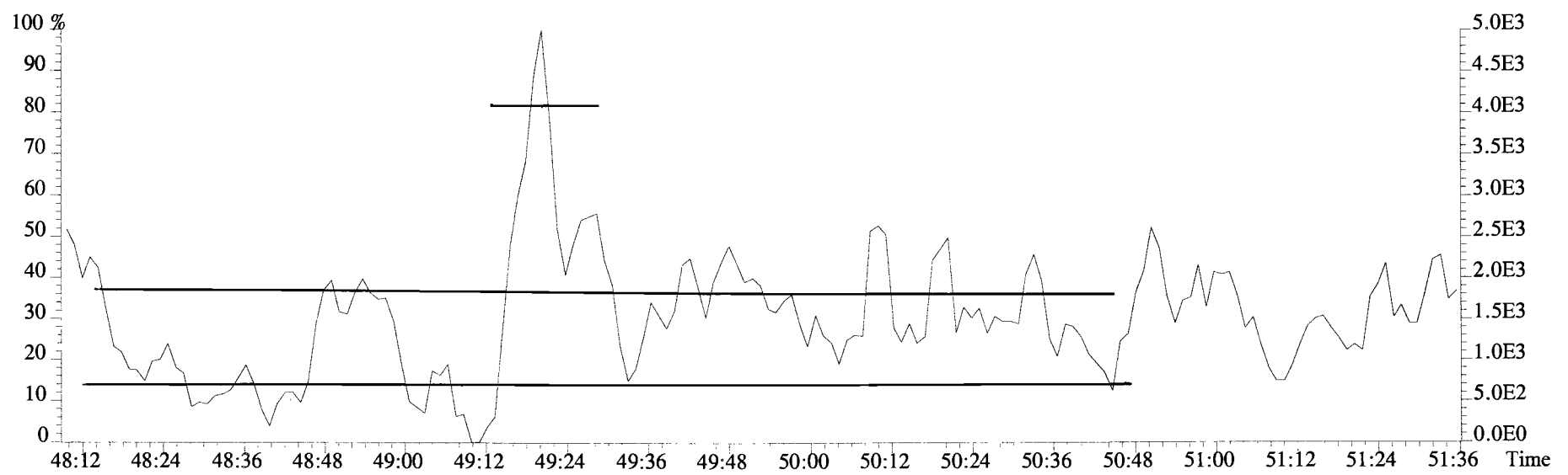
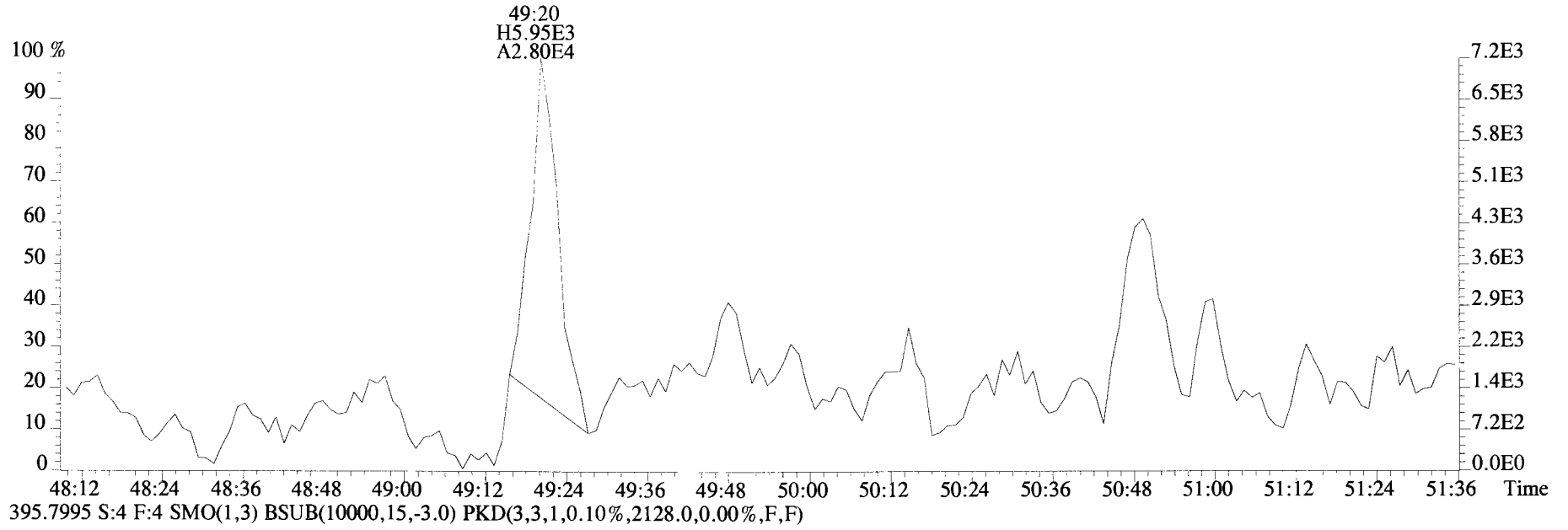
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5160.0,0.00%,F,F)



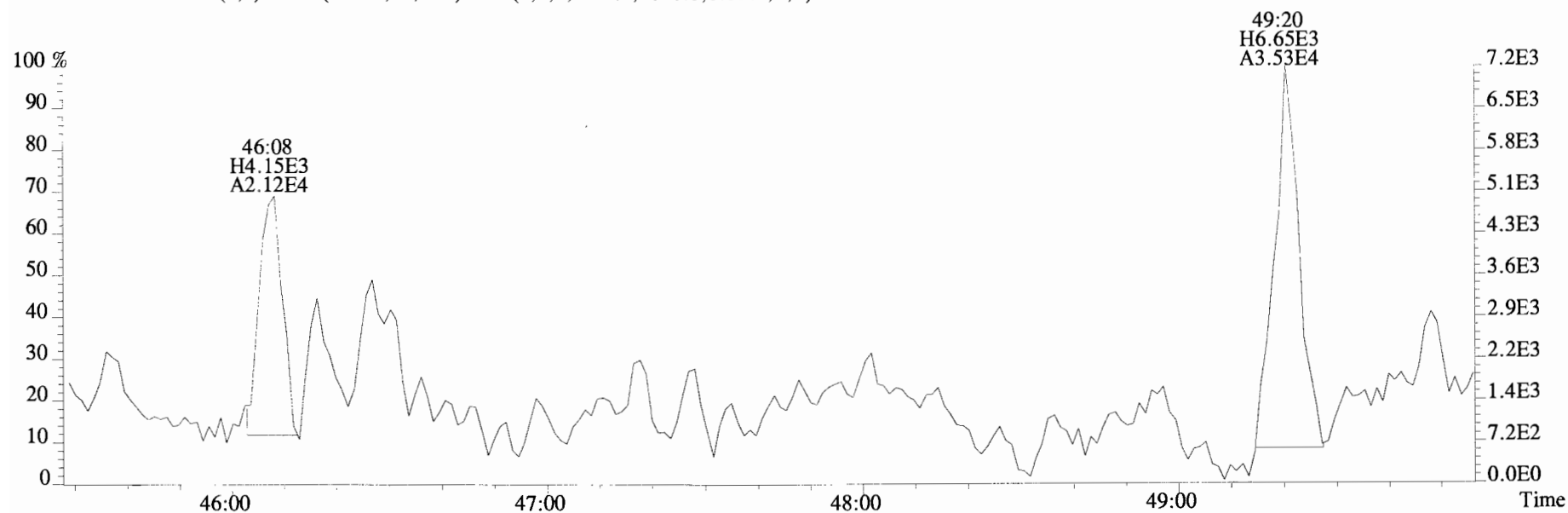
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



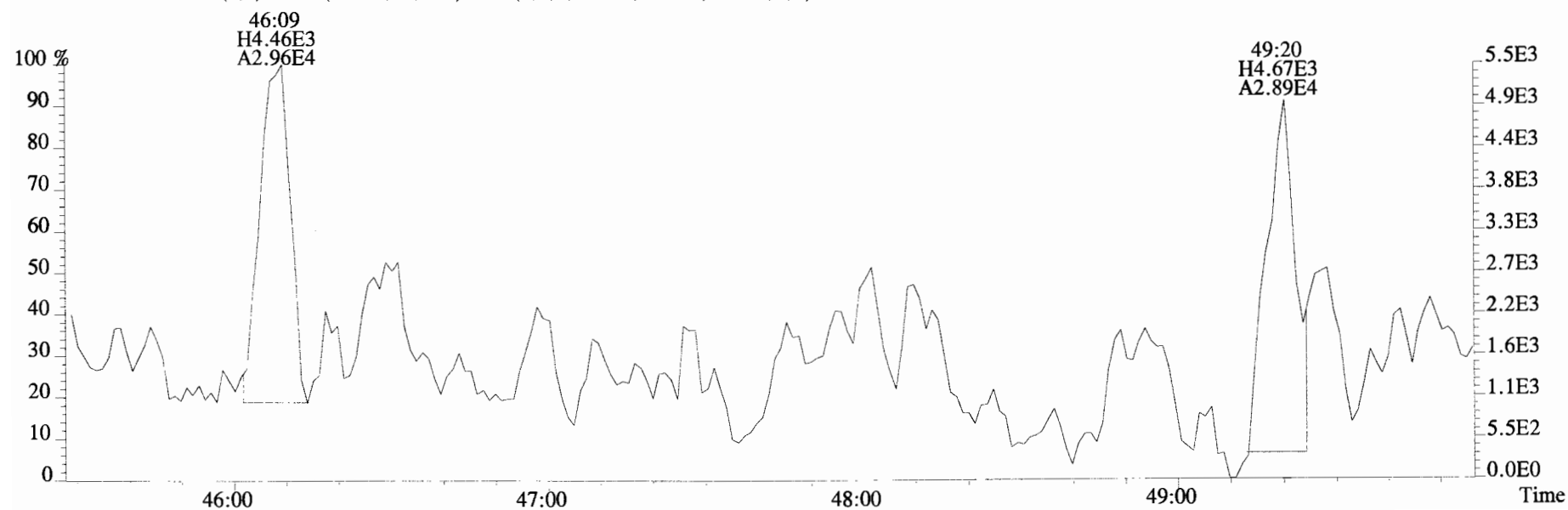
File:141226E1 #1-553 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



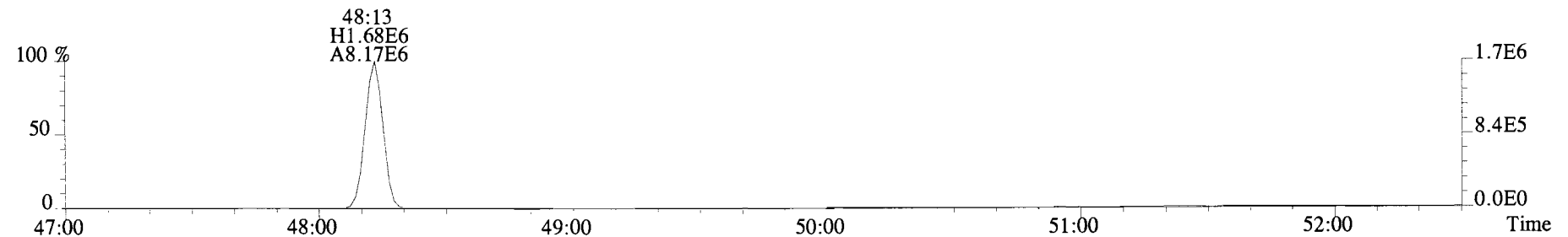
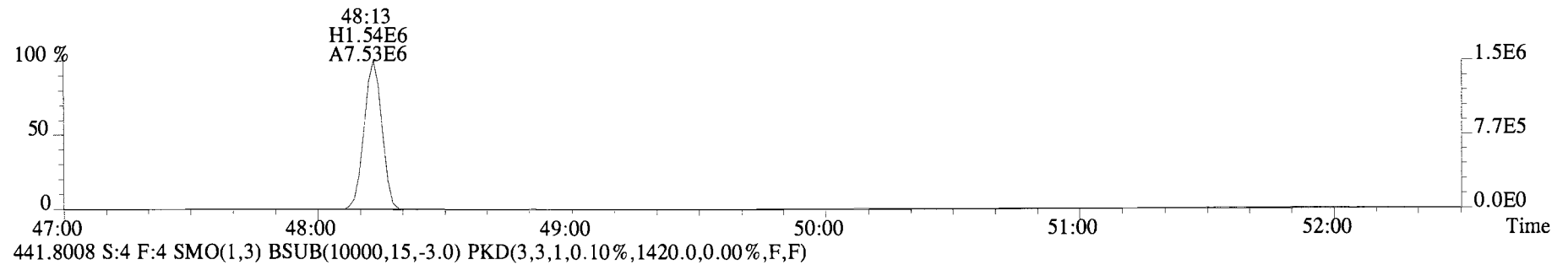
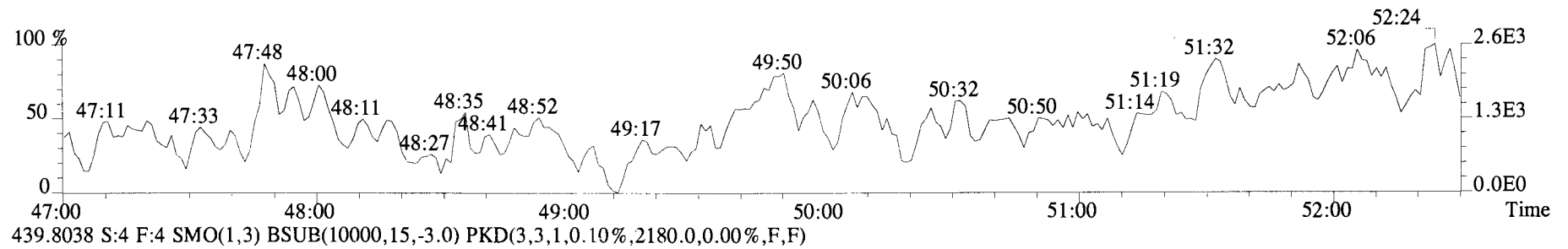
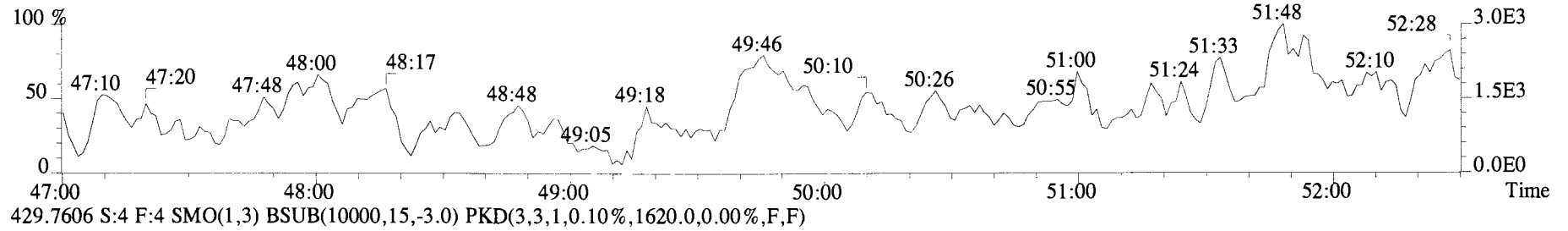
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



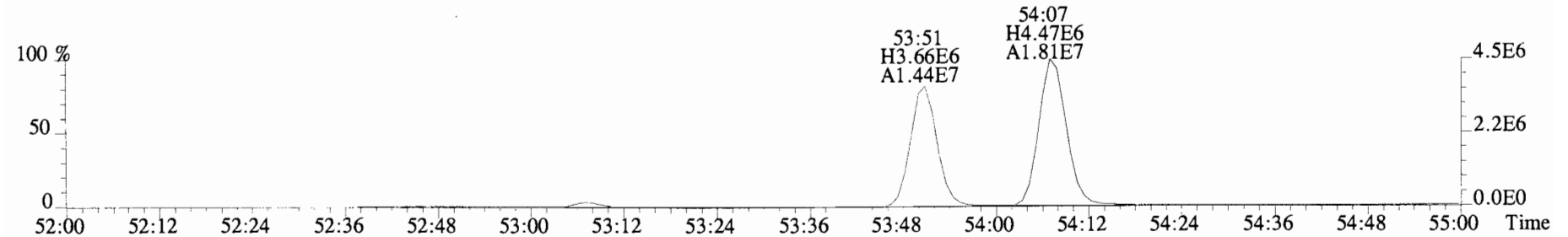
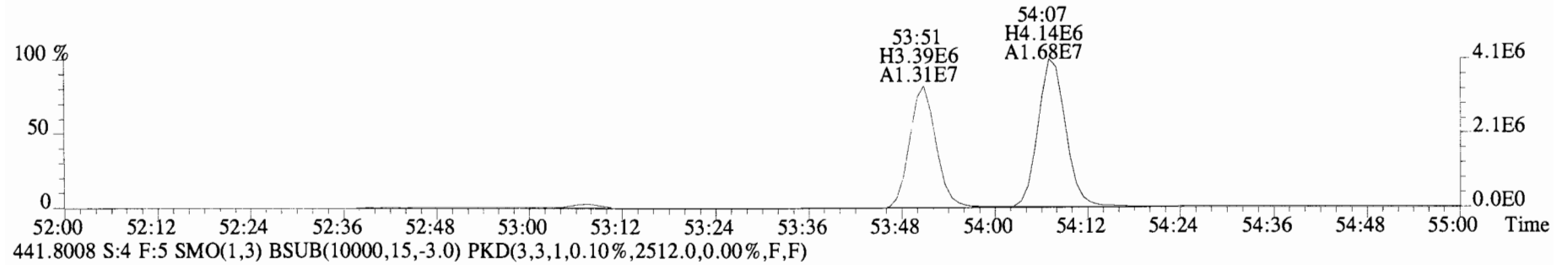
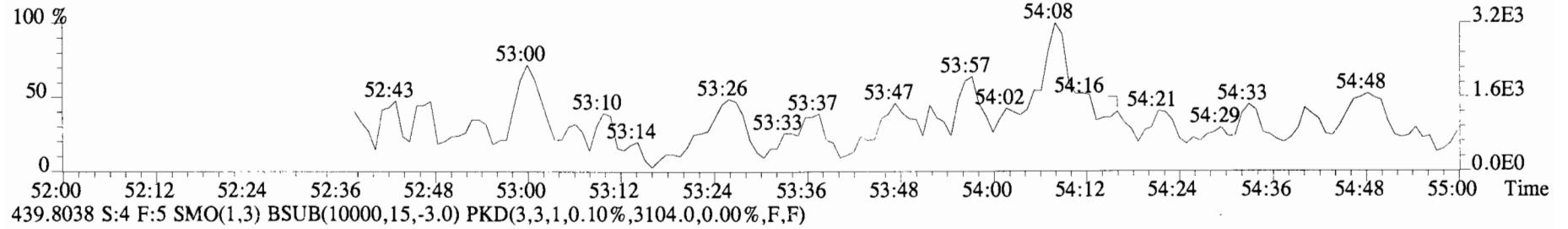
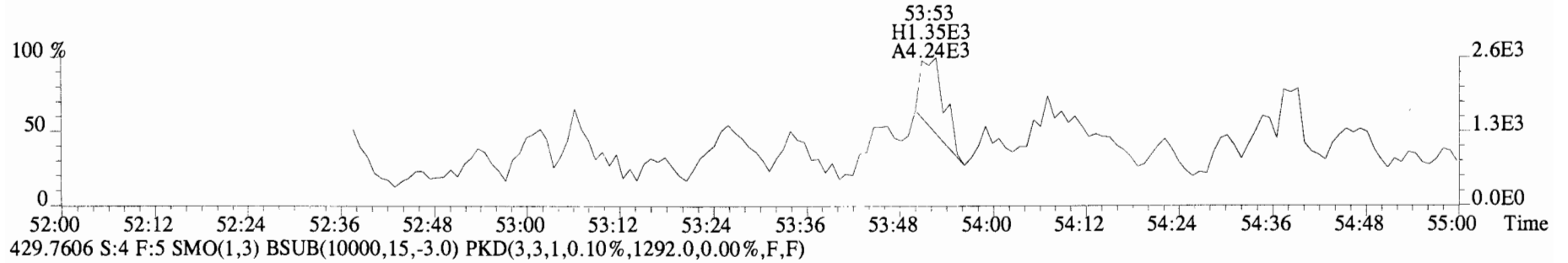
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



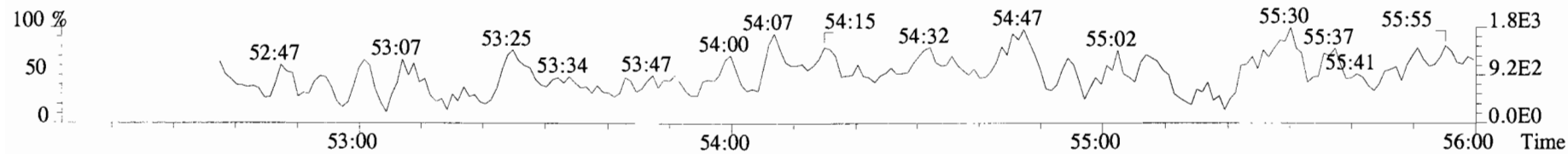
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



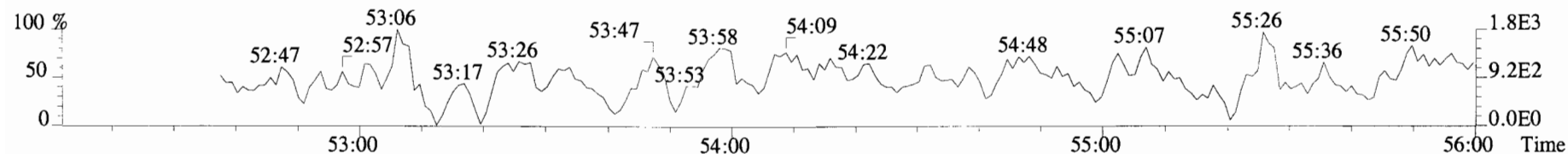
File:141226E1 #1-429 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1312.0,0.00%,F,F)



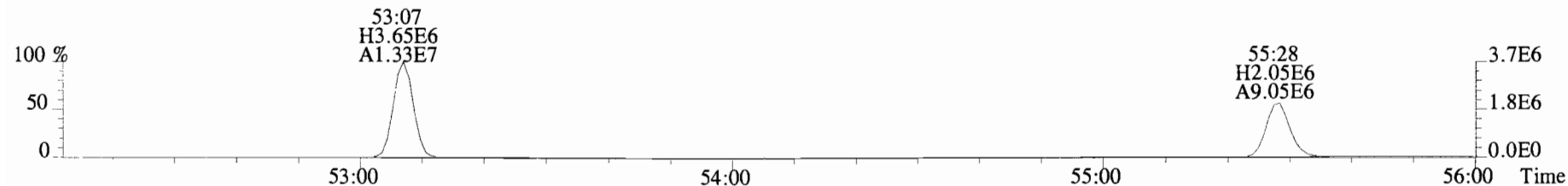
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BLK1 Method Blank 1 Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1188.0,0.00%,F,F)



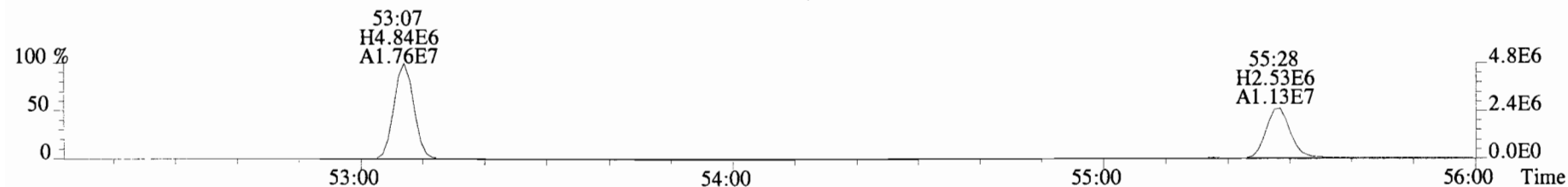
465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1196.0,0.00%,F,F)



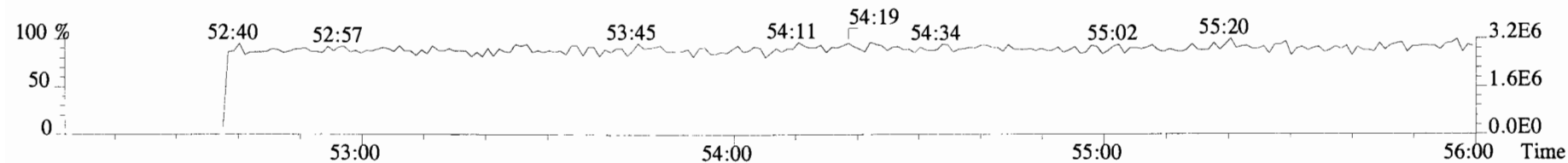
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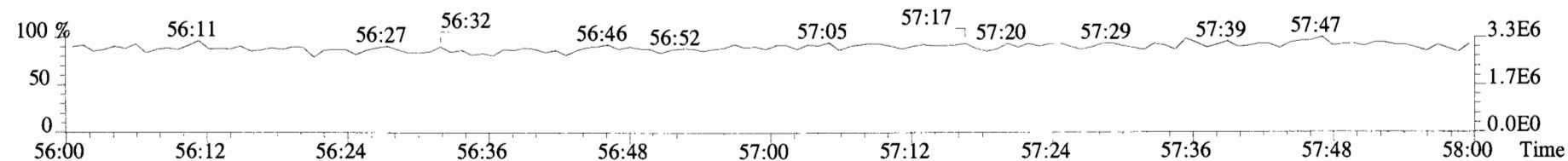
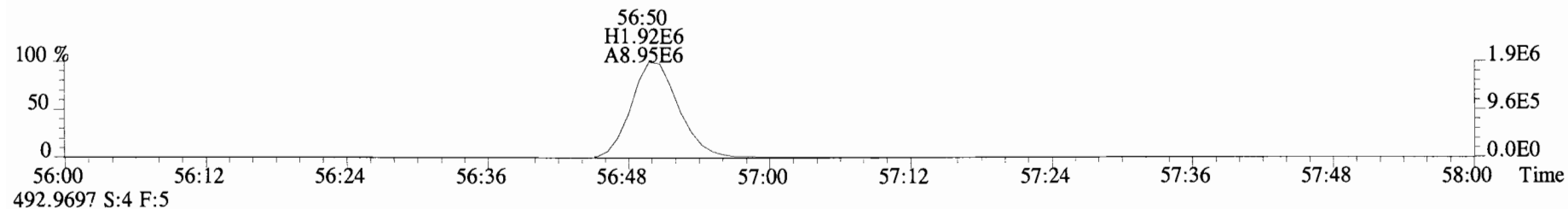
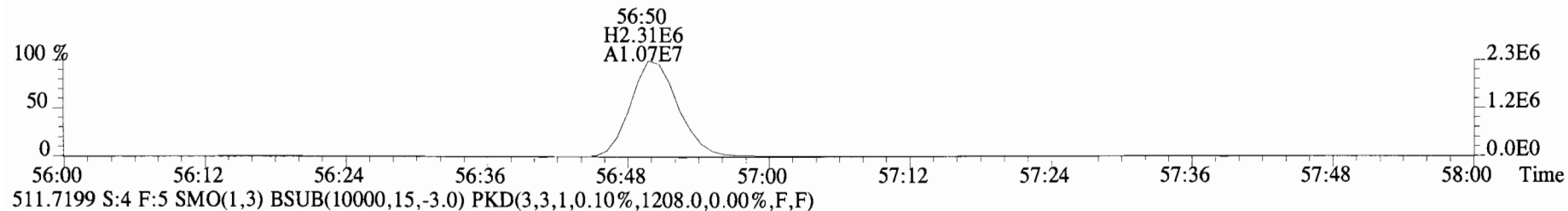
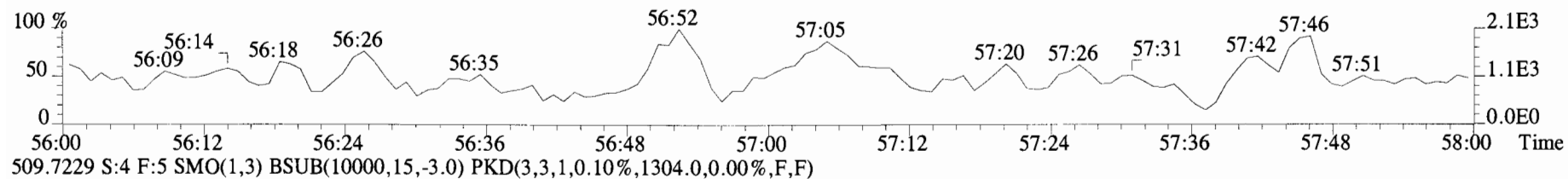
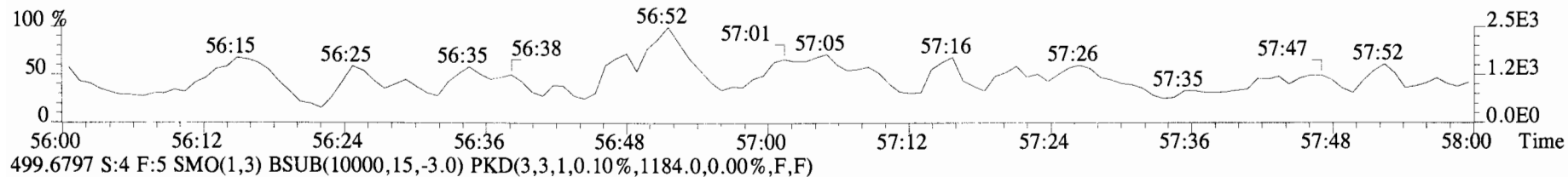
475.7619 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8648.0,0.00%,F,F)



492.9697 S:4 F:5



File:141226E1 #1-429 Acq:26-DEC-2014 14:35:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-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%,1284.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B4L0127-BS1

Matrix : AQUEOUS Ext. Date: 23-DEC-14 Analysis Date: 26-DEC-14 Time: 12:27:01

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	50.4	30.0-67.5	13C-PCB-1	100	74.0	15-145	13C-PCB-79	100	99.8	40-145
PCB-3	50	50.7	30.0-67.5	13C-PCB-3	100	71.7	15-145	13C-PCB-178	100	88.8	40-145
PCB-4/10	200	248.2	120-270	13C-PCB-4	100	69.1	15-145				
PCB-15	100	120.4	60.0-135	13C-PCB-11	100	76.0	15-145				
PCB-19	50	53.7	30.0-67.5	13C-PCB-19	100	65.3	15-145				
PCB-37	50	54.2	30.0-67.5	13C-PCB-37	100	87.8	15-145				
PCB-54	50	54.3	30.0-67.5	13C-PCB-54	100	74.9	15-145				
PCB-81	50	53.7	30.0-67.5	13C-PCB-81	100	93.2	40-145				
PCB-77	50	54.2	30.0-67.5	13C-PCB-77	100	94.5	40-145				
PCB-104	50	56.2	30.0-67.5	13C-PCB-104	100	74.5	40-145				
PCB-123	50	59.6	30.0-67.5	13C-PCB-123	100	90.5	40-145				
PCB-106/118	100	112.9	60.0-135	13C-PCB-118	100	93.2	40-145				
PCB-114	50	60.0	30.0-67.5	13C-PCB-114	100	100.9	40-145				
PCB-105	50	60.8	30.0-67.5	13C-PCB-105	100	105.8	40-145				
PCB-126	50	59.1	30.0-67.5	13C-PCB-126	100	110.8	40-145				
PCB-155	50	55.4	30.0-67.5	13C-PCB-155	100	71.3	40-145				
PCB-167	50	57.3	30.0-67.5	13C-PCB-167	100	95.1	40-145				
PCB-156	50	57.7	30.0-67.5	13C-PCB-156	100	96.4	40-145				
PCB-157	50	58.1	30.0-67.5	13C-PCB-157	100	95.5	40-145				
PCB-169	50	60.6	30.0-67.5	13C-PCB-169	100	92.5	40-145				
PCB-188	50	54.7	30.0-67.5	13C-PCB-188	100	74.6	40-145				
PCB-189	50	59.5	30.0-67.5	13C-PCB-189	100	86.2	40-145				
PCB-202	50	54.3	30.0-67.5	13C-PCB-202	100	71.5	40-145				
PCB-205	50	59.0	30.0-67.5	13C-PCB-194	100	92.1	40-145				
PCB-208	50	58.9	30.0-67.5	13C-PCB-208	100	70.1	40-145				
PCB-206	50	60.0	30.0-67.5	13C-PCB-206	100	82.2	40-145				
PCB-209	50	58.6	30.0-67.5	13C-PCB-209	100	86.9	40-145				

Analyst: CP
 Date: 12/30/14

Client ID: OPR
Lab ID: B4L0127-BS1

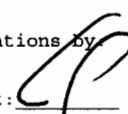
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GC Column ID: ZB-1

S:2 Acq:26-DEC-14 12:27:01
ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	2.47e+07	3.05	y 16:08	1.25	50.4		*	2.5	*	1.000	0.996-1.006	
Mono	PCB-2	2.44e+07	3.01	y 18:31	1.18	52.4		*	2.5	*	0.988	0.983-0.993	
Mono	PCB-3	2.43e+07	3.02	y 18:45	1.22	50.7		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	8.64e+07	1.64	y 20:07	1.55	248		*	2.5	*	1.003	0.998-1.008	
Di	PCB-7/9	1.06e+08	1.63	y 21:53	1.27	241		*	2.5	*	0.868	0.865-0.873	
Di	PCB-6	5.36e+07	1.68	y 22:32	1.26	122		*	2.5	*	0.894	0.890-0.899	
Di	PCB-5/8	1.08e+08	1.65	y 22:57	1.23	251		*	2.5	*	0.910	0.906-0.916	
Di	PCB-14	6.09e+07	1.65	y 24:03	1.23	117		*	2.5	*	0.954	0.949-0.959	
Di	PCB-11	5.76e+07	1.65	y 25:14	1.16	118		*	2.5	*	1.001	0.996-1.006	
Di	PCB-12/13	1.13e+08	1.65	y 25:37	1.10	245		*	2.5	*	1.016	1.010-1.020	
Di	PCB-15	6.13e+07	1.65	y 25:56	1.21	120		*	2.5	*	1.028	1.024-1.034	
Tri	PCB-19	1.43e+07	1.07	y 24:13	1.30	53.7		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	2.09e+07	1.08	y 25:07	1.83	55.5		*	2.5	*	1.038	1.032-1.042	
Tri	PCB-18	1.54e+07	1.08	y 25:51	0.86	55.5		*	2.5	*	0.953	0.949-0.959	
Tri	PCB-17	1.61e+07	1.08	y 26:02	0.90	55.4		*	2.5	*	0.960	0.955-0.965	
Tri	PCB-24/27	4.41e+07	1.08	y 26:36	1.18	116		*	2.5	*	0.981	0.976-0.986	
Tri	PCB-16/32	3.77e+07	1.08	y 27:07	1.03	113		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	2.92e+07	1.06	y 27:55	1.26	60.1		*	2.5	*	0.960	0.956-0.966	
Tri	PCB-23	2.57e+07	1.08	y 28:01	1.31	50.8		*	2.5	*	0.964	0.959-0.969	
Tri	PCB-29	2.68e+07	1.08	y 28:15	1.33	52.3		*	2.5	*	0.972	0.967-0.977	
Tri	PCB-26	2.59e+07	1.08	y 28:28	1.29	52.1		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	2.67e+07	1.06	y 28:37	1.34	51.6		*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	2.74e+07	1.07	y 28:59	1.42	50.1		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	2.93e+07	1.08	y 29:04	1.38	55.2		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	8.14e+07	1.06	y 29:42	1.31	161		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	3.05e+07	1.04	y 30:08	1.32	59.8		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	2.71e+07	1.07	y 30:44	1.38	51.3		*	2.5	*	0.933	0.929-0.939	
Tri	PCB-39	2.83e+07	1.07	y 31:13	1.42	52.0		*	2.5	*	0.948	0.943-0.953	
Tri	PCB-38	2.73e+07	1.08	y 31:59	1.35	52.6		*	2.5	*	0.971	0.967-0.976	
Tri	PCB-35	2.78e+07	1.08	y 32:31	1.38	52.8		*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	2.89e+07	1.06	y 32:56	1.39	54.2		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-54	1.76e+07	0.77	y 27:57	1.20	54.3		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-50	1.34e+07	0.81	y 29:08	0.97	51.1		*	2.5	*	1.042	1.037-1.047	
Tetra	PCB-53	1.42e+07	0.78	y 29:46	1.19	52.2		*	2.5	*	0.946	0.941-0.951	
Tetra	PCB-51	1.51e+07	0.81	y 30:07	1.15	57.2		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	1.16e+07	0.79	y 30:33	0.97	52.3		*	2.5	*	0.971	0.966-0.976	
Tetra	PCB-46	1.06e+07	0.75	y 31:01	0.95	48.7		*	2.5	*	0.986	0.982-0.992	

Integrations by:

Analyst: 

Date: 12/30/14

Reviewed by: 

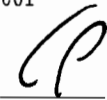
Date: 12/31/14

Client ID: OPR
Lab ID: B4L0127-BS1

Filename: 141226E1 S:2 Acq:26-DEC-14 12:27:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	3.02e+07	0.78	y 31:30	1.28	103	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-73	1.86e+07	0.77	y 31:36	1.37	59.0	*	2.5	*	*	1.004	1.000-1.010	
Tetra	PCB-43/49	2.79e+07	0.78	y 31:47	1.11	109	*	2.5	*	*	1.010	1.005-1.015	
Tetra	PCB-47	1.39e+07	0.78	y 31:59	1.13	50.2	*	2.5	*	*	1.000	0.996-1.006	
Tetra	PCB-48/75	3.34e+07	0.80	y 32:06	1.30	105	*	2.5	*	*	1.004	0.999-1.009	
Tetra	PCB-65	1.80e+07	0.80	y 32:22	1.33	55.3	*	2.5	*	*	1.012	1.007-1.017	
Tetra	PCB-62	1.56e+07	0.78	y 32:29	1.29	49.6	*	2.5	*	*	1.016	1.011-1.021	
Tetra	PCB-44	1.29e+07	0.79	y 32:47	0.94	56.0	*	2.5	*	*	1.025	1.020-1.030	
Tetra	PCB-42/59	3.31e+07	0.79	y 33:01	1.22	111	*	2.5	*	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	7.30e+07	0.79	y 33:36	1.31	228	*	2.5	*	*	1.051	1.046-1.056	
Tetra	PCB-68	2.05e+07	0.79	y 33:51	1.49	56.6	*	2.5	*	*	1.058	1.054-1.064	
Tetra	PCB-40	1.11e+07	0.80	y 34:04	0.82	55.3	*	2.5	*	*	1.065	1.061-1.071	
Tetra	PCB-57	2.08e+07	0.80	y 34:26	1.11	53.1	*	2.5	*	*	0.970	0.965-0.975	
Tetra	PCB-67	1.96e+07	0.77	y 34:44	1.07	51.8	*	2.5	*	*	0.979	0.974-0.984	
Tetra	PCB-58	2.19e+07	0.78	y 34:51	1.10	56.6	*	2.5	*	*	0.982	0.977-0.987	
Tetra	PCB-63	2.14e+07	0.81	y 35:00	1.12	54.5	*	2.5	*	*	0.986	0.982-0.992	
Tetra	PCB-74	2.26e+07	0.83	y 35:17	1.20	53.5	*	2.5	*	*	0.994	0.990-1.000	
Tetra	PCB-61/70	4.07e+07	0.76	y 35:28	1.08	107	*	2.5	*	*	1.000	0.994-1.004	
Tetra	PCB-76/66	4.33e+07	0.78	y 35:41	1.14	108	*	2.5	*	*	1.006	1.001-1.011	
Tetra	PCB-80	2.41e+07	0.79	y 35:54	1.28	52.6	*	2.5	*	*	1.000	0.996-1.006	
Tetra	PCB-55	2.13e+07	0.80	y 36:14	1.11	53.5	*	2.5	*	*	1.009	1.005-1.015	
Tetra	PCB-56/60	4.27e+07	0.78	y 36:43	1.09	110	*	2.5	*	*	1.023	1.018-1.028	
Tetra	PCB-79	2.35e+07	0.79	y 37:48	1.12	58.2	*	2.5	*	*	1.053	1.048-1.058	
Tetra	PCB-78	2.28e+07	0.79	y 38:29	1.24	55.3	*	2.5	*	*	0.987	0.982-0.992	
Tetra	PCB-81	2.47e+07	0.79	y 39:01	1.38	53.7	*	2.5	*	*	1.000	0.995-1.005	
Tetra	PCB-77	2.35e+07	0.82	y 39:36	1.21	54.2	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	1.28e+07	1.59	y 32:39	1.26	56.2	*	2.5	*	*	1.001	0.996-1.006	
Penta	PCB-96	1.21e+07	1.58	y 33:54	1.09	60.8	*	2.5	*	*	1.039	1.034-1.044	
Penta	PCB-103	1.01e+07	1.60	y 34:27	0.93	59.5	*	2.5	*	*	1.056	1.050-1.060	
Penta	PCB-100	1.11e+07	1.66	y 34:47	1.00	60.9	*	2.5	*	*	1.066	1.061-1.071	
Penta	PCB-94	9.59e+06	1.62	y 35:16	1.11	58.1	*	2.5	*	*	0.986	0.981-0.991	
Penta	PCB-95/98/102	3.09e+07	1.63	y 35:45	1.21	171	*	2.5	*	*	0.999	0.994-1.004	
Penta	PCB-93	8.85e+06	1.67	y 35:53	1.13	52.5	*	2.5	*	*	1.003	0.998-1.008	
Penta	PCB-88/91	1.96e+07	1.62	y 36:10	1.02	129	*	2.5	*	*	1.011	1.006-1.016	
Penta	PCB-121	1.34e+07	1.65	y 36:17	1.90	47.3	*	2.5	*	*	1.014	1.009-1.019	
Penta	PCB-84/92	1.95e+07	1.57	y 37:06	1.05	111	*	2.5	*	*	0.990	0.986-0.996	
Penta	PCB-89	9.52e+06	1.59	y 37:17	1.02	56.0	*	2.5	*	*	0.995	0.991-1.001	

Analyst: 

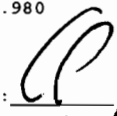
Date: 12/30/14

Client ID: OPR
Lab ID: B4L0127-BS1

Filename: 141226E1 S:2 Acq:26-DEC-14 12:27:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	2.22e+07	1.63	y 37:29	1.19	112	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-113	1.24e+07	1.62	y 37:42	1.35	54.9	*	2.5	*	*	1.006	1.002-1.012	
Penta	PCB-99	1.27e+07	1.60	y 37:48	1.29	58.8	*	2.5	*	*	1.009	1.005-1.015	
Penta	PCB-119	1.46e+07	1.65	y 38:16	1.72	54.7	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	2.25e+07	1.63	y 38:26	1.29	113	*	2.5	*	*	0.991	0.986-0.996	
Penta	PCB-83	1.32e+07	1.57	y 38:35	1.52	56.1	*	2.5	*	*	0.995	0.991-1.001	
Penta	PCB-97	1.09e+07	1.55	y 38:47	1.25	56.0	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-86	8.83e+06	1.56	y 38:55	1.02	55.6	*	2.5	*	*	1.004	1.000-1.010	
Penta	PCB-87/117/125	3.96e+07	1.60	y 39:03	1.56	164	*	2.5	*	*	1.007	1.002-1.012	
Penta	PCB-111/115	2.91e+07	1.60	y 39:12	1.75	107	*	2.5	*	*	1.011	1.007-1.017	
Penta	PCB-85/116	2.33e+07	1.64	y 39:20	1.30	115	*	2.5	*	*	1.015	1.010-1.020	
Penta	PCB-120	1.53e+07	1.64	y 39:35	1.78	55.4	*	2.5	*	*	1.021	1.016-1.026	
Penta	PCB-110	1.49e+07	1.64	y 39:43	1.68	57.2	*	2.5	*	*	1.025	1.020-1.030	
Penta	PCB-82	8.89e+06	1.60	y 40:20	0.74	57.2	*	2.5	*	*	0.976	0.972-0.982	
Penta	PCB-124	1.63e+07	1.60	y 41:01	1.32	58.6	*	2.5	*	*	0.993	0.988-0.998	
Penta	PCB-107/109	3.02e+07	1.62	y 41:10	1.22	117	*	2.5	*	*	0.996	0.991-1.001	
Penta	PCB-123	1.53e+07	1.60	y 41:21	1.22	59.6	*	2.5	*	*	1.001	0.995-1.005	
Penta	PCB-106/118	3.11e+07	1.62	y 41:32	1.22	113	*	2.5	*	*	1.001	0.996-1.006	
Penta	PCB-114	2.53e+07	1.64	y 42:11	1.36	60.0	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-122	2.25e+07	1.68	y 42:19	1.24	58.3	*	2.5	*	*	1.004	0.999-1.009	
Penta	PCB-105	2.61e+07	1.63	y 43:02	1.28	60.8	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	2.49e+07	1.63	y 43:22	1.14	59.9	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-126	2.50e+07	1.64	y 45:16	1.28	59.1	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	9.15e+06	1.31	y 37:02	1.14	55.4	*	2.5	*	*	1.001	0.966-1.006	
Hexa	PCB-150	9.38e+06	1.27	y 38:18	1.06	60.5	*	2.5	*	*	1.035	1.030-1.040	
Hexa	PCB-152	9.75e+06	1.26	y 38:46	1.10	61.0	*	2.5	*	*	1.048	1.043-1.053	
Hexa	PCB-145	9.64e+06	1.27	y 39:13	1.09	60.6	*	2.5	*	*	1.060	1.055-1.065	
Hexa	PCB-136	1.02e+07	1.28	y 39:32	1.08	64.4	*	2.5	*	*	1.068	1.064-1.074	
Hexa	PCB-148	6.60e+06	1.27	y 39:38	0.74	61.2	*	2.5	*	*	1.071	1.066-1.076	
Hexa	PCB-154	7.96e+06	1.26	y 40:08	0.88	61.9	*	2.5	*	*	1.085	1.079-1.089	
Hexa	PCB-151	7.30e+06	1.23	y 40:46	0.81	62.0	*	2.5	*	*	1.102	1.097-1.107	
Hexa	PCB-135	6.94e+06	1.28	y 40:59	0.78	61.2	*	2.5	*	*	1.108	1.101-1.113	
Hexa	PCB-144	7.34e+06	1.25	y 41:06	0.82	61.5	*	2.5	*	*	1.111	1.105-1.116	
Hexa	PCB-147	8.16e+06	1.31	y 41:13	0.83	67.6	*	2.5	*	*	1.114	1.011-1.120	
Hexa	PCB-139/149	1.57e+07	1.28	y 41:29	0.84	128	*	2.5	*	*	1.121	1.115-1.127	
Hexa	PCB-140	7.21e+06	1.30	y 41:40	0.79	63.1	*	2.5	*	*	1.126	1.120-1.132	
Hexa	PCB-134/143	2.57e+07	1.26	y 42:06	0.93	108	*	2.5	*	*	0.975	0.970-0.980	

Analyst: 


Date: 12/30/14

Client ID: OPR
Lab ID: B4L0127-BS1

Filename: 141226E1 S:2 Acq:26-DEC-14 12:27:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	2.58e+07	1.26	y 42:23	0.95	106	*	2.5	*	*	0.981	0.977-0.987	
Hexa	PCB-131	1.25e+07	1.25	y 42:34	0.91	53.1	*	2.5	*	*	0.986	0.981-0.991	
Hexa	PCB-146/165	3.30e+07	1.28	y 42:47	1.16	111	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	3.24e+07	1.26	y 43:02	1.11	113	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	1.70e+07	1.26	y 43:12	1.18	56.0	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-168	1.94e+07	1.25	y 43:25	1.37	55.1	*	2.5	*	*	1.005	1.000-1.010	
Hexa	PCB-141	1.35e+07	1.25	y 43:56	0.97	54.9	*	2.5	*	*	1.000	0.996-1.005	
Hexa	PCB-137	1.54e+07	1.24	y 44:19	1.07	57.0	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	1.30e+07	1.27	y 44:25	0.85	60.9	*	2.5	*	*	1.011	1.007-1.017	
Hexa	PCB-138/163/164	5.36e+07	1.27	y 44:48	1.23	174	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	3.79e+07	1.25	y 45:02	1.29	117	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	1.29e+07	1.28	y 45:16	0.92	55.7	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	1.84e+07	1.28	y 45:43	1.12	55.5	*	2.5	*	*	0.993	0.988-0.998	
Hexa	PCB-159	1.97e+07	1.25	y 46:03	1.16	57.0	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-128/162	3.36e+07	1.24	y 46:20	1.02	111	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	1.96e+07	1.30	y 46:44	1.06	57.3	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	2.09e+07	1.27	y 48:02	1.18	57.7	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-157	2.02e+07	1.27	y 48:17	1.08	58.1	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	1.93e+07	1.25	y 50:28	1.11	60.6	*	2.5	*	*	1.000	0.995-1.005	
Hepta	PCB-188	1.37e+07	1.03	y 42:50	1.40	54.7	*	2.5	*	*	1.001	0.995-1.005	
Hepta	PCB-184	1.23e+07	1.03	y 43:17	1.24	55.6	*	2.5	*	*	1.011	1.006-1.016	
Hepta	PCB-179	1.33e+07	1.04	y 44:04	1.30	57.1	*	2.5	*	*	1.030	1.024-1.034	
Hepta	PCB-176	1.42e+07	1.06	y 44:31	1.36	58.3	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	1.37e+07	1.09	y 45:08	1.28	60.0	*	2.5	*	*	1.055	1.049-1.059	
Hepta	PCB-178	9.99e+06	1.04	y 45:37	0.94	59.7	*	2.5	*	*	1.066	1.061-1.071	
Hepta	PCB-175	1.09e+07	1.08	y 45:58	0.97	63.2	*	2.5	*	*	1.074	1.069-1.079	
Hepta	PCB-182/187	2.27e+07	1.06	y 46:08	1.01	125	*	2.5	*	*	1.078	1.073-1.083	
Hepta	PCB-183	1.17e+07	1.06	y 46:27	1.08	60.4	*	2.5	*	*	1.085	1.080-1.090	
Hepta	PCB-185	1.03e+07	1.06	y 47:07	1.34	51.9	*	2.5	*	*	0.956	0.951-0.961	
Hepta	PCB-174	1.14e+07	1.05	y 47:29	1.34	57.4	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	1.05e+07	1.10	y 47:35	1.36	52.0	*	2.5	*	*	0.966	0.961-0.971	
Hepta	PCB-177	1.01e+07	1.05	y 47:45	1.24	55.1	*	2.5	*	*	0.969	0.964-0.974	
Hepta	PCB-171	1.03e+07	1.07	y 48:02	1.31	53.2	*	2.5	*	*	0.975	0.970-0.980	
Hepta	PCB-173	9.04e+06	1.07	y 48:28	1.16	52.7	*	2.5	*	*	0.983	0.979-0.989	
Hepta	PCB-172	1.01e+07	1.07	y 48:55	1.22	55.8	*	2.5	*	*	0.993	0.988-0.998	
Hepta	PCB-192	1.27e+07	1.06	y 49:07	1.53	56.0	*	2.5	*	*	0.997	0.991-1.001	
Hepta	PCB-180	1.18e+07	1.02	y 49:19	1.43	56.0	*	2.5	*	*	1.001	0.995-1.005	

Analyst: 


Date: 12/30/14

Client ID: OPR
Lab ID: B4L0127-BS1

Filename: 141226E1 S:2 Acq:26-DEC-14 12:27:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	1.36e+07	1.09	y 49:31	1.65	55.5		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	1.39e+07	1.09	y 49:47	1.67	56.2		*	2.5	*	1.010	1.004-1.014	
Hepta	PCB-170	1.04e+07	1.05	y 50:50	1.50	58.3		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	1.38e+07	1.05	y 51:00	2.02	57.5		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	1.45e+07	1.06	y 52:21	1.54	59.5		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	8.60e+06	0.96	y 48:15	1.04	54.3		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	9.45e+06	0.95	y 48:44	1.10	56.2		*	2.5	*	1.010	1.006-1.016	
Octa	PCB-204	8.70e+06	0.91	y 48:53	0.99	57.4		*	2.5	*	1.013	1.009-1.019	
Octa	PCB-197	9.52e+06	0.91	y 49:11	1.07	58.2		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	9.29e+06	0.89	y 50:05	1.02	59.9		*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	6.35e+06	0.90	y 51:26	0.74	56.1		*	2.5	*	1.066	1.058-1.068	
Octa	PCB-199	7.30e+06	0.87	y 51:33	0.73	65.7		*	2.5	*	1.069	1.060-1.070	
Octa	PCB-196/203	1.45e+07	0.90	y 51:49	0.77	123		*	2.5	*	1.074	1.066-1.076	
Octa	PCB-195	1.54e+07	0.89	y 53:00	1.20	53.8		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	1.72e+07	0.90	y 53:52	1.25	57.9		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	1.99e+07	0.91	y 54:09	1.41	59.0		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-208	1.43e+07	1.34	y 53:08	0.96	58.9		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	1.46e+07	1.37	y 53:27	0.92	63.6		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	1.07e+07	1.35	y 55:30	1.03	60.0		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	1.17e+07	1.19	y 56:52	1.18	58.6		*	2.5	*	1.000	0.995-1.005	

Analyst: 


Date: 12/30/14

Client ID: OPR
Lab ID: B4L0127-BS1

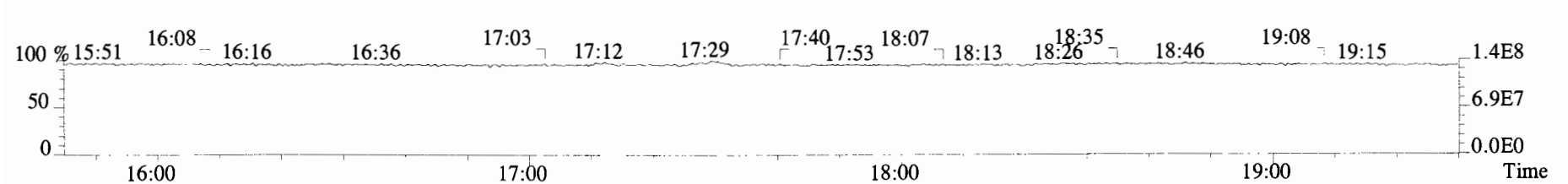
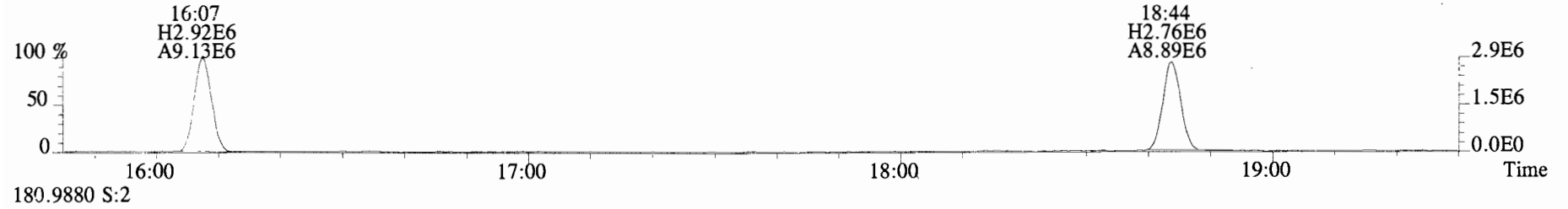
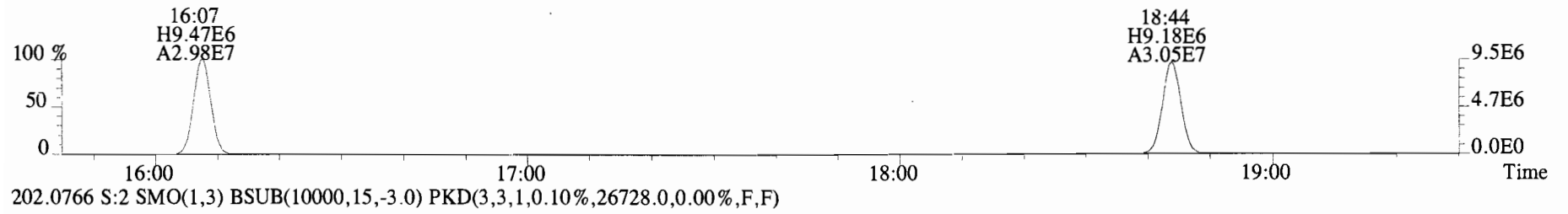
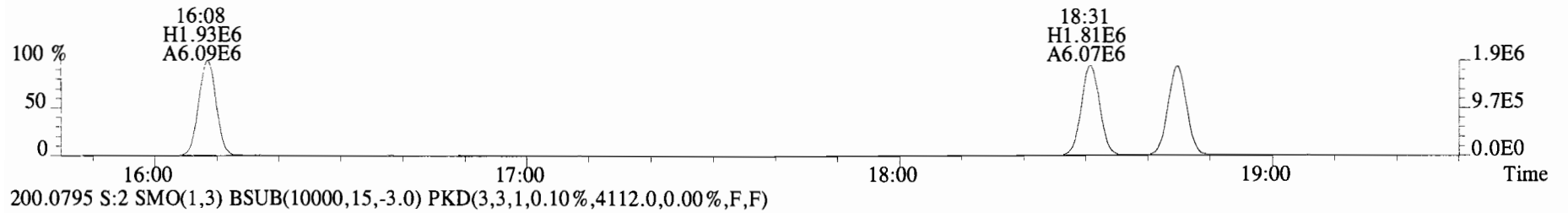
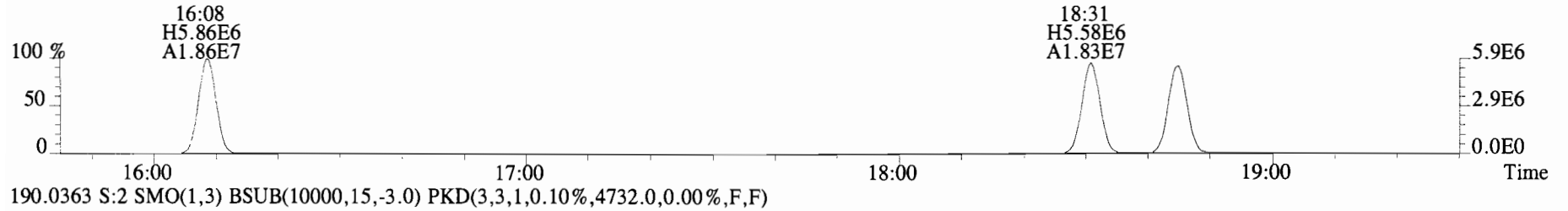
Filename: 141226E1 S:2 Acq:26-DEC-14 12:27:01
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST141226E1-1
EndCAL: NA

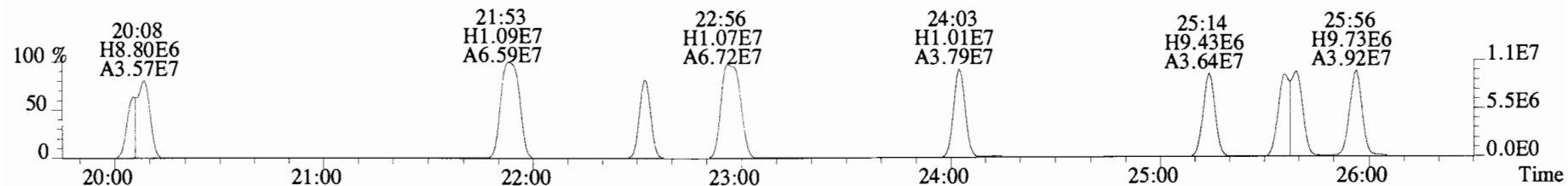
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	3.90e+07	3.27	y	0.89	16:08	0.623	0.622-0.628	74.0	74.0											
13C-PCB-3	3.94e+07	3.43	y	0.93	18:44	0.723	0.721-0.729	71.7	71.7	13C-PCB-79	4.27e+07	0.80	y	1.01	37:47	1.029	1.023-1.033	99.8	99.8	
13C-PCB-4	2.24e+07	1.59	y	0.55	20:03	0.774	0.772-0.780	69.1	69.1	13C-PCB-178	1.43e+07	0.45	y	0.63	45:35	0.984	0.979-0.989	88.8	88.8	
13C-PCB-9	3.49e+07	1.61	y	0.83	21:51	0.843	0.840-0.848	71.3	71.3											
13C-PCB-11	4.21e+07	1.60	y	0.94	25:13	0.973	0.968-0.978	76.0	76.0	PS vs. IS										
13C-PCB-19	2.06e+07	1.08	y	0.53	24:12	0.934	0.929-0.939	65.3	65.3											
13C-PCB-28	3.85e+07	1.11	y	0.89	29:04	1.004	0.999-1.009	82.7	82.7	13C-PCB-79	4.27e+07	0.80	y	1.20	37:47	0.969	0.963-0.973	107	107	
13C-PCB-32	3.23e+07	1.11	y	0.81	27:07	1.046	1.041-1.051	67.1	67.1	13C-PCB-178	1.43e+07	0.45	y	0.94	45:35	0.925	0.920-0.930	103	103	
13C-PCB-37	3.83e+07	1.07	y	0.83	32:56	1.138	1.131-1.143	87.8	87.8											
13C-PCB-47	2.44e+07	0.78	y	0.74	31:59	0.871	0.867-0.875	77.0	77.0											
13C-PCB-52	2.29e+07	0.83	y	0.71	31:28	0.857	0.853-0.861	76.1	76.1											
13C-PCB-54	2.71e+07	0.82	y	0.85	27:57	0.761	0.758-0.766	74.9	74.9											
13C-PCB-70	3.52e+07	0.81	y	0.94	35:29	0.966	0.961-0.971	87.4	87.4											
13C-PCB-77	3.60e+07	0.81	y	0.89	39:36	1.079	1.073-1.083	94.5	94.5											
13C-PCB-80	3.59e+07	0.81	y	0.96	35:54	0.978	0.972-0.982	87.5	87.5											
13C-PCB-81	3.33e+07	0.81	y	0.84	39:00	1.062	1.057-1.067	93.2	93.2											
13C-PCB-95	1.49e+07	1.62	y	0.74	35:47	0.913	0.908-0.918	81.7	81.7	RS										
13C-PCB-97	1.55e+07	1.63	y	0.69	38:46	0.989	0.984-0.994	91.9	91.9											
13C-PCB-101	1.67e+07	1.64	y	0.79	37:28	0.956	0.951-0.961	86.8	86.8											
13C-PCB-104	1.82e+07	1.65	y	1.00	32:38	0.832	0.829-0.837	74.5	74.5											
13C-PCB-105	3.35e+07	1.68	y	1.24	43:01	0.929	0.924-0.934	106	106											
13C-PCB-114	3.12e+07	1.65	y	1.21	42:10	0.910	0.905-0.915	101	101											
13C-PCB-118	2.25e+07	1.60	y	0.98	41:30	1.059	1.054-1.064	93.2	93.2											
13C-PCB-123	2.11e+07	1.57	y	0.95	41:19	1.054	1.049-1.059	90.5	90.5											
13C-PCB-126	3.29e+07	1.64	y	1.16	45:16	0.977	0.972-0.982	111	111											
13C-PCB-127	3.65e+07	1.65	y	1.34	43:21	0.936	0.931-0.941	106	106											
13C-PCB-138	2.51e+07	1.30	y	1.04	44:45	0.966	0.961-0.971	94.1	94.1											
13C-PCB-141	2.52e+07	1.31	y	1.07	43:55	0.948	0.943-0.953	91.8	91.8											
13C-PCB-153	2.57e+07	1.33	y	1.11	43:11	0.932	0.927-0.937	90.3	90.3											
13C-PCB-155	1.46e+07	1.35	y	0.83	37:00	0.944	0.939-0.949	71.3	71.3											
13C-PCB-156	3.07e+07	1.27	y	1.24	48:01	1.037	1.032-1.042	96.4	96.4											
13C-PCB-157	3.20e+07	1.30	y	1.31	48:17	1.042	1.037-1.047	95.5	95.5											
13C-PCB-159	2.96e+07	1.30	y	1.20	46:03	0.994	0.989-0.999	96.5	96.5											
13C-PCB-167	3.21e+07	1.30	y	1.32	46:44	1.009	1.004-1.014	95.1	95.1											
13C-PCB-169	2.88e+07	1.32	y	1.22	50:27	1.089	1.082-1.092	92.5	92.5											
13C-PCB-170	1.19e+07	0.46	y	0.54	50:49	1.097	1.089-1.101	86.9	86.9											
13C-PCB-180	1.48e+07	0.48	y	0.67	49:17	1.064	1.059-1.069	85.8	85.8											
13C-PCB-188	1.79e+07	0.47	y	0.94	42:48	0.924	0.919-0.929	74.6	74.6											
13C-PCB-189	1.58e+07	0.45	y	0.72	52:20	1.130	1.120-1.132	86.2	86.2											
13C-PCB-194	2.38e+07	0.96	y	0.81	53:51	0.995	0.990-1.000	92.1	92.1											
13C-PCB-202	1.52e+07	0.92	y	0.83	48:14	1.041	1.036-1.046	71.5	71.5											
13C-PCB-206	1.73e+07	0.79	y	0.66	55:29	1.025	1.021-1.031	82.2	82.2											
13C-PCB-208	2.51e+07	0.76	y	1.12	53:07	0.981	0.976-0.986	70.1	70.1											
13C-PCB-209	1.70e+07	1.22	y	0.61	56:51	1.050	1.044-1.054	86.9	86.9											

Analyst: 
12/30/14
Date: _____

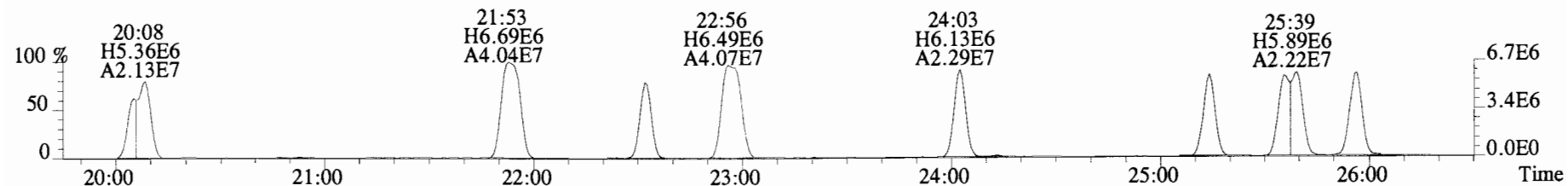
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5136.0,0.00%,F,F)



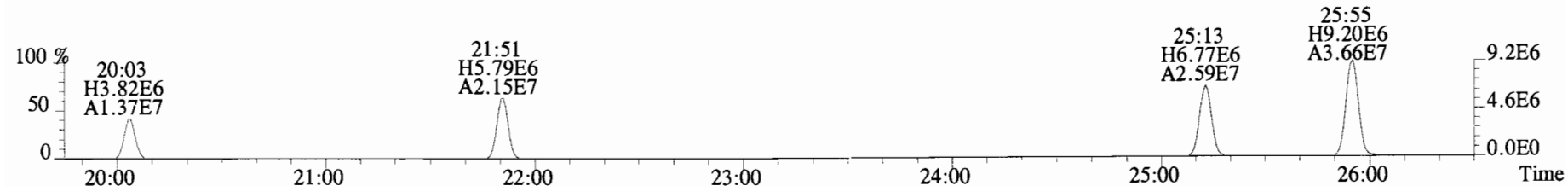
File:141226E1 #1-757 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4656.0,0.00%,F,F)



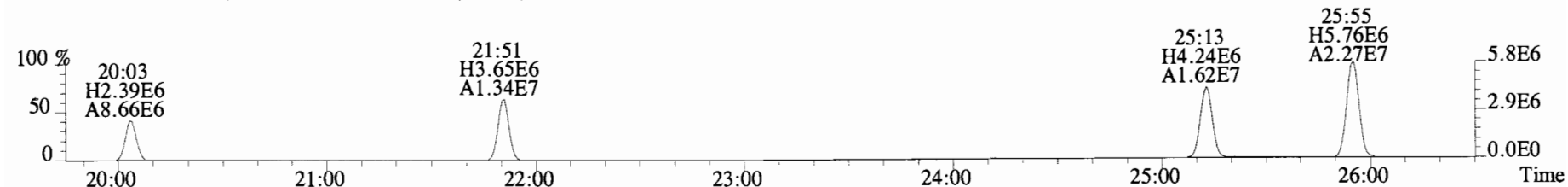
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23636.0,0.00%,F,F)



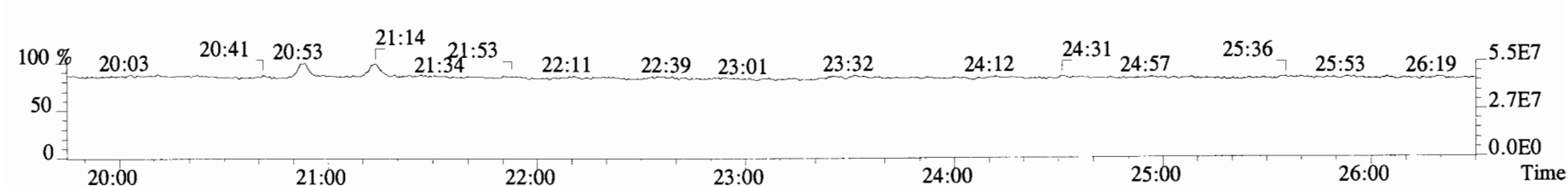
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4104.0,0.00%,F,F)



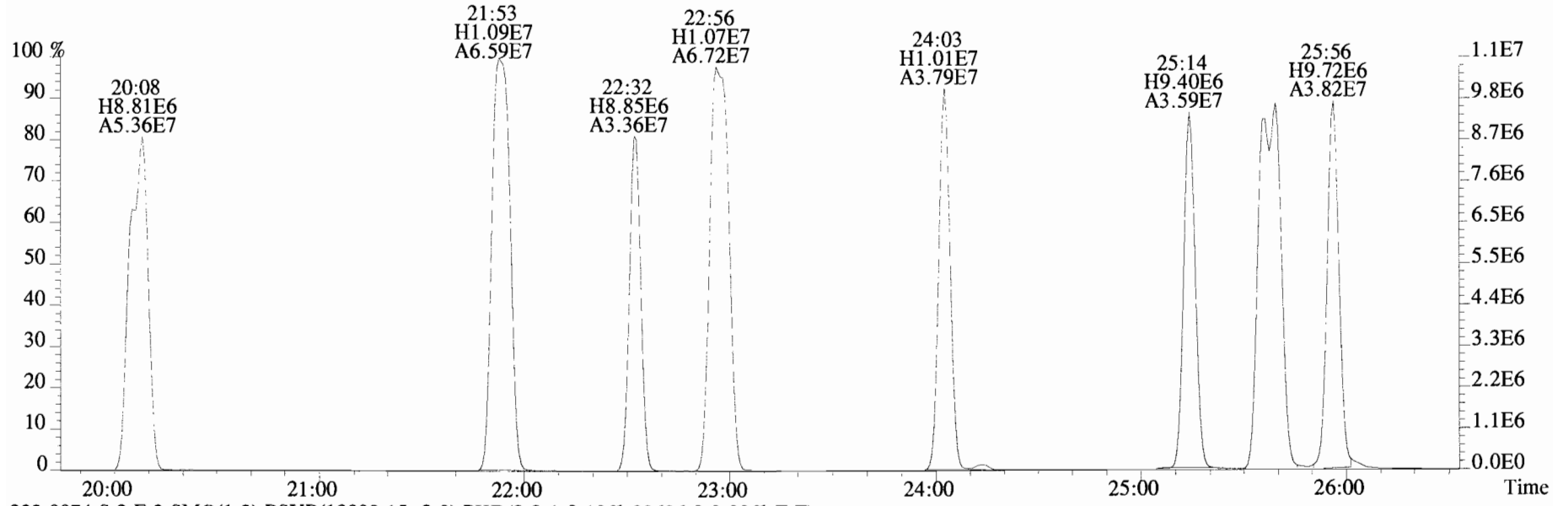
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3920.0,0.00%,F,F)



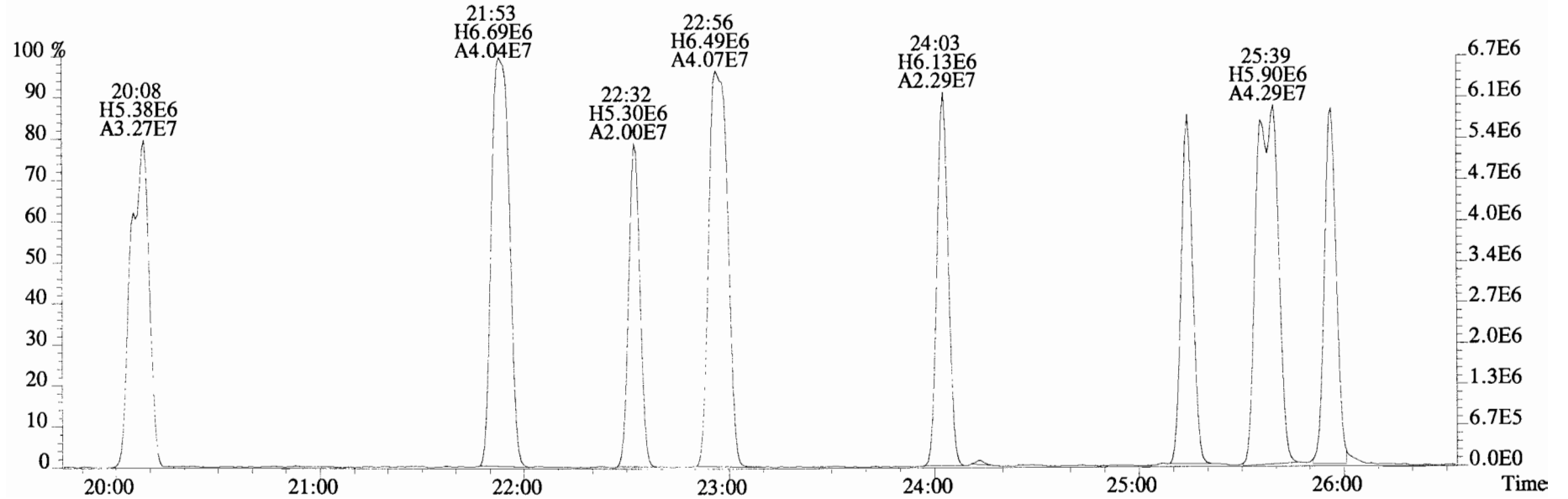
230.9856 S:2 F:2



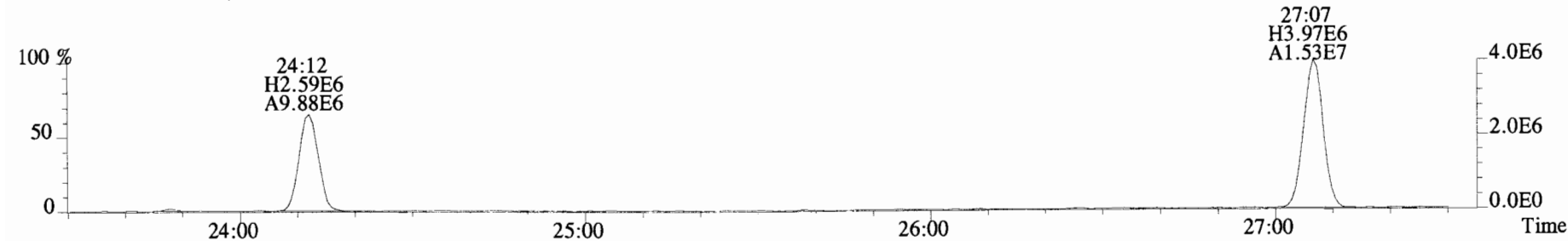
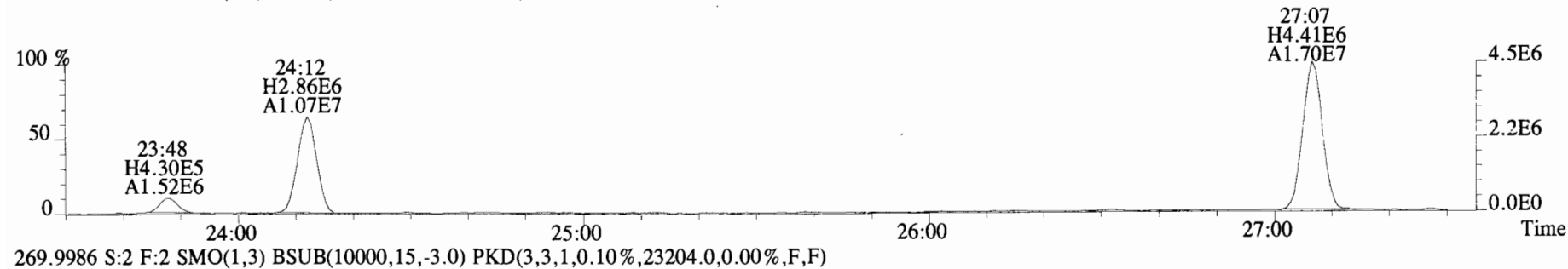
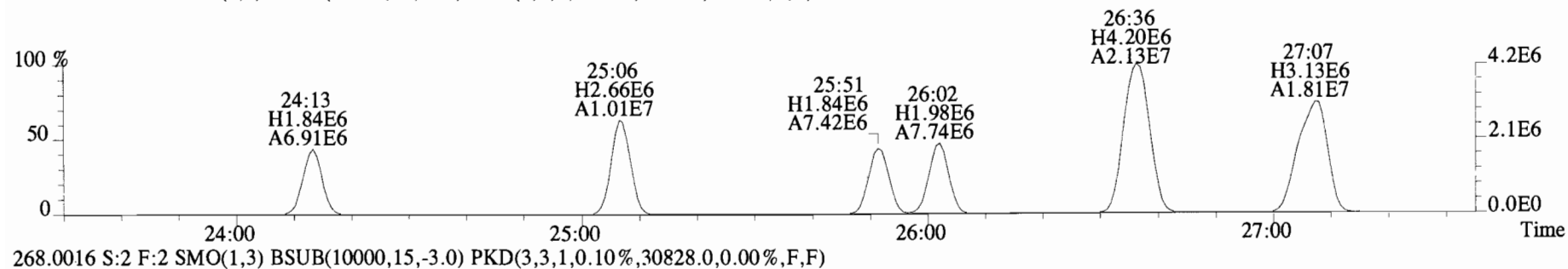
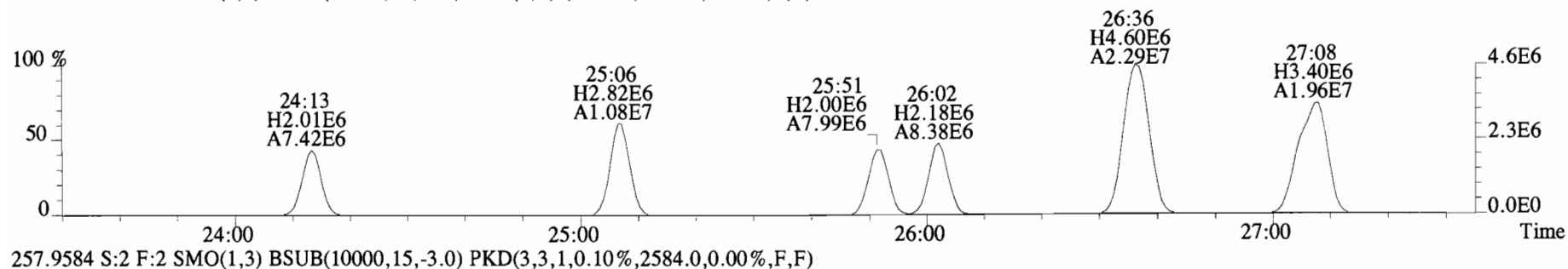
File:141226E1 #1-757 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
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222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4656.0,0.00%,F,F)



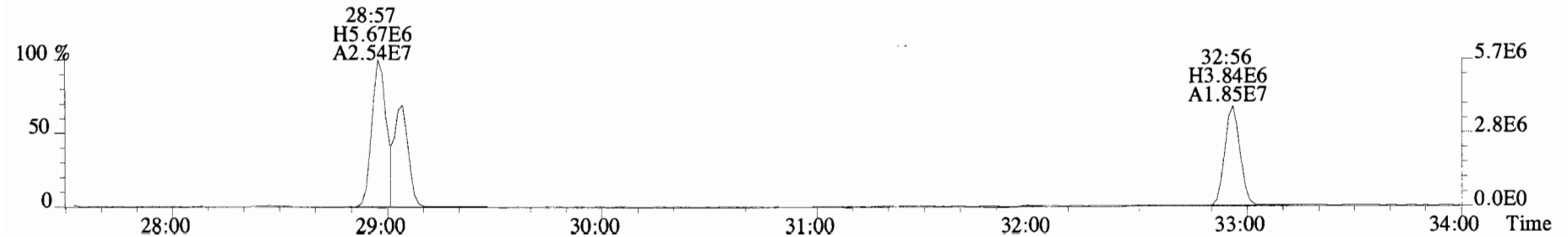
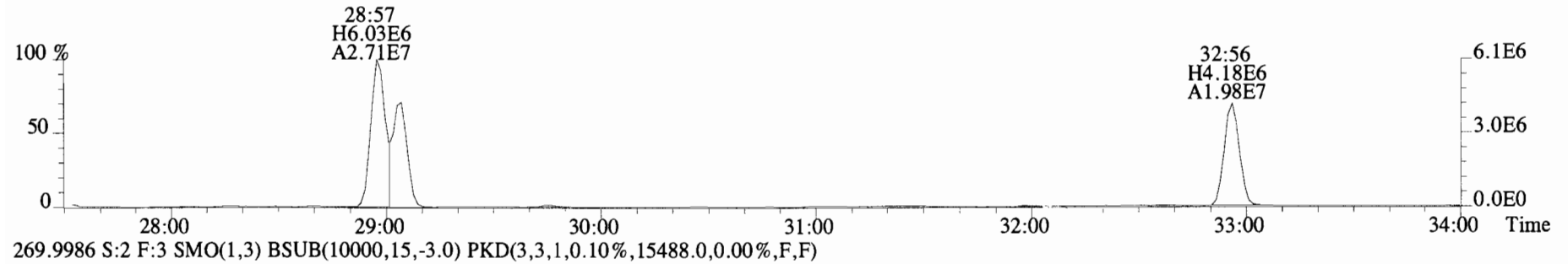
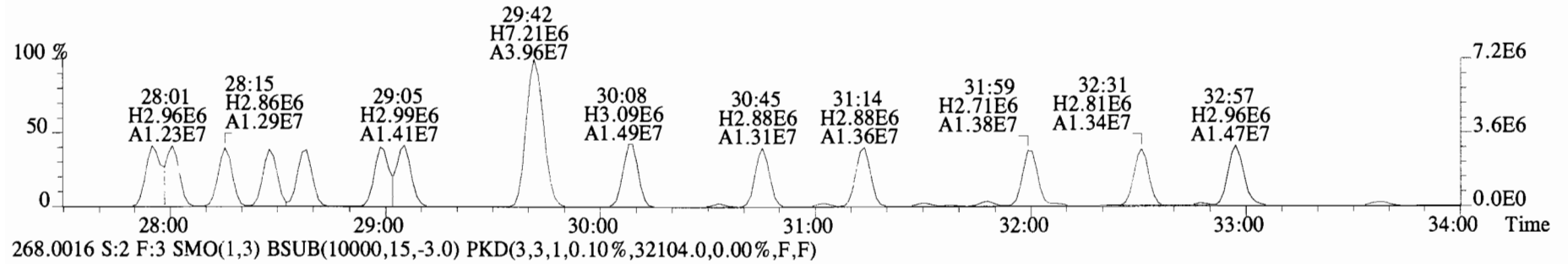
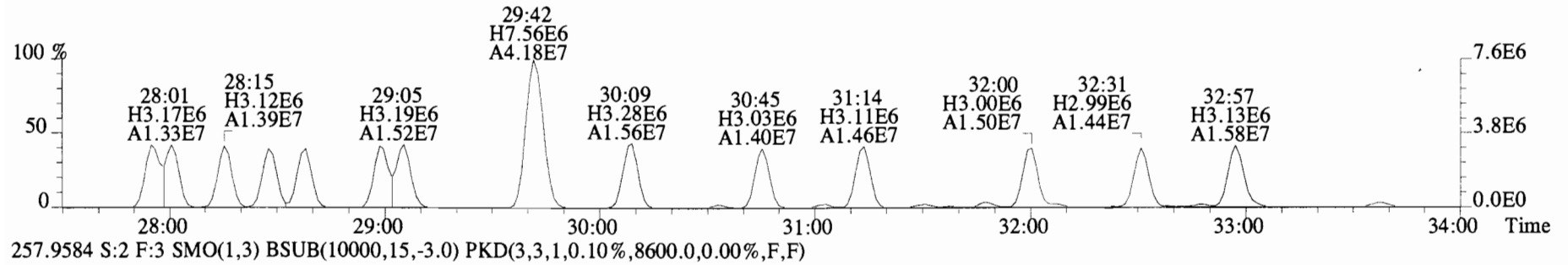
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,23636.0,0.00%,F,F)



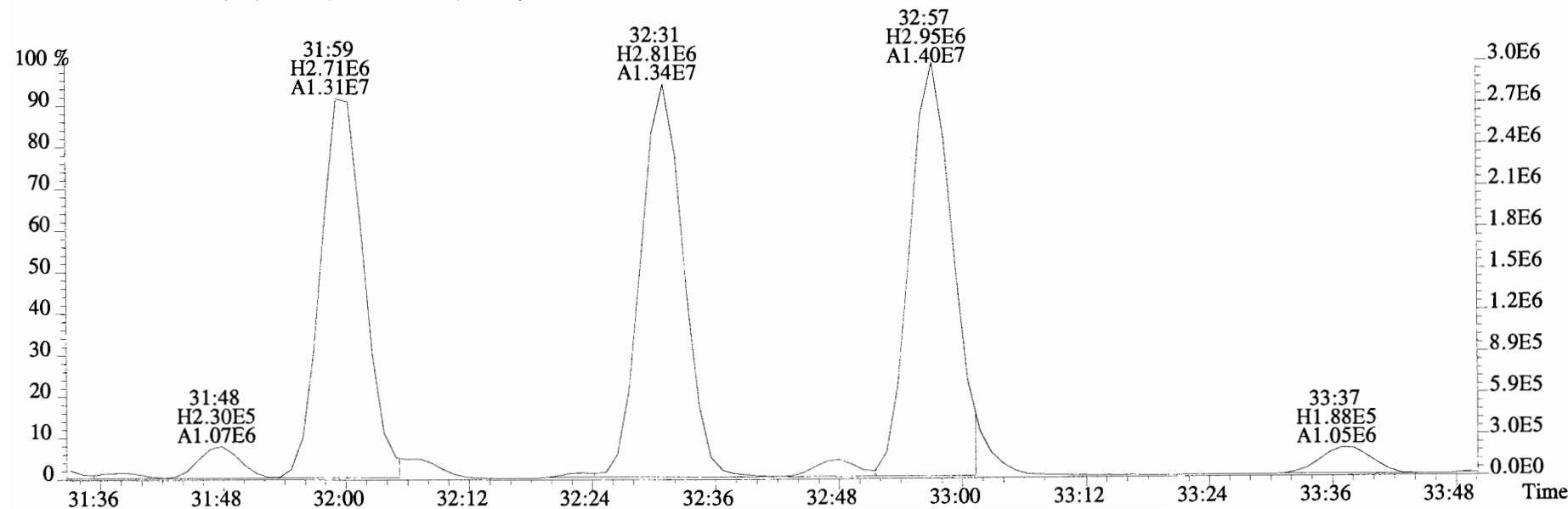
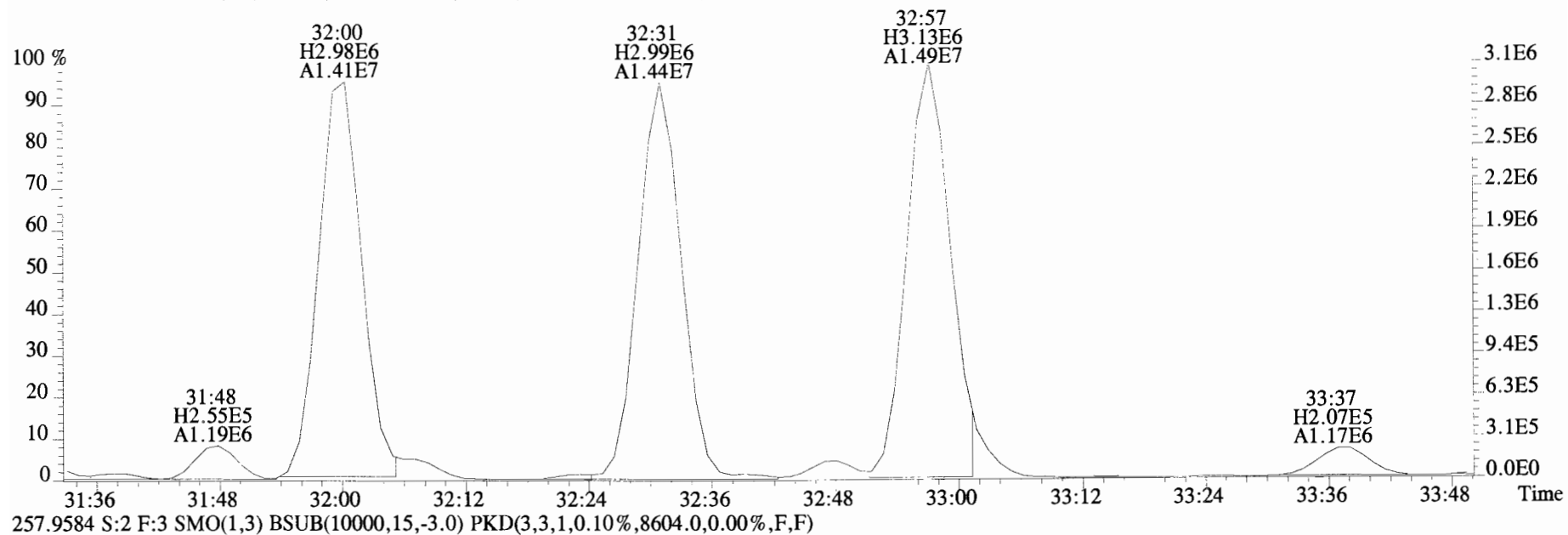
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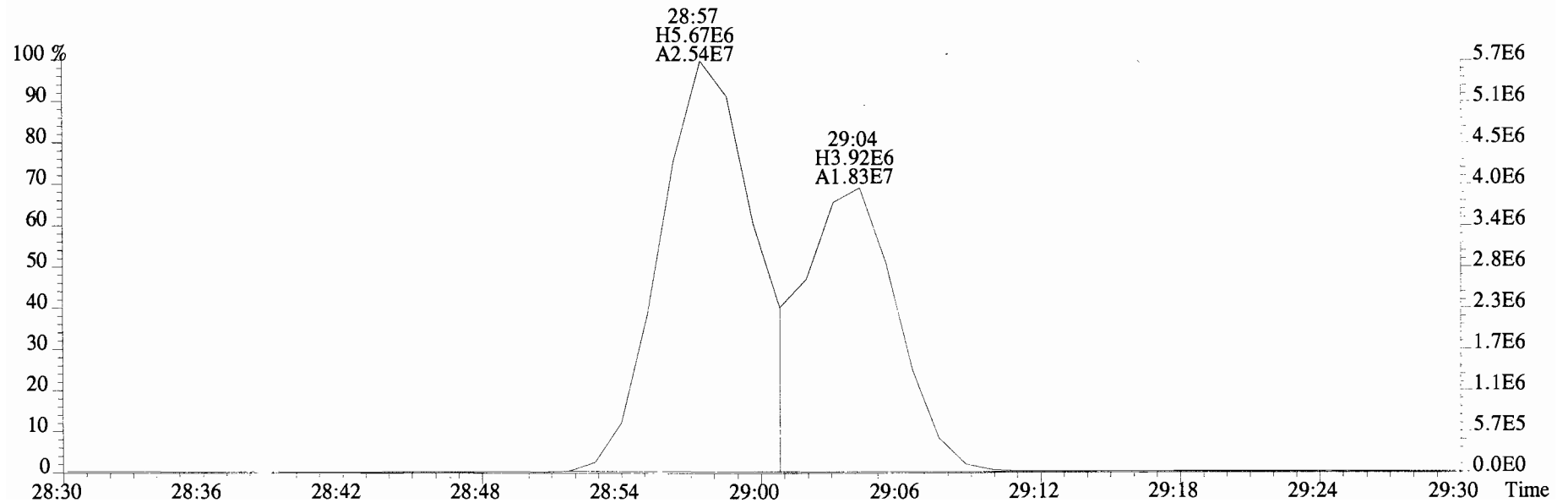
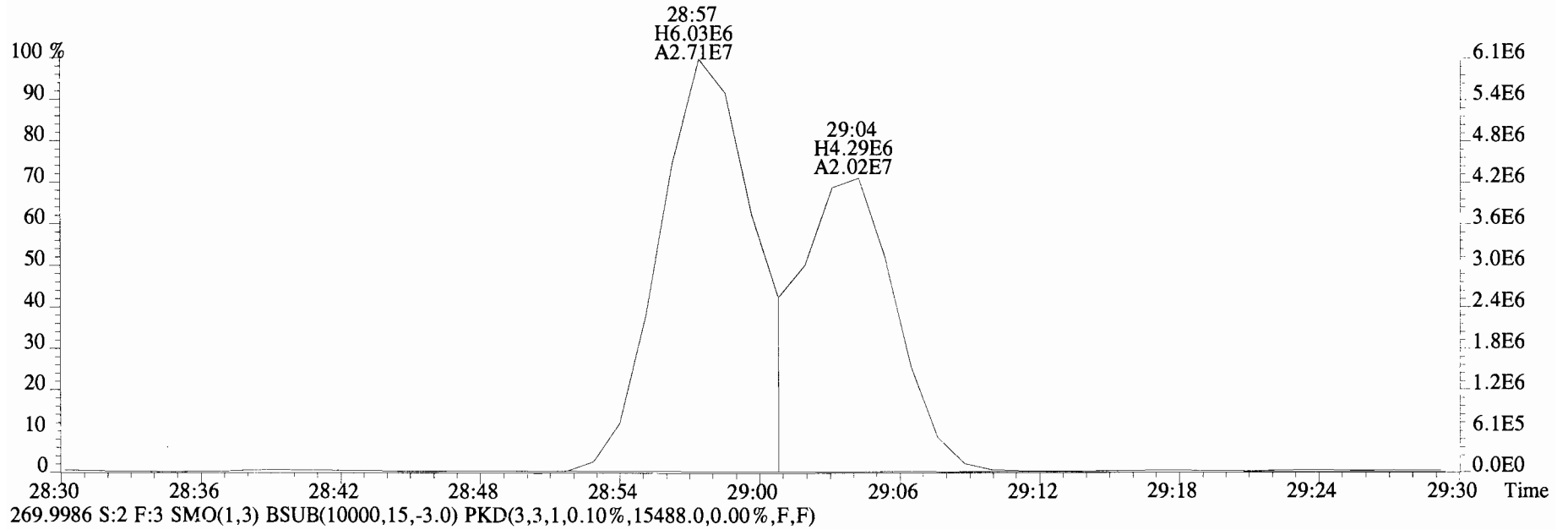
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7020.0,0.00%,F,F)



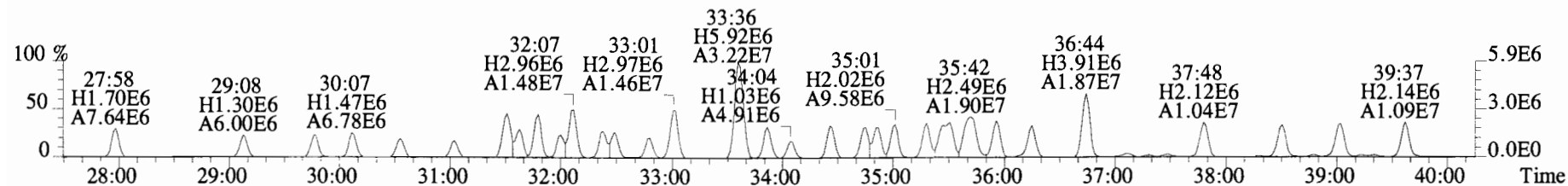
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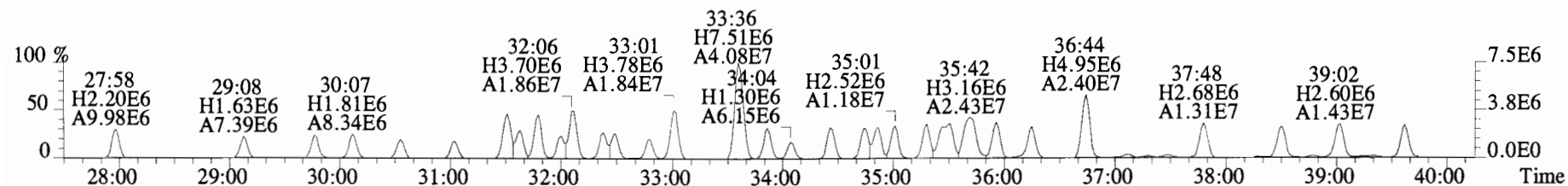
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32104.0,0.00%,F,F)



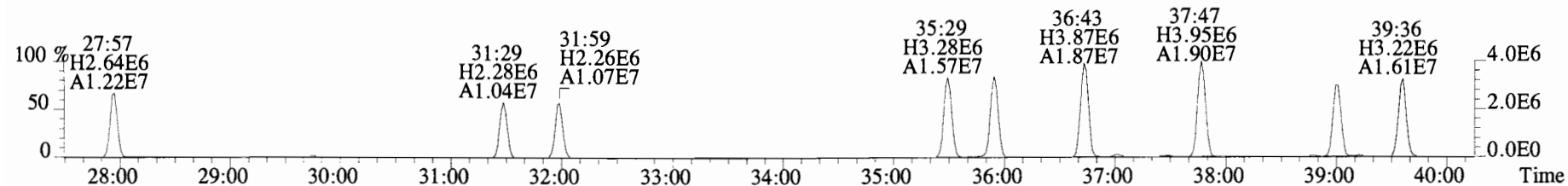
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9116.0,0.00%,F,F)



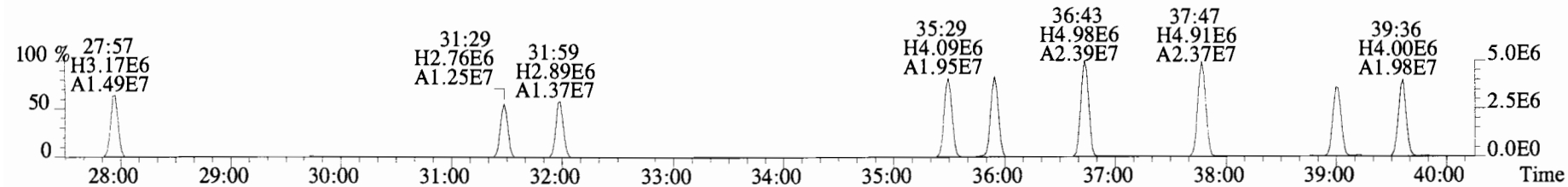
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8576.0,0.00%,F,F)



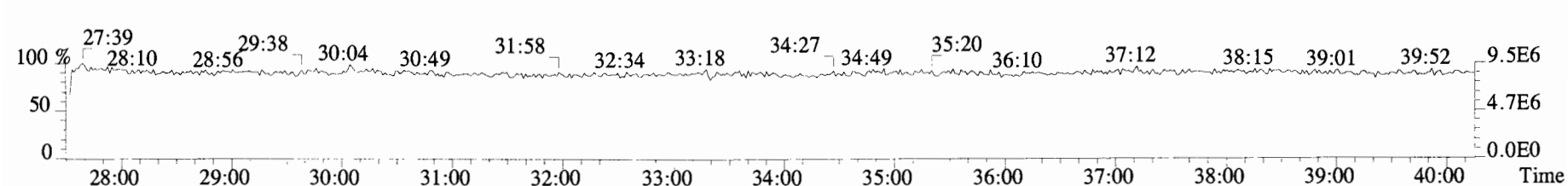
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5792.0,0.00%,F,F)



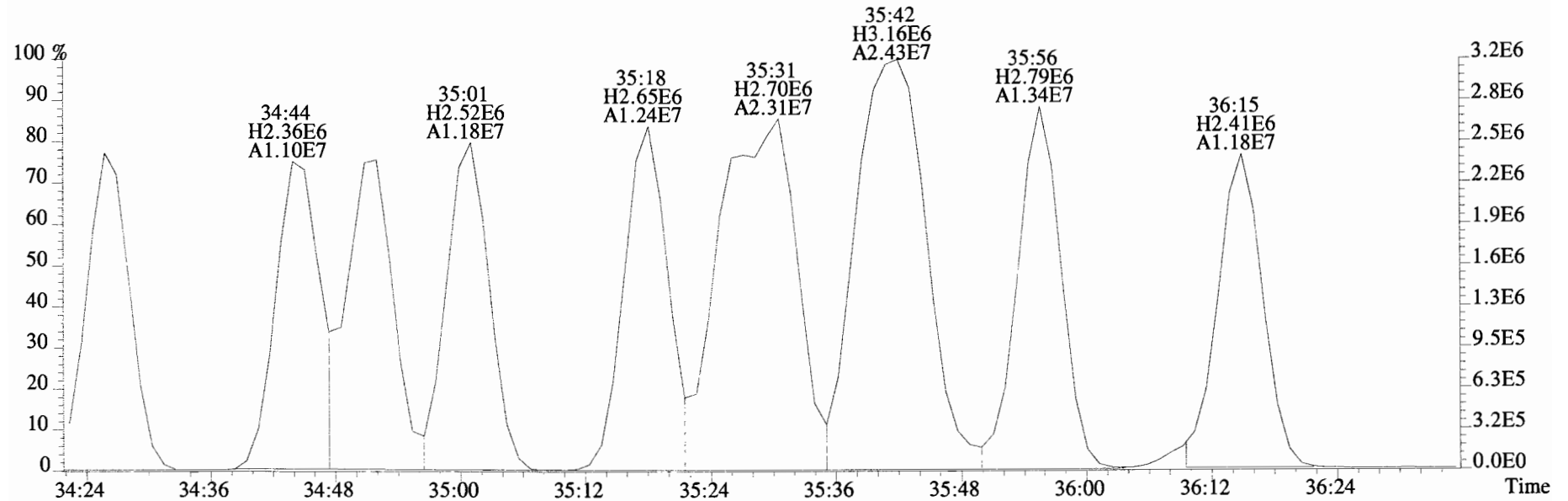
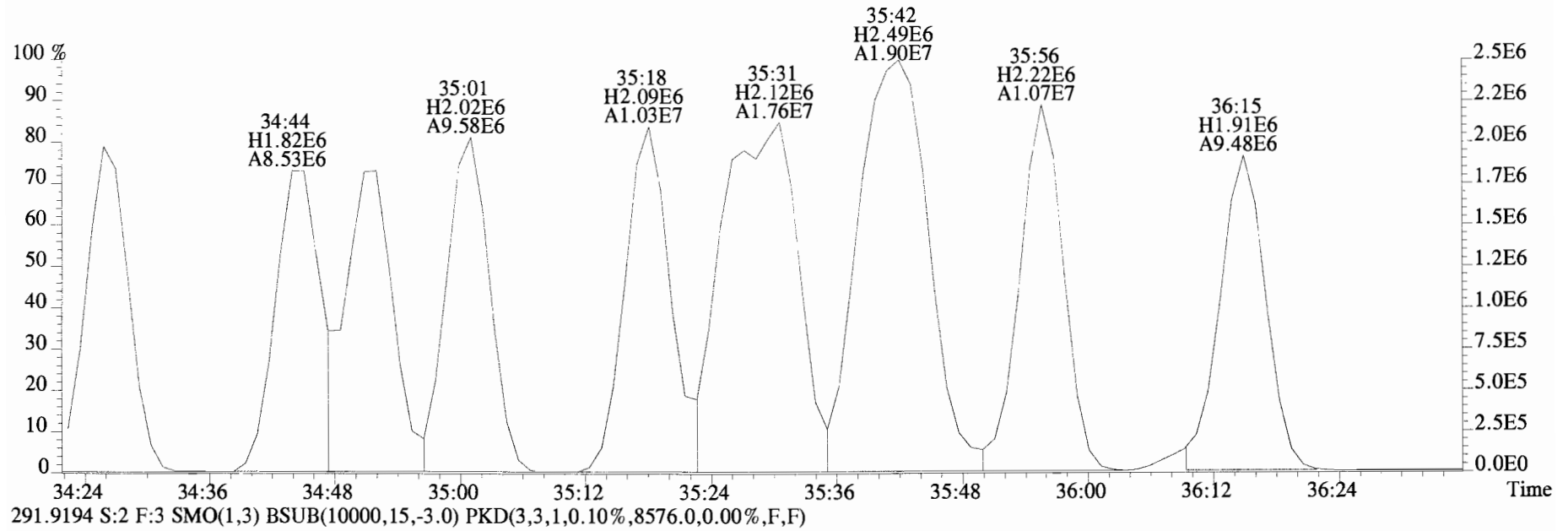
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4148.0,0.00%,F,F)



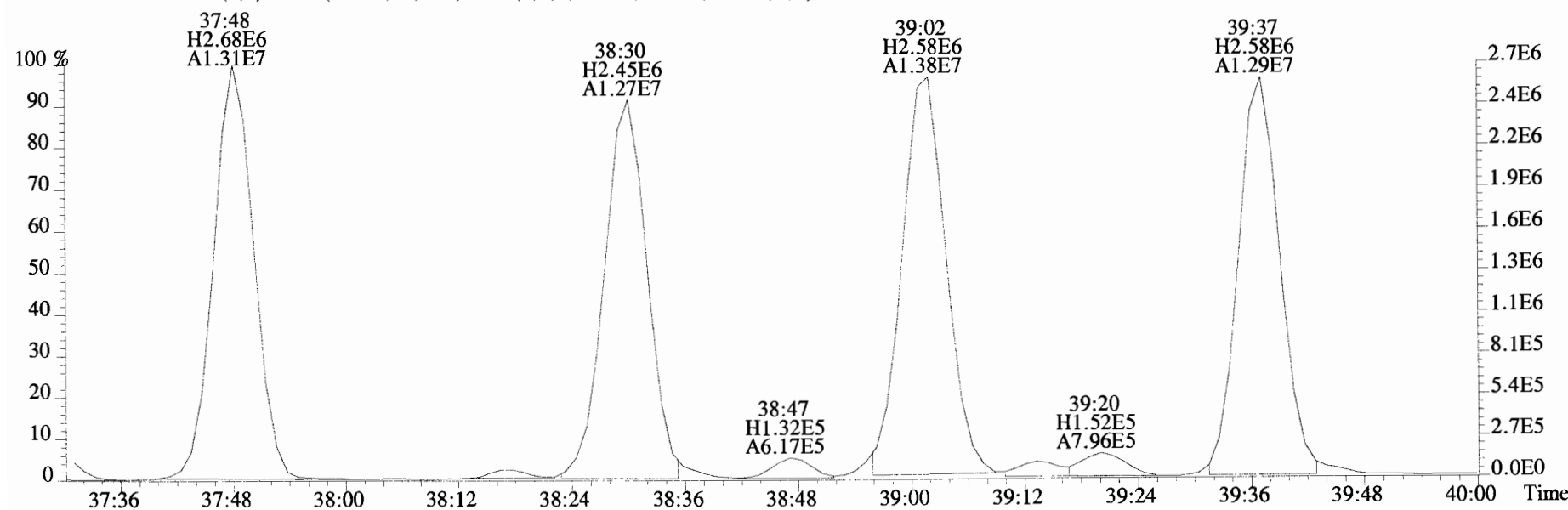
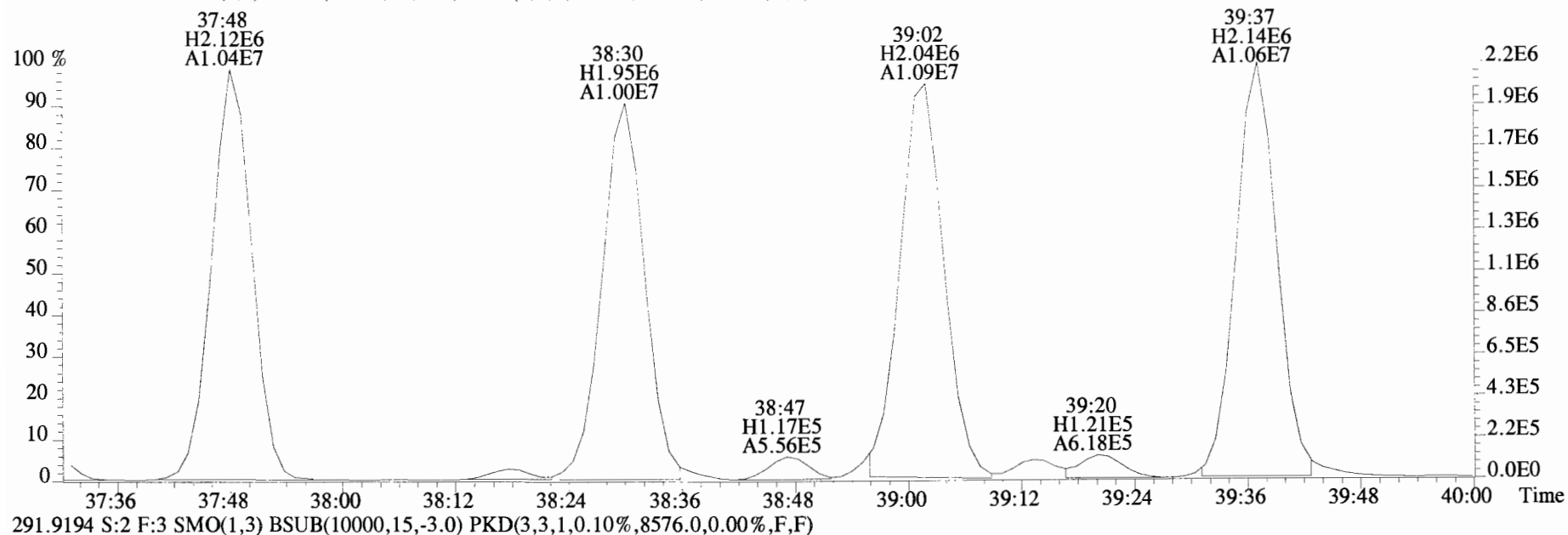
330.9792 S:2 F:3



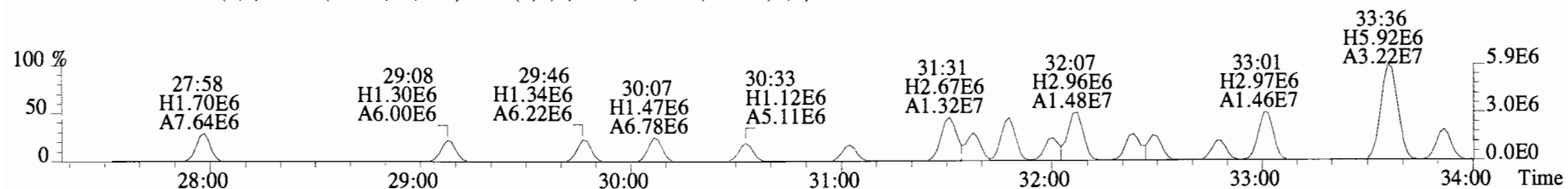
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9116.0,0.00%,F,F)



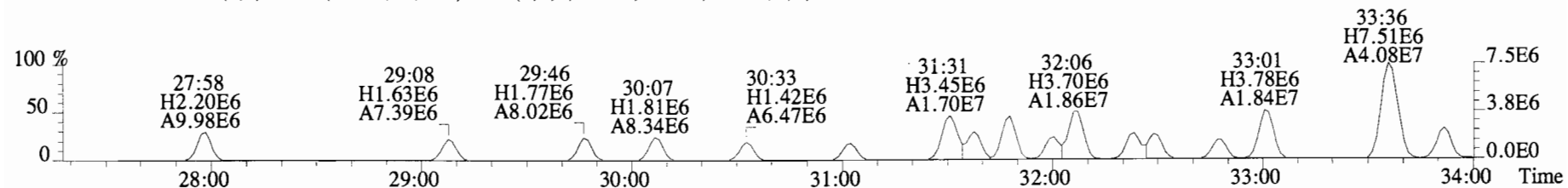
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9116.0,0.00%,F,F)



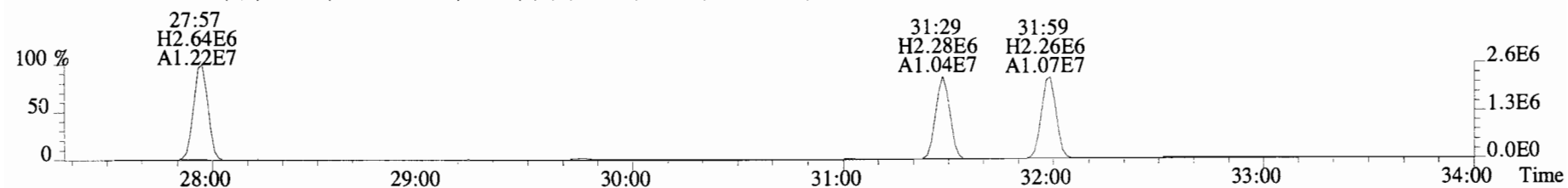
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9116.0,0.00%,F,F)



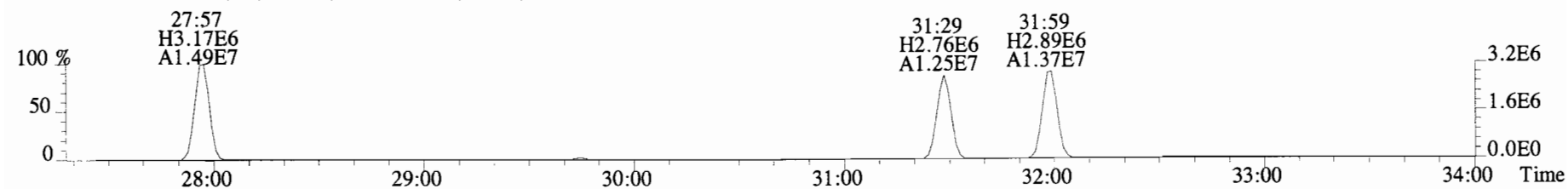
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8576.0,0.00%,F,F)



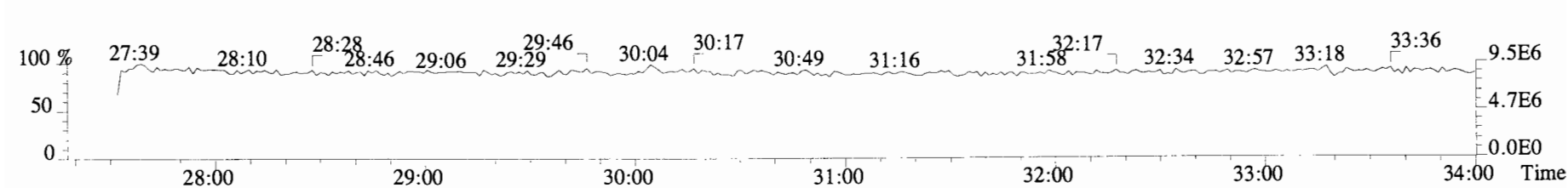
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5792.0,0.00%,F,F)



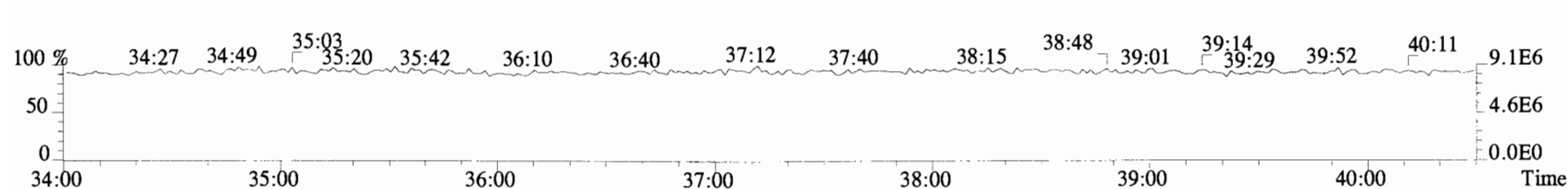
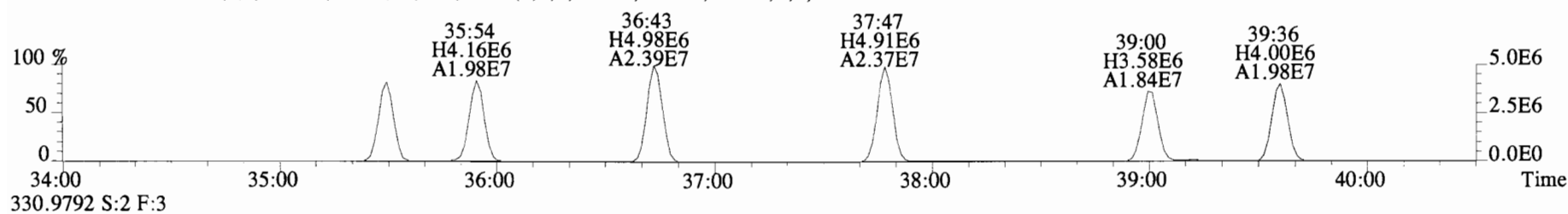
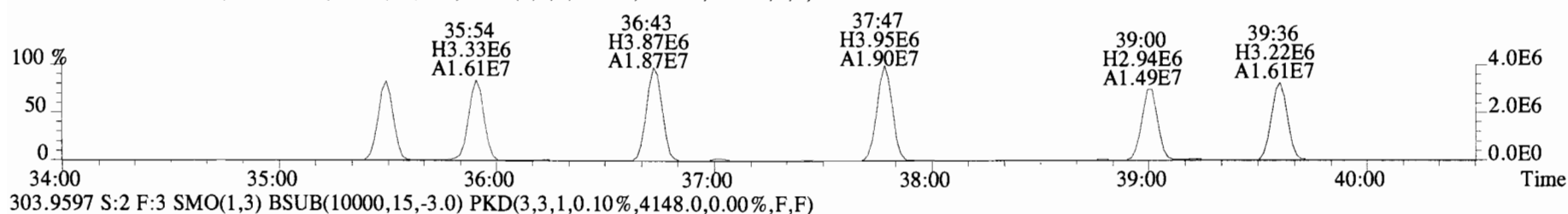
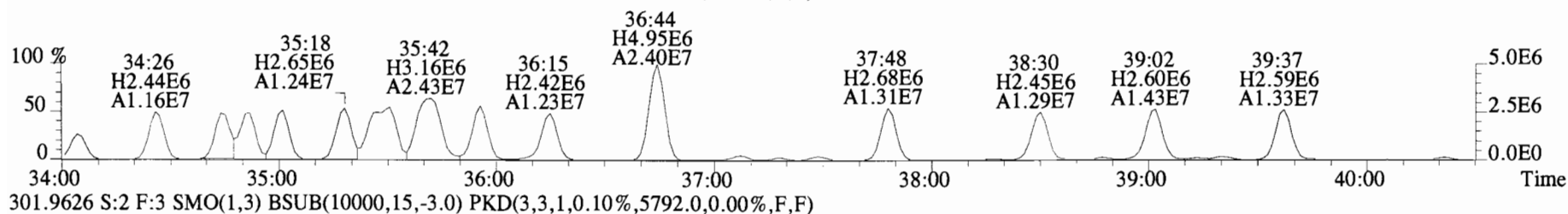
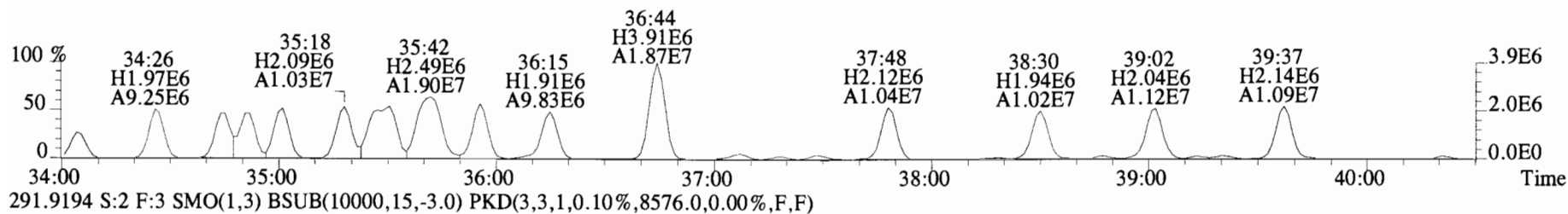
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4148.0,0.00%,F,F)



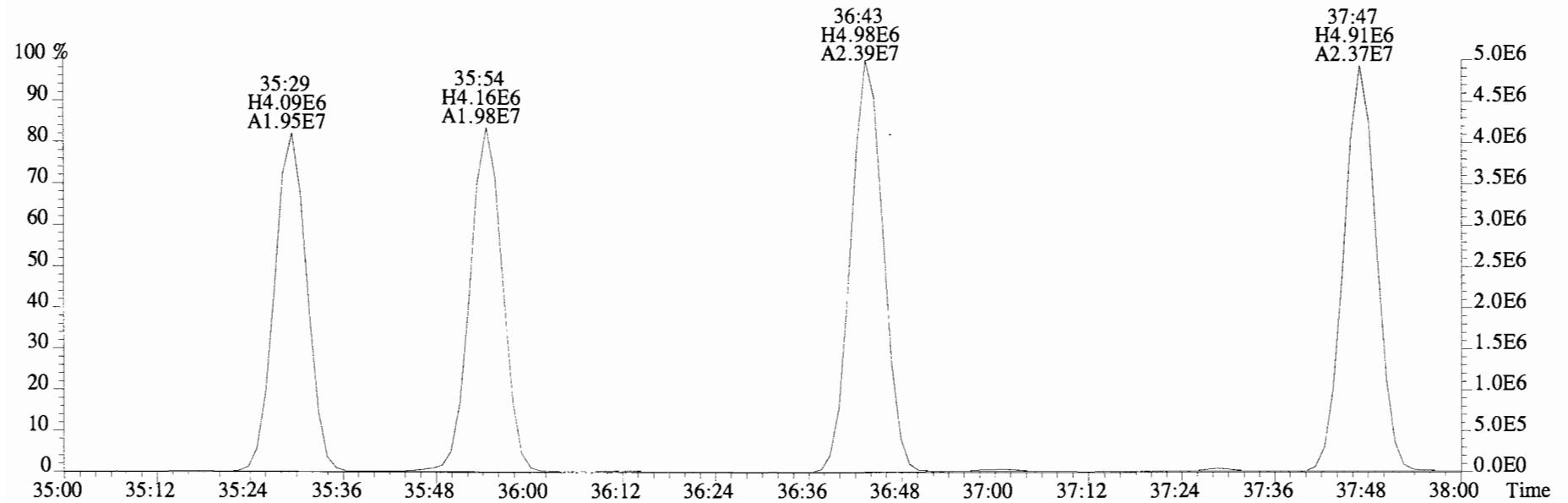
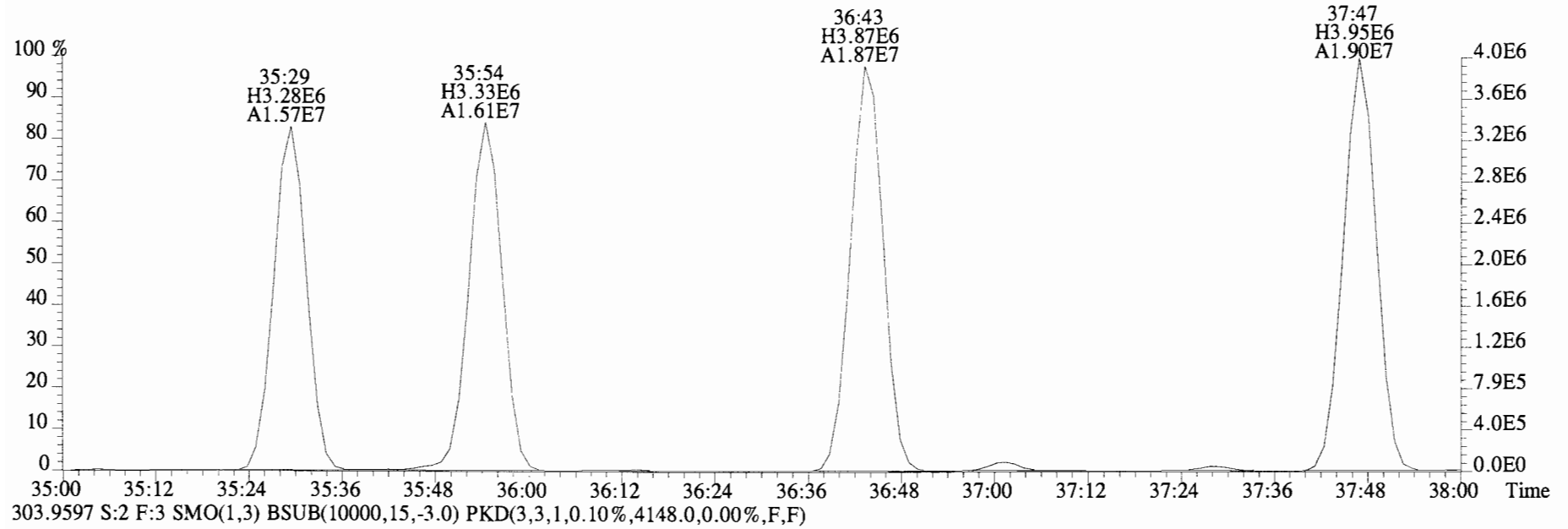
330.9792 S:2 F:3



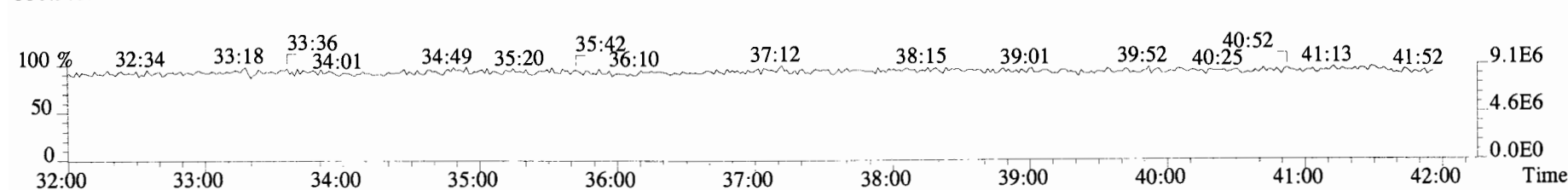
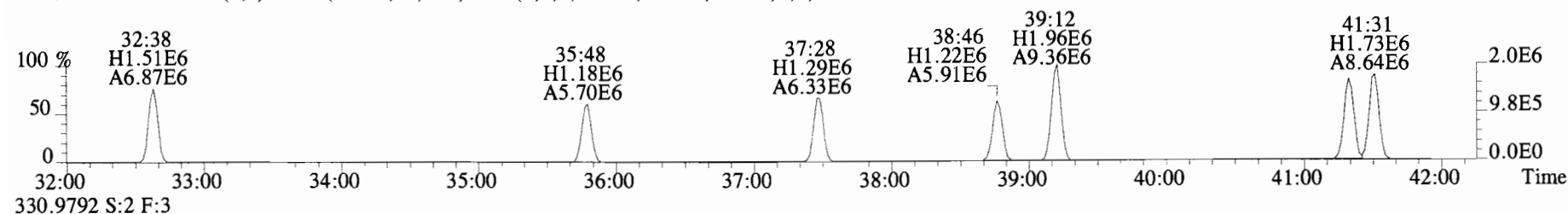
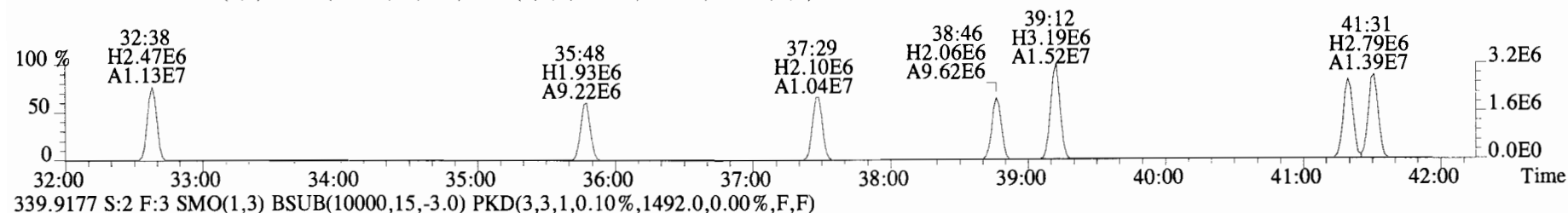
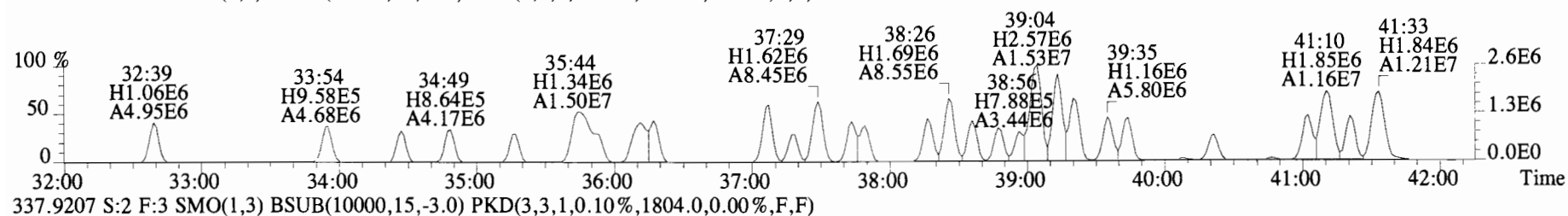
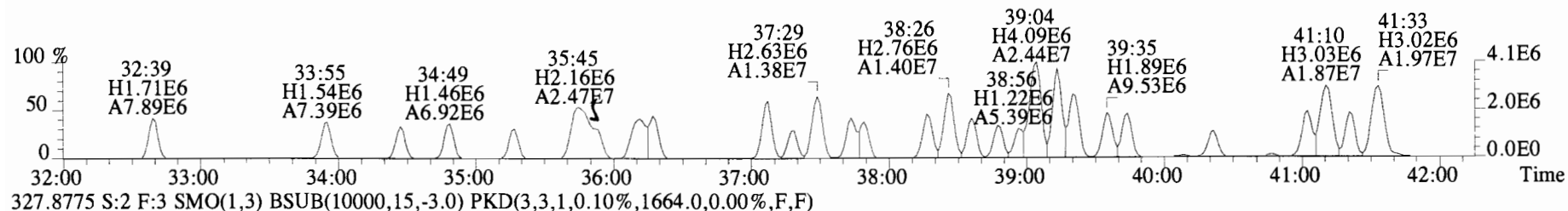
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9116.0,0.00%,F,F)



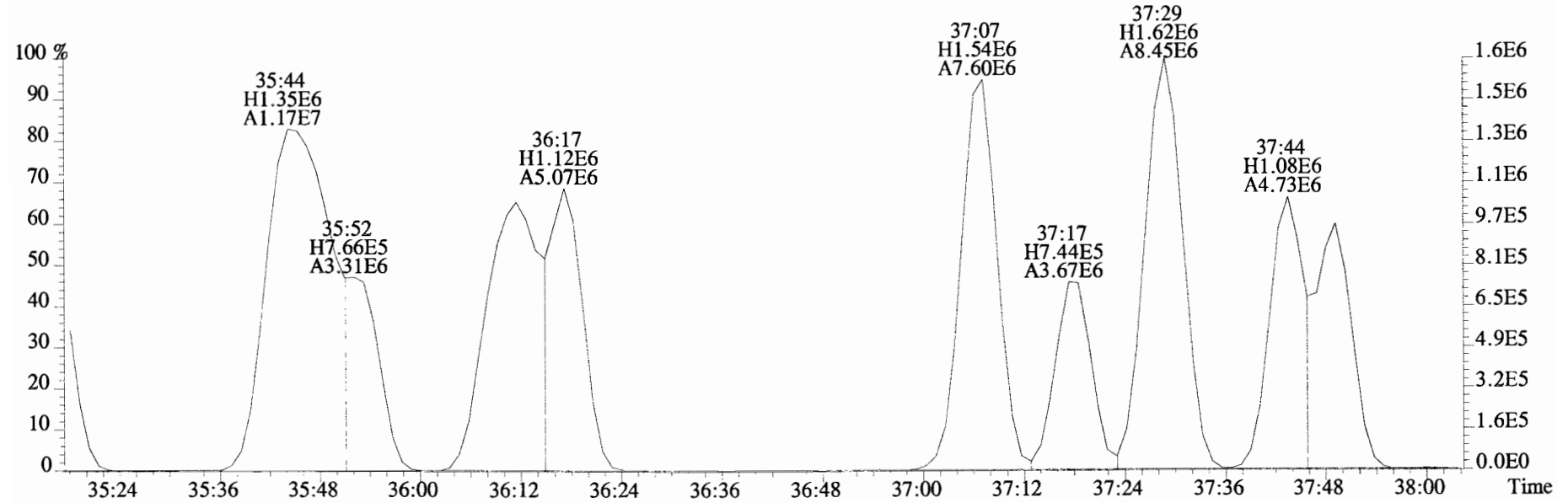
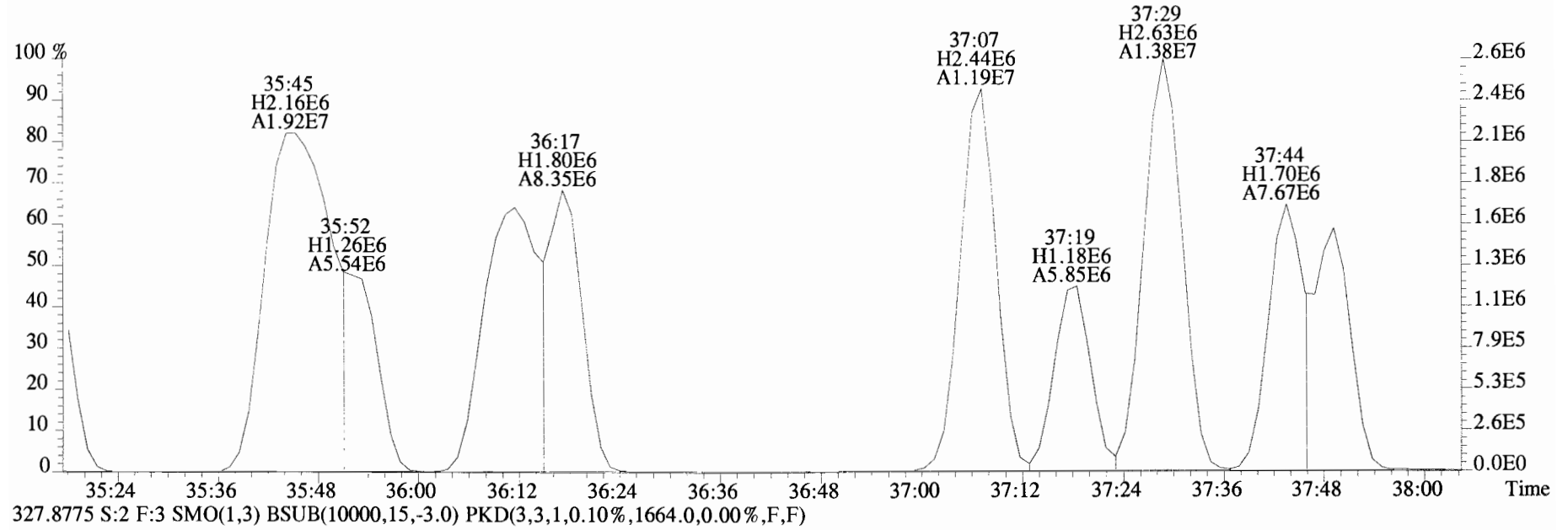
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5792.0,0.00%,F,F)



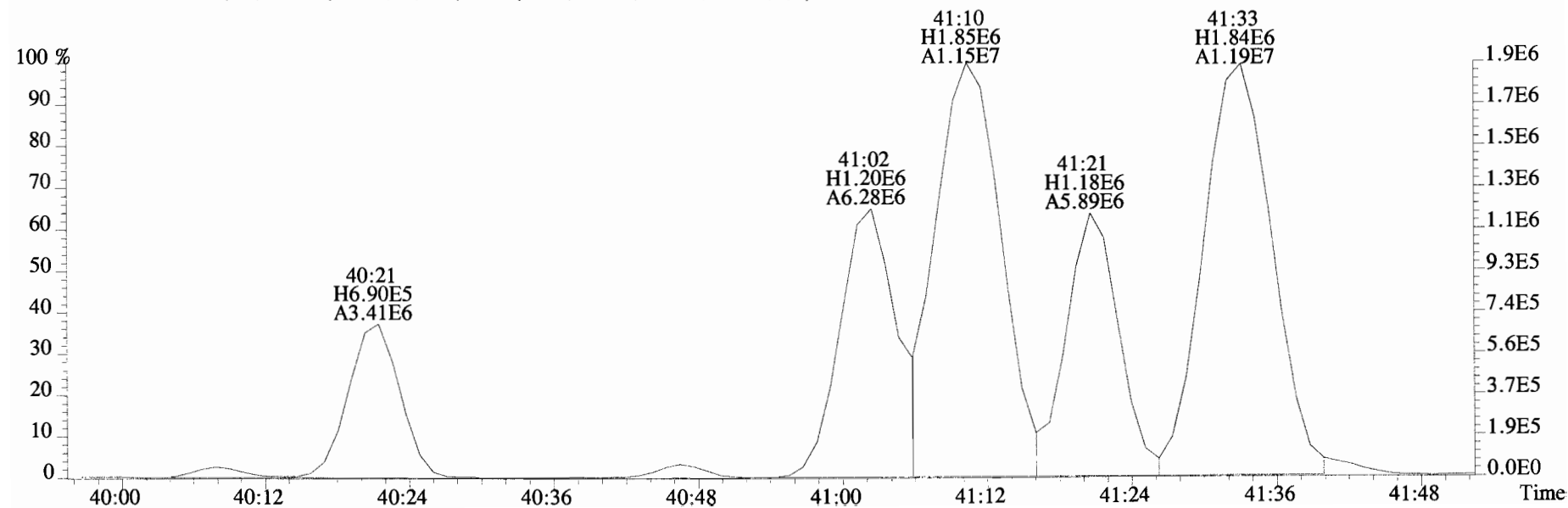
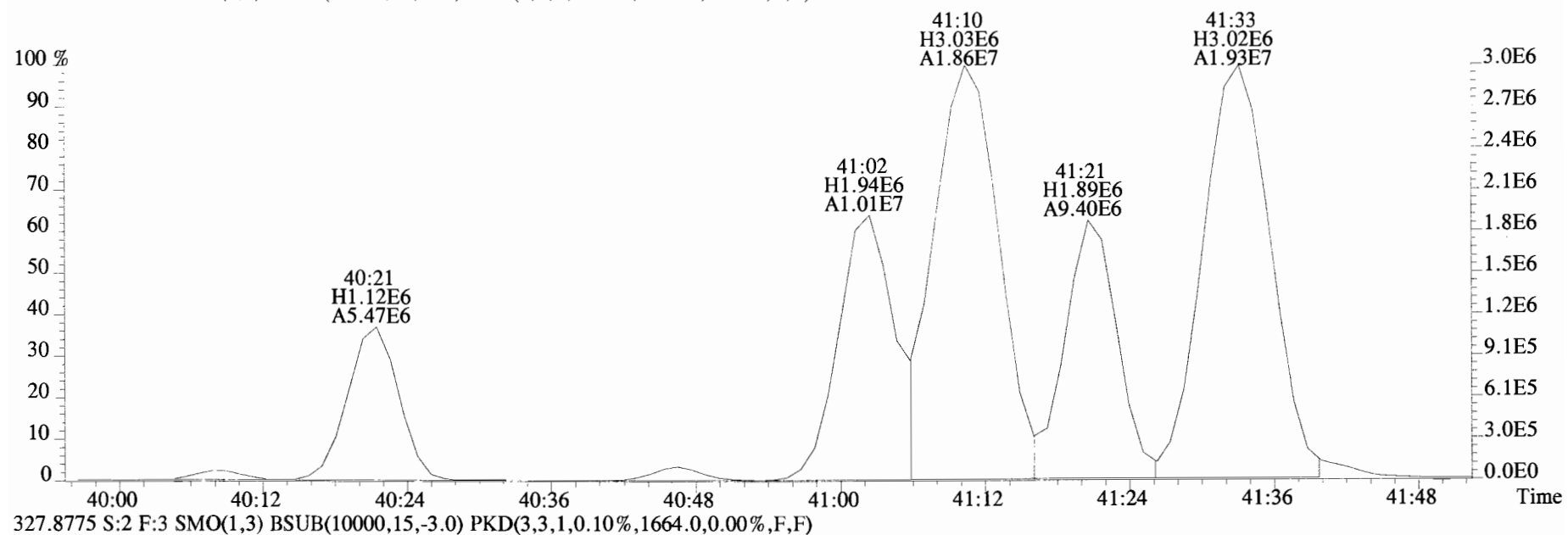
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



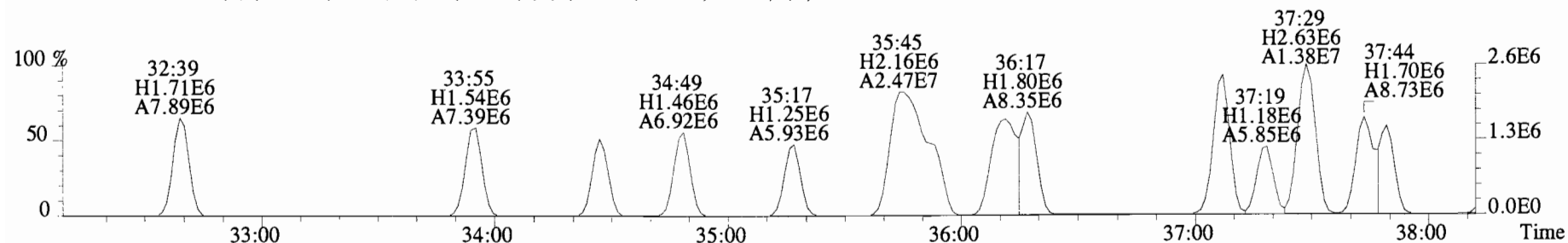
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



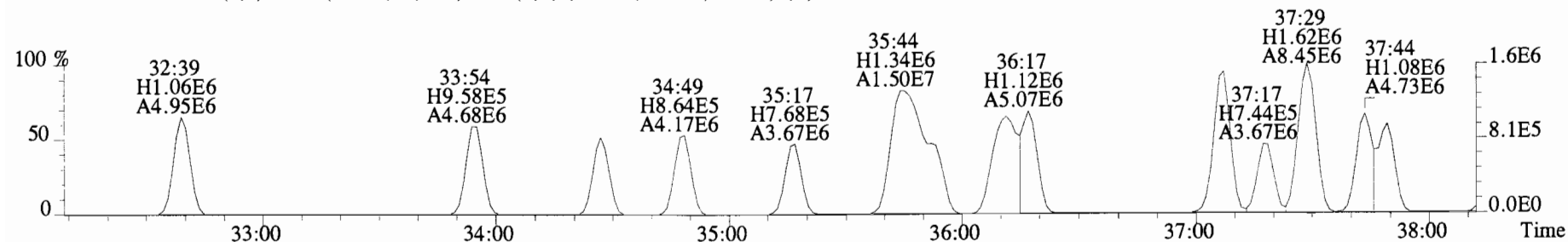
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



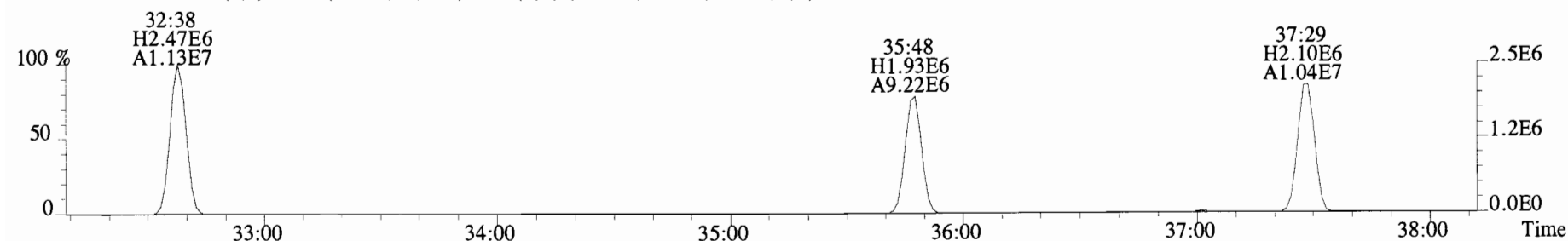
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



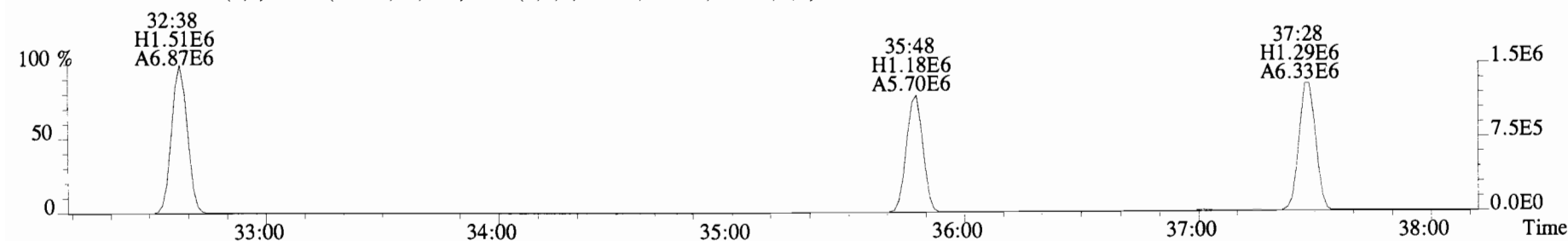
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



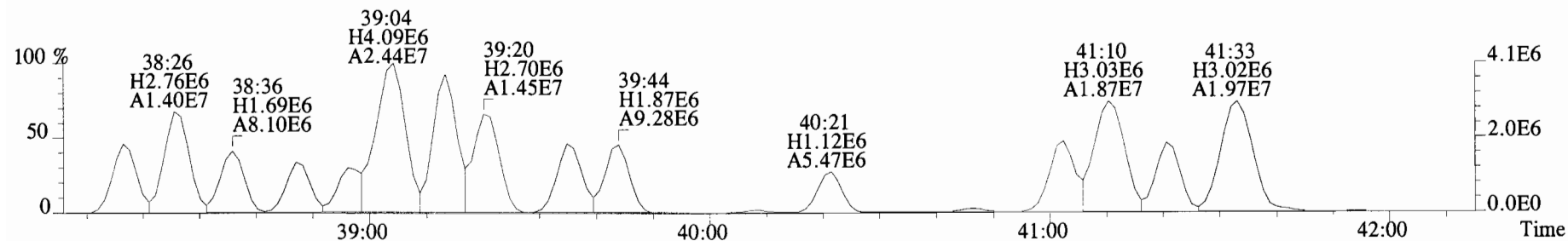
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



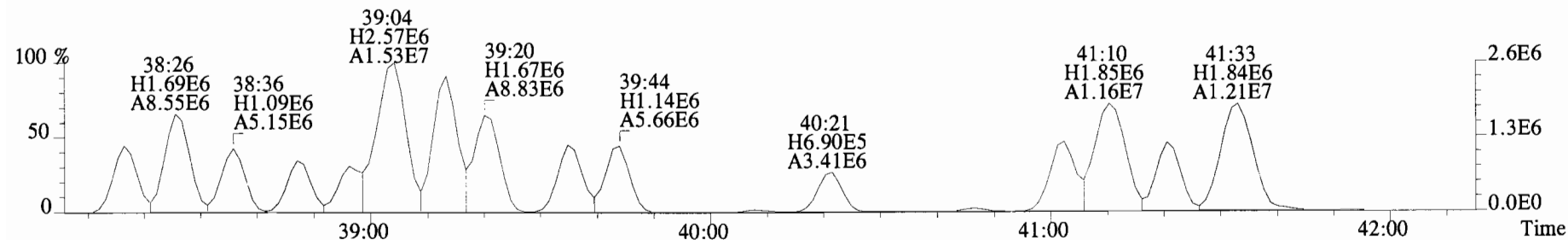
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



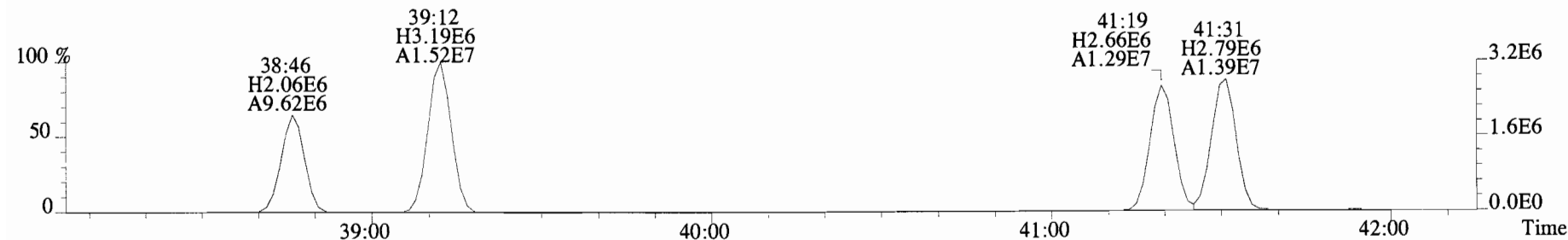
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1524.0,0.00%,F,F)



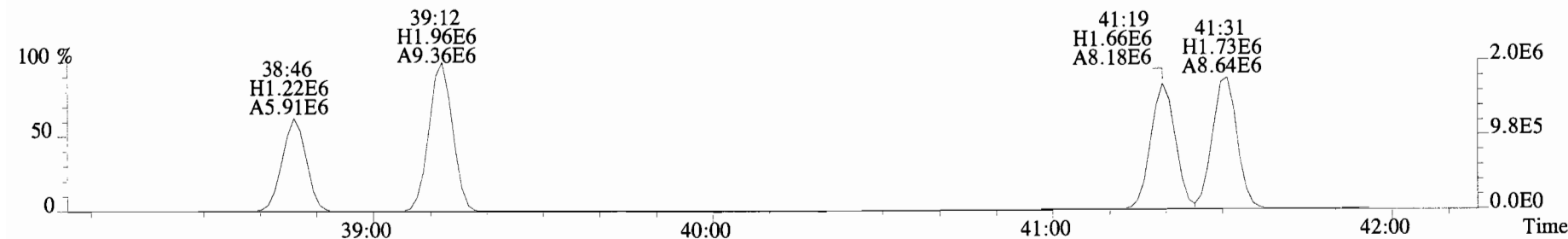
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1664.0,0.00%,F,F)



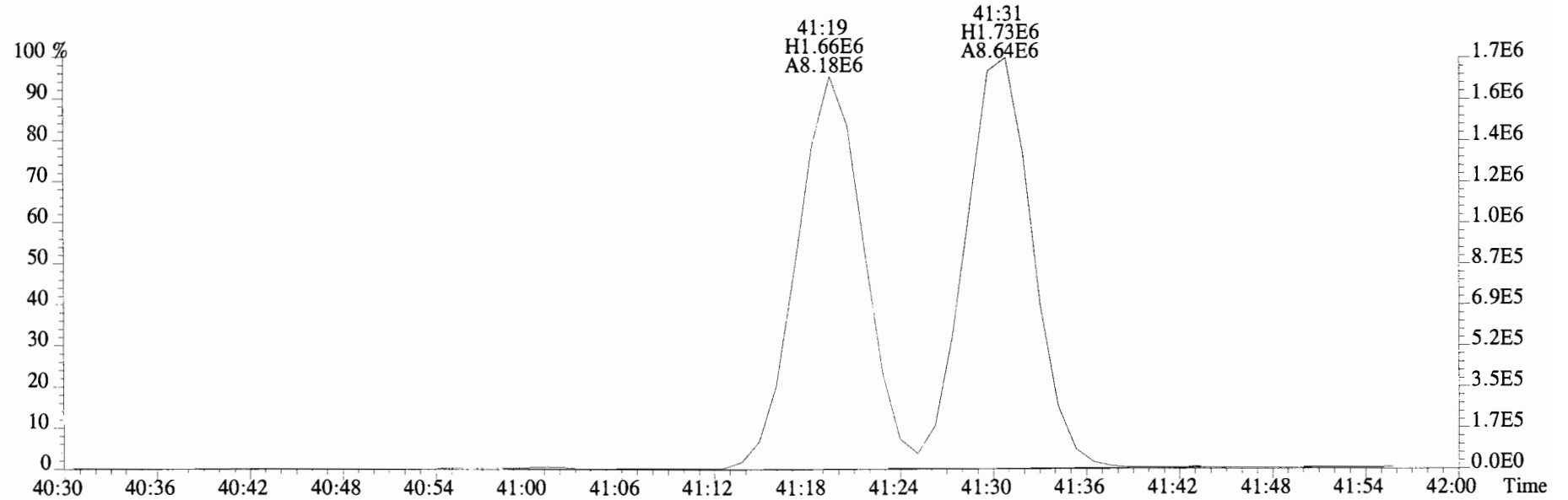
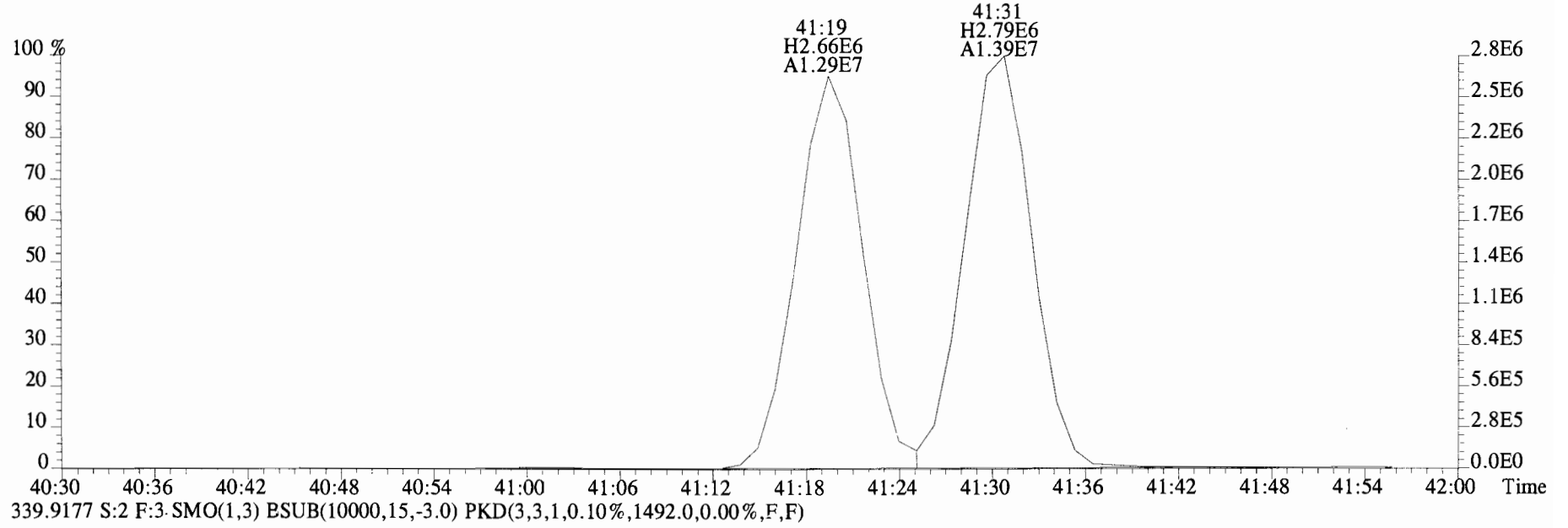
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



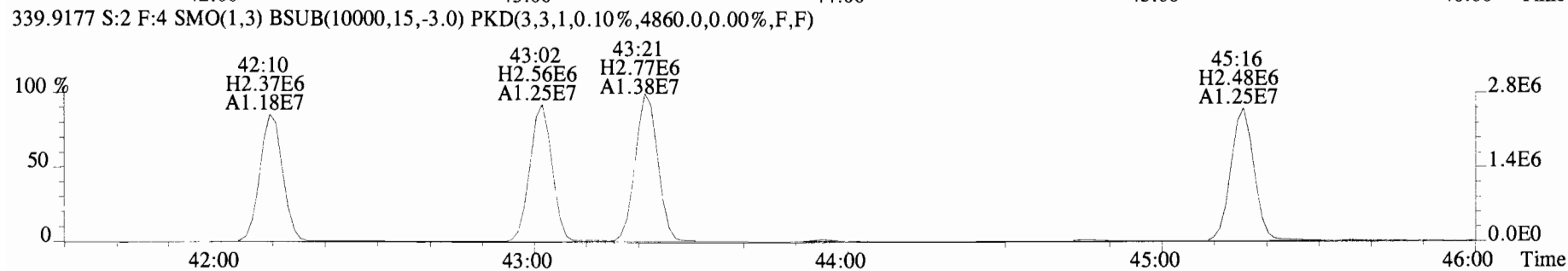
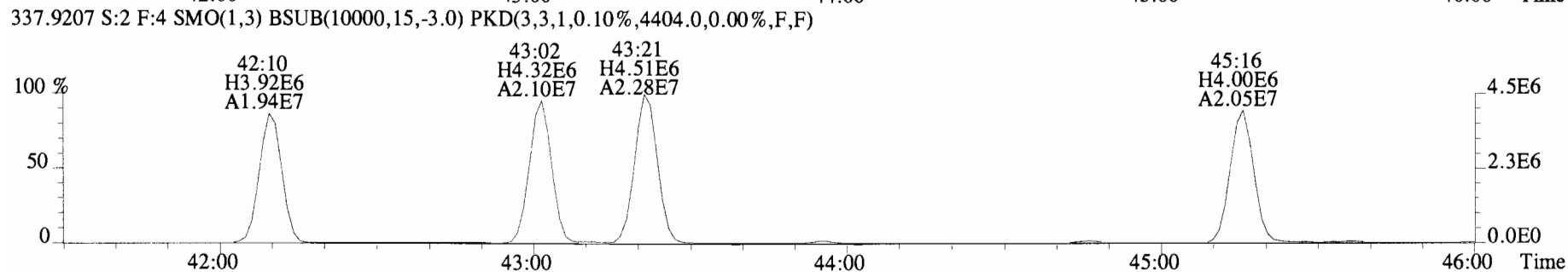
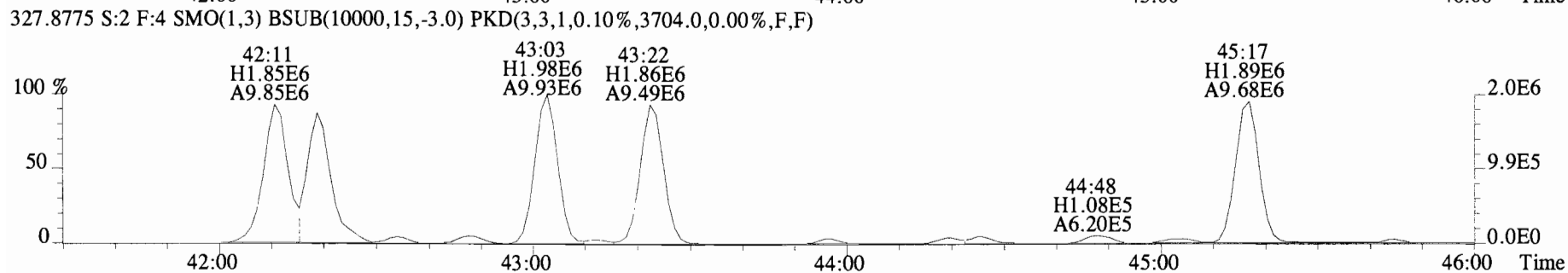
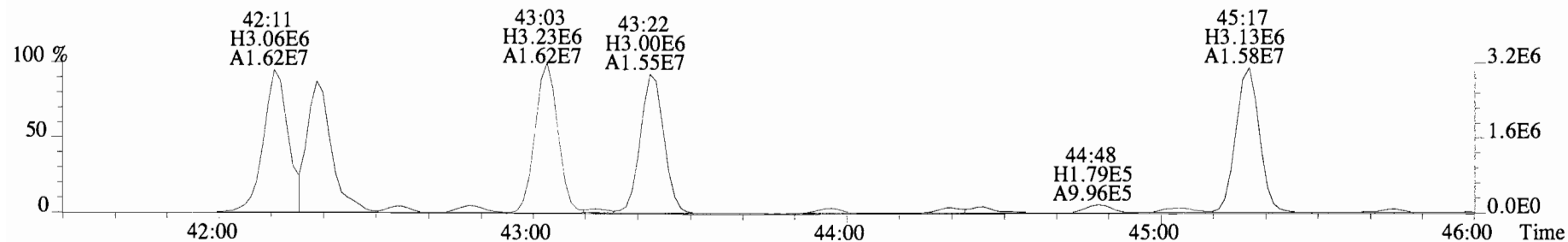
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



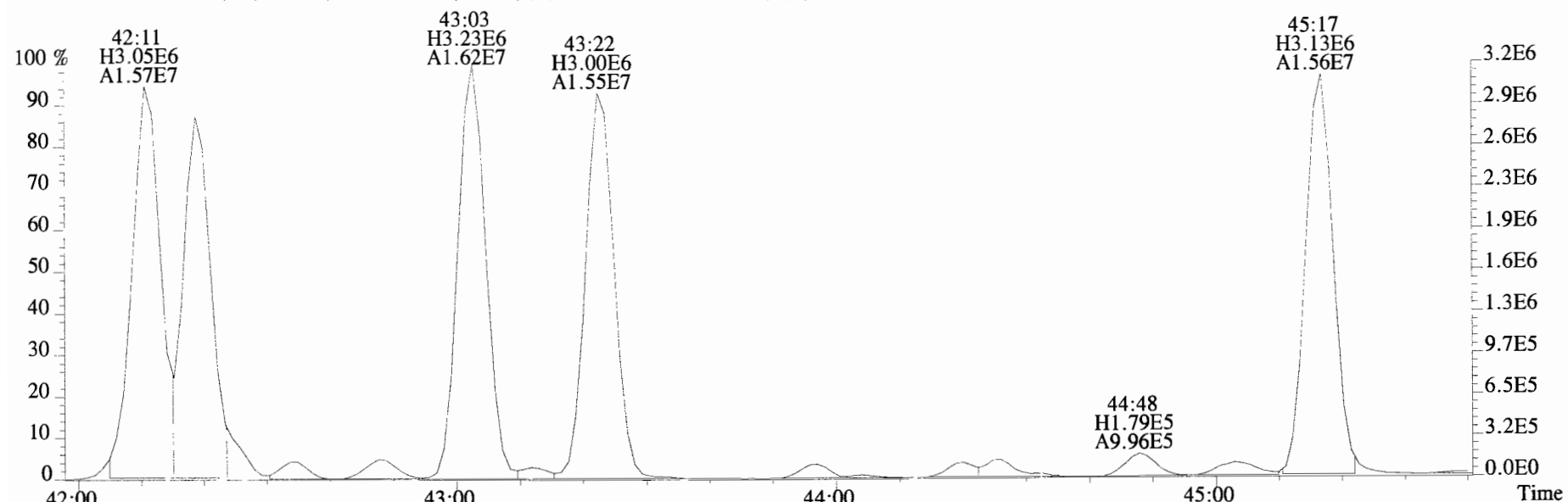
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



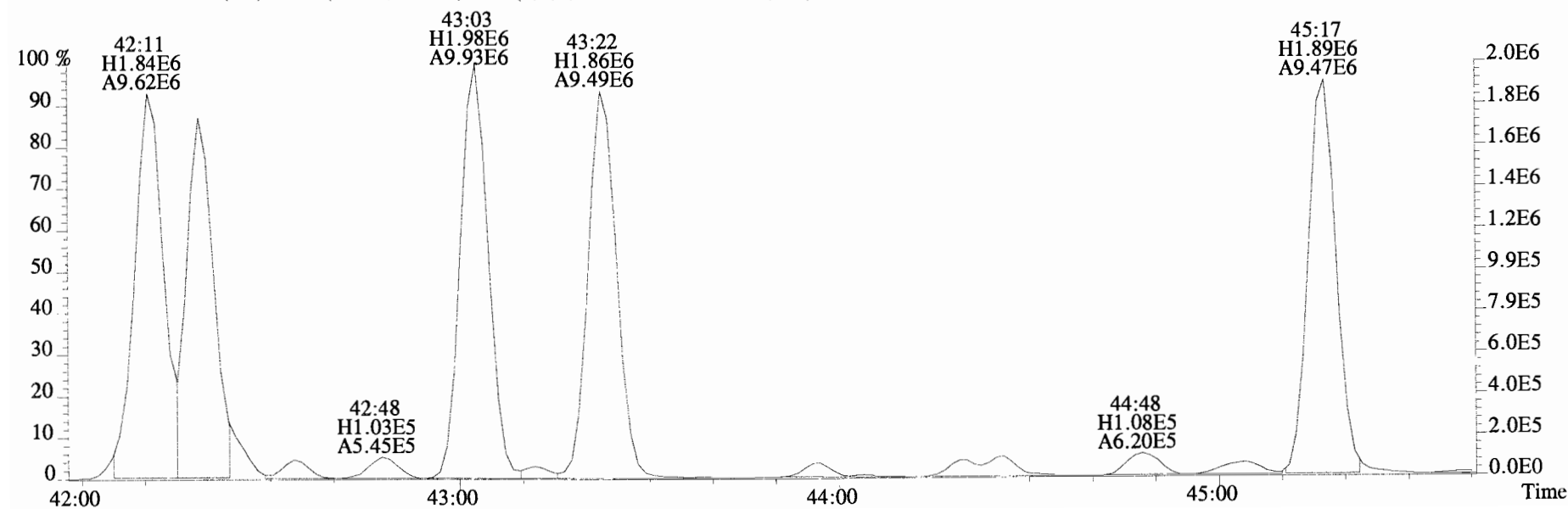
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5464.0,0.00%,F,F)



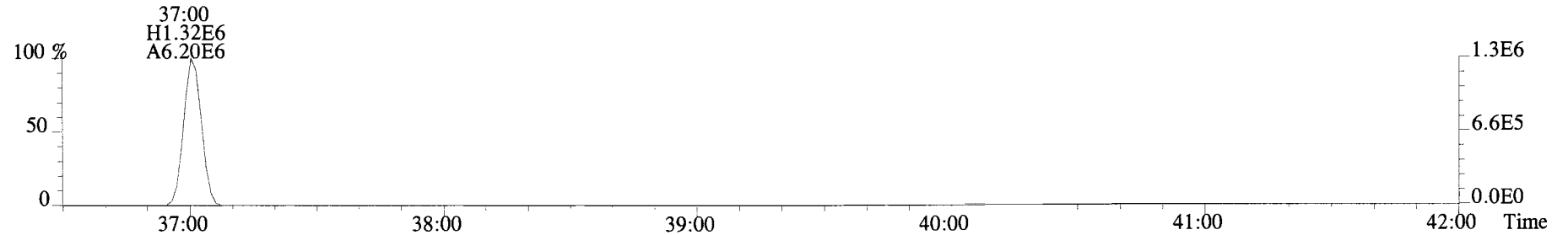
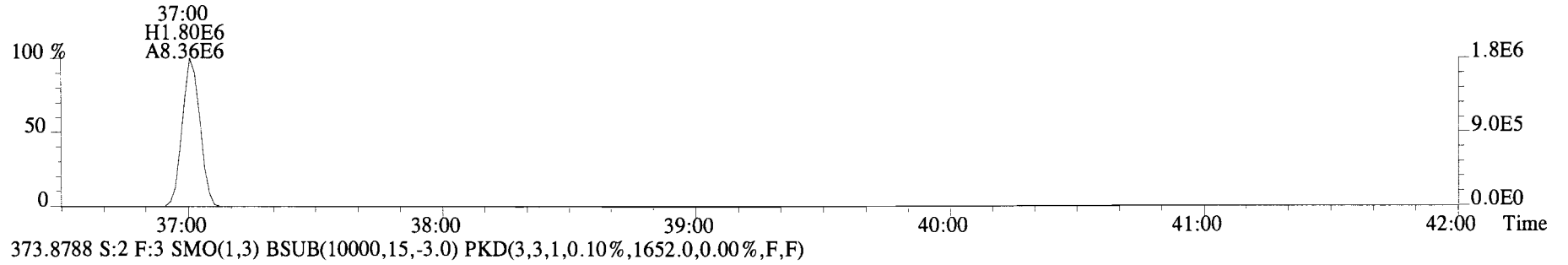
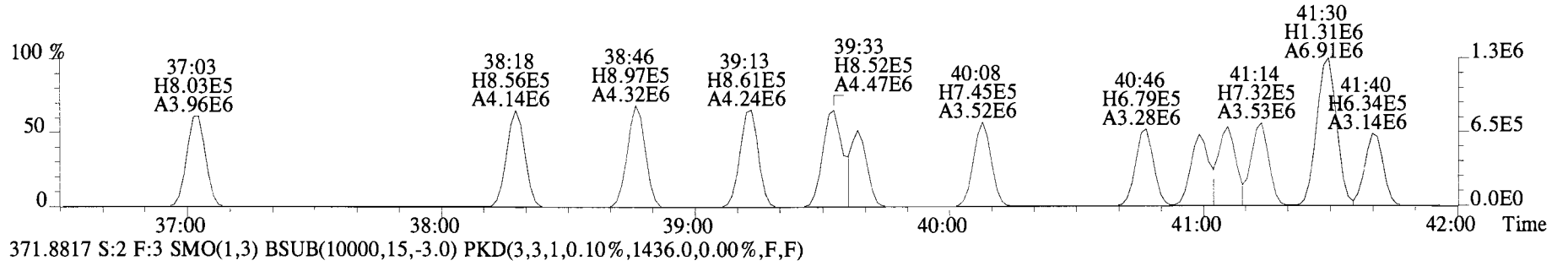
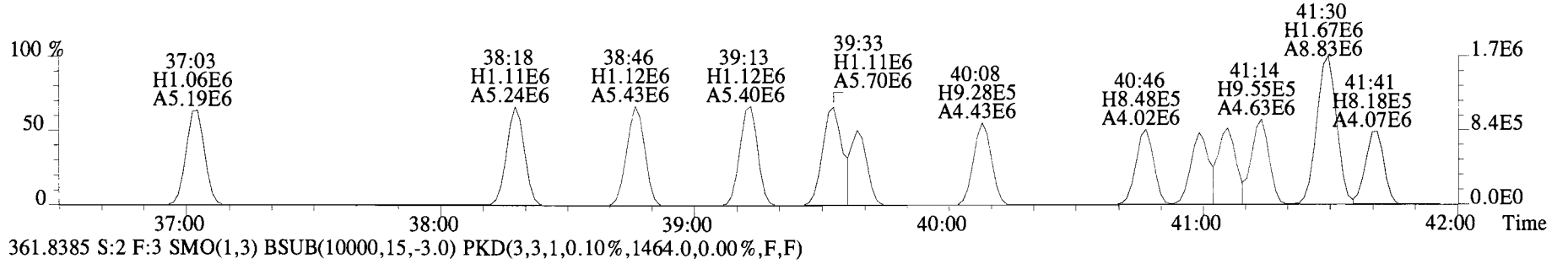
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5464.0,0.00%,F,F)



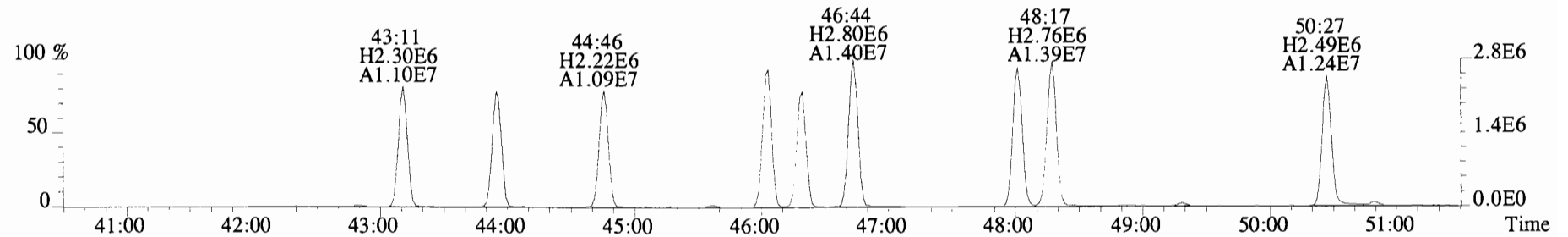
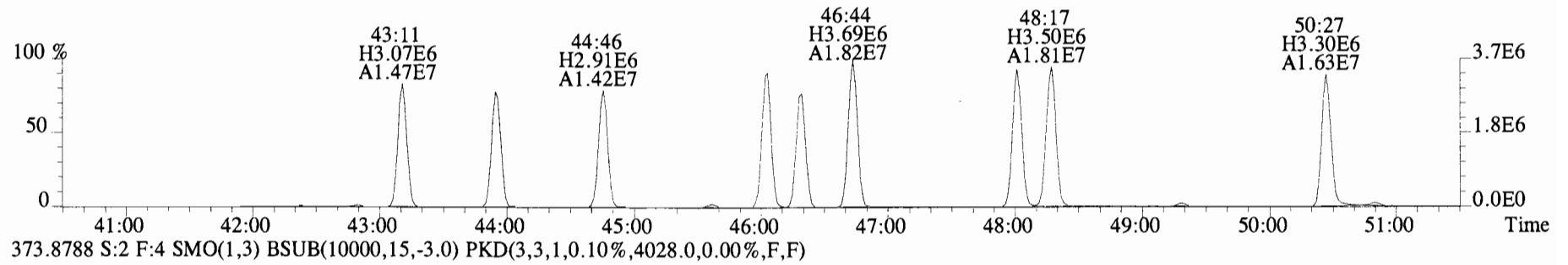
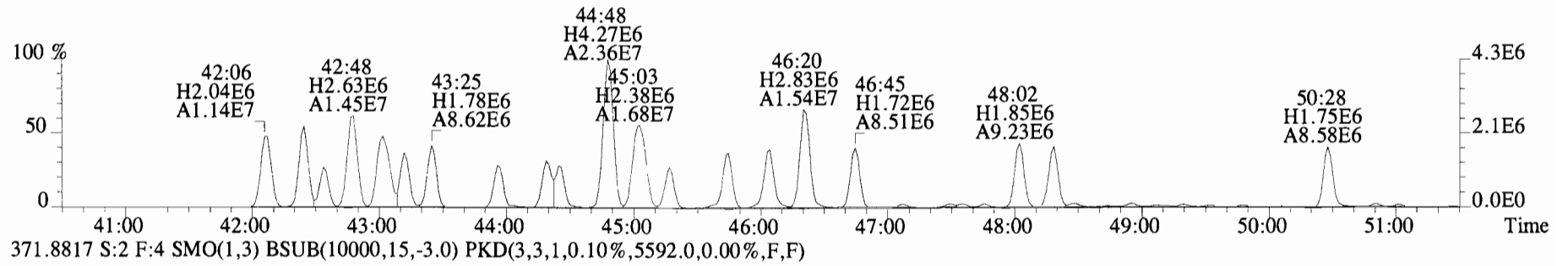
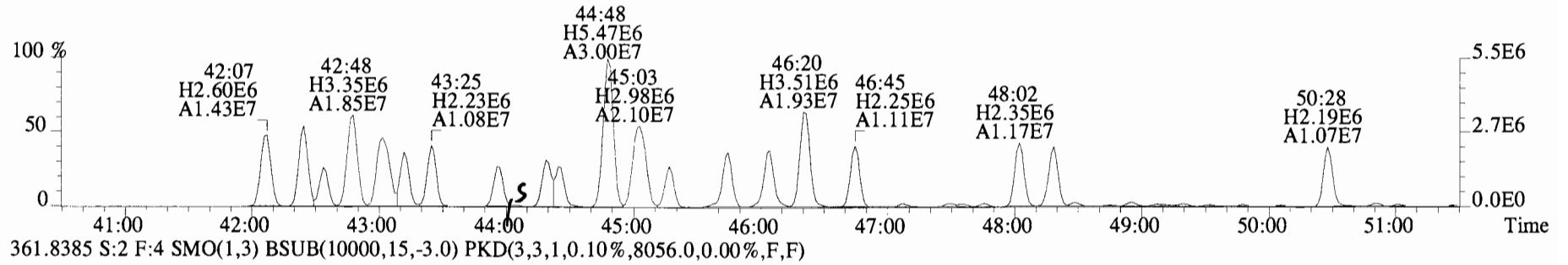
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3704.0,0.00%,F,F)



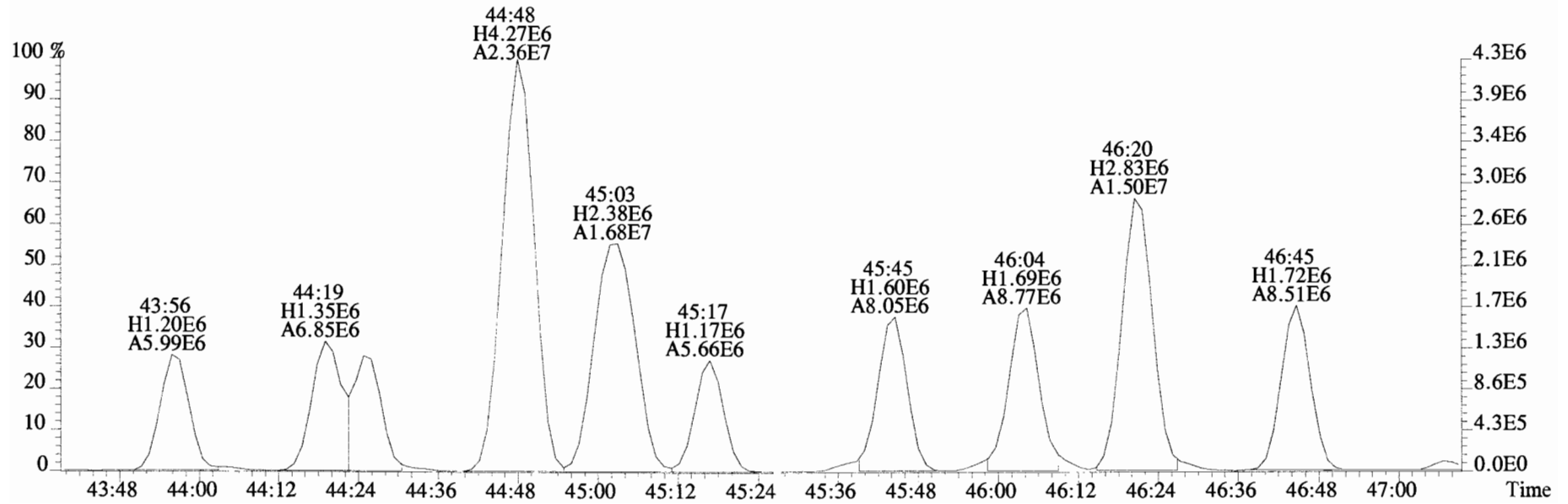
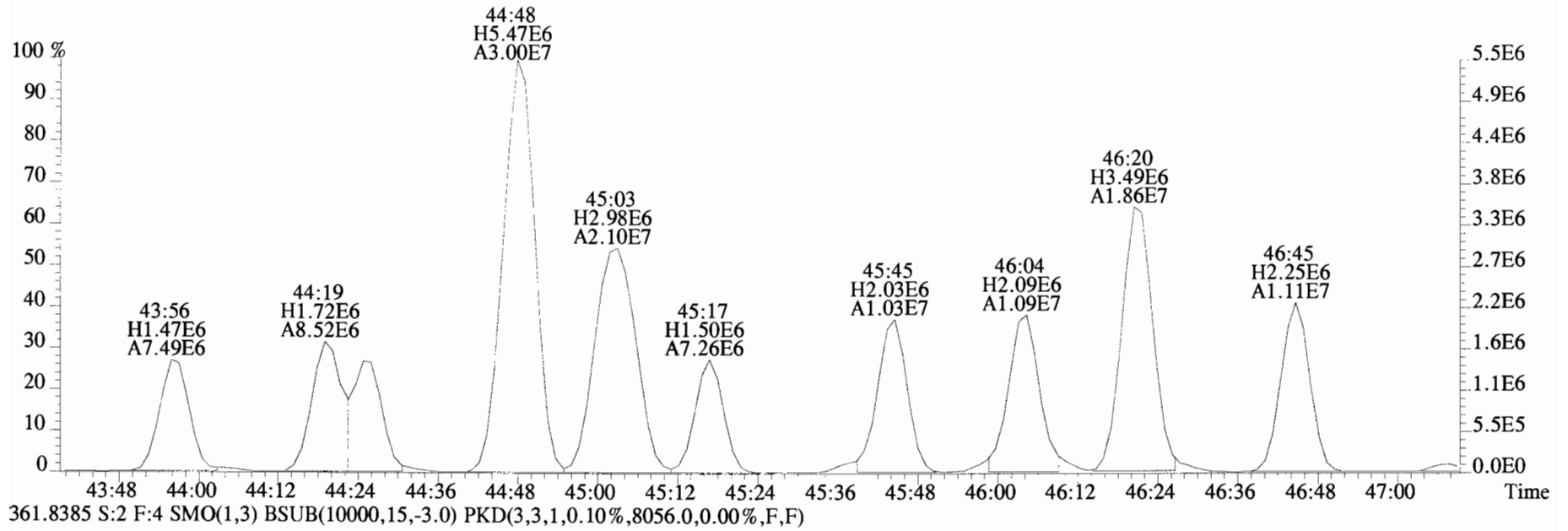
File:141226E1 #1-761 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1460.0,0.00%,F,F)



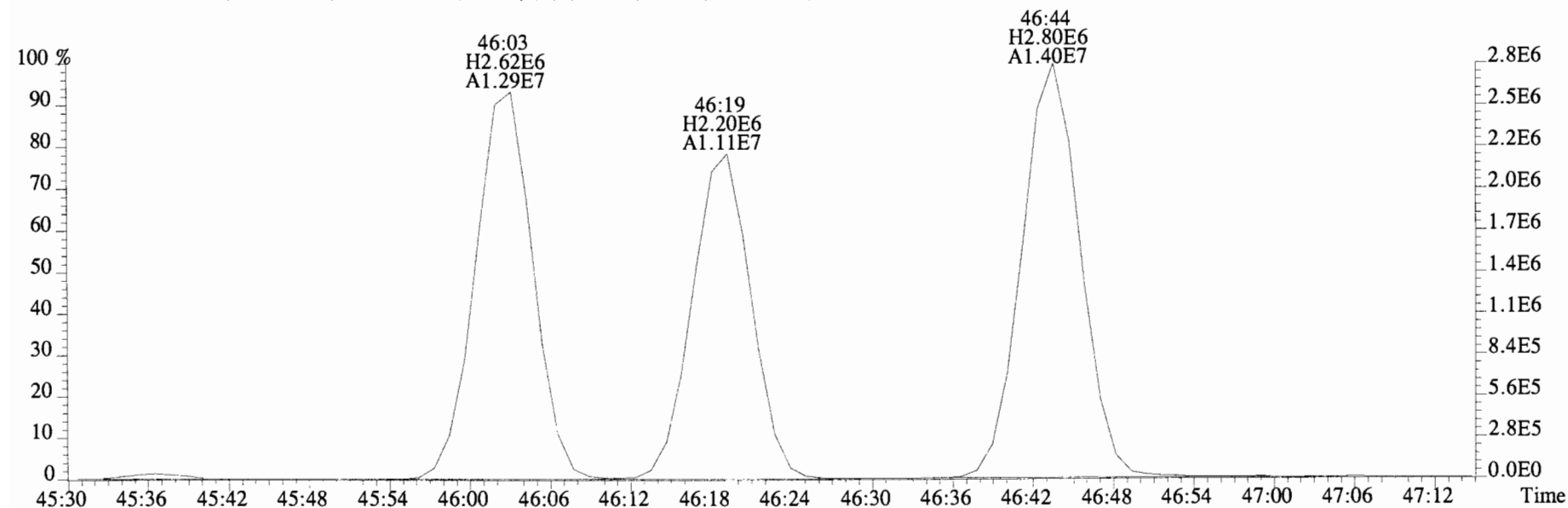
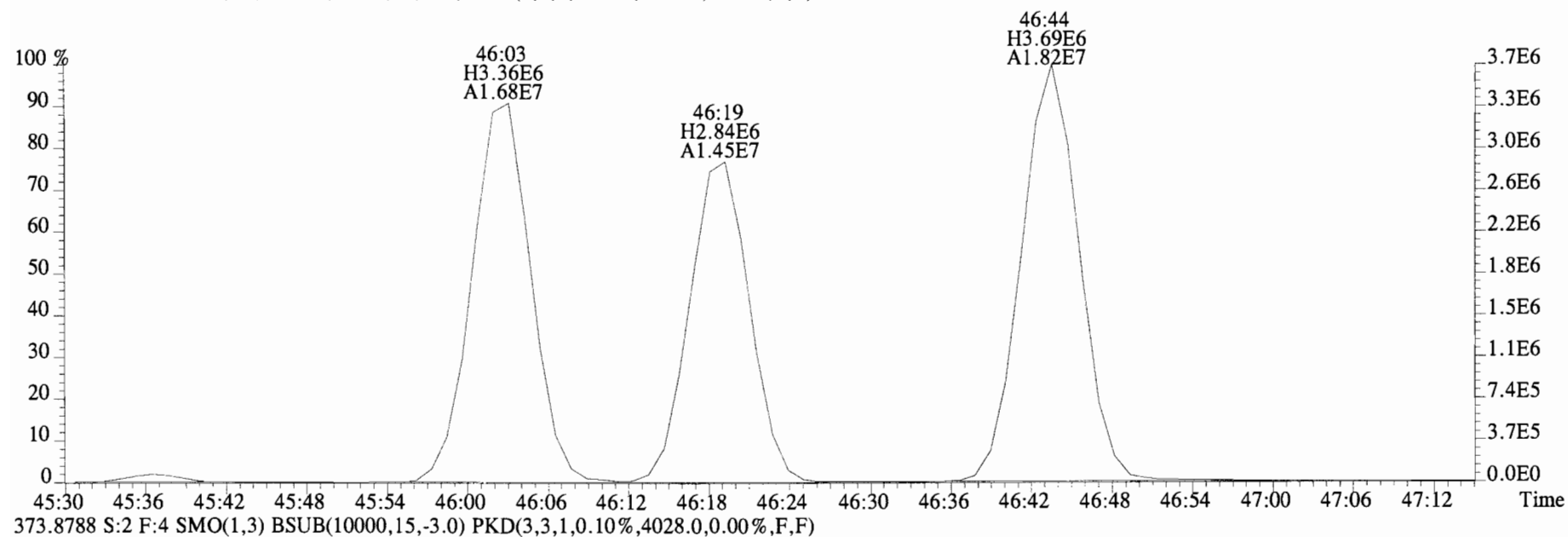
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10656.0,0.00%,F,F)



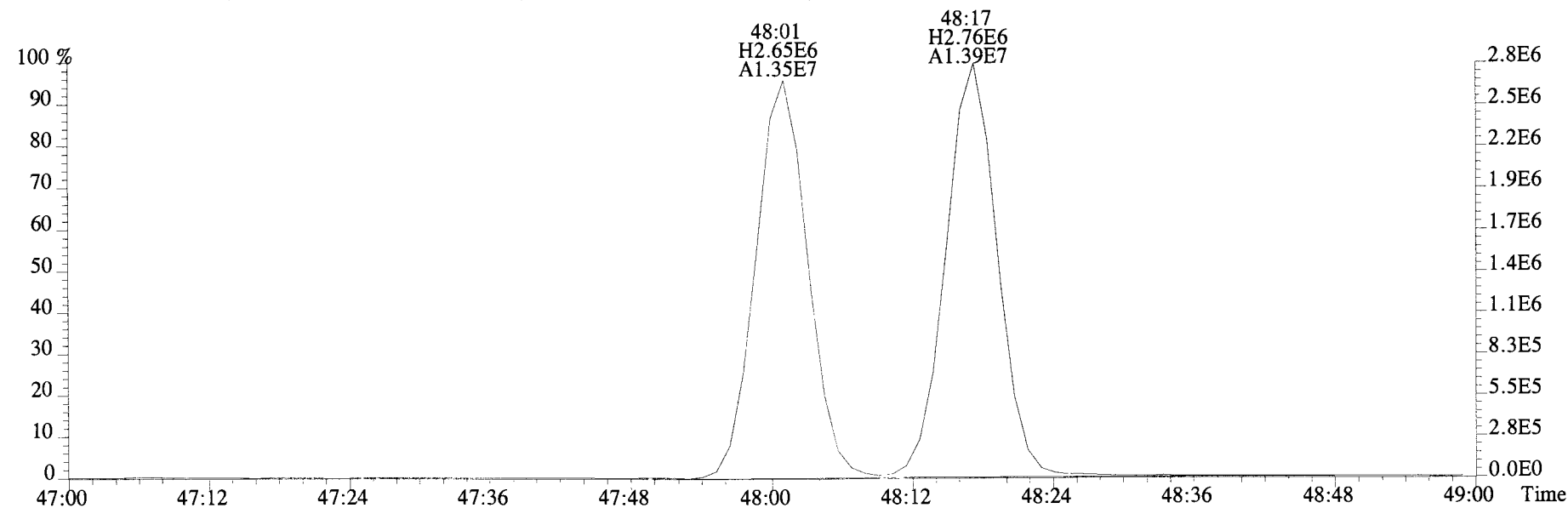
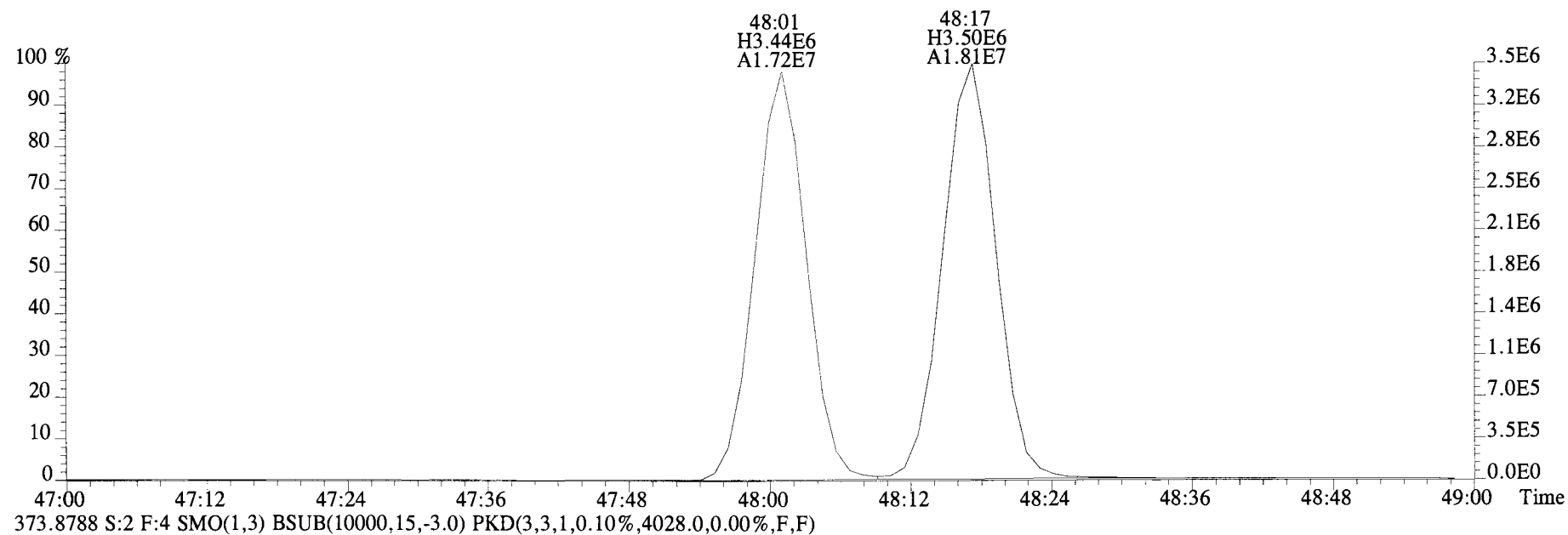
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
 359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10656.0,0.00%,F,F)



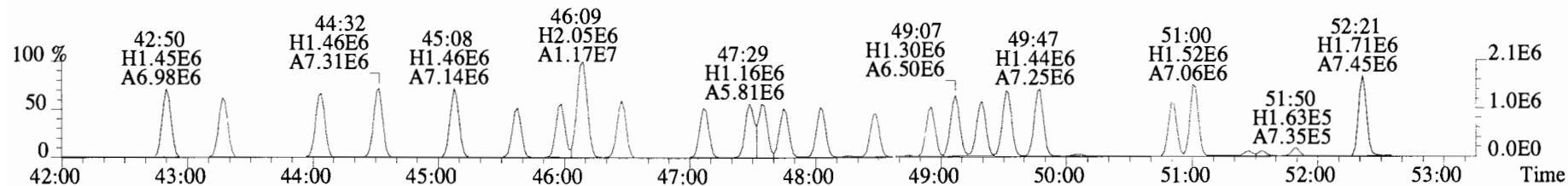
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text: B4L0127-BS1 OPR 1 Exp: PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5592.0,0.00%,F,F)



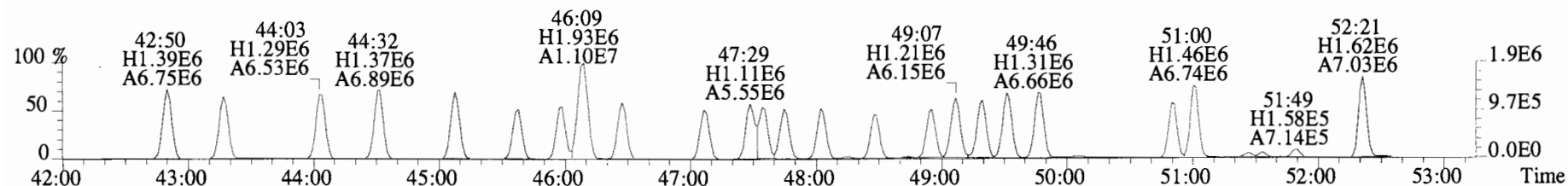
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5592.0,0.00%,F,F)



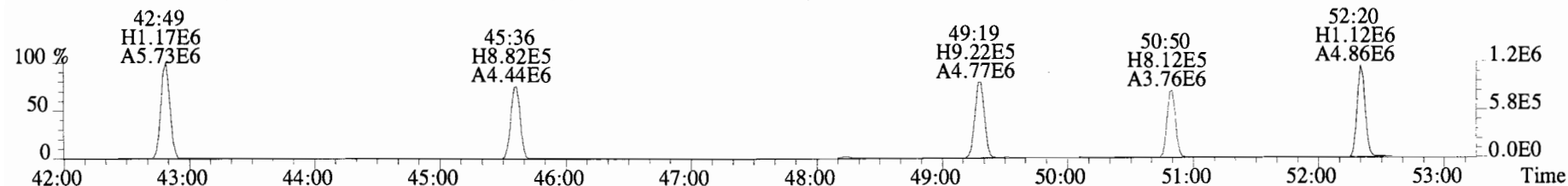
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3844.0,0.00%,F,F)



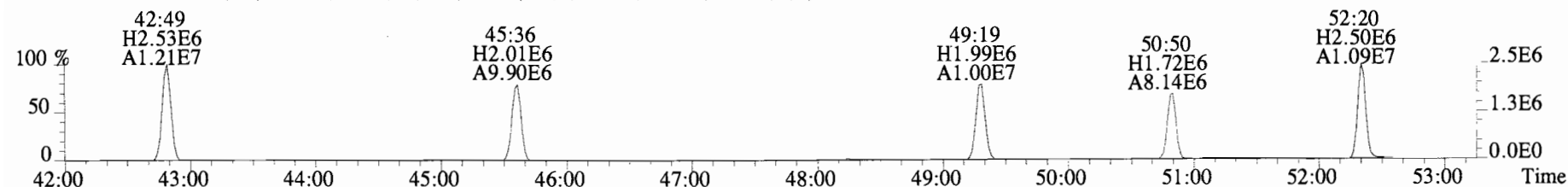
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4452.0,0.00%,F,F)



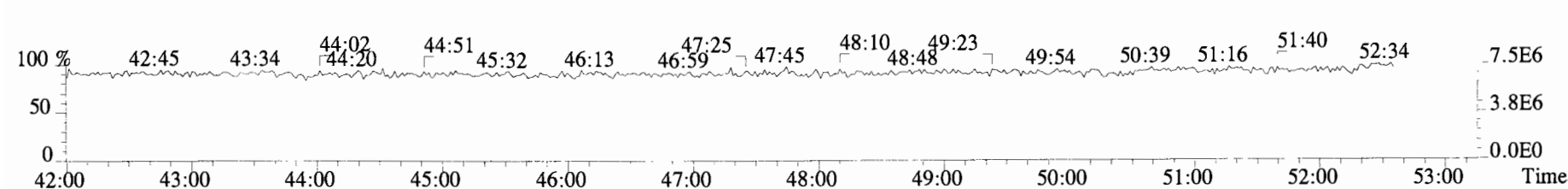
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1760.0,0.00%,F,F)



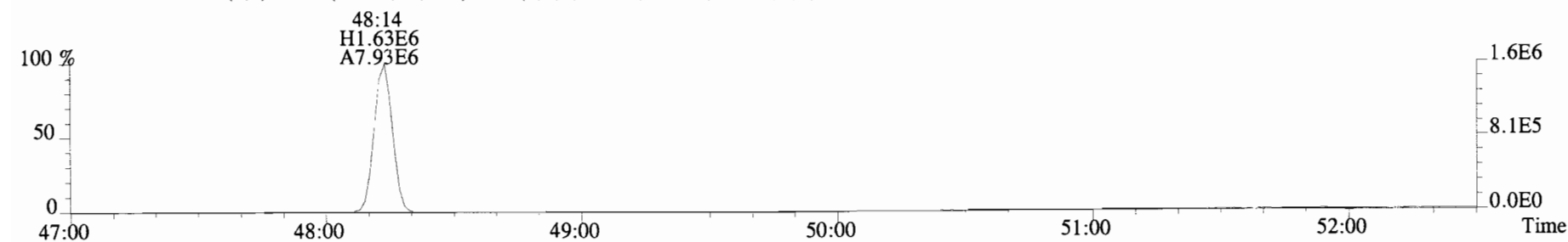
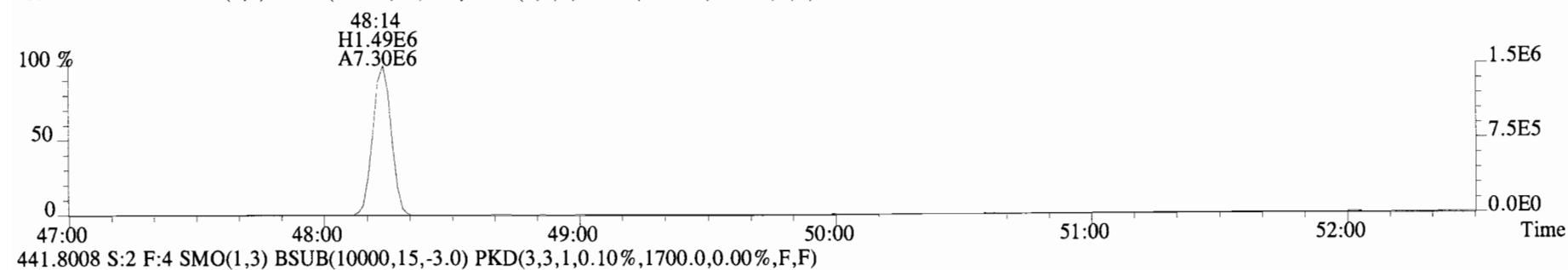
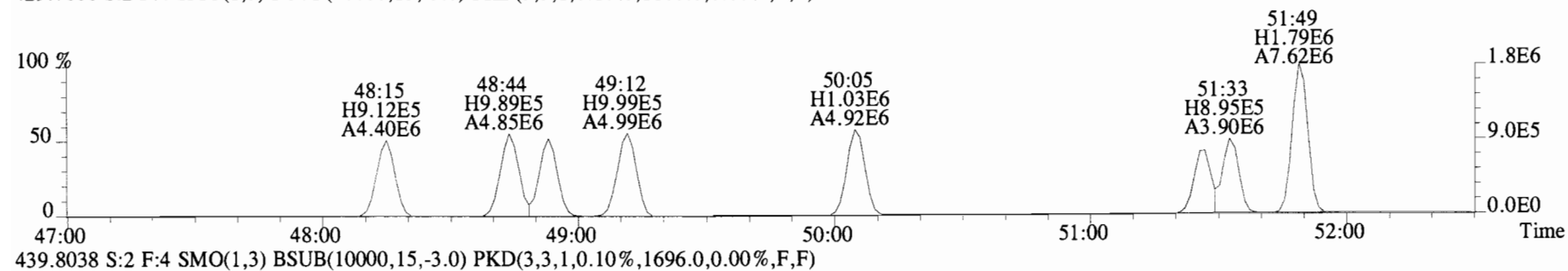
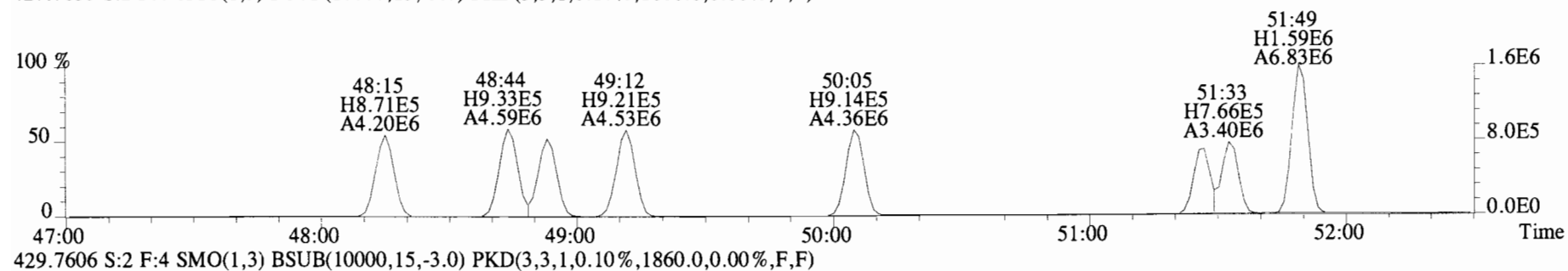
405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2312.0,0.00%,F,F)



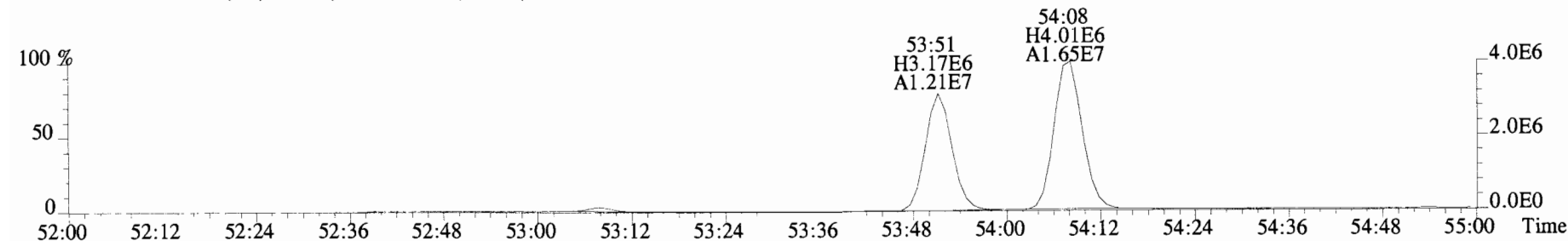
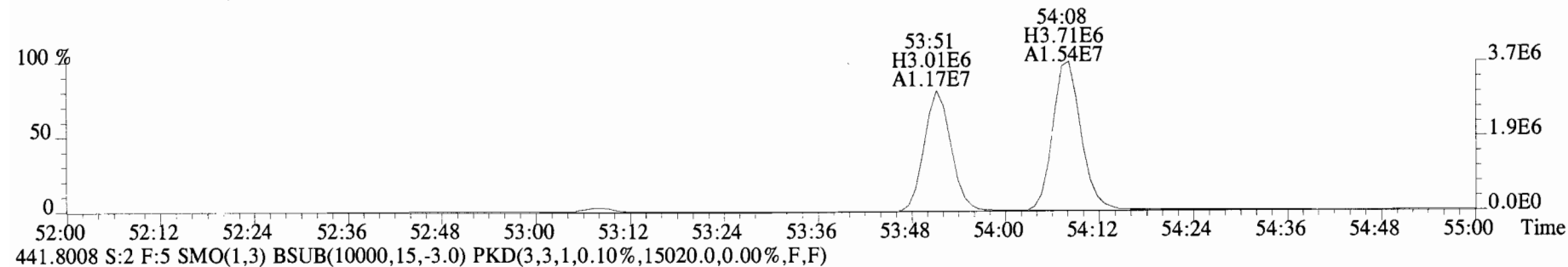
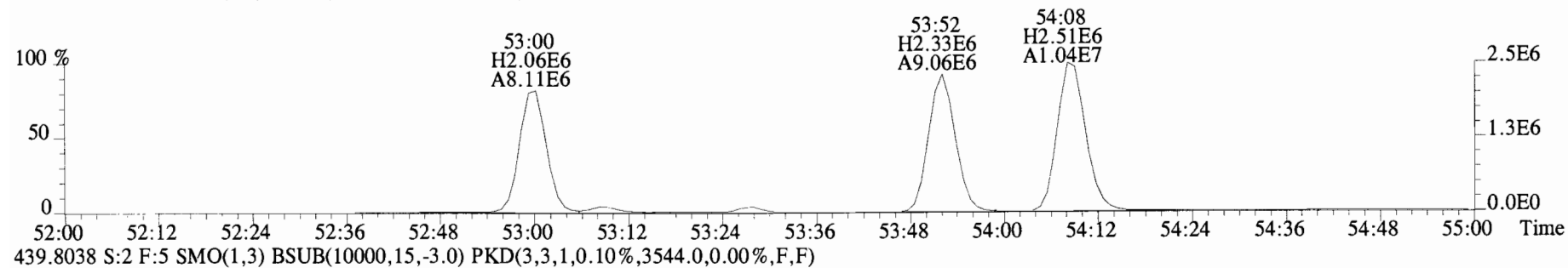
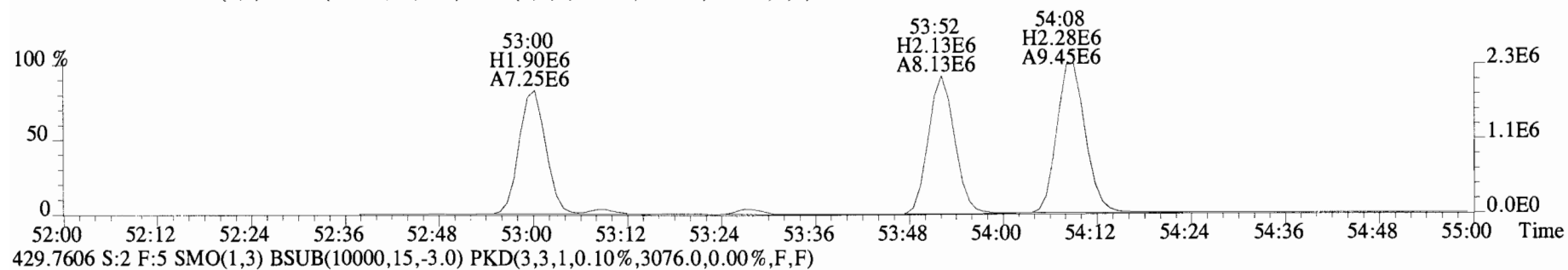
380.9760 S:2 F:4



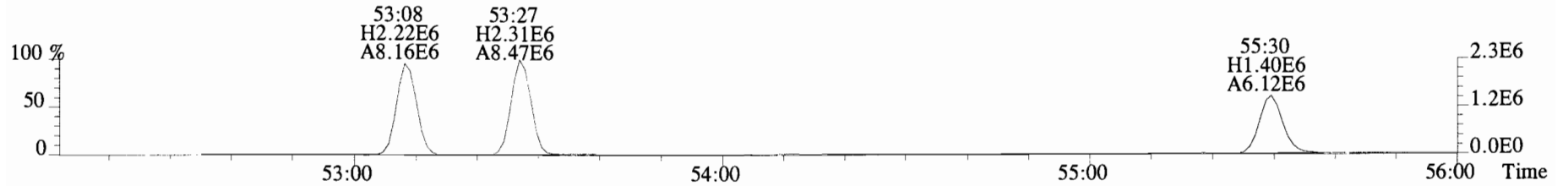
File:141226E1 #1-552 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



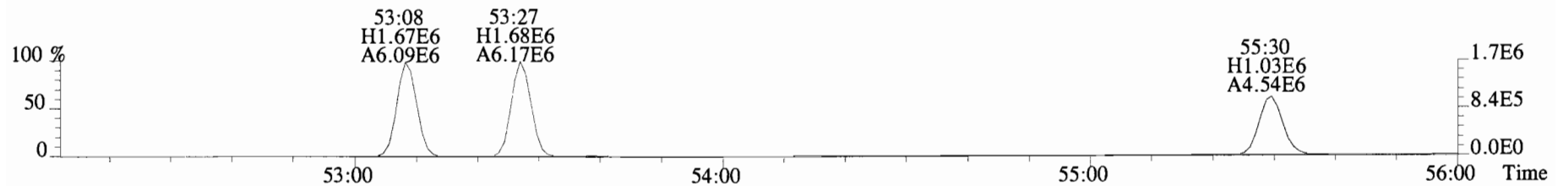
File:141226E1 #1-430 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9996.0,0.00%,F,F)



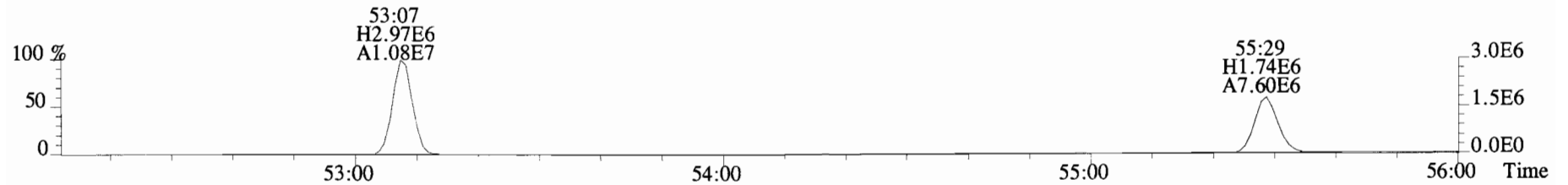
File:141226E1 #1-430 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-BS1 OPR 1 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5908.0,0.00%,F,F)



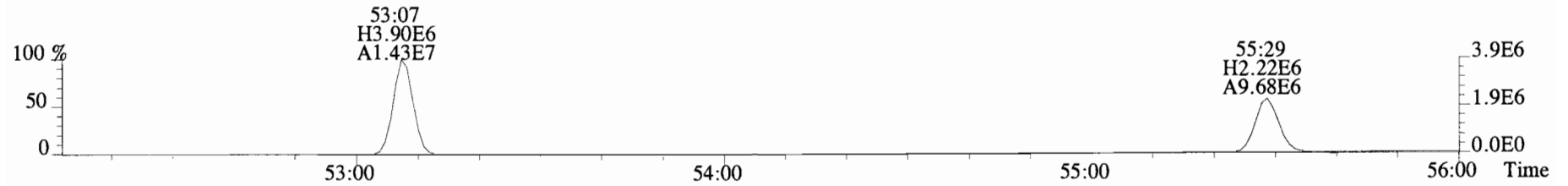
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4028.0,0.00%,F,F)



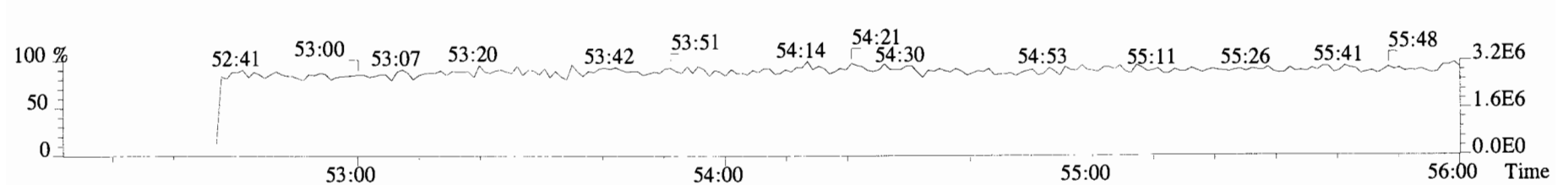
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5676.0,0.00%,F,F)



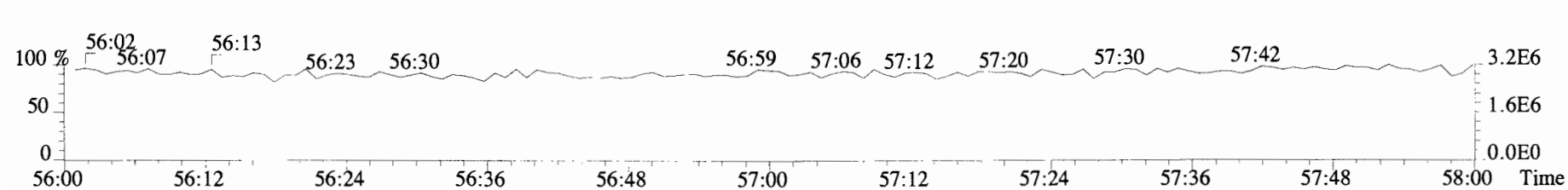
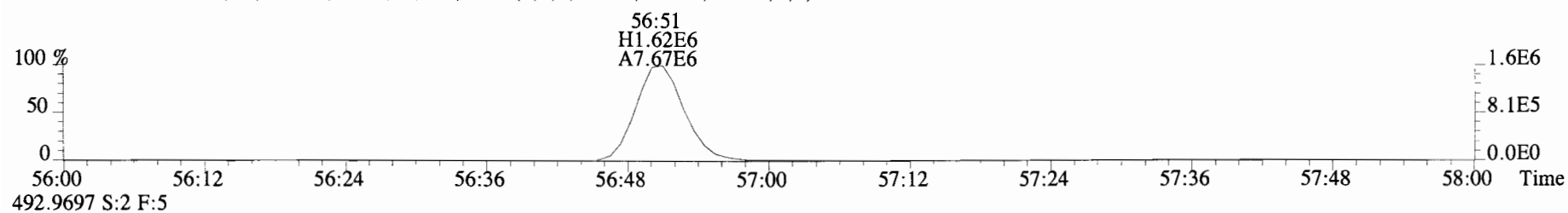
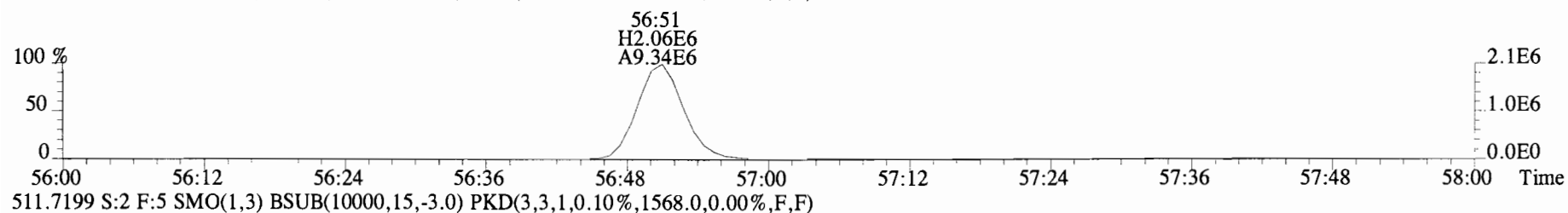
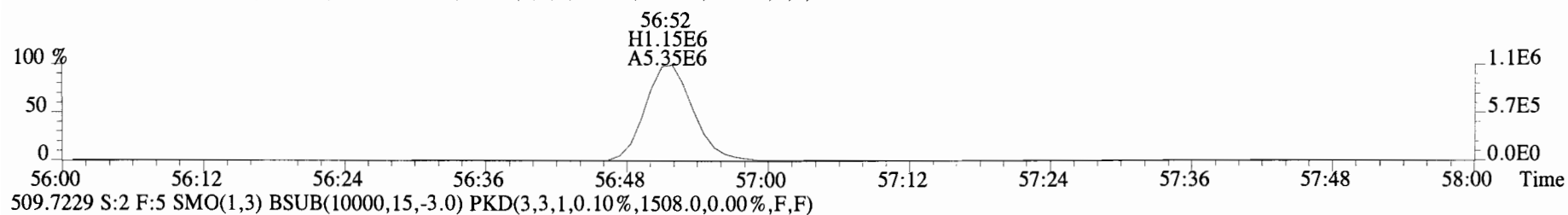
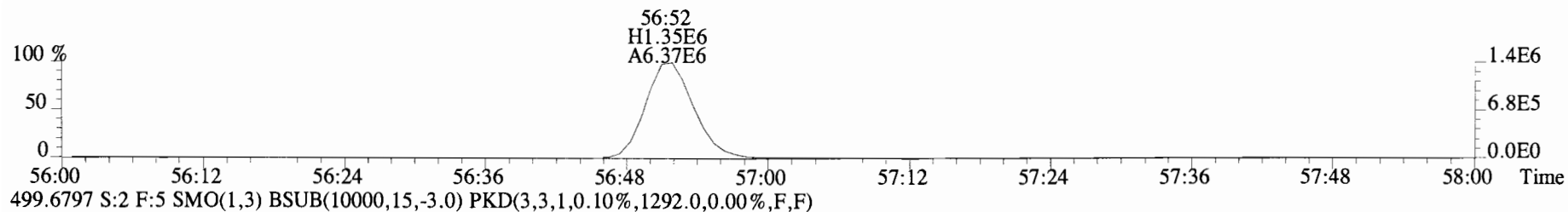
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6780.0,0.00%,F,F)



492.9697 S:2 F:5



File:141226E1 #1-430 Acq:26-DEC-2014 12:27:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B4L0127-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%,1444.0,0.00%,F,F)



Client ID: SC-MH-20-20141211-W
Lab ID: 1400948-04

Filename: 141226E1
GC Column ID: ZB-1

S:7 Acq:26-DEC-14 17:49:21
ICal: PCBVG8-6-20-14 wt/vol: 0.993

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	1.15e+05	2.71	y 16:08	1.25	3.44	*	2.5	*	*	1.001	0.996-1.006	
Mono	PCB-2	5.51e+04	2.85	y 18:30	1.18	1.67	*	2.5	*	*	0.988	0.983-0.993	
Mono	PCB-3	1.01e+05	3.29	y 18:45	1.22	2.97	*	2.5	*	*	1.001	0.996-1.006	
Di	PCB-4/10	8.41e+05	1.77	y 20:05	1.55	32.4	*	2.5	*	*	1.002	0.998-1.008	
Di	PCB-7/9	2.40e+05	1.71	y 21:53	1.27	7.24	*	2.5	*	*	0.868	0.865-0.873	
Di	PCB-6	6.40e+05	1.55	y 22:32	1.26	19.4	*	2.5	*	*	0.894	0.890-0.899	
Di	PCB-5/8	2.85e+06	1.65	y 22:55	1.23	88.3	*	2.5	*	*	0.909	0.906-0.916	
Di	PCB-14	*	*	n NotF η	1.23	*	*	12000	2.5	7.32	*	0.949-0.959	
Di	PCB-11	3.83e+06	1.60	y 25:15	1.16	96.6	*	2.5	*	*	1.001	0.996-1.006	
Di	PCB-12/13	5.19e+05	1.38	y 25:37	1.10	13.8	*	2.5	*	*	1.016	1.010-1.020	
Di	PCB-15	6.19e+06	1.65	y 25:56	1.21	150	*	2.5	*	*	1.028	1.024-1.034	
Tri	PCB-19	7.28e+05	1.19	y 24:13	1.30	37.6	*	2.5	*	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.83	*	*	1200	2.5	0.915	*	1.032-1.042	
Tri	PCB-18	5.35e+06	1.06	y 25:52	0.86	242	*	2.5	*	*	0.954	0.949-0.959	
Tri	PCB-17	2.38e+06	1.10	y 26:02	0.90	102	*	2.5	*	*	0.960	0.955-0.965	
Tri	PCB-24/27	9.95e+05	1.10	y 26:36	1.18	32.8	*	2.5	*	*	0.981	0.976-0.986	
Tri	PCB-16/32	6.70e+06	1.11	y 27:07	1.03	253	*	2.5	*	*	1.000	0.995-1.005	
Tri	PCB-34	5.76e+04	1.11	y 27:55	1.26	1.44	*	2.5	*	*	0.960	0.956-0.966	
Tri	PCB-23	*	*	n NotF η	1.31	*	*	3600	1.0	0.852	*	0.959-0.969	
Tri	PCB-29	1.41e+05	1.06	y 28:16	1.33	3.33	*	2.5	*	*	0.972	0.967-0.977	
Tri	PCB-26	3.63e+06	1.07	y 28:29	1.29	88.3	*	2.5	*	*	0.979	0.974-0.984	
Tri	PCB-25	1.79e+06	1.02	y 28:38	1.34	41.8	*	2.5	*	*	0.985	0.980-0.990	
Tri	PCB-31	2.05e+07	1.02	y 29:00	1.42	454	*	2.5	*	*	0.997	0.992-1.002	
Tri	PCB-28	2.54e+07	1.04	y 29:05	1.38	579	*	2.5	*	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	1.38e+07	1.01	y 29:44	1.31	331	*	2.5	*	*	1.022	1.017-1.027	
Tri	PCB-22	1.25e+07	1.04	y 30:09	1.32	298	*	2.5	*	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.38	*	*	2400	2.5	1.48	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF η	1.42	*	*	2400	2.5	1.44	*	0.943-0.953	
Tri	PCB-38	2.48e+05	1.08	y 32:01	1.35	5.95	*	2.5	*	*	0.972	0.967-0.976	
Tri	PCB-35	1.00e+06	1.02	y 32:32	1.38	23.7	*	2.5	*	*	0.987	0.982-0.992	
Tri	PCB-37	2.20e+07	1.02	y 32:58	1.39	514	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-54	3.03e+04	0.80	y 27:58	1.20	1.21	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.97	*	*	1440	2.5	1.50	*	1.037-1.047	
Tetra	PCB-53	1.67e+06	0.85	y 29:47	1.19	69.9	*	2.5	*	*	0.946	0.941-0.951	
Tetra	PCB-51	7.91e+05	0.78	y 30:08	1.15	34.2	*	2.5	*	*	0.957	0.952-0.962	
Tetra	PCB-45	1.87e+06	0.77	y 30:33	0.97	96.4	*	2.5	*	*	0.970	0.966-0.976	
Tetra	PCB-46	8.48e+05	0.75	y 31:02	0.95	44.4	*	2.5	*	*	0.985	0.982-0.992	

Integrations by:

Analyst: MM

Date: 12/30/14

Reviewed by: [Signature]

Date: 12/31/14

Client ID: SC-MH-20-20141211-W
Lab ID: 1400948-04

Filename: 141226E1
GC Column ID: ZB-1

S:7 Acq:26-DEC-14 17:49:21
ICal: PCBVG8-6-20-14 wt/vol: 0.993

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	2.23e+07	0.79	y 31:31	1.28	869	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.37	*		4140	2.5	3.23	*	1.000-1.010	
Tetra	PCB-43/49	1.17e+07	0.77	y 31:49	1.11	525	*	2.5	*	*	1.010	1.005-1.015	
Tetra	PCB-47	4.73e+06	0.81	y 32:00	1.13	199	*	2.5	*	*	1.000	0.996-1.006	
Tetra	PCB-48/75	3.66e+06	0.77	y 32:08	1.30	133	*	2.5	*	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.33	*		1700	2.5	1.31	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF η	1.29	*		1700	2.5	1.35	*	1.011-1.021	
Tetra	PCB-44	1.73e+07	0.80	y 32:48	0.94	876	*	2.5	*	*	1.025	1.020-1.030	
Tetra	PCB-42/59	7.17e+06	0.78	y 33:02	1.22	280	*	2.5	*	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	2.36e+07	0.82	y 33:37	1.31	856	*	2.5	*	*	1.051	1.046-1.056	
Tetra	PCB-68	3.34e+05	0.87	y 33:53	1.49	10.7	*	2.5	*	*	1.059	1.054-1.064	
Tetra	PCB-40	3.44e+06	0.86	y 34:05	0.82	200	*	2.5	*	*	1.065	1.061-1.071	
Tetra	PCB-57	1.93e+05	0.86	y 34:27	1.11	5.84	*	2.5	*	*	0.970	0.965-0.975	
Tetra	PCB-67	1.16e+06	0.75	y 34:45	1.07	36.5	*	2.5	*	*	0.978	0.974-0.984	
Tetra	PCB-58	7.95e+04	0.71	y 34:52	1.10	2.43	*	2.5	*	*	0.982	0.977-0.987	
Tetra	PCB-63	1.30e+06	0.81	y 35:02	1.12	39.4	*	2.5	*	*	0.986	0.982-0.992	
Tetra	PCB-74	1.82e+07	0.77	y 35:19	1.20	511	*	2.5	*	*	0.994	0.990-1.000	
Tetra	PCB-61/70	4.96e+07	0.80	y 35:32	1.08	1550	*	2.5	*	*	1.000	0.994-1.004	
Tetra	PCB-76/66	3.66e+07	0.80	y 35:44	1.14	1090	*	2.5	*	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.28	*		1700	2.5	1.05	*	0.996-1.006	
Tetra	PCB-55	1.37e+06	0.77	y 36:15	1.11	41.4	*	2.5	*	*	1.009	1.005-1.015	
Tetra	PCB-56/60	3.46e+07	0.79	y 36:46	1.09	1060	*	2.5	*	*	1.023	1.018-1.028	
Tetra	PCB-79	9.50e+05	0.88	y 37:50	1.12	28.2	*	2.5	*	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.24	*		1700	2.5	1.21	*	0.982-0.992	
Tetra	PCB-81	7.64e+05	0.88	y 39:03	1.38	20.1	*	2.5	*	*	1.000	0.995-1.005	
Tetra	PCB-77	1.10e+07	0.79	y 39:38	1.21	315	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.26	*		1670	2.5	2.73	*	0.996-1.006	
Penta	PCB-96	2.11e+05	1.58	y 33:55	1.09	12.7	*	2.5	*	*	1.039	1.034-1.044	
Penta	PCB-103	1.09e+05	1.51	y 34:28	0.93	7.68	*	2.5	*	*	1.056	1.050-1.060	
Penta	PCB-100	6.49e+04	1.63	y 34:50	1.00	4.27	*	2.5	*	*	1.067	1.061-1.071	
Penta	PCB-94	1.25e+05	1.47	y 35:18	1.11	9.14	*	2.5	*	*	0.986	0.981-0.991	
Penta	PCB-95/98/102	2.17e+07	1.63	y 35:50	1.21	1450	*	2.5	*	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF η	1.13	*		1670	2.5	3.86	*	0.998-1.008	
Penta	PCB-88/91	3.89e+06	1.71	y 36:14	1.02	310	*	2.5	*	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF η	1.90	*		1670	2.5	2.29	*	1.009-1.019	
Penta	PCB-84/92	1.30e+07	1.65	y 37:08	1.05	892	*	2.5	*	*	0.990	0.986-0.996	
Penta	PCB-89	3.27e+05	1.63	y 37:18	1.02	23.2	*	2.5	*	*	0.995	0.991-1.001	

Analyst: MS

Date: 12/20/14

Client ID: SC-MH-20-20141211-W
Lab ID: 1400948-04

Filename: 141226E1
GC Column ID: ZB-1

S:7 Acq:26-DEC-14 17:49:21
ICal: PCBVG8-6-20-14 wt/vol: 0.993

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	3.66e+07	1.65	y 37:31	1.19	2220	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-113	*	*	n NotF η	1.35	*		2200	2.5	3.90	*	1.002-1.012	
Penta	PCB-99	1.58e+07	1.66	y 37:50	1.29	886	*	2.5	*	*	1.009	1.005-1.015	
Penta	PCB-119	7.32e+05	1.44	y 38:18	1.72	33.0	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	1.84e+06	1.71	y 38:28	1.29	111	*	2.5	*	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.52	*		2200	2.5	3.72	*	0.991-1.001	
Penta	PCB-97	1.24e+07	1.64	y 38:48	1.25	772	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-86	1.13e+05	1.50	y 38:57	1.02	8.58	*	2.5	*	*	1.004	1.000-1.010	
Penta	PCB-87/117/125	2.07e+07	1.65	y 39:05	1.56	1030	*	2.5	*	*	1.007	1.002-1.012	
Penta	PCB-111/115	8.69e+05	1.72	y 39:13	1.75	38.6	*	2.5	*	*	1.011	1.007-1.017	
Penta	PCB-85/116	8.31e+06	1.73	y 39:21	1.30	496	*	2.5	*	*	1.014	1.010-1.020	
Penta	PCB-120	1.32e+05	1.70	y 39:34	1.78	5.74	*	2.5	*	*	1.020	1.016-1.026	
Penta	PCB-110	6.74e+07	1.64	y 39:45	1.68	3120	*	2.5	*	*	1.024	1.020-1.030	
Penta	PCB-82	5.57e+06	1.65	y 40:23	0.74	426	*	2.5	*	*	0.976	0.972-0.982	
Penta	PCB-124	2.98e+06	1.69	y 41:03	1.32	127	*	2.5	*	*	0.992	0.988-0.998	
Penta	PCB-107/109	4.47e+06	1.58	y 41:14	1.22	207	*	2.5	*	*	0.997	0.991-1.001	
Penta	PCB-123	1.10e+06	1.77	y 41:23	1.22	51.2	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-106/118	6.86e+07	1.65	y 41:33	1.22	2980	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	2.20e+06	1.66	y 42:13	1.36	71.6	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-122	1.07e+06	1.69	y 42:21	1.24	38.3	*	2.5	*	*	1.004	0.999-1.009	
Penta	PCB-105	4.26e+07	1.62	y 43:04	1.28	1440	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.14	*		3600	2.5	4.40	*	0.995-1.005	
Penta	PCB-126	1.33e+06	1.54	y 45:19	1.28	48.3	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.14	*		917	2.5	1.84	*	0.966-1.006	
Hexa	PCB-150	4.58e+04	1.29	y 38:19	1.06	3.38	*	2.5	*	*	1.035	1.030-1.040	
Hexa	PCB-152	3.58e+04	1.19	y 38:47	1.10	2.56	*	2.5	*	*	1.047	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.09	*		917	2.5	1.91	*	1.055-1.065	
Hexa	PCB-136	3.69e+06	1.25	y 39:33	1.08	267	*	2.5	*	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF η	0.74	*		917	2.5	2.82	*	1.066-1.076	
Hexa	PCB-154	2.41e+05	1.13	y 40:09	0.88	21.4	*	2.5	*	*	1.084	1.079-1.089	
Hexa	PCB-151	4.70e+06	1.35	y 40:48	0.81	456	*	2.5	*	*	1.102	1.097-1.107	
Hexa	PCB-135	3.28e+06	1.26	y 41:00	0.78	331	*	2.5	*	*	1.107	1.101-1.113	
Hexa	PCB-144	1.06e+06	1.39	y 41:08	0.82	101	*	2.5	*	*	1.111	1.105-1.116	
Hexa	PCB-147	5.31e+05	1.39	y 41:15	0.83	50.3	*	2.5	*	*	1.114	1.011-1.120	
Hexa	PCB-139/149	2.28e+07	1.28	y 41:30	0.84	2120	*	2.5	*	*	1.121	1.115-1.127	
Hexa	PCB-140	1.88e+05	1.09	y 41:42	0.79	18.8	*	2.5	*	*	1.126	1.120-1.132	
Hexa	PCB-134/143	2.66e+06	1.26	y 42:08	0.93	136	*	2.5	*	*	0.975	0.970-0.980	

Analyst: ms

Date: 12/30/14

Client ID: SC-MH-20-20141211-W
Lab ID: 1400948-04

Filename: 141226E1
GC Column ID: ZB-1

S:7 Acq:26-DEC-14 17:49:21
ICal: PCBVG8-6-20-14 wt/vol: 0.993

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	1.42e+06	1.28	y 42:26	0.95	71.1		*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.91	*		2400	2.5	3.77	*	0.981-0.991	
Hexa	PCB-146/165	7.88e+06	1.28	y 42:50	1.16	323		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	2.03e+07	1.27	y 43:05	1.11	863		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	5.84e+07	1.28	y 43:14	1.18	2350		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF η	1.37	*		2400	2.5	2.52	*	1.000-1.010	
Hexa	PCB-141	1.20e+07	1.28	y 43:58	0.97	619		*	2.5	*	1.000	0.996-1.005	
Hexa	PCB-137	3.64e+06	1.23	y 44:21	1.07	171		*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	3.71e+06	1.24	y 44:27	0.85	220		*	2.5	*	1.011	1.007-1.017	
Hexa	PCB-138/163/164	8.30e+07	1.27	y 44:49	1.23	3360		*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-158/160	1.04e+07	1.24	y 45:03	1.29	399		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	3.26e+06	1.18	y 45:18	0.92	175		*	2.5	*	1.011	1.007-1.017	
Hexa	PCB-166	3.16e+05	1.60	n 45:46	1.12	12.1	R	*	2.5	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.16	*		2400	2.5	2.70	*	0.995-1.005	
Hexa	PCB-128/162	1.48e+07	1.28	y 46:22	1.02	623		*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	4.24e+06	1.24	y 46:47	1.06	155		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	1.11e+07	1.27	y 48:04	1.18	391		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-157	2.56e+06	1.24	y 48:20	1.08	93.6		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.11	*		2400	2.5	2.92	*	0.995-1.005	
Hepta	PCB-188	6.91e+04	0.90	y 42:51	1.40	3.08		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-184	3.63e+04	1.00	y 43:18	1.24	1.84		*	2.5	*	1.011	1.006-1.016	
Hepta	PCB-179	5.20e+06	1.03	y 44:05	1.30	250		*	2.5	*	1.029	1.024-1.034	
Hepta	PCB-176	1.68e+06	1.02	y 44:33	1.36	77.2		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.28	*		1200	2.5	1.11	*	1.049-1.059	
Hepta	PCB-178	2.14e+06	1.05	y 45:39	0.94	143		*	2.5	*	1.065	1.061-1.071	
Hepta	PCB-175	5.45e+05	0.91	y 46:00	0.97	35.2		*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	1.51e+07	1.09	y 46:09	1.01	934		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	7.45e+06	1.07	y 46:28	1.08	431		*	2.5	*	1.084	1.080-1.090	
Hepta	PCB-185	1.39e+06	1.10	y 47:09	1.34	81.0		*	2.5	*	0.956	0.951-0.961	
Hepta	PCB-174	1.22e+07	1.07	y 47:30	1.34	712		*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.36	*		1200	2.5	1.29	*	0.961-0.971	
Hepta	PCB-177	6.59e+06	1.09	y 47:46	1.24	414		*	2.5	*	0.968	0.964-0.974	
Hepta	PCB-171	3.40e+06	1.12	y 48:04	1.31	202		*	2.5	*	0.974	0.970-0.980	
Hepta	PCB-173	2.52e+05	1.14	y 48:30	1.16	16.9		*	2.5	*	0.983	0.979-0.989	
Hepta	PCB-172	2.26e+06	1.04	y 48:57	1.22	144		*	2.5	*	0.992	0.988-0.998	
Hepta	PCB-192	*	*	n NotF η	1.53	*		1200	2.5	1.15	*	0.991-1.001	
Hepta	PCB-180	3.29e+07	1.05	y 49:21	1.43	1800		*	2.5	*	1.000	0.995-1.005	

Analyst: m1

Date: 12/30/14

Client ID: SC-MH-20-20141211-W
Lab ID: 1400948-04

Filename: 141226E1
GC Column ID: ZB-1

S:7 Acq:26-DEC-14 17:49:21
ICal: PCBVG8-6-20-14 wt/vol: 0.993

ConCal: ST141226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	1.77e+06	1.05	y 49:34	1.65	83.7		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	7.20e+05	0.97	y 49:49	1.67	33.6		*	2.5	*	1.010	1.004-1.014	
Hepta	PCB-170	1.30e+07	1.11	y 50:52	1.50	875		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	3.29e+06	1.03	y 51:03	2.02	165		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	6.43e+05	0.98	y 52:22	1.54	33.6		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	1.37e+06	0.95	y 48:16	1.04	94.1		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	9.80e+05	0.99	y 48:45	1.10	63.3		*	2.5	*	1.010	1.006-1.016	
Octa	PCB-204	*	*	n NotF η	0.99	*		1140	2.5	2.09	*	1.009-1.019	
Octa	PCB-197	2.49e+05	1.02	y 49:13	1.07	16.6		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	8.52e+05	0.95	y 50:06	1.02	59.6		*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	2.22e+05	0.98	y 51:27	0.74	21.3		*	2.5	*	1.066	1.058-1.068	
Octa	PCB-199	6.04e+06	0.94	y 51:34	0.73	591		*	2.5	*	1.069	1.060-1.070	
Octa	PCB-196/203	6.91e+06	0.97	y 51:50	0.77	637		*	2.5	*	1.074	1.066-1.076	
Octa	PCB-195	2.47e+06	0.89	y 53:01	1.20	163		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	7.48e+06	0.96	y 53:53	1.25	475		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	4.35e+05	0.93	y 54:10	1.41	24.4		*	2.5	*	1.005	1.001-1.011	
Nona	PCB-208	1.45e+06	1.41	y 53:09	0.96	94.3		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	6.14e+05	1.45	y 53:28	0.92	41.9		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	3.74e+06	1.36	y 55:31	1.03	360		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	7.42e+05	1.14	y 56:54	1.18	53.5		*	2.5	*	1.000	0.995-1.005	

Analyst: MJ

Date: 12/30/14

Client ID: SC-MH-20-20141211-W
Lab ID: 1400948-04

Filename: 141226E1 S:7 Acq:26-DEC-14 17:49:21
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 0.9930 EndCAL: NA

ConCal: ST141226E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	2.71e+05	2.71 y	16:08	1.22	8.07217	
Total Di-PCB	1.51e+07	1.77 y	20:05	1.21	407.246	
Total Tri-PCB	1.61e+07	1.19 y	24:13	1.16	666.981	
Total Tri-PCB	1.01e+08	1.11 y	27:55	1.35	2340.48	Sum:3007.46
Total Tetra-PCB	2.55e+08	0.80 y	27:58	1.17	8894.28	
Total Penta-PCB	2.87e+08	1.58 y	33:55	1.21	15232.0	
Total Penta-PCB	4.72e+07	1.66 y	42:13	1.26	1593.74	Sum:16825.8
Total Hexa-PCB	3.66e+07	1.29 y	38:19	0.92	3374.50	
Total Hexa-PCB	2.39e+08	1.26 y	42:08	1.08	9951.37	Sum:13325.9
Total Hepta-PCB	1.11e+08	0.90 y	42:51	1.27	6431.44	
Total Octa-PCB	1.66e+07	0.95 y	48:16	0.92	1483.01	
Total Octa-PCB	1.04e+07	0.89 y	53:01	1.29	662.597	Sum:2145.61
Total Nona-PCB	5.80e+06	1.41 y	53:09	0.96	495.971	
Total Deca-PCB	7.42e+05	1.14 y	56:54	1.18	53.5270	

Total PCB Conc:51607.3617210

Integrations

by
Analyst: MS

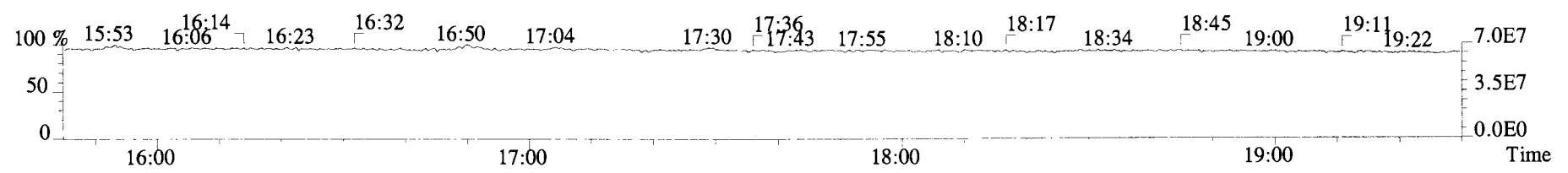
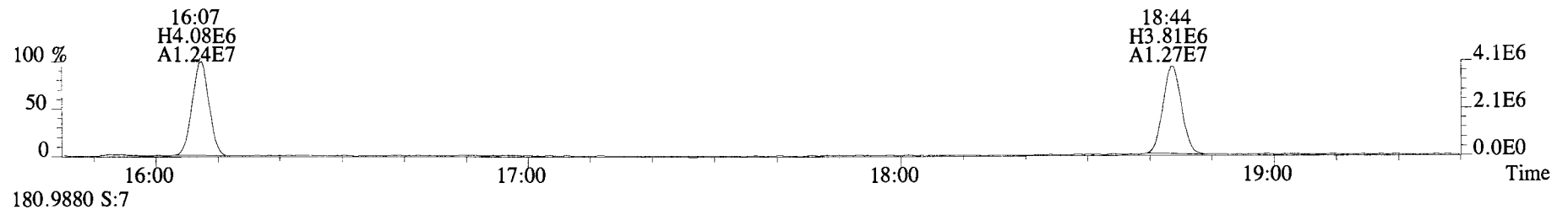
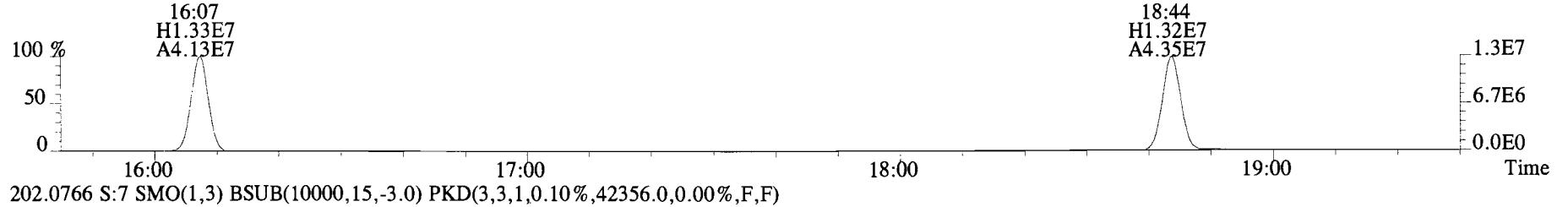
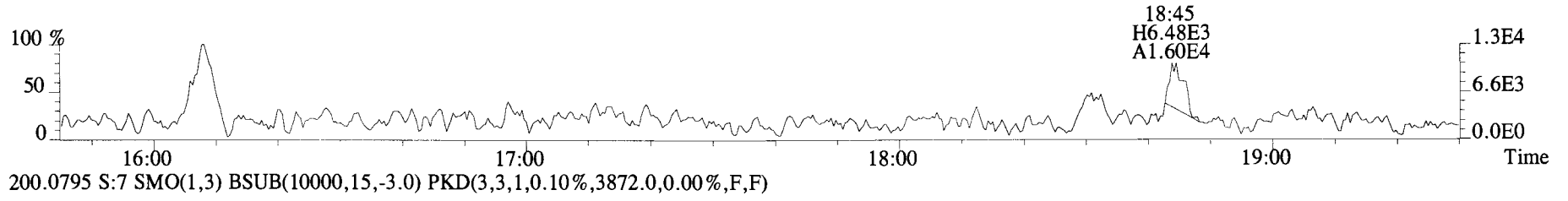
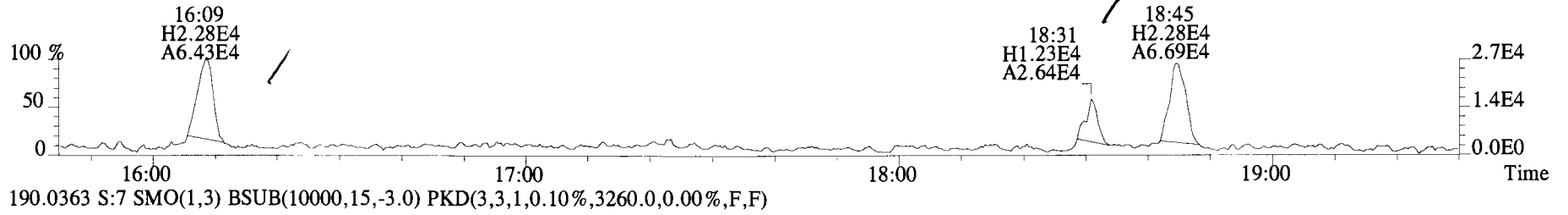
Date: 12/30/14

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.37e+07	3.34	y	0.89	16:07	0.621	0.622-0.628	1760	87.5											
13C-PCB-3	5.63e+07	3.42	y	0.93	18:44	0.722	0.721-0.729	1770	88.1		13C-PCB-79	5.64e+07	0.84	y	1.01	37:49	1.029	1.023-1.033	2060	102
13C-PCB-4	3.36e+07	1.60	y	0.55	20:03	0.773	0.772-0.780	1790	89.1		13C-PCB-178	1.97e+07	0.47	y	0.63	45:38	0.985	0.979-0.989	1970	97.6
13C-PCB-9	5.27e+07	1.61	y	0.83	21:51	0.843	0.840-0.848	1870	92.6											
13C-PCB-11	6.89e+07	1.55	y	0.94	25:13	0.972	0.968-0.978	2150	107											
13C-PCB-32	5.19e+07	1.13	y	0.81	27:07	1.046	1.041-1.051	1860	92.5											
13C-PCB-19	3.01e+07	1.12	y	0.53	24:12	0.933	0.929-0.939	1650	82.0		13C-PCB-79	5.64e+07	0.84	y	1.20	37:49	0.969	0.963-0.973	1710	85.0
13C-PCB-28	6.41e+07	1.09	y	0.89	29:05	1.003	0.999-1.009	2220	110		13C-PCB-178	1.97e+07	0.47	y	0.94	45:38	0.925	0.920-0.930	1640	81.4
13C-PCB-52	4.04e+07	0.81	y	0.71	31:30	0.857	0.853-0.861	2090	104											
13C-PCB-54	4.22e+07	0.83	y	0.85	27:57	0.761	0.758-0.766	1820	90.4											
13C-PCB-37	6.19e+07	1.11	y	0.83	32:57	1.137	1.131-1.143	2290	114											
13C-PCB-47	4.24e+07	0.82	y	0.74	32:00	0.871	0.867-0.875	2090	104											
13C-PCB-81	5.53e+07	0.84	y	0.84	39:02	1.062	1.057-1.067	2420	120											
13C-PCB-70	5.96e+07	0.83	y	0.94	35:31	0.966	0.961-0.971	2310	115											
13C-PCB-80	6.04e+07	0.83	y	0.96	35:56	0.978	0.972-0.982	2300	114											
13C-PCB-104	3.06e+07	1.61	y	1.00	32:39	0.832	0.829-0.837	1910	95.1											
13C-PCB-101	2.79e+07	1.65	y	0.79	37:30	0.956	0.951-0.961	2210	110											
13C-PCB-95	2.48e+07	1.62	y	0.74	35:49	0.913	0.908-0.918	2080	103											
13C-PCB-77	5.81e+07	0.84	y	0.89	39:38	1.078	1.073-1.083	2380	118											
13C-PCB-114	4.56e+07	1.67	y	1.21	42:12	0.911	0.905-0.915	2380	118		13C-PCB-15	6.90e+07	1.59	y	1.00	25:56	2010			
13C-PCB-118	3.78e+07	1.57	y	0.98	41:33	1.059	1.054-1.064	2390	119		13C-PCB-31	6.55e+07	1.10	y	1.00	28:59	2010			
13C-PCB-123	3.57e+07	1.62	y	0.95	41:22	1.054	1.049-1.059	2340	116		13C-PCB-60	5.50e+07	0.85	y	1.00	36:45	2010			
13C-PCB-97	2.59e+07	1.59	y	0.69	38:48	0.989	0.984-0.994	2340	116		13C-PCB-111	3.23e+07	1.63	y	1.00	39:14	2010			
13C-PCB-127	5.19e+07	1.66	y	1.34	43:24	0.937	0.931-0.941	2430	121		13C-PCB-128	3.20e+07	1.33	y	1.00	46:20	2010			
13C-PCB-105	4.66e+07	1.65	y	1.24	43:04	0.929	0.924-0.934	2370	117		13C-PCB-205	2.69e+07	0.93	y	1.00	54:10	2010			
13C-PCB-141	4.01e+07	1.33	y	1.07	43:57	0.949	0.943-0.953	2360	117											
13C-PCB-153	4.25e+07	1.36	y	1.11	43:13	0.933	0.927-0.937	2400	119											
13C-PCB-155	2.56e+07	1.31	y	0.83	37:02	0.944	0.939-0.949	1920	95.3											
13C-PCB-126	4.31e+07	1.66	y	1.16	45:18	0.978	0.972-0.982	2330	116											
13C-PCB-167	5.17e+07	1.32	y	1.32	46:46	1.009	1.004-1.014	2470	122											
13C-PCB-156	4.83e+07	1.31	y	1.24	48:03	1.037	1.032-1.042	2440	121											
13C-PCB-138	4.05e+07	1.36	y	1.04	44:48	0.967	0.961-0.971	2440	121											
13C-PCB-159	4.69e+07	1.34	y	1.20	46:05	0.995	0.989-0.999	2460	122											
13C-PCB-157	5.09e+07	1.31	y	1.31	48:19	1.043	1.037-1.047	2440	121											
13C-PCB-180	2.58e+07	0.46	y	0.67	49:20	1.065	1.059-1.069	2410	120											
13C-PCB-188	3.22e+07	0.46	y	0.94	42:51	0.925	0.919-0.929	2160	107											
13C-PCB-169	4.38e+07	1.32	y	1.22	50:29	1.090	1.082-1.092	2270	113											
13C-PCB-170	1.99e+07	0.47	y	0.54	50:51	1.097	1.089-1.101	2340	116											
13C-PCB-202	2.82e+07	0.93	y	0.83	48:15	1.041	1.036-1.046	2130	106											
13C-PCB-189	2.50e+07	0.46	y	0.72	52:22	1.130	1.120-1.132	2200	109											
13C-PCB-208	3.22e+07	0.77	y	1.12	53:09	0.981	0.976-0.986	2150	107											
13C-PCB-194	2.54e+07	0.95	y	0.81	53:53	0.995	0.990-1.000	2350	117											
13C-PCB-206	2.03e+07	0.79	y	0.66	55:30	1.025	1.021-1.031	2320	115											
13C-PCB-209	2.38e+07	1.22	y	0.61	56:53	1.050	1.044-1.054	2900	144											

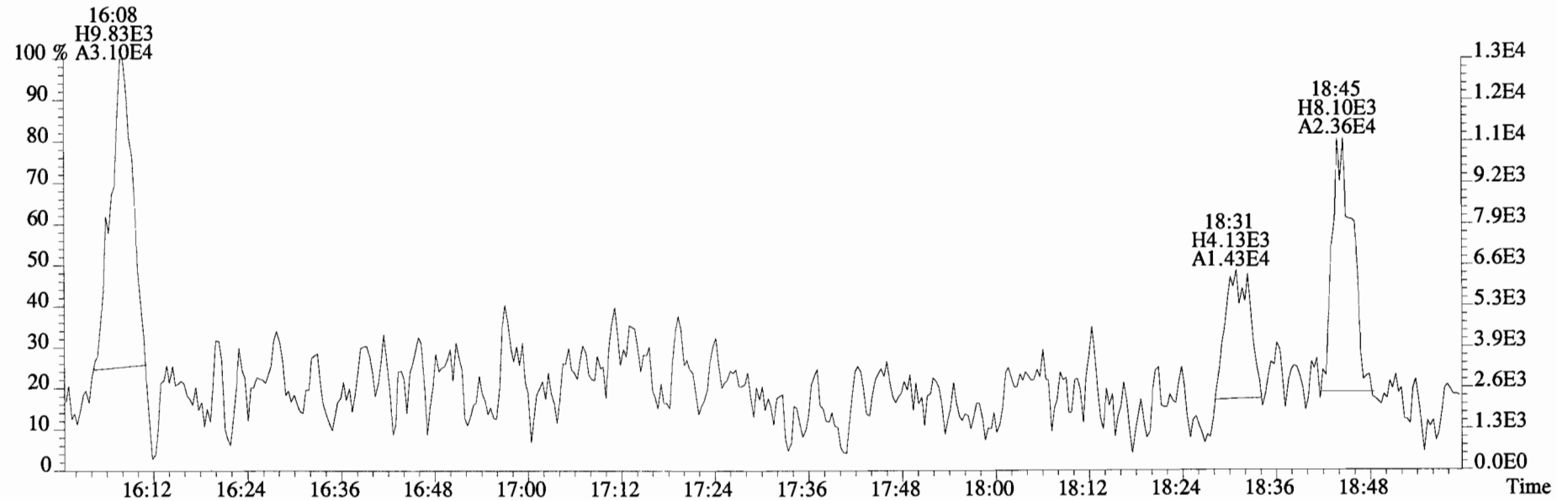
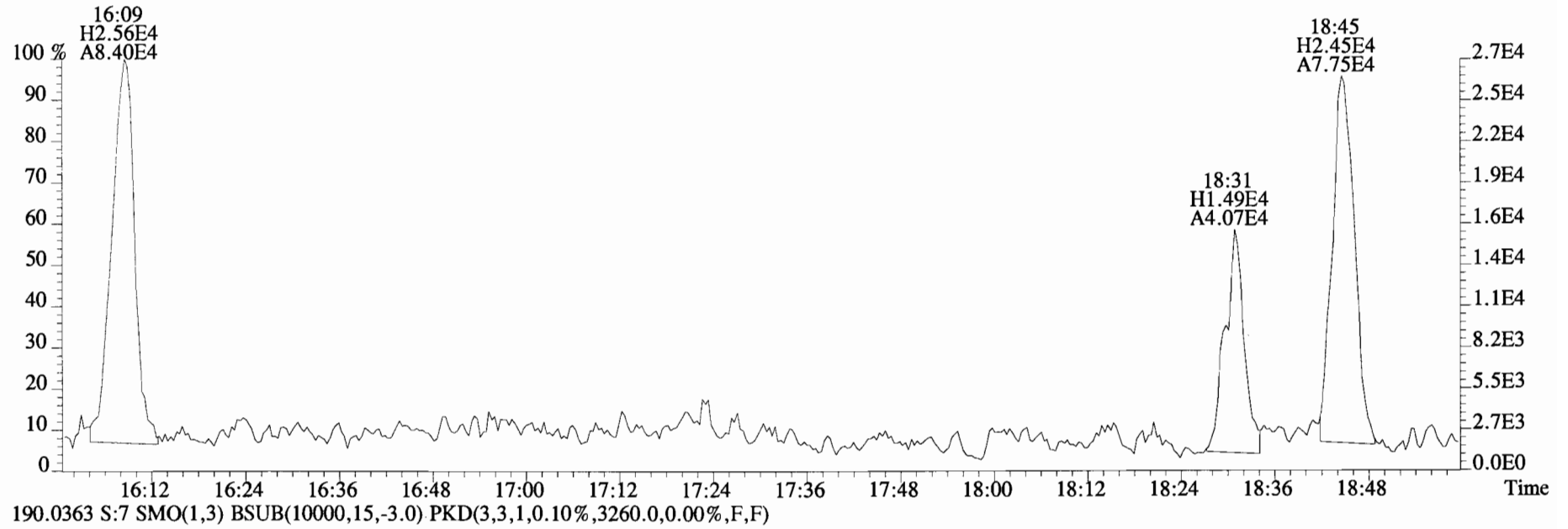
Analyst: MM

Date: 12/30/14

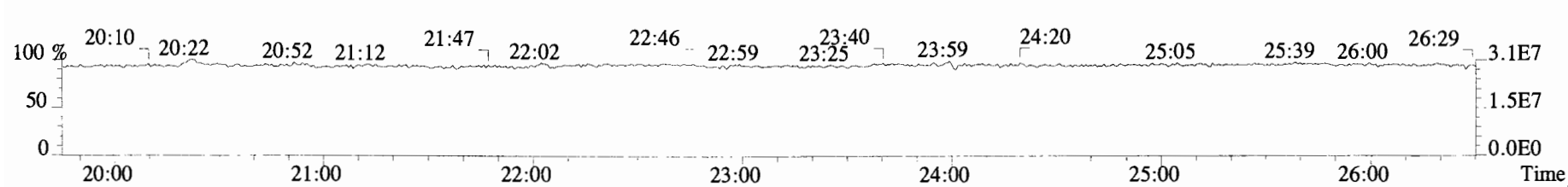
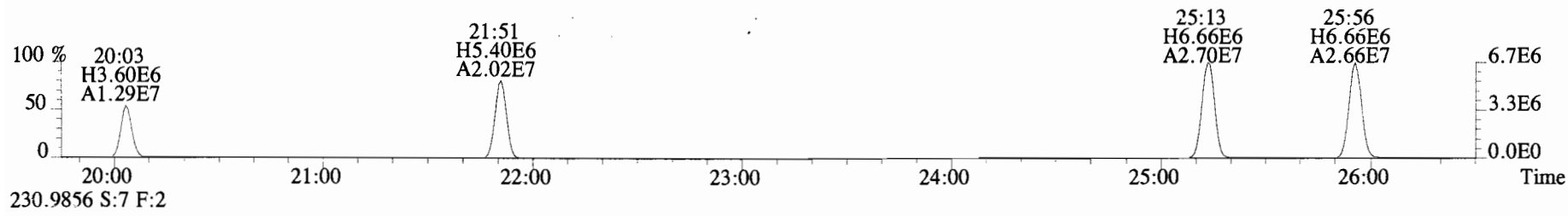
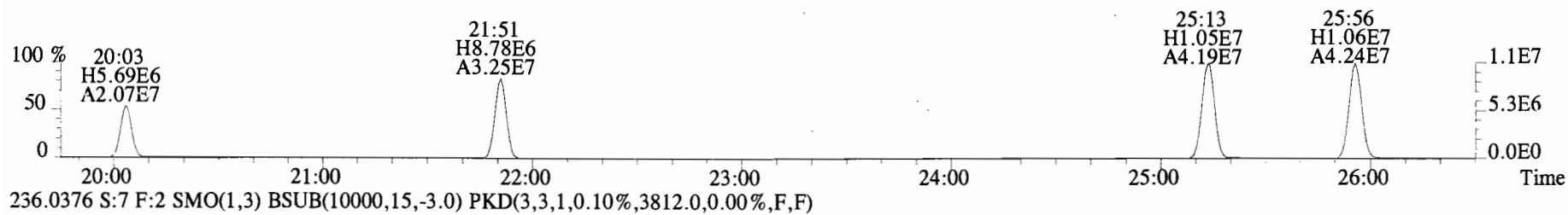
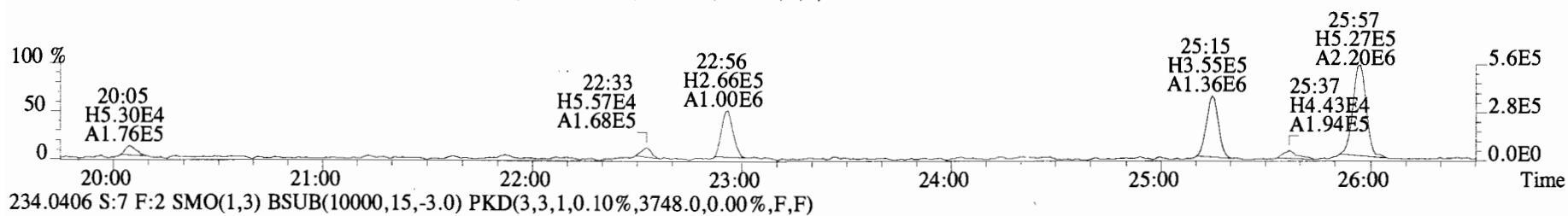
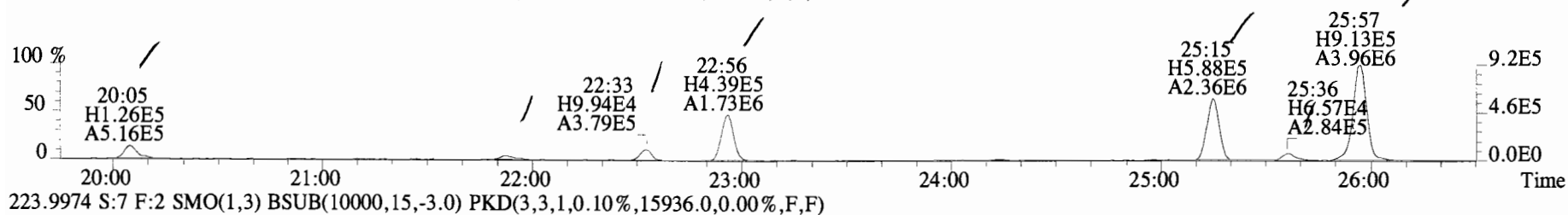
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
188.0393 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2912.0,0.00%,F,F)



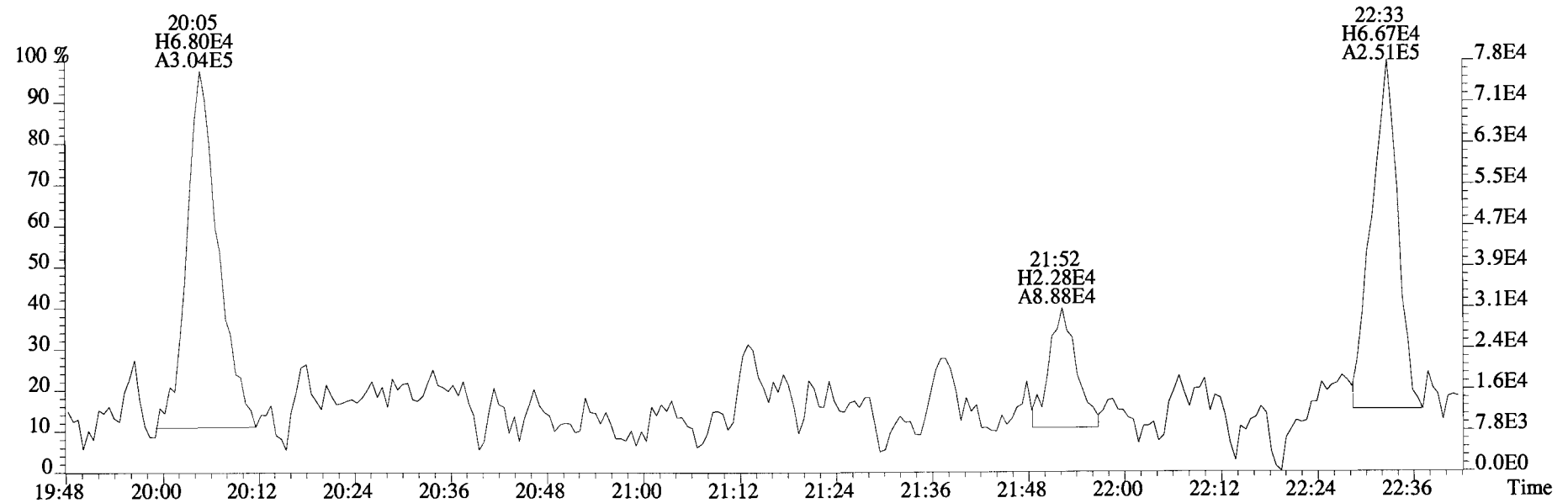
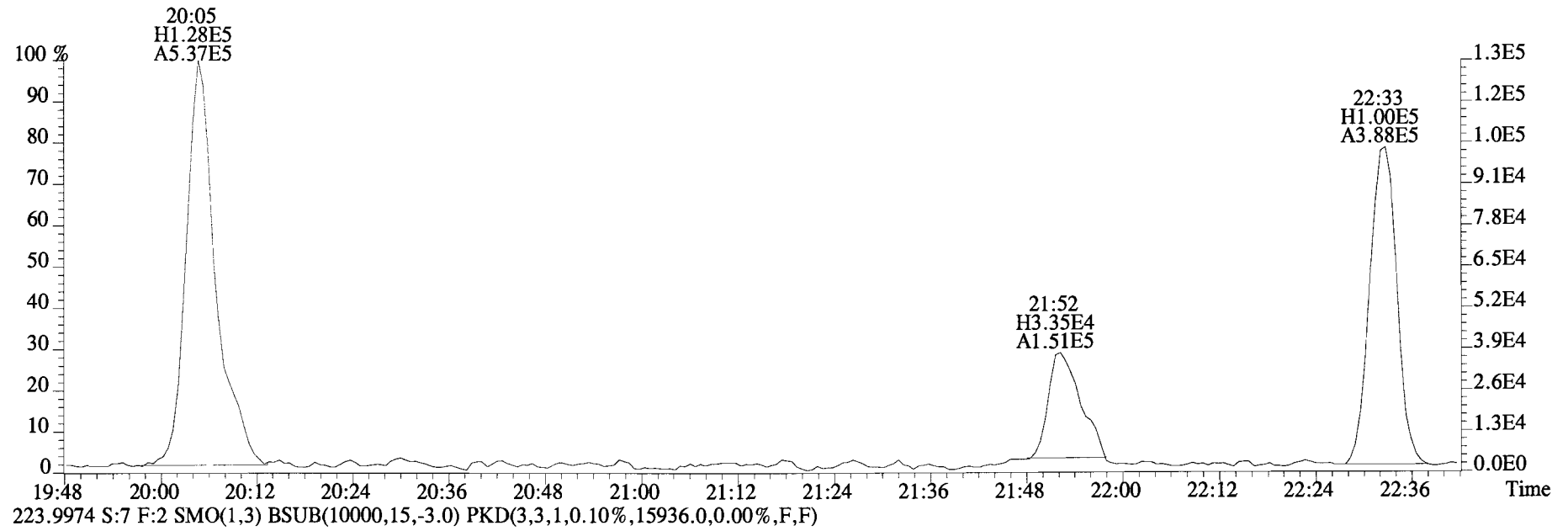
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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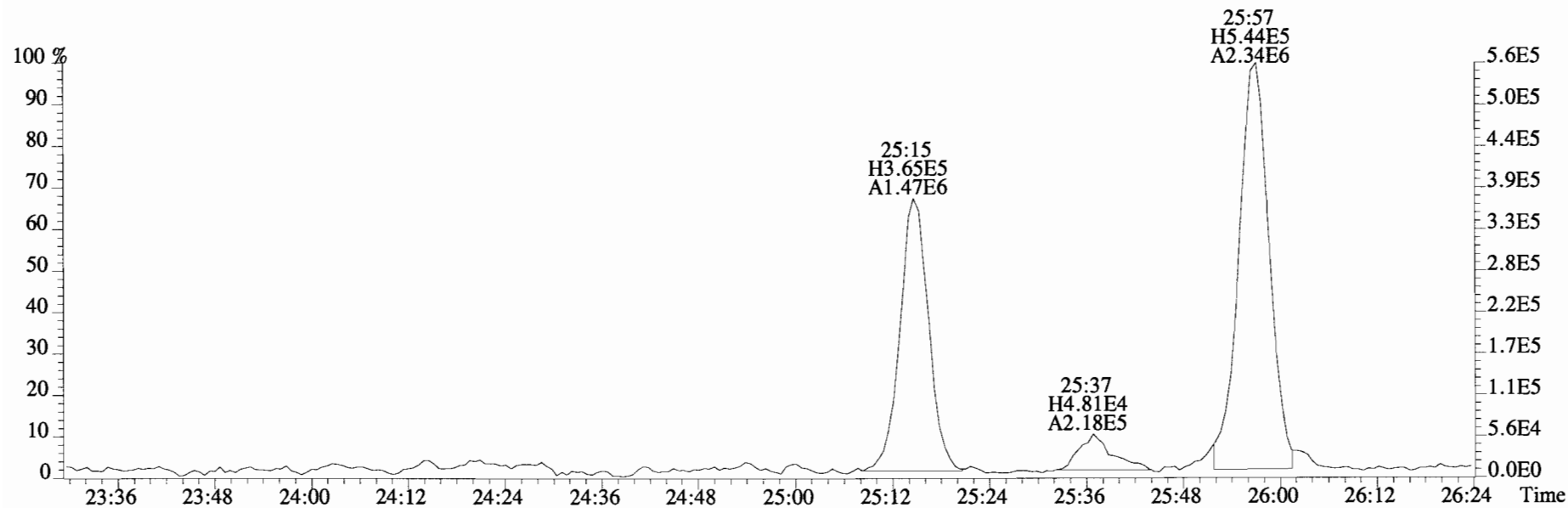
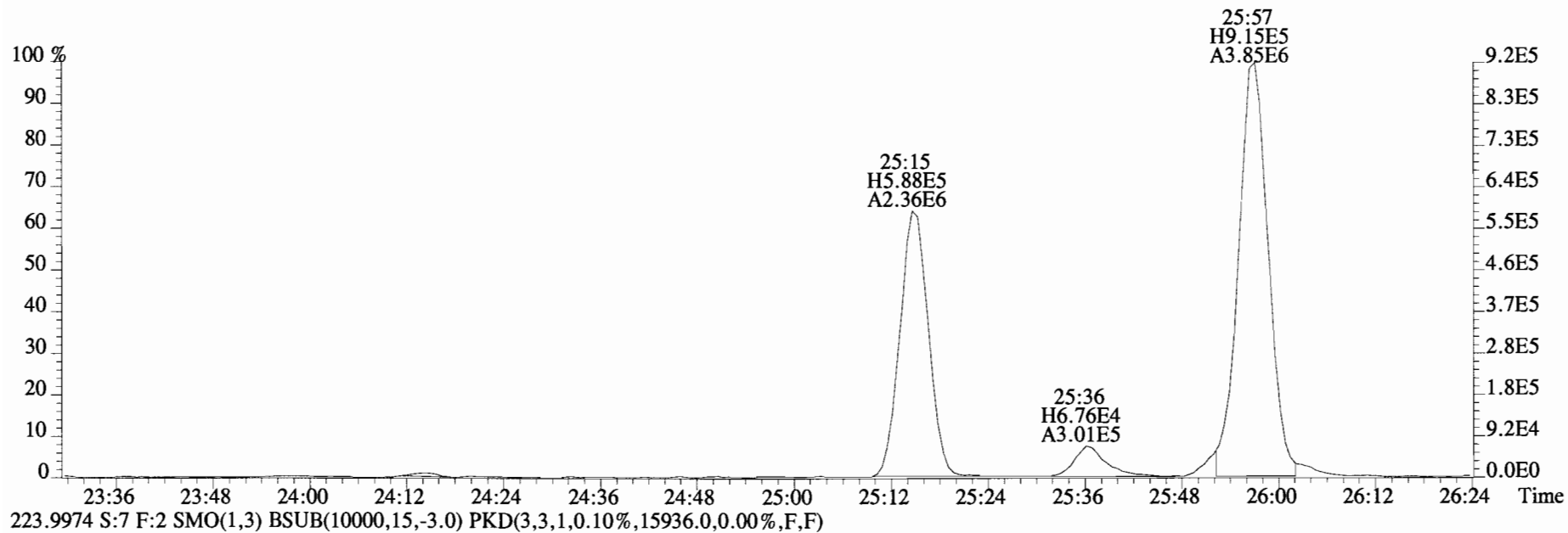
File:141226E1 #1-757 Acq:26-DEC-2014 17:49:21 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File:Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
 222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



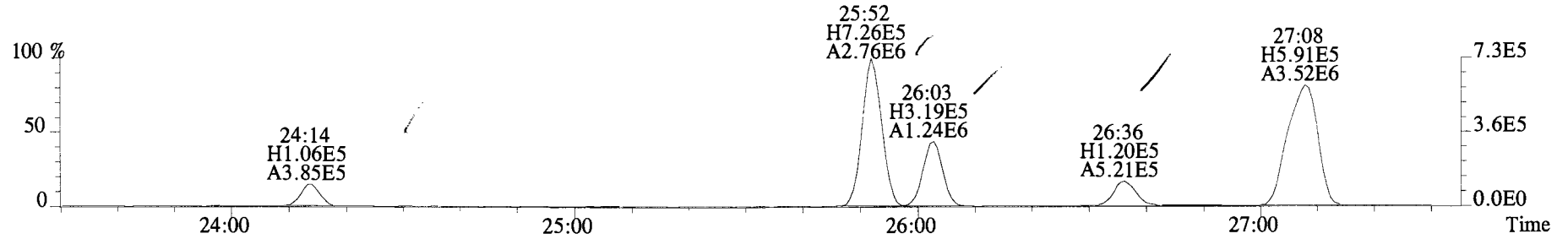
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



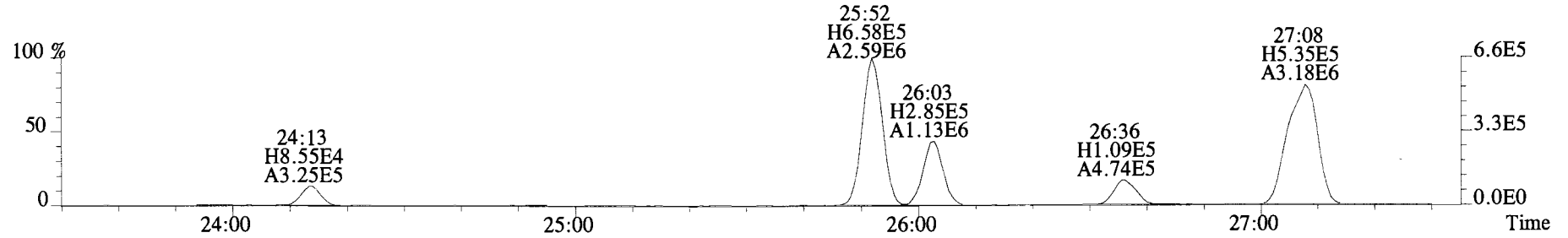
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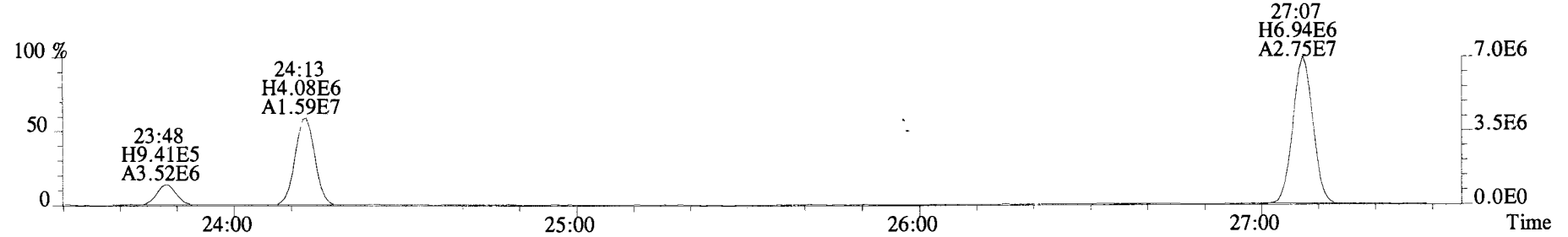
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2860.0,0.00%,F,F)



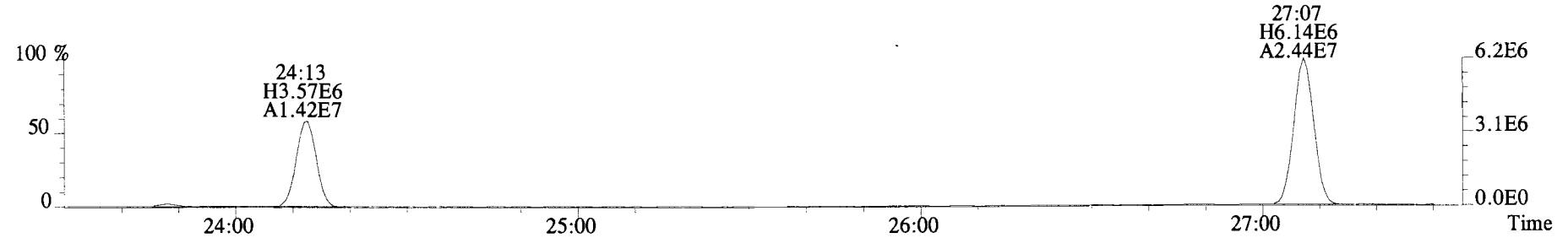
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



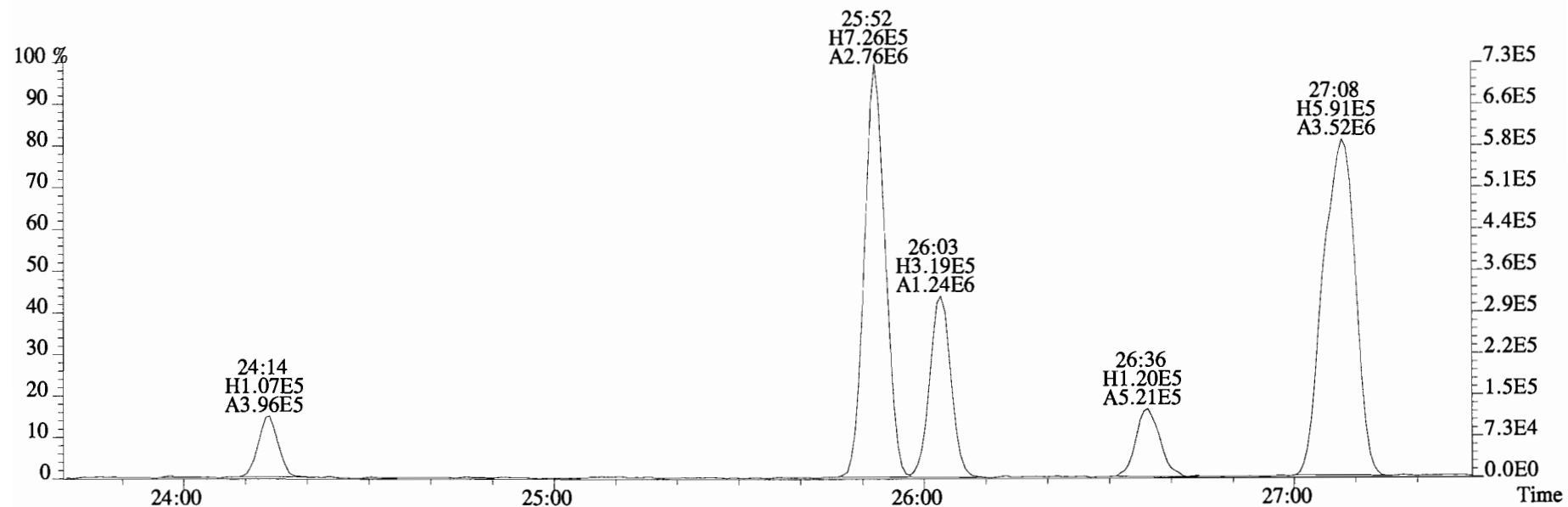
268.0016 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34660.0,0.00%,F,F)



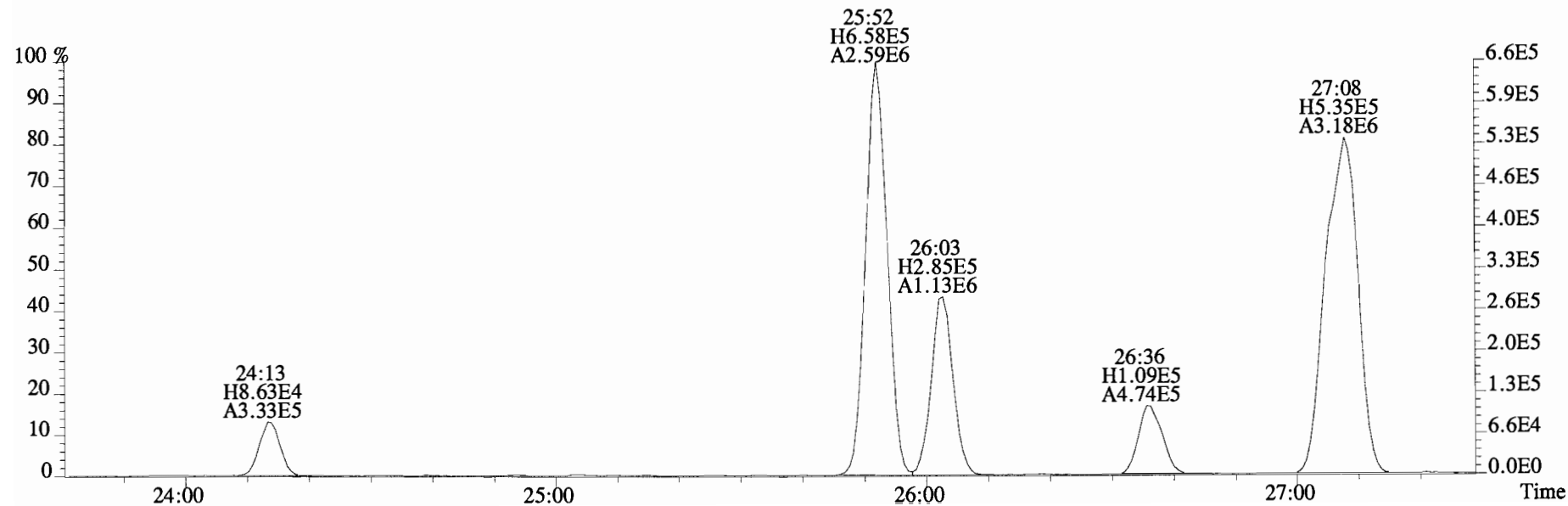
269.9986 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20308.0,0.00%,F,F)



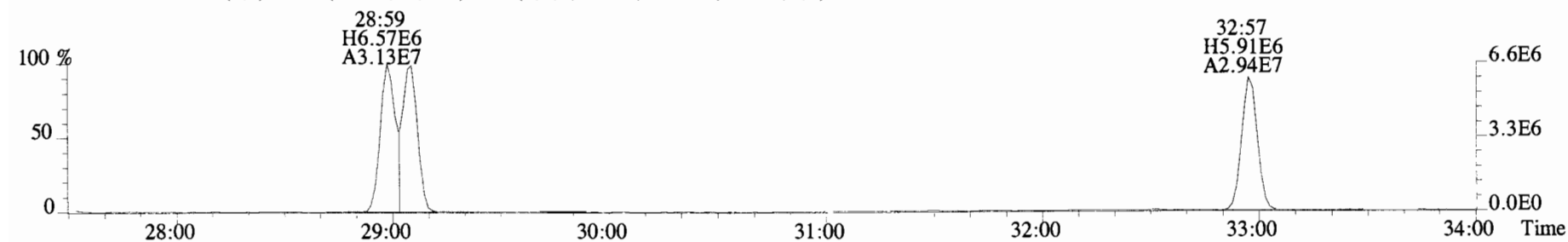
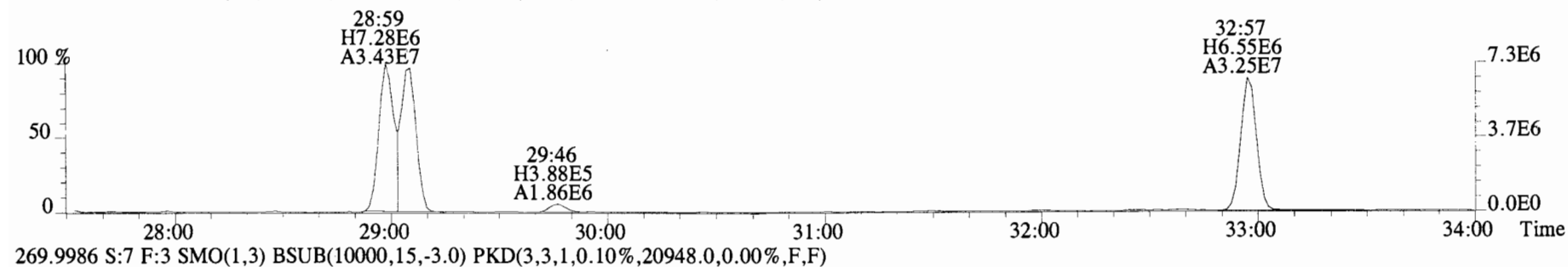
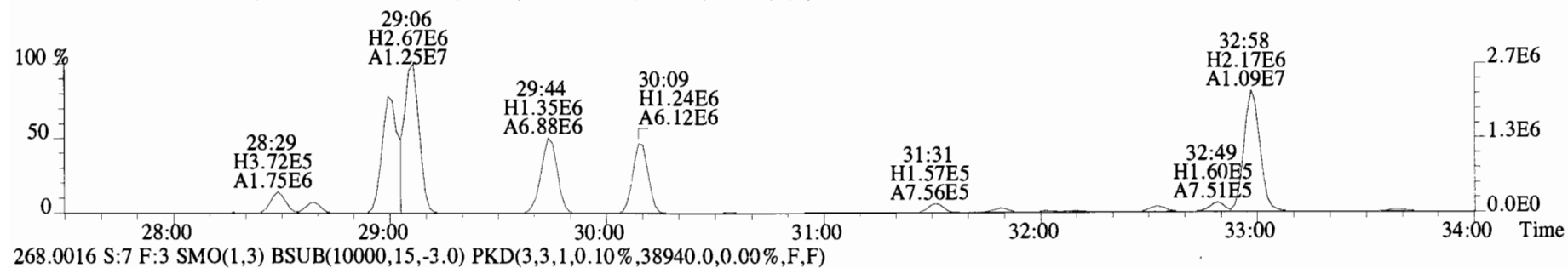
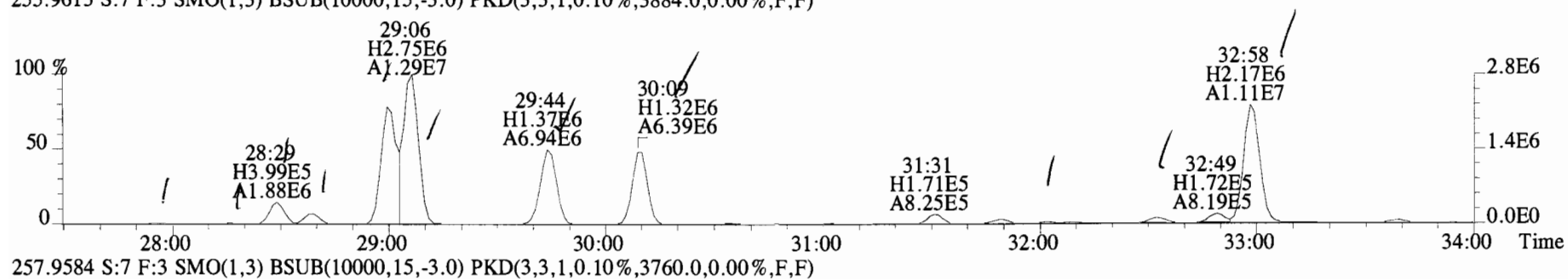
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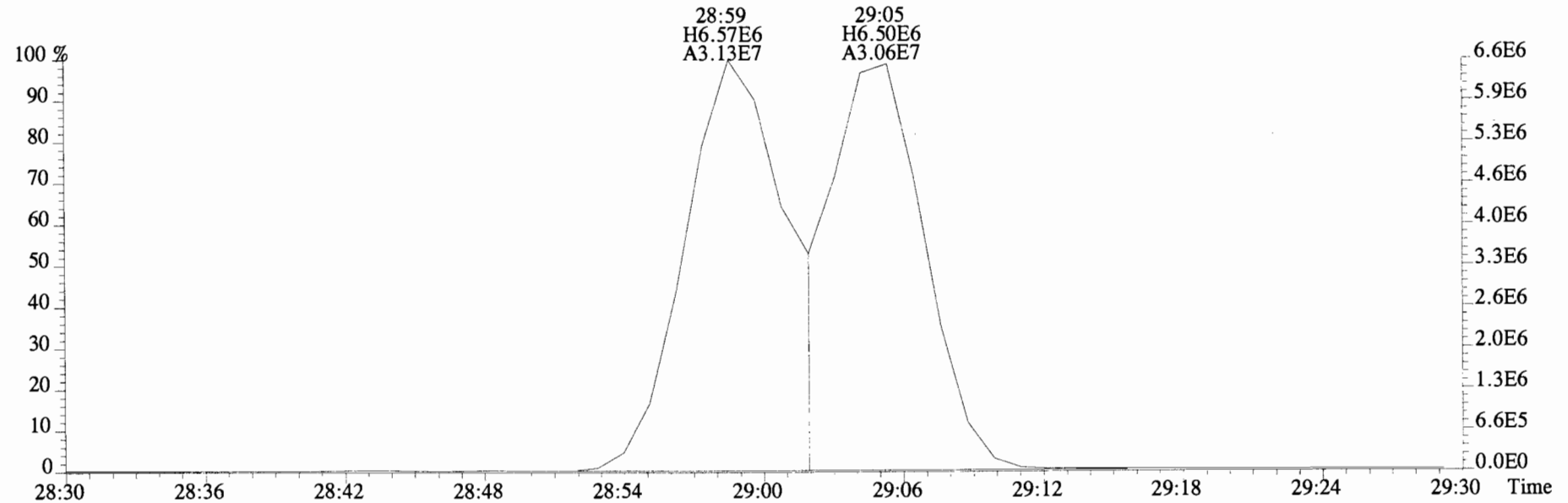
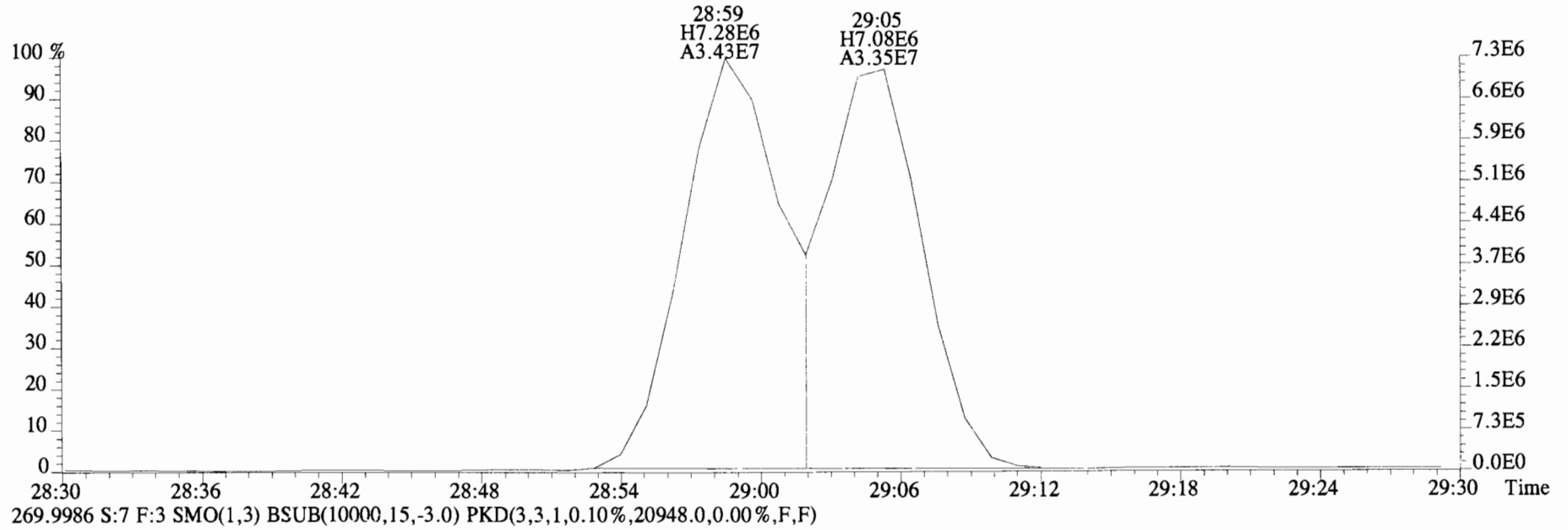
257.9584 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



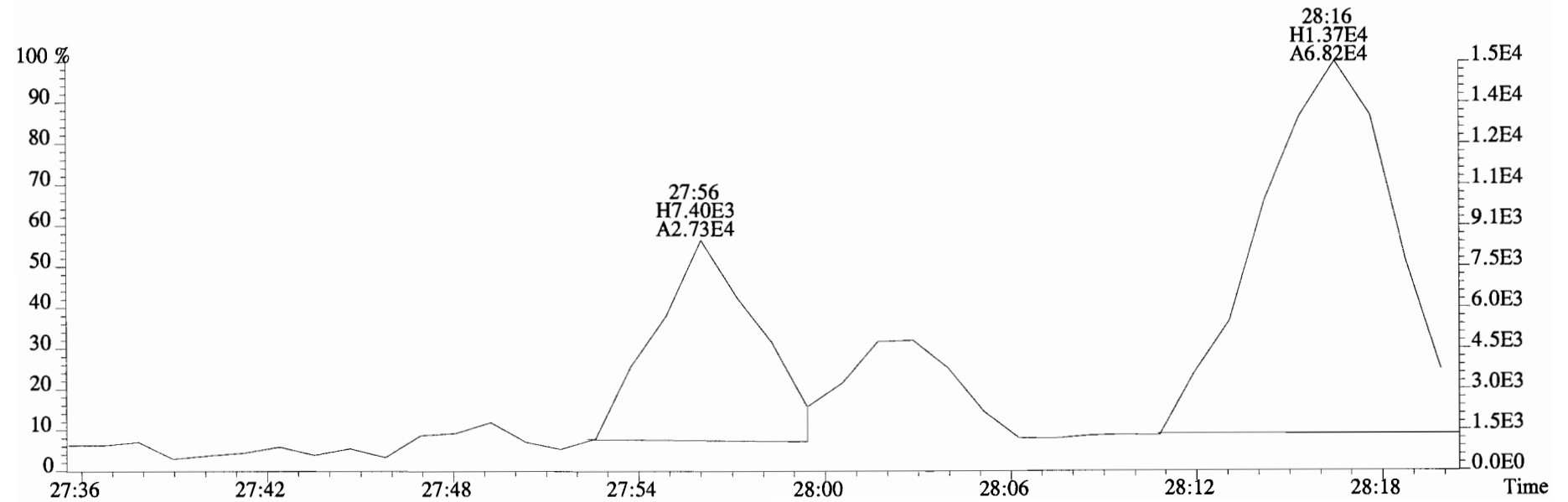
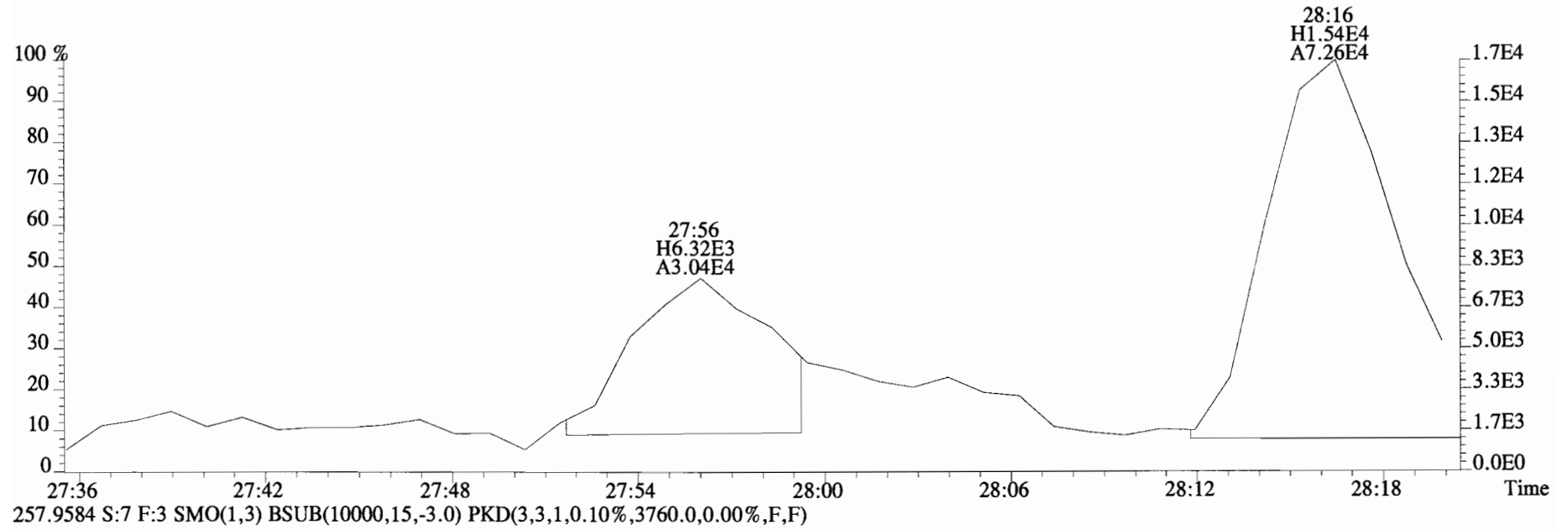
File:141226E1 #1-761 Acq:26-DEC-2014 17:49:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3884.0,0.00%,F,F)



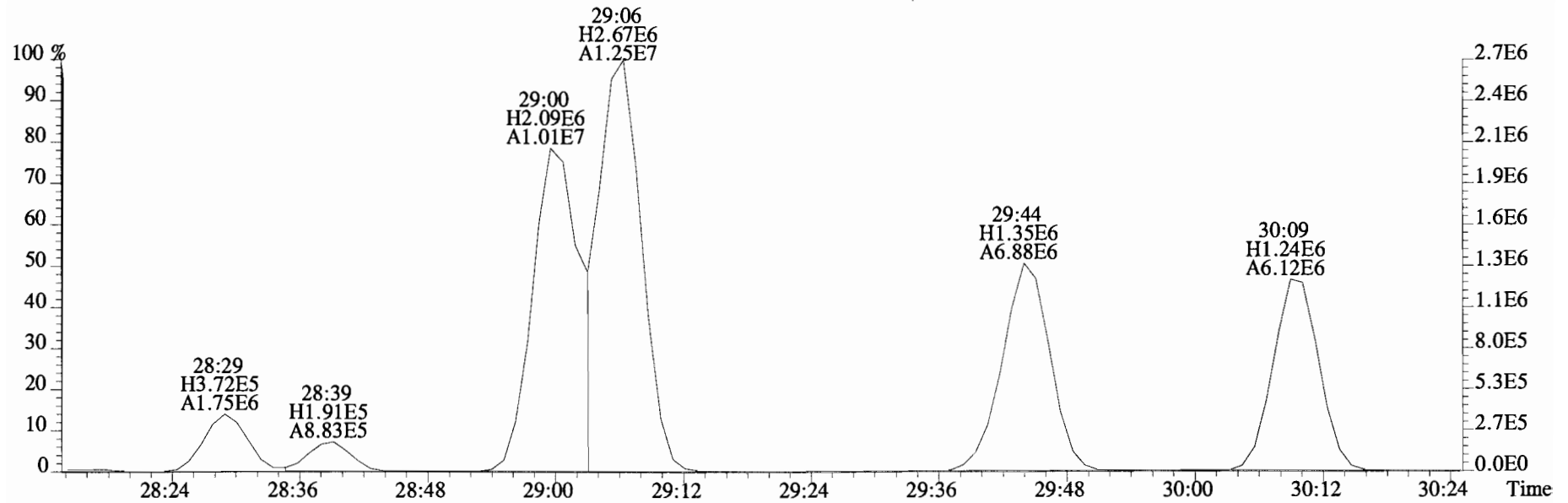
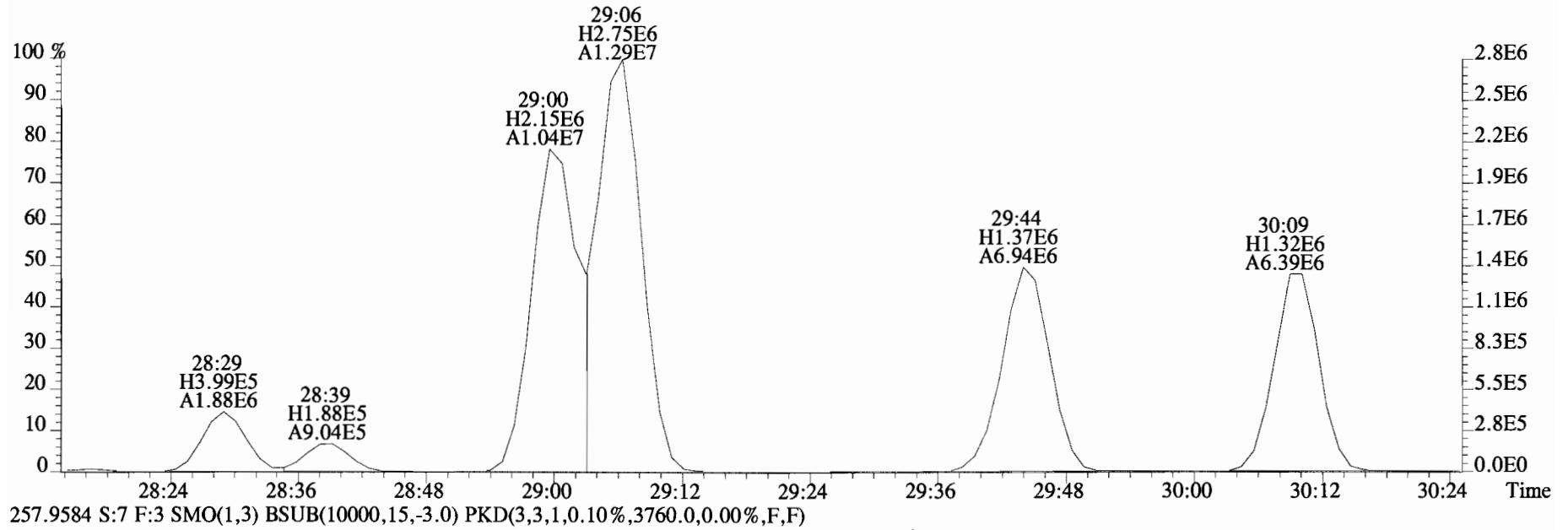
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268.0016 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38940.0,0.00%,F,F)



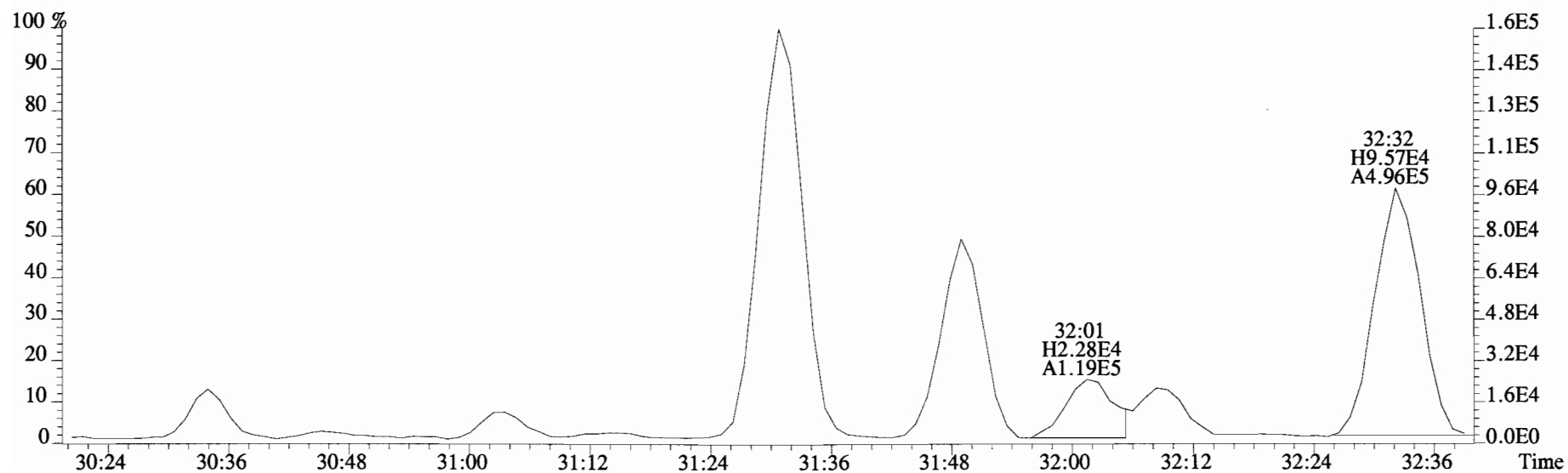
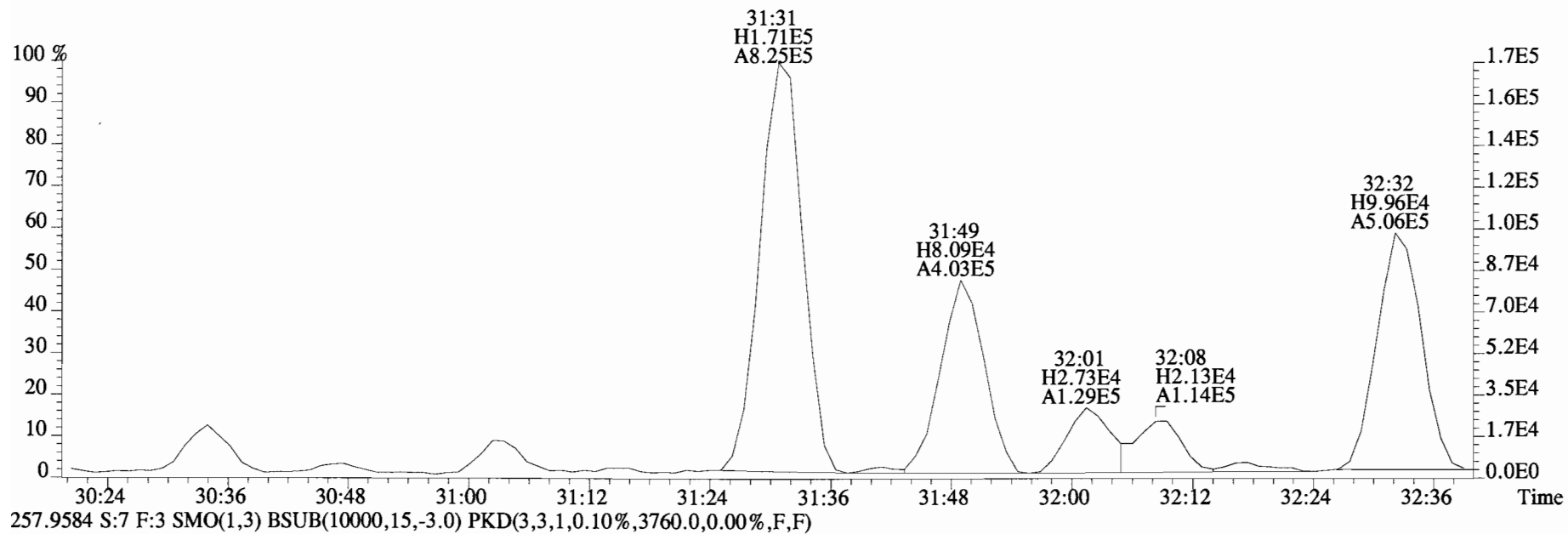
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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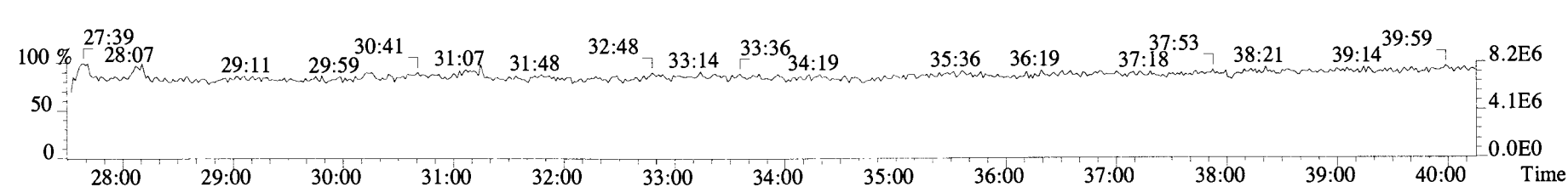
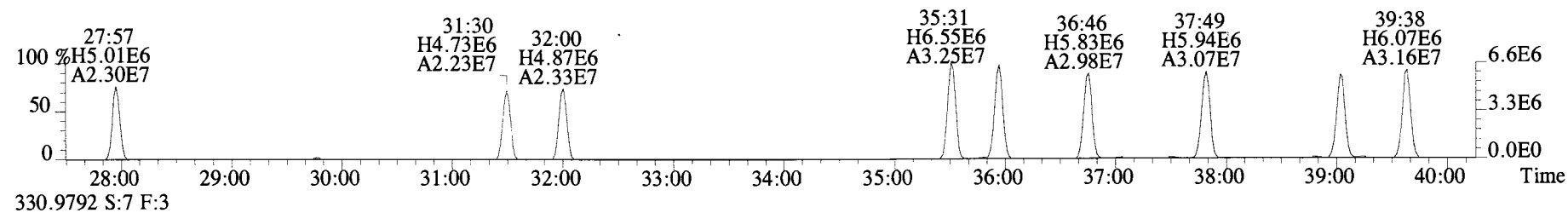
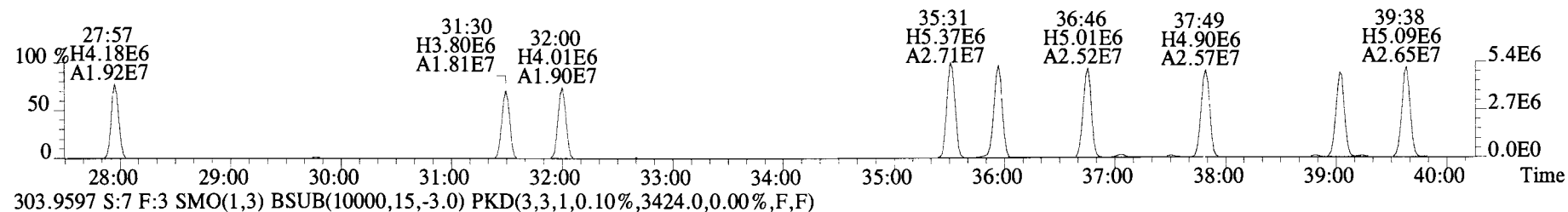
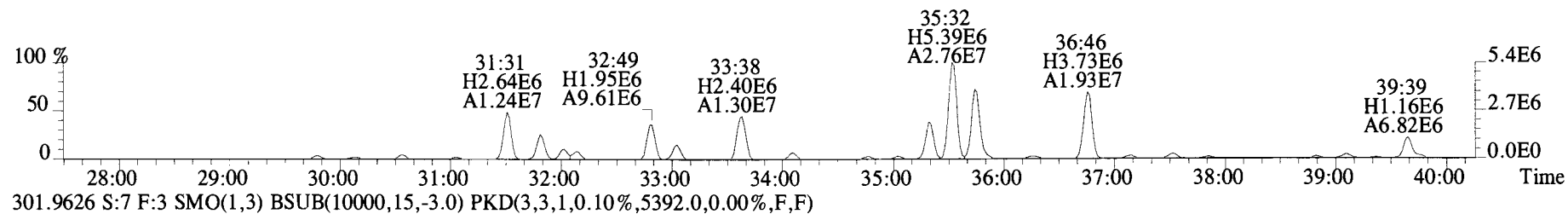
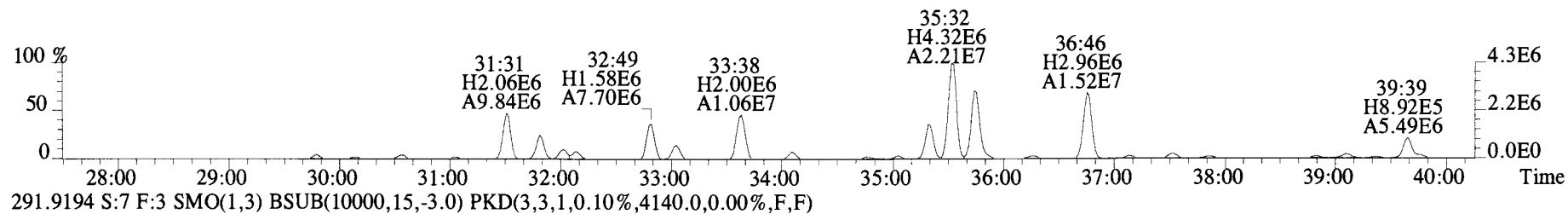
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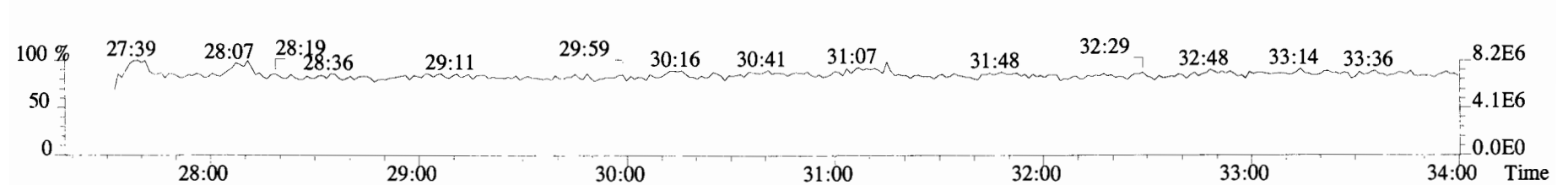
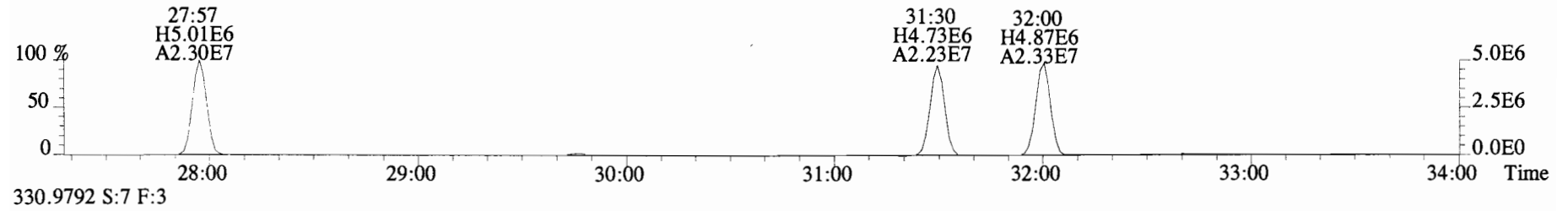
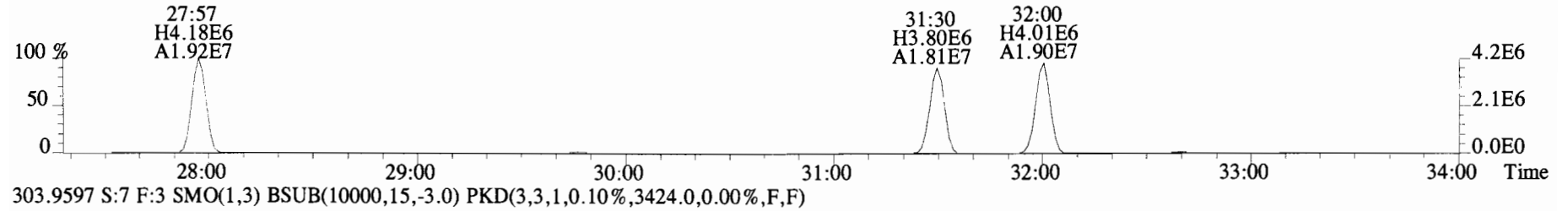
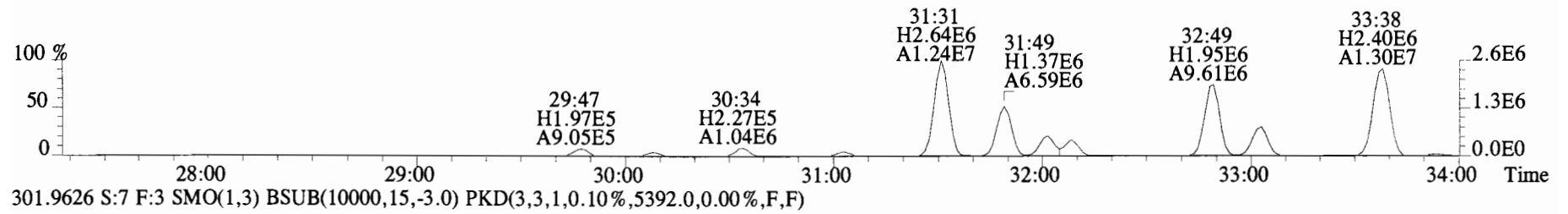
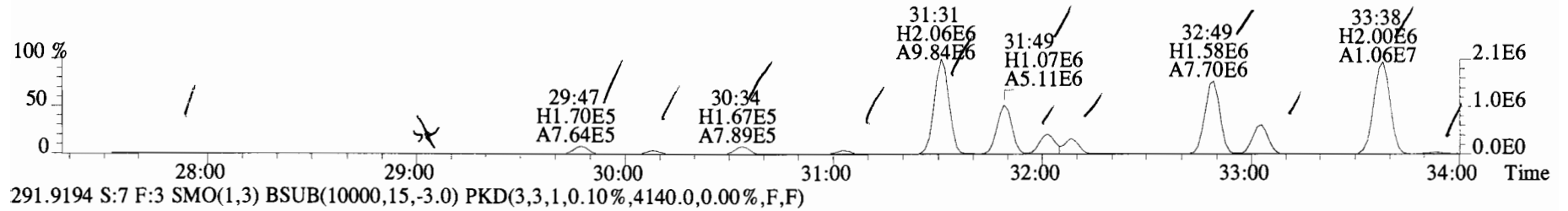
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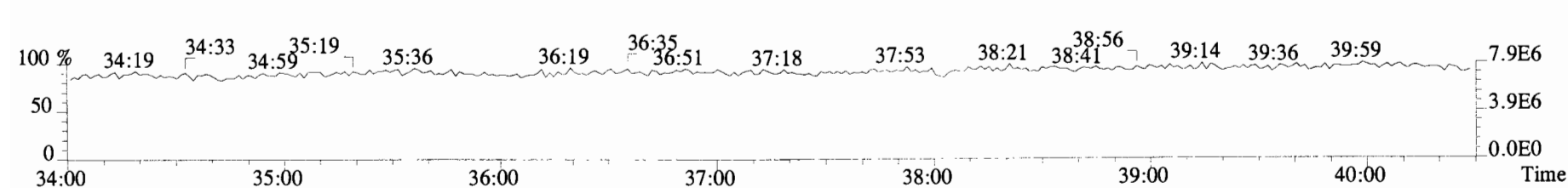
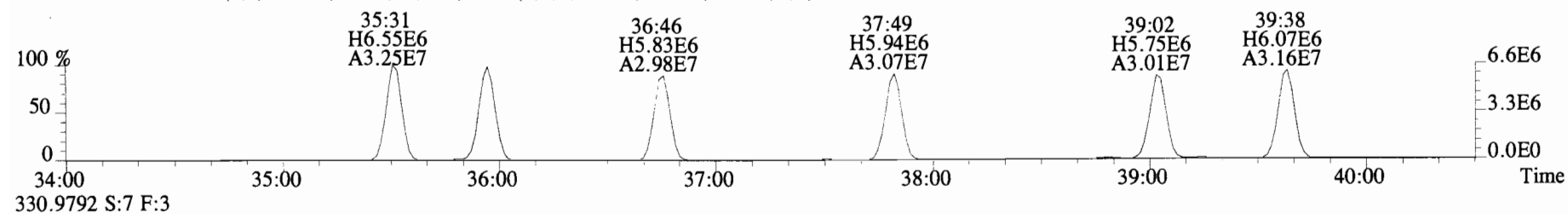
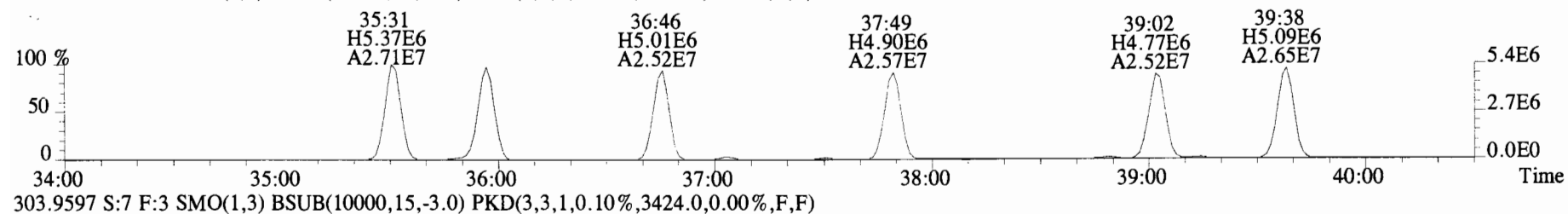
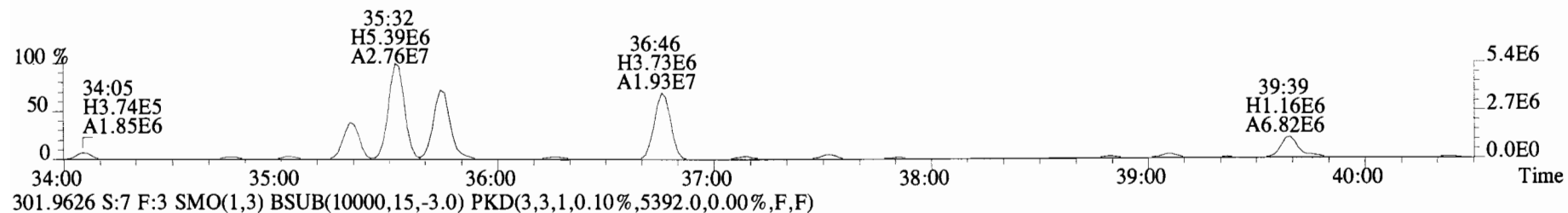
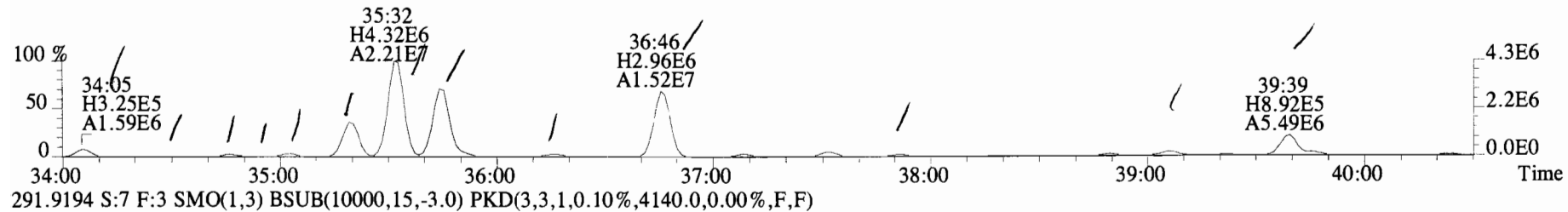
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289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3480.0,0.00%,F,F)



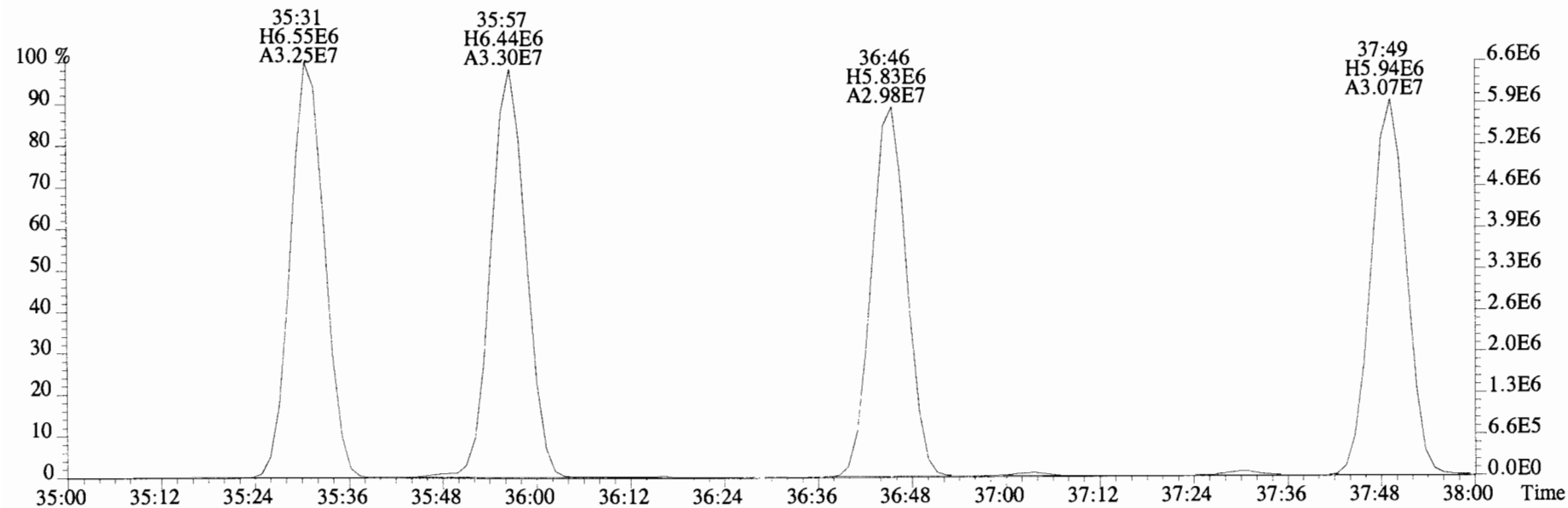
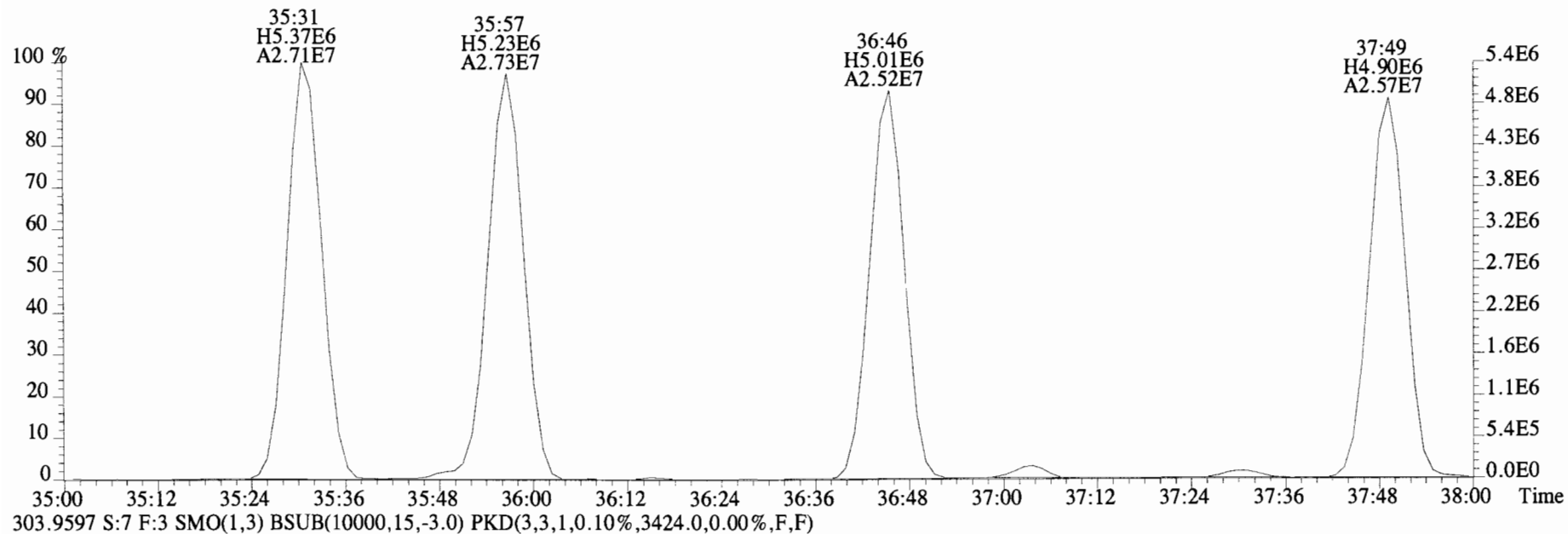
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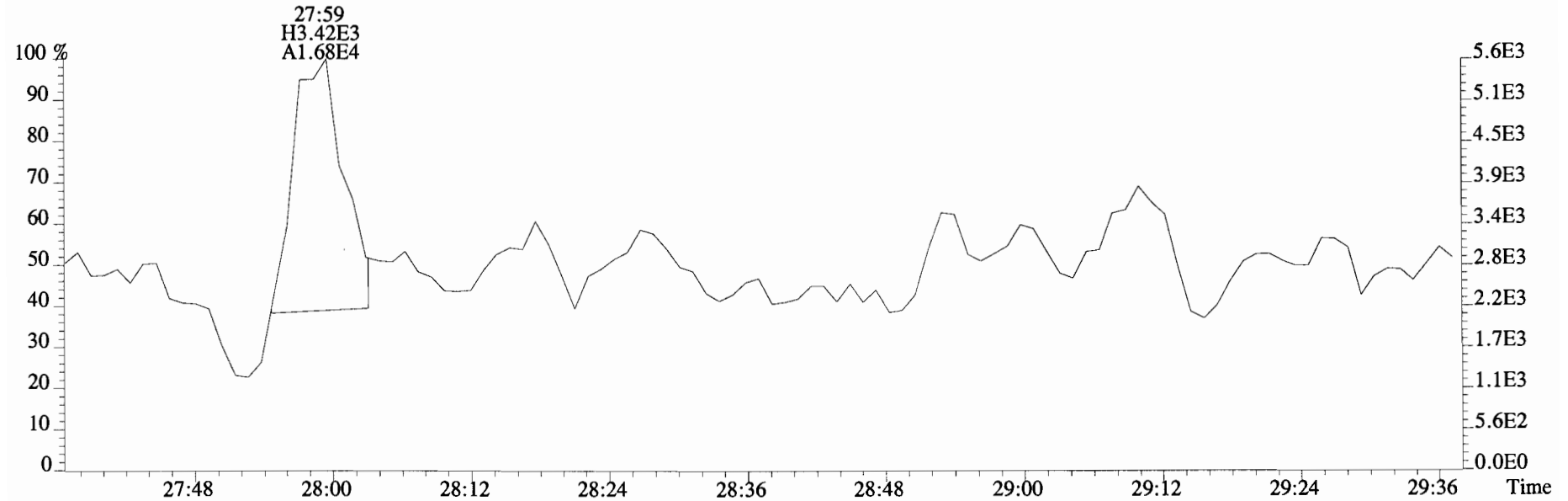
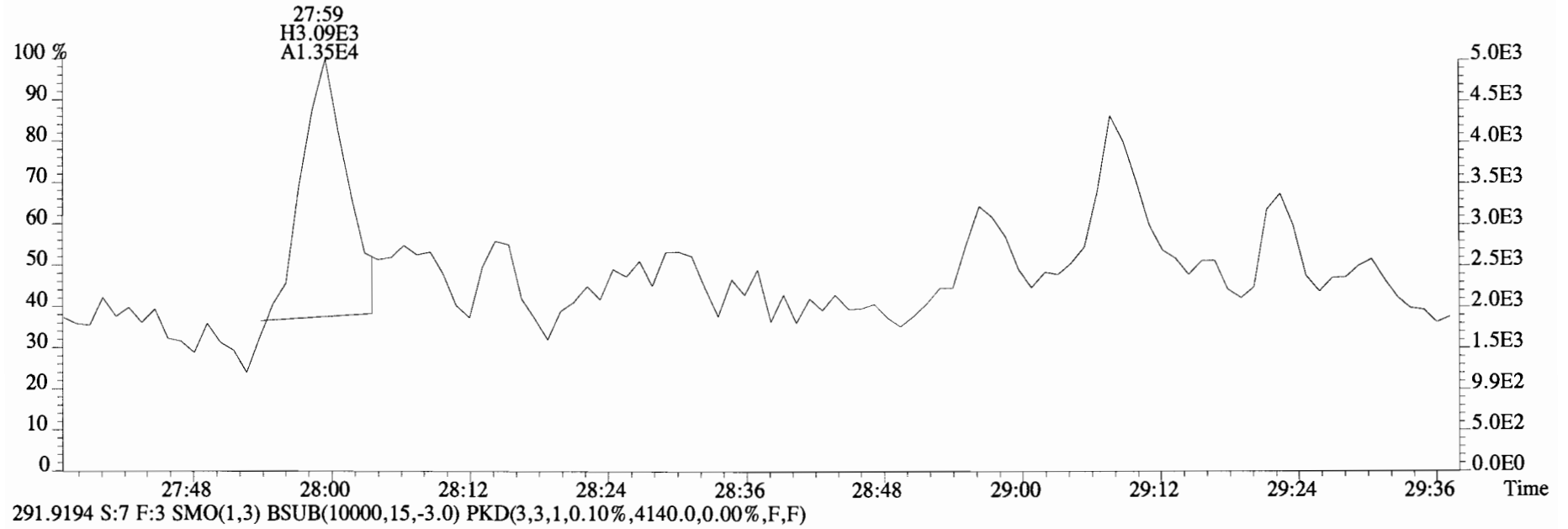
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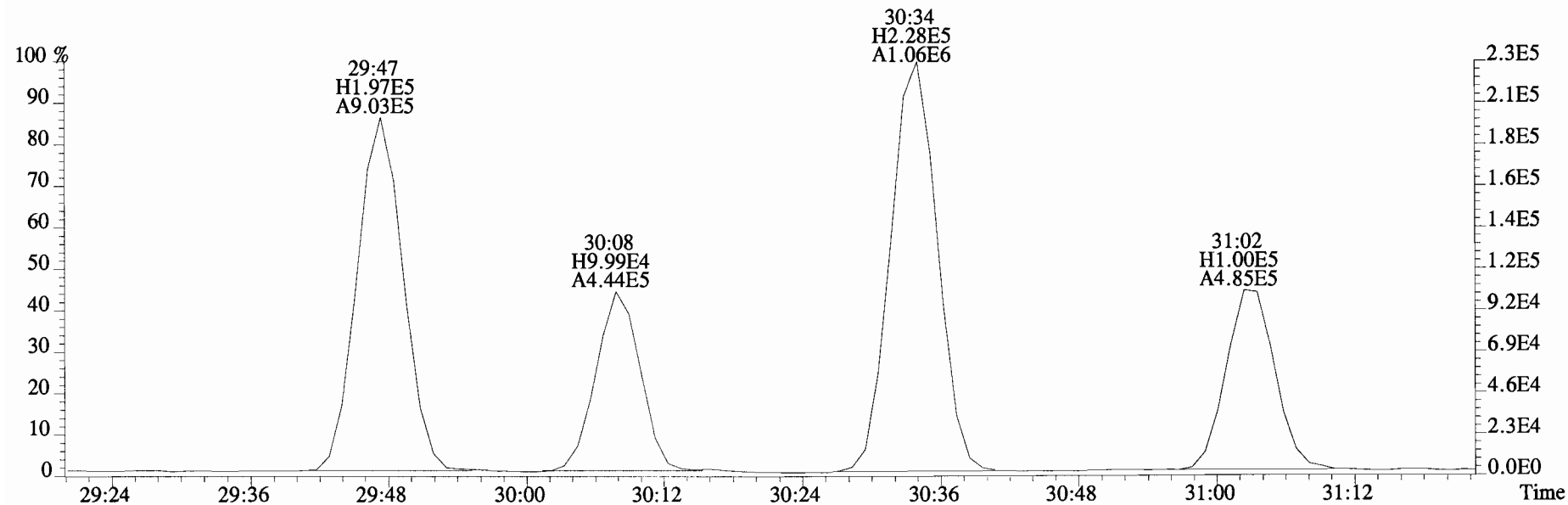
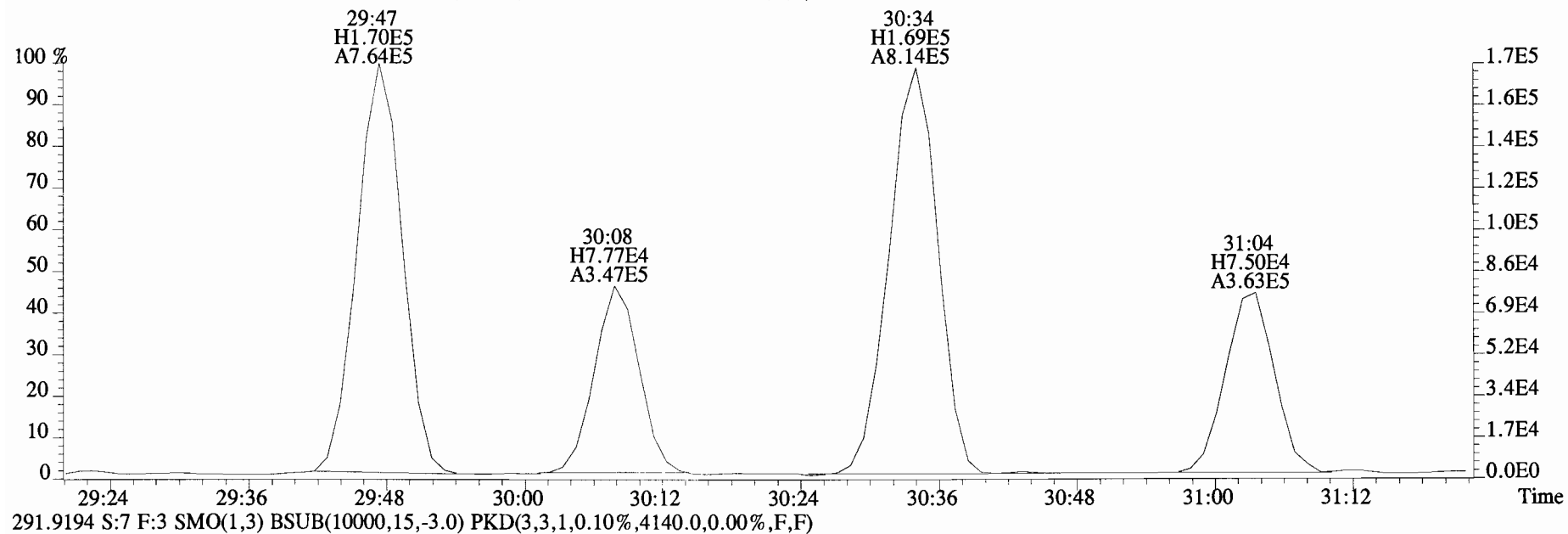
File:141226E1 #1-761 Acq:26-DEC-2014 17:49:21 GC EI+ Voltage SIR Autospec-UltimaE
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301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5392.0,0.00%,F,F)



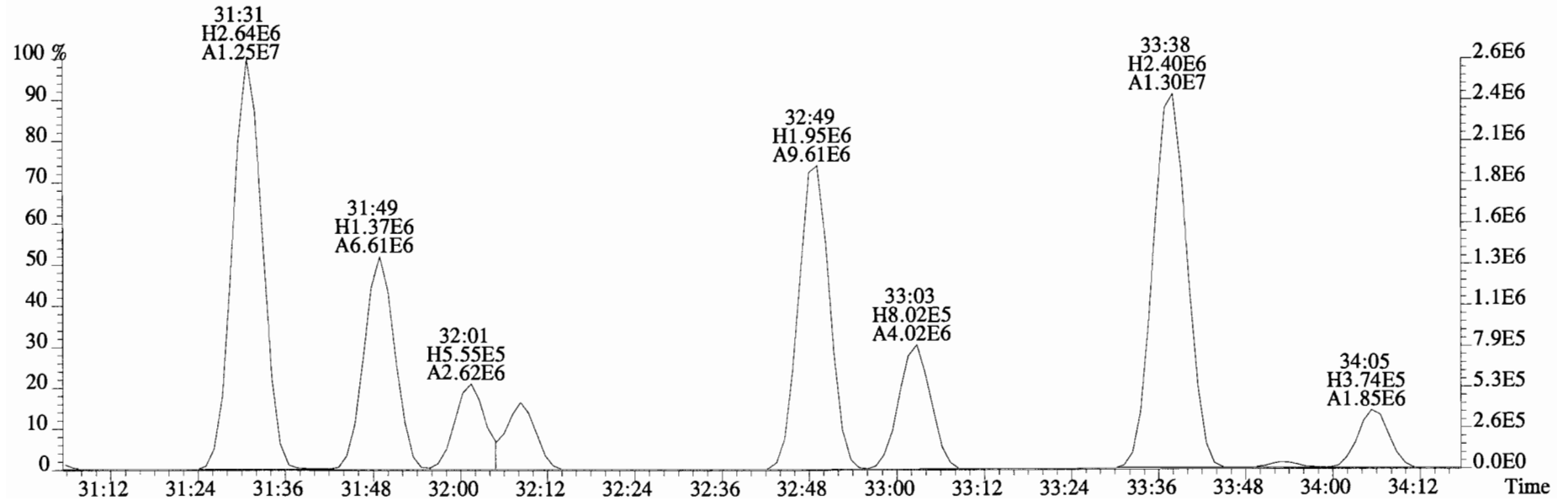
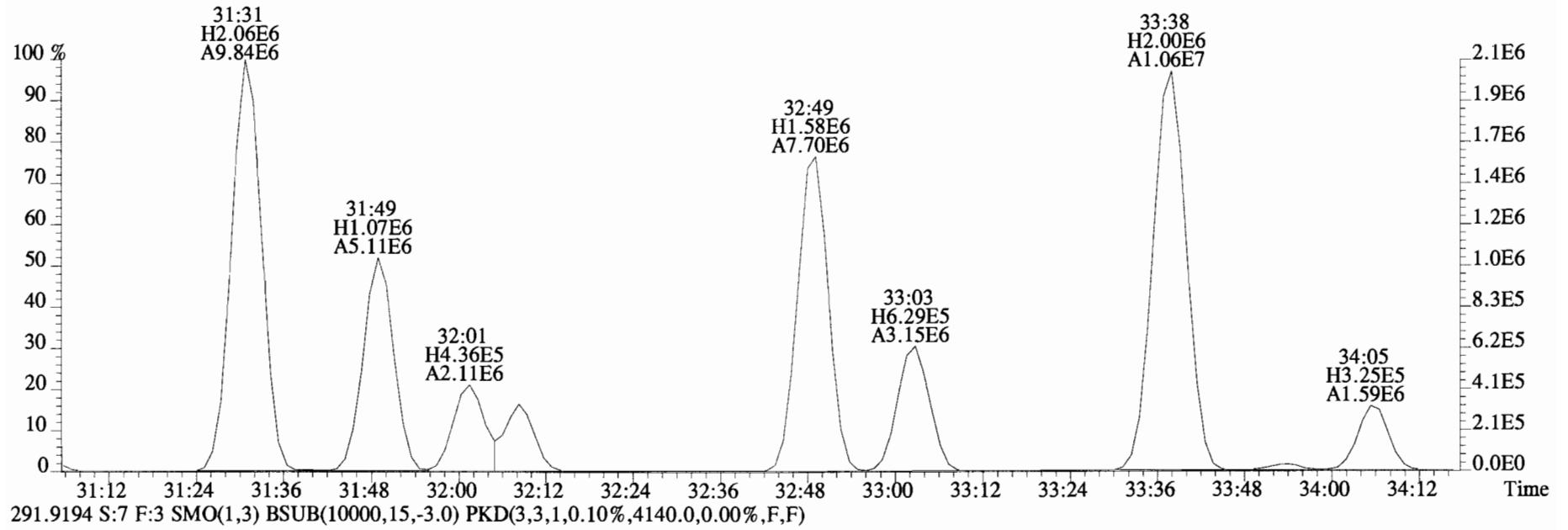
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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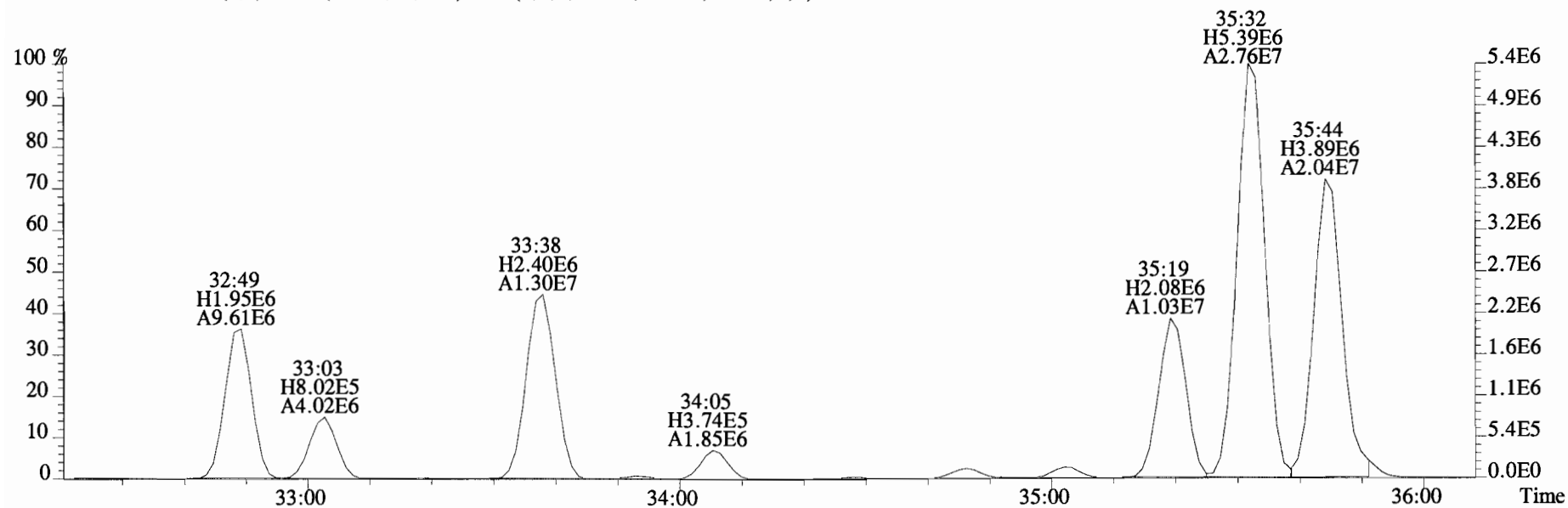
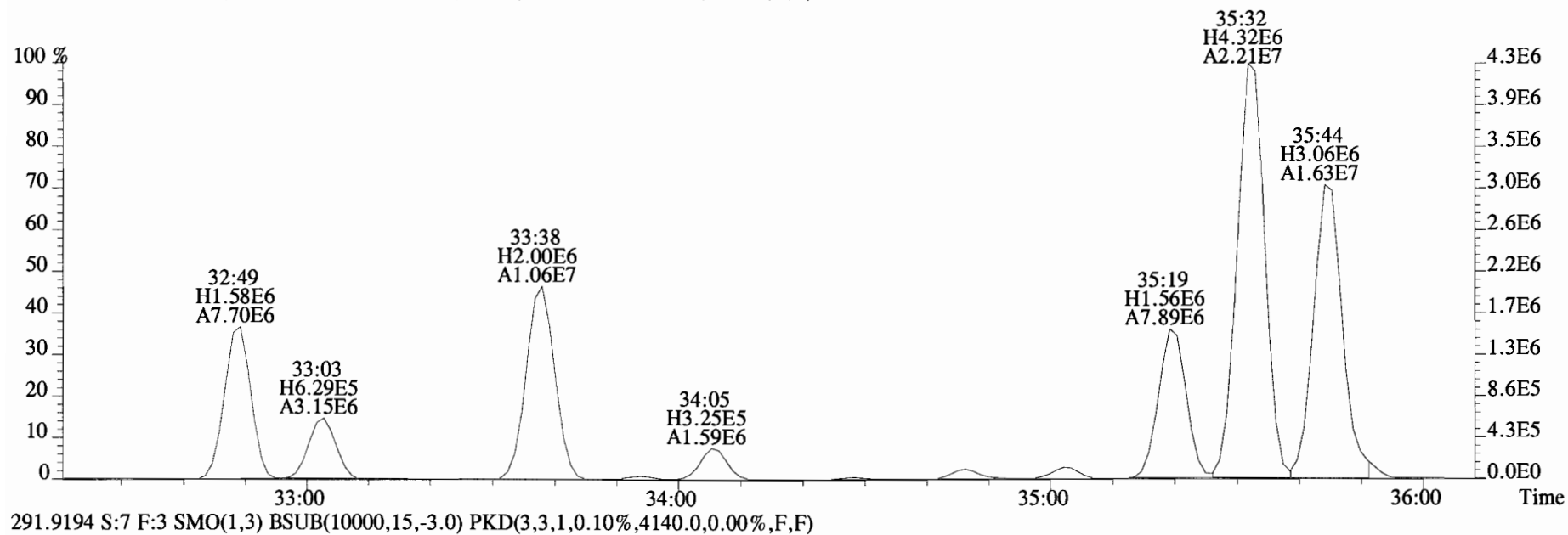
File:141226E1 #1-761 Acq:26-DEC-2014 17:49:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3480.0,0.00%,F,F)



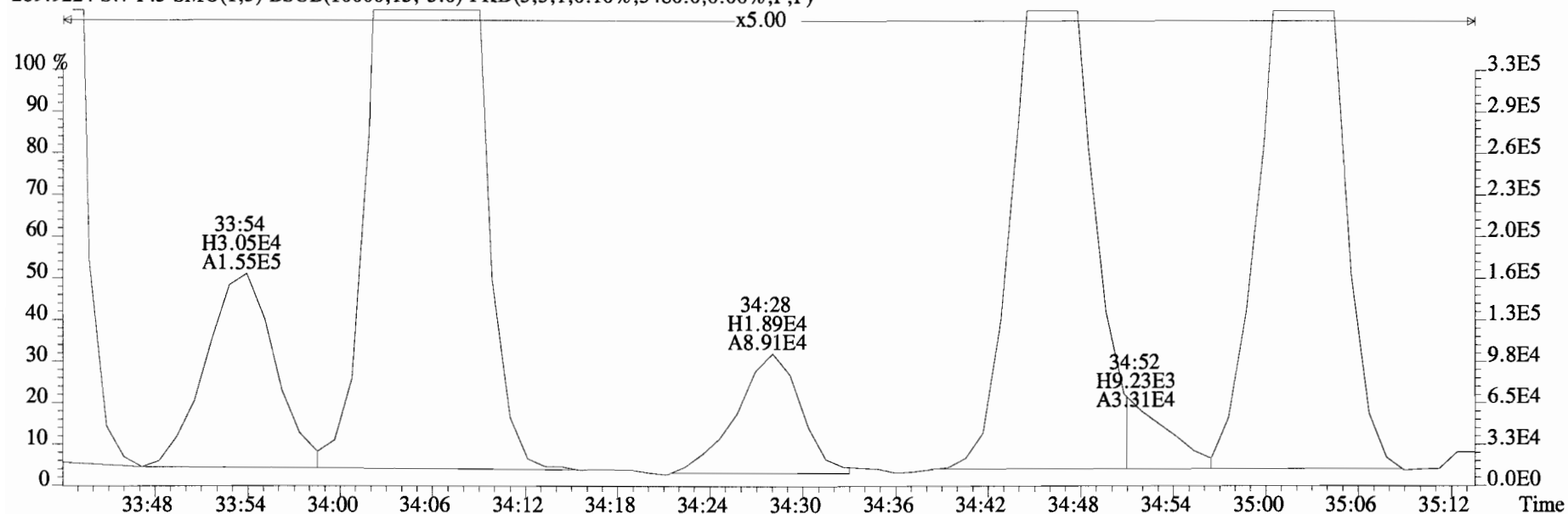
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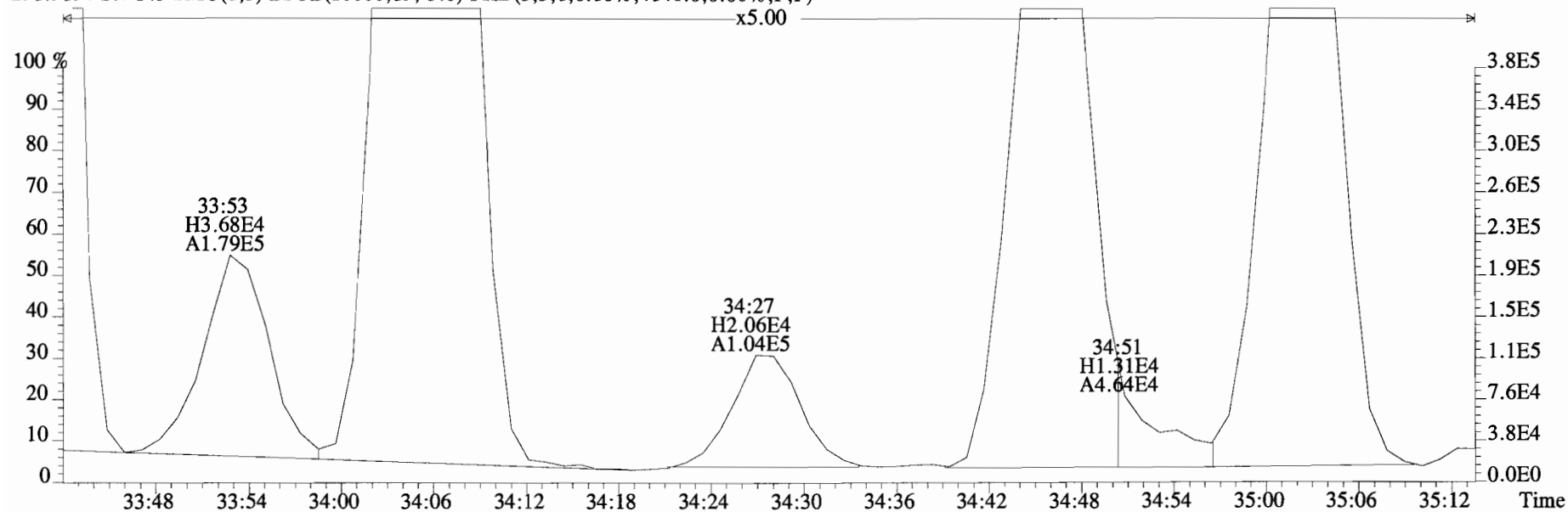
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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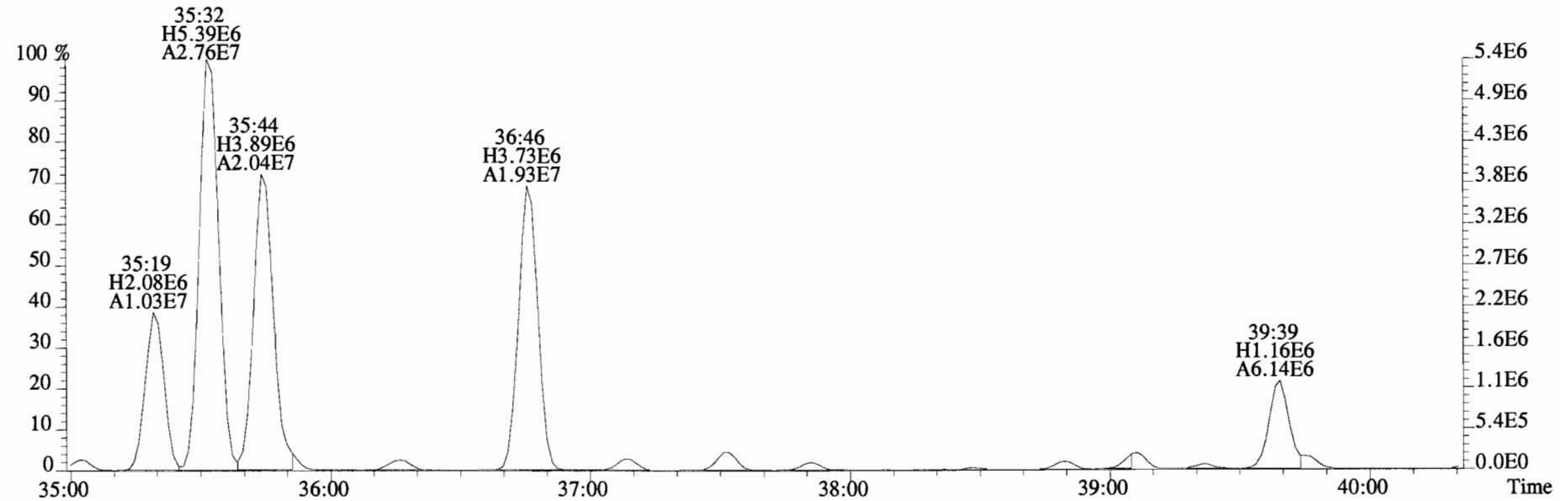
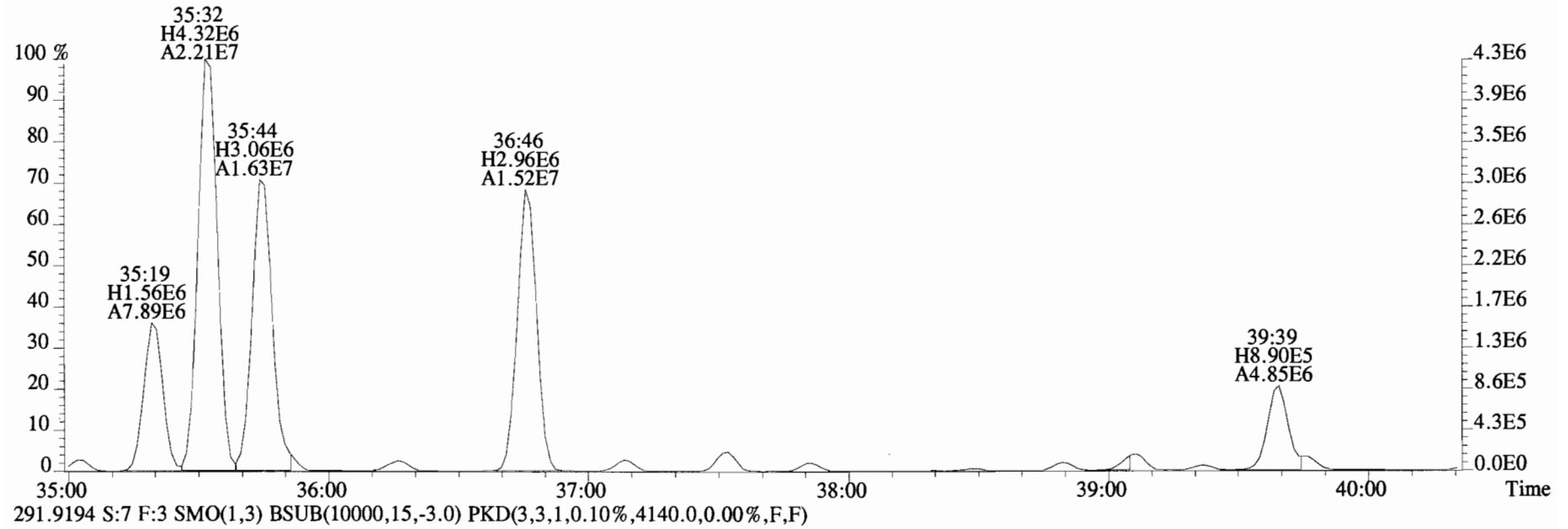
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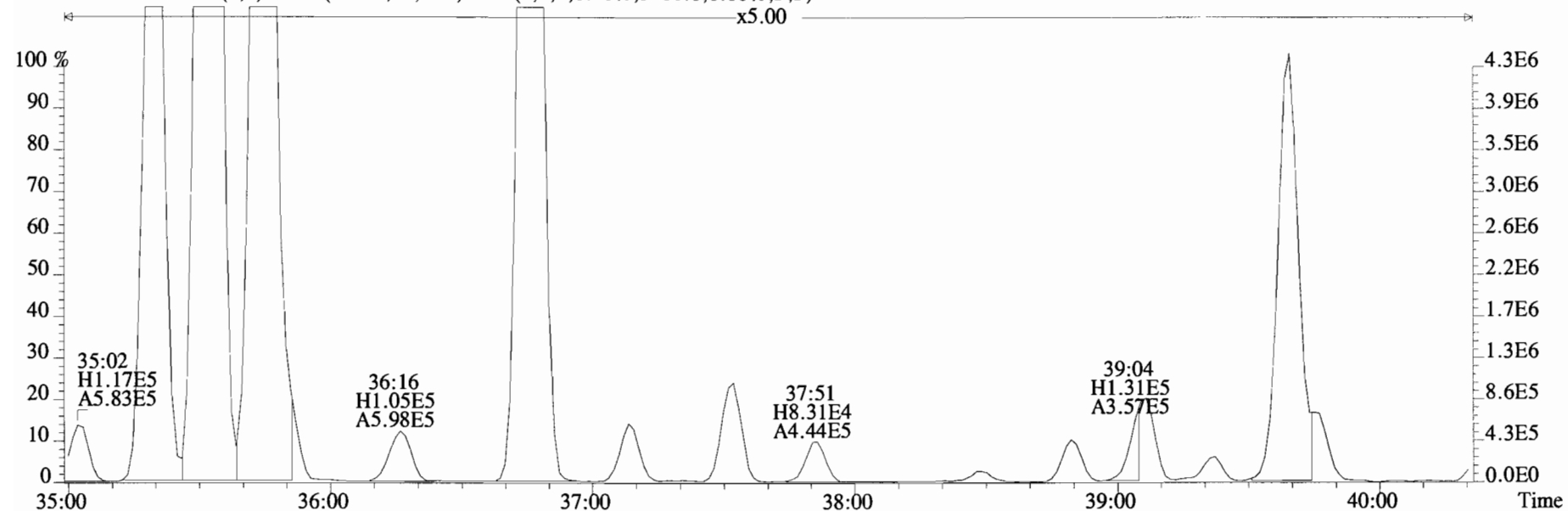
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4140.0,0.00%,F,F)



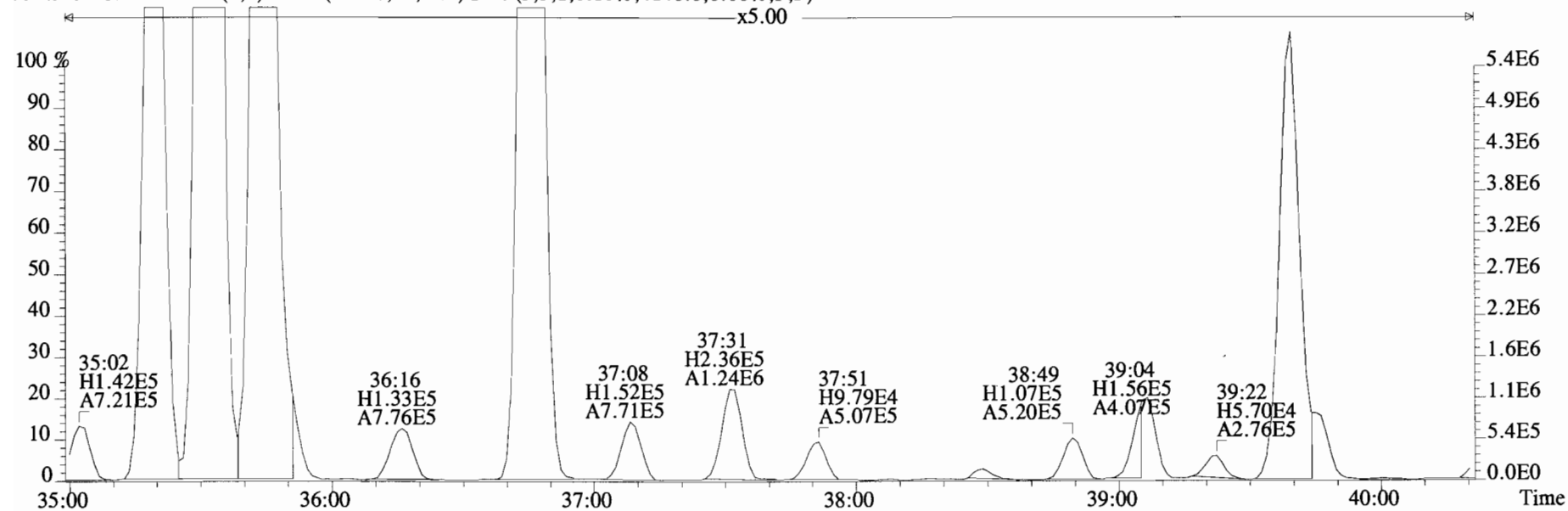
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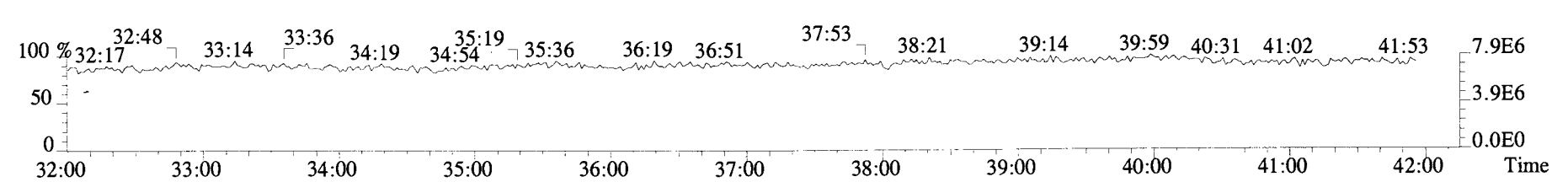
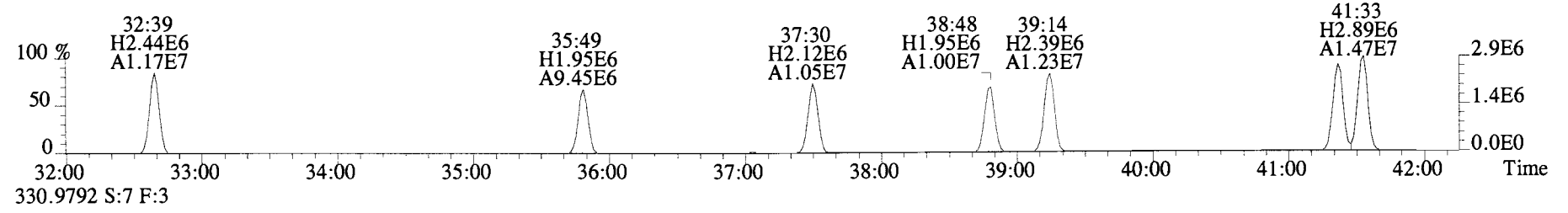
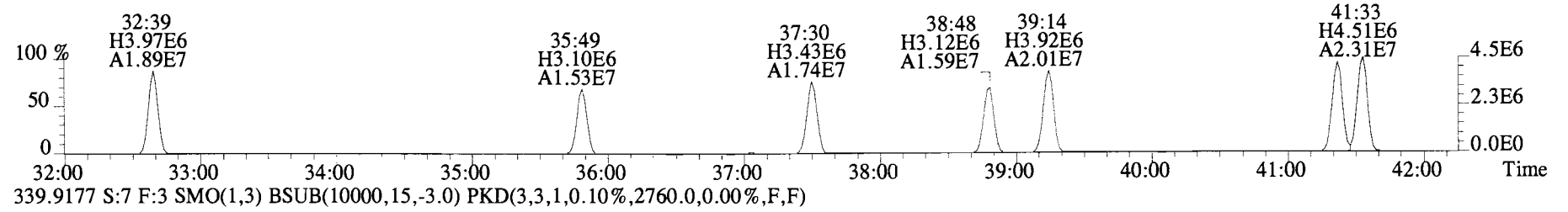
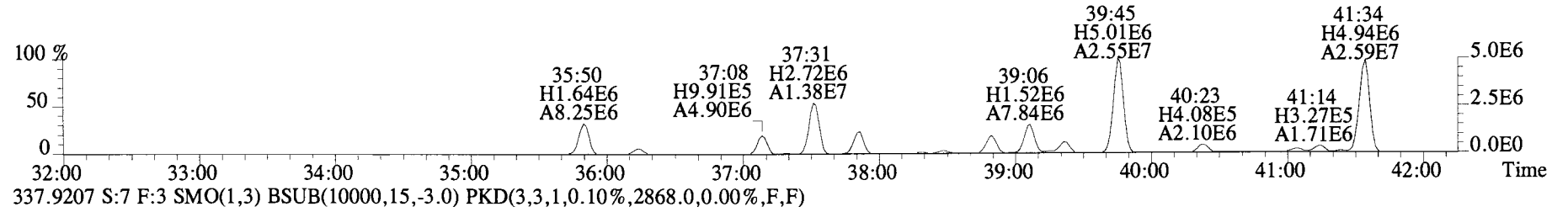
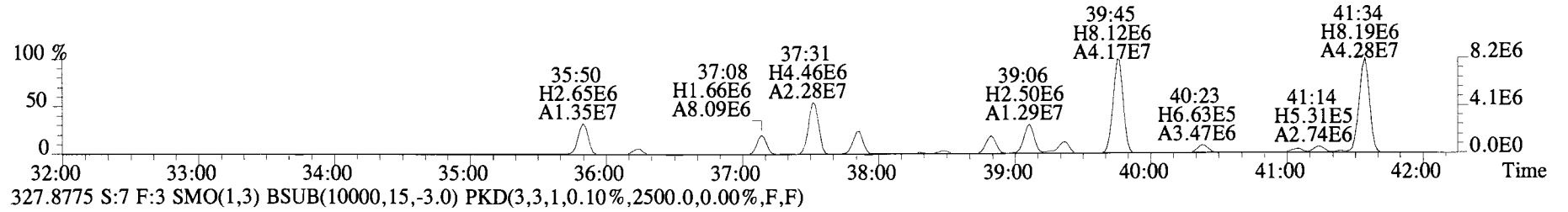
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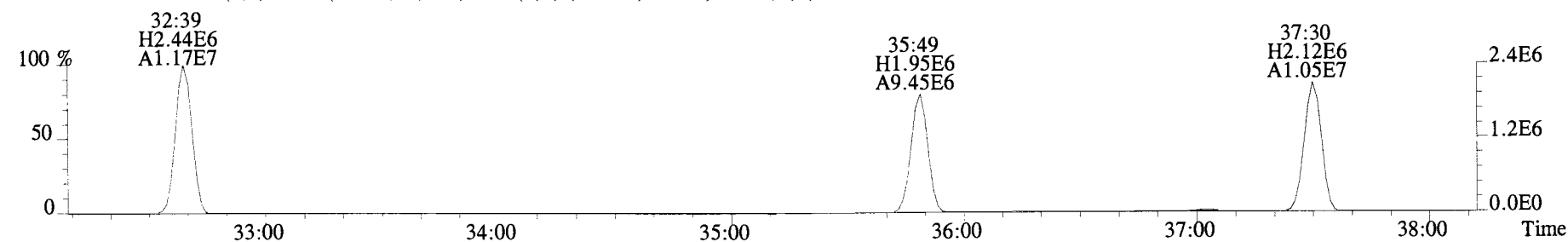
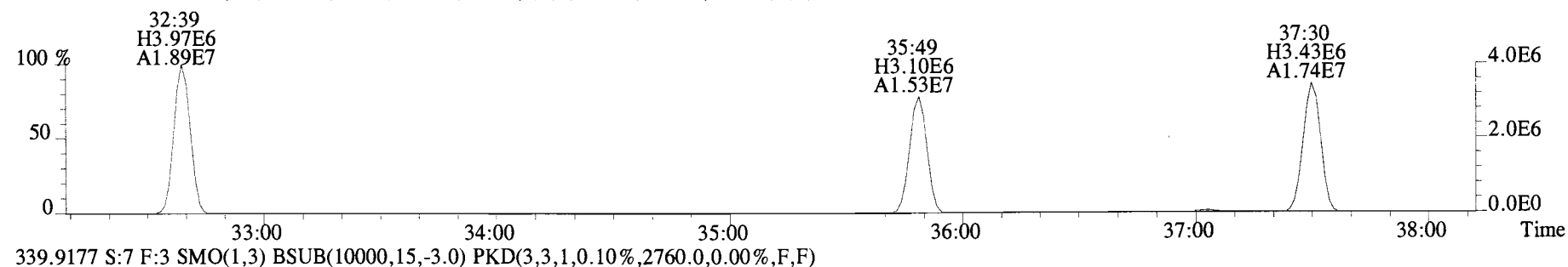
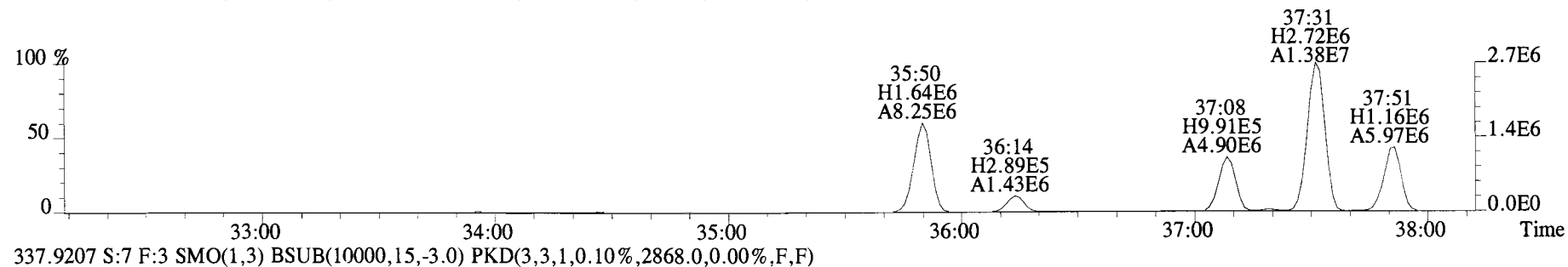
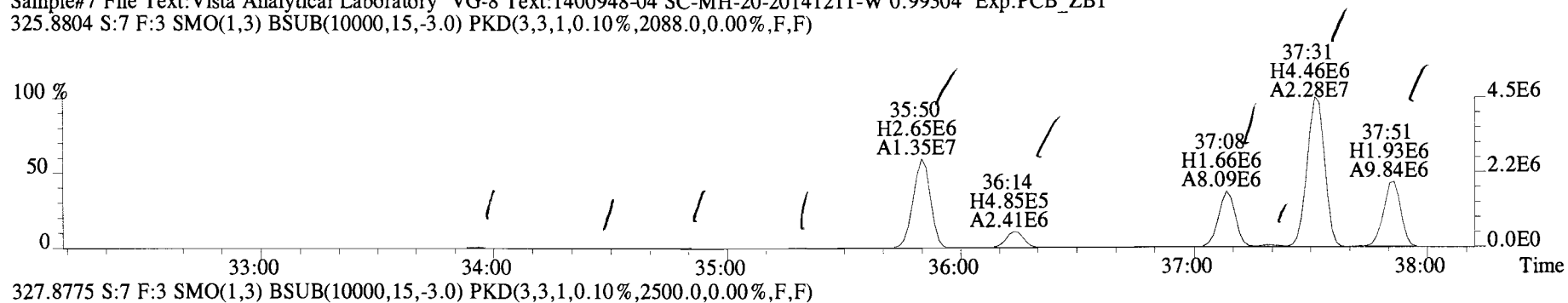
291.9194 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4140.0,0.00%,F,F)



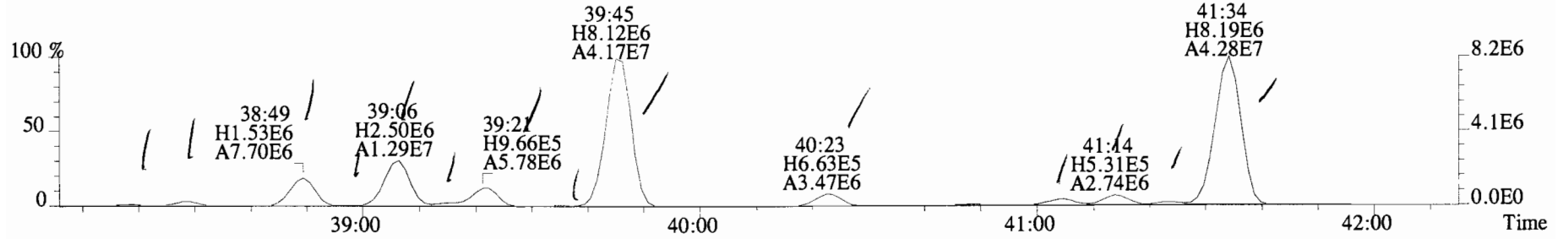
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2088.0,0.00%,F,F)



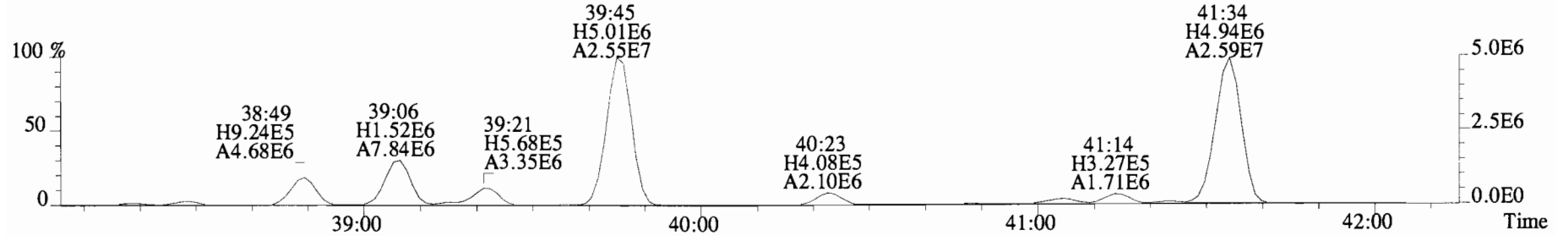
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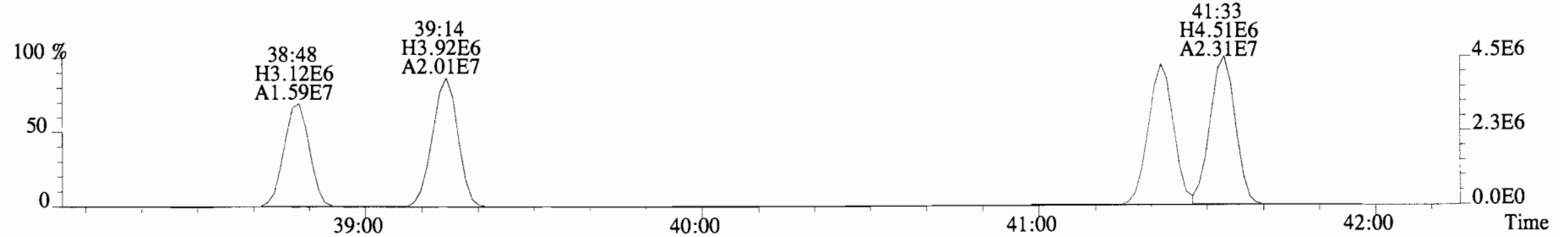
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
 325.8804 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2088.0,0.00%,F,F)



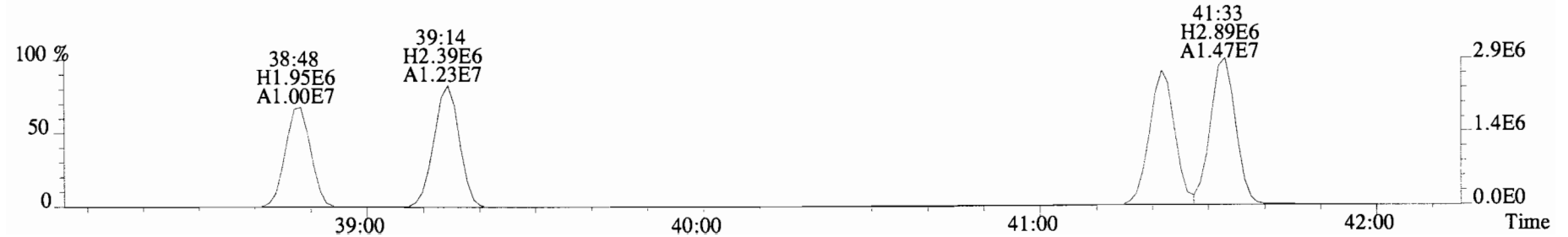
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



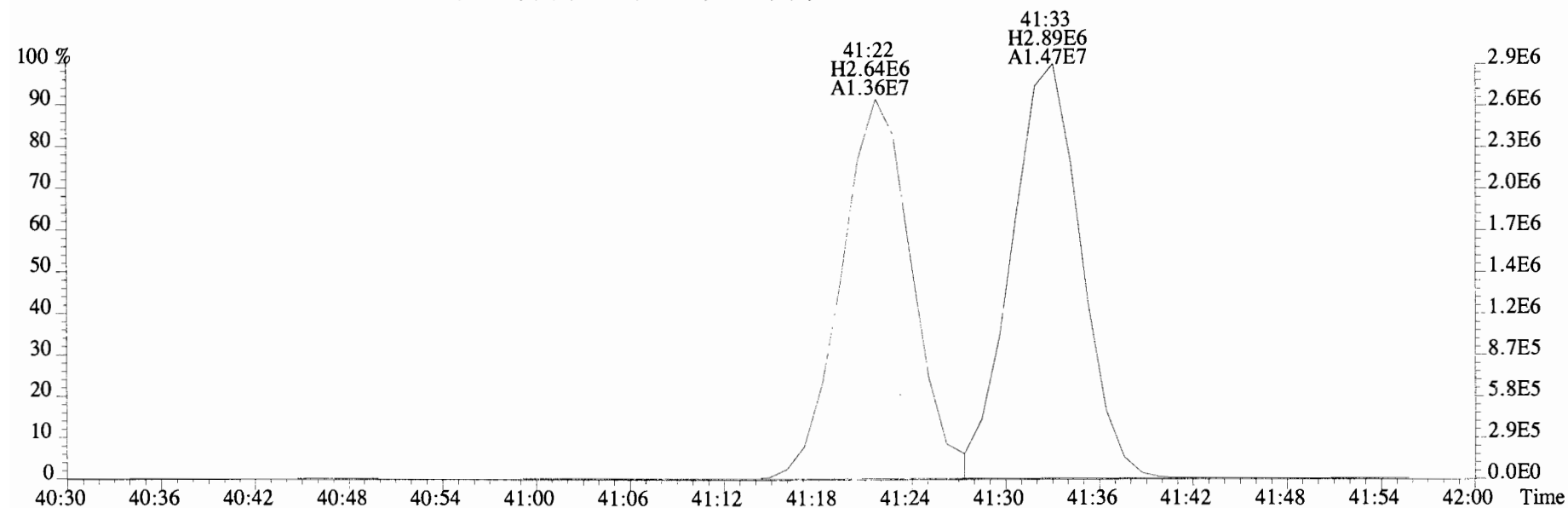
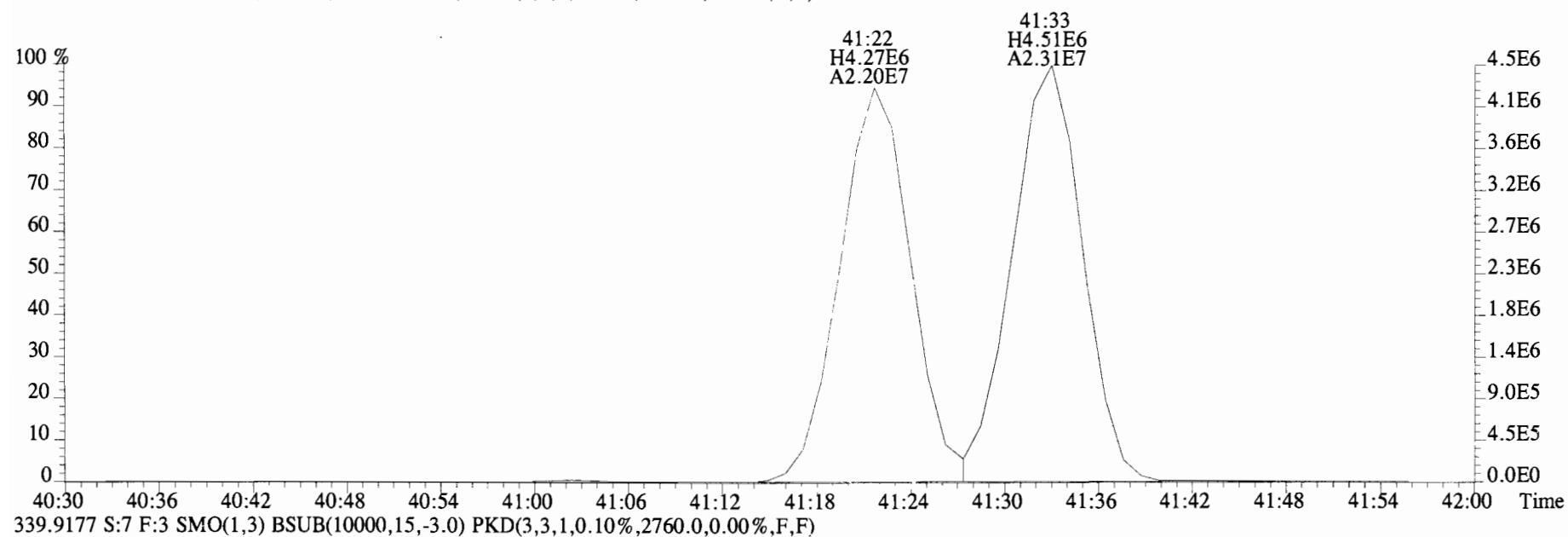
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2868.0,0.00%,F,F)



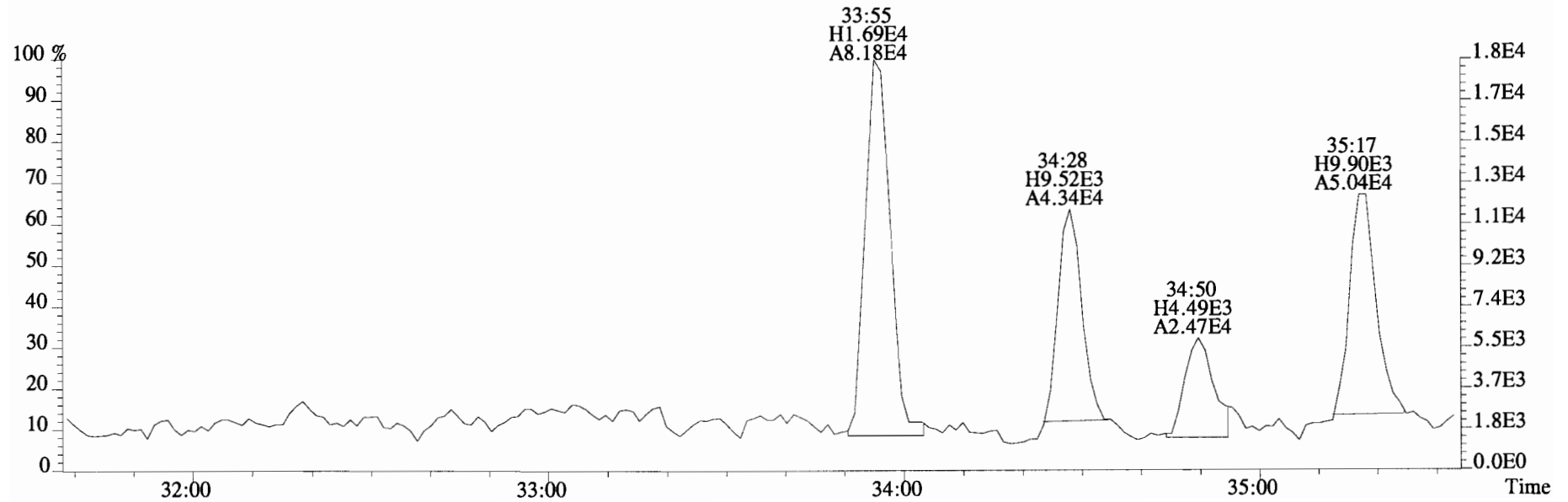
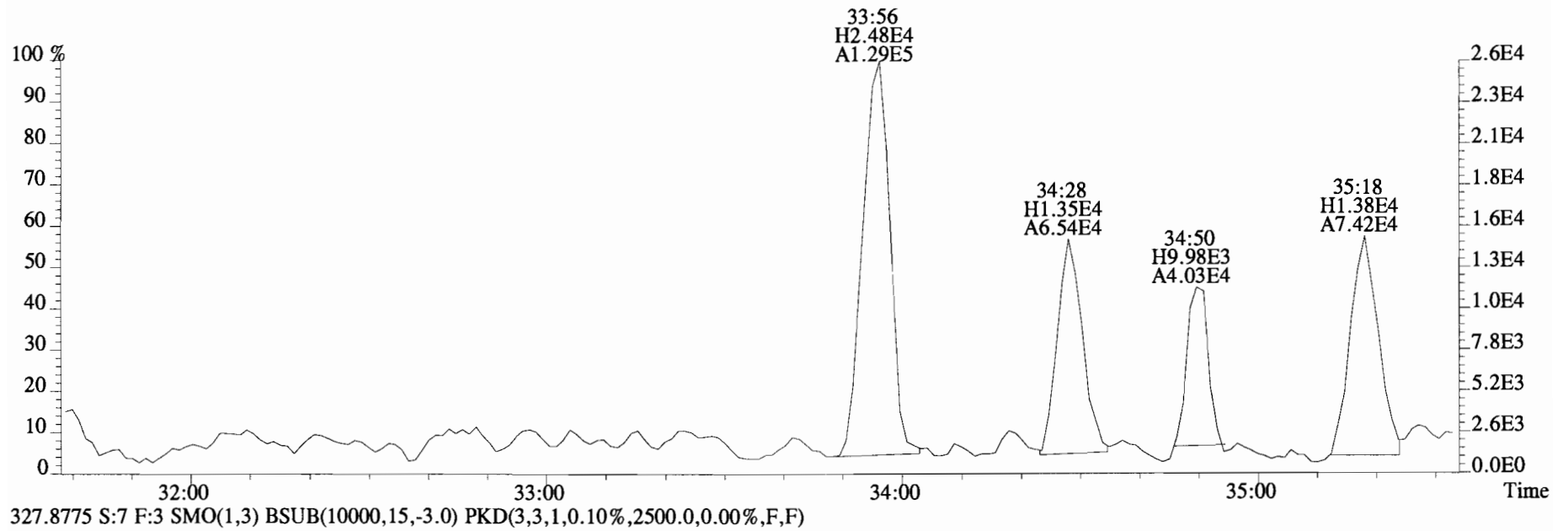
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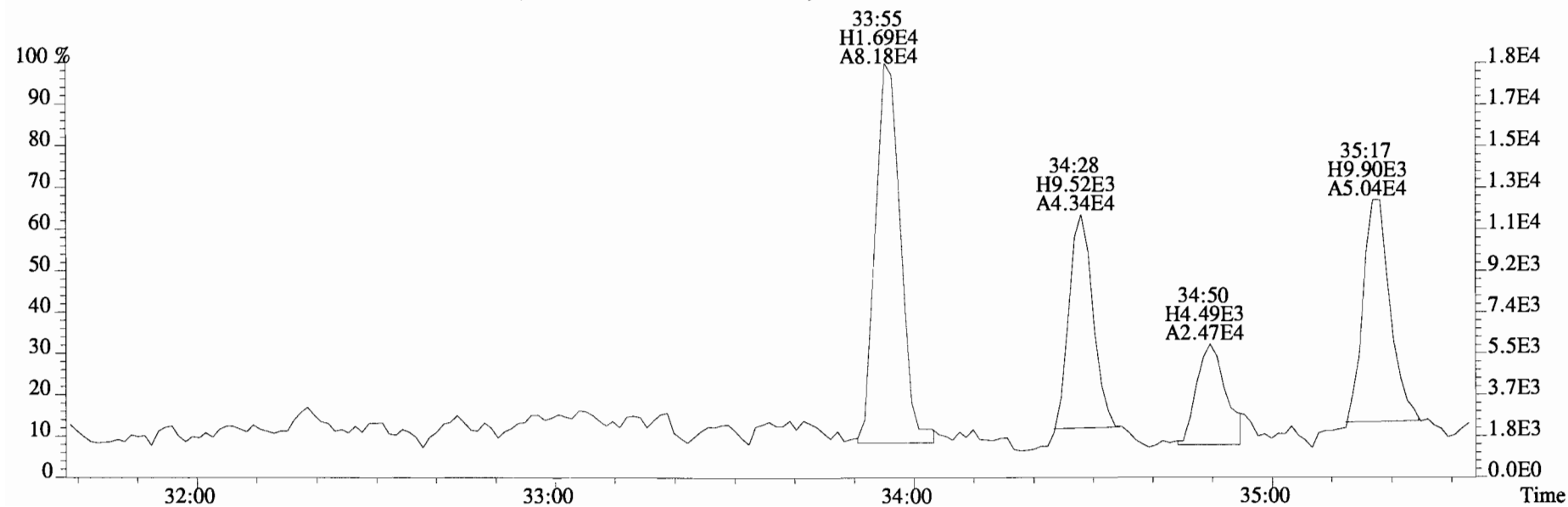
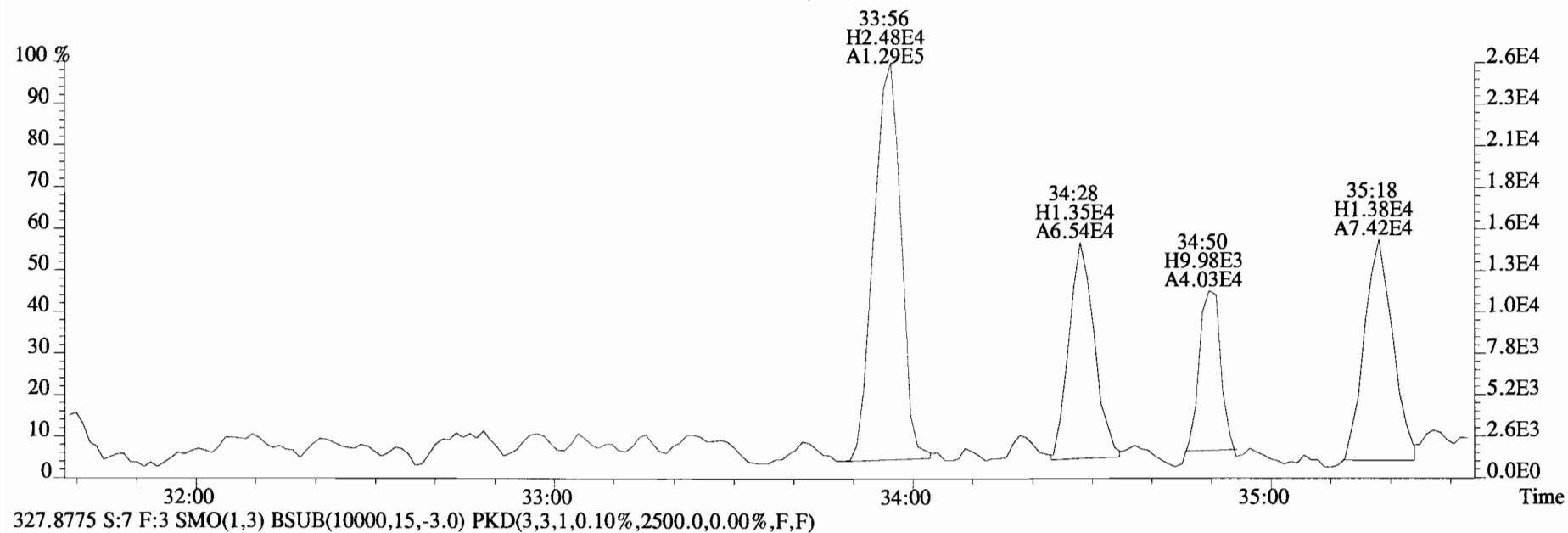
File:141226E1 #1-761 Acq:26-DEC-2014 17:49:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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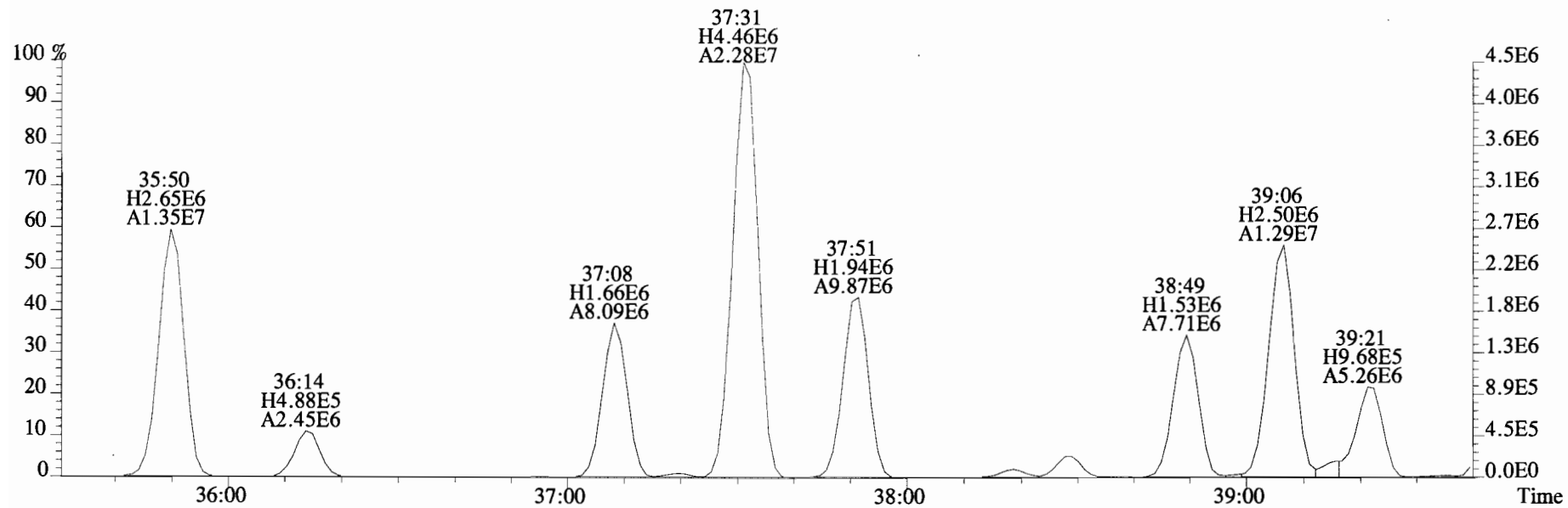
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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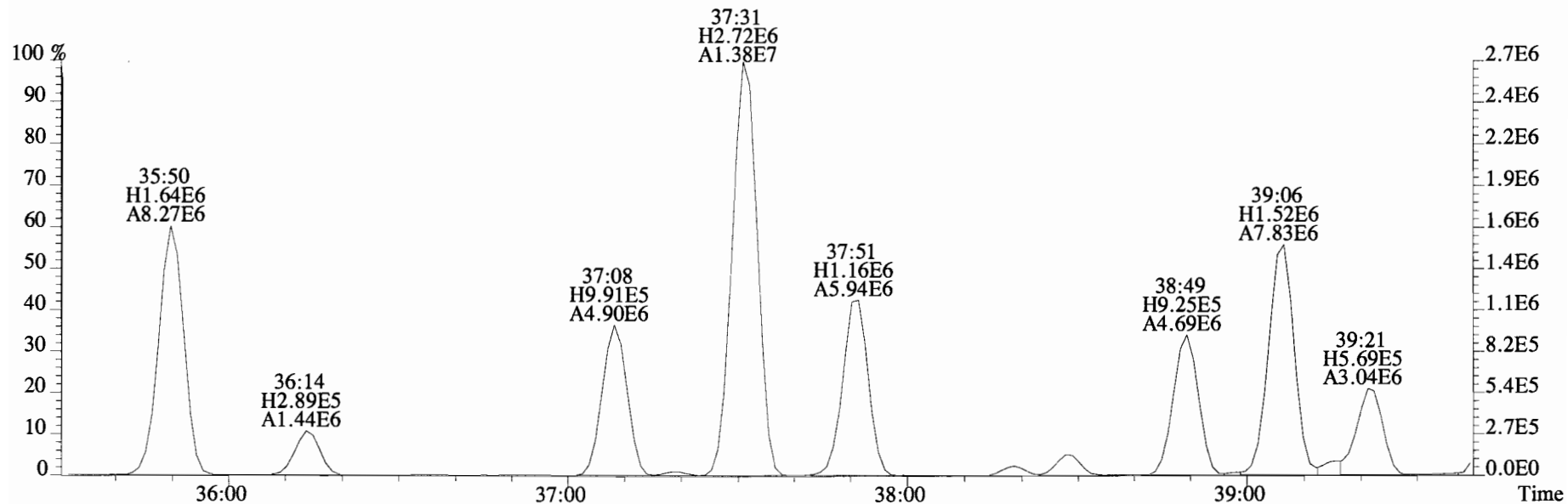
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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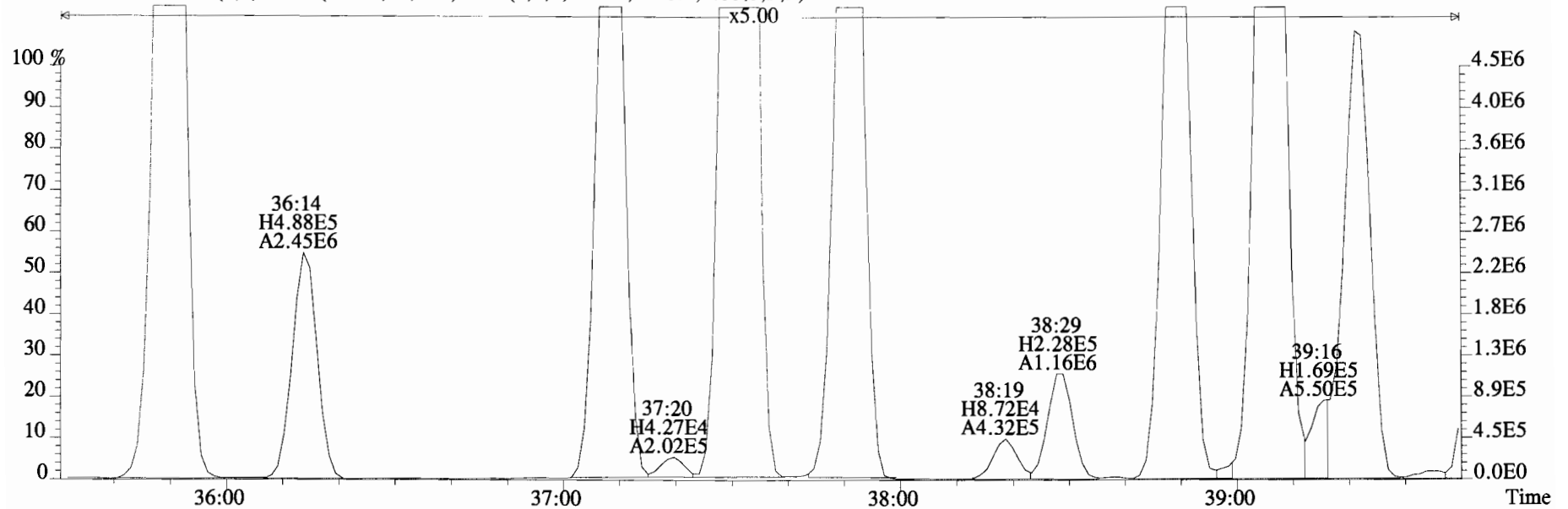
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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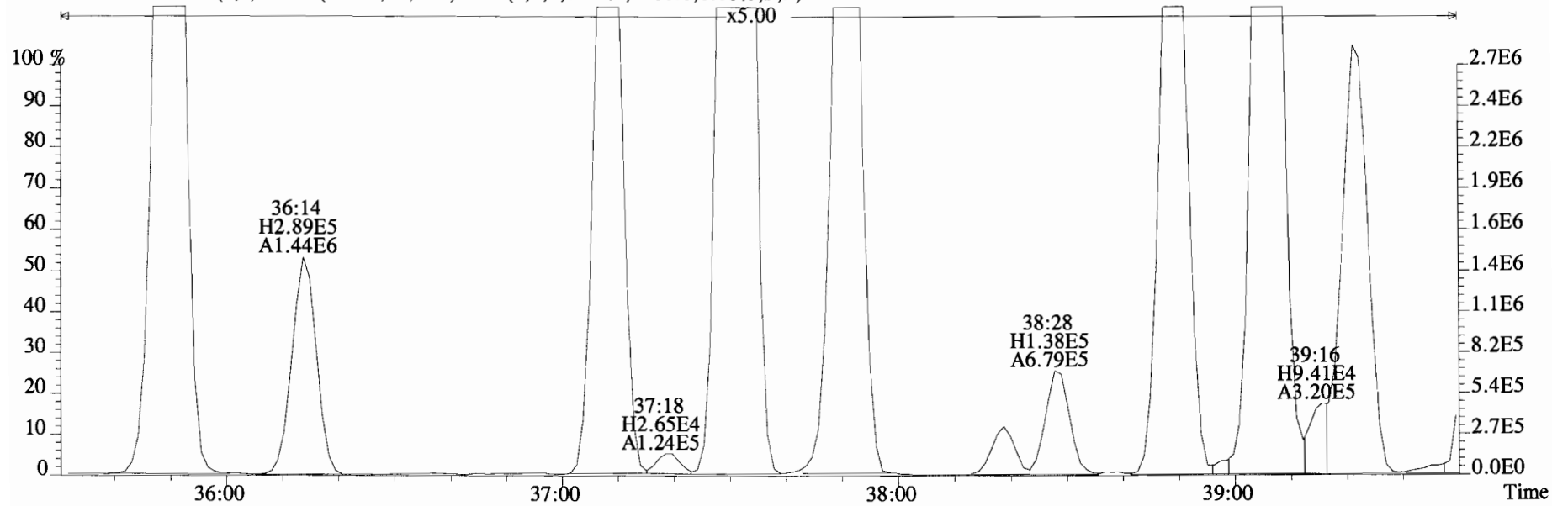
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



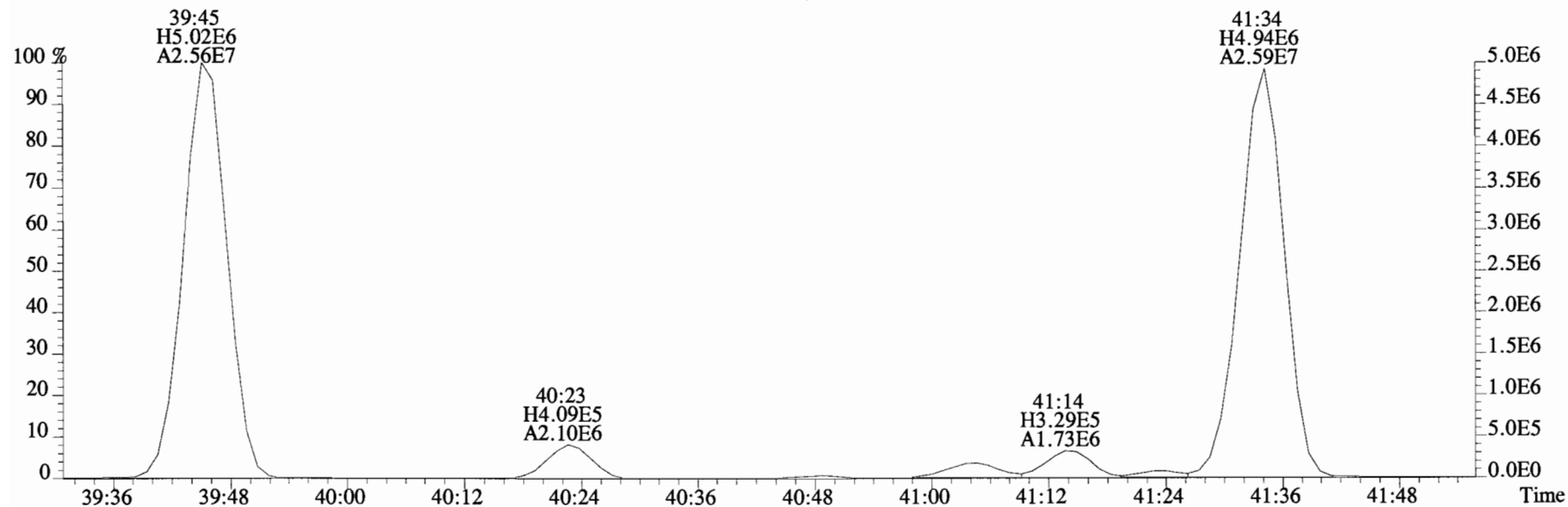
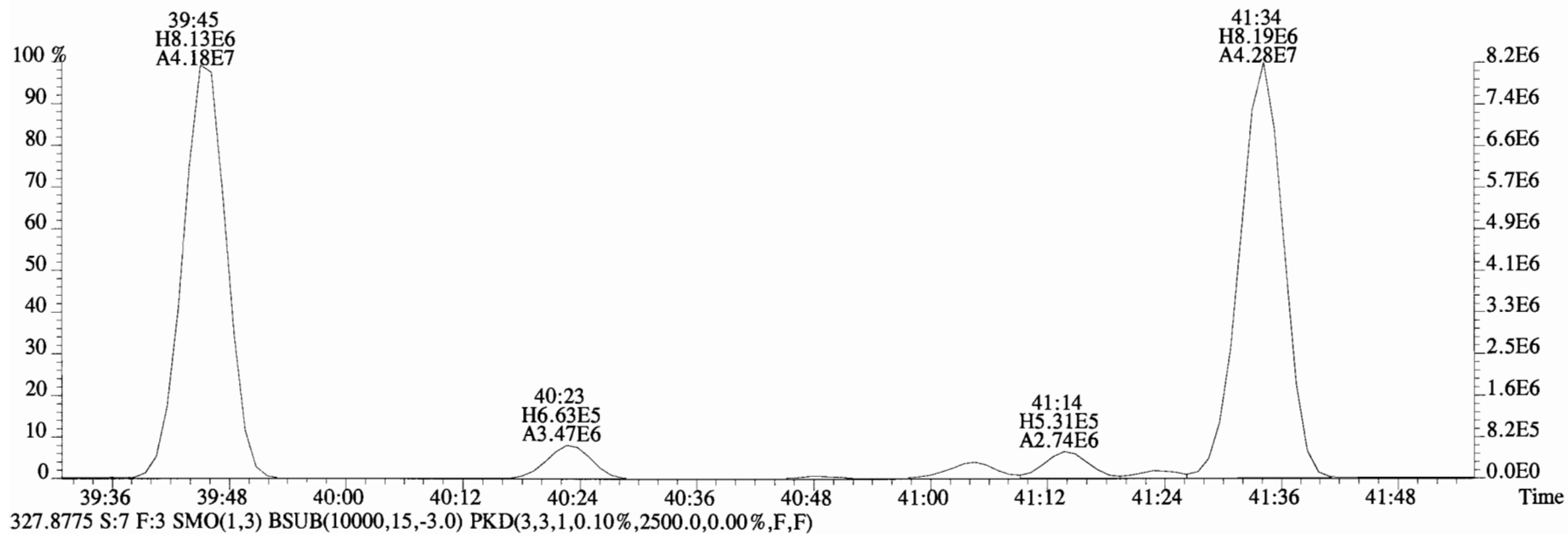
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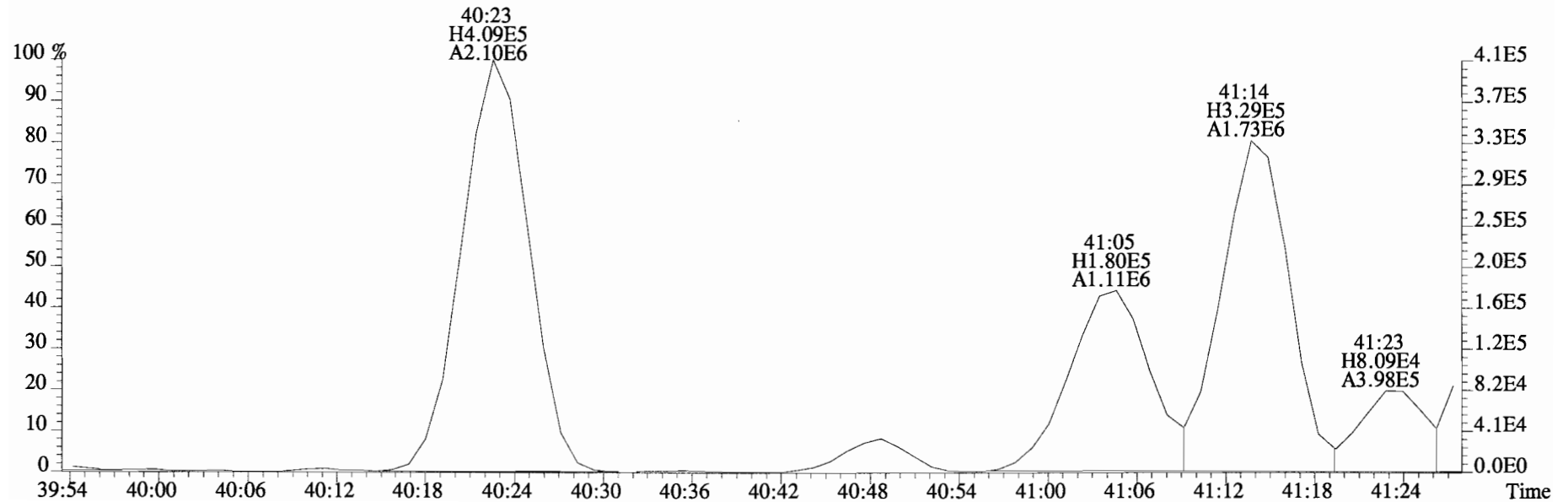
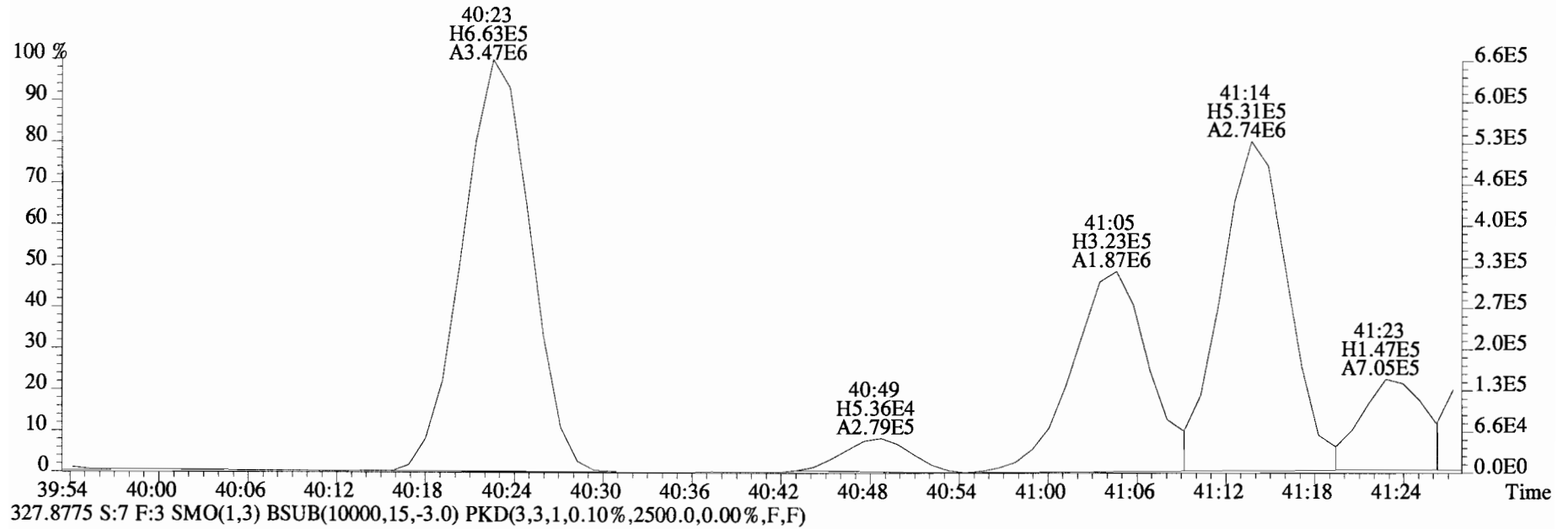
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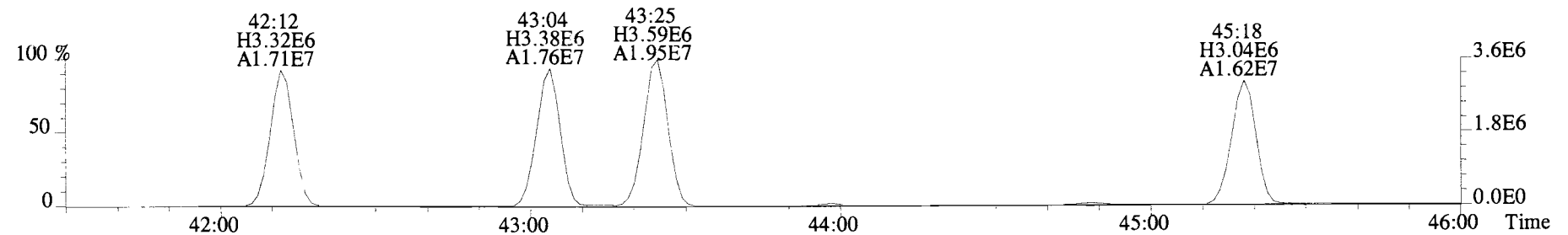
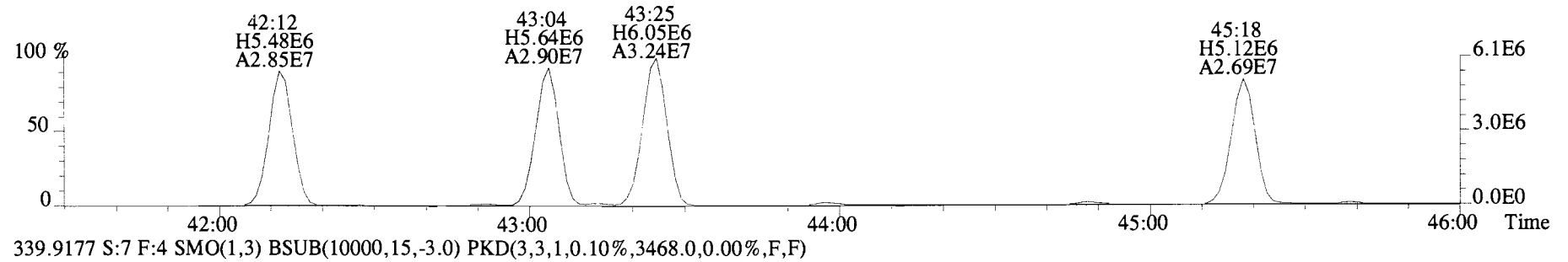
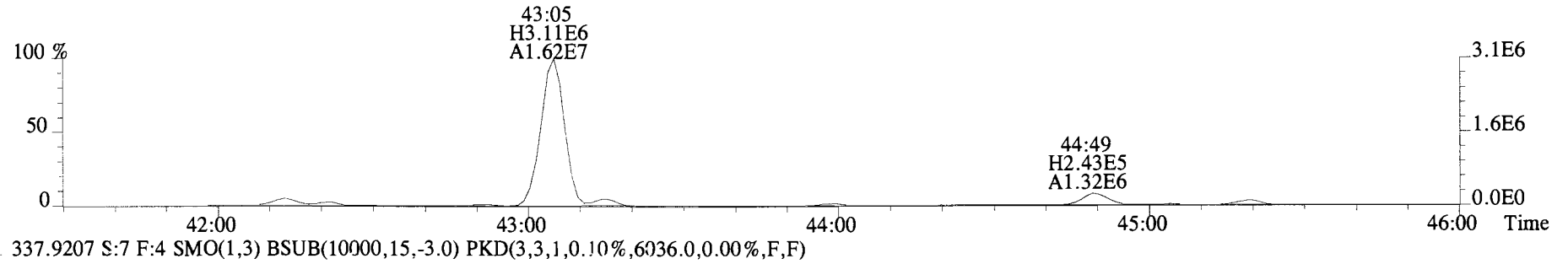
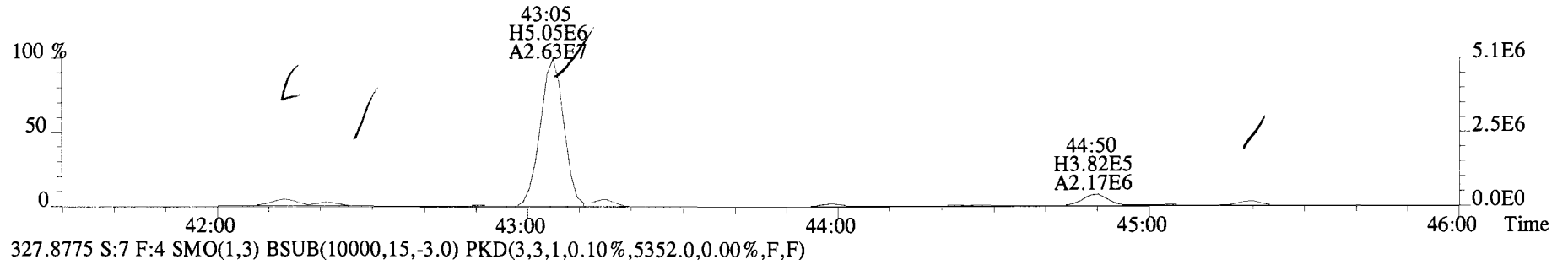
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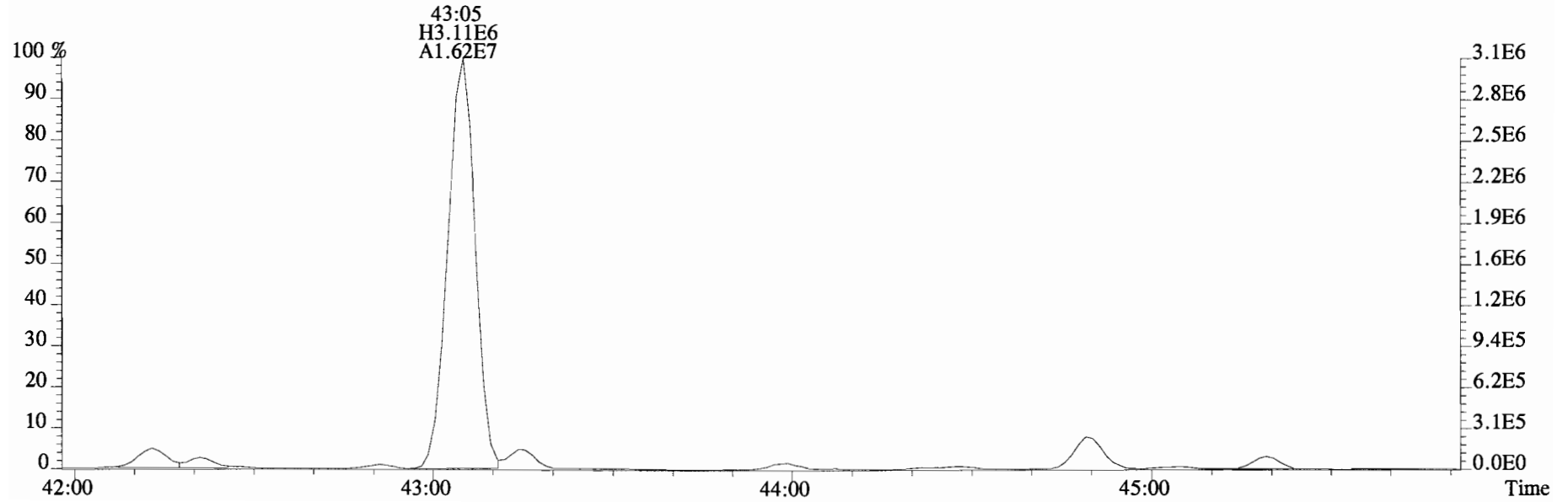
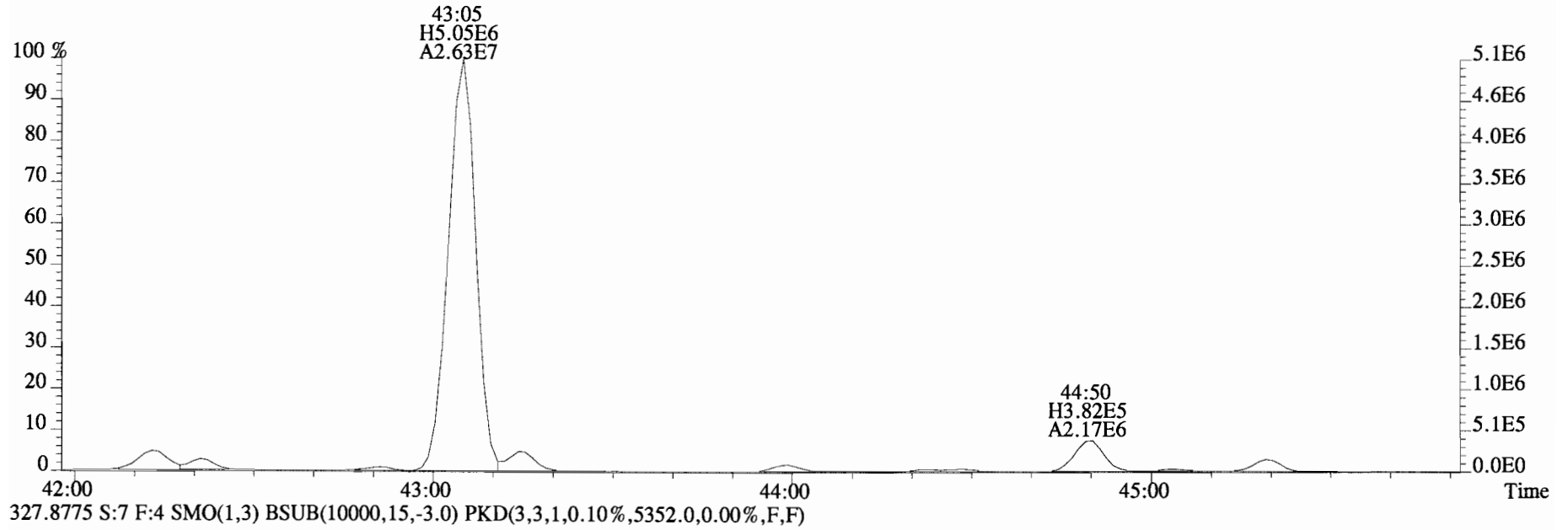
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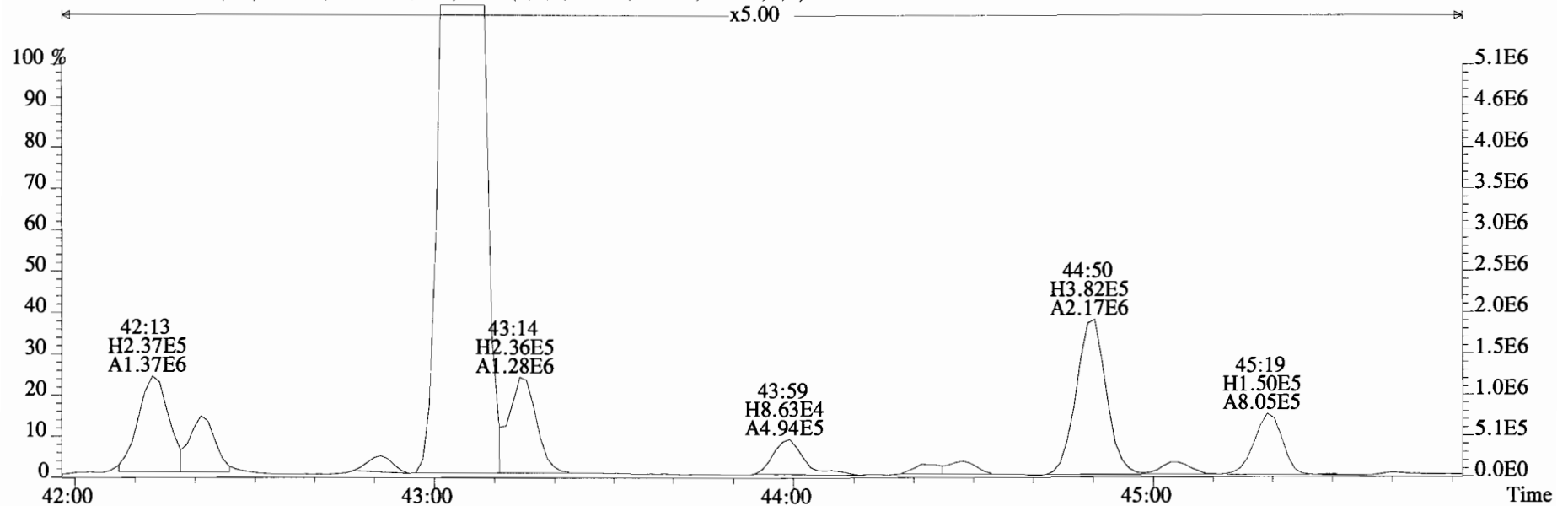
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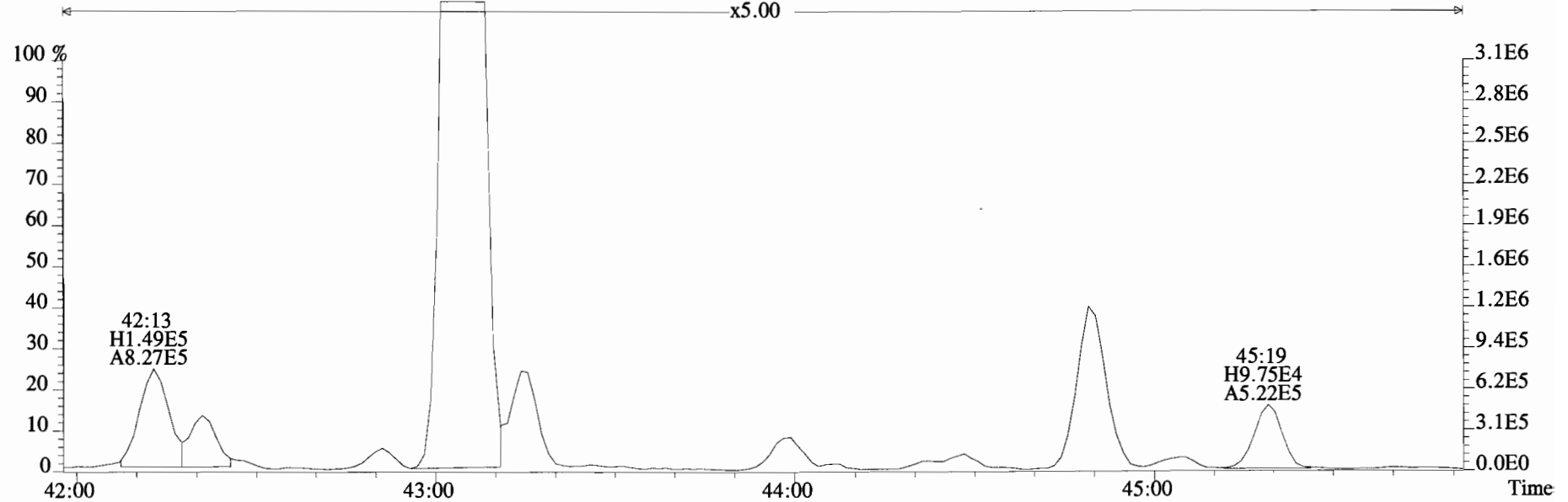
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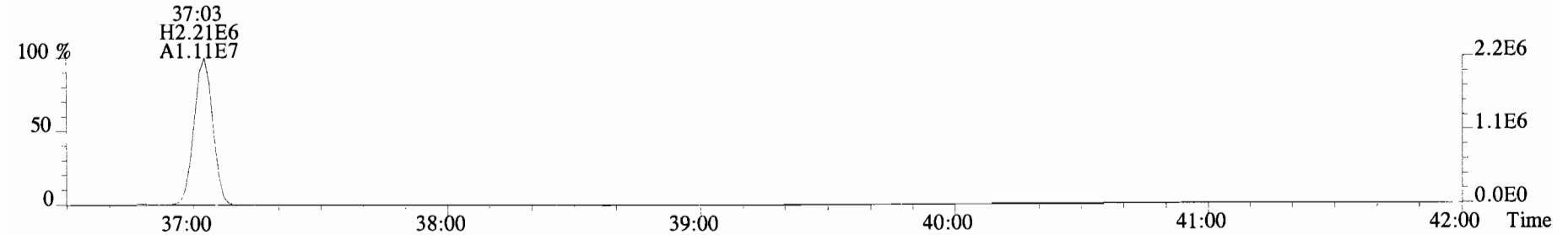
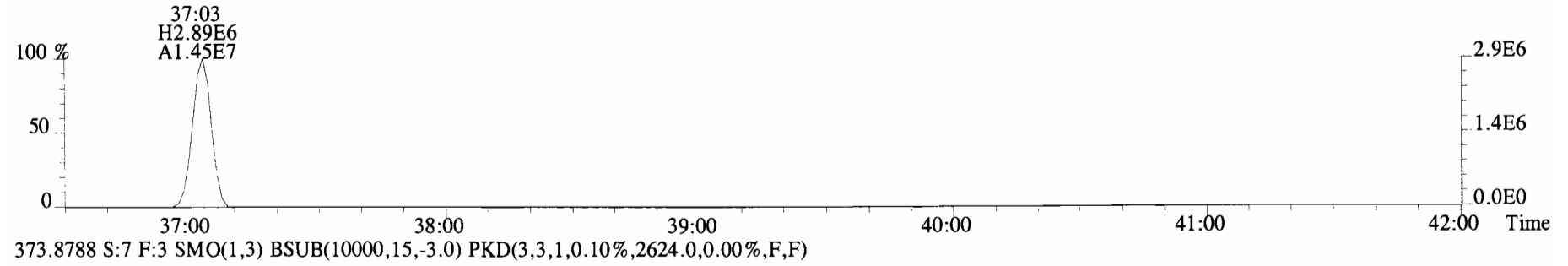
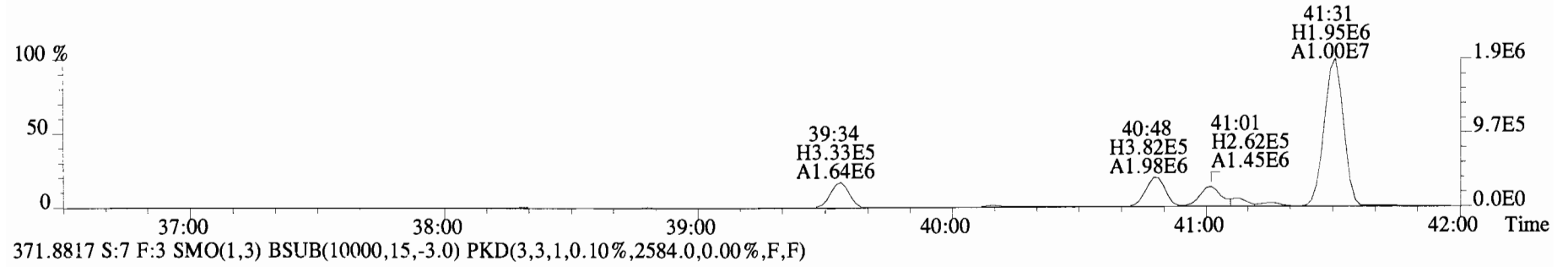
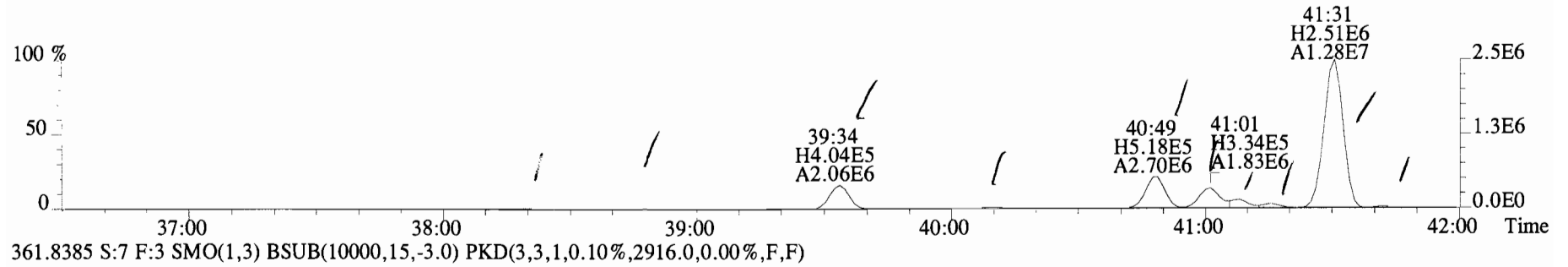
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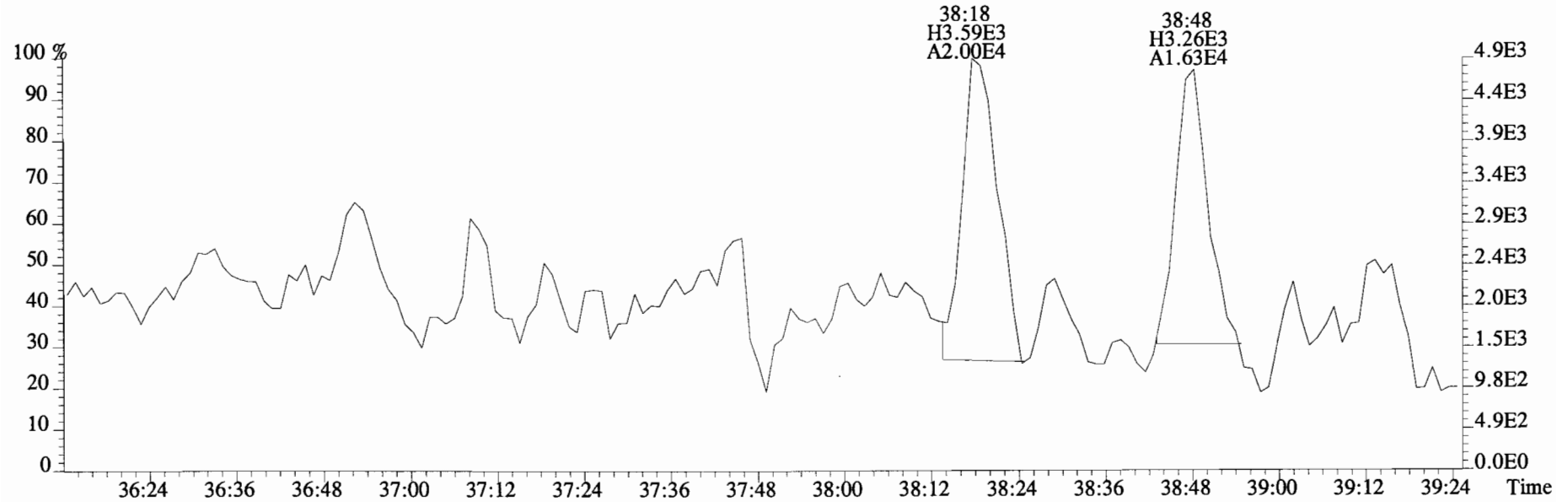
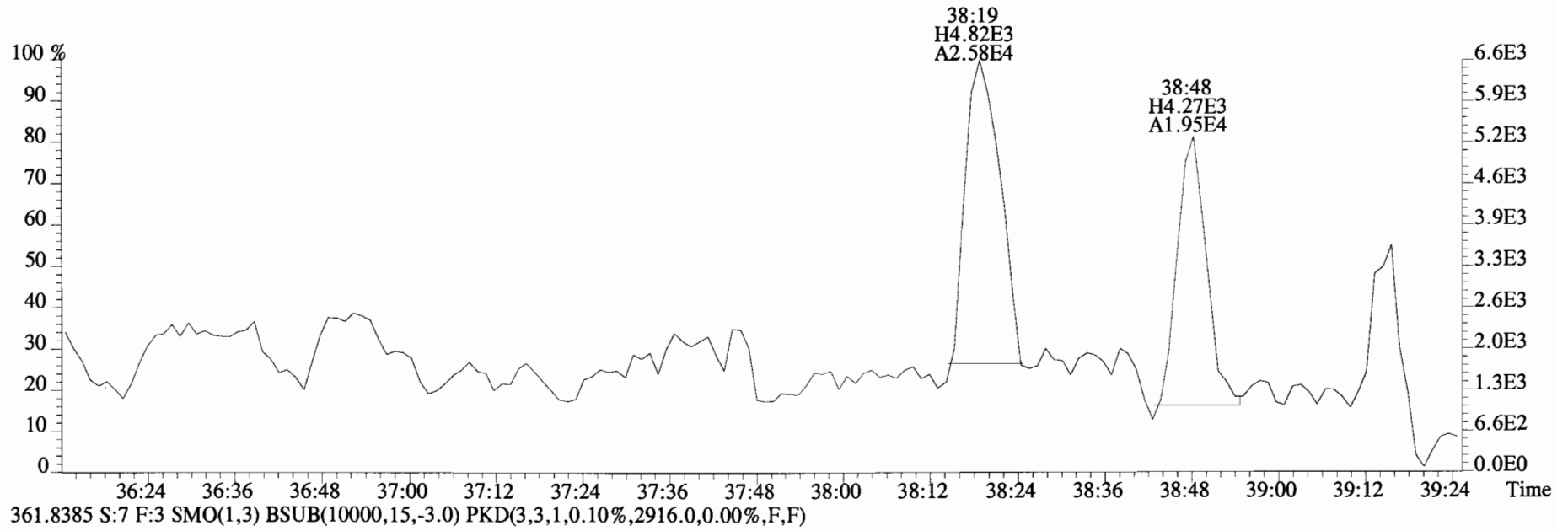
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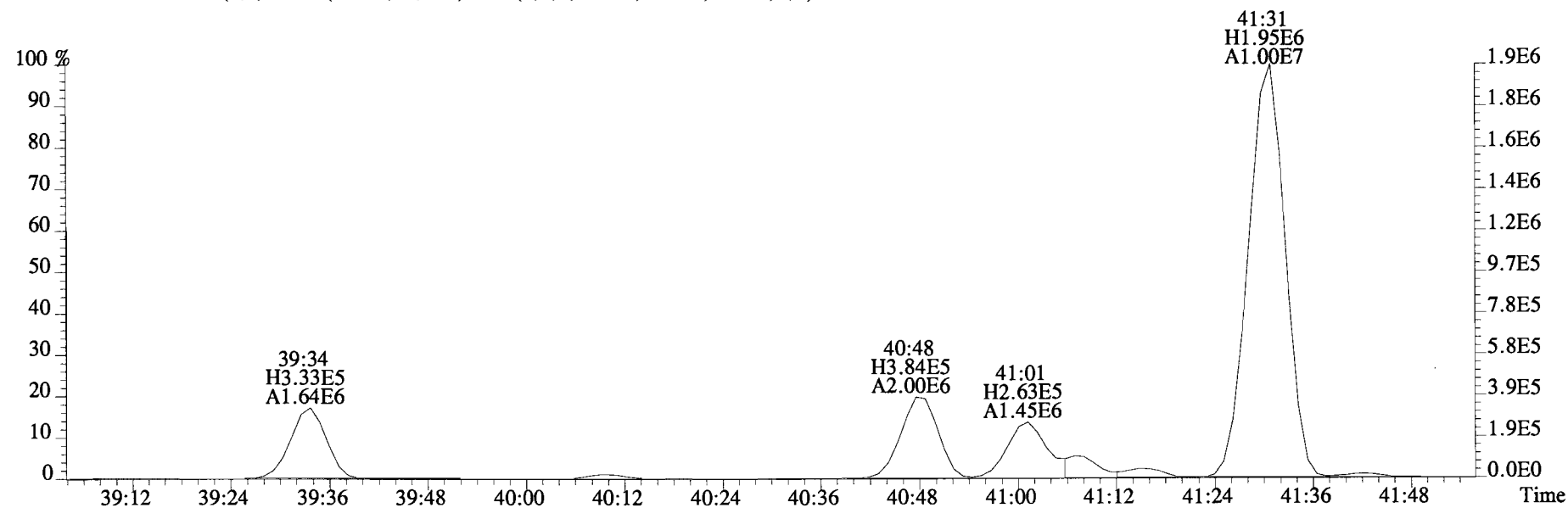
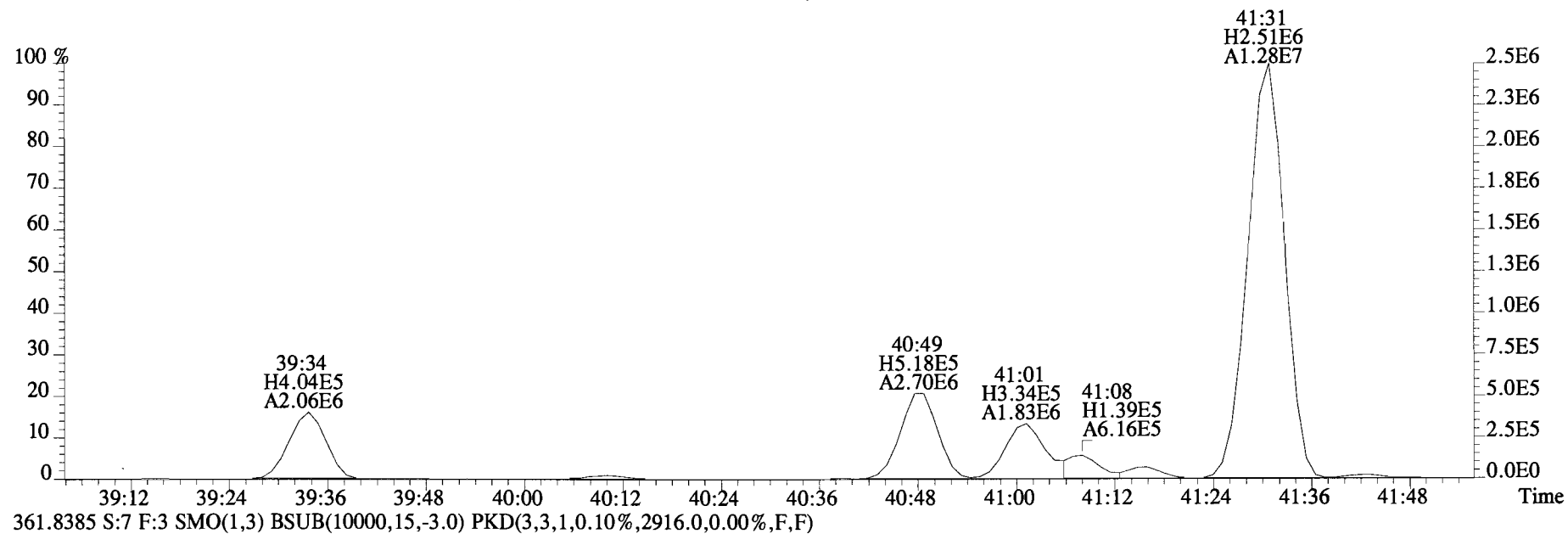
File:141226E1 #1-761 Acq:26-DEC-2014 17:49:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2484.0,0.00%,F,F)



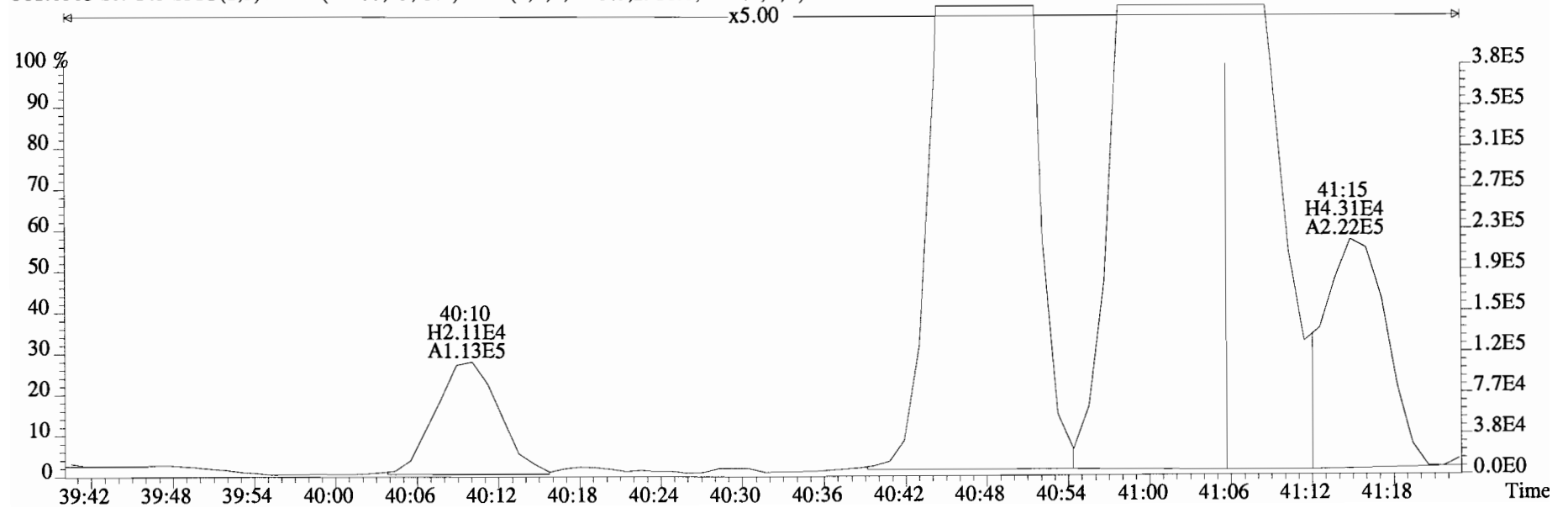
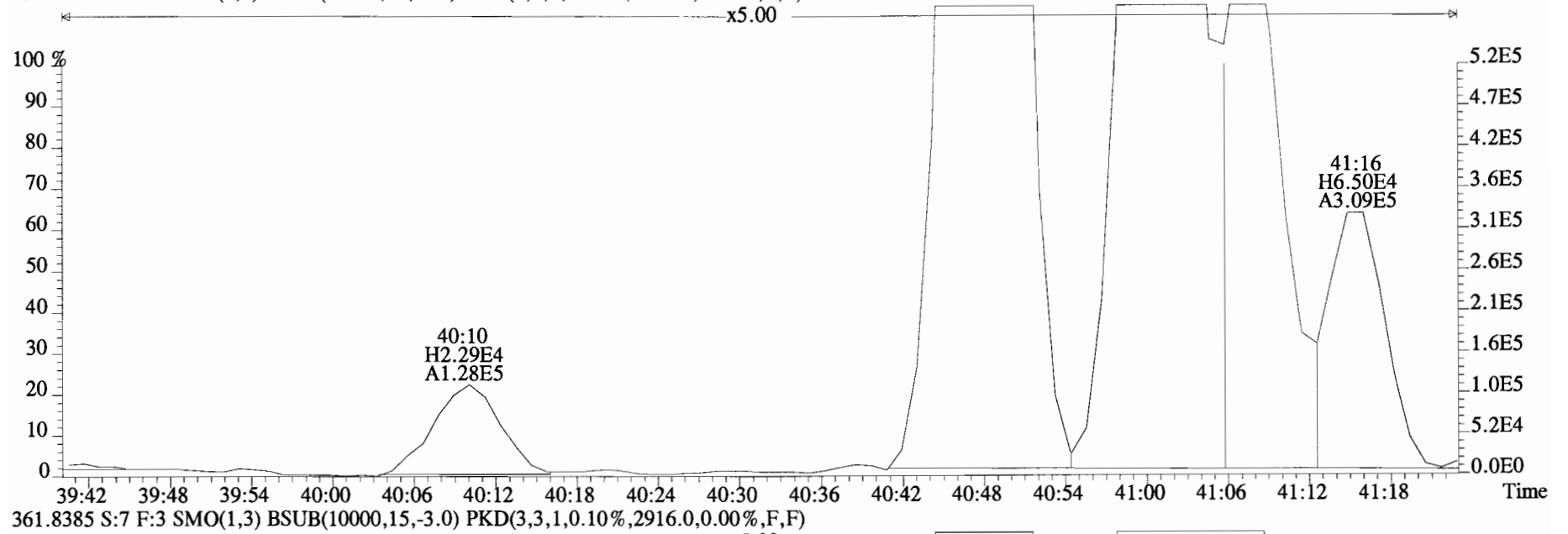
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Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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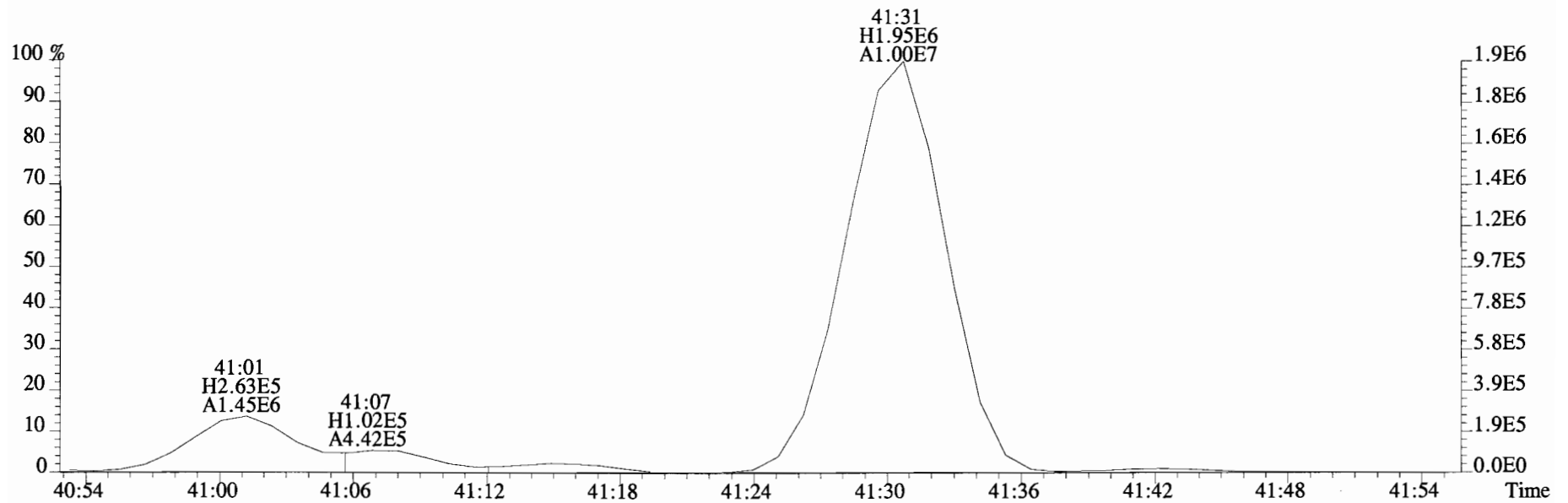
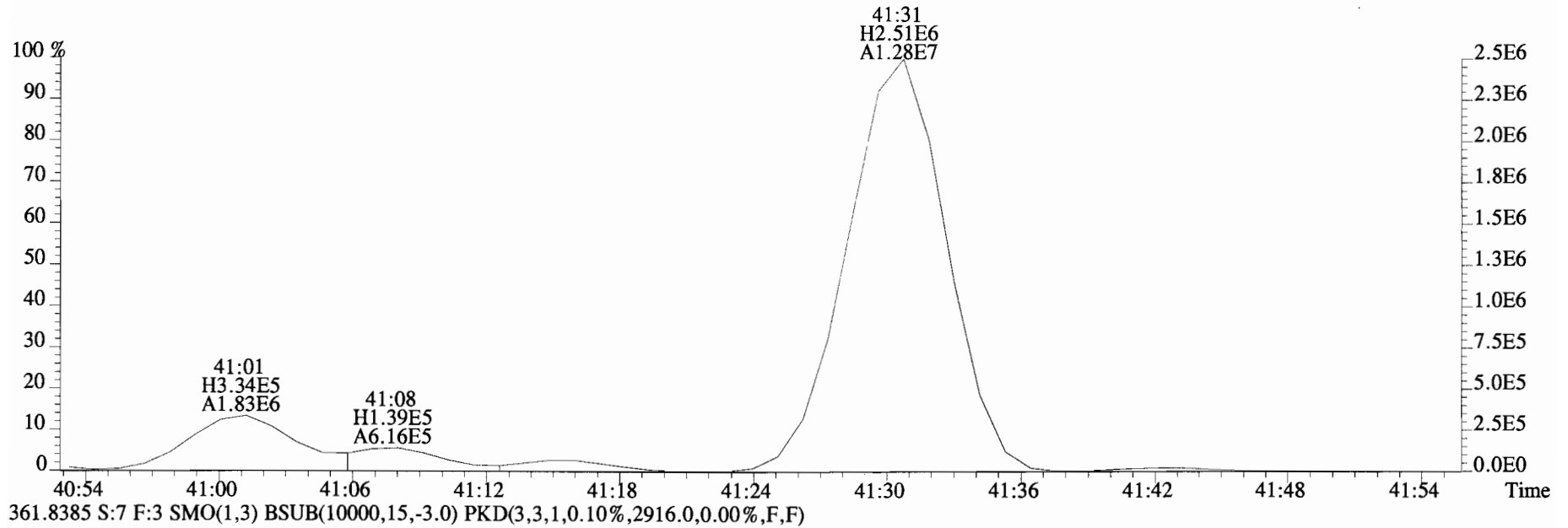
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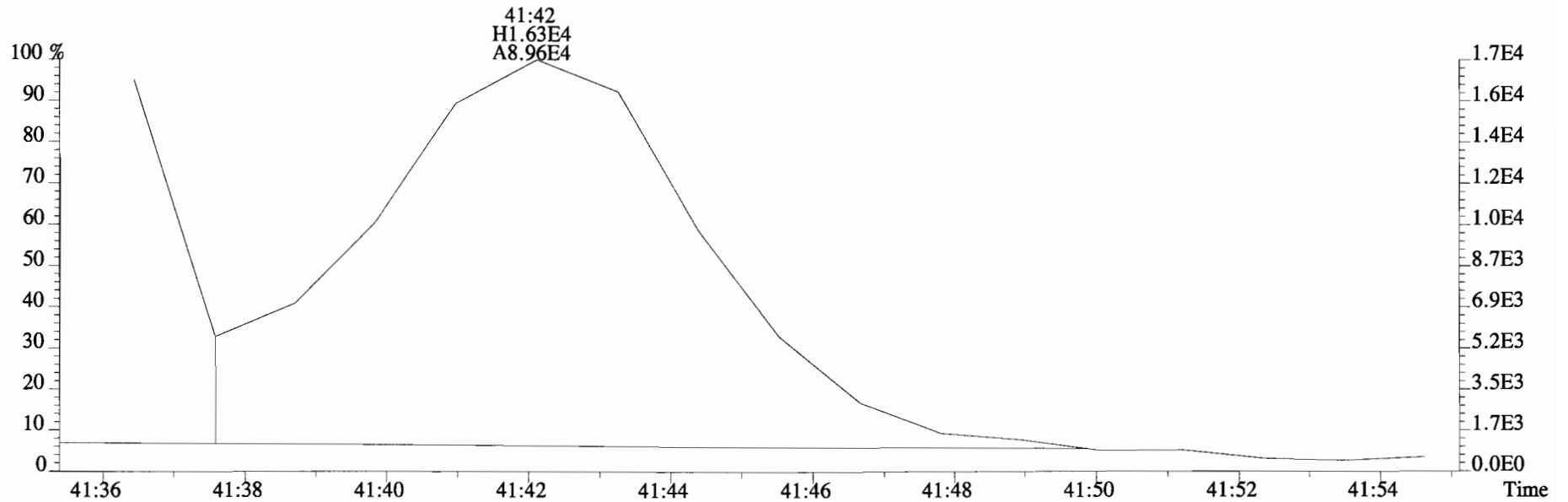
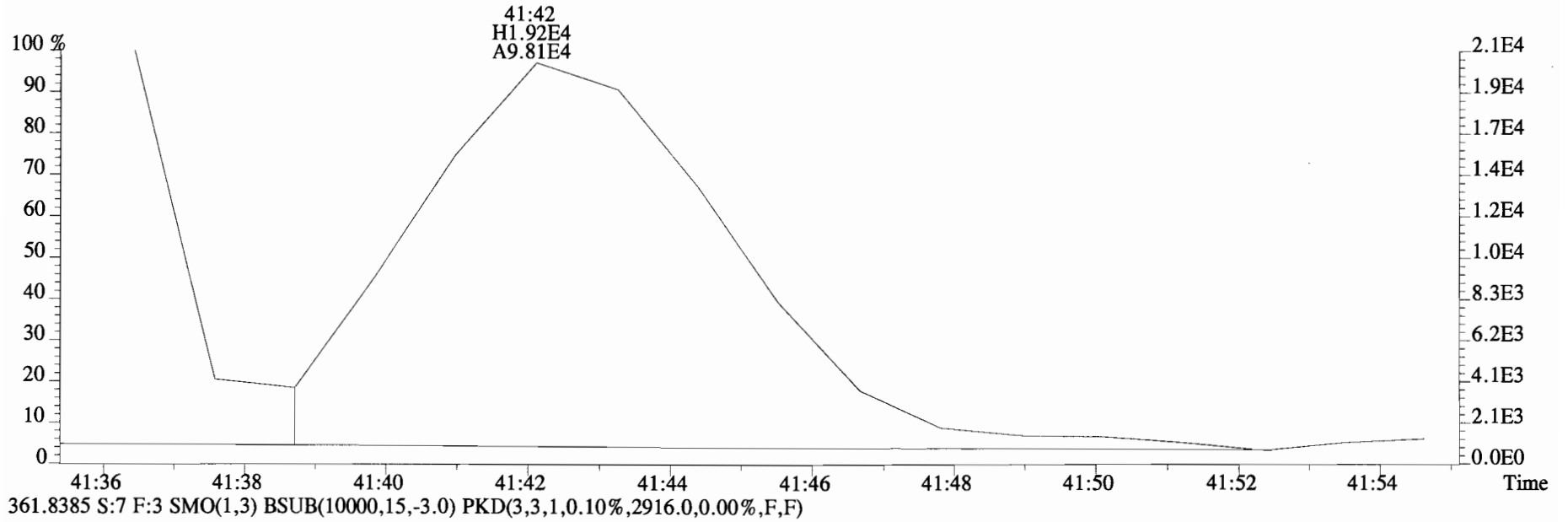
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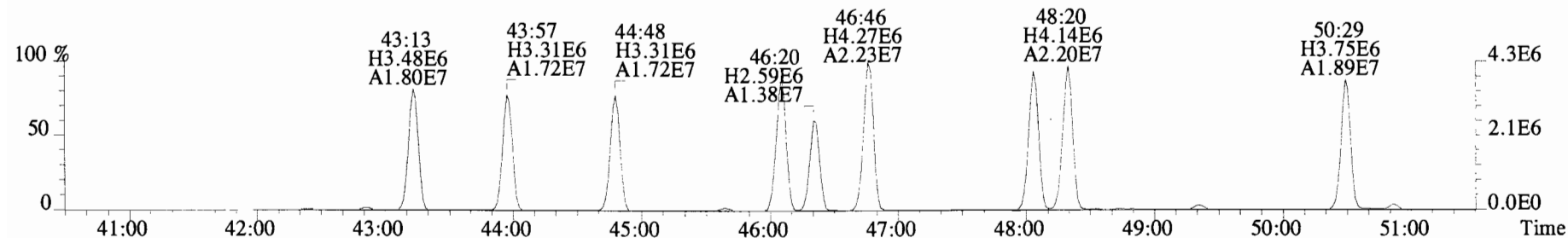
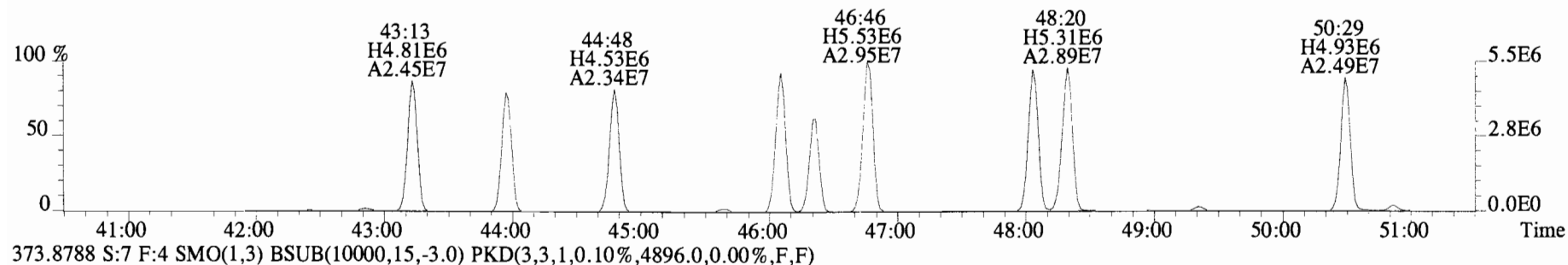
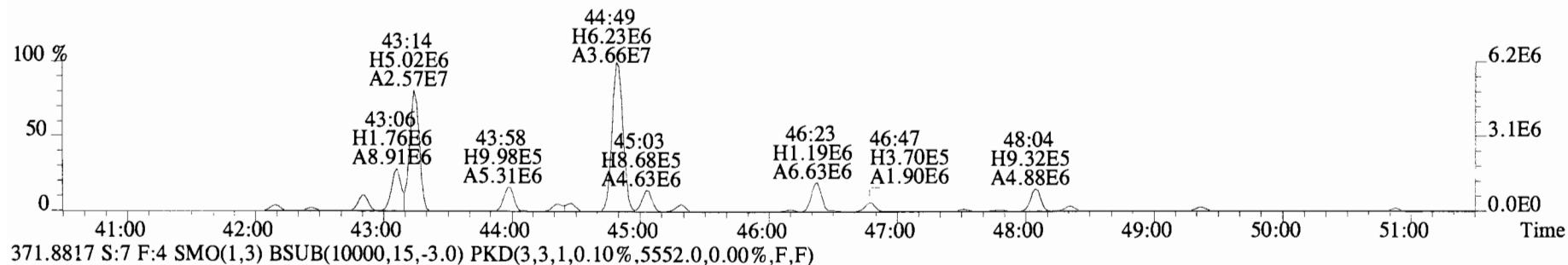
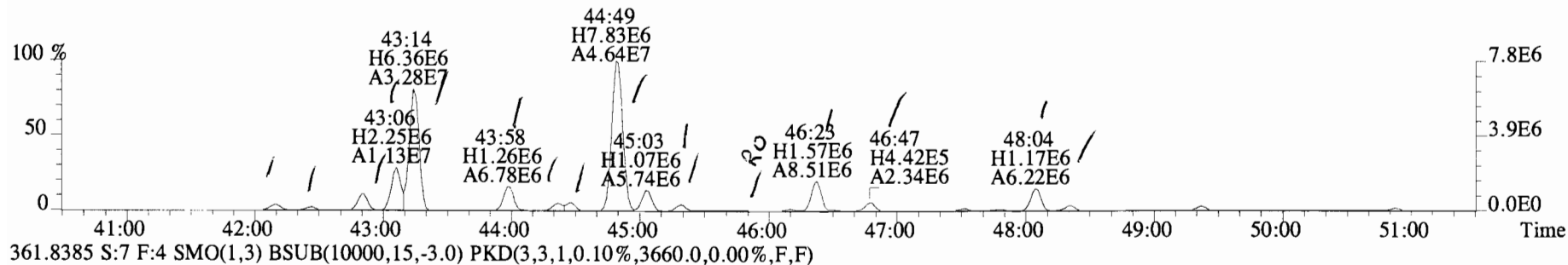
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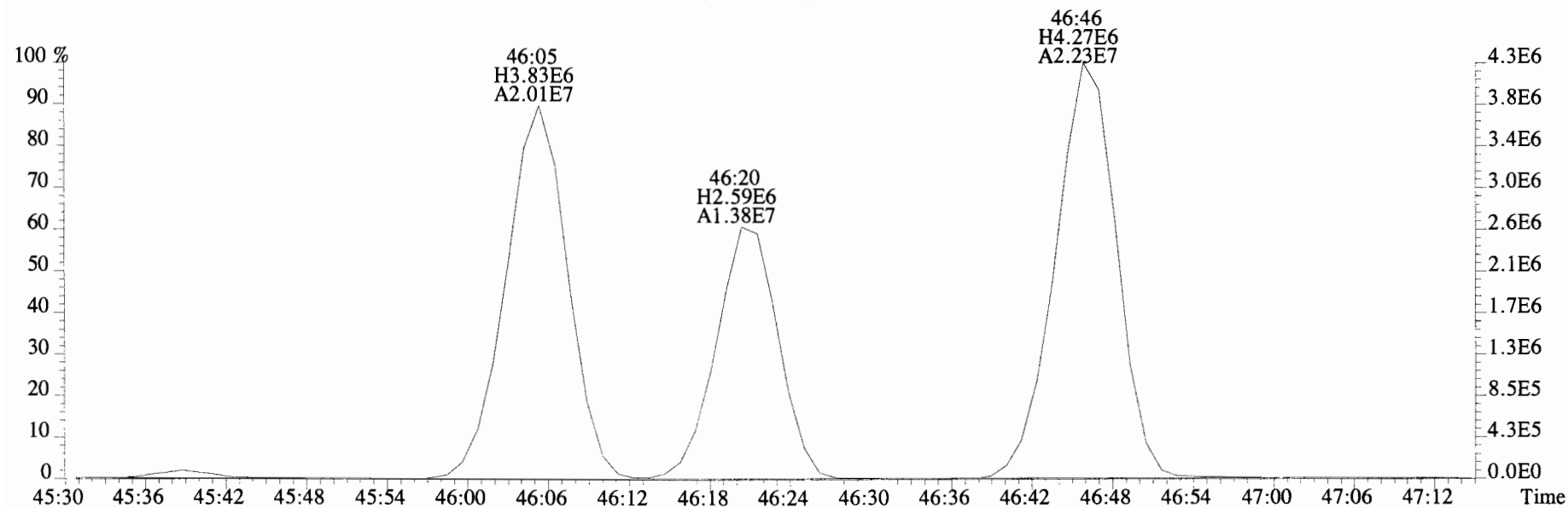
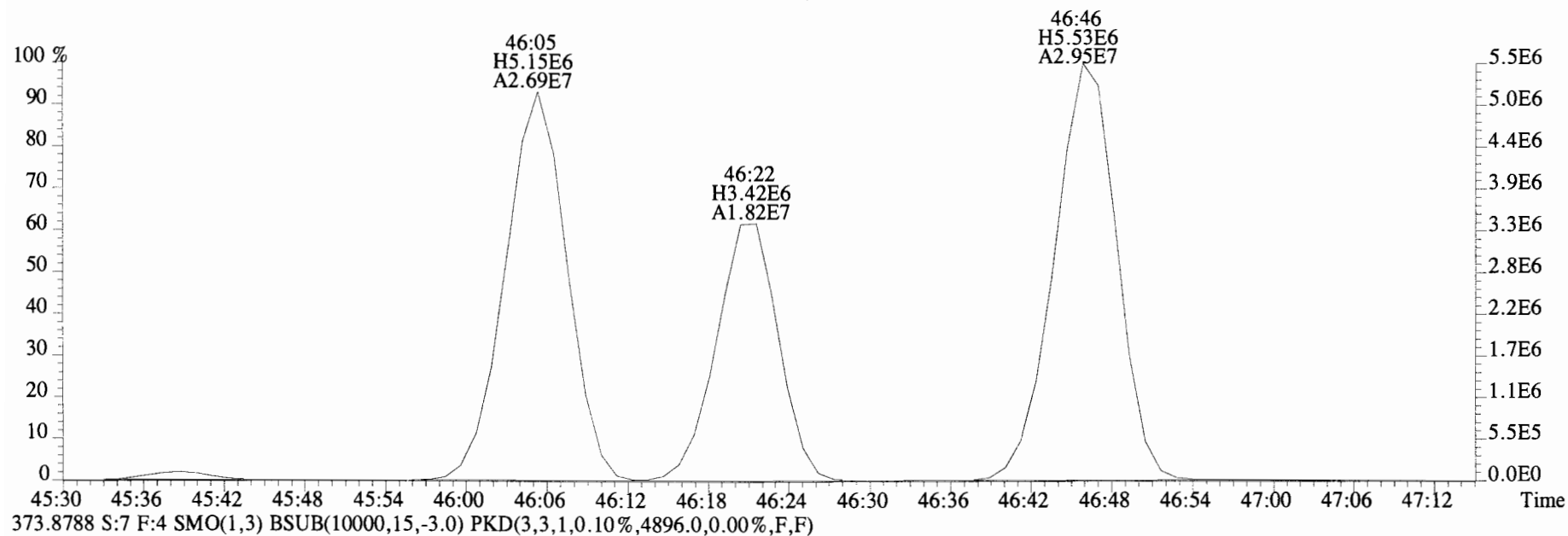
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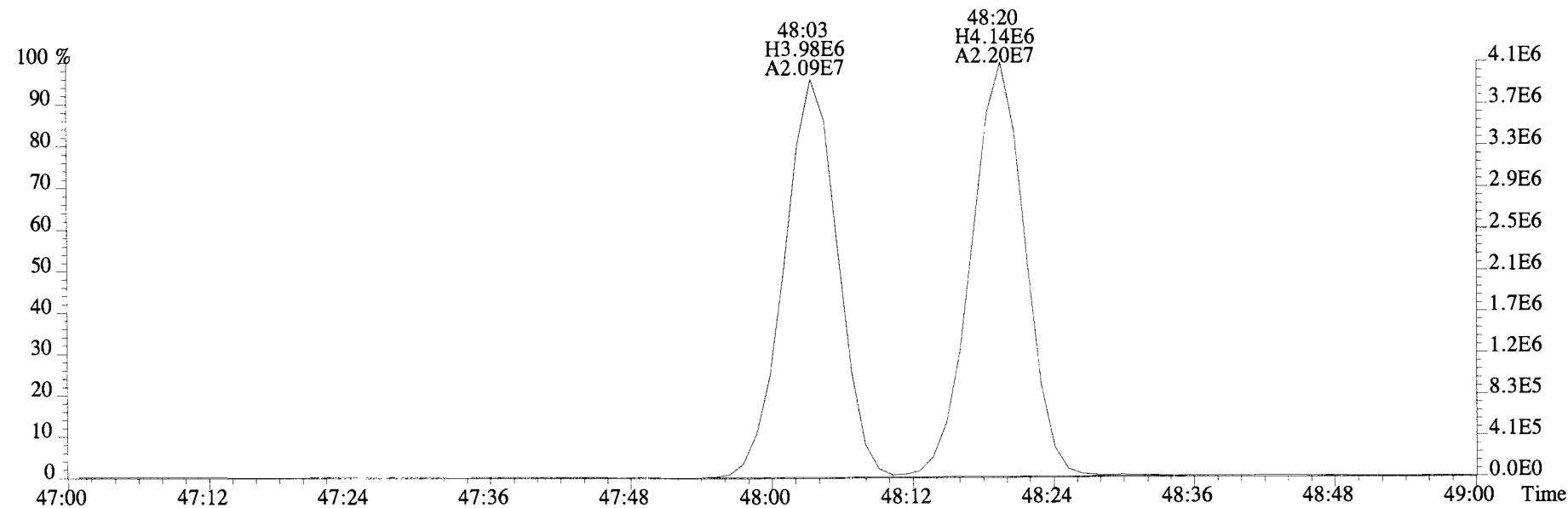
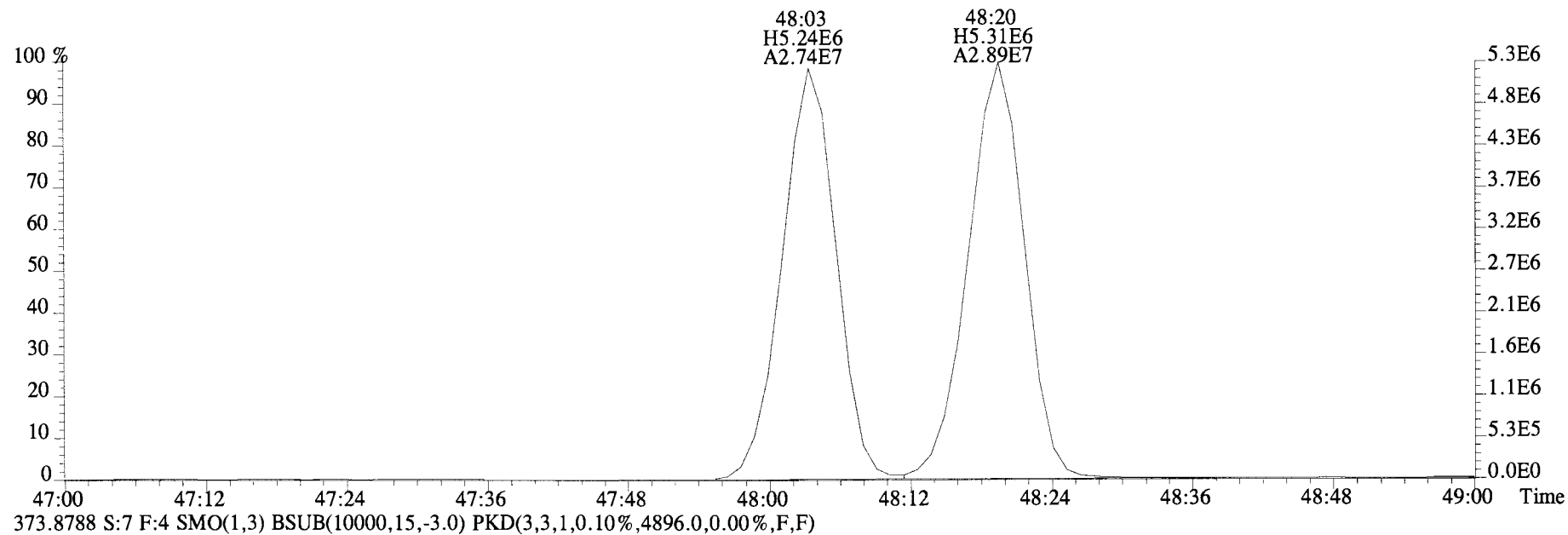
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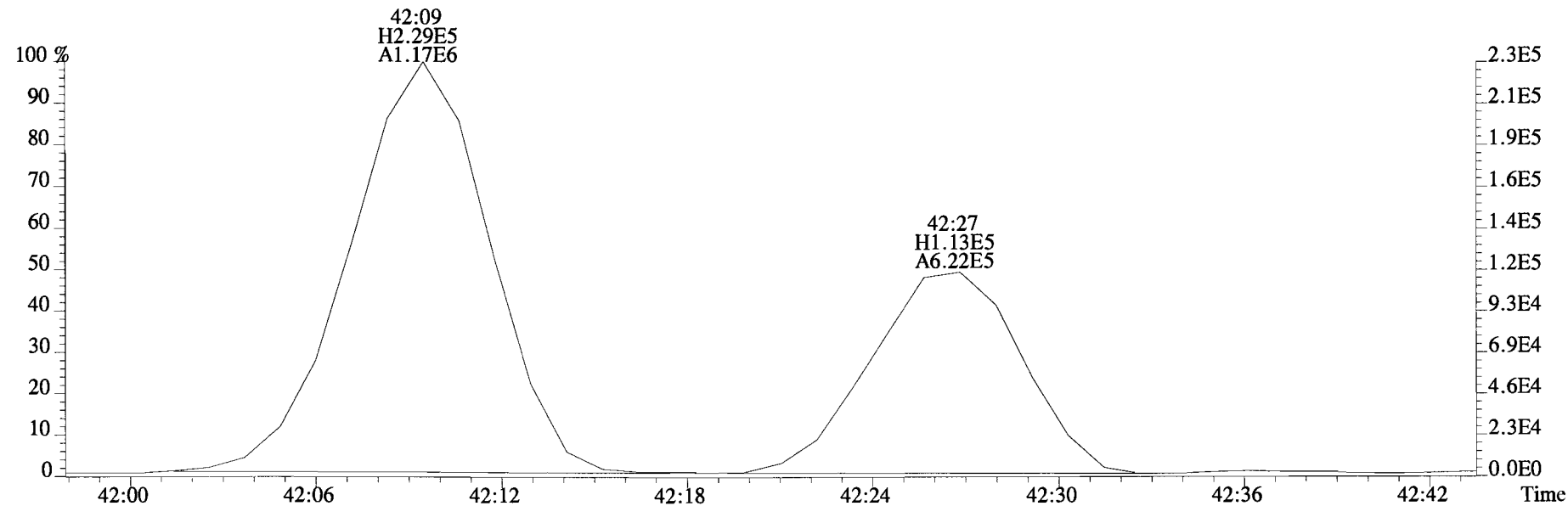
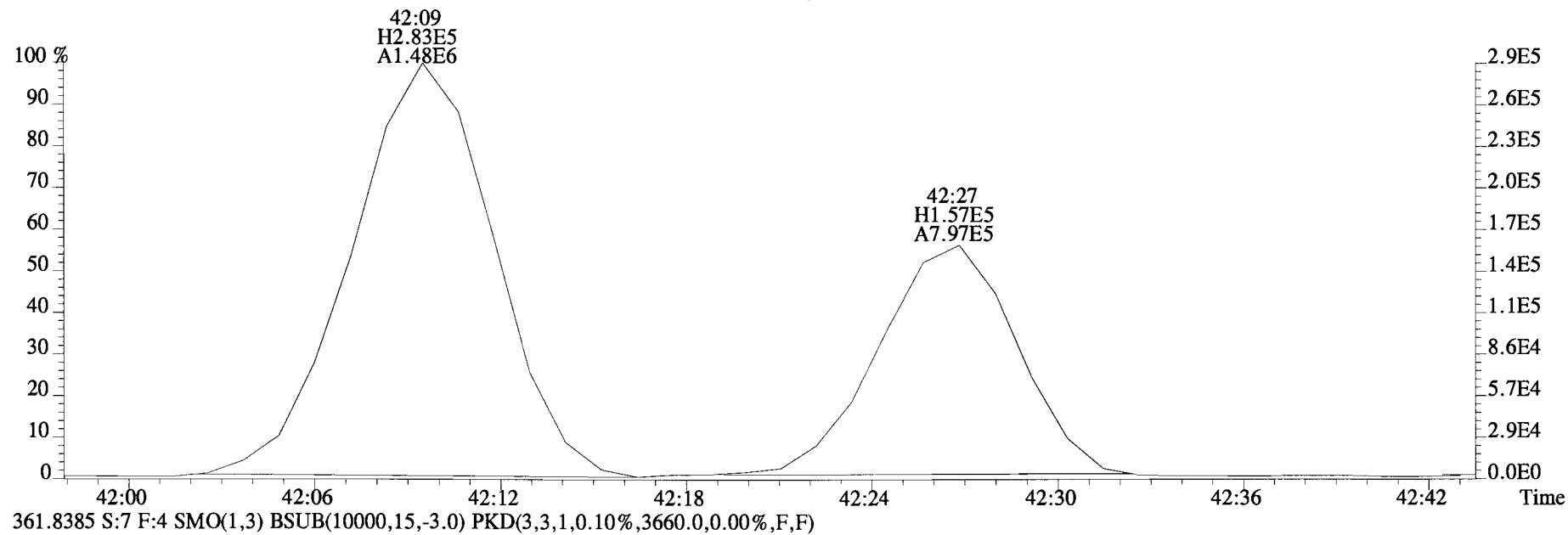
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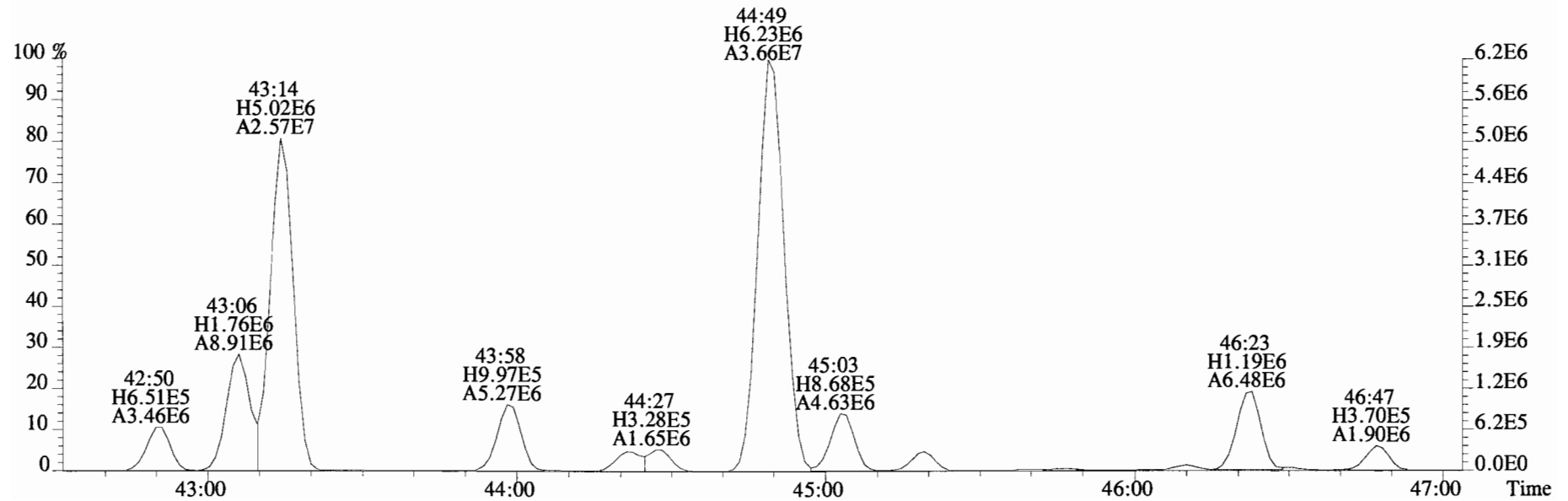
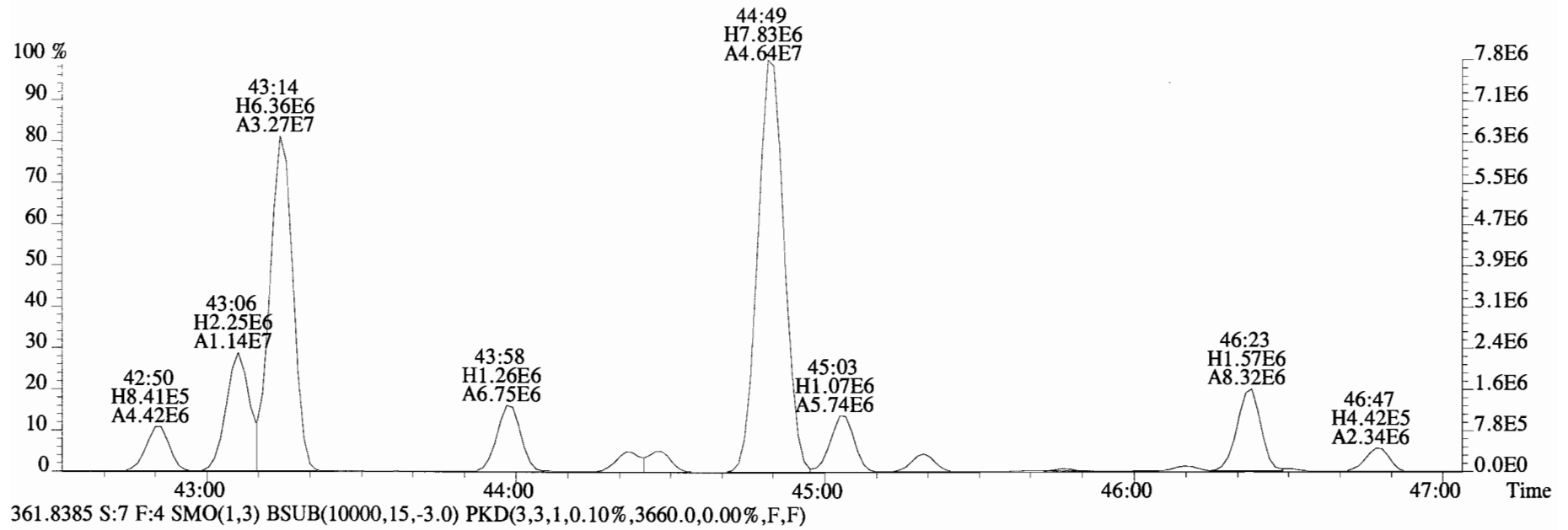
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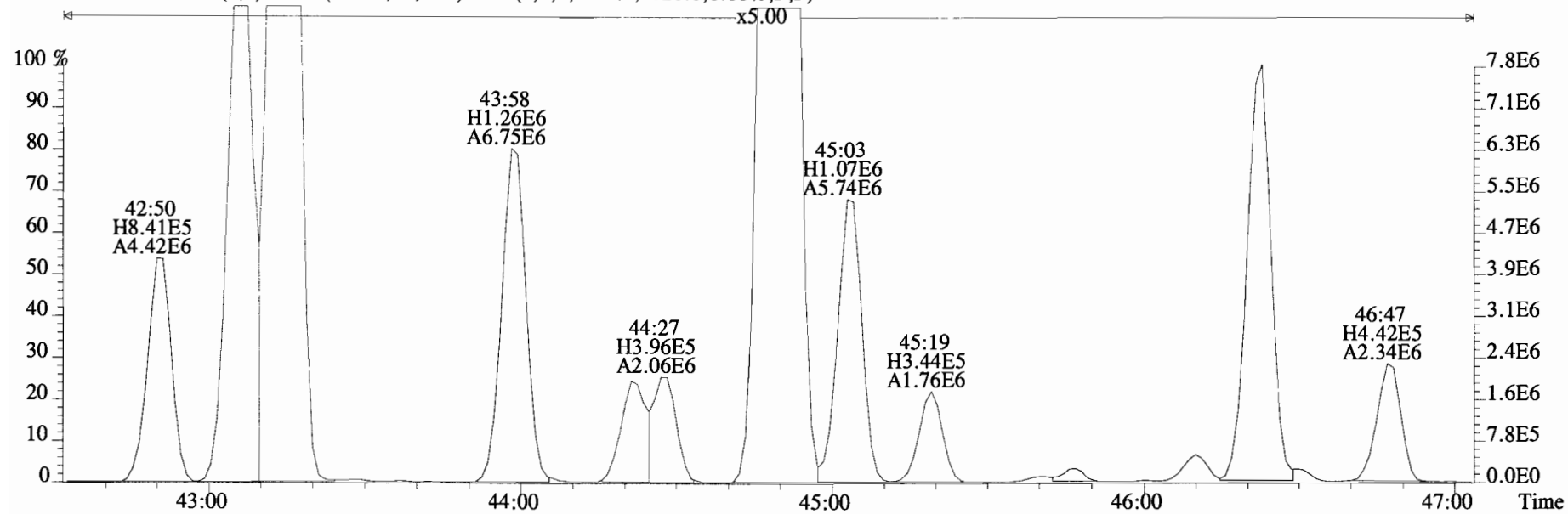
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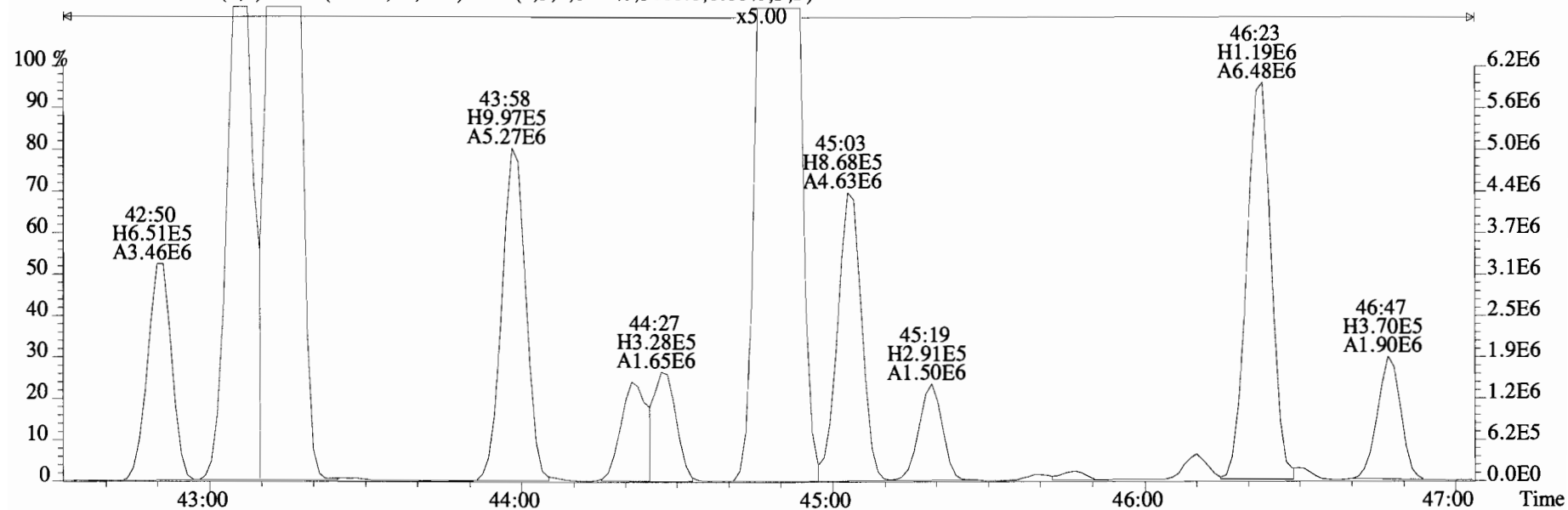
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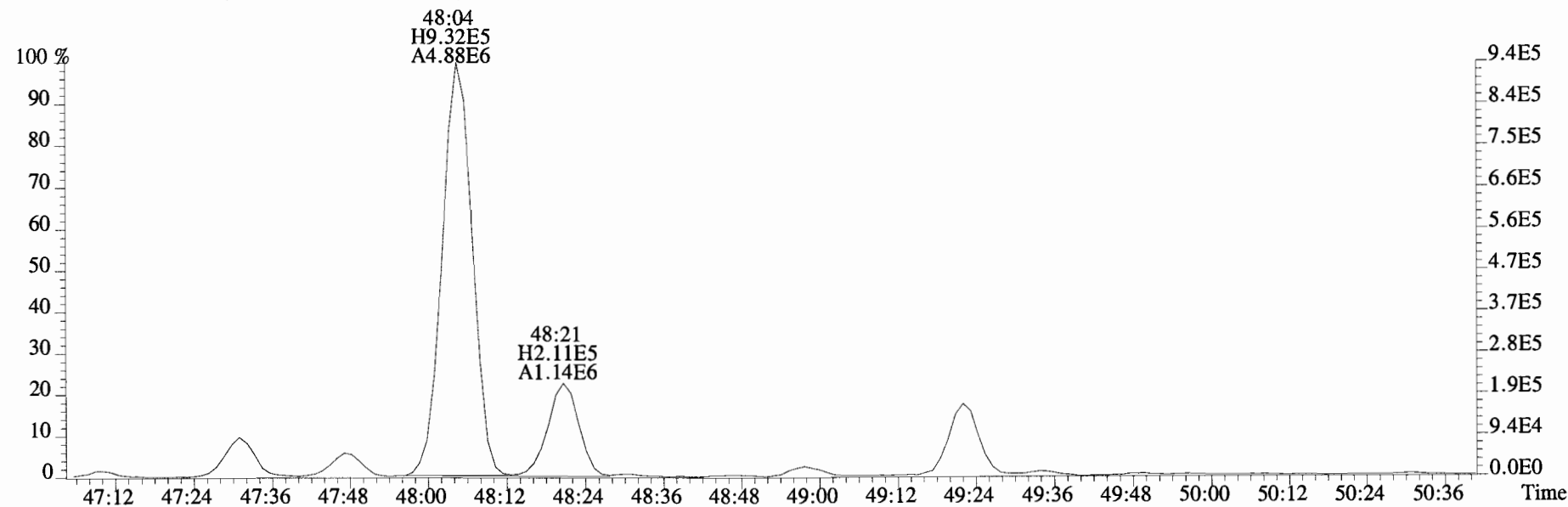
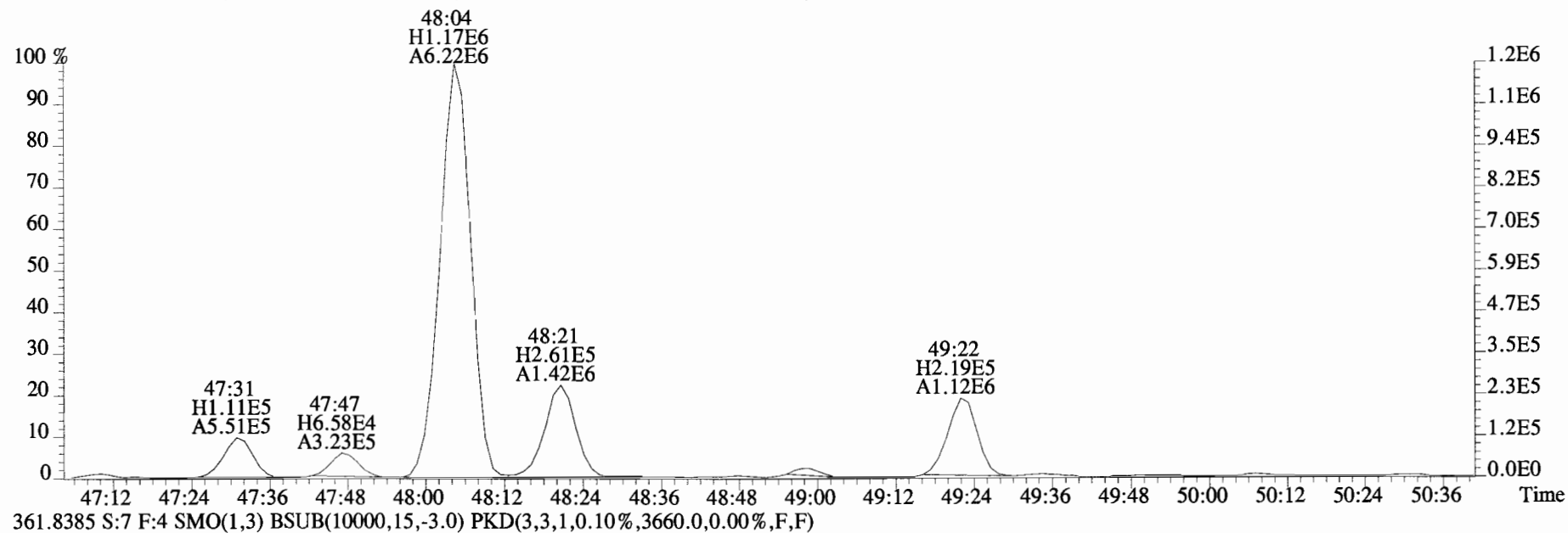
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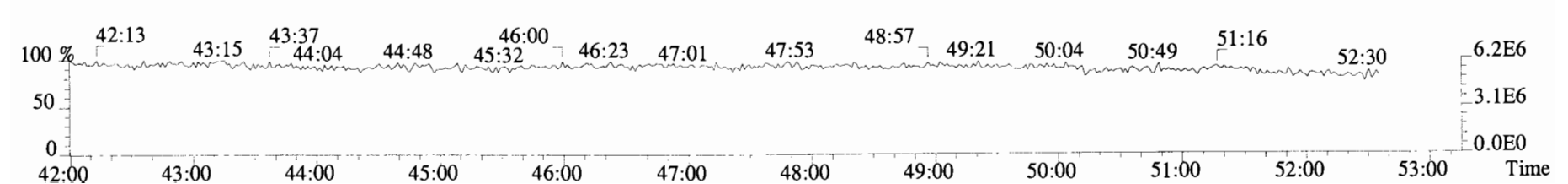
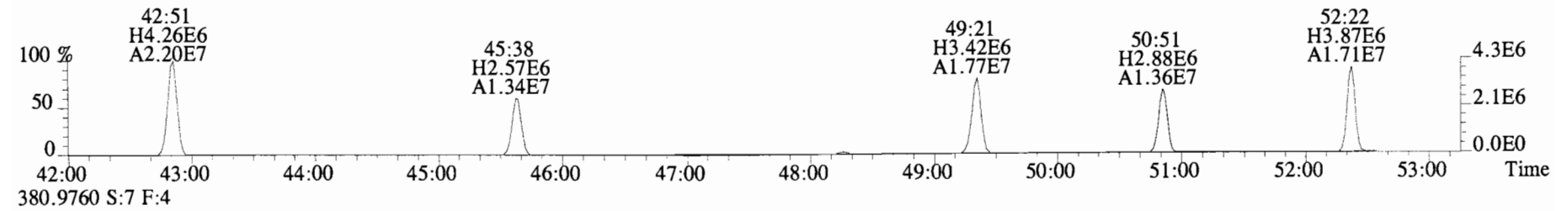
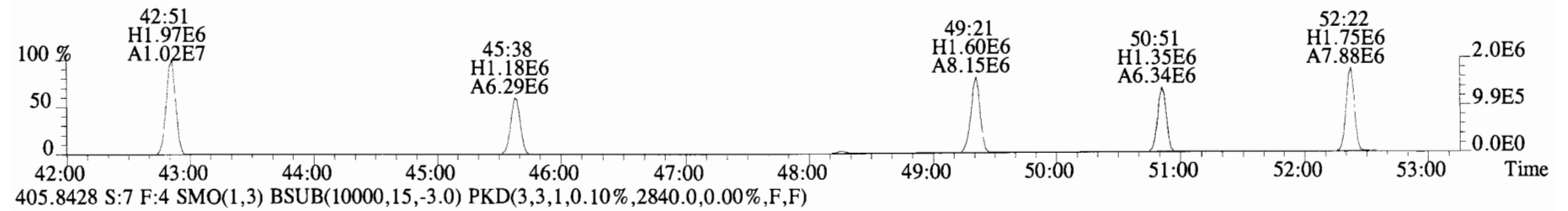
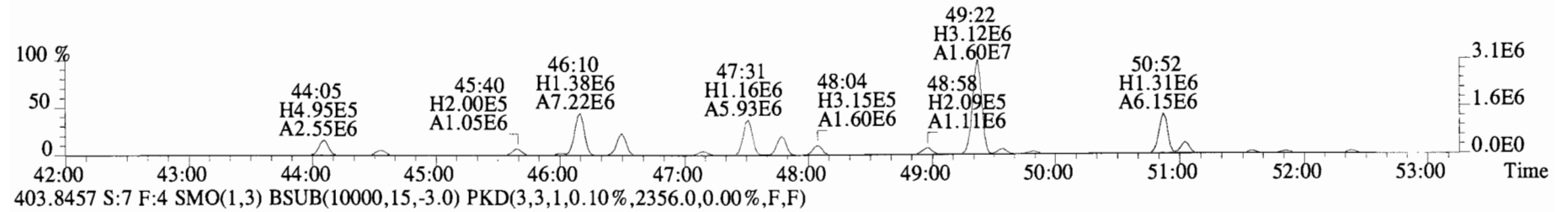
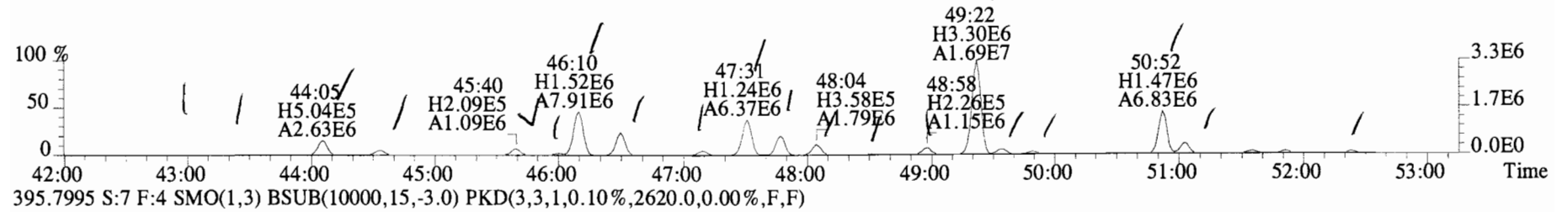
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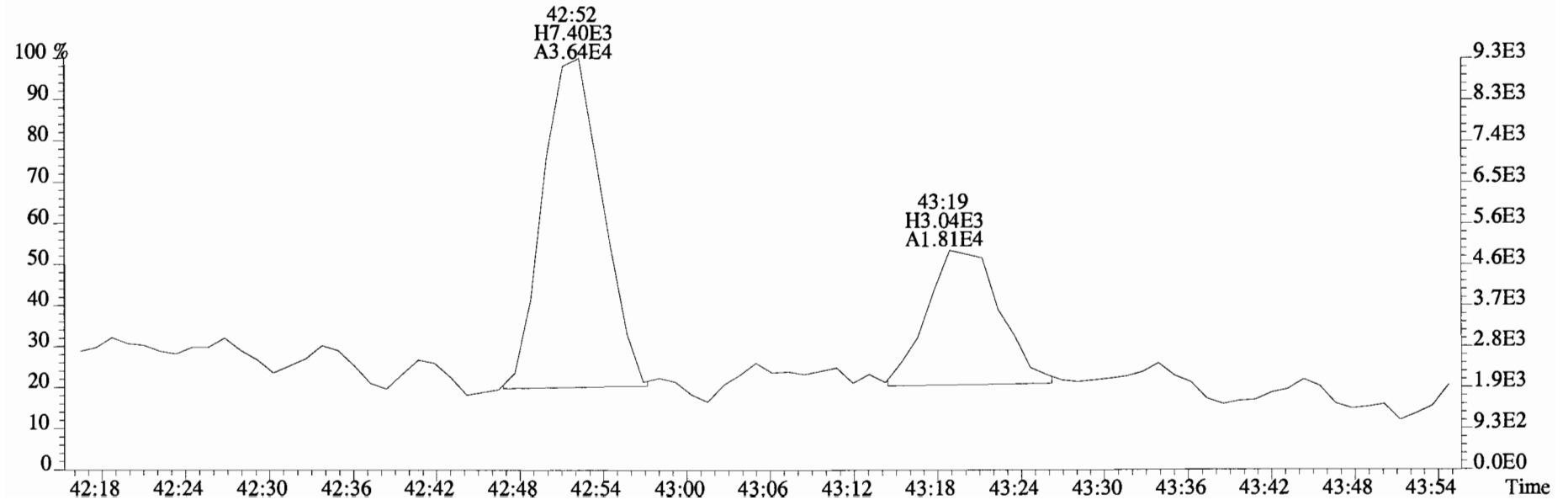
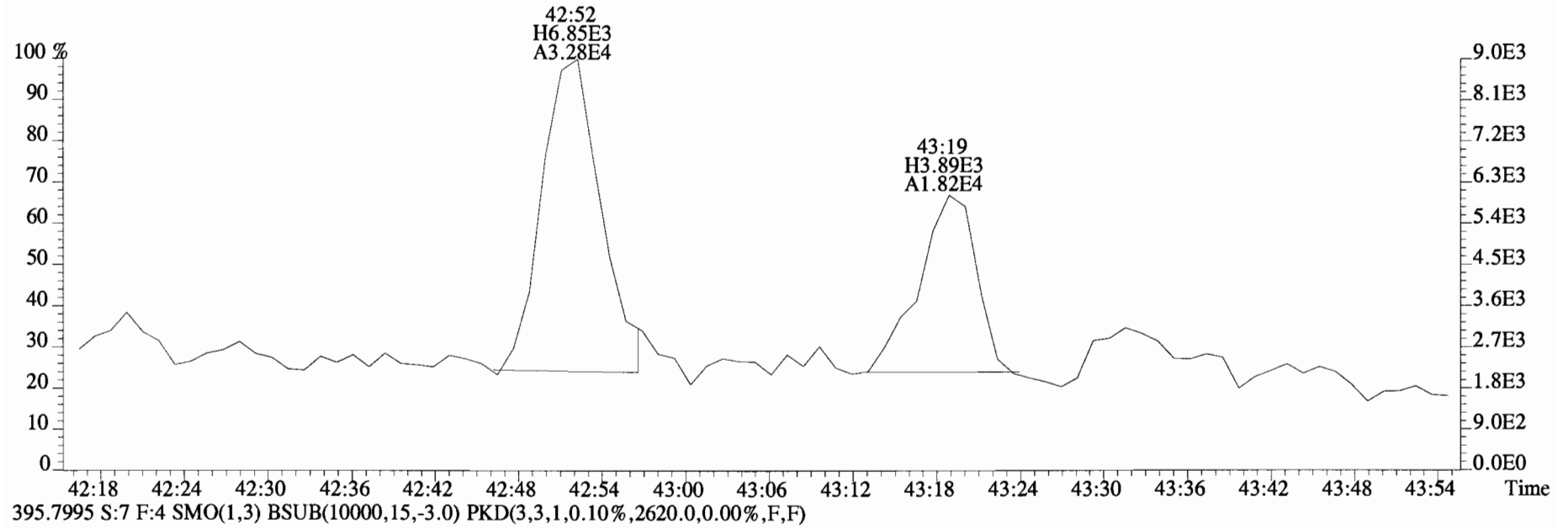
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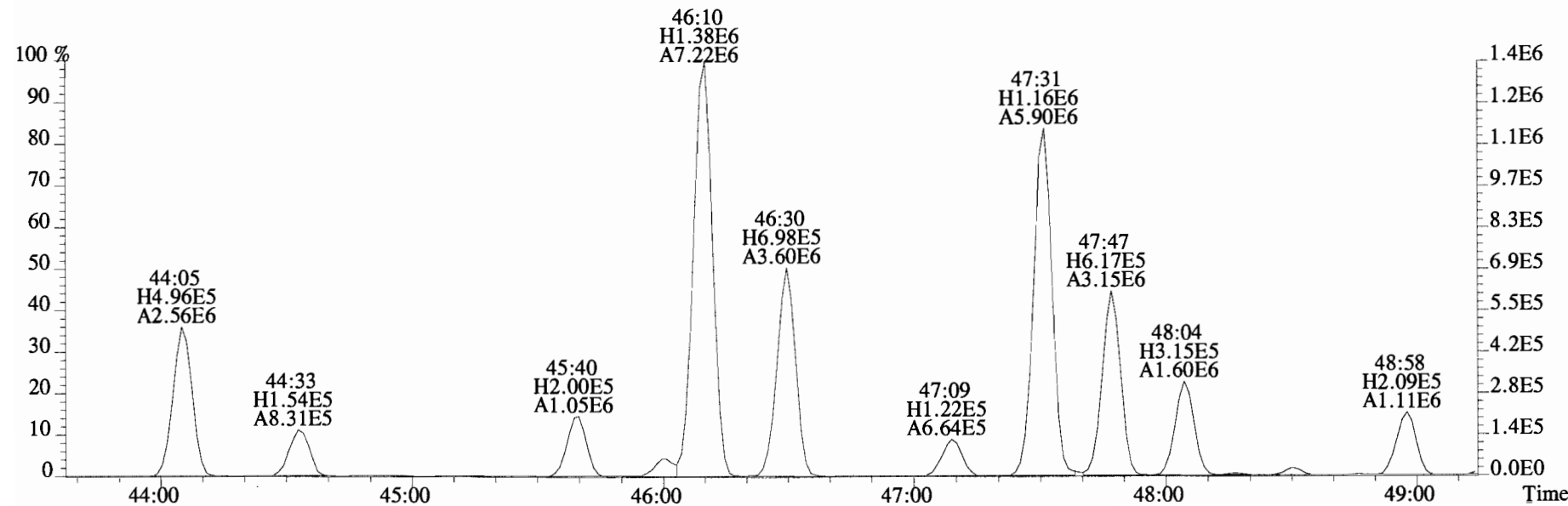
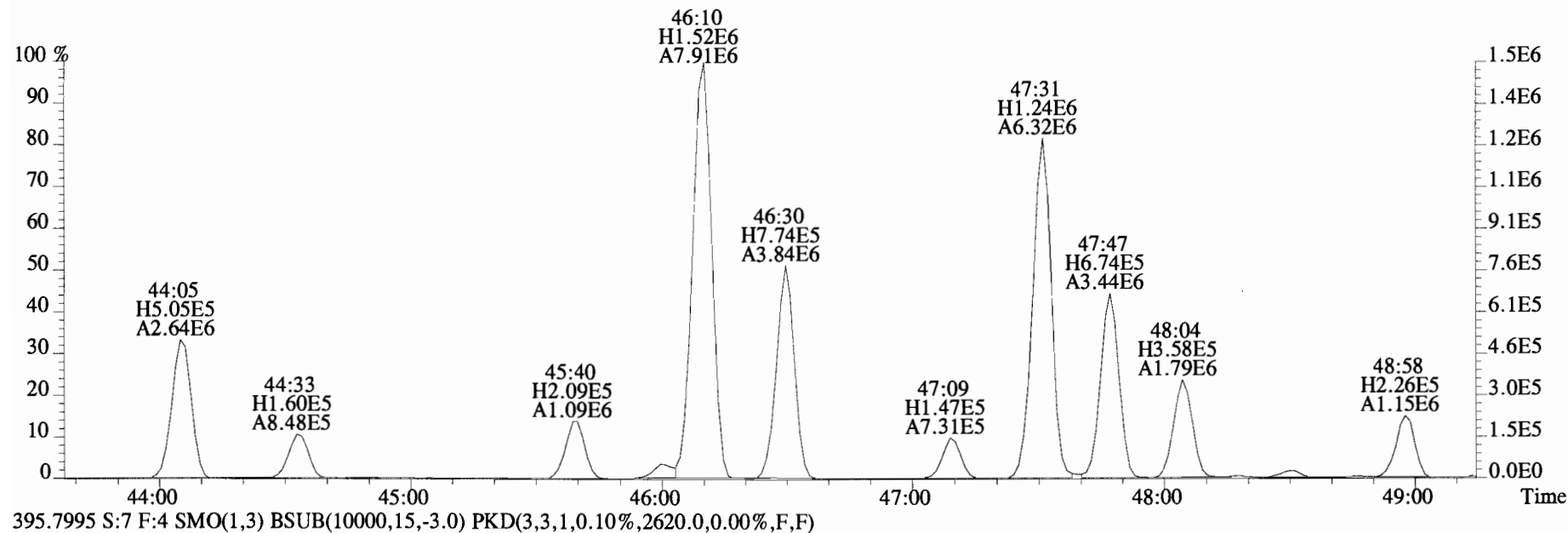
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393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2928.0,0.00%,F,F)



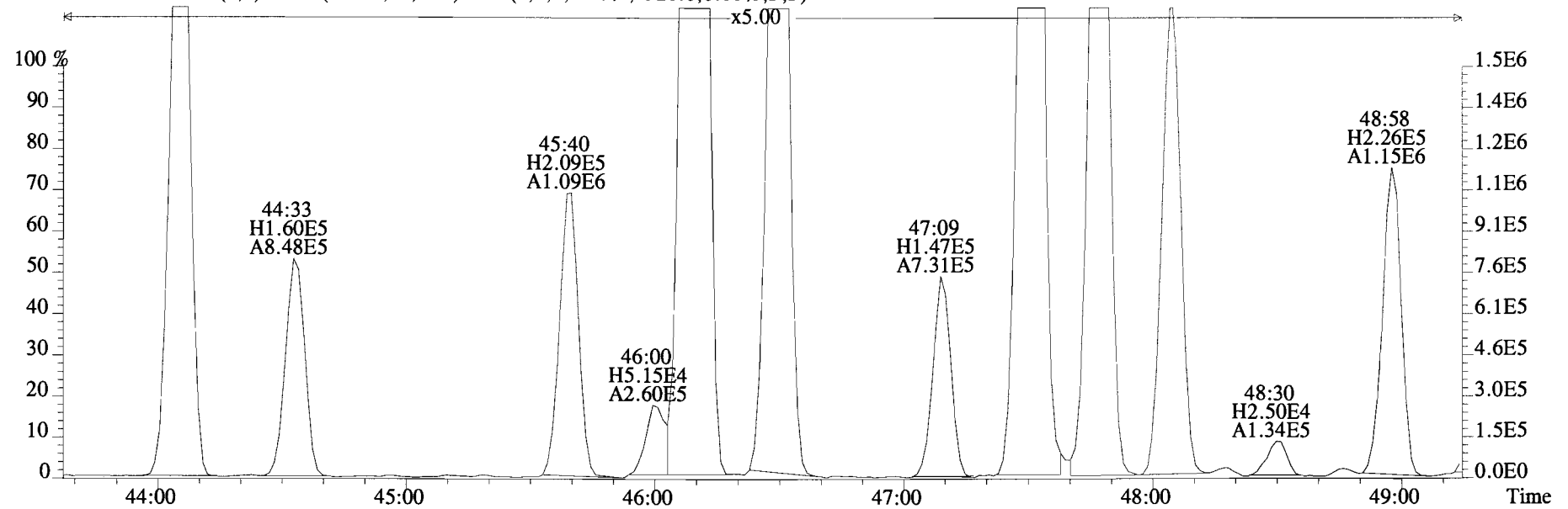
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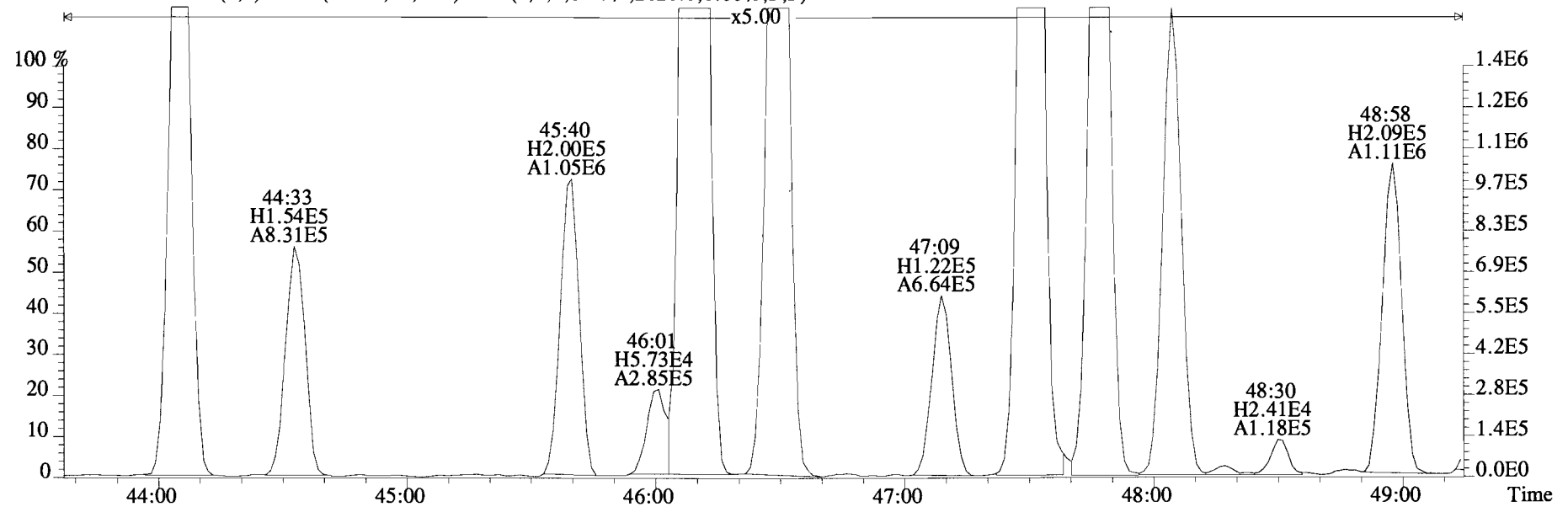
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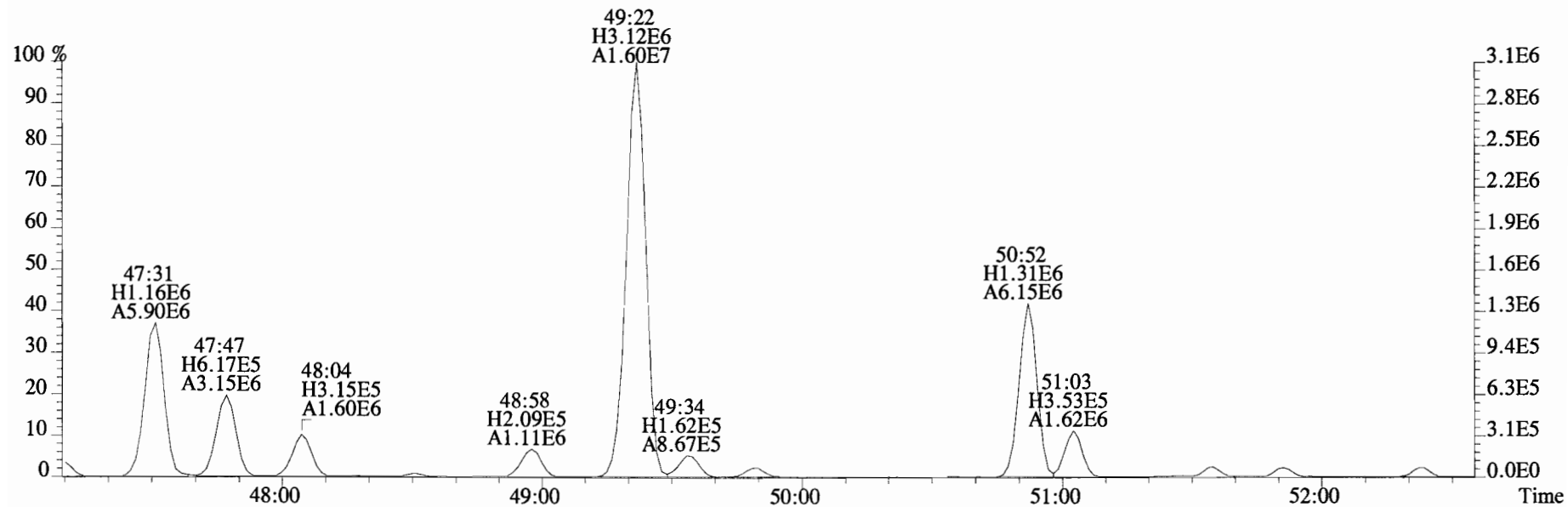
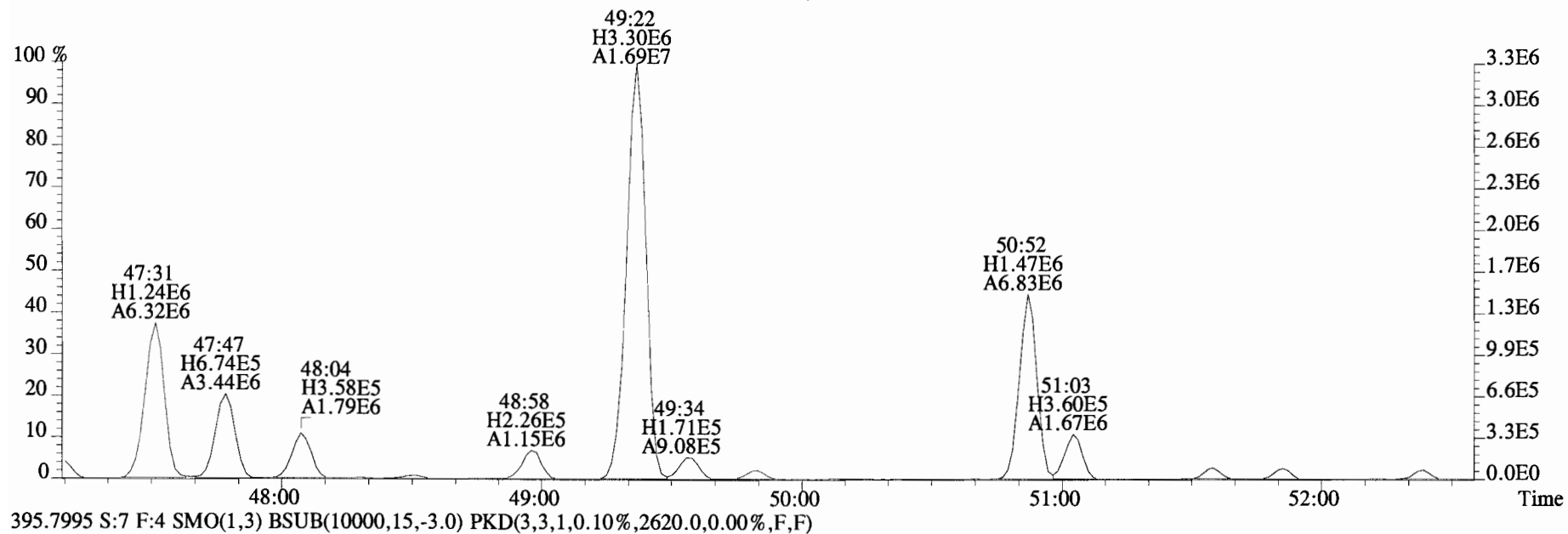
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1400948-04 SC-MH-20-20141211-W 0.99304 Exp:PCB_ZB1
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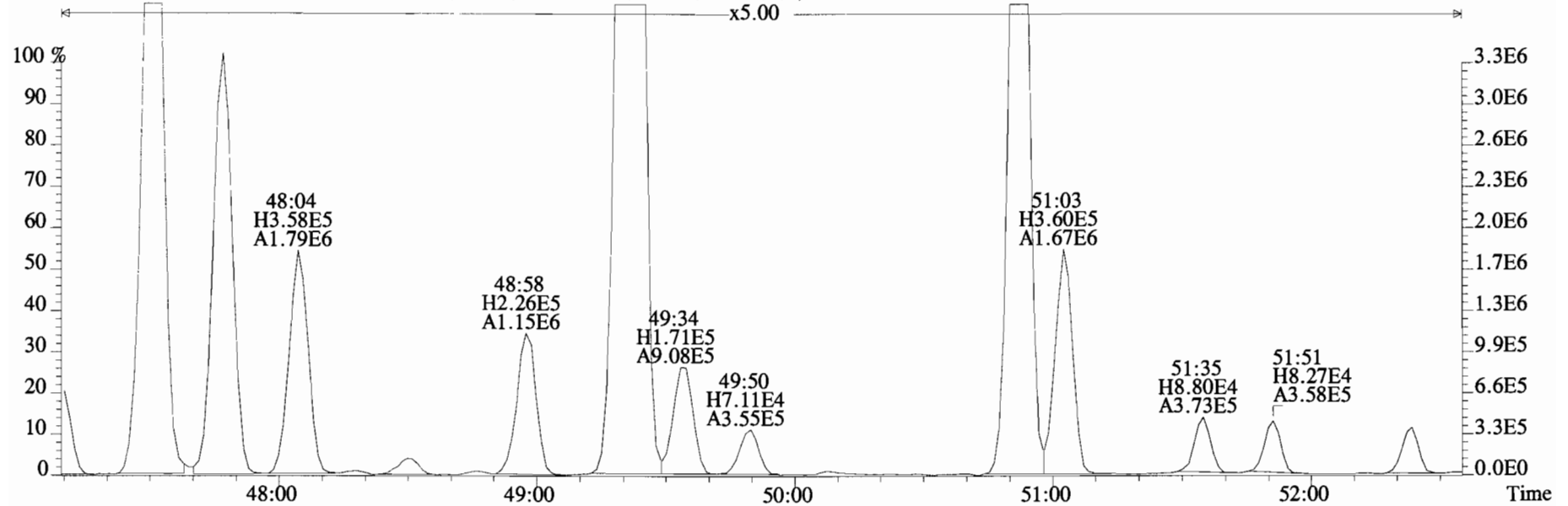
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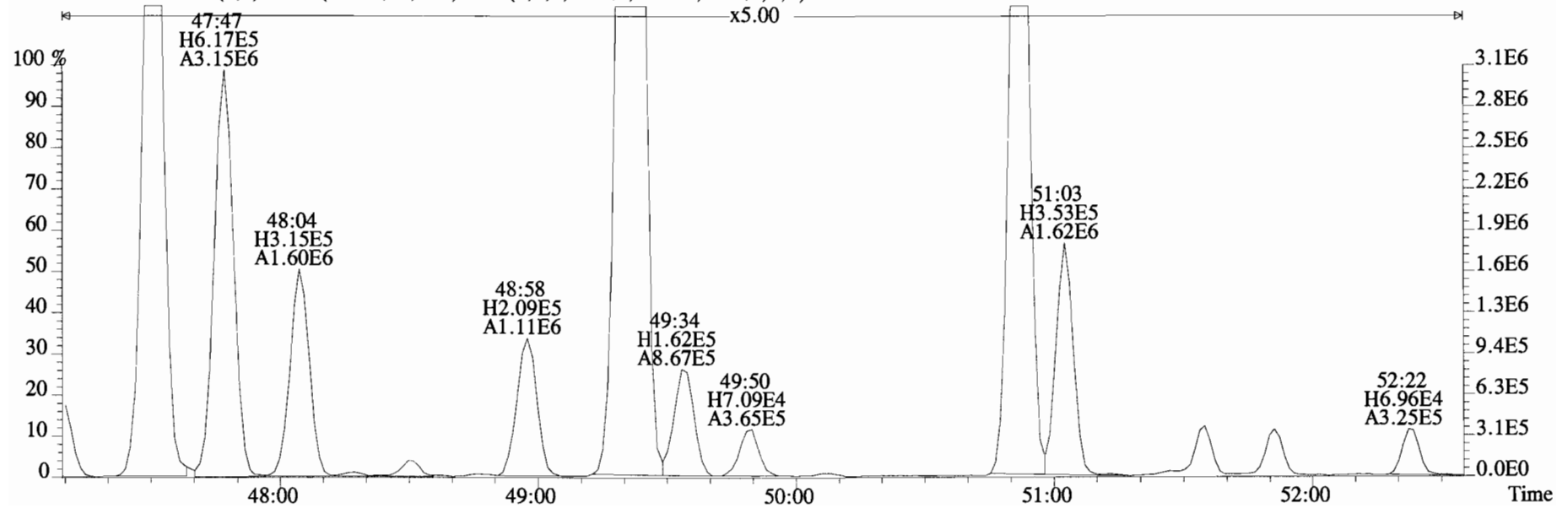
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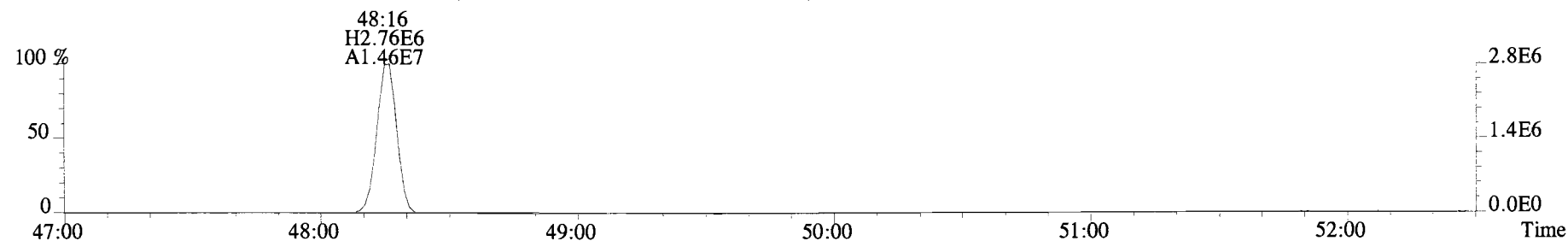
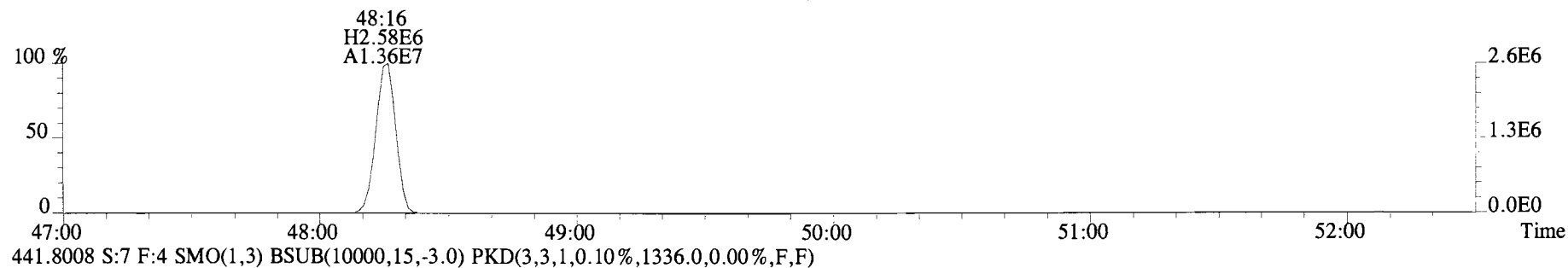
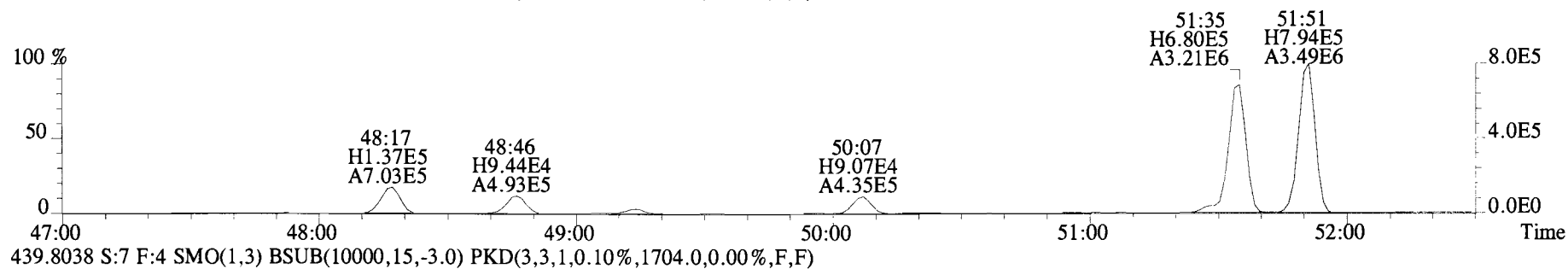
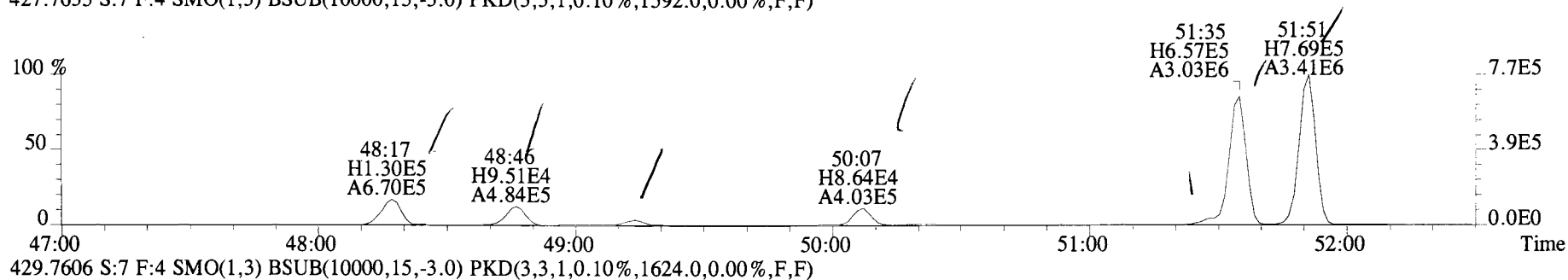
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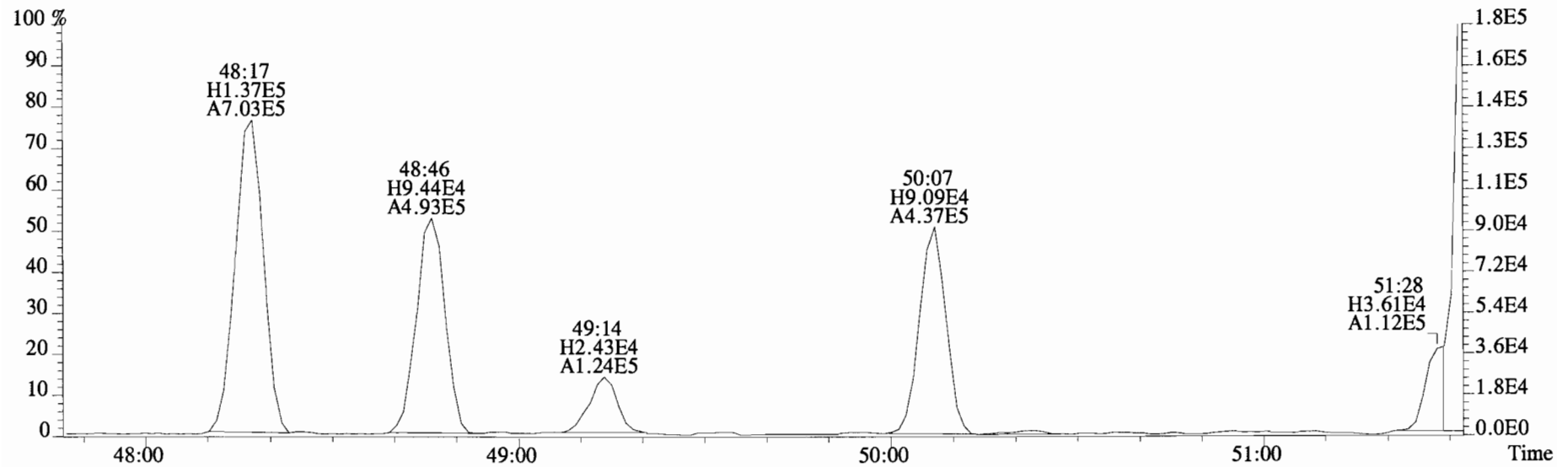
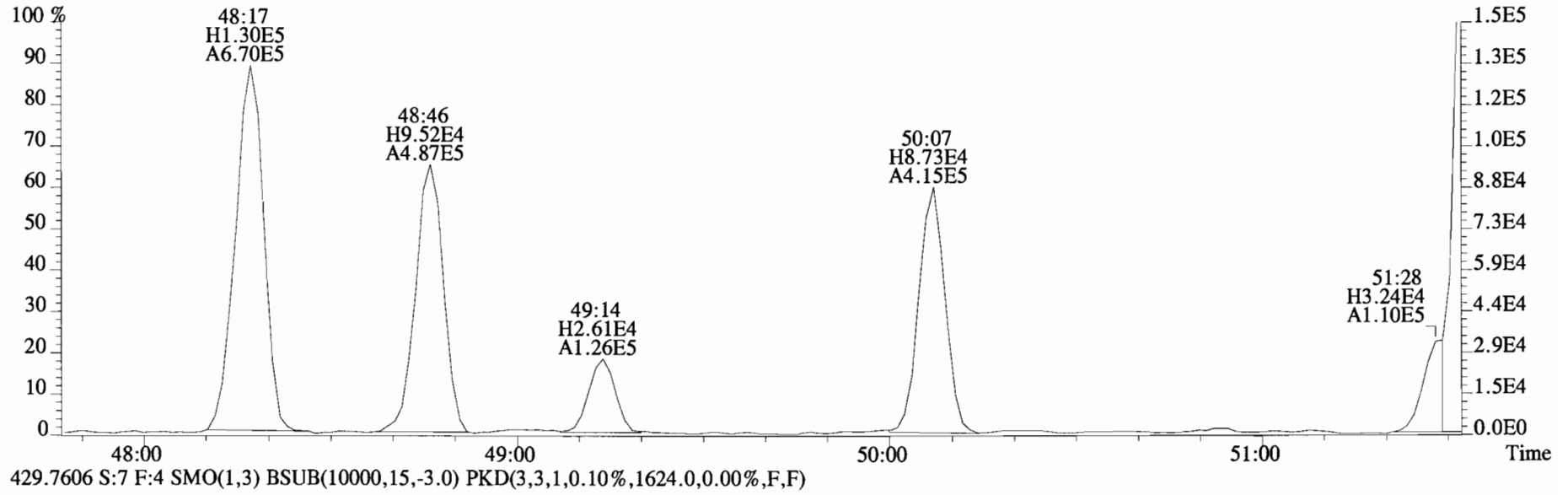
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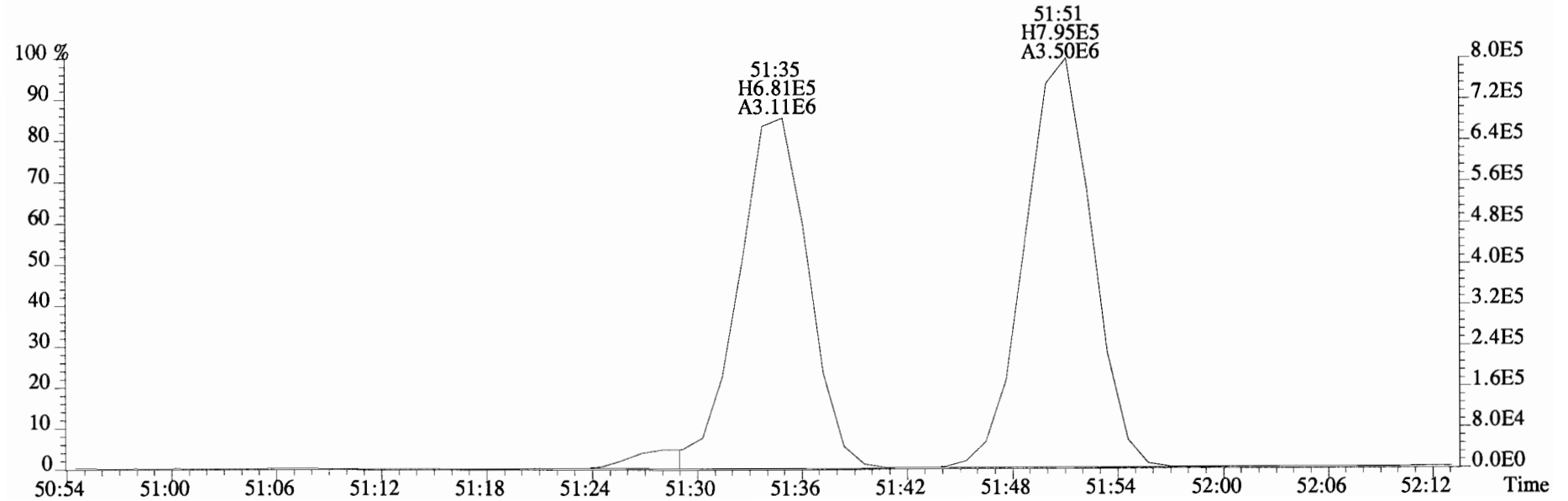
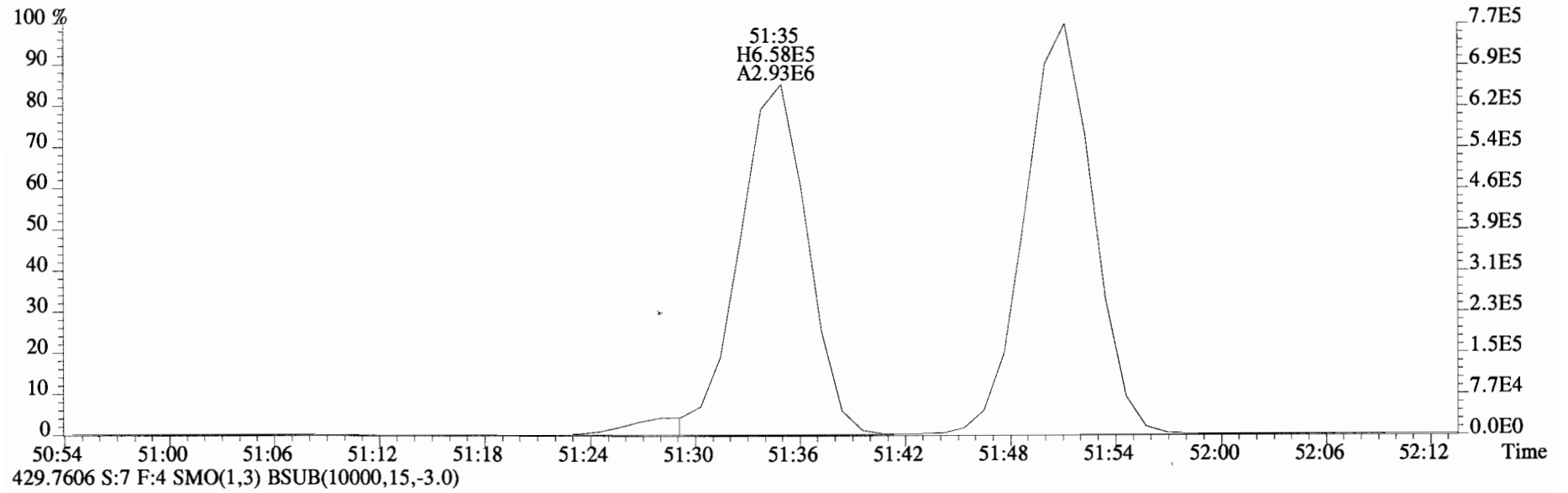
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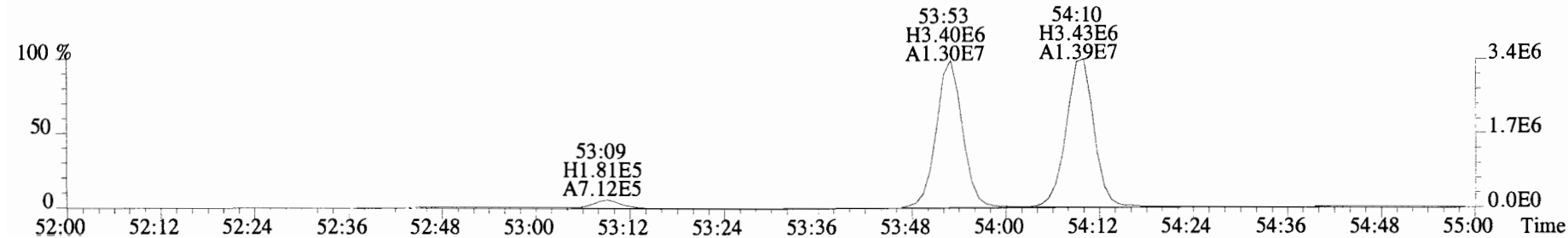
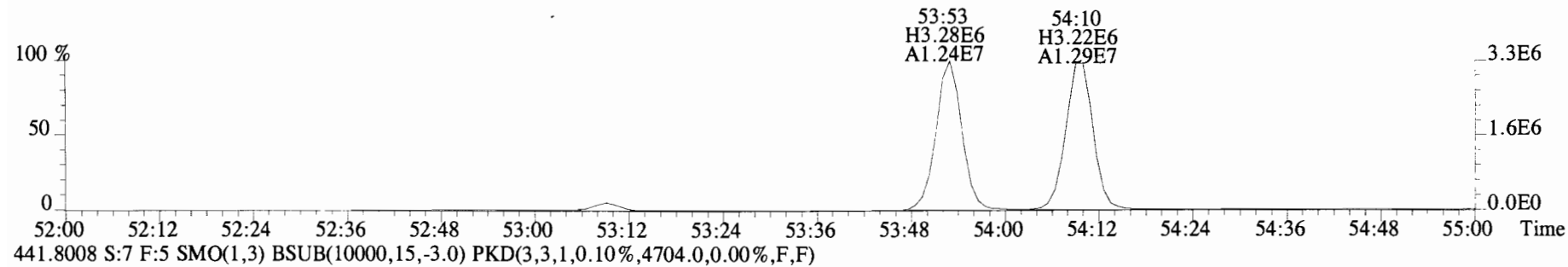
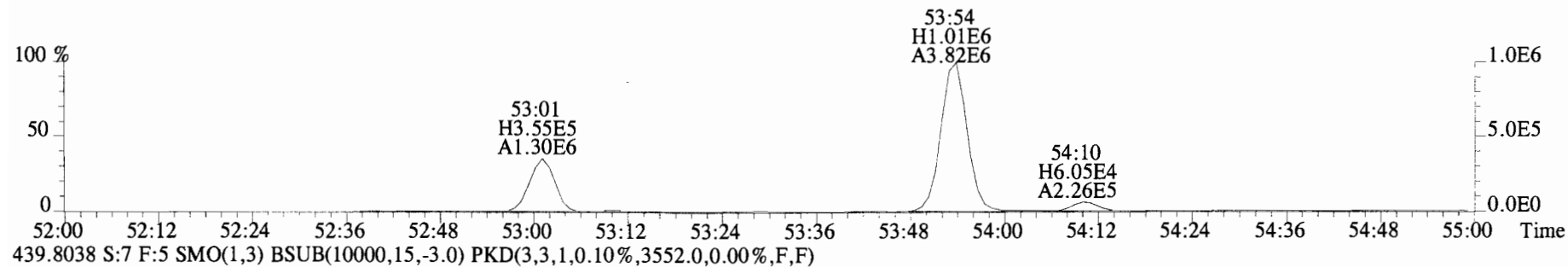
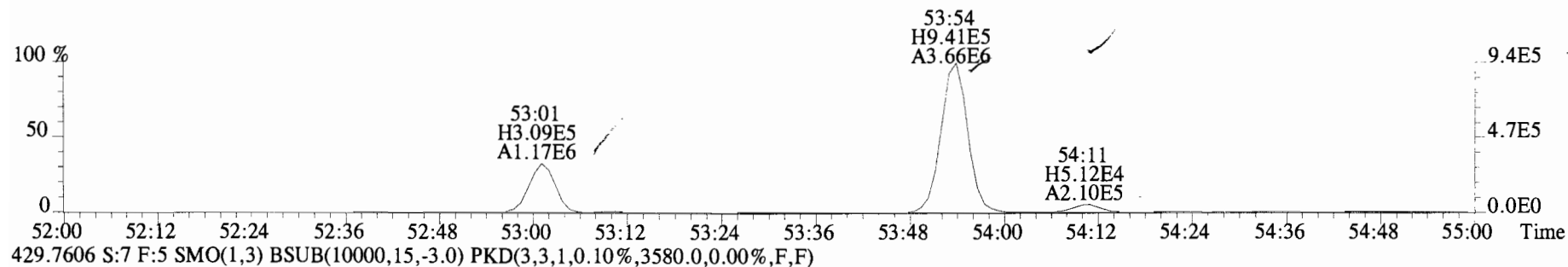
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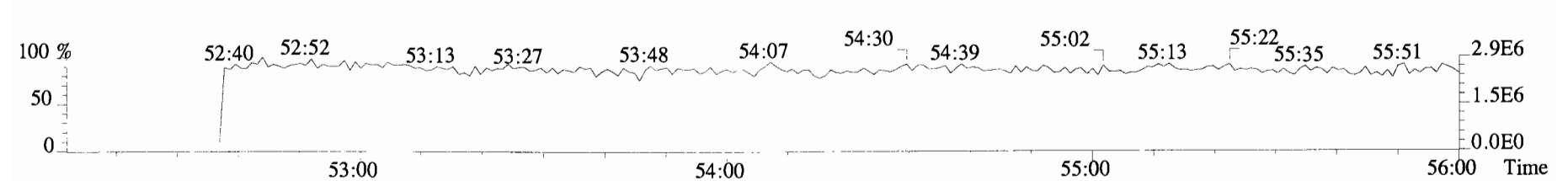
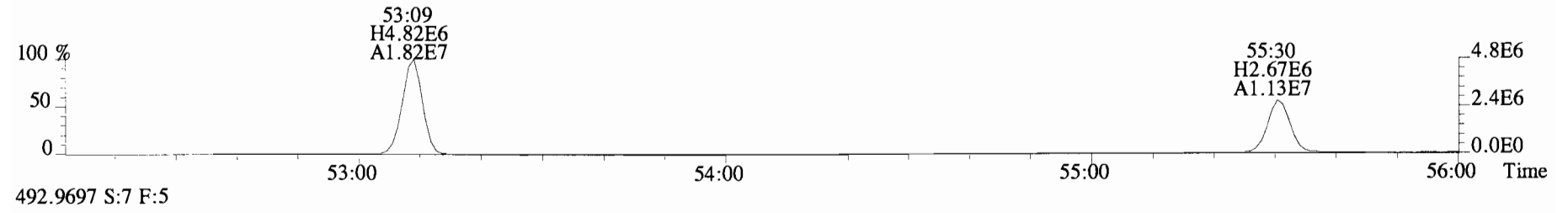
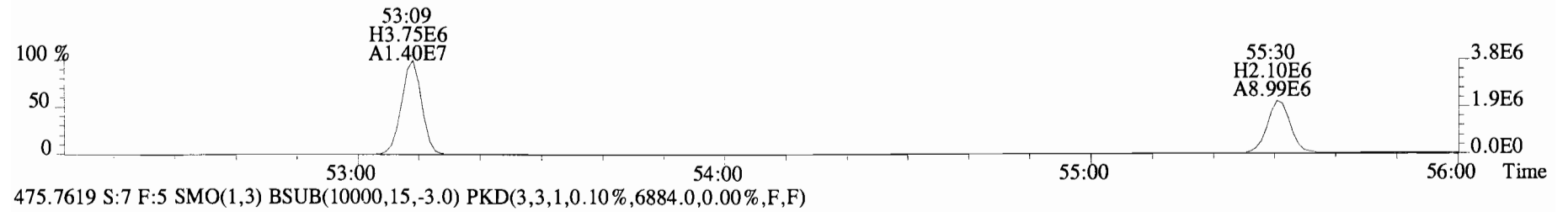
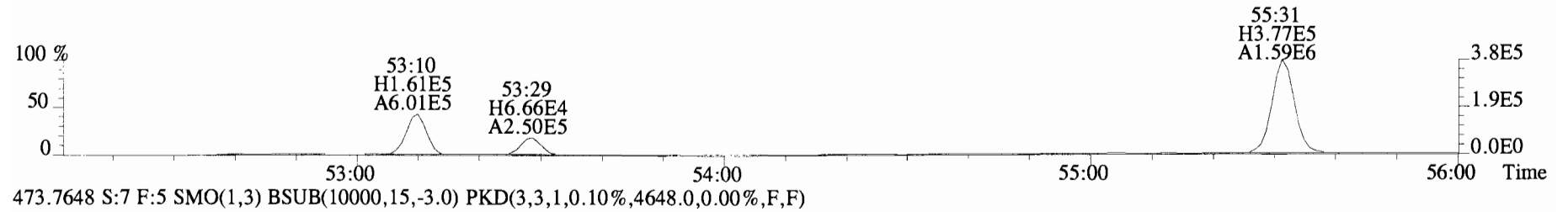
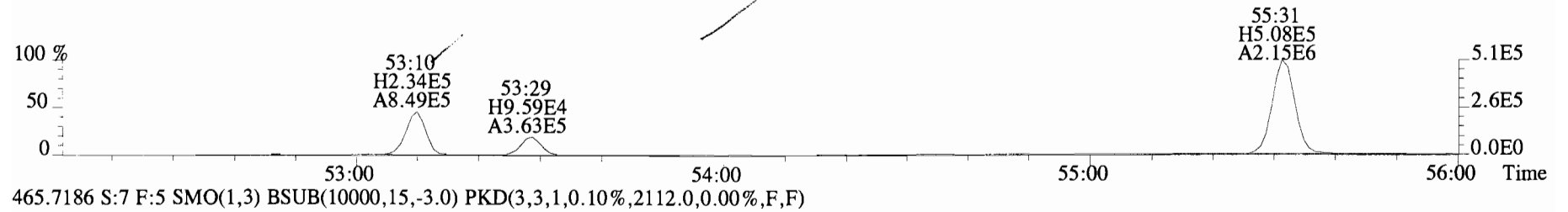
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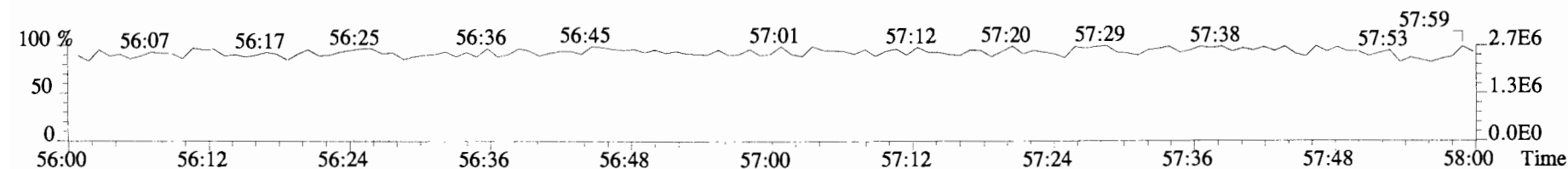
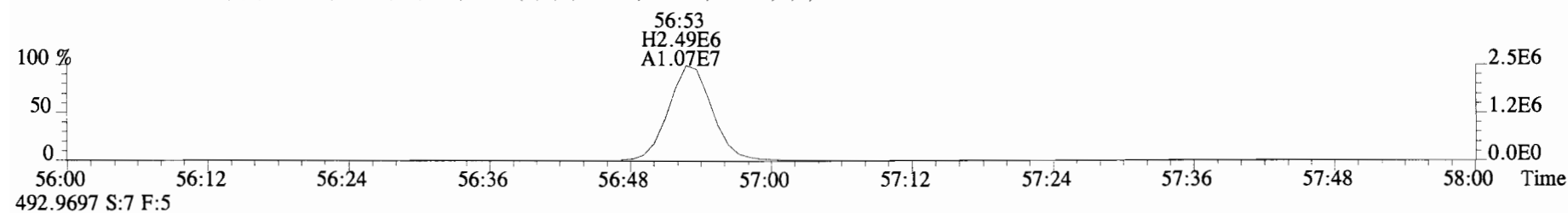
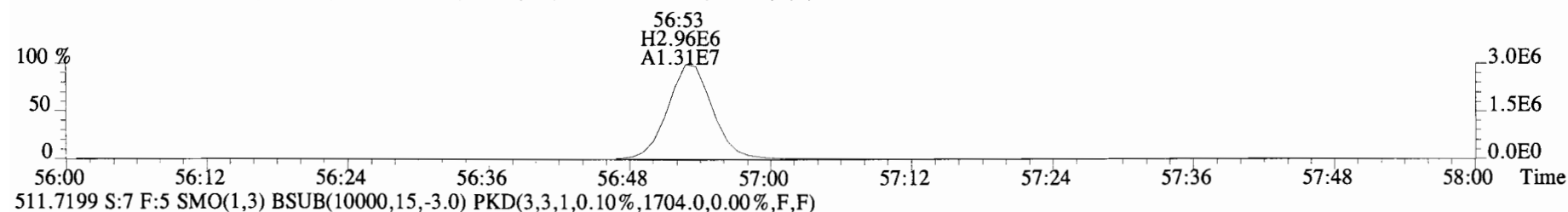
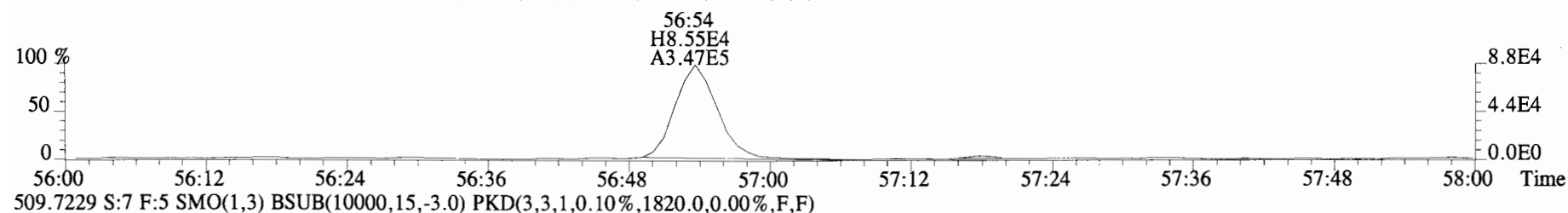
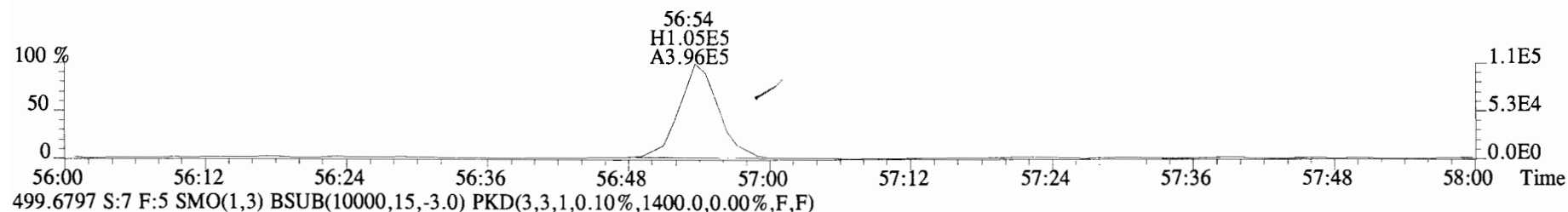
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CONFIRMATION

Dataset: C:\MassLynx\Default.pro\Results\141229F1\141229F1_5.qld

Last Altered: Monday, December 29, 2014 08:59:13 Pacific Standard Time
 Printed: Monday, December 29, 2014 08:59:56 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 24 Dec 2014 07:18:45
 Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141229F1-5, Date: 29-Dec-2014, Time: 07:58:07, ID: 1400948-01RE2 SC-OWS-05-20141211-S 3.7, Description: SC-OWS-05-20141211-S

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.97e3	0.80	NO	1.10	1.002	17.54	78.648		11.4
2	2 13C-2,3,7,8-TCDF	1.61e5	0.73	NO	0.844	1.002	17.51	1566.5	78.5	16.6
3	3 13C-1,2,3,4-TCDF	2.43e5	0.80	NO	1.00	1.002	15.25	1996.0	100	14.0

CS 12/29/14

W/K 12/31/14

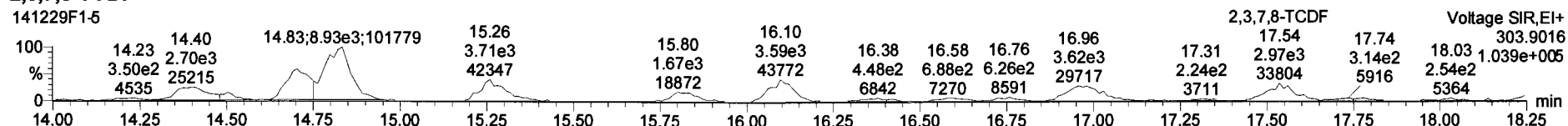
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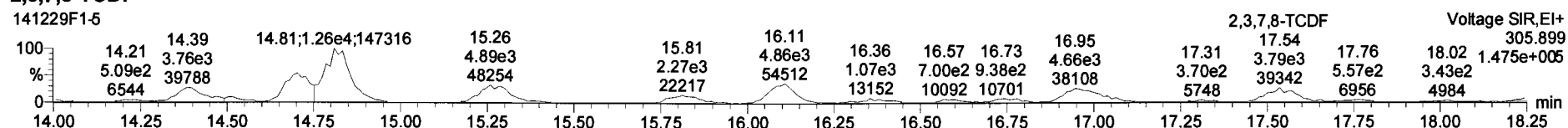
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Name: 141229F1-5, Date: 29-Dec-2014, Time: 07:58:07, ID: 1400948-01RE2 SC-OWS-05-20141211-S 3.7, Description: SC-OWS-05-20141211-S

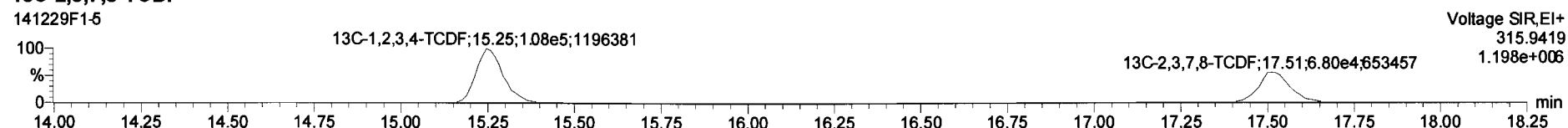
2,3,7,8-TCDF



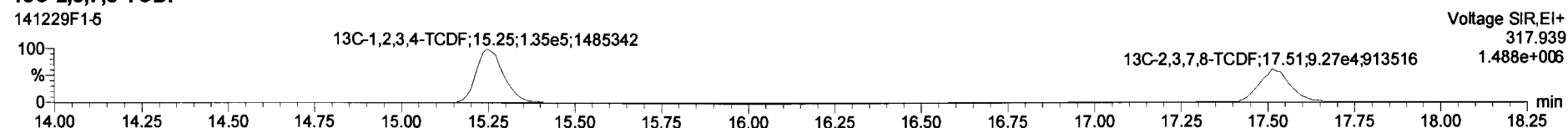
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

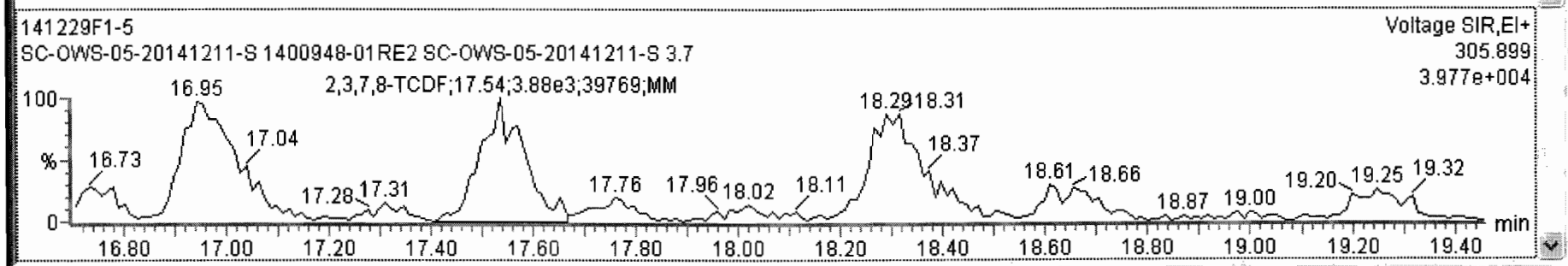
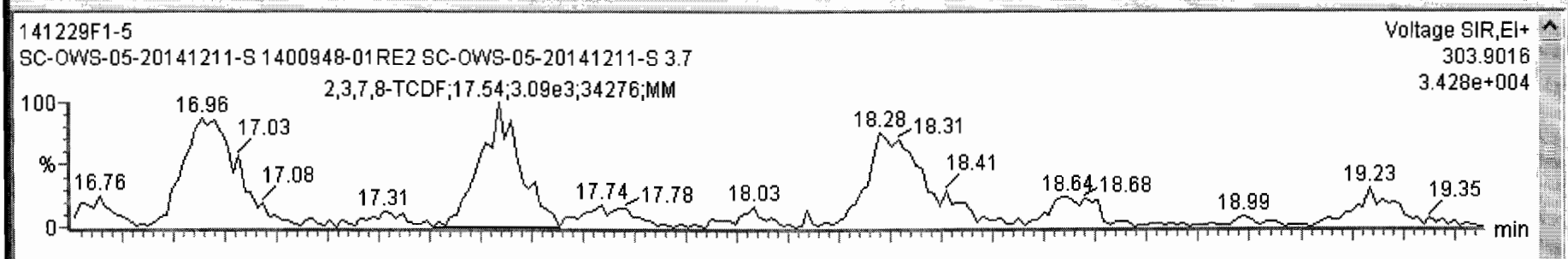


13C-2,3,7,8-TCDF



141229F1-5 - 1400948-01RE2 SC-OWS-05-20141211-S 3.7 - SC-OWS-05-20141211-S

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	6.97e3	0.80	NO	1.10	1.002	17.54	1.001	78.6		11.4	
2	13C-2,3,7,8-TCDF	1.61e5	0.73	NO	0.84	1.002	17.51	1.149	1570	78.5	16.6	
3	13C-1,2,3,4-TCDF	2.43e5	0.80	NO	1.00	1.002	15.25	0.000	2000	100	14.0	
4	13C-1,2,3,4-TCDD	1.62e5	0.77	NO		1.002	16.06	0.000				
5	PFK1					1.000						
6	DPE1					1.000						



Dataset: Untitled

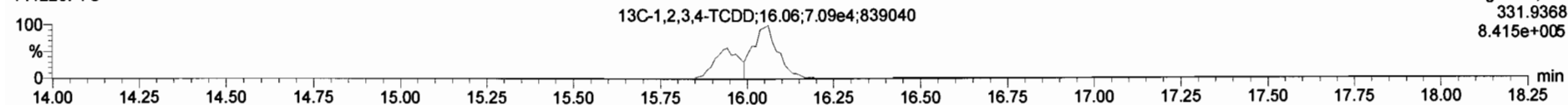
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13C-1,2,3,4-TCDD

141229F1-5

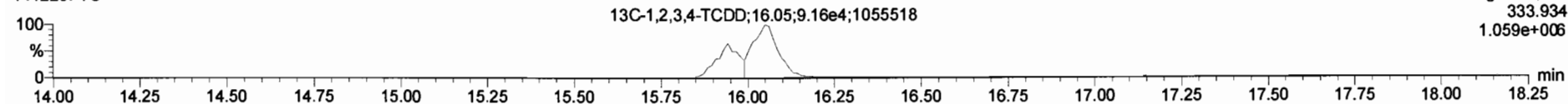
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8.415e+005



13C-1,2,3,4-TCDD

141229F1-5

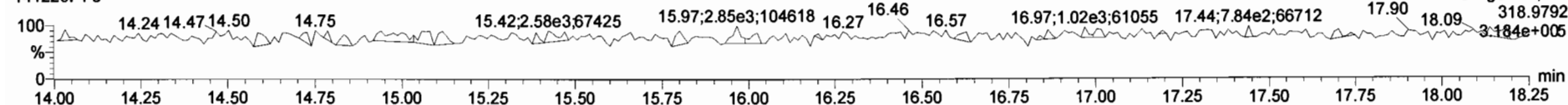
Voltage SIR,EI+
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1.059e+005



PFK1

141229F1-5

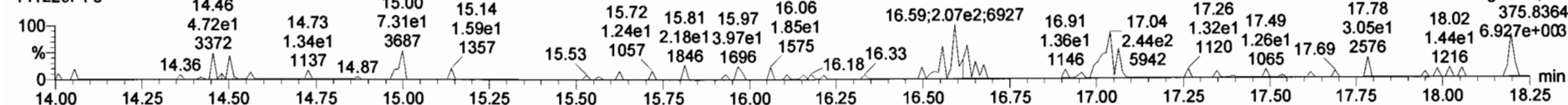
Voltage SIR,EI+
318.9792
3.184e+005



DPE1

141229F1-5

Voltage SIR,EI+
375.8364
6.927e+003



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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141229F1-6, Date: 29-Dec-2014, Time: 08:30:30, ID: 1400948-02RE2 SC-CB-35-20141211-S 1.85, Description: SC-CB-35-20141211-S

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.66e3	0.70	NO	1.10	1.002	17.56	15.869		5.98
2	13C-2,3,7,8-TCDF	1.90e5	0.77	NO	0.844	1.002	17.51	1680.9	84.2	17.6
3	13C-1,2,3,4-TCDF	2.67e5	0.79	NO	1.00	1.002	15.26	1995.3	100	14.8

CS 12/29/14

[Signature]
12/31/14

Dataset: Untitled

Last Altered: Monday, December 29, 2014 09:46:28 Pacific Standard Time

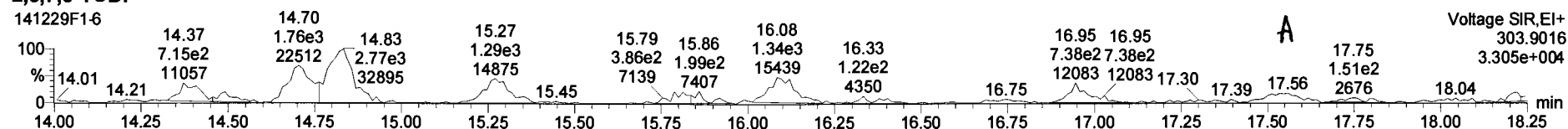
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Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 24 Dec 2014 07:18:45

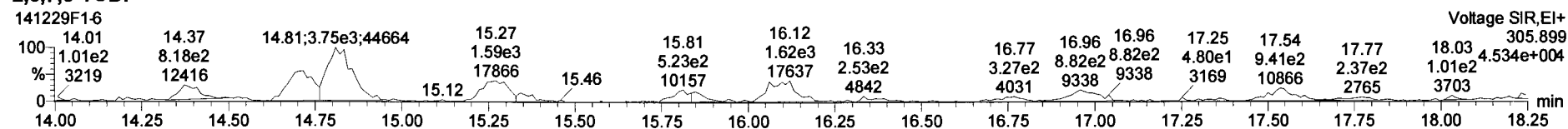
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Name: 141229F1-6, Date: 29-Dec-2014, Time: 08:30:30, ID: 1400948-02RE2 SC-CB-35-20141211-S 1.85, Description: SC-CB-35-20141211-S

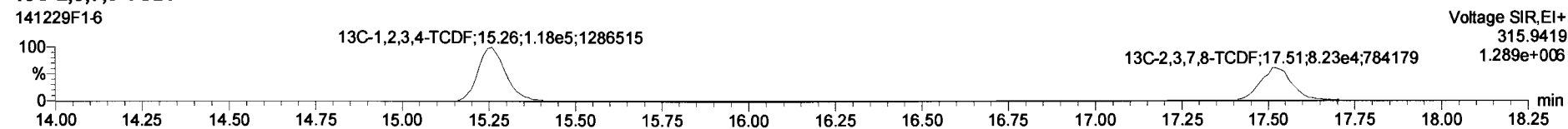
2,3,7,8-TCDF



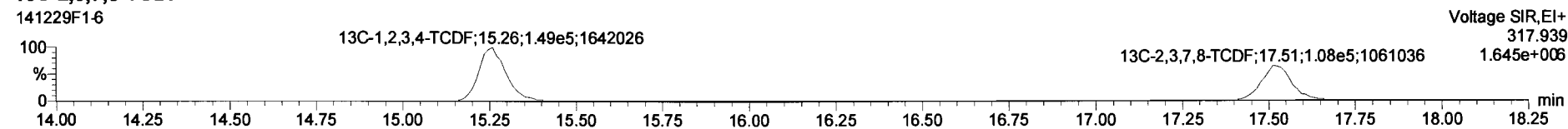
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

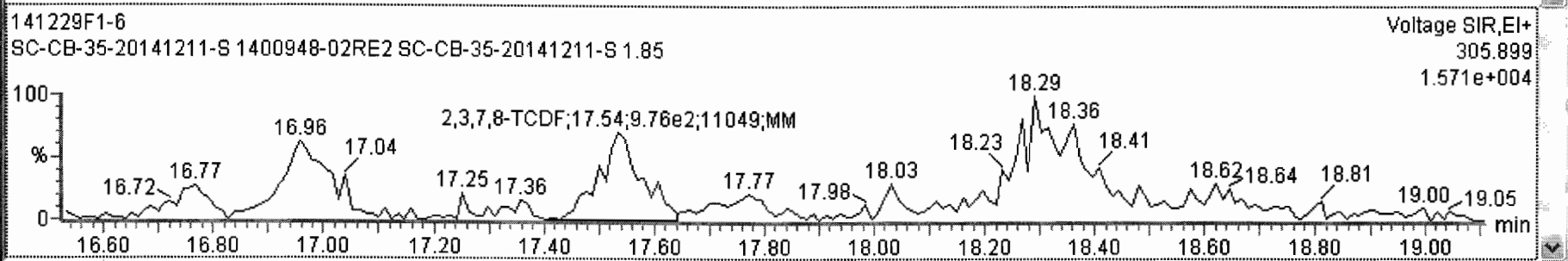
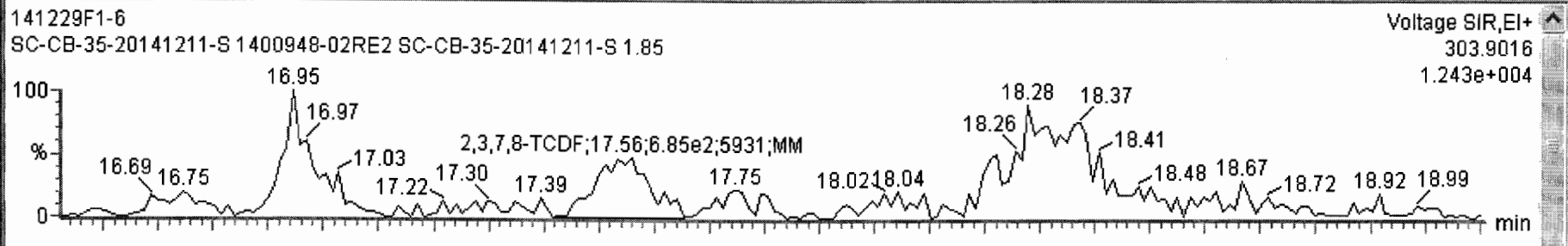


13C-2,3,7,8-TCDF



141229F1-6 - 1400948-02RE2 SC-CB-35-20141211-S 1.85 - SC-CB-35-20141211-S

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.66e3	0.70	NO	1.10	1.002	17.56	15.9		5.98
2	13C-2,3,7,8-TCDF	1.90e5	0.77	NO	0.84	1.002	17.51	1680	84.2	17.6
3	13C-1,2,3,4-TCDF	2.67e5	0.79	NO	1.00	1.002	15.26	2000	100	14.8
4	13C-1,2,3,4-TCDD	2.17e5	0.81	NO		1.002	16.05			
5	5 PFK1					1.000				
6	6 DPE1					1.000				



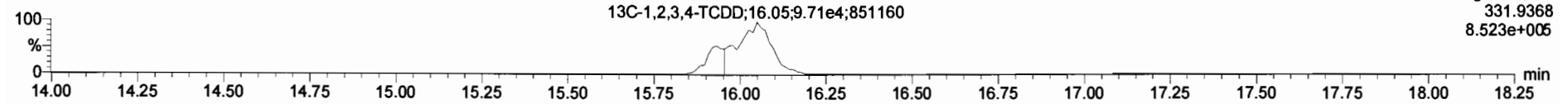
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Printed: Monday, December 29, 2014 09:47:14 Pacific Standard Time

Name: 141229F1-6, Date: 29-Dec-2014, Time: 08:30:30, ID: 1400948-02RE2 SC-CB-35-20141211-S 1.85, Description: SC-CB-35-20141211-S

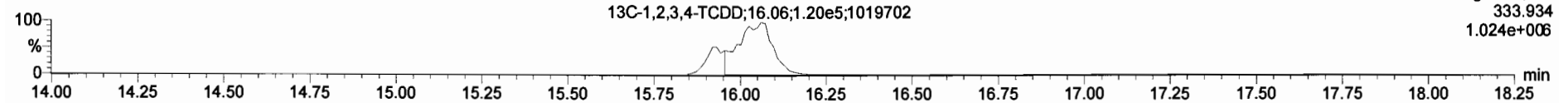
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141229F1-6



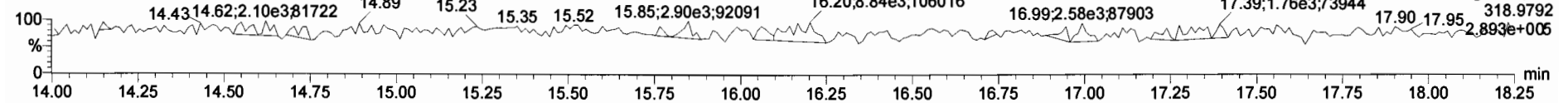
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141229F1-6



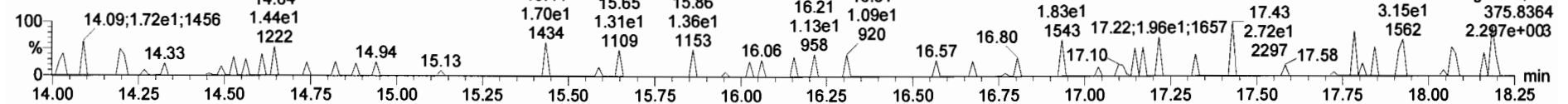
PFK1

141229F1-6



DPE1

141229F1-6



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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141229F1-7, Date: 29-Dec-2014, Time: 09:02:52, ID: 1400948-03RE2 SC-CB-24-20141211-S 2.43, Description: SC-CB-24-20141211-S

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.67e3	0.77	NO	1.10	1.012	17.54	17.942		5.49
2	2 13C-2,3,7,8-TCDF	1.67e5	0.79	NO	0.844	1.012	17.52	1704.4	86.2	20.7
3	3 13C-1,2,3,4-TCDF	2.30e5	0.80	NO	1.00	1.012	15.27	1977.2	100	17.5

CJS 12/29/14

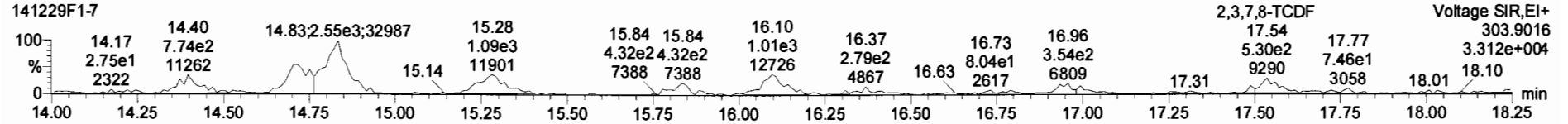
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12/31/14

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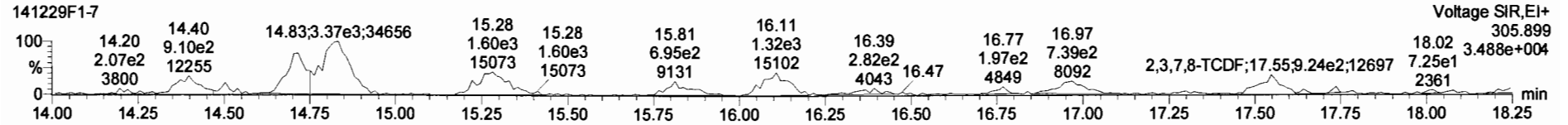
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Name: 141229F1-7, Date: 29-Dec-2014, Time: 09:02:52, ID: 1400948-03RE2 SC-CB-24-20141211-S 2.43, Description: SC-CB-24-20141211-S

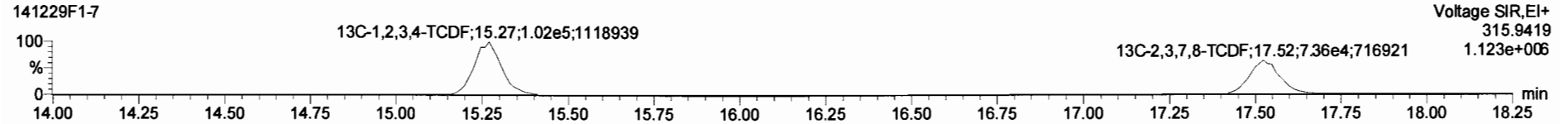
2,3,7,8-TCDF



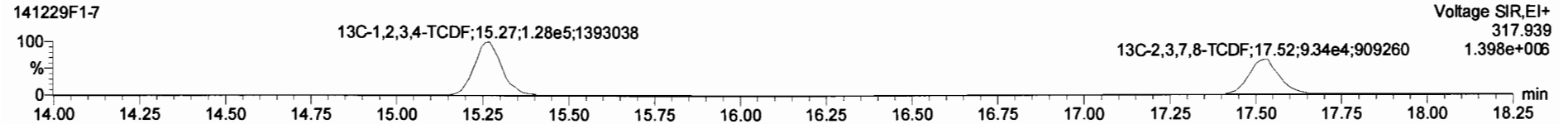
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13C-2,3,7,8-TCDF

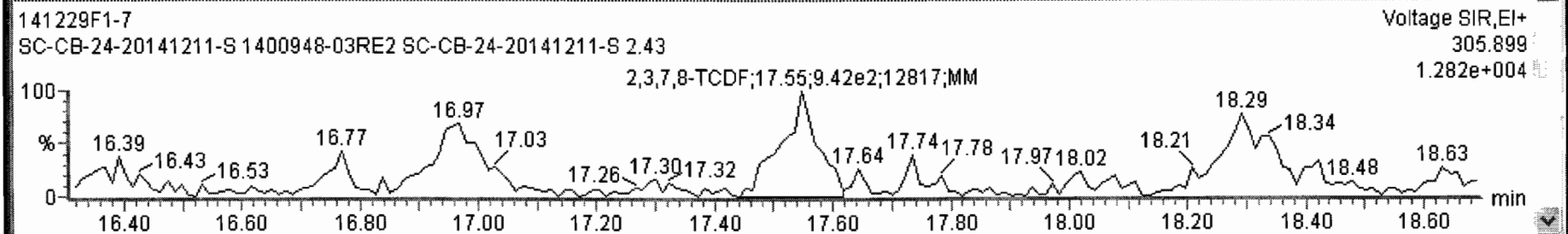
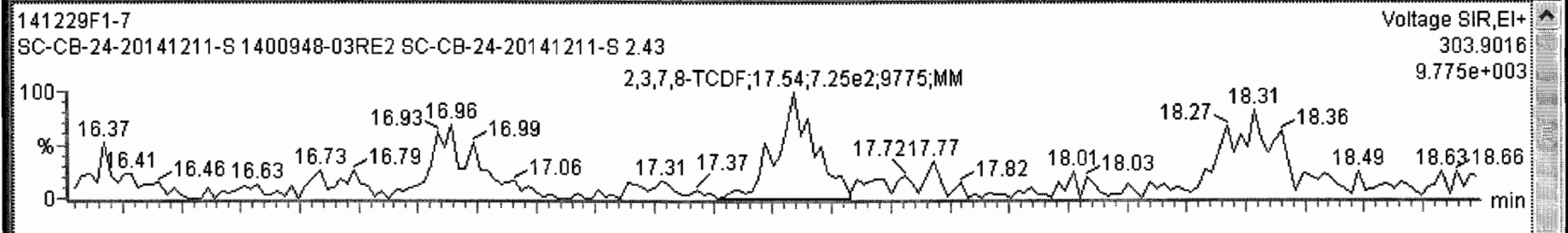


13C-2,3,7,8-TCDF



141229F1-7 - 1400948-03RE2 SC-CB-24-20141211-S 2.43 - SC-CB-24-20141211-S

#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.67e3	0.77	NO	1.10	1.012	17.54	17.9		5.49
2	13C-2,3,7,8-TCDF	1.67e5	0.79	NO	0.84	1.012	17.52	1700	86.2	20.7
3	13C-1,2,3,4-TCDF	2.30e5	0.80	NO	1.00	1.012	15.27	1980	100	17.5
4	13C-1,2,3,4-TCDD	1.67e5	0.78	NO		1.012	16.06			
5	PFK1					1.000				
6	DPE1					1.000				



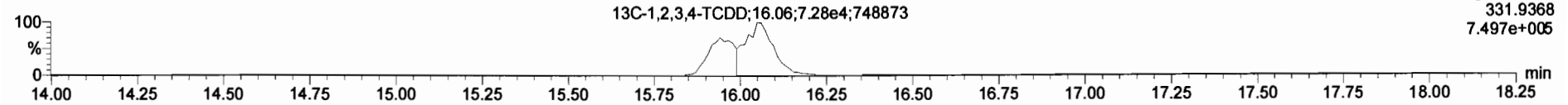
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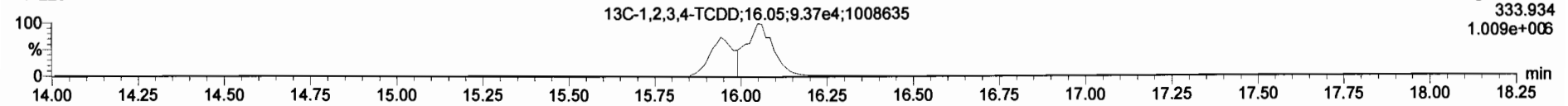
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141229F1-7



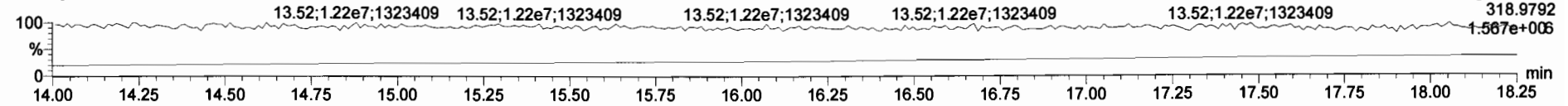
13C-1,2,3,4-TCDD

141229F1-7



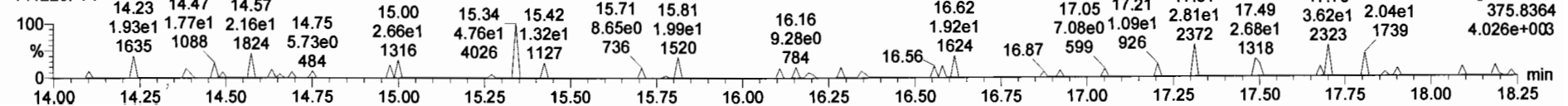
PFK1

141229F1-7



DPE1

141229F1-7



CONTINUING CALIBRATION

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST141217D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 141217D1 S#1 Analysis Date: 17-DEC-14 Time: 14:47:55

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	0.77	0.65-0.89	y	9.56	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	50.2	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	52.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	51.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	51.5	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	48.5	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	105	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	9.19	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	49.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	50.8	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.4	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	50.8	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	50.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.10	0.88-1.20	y	50.1	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	52.0	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	101	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MJ

Date: 12/17/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 141217D1 S#1 Analysis Date: 17-DEC-14 Time: 14:47:55

Labeled Compounds	M/Z'S	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
	FORMING RATIO (1)					
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	93.7	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	81.0	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	97.6	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	104	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	100	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	108	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	164	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	98.6	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	84.9	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	85.3	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	101	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	98.0	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	94.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	102	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	104	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	92.1	77.0 - 129.0
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	174	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					9.87	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: 12/17/14

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: 10-16-14

RT Window Data Filename: 141217D1 S#1 Analysis Date: 17-DEC-14 Time: 14:47:55

ZB-5MS IS Data Filename: 141217D1 S#1 Analysis Date: 17-DEC-14 Time: 14:47:55

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)	23:15	1,3,6,8-TCDF (F)	21:02
1,2,8,9-TCDD (L)	27:46	1,2,8,9-TCDF (L)	27:56
1,2,4,7,9-PeCDD (F)	29:26	1,3,4,6,8-PeCDF (F)	27:53
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)	33:18	1,2,3,4,6,8-HxCDF (F)	32:47
1,2,3,7,8,9-HxCDD (L)	35:15	1,2,3,7,8,9-HxCDF (L)	35:38
1,2,3,4,6,7,9-HpCDD (F)	37:51	1,2,3,4,6,7,8-HpCDF (F)	37:27
1,2,3,4,6,7,8-HpCDD (L)	38:45	1,2,3,4,7,8,9-HpCDF (L)	39:17

(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: 12/18/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141217D1 S#1 Analysis Date: 17-DEC-14 Time: 14:47:55

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		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	1.023	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.200	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	1.154	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.189	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.024	0.989-1.052

Analyst: mi

Date: 12/17/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141217D1 S#1 Analysis Date: 17-DEC-14 Time: 14:47:55

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	1.000	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	1.001	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	1.000	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	1.025	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.089	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: mm

Date: 12/17/14

Client ID: 1613 CS3 14I1102
Lab ID: ST141217D1-1

Filename: 141217D1 S:1 Acq:17-DEC-14 14:47:55
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

ConCal: ST141217D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.47e+06	0.77	y	1.18	26:53	1.001	9.5620	*	2.5	*	Total Tetra-Dioxins	55.5	56.0	*	*	
1,2,3,7,8-PeCDD	1.00e+07	0.62	y	0.92	31:32	1.000	50.208	*	2.5	*	Total Penta-Dioxins	156	157	*	*	
1,2,3,4,7,8-HxCDD	9.16e+06	1.29	y	1.09	34:51	1.000	52.315	*	2.5	*	Total Hexa-Dioxins	201	202	*	*	
1,2,3,6,7,8-HxCDD	9.45e+06	1.21	y	1.07	34:57	1.001	51.012	*	2.5	*	Total Hepta-Dioxins	126	127	*	*	
1,2,3,7,8,9-HxCDD	9.38e+06	1.23	y	0.93	35:15	1.000	51.502	*	2.5	*	Total Tetra-Furans	29.1	29.3	*	*	
1,2,3,4,6,7,8-HpCDD	8.55e+06	1.07	y	1.12	38:45	1.000	48.524	*	2.5	*	Total Penta-Furans	207.53	208.21	*	*	
OCDD	1.46e+07	0.89	y	0.95	42:00	1.000	104.51	*	2.5	*	Total Hexa-Furans	249	250	*	*	
											Total Hepta-Furans	102	104	*	*	

2,3,7,8-TCDF	3.20e+06	0.78	y	1.08	26:05	1.001	9.1882	*	2.5	*
1,2,3,7,8-PeCDF	1.56e+07	1.60	y	1.09	30:20	1.000	49.948	*	2.5	*
2,3,4,7,8-PeCDF	1.55e+07	1.60	y	1.04	31:14	1.000	50.774	*	2.5	*
1,2,3,4,7,8-HxCDF	1.56e+07	1.29	y	1.39	33:57	1.000	49.403	*	2.5	*
1,2,3,6,7,8-HxCDF	1.56e+07	1.29	y	1.26	34:05	1.000	50.465	*	2.5	*
2,3,4,6,7,8-HxCDF	1.47e+07	1.31	y	1.30	34:41	1.000	50.800	*	2.5	*
1,2,3,7,8,9-HxCDF	1.20e+07	1.27	y	1.19	35:38	1.000	50.436	*	2.5	*
1,2,3,4,6,7,8-HpCDF	1.38e+07	1.10	y	1.62	37:27	1.001	50.143	*	2.5	*
1,2,3,4,7,8,9-HpCDF	1.18e+07	1.05	y	1.53	39:17	1.000	51.997	*	2.5	*
OCDF	1.93e+07	0.91	y	1.10	42:14	1.000	101.14	*	2.5	*

IS	13C-2,3,7,8-TCDD	2.18e+07	0.78	y	1.07	26:52	1.023	93.676	93.7
IS	13C-1,2,3,7,8-PeCDD	2.18e+07	0.63	y	1.24	31:31	1.200	80.959	81.0
IS	13C-1,2,3,4,7,8-HxCDD	1.61e+07	1.24	y	0.72	34:50	1.014	97.570	97.6
IS	13C-1,2,3,6,7,8-HxCDD	1.74e+07	1.23	y	0.74	34:56	1.017	103.61	104
IS	13C-1,2,3,7,8,9-HxCDD	1.96e+07	1.23	y	0.86	35:14	1.025	100.49	100
IS	13C-1,2,3,4,6,7,8-HpCDD	1.58e+07	1.07	y	0.64	38:44	1.127	107.72	108
IS	13C-OCDD	2.93e+07	0.89	y	0.78	41:60	1.222	164.44	82.2
IS	13C-2,3,7,8-TCDF	3.23e+07	0.77	y	0.92	26:03	0.992	98.622	98.6
IS	13C-1,2,3,7,8-PeCDF	2.86e+07	1.60	y	0.95	30:19	1.154	84.870	84.9
IS	13C-2,3,4,7,8-PeCDF	2.94e+07	1.64	y	0.97	31:14	1.189	85.263	85.3
IS	13C-1,2,3,4,7,8-HxCDF	2.27e+07	0.52	y	0.99	33:57	0.988	100.51	101
IS	13C-1,2,3,6,7,8-HxCDF	2.45e+07	0.52	y	1.10	34:04	0.992	98.005	98.0
IS	13C-2,3,4,6,7,8-HxCDF	2.23e+07	0.52	y	1.03	34:40	1.009	94.926	94.9
IS	13C-1,2,3,7,8,9-HxCDF	1.99e+07	0.51	y	0.86	35:37	1.037	101.81	102
IS	13C-1,2,3,4,6,7,8-HpCDF	1.70e+07	0.43	y	0.71	37:26	1.089	104.48	104
IS	13C-1,2,3,4,7,8,9-HpCDF	1.48e+07	0.43	y	0.71	39:17	1.143	92.079	92.1
IS	13C-OCDF	3.47e+07	0.91	y	0.87	42:13	1.229	174.33	87.2

C/Up	37Cl-2,3,7,8-TCDD	2.60e+06		1.21	26:53	1.024	9.8714	24.7
RS/RT	13C-1,2,3,4-TCDD	2.17e+07	0.81	y	1.00	26:16	*	100.00
RS	13C-1,2,3,4-TCDF	3.55e+07	0.77	y	1.00	24:45	*	100.00
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.28e+07	0.52	y	1.00	34:21	*	100.00

Rec Qual
Integrations Reviewed
by Analyst: mi by Analyst: [Signature]
Date: 12/17/14 Date: 12/18/14

Vista Analytical Laboratory - Injection Log Run file: 141217D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141217D1	1	ST141217D1-1	MAS	17-DEC-14	14:47:55	ST141217D1-1	NA
141217D1	2	SOLVENT BLANK	MAS	17-DEC-14	15:36:33	ST141217D1-1	NA
141217D1	3	SOLVENT BLANK	MAS	17-DEC-14	16:25:12	ST141217D1-1	NA
141217D1	4	B4L0090-BS1	MAS	17-DEC-14	17:13:51	ST141217D1-1	NA
141217D1	5	SOLVENT BLANK	MAS	17-DEC-14	18:02:30	ST141217D1-1	NA
141217D1	6	B4L0090-BLK1	MAS	17-DEC-14	18:51:09	ST141217D1-1	NA
141217D1	7	1400930-01	MAS	17-DEC-14	19:39:48	ST141217D1-1	NA
141217D1	8	1400931-01	MAS	17-DEC-14	20:28:27	ST141217D1-1	NA
141217D1	9	1400932-01	MAS	17-DEC-14	21:17:04	ST141217D1-1	NA
141217D1	10	1400925-01	MAS	17-DEC-14	22:05:43	ST141217D1-1	NA
141217D1	11	1400925-02	MAS	17-DEC-14	22:54:21	ST141217D1-1	NA
141217D1	12	1400925-03	MAS	17-DEC-14	23:42:57	ST141217D1-1	NA
141217D1	13	1400925-04	MAS	18-DEC-14	00:31:39	ST141217D1-1	NA
141217D1	14	1400928-01	MAS	18-DEC-14	01:20:15	ST141217D1-1	NA
141217D1	15	1400915-01	MAS	18-DEC-14	02:08:52	ST141217D1-1	NA
141217D1	16	SOLVENT BLANK	MAS	18-DEC-14	02:57:30	ST141217D1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST14 121701-1

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 checked="" type="checkbox"/>
-Samples within 12-hour clock?	(y)	n

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq 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: MZ 12/18/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST141217D2-1

Contract No.:

SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 141217D2 S#1 Analysis Date: 18-DEC-14 Time: 04:00:11

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	0.77	0.65-0.89	y	9.87	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	1.27	1.05-1.43	y	52.0	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	50.5	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	52.0	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	49.6	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	0.75	0.65-0.89	y	9.60	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	49.5	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	51.1	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	51.7	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	51.4	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	50.9	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	53.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	55.0	43.0 - 58.0
OCDF	M+2/M+4	0.92	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: 12/18/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 141217D2 #1 Analysis Date: 18-DEC-14 Time: 04:00:11

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	0.81	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	103	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	93.9	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	97.3	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	98.7	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	103	72.0 - 138.0
13C-OCDD	M/M+2	0.88	0.76-1.02	y	180	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	95.9	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	100	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	98.5	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	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	97.8	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	96.5	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	102	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.42	0.37-0.51	y	103	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	91.8	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	191	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					10.4	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: ms

Date: 12/19/14

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-16-14

RT Window Data Filename: 141217D2 S#1 Analysis Date: 18-DEC-14 Time: 04:00:11

ZB-5MS IS Data Filename: 141217D2 S#1 Analysis Date: 18-DEC-14 Time: 04:00:11

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)	23:15	1,3,6,8-TCDF (F)	21:03
1,2,8,9-TCDD (L)	27:46	1,2,8,9-TCDF (L)	27:56
1,2,4,7,9-PeCDD (F)	29:25	1,3,4,6,8-PeCDF (F)	27:52
1,2,3,8,9-PeCDD (L)	31:53	1,2,3,8,9-PeCDF (L)	32:07
1,2,4,6,7,9-HxCDD (F)	33:18	1,2,3,4,6,8-HxCDF (F)	32:46
1,2,3,7,8,9-HxCDD (L)	35:14	1,2,3,7,8,9-HxCDF (L)	35:37
1,2,3,4,6,7,9-HpCDD (F)	37:50	1,2,3,4,6,7,8-HpCDF (F)	37:26
1,2,3,4,6,7,8-HpCDD (L)	38:44	1,2,3,4,7,8,9-HpCDF (L)	39:17

(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: m)Date: 12/19/14

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141217D2 S#1 Analysis Date: 18-DEC-14 Time: 04:00:11

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		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	1.001	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	1.023	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.199	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	1.154	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.189	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: 12/19/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141217D2 #1 Analysis Date: 18-DEC-14 Time: 04:00:11

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE	RRT		
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	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	1.000	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	0.992	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	1.223	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.229	1.091-1.371

Analyst: ms

Date: 12/18/14

Client ID: 1613 CS3 14I1102
Lab ID: ST141217D2-1

Filename: 141217D2 S:1 Acq:18-DEC-14 04:00:11
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

ConCal: ST141217D2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.88e+06	0.77 y	1.18	26:53	1.001	9.8679	*	2.5	*	*	Total Tetra-Dioxins	56.9	57.0	*	*	
1,2,3,7,8-PeCDD	9.36e+06	0.61 y	0.92	31:31	1.001	51.192	*	2.5	*	*	Total Penta-Dioxins	156	157	*	*	
1,2,3,4,7,8-HxCDD	8.50e+06	1.27 y	1.09	34:50	1.000	51.951	*	2.5	*	*	Total Hexa-Dioxins	201	202	*	*	
1,2,3,6,7,8-HxCDD	8.53e+06	1.26 y	1.07	34:57	1.001	50.486	*	2.5	*	*	Total Hepta-Dioxins	130	131	*	*	
1,2,3,7,8,9-HxCDD	9.03e+06	1.24 y	0.93	35:14	1.000	51.990	*	2.5	*	*	Total Tetra-Furans	31.3	31.6	*	*	
1,2,3,4,6,7,8-HpCDD	8.15e+06	1.02 y	1.12	38:44	1.000	49.597	*	2.5	*	*	Total Penta-Furans	205.52	206.80	*	*	
OCDD	1.53e+07	0.90 y	0.95	41:59	1.000	103.11	*	2.5	*	*	Total Hexa-Furans	253	254	*	*	
											Total Hepta-Furans	108	110	*	*	
2,3,7,8-TCDF	2.60e+06	0.75 y	1.08	26:04	1.001	9.6016	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.46e+07	1.59 y	1.09	30:19	1.000	49.481	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.44e+07	1.61 y	1.04	31:14	1.001	51.073	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.62e+07	1.28 y	1.39	33:57	1.001	51.744	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.54e+07	1.30 y	1.26	34:04	1.000	51.439	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.46e+07	1.28 y	1.30	34:40	1.000	50.943	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.17e+07	1.29 y	1.19	35:37	1.001	50.916	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.39e+07	1.09 y	1.62	37:26	1.001	53.006	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.21e+07	1.05 y	1.53	39:17	1.000	54.978	*	2.5	*	*						
OCDF	2.09e+07	0.92 y	1.10	42:13	1.000	102.95	*	2.5	*	*						
IS	13C-2,3,7,8-TCDD	1.61e+07	0.81 y	1.07	26:51	1.023	96.273				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	1.99e+07	0.63 y	1.24	31:30	1.199	103.11				96.3	103				
IS	13C-1,2,3,4,7,8-HxCDD	1.51e+07	1.27 y	0.72	34:49	1.014	93.931				93.9	97.3				
IS	13C-1,2,3,6,7,8-HxCDD	1.58e+07	1.26 y	0.74	34:55	1.017	97.273				97.3	98.7				
IS	13C-1,2,3,7,8,9-HxCDD	1.87e+07	1.26 y	0.86	35:13	1.026	98.659				98.7	103				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.47e+07	1.07 y	0.64	38:43	1.127	103.41				103	90.1				
IS	13C-OCDD	3.12e+07	0.88 y	0.78	41:59	1.223	180.17				90.1	95.9				
IS	13C-2,3,7,8-TCDF	2.51e+07	0.77 y	0.92	26:03	0.992	95.879				95.9	100				
IS	13C-1,2,3,7,8-PeCDF	2.70e+07	1.62 y	0.95	30:18	1.154	100.33				100	98.5				
IS	13C-2,3,4,7,8-PeCDF	2.71e+07	1.59 y	0.97	31:13	1.189	98.548				98.5	103				
IS	13C-1,2,3,4,7,8-HxCDF	2.25e+07	0.50 y	0.99	33:55	0.988	102.78				103	97.8				
IS	13C-1,2,3,6,7,8-HxCDF	2.38e+07	0.51 y	1.10	34:03	0.992	97.834				97.8	96.5				
IS	13C-2,3,4,6,7,8-HxCDF	2.20e+07	0.52 y	1.03	34:39	1.009	96.472				96.5	102				
IS	13C-1,2,3,7,8,9-HxCDF	1.93e+07	0.50 y	0.86	35:36	1.037	101.74				102	103				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.62e+07	0.42 y	0.71	37:25	1.090	102.60				103	91.8				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.44e+07	0.43 y	0.71	39:16	1.143	91.845				91.8	95.4				
IS	13C-OCDF	3.69e+07	0.89 y	0.87	42:13	1.229	190.71				95.4					
C/Up	37C1-2,3,7,8-TCDD	1.97e+06		1.21	26:52	1.023	10.444				26.1					
RS/RT	13C-1,2,3,4-TCDD	1.56e+07	0.85 y	1.00	26:16	*	100.00									
RS	13C-1,2,3,4-TCDF	2.83e+07	0.79 y	1.00	24:44	*	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.21e+07	0.52 y	1.00	34:20	*	100.00									

Integrations
by
Analyst: MS
Date: 12/19/14
Reviewed
by
Analyst: [Signature]
Date: 12/18/14

Vista Analytical Laboratory - Injection Log Run file: 141217D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141217D2	1	ST141217D2-1	MAS	18-DEC-14	04:00:11	ST141217D2-1	NA
141217D2	2	SOLVENT BLANK	MAS	18-DEC-14	04:48:48	ST141217D2-1	NA
141217D2	3	1400933-01	MAS	18-DEC-14	05:37:30	ST141217D2-1	NA
141217D2	4	1400945-01	MAS	18-DEC-14	06:26:06	ST141217D2-1	NA
141217D2	5	1400946-01	MAS	18-DEC-14	07:14:47	ST141217D2-1	NA
141217D2	6	1400948-04	MAS	18-DEC-14	08:03:28	ST141217D2-1	NA
141217D2	7	1400934-01	MAS	18-DEC-14	08:52:13	ST141217D2-1	NA
141217D2	8	1400934-02	MAS	18-DEC-14	09:40:59	ST141217D2-1	NA
141217D2	9	SOLVENT BLANK	MAS	18-DEC-14	10:29:36	ST141217D2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST14121702-1

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"/>	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>B</u> TCDD/TCDF valleys < 25%?	<input 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		<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: *[Signature]* 12/18/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST141226D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 141226D2 S#1 Analysis Date: 26-DEC-14 Time: 20:23:51

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	9.91	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	49.2	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	51.6	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.22	1.05-1.43	y	50.5	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	50.0	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	102	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	y	9.73	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	47.8	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.1	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.7	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.4	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.34	1.05-1.43	y	50.2	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	49.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.11	0.88-1.20	y	51.0	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	101	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: 6/2

Date: 12/27/14

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 141226D2 S#1 Analysis Date: 26-DEC-14 Time: 20:23:51

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	96.8	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	118	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	91.0	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	93.0	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.22	1.05-1.43	y	91.6	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.10	0.88-1.20	y	95.4	72.0 - 138.0
13C-OCDD	M/M+2	0.88	0.76-1.02	y	167	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	92.8	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	103	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	104	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	101	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	97.9	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	93.5	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	92.6	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	101	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	91.7	77.0 - 129.0
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	172	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					10.7	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: APC

Date: 12/27/14

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-16-14

RT Window Data Filename: 141226D2 S#1 Analysis Date: 26-DEC-14 Time: 20:23:51

ZB-5MS IS Data Filename: 141226D2 S#1 Analysis Date: 26-DEC-14 Time: 20:23:51

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)	23:15	1,3,6,8-TCDF (F)	21:03
1,2,8,9-TCDD (L)	27:50	1,2,8,9-TCDF (L)	28:00
1,2,4,7,9-PeCDD (F)	29:30	1,3,4,6,8-PeCDF (F)	27:56
1,2,3,8,9-PeCDD (L)	31:59	1,2,3,8,9-PeCDF (L)	32:14
1,2,4,6,7,9-HxCDD (F)	33:24	1,2,3,4,6,8-HxCDF (F)	32:52
1,2,3,7,8,9-HxCDD (L)	35:19	1,2,3,7,8,9-HxCDF (L)	35:43
1,2,3,4,6,7,9-HpCDD (F)	37:55	1,2,3,4,6,7,8-HpCDF (F)	37:31
1,2,3,4,6,7,8-HpCDD (L)	38:50	1,2,3,4,7,8,9-HpCDF (L)	39:23


(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%

Analyst: 

(1) To meet contract requirements, %Valley Height Between Compared
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Date: 12/27/19

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141226D2 S#1 Analysis Date: 26-DEC-14 Time: 20:23:51

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	1.023	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.201	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	1.155	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.190	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.024	0.989-1.052

Analyst:

Date: 12/27/14

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-16-14

Instrument ID: VG-7 GC Column ID: ZB-5MS


VER Data Filename: 141226D2 S#1 Analysis Date: 26-DEC-14 Time: 20:23:51

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-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	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	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	0.992	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	1.036	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	1.025	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.089	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	1.228	1.091-1.371

Analyst: 

Date: 12/27/14

Client ID: 1613 CS3 14I1102
Lab ID: ST141226D2-1

Filename: 141226D2 S:1 Acq:26-DEC-14 20:23:51
GC Column ID: ZB-5MS ICal: 1613VG7-10-16-14 wt/vol: 1.000

ConCal: ST141226D2-1
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	1.49e+06	0.76 y	1.18	26:56	1.001	9.9102	*	2.5	*	*	Total Tetra-Dioxins	56.4	56.8	*	*	
1,2,3,7,8-PeCDD	8.07e+06	0.62 y	0.92	31:37	1.000	49.178	*	2.5	*	*	Total Penta-Dioxins	152	152	*	*	
1,2,3,4,7,8-HxCDD	7.25e+06	1.27 y	1.09	34:55	1.000	50.650	*	2.5	*	*	Total Hexa-Dioxins	199	200	*	*	
1,2,3,6,7,8-HxCDD	7.52e+06	1.22 y	1.07	35:02	1.000	51.568	*	2.5	*	*	Total Hepta-Dioxins	122	124	*	*	
1,2,3,7,8,9-HxCDD	7.35e+06	1.22 y	0.93	35:19	1.000	50.487	*	2.5	*	*	Total Tetra-Furans	32.0	32.3	*	*	
1,2,3,4,6,7,8-HpCDD	6.84e+06	1.05 y	1.12	38:50	1.000	49.983	*	2.5	*	*	Total Penta-Furans	200.35	200.84	*	*	
OCDD	1.27e+07	0.88 y	0.95	42:05	1.000	101.99	*	2.5	*	*	Total Hexa-Furans	250	251	*	*	
											Total Hepta-Furans	101	103	*	*	
2,3,7,8-TCDF	2.10e+06	0.81 y	1.08	26:07	1.001	9.7274	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.19e+07	1.57 y	1.09	30:24	1.000	47.795	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.21e+07	1.55 y	1.04	31:20	1.000	49.095	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.38e+07	1.31 y	1.39	34:02	1.000	49.869	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.37e+07	1.29 y	1.26	34:10	1.001	50.666	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.26e+07	1.29 y	1.30	34:46	1.000	50.365	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	9.49e+06	1.34 y	1.19	35:43	1.001	50.199	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.15e+07	1.08 y	1.62	37:31	1.000	49.353	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.01e+07	1.11 y	1.53	39:23	1.001	50.952	*	2.5	*	*						
OCDF	1.67e+07	0.92 y	1.10	42:19	1.000	101.43	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.27e+07	0.80 y	1.07	26:55	1.023	96.770					96.8					
IS 13C-1,2,3,7,8-PeCDD	1.79e+07	0.62 y	1.24	31:36	1.201	118.25					118					
IS 13C-1,2,3,4,7,8-HxCDD	1.32e+07	1.31 y	0.72	34:55	1.014	90.951					91.0					
IS 13C-1,2,3,6,7,8-HxCDD	1.37e+07	1.21 y	0.74	35:01	1.017	93.010					93.0					
IS 13C-1,2,3,7,8,9-HxCDD	1.56e+07	1.22 y	0.86	35:19	1.025	91.562					91.6					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.23e+07	1.10 y	0.64	38:49	1.127	95.406					95.4					
IS 13C-OCDD	2.62e+07	0.88 y	0.78	42:05	1.222	167.32					83.7					
IS 13C-2,3,7,8-TCDF	2.00e+07	0.77 y	0.92	26:06	0.992	92.808					92.8					
IS 13C-1,2,3,7,8-PeCDF	2.29e+07	1.58 y	0.95	30:23	1.155	103.20					103					
IS 13C-2,3,4,7,8-PeCDF	2.36e+07	1.59 y	0.97	31:19	1.190	104.12					104					
IS 13C-1,2,3,4,7,8-HxCDF	1.99e+07	0.51 y	0.99	34:01	0.988	100.50					101					
IS 13C-1,2,3,6,7,8-HxCDF	2.15e+07	0.51 y	1.10	34:09	0.992	97.851					97.9					
IS 13C-2,3,4,6,7,8-HxCDF	1.93e+07	0.52 y	1.03	34:45	1.009	93.529					93.5					
IS 13C-1,2,3,7,8,9-HxCDF	1.59e+07	0.50 y	0.86	35:42	1.036	92.557					92.6					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.44e+07	0.44 y	0.71	37:30	1.089	101.06					101					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.30e+07	0.43 y	0.71	39:22	1.143	91.706					91.7					
IS 13C-OCDF	2.99e+07	0.90 y	0.87	42:18	1.228	171.55					85.8					
C/Up 37Cl-2,3,7,8-TCDD	1.58e+06		1.21	26:56	1.024	10.723					26.8					
											Integrations					
											by					
RS/RT 13C-1,2,3,4-TCDD	1.22e+07	0.81 y	1.00	26:19	*	100.00					Analyst: <u>AK</u>					
RS 13C-1,2,3,4-TCDF	2.33e+07	0.77 y	1.00	24:46	*	100.00					Analyst: <u>CT</u>					
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.00e+07	0.52 y	1.00	34:26	*	100.00					Date: <u>12/27/14</u>					
											Date: <u>12/29/14</u>					

Vista Analytical Laboratory - Injection Log Run file: 141226D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141226D2	1	ST141226D2-1	DMS	26-DEC-14	20:23:51	ST141226D2-1	NA
141226D2	2	B4L0130-BS1	DMS	26-DEC-14	21:12:35	ST141226D2-1	NA
141226D2	3	SOLVENT BLANK	DMS	26-DEC-14	22:01:27	ST141226D2-1	NA
141226D2	4	B4L0130-BLK1	DMS	26-DEC-14	22:50:17	ST141226D2-1	NA
141226D2	5	1400948-01RE1	DMS	26-DEC-14	23:39:03	ST141226D2-1	NA
141226D2	6	1400948-02RE1	DMS	27-DEC-14	00:27:53	ST141226D2-1	NA
141226D2	7	1400948-03RE1	DMS	27-DEC-14	01:16:43	ST141226D2-1	NA
141226D2	8	SOLVENT BLANK	DMS	27-DEC-14	02:05:36	ST141226D2-1	NA
141226D2	9	SOLVENT BLANK	DMS	27-DEC-14	02:54:34	ST141226D2-1	NA
141226D2	10	SOLVENT BLANK	DMS	27-DEC-14	03:43:31	ST141226D2-1	NA

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141226E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141226E1 S#1 Analysis Date: 26-DEC-14 Time: 11:22:34

ANALYTES	ION	QC	PASS	CONC.	ANALYTES	ION	QC	PASS	CONC.
	ABUND.	LIMITS		CONC.		ABUND.	LIMITS		CONC.
	RATIO			FOUND		RATIO			FOUND
				(ng/mL)					(ng/mL)
PCB-1	3.02	2.66-3.60	y	49.1	PCB-52/69	0.79	0.65-0.89	y	97.5
PCB-2	3.05	2.66-3.60	y	48.5	PCB-73	0.78	0.65-0.89	y	54.0
PCB-3	3.04	2.66-3.60	y	49.1	PCB-43/49	0.80	0.65-0.89	y	97.0
PCB-4/10	1.64	1.33-1.79	y	227.9	PCB-47	0.79	0.65-0.89	y	49.1
PCB-7/9	1.64	1.33-1.79	y	224.5	PCB-48/75	0.79	0.65-0.89	y	103.6
PCB-6	1.64	1.33-1.79	y	107.1	PCB-65	0.79	0.65-0.89	y	53.5
PCB-5/8	1.64	1.33-1.79	y	224.8	PCB-62	0.79	0.65-0.89	y	46.9
PCB-14	1.65	1.33-1.79	y	114.9	PCB-44	0.79	0.65-0.89	y	49.0
PCB-11	1.65	1.33-1.79	y	113.5	PCB-42/59	0.79	0.65-0.89	y	99.2
PCB-12/13	1.65	1.33-1.79	y	226.2	PCB-41/64/71/72	0.78	0.65-0.89	y	203.1
PCB-15	1.65	1.33-1.79	y	111.9	PCB-68	0.79	0.65-0.89	y	50.3
PCB-19	1.09	0.88-1.20	y	51.9	PCB-40	0.78	0.65-0.89	y	49.8
PCB-30	1.09	0.88-1.20	y	52.5	PCB-57	0.80	0.65-0.89	y	50.9
PCB-18	1.08	0.88-1.20	y	51.3	PCB-67	0.78	0.65-0.89	y	47.2
PCB-17	1.08	0.88-1.20	y	51.4	PCB-58	0.80	0.65-0.89	y	50.4
PCB-24/27	1.08	0.88-1.20	y	104.6	PCB-63	0.76	0.65-0.89	y	49.6
PCB-16/32	1.08	0.88-1.20	y	102.2	PCB-74	0.79	0.65-0.89	y	51.3
PCB-34	1.07	0.88-1.20	y	57.9	PCB-61/70	0.79	0.65-0.89	y	101.5
PCB-23	1.09	0.88-1.20	y	48.1	PCB-76/66	0.80	0.65-0.89	y	103.1
PCB-29	1.07	0.88-1.20	y	51.9	PCB-80	0.80	0.65-0.89	y	50.0
PCB-26	1.07	0.88-1.20	y	51.1	PCB-55	0.81	0.65-0.89	y	48.7
PCB-25	1.07	0.88-1.20	y	51.2	PCB-56/60	0.80	0.65-0.89	y	100.3
PCB-31	1.06	0.88-1.20	y	48.7	PCB-79	0.80	0.65-0.89	y	49.0
PCB-28	1.08	0.88-1.20	y	54.5	PCB-78	0.78	0.65-0.89	y	52.8
PCB-20/21/33	1.07	0.88-1.20	y	152.4	PCB-81	0.77	0.65-0.89	y	52.1
PCB-22	1.07	0.88-1.20	y	52.5	PCB-77	0.80	0.65-0.89	y	53.0
PCB-36	1.07	0.88-1.20	y	54.3	PCB-104	1.63	1.32-1.78	y	53.5
PCB-39	1.06	0.88-1.20	y	53.8	PCB-96	1.60	1.32-1.78	y	55.8
PCB-38	1.06	0.88-1.20	y	55.8	PCB-103	1.57	1.32-1.78	y	54.4
PCB-35	1.05	0.88-1.20	y	52.7	PCB-100	1.60	1.32-1.78	y	53.6
PCB-37	1.06	0.88-1.20	y	52.4	PCB-94	1.61	1.32-1.78	y	53.0
PCB-54	0.79	0.65-0.89	y	50.5	PCB-95/98/102	1.60	1.32-1.78	y	161.9
PCB-50	0.77	0.65-0.89	y	48.4	PCB-93	1.65	1.32-1.78	y	50.8
PCB-53	0.81	0.65-0.89	y	50.4	PCB-88/91	1.58	1.32-1.78	y	121.4
PCB-51	0.80	0.65-0.89	y	53.8	PCB-121	1.63	1.32-1.78	y	43.7
PCB-45	0.79	0.65-0.89	y	51.2					
PCB-46	0.81	0.65-0.89	y	49.5					

Analyst: DMS

Date: 12/26/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141226E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141226E1 S#1 Analysis Date: 26-DEC-14 Time: 11:22:34

ANALYTES	ION	QC	PASS	CONC.	CONC.	ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND			RANGE	ABUND.		LIMITS	
	RATIO			(ng/mL)			RATIO			(ng/mL)	
PCB-84/92	1.62	1.32-1.78	y	105.6	75.0-125	PCB-140	1.26	1.05-1.43	y	50.3	37.5-62.5
PCB-89	1.60	1.32-1.78	y	54.9	37.5-62.5	PCB-134/143	1.24	1.05-1.43	y	106.9	75.0-125
PCB-90/101	1.61	1.32-1.78	y	105.4	75.0-125	PCB-133/142	1.26	1.05-1.43	y	102.6	75.0-125
PCB-113	1.57	1.32-1.78	y	49.5	37.5-62.5	PCB-131	1.26	1.05-1.43	y	49.9	37.5-62.5
PCB-99	1.66	1.32-1.78	y	56.0	37.5-62.5	PCB-146/165	1.25	1.05-1.43	y	106.1	75.0-125
PCB-119	1.61	1.32-1.78	y	54.2	37.5-62.5	PCB-132/161	1.30	1.05-1.43	y	106.3	75.0-125
PCB-108/112	1.63	1.32-1.78	y	108.9	75.0-125	PCB-153	1.19	1.05-1.43	y	54.9	37.5-62.5
PCB-83	1.61	1.32-1.78	y	54.5	37.5-62.5	PCB-168	1.25	1.05-1.43	y	53.4	37.5-62.5
PCB-97	1.65	1.32-1.78	y	53.6	37.5-62.5	PCB-141	1.26	1.05-1.43	y	52.6	37.5-62.5
PCB-86	1.59	1.32-1.78	y	53.4	37.5-62.5	PCB-137	1.23	1.05-1.43	y	51.0	37.5-62.5
PCB-87/117/125	1.61	1.32-1.78	y	157.3	112.5-225	PCB-130	1.29	1.05-1.43	y	53.6	37.5-62.5
PCB-111/115	1.58	1.32-1.78	y	102.0	75.0-125	PCB-138/163/164	1.26	1.05-1.43	y	162.9	112.5-225
PCB-85/116	1.63	1.32-1.78	y	109.6	75.0-125	PCB-158/160	1.25	1.05-1.43	y	106.8	75.0-125
PCB-120	1.67	1.32-1.78	y	52.6	37.5-62.5	PCB-129	1.27	1.05-1.43	y	51.6	37.5-62.5
PCB-110	1.58	1.32-1.78	y	55.3	37.5-62.5	PCB-166	1.28	1.05-1.43	y	53.0	37.5-62.5
PCB-82	1.60	1.32-1.78	y	56.6	37.5-62.5	PCB-159	1.27	1.05-1.43	y	53.5	37.5-62.5
PCB-124	1.54	1.32-1.78	y	55.5	37.5-62.5	PCB-128/162	1.26	1.05-1.43	y	107.5	75.0-125
PCB-107/109	1.62	1.32-1.78	y	107.1	75.0-125	PCB-167	1.26	1.05-1.43	y	52.4	37.5-62.5
PCB-123	1.59	1.32-1.78	y	54.5	37.5-62.5	PCB-156	1.28	1.05-1.43	y	53.8	37.5-62.5
PCB-106/118	1.62	1.32-1.78	y	106.8	75.0-125	PCB-157	1.27	1.05-1.43	y	53.7	37.5-62.5
PCB-114	1.63	1.32-1.78	y	56.8	37.5-62.5	PCB-169	1.26	1.05-1.43	y	52.4	37.5-62.5
PCB-122	1.59	1.32-1.78	y	54.1	37.5-62.5	PCB-188	1.07	0.89-1.21	y	53.2	37.5-62.5
PCB-105	1.60	1.32-1.78	y	57.7	37.5-62.5	PCB-184	1.06	0.89-1.21	y	53.6	37.5-62.5
PCB-127	1.65	1.32-1.78	y	56.3	37.5-62.5	PCB-179	1.06	0.89-1.21	y	50.9	37.5-62.5
PCB-126	1.61	1.32-1.78	y	57.5	37.5-62.5	PCB-176	1.05	0.89-1.21	y	50.9	37.5-62.5
PCB-155	1.30	1.05-1.43	y	52.4	37.5-62.5	PCB-186	1.04	0.89-1.21	y	53.1	37.5-62.5
PCB-150	1.30	1.05-1.43	y	51.6	37.5-62.5	PCB-178	1.06	0.89-1.21	y	51.8	37.5-62.5
PCB-152	1.26	1.05-1.43	y	50.2	37.5-62.5	PCB-175	1.02	0.89-1.21	y	51.3	37.5-62.5
PCB-145	1.26	1.05-1.43	y	49.9	37.5-62.5	PCB-182/187	1.04	0.89-1.21	y	103.9	75.0-125
PCB-136	1.38	1.05-1.43	y	50.0	37.5-62.5	PCB-183	1.07	0.89-1.21	y	50.7	37.5-62.5
PCB-148	1.14	1.05-1.43	y	53.2	37.5-62.5	PCB-185	1.02	0.89-1.21	y	47.8	37.5-62.5
PCB-154	1.25	1.05-1.43	y	54.3	37.5-62.5	PCB-174	1.07	0.89-1.21	y	50.5	37.5-62.5
PCB-151	1.32	1.05-1.43	y	50.4	37.5-62.5	PCB-181	1.07	0.89-1.21	y	46.2	37.5-62.5
PCB-135	1.27	1.05-1.43	y	48.8	37.5-62.5	PCB-177	1.06	0.89-1.21	y	49.4	37.5-62.5
PCB-144	1.28	1.05-1.43	y	49.8	37.5-62.5	PCB-171	1.09	0.89-1.21	y	50.2	37.5-62.5
PCB-147	1.27	1.05-1.43	y	51.0	37.5-62.5	PCB-173	1.05	0.89-1.21	y	48.1	37.5-62.5
PCB-139/149	1.30	1.05-1.43	y	103.4	75.0-125	PCB-172	1.05	0.89-1.21	y	50.6	37.5-62.5

Analyst: DMS

Date: 12/26/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Page 2 of

Lab Name: Vista Analytical Laboratory Lab ID: ST141226E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141226E1 S#1 Analysis Date: 26-DEC-14 Time: 11:22:34

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(ng/mL)
PCB-192	1.06	0.89-1.21	y	51.2	37.5-62.5
PCB-180	1.05	0.89-1.21	y	51.1	37.5-62.5
PCB-193	1.07	0.89-1.21	y	52.7	37.5-62.5
PCB-191	1.06	0.89-1.21	y	52.5	37.5-62.5
PCB-170	1.04	0.89-1.21	y	55.1	37.5-62.5
PCB-190	1.07	0.89-1.21	y	55.3	37.5-62.5
PCB-189	1.09	0.89-1.21	y	53.9	37.5-62.5
PCB-202	0.90	0.76-1.02	y	49.6	37.5-62.5
PCB-201	0.87	0.76-1.02	y	48.7	37.5-62.5
PCB-204	0.93	0.76-1.02	y	50.9	37.5-62.5
PCB-197	0.91	0.76-1.02	y	51.7	37.5-62.5
PCB-200	0.89	0.76-1.02	y	53.3	37.5-62.5
PCB-198	0.92	0.76-1.02	y	45.2	37.5-62.5
PCB-199	0.92	0.76-1.02	y	54.1	37.5-62.5
PCB-196/203	0.93	0.76-1.02	y	101.1	75.0-125
PCB-195	0.90	0.76-1.02	y	50.0	37.5-62.5
PCB-194	0.94	0.76-1.02	y	53.1	37.5-62.5
PCB-205	0.92	0.76-1.02	y	54.9	37.5-62.5
PCB-208	1.35	1.14-1.54	y	52.2	37.5-62.5
PCB-207	1.38	1.14-1.54	y	54.7	37.5-62.5
PCB-206	1.35	1.14-1.54	y	54.3	37.5-62.5
PCB-209	1.17	0.99-1.33	y	53.7	37.5-62.5

Analyst: DMSDate: 12/26/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST141226E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 141226E1 S#1 Analysis Date: 26-DEC-14 Time: 11:22:34

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	3.25	2.66-3.60	y	116.3	50.0-145	13C-PCB-169	1.30	1.05-1.43	y	103.6	50 - 145
13C-PCB-3	3.31	2.66-3.60	y	114.1	50.0-145	13C-PCB-188	0.49	0.38-0.52	y	96.7	50 - 145
13C-PCB-4	1.61	1.33-1.79	y	108.4	50.0-145	13C-PCB-180	0.45	0.38-0.52	y	99.1	50 - 145
13C-PCB-9	1.62	1.33-1.79	y	107.3	50.0-145	13C-PCB-170	0.49	0.38-0.52	y	91.7	50 - 145
13C-PCB-11	1.61	1.33-1.79	y	101.0	50.0-145	13C-PCB-189	0.45	0.38-0.52	y	90.3	50 - 145
13C-PCB-19	1.09	0.88-1.20	y	89.7	50.0-145	13C-PCB-202	0.96	0.76-1.02	y	93.7	50 - 145
13C-PCB-32	1.08	0.88-1.20	y	90.1	50.0-145	13C-PCB-194	0.95	0.76-1.02	y	99.7	50 - 145
13C-PCB-28	1.09	0.88-1.20	y	100.3	50.0-145	13C-PCB-208	0.78	0.65-0.89	y	83.7	50 - 145
13C-PCB-37	1.08	0.88-1.20	y	92.5	50.0-145	13C-PCB-206	0.79	0.65-0.89	y	93.1	50 - 145
13C-PCB-54	0.80	0.65-0.89	y	106.4	50.0-145	13C-PCB-209	1.19	0.99-1.33	y	101.0	50 - 145
13C-PCB-52	0.81	0.65-0.89	y	99.3	50.0-145						
13C-PCB-47	0.79	0.65-0.89	y	99.6	50.0-145						
13C-PCB-70	0.79	0.65-0.89	y	98.5	50.0-145						
13C-PCB-80	0.80	0.65-0.89	y	100.4	50.0-145						
13C-PCB-81	0.80	0.65-0.89	y	96.7	50.0-145						
13C-PCB-77	0.80	0.65-0.89	y	97.1	50.0-145						
13C-PCB-104	1.61	1.32-1.78	y	99.3	50.0-145						
13C-PCB-95	1.59	1.32-1.78	y	100.2	50.0-145						
13C-PCB-101	1.56	1.32-1.78	y	100.0	50.0-145	CRS vs. RS					
13C-PCB-97	1.65	1.32-1.78	y	101.1	50.0-145						
13C-PCB-123	1.56	1.32-1.78	y	100.0	50.0-145	13C-PCB-79	0.78	0.65-0.89	y	100.3	75 - 125
13C-PCB-118	1.60	1.32-1.78	y	102.3	50.0-145	13C-PCB-178	0.47	0.38-0.52	y	99.9	75 - 125
13C-PCB-114	1.64	1.32-1.78	y	114.2	50.0-145						
13C-PCB-105	1.64	1.32-1.78	y	115.9	50.0-145						
13C-PCB-127	1.64	1.32-1.78	y	115.2	50.0-145						
13C-PCB-126	1.68	1.32-1.78	y	112.5	50.0-145						
13C-PCB-155	1.26	1.05-1.43	y	99.2	50.0-145						
13C-PCB-153	1.32	1.05-1.43	y	102.0	50.0-145						
13C-PCB-141	1.29	1.05-1.43	y	101.5	50.0-145						
13C-PCB-138	1.26	1.05-1.43	y	102.6	50.0-145						
13C-PCB-159	1.30	1.05-1.43	y	99.5	50.0-145						
13C-PCB-167	1.26	1.05-1.43	y	101.4	50.0-145						
13C-PCB-156	1.33	1.05-1.43	y	97.2	50.0-145						
13C-PCB-157	1.37	1.05-1.43	y	99.4	50.0-145						

Analyst: Dms

Date: 12/26/14

Client ID: PCB CS3 14L2401
Lab ID: ST141226E1-1

Filename: 141226E1 S:1 Acq:26-DEC-14 11:22:34 ConCal: ST141226E1-1
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	4.60e+07	3.02	y	1.25	16:07	1.001	0.996-1.006	49.0610	PCB-52/69	4.16e+07	0.79	y	1.28	31:29	1.001	0.996-1.006	97.5413
PCB-2	4.38e+07	3.05	y	1.18	18:30	0.988	0.983-0.993	48.4802	PCB-73	2.47e+07	0.78	y	1.37	31:36	1.004	1.000-1.010	54.0317
PCB-3	4.57e+07	3.04	y	1.22	18:44	1.001	0.996-1.006	49.1032	PCB-43/49	3.60e+07	0.80	y	1.11	31:46	1.010	1.005-1.015	97.0303
PCB-4/10	1.52e+08	1.64	y	1.55	20:06	1.003	0.998-1.008	227.901	PCB-47	1.96e+07	0.79	y	1.13	31:59	1.000	0.996-1.006	49.1359
PCB-7/9	1.82e+08	1.64	y	1.27	21:52	0.868	0.865-0.873	224.470	PCB-48/75	4.75e+07	0.79	y	1.30	32:05	1.004	0.999-1.009	103.567
PCB-6	8.64e+07	1.64	y	1.26	22:31	0.893	0.890-0.899	107.139	PCB-65	2.51e+07	0.79	y	1.33	32:21	1.012	1.007-1.017	53.5466
PCB-5/8	1.77e+08	1.64	y	1.23	22:56	0.910	0.906-0.916	224.785	PCB-62	2.13e+07	0.79	y	1.29	32:28	1.016	1.011-1.021	46.9003
PCB-14	9.68e+07	1.65	y	1.23	24:02	0.954	0.949-0.959	114.906	PCB-44	1.62e+07	0.79	y	0.94	32:46	1.025	1.020-1.030	48.9585
PCB-11	8.99e+07	1.65	y	1.16	25:13	1.001	0.996-1.006	113.468	PCB-42/59	4.24e+07	0.79	y	1.22	33:00	1.032	1.028-1.038	99.2307
PCB-12/13	1.70e+08	1.65	y	1.10	25:37	1.017	1.010-1.020	226.181	PCB-41/64/71/72	9.37e+07	0.78	y	1.31	33:35	1.050	1.046-1.056	203.143
PCB-15	9.24e+07	1.65	y	1.21	25:55	1.028	1.024-1.034	111.876	PCB-68	2.62e+07	0.79	y	1.49	33:50	1.058	1.054-1.064	50.2548
PCB-19	2.32e+07	1.09	y	1.30	24:13	1.001	0.996-1.006	51.9110	PCB-40	1.43e+07	0.78	y	0.82	34:04	1.066	1.061-1.071	49.7899
PCB-30	3.31e+07	1.09	y	1.83	25:06	1.038	1.032-1.042	52.4544	PCB-57	2.50e+07	0.80	y	1.11	34:25	0.970	0.965-0.975	50.9394
PCB-18	2.34e+07	1.08	y	0.86	25:51	0.954	0.949-0.959	51.3106	PCB-67	2.23e+07	0.78	y	1.07	34:43	0.979	0.974-0.984	47.1795
PCB-17	2.45e+07	1.08	y	0.90	26:01	0.960	0.955-0.965	51.3844	PCB-58	2.45e+07	0.80	y	1.10	34:50	0.982	0.977-0.987	50.4214
PCB-24/27	6.52e+07	1.08	y	1.18	26:36	0.981	0.976-0.986	104.575	PCB-63	2.44e+07	0.76	y	1.12	34:59	0.986	0.982-0.992	49.5894
PCB-16/32	5.58e+07	1.08	y	1.03	27:06	1.000	0.995-1.005	102.232	PCB-74	2.72e+07	0.79	y	1.20	35:16	0.994	0.990-1.000	51.3047
PCB-34	4.24e+07	1.07	y	1.26	27:54	0.960	0.956-0.966	57.9144	PCB-61/70	4.83e+07	0.79	y	1.08	35:28	1.000	0.994-1.004	101.519
PCB-23	3.66e+07	1.09	y	1.31	28:00	0.964	0.959-0.969	48.0997	PCB-76/66	5.17e+07	0.80	y	1.14	35:40	1.005	1.001-1.011	103.138
PCB-29	4.00e+07	1.07	y	1.33	28:15	0.972	0.967-0.977	51.8619	PCB-80	2.92e+07	0.80	y	1.28	35:54	1.000	0.996-1.006	49.9682
PCB-2b	3.84e+07	1.07	y	1.29	28:27	0.979	0.974-0.984	51.1481	PCB-55	2.48e+07	0.81	y	1.11	36:13	1.009	1.005-1.015	48.6946
PCB-25	4.00e+07	1.07	y	1.34	28:36	0.984	0.980-0.990	51.2350	PCB-56/60	4.99e+07	0.80	y	1.09	36:43	1.023	1.018-1.028	100.312
PCB-31	4.02e+07	1.06	y	1.42	28:58	0.997	0.992-1.002	48.7304	PCB-79	2.52e+07	0.80	y	1.12	37:47	1.053	1.048-1.058	48.9897
PCB-28	4.36e+07	1.08	y	1.38	29:04	1.000	0.996-1.006	54.5299	PCB-78	2.51e+07	0.78	y	1.24	38:28	0.986	0.982-0.992	52.7855
PCB-20/21/33	1.16e+08	1.07	y	1.31	29:41	1.022	1.017-1.027	152.380	PCB-81	2.76e+07	0.77	y	1.38	39:00	1.000	0.995-1.005	52.0736
PCB-22	4.03e+07	1.07	y	1.32	30:07	1.037	1.032-1.042	52.5278	PCB-77	2.63e+07	0.80	y	1.21	39:35	1.000	0.995-1.005	53.0114
PCB-36	3.75e+07	1.07	y	1.38	30:44	0.934	0.929-0.939	54.3345	PCB-104	1.80e+07	1.63	y	1.26	32:38	1.000	0.996-1.006	53.5354
PCB-39	3.83e+07	1.06	y	1.42	31:12	0.948	0.943-0.953	53.7951	PCB-96	1.63e+07	1.60	y	1.09	33:53	1.039	1.034-1.044	55.7688
PCB-38	3.79e+07	1.06	y	1.35	31:59	0.971	0.967-0.976	55.7631	PCB-103	1.35e+07	1.57	y	0.93	34:26	1.056	1.050-1.060	54.3848
PCB-35	3.64e+07	1.05	y	1.38	32:29	0.987	0.982-0.992	52.7481	PCB-100	1.43e+07	1.60	y	1.00	34:47	1.066	1.061-1.071	53.5569
PCB-37	3.66e+07	1.06	y	1.39	32:55	1.000	0.996-1.006	52.4316	PCB-94	1.18e+07	1.61	y	1.11	35:15	0.985	0.981-0.991	53.0209
PCB-54	2.59e+07	0.79	y	1.20	27:57	1.001	0.996-1.006	50.5271	PCB-95/98/102	3.96e+07	1.60	y	1.21	35:45	0.999	0.994-1.004	161.943
PCB-50	2.01e+07	0.77	y	0.97	29:07	1.042	1.037-1.047	48.4145	PCB-93	1.16e+07	1.65	y	1.13	35:53	1.003	0.998-1.008	50.8371
PCB-53	2.00e+07	0.81	y	1.19	29:46	0.946	0.941-0.951	50.3694	PCB-88/91	2.49e+07	1.58	y	1.02	36:10	1.011	1.006-1.016	121.372
PCB-51	2.07e+07	0.80	y	1.15	30:06	0.957	0.952-0.962	53.8174	PCB-121	1.67e+07	1.63	y	1.90	36:17	1.014	1.009-1.019	43.6647
PCB-45	1.65e+07	0.79	y	0.97	30:32	0.970	0.966-0.976	51.2166	PCB-84/92	2.36e+07	1.62	y	1.05	37:05	0.990	0.986-0.996	105.573
PCB-46	1.57e+07	0.81	y	0.95	31:01	0.986	0.982-0.992	49.5073	PCB-89	1.18e+07	1.60	y	1.02	37:17	0.996	0.991-1.001	54.8951

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations

by
Analyst: Dms

Date: 12/26/14

Reviewed

by
Analyst: CJ

Date: 12/29/14

Client ID: PCB CS3 14L2401
Lab ID: ST141226E1-1

Filename: 141226E1 S:1 Acq:26-DEC-14 11:22:34 ConCal: ST141226E1-1
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-90/101	2.66e+07	1.61 y	1.19	37:28	1.000	0.996-1.006		105.435	PCB-133/142	2.89e+07	1.26 y	0.95	42:23	0.982	0.977-0.987		102.635
PCB-113	1.42e+07	1.57 y	1.35	37:42	1.007	1.002-1.012		49.4509	PCB-131	1.36e+07	1.26 y	0.91	42:33	0.986	0.981-0.991		49.8732
PCB-99	1.53e+07	1.66 y	1.29	37:47	1.009	1.005-1.015		55.9738	PCB-146/165	3.65e+07	1.25 y	1.16	42:46	0.991	0.986-0.996		106.102
PCB-119	1.76e+07	1.61 y	1.72	38:16	0.987	0.982-0.992		54.2424	PCB-132/161	3.52e+07	1.30 y	1.11	43:01	0.996	0.992-1.002		106.266
PCB-108/112	2.64e+07	1.63 y	1.29	38:25	0.991	0.986-0.996		108.901	PCB-153	1.93e+07	1.19 y	1.18	43:11	1.000	0.995-1.005		54.9480
PCB-83	1.56e+07	1.61 y	1.52	38:34	0.995	0.991-1.001		54.5003	PCB-168	2.18e+07	1.25 y	1.37	43:24	1.005	1.000-1.010		53.4064
PCB-97	1.26e+07	1.65 y	1.25	38:47	1.001	0.996-1.006		53.5763	PCB-141	1.46e+07	1.26 y	0.97	43:55	1.000	0.996-1.005		52.6016
PCB-86	1.03e+07	1.59 y	1.02	38:55	1.004	1.000-1.010		53.3577	PCB-137	1.56e+07	1.23 y	1.07	44:18	1.009	1.004-1.014		51.0443
B-87/117/125	4.61e+07	1.61 y	1.56	39:02	1.007	1.002-1.012		157.300	PCB-130	1.30e+07	1.29 y	0.85	44:24	1.011	1.007-1.017		53.5939
PCB-111/115	3.36e+07	1.58 y	1.75	39:12	1.011	1.007-1.017		102.017	PCB-138/163/164	5.61e+07	1.26 y	1.23	44:47	1.001	0.996-1.006		162.940
PCB-85/116	2.69e+07	1.63 y	1.30	39:20	1.015	1.010-1.020		109.584	PCB-158/160	3.87e+07	1.25 y	1.29	45:01	1.006	1.001-1.011		106.779
PCB-120	1.76e+07	1.67 y	1.78	39:34	1.021	1.016-1.026		52.6249	PCB-129	1.34e+07	1.27 y	0.92	45:15	1.011	1.007-1.017		51.5618
PCB-110	1.75e+07	1.58 y	1.68	39:42	1.024	1.020-1.030		55.3219	PCB-166	1.85e+07	1.28 y	1.12	45:43	0.993	0.988-0.998		53.0093
PCB-82	1.07e+07	1.60 y	0.74	40:20	0.976	0.972-0.982		56.5594	PCB-159	1.95e+07	1.27 y	1.16	46:02	1.000	0.995-1.005		53.4771
PCB-124	1.88e+07	1.54 y	1.32	41:01	0.993	0.988-0.998		55.5492	PCB-128/162	3.43e+07	1.26 y	1.02	46:20	1.007	1.002-1.012		107.467
PCB-107/109	3.35e+07	1.62 y	1.22	41:10	0.996	0.991-1.001		107.112	PCB-167	1.96e+07	1.26 y	1.06	46:43	1.000	0.995-1.005		52.4246
PCB-123	1.70e+07	1.59 y	1.22	41:20	1.000	0.995-1.005		54.4885	PCB-156	2.02e+07	1.28 y	1.18	48:02	1.001	0.995-1.005		53.7928
- PCB-106/118	3.56e+07	1.62 y	1.22	41:31	1.000	0.996-1.006		106.792	PCB-157	1.99e+07	1.27 y	1.08	48:17	1.000	0.995-1.005		53.6612
- PCB-114	2.78e+07	1.63 y	1.36	42:10	1.000	0.995-1.005		56.7522	PCB-169	1.92e+07	1.26 y	1.11	50:27	1.000	0.995-1.005		52.3884
PCB-122	2.42e+07	1.59 y	1.24	42:18	1.004	0.999-1.009		54.1231	PCB-188	1.77e+07	1.07 y	1.40	42:49	1.001	0.995-1.005		53.2340
PCB-105	2.79e+07	1.60 y	1.28	43:01	1.000	0.995-1.005		57.6649	PCB-184	1.57e+07	1.06 y	1.24	43:16	1.011	1.006-1.016		53.6054
PCB-127	2.60e+07	1.65 y	1.14	43:22	1.001	0.995-1.005		56.3159	PCB-179	1.58e+07	1.06 y	1.30	44:03	1.029	1.024-1.034		50.8710
PCB-126	2.53e+07	1.61 y	1.28	45:15	1.000	0.995-1.005		57.4797	PCB-176	1.65e+07	1.05 y	1.36	44:31	1.040	1.035-1.045		50.9379
PCB-155	1.33e+07	1.30 y	1.14	37:01	1.001	0.966-1.006		52.3973	PCB-186	1.61e+07	1.04 y	1.28	45:07	1.054	1.049-1.059		53.0814
PCB-150	1.22e+07	1.30 y	1.06	38:17	1.035	1.030-1.040		51.5963	PCB-178	1.15e+07	1.06 y	0.94	45:37	1.066	1.061-1.071		51.7635
PCB-152	1.23e+07	1.26 y	1.10	38:45	1.048	1.043-1.053		50.1774	PCB-175	1.18e+07	1.02 y	0.97	45:57	1.074	1.069-1.079		51.2635
PCB-145	1.22e+07	1.26 y	1.09	39:12	1.060	1.055-1.065		49.8712	PCB-182/187	2.50e+07	1.04 y	1.01	46:08	1.078	1.073-1.083		103.862
PCB-136	1.21e+07	1.38 y	1.08	39:32	1.068	1.064-1.074		50.0231	PCB-183	1.30e+07	1.07 y	1.08	46:27	1.085	1.080-1.090		50.7129
PCB-148	8.79e+06	1.14 y	0.74	39:38	1.071	1.066-1.076		53.1982	PCB-185	1.12e+07	1.02 y	1.34	47:06	0.956	0.951-0.961		47.8238
PCB-154	1.07e+07	1.25 y	0.88	40:07	1.084	1.079-1.089		54.2649	PCB-174	1.18e+07	1.07 y	1.34	47:28	0.963	0.958-0.968		50.5171
PCB-151	9.10e+06	1.32 y	0.81	40:46	1.102	1.097-1.107		50.4409	PCB-181	1.10e+07	1.07 y	1.36	47:35	0.965	0.961-0.971		46.2495
PCB-135	8.48e+06	1.27 y	0.78	40:58	1.108	1.101-1.113		48.8197	PCB-177	1.07e+07	1.06 y	1.24	47:44	0.968	0.964-0.974		49.4231
PCB-144	9.10e+06	1.28 y	0.82	41:05	1.110	1.105-1.116		49.7949	PCB-171	1.15e+07	1.09 y	1.31	48:02	0.974	0.970-0.980		50.1933
PCB-147	9.42e+06	1.27 y	0.83	41:13	1.114	1.011-1.120		50.9653	PCB-173	9.76e+06	1.05 y	1.16	48:28	0.983	0.979-0.989		48.0578
PCB-139/149	1.95e+07	1.30 y	0.84	41:29	1.121	1.115-1.127		103.370	PCB-172	1.08e+07	1.05 y	1.22	48:54	0.992	0.988-0.998		50.6435
- PCB-140	8.80e+06	1.26 y	0.79	41:39	1.126	1.120-1.132		50.3010	PCB-192	1.37e+07	1.06 y	1.53	49:06	0.996	0.991-1.001		51.2023
- PCB-134/143	2.95e+07	1.24 y	0.93	42:05	0.975	0.970-0.980		106.881	PCB-180	1.28e+07	1.05 y	1.43	49:19	1.000	0.995-1.005		51.0762

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: DMS

Date: 12/26/14

Client ID: PCB CS3 14L2401
Lab ID: ST141226E1-1

Filename: 141226E1 S:1 Acq:26-DEC-14 11:22:34
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST141226E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	1.53e+07	1.07 y	1.65	49:31	1.004	0.999-1.009		52.6816
PCB-191	1.54e+07	1.06 y	1.67	49:46	1.010	1.004-1.014		52.5322
PCB-170	1.06e+07	1.04 y	1.50	50:49	1.000	0.995-1.005		55.0817
PCB-190	1.44e+07	1.07 y	2.02	50:60	1.004	0.998-1.008		55.2871
PCB-189	1.41e+07	1.09 y	1.54	52:21	1.000	0.995-1.005		53.9014
PCB-202	1.06e+07	0.90 y	1.04	48:14	1.000	0.995-1.005		49.6379
PCB-201	1.10e+07	0.87 y	1.10	48:43	1.010	1.006-1.016		48.7498
PCB-204	1.04e+07	0.93 y	0.99	48:52	1.013	1.009-1.019		50.9134
PCB-197	1.13e+07	0.91 y	1.07	49:10	1.020	1.015-1.025		51.6677
PCB-200	1.11e+07	0.89 y	1.02	50:04	1.038	1.032-1.044		53.3109
PCB-198	6.88e+06	0.92 y	0.74	51:25	1.066	1.058-1.068		45.2265
PCB-199	8.07e+06	0.92 y	0.73	51:32	1.069	1.060-1.070		54.1053
- PCB-196/203	1.60e+07	0.93 y	0.77	51:48	1.074	1.066-1.076		101.083
- PCB-195	1.51e+07	0.90 y	1.20	52:59	0.984	0.979-0.989		50.0390
PCB-194	1.66e+07	0.94 y	1.25	53:52	1.000	0.995-1.005		53.1109
PCB-205	1.95e+07	0.92 y	1.41	54:08	1.005	1.001-1.011		54.8823
PCB-208	1.47e+07	1.35 y	0.96	53:08	1.000	0.995-1.005		52.1614
PCB-207	1.47e+07	1.38 y	0.92	53:27	1.006	1.001-1.011		54.6571
PCB-206	1.07e+07	1.35 y	1.03	55:29	1.000	0.995-1.005		54.3183
PCB-209	1.22e+07	1.17 y	1.18	56:51	1.000	0.995-1.005		53.6915

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.36e+08	3.02 y	16:07	1.22	146.644	
Total Di-PCB	1.05e+09	1.64 y	20:06	1.21	1353.03	
Total Tri-PCB	2.25e+08	1.09 y	24:13	1.16	413.868	
Total Tetra-PCB	6.34e+08	1.07 y	27:54	1.35	850.146	Sum:1264.01
Total Penta-PCB	9.68e+08	0.79 y	27:57	1.17	2138.23	
Total Penta-PCB	5.99e+08	1.63 y	32:38	1.21	2204.88	
Total Penta-PCB	1.40e+08	1.63 y	42:10	1.26	300.730	Sum:2505.61
Total Hexa-PCB	1.46e+08	1.30 y	37:01	0.92	715.220	
Total Hexa-PCB	4.96e+08	1.24 y	42:05	1.08	1512.31	Sum:2227.53
Total Hepta-PCB	3.19e+08	1.07 y	42:49	1.27	1244.14	
Total Octa-PCB	8.53e+07	0.90 y	48:14	0.92	454.695	
Total Octa-PCB	5.20e+07	0.90 y	52:59	1.29	160.459	Sum:615.154
Total Nona-PCB	4.06e+07	1.35 y	53:08	0.96	163.526	
Total Deca-PCB	1.22e+07	1.17 y	56:51	1.18	53.6915	

Total PCB Conc:11610.9534460

RL: MONO, TRI - DECA: _____

Integrations

by

Analyst: *DMJ*

Date: *12/26/14*

Client ID: PCB CS3 14L2401
Lab ID: ST141226E1-1

Filename: 141226E1 S:1 Acq:26-DEC-14 11:22:34
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol:1.0000

ConCal: ST141226E1-1
EndCAL: NA

Page 2 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	7.48e+07	3.25 y	0.89	16:06	0.622	0.622-0.628		116	116											
13C-PCB-3	7.63e+07	3.31 y	0.93	18:43	0.722	0.721-0.729		114	114		13C-PCB-79	4.78e+07	0.78 y	1.01	37:46	1.029	1.023-1.033		100	100
13C-PCB-4	4.29e+07	1.61 y	0.55	20:03	0.774	0.772-0.780		108	108		13C-PCB-178	1.65e+07	0.47 y	0.63	45:35	0.985	0.979-0.989		99.9	99.9
13C-PCB-9	6.40e+07	1.62 y	0.83	21:50	0.843	0.840-0.848		107	107											
13C-PCB-11	6.84e+07	1.61 y	0.94	25:12	0.973	0.968-0.978		101	101											
13C-PCB-19	3.45e+07	1.09 y	0.53	24:11	0.934	0.929-0.939		89.7	89.7											
13C-PCB-28	5.81e+07	1.09 y	0.89	29:03	1.004	0.999-1.009		100	100		13C-PCB-79	4.78e+07	0.78 y	1.20	37:46	0.969	0.963-0.973		104	104
13C-PCB-32	5.30e+07	1.08 y	0.81	27:06	1.046	1.041-1.051		90.1	90.1		13C-PCB-178	1.65e+07	0.47 y	0.94	45:35	0.925	0.920-0.930		101	101
13C-PCB-37	5.02e+07	1.08 y	0.83	32:55	1.137	1.131-1.143		92.5	92.5											
13C-PCB-47	3.51e+07	0.79 y	0.74	31:58	0.871	0.867-0.875		99.6	99.6											
13C-PCB-52	3.33e+07	0.81 y	0.71	31:28	0.857	0.853-0.861		99.3	99.3											
13C-PCB-54	4.29e+07	0.80 y	0.85	27:56	0.761	0.758-0.766		106	106											
13C-PCB-70	4.41e+07	0.79 y	0.94	35:29	0.966	0.961-0.971		98.5	98.5											
13C-PCB-77	4.11e+07	0.80 y	0.89	39:35	1.078	1.073-1.083		97.1	97.1											
13C-PCB-80	4.58e+07	0.80 y	0.96	35:54	0.978	0.972-0.982		100	100											
13C-PCB-81	3.84e+07	0.80 y	0.84	38:60	1.062	1.057-1.067		96.7	96.7											
13C-PCB-95	2.01e+07	1.59 y	0.74	35:47	0.913	0.908-0.918		100	100											
13C-PCB-97	1.88e+07	1.65 y	0.69	38:45	0.989	0.984-0.994		101	101											
13C-PCB-101	2.12e+07	1.56 y	0.79	37:27	0.956	0.951-0.961		100	100											
13C-PCB-104	2.67e+07	1.61 y	1.00	32:37	0.832	0.829-0.837		99.3	99.3		13C-PCB-15	7.23e+07	1.59 y	1.00	25:54			100		
13C-PCB-105	3.76e+07	1.64 y	1.24	43:01	0.929	0.924-0.934		116	116		13C-PCB-31	6.52e+07	1.08 y	1.00	28:57			100		
13C-PCB-114	3.62e+07	1.64 y	1.21	42:09	0.910	0.905-0.915		114	114		13C-PCB-60	4.74e+07	0.80 y	1.00	36:43			100		
13C-PCB-118	2.72e+07	1.60 y	0.98	41:30	1.059	1.054-1.064		102	102		13C-PCB-111	2.70e+07	1.60 y	1.00	39:11			100		
13C-PCB-123	2.56e+07	1.56 y	0.95	41:19	1.054	1.049-1.059		100	100		13C-PCB-128	2.62e+07	1.30 y	1.00	46:18			100		
13C-PCB-126	3.43e+07	1.68 y	1.16	45:15	0.977	0.972-0.982		113	113		13C-PCB-205	3.12e+07	0.90 y	1.00	54:08			100		
13C-PCB-127	4.06e+07	1.64 y	1.34	43:21	0.936	0.931-0.941		115	115											
13C-PCB-138	2.81e+07	1.26 y	1.04	44:45	0.966	0.961-0.971		103	103											
13C-PCB-141	2.85e+07	1.29 y	1.07	43:54	0.948	0.943-0.953		102	102											
13C-PCB-153	2.98e+07	1.32 y	1.11	43:10	0.932	0.927-0.937		102	102											
13C-PCB-155	2.23e+07	1.26 y	0.83	36:60	0.944	0.939-0.949		99.2	99.2											
13C-PCB-156	3.18e+07	1.33 y	1.24	48:00	1.037	1.032-1.042		97.2	97.2											
13C-PCB-157	3.42e+07	1.37 y	1.31	48:16	1.043	1.037-1.047		99.4	99.4											
13C-PCB-159	3.13e+07	1.30 y	1.20	46:02	0.994	0.989-0.999		99.5	99.5											
13C-PCB-167	3.51e+07	1.26 y	1.32	46:43	1.009	1.004-1.014		101	101											
13C-PCB-169	3.30e+07	1.30 y	1.22	50:26	1.089	1.082-1.092		104	104											
13C-PCB-170	1.29e+07	0.49 y	0.54	50:49	1.097	1.089-1.101		91.7	91.7											
13C-PCB-180	1.75e+07	0.45 y	0.67	49:17	1.065	1.059-1.069		99.1	99.1											
13C-PCB-188	2.37e+07	0.49 y	0.94	42:48	0.924	0.919-0.929		96.7	96.7											
13C-PCB-189	1.69e+07	0.45 y	0.72	52:19	1.130	1.120-1.132		90.3	90.3											
13C-PCB-194	2.52e+07	0.95 y	0.81	53:51	0.995	0.990-1.000		99.7	99.7											
13C-PCB-202	2.05e+07	0.96 y	0.83	48:13	1.041	1.036-1.046		93.7	93.7											
13C-PCB-206	1.91e+07	0.79 y	0.66	55:28	1.025	1.021-1.031		93.1	93.1											
13C-PCB-208	2.93e+07	0.78 y	1.12	53:07	0.981	0.976-0.986		83.7	83.7											
13C-PCB-209	1.93e+07	1.19 y	0.61	56:51	1.050	1.044-1.054		101	101											

Analyst: *DMS*

Date: *12/26/14*

Vista Analytical Laboratory - Injection Log Run file: 141226E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141226E1	1	ST141226E1-1	DMS	26-DEC-14	11:22:34	ST141226E1-1	NA
141226E1	2	B4L0127-BS1	DMS	26-DEC-14	12:27:01	ST141226E1-1	NA
141226E1	3	SOLVENT BLANK	DMS	26-DEC-14	13:31:29	ST141226E1-1	NA
141226E1	4	B4L0127-BLK1	DMS	26-DEC-14	14:35:58	ST141226E1-1	NA
141226E1	5	1400934-01	DMS	26-DEC-14	15:40:25	ST141226E1-1	NA
141226E1	6	1400934-02	DMS	26-DEC-14	16:44:54	ST141226E1-1	NA
141226E1	7	1400948-04	DMS	26-DEC-14	17:49:21	ST141226E1-1	NA
141226E1	8	1400949-01	DMS	26-DEC-14	18:53:50	ST141226E1-1	NA
141226E1	9	1400949-02	DMS	26-DEC-14	19:58:16	ST141226E1-1	NA
141226E1	10	1400921-01@20X	DMS	26-DEC-14	21:02:49	ST141226E1-1	NA
141226E1	11	1400921-02@20X	DMS	26-DEC-14	22:07:16	ST141226E1-1	NA
141226E1	12	SOLVENT BLANK	DMS	26-DEC-14	23:11:49	ST141226E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST141226E1-1

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"/> N/A	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> <u>Dr</u> <u>2/29/14</u>	<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"/> <u>n</u>
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> (y)	<input type="checkbox"/> n

	<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 checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input type="checkbox"/> N/A	<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: CS 12/29/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

FORM 4B
 PCDD/PCDF CALIBRATION VERIFICATION
 CCAL ID: ST141229F1-1

Vista Analytical Laboratory
 Initial Calibration Date: 11/13/2014
 Instrument ID: VG-9
 VER Data file name: 141229F1-3

GC Column ID: DB-225
 Analysis Date: 29-Dec-14 Analysis Time: 06:53:24

Labeled Compounds	M/Z'S FORMING RATIO (1)	ION ABUND. 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	102	71.0 76.0	140.0 131.0 (5)	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: COJ
 Date: 12/29/14

Dataset: C:\MassLynx\Default.pro\Results\141229F1\141229F1_3.qld

Last Altered: Monday, December 29, 2014 08:50:17 Pacific Standard Time

Printed: Monday, December 29, 2014 08:51:31 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 24 Dec 2014 07:18:45

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141229F1-3, Date: 29-Dec-2014, Time: 06:53:24, ID: ST141229F1-1 1613 CS3 14I1102, Description: 1613 CS3 14I1102

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.57e4	0.79	NO	1.10	1.002	17.52	8.8699	88.9	0.183
2	2 13C-2,3,7,8-TCDF	2.63e5	0.79	NO	0.844	1.002	17.50	102.20	102	0.741
3	3 13C-1,2,3,4-TCDF	3.04e5	0.77	NO	1.00	1.002	15.23	99.801	100	0.625
4	4 13C-1,2,3,4-TCDD	2.27e5	0.79	NO		1.002	16.05			

CS 12/29/14

Dataset: Untitled

Last Altered: Monday, December 29, 2014 10:10:26 Pacific Standard Time

Printed: Monday, December 29, 2014 10:10:42 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 24 Dec 2014 07:18:45

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	141229F1-1	CP141229F1-1 DB-225 CPSM	29-Dec-14	05:50:59
2	141229F1-2	SOLVENT BLANK	29-Dec-14	06:21:03
3	141229F1-3	ST141229F1-1 1613 CS3 14I1102	29-Dec-14	06:53:24
4	141229F1-4	SOLVENT BLANK	29-Dec-14	07:25:47
5	141229F1-5	1400948-01RE2 SC-OWS-05-20141211-S 3.7	29-Dec-14	07:58:07
6	141229F1-6	1400948-02RE2 SC-CB-35-20141211-S 1.85	29-Dec-14	08:30:30
7	141229F1-7	1400948-03RE2 SC-CB-24-20141211-S 2.43	29-Dec-14	09:02:52
8	141229F1-8	SOLVENT BLANK	29-Dec-14	09:35:11

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST141229FI-1

End Calibration ID: N/A

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> N/A	<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"/> N/A
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: CP 12/09/14
Initials & Date

* Ending standard criteria applicable to 8290 only.

INITIAL CALIBRATION

Initial Calibration RRF Summary (ICAL)

Vista Analytical Laboratory

Run: 141016D1

Analyte:

Cal: 1613VG7-10-16-14

Inst. ID. VG-7

Data filename: 141016D1

			Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
			10	0.25	0.50	2.0	40	200
Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
2,3,7,8-TCDD	1.18	8.84 %	1.11	1.36	1.22	1.06	1.16	1.20
1,2,3,7,8-PeCDD	0.92	4.24 %	0.93	0.94	0.93	0.84	0.93	0.95
1,2,3,4,7,8-HxCDD	1.09	5.48 %	1.08	1.18	1.07	1.00	1.08	1.12
1,2,3,6,7,8-HxCDD	1.07	5.59 %	1.06	1.06	1.07	0.96	1.13	1.12
1,2,3,7,8,9-HxCDD	0.93	4.12 %	0.92	0.98	0.95	0.86	0.93	0.94
1,2,3,4,6,7,8-HpCDD	1.12	4.25 %	1.12	1.04	1.14	1.07	1.14	1.17
OCDD	0.95	4.99 %	0.97	0.96	0.97	0.85	0.97	0.98
2,3,7,8-TCDF	1.08	6.64 %	1.00	1.16	1.15	0.99	1.08	1.08
1,2,3,7,8-PeCDF	1.09	5.09 %	1.10	1.13	1.05	1.00	1.11	1.14
2,3,4,7,8-PeCDF	1.04	3.90 %	1.05	1.04	1.06	0.96	1.07	1.08
1,2,3,4,7,8-HxCDF	1.39	3.27 %	1.40	1.42	1.37	1.31	1.42	1.42
1,2,3,6,7,8-HxCDF	1.26	5.39 %	1.26	1.34	1.29	1.14	1.26	1.30
2,3,4,6,7,8-HxCDF	1.30	4.20 %	1.28	1.30	1.33	1.20	1.34	1.35
1,2,3,7,8,9-HxCDF	1.19	3.60 %	1.16	1.25	1.18	1.13	1.20	1.23
1,2,3,4,6,7,8-HpCDF	1.62	4.07 %	1.59	1.67	1.66	1.49	1.64	1.64
1,2,3,4,7,8,9-HpCDF	1.53	4.58 %	1.54	1.58	1.55	1.39	1.53	1.57
OCDF	1.10	4.20 %	1.11	1.09	1.13	1.01	1.13	1.14
13C-2,3,7,8-TCDD	1.07	5.97 %	1.05	1.00	1.07	1.04	1.10	1.18
13C-1,2,3,7,8-PeCDD	1.24	12.79 %	1.06	1.09	1.23	1.23	1.34	1.49
13C-1,2,3,4,7,8-HxCDD	0.72	7.50 %	0.70	0.69	0.70	0.70	0.73	0.83
13C-1,2,3,6,7,8-HxCDD	0.74	6.26 %	0.72	0.71	0.71	0.71	0.73	0.83
13C-1,2,3,7,8,9-HxCDD	0.86	6.66 %	0.83	0.81	0.83	0.83	0.86	0.97
13C-1,2,3,4,6,7,8-HpCDD	0.64	7.66 %	0.63	0.61	0.61	0.62	0.66	0.74
13C-OCDD	0.78	10.54 %	0.70	0.73	0.76	0.77	0.79	0.94
13C-2,3,7,8-TCDF	0.92	3.07 %	0.93	0.89	0.91	0.91	0.94	0.97
13C-1,2,3,7,8-PeCDF	0.95	10.44 %	0.86	0.87	0.90	0.95	1.01	1.12
13C-2,3,4,7,8-PeCDF	0.97	10.58 %	0.89	0.89	0.91	0.96	1.02	1.15
13C-1,2,3,4,7,8-HxCDF	0.99	7.56 %	0.92	0.94	0.96	0.98	1.01	1.13
13C-1,2,3,6,7,8-HxCDF	1.10	7.86 %	1.07	1.00	1.05	1.09	1.12	1.25
13C-2,3,4,6,7,8-HxCDF	1.03	5.39 %	0.97	1.00	1.02	1.01	1.04	1.13
13C-1,2,3,7,8,9-HxCDF	0.86	7.21 %	0.84	0.82	0.82	0.83	0.87	0.98
13C-1,2,3,4,6,7,8-HpCDF	0.71	7.44 %	0.70	0.69	0.67	0.69	0.72	0.82
13C-1,2,3,4,7,8,9-HpCDF	0.71	9.22 %	0.65	0.69	0.67	0.67	0.74	0.83
13C-OCDF	0.87	11.25 %	0.82	0.80	0.83	0.85	0.88	1.06
37Cl-2,3,7,8-TCDD	1.21	11.67 %	1.22	1.08	1.03	1.24	1.27	1.43
13C-1,2,3,4-TCDD	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4-TCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4,6,9-HxCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

ms 10/17/14
 CG 10/17/14

Filename: 141016D1 S: 1 Acquired: 16-OCT-14 11:05:57
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-1 1613 CS3 1411102

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	2.08e+06	0.73 y	26:60	-	1.11
2	Unk	1,2,3,7,8-PeCDD	50.00	8.78e+06	0.61 y	31:30	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	50.00	7.82e+06	1.26 y	34:50	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	50.00	7.94e+06	1.25 y	34:57	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	50.00	7.97e+06	1.24 y	35:15	-	0.92
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	7.29e+06	1.04 y	38:42	-	1.12
7	Unk	OCDD	100.00	1.40e+07	0.89 y	42:02	-	0.97
8	Unk	2,3,7,8-TCDF	10.00	2.78e+06	0.80 y	26:13	-	1.00
9	Unk	1,2,3,7,8-PeCDF	50.00	1.40e+07	1.59 y	30:20	-	1.10
10	Unk	2,3,4,7,8-PeCDF	50.00	1.38e+07	1.59 y	31:14	-	1.05
11	Unk	1,2,3,4,7,8-HxCDF	50.00	1.34e+07	1.29 y	33:56	-	1.40
12	Unk	1,2,3,6,7,8-HxCDF	50.00	1.40e+07	1.29 y	34:04	-	1.26
13	Unk	2,3,4,6,7,8-HxCDF	50.00	1.29e+07	1.31 y	34:40	-	1.28
14	Unk	1,2,3,7,8,9-HxCDF	50.00	1.01e+07	1.27 y	35:39	-	1.16
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	1.16e+07	1.08 y	37:30	-	1.59
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	1.04e+07	1.07 y	39:16	-	1.54
17	Unk	OCDF	100.00	1.88e+07	0.91 y	42:16	-	1.11
36	IS	13C-2,3,7,8-TCDD	100.00	1.87e+07	0.79 y	26:58	-	1.05
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.90e+07	0.63 y	31:29	-	1.06
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.44e+07	1.25 y	34:49	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.50e+07	1.25 y	34:56	-	0.72
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.72e+07	1.23 y	35:14	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.30e+07	1.07 y	38:42	-	0.63
42	IS	13C-OCDD	200.00	2.89e+07	0.89 y	42:02	-	0.70
43	IS	13C-2,3,7,8-TCDF	100.00	2.77e+07	0.74 y	26:12	-	0.93
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.54e+07	1.55 y	30:19	-	0.86
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.63e+07	1.61 y	31:13	-	0.89
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.92e+07	0.51 y	33:55	-	0.92
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.23e+07	0.50 y	34:03	-	1.07
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.02e+07	0.52 y	34:39	-	0.97
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.73e+07	0.51 y	35:38	-	0.84
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.46e+07	0.43 y	37:29	-	0.70
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.35e+07	0.45 y	39:15	-	0.65
52	IS	13C-OCDF	200.00	3.39e+07	0.92 y	42:15	-	0.82
53	C/Up	37Cl-2,3,7,8-TCDD	10.00	2.18e+06		26:59	-	1.22
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.79e+07	0.80 y	26:24	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.97e+07	0.78 y	24:58	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	2.08e+07	0.51 y	34:21	-	1.00

Filename: 141016D1 S: 3 Acquired: 16-OCT-14 12:42:43
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-2 1613 CS0 14I1819

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	5.01e+04	0.71 y	27:03	-	1.36
2	Unk	1,2,3,7,8-PeCDD	1.25	1.89e+05	0.58 y	31:32	-	0.94
3	Unk	1,2,3,4,7,8-HxCDD	1.25	1.80e+05	1.38 y	34:52	-	1.18
4	Unk	1,2,3,6,7,8-HxCDD	1.25	1.66e+05	1.38 y	34:59	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	1.25	1.76e+05	1.42 y	35:17	-	0.98
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	1.40e+05	0.92 y	38:44	-	1.04
7	Unk	OCDD	2.50	3.13e+05	0.92 y	42:04	-	0.96
8	Unk	2,3,7,8-TCDF	0.25	6.52e+04	0.82 y	26:17	-	1.16
9	Unk	1,2,3,7,8-PeCDF	1.25	3.11e+05	1.49 y	30:22	-	1.13
10	Unk	2,3,4,7,8-PeCDF	1.25	2.91e+05	1.54 y	31:15	-	1.04
11	Unk	1,2,3,4,7,8-HxCDF	1.25	2.95e+05	1.36 y	33:58	-	1.42
12	Unk	1,2,3,6,7,8-HxCDF	1.25	2.95e+05	1.26 y	34:06	-	1.34
13	Unk	2,3,4,6,7,8-HxCDF	1.25	2.89e+05	1.31 y	34:43	-	1.30
14	Unk	1,2,3,7,8,9-HxCDF	1.25	2.25e+05	1.36 y	35:41	-	1.25
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	2.54e+05	1.14 y	37:32	-	1.67
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	2.39e+05	1.08 y	39:18	-	1.58
17	Unk	OCDF	2.50	3.84e+05	0.91 y	42:18	-	1.09
36	IS	13C-2,3,7,8-TCDD	100.00	1.47e+07	0.79 y	27:02	-	1.00
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.61e+07	0.64 y	31:32	-	1.09
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.22e+07	1.24 y	34:51	-	0.69
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.25e+07	1.31 y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.44e+07	1.29 y	35:16	-	0.81
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.07e+07	1.03 y	38:43	-	0.61
42	IS	13C-OCDD	200.00	2.60e+07	0.89 y	42:03	-	0.73
43	IS	13C-2,3,7,8-TCDF	100.00	2.24e+07	0.75 y	26:16	-	0.89
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.20e+07	1.59 y	30:21	-	0.87
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.24e+07	1.61 y	31:15	-	0.89
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.66e+07	0.52 y	33:57	-	0.94
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.77e+07	0.51 y	34:05	-	1.00
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.77e+07	0.51 y	34:42	-	1.00
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.45e+07	0.52 y	35:40	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.22e+07	0.44 y	37:31	-	0.69
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.21e+07	0.43 y	39:17	-	0.69
52	IS	13C-OCDF	200.00	2.81e+07	0.92 y	42:17	-	0.80
53	C/Up	37C1-2,3,7,8-TCDD	0.25	4.00e+04		27:03	-	1.08
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.48e+07	0.80 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.52e+07	0.78 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.77e+07	0.53 y	34:23	-	1.00

Filename: 141016D1 S: 4 Acquired: 16-OCT-14 13:31:08
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-3 1613 CS1 14I1820

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	9.47e+04	0.71 y	27:03	-	1.22
2	Unk	1,2,3,7,8-PeCDD	2.50	4.17e+05	0.58 y	31:32	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	2.50	3.52e+05	1.23 y	34:52	-	1.07
4	Unk	1,2,3,6,7,8-HxCDD	2.50	3.60e+05	1.19 y	34:59	-	1.07
5	Unk	1,2,3,7,8,9-HxCDD	2.50	3.72e+05	1.18 y	35:16	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	3.28e+05	1.04 y	38:44	-	1.14
7	Unk	OCDD	5.00	7.00e+05	0.91 y	42:03	-	0.97
8	Unk	2,3,7,8-TCDF	0.50	1.35e+05	0.76 y	26:17	-	1.15
9	Unk	1,2,3,7,8-PeCDF	2.50	6.14e+05	1.75 y	30:22	-	1.05
10	Unk	2,3,4,7,8-PeCDF	2.50	6.26e+05	1.44 y	31:15	-	1.06
11	Unk	1,2,3,4,7,8-HxCDF	2.50	6.24e+05	1.23 y	33:58	-	1.37
12	Unk	1,2,3,6,7,8-HxCDF	2.50	6.42e+05	1.32 y	34:06	-	1.29
13	Unk	2,3,4,6,7,8-HxCDF	2.50	6.41e+05	1.24 y	34:42	-	1.33
14	Unk	1,2,3,7,8,9-HxCDF	2.50	4.56e+05	1.22 y	35:40	-	1.18
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	5.24e+05	1.07 y	37:32	-	1.66
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	4.91e+05	1.14 y	39:17	-	1.55
17	Unk	OCDF	5.00	8.91e+05	0.93 y	42:17	-	1.13
36	IS	13C-2,3,7,8-TCDD	100.00	1.56e+07	0.78 y	27:02	-	1.07
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.79e+07	0.63 y	31:31	-	1.23
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.32e+07	1.27 y	34:51	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.35e+07	1.26 y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.56e+07	1.27 y	35:16	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.15e+07	1.05 y	38:43	-	0.61
42	IS	13C-OCDD	200.00	2.89e+07	0.89 y	42:03	-	0.76
43	IS	13C-2,3,7,8-TCDF	100.00	2.36e+07	0.78 y	26:16	-	0.91
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.34e+07	1.58 y	30:21	-	0.90
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.37e+07	1.54 y	31:14	-	0.91
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.82e+07	0.52 y	33:57	-	0.96
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.99e+07	0.52 y	34:05	-	1.05
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.93e+07	0.52 y	34:41	-	1.02
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.55e+07	0.53 y	35:40	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.26e+07	0.43 y	37:31	-	0.67
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.27e+07	0.44 y	39:16	-	0.67
52	IS	13C-OCDF	200.00	3.15e+07	0.89 y	42:17	-	0.83
53	C/Up	37Cl-2,3,7,8-TCDD	0.50	7.54e+04		27:03	-	1.03
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.46e+07	0.79 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.60e+07	0.77 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.89e+07	0.52 y	34:22	-	1.00

Filename: 141016D1 S: 5 Acquired: 16-OCT-14 14:19:34
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-4 1613 CS2 14I1821

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	3.13e+05	0.82 y	27:03	-	1.06
2	Unk	1,2,3,7,8-PeCDD	10.00	1.47e+06	0.59 y	31:32	-	0.84
3	Unk	1,2,3,4,7,8-HxCDD	10.00	1.26e+06	1.28 y	34:52	-	1.00
4	Unk	1,2,3,6,7,8-HxCDD	10.00	1.24e+06	1.26 y	34:59	-	0.96
5	Unk	1,2,3,7,8,9-HxCDD	10.00	1.30e+06	1.28 y	35:17	-	0.86
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	1.21e+06	1.04 y	38:44	-	1.07
7	Unk	OCDD	20.00	2.38e+06	0.87 y	42:03	-	0.85
8	Unk	2,3,7,8-TCDF	2.00	4.47e+05	0.78 y	26:17	-	0.99
9	Unk	1,2,3,7,8-PeCDF	10.00	2.35e+06	1.55 y	30:22	-	1.00
10	Unk	2,3,4,7,8-PeCDF	10.00	2.32e+06	1.57 y	31:15	-	0.96
11	Unk	1,2,3,4,7,8-HxCDF	10.00	2.31e+06	1.29 y	33:58	-	1.31
12	Unk	1,2,3,6,7,8-HxCDF	10.00	2.24e+06	1.28 y	34:06	-	1.14
13	Unk	2,3,4,6,7,8-HxCDF	10.00	2.19e+06	1.30 y	34:42	-	1.20
14	Unk	1,2,3,7,8,9-HxCDF	10.00	1.69e+06	1.33 y	35:41	-	1.13
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	1.86e+06	1.10 y	37:32	-	1.49
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	1.69e+06	1.09 y	39:17	-	1.39
17	Unk	OCDF	20.00	3.11e+06	0.93 y	42:17	-	1.01
36	IS	13C-2,3,7,8-TCDD	100.00	1.47e+07	0.79 y	27:02	-	1.04
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.74e+07	0.63 y	31:31	-	1.23
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.26e+07	1.28 y	34:51	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.29e+07	1.24 y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.51e+07	1.23 y	35:16	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.13e+07	1.05 y	38:43	-	0.62
42	IS	13C-OCDD	200.00	2.79e+07	0.88 y	42:03	-	0.77
43	IS	13C-2,3,7,8-TCDF	100.00	2.26e+07	0.77 y	26:16	-	0.91
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.36e+07	1.54 y	30:21	-	0.95
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.40e+07	1.57 y	31:14	-	0.96
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.77e+07	0.50 y	33:57	-	0.98
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.97e+07	0.51 y	34:05	-	1.09
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.83e+07	0.52 y	34:41	-	1.01
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.50e+07	0.52 y	35:40	-	0.83
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.24e+07	0.43 y	37:31	-	0.69
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.22e+07	0.43 y	39:16	-	0.67
52	IS	13C-OCDF	200.00	3.07e+07	0.90 y	42:17	-	0.85
53	C/Up	37Cl-2,3,7,8-TCDD	2.00	3.51e+05		27:03	-	1.24
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.41e+07	0.80 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.49e+07	0.77 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.80e+07	0.52 y	34:22	-	1.00

Filename: 141016D1 S: 6 Acquired: 16-OCT-14 15:08:00
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-5 1613 CS4 1411822

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	40.00	6.36e+06	0.79 y	27:03	-	1.16
2 Unk	1,2,3,7,8-PeCDD	200.00	3.08e+07	0.61 y	31:32	-	0.93
3 Unk	1,2,3,4,7,8-HxCDD	200.00	2.57e+07	1.25 y	34:52	-	1.08
4 Unk	1,2,3,6,7,8-HxCDD	200.00	2.66e+07	1.26 y	34:59	-	1.13
5 Unk	1,2,3,7,8,9-HxCDD	200.00	2.59e+07	1.24 y	35:17	-	0.93
6 Unk	1,2,3,4,6,7,8-HpCDD	200.00	2.46e+07	1.04 y	38:44	-	1.14
7 Unk	OCDD	400.00	5.00e+07	0.89 y	42:03	-	0.97
8 Unk	2,3,7,8-TCDF	40.00	8.92e+06	0.77 y	26:17	-	1.08
9 Unk	1,2,3,7,8-PeCDF	200.00	4.90e+07	1.58 y	30:22	-	1.11
10 Unk	2,3,4,7,8-PeCDF	200.00	4.76e+07	1.60 y	31:15	-	1.07
11 Unk	1,2,3,4,7,8-HxCDF	200.00	4.66e+07	1.28 y	33:58	-	1.42
12 Unk	1,2,3,6,7,8-HxCDF	200.00	4.56e+07	1.28 y	34:06	-	1.26
13 Unk	2,3,4,6,7,8-HxCDF	200.00	4.54e+07	1.26 y	34:42	-	1.34
14 Unk	1,2,3,7,8,9-HxCDF	200.00	3.40e+07	1.28 y	35:40	-	1.20
15 Unk	1,2,3,4,6,7,8-HpCDF	200.00	3.84e+07	1.09 y	37:32	-	1.64
16 Unk	1,2,3,4,7,8,9-HpCDF	200.00	3.69e+07	1.08 y	39:17	-	1.53
17 Unk	OCDF	400.00	6.50e+07	0.92 y	42:18	-	1.13
36 IS	13C-2,3,7,8-TCDD	100.00	1.37e+07	0.81 y	27:02	-	1.10
37 IS	13C-1,2,3,7,8-PeCDD	100.00	1.66e+07	0.63 y	31:31	-	1.34
38 IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.19e+07	1.25 y	34:51	-	0.73
39 IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.18e+07	1.26 y	34:58	-	0.73
40 IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.40e+07	1.24 y	35:16	-	0.86
41 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.08e+07	1.07 y	38:43	-	0.66
42 IS	13C-OCDD	200.00	2.58e+07	0.89 y	42:03	-	0.79
43 IS	13C-2,3,7,8-TCDF	100.00	2.07e+07	0.77 y	26:16	-	0.94
44 IS	13C-1,2,3,7,8-PeCDF	100.00	2.21e+07	1.61 y	30:21	-	1.01
45 IS	13C-2,3,4,7,8-PeCDF	100.00	2.23e+07	1.57 y	31:14	-	1.02
46 IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.64e+07	0.51 y	33:57	-	1.01
47 IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.82e+07	0.50 y	34:05	-	1.12
48 IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.69e+07	0.51 y	34:41	-	1.04
49 IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.41e+07	0.52 y	35:40	-	0.87
50 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.17e+07	0.45 y	37:31	-	0.72
51 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.20e+07	0.44 y	39:16	-	0.74
52 IS	13C-OCDF	200.00	2.87e+07	0.89 y	42:17	-	0.88
53 C/Up	37Cl-2,3,7,8-TCDD	40.00	6.31e+06		27:03	-	1.27
54 RS/RT	13C-1,2,3,4-TCDD	100.00	1.24e+07	0.82 y	26:28	-	1.00
55 RS	13C-1,2,3,4-TCDF	100.00	2.19e+07	0.79 y	25:03	-	1.00
56 RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.63e+07	0.51 y	34:22	-	1.00

Filename: 141016D1 S: 7 Acquired: 16-OCT-14 15:56:26
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-6 1613 CS5 14I1823

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	200.00	3.39e+07	0.77 y	27:03	- 1.20
2	Unk	1,2,3,7,8-PeCDD	1000.00	1.69e+08	0.62 y	31:32	- 0.95
3	Unk	1,2,3,4,7,8-HxCDD	1000.00	1.51e+08	1.26 y	34:52	- 1.12
4	Unk	1,2,3,6,7,8-HxCDD	1000.00	1.51e+08	1.26 y	34:59	- 1.12
5	Unk	1,2,3,7,8,9-HxCDD	1000.00	1.48e+08	1.26 y	35:17	- 0.94
6	Unk	1,2,3,4,6,7,8-HpCDD	1000.00	1.39e+08	1.04 y	38:43	- 1.17
7	Unk	OCDD	2000.00	2.98e+08	0.90 y	42:03	- 0.98
8	Unk	2,3,7,8-TCDF	200.00	4.44e+07	0.78 y	26:17	- 1.08
9	Unk	1,2,3,7,8-PeCDF	1000.00	2.73e+08	1.58 y	30:22	- 1.14
10	Unk	2,3,4,7,8-PeCDF	1000.00	2.66e+08	1.60 y	31:15	- 1.08
11	Unk	1,2,3,4,7,8-HxCDF	1000.00	2.60e+08	1.27 y	33:58	- 1.42
12	Unk	1,2,3,6,7,8-HxCDF	1000.00	2.64e+08	1.27 y	34:06	- 1.30
13	Unk	2,3,4,6,7,8-HxCDF	1000.00	2.48e+08	1.29 y	34:42	- 1.35
14	Unk	1,2,3,7,8,9-HxCDF	1000.00	1.95e+08	1.28 y	35:40	- 1.23
15	Unk	1,2,3,4,6,7,8-HpCDF	1000.00	2.17e+08	1.09 y	37:32	- 1.64
16	Unk	1,2,3,4,7,8,9-HpCDF	1000.00	2.10e+08	1.10 y	39:17	- 1.57
17	Unk	OCDF	2000.00	3.92e+08	0.91 y	42:17	- 1.14
36	IS	13C-2,3,7,8-TCDD	100.00	1.41e+07	0.77 y	27:02	- 1.18
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.78e+07	0.65 y	31:31	- 1.49
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.35e+07	1.26 y	34:51	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.34e+07	1.26 y	34:58	- 0.83
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.57e+07	1.27 y	35:15	- 0.97
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.19e+07	1.05 y	38:43	- 0.74
42	IS	13C-OCDD	200.00	3.03e+07	0.87 y	42:03	- 0.94
43	IS	13C-2,3,7,8-TCDF	100.00	2.06e+07	0.74 y	26:15	- 0.97
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.39e+07	1.59 y	30:21	- 1.12
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.46e+07	1.62 y	31:14	- 1.15
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.83e+07	0.52 y	33:57	- 1.13
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.03e+07	0.52 y	34:05	- 1.25
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.84e+07	0.51 y	34:41	- 1.13
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.59e+07	0.51 y	35:39	- 0.98
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.32e+07	0.43 y	37:31	- 0.82
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.34e+07	0.44 y	39:16	- 0.83
52	IS	13C-OCDF	200.00	3.45e+07	0.89 y	42:17	- 1.06
53	C/Up	37Cl-2,3,7,8-TCDD	200.00	3.41e+07		27:03	- 1.43
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.19e+07	0.82 y	26:28	- 1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.14e+07	0.76 y	25:03	- 1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.62e+07	0.52 y	34:22	- 1.00

Run: 141016D1

Analyte:

Cal: 1613VG7-10-16-14

Inst. ID. VG-7

Data filename: 141016D1

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
			RRT#1	RRT#2	RRT#3	RRT#4	RRT#5	RRT#6
2,3,7,8-TCDD	0.999	-1.002	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8-HxCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998	-1.004	1.001	1.000	1.000	1.000	1.000	1.000
1,2,3,7,8,9-HxCDD	0.998	-1.004	1.000	1.000	1.000	1.000	1.000	1.001
1,2,3,4,6,7,8-HpCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
2,3,7,8-TCDF	0.999	-1.003	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDF	0.999	-1.002	1.000	1.001	1.000	1.000	1.000	1.000
2,3,4,7,8-PeCDF	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.001
1,2,3,6,7,8-HxCDF	0.997	-1.005	1.001	1.000	1.001	1.001	1.001	1.000
2,3,4,6,7,8-HxCDF	0.999	-1.001	1.001	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.001	1.000	1.000
1,2,3,4,6,7,8-HpCDF	0.999	-1.001	1.000	1.001	1.000	1.000	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
13C-2,3,7,8-TCDD	0.976	-1.043	1.021	1.021	1.021	1.021	1.021	1.021
13C-1,2,3,7,8-PeCDD	1.000	-1.567	1.192	1.191	1.191	1.191	1.191	1.191
13C-1,2,3,4,7,8-HxCDD	1.002	-1.026	1.014	1.014	1.014	1.014	1.014	1.014
13C-1,2,3,6,7,8-HxCDD	1.007	-1.029	1.017	1.017	1.017	1.017	1.017	1.017
13C-1,2,3,7,8,9-HxCDD	1.014	-1.038	1.026	1.026	1.026	1.026	1.026	1.026
13C-1,2,3,4,6,7,8-HpCDD	1.117	-1.141	1.127	1.126	1.126	1.126	1.126	1.126
13C-OCDD	1.085	-1.365	1.224	1.223	1.223	1.223	1.223	1.223
13C-2,3,7,8-TCDF	0.923	-1.103	0.992	0.992	0.992	0.992	0.992	0.992
13C-1,2,3,7,8-PeCDF	1.000	-1.425	1.148	1.147	1.147	1.147	1.147	1.147
13C-2,3,4,7,8-PeCDF	1.011	-1.526	1.182	1.181	1.180	1.180	1.180	1.181
13C-1,2,3,4,7,8-HxCDF	0.975	-1.001	0.988	0.988	0.988	0.988	0.988	0.988
13C-1,2,3,6,7,8-HxCDF	0.979	-1.005	0.991	0.991	0.992	0.992	0.992	0.992
13C-2,3,4,6,7,8-HxCDF	1.001	-1.020	1.009	1.009	1.009	1.009	1.009	1.009
13C-1,2,3,7,8,9-HxCDF	1.002	-1.072	1.037	1.037	1.038	1.038	1.037	1.037
13C-1,2,3,4,6,7,8-HpCDF	1.069	-1.111	1.091	1.091	1.091	1.091	1.091	1.091
13C-1,2,3,4,7,8,9-HpCDF	1.098	-1.192	1.143	1.142	1.143	1.143	1.143	1.142
13C-OCDF	1.091	-1.371	1.230	1.230	1.230	1.230	1.230	1.230
37Cl-2,3,7,8-TCDD	0.989	-1.052	1.022	1.022	1.022	1.022	1.022	1.022
13C-1,2,3,4-TCDD	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4,6,9-HxCDF	0.000	-0.000	*	*	*	*	*	*

Filename: 141016D1 S: 1 Acquired: 16-OCT-14 11:05:57
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14
 Sample text: ST141016D1-1 1613 CS3 14I1102

Results:

Typ	Name	Amount	Resp	RA	RT	RF	RRF
18 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.11
19 Tot	TCDD EMPC	0.00	-	- n	-	-	1.11
20 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.93
21 Tot	PeCDD EMPC	0.00	-	- n	-	-	0.93
22 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.02
23 Tot	HxCDD EMPC	0.00	-	- n	-	-	1.02
24 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.12
25 Tot	HpCDD EMPC	0.00	-	- n	-	-	1.12
26 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.00
27 Tot	TCDF EMPC	0.00	-	- n	-	-	1.00
28 Tot	1st Func. Penta-Furans	0.00	-	- n	-	-	1.07
29 Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.07
30 Tot	Total Penta-Furans	0.00	-	- n	-	-	1.07
31 Tot	PeCDF EMPC	0.00	-	- n	-	-	1.07
32 Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.28
33 Tot	HxCDF EMPC	0.00	-	- n	-	-	1.28
34 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.57
35 Tot	HpCDF EMPC	0.00	-	- n	-	-	1.57

Filename: 141016D1 S: 3 Acquired: 16-OCT-14 12:42:43
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14
Sample text: ST141016D1-2 1613 CS0 14I1819

Results:

Typ	Name	Amount	Resp	RA	RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	1.36
19	Tot	TCDD EMPC	0.00	-	- n	-	1.36
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	0.94
21	Tot	PeCDD EMPC	0.00	-	- n	-	0.94
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	1.07
23	Tot	HxCDD EMPC	0.00	-	- n	-	1.07
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	1.04
25	Tot	HpCDD EMPC	0.00	-	- n	-	1.04
26	Tot	Total Tetra-Furans	0.00	-	- n	-	1.16
27	Tot	TCDF EMPC	0.00	-	- n	-	1.16
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	1.08
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	1.08
30	Tot	Total Penta-Furans	0.00	-	- n	-	1.08
31	Tot	PeCDF EMPC	0.00	-	- n	-	1.08
32	Tot	Total Hexa-Furans	0.00	-	- n	-	1.33
33	Tot	HxCDF EMPC	0.00	-	- n	-	1.33
34	Tot	Total Hepta-Furans	0.00	-	- n	-	1.62
35	Tot	HpCDF EMPC	0.00	-	- n	-	1.62

Filename: 141016D1 S: 4 Acquired: 16-OCT-14 13:31:08
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-3 1613 CS1 14I1820

Typ	Name	Amount	Resp	RA	RT	RF	RRF
18	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.22
19	Tot TCDD EMPC	0.00	-	- n	-	-	1.22
20	Tot Total Penta-Dioxins	0.00	-	- n	-	-	0.93
21	Tot PeCDD EMPC	0.00	-	- n	-	-	0.93
22	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.03
23	Tot HxCDD EMPC	0.00	-	- n	-	-	1.03
24	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.14
25	Tot HpCDD EMPC	0.00	-	- n	-	-	1.14
26	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.15
27	Tot TCDF EMPC	0.00	-	- n	-	-	1.15
28	Tot 1st Func. Penta-Furans	0.00	-	- n	-	-	1.05
29	Tot 1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.05
30	Tot Total Penta-Furans	0.00	-	- n	-	-	1.05
31	Tot PeCDF EMPC	0.00	-	- n	-	-	1.05
32	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.30
33	Tot HxCDF EMPC	0.00	-	- n	-	-	1.30
34	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.60
35	Tot HpCDF EMPC	0.00	-	- n	-	-	1.60

Filename: 141016D1 S: 5 Acquired: 16-OCT-14 14:19:34
Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
Sample text: ST141016D1-4 1613 CS2 14I1821

Typ	Name	Amount	Resp	RA	RT	RF	RRF
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	1.06
19	Tot	TCDD EMPC	0.00	-	- n	-	1.06
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	0.84
21	Tot	PeCDD EMPC	0.00	-	- n	-	0.84
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	0.94
23	Tot	HxCDD EMPC	0.00	-	- n	-	0.94
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	1.07
25	Tot	HpCDD EMPC	0.00	-	- n	-	1.07
26	Tot	Total Tetra-Furans	0.00	-	- n	-	0.99
27	Tot	TCDF EMPC	0.00	-	- n	-	0.99
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	0.98
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	0.98
30	Tot	Total Penta-Furans	0.00	-	- n	-	0.98
31	Tot	PeCDF EMPC	0.00	-	- n	-	0.98
32	Tot	Total Hexa-Furans	0.00	-	- n	-	1.19
33	Tot	HxCDF EMPC	0.00	-	- n	-	1.19
34	Tot	Total Hepta-Furans	0.00	-	- n	-	1.44
35	Tot	HpCDF EMPC	0.00	-	- n	-	1.44

Filename: 141016D1 S: 6 Acquired: 16-OCT-14 15:08:00
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14
 Sample text: ST141016D1-5 1613 CS4 14I1822

Results:

Typ	Name	Amount	Resp	RA	RT	RF	RRF
18	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.16
19	Tot TCDD EMPC	0.00	-	- n	-	-	1.16
20	Tot Total Penta-Dioxins	0.00	-	- n	-	-	0.93
21	Tot PeCDD EMPC	0.00	-	- n	-	-	0.93
22	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.04
23	Tot HxCDD EMPC	0.00	-	- n	-	-	1.04
24	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.14
25	Tot HpCDD EMPC	0.00	-	- n	-	-	1.14
26	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.08
27	Tot TCDF EMPC	0.00	-	- n	-	-	1.08
28	Tot 1st Func. Penta-Furans	0.00	-	- n	-	-	1.09
29	Tot 1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.09
30	Tot Total Penta-Furans	0.00	-	- n	-	-	1.09
31	Tot PeCDF EMPC	0.00	-	- n	-	-	1.09
32	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.31
33	Tot HxCDF EMPC	0.00	-	- n	-	-	1.31
34	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.59
35	Tot HpCDF EMPC	0.00	-	- n	-	-	1.59

Filename: 141016D1 S: 7 Acquired: 16-OCT-14 15:56:26
 Run: 141016D1 Analyte: Cal: 1613VG7-10-16-14 Results:
 Sample text: ST141016D1-6 1613 CS5 14I1823

Typ	Name	Amount	Resp	RA	RT	RF	RRF
18	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.20
19	Tot TCDD EMPC	0.00	-	- n	-	-	1.20
20	Tot Total Penta-Dioxins	0.00	-	- n	-	-	0.95
21	Tot PeCDD EMPC	0.00	-	- n	-	-	0.95
22	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.06
23	Tot HxCDD EMPC	0.00	-	- n	-	-	1.06
24	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.17
25	Tot HpCDD EMPC	0.00	-	- n	-	-	1.17
26	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.08
27	Tot TCDF EMPC	0.00	-	- n	-	-	1.08
28	Tot 1st Func. Penta-Furans	0.00	-	- n	-	-	1.11
29	Tot 1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.11
30	Tot Total Penta-Furans	0.00	-	- n	-	-	1.11
31	Tot PeCDF EMPC	0.00	-	- n	-	-	1.11
32	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.32
33	Tot HxCDF EMPC	0.00	-	- n	-	-	1.32
34	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.60
35	Tot HpCDF EMPC	0.00	-	- n	-	-	1.60

Run: 141016D1 Analyte: Cal: 1613VG7-10-16-η Inst. ID. VG-7

Data filename: 141016D1

Name	Mean RRF	%RSD	Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
			10	0.25	0.50	2.0	40	200
			RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
Total Tetra-Dioxins	1.18	8.84 %	1.11	1.36	1.22	1.06	1.16	1.20
TCDD EMPC	1.18	8.84 %	1.11	1.36	1.22	1.06	1.16	1.20
Total Penta-Dioxins	0.92	4.24 %	0.93	0.94	0.93	0.84	0.93	0.95
PeCDD EMPC	0.92	4.24 %	0.93	0.94	0.93	0.84	0.93	0.95
Total Hexa-Dioxins	1.02	4.51 %	1.02	1.07	1.03	0.94	1.04	1.06
HxCDD EMPC	1.02	4.51 %	1.02	1.07	1.03	0.94	1.04	1.06
Total Hepta-Dioxins	1.12	4.25 %	1.12	1.04	1.14	1.07	1.14	1.17
HpCDD EMPC	1.12	4.25 %	1.12	1.04	1.14	1.07	1.14	1.17
Total Tetra-Furans	1.08	6.64 %	1.00	1.16	1.15	0.99	1.08	1.08
TCDF EMPC	1.08	6.64 %	1.00	1.16	1.15	0.99	1.08	1.08
1st Func. Penta-Furans	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
1st Func. PeCDF EMPC	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
Total Penta-Furans	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
PeCDF EMPC	1.06	4.30 %	1.07	1.08	1.05	0.98	1.09	1.11
Total Hexa-Furans	1.29	3.86 %	1.28	1.33	1.30	1.19	1.31	1.32
HxCDF EMPC	1.29	3.86 %	1.28	1.33	1.30	1.19	1.31	1.32
Total Hepta-Furans	1.57	4.23 %	1.57	1.62	1.60	1.44	1.59	1.60
HpCDF EMPC	1.57	4.23 %	1.57	1.62	1.60	1.44	1.59	1.60

Vista Analytical Laboratory - Injection Log Run file: 141016D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141016D1	1	ST141016D1-1	MAS	16-OCT-14	11:05:57	ST141016D1-1	NA
141016D1	2	SOLVENT BLANK	MAS	16-OCT-14	11:54:17	ST141016D1-1	NA
141016D1	3	ST141016D1-2	MAS	16-OCT-14	12:42:43	ST141016D1-1	NA
141016D1	4	ST141016D1-3	MAS	16-OCT-14	13:31:08	ST141016D1-1	NA
141016D1	5	ST141016D1-4	MAS	16-OCT-14	14:19:34	ST141016D1-1	NA
141016D1	6	ST141016D1-5	MAS	16-OCT-14	15:08:00	ST141016D1-1	NA
141016D1	7	ST141016D1-6	MAS	16-OCT-14	15:56:26	ST141016D1-1	NA
141016D1	8	SOLVENT BLANK	MAS	16-OCT-14	16:44:52	ST141016D1-1	NA
141016D1	9	SS141016D1-1	MAS	16-OCT-14	17:33:17	ST141016D1-1	NA
141016D1	10	SOLVENT BLANK	MAS	16-OCT-14	18:21:38	ST141016D1-1	NA

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_CRV.qld

Last Altered: Friday, November 14, 2014 07:50:29 Pacific Standard Time
Printed: Friday, November 14, 2014 08:18:43 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53
Calibration: C:\MassLynx\Default.pro\Curvedb\ldb-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Compound name: 2,3,7,8-TCDF
Response Factor: 1.10023
RRF SD: 0.100726, Relative SD: 9.15499
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	1 141113F1_2	0.250	0.76	NO	17.52	2.58e3	9.20e5	0.255	1.12
2	2 141113F1_3	0.500	0.88	NO	17.54	5.25e3	1.05e6	0.455	1.00
3	3 141113F1_4	2.00	0.76	NO	17.52	2.24e4	1.16e6	1.76	0.968
4	4 141113F1_5	40.0	0.78	NO	17.52	5.36e5	1.16e6	41.8	1.15
5	5 141113F1_6	200	0.80	NO	17.52	3.07e6	1.24e6	226	1.24
6	6 141113F1_7	10.0	0.86	NO	17.55	1.30e5	1.16e6	10.2	1.12

CS 11/14/14
11/14/14

Compound name: 13C-2,3,7,8-TCDF
Response Factor: 0.843843
RRF SD: 0.0230178, Relative SD: 2.72774
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	1 141113F1_2	100	0.79	NO	17.51	9.20e5	1.11e6	98.2	0.829
2	2 141113F1_3	100	0.79	NO	17.51	1.05e6	1.28e6	97.4	0.822
3	3 141113F1_4	100	0.79	NO	17.51	1.16e6	1.37e6	99.6	0.840
4	4 141113F1_5	100	0.80	NO	17.51	1.16e6	1.31e6	105	0.885
5	5 141113F1_6	100	0.81	NO	17.51	1.24e6	1.45e6	101	0.853
6	6 141113F1_7	100	0.81	NO	17.52	1.16e6	1.39e6	98.8	0.833

Vista Analytical Laboratory VG-9

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_CRV.qld

Last Altered: Friday, November 14, 2014 07:50:29 Pacific Standard Time

Printed: Friday, November 14, 2014 08:18:43 Pacific Standard 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	1 141113F1_2	100	0.81	NO	15.25	1.11e6	1.11e6	100	1.00
2	2 141113F1_3	100	0.81	NO	15.23	1.28e6	1.28e6	100	1.00
3	3 141113F1_4	100	0.80	NO	15.23	1.37e6	1.37e6	100	1.00
4	4 141113F1_5	100	0.80	NO	15.23	1.31e6	1.31e6	100	1.00
5	5 141113F1_6	100	0.82	NO	15.23	1.45e6	1.45e6	100	1.00
6	6 141113F1_7	100	0.81	NO	15.25	1.39e6	1.39e6	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	1 141113F1_2	0.000	0.80	NO	16.00	7.79e5			0.000
2	2 141113F1_3	0.000	0.78	NO	16.00	9.07e5			0.000
3	3 141113F1_4	0.000	0.80	NO	16.00	9.36e5			0.000
4	4 141113F1_5	0.000	0.80	NO	16.00	9.46e5			0.000
5	5 141113F1_6	0.000	0.79	NO	16.00	1.03e6			0.000
6	6 141113F1_7	0.000	0.79	NO	16.00	9.83e5			0.000

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_CRV.qld

Last Altered: Friday, November 14, 2014 07:50:29 Pacific Standard Time

Printed: Friday, November 14, 2014 08:16:25 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53

Calibration: C:\MassLynx\Default.pro\Curvedb\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141113F1_7, Date: 13-Nov-2014, Time: 17:16:30, ID: ST141113F1-6 1613 CS3 1411102, Description: 1613 CS3 1411102

#	Name	Resp	RA	n/y	RRF M...	wi/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.30e5	0.86	NO	1.10	1.000	17.55	10.185	102	0.217
2	2 13C-2,3,7,8-TCDF	1.16e6	0.81	NO	0.844	1.000	17.52	98.766	98.8	0.302
3	3 13C-1,2,3,4-TCDF	1.39e6	0.81	NO	1.00	1.000	15.25	100.00	100	0.255
4	4 13C-1,2,3,4-TCDD	9.83e5	0.79	NO		1.000	16.00			

CS 11/14/14

Dataset: Untitled

Last Altered: Friday, November 14, 2014 07:58:55 Pacific Standard Time

Printed: Friday, November 14, 2014 08:07:25 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\11-13-TEST.cdb 14 Nov 2014 07:50:26

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	141113F1_1	CP141113F1-1 DB-225 CPSM	13-Nov-14	14:06:21
2	141113F1_2	ST141113F1-1 1613 CS0 14I1819	13-Nov-14	14:37:32
3	141113F1_3	ST141113F1-2 1613 CS1 14I1820	13-Nov-14	15:09:19
4	141113F1_4	ST141113F1-3 1613 CS2 14I1821	13-Nov-14	15:41:06
5	141113F1_5	ST141113F1-4 1613 CS4 14I1822	13-Nov-14	16:12:54
6	141113F1_6	ST141113F1-5 1613 CS5 14I1823	13-Nov-14	16:44:42
7	141113F1_7	ST141113F1-6 1613 CS3 14I1102	13-Nov-14	17:16:30
8	141113F1_8	SOLVENT BLANK	13-Nov-14	17:48:17
9	141113F1_9	SS141113F1-1 1613 SSS 13J3107	13-Nov-14	18:20:05
10	141113F1_10	SOLVENT BLANK	13-Nov-14	18:53:47
11	141113F1_11	1400819-01RE1 DP-1 CF 0.93853	13-Nov-14	19:23:48
12	141113F1_12	1400819-02RE1 RP-4 CF 0.95774	13-Nov-14	19:55:36
13	141113F1_13	1400824-02RE1 Secondary Sludge CF 19.78	13-Nov-14	20:27:24
14	141113F1_14	1400785-01RE1 DU1SU2 CF 29.92	13-Nov-14	20:59:12
15	141113F1_15	1400785-02RE1 DU1SU4 CF 31.78	13-Nov-14	21:31:00
16	141113F1_16	1400789-01RE1 DU1SU5 CF 33.89	13-Nov-14	22:02:48
17	141113F1_17	1400789-02RE1 DU2SU17 CF 30.06	13-Nov-14	22:34:35
18	141113F1_18	1400789-03RE1 DU2SU9 CF 29.99	13-Nov-14	23:06:23
19	141113F1_19	1400789-04RE1 DU2SU10 CF 30.04	13-Nov-14	23:38:10
20	141113F1_20	SOLVENT BLANK	14-Nov-14	00:09:58
21	141113F1_21	1400798-01RE1 DU2SU19 CF 31.55	14-Nov-14	00:43:33
22	141113F1_22	1400798-02RE1 DU2SU28 CF 33.04	14-Nov-14	01:13:41
23	141113F1_23	1400798-03RE1 DU2SU36 CF 30.86	14-Nov-14	01:45:28
24	141113F1_24	1400798-04RE1 DU2SU30-1 CF 32.41	14-Nov-14	02:17:16
25	141113F1_25	1400798-05RE1 DU2SU30-2 CF 33.37	14-Nov-14	02:49:03
26	141113F1_26	1400798-06RE1 DU2SU30-3 CF 30.24	14-Nov-14	03:20:52
27	141113F1_27	SOLVENT BLANK	14-Nov-14	03:52:41
28	141113F1_28	SOLVENT BLANK	14-Nov-14	04:24:29
29	141113F1_29	SOLVENT BLANK	14-Nov-14	04:56:17

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_9.qld

Last Altered: Friday, November 14, 2014 08:14:45 Pacific Standard Time

Printed: Friday, November 14, 2014 08:22:47 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53

Calibration: C:\MassLynx\Default.pro\Curvedbldb-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141113F1_9, Date: 13-Nov-2014, Time: 18:20:05, ID: SS141113F1-1 1613 SSS 13J3107, Description: 1613 SSS 13J3107

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.48e5	0.81	NO	1.10	1.000	17.54	8.9493	89.5	0.0832
2	13C-2,3,7,8-TCDF	1.51e6	0.81	NO	0.844	1.000	17.52	109.62	110	0.171
3	13C-1,2,3,4-TCDF	1.63e6	0.81	NO	1.00	1.000	15.25	100.00	100	0.145
4	13C-1,2,3,4-TCDD	1.29e6	0.78	NO		1.000	16.00			

JS 11/14/14

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	1.62e+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	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	Tetra	η	13C-PCB-54	100.00	1.33e+08	0.80 y	27:59	-	0.77
193	Tetra	η	13C-PCB-52	100.00	1.13e+08	0.80 y	31:31	-	0.66
194	Tetra	η	13C-PCB-47	100.00	1.19e+08	0.80 y	32:01	-	0.70
195	Tetra	η	13C-PCB-70	100.00	1.56e+08	0.81 y	35:31	-	0.91
196	Tetra	η	13C-PCB-80	100.00	1.58e+08	0.80 y	35:56	-	0.92
197	Tetra	η	13C-PCB-81	100.00	1.47e+08	0.81 y	39:03	-	0.86
198	Tetra	η	13C-PCB-77	100.00	1.56e+08	0.81 y	39:38	-	0.91
199	Pent	η	13C-PCB-104	100.00	9.67e+07	1.59 y	32:40	-	0.90
200	Pent	η	13C-PCB-95	100.00	7.69e+07	1.59 y	35:49	-	0.72
201	Pent	η	13C-PCB-101	100.00	8.24e+07	1.61 y	37:30	-	0.77
202	Pent	η	13C-PCB-97	100.00	7.23e+07	1.63 y	38:48	-	0.67
203	Pent	η	13C-PCB-123	100.00	1.04e+08	1.60 y	41:22	-	0.97
204	Pent	η	13C-PCB-118	100.00	1.07e+08	1.61 y	41:33	-	0.99
205	Pent	η	13C-PCB-114	100.00	1.19e+08	1.61 y	42:12	-	1.15
206	Pent	η	13C-PCB-105	100.00	1.23e+08	1.59 y	43:04	-	1.19
207	Pent	η	13C-PCB-127	100.00	1.34e+08	1.58 y	43:23	-	1.30
208	Pent	η	13C-PCB-126	100.00	1.17e+08	1.57 y	45:18	-	1.14
209	Hexa	η	13C-PCB-155	100.00	8.39e+07	1.28 y	37:03	-	0.78
210	Hexa	η	13C-PCB-153	100.00	1.09e+08	1.28 y	43:13	-	1.06
211	Hexa	η	13C-PCB-141	100.00	1.04e+08	1.29 y	43:57	-	1.01
212	Hexa		13C-PCB-138	100.00	1.04e+08	1.28 y	44:48	-	1.01
213	Hexa	η	13C-PCB-159	100.00	1.22e+08	1.26 y	46:04	-	1.19
214	Hexa	η	13C-PCB-167	100.00	1.35e+08	1.27 y	46:45	-	1.31
215	Hexa	η	13C-PCB-156	100.00	1.28e+08	1.27 y	48:03	-	1.24
216	Hexa	η	13C-PCB-157	100.00	1.33e+08	1.28 y	48:19	-	1.29
217	Hexa	η	13C-PCB-169	100.00	1.24e+08	1.28 y	50:23	-	1.20
218	Hept	η	13C-PCB-188	100.00	9.09e+07	0.46 y	42:51	-	0.88
219	Hept	η	13C-PCB-180	100.00	6.73e+07	0.47 y	49:20	-	0.65
220	Hept	η	13C-PCB-170	100.00	5.38e+07	0.46 y	50:44	-	0.52
221	Hept	η	13C-PCB-189	100.00	7.24e+07	0.47 y	52:11	-	0.70
222	Octa	η	13C-PCB-202	100.00	8.28e+07	0.92 y	48:16	-	0.80

223	Octaη	13C-PCB-194	100.00	7.14e+07	0.92 y	53:39	-	0.79
224	Nonaη	13C-PCB-208	100.00	9.82e+07	0.76 y	52:56	-	1.09
225	Nonaη	13C-PCB-206	100.00	5.84e+07	0.80 y	55:19	-	0.65
226	Decaη	13C-PCB-209	100.00	5.63e+07	1.21 y	56:35	-	0.62
227	DI-RS	13C-PCB-15	100.00	1.97e+08	1.56 y	25:59	-	1.00
228	Tri-η	13C-PCB-31	100.00	1.69e+08	1.06 y	28:60	-	1.00
229	Tetraη	13C-PCB-60	100.00	1.71e+08	0.80 y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	1.07e+08	1.60 y	39:13	-	1.00
231	Hexaη	13C-PCB-128	100.00	1.03e+08	1.28 y	46:21	-	1.00
232	Octaη	13C-PCB-205	100.00	9.02e+07	0.91 y	53:56	-	1.00

233	CRS	13C-PCB-79	100.00	1.75e+08	0.80 y	37:49	-	1.02
234	CRS	13C-PCB-178	100.00	6.43e+07	0.47 y	45:38	-	0.62
235	PS	13C-PCB-79	100.00	1.75e+08	0.80 y	37:49	-	1.19
236	PS	13C-PCB-178	100.00	6.43e+07	0.47 y	45:38	-	0.96

Lab Name: Vista Analytical Laboratory Lab ID: ST140620E1-4 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140620E1 S#4 Analysis Date: 20-JUN-14 Time: 12:43:46

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.96	2.66-3.60	y	52.3	37.5-62.5	PCB-52/69	0.77	0.65-0.89	y	105.4	75.0-125
PCB-2	2.98	2.66-3.60	y	52.3	37.5-62.5	PCB-73	0.77	0.65-0.89	y	52.2	37.5-62.5
PCB-3	2.98	2.66-3.60	y	51.7	37.5-62.5	PCB-43/49	0.77	0.65-0.89	y	101.6	75.0-125
PCB-4/10	1.64	1.33-1.79	y	206.7	150-250	PCB-47	0.76	0.65-0.89	y	53.7	37.5-62.5
PCB-7/9	1.64	1.33-1.79	y	204.6	150-250	PCB-48/75	0.77	0.65-0.89	y	99.8	75.0-125
PCB-6	1.64	1.33-1.79	y	99.9	75.0-125	PCB-65	0.77	0.65-0.89	y	49.4	37.5-62.5
PCB-5/8	1.64	1.33-1.79	y	206.9	150-250	PCB-62	0.77	0.65-0.89	y	53.4	37.5-62.5
PCB-14	1.65	1.33-1.79	y	102.3	75.0-125	PCB-44	0.78	0.65-0.89	y	51.3	37.5-62.5
PCB-11	1.66	1.33-1.79	y	101.6	75.0-125	PCB-42/59	0.77	0.65-0.89	y	103.4	75.0-125
PCB-12/13	1.63	1.33-1.79	y	205.7	150-250	PCB-41/64/71/72	0.78	0.65-0.89	y	205.8	150-250
PCB-15	1.66	1.33-1.79	y	101.1	75.0-125	PCB-68	0.78	0.65-0.89	y	50.9	37.5-62.5
PCB-19	1.05	0.88-1.20	y	49.4	37.5-62.5	PCB-40	0.77	0.65-0.89	y	50.7	37.5-62.5
PCB-30	1.06	0.88-1.20	y	51.2	37.5-62.5	PCB-57	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-18	1.05	0.88-1.20	y	50.4	37.5-62.5	PCB-67	0.77	0.65-0.89	y	53.3	37.5-62.5
PCB-17	1.05	0.88-1.20	y	51.0	37.5-62.5	PCB-58	0.78	0.65-0.89	y	49.3	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	103.5	75.0-125	PCB-63	0.76	0.65-0.89	y	51.7	37.5-62.5
PCB-16/32	1.05	0.88-1.20	y	100.5	75.0-125	PCB-74	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-34	1.08	0.88-1.20	y	57.4	37.5-62.5	PCB-61/70	0.78	0.65-0.89	y	101.8	75.0-125
PCB-23	1.11	0.88-1.20	y	46.4	37.5-62.5	PCB-76/66	0.77	0.65-0.89	y	103.1	75.0-125
PCB-29	1.09	0.88-1.20	y	51.1	37.5-62.5	PCB-80	0.78	0.65-0.89	y	50.2	37.5-62.5
PCB-26	1.08	0.88-1.20	y	50.7	37.5-62.5	PCB-55	0.77	0.65-0.89	y	51.5	37.5-62.5
PCB-25	1.09	0.88-1.20	y	51.5	37.5-62.5	PCB-56/60	0.77	0.65-0.89	y	100.3	75.0-125
PCB-31	1.08	0.88-1.20	y	49.7	37.5-62.5	PCB-79	0.78	0.65-0.89	y	51.2	37.5-62.5
PCB-28	1.11	0.88-1.20	y	52.5	37.5-62.5	PCB-78	0.78	0.65-0.89	y	51.1	37.5-62.5
PCB-20/21/33	1.09	0.88-1.20	y	152.7	112.5-225	PCB-81	0.78	0.65-0.89	y	50.9	37.5-62.5
PCB-22	1.08	0.88-1.20	y	52.6	37.5-62.5	PCB-77	0.79	0.65-0.89	y	52.0	37.5-62.5
PCB-36	1.09	0.88-1.20	y	52.3	37.5-62.5	PCB-104	1.61	1.32-1.78	y	50.4	37.5-62.5
PCB-39	1.08	0.88-1.20	y	51.7	37.5-62.5	PCB-96	1.59	1.32-1.78	y	50.5	37.5-62.5
PCB-38	1.10	0.88-1.20	y	52.4	37.5-62.5	PCB-103	1.58	1.32-1.78	y	50.8	37.5-62.5
PCB-35	1.11	0.88-1.20	y	52.7	37.5-62.5	PCB-100	1.61	1.32-1.78	y	50.5	37.5-62.5
PCB-37	1.09	0.88-1.20	y	51.2	37.5-62.5	PCB-94	1.58	1.32-1.78	y	50.8	37.5-62.5
PCB-54	0.76	0.65-0.89	y	51.7	37.5-62.5	PCB-95/98/102	1.60	1.32-1.78	y	160.1	112.5-225
PCB-50	0.77	0.65-0.89	y	51.4	37.5-62.5	PCB-93	1.63	1.32-1.78	y	42.1	37.5-62.5
PCB-53	0.78	0.65-0.89	y	50.2	37.5-62.5	PCB-88/91	1.59	1.32-1.78	y	114.0	75.0-125
PCB-51	0.78	0.65-0.89	y	53.2	37.5-62.5	PCB-121	1.59	1.32-1.78	y	43.7	37.5-62.5
PCB-45	0.78	0.65-0.89	y	52.8	37.5-62.5						
PCB-46	0.76	0.65-0.89	y	50.1	37.5-62.5						

Analyst: *DMS*Date: *6/23/14*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140620E1-4 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140620E1 S#4 Analysis Date: 20-JUN-14 Time: 12:43:46

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.59	1.32-1.78	y	103.4	75.0-125	PCB-140	1.28	1.05-1.43	y	54.6	37.5-62.5
PCB-89	1.61	1.32-1.78	y	53.1	37.5-62.5	PCB-134/143	1.24	1.05-1.43	y	102.9	75.0-125
PCB-90/101	1.60	1.32-1.78	y	102.1	75.0-125	PCB-133/142	1.23	1.05-1.43	y	102.0	75.0-125
PCB-113	1.58	1.32-1.78	y	56.1	37.5-62.5	PCB-131	1.22	1.05-1.43	y	49.4	37.5-62.5
PCB-99	1.64	1.32-1.78	y	46.1	37.5-62.5	PCB-146/165	1.24	1.05-1.43	y	100.9	75.0-125
PCB-119	1.61	1.32-1.78	y	50.3	37.5-62.5	PCB-132/161	1.22	1.05-1.43	y	102.0	75.0-125
PCB-108/112	1.63	1.32-1.78	y	103.0	75.0-125	PCB-153	1.22	1.05-1.43	y	50.2	37.5-62.5
PCB-83	1.62	1.32-1.78	y	52.1	37.5-62.5	PCB-168	1.21	1.05-1.43	y	50.2	37.5-62.5
PCB-97	1.60	1.32-1.78	y	52.6	37.5-62.5	PCB-141	1.21	1.05-1.43	y	50.4	37.5-62.5
PCB-86	1.58	1.32-1.78	y	48.0	37.5-62.5	PCB-137	1.24	1.05-1.43	y	48.3	37.5-62.5
PCB-87/117/125	1.60	1.32-1.78	y	154.2	112.5-225	PCB-130	1.26	1.05-1.43	y	54.3	37.5-62.5
PCB-111/115	1.68	1.32-1.78	y	102.0	75.0-125	PCB-138/163/164	1.23	1.05-1.43	y	154.4	112.5-225
PCB-85/116	1.48	1.32-1.78	y	101.9	75.0-125	PCB-158/160	1.23	1.05-1.43	y	104.2	75.0-125
PCB-120	1.57	1.32-1.78	y	49.2	37.5-62.5	PCB-129	1.25	1.05-1.43	y	50.6	37.5-62.5
PCB-110	1.61	1.32-1.78	y	51.1	37.5-62.5	PCB-166	1.22	1.05-1.43	y	51.1	37.5-62.5
PCB-82	1.59	1.32-1.78	y	49.3	37.5-62.5	PCB-159	1.23	1.05-1.43	y	52.7	37.5-62.5
PCB-124	1.60	1.32-1.78	y	49.9	37.5-62.5	PCB-128/162	1.22	1.05-1.43	y	104.6	75.0-125
PCB-107/109	1.59	1.32-1.78	y	101.7	75.0-125	PCB-167	1.21	1.05-1.43	y	51.6	37.5-62.5
PCB-123	1.59	1.32-1.78	y	52.4	37.5-62.5	PCB-156	1.22	1.05-1.43	y	49.4	37.5-62.5
PCB-106/118	1.62	1.32-1.78	y	104.7	75.0-125	PCB-157	1.22	1.05-1.43	y	51.2	37.5-62.5
PCB-114	1.64	1.32-1.78	y	50.7	37.5-62.5	PCB-169	1.22	1.05-1.43	y	49.9	37.5-62.5
PCB-122	1.64	1.32-1.78	y	51.0	37.5-62.5	PCB-188	1.02	0.89-1.21	y	50.8	37.5-62.5
PCB-105	1.62	1.32-1.78	y	51.4	37.5-62.5	PCB-184	1.04	0.89-1.21	y	51.3	37.5-62.5
PCB-127	1.64	1.32-1.78	y	51.1	37.5-62.5	PCB-179	1.04	0.89-1.21	y	50.2	37.5-62.5
PCB-126	1.62	1.32-1.78	y	51.1	37.5-62.5	PCB-176	1.04	0.89-1.21	y	50.5	37.5-62.5
PCB-155	1.27	1.05-1.43	y	52.7	37.5-62.5	PCB-186	1.04	0.89-1.21	y	51.2	37.5-62.5
PCB-150	1.28	1.05-1.43	y	51.9	37.5-62.5	PCB-178	1.04	0.89-1.21	y	50.8	37.5-62.5
PCB-152	1.27	1.05-1.43	y	51.1	37.5-62.5	PCB-175	1.04	0.89-1.21	y	52.7	37.5-62.5
PCB-145	1.26	1.05-1.43	y	50.6	37.5-62.5	PCB-182/187	1.04	0.89-1.21	y	104.2	75.0-125
PCB-136	1.27	1.05-1.43	y	52.1	37.5-62.5	PCB-183	1.04	0.89-1.21	y	50.9	37.5-62.5
PCB-148	1.30	1.05-1.43	y	51.3	37.5-62.5	PCB-185	1.04	0.89-1.21	y	50.3	37.5-62.5
PCB-154	1.25	1.05-1.43	y	52.4	37.5-62.5	PCB-174	1.03	0.89-1.21	y	49.1	37.5-62.5
PCB-151	1.30	1.05-1.43	y	52.9	37.5-62.5	PCB-181	1.06	0.89-1.21	y	52.4	37.5-62.5
PCB-135	1.28	1.05-1.43	y	51.8	37.5-62.5	PCB-177	1.05	0.89-1.21	y	51.2	37.5-62.5
PCB-144	1.36	1.05-1.43	y	55.0	37.5-62.5	PCB-171	1.04	0.89-1.21	y	49.7	37.5-62.5
PCB-147	1.18	1.05-1.43	y	52.9	37.5-62.5	PCB-173	1.05	0.89-1.21	y	49.7	37.5-62.5
PCB-139/149	1.27	1.05-1.43	y	107.6	75.0-125	PCB-172	1.02	0.89-1.21	y	49.8	37.5-62.5

Analyst: DMS

Date: 6/23/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140620E1-4 Instrument ID: VG-8

Initial Calibration Date: 6-20-14 ICal ID: PCBVG8-6-20-14 GC Column ID: ZB-1

VER Data Filename: 140620E1 S#4 Analysis Date: 20-JUN-14 Time: 12:43:46

ANALYTES	ION	QC	PASS	CONC	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(ng/mL)
PCB-192	1.05	0.89-1.21	y	50 5	37.5-62.5
PCB-180	1.04	0.89-1.21	y	49 1	37.5-62.5
PCB-193	1.05	0.89-1.21	y	50 4	37.5-62.5
PCB-191	1.06	0.89-1.21	y	50.0	37.5-62.5
PCB-170	1.03	0.89-1.21	y	49 6	37.5-62.5
PCB-190	1.02	0.89-1.21	y	50.5	37.5-62.5
PCB-189	1.04	0.89-1.21	y	51.7	37.5-62.5
PCB-202	0.91	0.76-1.02	y	50.0	37.5-62.5
PCB-201	0.93	0.76-1.02	y	50.4	37.5-62.5
PCB-204	0.88	0.76-1.02	y	52.0	37.5-62.5
PCB-197	0.91	0.76-1.02	y	52.0	37.5-62.5
PCB-200	0.91	0.76-1.02	y	52.4	37.5-62.5
PCB-198	0.90	0.76-1.02	y	51.5	37.5-62.5
PCB-199	0.89	0.76-1.02	y	52.5	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	104.9	75.0-125
PCB-195	0.90	0.76-1.02	y	51.9	37.5-62.5
PCB-194	0.90	0.76-1.02	y	49.9	37.5-62.5
PCB-205	0.91	0.76-1.02	y	49.6	37.5-62.5
PCB-208	1.33	1.14-1.54	y	49.5	37.5-62.5
PCB-207	1.32	1.14-1.54	y	50.8	37.5-62.5
PCB-206	1.33	1.14-1.54	y	49.7	37.5-62.5
PCB-209	1.19	0.99-1.33	y	52.5	37.5-62.5

Analyst: DMS

Date: 6/23/14

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140620E1-8

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	7.79e+07	2.96	y	1.25	16:15	1.001	0.996-1.006	52.3077	PCB-52/69	1.04e+08	0.77	y	1.28	31:33	1.001	0.996-1.006	105.426
PCB-2	7.75e+07	2.98	y	1.18	18:36	0.988	0.983-0.993	52.2846	PCB-73	5.51e+07	0.77	y	1.37	31:39	1.005	1.000-1.010	52.1810
PCB-3	7.90e+07	2.98	y	1.22	18:50	1.001	0.996-1.006	51.6788	PCB-43/49	8.70e+07	0.77	y	1.11	31:50	1.010	1.005-1.015	101.562
PCB-4/10	2.37e+08	1.64	y	1.55	20:12	1.003	0.998-1.008	206.748	PCB-47	4.93e+07	0.76	y	1.13	32:02	1.000	0.996-1.006	53.6979
PCB-7/9	2.89e+08	1.64	y	1.27	21:57	0.869	0.865-0.873	204.628	PCB-48/75	1.06e+08	0.77	y	1.30	32:09	1.004	0.999-1.009	99.7567
PCB-6	1.40e+08	1.64	y	1.26	22:36	0.894	0.890-0.899	99.9095	PCB-65	5.34e+07	0.77	y	1.33	32:25	1.012	1.007-1.017	49.3948
PCB-5/8	2.84e+08	1.64	y	1.23	23:01	0.911	0.906-0.916	206.862	PCB-62	5.60e+07	0.77	y	1.29	32:32	1.016	1.011-1.021	53.4188
PCB-14	1.57e+08	1.65	y	1.23	24:06	0.954	0.949-0.959	102.294	PCB-44	3.91e+07	0.78	y	0.94	32:50	1.025	1.020-1.030	51.2578
PCB-11	1.47e+08	1.66	y	1.16	25:17	1.000	0.996-1.006	101.627	PCB-42/59	1.02e+08	0.77	y	1.22	33:02	1.032	1.028-1.038	103.394
PCB-12/13	2.82e+08	1.63	y	1.10	25:41	1.016	1.010-1.020	205.694	PCB-41/64/71/72	2.19e+08	0.78	y	1.31	33:38	1.050	1.046-1.056	205.816
PCB-15	1.52e+08	1.66	y	1.21	26:00	1.029	1.024-1.034	101.148	PCB-68	6.14e+07	0.78	y	1.49	33:54	1.059	1.054-1.064	50.9457
PCB-19	4.60e+07	1.05	y	1.30	24:17	1.001	0.996-1.006	49.3886	PCB-40	3.37e+07	0.77	y	0.82	34:06	1.065	1.061-1.071	50.7163
PCB-30	6.73e+07	1.06	y	1.83	25:10	1.037	1.032-1.042	51.1589	PCB-57	5.90e+07	0.77	y	1.11	34:28	0.970	0.965-0.975	51.7966
PCB-18	4.72e+07	1.05	y	0.86	25:55	0.954	0.949-0.959	50.4475	PCB-67	5.86e+07	0.77	y	1.07	34:46	0.979	0.974-0.984	53.3170
PCB-17	5.00e+07	1.05	y	0.90	26:05	0.960	0.955-0.965	50.9703	PCB-58	5.56e+07	0.78	y	1.10	34:53	0.982	0.977-0.987	49.2975
PCB-24/27	1.33e+08	1.06	y	1.18	26:40	0.981	0.976-0.986	103.472	PCB-63	5.91e+07	0.76	y	1.12	35:03	0.987	0.982-0.992	51.7181
PCB-16/32	1.13e+08	1.05	y	1.03	27:10	1.000	0.995-1.005	100.505	PCB-74	6.38e+07	0.77	y	1.20	35:20	0.995	0.990-1.000	51.8367
PCB-34	7.74e+07	1.08	y	1.26	27:58	0.961	0.956-0.966	57.3995	PCB-61/70	1.12e+08	0.78	y	1.08	35:30	0.999	0.994-1.004	101.842
PCB-23	6.51e+07	1.11	y	1.31	28:04	0.964	0.959-0.969	46.4036	PCB-76/66	1.20e+08	0.77	y	1.14	35:43	1.005	1.001-1.011	103.088
PCB-29	7.26e+07	1.09	y	1.33	28:18	0.972	0.967-0.977	51.0903	PCB-80	6.74e+07	0.78	y	1.28	35:56	1.000	0.996-1.006	50.2410
PCB-26	7.01e+07	1.08	y	1.29	28:30	0.979	0.974-0.984	50.7150	PCB-55	6.01e+07	0.77	y	1.11	36:17	1.010	1.005-1.015	51.5207
PCB-25	7.40e+07	1.09	y	1.34	28:40	0.985	0.980-0.990	51.5314	PCB-56/60	1.15e+08	0.77	y	1.09	36:46	1.023	1.018-1.028	100.313
PCB-31	7.55e+07	1.08	y	1.42	29:02	0.997	0.992-1.002	49.7377	PCB-79	6.04e+07	0.78	y	1.12	37:50	1.053	1.048-1.058	51.1728
PCB-28	7.73e+07	1.11	y	1.38	29:07	1.000	0.996-1.006	52.4521	PCB-78	5.76e+07	0.78	y	1.24	38:32	0.987	0.982-0.992	51.0794
PCB-20/21/33	2.14e+08	1.09	y	1.31	29:45	1.022	1.017-1.027	152.731	PCB-81	6.41e+07	0.78	y	1.38	39:03	1.000	0.995-1.005	50.9258
PCB-22	7.44e+07	1.08	y	1.32	30:11	1.037	1.032-1.042	52.6344	PCB-77	6.12e+07	0.79	y	1.21	39:39	1.000	0.995-1.005	51.9669
PCB-36	7.16e+07	1.09	y	1.38	30:47	0.933	0.929-0.939	52.3141	PCB-104	4.41e+07	1.61	y	1.26	32:41	1.000	0.996-1.006	50.3835
PCB-39	7.29e+07	1.08	y	1.42	31:16	0.948	0.943-0.953	51.6606	PCB-96	3.84e+07	1.59	y	1.09	33:57	1.039	1.034-1.044	50.4976
PCB-38	7.06e+07	1.10	y	1.35	32:02	0.971	0.967-0.976	52.4183	PCB-103	3.30e+07	1.58	y	0.93	34:29	1.055	1.050-1.060	50.7622
PCB-35	7.21e+07	1.11	y	1.38	32:33	0.987	0.982-0.992	52.6668	PCB-100	3.52e+07	1.61	y	1.00	34:49	1.066	1.061-1.071	50.4670
PCB-37	7.08e+07	1.09	y	1.39	32:59	1.000	0.996-1.006	51.1869	PCB-94	2.91e+07	1.58	y	1.11	35:18	0.985	0.981-0.991	50.7908
PCB-54	5.75e+07	0.76	y	1.20	28:01	1.001	0.996-1.006	51.7229	PCB-84/92	5.90e+07	1.59	y	1.05	37:08	0.990	0.986-0.996	103.399
PCB-50	4.61e+07	0.77	y	0.97	29:11	1.042	1.037-1.047	51.4094	PCB-89	2.93e+07	1.61	y	1.02	37:19	0.995	0.991-1.001	53.0820
PCB-53	4.59e+07	0.78	y	1.19	29:49	0.946	0.941-0.951	50.2276									
PCB-51	4.72e+07	0.78	y	1.15	30:10	0.957	0.952-0.962	53.1558									
PCB-45	3.92e+07	0.78	y	0.97	30:35	0.971	0.966-0.976	52.7585									
PCB-46	3.67e+07	0.76	y	0.95	31:04	0.986	0.982-0.992	50.0611									

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations
by

Analyst: *DMS*

Date: *6/23/14*

Reviewed
by

Analyst: _____

Date: _____

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000 EndCAL: ST140620E1-8

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	6.59e+07	1.60	y	1.19	37:31	1.001	0.996-1.006	102.056	PCB-133/142	7.08e+07	1.23	y	0.95	42:26	0.982	0.977-0.987	102.037
PCB-113	4.11e+07	1.58	y	1.35	37:45	1.007	1.002-1.012	56.0520	PCB-131	3.32e+07	1.22	y	0.91	42:36	0.986	0.981-0.991	49.4221
PCB-99	3.22e+07	1.64	y	1.29	37:51	1.010	1.005-1.015	46.1415	PCB-146/165	8.56e+07	1.24	y	1.16	42:48	0.991	0.986-0.996	100.884
PCB-119	4.21e+07	1.61	y	1.72	38:18	0.987	0.982-0.992	50.2990	PCB-132/161	8.34e+07	1.22	y	1.11	43:03	0.996	0.992-1.002	102.031
PCB-108/112	6.45e+07	1.63	y	1.29	38:27	0.991	0.986-0.996	102.978	PCB-153	4.34e+07	1.22	y	1.18	43:14	1.001	0.995-1.005	50.1872
PCB-83	3.85e+07	1.62	y	1.52	38:38	0.996	0.991-1.001	52.0737	PCB-168	5.04e+07	1.21	y	1.37	43:27	1.006	1.000-1.010	50.1556
PCB-97	3.19e+07	1.60	y	1.25	38:49	1.000	0.996-1.006	52.5654	PCB-141	3.48e+07	1.21	y	0.97	43:58	1.001	0.996-1.005	50.4291
PCB-86	2.39e+07	1.58	y	1.02	38:58	1.004	1.000-1.010	48.0340	PCB-137	3.66e+07	1.24	y	1.07	44:21	1.009	1.004-1.014	48.2814
B-87/117/125	1.17e+08	1.60	y	1.56	39:05	1.007	1.002-1.012	154.194	PCB-130	3.25e+07	1.26	y	0.85	44:27	1.012	1.007-1.017	54.2556
PCB-111/115	8.69e+07	1.68	y	1.75	39:15	1.012	1.007-1.017	101.981	PCB-138/163/164	1.29e+08	1.23	y	1.23	44:50	1.001	0.996-1.006	154.435
PCB-85/116	6.45e+07	1.48	y	1.30	39:23	1.015	1.010-1.020	101.910	PCB-158/160	9.17e+07	1.23	y	1.29	45:05	1.007	1.001-1.011	104.238
PCB-120	4.26e+07	1.57	y	1.78	39:37	1.021	1.016-1.026	49.1740	PCB-129	3.19e+07	1.25	y	0.92	45:19	1.012	1.007-1.017	50.5660
PCB-110	4.18e+07	1.61	y	1.68	39:46	1.025	1.020-1.030	51.1450	PCB-166	4.45e+07	1.22	y	1.12	45:46	0.993	0.988-0.998	51.1070
PCB-82	2.58e+07	1.59	y	0.74	40:23	0.976	0.972-0.982	49.2945	PCB-159	4.79e+07	1.23	y	1.16	46:05	1.000	0.995-1.005	52.6640
PCB-124	4.68e+07	1.60	y	1.32	41:03	0.993	0.988-0.998	49.9220	PCB-128/162	8.32e+07	1.22	y	1.02	46:22	1.006	1.002-1.012	104.591
PCB-107/109	8.79e+07	1.59	y	1.22	41:12	0.996	0.991-1.001	101.669	PCB-167	4.69e+07	1.21	y	1.06	46:47	1.001	0.995-1.005	51.5594
PCB-123	4.52e+07	1.59	y	1.22	41:22	1.000	0.995-1.005	52.4448	PCB-156	4.73e+07	1.22	y	1.18	48:04	1.000	0.995-1.005	49.4312
PCB-106/118	9.37e+07	1.62	y	1.22	41:35	1.001	0.996-1.006	104.679	PCB-157	4.74e+07	1.22	y	1.08	48:20	1.000	0.995-1.005	51.2216
PCB-114	5.41e+07	1.64	y	1.36	42:13	1.000	0.995-1.005	50.6622	PCB-169	4.38e+07	1.22	y	1.11	50:24	1.000	0.995-1.005	49.8867
PCB-122	4.97e+07	1.64	y	1.24	42:21	1.004	0.999-1.009	50.9693									
PCB-105	5.28e+07	1.62	y	1.28	43:05	1.001	0.995-1.005	51.3611	PCB-188	4.41e+07	1.02	y	1.40	42:52	1.000	0.995-1.005	50.7803
PCB-127	5.04e+07	1.64	y	1.14	43:24	1.000	0.995-1.005	51.1125	PCB-184	3.92e+07	1.04	y	1.24	43:18	1.011	1.006-1.016	51.2869
PCB-126	4.91e+07	1.62	y	1.28	45:19	1.001	0.995-1.005	51.0683	PCB-179	4.05e+07	1.04	y	1.30	44:06	1.029	1.024-1.034	50.2126
									PCB-176	4.26e+07	1.04	y	1.36	44:34	1.040	1.035-1.045	50.5434
PCB-155	3.50e+07	1.27	y	1.14	37:04	1.001	0.966-1.006	52.6727	PCB-186	4.04e+07	1.04	y	1.28	45:10	1.054	1.049-1.059	51.1676
PCB-150	3.23e+07	1.28	y	1.06	38:20	1.035	1.030-1.040	51.8920	PCB-178	2.94e+07	1.04	y	0.94	45:39	1.066	1.061-1.071	50.8281
PCB-152	3.28e+07	1.27	y	1.10	38:49	1.048	1.043-1.053	51.0615	PCB-175	3.16e+07	1.04	y	0.97	46:00	1.074	1.069-1.079	52.7165
PCB-145	3.24e+07	1.26	y	1.09	39:15	1.060	1.055-1.065	50.6281	PCB-182/187	6.54e+07	1.04	y	1.01	46:11	1.078	1.073-1.083	104.234
PCB-136	3.31e+07	1.27	y	1.08	39:35	1.069	1.064-1.074	52.0720	PCB-183	3.41e+07	1.04	y	1.08	46:29	1.085	1.080-1.090	50.9232
PCB-148	2.22e+07	1.30	y	0.74	39:40	1.071	1.066-1.076	51.2670	PCB-185	3.03e+07	1.04	y	1.34	47:09	0.956	0.951-0.961	50.2993
PCB-154	2.71e+07	1.25	y	0.88	40:10	1.084	1.079-1.089	52.4052	PCB-174	2.95e+07	1.03	y	1.34	47:31	0.963	0.958-0.968	49.0649
PCB-151	2.51e+07	1.30	y	0.81	40:48	1.102	1.097-1.107	52.9183	PCB-181	3.20e+07	1.06	y	1.36	47:37	0.966	0.961-0.971	52.3684
PCB-135	2.36e+07	1.28	y	0.78	41:01	1.107	1.101-1.113	51.8361	PCB-177	2.85e+07	1.05	y	1.24	47:48	0.969	0.964-0.974	51.2147
PCB-144	2.64e+07	1.36	y	0.82	41:08	1.110	1.105-1.116	54.9912	PCB-171	2.93e+07	1.04	y	1.31	48:05	0.975	0.970-0.980	49.7433
PCB-147	2.56e+07	1.18	y	0.83	41:16	1.114	1.011-1.120	52.8823	PCB-173	2.59e+07	1.05	y	1.16	48:31	0.984	0.979-0.989	49.7232
PCB-139/149	5.32e+07	1.27	y	0.84	41:31	1.121	1.115-1.127	107.613	PCB-172	2.73e+07	1.02	y	1.22	48:57	0.993	0.988-0.998	49.7746
PCB-140	2.51e+07	1.28	y	0.79	41:43	1.126	1.120-1.132	54.6052	PCB-192	3.46e+07	1.05	y	1.53	49:09	0.996	0.991-1.001	50.4921
PCB-134/143	7.01e+07	1.24	y	0.93	42:08	0.975	0.970-0.980	102.949	PCB-180	3.15e+07	1.04	y	1.43	49:20	1.000	0.995-1.005	49.0865

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *DMS*

Date: *6/23/14*

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.0000
ConCal: ST140620E1-4
EndCAL: ST140620E1-8

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RT	RRF	Conc
PCB-193	3.74e+07	1.05 y	1.65	49:32	1.004	0.999-1.009		50.3769	Total Mono-PCB	2.34e+08	2.96 y	16:15	1.22	156.271
PCB-191	3.75e+07	1.06 y	1.67	49:47	1.009	1.004-1.014		49.9945	Total Di-PCB	1.69e+09	1.64 y	20:12	1.21	1228.91
PCB-170	2.66e+07	1.03 y	1.50	50:46	1.000	0.995-1.005		49.6074	Total Tri-PCB	4.56e+08	1.05 y	24:17	1.16	405.942
PCB-190	3.64e+07	1.02 y	2.02	50:55	1.003	0.998-1.008		50.4804	Total Tri-PCB	1.17e+09	1.08 y	27:58	1.35	834.371
PCB-189	3.90e+07	1.04 y	1.54	52:12	1.000	0.995-1.005		51.6684	Total Tetra-PCB	2.26e+09	0.76 y	28:01	1.17	2169.09
									Total Penta-PCB	1.49e+09	1.61 y	32:41	1.21	2099.97
PCB-202	2.92e+07	0.91 y	1.04	48:17	1.000	0.995-1.005		49.9695	Total Penta-PCB	2.69e+08	1.64 y	42:13	1.26	267.736
PCB-201	3.12e+07	0.93 y	1.10	48:46	1.011	1.006-1.016		50.3688	Total Hexa-PCB	3.94e+08	1.27 y	37:04	0.92	736.844
PCB-204	2.91e+07	0.88 y	0.99	48:56	1.014	1.009-1.019		52.0459	Total Hexa-PCB	1.17e+09	1.24 y	42:08	1.08	1448.04
PCB-197	3.14e+07	0.91 y	1.07	49:13	1.020	1.015-1.025		51.9828	Total Hepta-PCB	8.19e+08	1.02 y	42:52	1.27	1225.74
PCB-200	3.00e+07	0.91 y	1.02	50:03	1.037	1.032-1.044		52.4432	Total Octa-PCB	2.40e+08	0.91 y	48:17	0.92	465.773
PCB-198	2.15e+07	0.90 y	0.74	51:20	1.063	1.058-1.068		51.5297	Total Octa-PCB	9.28e+07	0.90 y	52:49	1.29	154.410
PCB-199	2.15e+07	0.89 y	0.73	51:25	1.065	1.060-1.070		52.5143	Total Nona-PCB	8.35e+07	1.33 y	52:57	0.96	149.999
- PCB-196/203	4.56e+07	0.90 y	0.77	51:41	1.071	1.066-1.076		104.918	Total Deca-PCB	2.28e+07	1.19 y	56:38	1.18	52.4674
- PCB-195	2.91e+07	0.90 y	1.20	52:49	0.984	0.979-0.989		51.8965						
PCB-194	2.91e+07	0.90 y	1.25	53:41	1.000	0.995-1.005		49.8808						
PCB-205	3.28e+07	0.91 y	1.41	53:58	1.006	1.001-1.011		49.5944						
														Total PCB Conc:11327.5526340
PCB-208	3.18e+07	1.33 y	0.96	52:57	1.000	0.995-1.005		49.4830						
PCB-207	3.10e+07	1.32 y	0.92	53:16	1.006	1.001-1.011		50.7809						
PCB-206	2.07e+07	1.33 y	1.03	55:21	1.000	0.995-1.005		49.7349						
PCB-209	2.28e+07	1.19 y	1.18	56:38	1.000	0.995-1.005		52.4674						

Integrations
by
Analyst: DMS
Date: 6/23/14
RL: MONO, TRI - DECA: _____

Client ID: PCB CS3 14F1901
Lab ID: ST140620E1-4

Filename: 140620E1 S:4 Acq:20-JUN-14 12:43:46
GC Column ID: ZB-1 ICal: PCBVG8-6-20-14 wt/vol: 1.000

ConCal: ST140620E1-4
EndCAL: ST140620E1-8

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.19e+08	3.24 y	0.89	16:14	0.625	0.622-0.628		98.9	98.9		13C-PCB-79	1.21e+08	0.80 y	1.01	37:49	1.028	1.023-1.033	109	109	
13C-PCB-3	1.25e+08	3.32 y	0.93	18:49	0.725	0.721-0.729		100	100		13C-PCB-178	4.58e+07	0.46 y	0.63	45:38	0.984	0.979-0.989	109	109	
13C-PCB-4	7.38e+07	1.60 y	0.55	20:09	0.776	0.772-0.780		99.9	99.9											
13C-PCB-9	1.11e+08	1.59 y	0.83	21:55	0.844	0.840-0.848		100.0	100.0											
13C-PCB-11	1.25e+08	1.58 y	0.94	25:16	0.973	0.968-0.978		98.6	98.6	PS vs. IS										
13C-PCB-19	7.19e+07	1.04 y	0.53	24:16	0.934	0.929-0.939		100	100		13C-PCB-79	1.21e+08	0.80 y	1.20	37:49	0.968	0.963-0.973	110	110	
13C-PCB-28	1.07e+08	1.05 y	0.89	29:07	1.004	0.999-1.009		96.1	96.1		13C-PCB-178	4.58e+07	0.46 y	0.94	45:38	0.925	0.920-0.930	109	109	
13C-PCB-32	1.09e+08	1.07 y	0.81	27:10	1.046	1.041-1.051		99.3	99.3											
13C-PCB-37	9.94e+07	1.06 y	0.83	32:59	1.137	1.131-1.143		95.3	95.3											
13C-PCB-47	8.11e+07	0.81 y	0.74	32:01	0.871	0.867-0.875		98.7	98.7											
13C-PCB-52	7.70e+07	0.79 y	0.71	31:30	0.857	0.853-0.861		98.5	98.5											
13C-PCB-54	9.29e+07	0.81 y	0.85	28:00	0.762	0.758-0.766		99.0	99.0											
13C-PCB-70	1.02e+08	0.79 y	0.94	35:31	0.966	0.961-0.971		98.1	98.1											
13C-PCB-77	9.74e+07	0.81 y	0.89	39:38	1.078	1.073-1.083		98.7	98.7											
13C-PCB-80	1.05e+08	0.80 y	0.96	35:56	0.977	0.972-0.982		99.0	99.0											
13C-PCB-81	9.10e+07	0.80 y	0.84	39:03	1.062	1.057-1.067		98.4	98.4											
13C-PCB-95	5.18e+07	1.63 y	0.74	35:49	0.913	0.908-0.918		98.4	98.4	RS										
13C-PCB-97	4.86e+07	1.60 y	0.69	38:48	0.989	0.984-0.994		99.7	99.7		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	5.42e+07	1.60 y	0.79	37:30	0.956	0.951-0.961		97.6	97.6		13C-PCB-15	1.35e+08	1.56 y	1.00	25:58	100				
13C-PCB-104	6.97e+07	1.58 y	1.00	32:40	0.833	0.829-0.837		99.0	99.0		13C-PCB-31	1.25e+08	1.07 y	1.00	29:00	100				
13C-PCB-105	8.01e+07	1.61 y	1.24	43:03	0.929	0.924-0.934		96.7	96.7		13C-PCB-60	1.10e+08	0.80 y	1.00	36:46	100				
13C-PCB-114	7.88e+07	1.61 y	1.21	42:12	0.910	0.905-0.915		97.6	97.6		13C-PCB-111	7.08e+07	1.59 y	1.00	39:14	100				
13C-PCB-118	7.31e+07	1.59 y	0.98	41:32	1.059	1.054-1.064		105	105		13C-PCB-128	6.69e+07	1.27 y	1.00	46:21	100				
13C-PCB-123	7.08e+07	1.58 y	0.95	41:21	1.054	1.049-1.059		105	105		13C-PCB-205	5.82e+07	0.91 y	1.00	53:57	100				
13C-PCB-126	7.48e+07	1.61 y	1.16	45:18	0.977	0.972-0.982		96.2	96.2											
13C-PCB-127	8.64e+07	1.59 y	1.34	43:23	0.936	0.931-0.941		96.3	96.3											
13C-PCB-138	6.82e+07	1.26 y	1.04	44:48	0.966	0.961-0.971		97.7	97.7											
13C-PCB-141	7.08e+07	1.28 y	1.07	43:57	0.948	0.943-0.953		98.8	98.8											
13C-PCB-153	7.34e+07	1.25 y	1.11	43:13	0.932	0.927-0.937		98.6	98.6											
13C-PCB-155	5.85e+07	1.27 y	0.83	37:02	0.944	0.939-0.949		99.4	99.4											
13C-PCB-156	8.09e+07	1.27 y	1.24	48:03	1.037	1.032-1.042		97.2	97.2											
13C-PCB-157	8.55e+07	1.28 y	1.31	48:19	1.042	1.037-1.047		97.5	97.5											
13C-PCB-159	7.80e+07	1.30 y	1.20	46:05	0.994	0.989-0.999		97.3	97.3											
13C-PCB-167	8.57e+07	1.25 y	1.32	46:45	1.009	1.004-1.014		97.0	97.0											
13C-PCB-169	7.92e+07	1.27 y	1.22	50:24	1.087	1.082-1.092		97.5	97.5											
13C-PCB-170	3.58e+07	0.46 y	0.54	50:45	1.095	1.089-1.101		99.9	99.9											
13C-PCB-180	4.49e+07	0.47 y	0.67	49:19	1.064	1.059-1.069		99.6	99.6											
13C-PCB-188	6.18e+07	0.46 y	0.94	42:51	0.924	0.919-0.929		98.8	98.8											
13C-PCB-189	4.90e+07	0.46 y	0.72	52:11	1.126	1.120-1.132		102	102											
13C-PCB-194	4.68e+07	0.91 y	0.81	53:40	0.995	0.990-1.000		99.2	99.2											
13C-PCB-202	5.62e+07	0.92 y	0.83	48:16	1.041	1.036-1.046		101	101											
13C-PCB-206	4.05e+07	0.78 y	0.66	55:20	1.026	1.021-1.031		106	106											
13C-PCB-208	6.67e+07	0.78 y	1.12	52:56	0.981	0.976-0.986		102	102											
13C-PCB-209	3.70e+07	1.21 y	0.61	56:37	1.049	1.044-1.054		103	103											

Analyst: *DMS*

Date: *6/23/14*

Vista Analytical Laboratory - Injection Log Run file: 140620E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140620E1	1	ST140620E1-1	DMS	20-JUN-14	09:31:44	NA	NA
140620E1	2	ST140620E1-2	DMS	20-JUN-14	10:35:42	NA	NA
140620E1	3	ST140620E1-3	DMS	20-JUN-14	11:39:47	NA	NA
140620E1	4	ST140620E1-4	DMS	20-JUN-14	12:43:46	ST140620E1-4	ST140620E1-8
140620E1	5	ST140620E1-5	DMS	20-JUN-14	13:47:50	NA	NA
140620E1	6	ST140620E1-6	DMS	20-JUN-14	14:51:49	NA	NA
140620E1	8	ST140620E1-7	DMS	20-JUN-14	15:57:15	NA	NA
140620E1	9	B4F0047-BS1	DMS	20-JUN-14	17:01:12	ST140620E1-4	ST140620E1-8
140620E1	10	SOLVENT BLANK	DMS	20-JUN-14	18:05:10	NA	NA
140620E1	11	B4F0047-BLK1	DMS	20-JUN-14	19:09:06	ST140620E1-4	ST140620E1-8
140620E1	12	1400406-01	DMS	20-JUN-14	20:13:09	ST140620E1-4	ST140620E1-8
140620E1	13	1400434-01	DMS	20-JUN-14	21:17:10	ST140620E1-4	NA
140620E1	14	1400434-02	DMS	20-JUN-14	22:21:13	ST140620E1-4	NA
140620E1	15	1400434-03	DMS	20-JUN-14	23:25:09	ST140620E1-4	NA
140620E1	16	SOLVENT BLANK	DMS	21-JUN-14	00:29:07	ST140620E1-4	NA
140620E1	17	ST140620E1-8	DMS	21-JUN-14	01:33:10	ST140620E1-4	ST140620E1-8

March 30, 2015

Vista Project I.D.: 1400948

Ms. Christine Nancarrow
Leidos
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Dear Ms. Nancarrow,

Enclosed are the additional results for the sample set received at Vista Analytical Laboratory on December 12, 2014. This sample set was analyzed on a standard turn-around time.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 1400948

Case Narrative

Sample Condition on Receipt:

One effluent sample and three sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The sediment samples were originally archived; they were authorized for analysis on March 9, 2015.

Analytical Notes:

EPA Method 1668C

The sediment 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 the 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
1400948-01	SC-OWS-05-20141211-S	11-Dec-14 10:10	12-Dec-14 08:53	Amber Glass, 250mL
1400948-02	SC-CB-35-20141211-S	11-Dec-14 13:00	12-Dec-14 08:53	Amber Glass, 250mL
1400948-03	SC-CB-24-20141211-S	11-Dec-14 14:00	12-Dec-14 08:53	Amber Glass, 250mL
1400948-04	SC-MH-20-20141211-S	11-Dec-14 15:00	12-Dec-14 08:53	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1668C

Matrix: Solid	QC Batch: B5C0059	Lab Sample: B5C0059-BLK1
Sample Size: 2.00 g	Date Extracted: 12-Mar-2015 12:37	Date Analyzed: 18-Mar-15 13:13 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	2.50	10.8		0.320		PCB-43/49	ND	5.00	4.49		0.879	
PCB-2	ND	2.50	8.86		0.240		PCB-44	ND	2.50	4.98		0.745	
PCB-3	ND	2.50	7.36		0.323		PCB-45	ND	2.50	5.17		0.402	
PCB-4/10	ND	5.00	34.6		1.14		PCB-46	ND	2.50	5.29		0.537	
PCB-5/8	ND	5.00	27.8		1.76		PCB-47	ND	2.50	4.05		2.19	
PCB-6	ND	2.50	24.5		1.00		PCB-48/75	ND	5.00	3.49		0.983	
PCB-7/9	ND	5.00	26.4		1.34		PCB-50	ND	2.50	4.67		0.603	
PCB-11	ND	2.50	26.3		3.48		PCB-51	ND	2.50	4.51		0.789	
PCB-12/13	ND	5.00	24.0		1.37		PCB-52/69	ND	5.00	3.49		0.722	
PCB-14	ND	2.50	25.8		0.337		PCB-53	ND	2.50	4.20		0.331	
PCB-15	ND	2.50	22.3		0.634		PCB-54	ND	2.50	3.73		0.275	
PCB-16/32	ND	5.00	3.98		0.430		PCB-55	ND	2.50	3.07		0.416	
PCB-17	ND	2.50	4.06		0.658		PCB-56/60	ND	5.00	3.17		0.825	
PCB-18	ND	2.50	4.79		0.696		PCB-57	ND	2.50	3.45		0.354	
PCB-19	ND	2.50	5.52		0.612		PCB-58	ND	2.50	3.64		0.589	
PCB-20/21/33	ND	7.50	3.54		2.47		PCB-61/70	ND	5.00	3.54		1.20	
PCB-22	ND	2.50	3.17		0.964		PCB-62	ND	2.50	3.51		0.597	
PCB-23	ND	2.50	2.99		0.543		PCB-63	ND	2.50	3.54		0.524	
PCB-24/27	ND	5.00	3.15		0.742		PCB-65	ND	2.50	3.50		0.842	
PCB-25	ND	2.50	3.04		0.768		PCB-66/76	ND	5.00	3.23		1.31	
PCB-26	ND	2.50	3.17		0.766		PCB-67	ND	2.50	3.05		0.486	
PCB-28	ND	2.50	2.24		1.12		PCB-68	ND	2.50	3.18		0.658	
PCB-29	ND	2.50	3.55		0.949		PCB-73	ND	2.50	3.30		0.454	
PCB-30	ND	2.50	3.36		0.355		PCB-74	ND	2.50	2.71		0.781	
PCB-31	ND	2.50	2.98		0.809		PCB-77	ND	2.50	3.10		0.748	
PCB-34	ND	2.50	3.37		1.57		PCB-78	ND	2.50	2.64		0.385	
PCB-35	ND	2.50	3.14		0.565		PCB-79	ND	2.50	2.96		0.633	
PCB-36	ND	2.50	3.39		0.406		PCB-80	ND	2.50	2.68		0.336	
PCB-37	ND	2.50	3.15		0.389		PCB-81	ND	2.50	2.52		0.674	
PCB-38	ND	2.50	3.23		0.528		PCB-82	ND	2.50	13.1		0.981	
PCB-39	ND	2.50	3.47		0.461		PCB-83	ND	2.50	8.49		0.440	
PCB-40	ND	2.50	6.11		0.927		PCB-84/92	ND	5.00	11.2		1.01	
PCB-41/64/71/72	ND	10.0	3.55		1.70		PCB-85/116	ND	5.00	9.90		1.64	
PCB-42/59	ND	5.00	3.77		0.899		PCB-86	ND	2.50	15.3		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: B5C0059	Lab Sample: B5C0059-BLK1
Sample Size: 2.00 g	Date Extracted: 12-Mar-2015 12:37	Date Analyzed: 18-Mar-15 13:13 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	7.50	8.32		0.880		PCB-133/142	ND	5.00	5.85		1.04	
PCB-88/91	ND	5.00	11.5		1.25		PCB-134/143	ND	5.00	5.23		1.05	
PCB-89	ND	2.50	10.4		1.22		PCB-135	ND	2.50	12.1		1.47	
PCB-90/101	ND	5.00	10.6		1.19		PCB-136	ND	2.50	8.12		0.776	
PCB-93	ND	2.50	15.2		2.53		PCB-137	ND	2.50	4.75		0.541	
PCB-94	ND	2.50	12.2		0.874		PCB-138/163/164	5.41	7.50		0.809	J	
PCB-95/98/102	ND	7.50	10.5		1.38		PCB-139/149	ND	5.00	12.6		1.49	
PCB-96	ND	2.50	8.81		0.588		PCB-140	ND	2.50	13.2		1.20	
PCB-97	ND	2.50	10.9		0.675		PCB-141	ND	2.50	4.65		0.678	
PCB-99	ND	2.50	8.77		0.474		PCB-144	ND	2.50	12.6		1.38	
PCB-100	ND	2.50	10.7		0.511		PCB-145	ND	2.50	7.96		1.05	
PCB-103	ND	2.50	10.5		0.428		PCB-146/165	ND	5.00	3.85		0.792	
PCB-104	ND	2.50	8.47		0.876		PCB-147	ND	2.50	11.7		5.26	
PCB-105	ND	2.50	4.50		0.462		PCB-148	ND	2.50	12.9		1.45	
PCB-106/118	ND	5.00	7.90		0.728		PCB-150	ND	2.50	9.58		0.801	
PCB-107/109	ND	5.00	7.54		0.631		PCB-151	ND	2.50	12.8		1.16	
PCB-108/112	ND	5.00	10.1		0.844		PCB-152	ND	2.50	8.57		0.744	
PCB-110	ND	2.50	8.29		0.555		PCB-153	ND	2.50	3.84		0.484	
PCB-111/115	ND	5.00	7.90		1.24		PCB-154	ND	2.50	11.1		0.837	
PCB-113	ND	2.50	8.31		0.495		PCB-155	ND	2.50	8.59		0.767	
PCB-114	ND	2.50	4.59		0.418		PCB-156	ND	2.50	3.55		0.534	
PCB-119	ND	2.50	8.42		0.383		PCB-157	ND	2.50	3.44		0.485	
PCB-120	ND	2.50	7.69		0.622		PCB-158/160	ND	5.00	3.86		0.915	
PCB-121	ND	2.50	7.95		0.978		PCB-159	ND	2.50	3.77		0.578	
PCB-122	ND	2.50	5.31		0.619		PCB-166	ND	2.50	3.54		0.425	
PCB-123	ND	2.50	8.53		0.494		PCB-167	ND	2.50	3.32		0.653	
PCB-124	ND	2.50	6.78		0.813		PCB-168	ND	2.50	3.31		0.502	
PCB-126	ND	2.50	5.23		0.543		PCB-169	ND	2.50	3.44		0.767	
PCB-127	ND	2.50	4.09		0.326		PCB-170	ND	2.50	3.79		0.758	
PCB-128/162	ND	5.00	4.01		1.08		PCB-171	ND	2.50	3.45		0.372	
PCB-129	ND	2.50	6.07		0.567		PCB-172	ND	2.50	3.34		0.857	
PCB-130	ND	2.50	5.23		0.798		PCB-173	ND	2.50	4.92		0.507	
PCB-131	ND	2.50	5.28		0.731		PCB-174	ND	2.50	3.96		0.797	
PCB-132/161	ND	5.00	4.34		1.05		PCB-175	ND	2.50	4.04		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: B5C0059	Lab Sample: B5C0059-BLK1
Sample Size: 2.00 g	Date Extracted: 12-Mar-2015 12:37	Date Analyzed: 18-Mar-15 13:13 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	2.50	2.77		0.729		Total triCB	ND	2.50				
PCB-177	ND	2.50	4.34		0.404		Total tetraCB	ND	2.50				
PCB-178	ND	2.50	3.95		0.610		Total pentaCB	ND	2.50				
PCB-179	ND	2.50	3.14		0.418		Total hexaCB	5.41	2.50				
PCB-180	ND	2.50	4.06		0.420		Total heptaCB	ND	2.50				
PCB-181	ND	2.50	3.95		1.26		Total octaCB	ND	2.50				
PCB-182/187	ND	5.00	3.27		1.33		Total nonaCB	ND	2.50				
PCB-183	ND	2.50	3.38		0.638		DecaCB	ND	2.50		4.10		
PCB-184	ND	2.50	2.51		0.597		Total PCB	5.41	2.50				
PCB-185	ND	2.50	3.03		0.557								
PCB-186	ND	2.50	2.81		0.421								
PCB-188	ND	2.50	2.59		0.759								
PCB-189	ND	2.50	2.57		0.483								
PCB-190	ND	2.50	2.74		0.686								
PCB-191	ND	2.50	3.22		0.447								
PCB-192	ND	2.50	3.13		0.528								
PCB-193	ND	2.50	3.18		0.836								
PCB-194	ND	2.50	2.68		0.645								
PCB-195	ND	2.50	2.65		0.722								
PCB-196/203	ND	5.00	8.81		0.983								
PCB-197	ND	2.50	6.57		0.794								
PCB-198	ND	2.50	9.35		0.792								
PCB-199	ND	2.50	8.85		0.615								
PCB-200	ND	2.50	6.64		0.795								
PCB-201	ND	2.50	6.14		0.317								
PCB-202	ND	2.50	6.52		0.759								
PCB-204	ND	2.50	6.20		0.543								
PCB-205	ND	2.50	2.11		0.471								
PCB-206	ND	2.50	3.36		0.852								
PCB-207	ND	2.50	1.93		0.402								
PCB-208	ND	2.50	2.24		0.441								
PCB-209	ND	2.50		4.10	1.10								
Total monoCB	ND	2.50											
Total diCB	ND	2.50											

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: B5C0059	Lab Sample: B5C0059-BLK1
Sample Size: 2.00 g	Date Extracted: 12-Mar-2015 12:37	Date Analyzed: 18-Mar-15 13:13 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	50.0	5 - 145		13C-PCB-157	94.4	10 - 145	
13C-PCB-3	62.8	5 - 145		13C-PCB-159	96.8	10 - 145	
13C-PCB-4	60.8	5 - 145		13C-PCB-167	95.8	10 - 145	
13C-PCB-11	77.1	5 - 145		13C-PCB-169	93.0	10 - 145	
13C-PCB-9	68.3	5 - 145		13C-PCB-170	80.9	10 - 145	
13C-PCB-19	71.4	5 - 145		13C-PCB-180	79.1	10 - 145	
13C-PCB-28	88.3	5 - 145		13C-PCB-188	78.7	10 - 145	
13C-PCB-32	77.3	5 - 145		13C-PCB-189	85.5	10 - 145	
13C-PCB-37	99.9	5 - 145		13C-PCB-194	90.4	10 - 145	
13C-PCB-47	80.4	5 - 145		13C-PCB-202	69.4	10 - 145	
13C-PCB-52	81.7	5 - 145		13C-PCB-206	93.7	10 - 145	
13C-PCB-54	71.3	5 - 145		13C-PCB-208	84.1	10 - 145	
13C-PCB-70	87.5	5 - 145		13C-PCB-209	99.0	10 - 145	
13C-PCB-77	92.2	10 - 145		CRS 13C-PCB-79	92.5	10 - 145	
13C-PCB-80	88.2	10 - 145		13C-PCB-178	78.3	10 - 145	
13C-PCB-81	93.4	10 - 145					
13C-PCB-95	87.7	10 - 145					
13C-PCB-97	92.8	10 - 145					
13C-PCB-101	90.5	10 - 145					
13C-PCB-104	82.6	10 - 145					
13C-PCB-105	99.3	10 - 145					
13C-PCB-114	98.1	10 - 145					
13C-PCB-118	95.3	10 - 145					
13C-PCB-123	97.7	10 - 145					
13C-PCB-126	102	10 - 145					
13C-PCB-127	99.7	10 - 145					
13C-PCB-138	91.0	10 - 145					
13C-PCB-141	92.1	10 - 145					
13C-PCB-153	92.1	10 - 145					
13C-PCB-155	72.3	10 - 145					
13C-PCB-156	96.6	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

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 g

QC Batch: B5C0059
Date Extracted: 12-Mar-2015 12:37

Lab Sample: B5C0059-BS1
Date Analyzed: 18-Mar-15 11:04 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	4430	5000	88.7	60 - 135	IS 13C-PCB-1	71.4	15 - 145
PCB-3	4390	5000	87.7	60 - 135	IS 13C-PCB-3	77.6	15 - 145
PCB-4/10	21400	20000	107	60 - 135	IS 13C-PCB-4	68.7	15 - 145
PCB-15	10500	10000	105	60 - 135	IS 13C-PCB-11	79.4	15 - 145
PCB-19	5330	5000	107	60 - 135	IS 13C-PCB-9	73.6	15 - 145
PCB-37	5770	5000	115	60 - 135	IS 13C-PCB-19	76.1	15 - 145
PCB-54	5260	5000	105	60 - 135	IS 13C-PCB-28	94.1	15 - 145
PCB-77	5420	5000	108	60 - 135	IS 13C-PCB-32	79.5	15 - 145
PCB-81	5330	5000	107	60 - 135	IS 13C-PCB-37	108	15 - 145
PCB-104	5860	5000	117	60 - 135	IS 13C-PCB-47	80.7	15 - 145
PCB-105	5350	5000	107	60 - 135	IS 13C-PCB-52	80.1	15 - 145
PCB-106/118	11200	10000	112	60 - 135	IS 13C-PCB-54	70.9	15 - 145
PCB-114	5230	5000	105	60 - 135	IS 13C-PCB-70	90.3	15 - 145
PCB-123	5550	5000	111	60 - 135	IS 13C-PCB-77	96.2	40 - 145
PCB-126	5760	5000	115	60 - 135	IS 13C-PCB-80	89.5	40 - 145
PCB-155	5570	5000	111	60 - 135	IS 13C-PCB-81	94.8	40 - 145
PCB-156	5260	5000	105	60 - 135	IS 13C-PCB-95	87.3	40 - 145
PCB-157	5130	5000	103	60 - 135	IS 13C-PCB-97	92.8	40 - 145
PCB-167	5550	5000	111	60 - 135	IS 13C-PCB-101	90.5	40 - 145
PCB-169	5220	5000	104	60 - 135	IS 13C-PCB-104	81.3	40 - 145
PCB-188	5600	5000	112	60 - 135	IS 13C-PCB-105	104	40 - 145
PCB-189	5450	5000	109	60 - 135	IS 13C-PCB-114	102	40 - 145
PCB-202	5440	5000	109	60 - 135	IS 13C-PCB-118	97.8	40 - 145
PCB-205	5470	5000	109	60 - 135	IS 13C-PCB-123	98.1	40 - 145
PCB-206	5450	5000	109	60 - 135	IS 13C-PCB-126	107	40 - 145
PCB-208	5550	5000	111	60 - 135	IS 13C-PCB-127	103	40 - 145
PCB-209	5580	5000	112	60 - 135	IS 13C-PCB-138	94.3	40 - 145
					IS 13C-PCB-141	93.8	40 - 145
					IS 13C-PCB-153	96.8	40 - 145
					IS 13C-PCB-155	73.4	40 - 145
					IS 13C-PCB-156	104	40 - 145
					IS 13C-PCB-157	103	40 - 145
					IS 13C-PCB-159	99.5	40 - 145
					IS 13C-PCB-167	95.5	40 - 145
					IS 13C-PCB-169	108	40 - 145
					IS 13C-PCB-170	88.5	40 - 145
					IS 13C-PCB-180	84.6	40 - 145
					IS 13C-PCB-188	82.0	40 - 145
					IS 13C-PCB-189	93.0	40 - 145
					IS 13C-PCB-194	91.0	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5C0059
Date Extracted: 12-Mar-2015 12:37

Lab Sample: B5C0059-BS1
Date Analyzed: 18-Mar-15 11:04 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	76.2	40 - 145
					IS 13C-PCB-206	93.1	40 - 145
					IS 13C-PCB-208	81.3	40 - 145
					IS 13C-PCB-209	99.4	40 - 145
					CRS 13C-PCB-79	92.9	40 - 145
					CRS 13C-PCB-178	85.4	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: SC-OWS-05-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-01		Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	7.85 g		QC Batch:	B5C0059		Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 10:10			% Solids:	27.1		Date Analyzed:	19-Mar-15 16:00		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	447	47.0			0.320	D	PCB-44	146000	47.0			0.745	D
PCB-2	148	47.0			0.240	D	PCB-45	26100	47.0			0.402	D
PCB-3	427	47.0			0.323	D	PCB-46	14900	47.0			0.537	D
PCB-4/10	6520	94.1			1.14	D	PCB-47	84600	47.0			2.19	D
PCB-5/8	23400	94.1			1.76	D	PCB-48/75	23800	94.1			0.983	D
PCB-6	8660	47.0			1.00	D	PCB-50	498	47.0			0.603	D
PCB-7/9	2730	94.1			1.34	D	PCB-51	50400	47.0			0.789	D
PCB-11	5450	47.0			3.48	D	PCB-52/69	175000	94.1			0.722	D
PCB-12/13	3280	94.1			1.37	D	PCB-53	72600	47.0			0.331	D
PCB-14	ND	47.0	695		0.337	D	PCB-54	6040	47.0			0.275	D
PCB-15	29000	47.0			0.634	D	PCB-55	5370	47.0			0.416	D
PCB-16/32	76800	94.1			0.430	D	PCB-56/60	163000	94.1			0.825	D
PCB-17	35300	47.0			0.658	D	PCB-57	1640	47.0			0.354	D
PCB-18	95600	47.0			0.696	D	PCB-58	740	47.0			0.589	D
PCB-19	12000	47.0			0.612	D	PCB-61/70	243000	94.1			1.20	D
PCB-20/21/33	70900	141			2.47	D	PCB-62	ND	47.0	263		0.597	D
PCB-22	56500	47.0			0.964	D	PCB-63	9050	47.0			0.524	D
PCB-23	ND	47.0		67.1	0.543	D	PCB-65	ND	47.0	262		0.842	D
PCB-24/27	9250	94.1			0.742	D	PCB-66/76	207000	94.1			1.31	D
PCB-25	16500	47.0			0.768	D	PCB-67	7660	47.0			0.486	D
PCB-26	30900	47.0			0.766	D	PCB-68	2060	47.0			0.658	D
PCB-28	117000	47.0			1.12	D	PCB-73	1870	47.0			0.454	D
PCB-29	722	47.0			0.949	D	PCB-74	75600	47.0			0.781	D
PCB-30	ND	47.0	69.3		0.355	D	PCB-77	50800	47.0			0.748	D
PCB-31	111000	47.0			0.809	D	PCB-78	ND	47.0	245		0.385	D
PCB-34	1250	47.0			1.57	D	PCB-79	3180	47.0			0.633	D
PCB-35	3880	47.0			0.565	D	PCB-80	ND	47.0	247		0.336	D
PCB-36	ND	47.0	219		0.406	D	PCB-81	1380	47.0			0.674	D
PCB-37	93900	47.0			0.389	D	PCB-82	40000	47.0			0.981	D
PCB-38	1570	47.0			0.528	D	PCB-83	ND	47.0		207	0.440	D
PCB-39	484	47.0			0.461	D	PCB-84/92	107000	94.1			1.01	D
PCB-40	37000	47.0			0.927	D	PCB-85/116	47900	94.1			1.64	D
PCB-41/64/71/72	150000	188			1.70	D	PCB-86	1440	47.0			1.79	D
PCB-42/59	56200	94.1			0.899	D	PCB-87/117/125	100000	141			0.880	D
PCB-43/49	170000	94.1			0.879	D	PCB-88/91	48200	94.1			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: SC-OWS-05-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-01	Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	7.85 g		QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 10:10			% Solids:	27.1		Date Analyzed :	19-Mar-15 16:00 Column: ZB-1 Analyst: DMS				

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	3350	47.0			1.22	D	PCB-136	37400	47.0			0.776	D
PCB-90/101	287000	94.1			1.19	D	PCB-137	20400	47.0			0.541	D
PCB-93	ND	47.0	489		2.53	D	PCB-138/163/164	412000	141			0.809	B, D
PCB-94	4170	47.0			0.874	D	PCB-139/149	322000	94.1			1.49	D
PCB-95/98/102	161000	141			1.38	D	PCB-140	3170	47.0			1.20	D
PCB-96	4780	47.0			0.588	D	PCB-141	74600	47.0			0.678	D
PCB-97	84800	47.0			0.675	D	PCB-144	15600	47.0			1.38	D
PCB-99	107000	47.0			0.474	D	PCB-145	ND	47.0	267		1.05	D
PCB-100	6010	47.0			0.511	D	PCB-146/165	53600	94.1			0.792	D
PCB-103	4780	47.0			0.428	D	PCB-147	11600	47.0			5.26	D
PCB-104	582	47.0			0.876	D	PCB-148	792	47.0			1.45	D
PCB-105	138000	47.0			0.462	D	PCB-150	1770	47.0			0.801	D
PCB-106/118	306000	94.1			0.728	D	PCB-151	78800	47.0			1.16	D
PCB-107/109	20000	94.1			0.631	D	PCB-152	ND	47.0		663	0.744	D
PCB-108/112	13300	94.1			0.844	D	PCB-153	331000	47.0			0.484	E, D
PCB-110	346000	47.0			0.555	E, D	PCB-154	8500	47.0			0.837	D
PCB-111/115	3390	94.1			1.24	D	PCB-155	ND	47.0	288		0.767	D
PCB-113	ND	47.0	287		0.495	D	PCB-156	45200	47.0			0.534	D
PCB-114	6880	47.0			0.418	D	PCB-157	9880	47.0			0.485	D
PCB-119	11900	47.0			0.383	D	PCB-158/160	46000	94.1			0.915	D
PCB-120	ND	47.0		1060	0.622	D	PCB-159	ND	47.0	304		0.578	D
PCB-121	ND	47.0	255		0.978	D	PCB-166	1360	47.0			0.425	D
PCB-122	4020	47.0			0.619	D	PCB-167	17400	47.0			0.653	D
PCB-123	4560	47.0			0.494	D	PCB-168	674	47.0			0.502	D
PCB-124	10700	47.0			0.813	D	PCB-169	279	47.0			0.767	D
PCB-126	5780	47.0			0.543	D	PCB-170	123000	47.0			0.758	D
PCB-127	ND	47.0	279		0.326	D	PCB-171	28100	47.0			0.372	D
PCB-128/162	66600	94.1			1.08	D	PCB-172	16300	47.0			0.857	D
PCB-129	21100	47.0			0.567	D	PCB-173	3020	47.0			0.507	D
PCB-130	25900	47.0			0.798	D	PCB-174	113000	47.0			0.797	D
PCB-131	ND	47.0		78.9	0.731	D	PCB-175	5380	47.0			0.679	D
PCB-132/161	117000	94.1			1.05	D	PCB-176	12600	47.0			0.729	D
PCB-133/142	13300	94.1			1.04	D	PCB-177	70900	47.0			0.404	D
PCB-134/143	19400	94.1			1.05	D	PCB-178	21800	47.0			0.610	D
PCB-135	46000	47.0			1.47	D	PCB-179	44200	47.0			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: SC-OWS-05-20141211-S

EPA Method 1668C

Client Data			Sample Data			Laboratory Data			
Name:	Leidos		Matrix:	Sediment		Lab Sample:	1400948-01	Date Received:	12-Dec-2014 8:53
Project:			Sample Size:	7.85 g		QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37
Date Collected:	11-Dec-2014 10:10		% Solids:	27.1		Date Analyzed :	19-Mar-15 16:00	Column:	ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	275000	47.0			0.420	E, D	Total octaCB	228000	47.0				
PCB-181	468	47.0			1.26	D	Total nonaCB	39300	47.0				
PCB-182/187	122000	94.1			1.33	D	DecaCB	6090	47.0				
PCB-183	58200	47.0			0.638	D	Total PCB	7500000	47.0				
PCB-184	ND	47.0		143	0.597	D							
PCB-185	9050	47.0			0.557	D							
PCB-186	ND	47.0	159		0.421	D							
PCB-188	441	47.0			0.759	D							
PCB-189	4770	47.0			0.483	D							
PCB-190	23400	47.0			0.686	D							
PCB-191	4980	47.0			0.447	D							
PCB-192	ND	47.0	165		0.528	D							
PCB-193	13500	47.0			0.836	D							
PCB-194	53900	47.0			0.645	D							
PCB-195	20400	47.0			0.722	D							
PCB-196/203	66400	94.1			0.983	D							
PCB-197	2310	47.0			0.794	D							
PCB-198	2530	47.0			0.792	D							
PCB-199	56700	47.0			0.615	D							
PCB-200	6440	47.0			0.795	D							
PCB-201	6690	47.0			0.317	D							
PCB-202	10100	47.0			0.759	D							
PCB-204	ND	47.0	172		0.543	D							
PCB-205	2780	47.0			0.471	D							
PCB-206	28300	47.0			0.852	D							
PCB-207	2920	47.0			0.402	D							
PCB-208	8170	47.0			0.441	D							
PCB-209	6090	47.0			1.10	D							
Total monoCB	1020	47.0											
Total diCB	79000	47.0											
Total triCB	733000	47.0		734000									
Total tetraCB	1790000	47.0											
Total pentaCB	1880000	47.0											
Total hexaCB	1800000	47.0											
Total heptaCB	950000	47.0											

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: SC-OWS-05-20141211-S

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Sediment	Lab Sample:	1400948-01
Project:		Sample Size:	7.85 g	Date Received:	12-Dec-2014 8:53
Date Collected:	11-Dec-2014 10:10	% Solids:	27.1	QC Batch:	B5C0059
				Date Analyzed:	19-Mar-15 16:00
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	112	5 -145	D	13C-PCB-170	96.8	10 -145	D
13C-PCB-3	114	5 -145	D	13C-PCB-180	99.4	10 -145	D
13C-PCB-4	111	5 -145	D	13C-PCB-188	93.2	10 -145	D
13C-PCB-11	107	5 -145	D	13C-PCB-189	95.9	10 -145	D
13C-PCB-9	104	5 -145	D	13C-PCB-194	97.9	10 -145	D
13C-PCB-19	115	5 -145	D	13C-PCB-202	82.2	10 -145	D
13C-PCB-28	103	5 -145	D	13C-PCB-206	101	10 -145	D
13C-PCB-32	97.2	5 -145	D	13C-PCB-208	90.1	10 -145	D
13C-PCB-37	112	5 -145	D	13C-PCB-209	108	10 -145	D
13C-PCB-47	108	5 -145	D	CRS 13C-PCB-79	103	10 -145	D
13C-PCB-52	107	5 -145	D	13C-PCB-178	92.8	10 -145	D
13C-PCB-54	95.5	5 -145	D				
13C-PCB-70	102	5 -145	D				
13C-PCB-77	101	10 -145	D				
13C-PCB-80	97.5	10 -145	D				
13C-PCB-81	106	10 -145	D				
13C-PCB-95	100	10 -145	D				
13C-PCB-97	97.8	10 -145	D				
13C-PCB-101	96.9	10 -145	D				
13C-PCB-104	100	10 -145	D				
13C-PCB-105	112	10 -145	D				
13C-PCB-114	118	10 -145	D				
13C-PCB-118	103	10 -145	D				
13C-PCB-123	111	10 -145	D				
13C-PCB-126	108	10 -145	D				
13C-PCB-127	105	10 -145	D				
13C-PCB-138	110	10 -145	D				
13C-PCB-141	109	10 -145	D				
13C-PCB-153	109	10 -145	D				
13C-PCB-155	78.3	10 -145	D				
13C-PCB-156	109	10 -145	D				
13C-PCB-157	108	10 -145	D				
13C-PCB-159	105	10 -145	D				
13C-PCB-167	105	10 -145	D				
13C-PCB-169	112	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.

Sample ID: SC-CB-35-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-02		Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	3.49 g		QC Batch:	B5C0059		Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 13:00			% Solids:	54.2		Date Analyzed :	18-Mar-15 19:39		Column:	ZB-1 Analyst: MAS		
									19-Mar-15 17:05		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	52.9	174		0.320	D	PCB-44	10500	52.9			0.745	D
PCB-2	ND	52.9	194		0.240	D	PCB-45	1340	52.9			0.402	D
PCB-3	ND	52.9	161		0.323	D	PCB-46	727	52.9			0.537	D
PCB-4/10	ND	106	620		1.14	D	PCB-47	2420	52.9			2.19	D
PCB-5/8	1480	106			1.76	D	PCB-48/75	1880	106			0.983	D
PCB-6	ND	52.9	503		1.00	D	PCB-50	ND	52.9	202		0.603	D
PCB-7/9	ND	106	543		1.34	D	PCB-51	554	52.9			0.789	D
PCB-11	2860	52.9			3.48	D	PCB-52/69	9070	106			0.722	D
PCB-12/13	ND	106	607		1.37	D	PCB-53	1110	52.9			0.331	D
PCB-14	ND	52.9	653		0.337	D	PCB-54	ND	52.9	161		0.275	D
PCB-15	1850	52.9			0.634	D	PCB-55	522	52.9			0.416	D
PCB-16/32	2900	106			0.430	D	PCB-56/60	16900	106			0.825	D
PCB-17	1320	52.9			0.658	D	PCB-57	ND	52.9	177		0.354	D
PCB-18	3510	52.9			0.696	D	PCB-58	ND	52.9	187		0.589	D
PCB-19	ND	52.9		377	0.612	D	PCB-61/70	25400	106			1.20	D
PCB-20/21/33	5490	159			2.47	D	PCB-62	ND	52.9	178		0.597	D
PCB-22	3580	52.9			0.964	D	PCB-63	784	52.9			0.524	D
PCB-23	ND	52.9	96.5		0.543	D	PCB-65	ND	52.9	178		0.842	D
PCB-24/27	313	106			0.742	D	PCB-66/76	20100	106			1.31	D
PCB-25	571	52.9			0.768	D	PCB-67	658	52.9			0.486	D
PCB-26	1120	52.9			0.766	D	PCB-68	ND	52.9		108	0.658	D
PCB-28	5570	52.9			1.12	D	PCB-73	ND	52.9	172		0.454	D
PCB-29	ND	52.9	114		0.949	D	PCB-74	7420	52.9			0.781	D
PCB-30	ND	52.9	106		0.355	D	PCB-77	7160	52.9			0.748	D
PCB-31	6020	52.9			0.809	D	PCB-78	ND	52.9	151		0.385	D
PCB-34	ND	52.9	109		1.57	D	PCB-79	355	52.9			0.633	D
PCB-35	570	52.9			0.565	D	PCB-80	ND	52.9	147		0.336	D
PCB-36	ND	52.9	115		0.406	D	PCB-81	183	52.9			0.674	D
PCB-37	9200	52.9			0.389	D	PCB-82	5610	52.9			0.981	D
PCB-38	ND	52.9	110		0.528	D	PCB-83	ND	52.9	397		0.440	D
PCB-39	ND	52.9	118		0.461	D	PCB-84/92	9260	106			1.01	D
PCB-40	2900	52.9			0.927	D	PCB-85/116	5260	106			1.64	D
PCB-41/64/71/72	11300	212			1.70	D	PCB-86	ND	52.9	716		1.79	D
PCB-42/59	4050	106			0.899	D	PCB-87/117/125	10500	159			0.880	D
PCB-43/49	7480	106			0.879	D	PCB-88/91	3060	106			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: SC-CB-35-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-02	Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	3.49 g		QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 13:00			% Solids:	54.2		Date Analyzed :	18-Mar-15 19:39 Column: ZB-1 Analyst: MAS				
							19-Mar-15 17:05 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	52.9		319	1.22	D	PCB-136	3810	52.9			0.776	D
PCB-90/101	27300	106			1.19	D	PCB-137	2100	52.9			0.541	D
PCB-93	ND	52.9	820		2.53	D	PCB-138/163/164	52000	159			0.809	B, D
PCB-94	ND	52.9	654		0.874	D	PCB-139/149	35800	106			1.49	D
PCB-95/98/102	13700	159			1.38	D	PCB-140	ND	52.9		293	1.20	D
PCB-96	ND	52.9	389		0.588	D	PCB-141	10500	52.9			0.678	D
PCB-97	8260	52.9			0.675	D	PCB-144	ND	52.9		2080	1.38	D
PCB-99	9620	52.9			0.474	D	PCB-145	ND	52.9	219		1.05	D
PCB-100	ND	52.9	473		0.511	D	PCB-146/165	5920	106			0.792	D
PCB-103	ND	52.9	463		0.428	D	PCB-147	539	52.9			5.26	D
PCB-104	ND	52.9	374		0.876	D	PCB-148	ND	52.9	354		1.45	D
PCB-105	18500	52.9			0.462	D	PCB-150	ND	52.9	264		0.801	D
PCB-106/118	39100	106			0.728	D	PCB-151	9040	52.9			1.16	D
PCB-107/109	2490	106			0.631	D	PCB-152	ND	52.9	236		0.744	D
PCB-108/112	ND	106		1170	0.844	D	PCB-153	40600	52.9			0.484	D
PCB-110	35000	52.9			0.555	D	PCB-154	628	52.9			0.837	D
PCB-111/115	474	106			1.24	D	PCB-155	ND	52.9	237		0.767	D
PCB-113	ND	52.9	479		0.495	D	PCB-156	5850	52.9			0.534	D
PCB-114	836	52.9			0.418	D	PCB-157	1340	52.9			0.485	D
PCB-119	695	52.9			0.383	D	PCB-158/160	5990	106			0.915	D
PCB-120	ND	52.9	360		0.622	D	PCB-159	ND	52.9	349		0.578	D
PCB-121	ND	52.9	428		0.978	D	PCB-166	219	52.9			0.425	D
PCB-122	517	52.9			0.619	D	PCB-167	2190	52.9			0.653	D
PCB-123	860	52.9			0.494	D	PCB-168	ND	52.9	283		0.502	D
PCB-124	1620	52.9			0.813	D	PCB-169	ND	52.9	271		0.767	D
PCB-126	865	52.9			0.543	D	PCB-170	16800	2.64			0.758	E
PCB-127	ND	52.9	291		0.326	D	PCB-171	3430	52.9			0.372	D
PCB-128/162	7930	106			1.08	D	PCB-172	2450	52.9			0.857	D
PCB-129	2720	52.9			0.567	D	PCB-173	293	52.9			0.507	D
PCB-130	3730	52.9			0.798	D	PCB-174	15500	52.9			0.797	D
PCB-131	ND	52.9	452		0.731	D	PCB-175	817	52.9			0.679	D
PCB-132/161	13500	106			1.05	D	PCB-176	1760	52.9			0.729	D
PCB-133/142	1430	106			1.04	D	PCB-177	9260	52.9			0.404	D
PCB-134/143	2400	106			1.05	D	PCB-178	ND	52.9		2980	0.610	D
PCB-135	5130	52.9			1.47	D	PCB-179	5720	52.9			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: SC-CB-35-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-02	Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	3.49 g		QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 13:00			% Solids:	54.2		Date Analyzed :	18-Mar-15 19:39 Column: ZB-1 Analyst: MAS				
							19-Mar-15 17:05 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	41200	52.9			0.420	D	Total octaCB	37700	52.9		38100		
PCB-181	ND	52.9	226		1.26	D	Total nonaCB	5960	52.9				
PCB-182/187	17200	106			1.33	D	DecaCB	1020	52.9				
PCB-183	8680	52.9			0.638	D	Total PCB	762000	52.9				
PCB-184	ND	52.9	168		0.597	D							
PCB-185	1260	52.9			0.557	D							
PCB-186	ND	52.9	189		0.421	D							
PCB-188	ND	52.9	174		0.759	D							
PCB-189	927	52.9			0.483	D							
PCB-190	3140	2.64			0.686								
PCB-191	758	52.9			0.447	D							
PCB-192	ND	52.9	179		0.528	D							
PCB-193	1910	52.9			0.836	D							
PCB-194	9210	52.9			0.645	D							
PCB-195	3080	52.9			0.722	D							
PCB-196/203	11400	106			0.983	D							
PCB-197	352	52.9			0.794	D							
PCB-198	ND	52.9		422	0.792	D							
PCB-199	9510	52.9			0.615	D							
PCB-200	998	52.9			0.795	D							
PCB-201	1100	52.9			0.317	D							
PCB-202	1530	52.9			0.759	D							
PCB-204	ND	52.9	297		0.543	D							
PCB-205	504	52.9			0.471	D							
PCB-206	4250	52.9			0.852	D							
PCB-207	458	52.9			0.402	D							
PCB-208	1250	52.9			0.441	D							
PCB-209	1020	52.9			1.10	D							
Total monoCB	ND	52.9											
Total diCB	6190	52.9											
Total triCB	40100	52.9		40500									
Total tetraCB	133000	52.9											
Total pentaCB	193000	52.9		195000									
Total hexaCB	213000	52.9		216000									
Total heptaCB	131000	52.9		134000									

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: SC-CB-35-20141211-S

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Sediment	Lab Sample:	1400948-02
Project:		Sample Size:	3.49 g	Date Received:	12-Dec-2014 8:53
Date Collected:	11-Dec-2014 13:00	% Solids:	54.2	QC Batch:	B5C0059
				Date Analyzed :	18-Mar-15 19:39 Column: ZB-1 Analyst: MAS
					19-Mar-15 17:05 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	103	5 -145	D	13C-PCB-170	114	10 -145	
13C-PCB-3	101	5 -145	D	13C-PCB-180	103	10 -145	D
13C-PCB-4	100	5 -145	D	13C-PCB-188	88.8	10 -145	D
13C-PCB-11	98.9	5 -145	D	13C-PCB-189	98.8	10 -145	D
13C-PCB-9	100	5 -145	D	13C-PCB-194	100	10 -145	D
13C-PCB-19	97.4	5 -145	D	13C-PCB-202	88.5	10 -145	D
13C-PCB-28	99.1	5 -145	D	13C-PCB-206	102	10 -145	D
13C-PCB-32	91.8	5 -145	D	13C-PCB-208	84.7	10 -145	D
13C-PCB-37	104	5 -145	D	13C-PCB-209	103	10 -145	D
13C-PCB-47	97.2	5 -145	D	CRS 13C-PCB-79	99.1	10 -145	D
13C-PCB-52	94.0	5 -145	D	13C-PCB-178	99.2	10 -145	D
13C-PCB-54	91.3	5 -145	D				
13C-PCB-70	97.0	5 -145	D				
13C-PCB-77	102	10 -145	D				
13C-PCB-80	102	10 -145	D				
13C-PCB-81	102	10 -145	D				
13C-PCB-95	102	10 -145	D				
13C-PCB-97	108	10 -145	D				
13C-PCB-101	101	10 -145	D				
13C-PCB-104	104	10 -145	D				
13C-PCB-105	107	10 -145	D				
13C-PCB-114	119	10 -145	D				
13C-PCB-118	101	10 -145	D				
13C-PCB-123	100	10 -145	D				
13C-PCB-126	112	10 -145	D				
13C-PCB-127	102	10 -145	D				
13C-PCB-138	104	10 -145	D				
13C-PCB-141	98.9	10 -145	D				
13C-PCB-153	102	10 -145	D				
13C-PCB-155	79.9	10 -145	D				
13C-PCB-156	111	10 -145	D				
13C-PCB-157	103	10 -145	D				
13C-PCB-159	101	10 -145	D				
13C-PCB-167	111	10 -145	D				
13C-PCB-169	109	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.

Sample ID: SC-CB-24-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-03		Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	4.57 g		QC Batch:	B5C0059		Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 14:00			% Solids:	41.6		Date Analyzed :	18-Mar-15 20:44		Column:	ZB-1 Analyst: MAS		
									19-Mar-15 18:09		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	132	52.6			0.320	D	PCB-44	21100	52.6			0.745	D
PCB-2	ND	52.6	161		0.240	D	PCB-45	1400	52.6			0.402	D
PCB-3	107	52.6			0.323	D	PCB-46	585	52.6			0.537	D
PCB-4/10	ND	105	711		1.14	D	PCB-47	2850	52.6			2.19	D
PCB-5/8	1170	105			1.76	D	PCB-48/75	2150	105			0.983	D
PCB-6	ND	52.6		238	1.00	D	PCB-50	ND	52.6	201		0.603	D
PCB-7/9	ND	105	581		1.34	D	PCB-51	437	52.6			0.789	D
PCB-11	4330	52.6			3.48	D	PCB-52/69	25400	105			0.722	D
PCB-12/13	ND	105	576		1.37	D	PCB-53	1270	52.6			0.331	D
PCB-14	ND	52.6	620		0.337	D	PCB-54	ND	52.6	160		0.275	D
PCB-15	1770	52.6			0.634	D	PCB-55	720	52.6			0.416	D
PCB-16/32	2550	105			0.430	D	PCB-56/60	18600	105			0.825	D
PCB-17	1160	52.6			0.658	D	PCB-57	ND	52.6		125	0.354	D
PCB-18	3190	52.6			0.696	D	PCB-58	ND	52.6	173		0.589	D
PCB-19	323	52.6			0.612	D	PCB-61/70	41600	105			1.20	D
PCB-20/21/33	5400	158			2.47	D	PCB-62	ND	52.6	181		0.597	D
PCB-22	3440	52.6			0.964	D	PCB-63	879	52.6			0.524	D
PCB-23	ND	52.6	105		0.543	D	PCB-65	ND	52.6	180		0.842	D
PCB-24/27	321	105			0.742	D	PCB-66/76	21300	105			1.31	D
PCB-25	475	52.6			0.768	D	PCB-67	687	52.6			0.486	D
PCB-26	1040	52.6			0.766	D	PCB-68	ND	52.6		115	0.658	D
PCB-28	5010	52.6			1.12	D	PCB-73	ND	52.6	162		0.454	D
PCB-29	ND	52.6	125		0.949	D	PCB-74	9920	52.6			0.781	D
PCB-30	ND	52.6	75.5		0.355	D	PCB-77	7140	2.63			0.748	
PCB-31	5530	52.6			0.809	D	PCB-78	ND	52.6	149		0.385	D
PCB-34	ND	52.6	118		1.57	D	PCB-79	743	52.6			0.633	D
PCB-35	565	52.6			0.565	D	PCB-80	ND	52.6	136		0.336	D
PCB-36	ND	52.6	133		0.406	D	PCB-81	411	52.6			0.674	D
PCB-37	8390	52.6			0.389	D	PCB-82	10300	52.6			0.981	D
PCB-38	ND	52.6	126		0.528	D	PCB-83	ND	52.6	239		0.440	D
PCB-39	ND	52.6	136		0.461	D	PCB-84/92	27200	105			1.01	D
PCB-40	3620	52.6			0.927	D	PCB-85/116	11300	105			1.64	D
PCB-41/64/71/72	15900	210			1.70	D	PCB-86	238	52.6			1.79	D
PCB-42/59	4430	105			0.899	D	PCB-87/117/125	27400	158			0.880	D
PCB-43/49	11600	105			0.879	D	PCB-88/91	8670	105			1.25	D

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The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: SC-CB-24-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-03	Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	4.57 g		QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 14:00			% Solids:	41.6		Date Analyzed :	18-Mar-15 20:44 Column: ZB-1 Analyst: MAS				
							19-Mar-15 18:09 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	610	52.6			1.22	D	PCB-136	7230	52.6			0.776	D
PCB-90/101	73600	105			1.19	D	PCB-137	5280	52.6			0.541	D
PCB-93	ND	52.6	457		2.53	D	PCB-138/163/164	91200	158			0.809	B, D
PCB-94	322	52.6			0.874	D	PCB-139/149	59900	105			1.49	D
PCB-95/98/102	48200	158			1.38	D	PCB-140	ND	52.6		422	1.20	D
PCB-96	430	52.6			0.588	D	PCB-141	16500	52.6			0.678	D
PCB-97	20200	52.6			0.675	D	PCB-144	3960	52.6			1.38	D
PCB-99	25000	52.6			0.474	D	PCB-145	ND	52.6	248		1.05	D
PCB-100	130	52.6			0.511	D	PCB-146/165	9870	105			0.792	D
PCB-103	319	52.6			0.428	D	PCB-147	1330	52.6			5.26	D
PCB-104	ND	52.6	221		0.876	D	PCB-148	ND	52.6	400		1.45	D
PCB-105	35700	52.6			0.462	D	PCB-150	ND	52.6	298		0.801	D
PCB-106/118	79900	105			0.728	D	PCB-151	13000	52.6			1.16	D
PCB-107/109	4900	105			0.631	D	PCB-152	ND	52.6	267		0.744	D
PCB-108/112	2670	105			0.844	D	PCB-153	67300	52.6			0.484	D
PCB-110	81300	52.6			0.555	D	PCB-154	747	52.6			0.837	D
PCB-111/115	918	105			1.24	D	PCB-155	ND	52.6	267		0.767	D
PCB-113	ND	52.6	243		0.495	D	PCB-156	11400	52.6			0.534	D
PCB-114	1840	52.6			0.418	D	PCB-157	2560	52.6			0.485	D
PCB-119	975	52.6			0.383	D	PCB-158/160	11400	105			0.915	D
PCB-120	137	52.6			0.622	D	PCB-159	ND	52.6	179		0.578	D
PCB-121	ND	52.6	239		0.978	D	PCB-166	387	52.6			0.425	D
PCB-122	872	52.6			0.619	D	PCB-167	4180	52.6			0.653	D
PCB-123	1350	52.6			0.494	D	PCB-168	ND	52.6	178		0.502	D
PCB-124	3100	52.6			0.813	D	PCB-169	ND	52.6	181		0.767	D
PCB-126	1440	52.6			0.543	D	PCB-170	20500	52.6			0.758	D
PCB-127	ND	52.6	277		0.326	D	PCB-171	4440	52.6			0.372	D
PCB-128/162	15300	105			1.08	D	PCB-172	3110	52.6			0.857	D
PCB-129	5850	52.6			0.567	D	PCB-173	390	52.6			0.507	D
PCB-130	6110	52.6			0.798	D	PCB-174	19400	52.6			0.797	D
PCB-131	ND	52.6	285		0.731	D	PCB-175	954	52.6			0.679	D
PCB-132/161	26900	105			1.05	D	PCB-176	2210	52.6			0.729	D
PCB-133/142	2900	105			1.04	D	PCB-177	11500	52.6			0.404	D
PCB-134/143	4980	105			1.05	D	PCB-178	3870	52.6			0.610	D
PCB-135	8020	52.6			1.47	D	PCB-179	7370	52.6			0.418	D

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Sample ID: SC-CB-24-20141211-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1400948-03	Date Received:	12-Dec-2014 8:53		
Project:				Sample Size:	4.57 g		QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37		
Date Collected:	11-Dec-2014 14:00			% Solids:	41.6		Date Analyzed :	18-Mar-15 20:44 Column: ZB-1 Analyst: MAS				
							19-Mar-15 18:09 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	52500	52.6			0.420	D	Total octaCB	57100	52.6		57500		
PCB-181	ND	52.6	175		1.26	D	Total nonaCB	12500	52.6				
PCB-182/187	22800	105			1.33	D	DecaCB	1560	52.6				
PCB-183	11600	52.6			0.638	D	Total PCB	1320000	52.6				
PCB-184	ND	52.6		61.7	0.597	D							
PCB-185	1700	52.6			0.557	D							
PCB-186	ND	52.6	129		0.421	D							
PCB-188	112	52.6			0.759	D							
PCB-189	824	52.6			0.483	D							
PCB-190	4060	52.6			0.686	D							
PCB-191	1010	52.6			0.447	D							
PCB-192	ND	52.6	138		0.528	D							
PCB-193	2190	52.6			0.836	D							
PCB-194	12000	52.6			0.645	D							
PCB-195	3820	52.6			0.722	D							
PCB-196/203	18600	105			0.983	D							
PCB-197	ND	52.6		452	0.794	D							
PCB-198	761	52.6			0.792	D							
PCB-199	14900	52.6			0.615	D							
PCB-200	1670	52.6			0.795	D							
PCB-201	1860	52.6			0.317	D							
PCB-202	2940	52.6			0.759	D							
PCB-204	ND	52.6	239		0.543	D							
PCB-205	537	52.6			0.471	D							
PCB-206	8950	52.6			0.852	D							
PCB-207	1030	52.6			0.402	D							
PCB-208	2470	52.6			0.441	D							
PCB-209	1560	52.6			1.10	D							
Total monoCB	239	52.6											
Total diCB	7260	52.6		7500									
Total triCB	37400	52.6											
Total tetraCB	193000	52.6											
Total pentaCB	469000	52.6											
Total hexaCB	376000	52.6		377000									
Total heptaCB	171000	52.6											

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: SC-CB-24-20141211-S

EPA Method 1668C

Client Data		Sample Data		Laboratory Data							
Name:	Leidos	Matrix:	Sediment	Lab Sample:	1400948-03	Date Received:	12-Dec-2014 8:53				
Project:		Sample Size:	4.57 g	QC Batch:	B5C0059	Date Extracted:	12-Mar-2015 12:37				
Date Collected:	11-Dec-2014 14:00	% Solids:	41.6	Date Analyzed :	18-Mar-15 20:44	Column:	ZB-1	Analyst:	MAS		
				19-Mar-15 18:09				Column:	ZB-1	Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	85.6	5 -145	D	13C-PCB-170	92.8	10 -145	D
13C-PCB-3	91.2	5 -145	D	13C-PCB-180	92.6	10 -145	D
13C-PCB-4	93.1	5 -145	D	13C-PCB-188	88.8	10 -145	D
13C-PCB-11	101	5 -145	D	13C-PCB-189	89.3	10 -145	D
13C-PCB-9	96.4	5 -145	D	13C-PCB-194	102	10 -145	D
13C-PCB-19	89.9	5 -145	D	13C-PCB-202	78.9	10 -145	D
13C-PCB-28	100	5 -145	D	13C-PCB-206	100	10 -145	D
13C-PCB-32	91.9	5 -145	D	13C-PCB-208	90.3	10 -145	D
13C-PCB-37	106	5 -145	D	13C-PCB-209	101	10 -145	D
13C-PCB-47	84.9	5 -145	D	CRS 13C-PCB-79	91.1	10 -145	D
13C-PCB-52	86.2	5 -145	D	13C-PCB-178	94.3	10 -145	D
13C-PCB-54	87.2	5 -145	D				
13C-PCB-70	90.5	5 -145	D				
13C-PCB-77	80.8	10 -145					
13C-PCB-80	90.8	10 -145	D				
13C-PCB-81	91.9	10 -145	D				
13C-PCB-95	96.2	10 -145	D				
13C-PCB-97	112	10 -145	D				
13C-PCB-101	101	10 -145	D				
13C-PCB-104	101	10 -145	D				
13C-PCB-105	107	10 -145	D				
13C-PCB-114	118	10 -145	D				
13C-PCB-118	104	10 -145	D				
13C-PCB-123	107	10 -145	D				
13C-PCB-126	106	10 -145	D				
13C-PCB-127	104	10 -145	D				
13C-PCB-138	99.0	10 -145	D				
13C-PCB-141	103	10 -145	D				
13C-PCB-153	98.7	10 -145	D				
13C-PCB-155	78.6	10 -145	D				
13C-PCB-156	105	10 -145	D				
13C-PCB-157	101	10 -145	D				
13C-PCB-159	112	10 -145	D				
13C-PCB-167	104	10 -145	D				
13C-PCB-169	99.6	10 -145	D				

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The results are reported in dry weight. The sample size is reported in wet weight.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
H	Recovery was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	Method Detection Limit as determined by 40 CFR 136, Appendix B.
EMPC	Estimated Maximum Possible Concentration
M	Estimated Maximum Possible Concentration (CA Region 2)
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Michigan Department of Natural Resources	9932
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Department of Health & Human Services	06700
Oregon Laboratory Accreditation Program	4042-003
Pennsylvania Department of Environmental Protection	011
South Carolina Department of Health	87002001
Tennessee Department of Environment & Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	3138
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1400948 TAT Std

Samples Arrival:	Date/Time 12/12/14 0853	Initials: UBAB	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time 12/12/14 1519	Initials: UBAB	Location: WR-2
			Shelf/Rack: CA / EP
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: 1.9 (uncorrected)	Time: 0859		Thermometer ID: IR-1
Temp °C: 1.9 (corrected)			

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 8064 5979 2390	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?		✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓
Na ₂ S ₂ O ₃ Preservation Documented?	NA	COC	Sample Container	None
Shipping Container	<input checked="" type="checkbox"/> Vista	Client	<input checked="" type="checkbox"/> Retain	Return Dispose

Comments:

AQ Sample SC-MH-20-20141211-W A,B,C,D Containers

Chain of Custody Anomaly/Sample Acceptance Form



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

Workorder Number: 1400948
Date Received: 12-Dec-14 08:53
Documented by/date: B.Benedict 12/12/2014

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

Thank you,

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

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

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

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

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

Comments: COC ID:
SC-MH-20-20141211-S

Label ID:
SC-MH-20-20141211-W

Client Authorization	
Proceed with Analysis: <input checked="" type="radio"/> YES <input type="radio"/> NO	Signature and Date: <u>MM 12/31/14</u>
Client Comments/Instructions: <u>Label ID is correct, per email.</u>	

EXTRACTION INFORMATION

Process Sheet
Workorder: 1400948

RK

Prep Expiration: 12/11/2015
Client: Leidos

March 30
Workorder Due: 02-Jan-15 00:00

TAT: 21

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

Prep Batch: B500059

Prep Data Entered: 3/17/15 *ej*
Date and Initials

Initial Sequence: S50043E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1400948-01 A	<input checked="" type="checkbox"/>	SC-OWS-05-20141211-S	12-Dec-14 08:53	WR-2 E-6	
1400948-02 A	<input checked="" type="checkbox"/>	SC-CB-35-20141211-S	12-Dec-14 08:53	WR-2 E-6	
1400948-03 A	<input checked="" type="checkbox"/>	SC-CB-24-20141211-S	12-Dec-14 08:53	WR-2 E-6	

2g, 2x spike, 200 μ L FV

Vista PM: Martha Maier

Vial Box ID: SOUP

Sample Reconciled By: *Bridgeman* 3/12/15

Solids estimate

Batch: B4L0100

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400948-01	Percent Solids	27.08		2.00	7.39
1400948-02	Percent Solids	54.18		2.00	3.69
1400948-03	Percent Solids	41.63		2.00	4.80

PREPARATION BENCH SHEET

Matrix: Solid

B5C0059

Chemist: A. Clarke

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 12-Mar-15 12:37

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C5C0069	C5C0070	N/A	N/A	RS CHEM/WIT DATE
						AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	B5C0059-BLK1	2.00	(2.00)	DC/KB 3/12/15	ES 6ms 3/17/15	ES 3/17/15	ES 3/17/15	N/A	N/A	ES KB 3/17/15
<input type="checkbox"/>	B5C0059-BS1	2.00	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400915-02RE1	2.87	2.91	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400915-03RE1 (A)	11.08	11.13	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400915-04RE1	6.08	5.76	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400915-05RE1	5.47	5.35	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-01RE1	7.39	7.85	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-02RE1	3.69	3.49	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1400948-03RE1	4.80	4.57	↓	↓	↓	↓	↓	↓	↓

- (A) Analytes present at final volume ES 3/17/15
- (B) Precipitate present at FV. ES 3/17/15
- (C) 1:20 dilutions made per request. ES 5/17/15

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>KB 3/12/15</u>
PCDD/F <u>(A)</u>	PCDD/F <u>(A)</u>	PCDD/F <u>(A)</u>	PCDD/F <u>(A)</u>	Start Date/Time <u>3/12/15 16:00</u>	SOLV: <u>TOL</u>	Check In: <u>↓</u>
PCB <u>14D2901, 20mL</u>	PCB <u>14F1301, 20mL</u>	PCB <u>14D2903, 20mL</u>	PCB <u>14D2904, 20mL</u>	Stop Date/Time <u>3/13/15 8:00</u>	Other <u>N/A</u>	Balance ID: <u>HRMS-2</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>200µL</u>	<u>C9</u>	

Comments:

SAMPLE DATA
EPA Method 1668C

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n	NotF _η	1.19	*	3730	2.5	10.8	*	0.996-1.006	
Mono	PCB-2	*	*	n	NotF _η	1.18	*	3730	2.5	8.86	*	0.984-0.994	
Mono	PCB-3	*	*	n	NotF _η	1.43	*	3730	2.5	7.36	*	0.996-1.006	
Di	PCB-4/10	*	*	n	NotF _η	1.57	*	18000	2.5	34.6	*	0.997-1.007	
Di	PCB-7/9	*	*	n	NotF _η	1.21	*	18000	2.5	38.4	*	0.866-0.874	
Di	PCB-6	*	*	n	NotF _η	1.30	*	18000	2.5	35.6	*	0.890-0.899	
Di	PCB-5/8	*	*	n	NotF _η	1.15	*	18000	2.5	40.4	*	0.907-0.917	
Di	PCB-14	*	*	n	NotF _η	1.11	*	18000	2.5	37.5	*	0.949-0.959	
Di	PCB-11	*	*	n	NotF _η	1.09	*	18000	2.5	38.3	*	0.995-1.005	
Di	PCB-12/13	*	*	n	NotF _η	1.19	*	18000	2.5	34.9	*	1.011-1.021	
Di	PCB-15	*	*	n	NotF _η	1.28	*	18000	2.5	32.5	*	1.023-1.033	
Tri	PCB-19	*	*	n	NotF _η	1.04	*	2400	2.5	5.52	*	0.996-1.006	
Tri	PCB-30	*	*	n	NotF _η	1.71	*	2400	2.5	3.36	*	1.032-1.042	
Tri	PCB-18	*	*	n	NotF _η	0.78	*	2400	2.5	4.79	*	0.949-0.959	
Tri	PCB-17	*	*	n	NotF _η	0.92	*	2400	2.5	4.06	*	0.956-0.966	
Tri	PCB-24/27	*	*	n	NotF _η	1.19	*	2400	2.5	3.15	*	0.977-0.987	
Tri	PCB-16/32	*	*	n	NotF _η	0.94	*	2400	2.5	3.98	*	0.995-1.005	
Tri	PCB-34	*	*	n	NotF _η	1.14	*	2380	2.5	3.37	*	0.955-0.965	
Tri	PCB-23	*	*	n	NotF _η	1.28	*	2380	2.5	2.99	*	0.959-0.969	
Tri	PCB-29	*	*	n	NotF _η	1.08	*	2380	2.5	3.55	*	0.967-0.977	
Tri	PCB-26	*	*	n	NotF _η	1.21	*	2380	2.5	3.17	*	0.974-0.984	
Tri	PCB-25	*	*	n	NotF _η	1.26	*	2380	2.5	3.04	*	0.979-0.989	
Tri	PCB-31	*	*	n	NotF _η	1.28	*	2380	2.5	2.98	*	0.992-1.002	
Tri	PCB-28	*	*	n	NotF _η	1.71	*	2380	2.5	2.24	*	0.995-1.005	
Tri	PCB-20/21/33	*	*	n	NotF _η	1.08	*	2380	2.5	3.54	*	1.017-1.027	
Tri	PCB-22	*	*	n	NotF _η	1.21	*	2380	2.5	3.17	*	1.032-1.042	
Tri	PCB-36	*	*	n	NotF _η	1.14	*	2380	2.5	3.39	*	0.928-0.938	
Tri	PCB-39	*	*	n	NotF _η	1.12	*	2380	2.5	3.47	*	0.943-0.953	
Tri	PCB-38	*	*	n	NotF _η	1.20	*	2380	2.5	3.23	*	0.966-0.976	
Tri	PCB-35	*	*	n	NotF _η	1.23	*	2380	2.5	3.14	*	0.982-0.992	
Tri	PCB-37	*	*	n	NotF _η	1.23	*	2380	2.5	3.15	*	0.995-1.005	
Tetra	PCB-54	*	*	n	NotF _η	1.10	*	2160	2.5	3.73	*	0.996-1.006	
Tetra	PCB-50	*	*	n	NotF _η	0.88	*	2160	2.5	4.67	*	1.037-1.047	
Tetra	PCB-53	*	*	n	NotF _η	1.06	*	2160	2.5	4.20	*	0.942-0.952	
Tetra	PCB-51	*	*	n	NotF _η	0.99	*	2160	2.5	4.51	*	0.952-0.962	
Tetra	PCB-45	*	*	n	NotF _η	0.86	*	2160	2.5	5.17	*	0.966-0.976	
Tetra	PCB-46	*	*	n	NotF _η	0.85	*	2160	2.5	5.29	*	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 3/26/15

Reviewed by: [Signature] Date: 3/27/15

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	*	n NotF η	1.28	*		2160	2.5	3.49	*	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.35	*		2160	2.5	3.30	*	1.000-1.010	
Tetra	PCB-43/49	*	*	n NotF η	0.99	*		2160	2.5	4.49	*	1.005-1.015	
Tetra	PCB-47	*	*	n NotF η	1.06	*		2160	2.5	4.05	*	0.996-1.006	
Tetra	PCB-48/75	*	*	n NotF η	1.23	*		2160	2.5	3.49	*	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.22	*		2160	2.5	3.50	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF η	1.22	*		2160	2.5	3.51	*	1.011-1.021	
Tetra	PCB-44	*	*	n NotF η	0.86	*		2160	2.5	4.98	*	1.021-1.031	
Tetra	PCB-42/59	*	*	n NotF η	1.14	*		2160	2.5	3.77	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	*	n NotF η	1.21	*		2160	2.5	3.55	*	1.046-1.056	
Tetra	PCB-68	*	*	n NotF η	1.35	*		2160	2.5	3.18	*	1.054-1.064	
Tetra	PCB-40	*	*	n NotF η	0.70	*		2160	2.5	6.11	*	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	0.98	*		2160	2.5	3.45	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF η	1.11	*		2160	2.5	3.05	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	0.93	*		2160	2.5	3.64	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF η	0.95	*		2160	2.5	3.54	*	0.982-0.992	
Tetra	PCB-74	*	*	n NotF η	1.24	*		2160	2.5	2.71	*	0.990-1.000	
Tetra	PCB-61/70	*	*	n NotF η	0.95	*		2160	2.5	3.54	*	0.995-1.005	
Tetra	PCB-76/66	*	*	n NotF η	1.04	*		2160	2.5	3.23	*	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.19	*		2160	2.5	2.68	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotF η	1.04	*		2160	2.5	3.07	*	1.005-1.015	
Tetra	PCB-56/60	*	*	n NotF η	1.01	*		2160	2.5	3.17	*	1.019-1.029	
Tetra	PCB-79	*	*	n NotF η	1.08	*		2160	2.5	2.96	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.27	*		2160	2.5	2.64	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotF η	1.33	*		2160	2.5	2.52	*	0.995-1.005	
Tetra	PCB-77	*	*	n NotF η	1.10	*		2160	2.5	3.10	*	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.18	*		2240	2.5	8.47	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF η	1.14	*		2240	2.5	8.81	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF η	0.96	*		2240	2.5	10.5	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF η	0.94	*		2240	2.5	10.7	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF η	1.06	*		2240	2.5	12.2	*	0.980-0.990	
Penta	PCB-95/98/102	*	*	n NotF η	1.22	*		2240	2.5	10.5	*	0.995-1.005	
Penta	PCB-93	*	*	n NotF η	0.84	*		2240	2.5	15.2	*	0.997-1.007	
Penta	PCB-88/91	*	*	n NotF η	1.12	*		2240	2.5	11.5	*	1.005-1.015	
Penta	PCB-121	*	*	n NotF η	1.62	*		2240	2.5	7.95	*	1.009-1.019	
Penta	PCB-84/92	*	*	n NotF η	1.05	*		2240	2.5	11.2	*	0.985-0.995	
Penta	PCB-89	*	*	n NotF η	1.13	*		2240	2.5	10.4	*	0.991-1.001	

Analyst: Dms

Date: 3/26/15

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	* n	NotF η	1.10	*		2240	2.5	10.6	*	0.995-1.005	
Penta	PCB-113	*	* n	NotF η	1.41	*		2240	2.5	8.31	*	1.002-1.012	
Penta	PCB-99	*	* n	NotF η	1.34	*		2240	2.5	8.77	*	1.004-1.014	
Penta	PCB-119	*	* n	NotF η	1.53	*		2240	2.5	8.42	*	0.982-0.992	
Penta	PCB-108/112	*	* n	NotF η	1.28	*		2240	2.5	10.1	*	0.986-0.996	
Penta	PCB-83	*	* n	NotF η	1.52	*		2240	2.5	8.49	*	0.990-1.000	
Penta	PCB-97	*	* n	NotF η	1.18	*		2240	2.5	10.9	*	0.995-1.005	
Penta	PCB-86	*	* n	NotF η	0.84	*		2240	2.5	15.3	*	0.999-1.009	
Penta	PCB-87/117/125	*	* n	NotF η	1.55	*		2240	2.5	8.32	*	1.002-1.012	
Penta	PCB-111/115	*	* n	NotF η	1.63	*		2240	2.5	7.90	*	1.006-1.016	
Penta	PCB-85/116	*	* n	NotF η	1.30	*		2240	2.5	9.90	*	1.010-1.020	
Penta	PCB-120	*	* n	NotF η	1.68	*		2240	2.5	7.69	*	1.016-1.026	
Penta	PCB-110	*	* n	NotF η	1.56	*		2240	2.5	8.29	*	1.020-1.030	
Penta	PCB-82	*	* n	NotF η	0.76	*		2240	2.5	13.1	*	0.971-0.981	
Penta	PCB-124	*	* n	NotF η	1.47	*		2240	2.5	6.78	*	0.988-0.998	
Penta	PCB-107/109	*	* n	NotF η	1.32	*		2240	2.5	7.54	*	0.991-1.001	
Penta	PCB-123	*	* n	NotF η	1.17	*		2240	2.5	8.53	*	0.996-1.006	
Penta	PCB-106/118	*	* n	NotF η	1.17	*		2240	2.5	7.90	*	0.996-1.006	
Penta	PCB-114	*	* n	NotF η	1.30	*		2090	2.5	4.59	*	0.995-1.005	
Penta	PCB-122	*	* n	NotF η	1.12	*		2090	2.5	5.31	*	0.999-1.009	
Penta	PCB-105	*	* n	NotF η	1.30	*		2090	2.5	4.50	*	0.995-1.005	
Penta	PCB-127	*	* n	NotF η	1.33	*		2090	2.5	4.09	*	0.996-1.006	
Penta	PCB-126	*	* n	NotF η	1.18	*		2090	2.5	5.23	*	0.995-1.005	
Hexa	PCB-155	*	* n	NotF η	1.11	*		1780	2.5	8.59	*	0.966-1.006	
Hexa	PCB-150	*	* n	NotF η	1.00	*		1780	2.5	9.58	*	1.030-1.040	
Hexa	PCB-152	*	* n	NotF η	1.12	*		1780	2.5	8.57	*	1.043-1.053	
Hexa	PCB-145	*	* n	NotF η	1.20	*		1780	2.5	7.96	*	1.055-1.065	
Hexa	PCB-136	*	* n	NotF η	1.18	*		1780	2.5	8.12	*	1.064-1.074	
Hexa	PCB-148	*	* n	NotF η	0.74	*		1780	2.5	12.9	*	1.066-1.076	
Hexa	PCB-154	*	* n	NotF η	0.86	*		1780	2.5	11.1	*	1.080-1.090	
Hexa	PCB-151	*	* n	NotF η	0.75	*		1780	2.5	12.8	*	1.097-1.107	
Hexa	PCB-135	*	* n	NotF η	0.79	*		1780	2.5	12.1	*	1.103-1.113	
Hexa	PCB-144	*	* n	NotF η	0.76	*		1780	2.5	12.6	*	1.105-1.117	
Hexa	PCB-147	*	* n	NotF η	0.82	*		1780	2.5	11.7	*	1.109-1.121	
Hexa	PCB-139/149	*	* n	NotF η	0.76	*		1780	2.5	12.6	*	1.116-1.128	
Hexa	PCB-140	*	* n	NotF η	0.72	*		1780	2.5	13.2	*	1.121-1.133	
Hexa	PCB-134/143	*	* n	NotF η	0.92	*		1540	2.5	5.23	*	0.970-0.980	

Analyst: Dms

Date: 3/26/15

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	* n	NotF η	0.82	*		1540	2.5	5.85	*	0.977-0.987	
Hexa	PCB-131	*	* n	NotF η	0.91	*		1540	2.5	5.28	*	0.981-0.991	
Hexa	PCB-146/165	*	* n	NotF η	1.25	*		1540	2.5	3.85	*	0.986-0.996	
Hexa	PCB-132/161	*	* n	NotF η	1.10	*		1540	2.5	4.34	*	0.992-1.002	
Hexa	PCB-153	*	* n	NotF η	1.25	*		1540	2.5	3.84	*	0.995-1.005	
Hexa	PCB-168	*	* n	NotF η	1.45	*		1540	2.5	3.31	*	1.001-1.011	
Hexa	PCB-141	*	* n	NotF η	1.09	*		1540	2.5	4.65	*	0.995-1.005	
Hexa	PCB-137	*	* n	NotF η	1.06	*		1540	2.5	4.75	*	1.004-1.014	
Hexa	PCB-130	*	* n	NotF η	0.96	*		1540	2.5	5.23	*	1.006-1.016	
Hexa	PCB-138/163/164	5.97e+04	1.25	y 44:47	1.29	5.41	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	*	* n	NotF η	1.34	*		1540	2.5	3.86	*	1.001-1.011	
Hexa	PCB-129	*	* n	NotF η	0.85	*		1540	2.5	6.07	*	1.007-1.017	
Hexa	PCB-166	*	* n	NotF η	1.19	*		1540	2.5	3.54	*	0.988-0.998	
Hexa	PCB-159	*	* n	NotF η	1.11	*		1540	2.5	3.77	*	0.996-1.006	
Hexa	PCB-128/162	*	* n	NotF η	1.05	*		1540	2.5	4.01	*	1.002-1.012	
Hexa	PCB-167	*	* n	NotF η	1.20	*		1540	2.5	3.32	*	0.995-1.005	
Hexa	PCB-156	*	* n	NotF η	1.14	*		1540	2.5	3.55	*	0.996-1.006	
Hexa	PCB-157	*	* n	NotF η	1.16	*		1540	2.5	3.44	*	0.995-1.005	
Hexa	PCB-169	*	* n	NotF η	1.12	*		1540	2.5	3.44	*	0.995-1.005	
Hepta	PCB-188	*	* n	NotF η	1.58	*		1400	2.5	2.59	*	0.996-1.006	
Hepta	PCB-184	*	* n	NotF η	1.63	*		1400	2.5	2.51	*	1.006-1.016	
Hepta	PCB-179	*	* n	NotF η	1.30	*		1400	2.5	3.14	*	1.024-1.034	
Hepta	PCB-176	*	* n	NotF η	1.48	*		1400	2.5	2.77	*	1.035-1.045	
Hepta	PCB-186	*	* n	NotF η	1.45	*		1400	2.5	2.81	*	1.050-1.060	
Hepta	PCB-178	*	* n	NotF η	1.03	*		1400	2.5	3.95	*	1.061-1.071	
Hepta	PCB-175	*	* n	NotF η	1.01	*		1400	2.5	4.04	*	1.069-1.079	
Hepta	PCB-182/187	*	* n	NotF η	1.25	*		1400	2.5	3.27	*	1.073-1.083	
Hepta	PCB-183	*	* n	NotF η	1.21	*		1400	2.5	3.38	*	1.081-1.091	
Hepta	PCB-185	*	* n	NotF η	1.80	*		1400	2.5	3.03	*	0.951-0.961	
Hepta	PCB-174	*	* n	NotF η	1.38	*		1400	2.5	3.96	*	0.958-0.968	
Hepta	PCB-181	*	* n	NotF η	1.38	*		1400	2.5	3.95	*	0.960-0.970	
Hepta	PCB-177	*	* n	NotF η	1.26	*		1400	2.5	4.34	*	0.963-0.973	
Hepta	PCB-171	*	* n	NotF η	1.58	*		1400	2.5	3.45	*	0.970-0.980	
Hepta	PCB-173	*	* n	NotF η	1.11	*		1400	2.5	4.92	*	0.978-0.988	
Hepta	PCB-172	*	* n	NotF η	1.63	*		1400	2.5	3.34	*	0.987-0.997	
Hepta	PCB-192	*	* n	NotF η	1.74	*		1400	2.5	3.13	*	0.991-1.001	
Hepta	PCB-180	*	* n	NotF η	1.34	*		1400	2.5	4.06	*	0.995-1.005	

Analyst: *Dms*

Date: *3/26/15*

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	* n	NotF η	1.72	*		1400	2.5	3.18	*	0.999-1.009	
Hepta	PCB-191	*	* n	NotF η	1.69	*		1400	2.5	3.22	*	1.004-1.014	
Hepta	PCB-170	*	* n	NotF η	1.60	*		1400	2.5	3.79	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotF η	2.21	*		1400	2.5	2.74	*	0.998-1.008	
Hepta	PCB-189	*	* n	NotF η	1.55	*		1400	2.5	2.57	*	0.995-1.005	
Octa	PCB-202	*	* n	NotF η	1.08	*		1500	2.5	6.52	*	0.995-1.005	
Octa	PCB-201	*	* n	NotF η	1.15	*		1500	2.5	6.14	*	1.005-1.015	
Octa	PCB-204	*	* n	NotF η	1.14	*		1500	2.5	6.20	*	1.008-1.018	
Octa	PCB-197	*	* n	NotF η	1.07	*		1500	2.5	6.57	*	1.015-1.025	
Octa	PCB-200	*	* n	NotF η	1.06	*		1500	2.5	6.64	*	1.032-1.044	
Octa	PCB-198	*	* n	NotF η	0.76	*		1500	2.5	9.35	*	1.059-1.069	
Octa	PCB-199	*	* n	NotF η	0.80	*		1500	2.5	8.85	*	1.061-1.071	
Octa	PCB-196/203	*	* n	NotF η	0.80	*		1500	2.5	8.81	*	1.066-1.076	
Octa	PCB-195	*	* n	NotF η	1.23	*		1360	2.5	2.65	*	0.979-0.989	
Octa	PCB-194	*	* n	NotF η	1.21	*		1360	2.5	2.68	*	0.995-1.005	
Octa	PCB-205	*	* n	NotF η	1.54	*		1360	2.5	2.11	*	1.001-1.011	
Nona	PCB-208	*	* n	NotF η	0.93	*		1200	2.5	2.24	*	0.995-1.005	
Nona	PCB-207	*	* n	NotF η	1.08	*		1200	2.5	1.93	*	1.001-1.011	
Nona	PCB-206	*	* n	NotF η	1.02	*		1200	2.5	3.36	*	0.995-1.005	
Deca	PCB-209	2.80e+04	0.96	n	56:49	1.17	4.10	R	* 2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 3/26/15

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.0000 EndCAL: NA

Page 3 of

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	*	* n	NotFnd	1.27	*
Total Di-PCB	*	* n	NotFnd	1.21	*
Total Tri-PCB	*	* n	NotFnd	1.10	*
Total Tri-PCB	*	* n	NotFnd	1.21	* Sum:0.00000
Total Tetra-PCB	*	* n	NotFnd	1.09	*
Total Penta-PCB	*	* n	NotFnd	1.18	*
Total Penta-PCB	*	* n	NotFnd	1.25	* Sum:0.00000
Total Hexa-PCB	*	* n	NotFnd	0.90	*
Total Hexa-PCB	5.97e+04	1.25 y	44:47	1.11	5.40708 Sum:5.40708
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	2.80e+04	0.96 n	56:49	1.17	4.10166

Total PCB Conc:9.50874300000

Integrations

by

Analyst: DMS

Date: 3/26/15

Client ID: Method Blank
Lab ID: B5C0059-BLK1

Filename: 150318E1 S:4 Acq:18-MAR-15 13:13:08
GC Column ID: ZB-1 ICAL: PCBVG8-6-23-14 wt/vol:2.0000

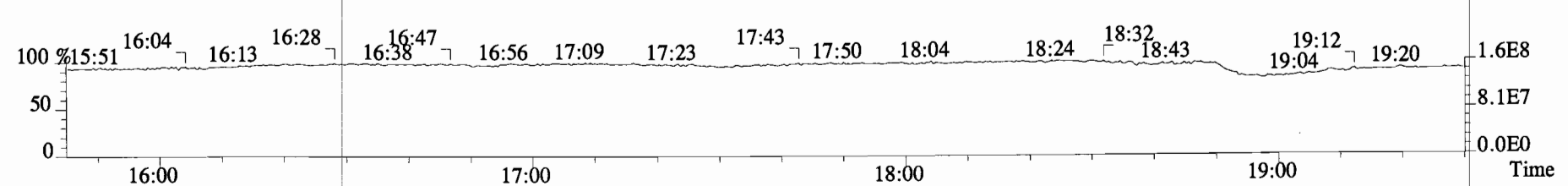
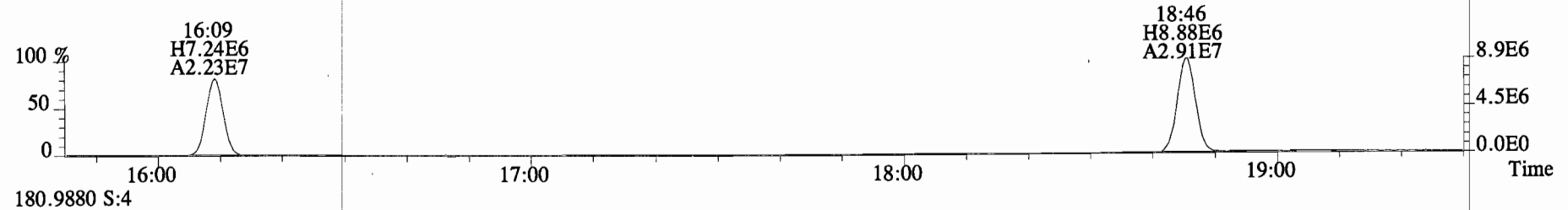
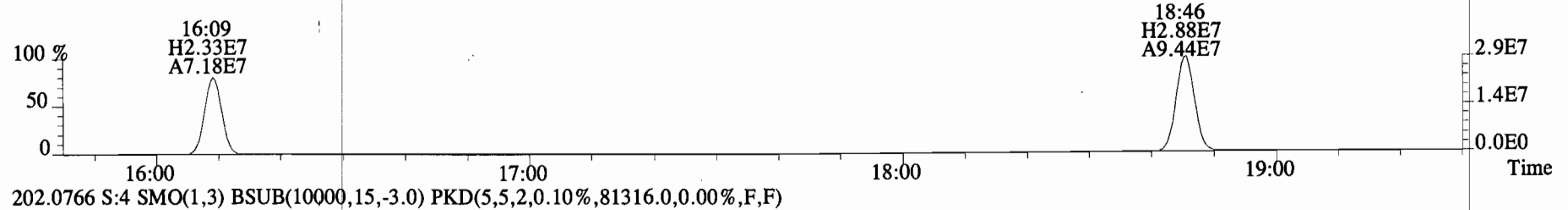
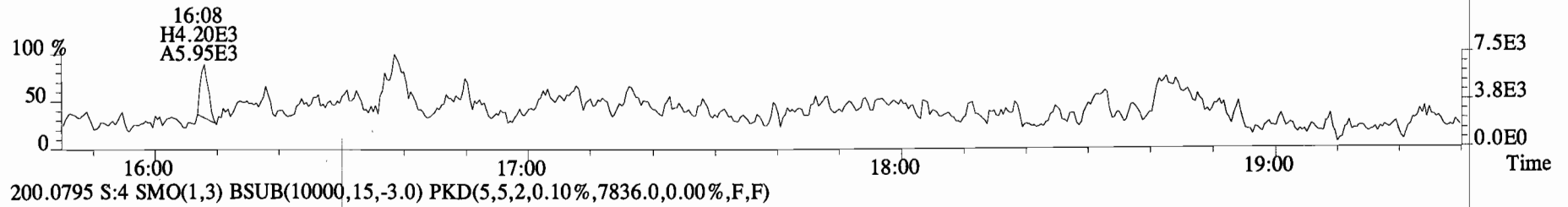
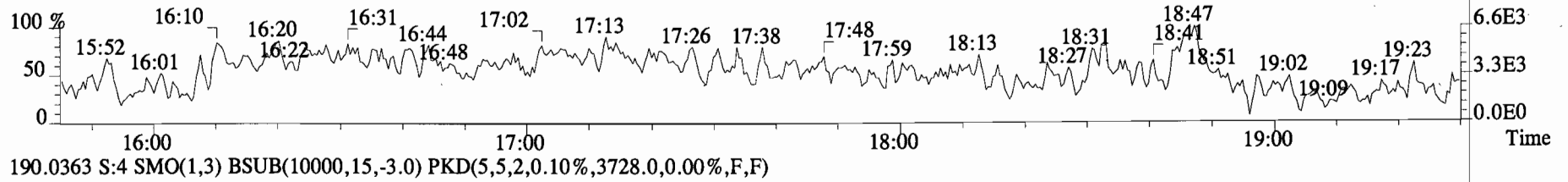
ConCal: ST150318E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	9.41e+07	3.22	y	0.87	16:09	0.623	0.629-0.635	5000	50.0											
13C-PCB-3	1.23e+08	3.24	y	0.91	18:46	0.724	0.725-0.733	6280	62.8		13C-PCB-79	1.53e+08	0.79	y	1.02	37:48	1.029	1.023-1.034	9250	92.5
13C-PCB-4	7.69e+07	1.60	y	0.59	20:05	0.774	0.775-0.783	6080	60.8		13C-PCB-178	4.10e+07	0.48	y	0.61	45:36	0.985	0.979-0.990	7830	78.3
13C-PCB-9	1.32e+08	1.60	y	0.90	21:52	0.843	0.842-0.850	6830	68.3											
13C-PCB-11	1.56e+08	1.58	y	0.94	25:14	0.973	0.968-0.978	7710	77.1											
13C-PCB-19	8.19e+07	1.07	y	0.53	24:13	0.934	0.930-0.940	7140	71.4											
13C-PCB-28	1.51e+08	1.08	y	0.93	29:05	1.003	0.999-1.009	8830	88.3											
13C-PCB-32	1.33e+08	1.10	y	0.80	27:08	1.046	1.040-1.050	7730	77.3											
13C-PCB-37	1.54e+08	1.08	y	0.84	32:57	1.137	1.131-1.143	9990	99.9											
13C-PCB-47	1.06e+08	0.79	y	0.81	31:59	0.871	0.866-0.874	8040	80.4											
13C-PCB-52	1.02e+08	0.80	y	0.77	31:29	0.857	0.853-0.861	8170	81.7											
13C-PCB-54	1.12e+08	0.84	y	0.97	27:58	0.761	0.758-0.766	7130	71.3											
13C-PCB-70	1.42e+08	0.80	y	1.00	35:30	0.966	0.961-0.971	8750	87.5											
13C-PCB-77	1.41e+08	0.79	y	0.94	39:36	1.078	1.073-1.083	9220	92.2											
13C-PCB-80	1.48e+08	0.80	y	1.03	35:55	0.978	0.972-0.982	8820	88.2											
13C-PCB-81	1.40e+08	0.80	y	0.92	39:01	1.062	1.057-1.067	9340	93.4											
13C-PCB-95	5.48e+07	1.62	y	0.74	35:48	0.913	0.908-0.918	8770	87.7											
13C-PCB-97	5.52e+07	1.60	y	0.70	38:46	0.989	0.984-0.994	9280	92.8											
13C-PCB-101	5.99e+07	1.62	y	0.78	37:29	0.956	0.951-0.961	9050	90.5											
13C-PCB-104	6.98e+07	1.62	y	1.00	32:39	0.833	0.828-0.836	8260	82.6											
13C-PCB-105	1.16e+08	1.58	y	1.37	43:02	0.929	0.924-0.934	9930	99.3											
13C-PCB-114	1.14e+08	1.62	y	1.36	42:10	0.911	0.905-0.915	9810	98.1											
13C-PCB-118	7.71e+07	1.59	y	0.96	41:31	1.059	1.054-1.064	9530	95.3											
13C-PCB-123	7.38e+07	1.65	y	0.89	41:20	1.054	1.050-1.060	9770	97.7											
13C-PCB-126	1.14e+08	1.63	y	1.31	45:15	0.977	0.972-0.982	10200	102											
13C-PCB-127	1.25e+08	1.64	y	1.47	43:21	0.936	0.931-0.941	9970	99.7											
13C-PCB-138	8.54e+07	1.32	y	1.10	44:45	0.967	0.961-0.971	9100	91.0											
13C-PCB-141	8.45e+07	1.28	y	1.07	43:55	0.949	0.943-0.953	9210	92.1											
13C-PCB-153	9.01e+07	1.31	y	1.15	43:11	0.933	0.927-0.937	9210	92.1											
13C-PCB-155	5.13e+07	1.28	y	0.84	37:01	0.944	0.939-0.949	7230	72.3											
13C-PCB-156	1.07e+08	1.29	y	1.30	48:00	1.037	1.032-1.042	9660	96.6											
13C-PCB-157	1.09e+08	1.28	y	1.36	48:16	1.042	1.038-1.048	9440	94.4											
13C-PCB-159	1.03e+08	1.28	y	1.25	46:02	0.994	0.989-0.999	9680	96.8											
13C-PCB-167	1.11e+08	1.29	y	1.35	46:43	1.009	1.004-1.014	9580	95.8											
13C-PCB-169	1.02e+08	1.26	y	1.29	50:26	1.089	1.083-1.093	9300	93.0											
13C-PCB-170	3.74e+07	0.48	y	0.54	50:48	1.097	1.089-1.101	8090	80.9											
13C-PCB-180	4.62e+07	0.48	y	0.68	49:17	1.064	1.060-1.070	7910	79.1											
13C-PCB-188	6.16e+07	0.46	y	0.92	42:49	0.925	0.919-0.929	7870	78.7											
13C-PCB-189	5.22e+07	0.47	y	0.72	52:18	1.130	1.120-1.132	8550	85.5											
13C-PCB-194	6.95e+07	0.92	y	0.80	53:49	0.995	0.990-1.000	9040	90.4											
13C-PCB-202	4.96e+07	0.94	y	0.84	48:13	1.041	1.036-1.046	6940	69.4											
13C-PCB-206	5.87e+07	0.79	y	0.65	55:26	1.025	1.021-1.031	9370	93.7											
13C-PCB-208	8.76e+07	0.78	y	1.08	53:05	0.982	0.976-0.986	8410	84.1											
13C-PCB-209	5.83e+07	1.21	y	0.61	56:48	1.050	1.045-1.055	9900	99.0											

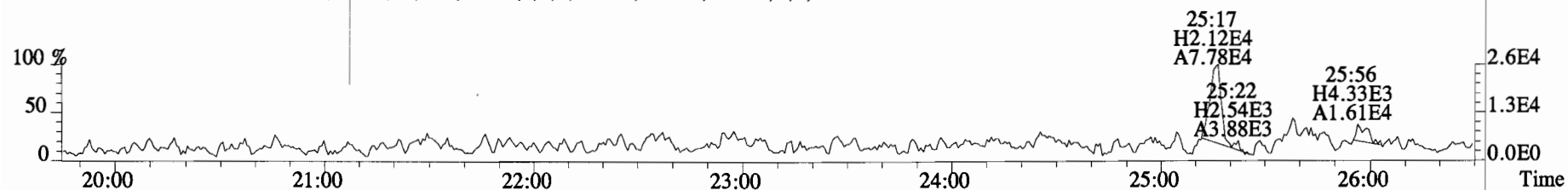
Analyst: DMS

Date: 3/26/15

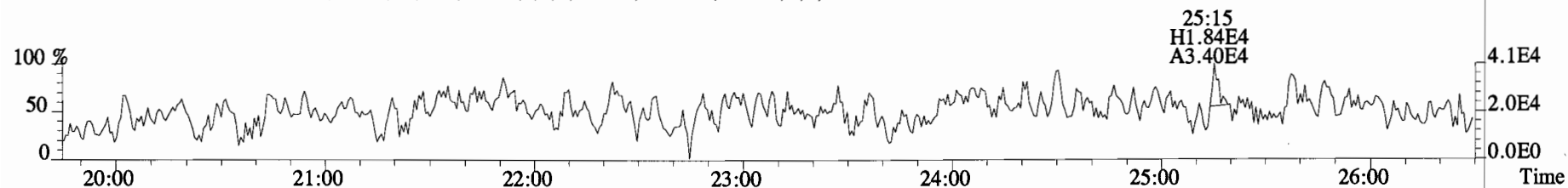
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4496.0,0.00%,F,F)



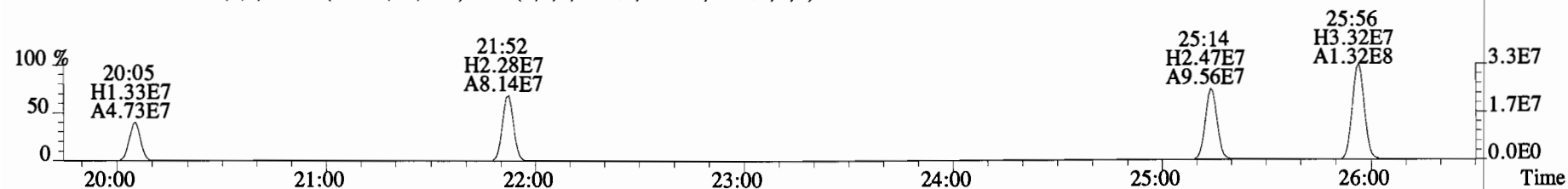
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4960.0,0.00%,F,F)



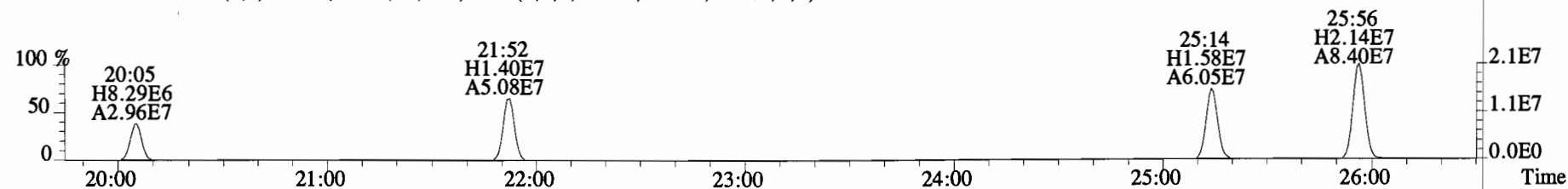
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,26180.0,0.00%,F,F)



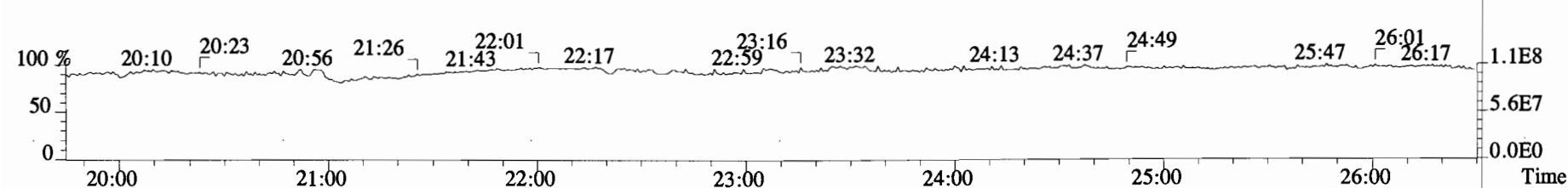
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5508.0,0.00%,F,F)



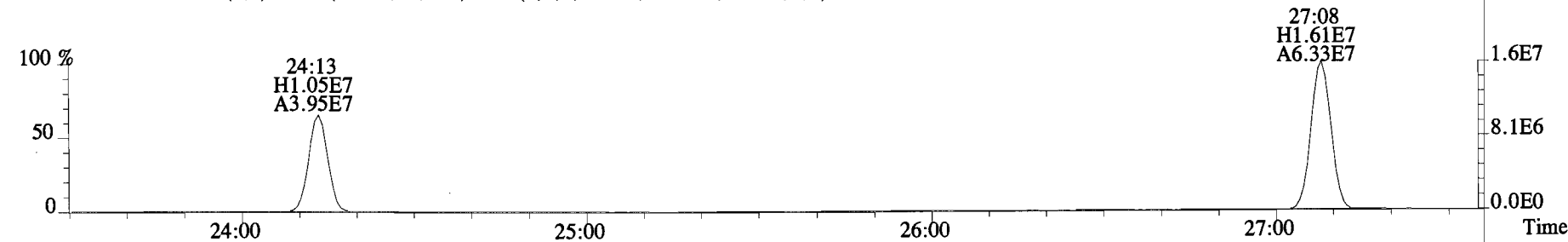
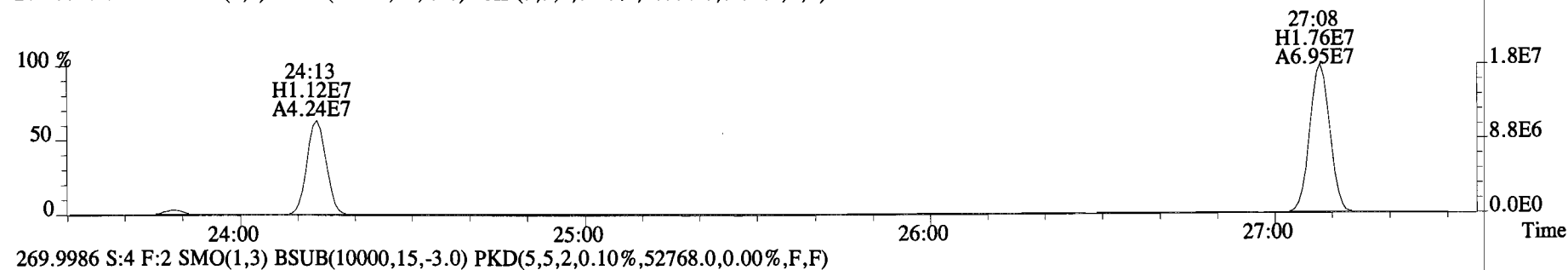
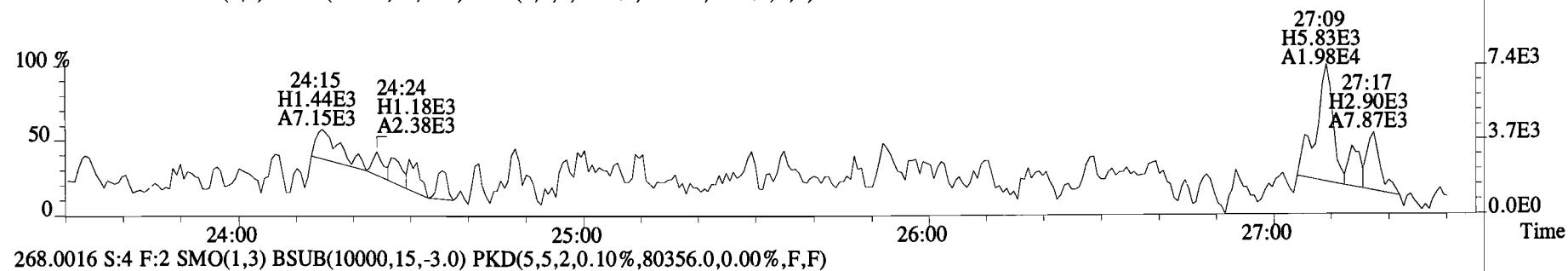
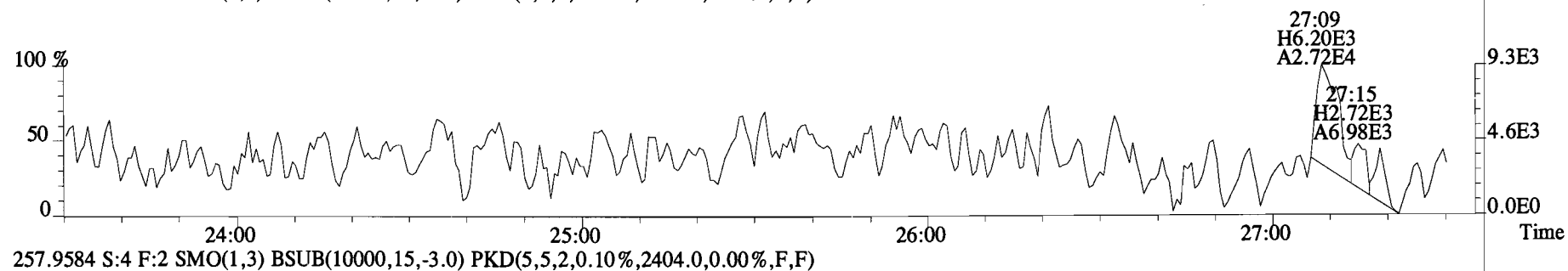
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4596.0,0.00%,F,F)



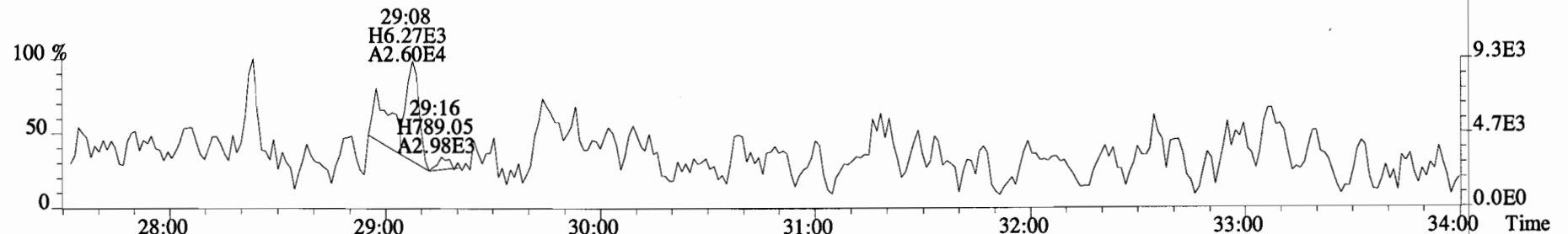
239.9856 S:4 F:2



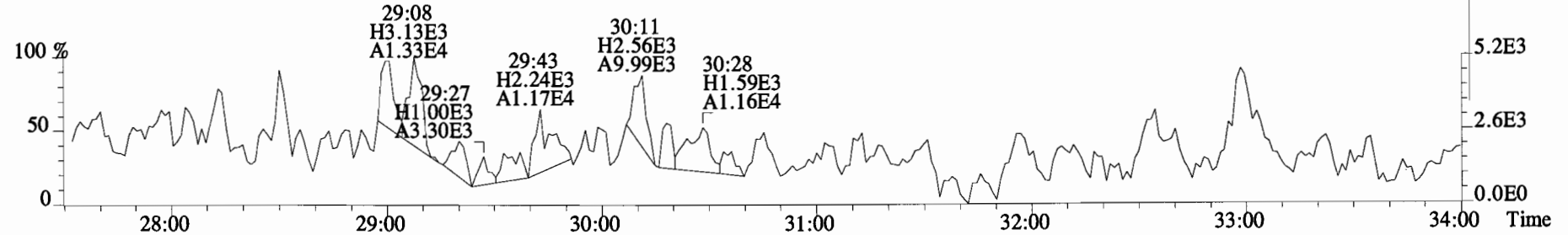
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255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4688.0,0.00%,F,F)



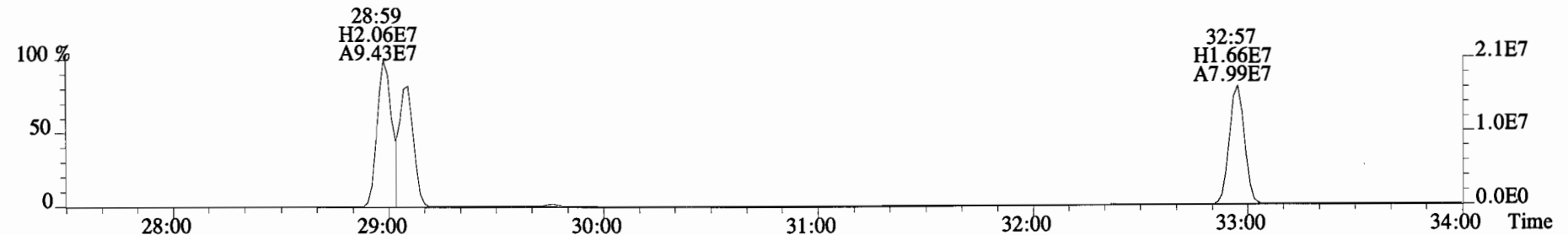
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
 255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4092.0,0.00%,F,F)



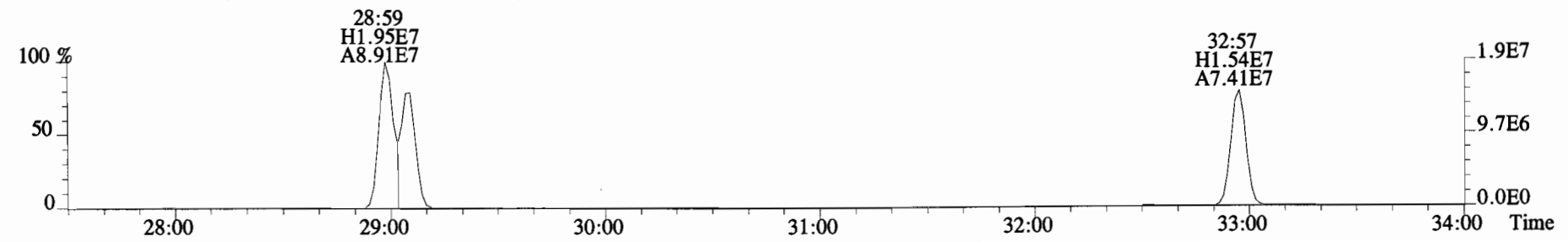
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2380.0,0.00%,F,F)



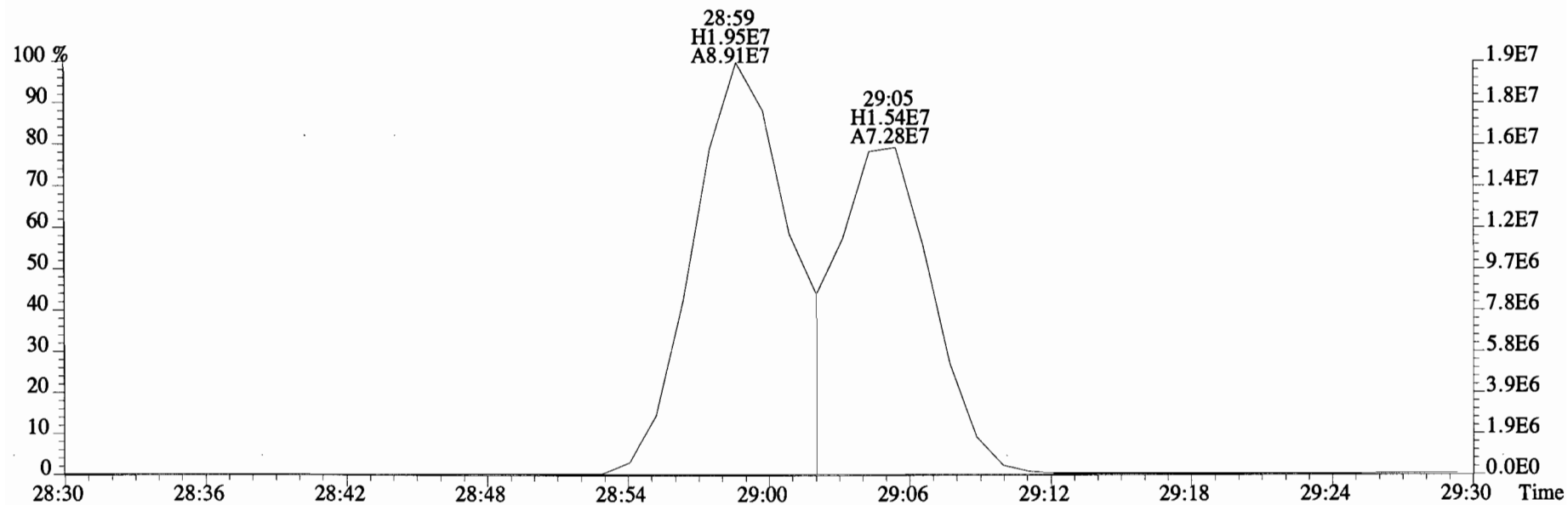
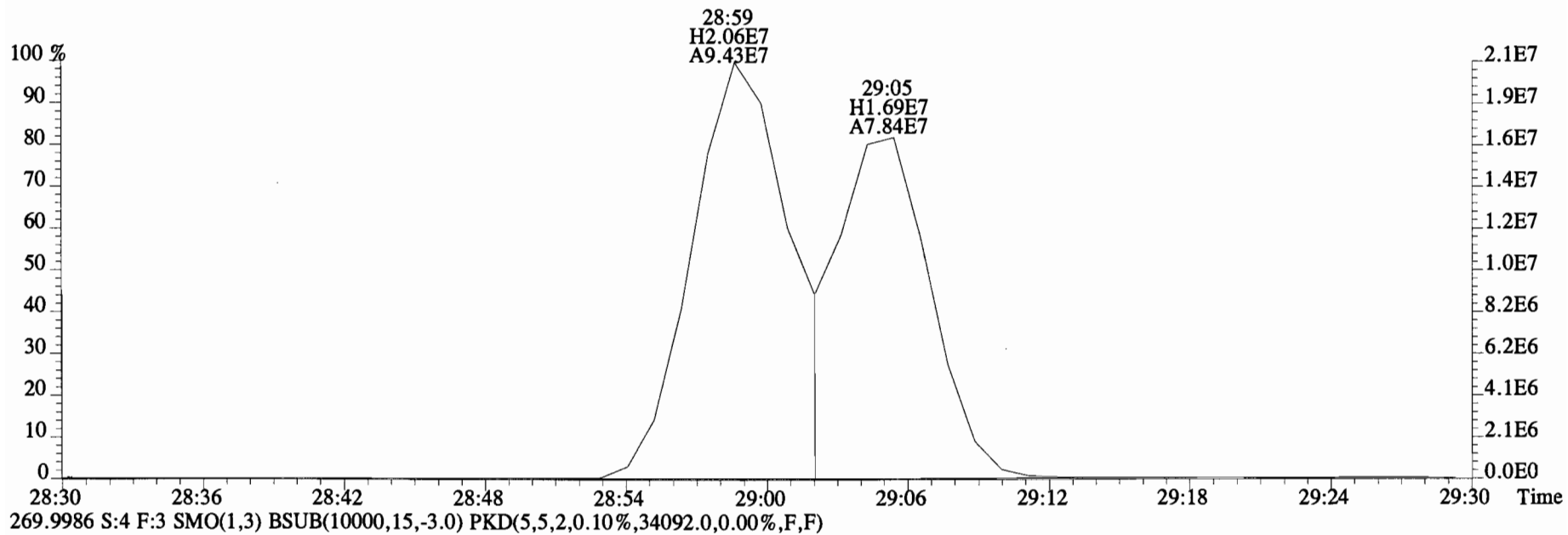
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,47564.0,0.00%,F,F)



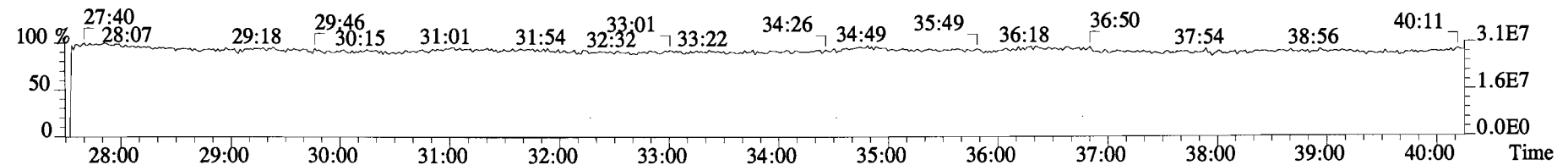
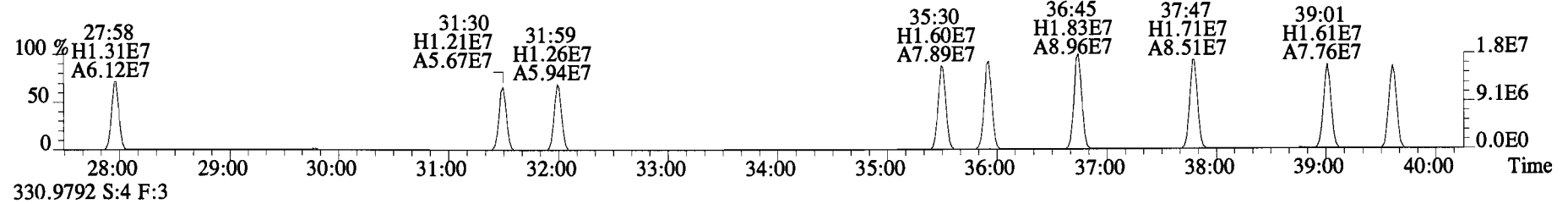
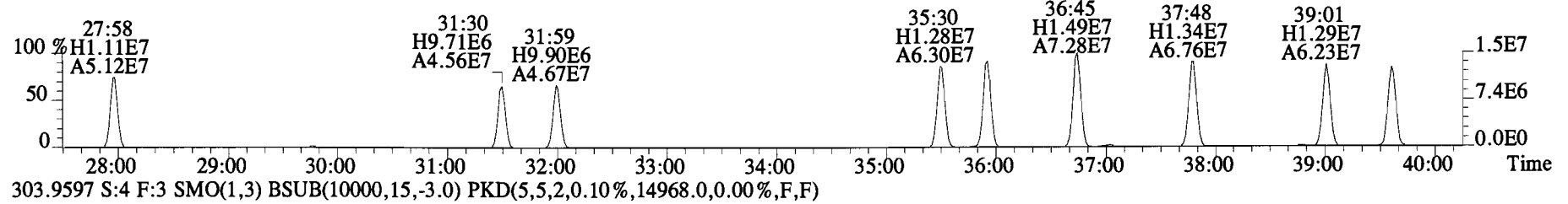
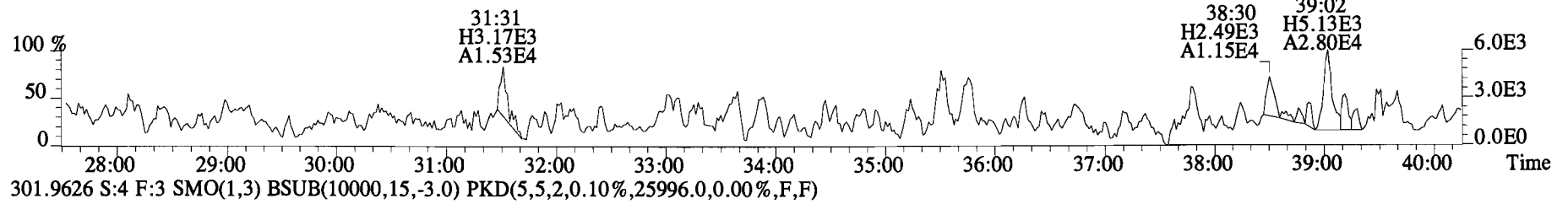
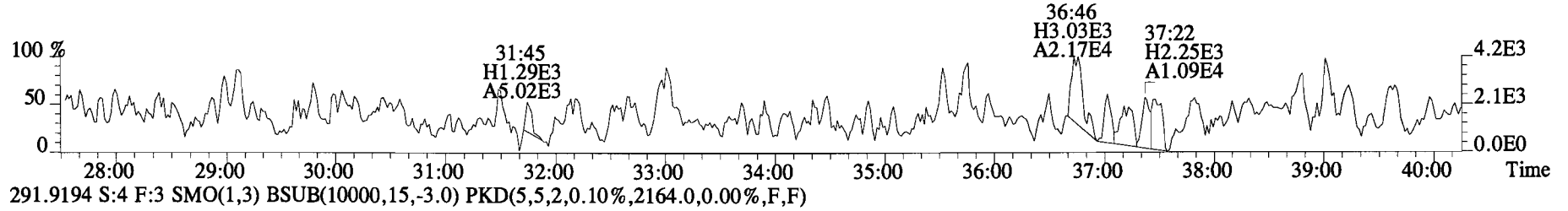
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,34092.0,0.00%,F,F)



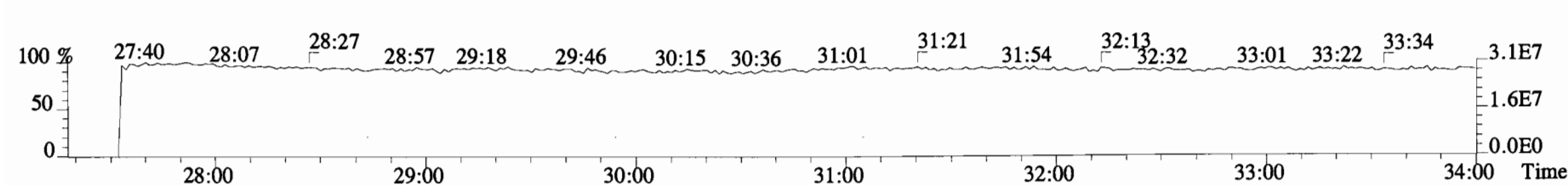
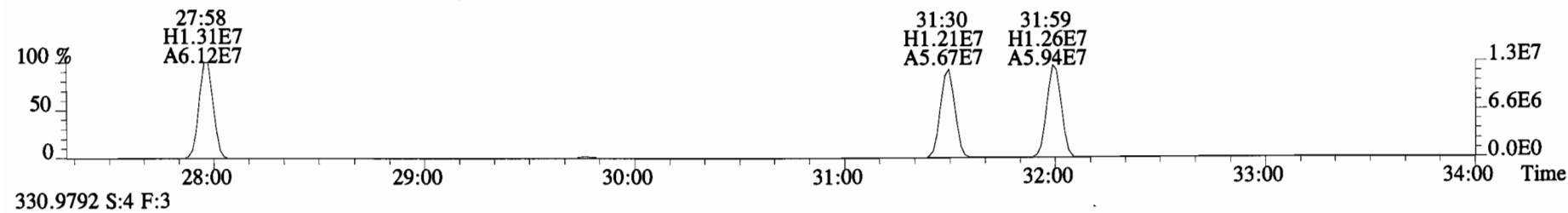
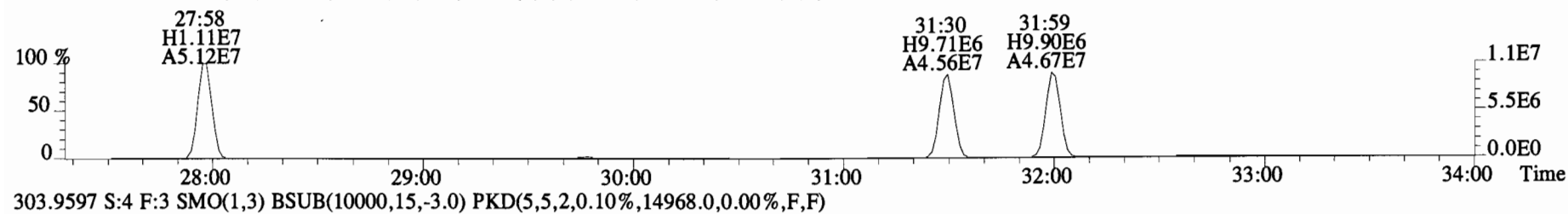
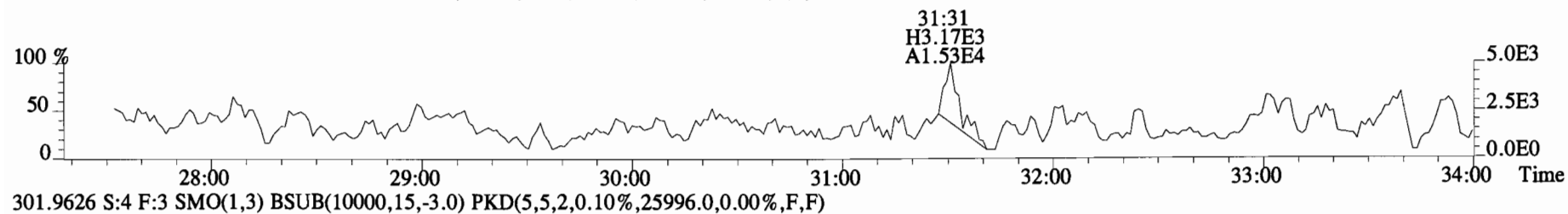
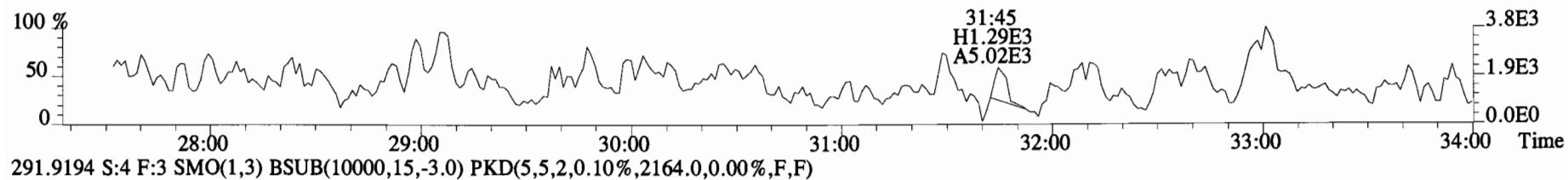
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,47564.0,0.00%,F,F)



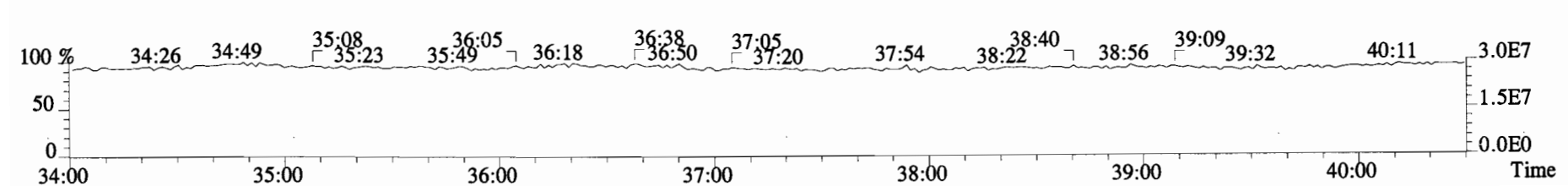
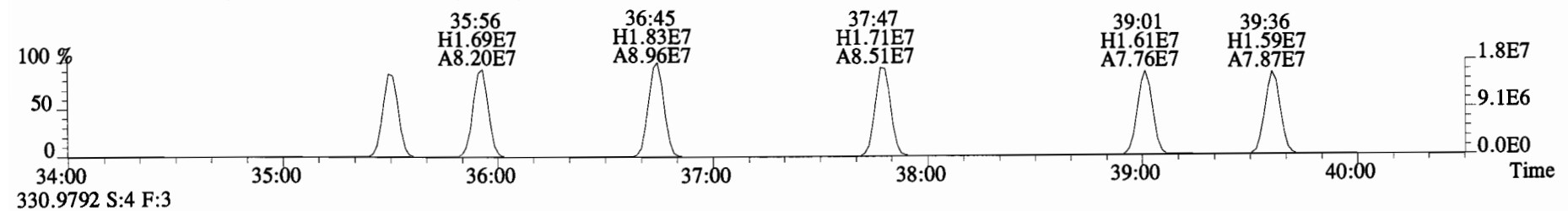
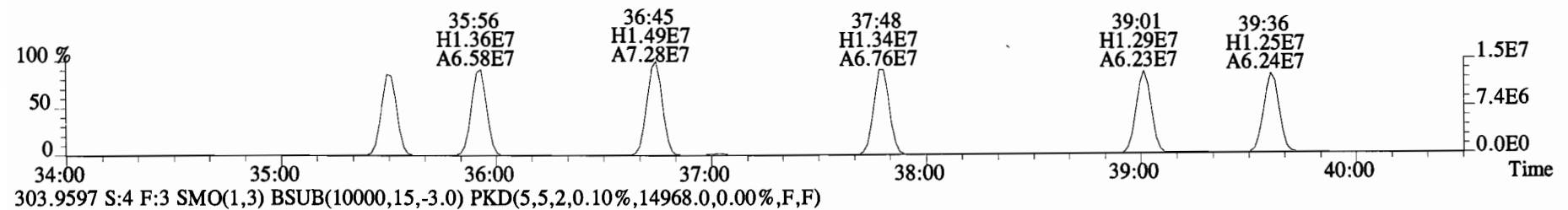
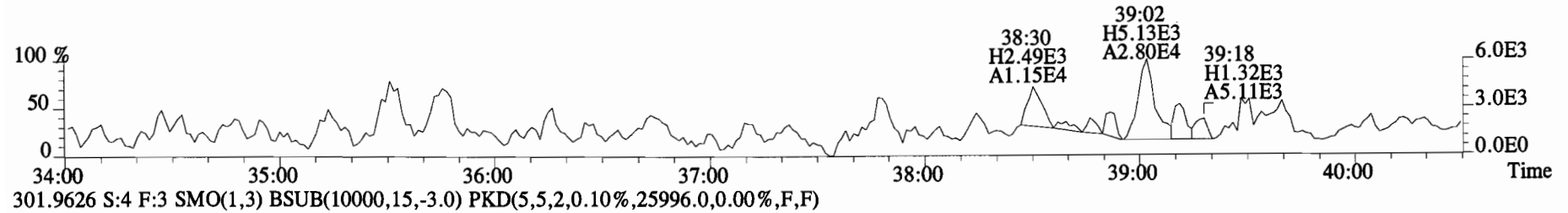
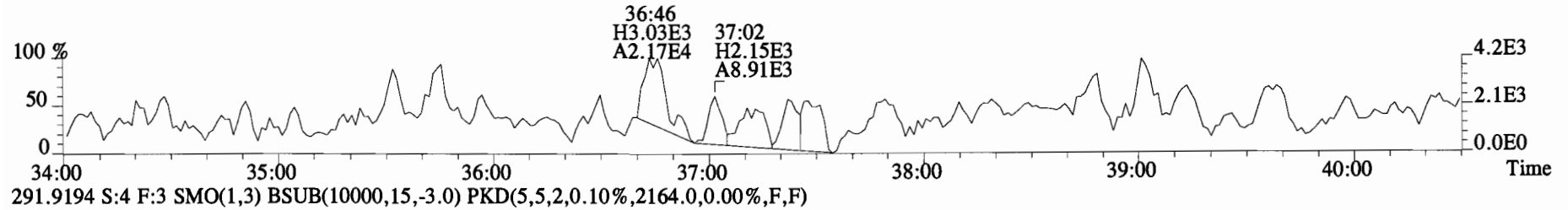
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2104.0,0.00%,F,F)



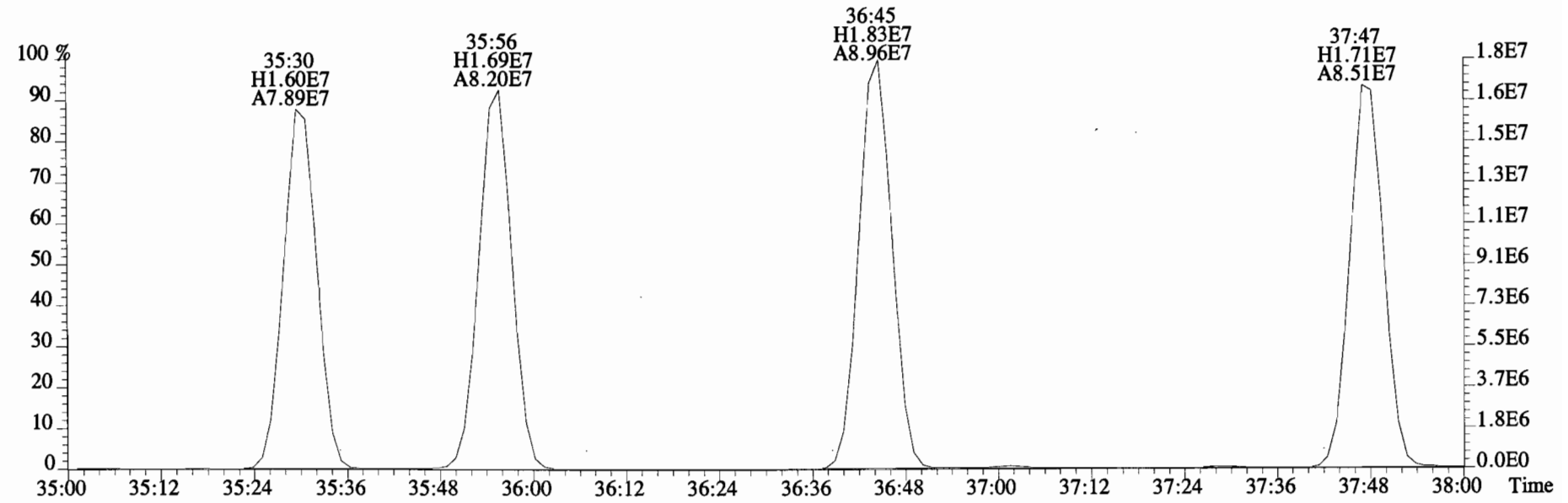
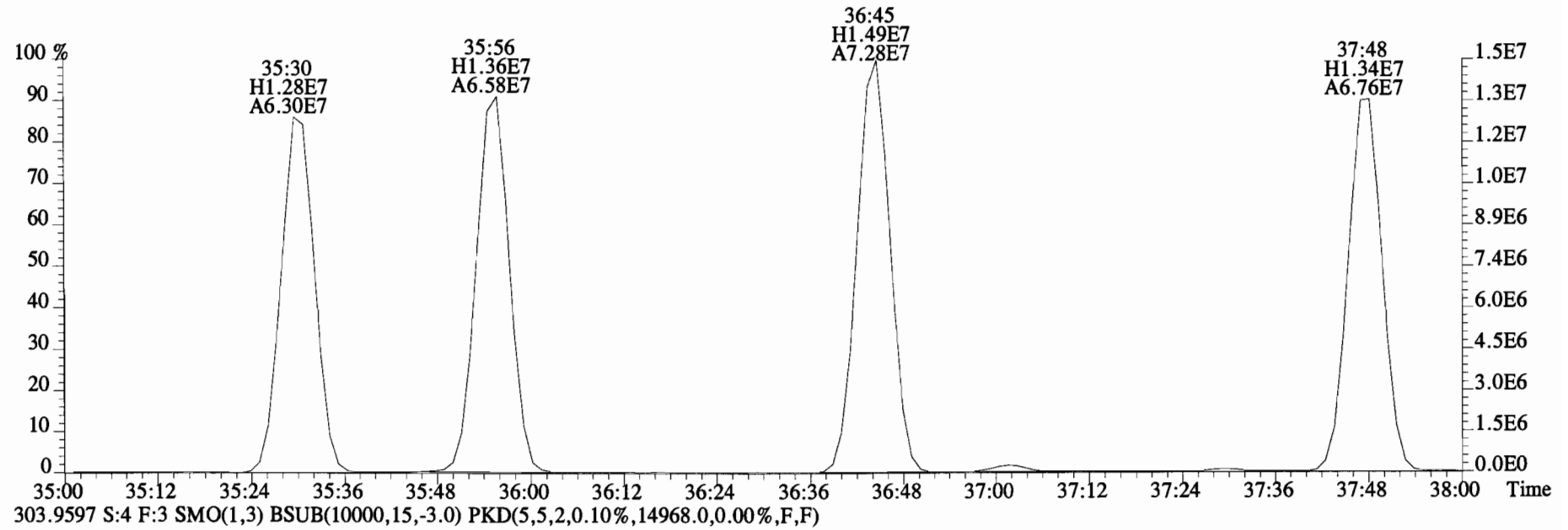
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2104.0,0.00%,F,F)



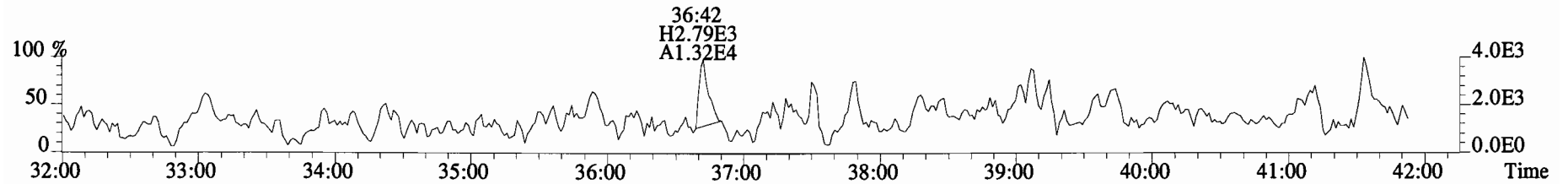
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2104.0,0.00%,F,F)



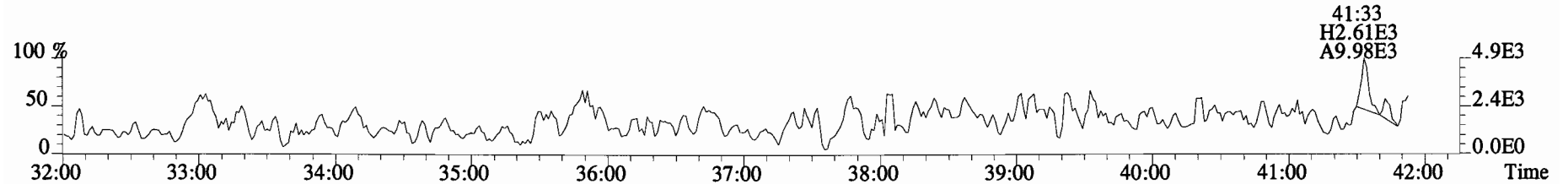
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,25996.0,0.00%,F,F)



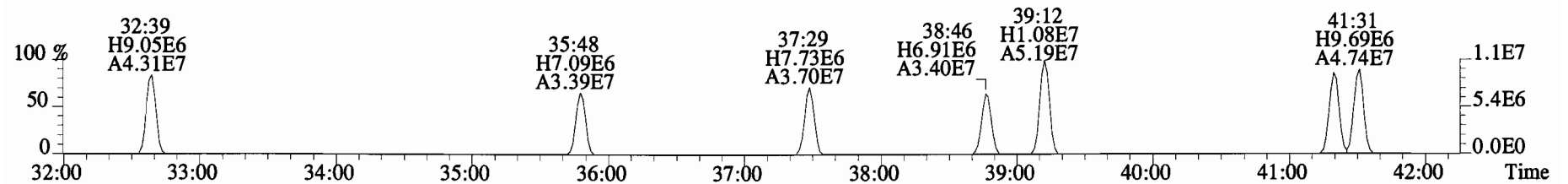
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1848.0,0.00%,F,F)



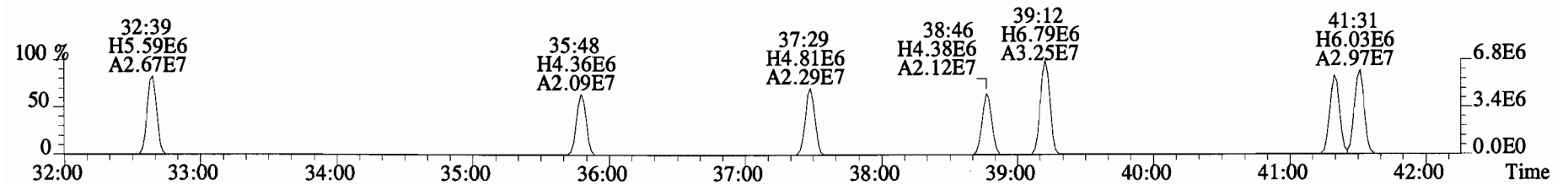
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2244.0,0.00%,F,F)



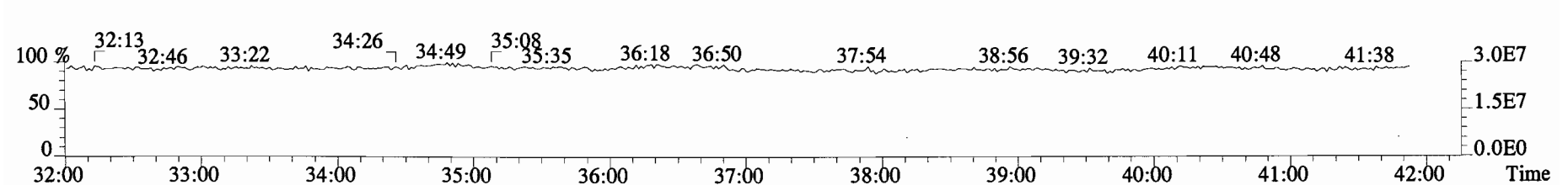
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3144.0,0.00%,F,F)



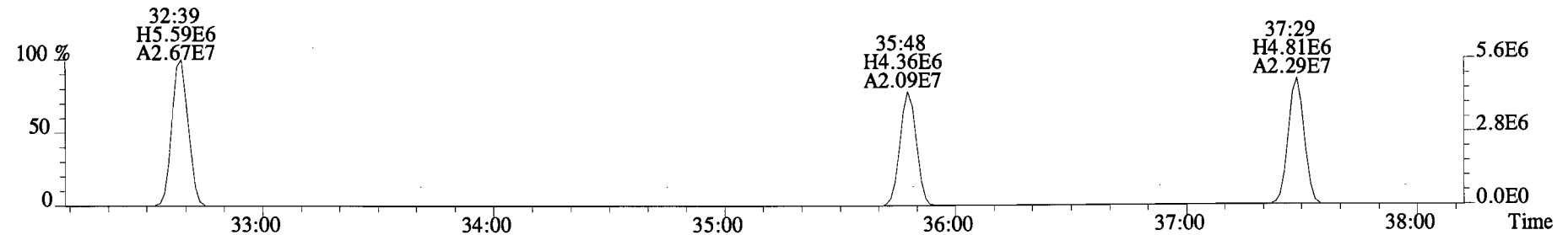
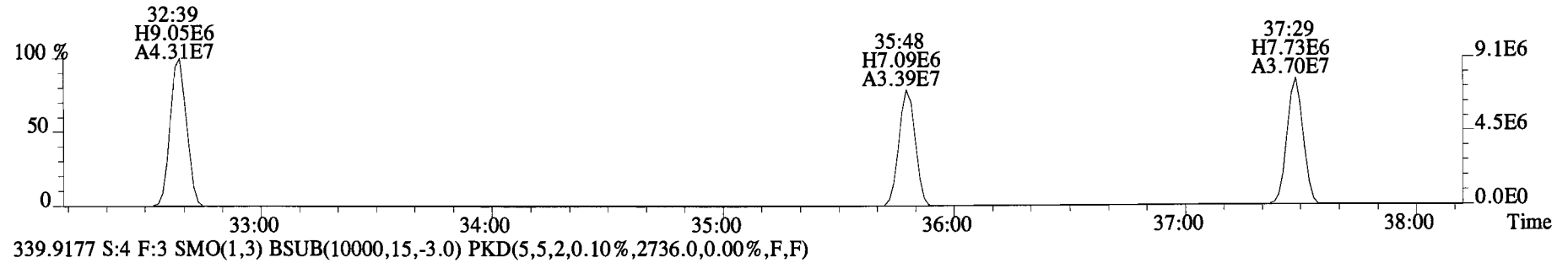
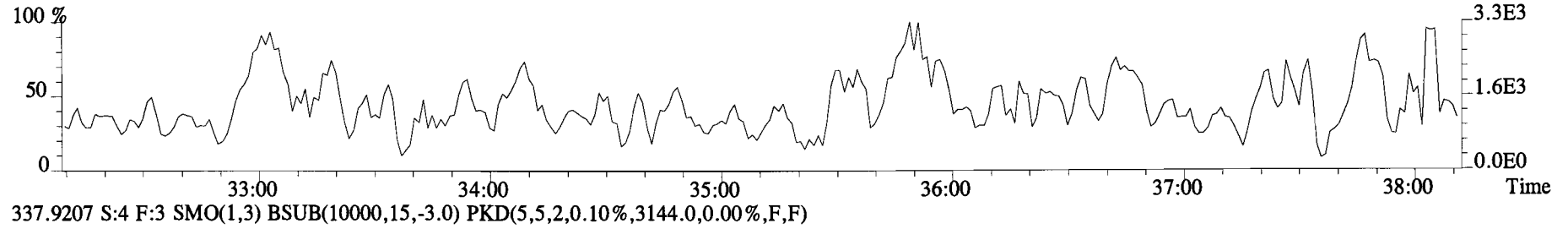
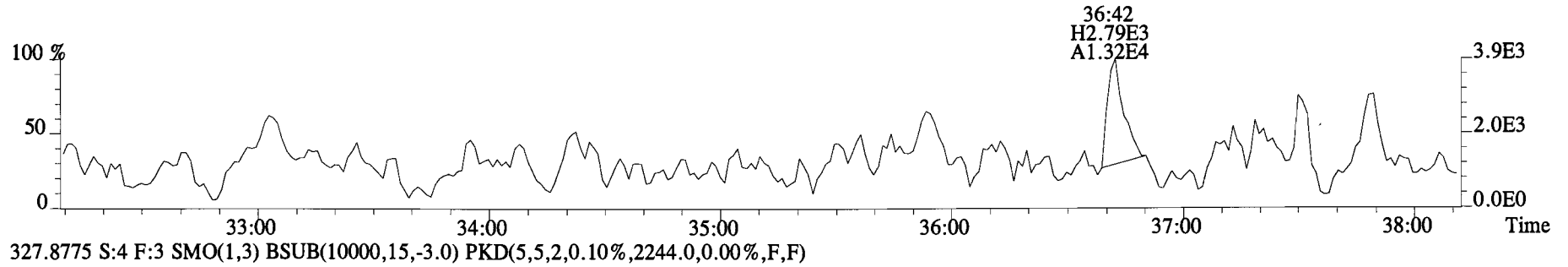
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2736.0,0.00%,F,F)



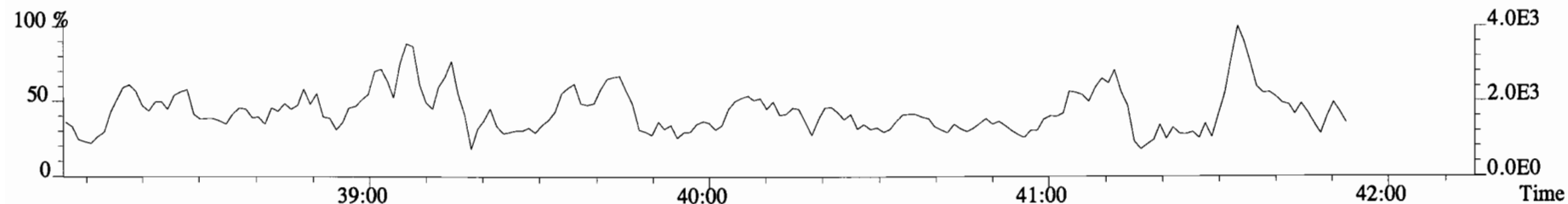
330.9792 S:4 F:3



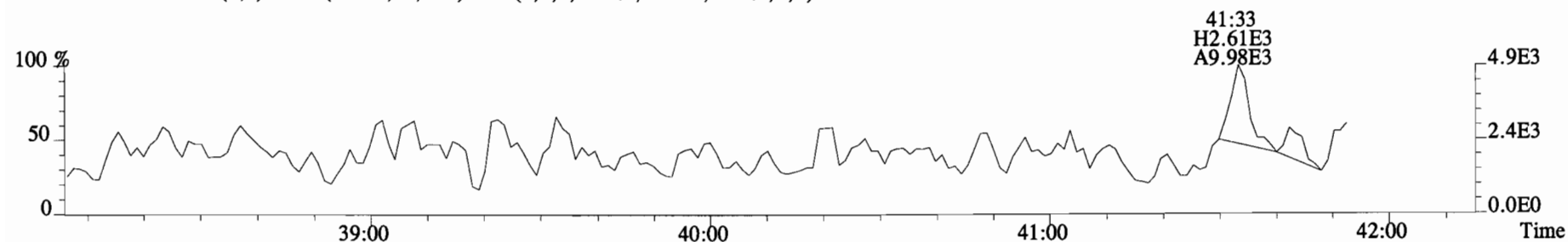
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1848.0,0.00%,F,F)



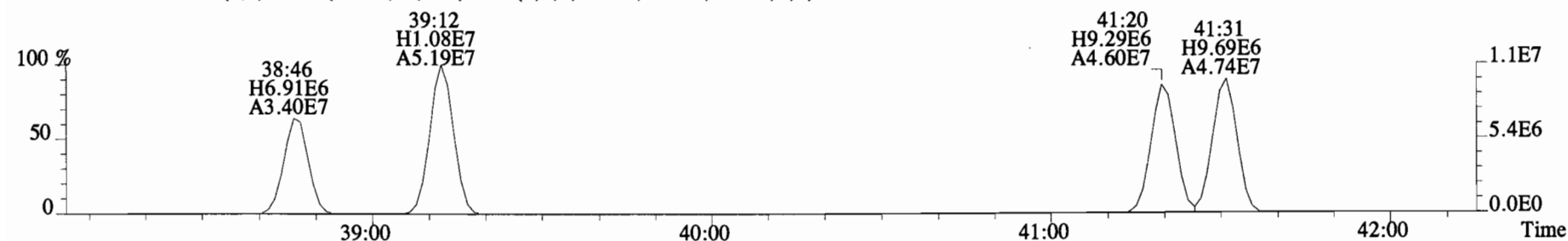
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1848.0,0.00%,F,F)



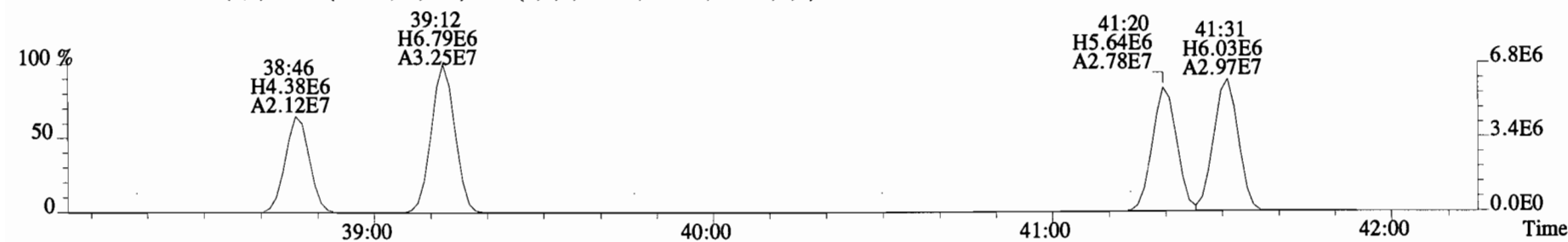
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2244.0,0.00%,F,F)



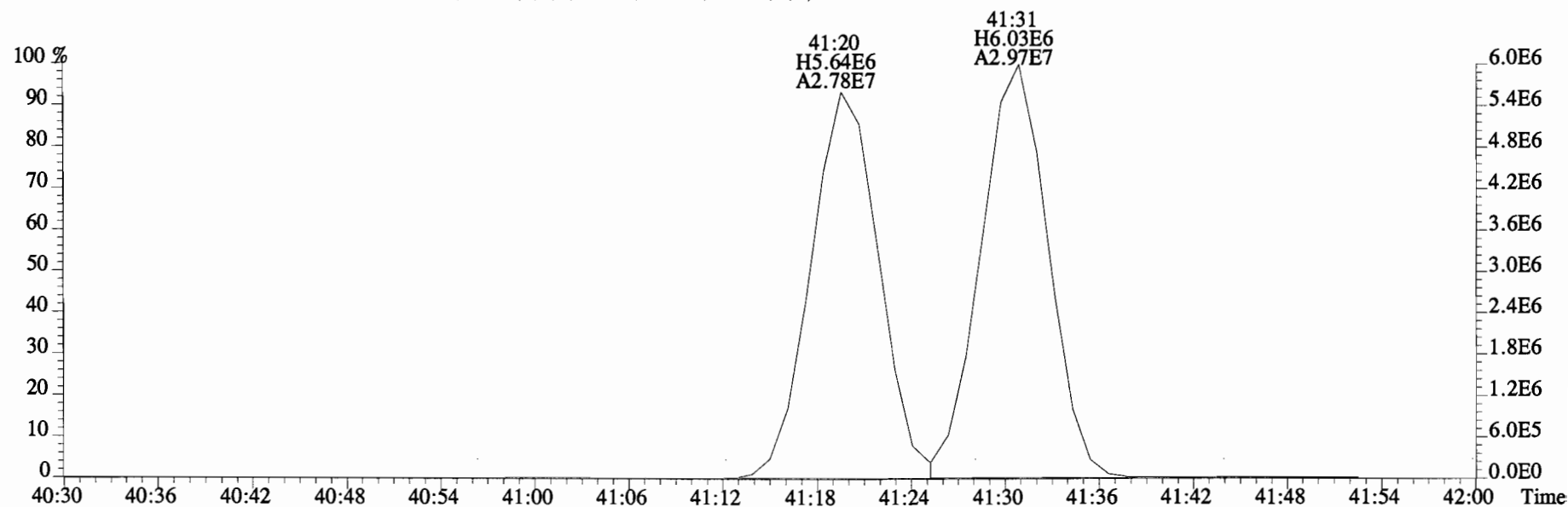
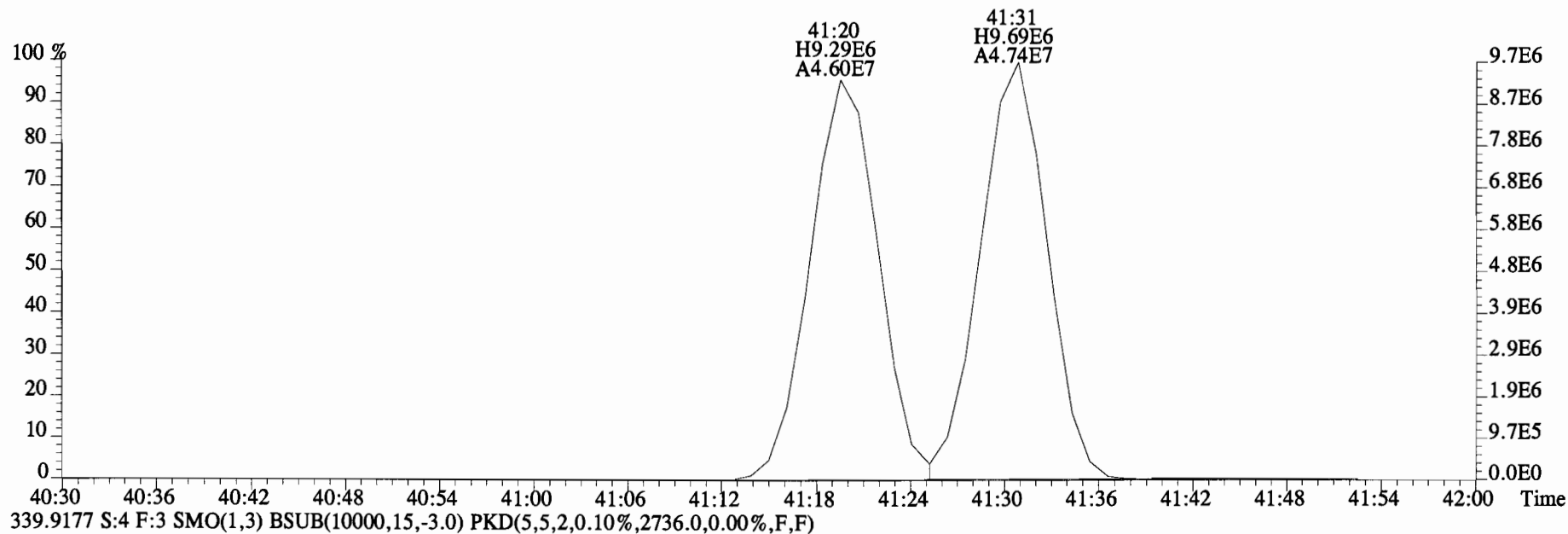
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3144.0,0.00%,F,F)



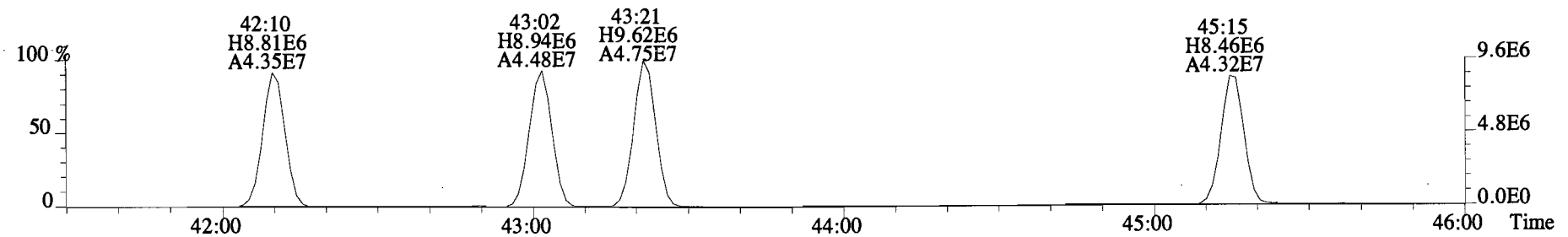
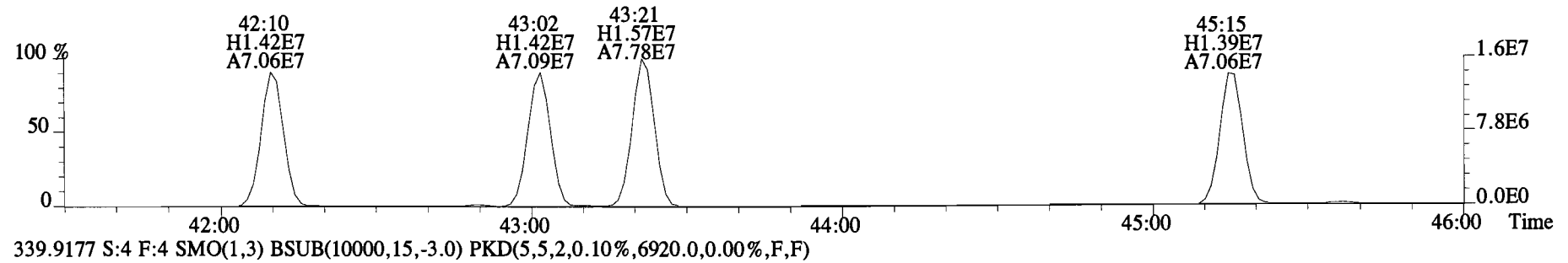
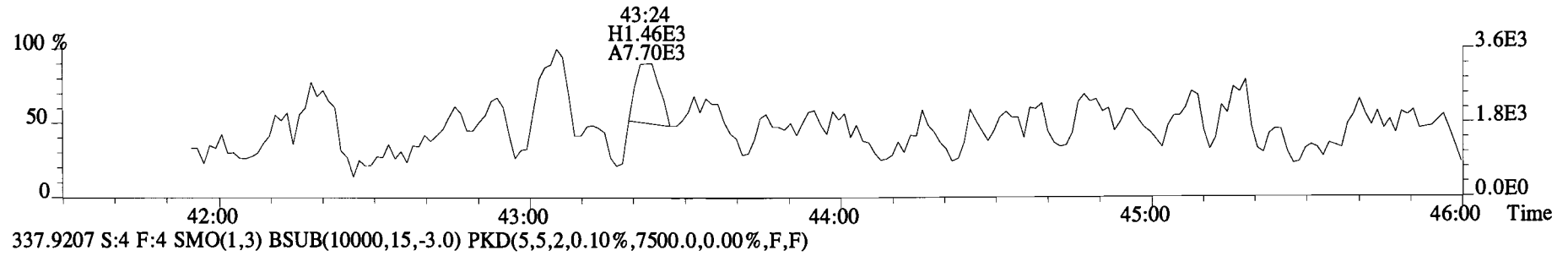
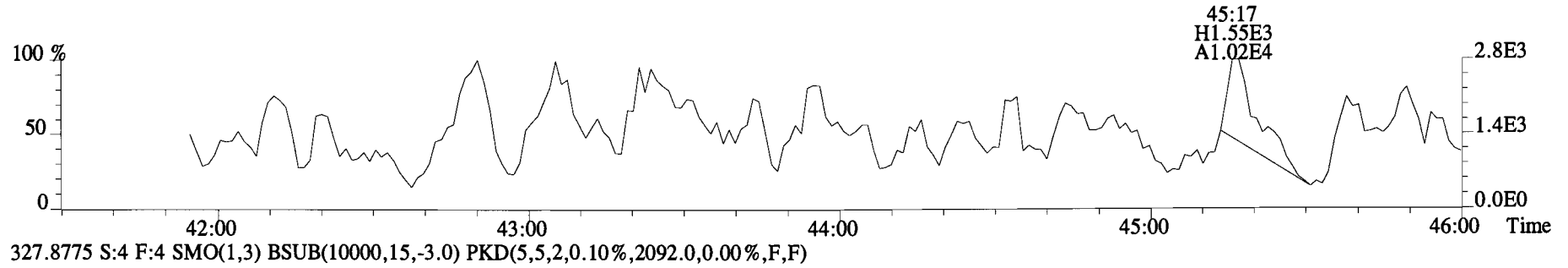
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2736.0,0.00%,F,F)



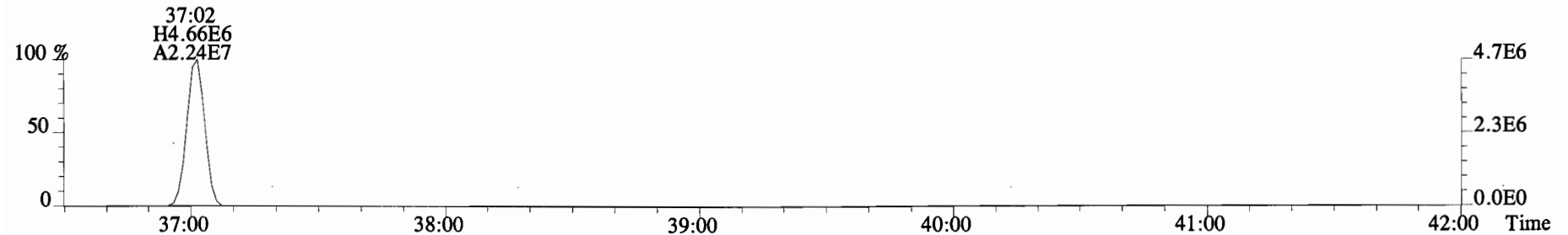
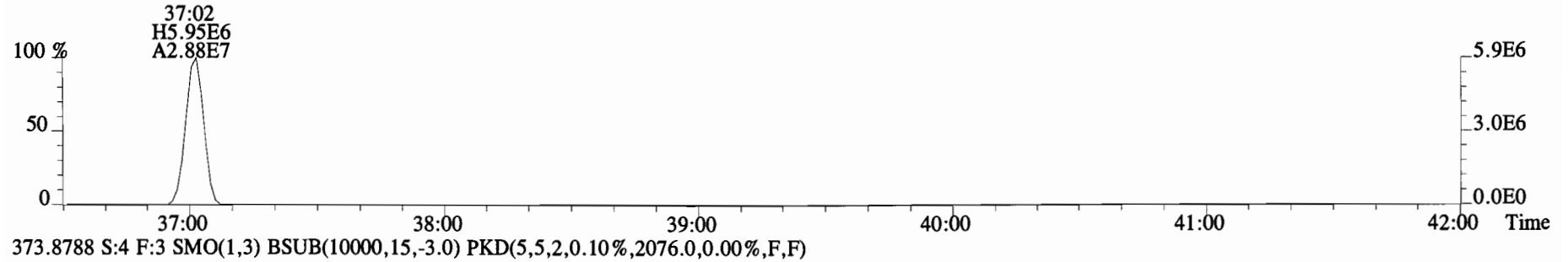
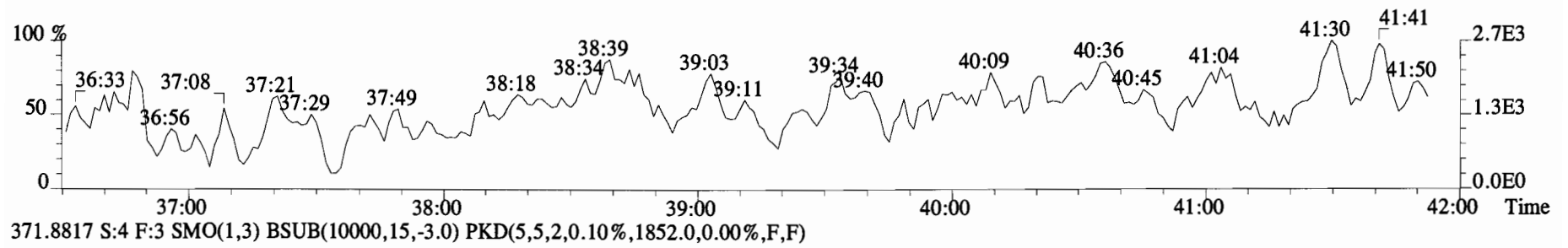
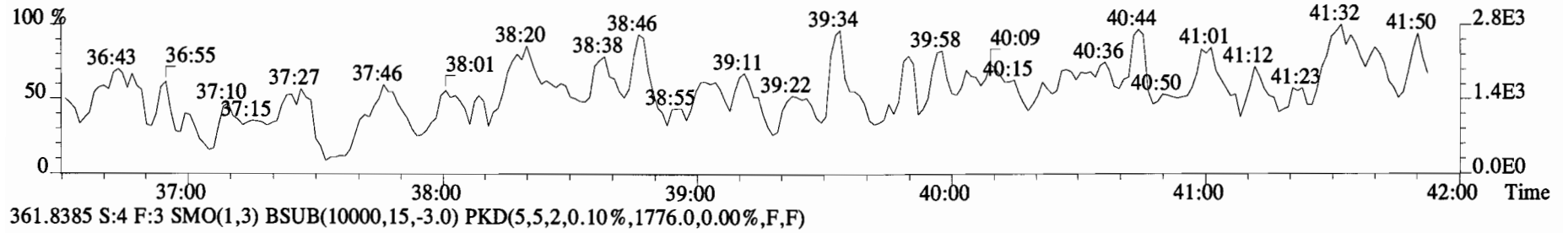
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3144.0,0.00%,F,F)



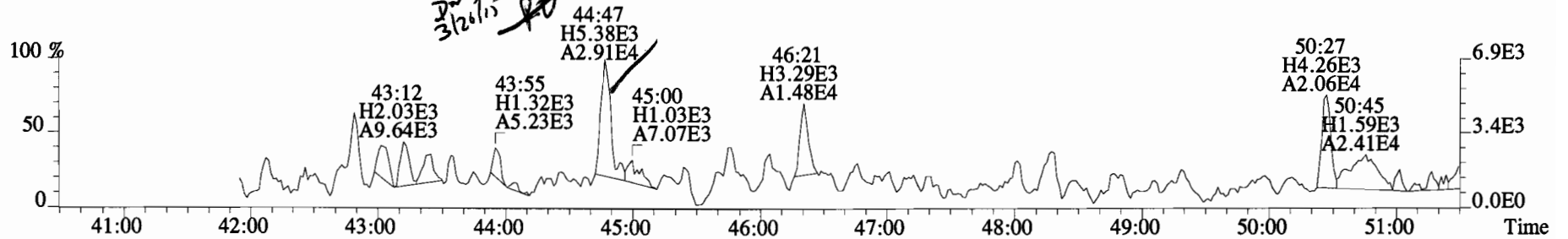
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



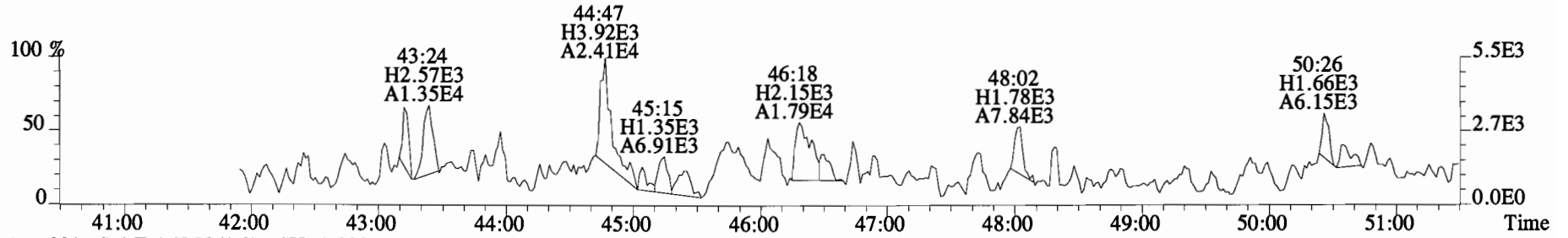
File:150318E1 #1-758 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1768.0,0.00%,F,F)



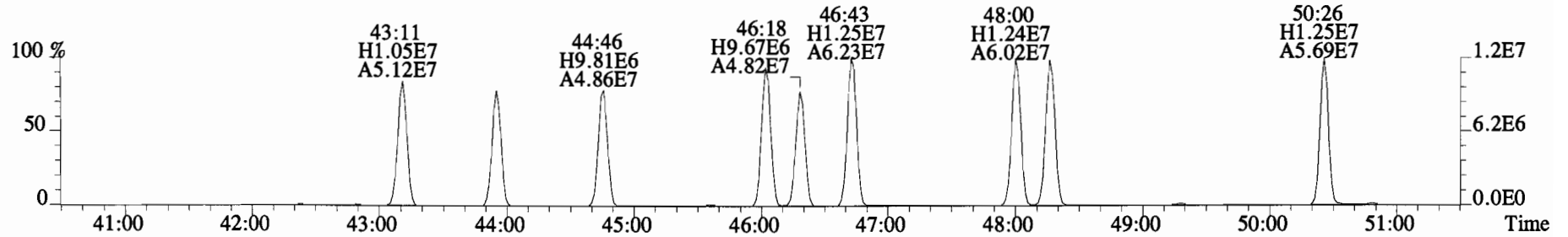
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1592.0,0.00%,F,F)



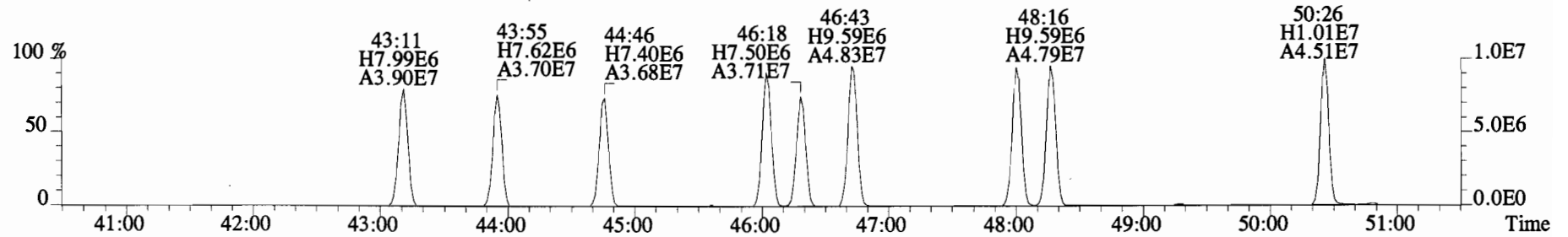
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1536.0,0.00%,F,F)



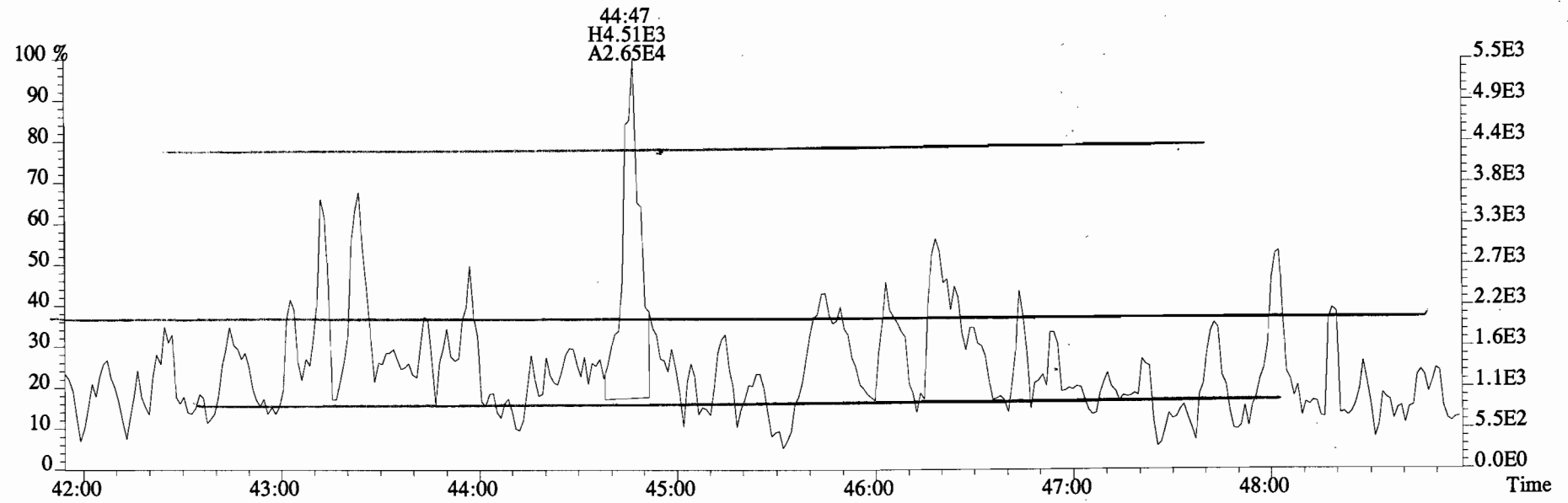
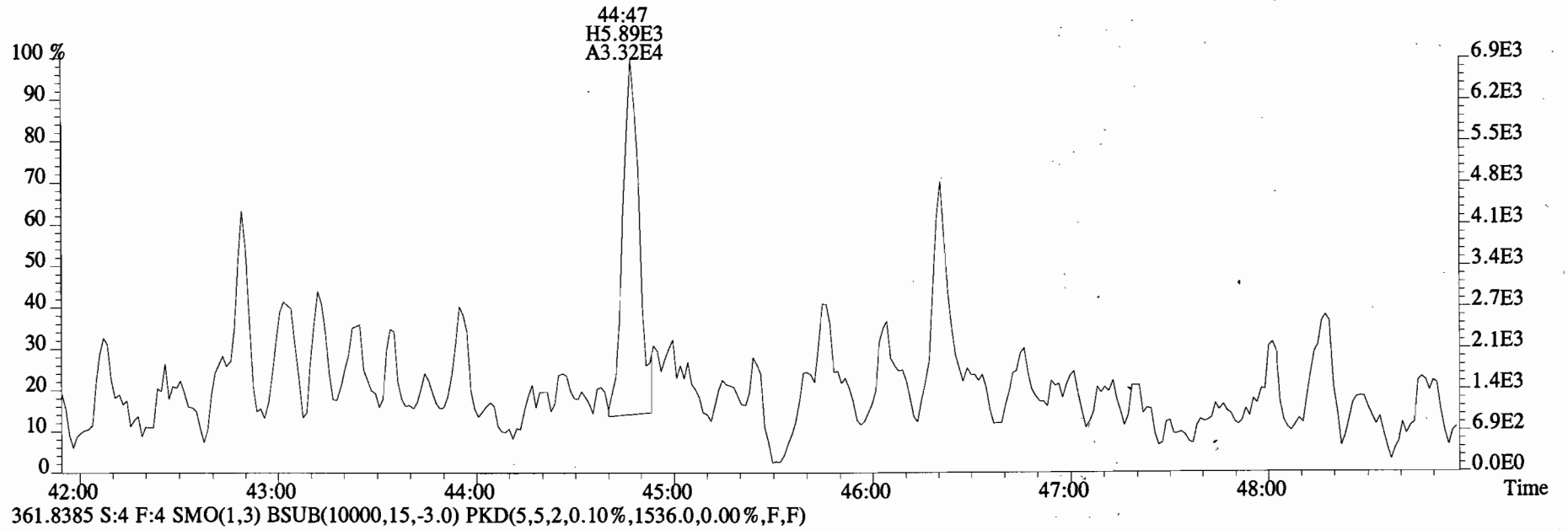
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8372.0,0.00%,F,F)



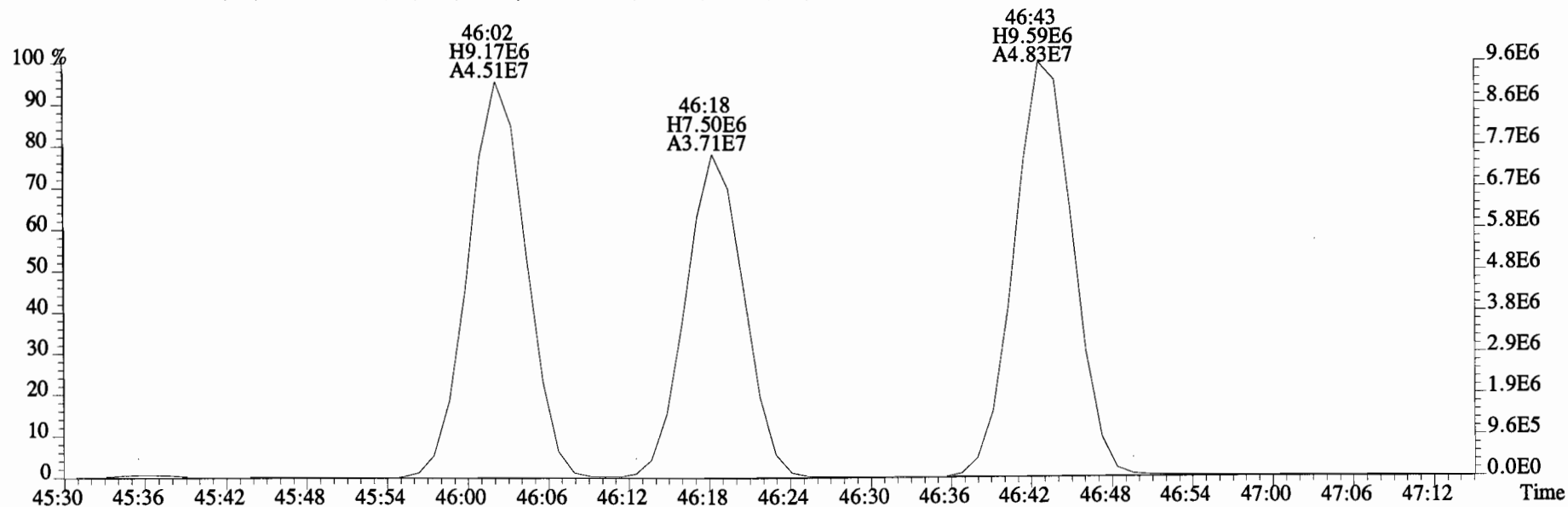
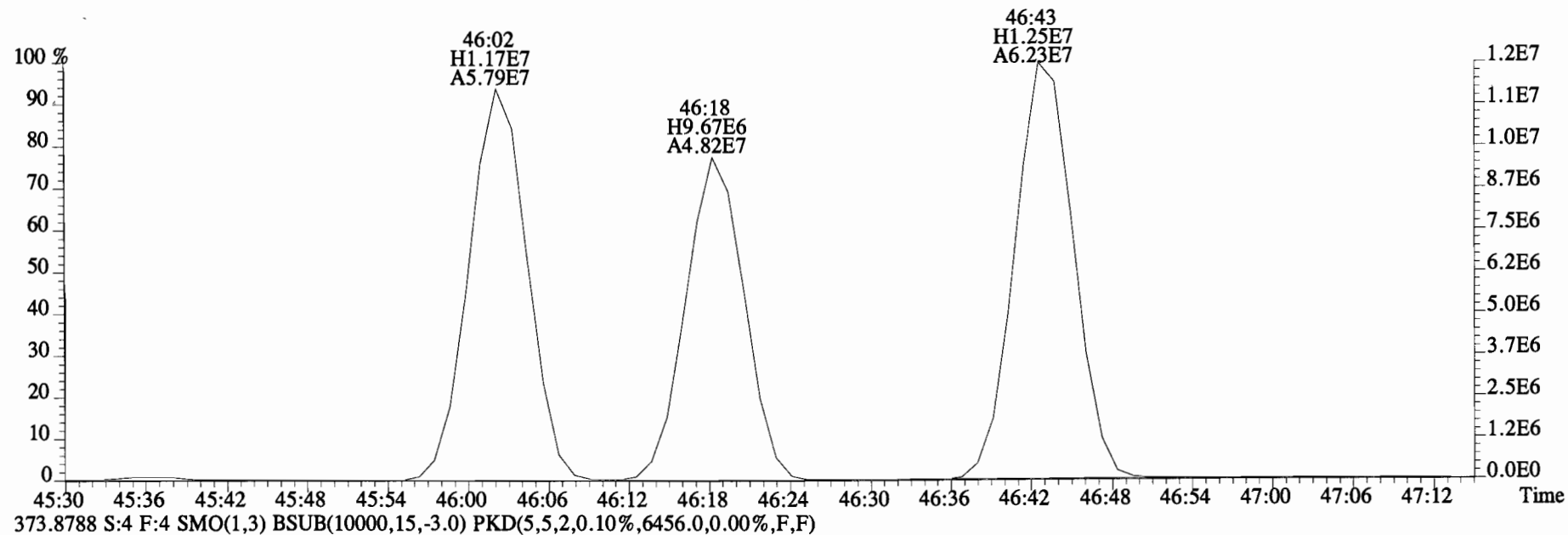
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6456.0,0.00%,F,F)



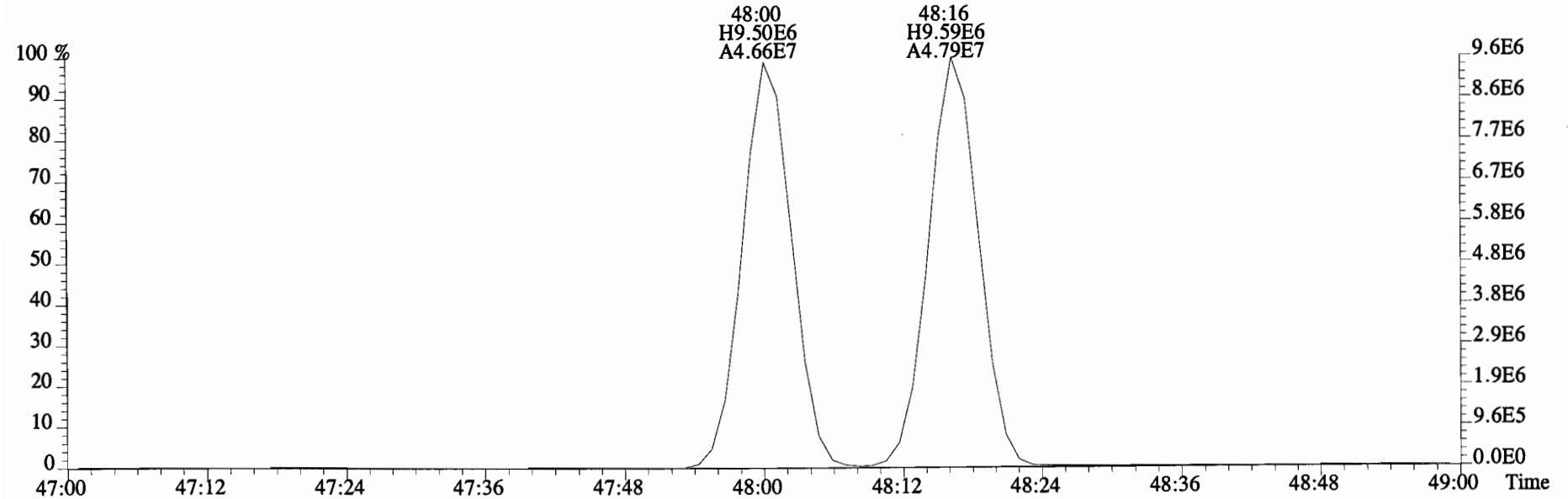
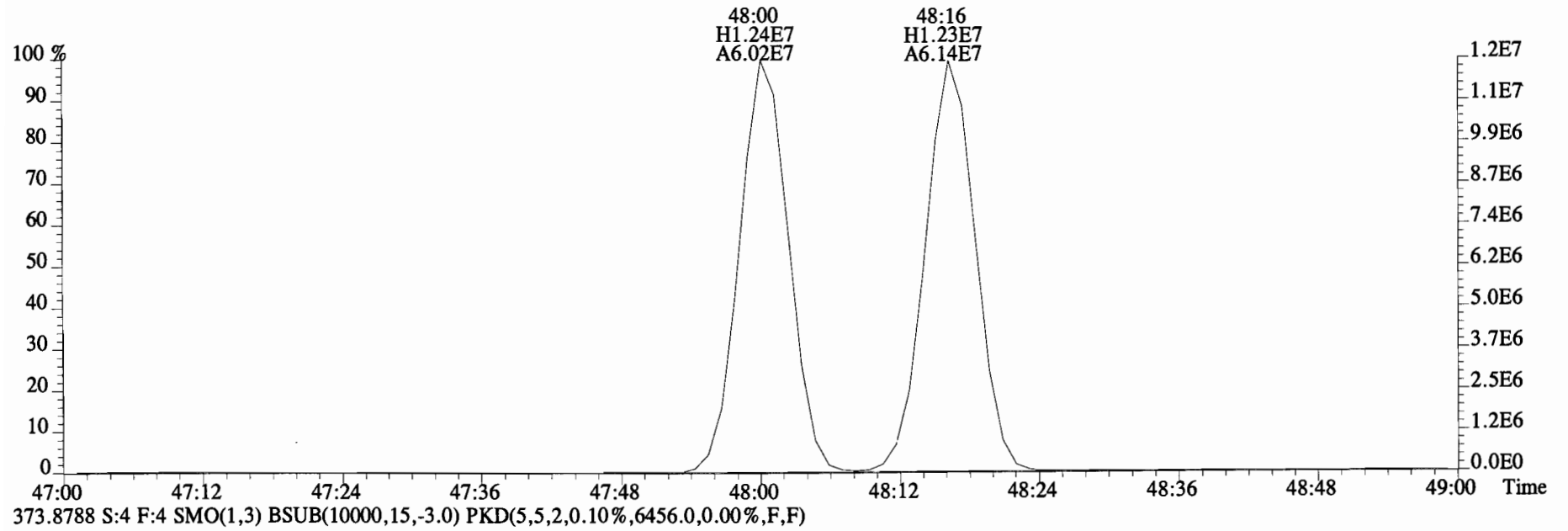
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1592.0,0.00%,F,F)



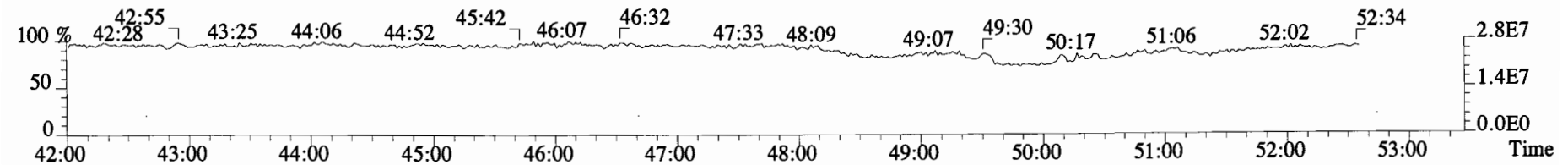
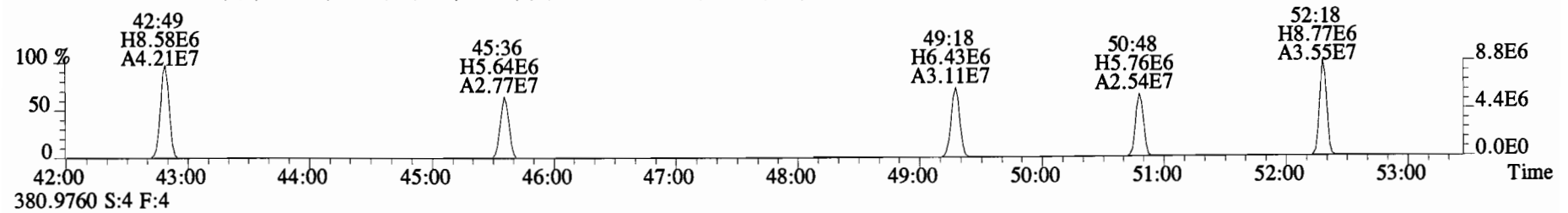
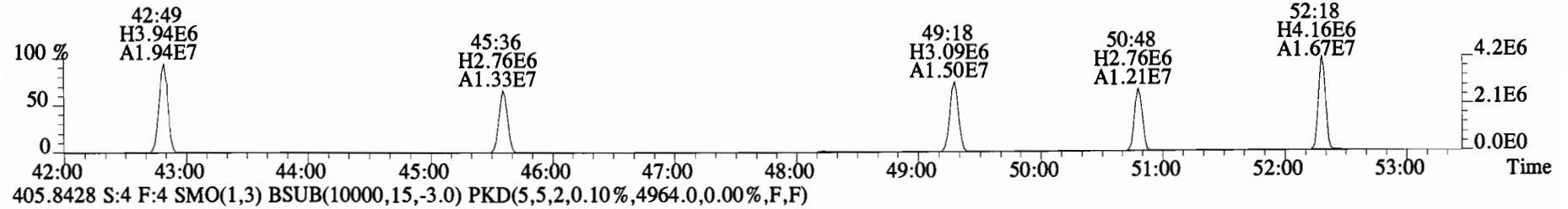
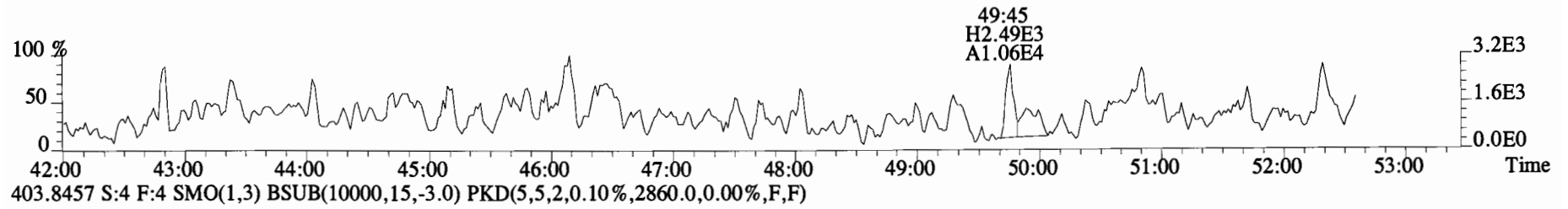
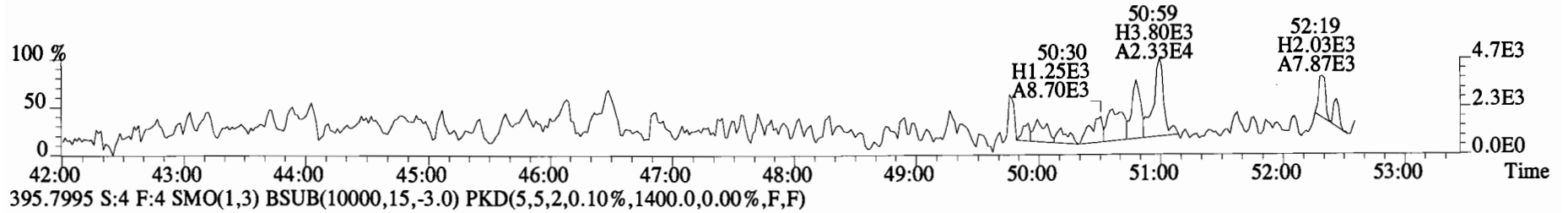
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8372.0,0.00%,F,F)



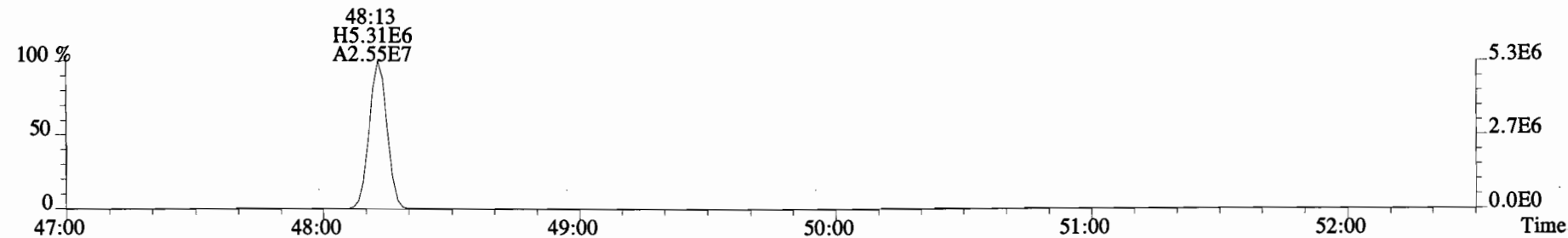
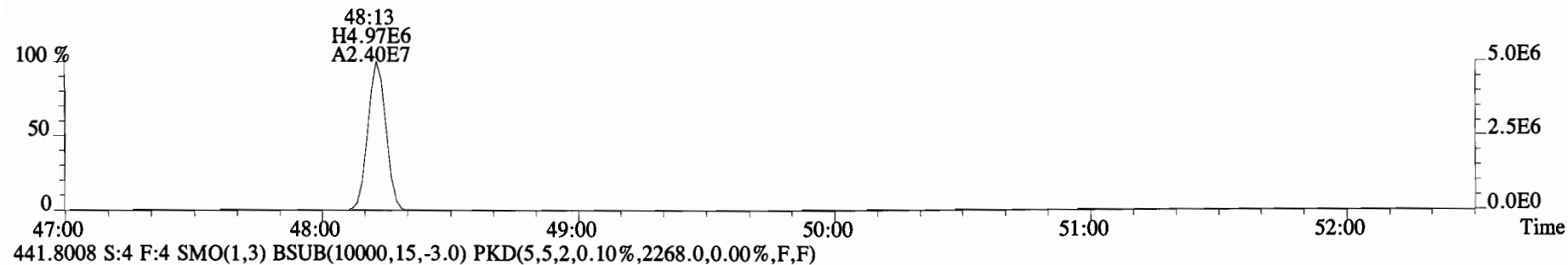
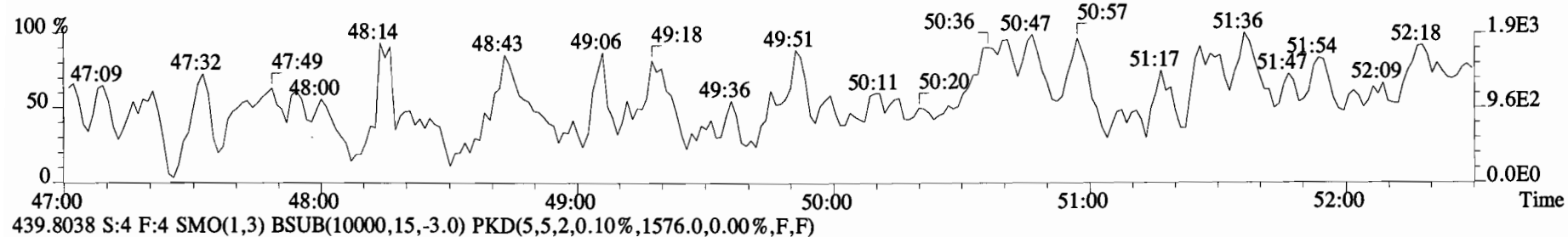
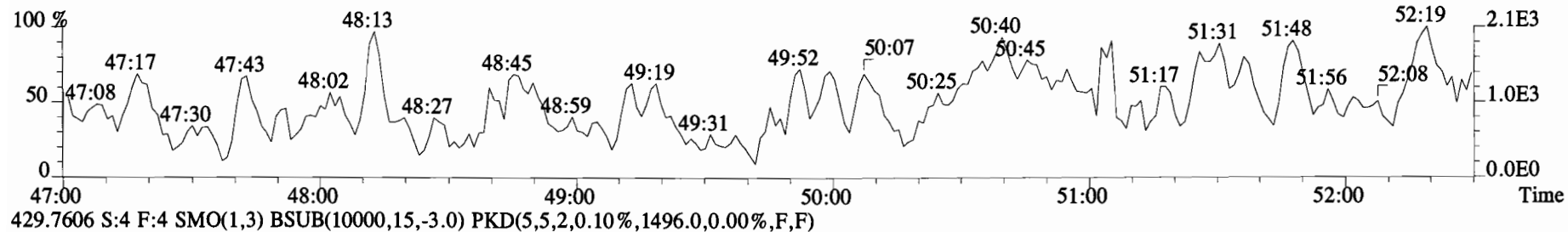
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8372.0,0.00%,F,F)



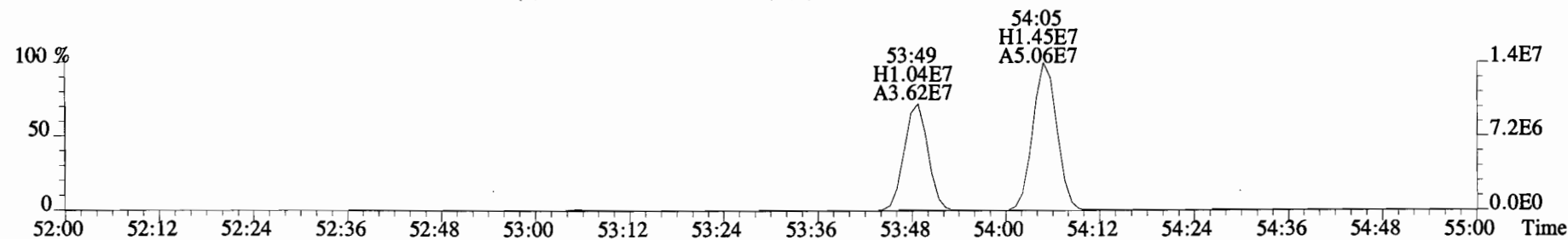
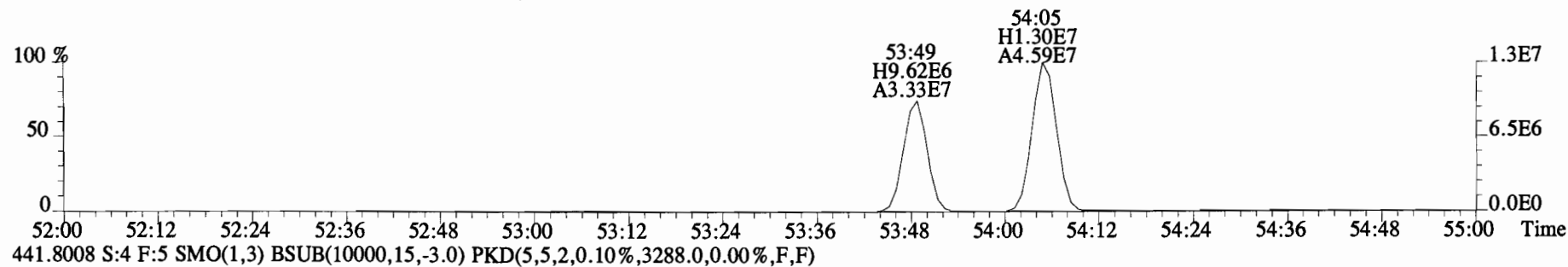
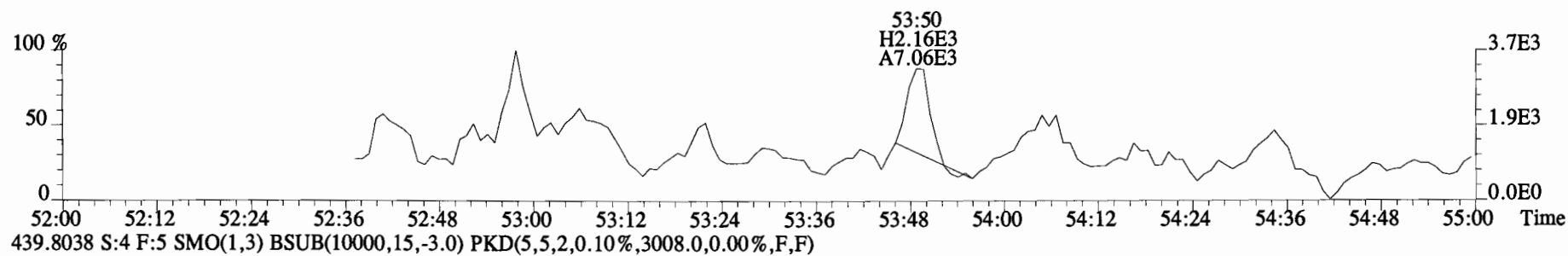
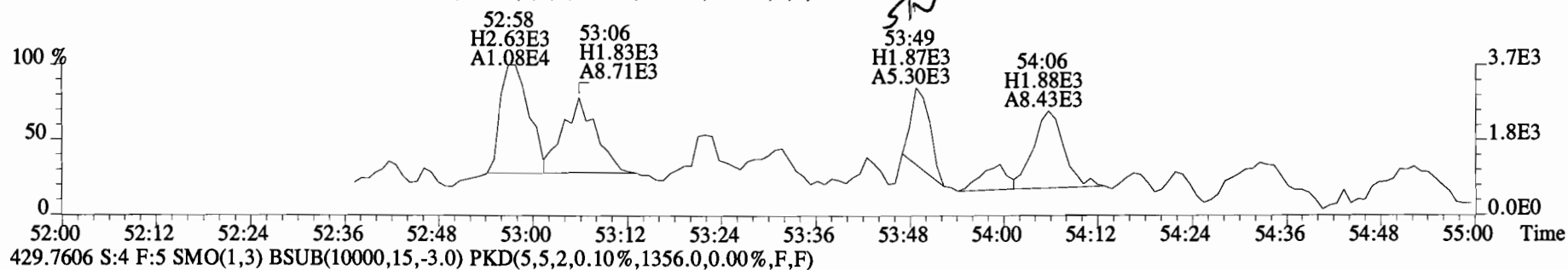
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1696.0,0.00%,F,F)



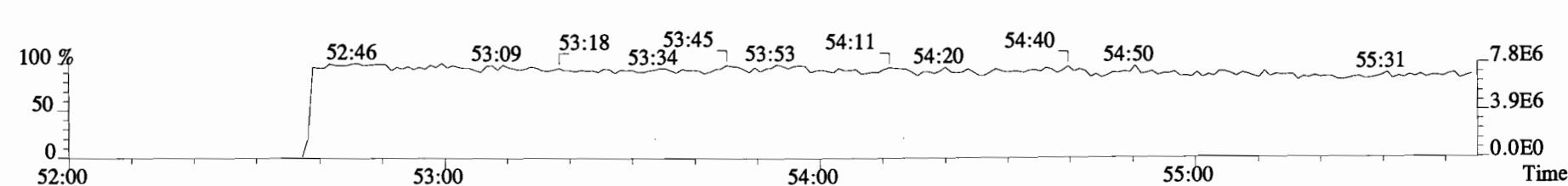
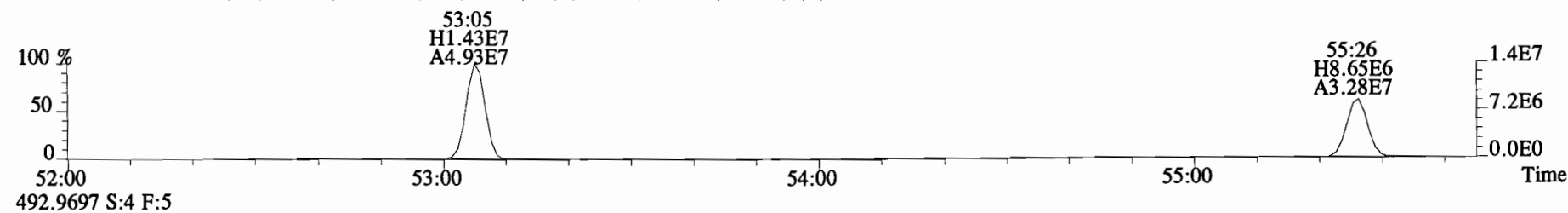
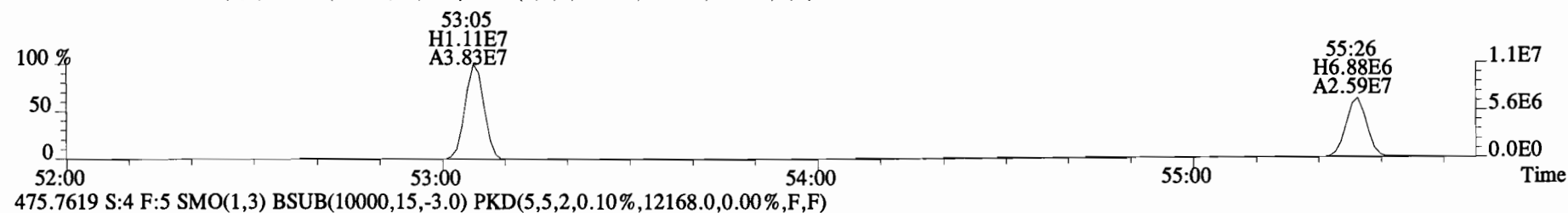
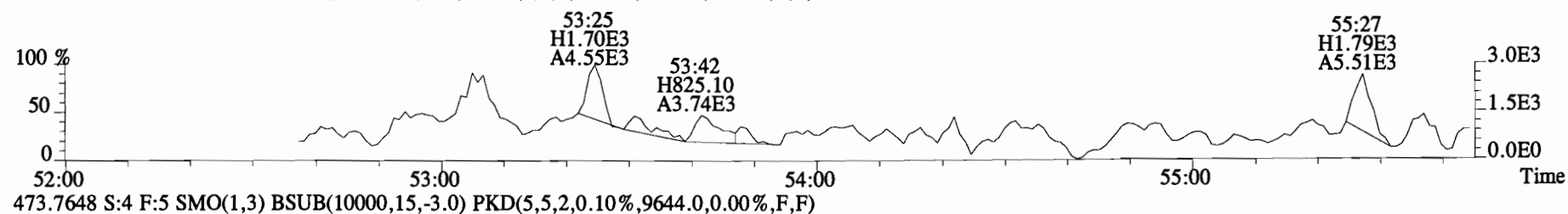
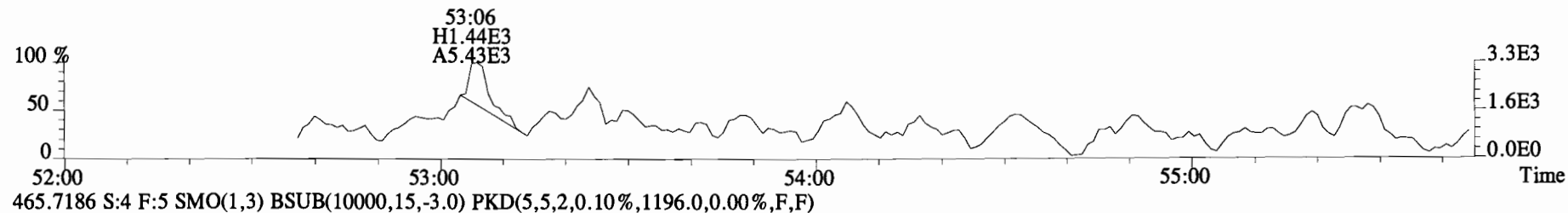
File:150318E1 #1-555 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1400.0,0.00%,F,F)



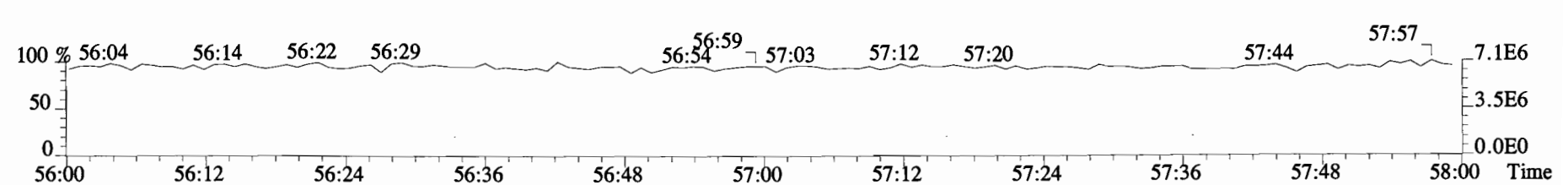
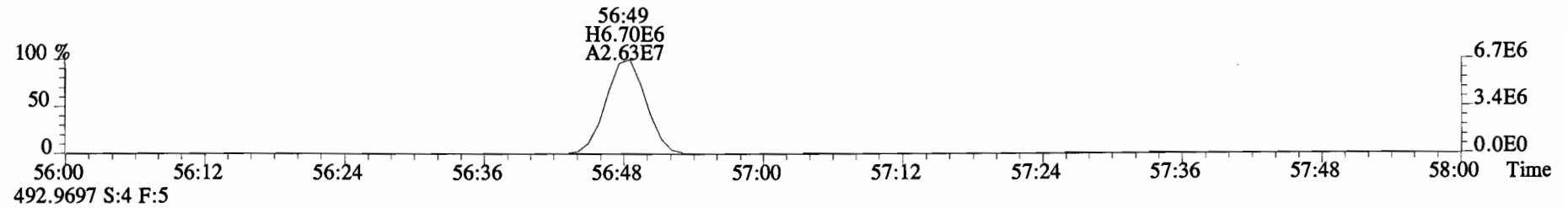
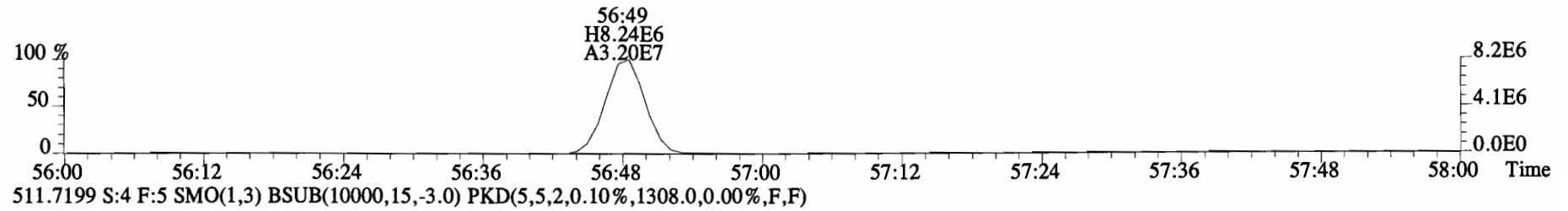
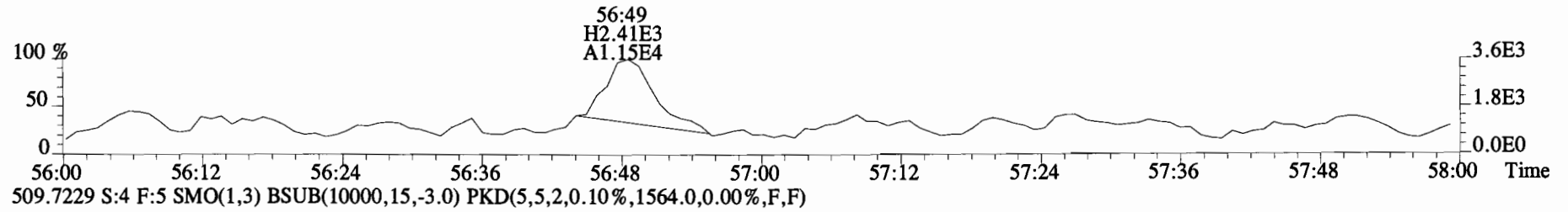
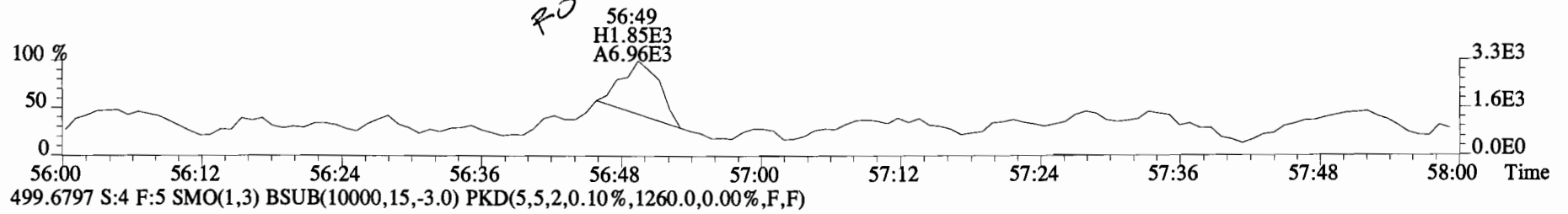
File:150318E1 #1-429 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text: B5C0059-BLK1 Method Blank 2 Exp: PCB ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1228.0,0.00%,F,F)



File:150318E1 #1-429 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
 463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1432.0,0.00%,F,F)



File:150318E1 #1-429 Acq:18-MAR-2015 13:13:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BLK1 Method Blank 2 Exp:PCB_ZB1
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1228.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B5C0059-BS1

Matrix : SOLID Ext. Date: 3-12-15 Analysis Date: 18-MAR-15 Time: 11:04:10

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	44.3	25.0-75.0	13C-PCB-1	100	71.4	15-140	13C-PCB-79	100	92.9	40-125
PCB-3	50	43.9	25.0-75.0	13C-PCB-3	100	77.6	15-140	13C-PCB-178	100	85.4	40-125
PCB-4/10	200	214.2	100-300	13C-PCB-4	100	68.7	30-140				
PCB-15	100	105.1	50.0-150	13C-PCB-11	100	79.4	30-140				
PCB-19	50	53.3	25.0-75.0	13C-PCB-19	100	76.1	30-140				
PCB-37	50	57.7	25.0-75.0	13C-PCB-37	100	108.3	30-140				
PCB-54	50	52.6	25.0-75.0	13C-PCB-54	100	70.9	30-140				
PCB-81	50	53.3	25.0-75.0	13C-PCB-81	100	94.8	30-140				
PCB-77	50	54.2	25.0-75.0	13C-PCB-77	100	96.2	30-140				
PCB-104	50	58.6	25.0-75.0	13C-PCB-104	100	81.3	30-140				
PCB-123	50	55.5	25.0-75.0	13C-PCB-123	100	98.1	30-140				
PCB-106/118	100	111.6	50.0-150	13C-PCB-118	100	97.8	30-140				
PCB-114	50	52.3	25.0-75.0	13C-PCB-114	100	101.9	30-140				
PCB-105	50	53.5	25.0-75.0	13C-PCB-105	100	104.4	30-140				
PCB-126	50	57.6	25.0-75.0	13C-PCB-126	100	106.9	30-140				
PCB-155	50	55.7	25.0-75.0	13C-PCB-155	100	73.4	30-140				
PCB-167	50	55.5	25.0-75.0	13C-PCB-167	100	95.5	30-140				
PCB-156	50	52.6	25.0-75.0	13C-PCB-156	100	103.7	30-140				
PCB-157	50	51.3	25.0-75.0	13C-PCB-157	100	102.6	30-140				
PCB-169	50	52.2	25.0-75.0	13C-PCB-169	100	108.0	30-140				
PCB-188	50	56.0	25.0-75.0	13C-PCB-188	100	82.0	30-140				
PCB-189	50	54.5	25.0-75.0	13C-PCB-189	100	93.0	30-140				
PCB-202	50	54.4	25.0-75.0	13C-PCB-202	100	76.2	30-140				
PCB-205	50	54.7	25.0-75.0	13C-PCB-194	100	91.0	30-140				
PCB-208	50	55.5	25.0-75.0	13C-PCB-208	100	81.3	30-140				
PCB-206	50	54.5	25.0-75.0	13C-PCB-206	100	93.1	30-140				
PCB-209	50	55.8	25.0-75.0	13C-PCB-209	100	99.4	30-140				

Analyst: DMSDate: 3/26/15

Client ID: OPR
Lab ID: B5C0059-BS1

Filename: 150318E1 S:2 Acq:18-MAR-15 11:04:10
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150318E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	6.56e+07	2.95	y	1.19	16:10	1.001	0.996-1.006	44.3329	PCB-52/69	1.32e+08	0.85	y	1.28	31:32	1.001	0.996-1.006	108.411
PCB-2	7.64e+07	2.93	y	1.18	18:33	0.988	0.984-0.994	45.7983	PCB-73	7.21e+07	0.69	y	1.35	31:39	1.005	1.000-1.010	55.9302
PCB-3	8.81e+07	2.94	y	1.43	18:47	1.001	0.996-1.006	43.8619	PCB-43/49	1.02e+08	0.79	y	0.99	31:49	1.010	1.005-1.015	107.914
PCB-4/10	2.69e+08	1.64	y	1.57	20:09	1.003	0.997-1.007	214.214	PCB-47	5.46e+07	0.78	y	1.06	32:01	1.001	0.996-1.006	51.0263
PCB-7/9	3.44e+08	1.62	y	1.21	21:55	0.868	0.866-0.874	216.633	PCB-48/75	1.37e+08	0.79	y	1.23	32:08	1.004	0.999-1.009	110.250
PCB-6	1.79e+08	1.66	y	1.30	22:33	0.893	0.890-0.899	104.297	PCB-65	7.21e+07	0.79	y	1.22	32:24	1.012	1.008-1.018	58.1930
PCB-5/8	3.26e+08	1.60	y	1.15	22:59	0.910	0.907-0.917	215.934	PCB-62	6.38e+07	0.81	y	1.22	32:31	1.016	1.011-1.021	51.6651
PCB-14	1.73e+08	1.65	y	1.11	24:04	0.953	0.949-0.959	105.160	PCB-44	4.85e+07	0.79	y	0.86	32:48	1.025	1.021-1.031	55.7079
PCB-11	1.73e+08	1.64	y	1.09	25:15	1.000	0.995-1.005	107.340	PCB-42/59	1.35e+08	0.78	y	1.14	33:02	1.032	1.028-1.038	117.332
PCB-12/13	3.75e+08	1.62	y	1.19	25:39	1.016	1.011-1.021	211.965	PCB-41/64/71/72	2.92e+08	0.78	y	1.21	33:37	1.051	1.046-1.056	239.315
PCB-15	2.00e+08	1.62	y	1.28	25:58	1.028	1.023-1.033	105.125	PCB-68	8.31e+07	0.78	y	1.35	33:53	1.059	1.054-1.064	60.9901
PCB-19	4.48e+07	1.07	y	1.04	24:15	1.001	0.996-1.006	53.2984	PCB-40	4.36e+07	0.77	y	0.70	34:05	1.065	1.061-1.071	61.5200
PCB-30	7.67e+07	1.07	y	1.71	25:08	1.038	1.032-1.042	55.6966	PCB-57	7.52e+07	0.77	y	0.98	34:27	0.970	0.965-0.975	55.2683
PCB-18	5.51e+07	1.07	y	0.78	25:53	0.954	0.949-0.959	56.0155	PCB-67	7.65e+07	0.78	y	1.11	34:45	0.979	0.974-0.984	49.7854
PCB-17	6.42e+07	1.07	y	0.92	26:03	0.960	0.956-0.966	55.2996	PCB-58	7.28e+07	0.77	y	0.93	34:52	0.982	0.977-0.987	56.5267
PCB-24/27	1.70e+08	1.06	y	1.19	26:38	0.982	0.977-0.987	113.820	PCB-63	6.93e+07	0.80	y	0.95	35:01	0.986	0.982-0.992	52.3874
PCB-16/32	1.33e+08	1.07	y	0.94	27:08	1.000	0.995-1.005	112.284	PCB-74	9.01e+07	0.77	y	1.24	35:19	0.995	0.990-1.000	52.1387
PCB-34	8.56e+07	1.10	y	1.14	27:56	0.960	0.955-0.965	54.0460	PCB-61/70	1.46e+08	0.78	y	0.95	35:29	1.000	0.995-1.005	110.176
PCB-23	8.98e+07	1.12	y	1.28	28:02	0.964	0.959-0.969	50.3368	PCB-76/66	1.51e+08	0.77	y	1.04	35:42	1.006	1.001-1.011	104.004
PCB-29	7.92e+07	1.11	y	1.08	28:17	0.972	0.967-0.977	52.6153	PCB-80	9.64e+07	0.78	y	1.19	35:57	1.001	0.996-1.006	56.8025
PCB-26	9.23e+07	1.11	y	1.21	28:29	0.979	0.974-0.984	54.8559	PCB-55	8.32e+07	0.77	y	1.04	36:16	1.010	1.005-1.015	56.1112
PCB-25	1.03e+08	1.10	y	1.26	28:39	0.985	0.979-0.989	58.5281	PCB-56/60	1.67e+08	0.78	y	1.01	36:45	1.023	1.019-1.029	116.242
PCB-31	9.31e+07	1.12	y	1.28	29:00	0.997	0.992-1.002	51.9803	PCB-79	8.84e+07	0.79	y	1.08	37:49	1.053	1.048-1.058	57.4862
PCB-28	1.35e+08	1.12	y	1.71	29:07	1.001	0.995-1.005	56.3554	PCB-78	8.79e+07	0.78	y	1.27	38:30	0.987	0.982-0.992	51.3574
PCB-20/21/33	2.72e+08	1.10	y	1.08	29:43	1.022	1.017-1.027	180.070	PCB-81	9.56e+07	0.77	y	1.33	39:02	1.000	0.995-1.005	53.3138
PCB-22	1.03e+08	1.10	y	1.21	30:09	1.037	1.032-1.042	60.8617	PCB-77	8.34e+07	0.79	y	1.10	39:37	1.000	0.995-1.005	54.1783
PCB-36	9.17e+07	1.10	y	1.14	30:47	0.934	0.928-0.938	55.5429	PCB-104	4.59e+07	1.62	y	1.18	32:40	1.001	0.996-1.006	58.6110
PCB-39	8.94e+07	1.08	y	1.12	31:14	0.948	0.943-0.953	55.4319	PCB-96	4.52e+07	1.63	y	1.14	33:55	1.039	1.034-1.044	60.0477
PCB-38	9.26e+07	1.11	y	1.20	32:00	0.971	0.966-0.976	53.3517	PCB-103	3.71e+07	1.62	y	0.96	34:27	1.055	1.050-1.060	58.5531
PCB-35	1.07e+08	1.09	y	1.23	32:32	0.987	0.982-0.992	59.8731	PCB-100	3.74e+07	1.62	y	0.94	34:49	1.066	1.061-1.071	60.2027
PCB-37	1.03e+08	1.09	y	1.23	32:58	1.001	0.995-1.005	57.6925	PCB-94	3.09e+07	1.63	y	1.06	35:17	0.986	0.980-0.990	55.5773
PCB-54	6.15e+07	0.77	y	1.10	28:00	1.001	0.996-1.006	52.5863	PCB-95/98/102	1.08e+08	1.63	y	1.22	35:47	1.000	0.995-1.005	168.539
PCB-50	5.03e+07	0.80	y	0.88	29:09	1.042	1.037-1.047	53.8631	PCB-93	2.78e+07	1.64	y	0.84	35:55	1.003	0.997-1.007	62.7395
PCB-53	5.13e+07	0.80	y	1.06	29:48	0.946	0.942-0.952	50.6060	PCB-88/91	7.52e+07	1.63	y	1.12	36:12	1.011	1.005-1.015	128.171
PCB-51	4.93e+07	0.79	y	0.99	30:08	0.957	0.952-0.962	52.2804	PCB-121	4.47e+07	1.59	y	1.62	36:18	1.014	1.009-1.019	52.6017
PCB-45	4.44e+07	0.78	y	0.86	30:34	0.970	0.966-0.976	54.0149	PCB-84/92	6.86e+07	1.63	y	1.05	37:07	0.990	0.985-0.995	113.755
PCB-46	4.27e+07	0.80	y	0.85	31:04	0.986	0.981-0.991	53.0577	PCB-89	3.71e+07	1.61	y	1.13	37:18	0.995	0.991-1.001	57.0358

Integrations

by
Analyst: *DMS*

Date: *3/26/15*

Reviewed

by
Analyst: *[Signature]*

Date: *3/27/15*

Client ID: OPR
Lab ID: B5C0059-BS1

Filename: 150318E1 S:2 Acq:18-MAR-15 11:04:10
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150318E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	7.35e+07	1.64	y	1.10	37:29	1.000	0.995-1.005	115.757	PCB-133/142	7.24e+07	1.25	y	0.82	42:25	0.982	0.977-0.987	102.475
PCB-113	4.78e+07	1.61	y	1.41	37:44	1.007	1.002-1.012	58.8248	PCB-131	4.00e+07	1.26	y	0.91	42:34	0.986	0.981-0.991	51.0487
PCB-99	4.48e+07	1.63	y	1.34	37:49	1.009	1.004-1.014	58.1941	PCB-146/165	1.11e+08	1.23	y	1.25	42:47	0.991	0.986-0.996	103.533
PCB-119	4.57e+07	1.60	y	1.53	38:17	0.988	0.982-0.992	56.1561	PCB-132/161	9.95e+07	1.24	y	1.10	43:02	0.997	0.992-1.002	104.386
PCB-108/112	7.73e+07	1.60	y	1.28	38:26	0.991	0.986-0.996	113.565	PCB-153	5.25e+07	1.26	y	1.25	43:12	1.000	0.995-1.005	48.8010
PCB-83	4.61e+07	1.64	y	1.52	38:36	0.996	0.990-1.000	57.1144	PCB-168	6.34e+07	1.26	y	1.45	43:25	1.005	1.001-1.011	50.7623
PCB-97	3.56e+07	1.62	y	1.18	38:47	1.000	0.995-1.005	56.6878	PCB-141	4.41e+07	1.23	y	1.09	43:56	1.000	0.995-1.005	51.8815
PCB-86	2.46e+07	1.54	y	0.84	38:56	1.004	0.999-1.009	55.0304	PCB-137	4.47e+07	1.21	y	1.06	44:19	1.009	1.004-1.014	53.8073
B-87/117/125	1.44e+08	1.62	y	1.55	39:03	1.007	1.002-1.012	175.092	PCB-130	4.18e+07	1.28	y	0.96	44:25	1.011	1.006-1.016	55.3642
PCB-111/115	9.94e+07	1.61	y	1.63	39:13	1.012	1.006-1.016	114.491	PCB-138/163/164	1.62e+08	1.24	y	1.29	44:48	1.001	0.996-1.006	155.397
PCB-85/116	7.88e+07	1.63	y	1.30	39:21	1.015	1.010-1.020	113.902	PCB-158/160	1.19e+08	1.26	y	1.34	45:02	1.006	1.001-1.011	109.828
PCB-120	5.33e+07	1.61	y	1.68	39:35	1.021	1.016-1.026	59.7850	PCB-129	3.68e+07	1.24	y	0.85	45:17	1.012	1.007-1.017	53.5715
PCB-110	4.60e+07	1.61	y	1.56	39:44	1.025	1.020-1.030	55.6483	PCB-166	5.98e+07	1.27	y	1.19	45:44	0.993	0.988-0.998	52.3002
PCB-82	3.02e+07	1.62	y	0.76	40:22	0.977	0.971-0.981	55.8661	PCB-159	5.51e+07	1.30	y	1.11	46:03	1.000	0.996-1.006	51.3802
PCB-124	5.86e+07	1.61	y	1.47	41:01	0.992	0.988-0.998	55.8658	PCB-128/162	9.94e+07	1.26	y	1.05	46:21	1.007	1.002-1.012	98.4926
PCB-107/109	1.07e+08	1.63	y	1.32	41:10	0.996	0.991-1.001	113.505	PCB-167	6.68e+07	1.27	y	1.20	46:44	1.000	0.995-1.005	55.4819
PCB-123	4.62e+07	1.64	y	1.17	41:21	1.000	0.996-1.006	55.4815	PCB-156	6.24e+07	1.23	y	1.14	48:01	1.000	0.996-1.006	52.5926
PCB-106/118	9.97e+07	1.63	y	1.17	41:33	1.001	0.996-1.006	111.566	PCB-157	6.46e+07	1.24	y	1.16	48:17	1.000	0.995-1.005	51.2576
PCB-114	7.33e+07	1.57	y	1.30	42:11	1.000	0.995-1.005	52.3367	PCB-169	6.30e+07	1.24	y	1.12	50:27	1.000	0.995-1.005	52.1999
PCB-122	6.78e+07	1.62	y	1.12	42:19	1.004	0.999-1.009	56.0637									
PCB-105	7.69e+07	1.55	y	1.30	43:03	1.000	0.995-1.005	53.4848	PCB-188	5.18e+07	1.06	y	1.58	42:50	1.000	0.996-1.006	56.0132
PCB-127	8.72e+07	1.66	y	1.33	43:23	1.000	0.996-1.006	55.4493	PCB-184	5.44e+07	1.07	y	1.63	43:17	1.011	1.006-1.016	56.9834
PCB-126	7.39e+07	1.66	y	1.18	45:16	1.000	0.995-1.005	57.6102	PCB-179	4.34e+07	1.08	y	1.30	44:04	1.029	1.024-1.034	56.8839
									PCB-176	4.98e+07	1.07	y	1.48	44:32	1.040	1.035-1.045	57.6163
PCB-155	3.10e+07	1.32	y	1.11	37:03	1.000	0.966-1.006	55.6635	PCB-186	4.81e+07	1.06	y	1.45	45:08	1.054	1.050-1.060	56.5805
PCB-150	2.85e+07	1.29	y	1.00	38:18	1.034	1.030-1.040	57.0168	PCB-178	3.47e+07	1.07	y	1.03	45:38	1.066	1.061-1.071	57.3100
PCB-152	3.17e+07	1.30	y	1.12	38:47	1.047	1.043-1.053	56.7571	PCB-175	3.54e+07	1.12	y	1.01	45:58	1.074	1.069-1.079	59.7182
PCB-145	3.55e+07	1.27	y	1.20	39:13	1.059	1.055-1.065	59.0929	PCB-182/187	8.36e+07	1.07	y	1.25	46:09	1.078	1.073-1.083	114.153
PCB-136	3.42e+07	1.27	y	1.18	39:33	1.068	1.064-1.074	57.8959	PCB-183	3.98e+07	1.07	y	1.21	46:28	1.085	1.081-1.091	56.3171
PCB-148	2.12e+07	1.32	y	0.74	39:39	1.071	1.066-1.076	56.8225	PCB-185	4.71e+07	1.09	y	1.80	47:07	0.956	0.951-0.961	58.1742
PCB-154	2.58e+07	1.28	y	0.86	40:08	1.084	1.080-1.090	60.0448	PCB-174	3.88e+07	1.07	y	1.38	47:29	0.963	0.958-0.968	62.6333
PCB-151	2.22e+07	1.27	y	0.75	40:47	1.101	1.097-1.107	59.3995	PCB-181	3.53e+07	1.06	y	1.38	47:35	0.965	0.960-0.970	56.8317
PCB-135	2.29e+07	1.26	y	0.79	40:59	1.107	1.103-1.113	57.7140	PCB-177	3.33e+07	1.08	y	1.26	47:45	0.969	0.963-0.973	59.0280
PCB-144	2.48e+07	1.31	y	0.76	41:06	1.110	1.105-1.117	65.0829	PCB-171	4.08e+07	1.07	y	1.58	48:02	0.974	0.970-0.980	57.2909
PCB-147	2.47e+07	1.30	y	0.82	41:14	1.113	1.109-1.121	60.1736	PCB-173	2.99e+07	1.08	y	1.11	48:28	0.983	0.978-0.988	59.9705
PCB-139/149	4.67e+07	1.27	y	0.76	41:30	1.121	1.116-1.128	122.419	PCB-172	4.25e+07	1.07	y	1.63	48:54	0.992	0.987-0.997	57.7963
PCB-140	2.24e+07	1.30	y	0.72	41:41	1.126	1.121-1.133	61.8581	PCB-192	4.72e+07	1.08	y	1.74	49:07	0.996	0.991-1.001	60.3577
PCB-134/143	8.06e+07	1.24	y	0.92	42:06	0.975	0.970-0.980	101.902	PCB-180	3.48e+07	1.07	y	1.34	49:19	1.000	0.995-1.005	57.5674

Integrations

by
Analyst: *DMS*

Date: *3/26/15*

Client ID: OPR
Lab ID: B5C0059-BS1

Filename: 150318E1 S:2 Acq:18-MAR-15 11:04:10
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST150318E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	4.39e+07	1.07 y	1.72	49:31	1.004	0.999-1.009	56.9376	
PCB-191	4.37e+07	1.08 y	1.69	49:46	1.009	1.004-1.014	57.4190	
PCB-170	3.33e+07	1.06 y	1.60	50:49	1.000	0.995-1.005	55.8341	
PCB-190	4.68e+07	1.08 y	2.21	50:59	1.004	0.998-1.008	56.7720	
PCB-189	4.38e+07	1.06 y	1.55	52:19	1.000	0.995-1.005	54.5394	
PCB-202	2.92e+07	0.93 y	1.08	48:15	1.000	0.995-1.005	54.3576	
PCB-201	3.12e+07	0.93 y	1.15	48:44	1.010	1.005-1.015	54.7255	
PCB-204	3.03e+07	0.91 y	1.14	48:53	1.013	1.008-1.018	53.7005	
PCB-197	2.85e+07	0.92 y	1.07	49:11	1.020	1.015-1.025	53.4912	
PCB-200	2.90e+07	0.90 y	1.06	50:04	1.038	1.032-1.044	54.9869	
PCB-198	2.20e+07	0.90 y	0.76	51:25	1.066	1.059-1.069	58.7756	
PCB-199	2.20e+07	0.93 y	0.80	51:31	1.068	1.061-1.071	55.6406	
- PCB-196/203	4.63e+07	0.92 y	0.80	51:47	1.074	1.066-1.076	116.450	
- PCB-195	4.21e+07	0.93 y	1.23	52:57	0.984	0.979-0.989	49.7405	
PCB-194	4.22e+07	0.92 y	1.21	53:49	1.000	0.995-1.005	50.4719	
PCB-205	5.82e+07	0.93 y	1.54	54:06	1.006	1.001-1.011	54.6963	
PCB-208	4.32e+07	1.35 y	0.93	53:06	1.000	0.995-1.005	55.4948	
PCB-207	5.30e+07	1.36 y	1.08	53:25	1.006	1.001-1.011	58.4694	
PCB-206	3.21e+07	1.36 y	1.02	55:26	1.000	0.995-1.005	54.5313	
PCB-209	3.77e+07	1.19 y	1.17	56:48	1.000	0.995-1.005	55.7969	

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	2.30e+08	2.95 y	16:10	1.27	133.993	
Total Di-PCB	2.04e+09	1.64 y	20:09	1.21	1283.61	
Total Tri-PCB	5.44e+08	1.07 y	24:15	1.10	446.413	
Total Tri-PCB	1.55e+09	1.10 y	27:56	1.21	909.631	Sum:1356.04
Total Tetra-PCB	2.93e+09	0.77 y	28:00	1.09	2331.39	
Total Penta-PCB	1.72e+09	1.62 y	32:40	1.18	2361.37	
Total Penta-PCB	4.00e+08	1.57 y	42:11	1.25	289.900	Sum:2651.27
Total Hexa-PCB	3.72e+08	1.32 y	37:03	0.90	829.941	
Total Hexa-PCB	1.46e+09	1.24 y	42:06	1.11	1479.42	Sum:2309.36
Total Hepta-PCB	1.01e+09	1.06 y	42:50	1.42	1395.34	
Total Octa-PCB	2.39e+08	0.93 y	48:15	0.96	502.128	
Total Octa-PCB	1.46e+08	0.93 y	52:57	1.33	159.103	Sum:661.230
Total Nona-PCB	1.29e+08	1.35 y	53:06	1.01	169.290	
Total Deca-PCB	3.77e+07	1.19 y	56:48	1.17	55.7969	

Total PCB Conc:12266.8260710

Integrations
by
Analyst: DMS
Date: 3/26/15

Client ID: OPR
Lab ID: B5C0059-BS1

Filename: 150318E1 S:2 Acq:18-MAR-15 11:04:10
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

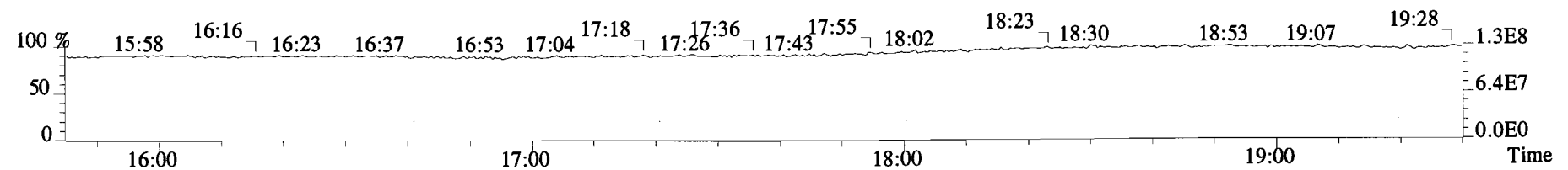
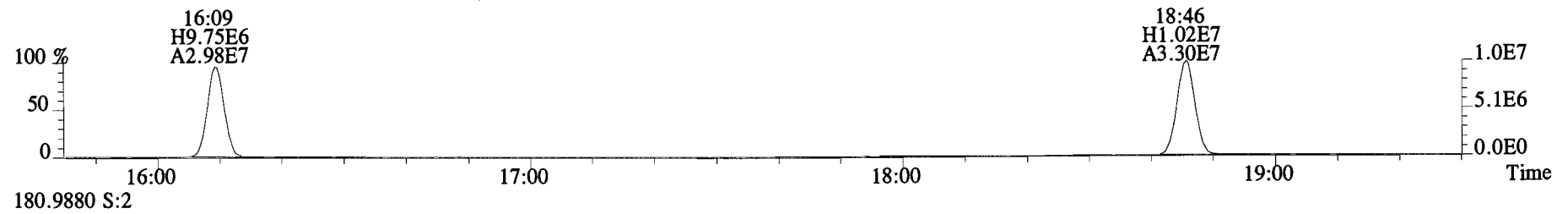
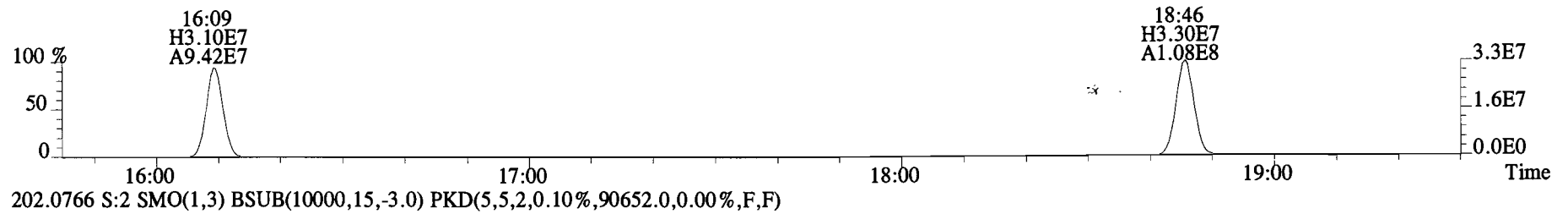
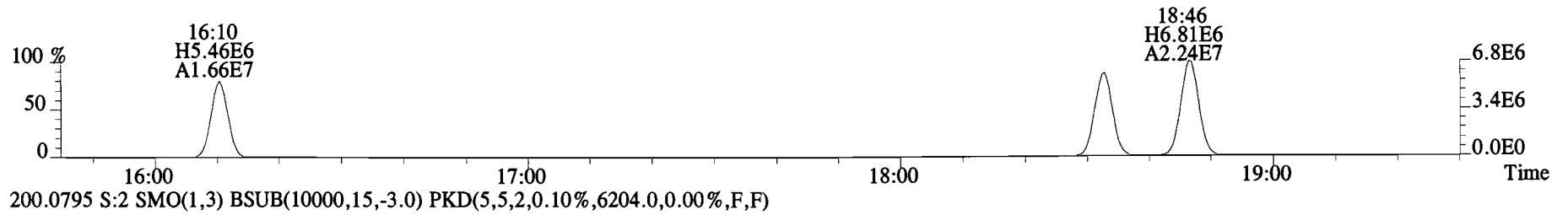
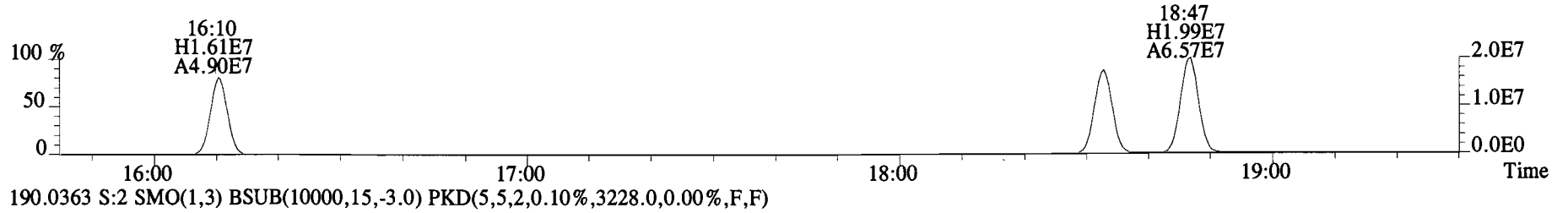
ConCal: ST150318E1-1
EndCAL: NA

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	1.24e+08	3.16	y	0.87	16:09	0.622	0.629-0.635	71.4	71.4											
13C-PCB-3	1.41e+08	3.27	y	0.91	18:46	0.723	0.725-0.733	77.6	77.6		13C-PCB-79	1.46e+08	0.81	y	1.02	37:48	1.029	1.023-1.034	92.9	92.9
13C-PCB-4	8.02e+07	1.59	y	0.59	20:05	0.774	0.775-0.783	68.7	68.7		13C-PCB-178	4.07e+07	0.47	y	0.61	45:36	0.985	0.979-0.990	85.4	85.4
13C-PCB-9	1.31e+08	1.60	y	0.90	21:52	0.843	0.842-0.850	73.6	73.6											
13C-PCB-11	1.48e+08	1.55	y	0.94	25:15	0.973	0.968-0.978	79.4	79.4											
13C-PCB-19	8.05e+07	1.08	y	0.53	24:13	0.933	0.930-0.940	76.1	76.1											
13C-PCB-28	1.40e+08	1.08	y	0.93	29:05	1.003	0.999-1.009	94.1	94.1		13C-PCB-79	1.46e+08	0.81	y	1.10	37:48	0.969	0.964-0.974	98.0	98.0
13C-PCB-32	1.26e+08	1.10	y	0.80	27:08	1.046	1.040-1.050	79.5	79.5		13C-PCB-178	4.07e+07	0.47	y	0.90	45:36	0.925	0.920-0.930	101	101
13C-PCB-37	1.45e+08	1.06	y	0.84	32:57	1.137	1.131-1.143	108	108											
13C-PCB-47	1.01e+08	0.78	y	0.81	32:00	0.871	0.866-0.874	80.7	80.7											
13C-PCB-52	9.52e+07	0.80	y	0.77	31:30	0.858	0.853-0.861	80.1	80.1											
13C-PCB-54	1.06e+08	0.82	y	0.97	27:58	0.761	0.758-0.766	70.9	70.9											
13C-PCB-70	1.39e+08	0.82	y	1.00	35:30	0.966	0.961-0.971	90.2	90.3											
13C-PCB-77	1.40e+08	0.83	y	0.94	39:36	1.078	1.073-1.083	96.2	96.2											
13C-PCB-80	1.42e+08	0.82	y	1.03	35:55	0.978	0.972-0.982	89.5	89.5											
13C-PCB-81	1.35e+08	0.82	y	0.92	39:01	1.062	1.057-1.067	94.8	94.8											
13C-PCB-95	5.26e+07	1.61	y	0.74	35:48	0.913	0.908-0.918	87.3	87.3											
13C-PCB-97	5.32e+07	1.61	y	0.70	38:46	0.989	0.984-0.994	92.8	92.8											
13C-PCB-101	5.77e+07	1.63	y	0.78	37:29	0.956	0.951-0.961	90.5	90.5											
13C-PCB-104	6.62e+07	1.58	y	1.00	32:39	0.833	0.828-0.836	81.3	81.3											
13C-PCB-105	1.11e+08	1.59	y	1.37	43:02	0.929	0.924-0.934	104	104											
13C-PCB-114	1.08e+08	1.62	y	1.36	42:10	0.910	0.905-0.915	102	102											
13C-PCB-118	7.62e+07	1.58	y	0.96	41:31	1.059	1.054-1.064	97.8	97.8											
13C-PCB-123	7.13e+07	1.59	y	0.89	41:20	1.054	1.050-1.060	98.1	98.1											
13C-PCB-126	1.09e+08	1.60	y	1.31	45:16	0.977	0.972-0.982	107	107											
13C-PCB-127	1.18e+08	1.59	y	1.47	43:22	0.936	0.931-0.941	103	103											
13C-PCB-138	8.06e+07	1.30	y	1.10	44:46	0.967	0.961-0.971	94.3	94.3											
13C-PCB-141	7.83e+07	1.29	y	1.07	43:55	0.948	0.943-0.953	93.8	93.8											
13C-PCB-153	8.62e+07	1.26	y	1.15	43:11	0.932	0.927-0.937	96.8	96.8											
13C-PCB-155	5.01e+07	1.27	y	0.84	37:02	0.945	0.939-0.949	73.4	73.4											
13C-PCB-156	1.04e+08	1.27	y	1.30	48:01	1.037	1.032-1.042	104	104											
13C-PCB-157	1.08e+08	1.29	y	1.36	48:17	1.042	1.038-1.048	103	103											
13C-PCB-159	9.64e+07	1.27	y	1.25	46:03	0.994	0.989-0.999	99.5	99.5											
13C-PCB-167	1.00e+08	1.28	y	1.35	46:44	1.009	1.004-1.014	95.5	95.5											
13C-PCB-169	1.08e+08	1.31	y	1.29	50:26	1.089	1.083-1.093	108	108											
13C-PCB-170	3.73e+07	0.46	y	0.54	50:48	1.097	1.089-1.101	88.5	88.5											
13C-PCB-180	4.50e+07	0.47	y	0.68	49:18	1.064	1.060-1.070	84.6	84.6											
13C-PCB-188	5.85e+07	0.48	y	0.92	42:49	0.924	0.919-0.929	82.0	82.0											
13C-PCB-189	5.18e+07	0.46	y	0.72	52:18	1.129	1.120-1.132	93.0	93.0											
13C-PCB-194	6.91e+07	0.91	y	0.80	53:48	0.995	0.990-1.000	91.0	91.0											
13C-PCB-202	4.96e+07	0.93	y	0.84	48:14	1.041	1.036-1.046	76.2	76.2											
13C-PCB-206	5.75e+07	0.79	y	0.65	55:25	1.025	1.021-1.031	93.1	93.1											
13C-PCB-208	8.36e+07	0.78	y	1.08	53:05	0.982	0.976-0.986	81.3	81.3											
13C-PCB-209	5.77e+07	1.21	y	0.61	56:48	1.050	1.045-1.055	99.4	99.4											

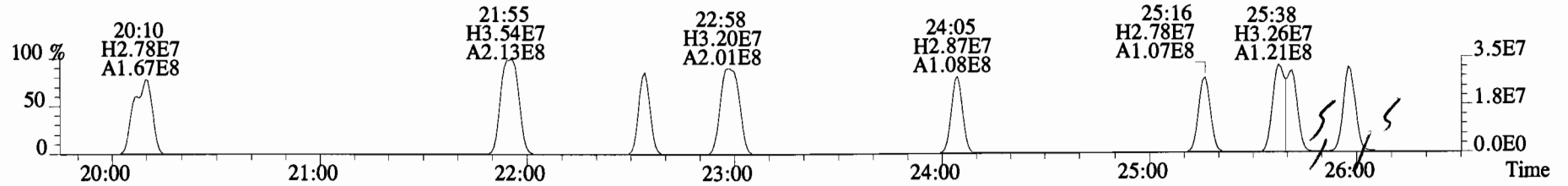
Analyst: *JMS*

Date: *3/26/15*

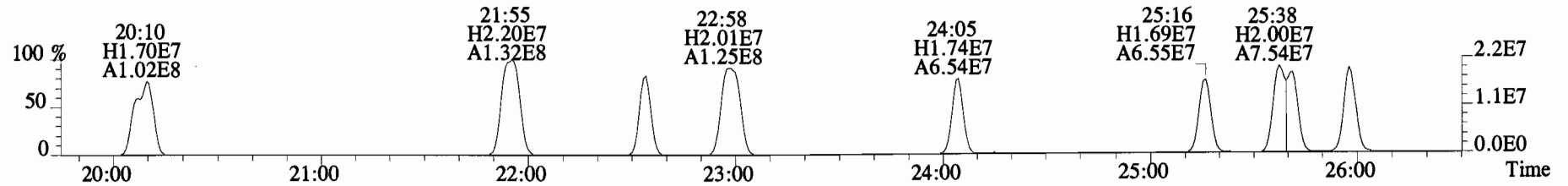
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4484.0,0.00%,F,F)



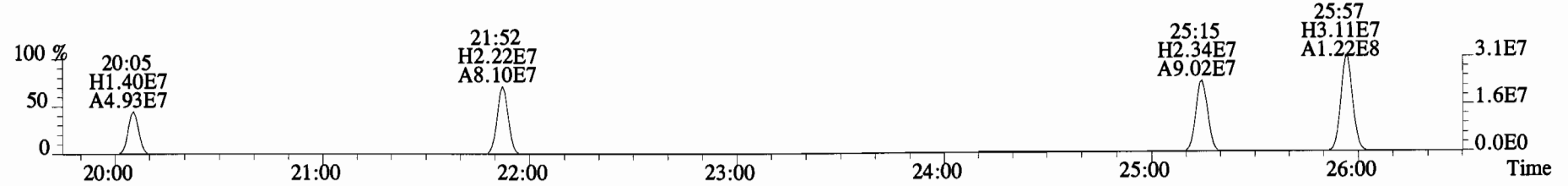
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,12588.0,0.00%,F,F)



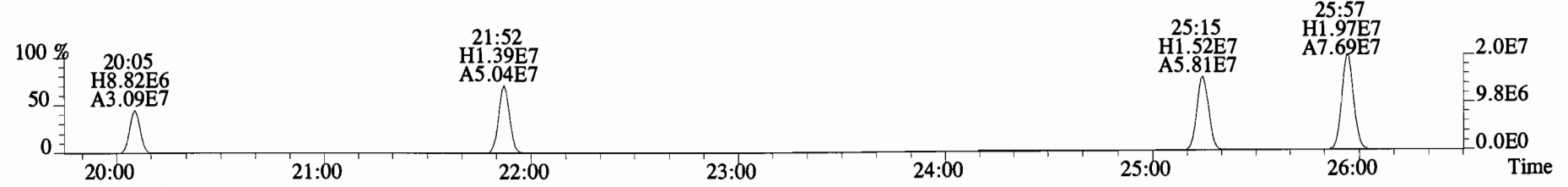
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,32060.0,0.00%,F,F)



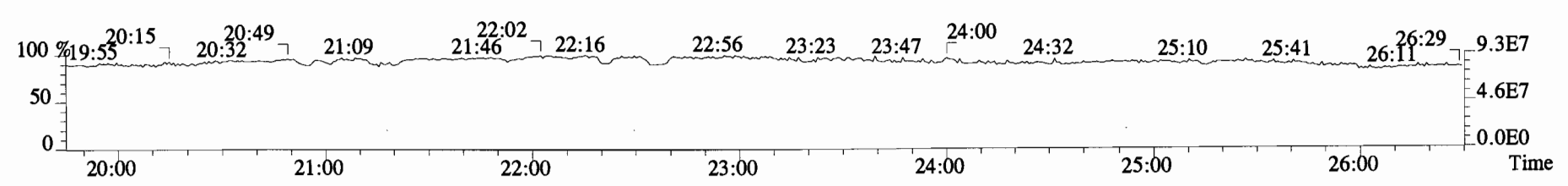
224.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5956.0,0.00%,F,F)



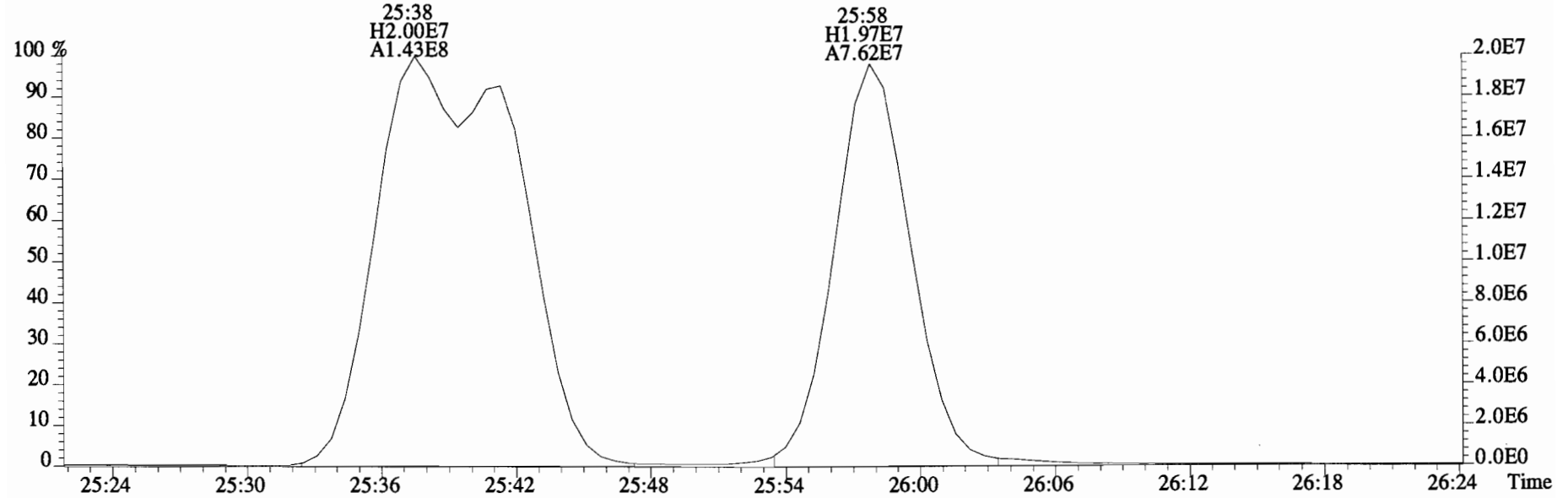
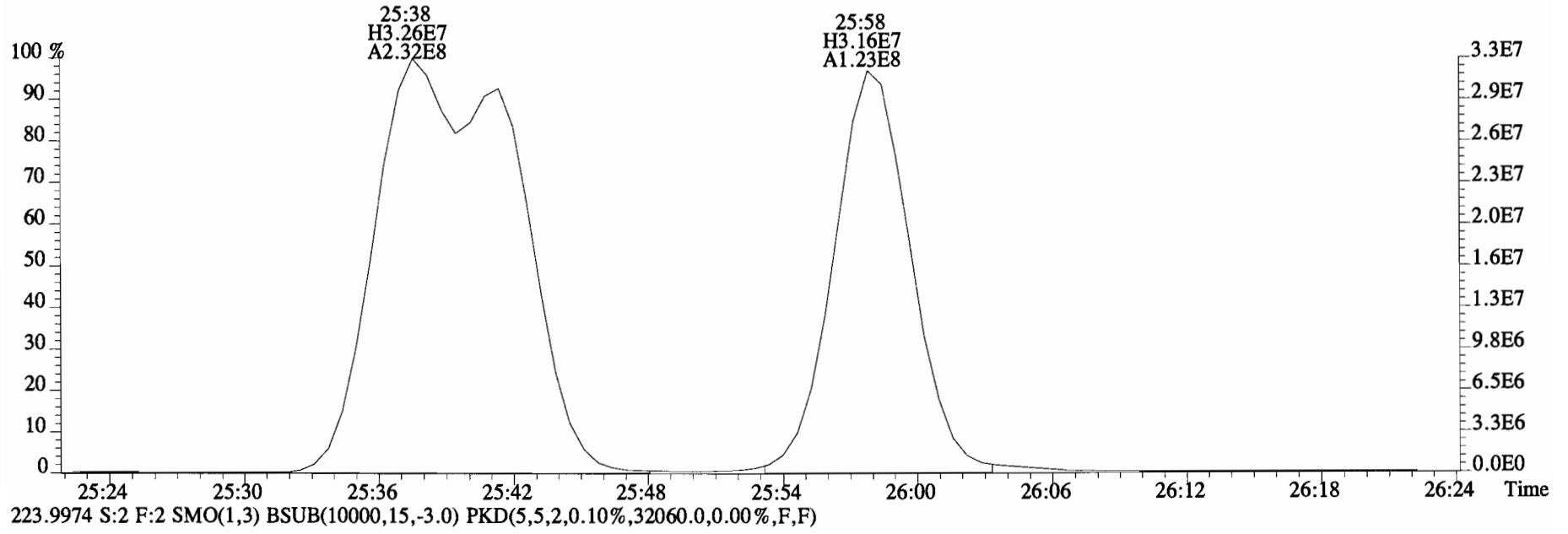
226.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4208.0,0.00%,F,F)



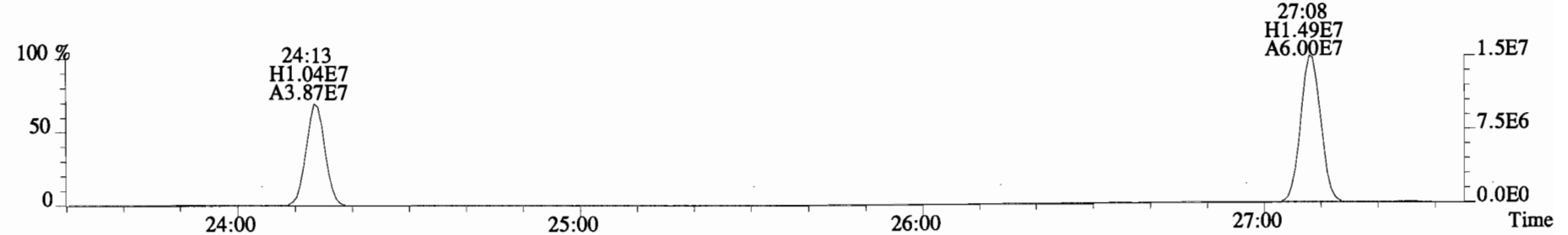
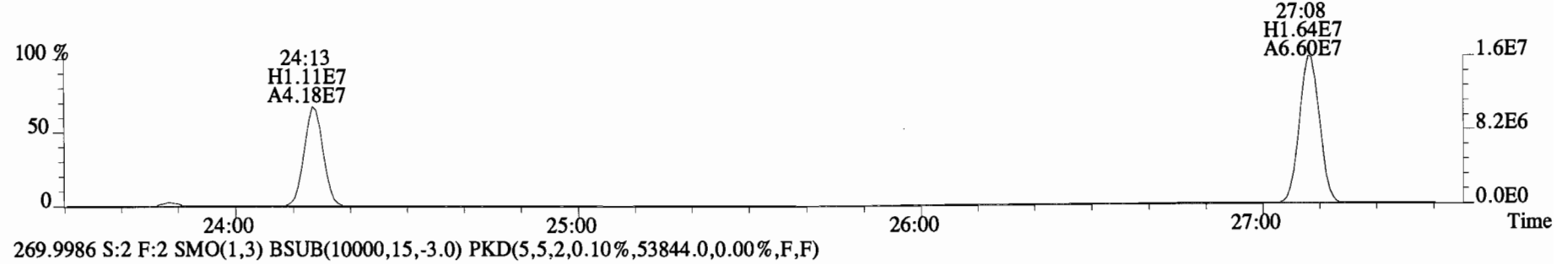
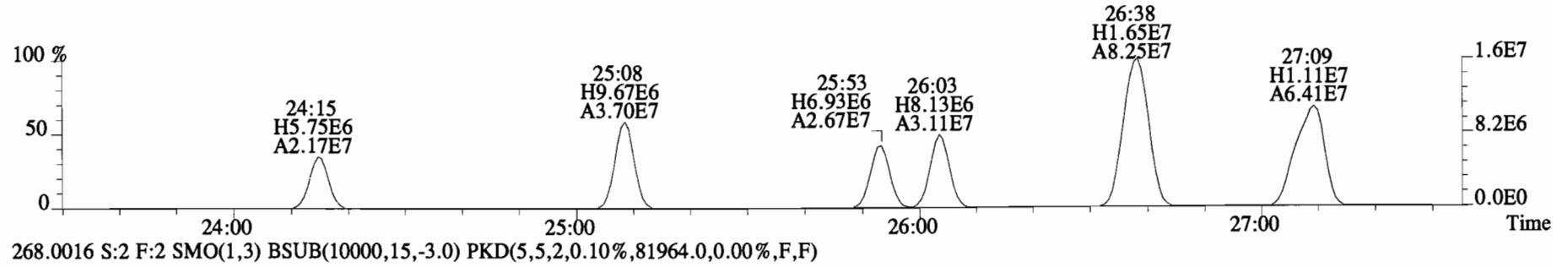
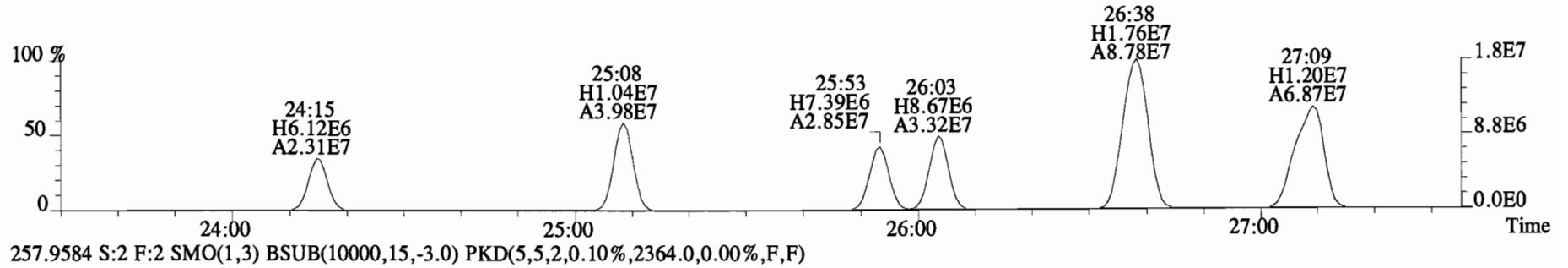
230.9856 S:2 F:2



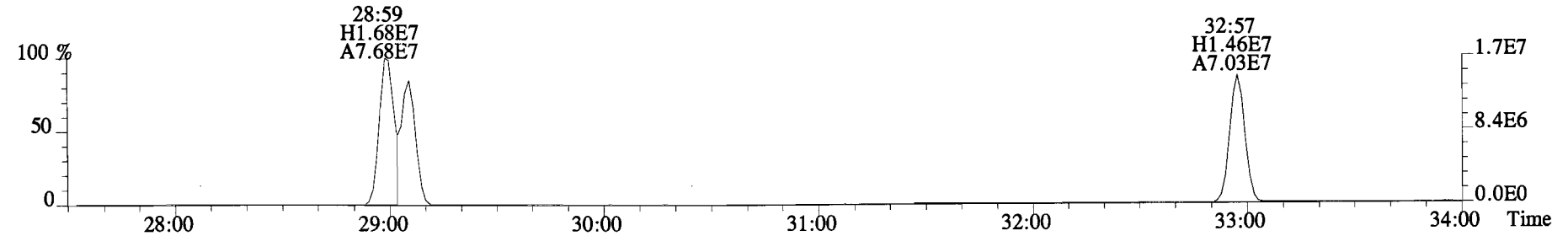
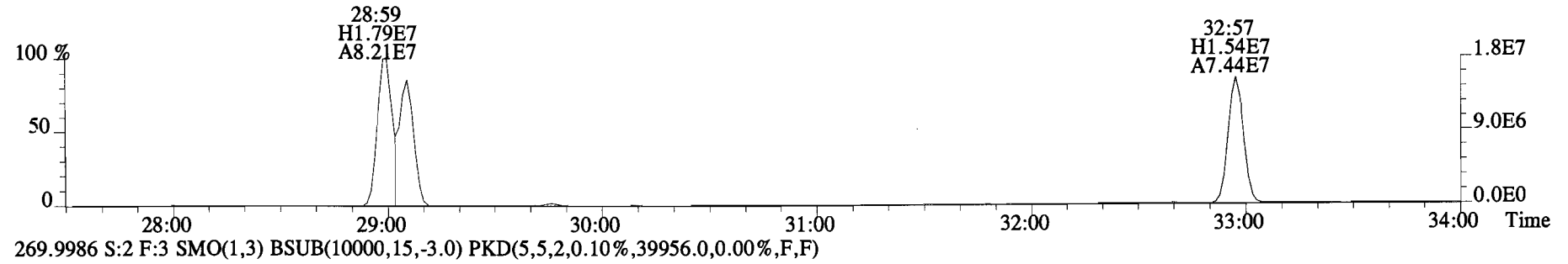
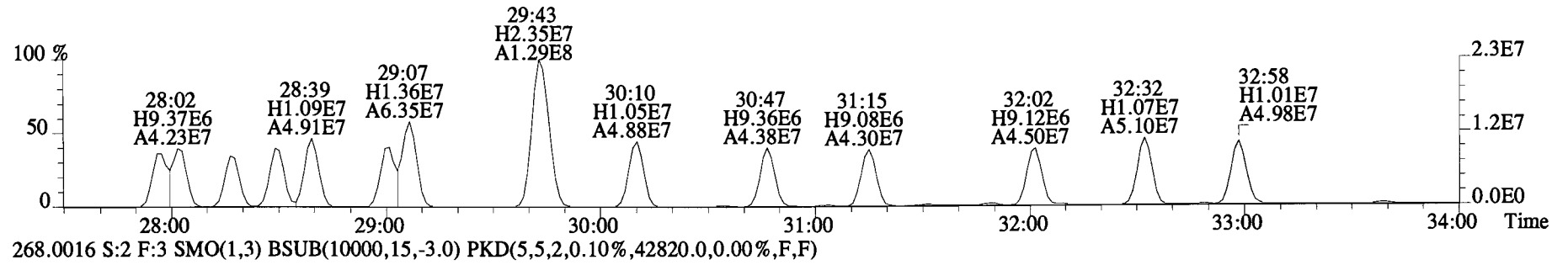
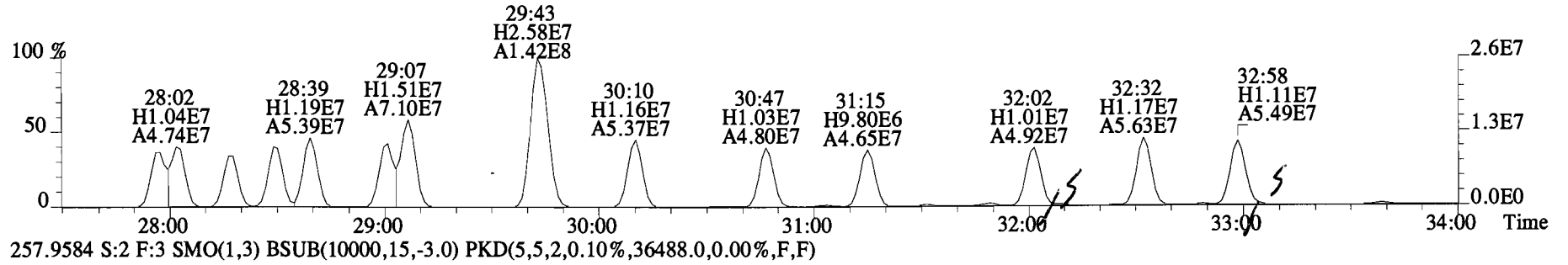
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222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,12588.0,0.00%,F,F)



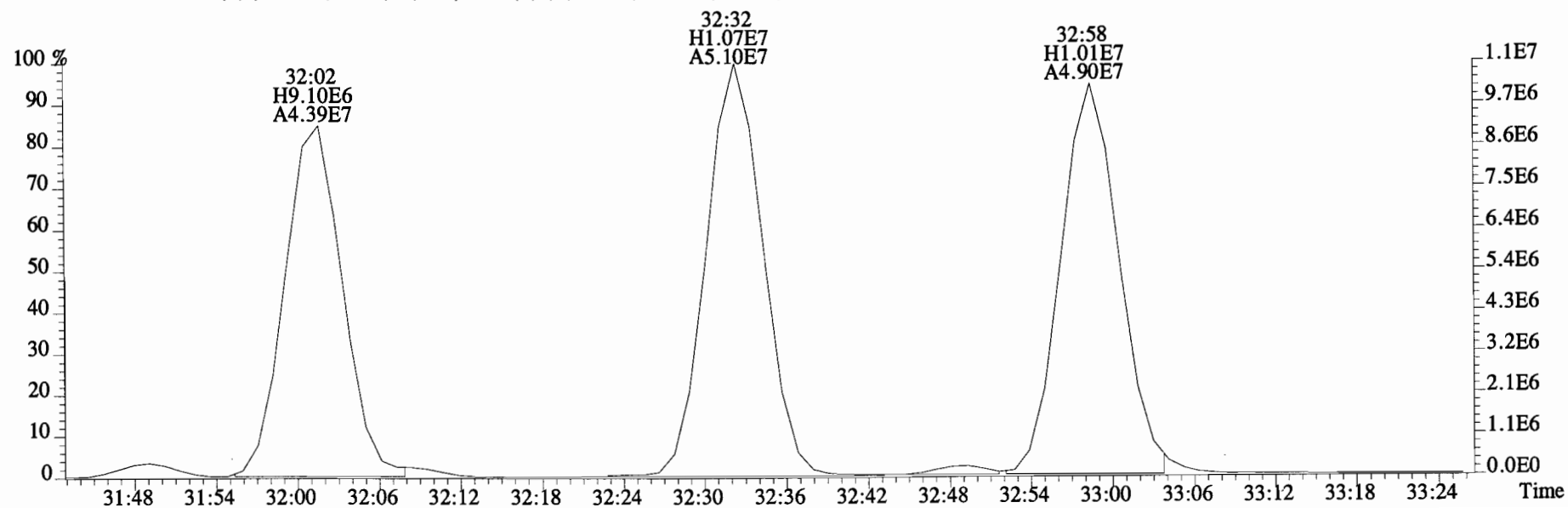
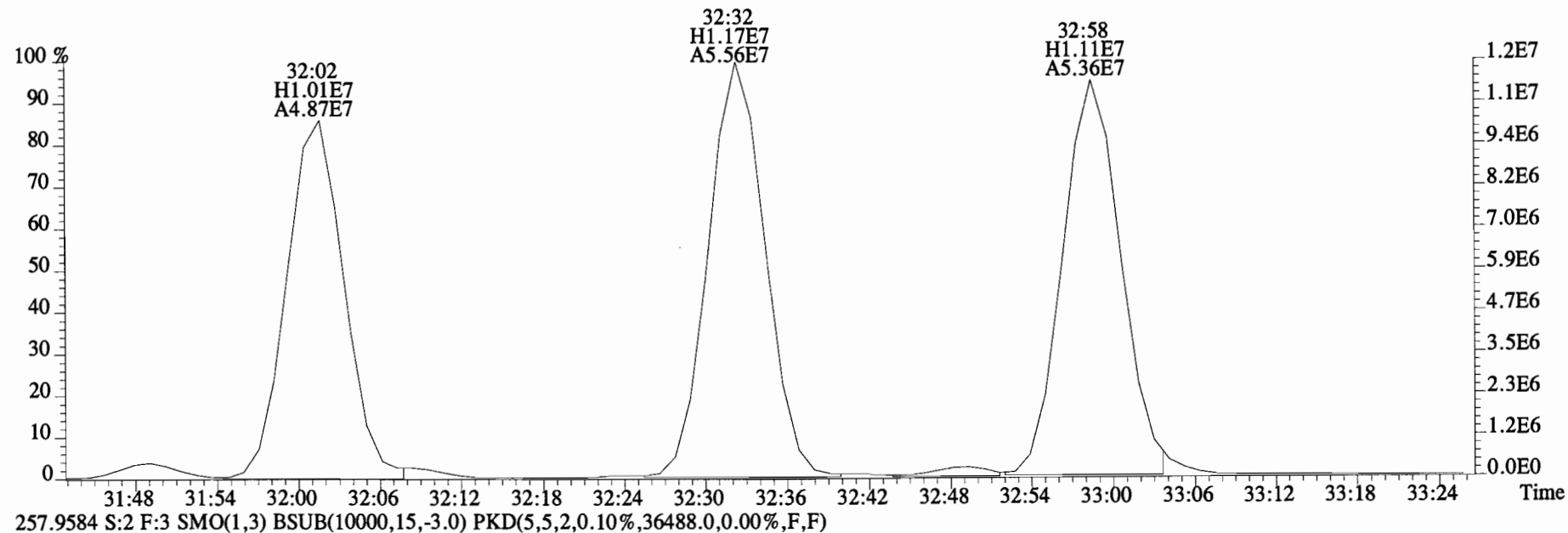
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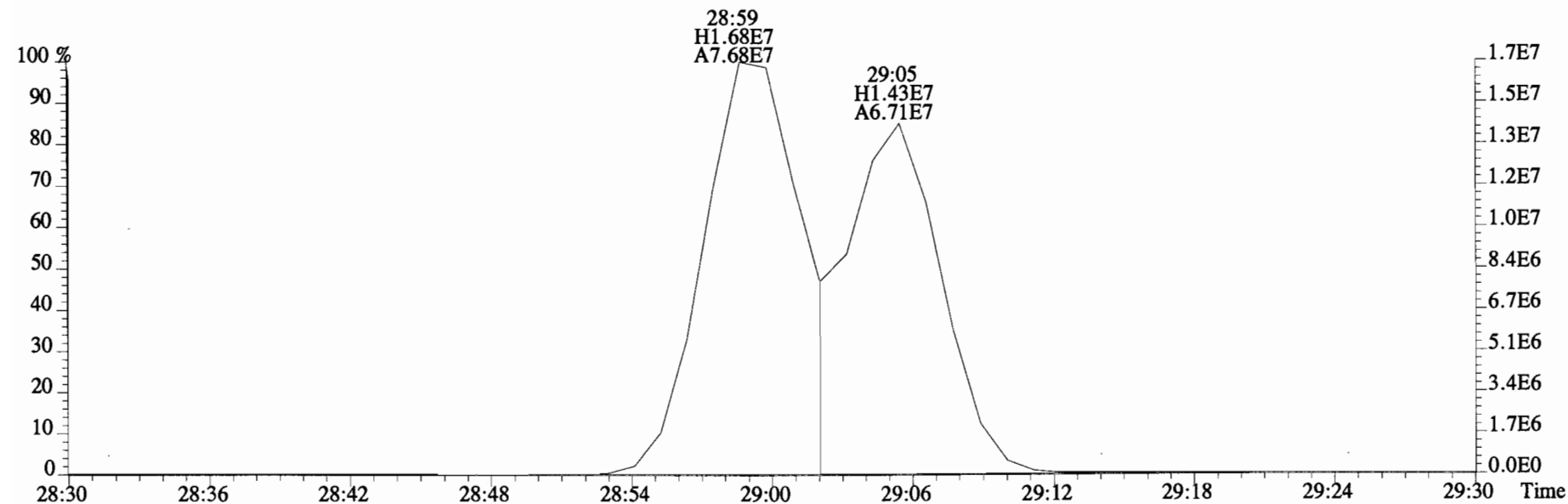
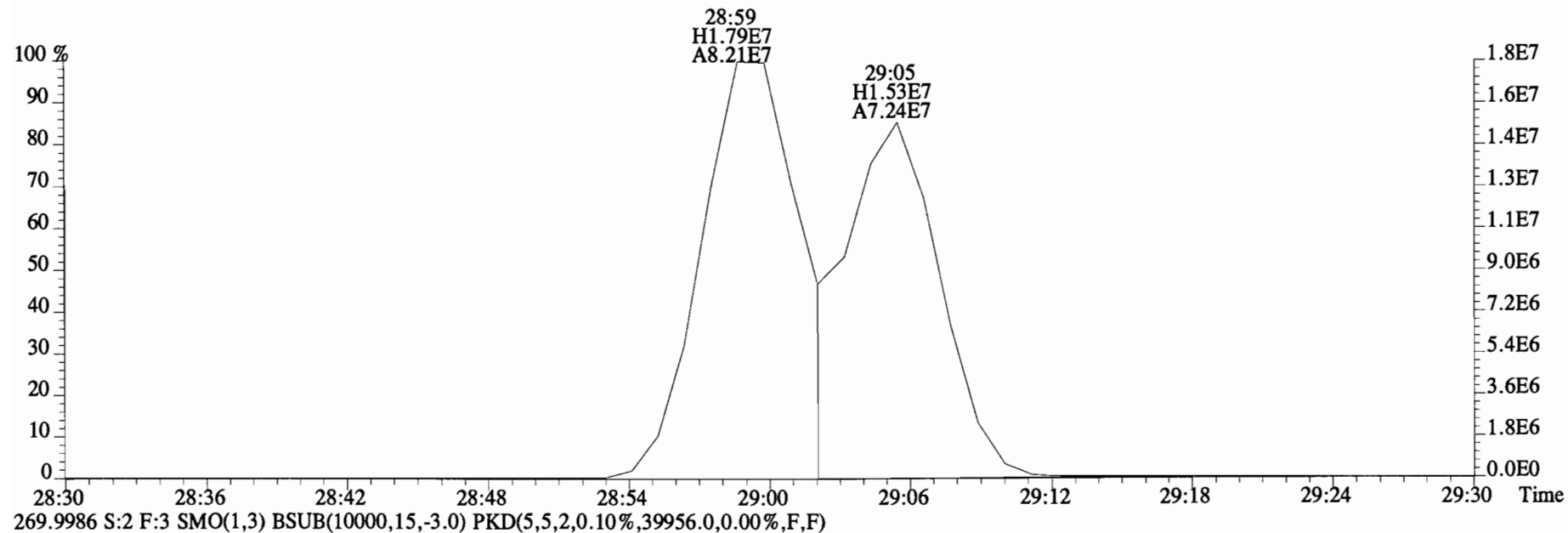
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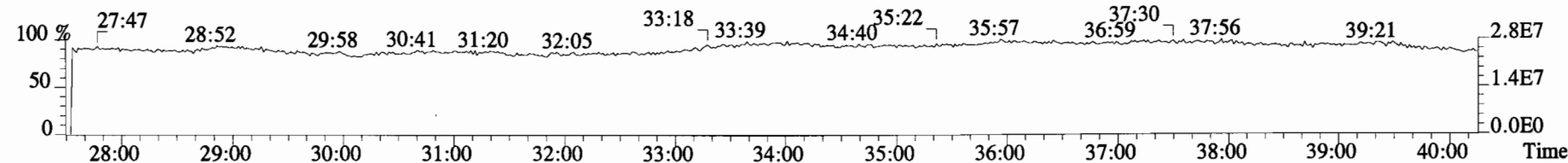
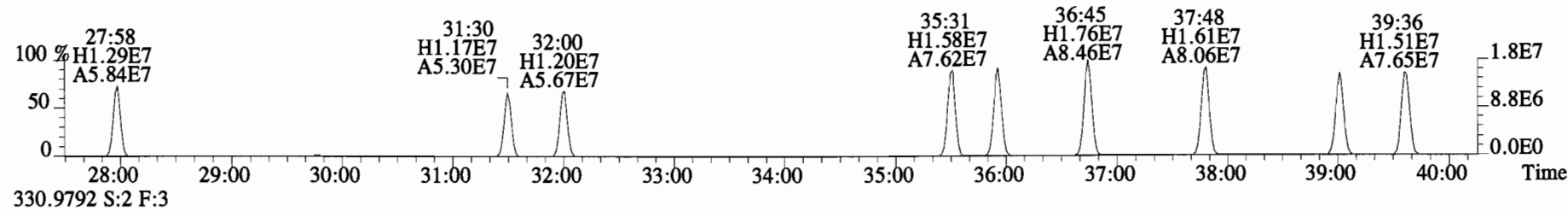
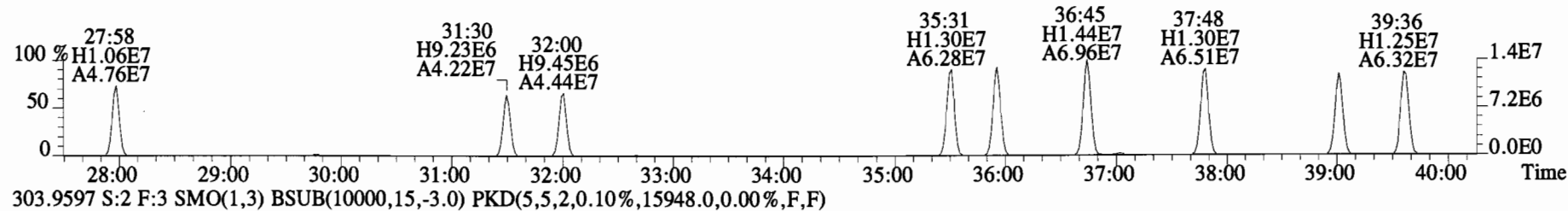
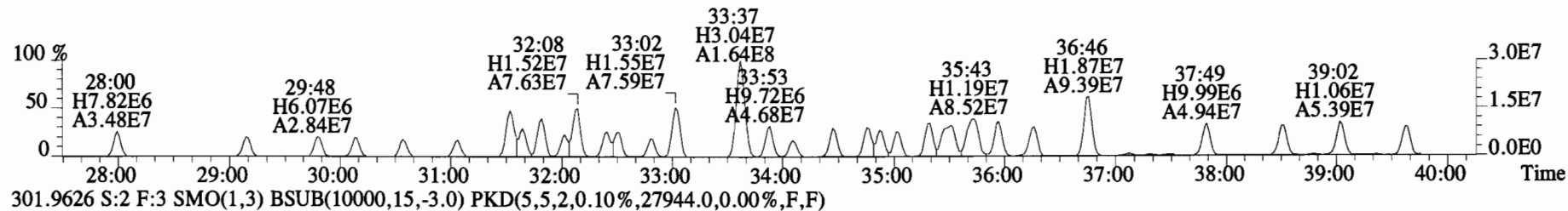
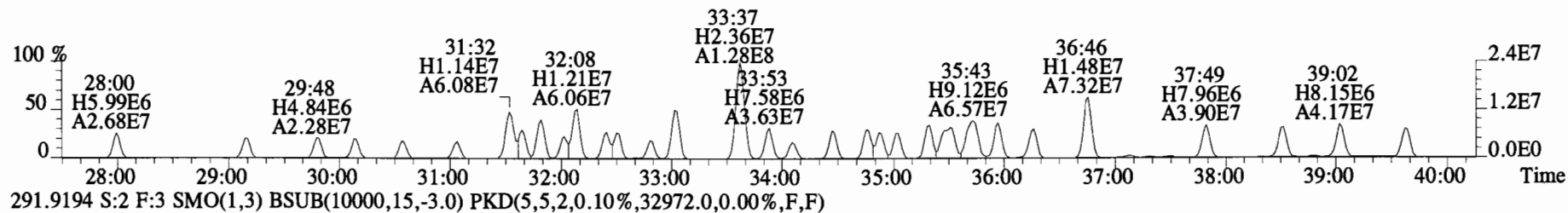
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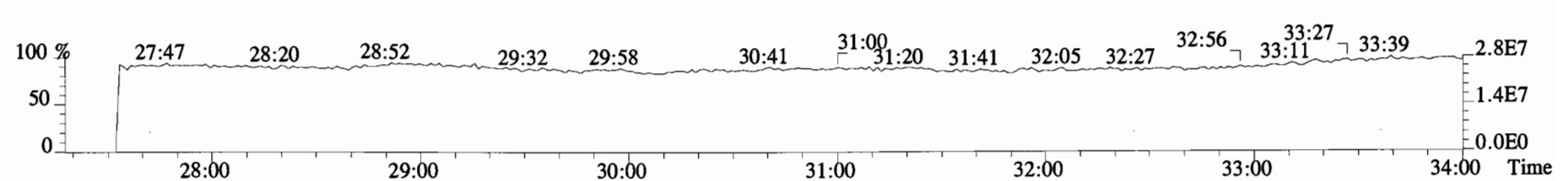
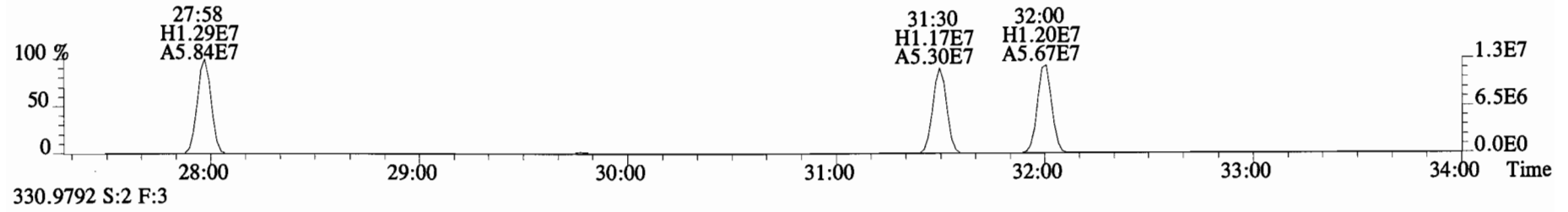
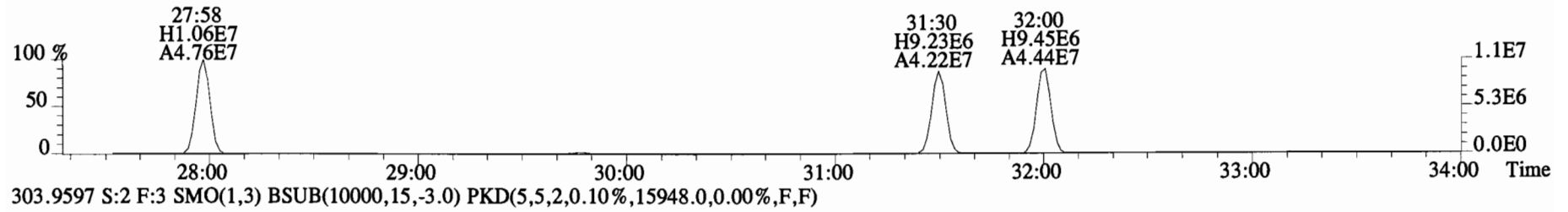
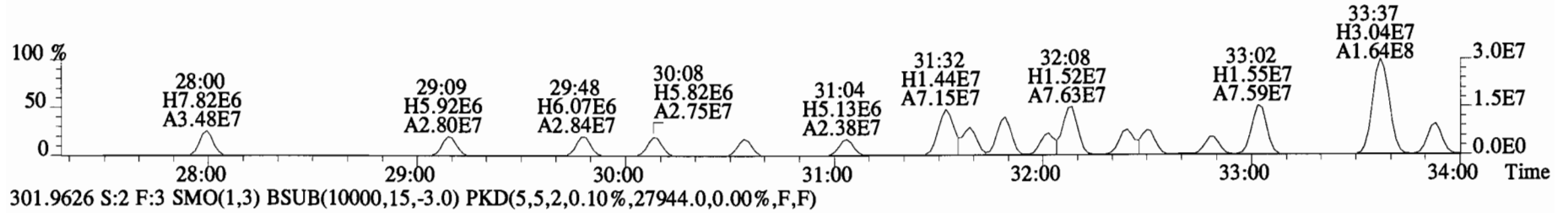
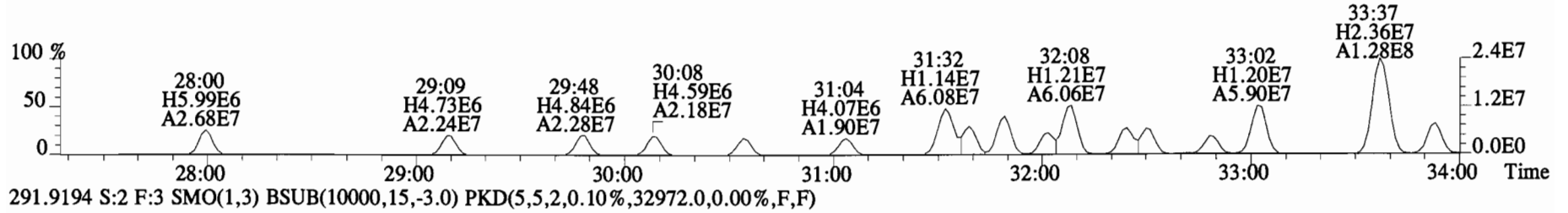
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268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,42820.0,0.00%,F,F)



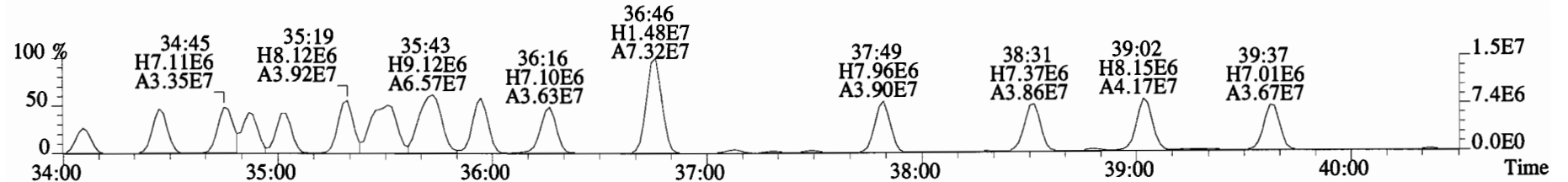
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,25620.0,0.00%,F,F)



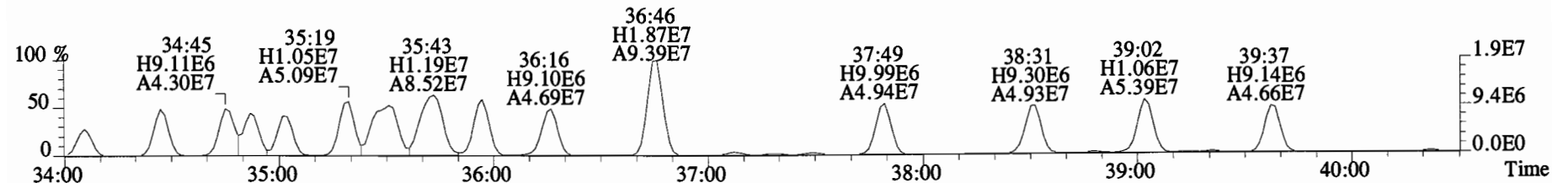
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,25620.0,0.00%,F,F)



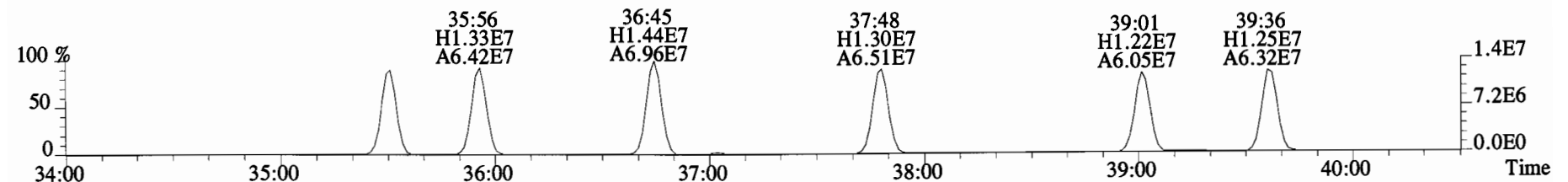
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,25620.0,0.00%,F,F)



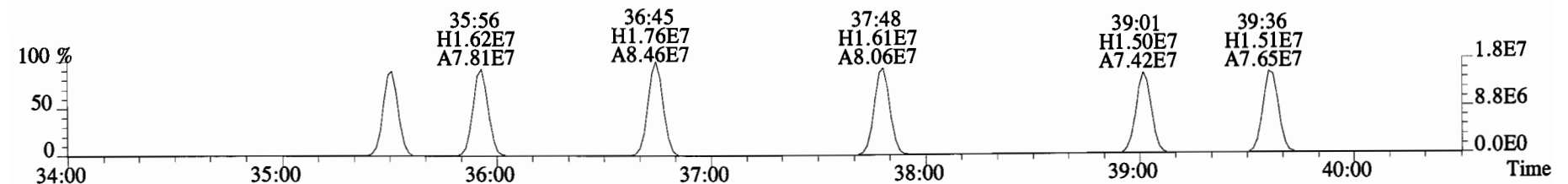
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,32972.0,0.00%,F,F)



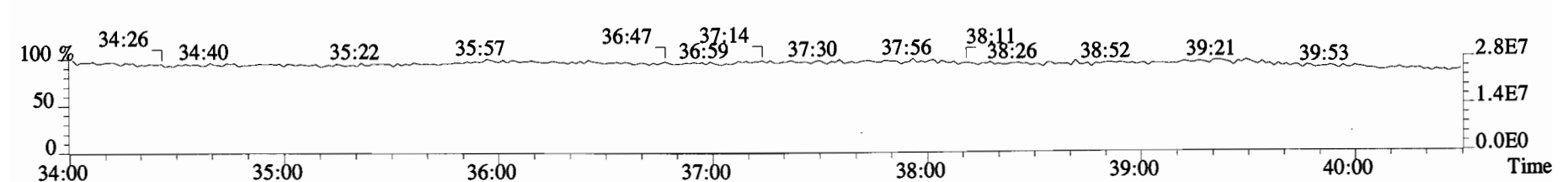
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,27944.0,0.00%,F,F)



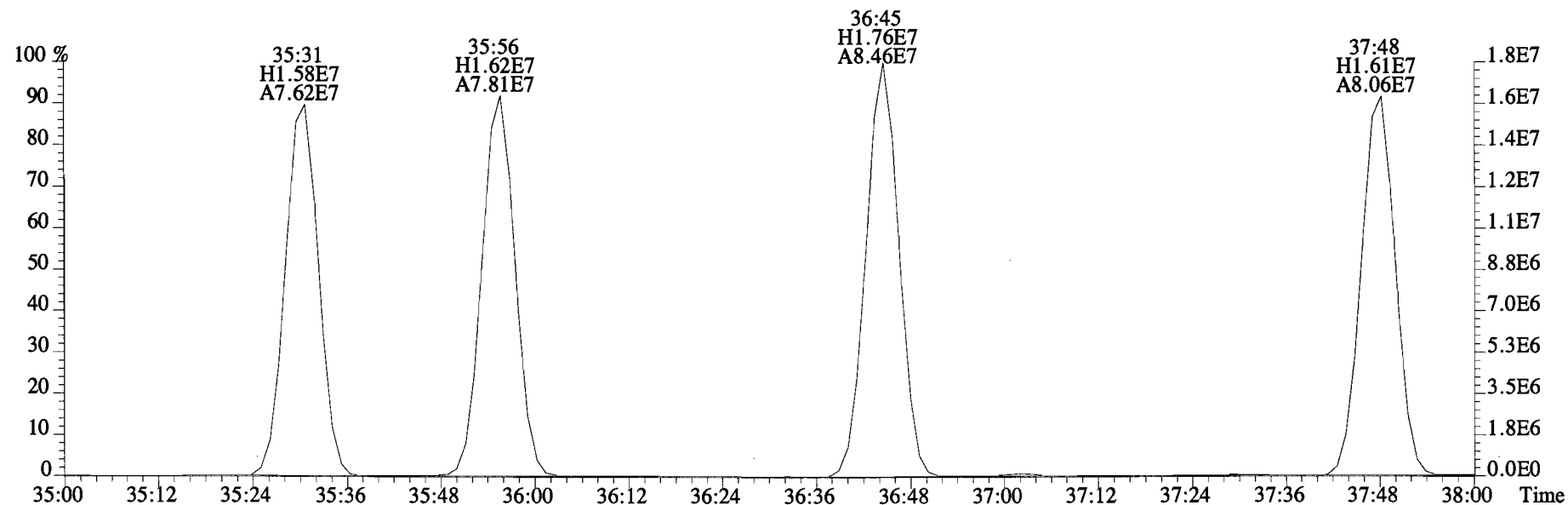
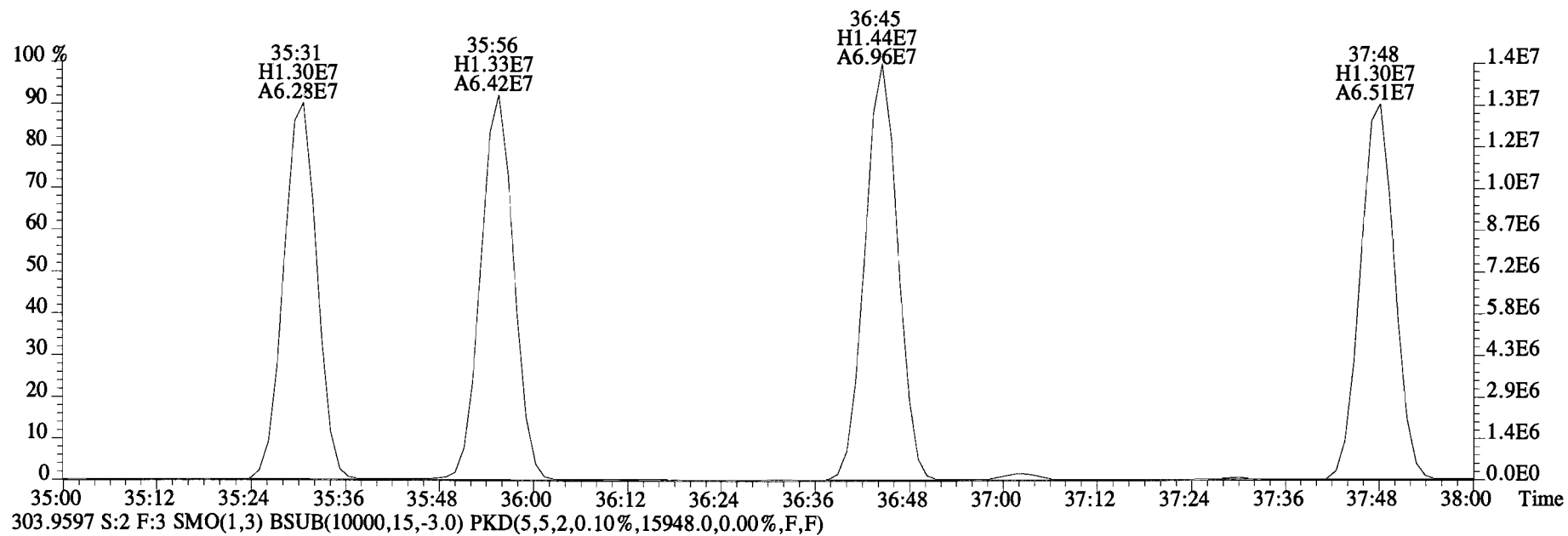
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,15948.0,0.00%,F,F)



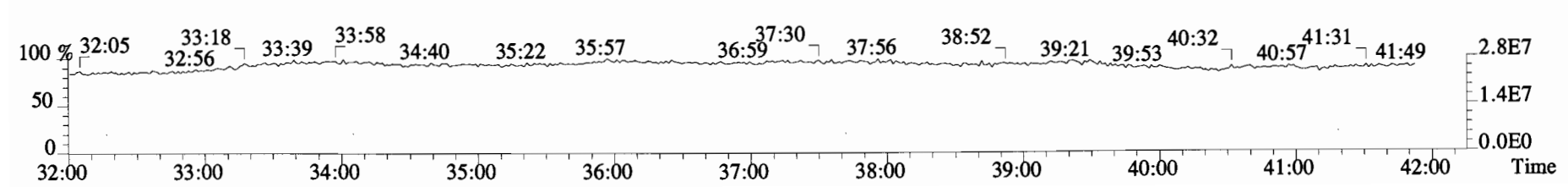
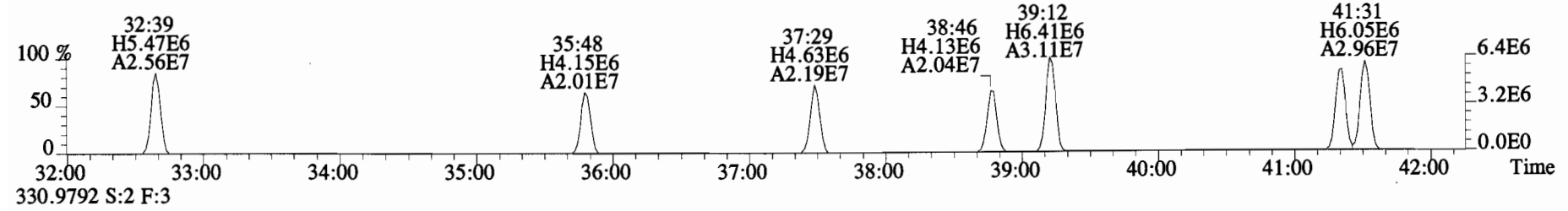
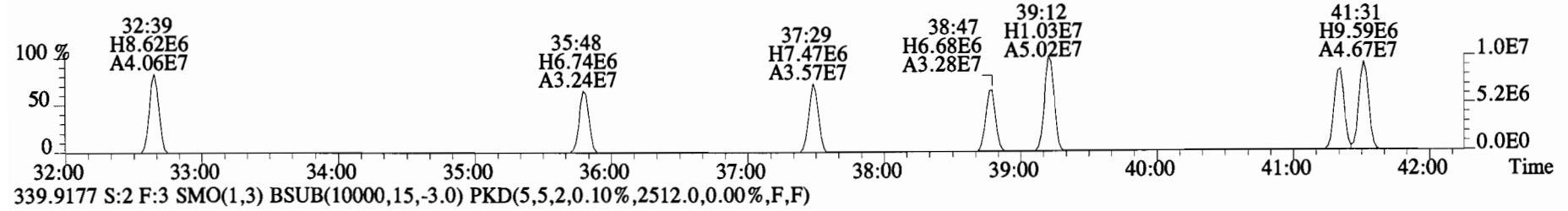
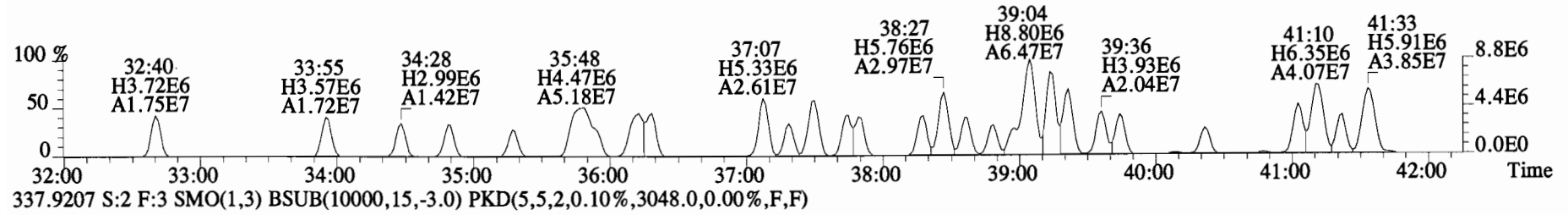
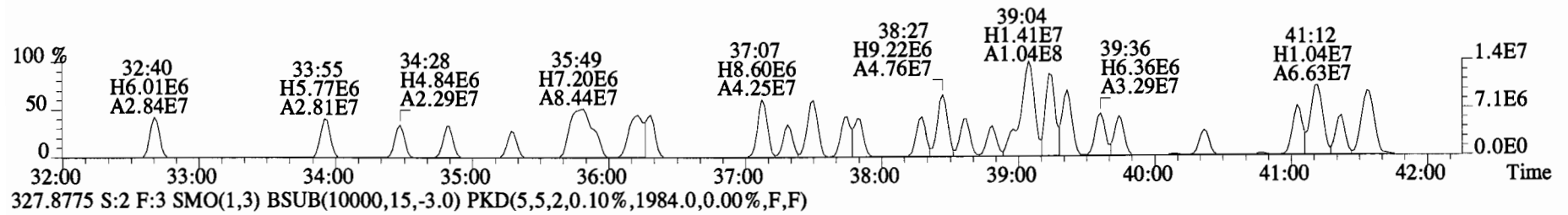
330.9792 S:2 F:3



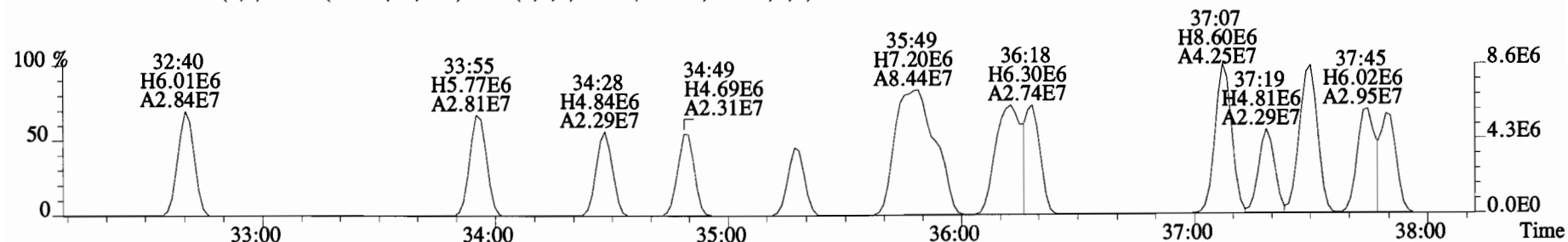
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,27944.0,0.00%,F,F)



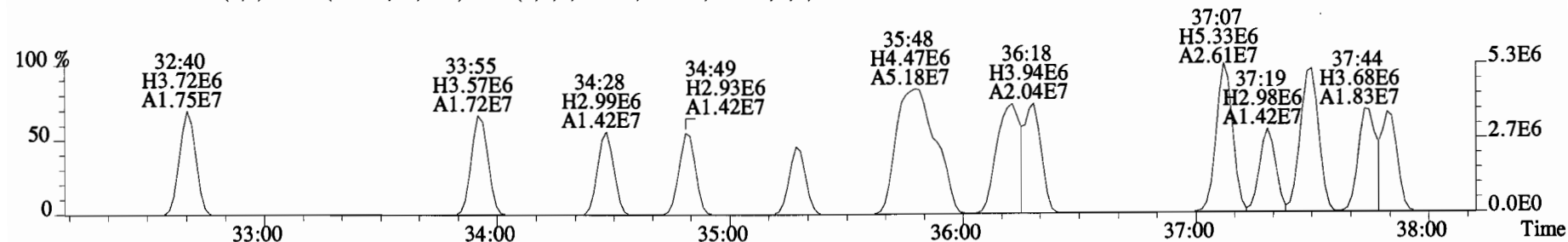
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2032.0,0.00%,F,F)



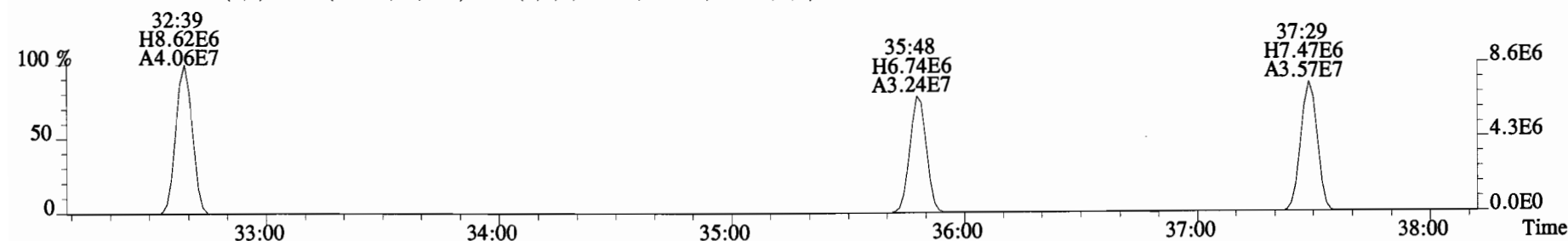
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2032.0,0.00%,F,F)



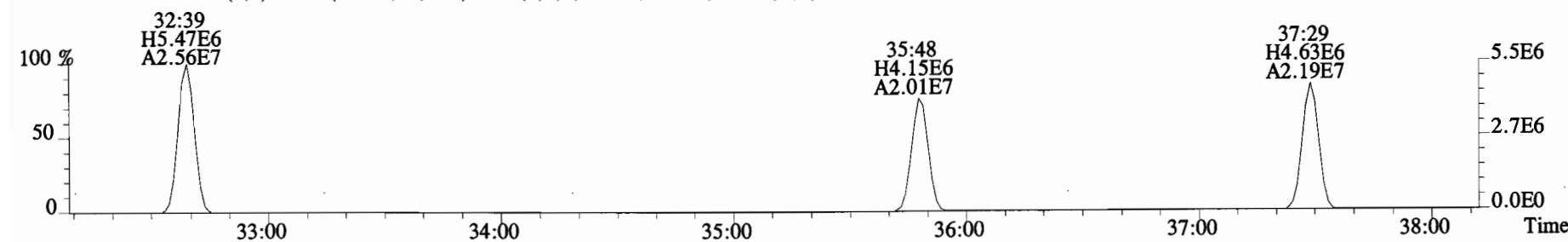
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



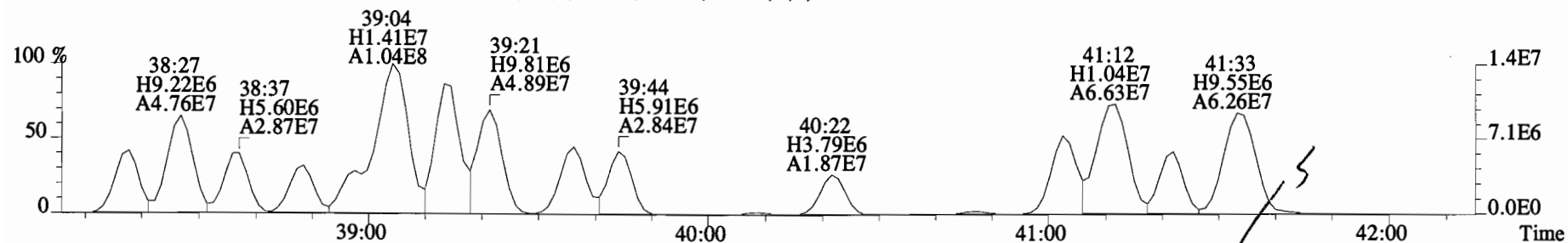
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3048.0,0.00%,F,F)



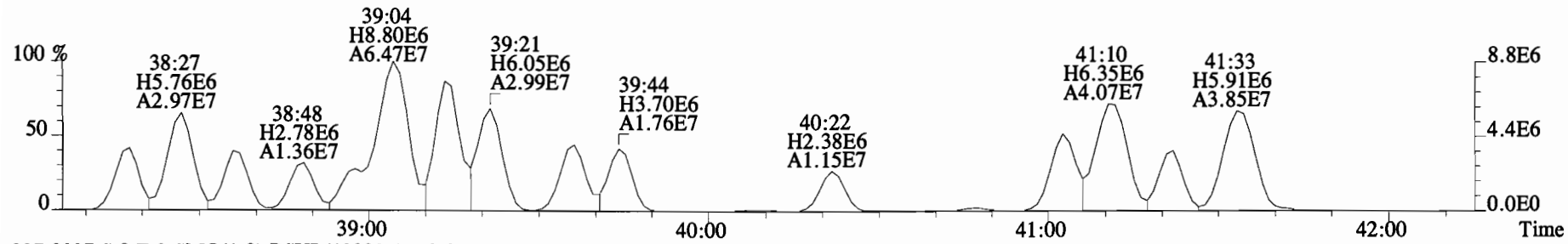
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2512.0,0.00%,F,F)



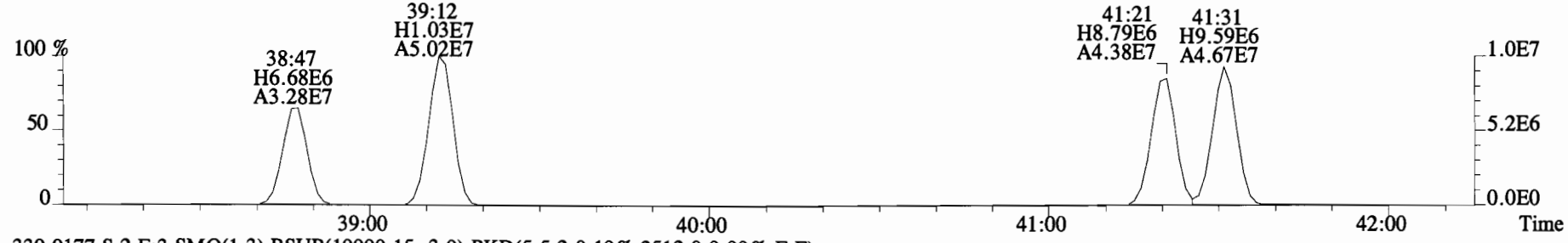
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2032.0,0.00%,F,F)



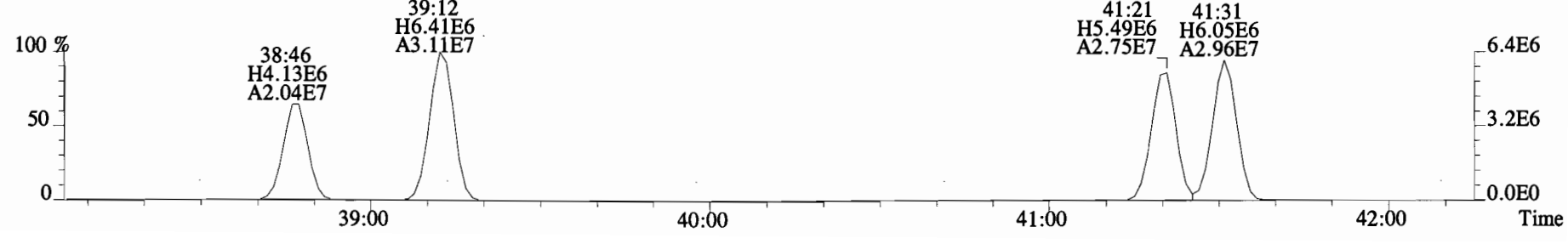
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



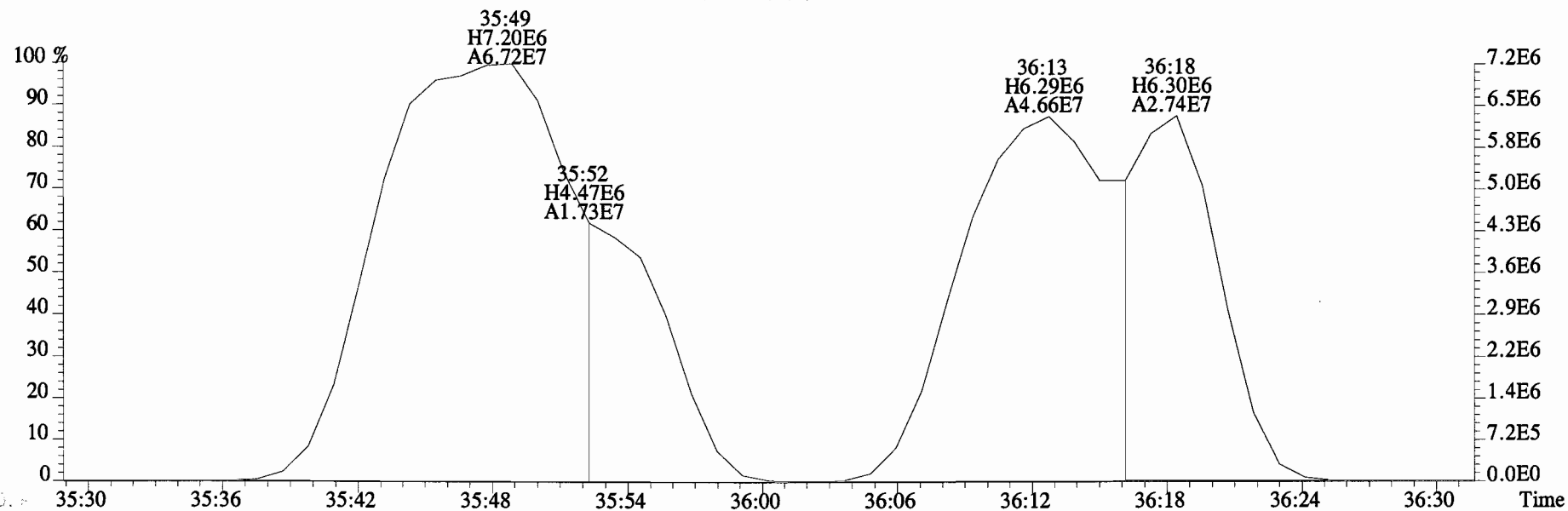
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3048.0,0.00%,F,F)



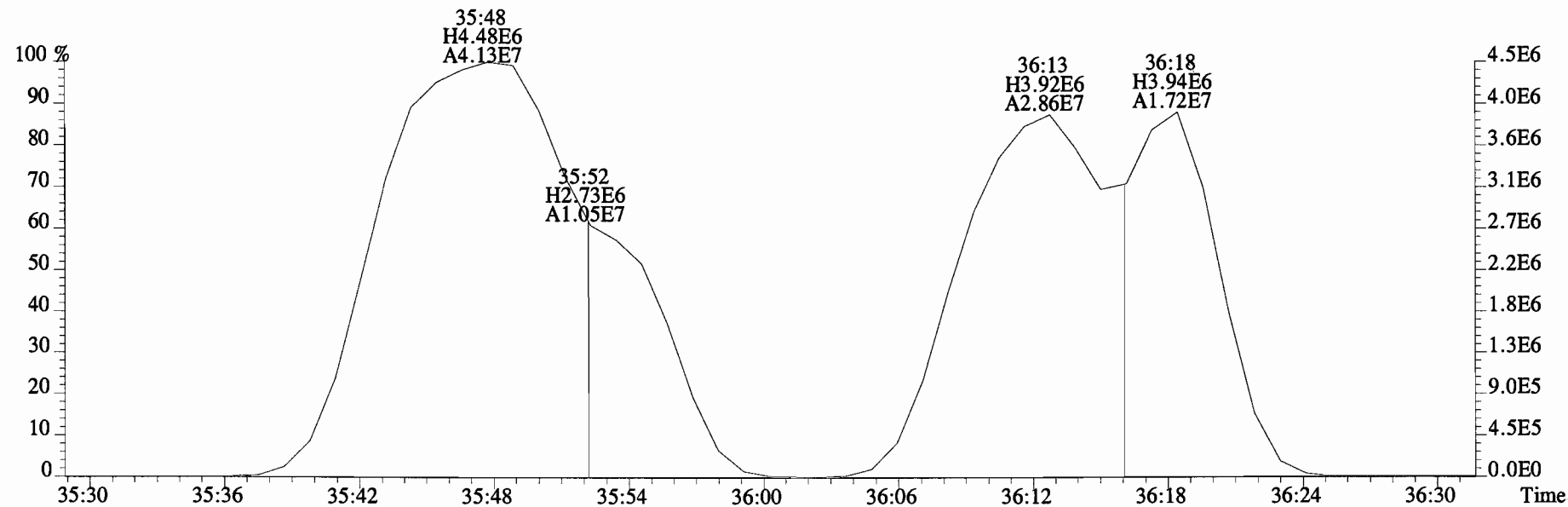
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2512.0,0.00%,F,F)



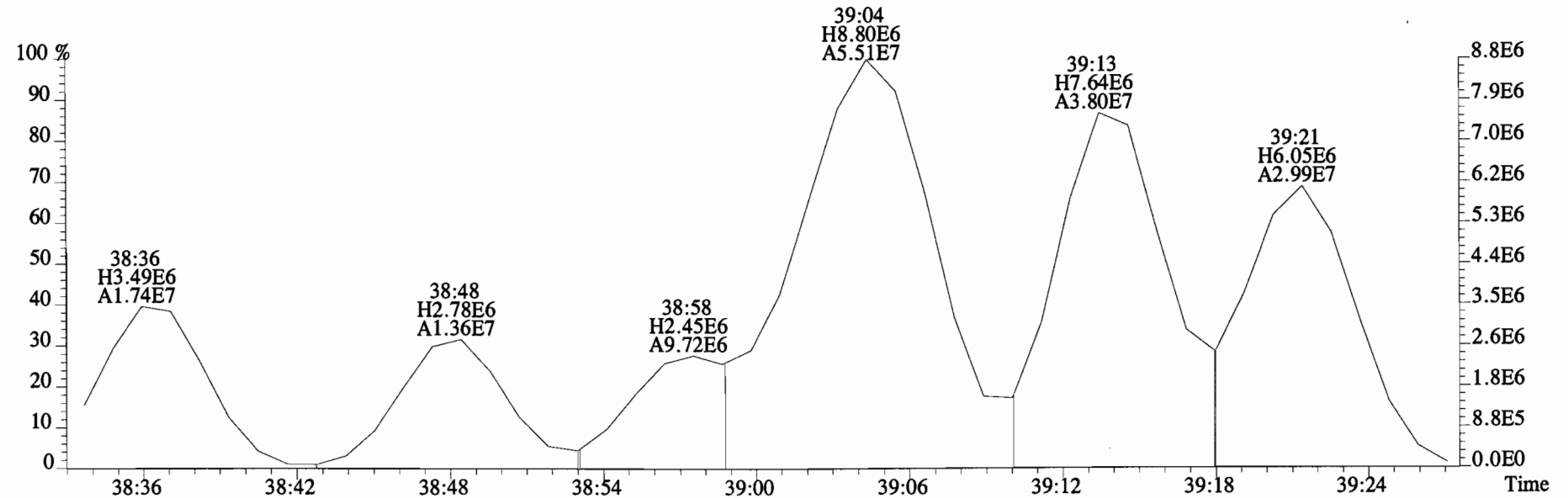
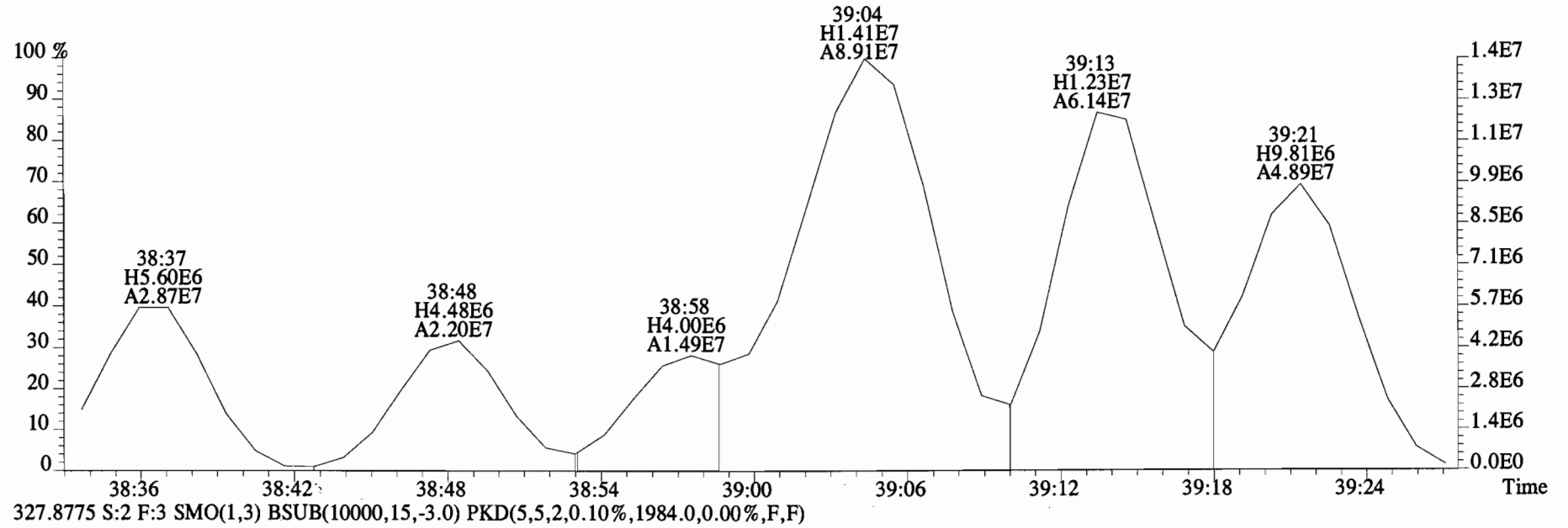
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2032.0,0.00%,F,F)



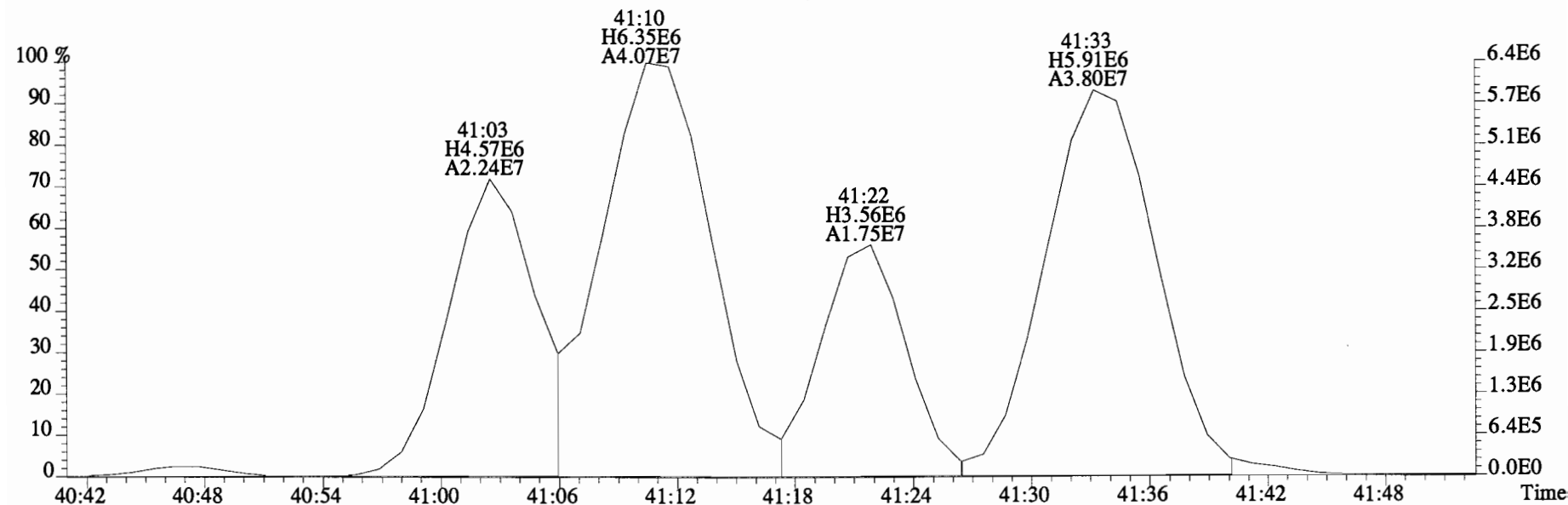
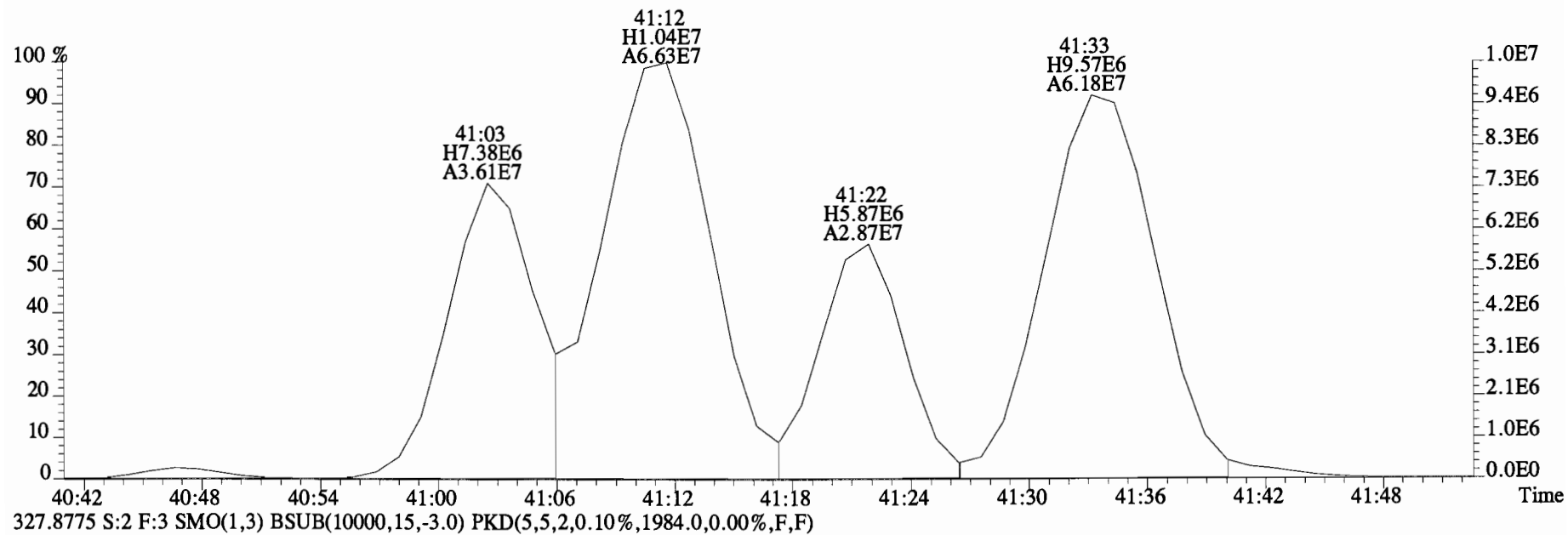
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



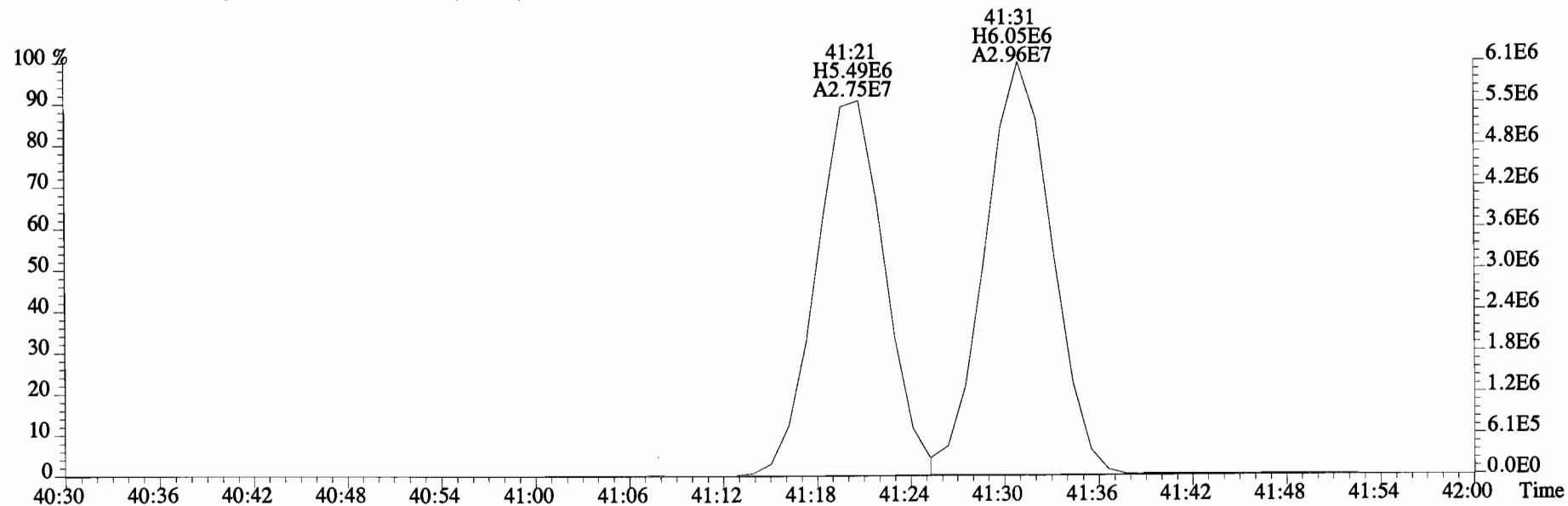
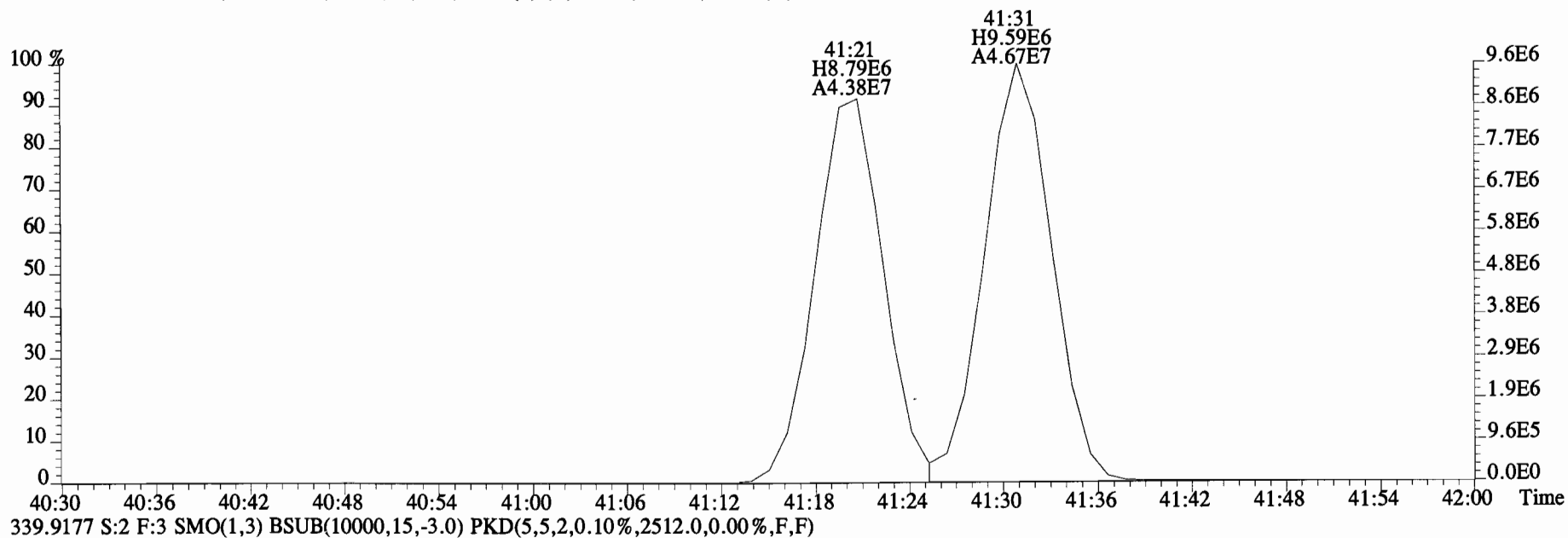
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2032.0,0.00%,F,F)



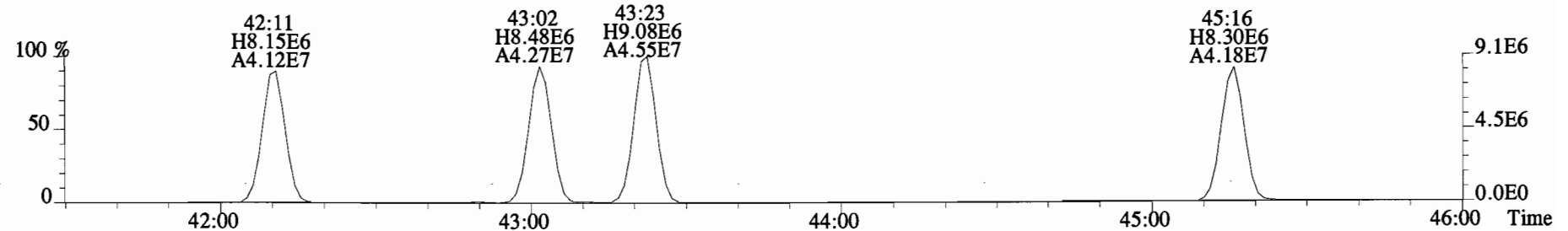
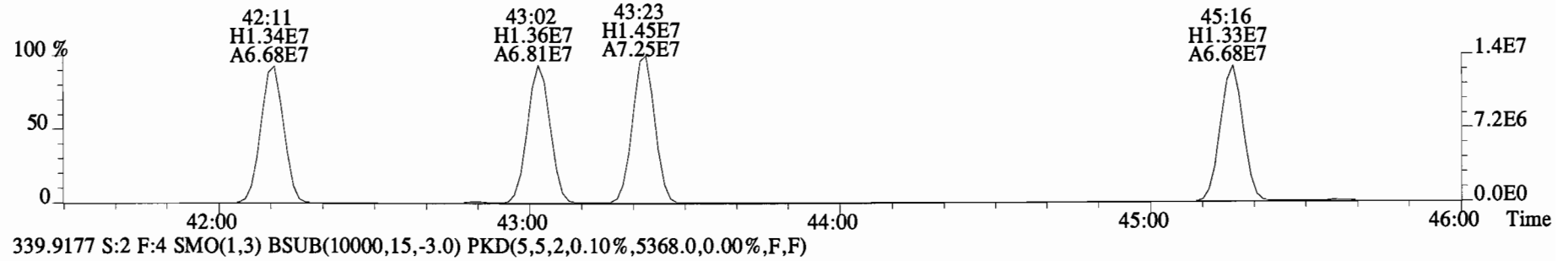
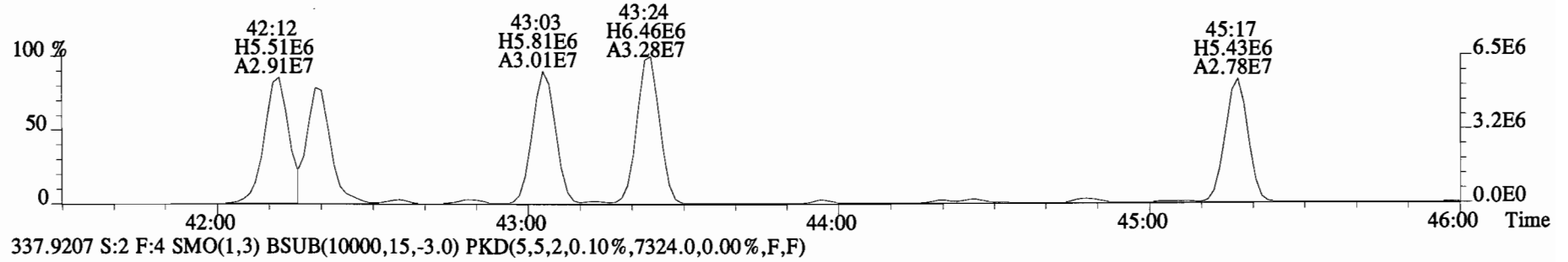
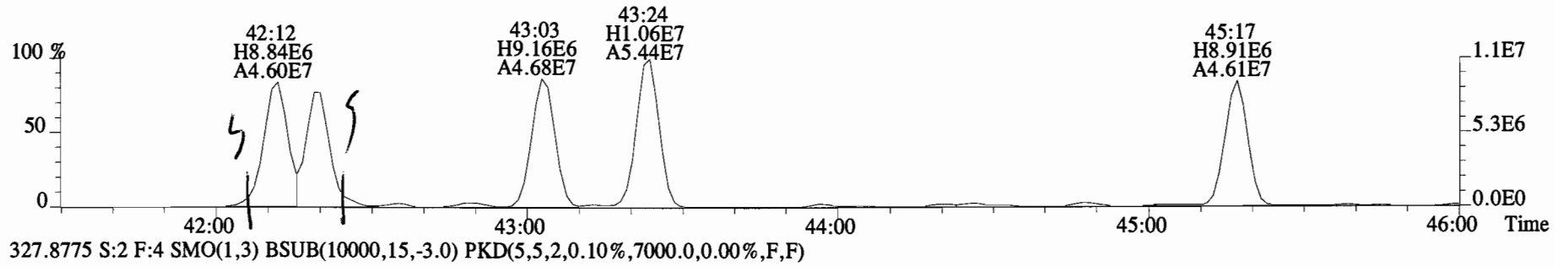
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2032.0,0.00%,F,F)



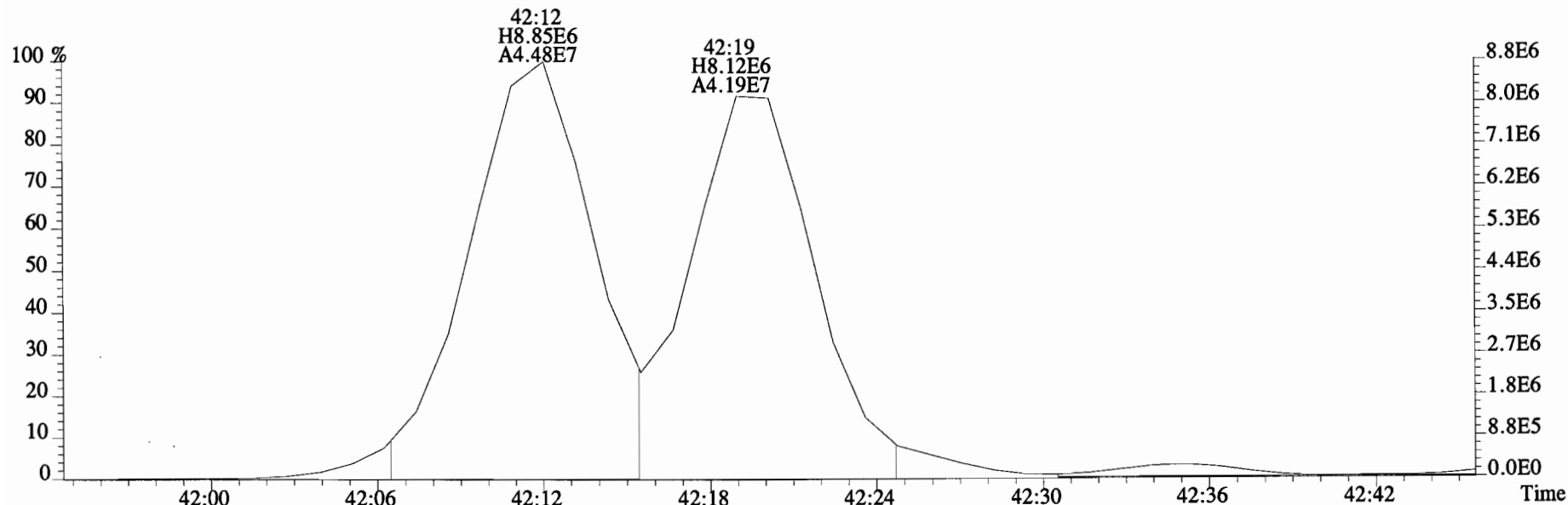
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3048.0,0.00%,F,F)



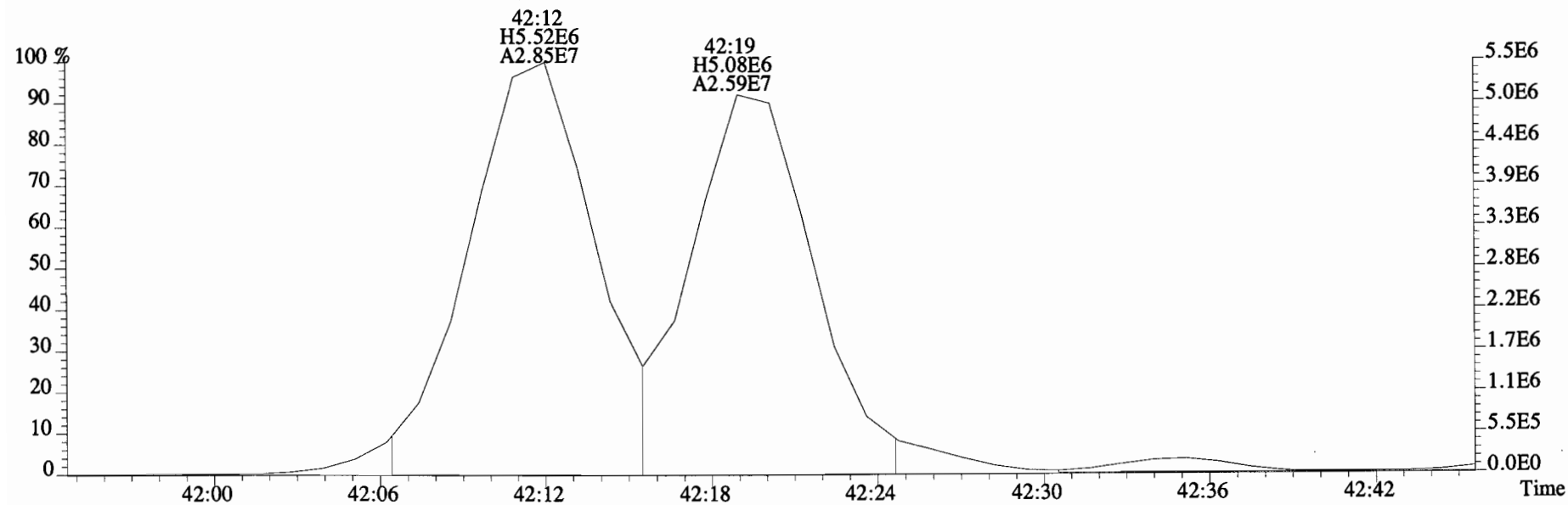
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7644.0,0.00%,F,F)



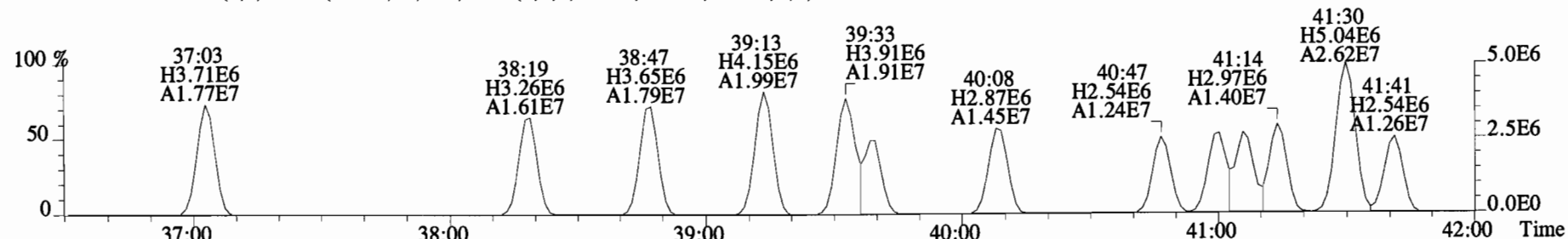
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7644.0,0.00%,F,F)



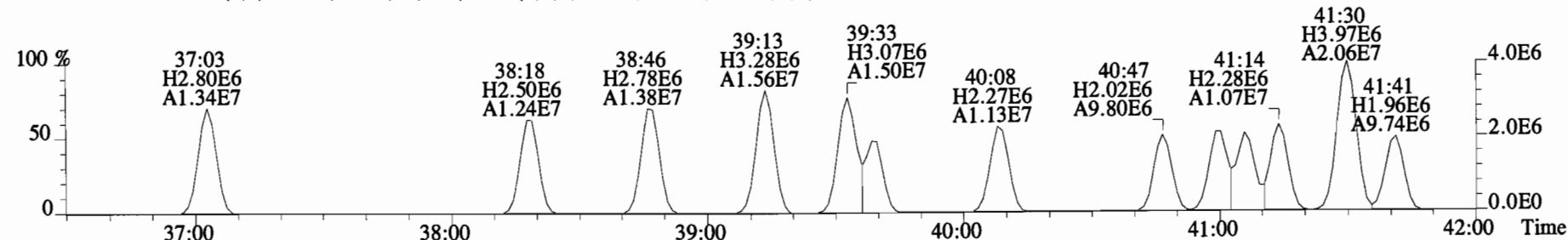
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7000.0,0.00%,F,F)



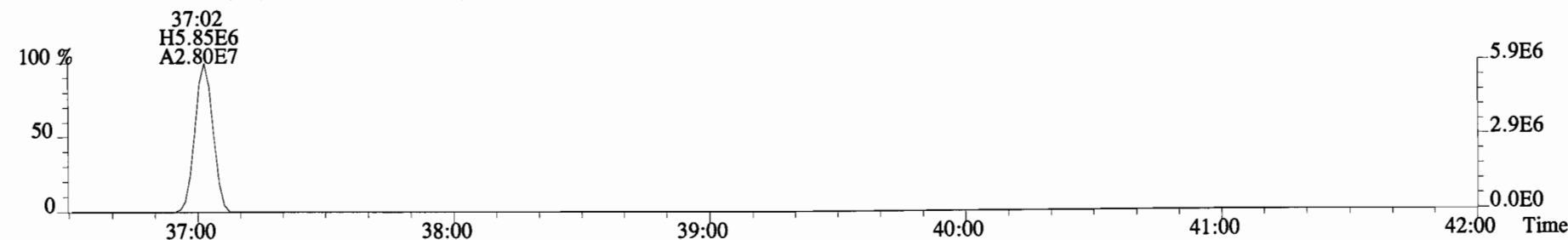
File:150318E1 #1-758 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1688.0,0.00%,F,F)



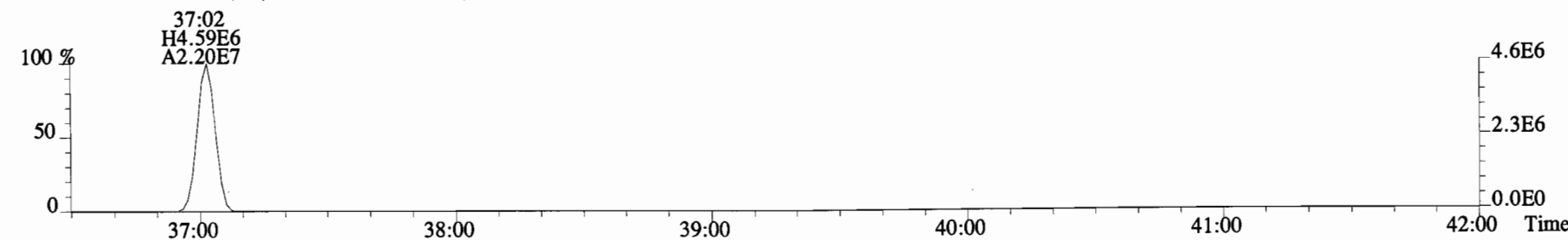
361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1892.0,0.00%,F,F)



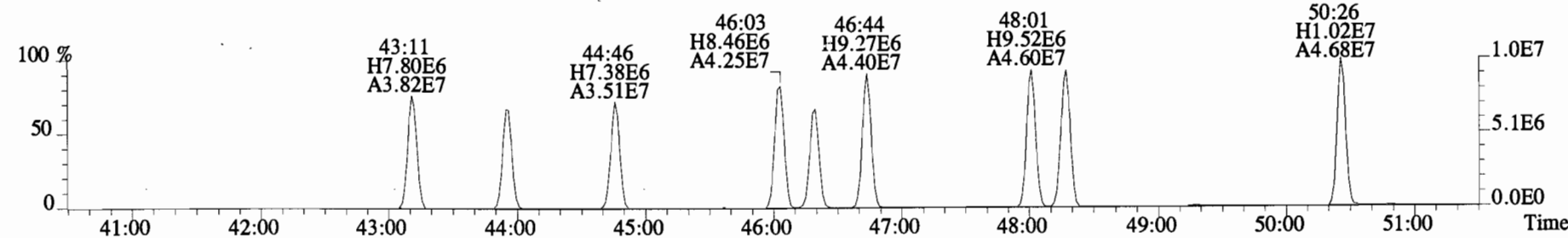
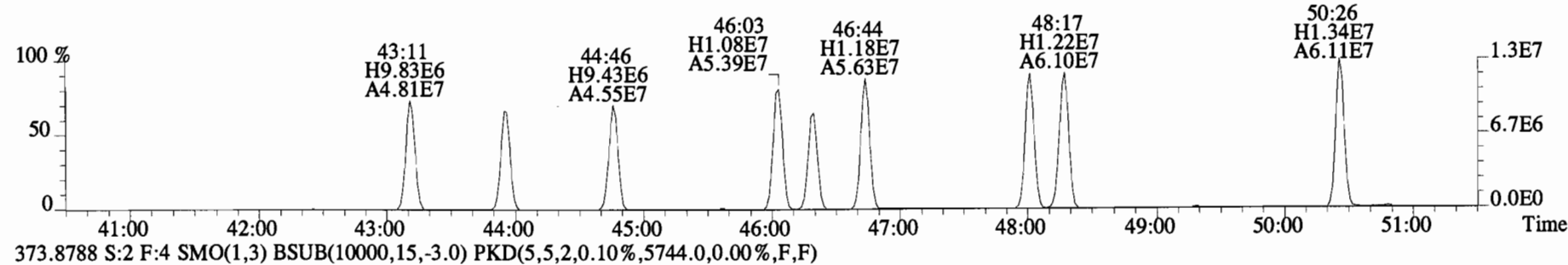
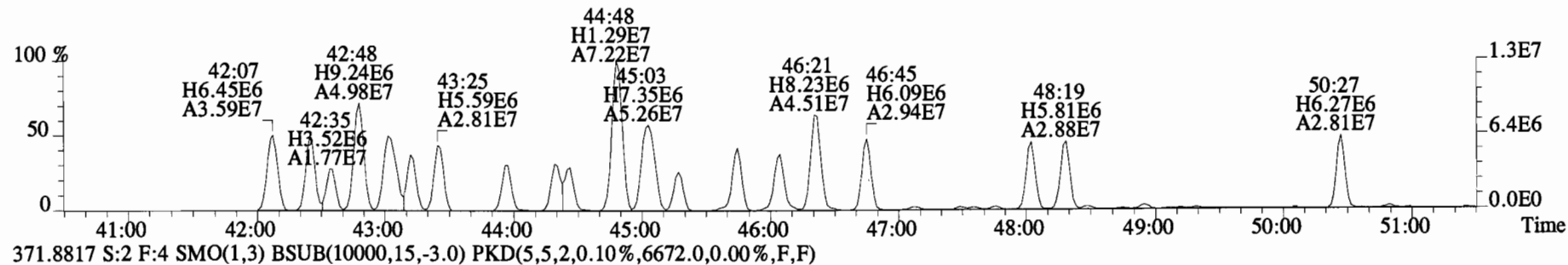
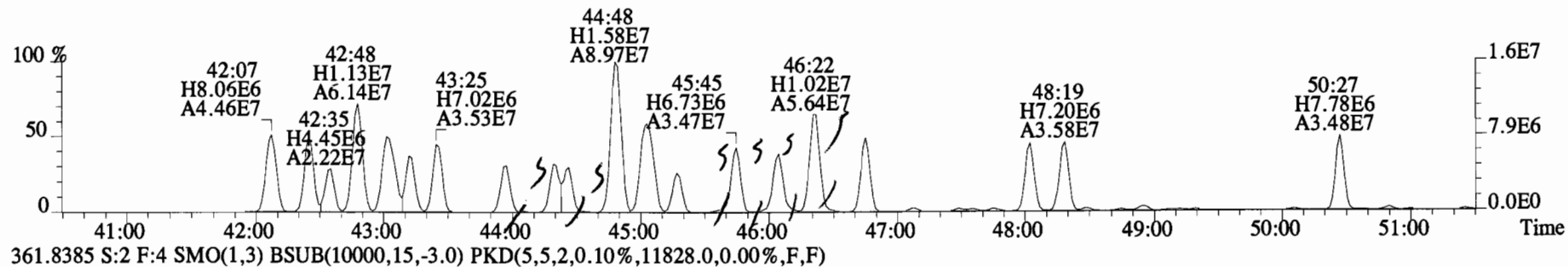
371.8817 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2252.0,0.00%,F,F)



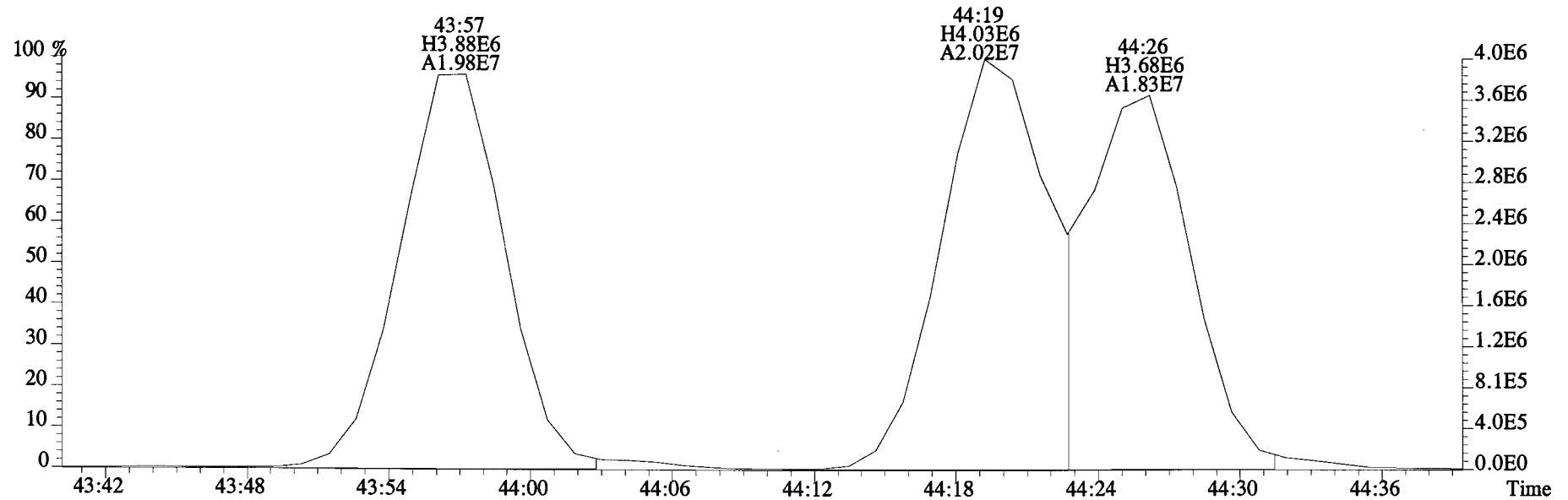
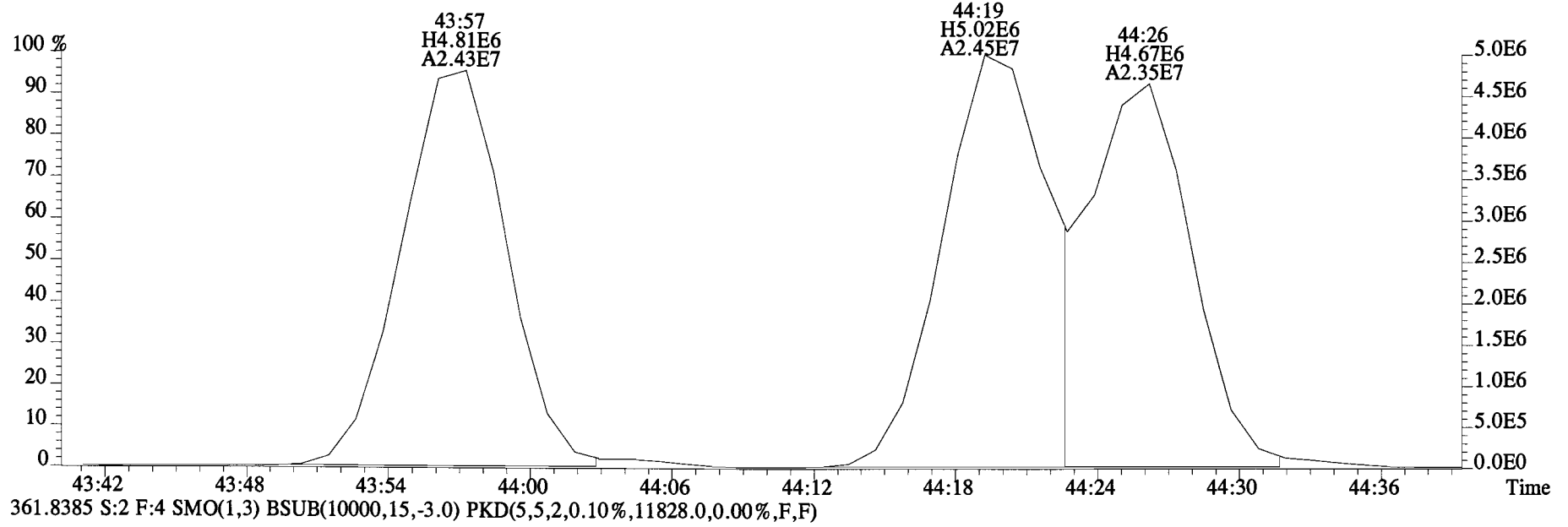
373.8788 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2328.0,0.00%,F,F)



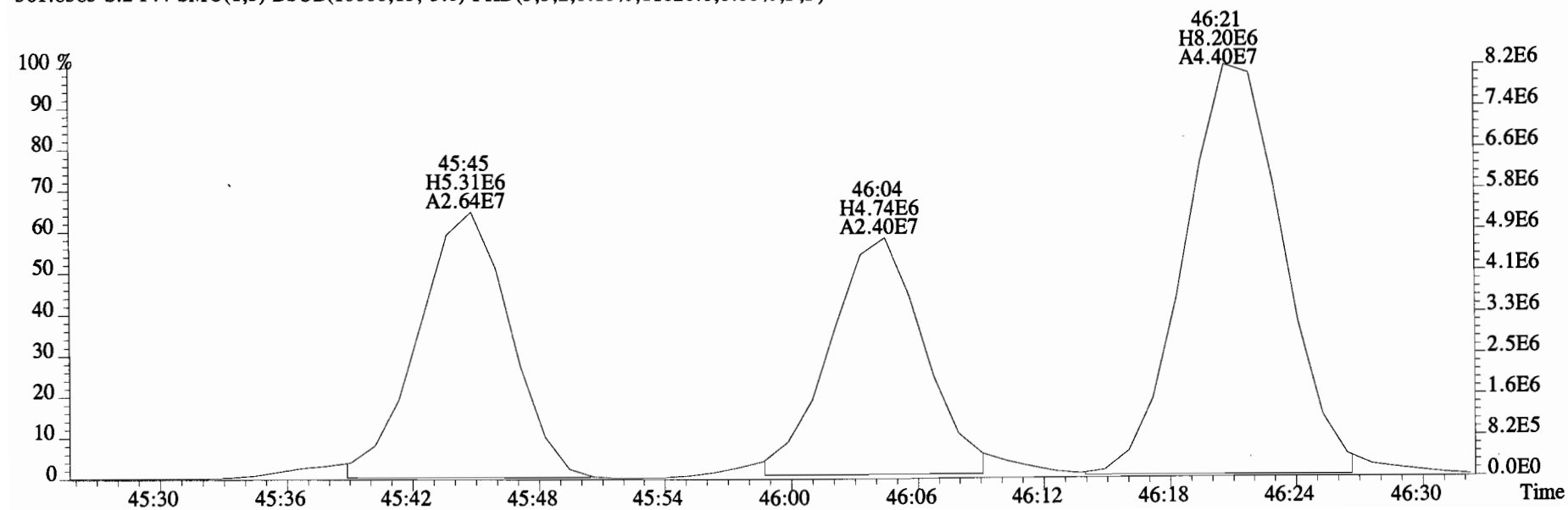
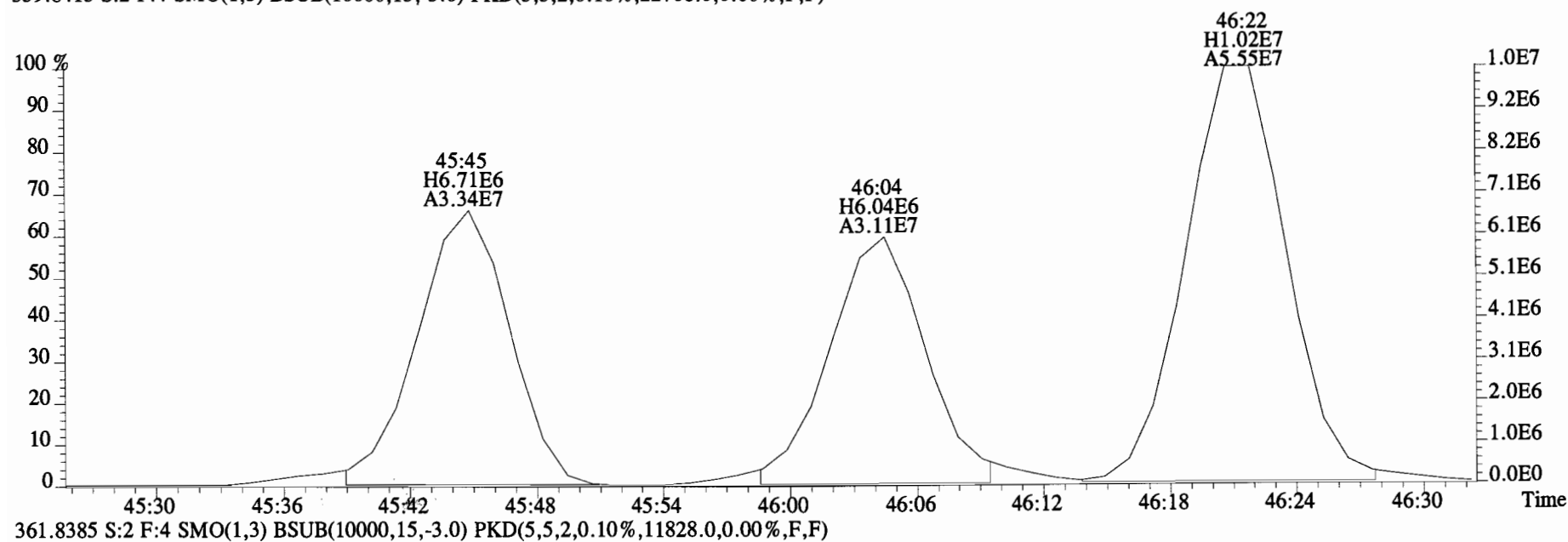
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
 359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,22708.0,0.00%,F,F)



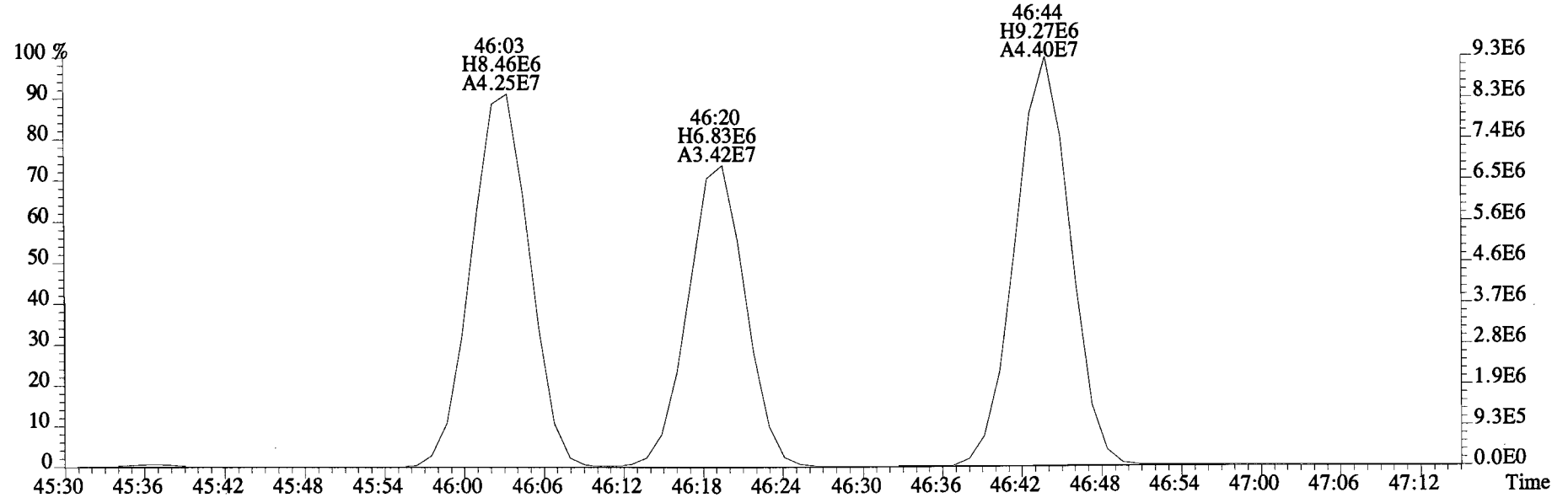
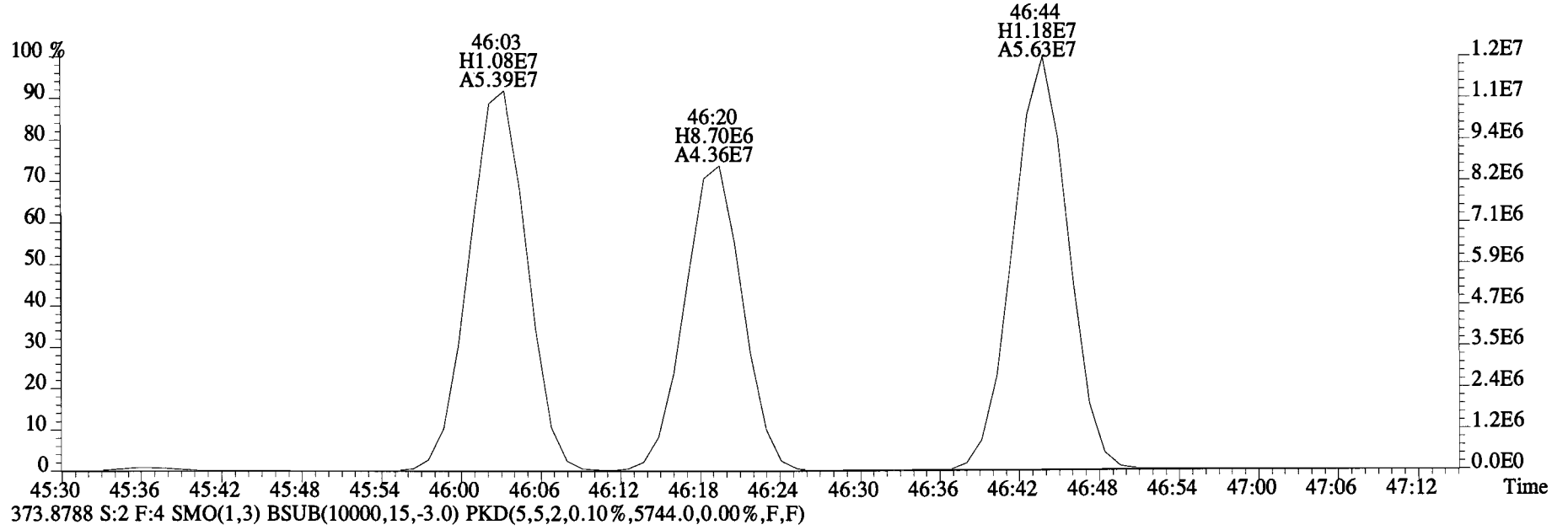
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,22708.0,0.00%,F,F)



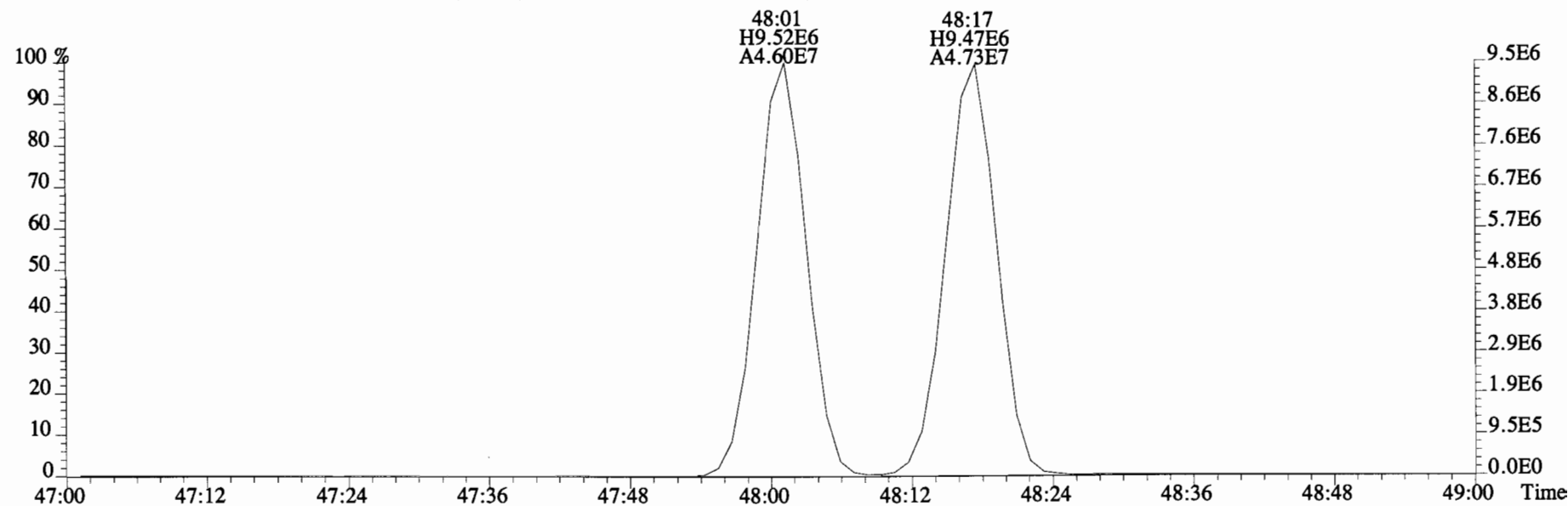
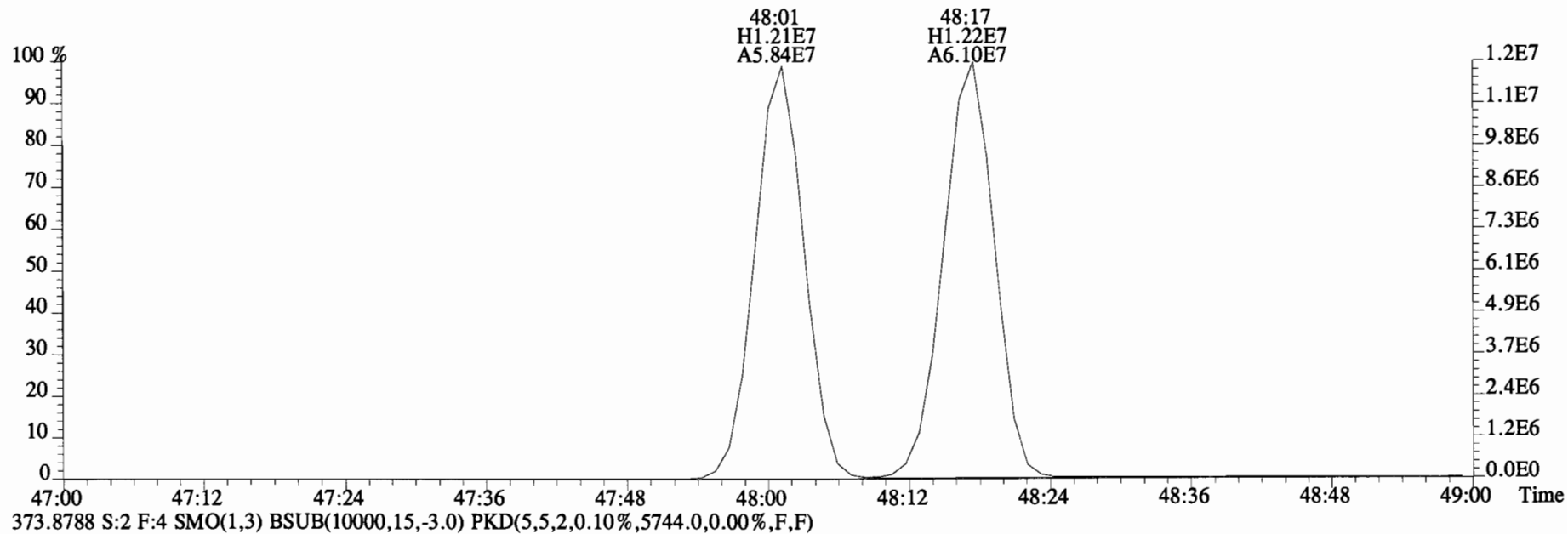
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,22708.0,0.00%,F,F)



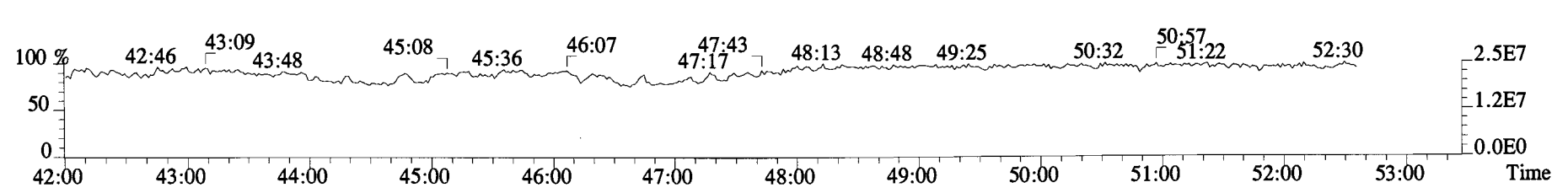
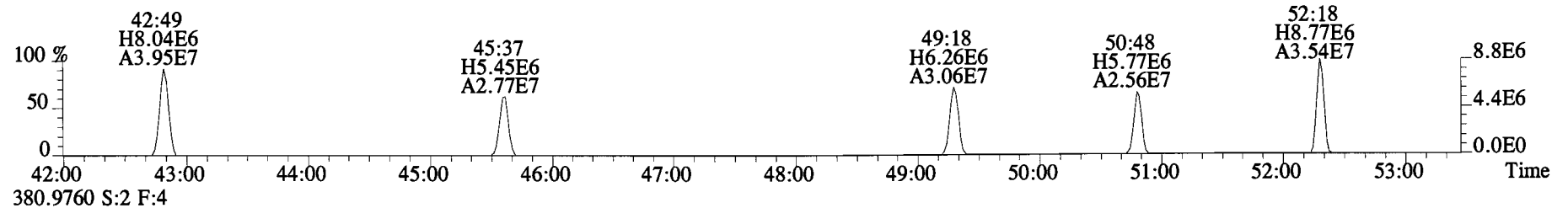
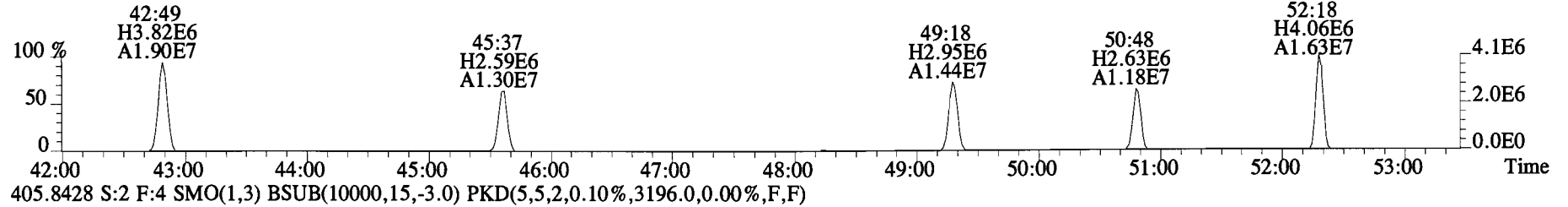
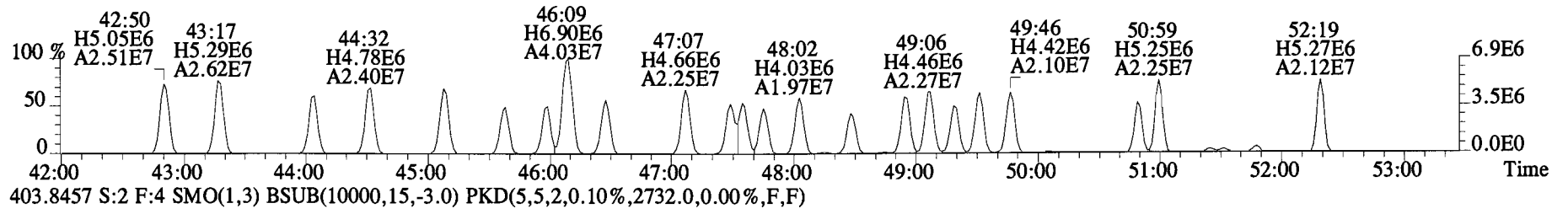
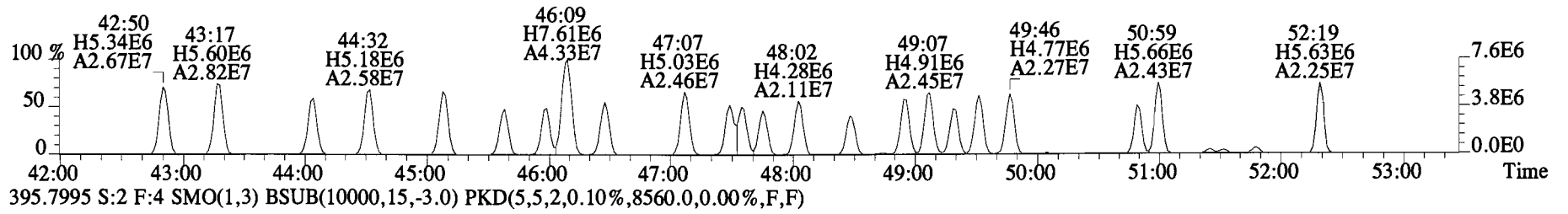
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6672.0,0.00%,F,F)



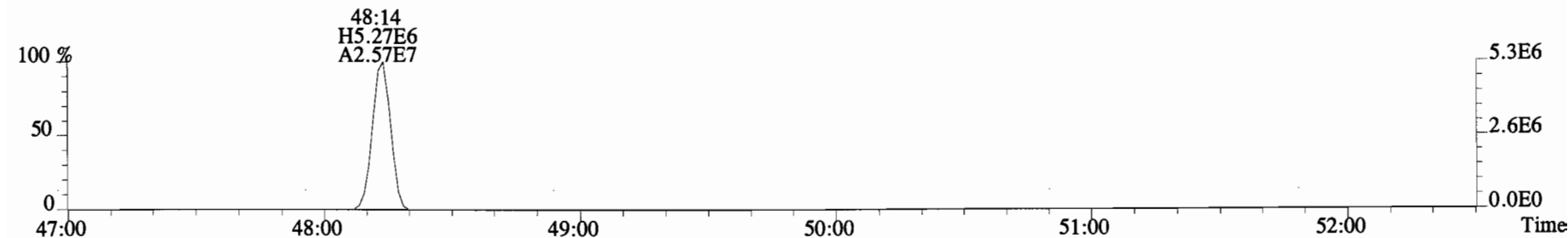
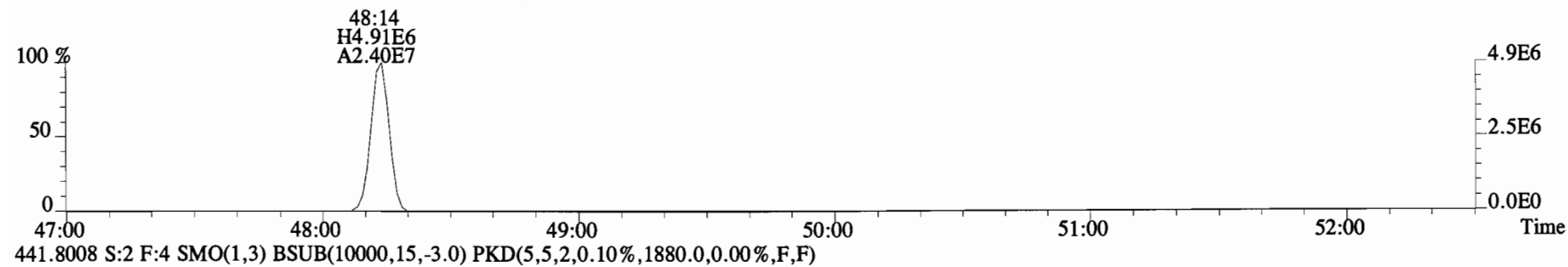
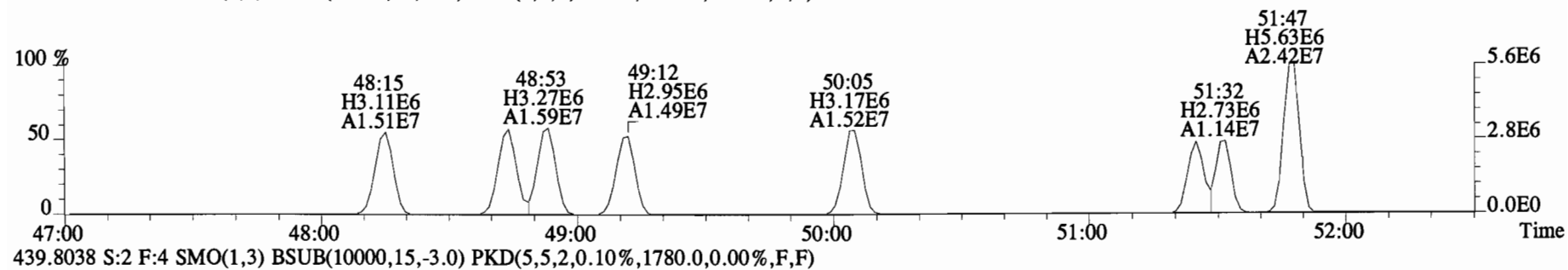
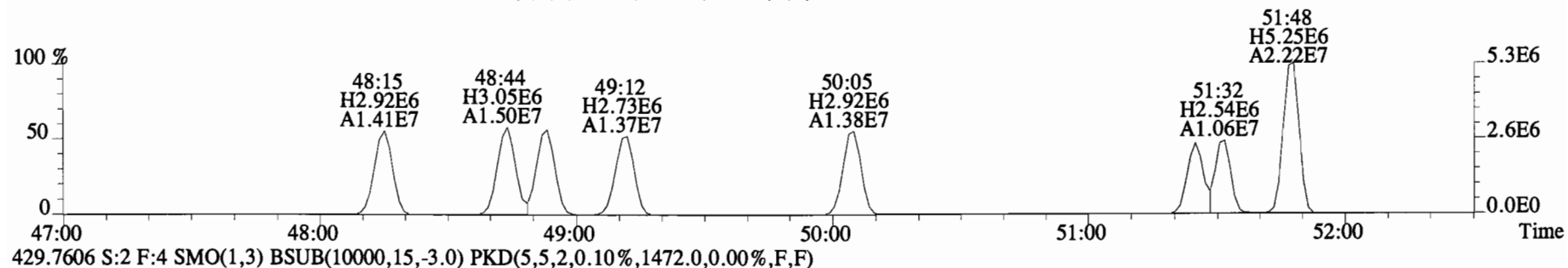
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6672.0,0.00%,F,F)



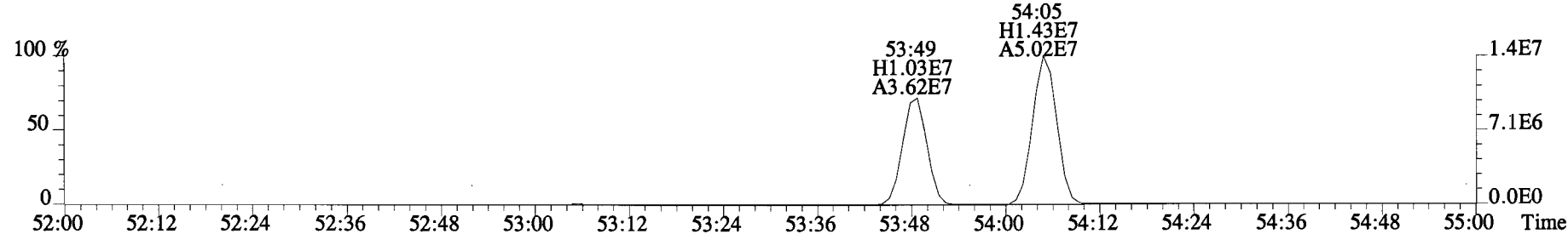
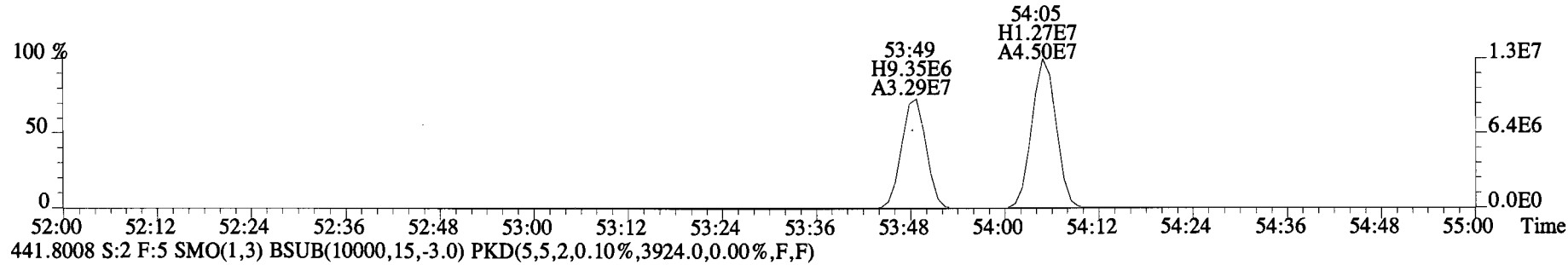
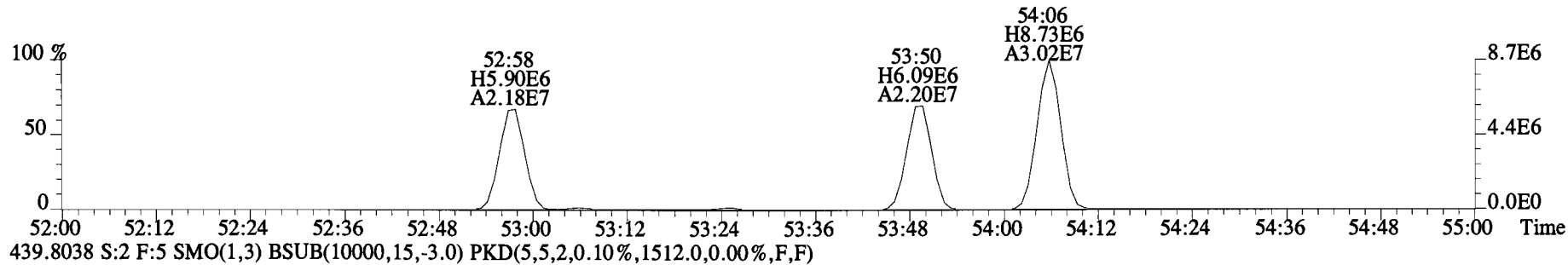
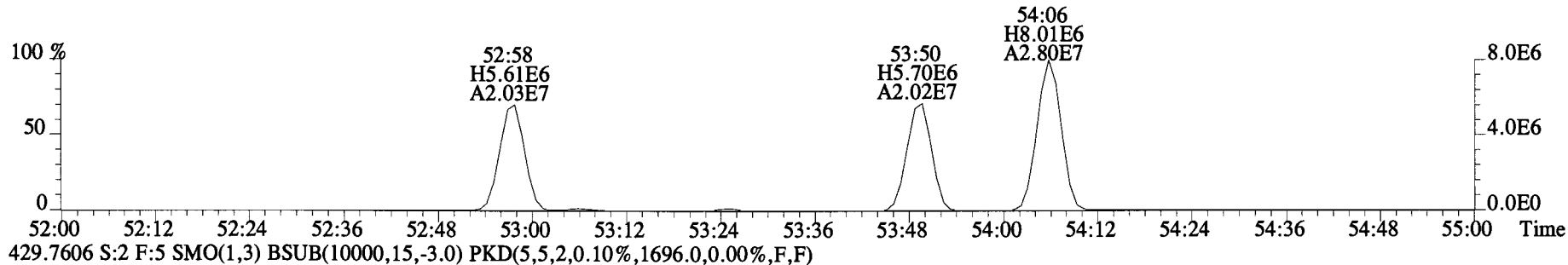
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,11768.0,0.00%,F,F)



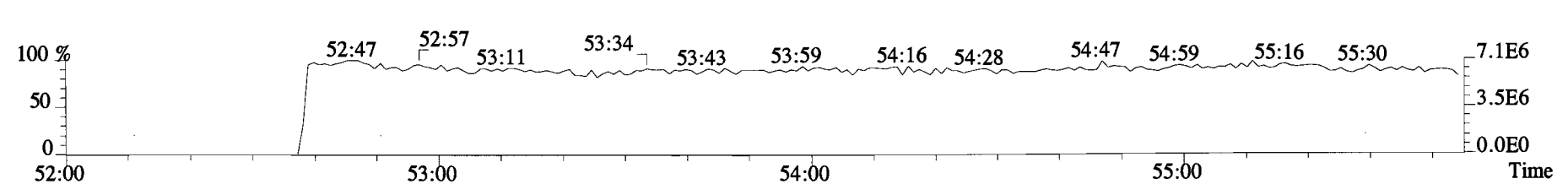
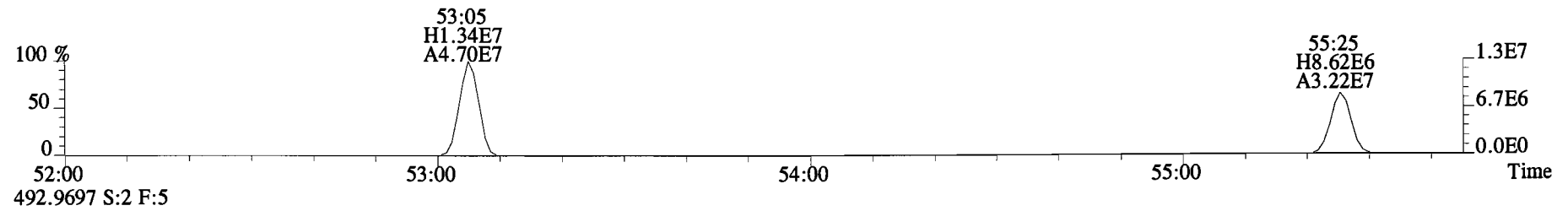
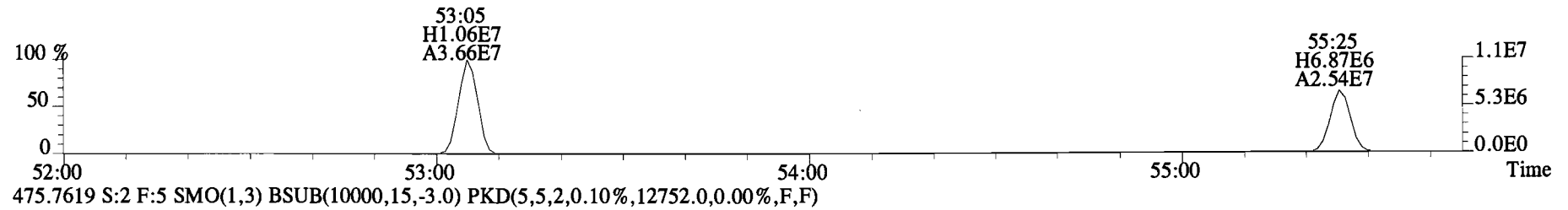
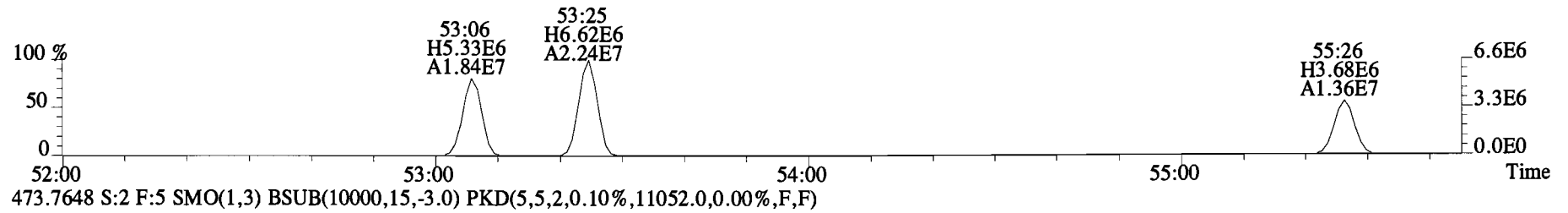
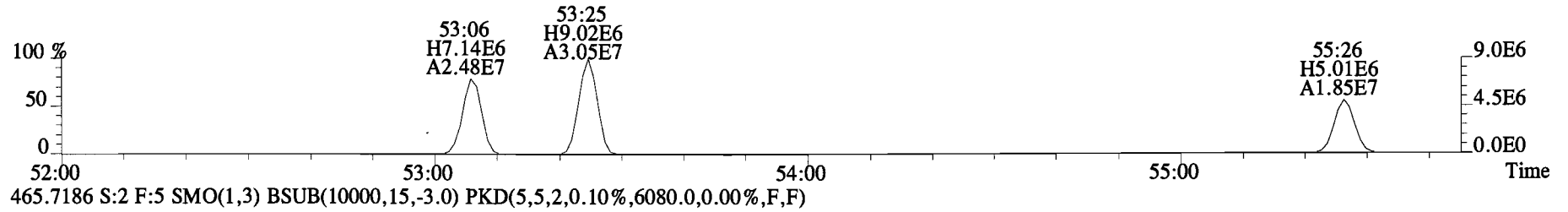
File:150318E1 #1-555 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



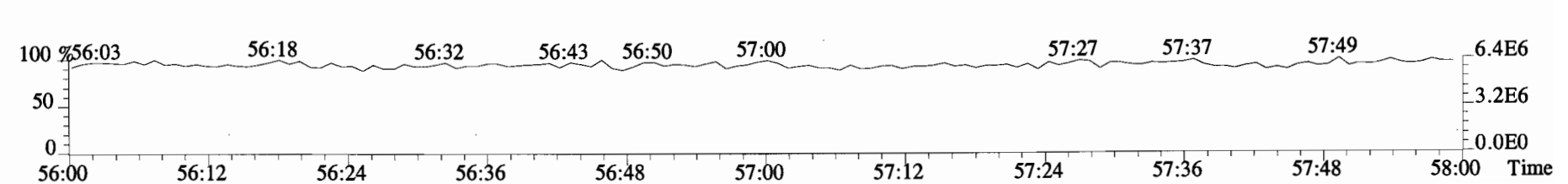
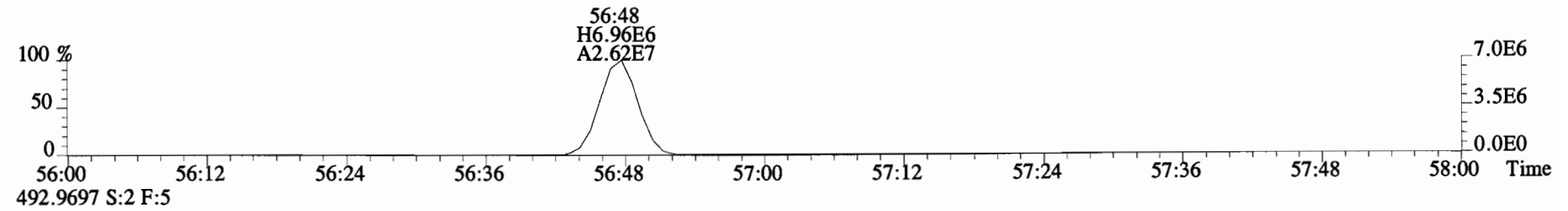
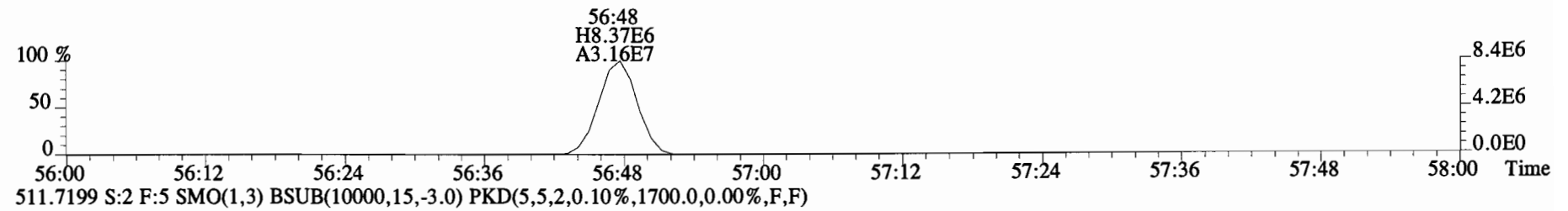
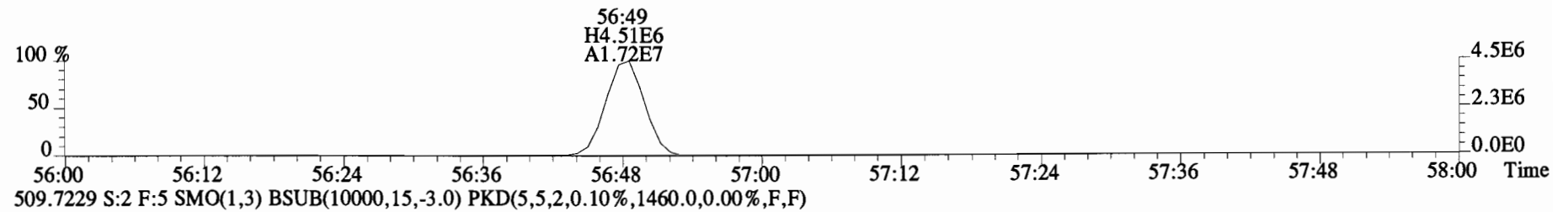
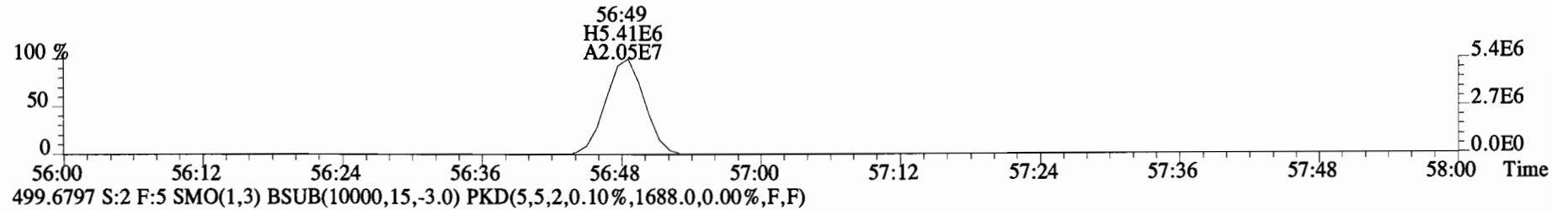
File:150318E1 #1-429 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1536.0,0.00%,F,F)



File:150318E1 #1-429 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6728.0,0.00%,F,F)



File:150318E1 #1-429 Acq:18-MAR-2015 11:04:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5C0059-BS1 OPR 2 Exp:PCB_ZB1
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1612.0,0.00%,F,F)



Client ID: SC-OWS-05-20141211-S
Lab ID: 1400948-01RE1@20X

Filename: 150319E1
GC Column ID: ZB-1

S:4 Acq:19-MAR-15 16:00:57
ICal: PCBVG8-6-23-14 wt/vol: 2.126

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	3.36e+05	2.77	y 16:11	1.19	447	*	*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	1.18e+05	3.31	y 18:34	1.18	148	*	*	2.5	*	0.988	0.984-0.994	
Mono	PCB-3	4.09e+05	3.18	y 18:48	1.43	427	*	*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	4.29e+06	1.63	y 20:08	1.57	6520	*	*	2.5	*	1.002	0.997-1.007	
Di	PCB-7/9	1.98e+06	1.36	y 21:56	1.21	2730	*	*	2.5	*	0.868	0.866-0.874	
Di	PCB-6	6.78e+06	1.65	y 22:35	1.30	8660	*	*	2.5	*	0.893	0.890-0.899	
Di	PCB-5/8	1.61e+07	1.67	y 22:59	1.15	23400	*	*	2.5	*	0.909	0.907-0.917	
Di	PCB-14	*	*	n NotF η	1.11	*		18800	2.5	695	*	0.949-0.959	
Di	PCB-11	3.84e+06	1.65	y 25:17	1.09	5450	*	*	2.5	*	1.000	0.995-1.005	
Di	PCB-12/13	2.53e+06	1.68	y 25:40	1.19	3280	*	*	2.5	*	1.015	1.011-1.021	
Di	PCB-15	2.40e+07	1.61	y 26:00	1.28	29000	*	*	2.5	*	1.028	1.023-1.033	
Tri	PCB-19	4.95e+06	1.07	y 24:16	1.04	12000	*	*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.71	*		2200	2.5	69.3	*	1.032-1.042	
Tri	PCB-18	3.73e+07	1.06	y 25:55	0.78	95600	*	*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	1.63e+07	1.08	y 26:05	0.92	35300	*	*	2.5	*	0.960	0.956-0.966	
Tri	PCB-24/27	5.49e+06	1.03	y 26:39	1.19	9250	*	*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	3.60e+07	1.05	y 27:10	0.94	76800	*	*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	7.95e+05	1.06	y 27:59	1.14	1250	*	*	2.5	*	0.961	0.955-0.965	
Tri	PCB-23	4.81e+04	1.36	n 28:05	1.28	67.1	R	*	2.5	*	0.964	0.959-0.969	
Tri	PCB-29	4.37e+05	1.17	y 28:19	1.08	722	*	*	2.5	*	0.972	0.967-0.977	
Tri	PCB-26	2.09e+07	1.10	y 28:31	1.21	30900	*	*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	1.16e+07	1.07	y 28:41	1.26	16500	*	*	2.5	*	0.985	0.979-0.989	
Tri	PCB-31	7.98e+07	1.08	y 29:02	1.28	111000	*	*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	1.12e+08	1.10	y 29:09	1.71	117000	*	*	2.5	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	4.29e+07	1.10	y 29:46	1.08	70900	*	*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	3.82e+07	1.08	y 30:11	1.21	56500	*	*	2.5	*	1.036	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.14	*		5220	2.5	219	*	0.928-0.938	
Tri	PCB-39	2.98e+05	1.11	y 31:17	1.12	484	*	*	2.5	*	0.948	0.943-0.953	
Tri	PCB-38	1.04e+06	1.17	y 32:04	1.20	1570	*	*	2.5	*	0.972	0.966-0.976	
Tri	PCB-35	2.64e+06	1.15	y 32:35	1.23	3880	*	*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	6.37e+07	1.10	y 33:01	1.23	93900	*	*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-54	2.71e+06	0.83	y 28:01	1.10	6040	*	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-50	1.78e+05	0.84	y 29:11	0.88	498	*	*	2.5	*	1.042	1.037-1.047	
Tetra	PCB-53	2.79e+07	0.77	y 29:50	1.06	72600	*	*	2.5	*	0.946	0.942-0.952	
Tetra	PCB-51	1.80e+07	0.79	y 30:10	0.99	50400	*	*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	8.14e+06	0.77	y 30:35	0.86	26100	*	*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	4.55e+06	0.79	y 31:05	0.85	14900	*	*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 3/26/15

Reviewed by: [Signature] Date: 3/27/15

Client ID: SC-OWS-05-20141211-S
Lab ID: 1400948-01RE1@20X

Filename: 150319E1 S:4 Acq:19-MAR-15 16:00:57
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.126

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	8.09e+07	0.80	y 31:33	1.28	175000	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-73	9.16e+05	0.84	y 31:41	1.35	1870	*	2.5	*	*	1.005	1.000-1.010	
Tetra	PCB-43/49	6.13e+07	0.80	y 31:50	0.99	170000	*	2.5	*	*	1.010	1.005-1.015	
Tetra	PCB-47	3.45e+07	0.79	y 32:03	1.06	84600	*	2.5	*	*	1.000	0.996-1.006	
Tetra	PCB-48/75	1.13e+07	0.80	y 32:11	1.23	23800	*	2.5	*	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.22	*		5570	2.5	262	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF η	1.22	*		5570	2.5	263	*	1.011-1.021	
Tetra	PCB-44	4.83e+07	0.79	y 32:51	0.86	146000	*	2.5	*	*	1.025	1.021-1.031	
Tetra	PCB-42/59	2.46e+07	0.79	y 33:04	1.14	56200	*	2.5	*	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	6.99e+07	0.79	y 33:39	1.21	150000	*	2.5	*	*	1.050	1.046-1.056	
Tetra	PCB-68	1.07e+06	0.83	y 33:55	1.35	2060	*	2.5	*	*	1.058	1.054-1.064	
Tetra	PCB-40	9.98e+06	0.78	y 34:08	0.70	37000	*	2.5	*	*	1.065	1.061-1.071	
Tetra	PCB-57	7.20e+05	0.80	y 34:29	0.98	1640	*	2.5	*	*	0.970	0.965-0.975	
Tetra	PCB-67	3.79e+06	0.77	y 34:48	1.11	7660	*	2.5	*	*	0.979	0.974-0.984	
Tetra	PCB-58	3.07e+05	0.71	y 34:56	0.93	740	*	2.5	*	*	0.983	0.977-0.987	
Tetra	PCB-63	3.86e+06	0.78	y 35:04	0.95	9050	*	2.5	*	*	0.986	0.982-0.992	
Tetra	PCB-74	4.21e+07	0.78	y 35:22	1.24	75600	*	2.5	*	*	0.995	0.990-1.000	
Tetra	PCB-61/70	1.04e+08	0.78	y 35:34	0.95	243000	*	2.5	*	*	1.000	0.995-1.005	
Tetra	PCB-76/66	9.68e+07	0.79	y 35:47	1.04	207000	*	2.5	*	*	1.007	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.19	*		5570	2.5	247	*	0.996-1.006	
Tetra	PCB-55	2.47e+06	0.84	y 36:17	1.04	5370	*	2.5	*	*	1.008	1.005-1.015	
Tetra	PCB-56/60	7.28e+07	0.79	y 36:47	1.01	163000	*	2.5	*	*	1.022	1.019-1.029	
Tetra	PCB-79	1.51e+06	0.79	y 37:53	1.08	3180	*	2.5	*	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.27	*		5570	2.5	245	*	0.982-0.992	
Tetra	PCB-81	7.86e+05	0.82	y 39:04	1.33	1380	*	2.5	*	*	1.000	0.995-1.005	
Tetra	PCB-77	2.34e+07	0.79	y 39:41	1.10	50800	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-104	1.63e+05	1.49	y 32:43	1.18	582	*	2.5	*	*	1.002	0.996-1.006	
Penta	PCB-96	1.28e+06	1.76	y 33:58	1.14	4780	*	2.5	*	*	1.040	1.034-1.044	
Penta	PCB-103	1.08e+06	1.71	y 34:31	0.96	4780	*	2.5	*	*	1.057	1.050-1.060	
Penta	PCB-100	1.33e+06	1.69	y 34:51	0.94	6010	*	2.5	*	*	1.067	1.061-1.071	
Penta	PCB-94	7.67e+05	1.55	y 35:19	1.06	4170	*	2.5	*	*	0.986	0.980-0.990	
Penta	PCB-95/98/102	3.42e+07	1.60	y 35:51	1.22	161000	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-93	*	*	n NotF η	0.84	*		2200	2.5	489	*	0.997-1.007	
Penta	PCB-88/91	9.36e+06	1.62	y 36:15	1.12	48200	*	2.5	*	*	1.012	1.005-1.015	
Penta	PCB-121	*	*	n NotF η	1.62	*		2200	2.5	255	*	1.009-1.019	
Penta	PCB-84/92	1.99e+07	1.61	y 37:10	1.05	107000	*	2.5	*	*	0.991	0.985-0.995	
Penta	PCB-89	6.74e+05	1.50	y 37:21	1.13	3350	*	2.5	*	*	0.996	0.991-1.001	

Analyst: DmS

Date: 3/26/15

Client ID: SC-OWS-05-20141211-S
Lab ID: 1400948-01RE1@20X

Filename: 150319E1 S:4 Acq:19-MAR-15 16:00:57
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.126

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	5.61e+07	1.60	y 37:32	1.10	287000	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.41	*		2200	2.5	287	*	1.002-1.012	
Penta	PCB-99	2.53e+07	1.65	y 37:53	1.34	107000	*	2.5	*	*	1.010	1.004-1.014	
Penta	PCB-119	2.95e+06	1.78	y 38:20	1.53	11900	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	2.74e+06	1.55	y 38:30	1.28	13300	*	2.5	*	*	0.991	0.986-0.996	
Penta	PCB-83	5.06e+04	1.88	n 38:39	1.52	207	R	*	2.5	*	0.995	0.990-1.000	
Penta	PCB-97	1.62e+07	1.64	y 38:51	1.18	84800	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-86	1.96e+05	1.54	y 38:59	0.84	1440	*	2.5	*	*	1.004	0.999-1.009	
Penta	PCB-87/117/125	2.50e+07	1.67	y 39:08	1.55	100000	*	2.5	*	*	1.008	1.002-1.012	
Penta	PCB-111/115	8.93e+05	1.75	y 39:16	1.63	3390	*	2.5	*	*	1.011	1.006-1.016	
Penta	PCB-85/116	1.01e+07	1.64	y 39:23	1.30	47900	*	2.5	*	*	1.014	1.010-1.020	
Penta	PCB-120	2.86e+05	2.03	n 39:36	1.68	1060	R	*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	8.68e+07	1.60	y 39:46	1.56	346000	*	2.5	*	*	1.024	1.020-1.030	
Penta	PCB-82	7.07e+06	1.63	y 40:24	0.76	40000	*	2.5	*	*	0.976	0.971-0.981	
Penta	PCB-124	3.66e+06	1.66	y 41:05	1.47	10700	*	2.5	*	*	0.993	0.988-0.998	
Penta	PCB-107/109	6.17e+06	1.60	y 41:15	1.32	20000	*	2.5	*	*	0.997	0.991-1.001	
Penta	PCB-123	1.24e+06	1.66	y 41:24	1.17	4560	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-106/118	8.31e+07	1.61	y 41:36	1.17	306000	*	2.5	*	*	1.001	0.996-1.006	
Penta	PCB-114	3.03e+06	1.67	y 42:14	1.30	6880	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-122	1.53e+06	1.58	y 42:23	1.12	4020	*	2.5	*	*	1.004	0.999-1.009	
Penta	PCB-105	5.77e+07	1.65	y 43:06	1.30	138000	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.33	*		3500	2.5	279	*	0.996-1.006	
Penta	PCB-126	2.02e+06	1.68	y 45:21	1.18	5780	*	2.5	*	*	1.001	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.11	*		1850	2.5	288	*	0.966-1.006	
Hexa	PCB-150	2.72e+05	1.14	y 38:20	1.00	1770	*	2.5	*	*	1.034	1.030-1.040	
Hexa	PCB-152	1.14e+05	0.99	n 38:49	1.12	663	R	*	2.5	*	1.047	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.20	*		1850	2.5	267	*	1.055-1.065	
Hexa	PCB-136	6.78e+06	1.32	y 39:35	1.18	37400	*	2.5	*	*	1.068	1.064-1.074	
Hexa	PCB-148	9.08e+04	1.28	y 39:43	0.74	792	*	2.5	*	*	1.071	1.066-1.076	
Hexa	PCB-154	1.12e+06	1.30	y 40:11	0.86	8500	*	2.5	*	*	1.084	1.080-1.090	
Hexa	PCB-151	9.06e+06	1.37	y 40:49	0.75	78800	*	2.5	*	*	1.101	1.097-1.107	
Hexa	PCB-135	5.61e+06	1.24	y 41:03	0.79	46000	*	2.5	*	*	1.107	1.103-1.113	
Hexa	PCB-144	1.83e+06	1.31	y 41:09	0.76	15600	*	2.5	*	*	1.110	1.105-1.117	
Hexa	PCB-147	1.46e+06	1.40	y 41:16	0.82	11600	*	2.5	*	*	1.113	1.109-1.121	
Hexa	PCB-139/149	3.78e+07	1.31	y 41:31	0.76	322000	*	2.5	*	*	1.120	1.116-1.128	
Hexa	PCB-140	3.52e+05	1.37	y 41:44	0.72	3170	*	2.5	*	*	1.126	1.121-1.133	
Hexa	PCB-134/143	4.65e+06	1.25	y 42:11	0.92	19400	*	2.5	*	*	0.975	0.970-0.980	

Analyst: *DMS*

Date: *3/26/15*

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	2.85e+06	1.19	y 42:27	0.82	13300		*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	1.88e+04	1.73	n 42:38	0.91	78.9	R	*	2.5	*	0.986	0.981-0.991	
Hexa	PCB-146/165	1.75e+07	1.23	y 42:51	1.25	53600		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	3.39e+07	1.25	y 43:06	1.10	117000		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	1.08e+08	1.24	y 43:16	1.25	331000		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	2.56e+05	1.37	y 43:28	1.45	674		*	2.5	*	1.005	1.001-1.011	
Hexa	PCB-141	2.00e+07	1.25	y 44:00	1.09	74600		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-137	5.35e+06	1.25	y 44:23	1.06	20400		*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	6.16e+06	1.27	y 44:29	0.96	25900		*	2.5	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	1.35e+08	1.24	y 44:51	1.29	412000		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	1.57e+07	1.27	y 45:04	1.34	46000		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	4.57e+06	1.27	y 45:19	0.85	21100		*	2.5	*	1.012	1.007-1.017	
Hexa	PCB-166	4.45e+05	1.16	y 45:48	1.19	1360		*	2.5	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.11	*		3240	2.5	304	*	0.996-1.006	
Hexa	PCB-128/162	1.93e+07	1.21	y 46:23	1.05	66600		*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	6.24e+06	1.21	y 46:48	1.20	17400		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	1.53e+07	1.25	y 48:06	1.14	45200		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-157	3.55e+06	1.18	y 48:21	1.16	9880		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	<i>9.67 E4*</i>	<i>1.12</i>	n NotF η	1.12	<i>279</i>		<i>3240</i>	2.5	<i>355</i>	<i>490</i>	0.995-1.005	<i>A- 3/27/15</i>
Hepta	PCB-188	1.26e+05	0.93	y 42:54	1.58	441		*	2.5	*	1.001	0.996-1.006	
Hepta	PCB-184	4.20e+04	1.83	n 43:20	1.63	143	R	*	2.5	*	1.011	1.006-1.016	
Hepta	PCB-179	1.04e+07	1.09	y 44:07	1.30	44200		*	2.5	*	1.030	1.024-1.034	
Hepta	PCB-176	3.36e+06	1.08	y 44:34	1.48	12600		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.45	*		2210	2.5	159	*	1.050-1.060	
Hepta	PCB-178	4.06e+06	1.03	y 45:40	1.03	21800		*	2.5	*	1.066	1.061-1.071	
Hepta	PCB-175	9.80e+05	1.10	y 46:01	1.01	5380		*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	2.74e+07	1.08	y 46:10	1.25	122000		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	1.27e+07	1.08	y 46:30	1.21	58200		*	2.5	*	1.085	1.081-1.091	
Hepta	PCB-185	2.33e+06	1.09	y 47:09	1.80	9050		*	2.5	*	0.955	0.951-0.961	
Hepta	PCB-174	2.23e+07	1.08	y 47:31	1.38	113000		*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	9.25e+04	0.99	y 47:38	1.38	468		*	2.5	*	0.965	0.960-0.970	
Hepta	PCB-177	1.27e+07	1.08	y 47:47	1.26	70900		*	2.5	*	0.968	0.963-0.973	
Hepta	PCB-171	6.37e+06	1.04	y 48:05	1.58	28100		*	2.5	*	0.974	0.970-0.980	
Hepta	PCB-173	4.80e+05	0.93	y 48:31	1.11	3020		*	2.5	*	0.983	0.978-0.988	
Hepta	PCB-172	3.81e+06	1.07	y 48:58	1.63	16300		*	2.5	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*		2210	2.5	165	*	0.991-1.001	
Hepta	PCB-180	5.29e+07	1.07	y 49:22	1.34	275000		*	2.5	*	1.000	0.995-1.005	

Analyst: *DMS*

Date: *3/26/15*

Client ID: SC-OWS-05-20141211-S
Lab ID: 1400948-01RE1@20X

Filename: 150319E1 S:4 Acq:19-MAR-15 16:00:57
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.126

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	3.32e+06	1.08	y 49:35	1.72	13500	*	2.5	*	*	1.005	0.999-1.009	
Hepta	PCB-191	1.21e+06	1.02	y 49:50	1.69	4980	*	2.5	*	*	1.010	1.004-1.014	
Hepta	PCB-170	2.16e+07	1.08	y 50:52	1.60	123000	*	2.5	*	*	1.000	0.995-1.005	
Hepta	PCB-190	5.72e+06	1.06	y 51:03	2.21	23400	*	2.5	*	*	1.004	0.998-1.008	
Hepta	PCB-189	1.07e+06	0.95	y 52:23	1.55	4770	*	2.5	*	*	1.000	0.995-1.005	
Octa	PCB-202	1.58e+06	0.91	y 48:18	1.08	10100	*	2.5	*	*	1.001	0.995-1.005	
Octa	PCB-201	1.12e+06	0.88	y 48:46	1.15	6690	*	2.5	*	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.14	*	1260	2.5	172	*	*	1.008-1.018	
Octa	PCB-197	3.59e+05	1.01	y 49:14	1.07	2310	*	2.5	*	*	1.020	1.015-1.025	
Octa	PCB-200	9.93e+05	0.88	y 50:06	1.06	6440	*	2.5	*	*	1.038	1.032-1.044	
Octa	PCB-198	2.78e+05	0.88	y 51:27	0.76	2530	*	2.5	*	*	1.066	1.059-1.069	
Octa	PCB-199	6.56e+06	0.90	y 51:34	0.80	56700	*	2.5	*	*	1.068	1.061-1.071	
Octa	PCB-196/203	7.72e+06	0.91	y 51:50	0.80	66400	*	2.5	*	*	1.074	1.066-1.076	
Octa	PCB-195	4.63e+06	0.95	y 53:01	1.23	20400	*	2.5	*	*	0.984	0.979-0.989	
Octa	PCB-194	1.21e+07	0.94	y 53:52	1.21	53900	*	2.5	*	*	1.000	0.995-1.005	
Octa	PCB-205	7.94e+05	0.89	y 54:09	1.54	2780	*	2.5	*	*	1.005	1.001-1.011	
Nona	PCB-208	1.76e+06	1.41	y 53:09	0.93	8170	*	2.5	*	*	1.000	0.995-1.005	
Nona	PCB-207	7.30e+05	1.15	y 53:27	1.08	2920	*	2.5	*	*	1.006	1.001-1.011	
Nona	PCB-206	4.52e+06	1.37	y 55:31	1.02	28300	*	2.5	*	*	1.000	0.995-1.005	
Deca	PCB-209	1.12e+06	1.21	y 56:54	1.17	6090	*	2.5	*	*	1.000	0.995-1.005	

Analyst: *Dms*

Date: *3/26/15*

Client ID: SC-OWS-05-20141211-S
Lab ID: 1400948-01RE1@20X

Filename: 150319E1 S:4 Acq:19-MAR-15 16:00:57
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.1259 EndCAL: NA

ConCal: ST150319E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	8.63e+05	2.77 y	16:11	1.27	1022.47	
Total Di-PCB	5.96e+07	1.63 y	20:08	1.21	78996.1	
Total Tri-PCB	1.00e+08	1.07 y	24:16	1.10	229013	
Total Tri-PCB	3.75e+08	1.06 y	27:59	1.21	504476	Sum:733489
Total Tetra-PCB	7.57e+08	0.83 y	28:01	1.09	1786440	
Total Penta-PCB	3.96e+08	1.49 y	32:43	1.18	1722370	
Total Penta-PCB	6.43e+07	1.67 y	42:14	1.25	154445	Sum:1876810
Total Hexa-PCB	6.43e+07	1.14 y	38:20	0.90	525158	
Total Hexa-PCB	4.00e+08	1.25 y	42:11	1.11	1275650	Sum:1800810
Total Hepta-PCB	1.93e+08	0.93 y	42:54	1.42	949539	
Total Octa-PCB	1.86e+07	0.91 y	48:18	0.96	151223	
Total Octa-PCB	1.75e+07	0.95 y	53:01	1.33	77024.5	Sum:228248
Total Nona-PCB	7.00e+06	1.41 y	53:09	1.01	39348.4	
Total Deca-PCB	1.12e+06	1.21 y	56:54	1.17	6093.51	

Total PCB Conc:7503017.39162

Integrations
by

Analyst: DMS

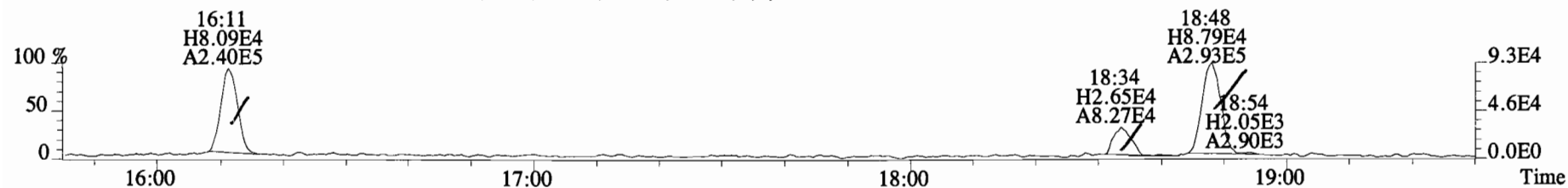
Date: 3/26/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.91e+06	3.16	y	0.87	16:10	0.622	0.629-0.635	10500	112											
13C-PCB-3	6.33e+06	3.24	y	0.91	18:47	0.723	0.725-0.733	10700	114		13C-PCB-79	4.33e+06	0.85	y	1.02	37:52	1.029	1.023-1.034	9700	103
13C-PCB-4	3.94e+06	1.52	y	0.59	20:06	0.774	0.775-0.783	10400	111		13C-PCB-178	1.13e+06	0.45	y	0.61	45:39	0.985	0.979-0.990	8730	92.8
13C-PCB-9	5.65e+06	1.56	y	0.90	21:54	0.843	0.842-0.850	9750	104											
13C-PCB-11	6.10e+06	1.57	y	0.94	25:17	0.973	0.968-0.978	10100	107											
13C-PCB-19	3.72e+06	1.14	y	0.53	24:15	0.933	0.930-0.940	10800	115											
13C-PCB-28	5.27e+06	1.04	y	0.93	29:08	1.004	0.999-1.009	9670	103											
13C-PCB-32	4.70e+06	1.07	y	0.80	27:10	1.046	1.040-1.050	9140	97.2		13C-PCB-79	4.33e+06	0.85	y	1.10	37:52	0.969	0.964-0.974	9150	97.2
13C-PCB-37	5.19e+06	1.06	y	0.84	33:00	1.137	1.131-1.143	10600	112		13C-PCB-178	1.13e+06	0.45	y	0.90	45:39	0.925	0.920-0.930	8770	93.3
13C-PCB-47	3.62e+06	0.73	y	0.81	32:03	0.871	0.866-0.874	10200	108											
13C-PCB-52	3.40e+06	0.86	y	0.77	31:32	0.857	0.853-0.861	10000	107											
13C-PCB-54	3.82e+06	0.85	y	0.97	28:00	0.761	0.758-0.766	8980	95.5											
13C-PCB-70	4.21e+06	0.84	y	1.00	35:33	0.966	0.961-0.971	9610	102											
13C-PCB-77	3.94e+06	0.86	y	0.94	39:41	1.078	1.073-1.083	9530	101											
13C-PCB-80	4.15e+06	0.82	y	1.03	35:59	0.978	0.972-0.982	9170	97.5											
13C-PCB-81	4.03e+06	0.84	y	0.92	39:04	1.062	1.057-1.067	9980	106											
13C-PCB-95	1.64e+06	1.61	y	0.74	35:50	0.913	0.908-0.918	9430	100											
13C-PCB-97	1.52e+06	1.66	y	0.70	38:50	0.989	0.984-0.994	9200	97.8											
13C-PCB-101	1.67e+06	1.50	y	0.78	37:31	0.955	0.951-0.961	9120	96.9											
13C-PCB-104	2.22e+06	1.78	y	1.00	32:40	0.832	0.828-0.836	9450	100											
13C-PCB-105	3.04e+06	1.53	y	1.37	43:05	0.929	0.924-0.934	10600	112											
13C-PCB-114	3.20e+06	1.75	y	1.36	42:14	0.911	0.905-0.915	11100	118											
13C-PCB-118	2.18e+06	1.61	y	0.96	41:34	1.059	1.054-1.064	9690	103											
13C-PCB-123	2.19e+06	1.51	y	0.89	41:23	1.054	1.050-1.060	10500	111											
13C-PCB-126	2.79e+06	1.71	y	1.31	45:19	0.977	0.972-0.982	10100	108											
13C-PCB-127	3.07e+06	1.66	y	1.47	43:26	0.937	0.931-0.941	9890	105											
13C-PCB-138	2.39e+06	1.26	y	1.10	44:49	0.967	0.961-0.971	10300	110											
13C-PCB-141	2.32e+06	1.26	y	1.07	43:59	0.949	0.943-0.953	10300	109											
13C-PCB-153	2.47e+06	1.32	y	1.15	43:15	0.933	0.927-0.937	10200	109											
13C-PCB-155	1.45e+06	1.15	y	0.84	37:04	0.944	0.939-0.949	7360	78.3											
13C-PCB-156	2.81e+06	1.36	y	1.30	48:05	1.037	1.032-1.042	10300	109											
13C-PCB-157	2.91e+06	1.36	y	1.36	48:21	1.043	1.038-1.048	10200	108											
13C-PCB-159	2.61e+06	1.32	y	1.25	46:07	0.995	0.989-0.999	9930	105											
13C-PCB-167	2.82e+06	1.25	y	1.35	46:47	1.009	1.004-1.014	9900	105											
13C-PCB-169	2.91e+06	1.36	y	1.29	50:30	1.089	1.083-1.093	10700	114											
13C-PCB-170	1.04e+06	0.43	y	0.54	50:51	1.097	1.089-1.101	9100	96.8											
13C-PCB-180	1.35e+06	0.51	y	0.68	49:21	1.064	1.060-1.070	9350	99.4											
13C-PCB-188	1.69e+06	0.48	y	0.92	42:51	0.924	0.919-0.929	8760	93.2											
13C-PCB-189	1.36e+06	0.43	y	0.72	52:22	1.129	1.120-1.132	9020	95.9											
13C-PCB-194	1.74e+06	0.87	y	0.80	53:52	0.995	0.990-1.000	9210	97.9											
13C-PCB-202	1.36e+06	0.83	y	0.84	48:16	1.041	1.036-1.046	7730	82.2											
13C-PCB-206	1.47e+06	0.78	y	0.65	55:31	1.025	1.021-1.031	9540	101											
13C-PCB-208	2.17e+06	0.75	y	1.08	53:08	0.981	0.976-0.986	8480	90.1											
13C-PCB-209	1.48e+06	1.22	y	0.61	56:53	1.050	1.045-1.055	10200	108											

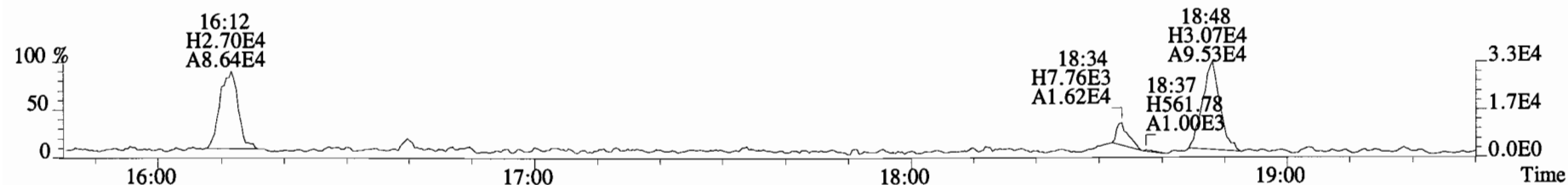
Analyst: DMS

Date: 3/26/15

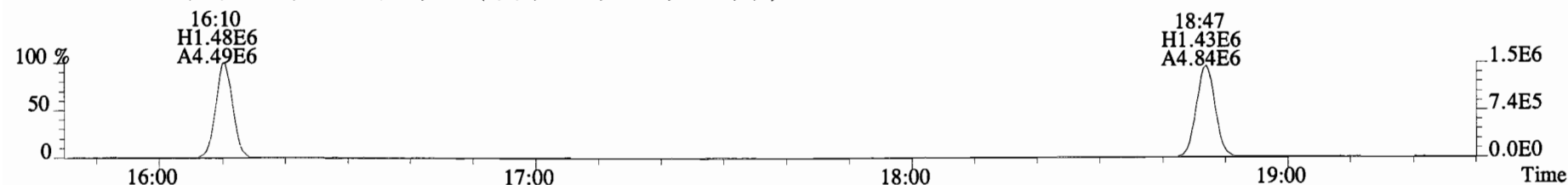
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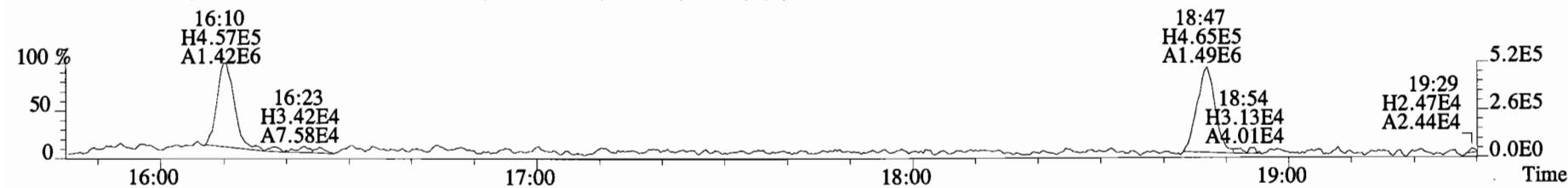
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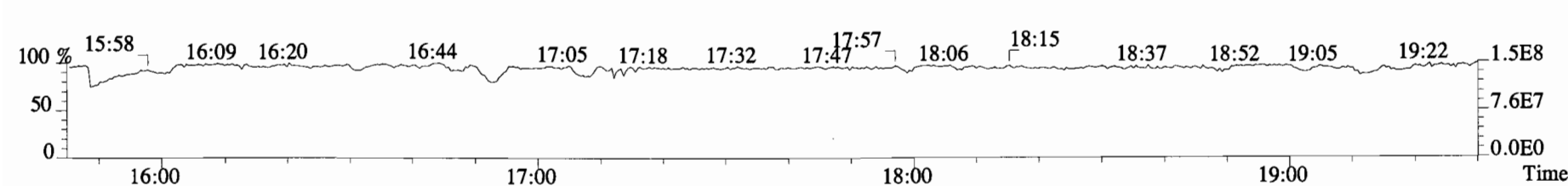
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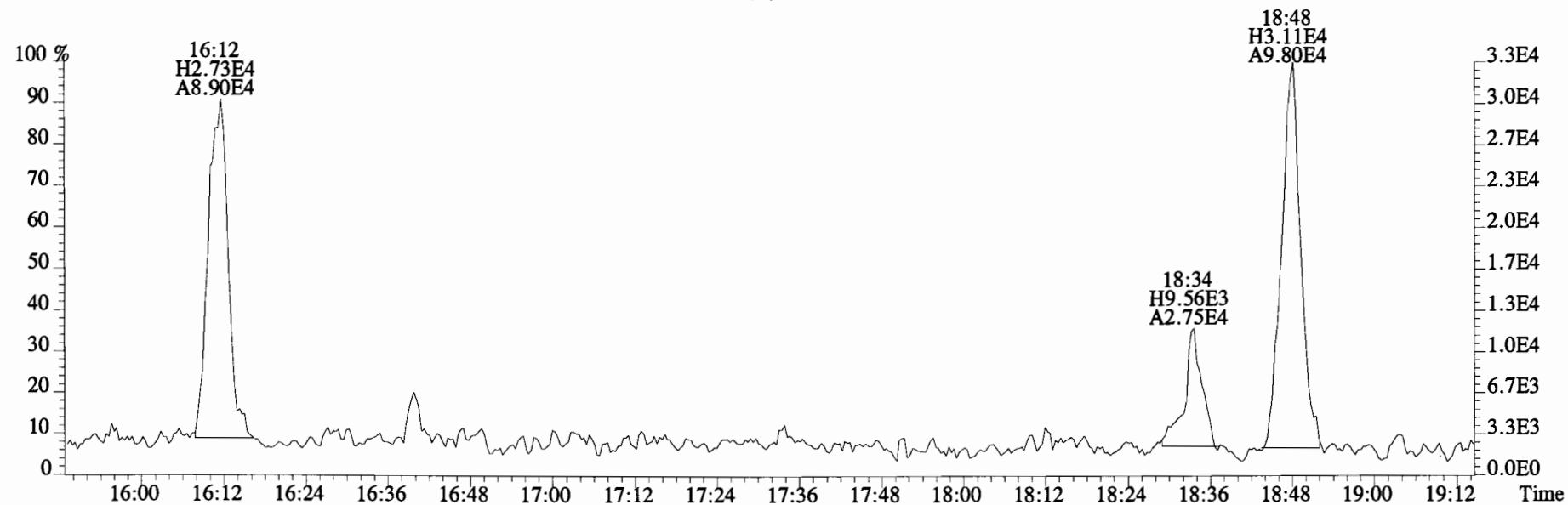
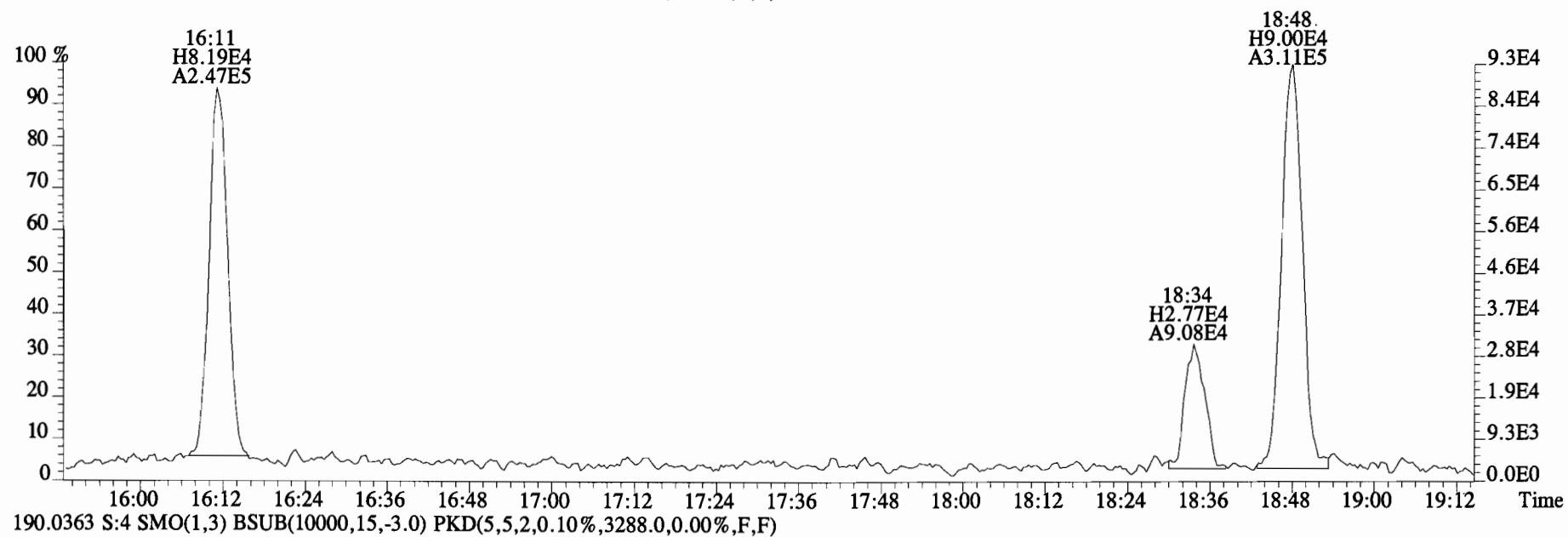
202.0766 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,44444.0,0.00%,F,F)



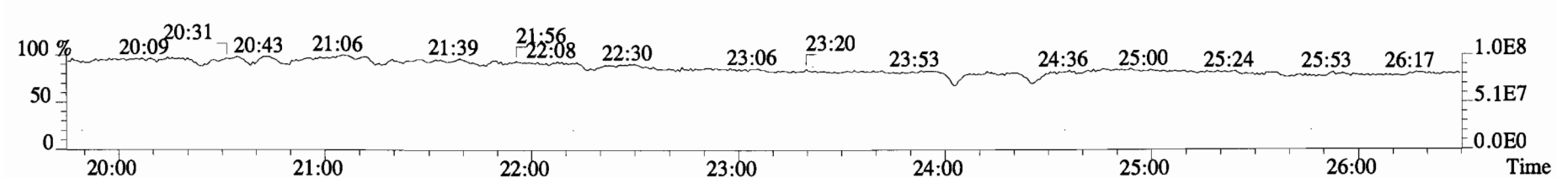
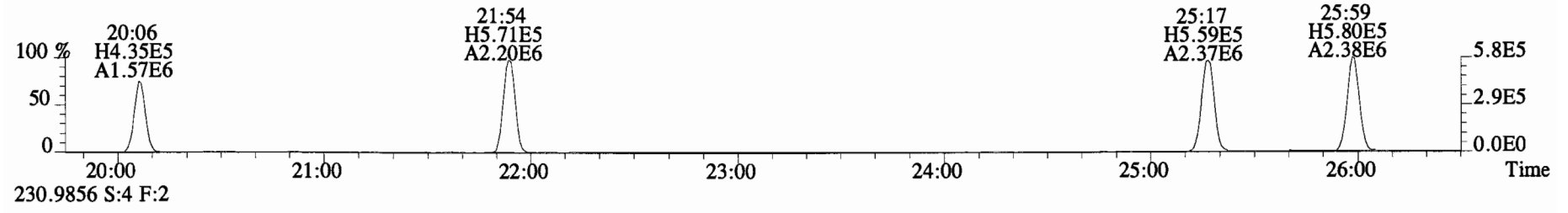
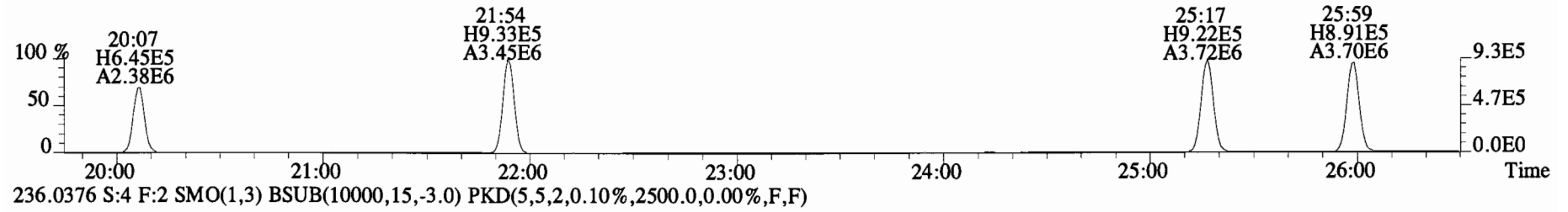
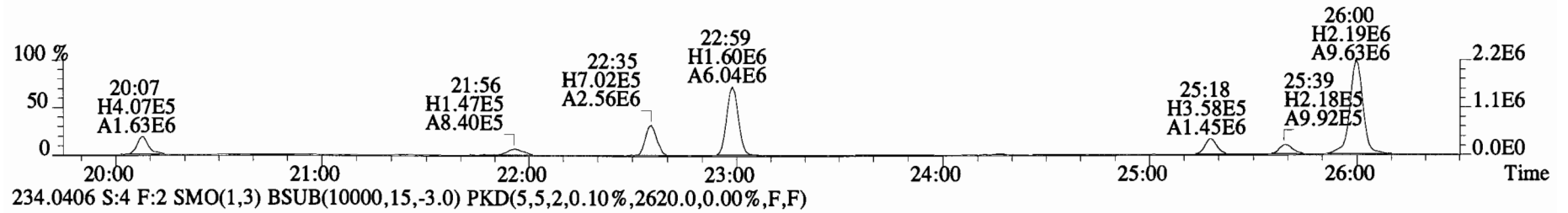
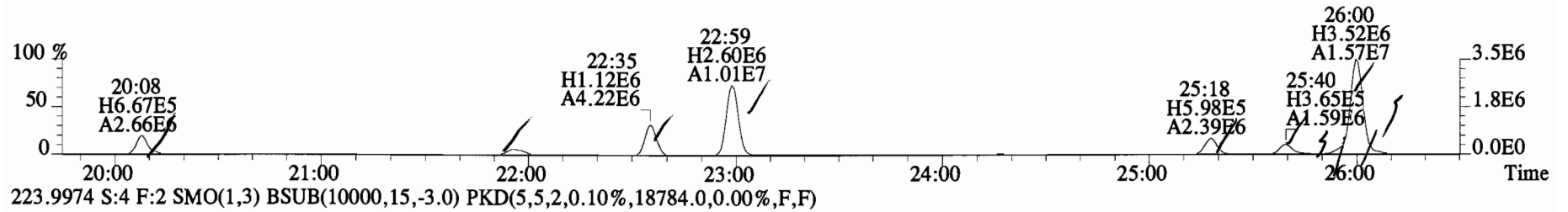
180.9880 S:4



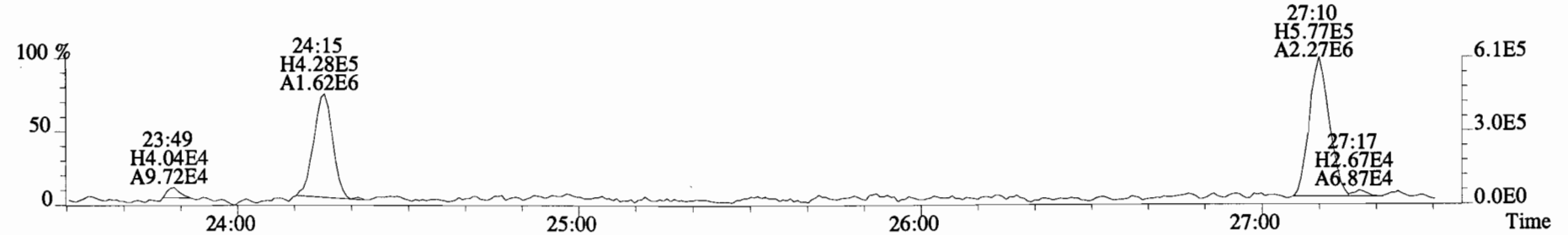
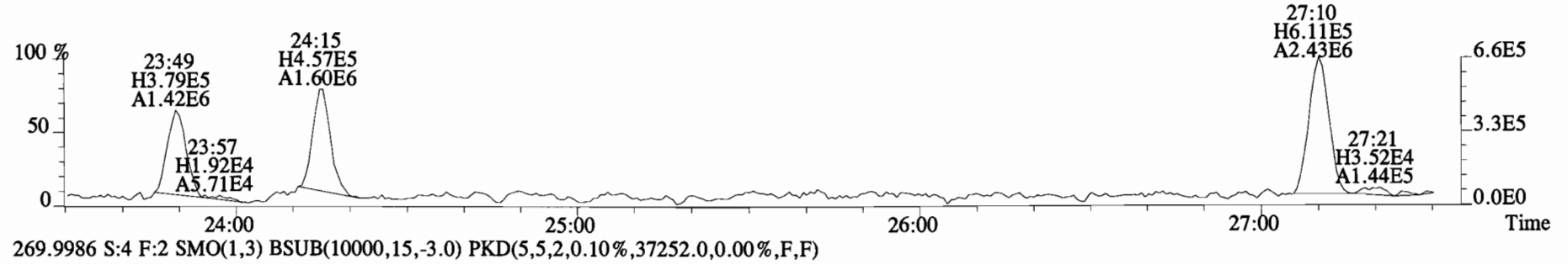
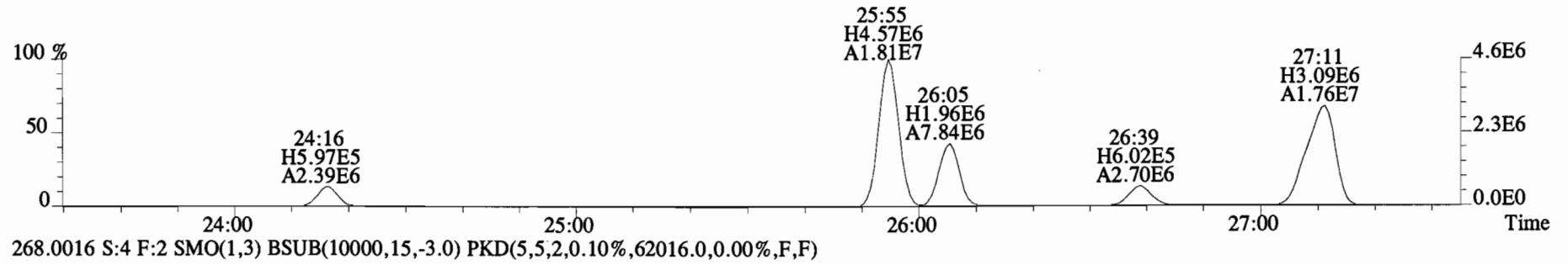
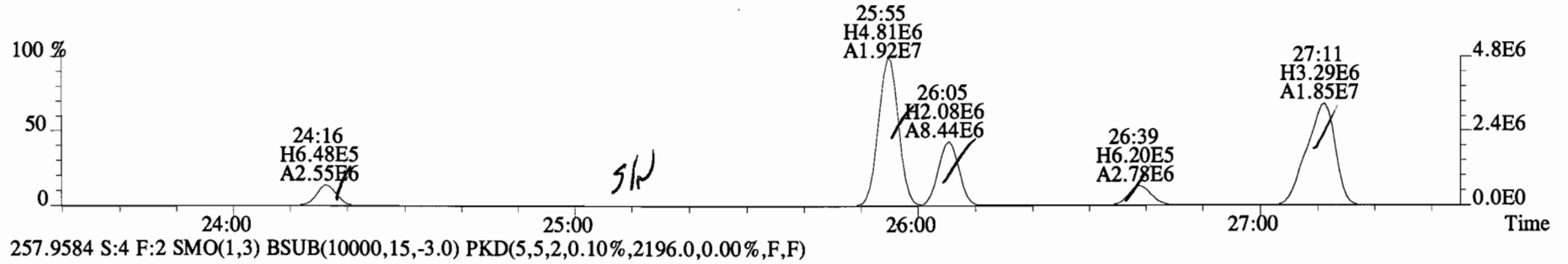
File:150319E1 #1-867 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4888.0,0.00%,F,F)



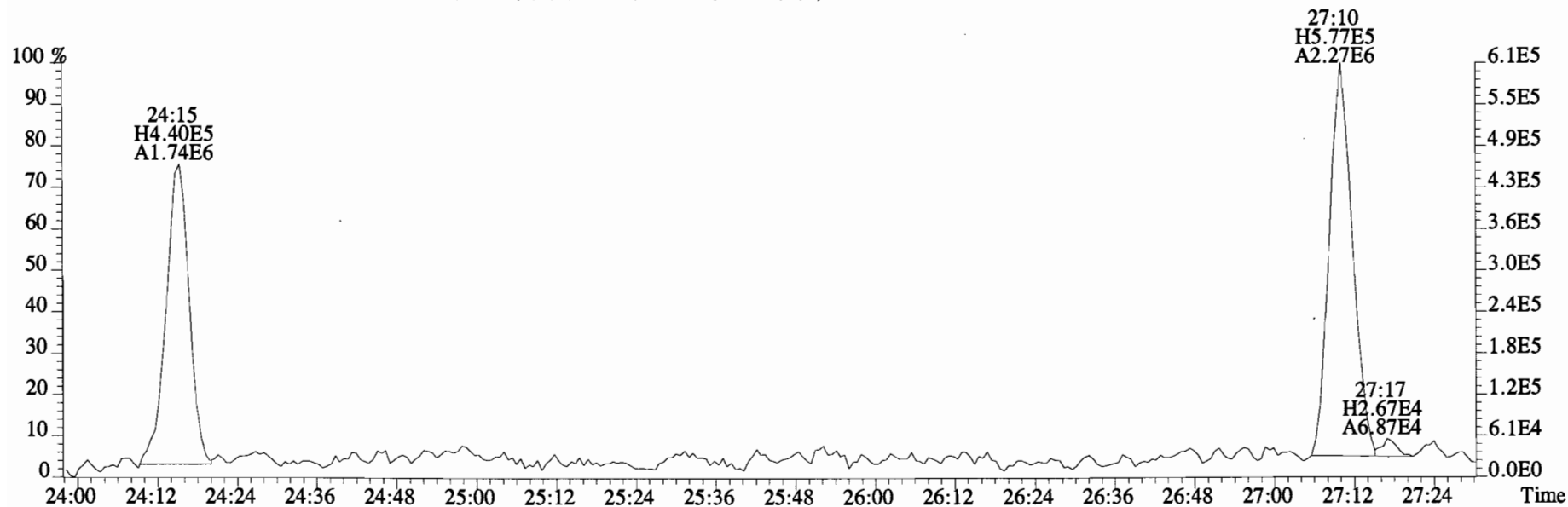
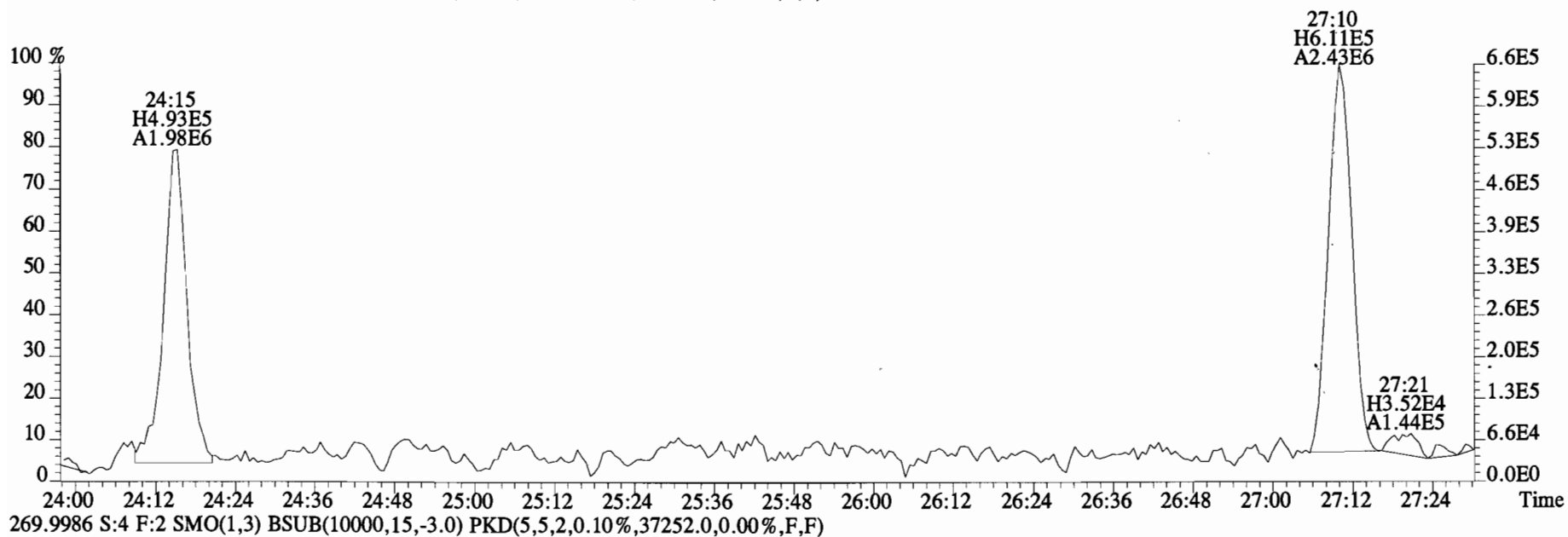
File:150319E1 #1-757 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3824.0,0.00%,F,F)



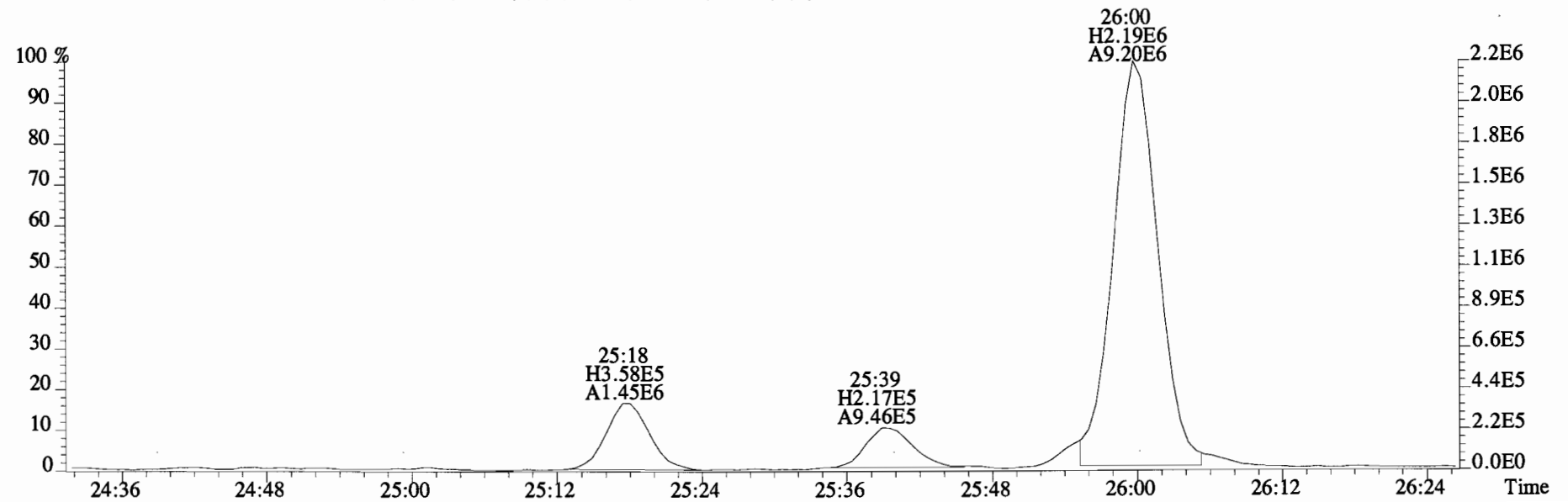
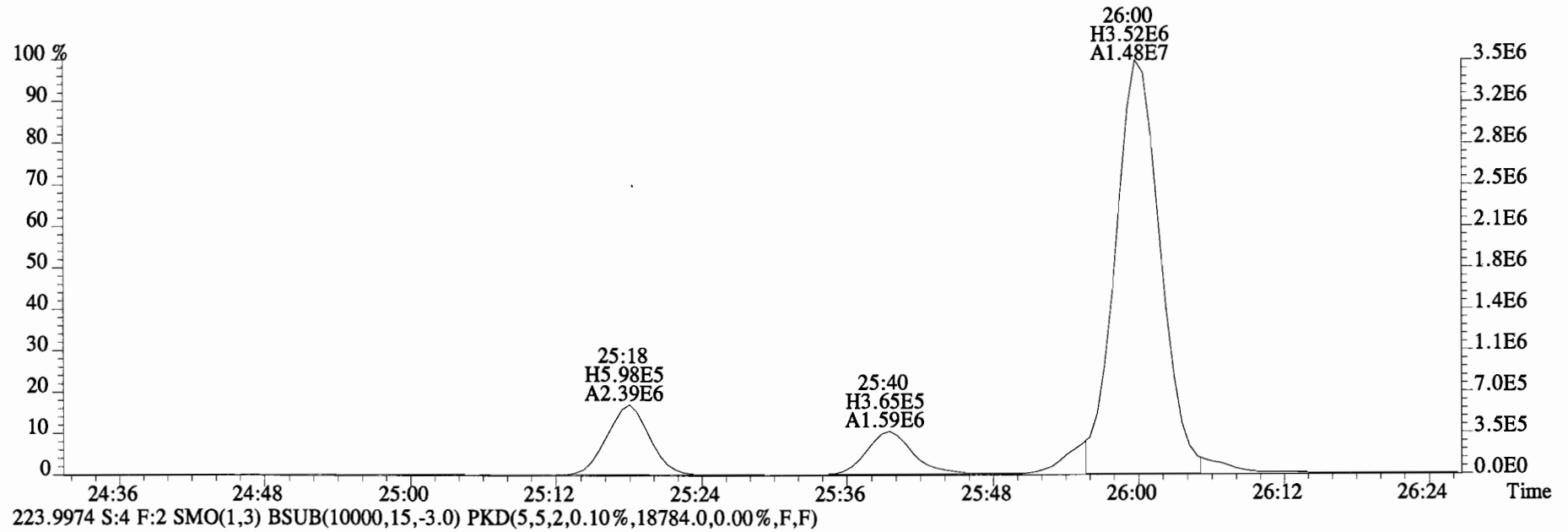
File:150319E1 #1-757 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6552.0,0.00%,F,F)



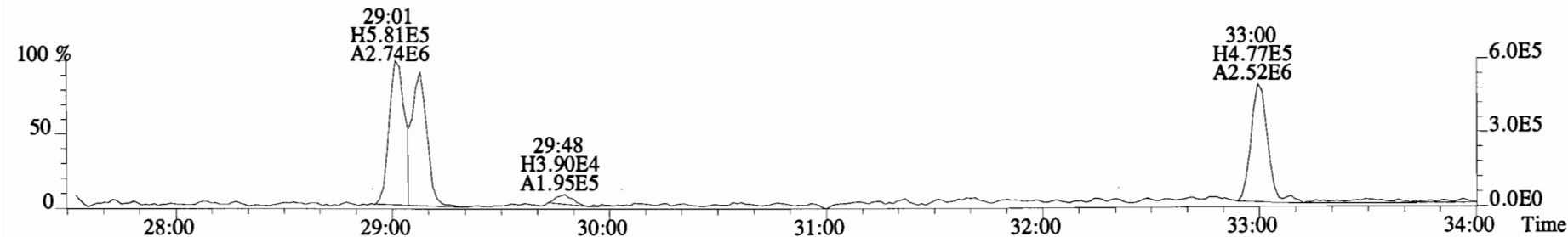
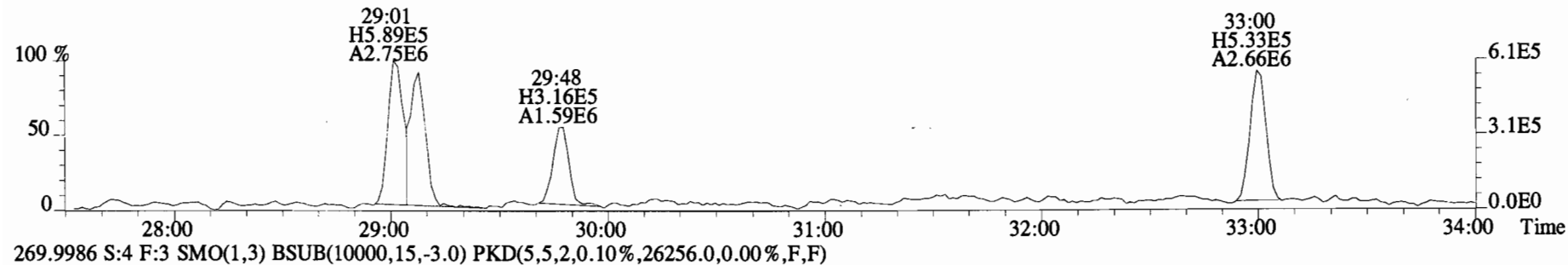
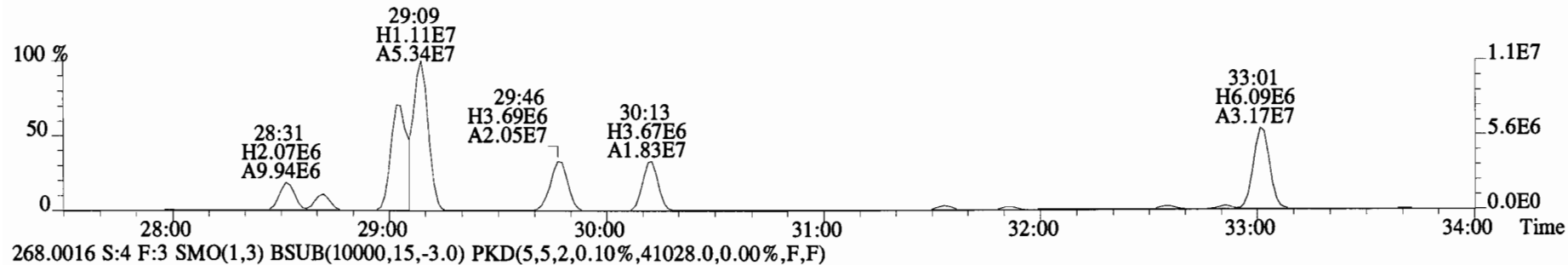
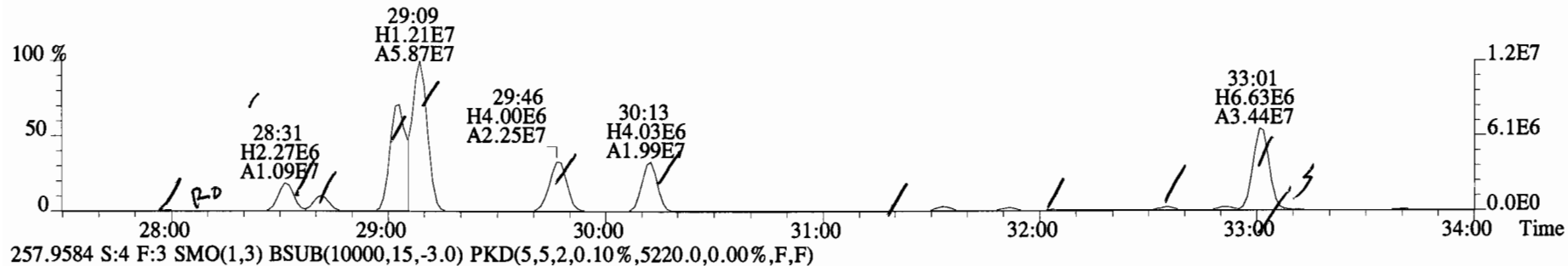
File:150319E1 #1-757 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,62016.0,0.00%,F,F)



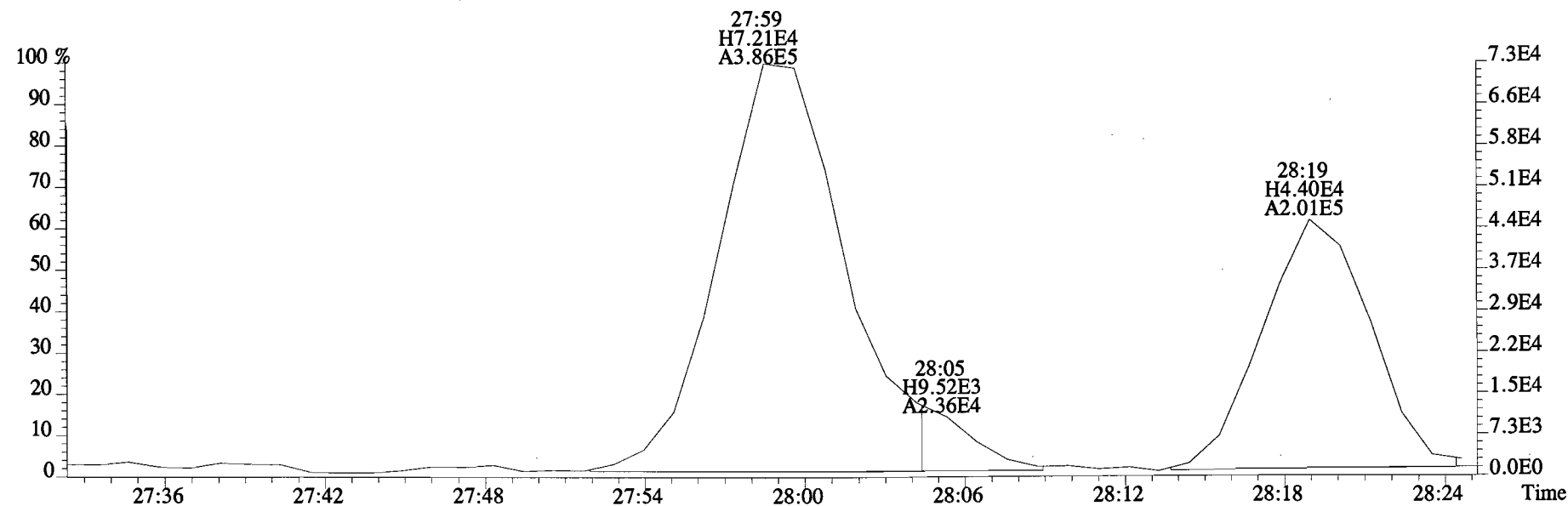
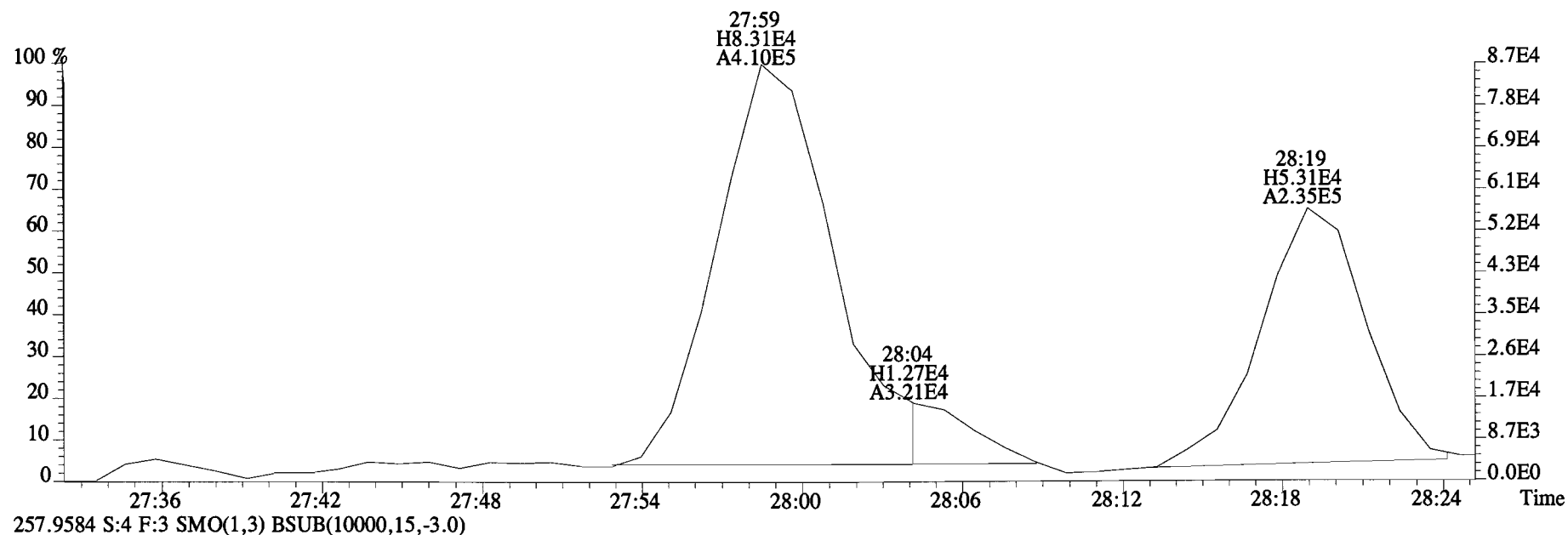
File:150319E1 #1-757 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3824.0,0.00%,F,F)



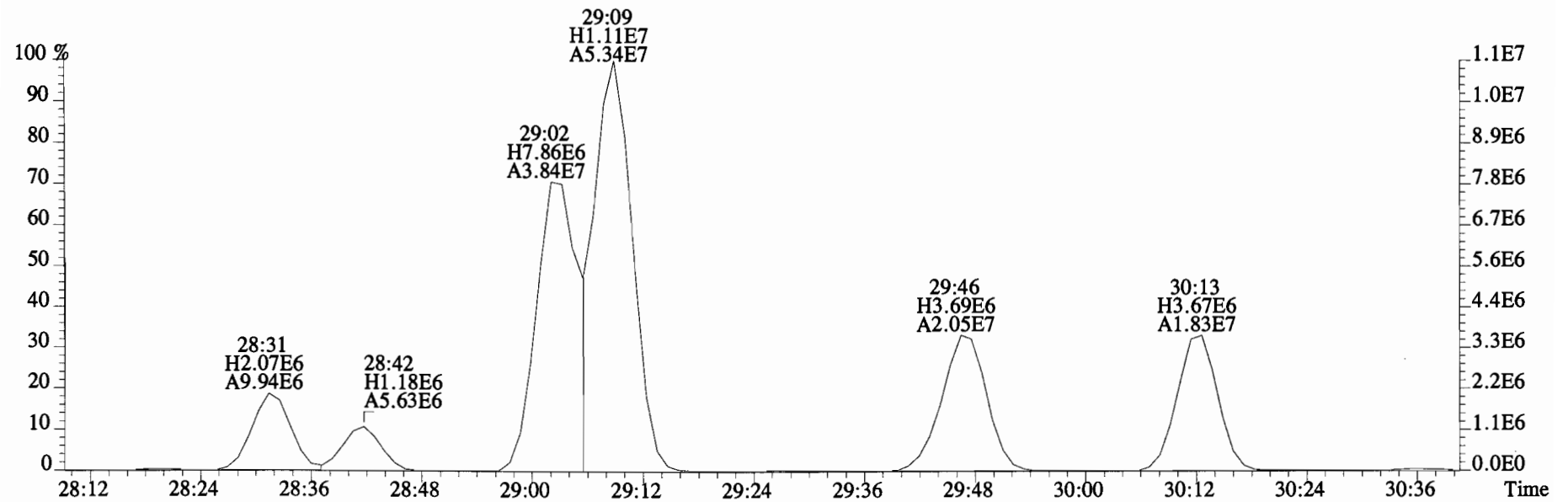
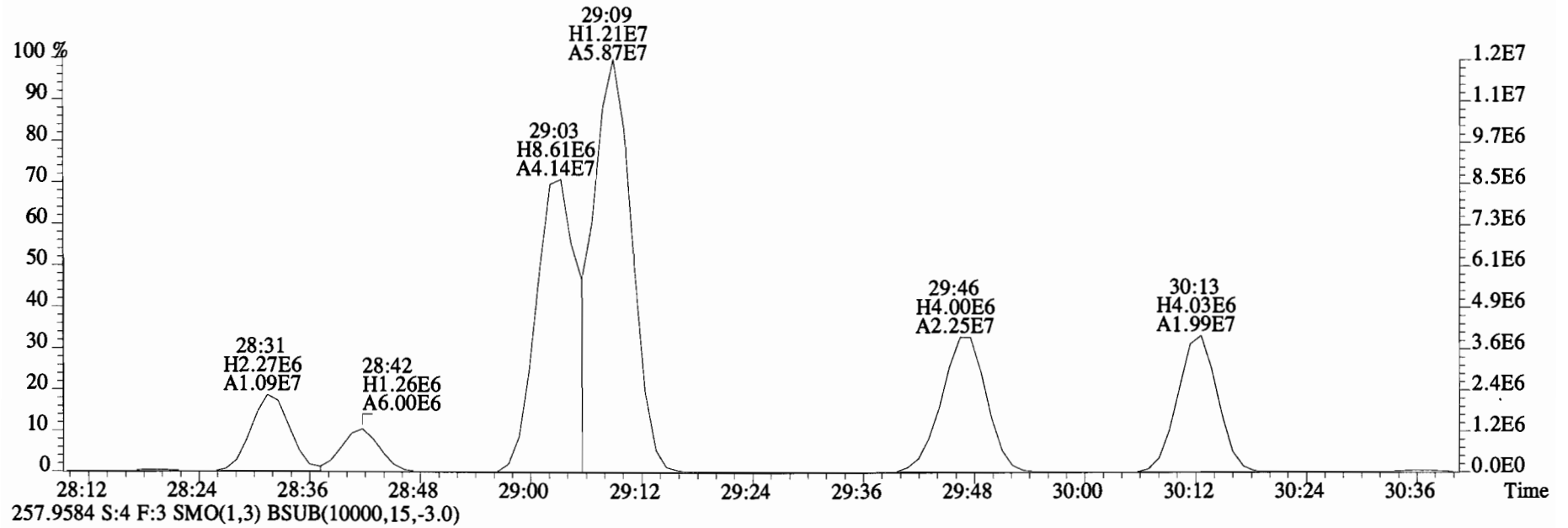
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,9544.0,0.00%,F,F)



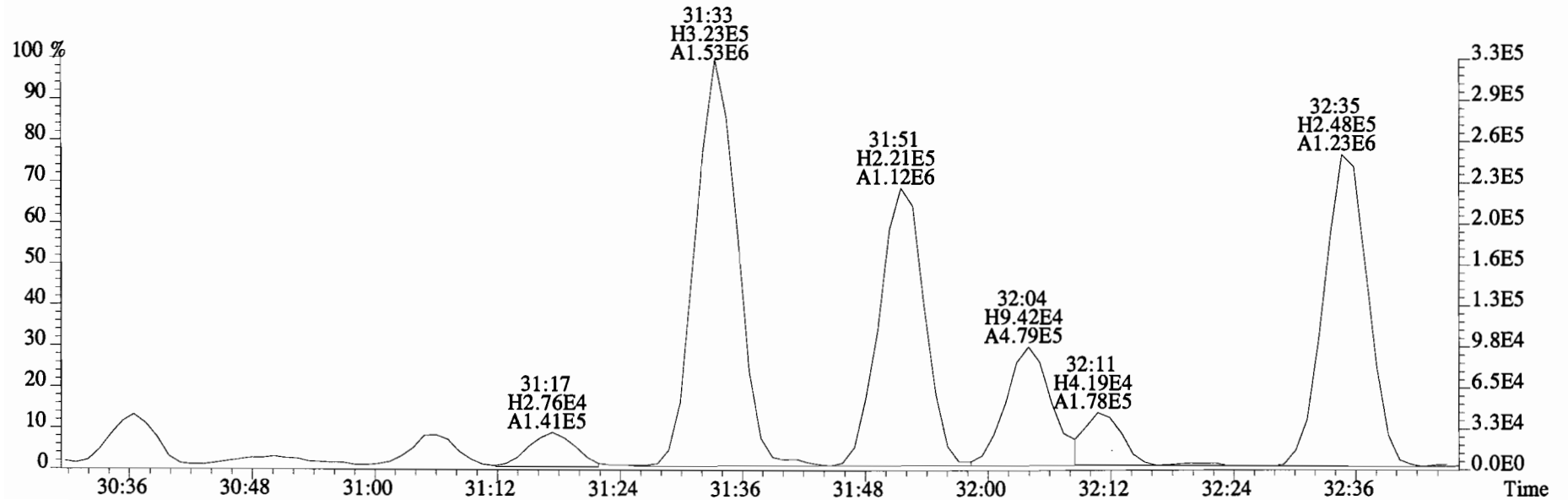
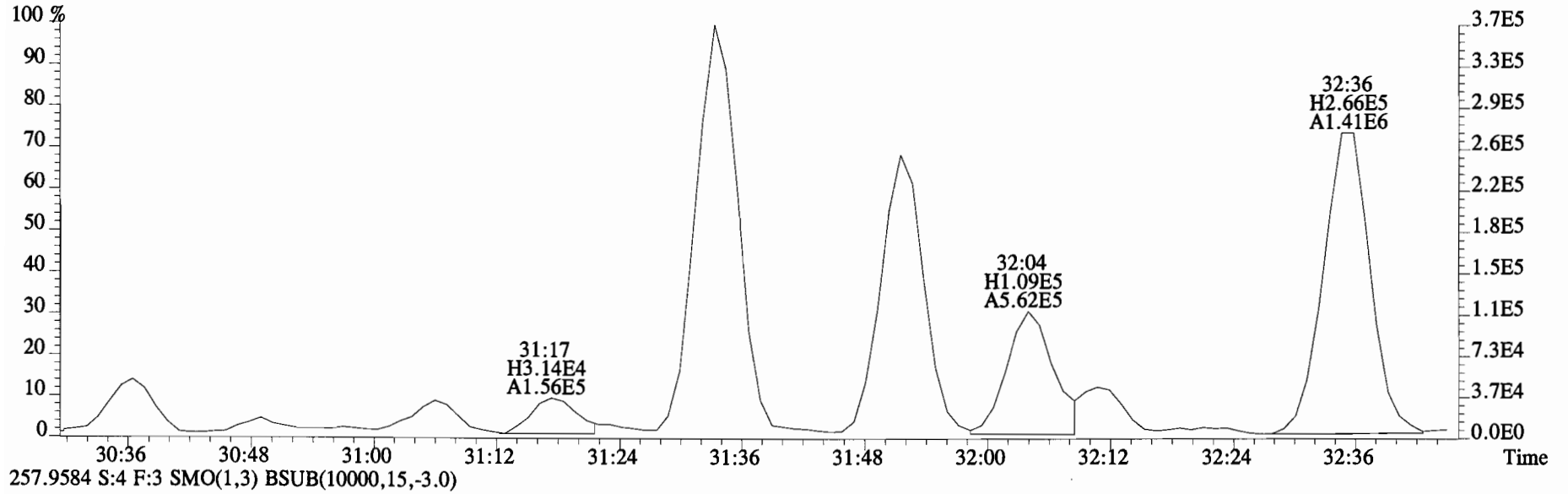
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



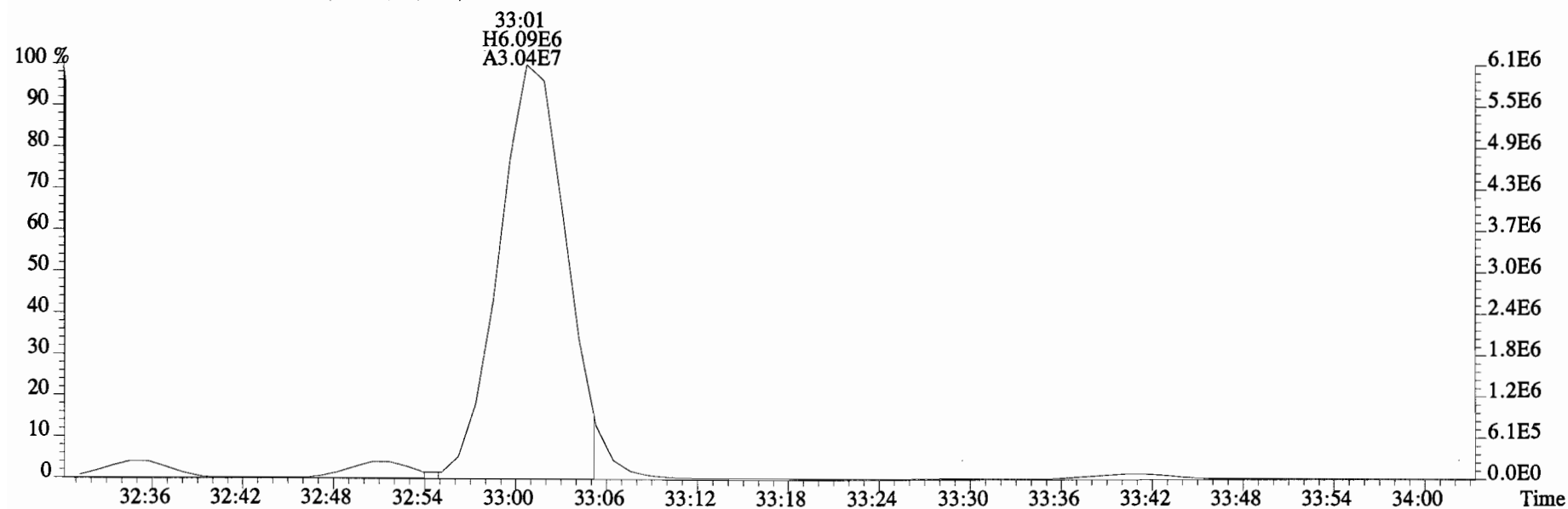
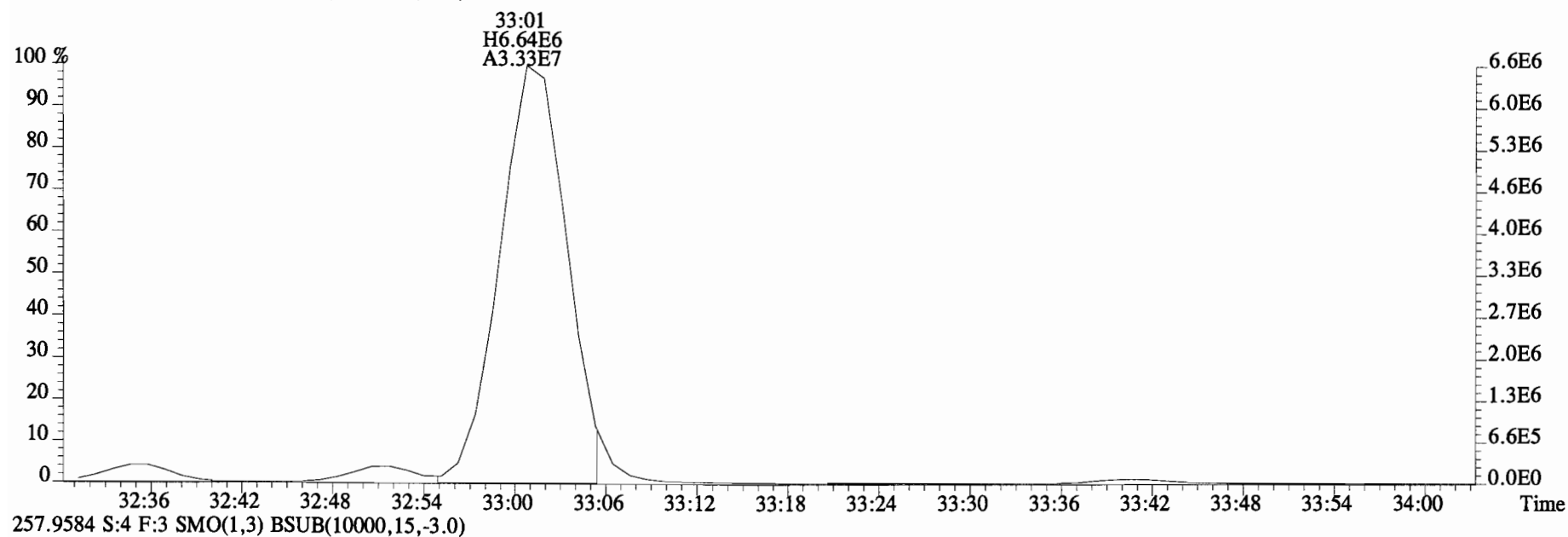
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



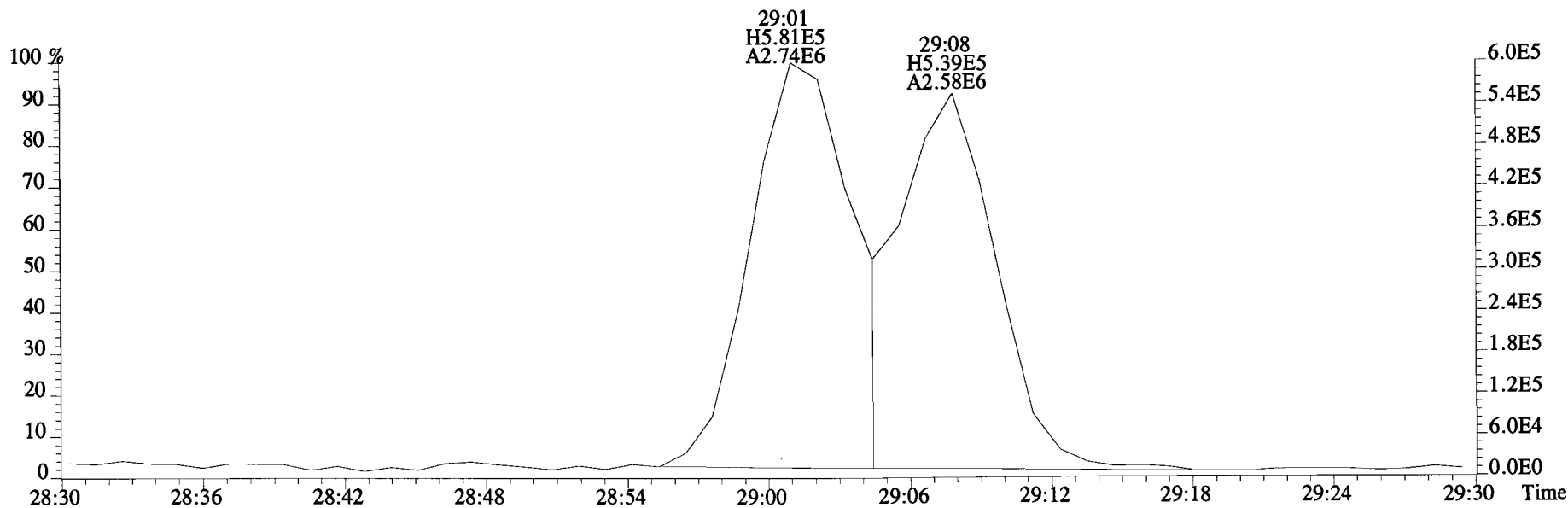
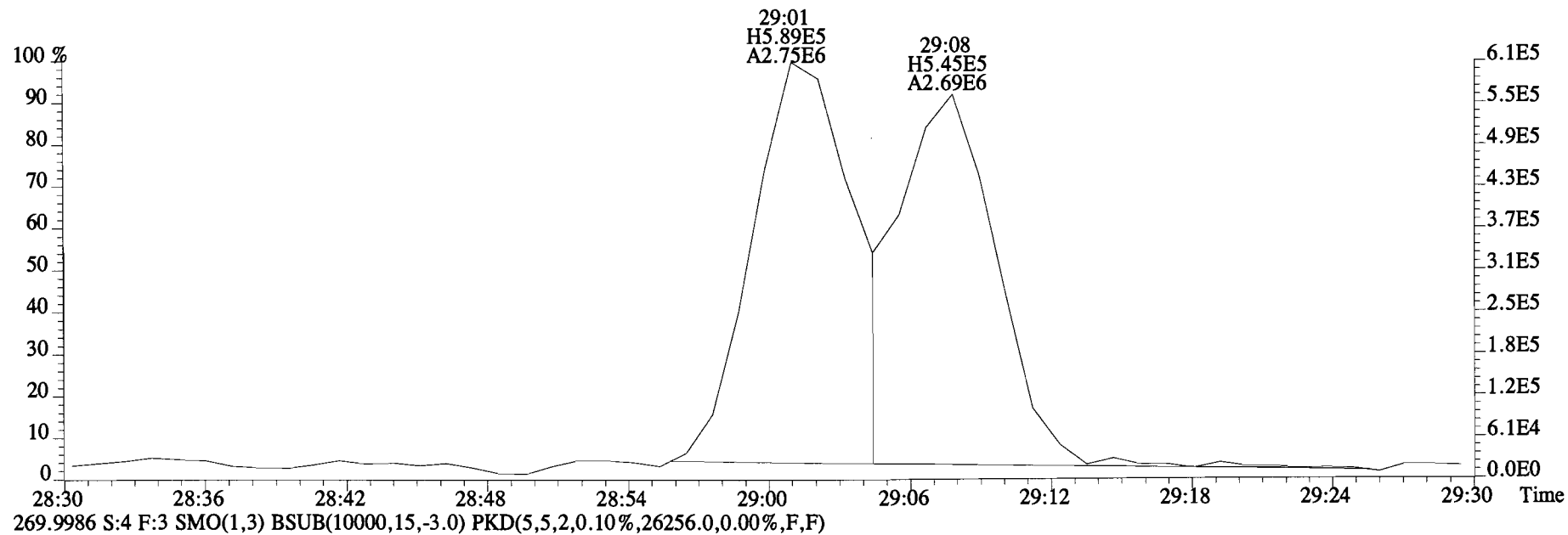
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



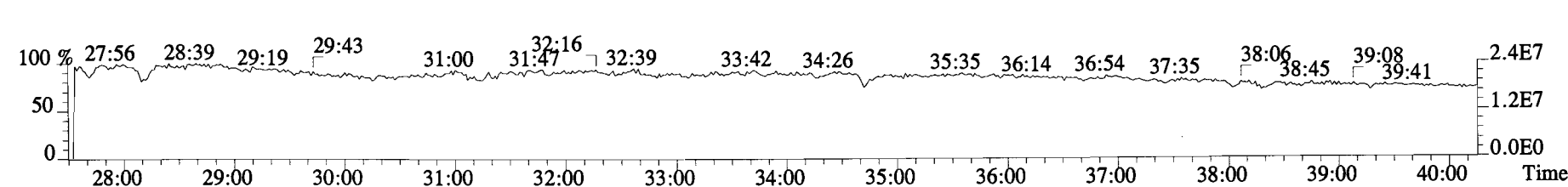
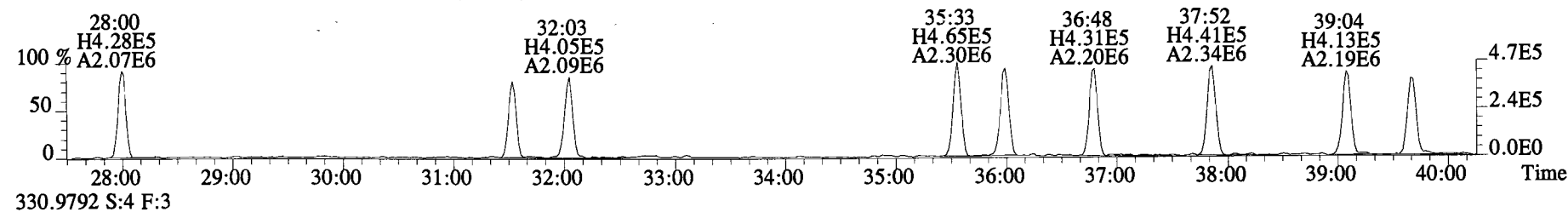
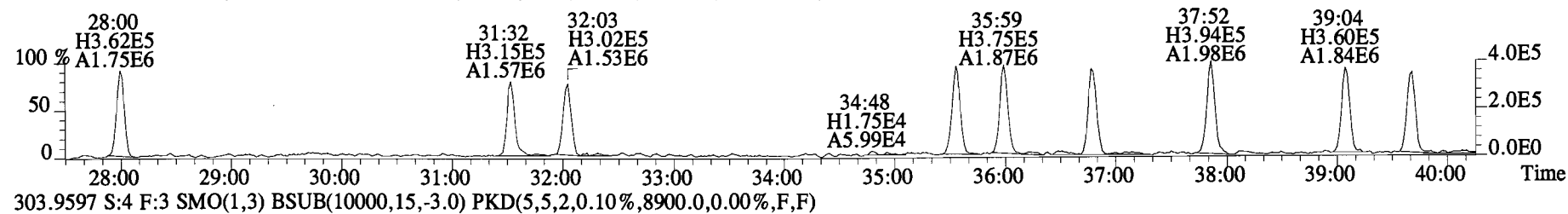
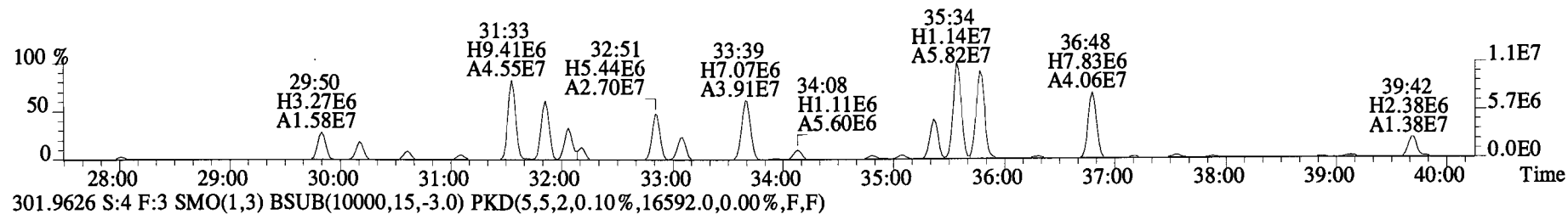
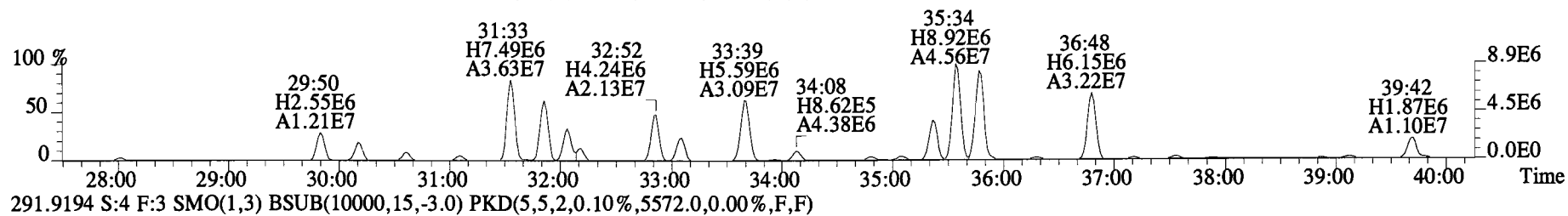
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0)



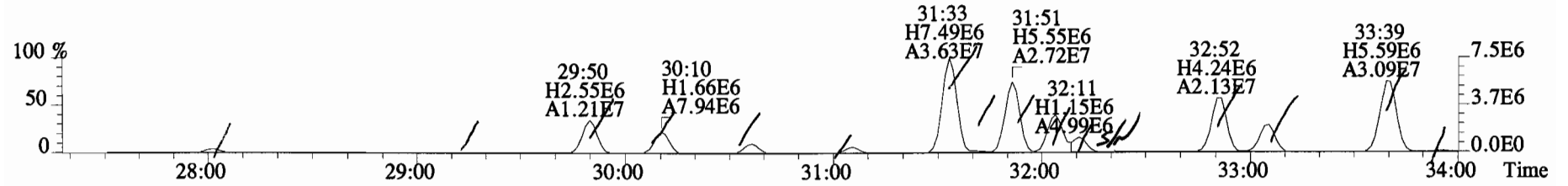
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,41028.0,0.00%,F,F)



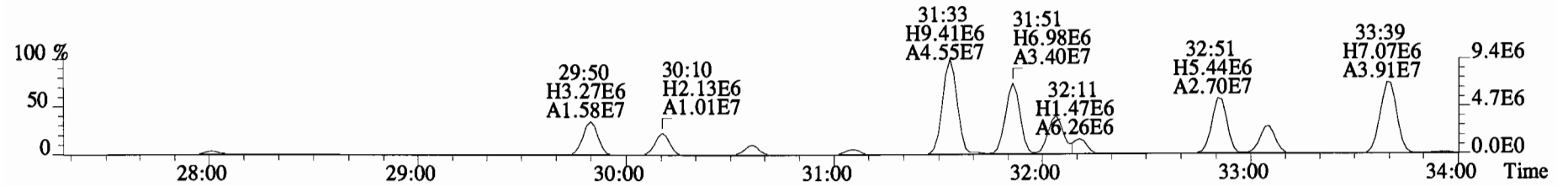
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



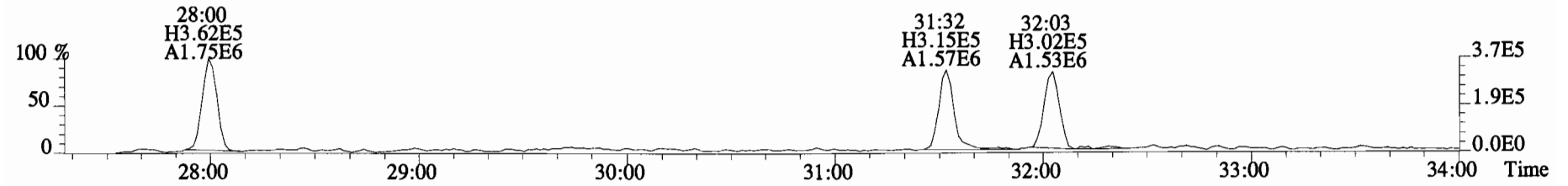
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



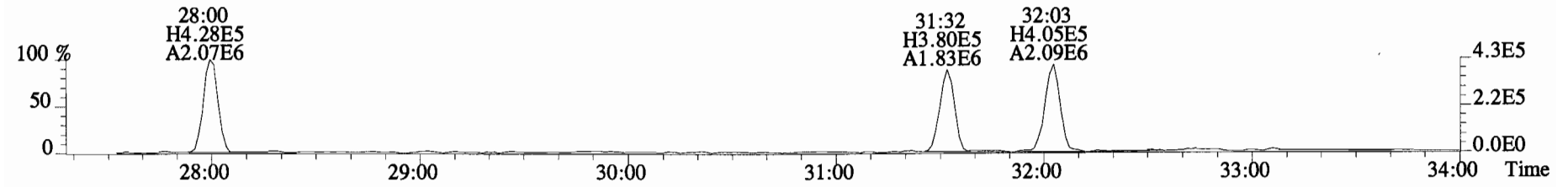
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5572.0,0.00%,F,F)



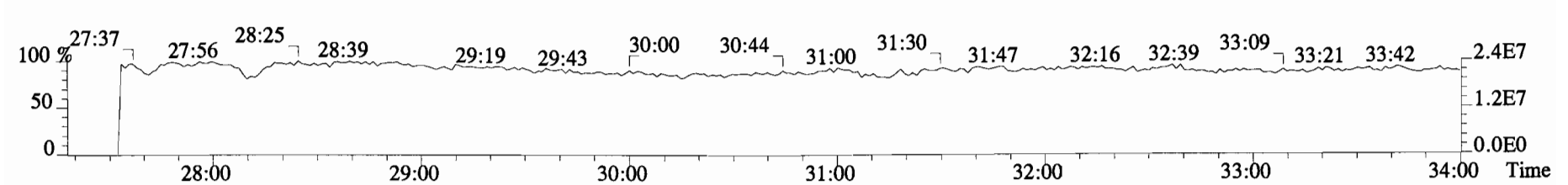
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,16592.0,0.00%,F,F)



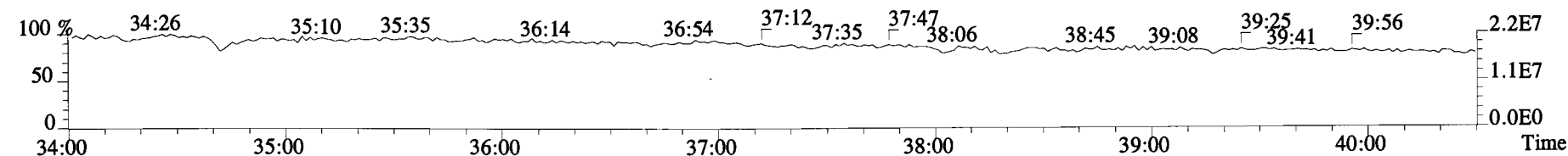
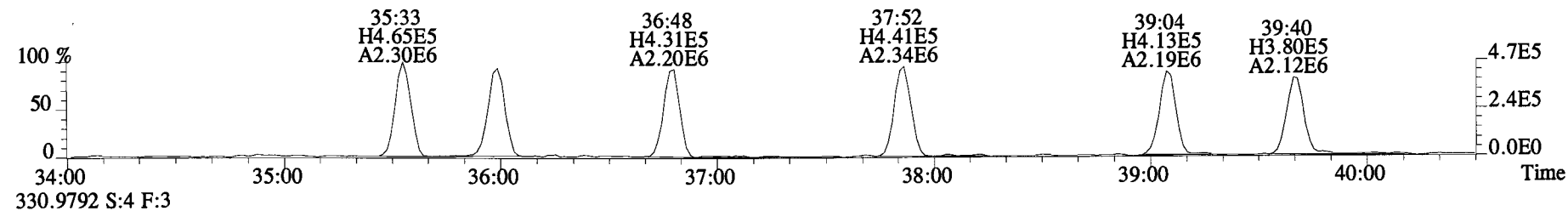
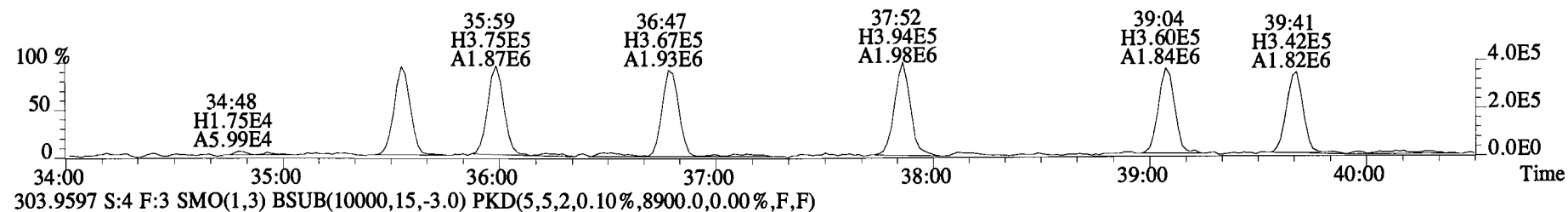
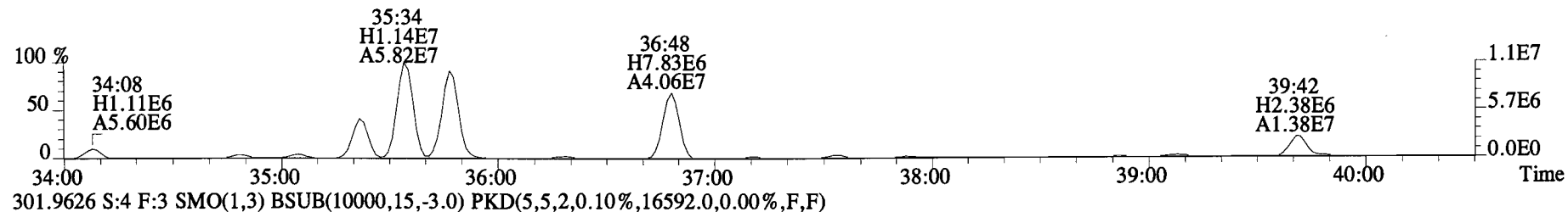
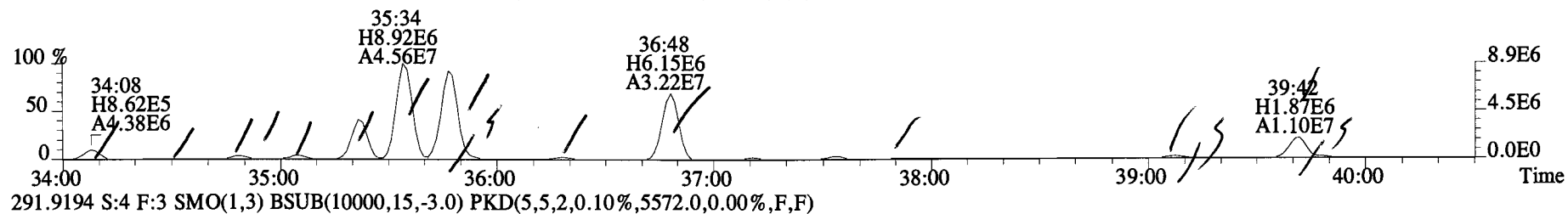
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8900.0,0.00%,F,F)



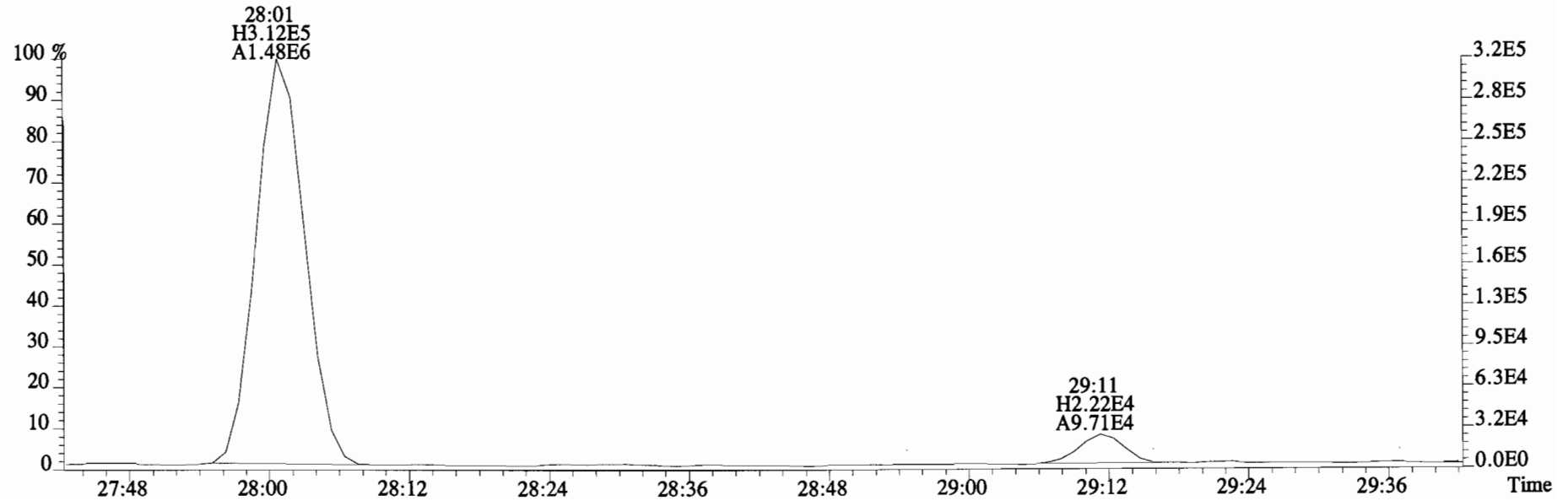
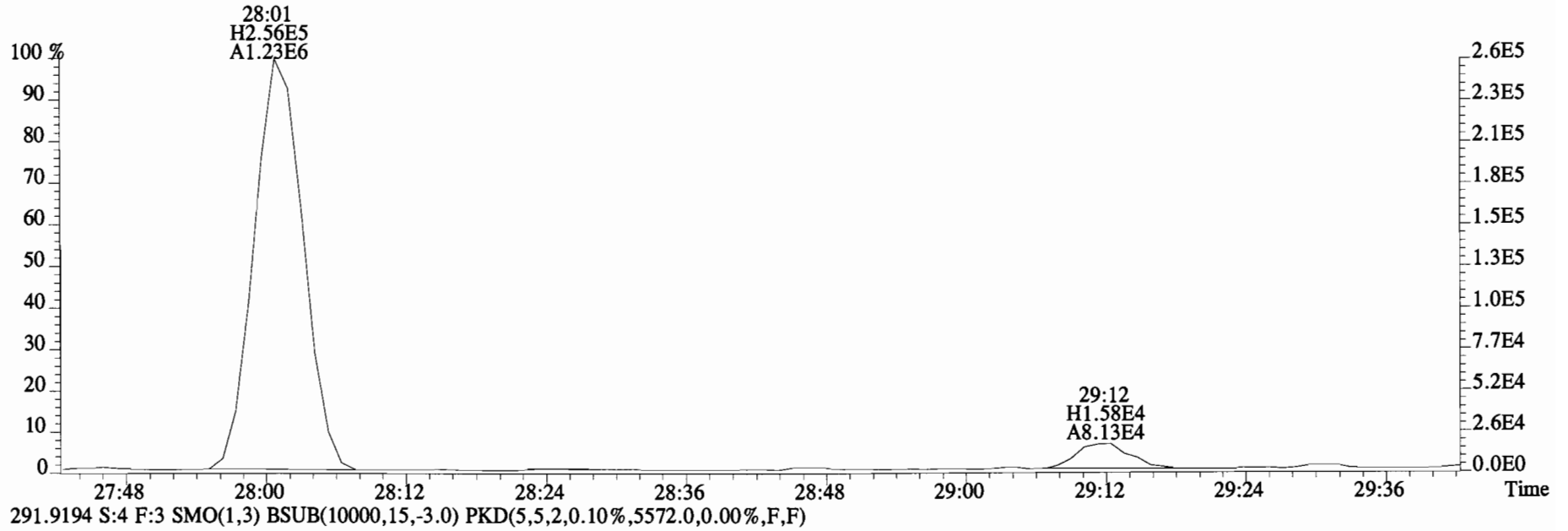
330.9792 S:4 F:3



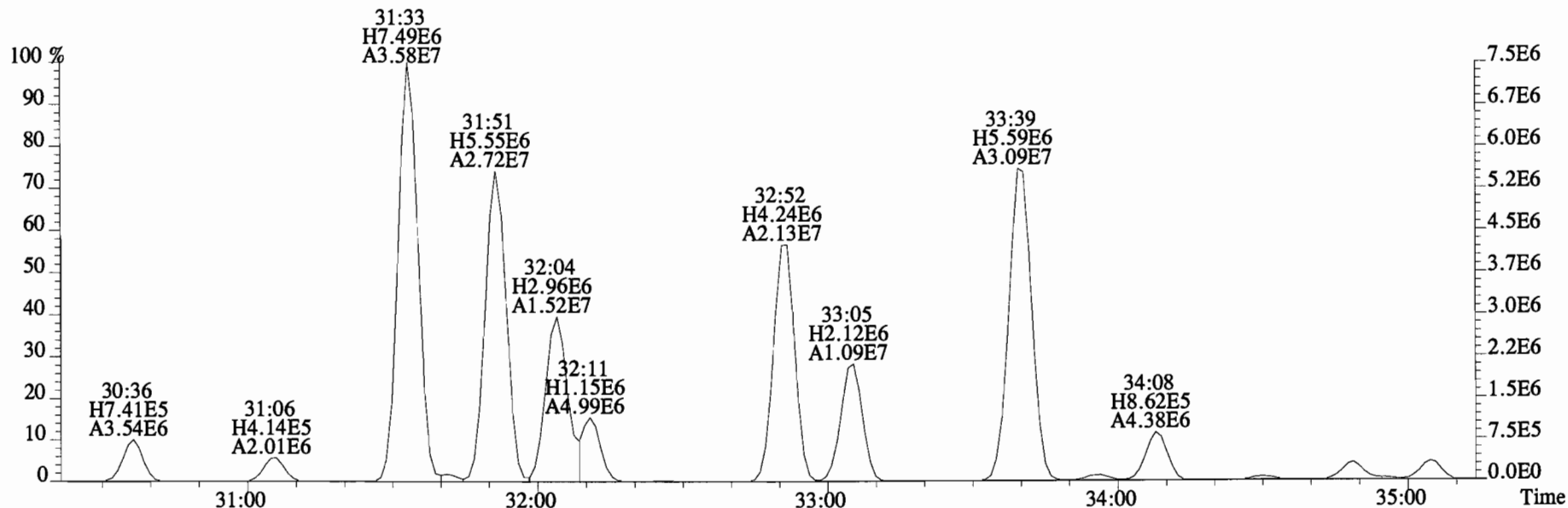
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



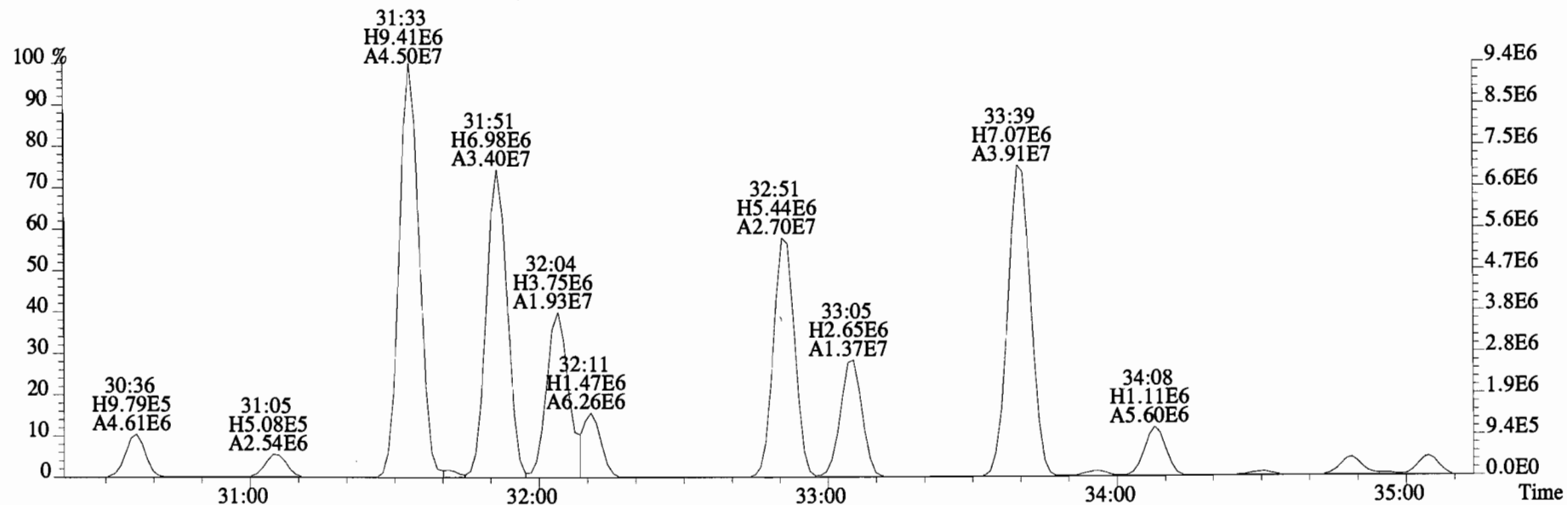
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



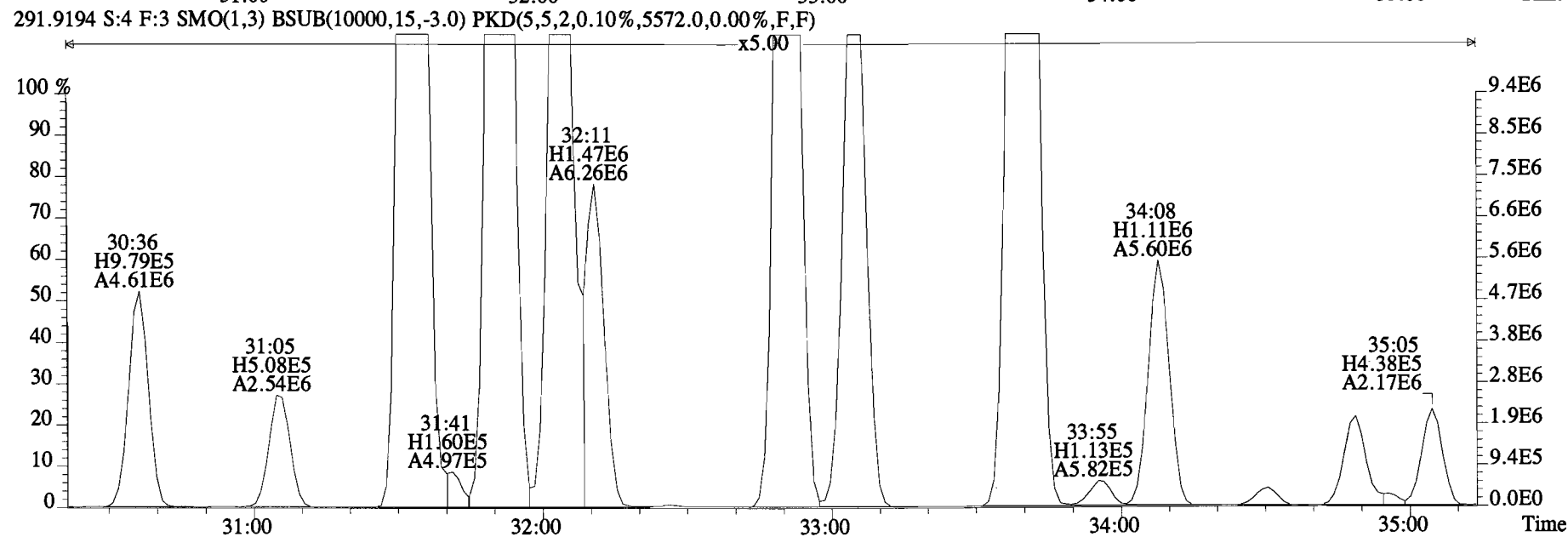
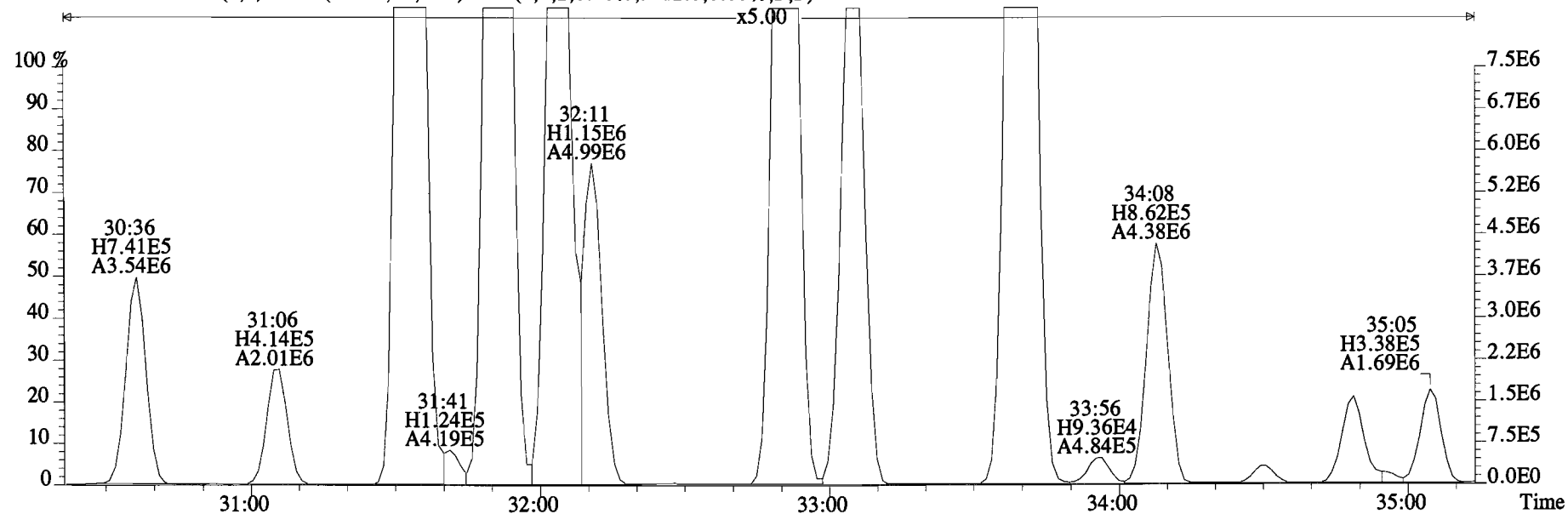
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 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



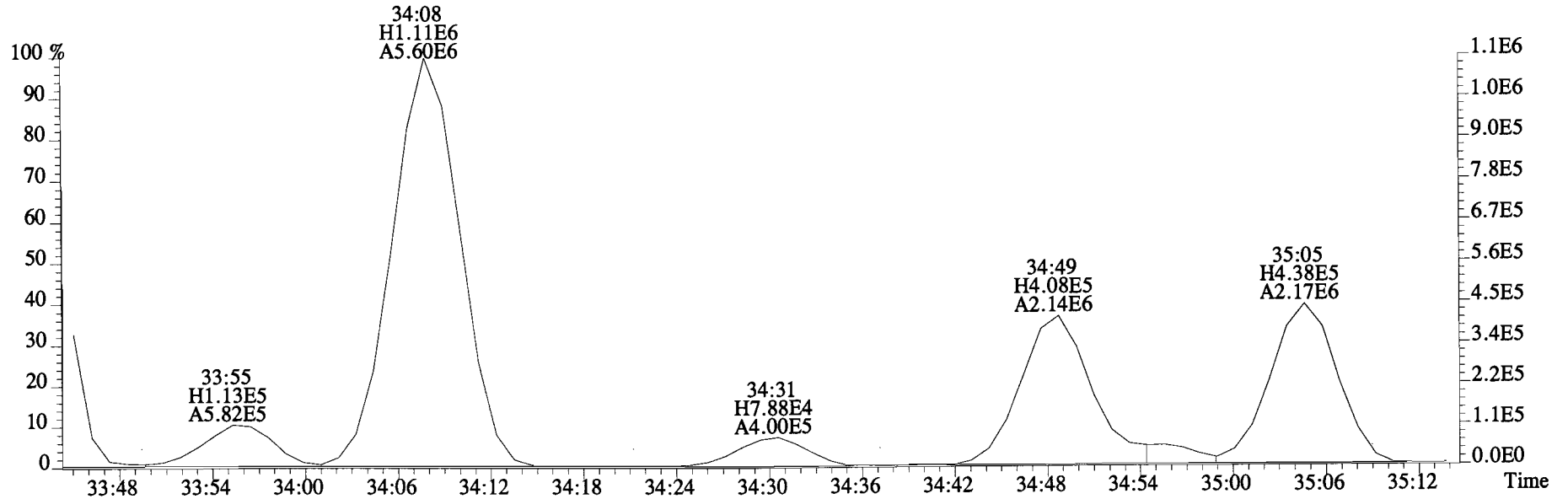
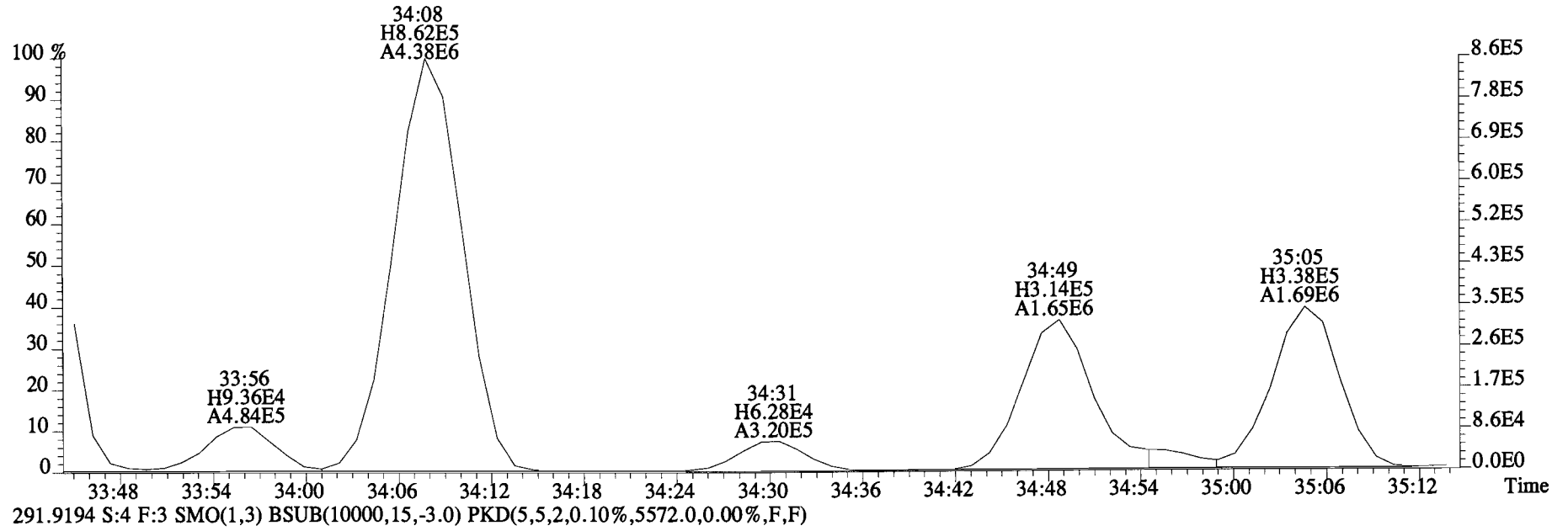
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5572.0,0.00%,F,F)



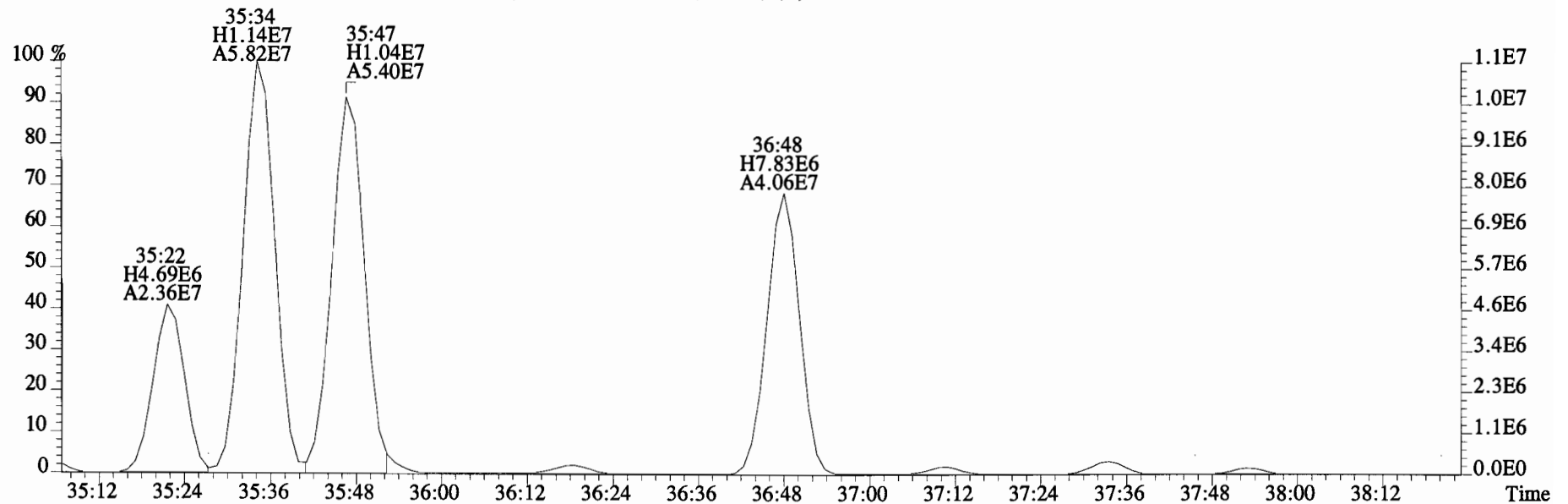
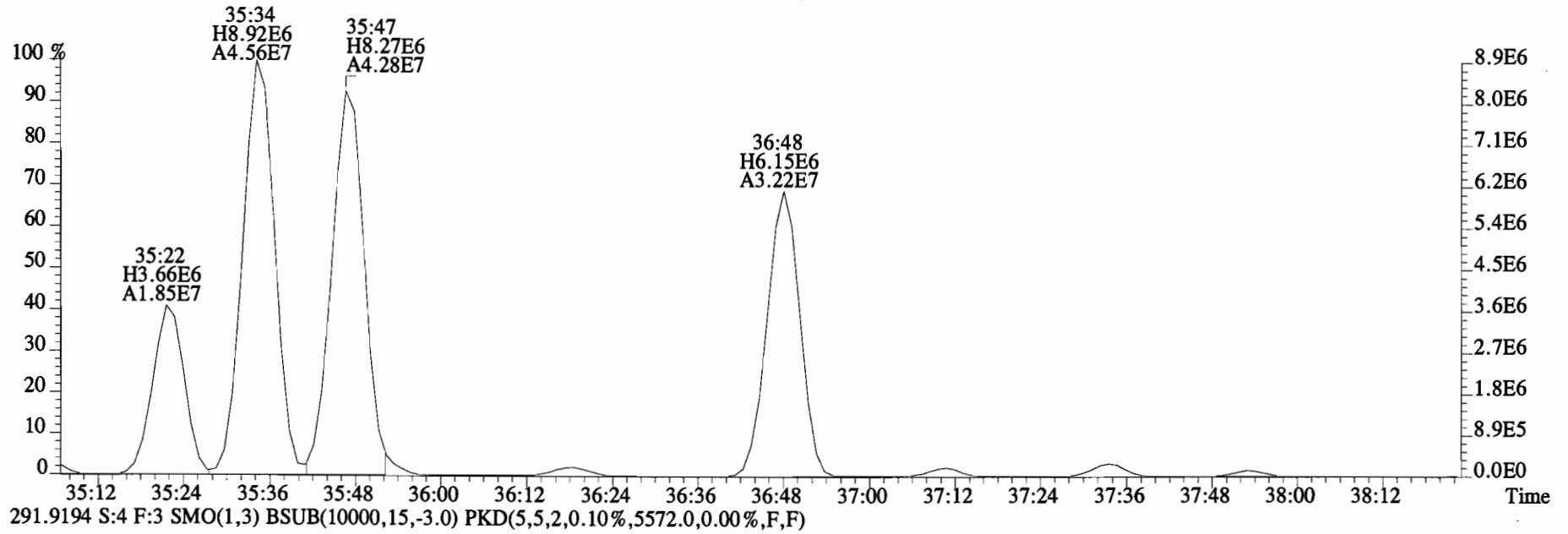
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



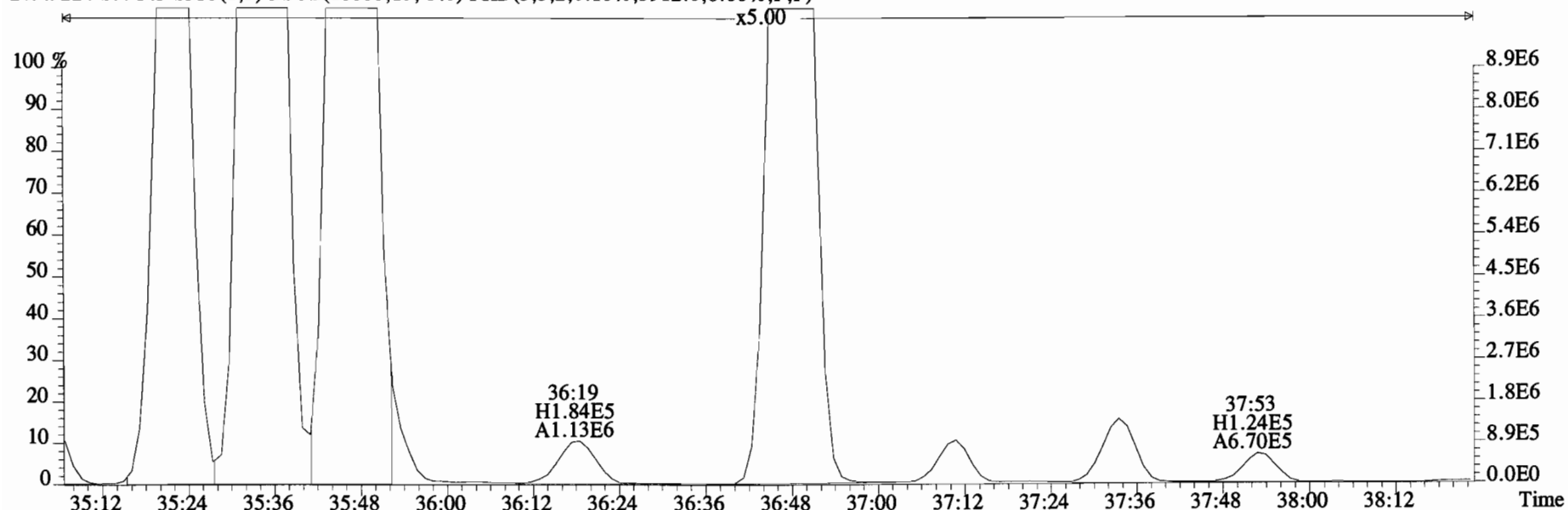
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



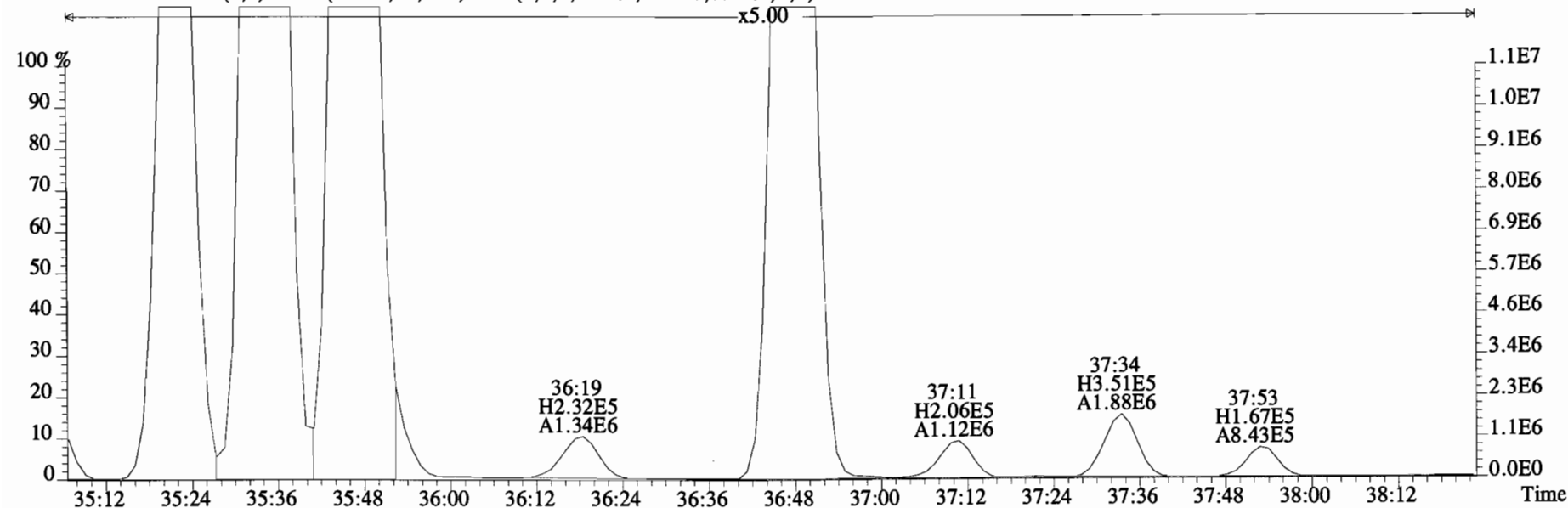
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



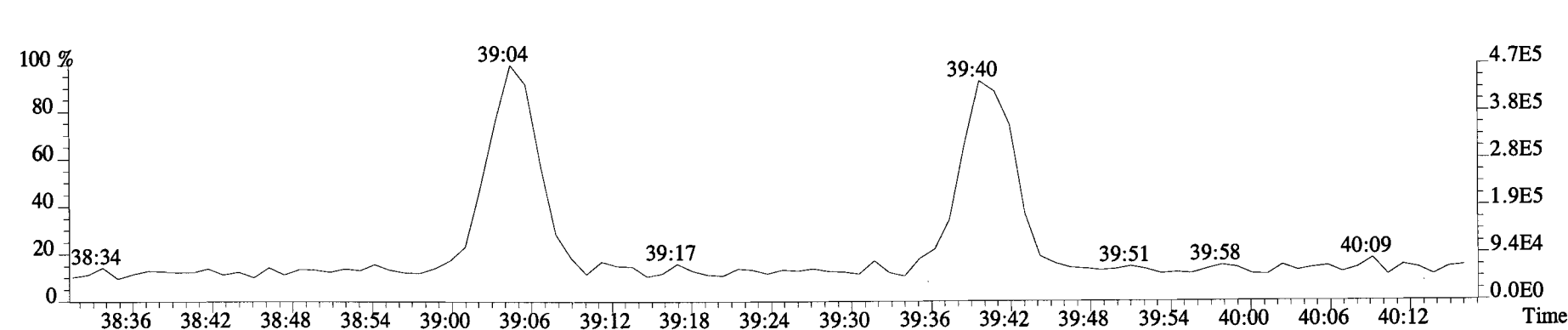
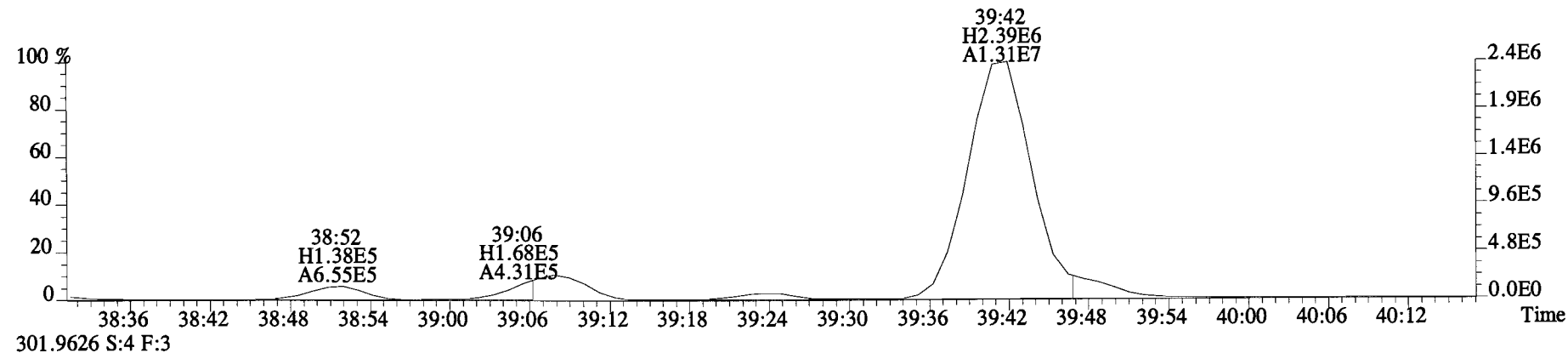
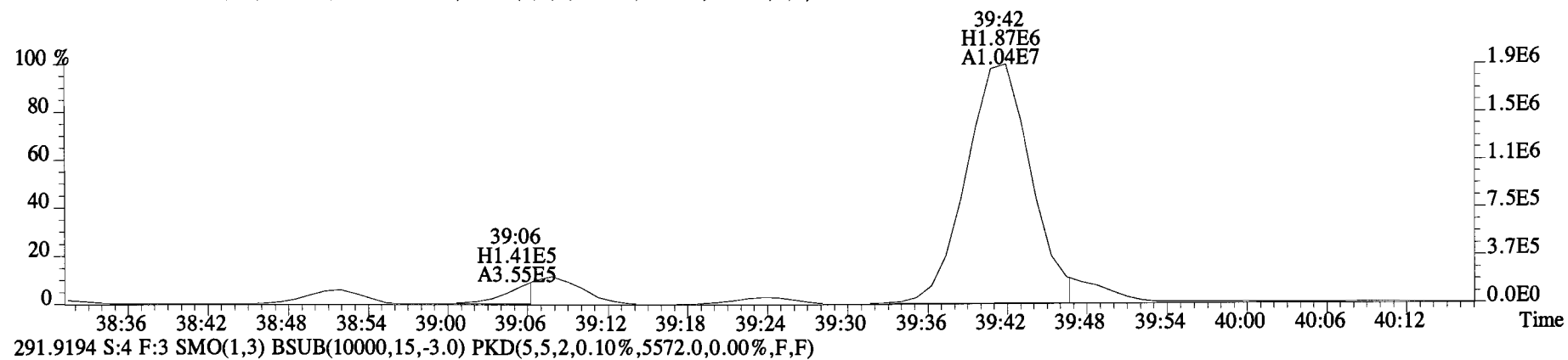
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



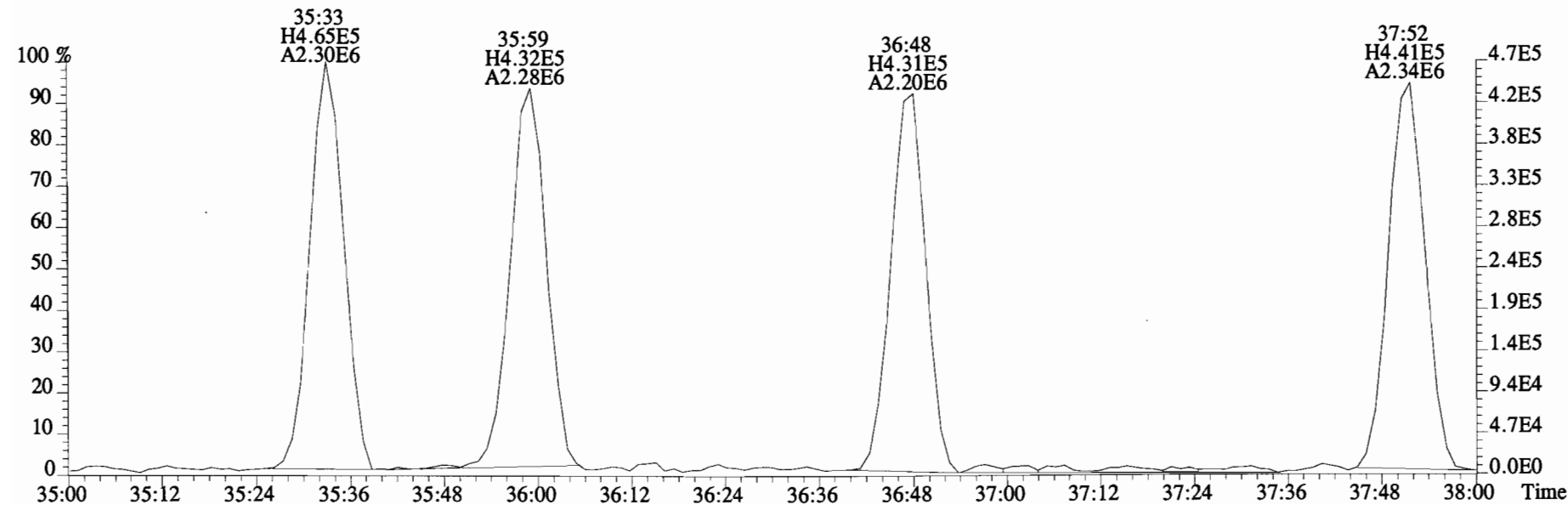
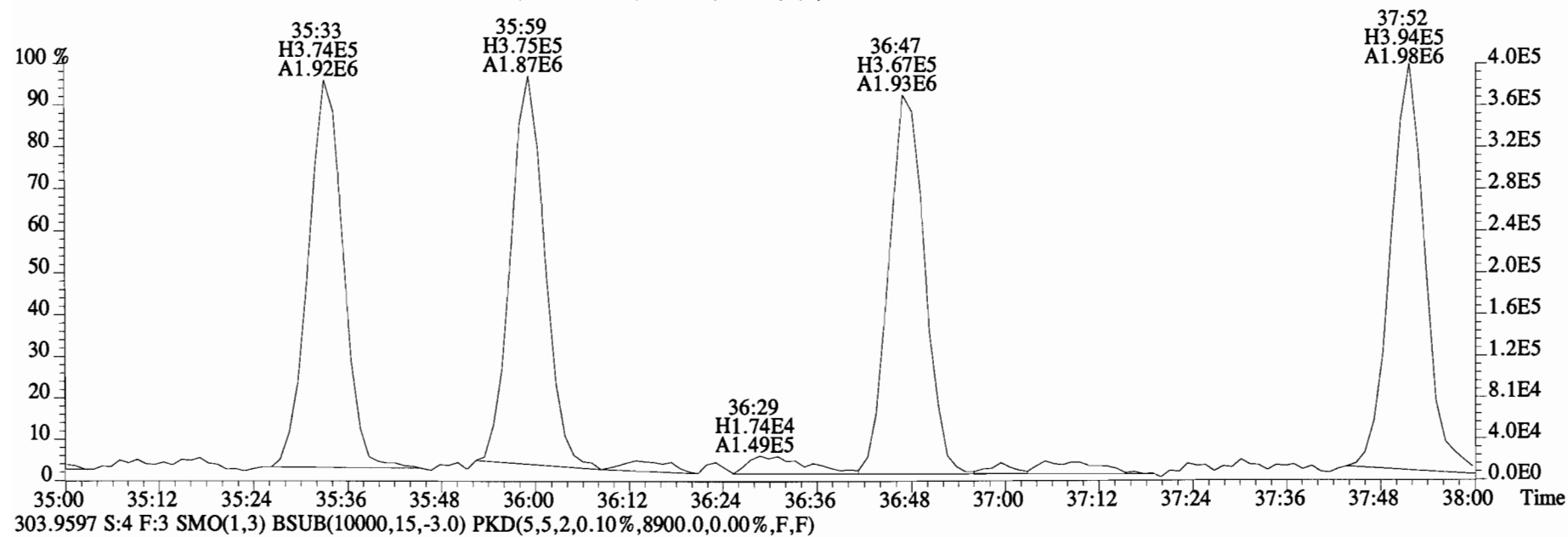
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5572.0,0.00%,F,F)



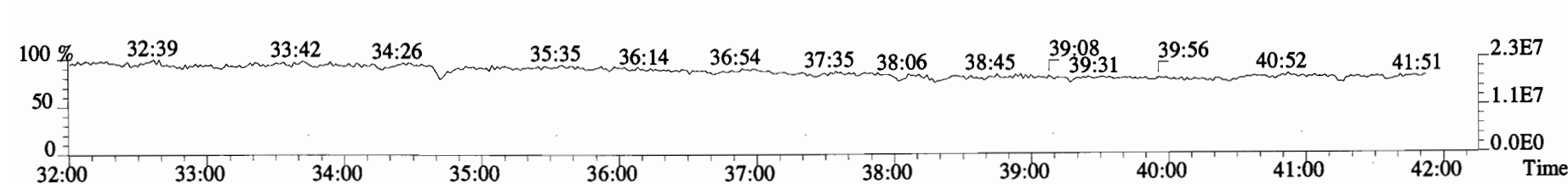
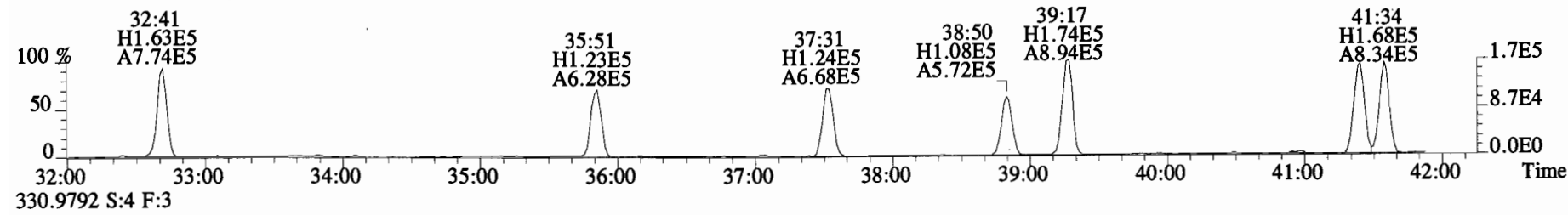
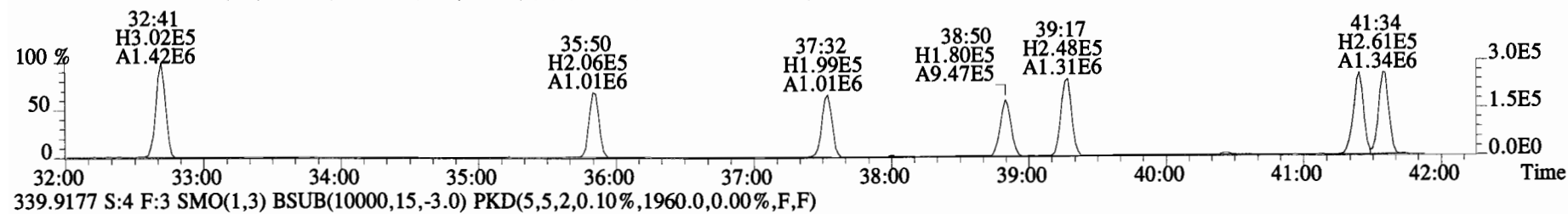
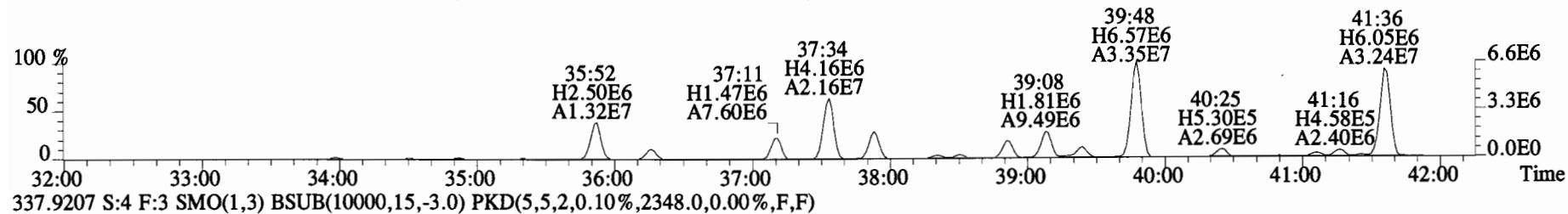
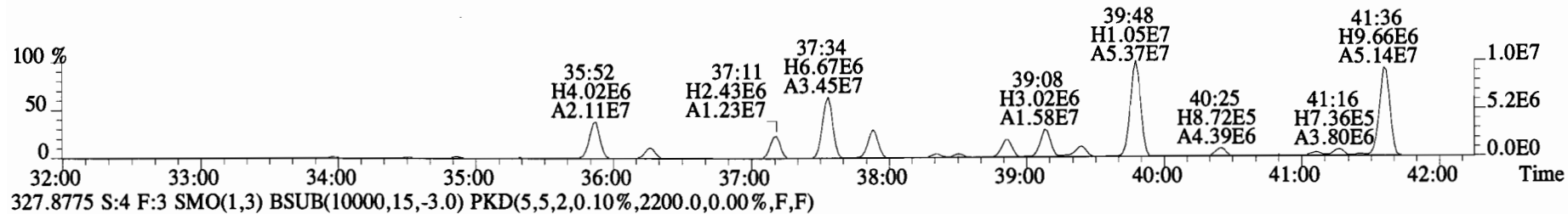
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3912.0,0.00%,F,F)



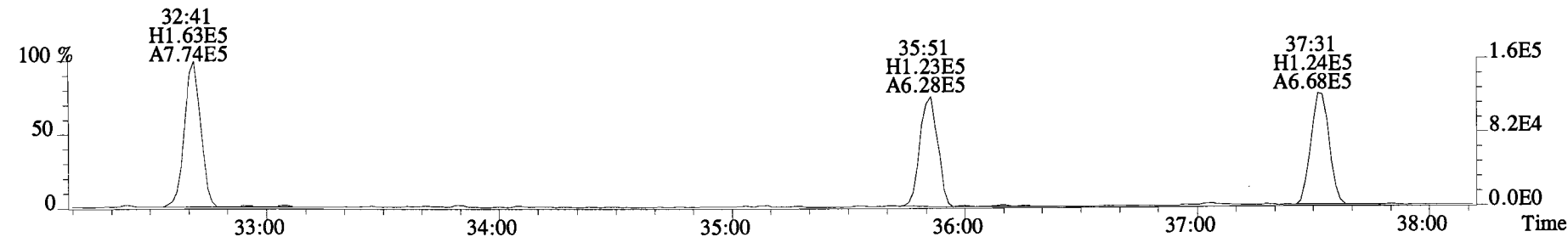
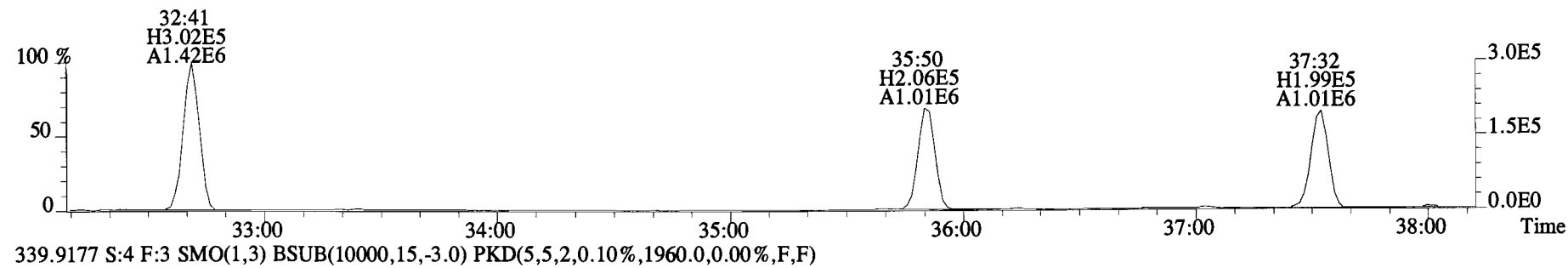
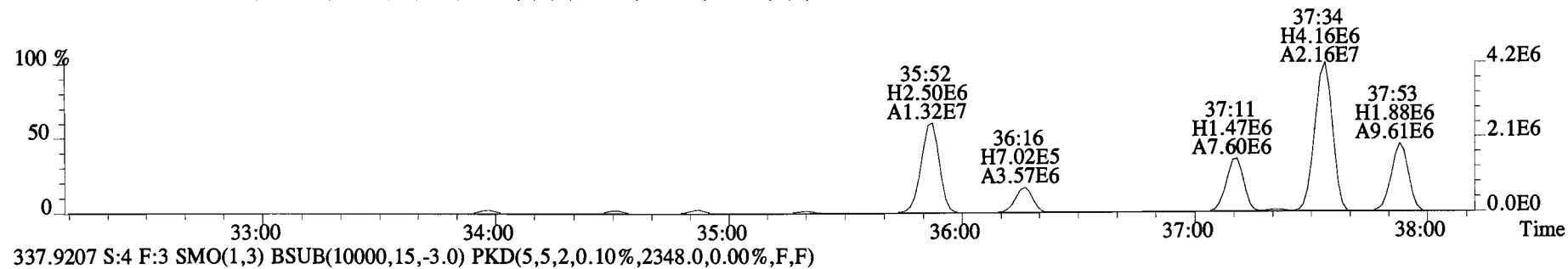
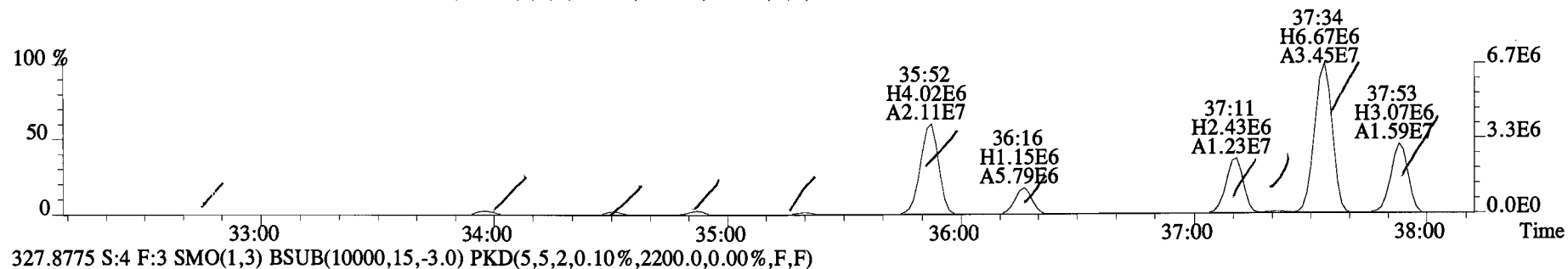
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,16592.0,0.00%,F,F)



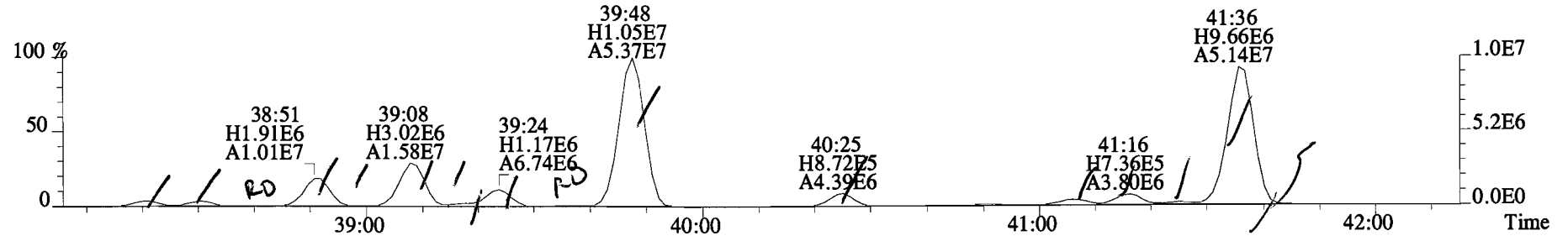
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



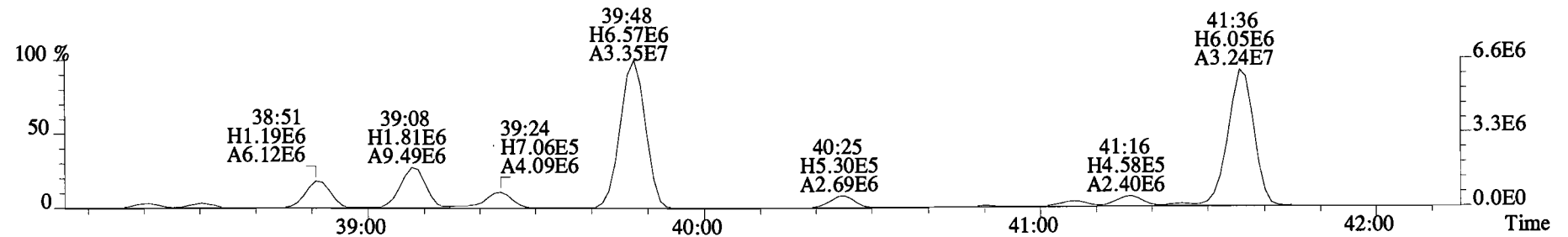
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



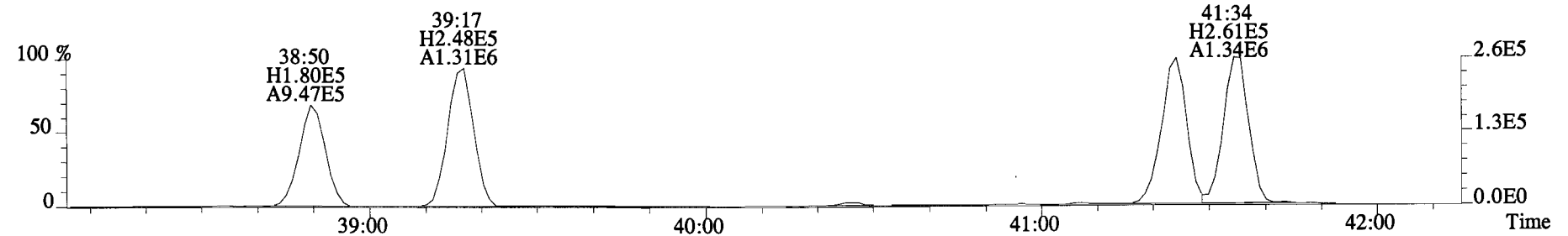
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



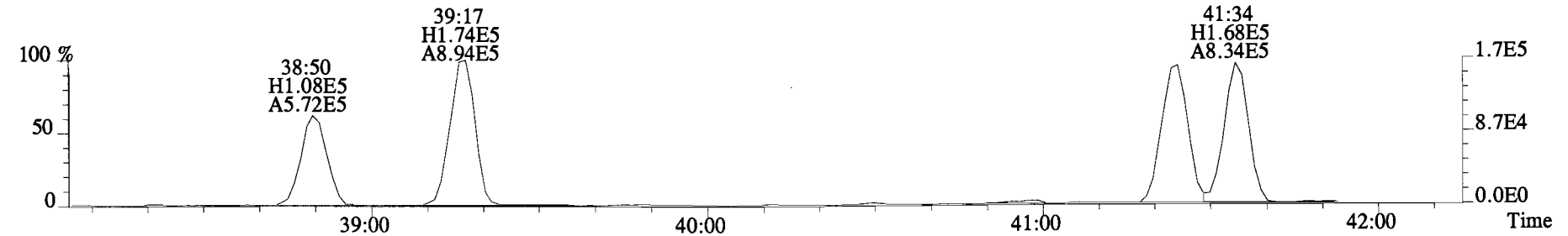
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2200.0,0.00%,F,F)



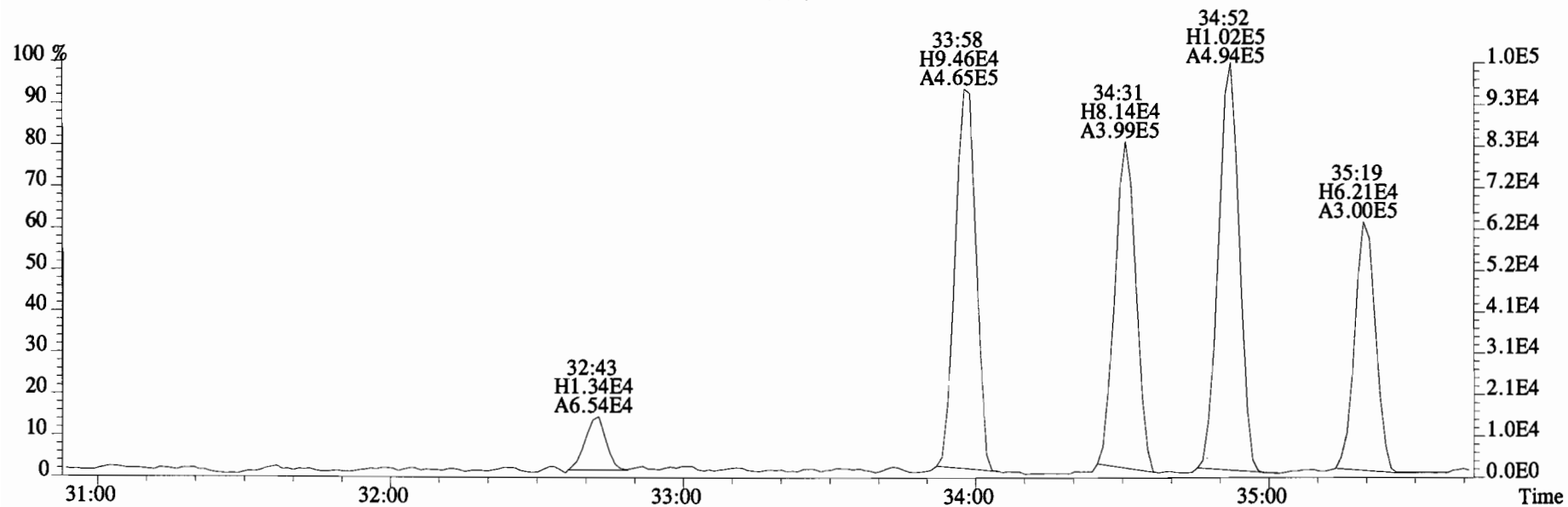
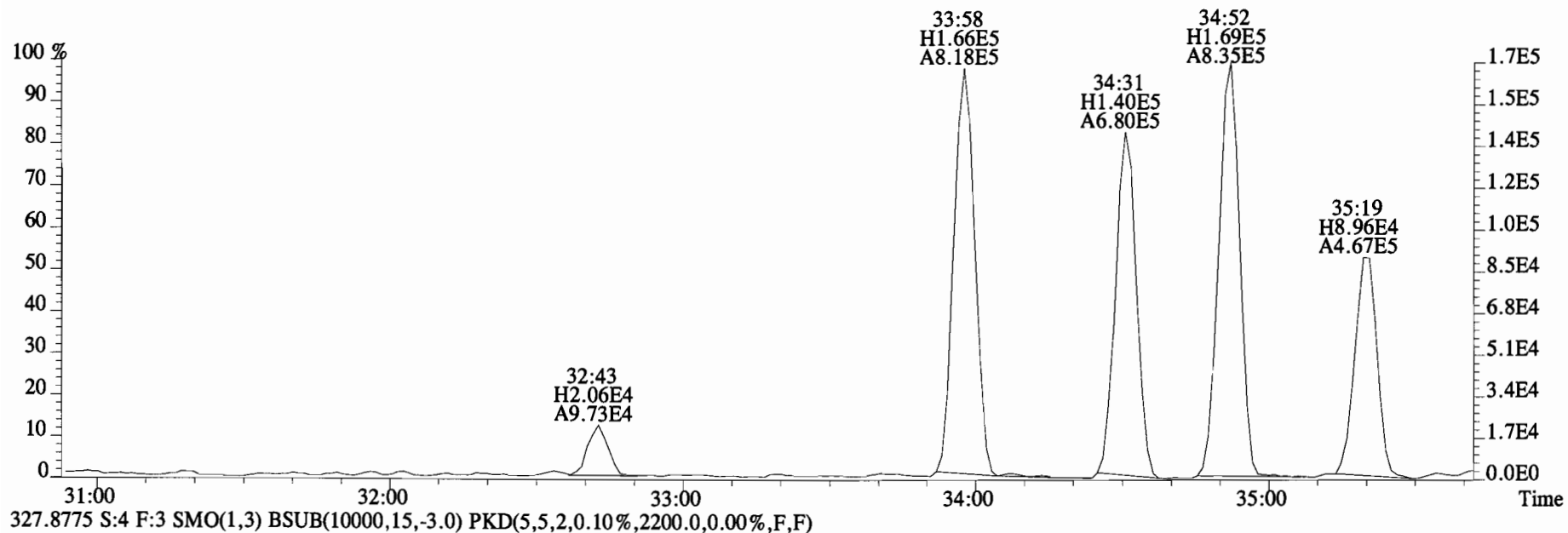
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2348.0,0.00%,F,F)



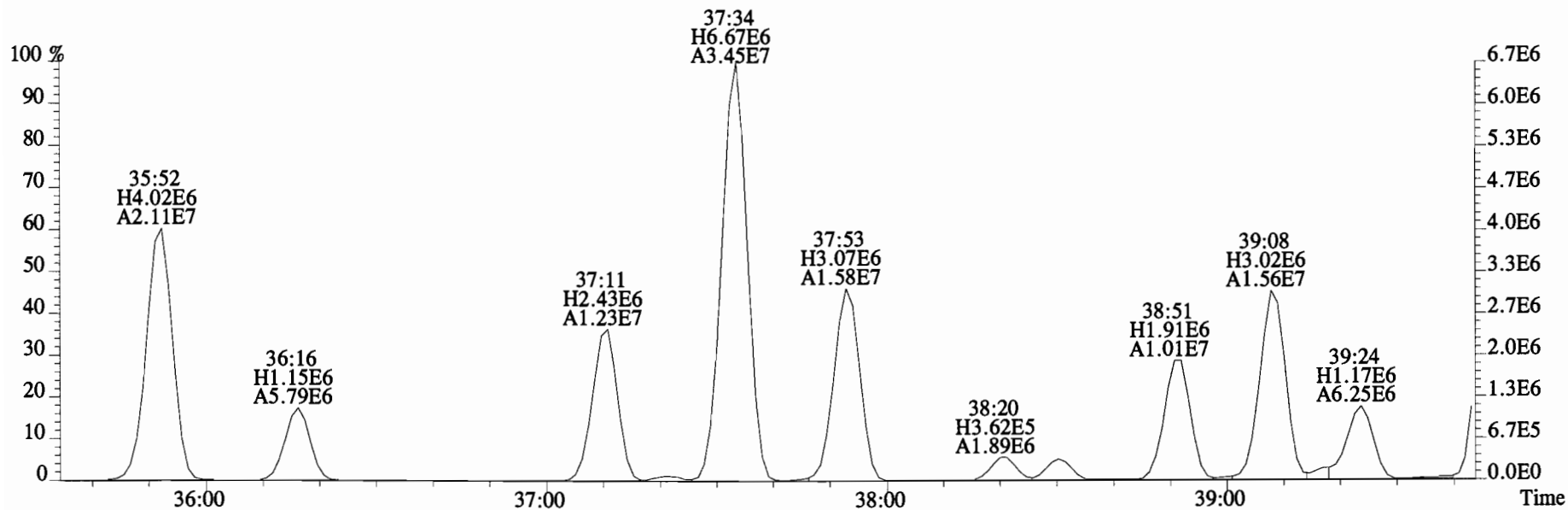
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1960.0,0.00%,F,F)



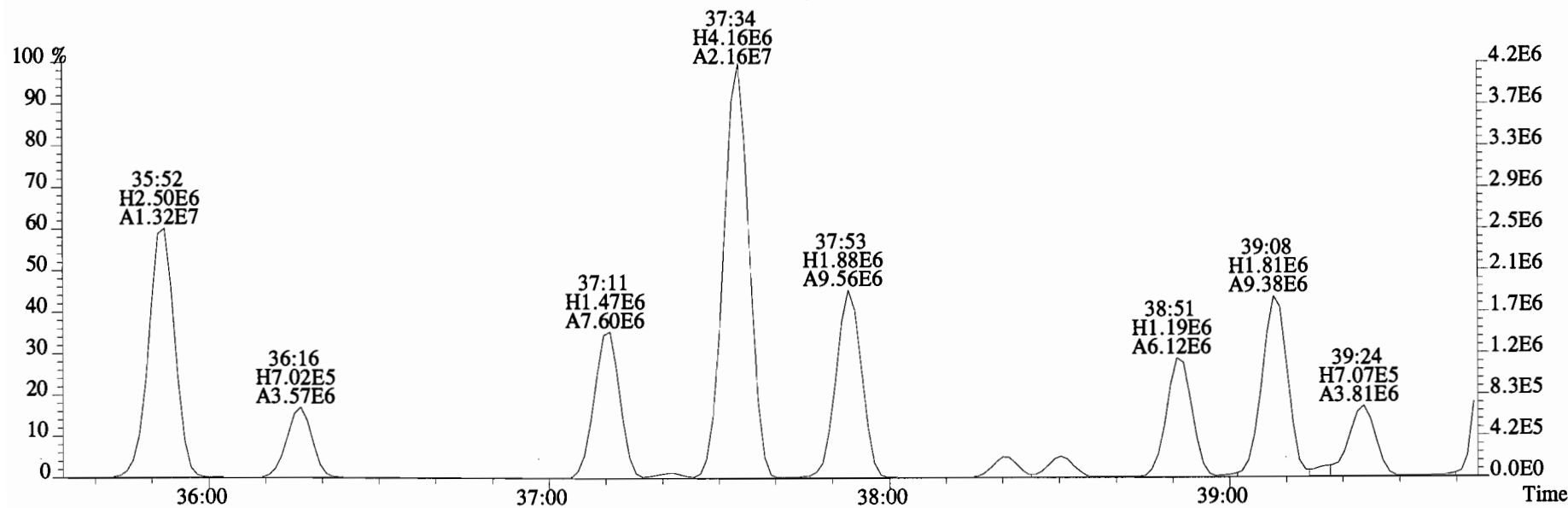
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



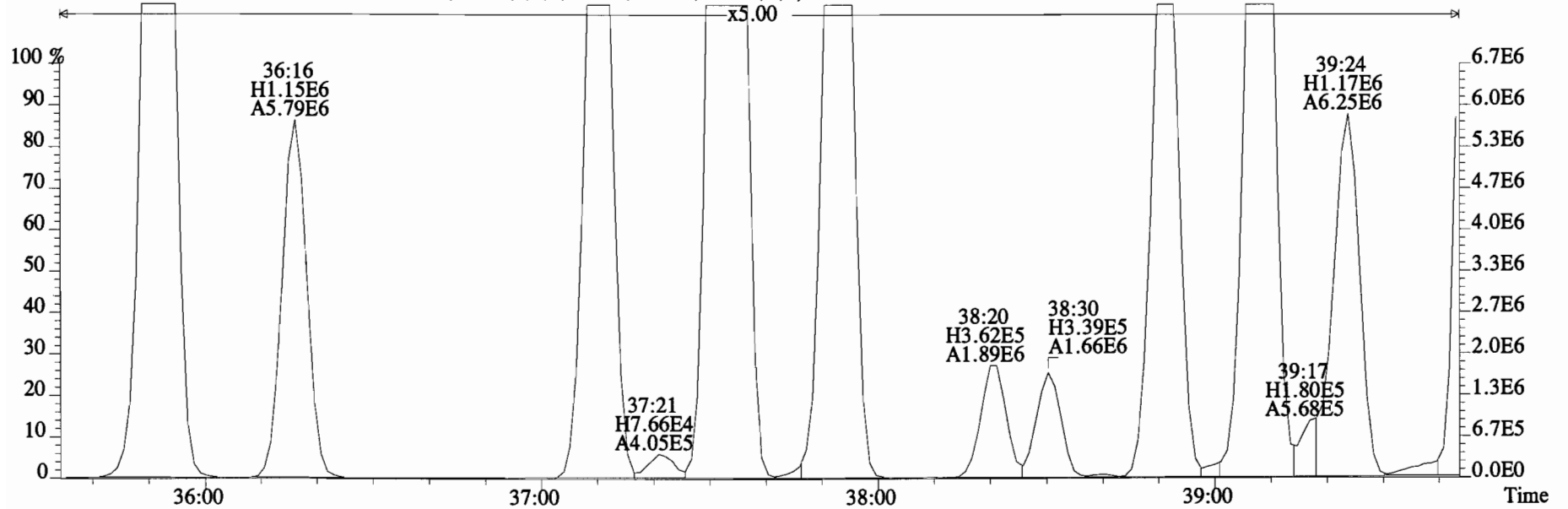
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



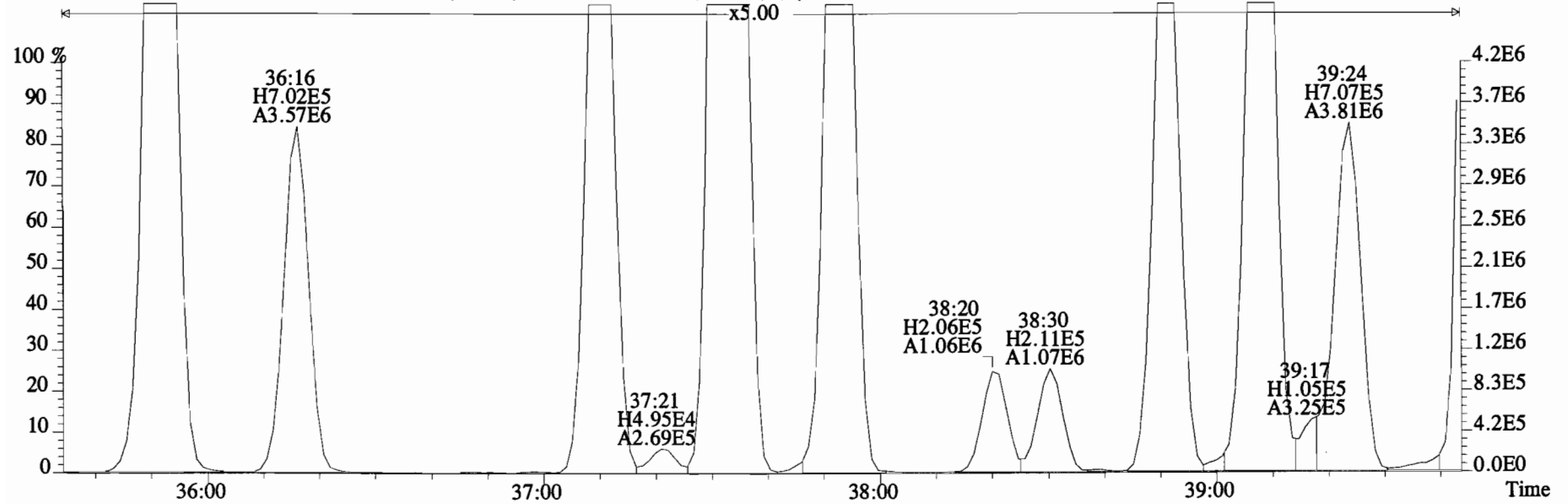
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2200.0,0.00%,F,F)



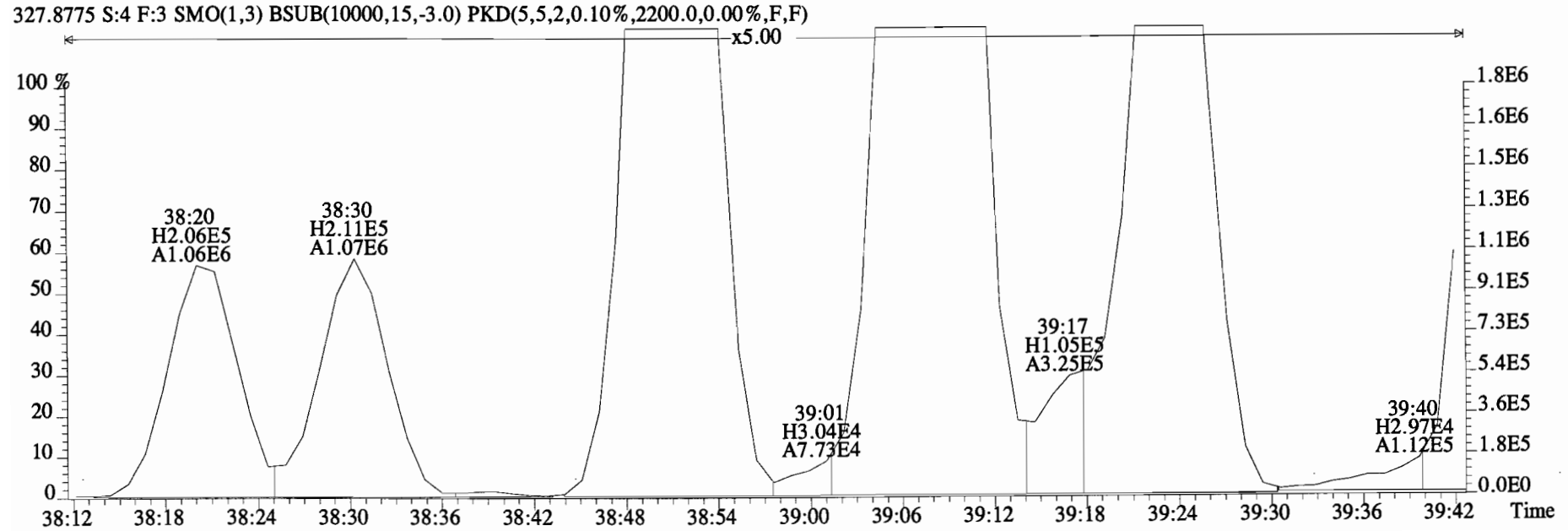
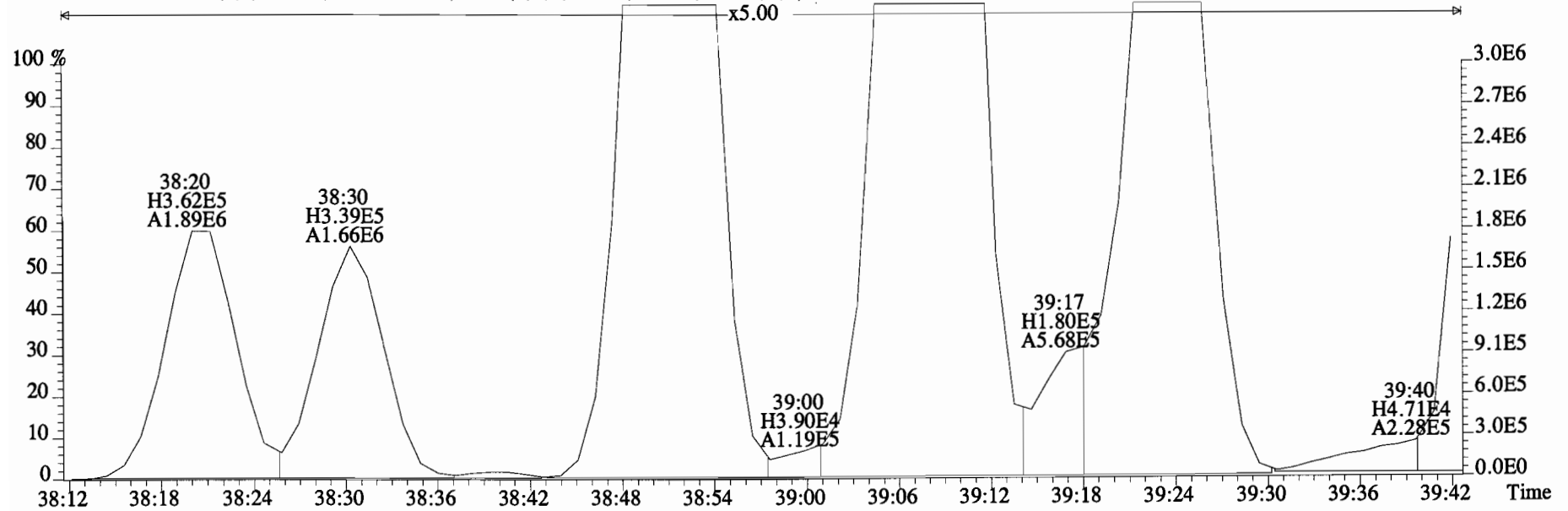
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



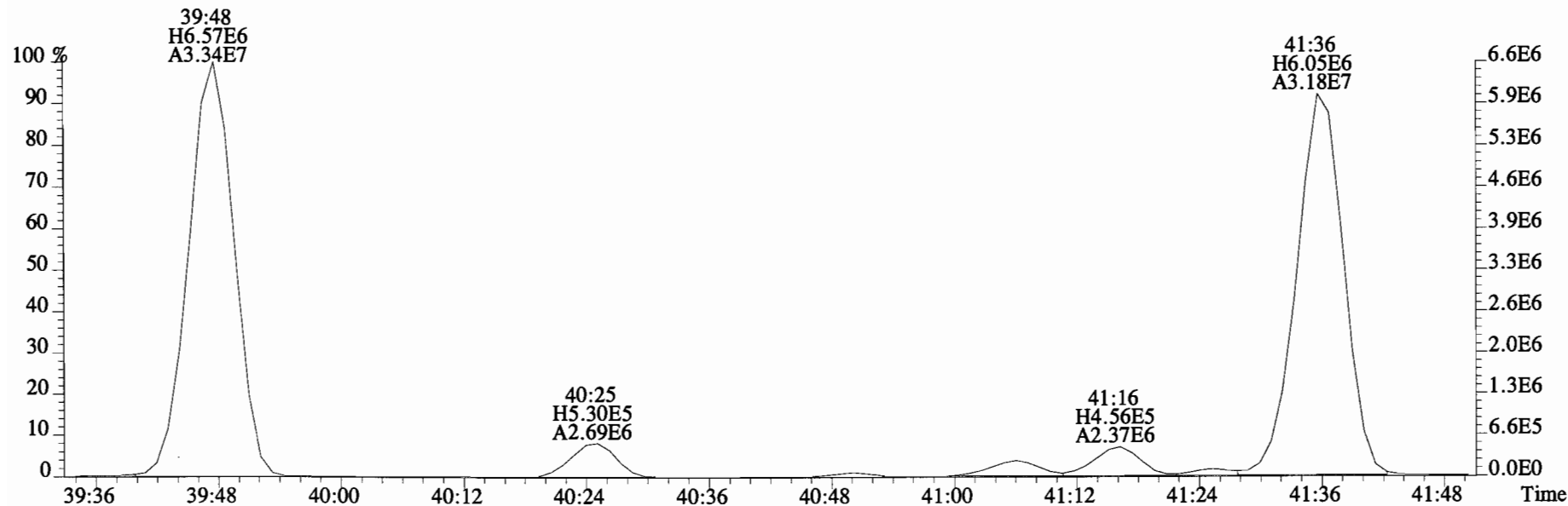
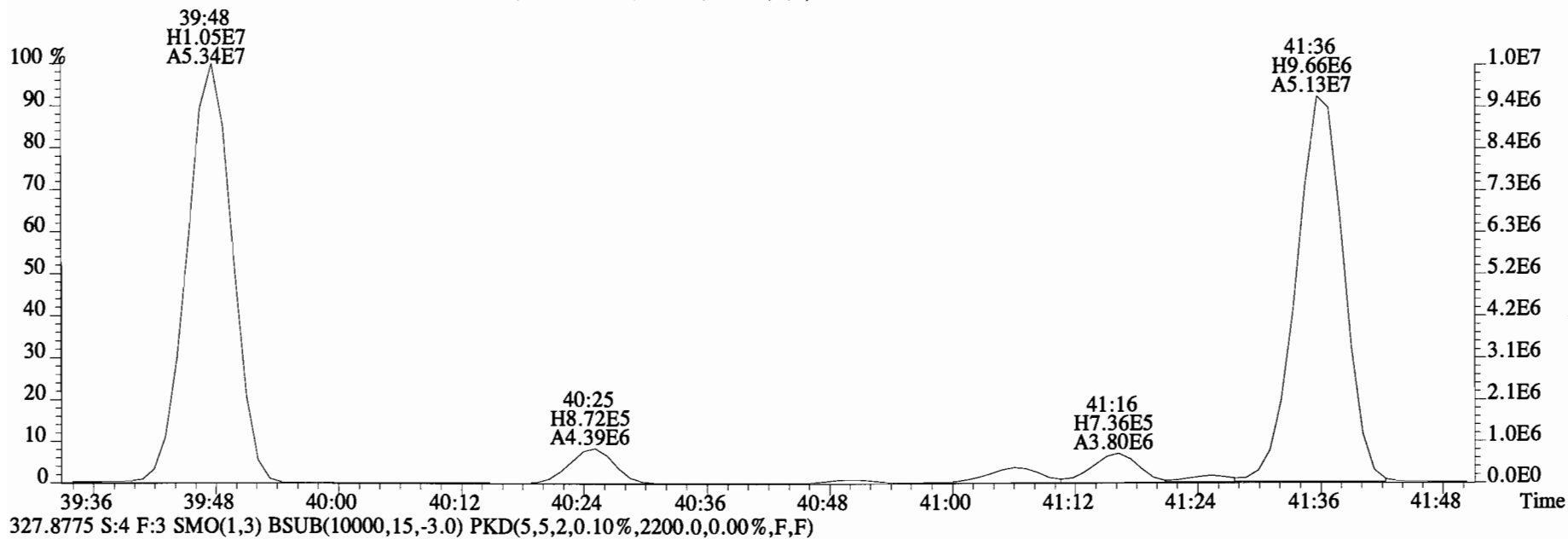
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2200.0,0.00%,F,F)



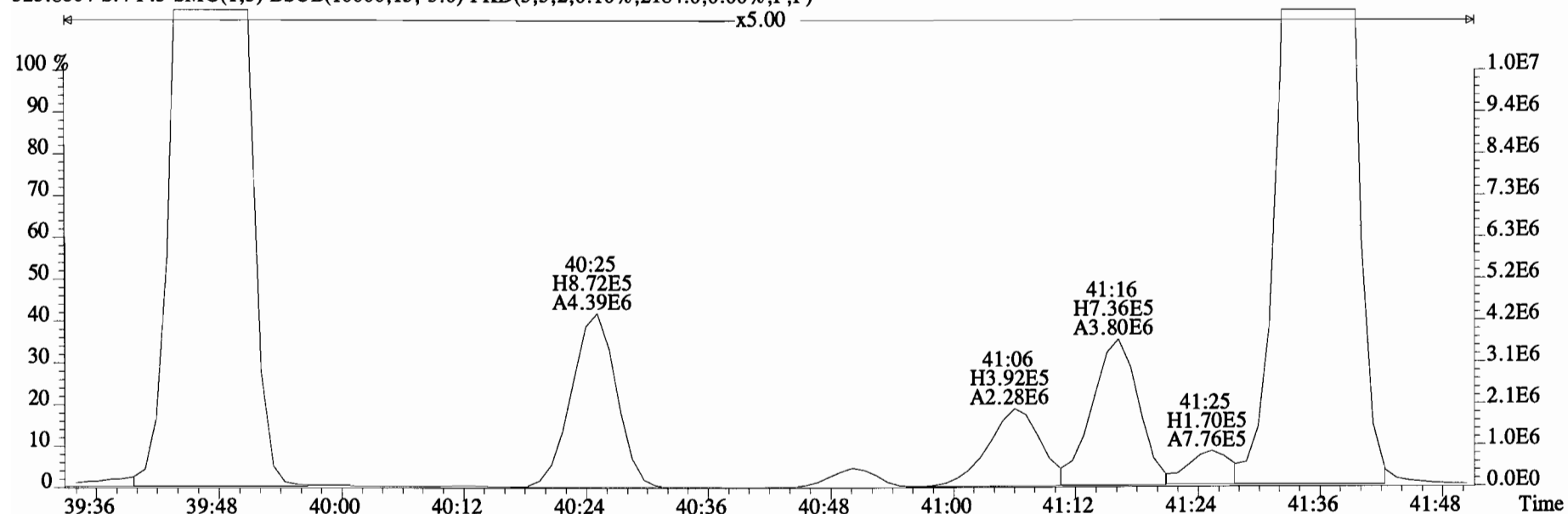
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



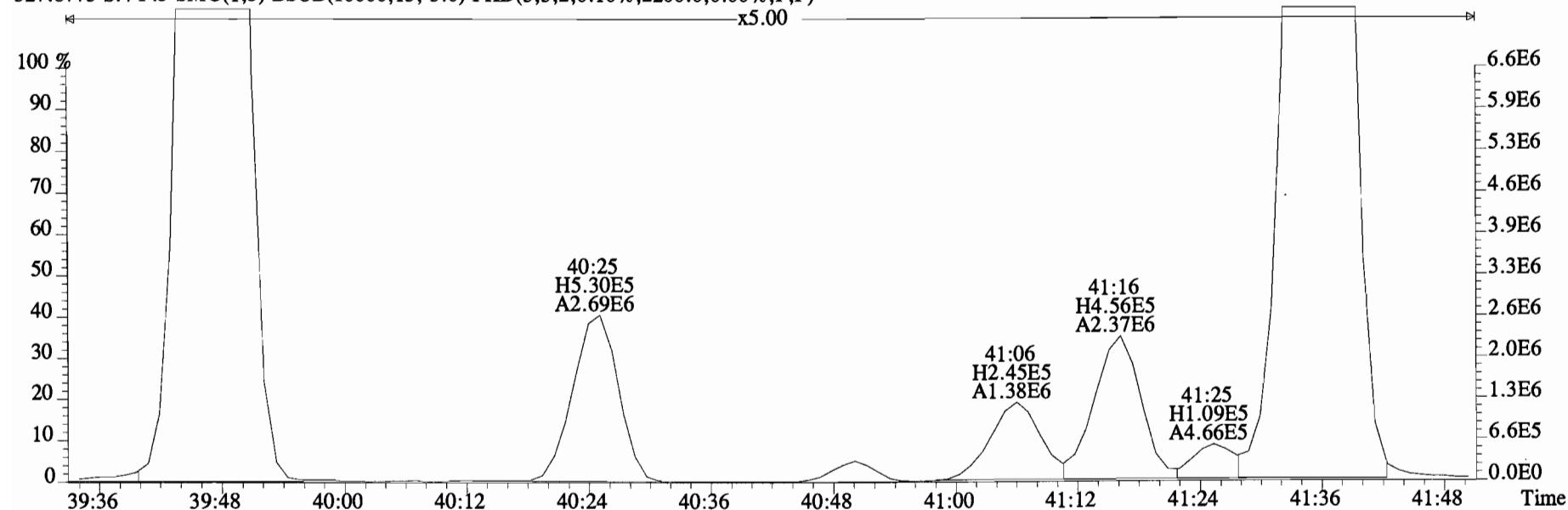
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



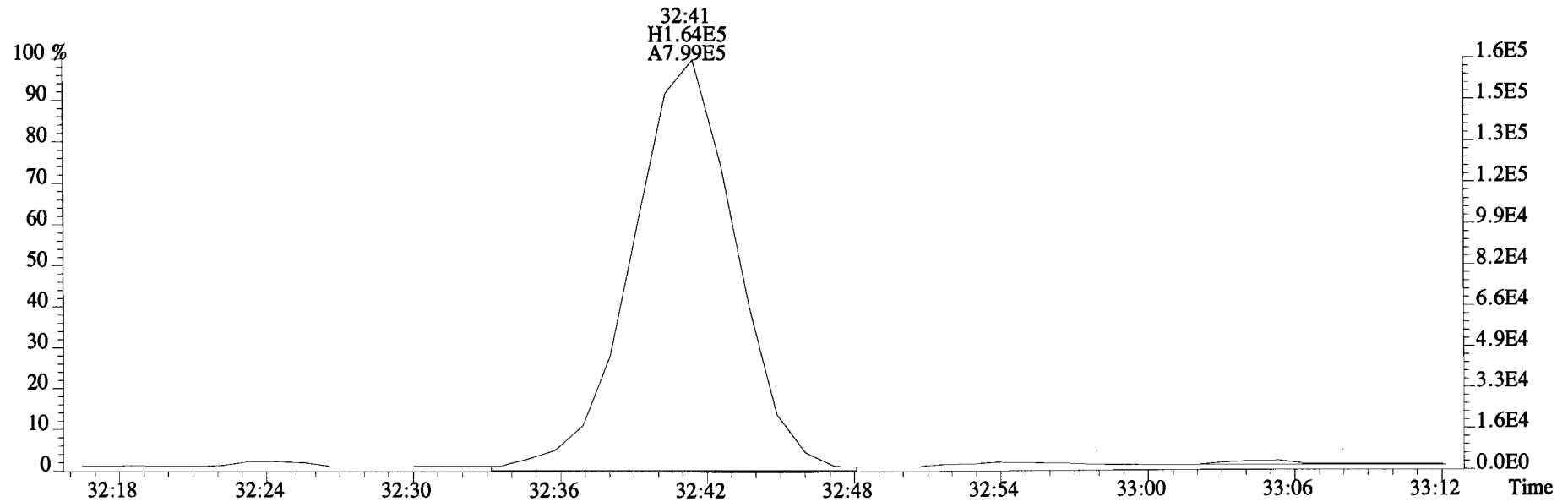
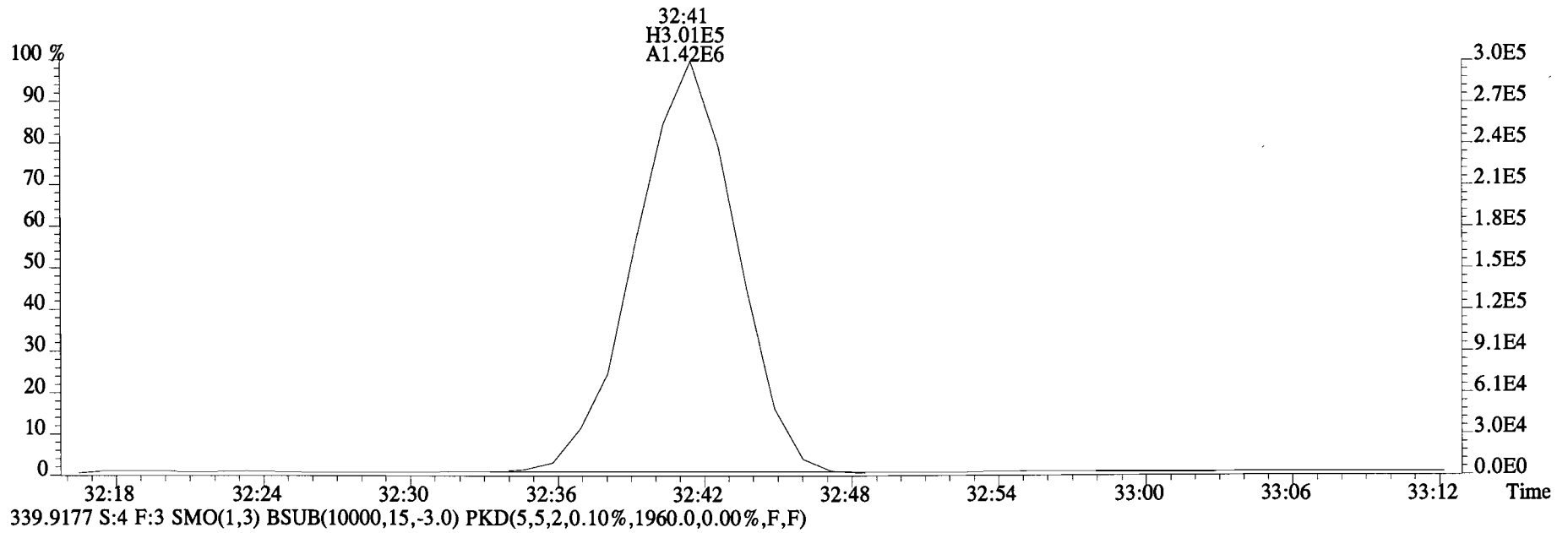
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2184.0,0.00%,F,F)



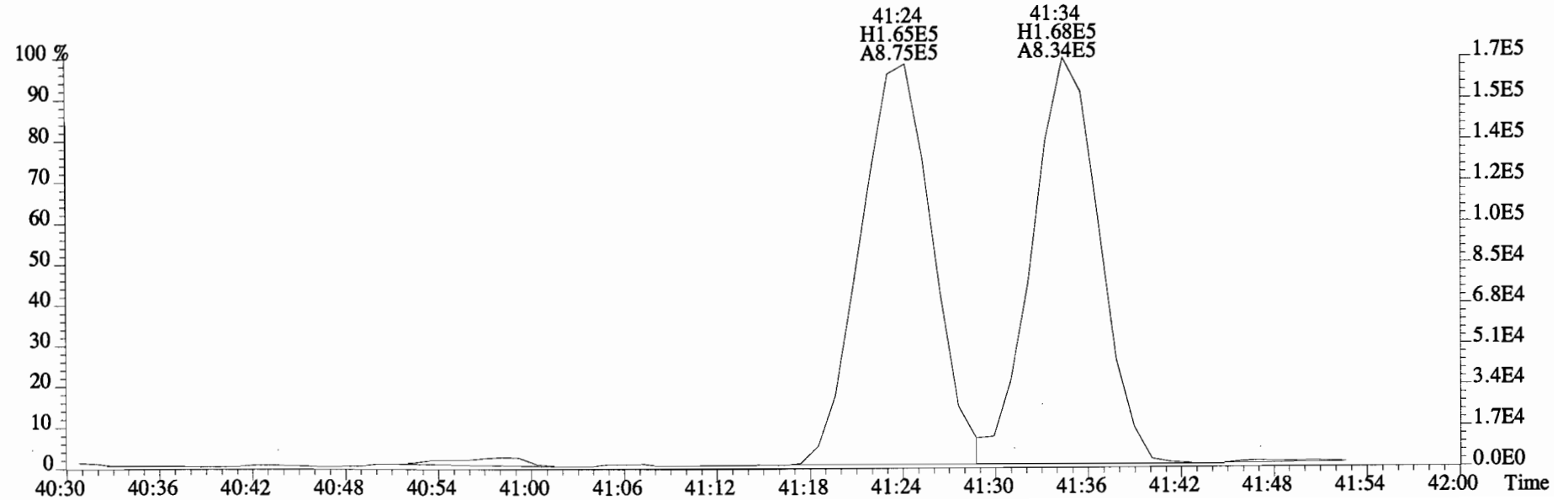
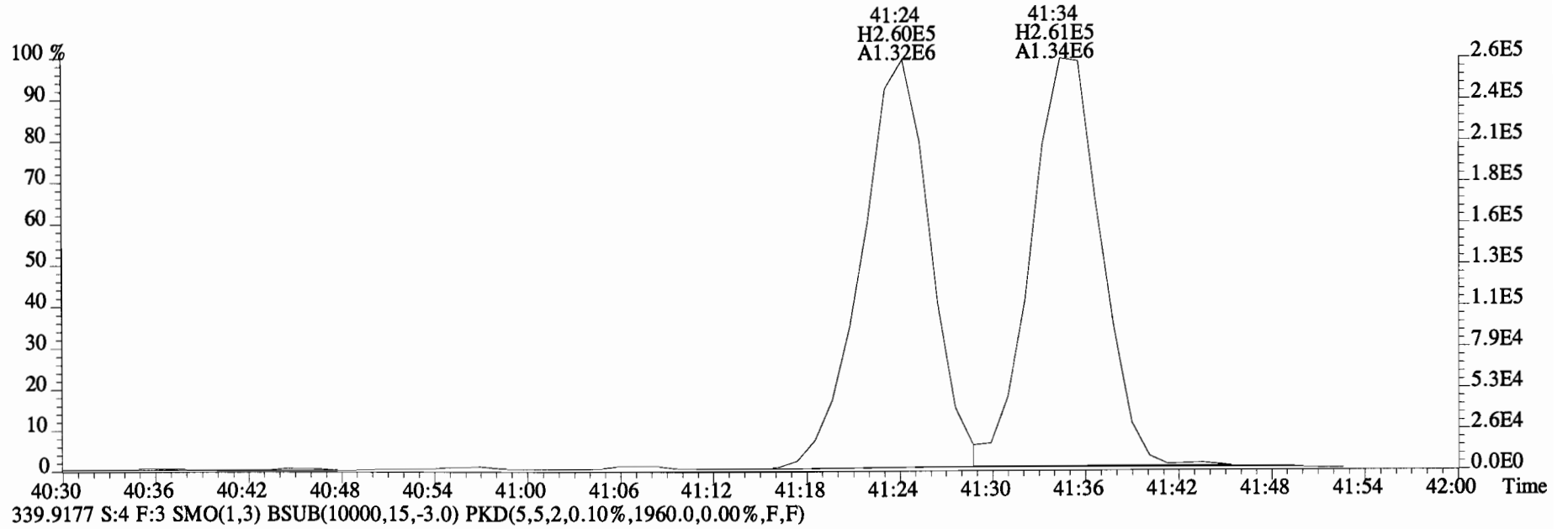
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2200.0,0.00%,F,F)



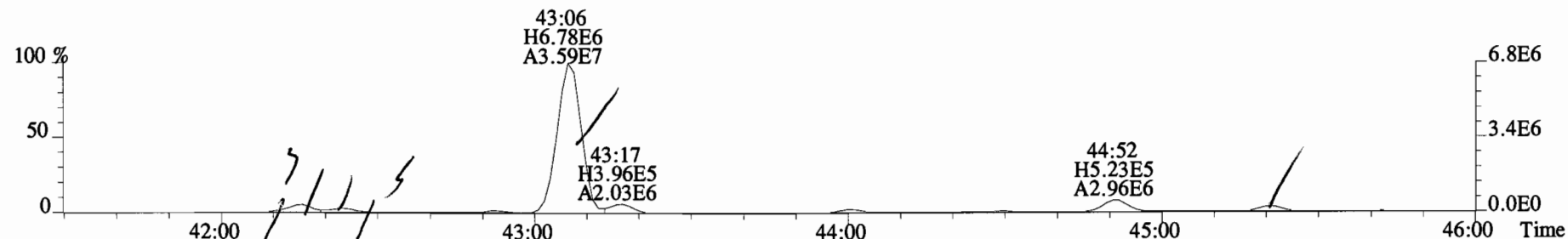
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2348.0,0.00%,F,F)



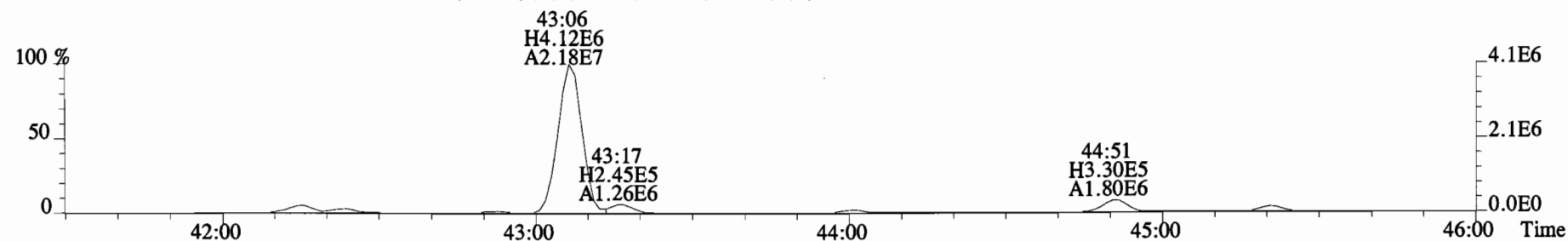
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2348.0,0.00%,F,F)



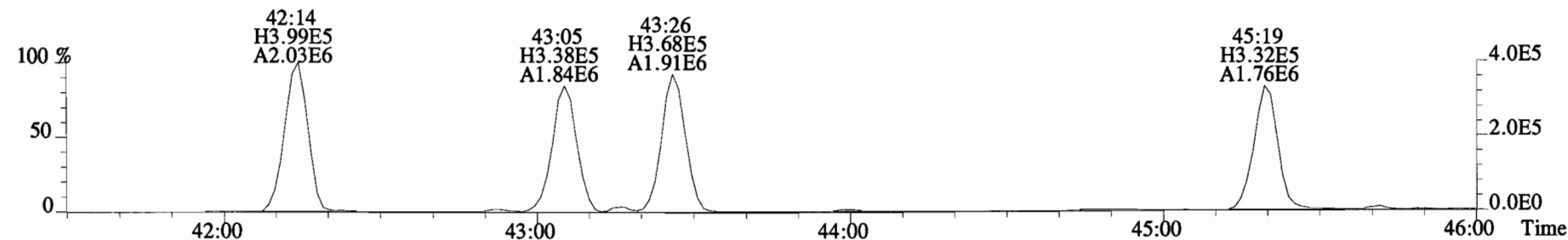
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5668.0,0.00%,F,F)



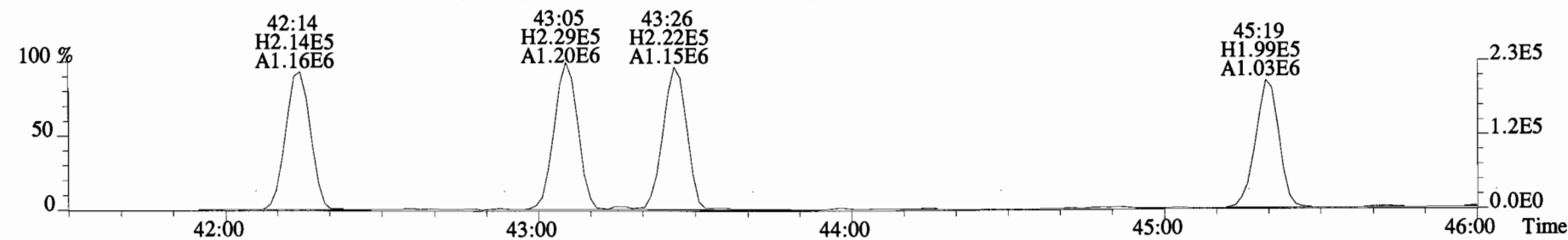
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3500.0,0.00%,F,F)



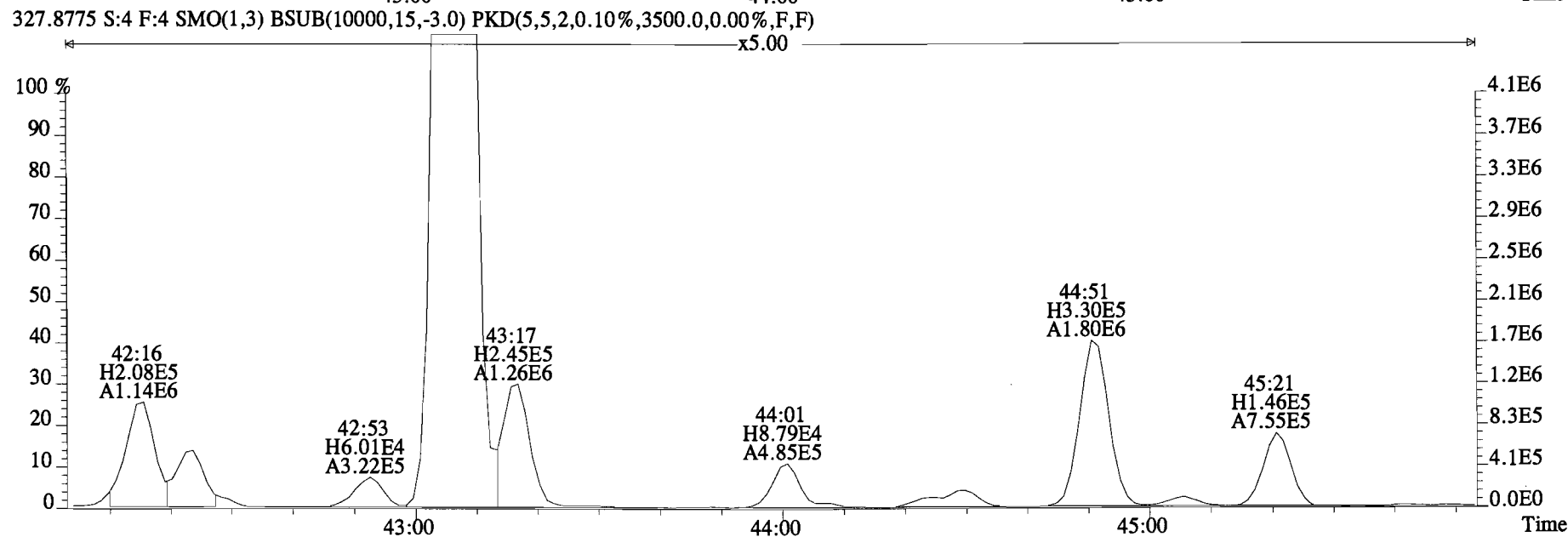
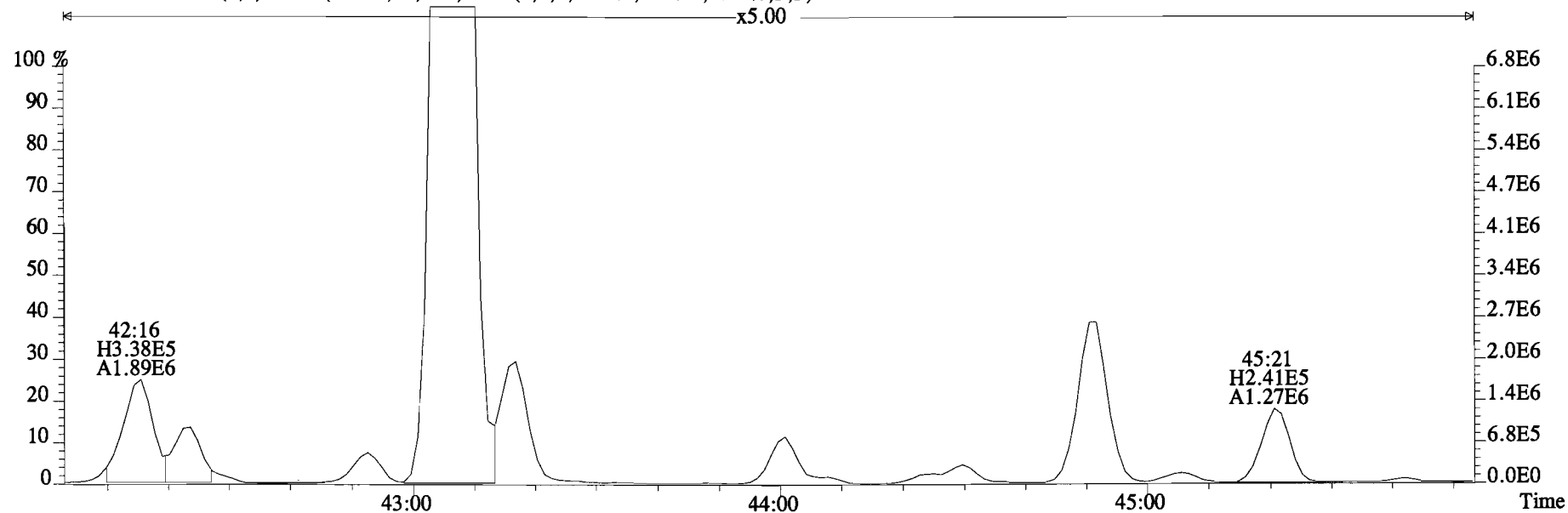
337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1640.0,0.00%,F,F)



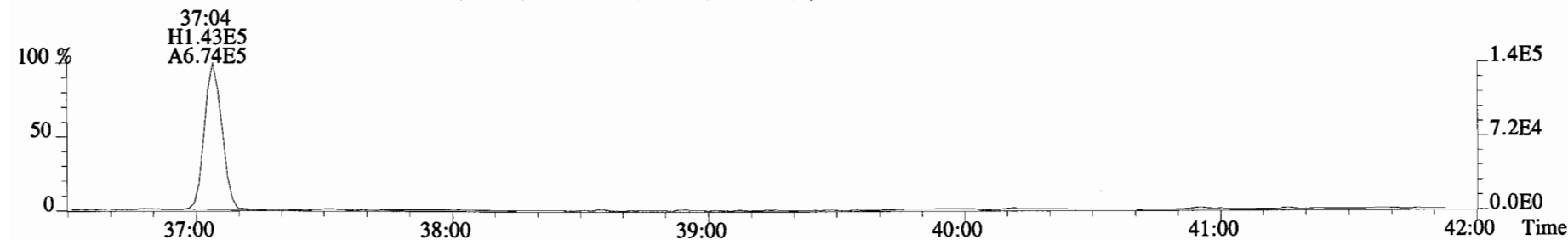
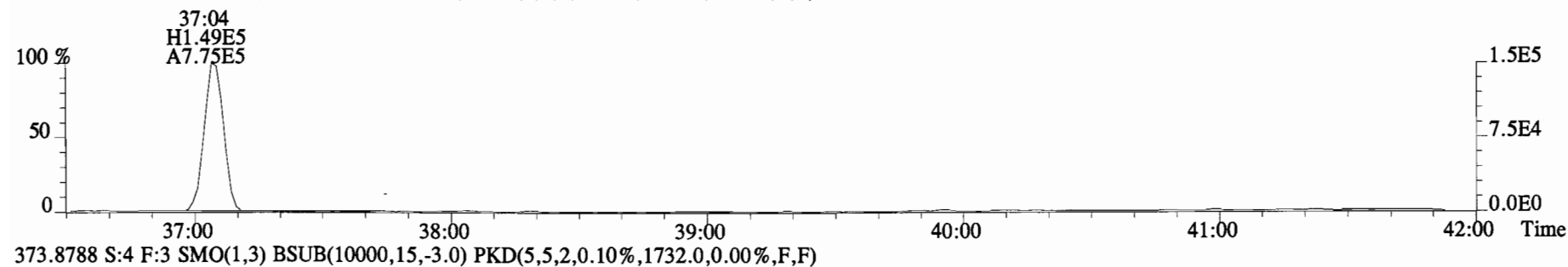
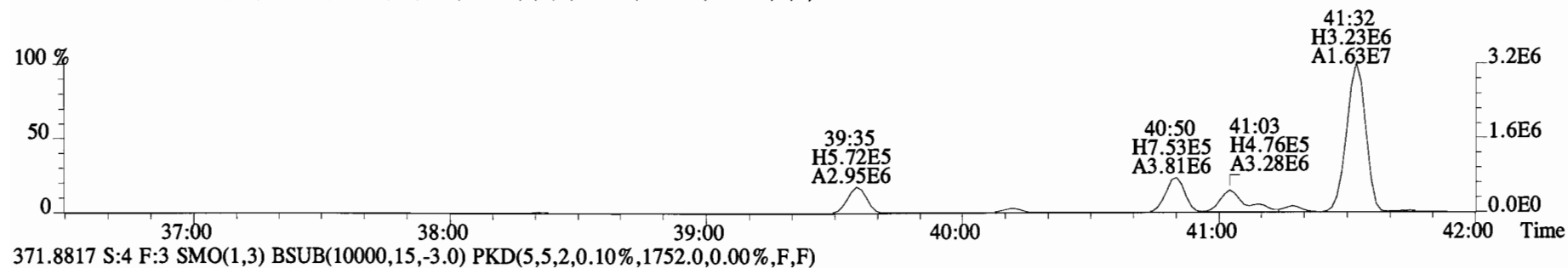
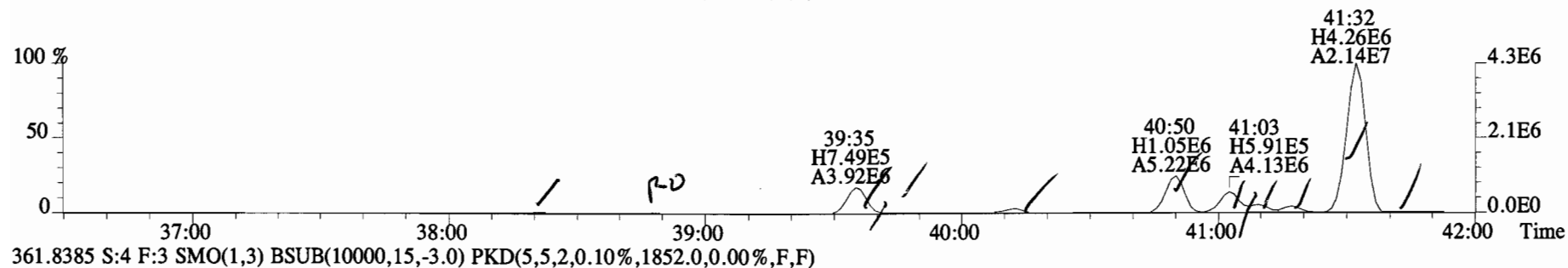
339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2148.0,0.00%,F,F)



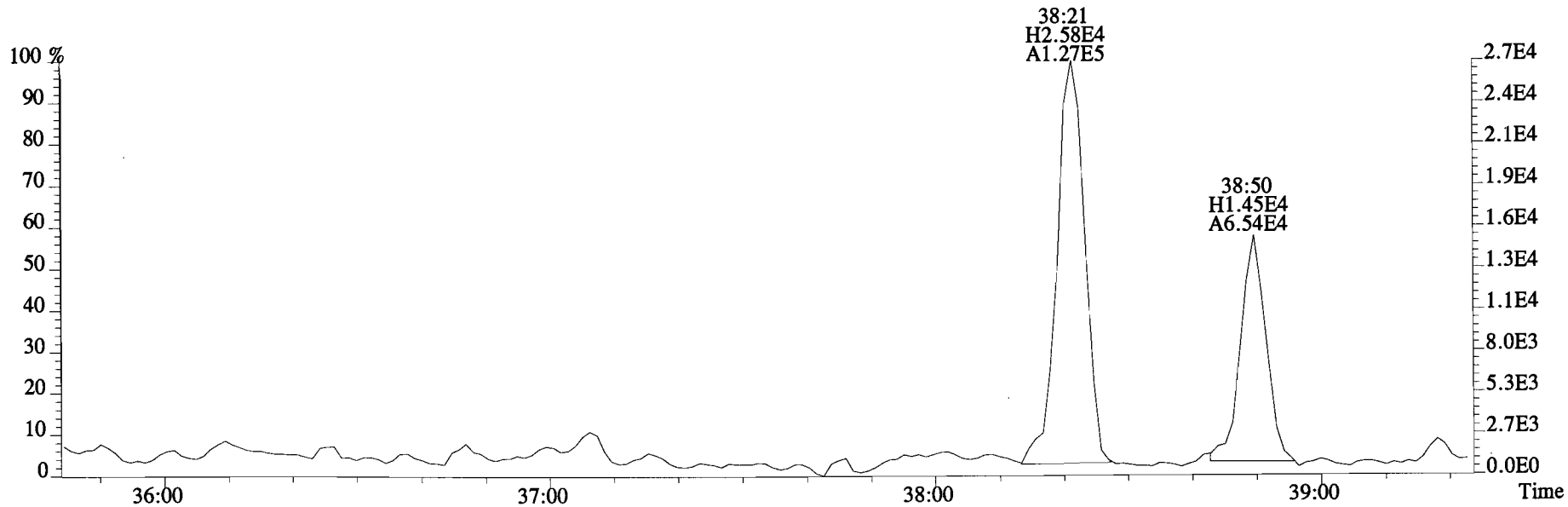
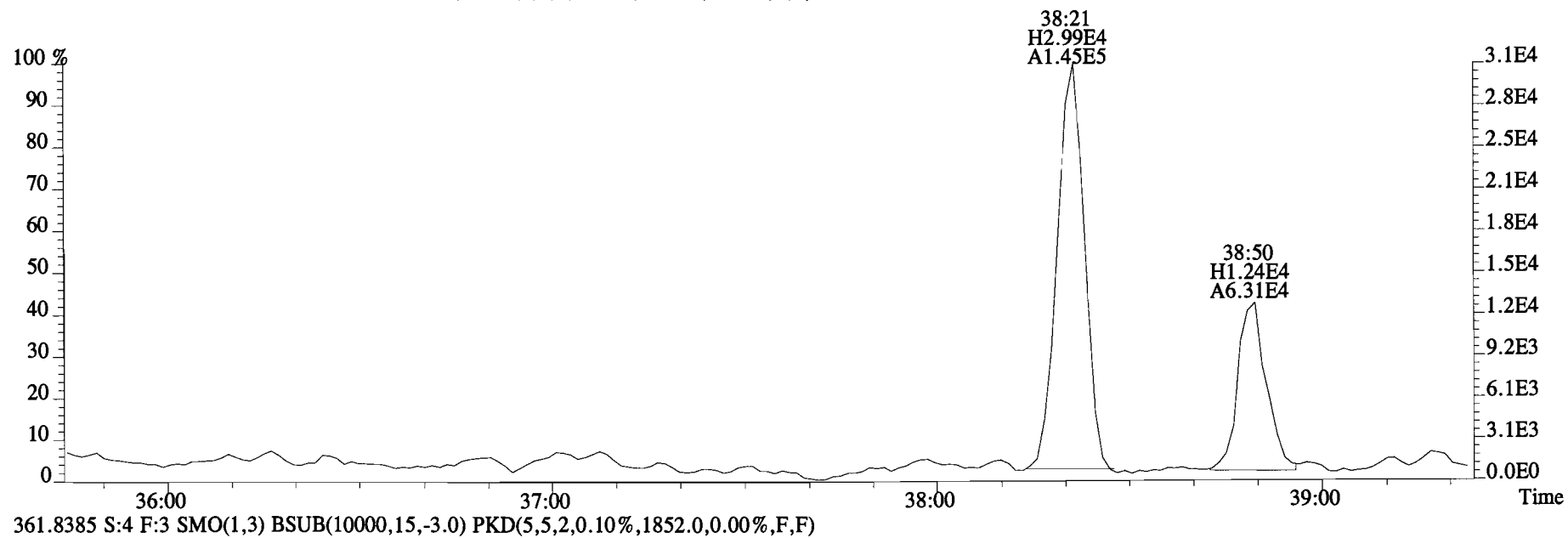
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5668.0,0.00%,F,F)



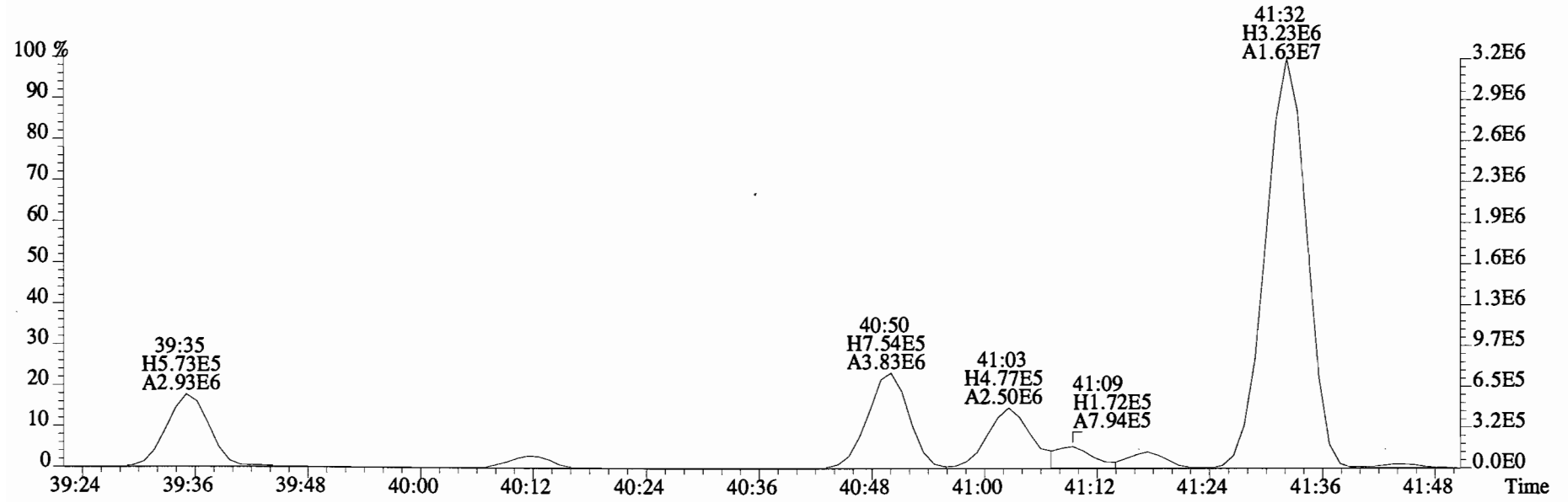
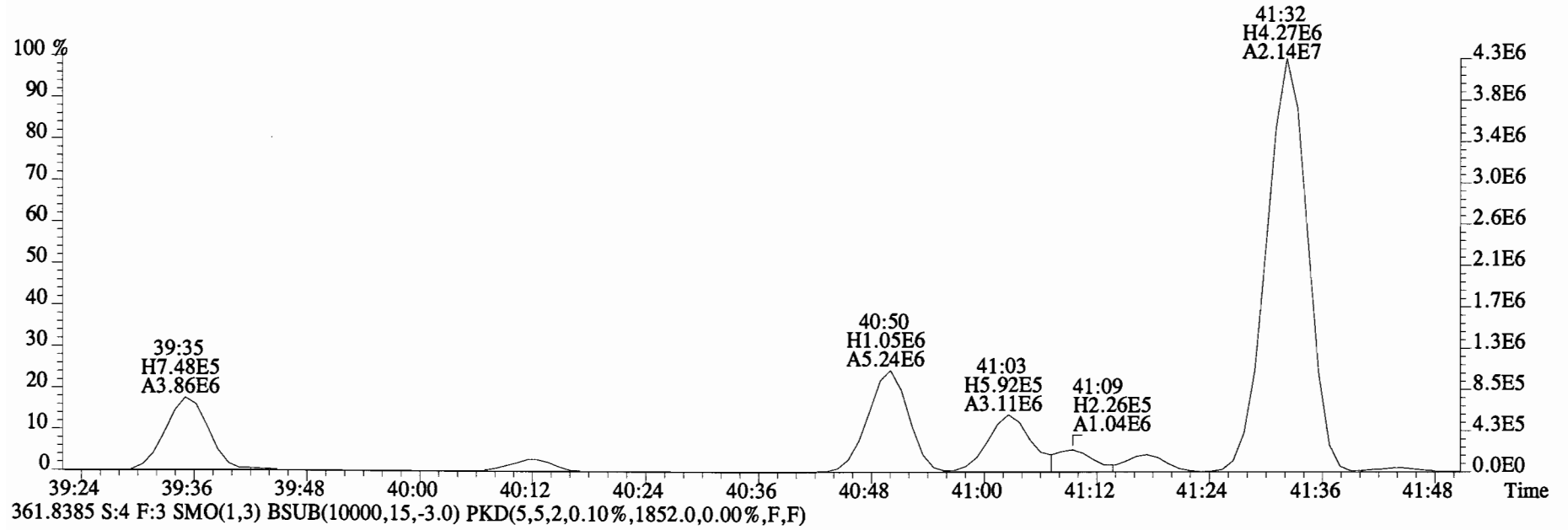
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1968.0,0.00%,F,F)



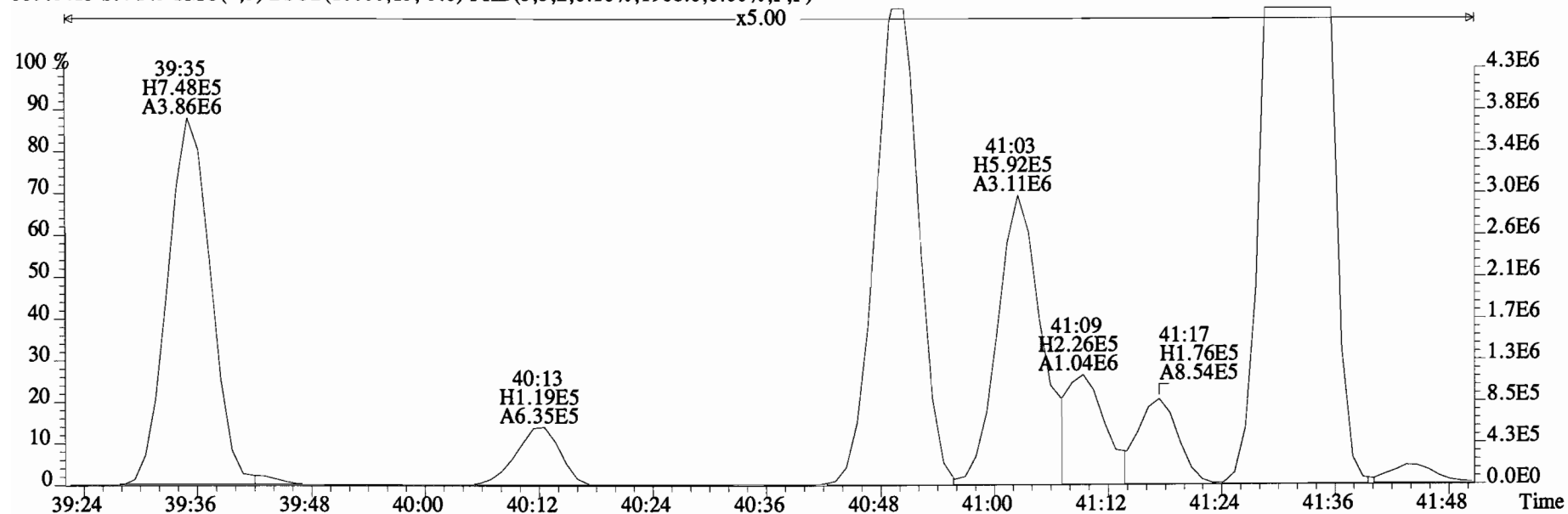
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1968.0,0.00%,F,F)



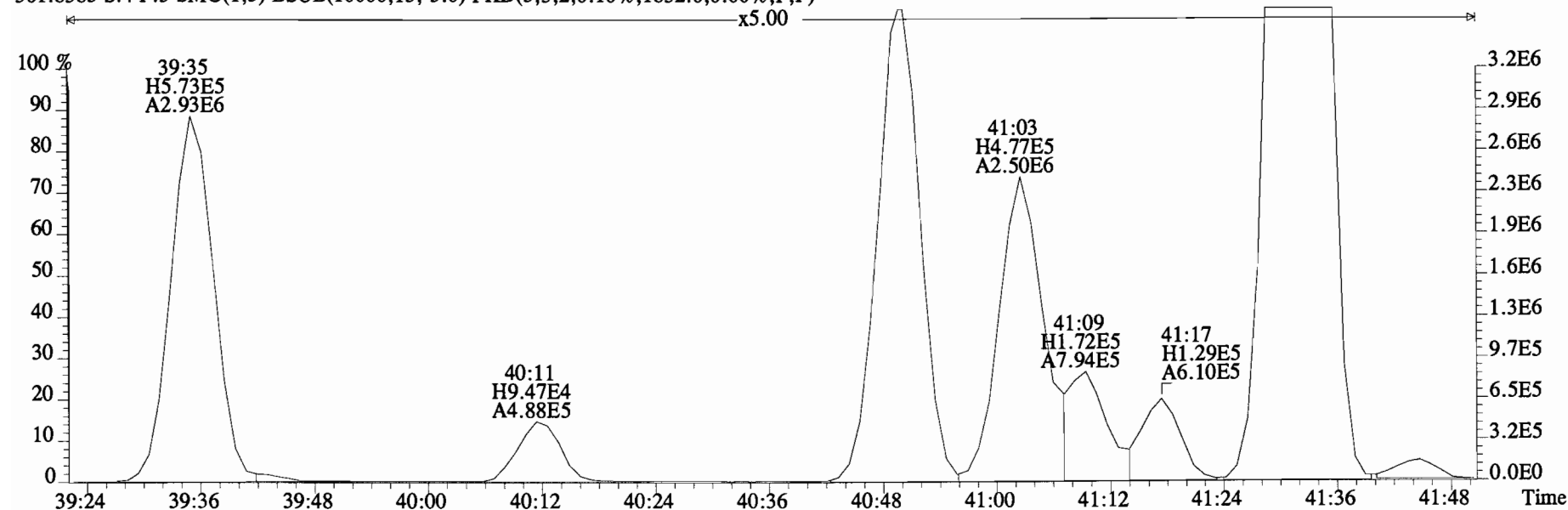
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1968.0,0.00%,F,F)



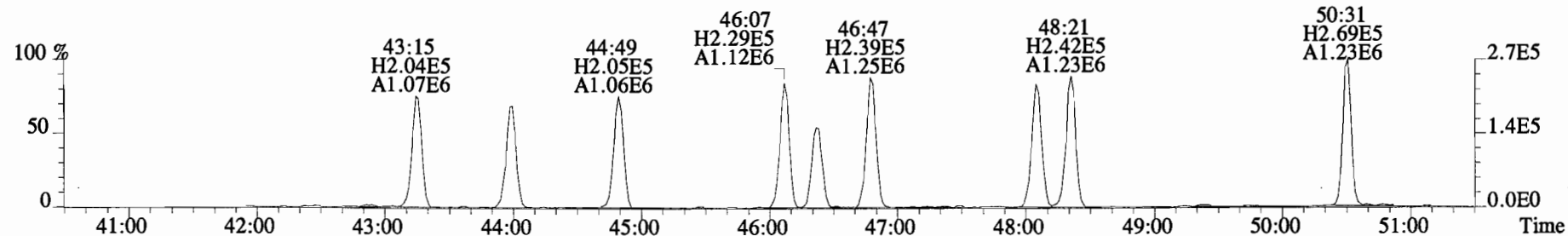
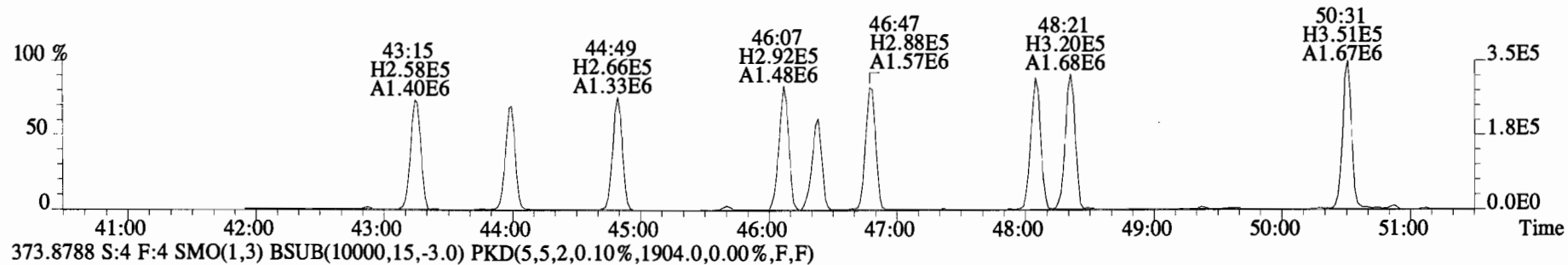
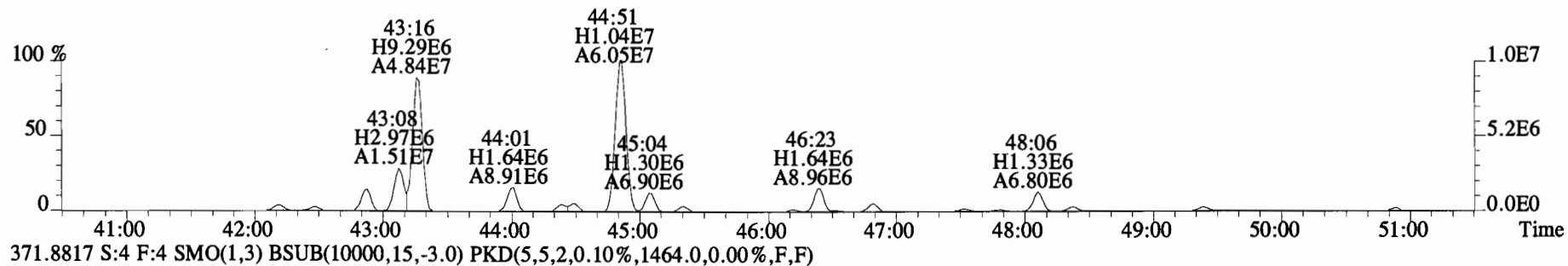
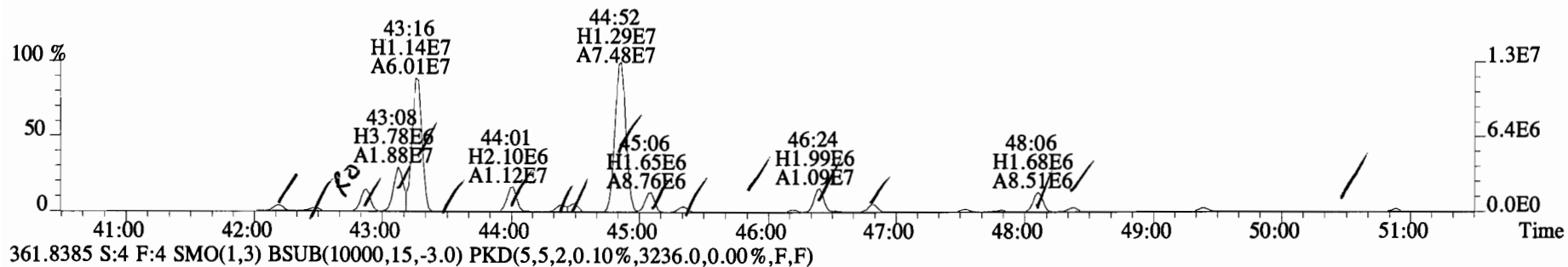
File:150319E1 #1-758 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1968.0,0.00%,F,F)



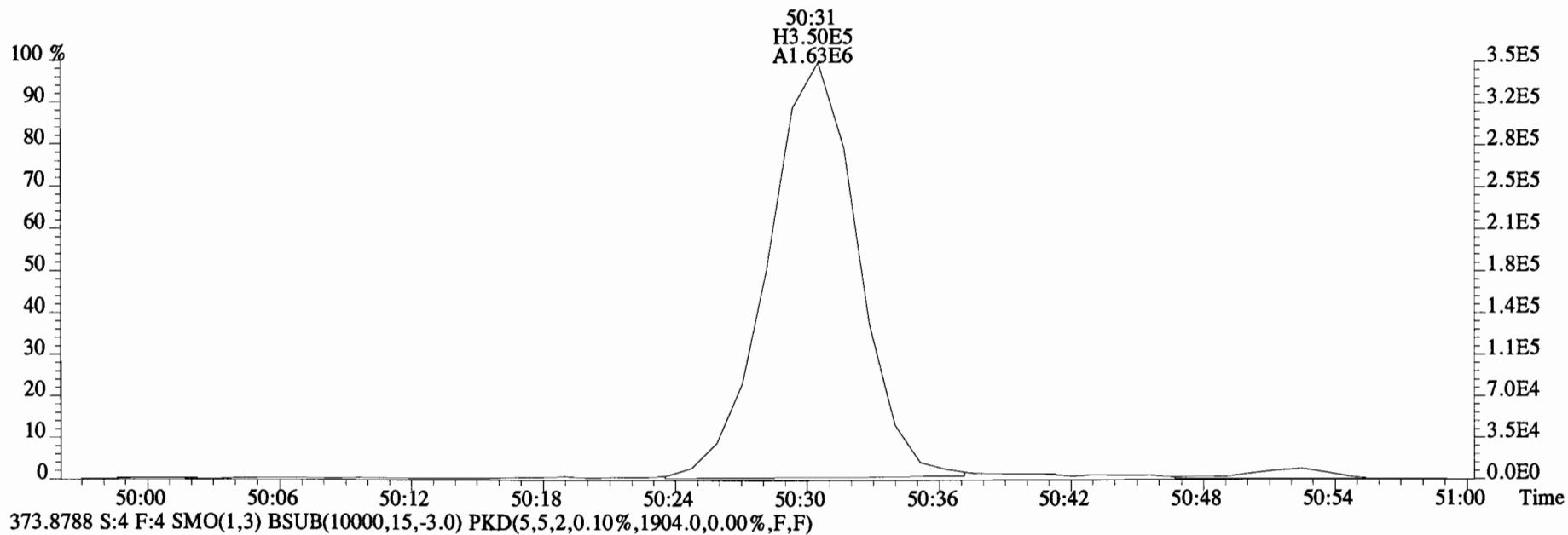
361.8385 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1852.0,0.00%,F,F)



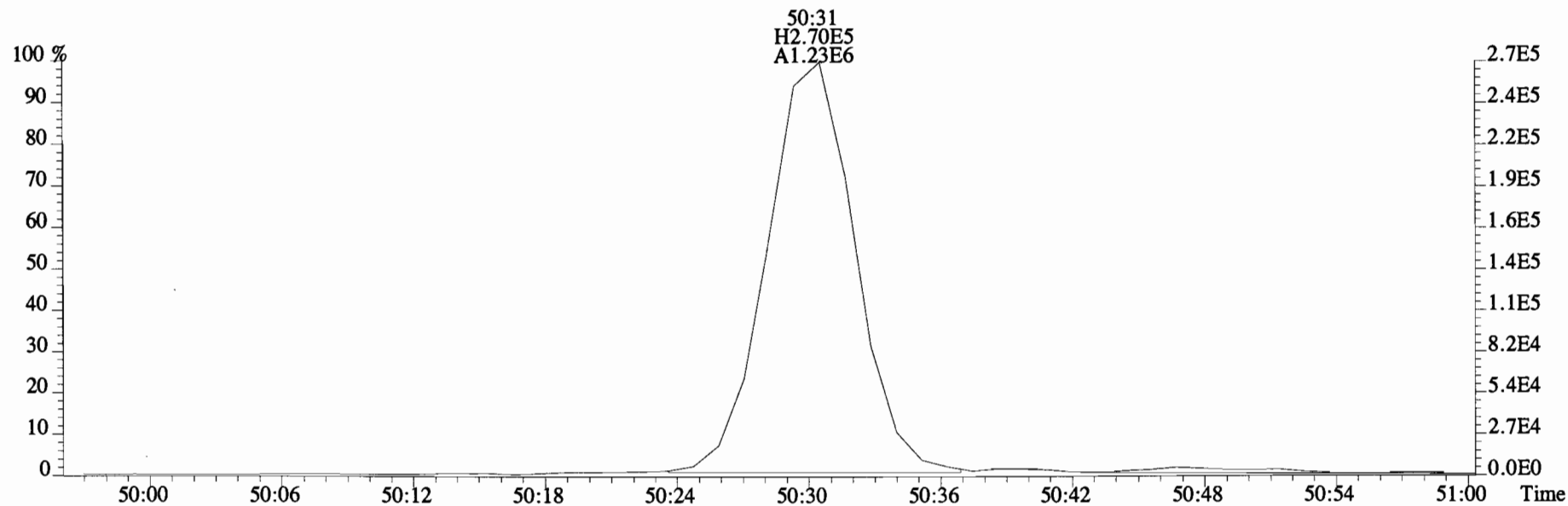
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5520.0,0.00%,F,F)



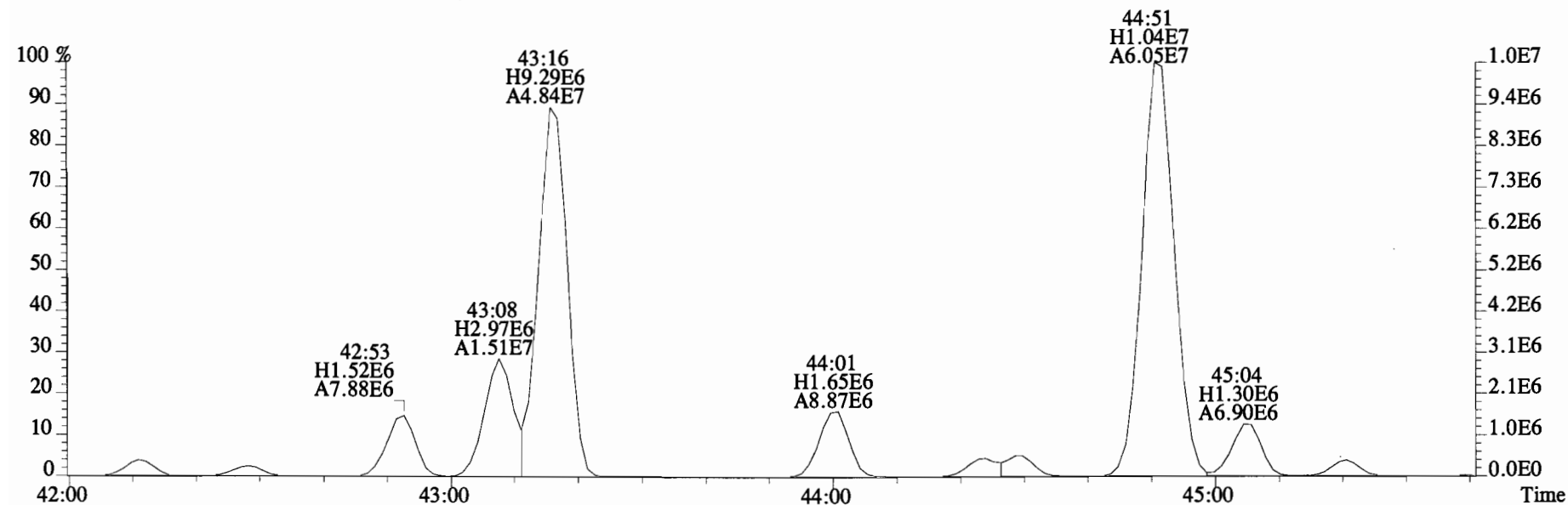
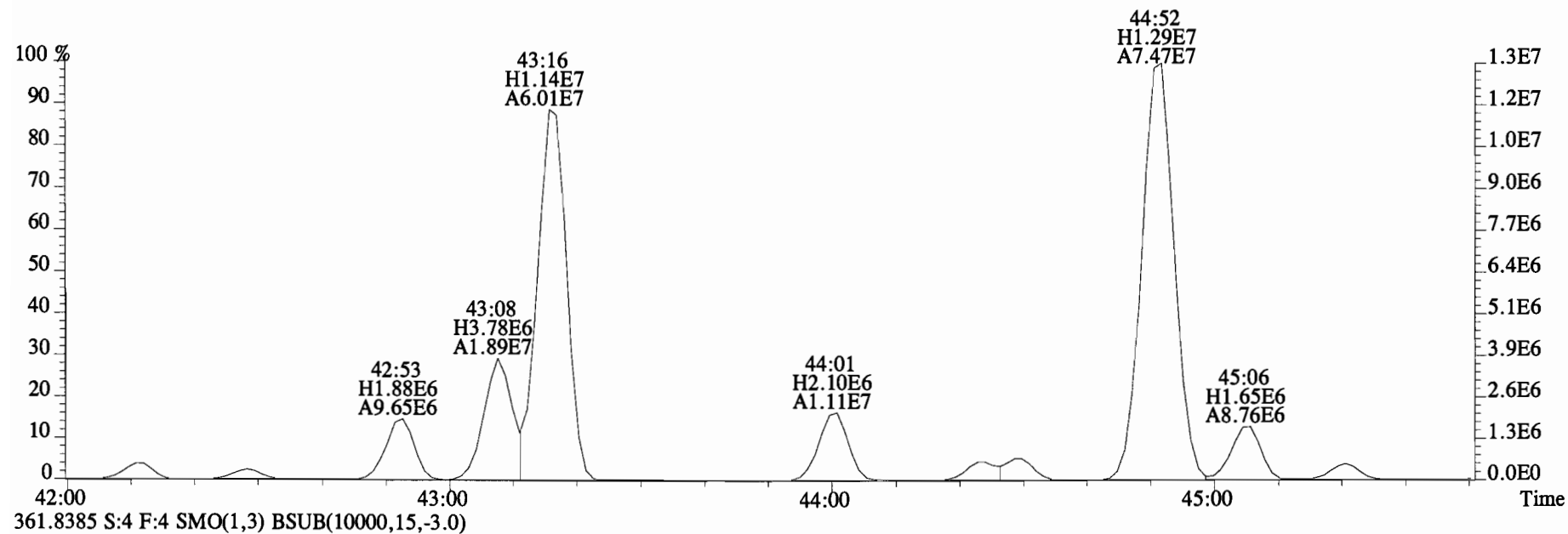
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1464.0,0.00%,F,F)



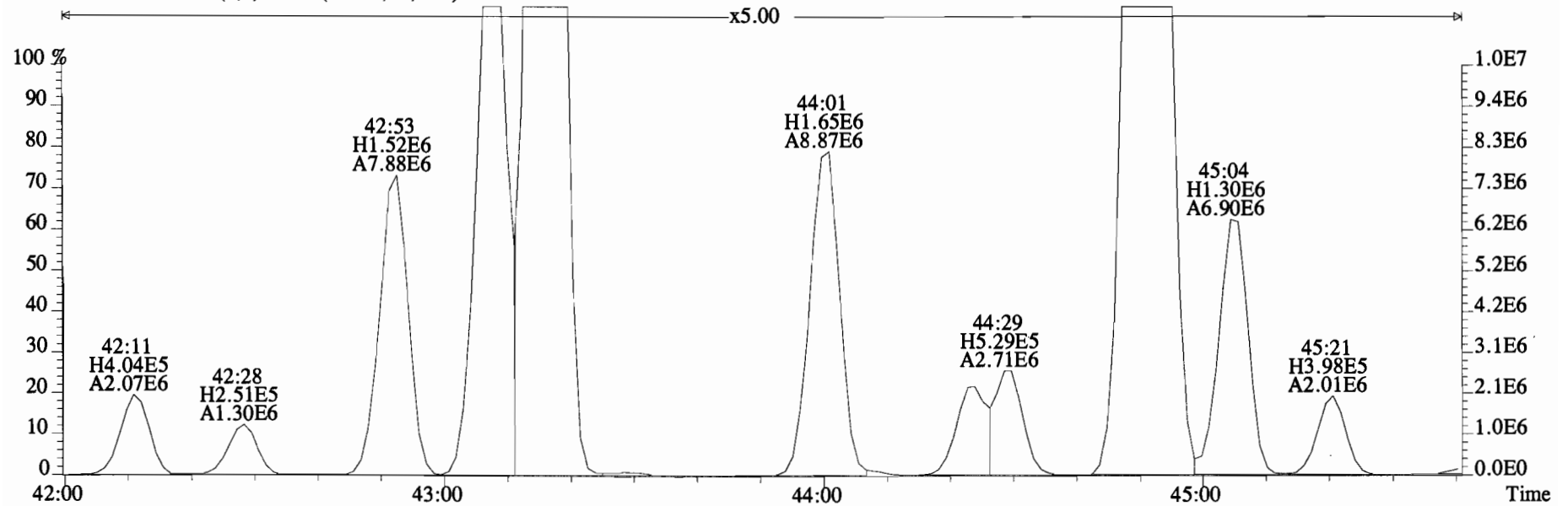
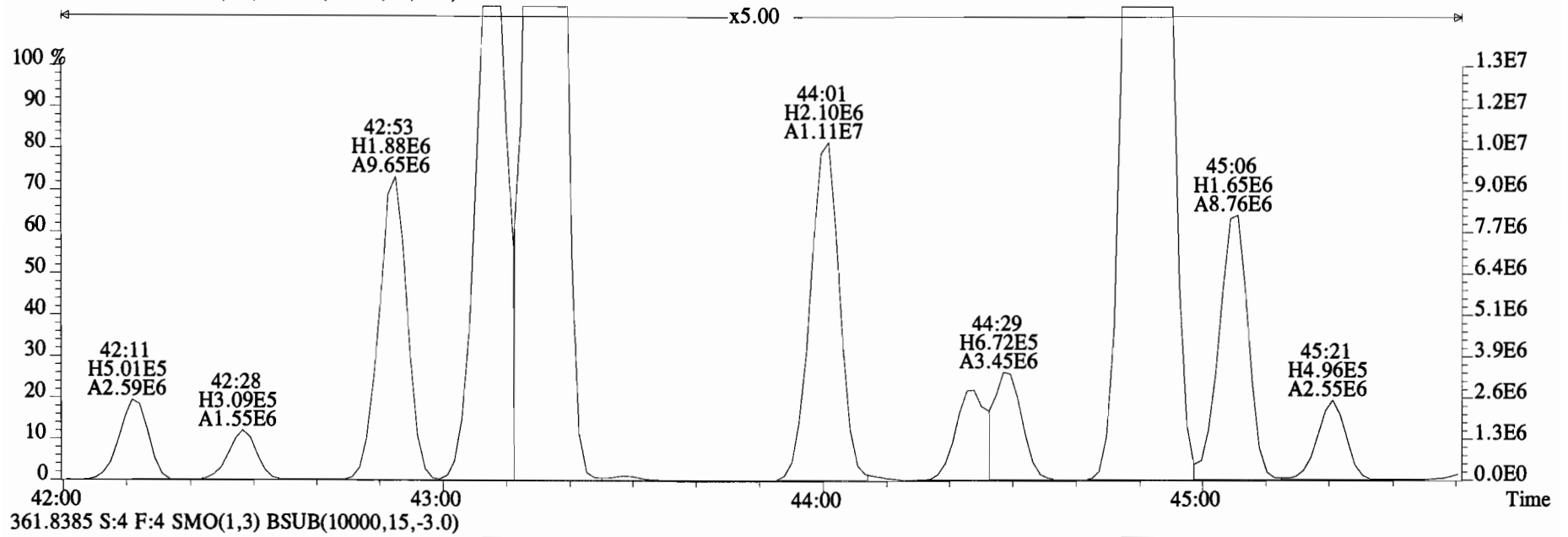
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1904.0,0.00%,F,F)



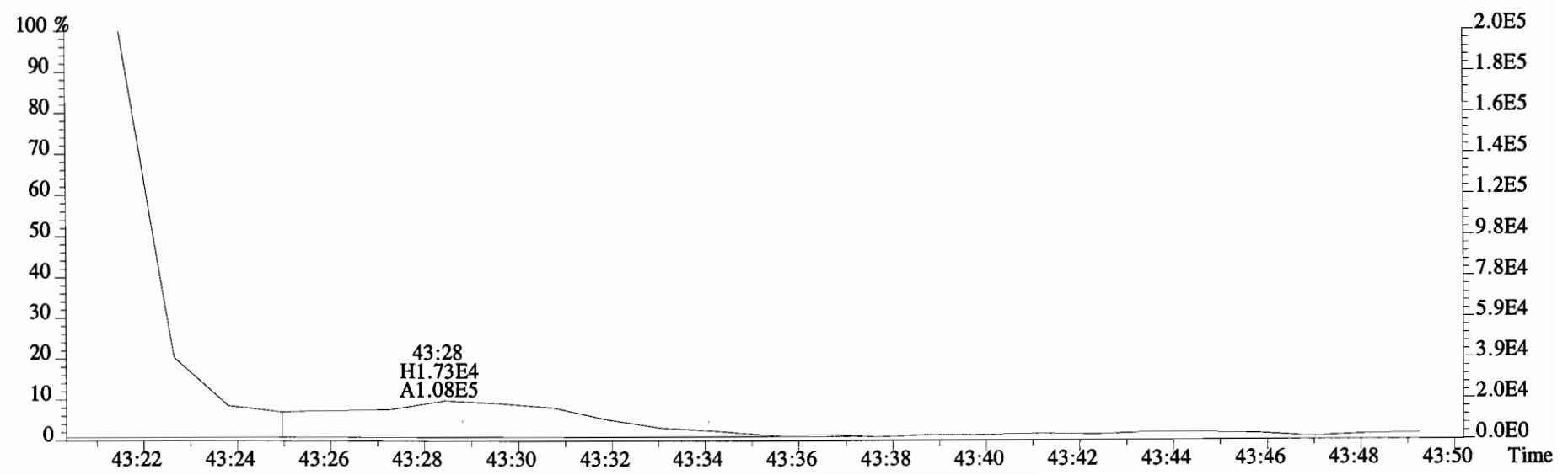
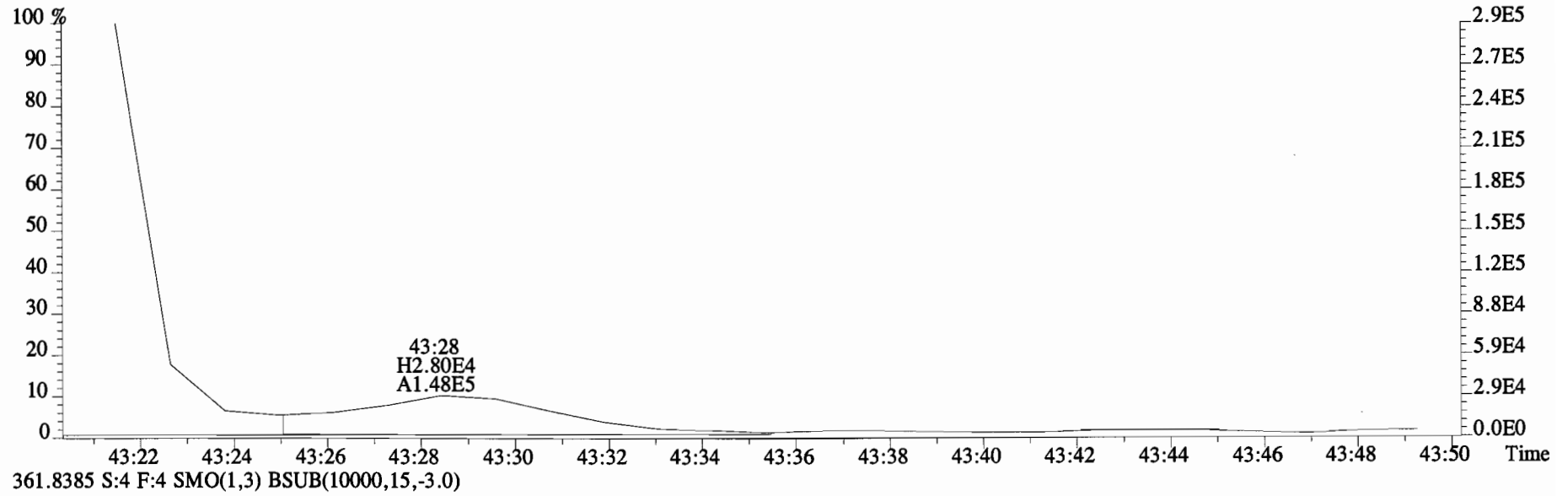
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0)



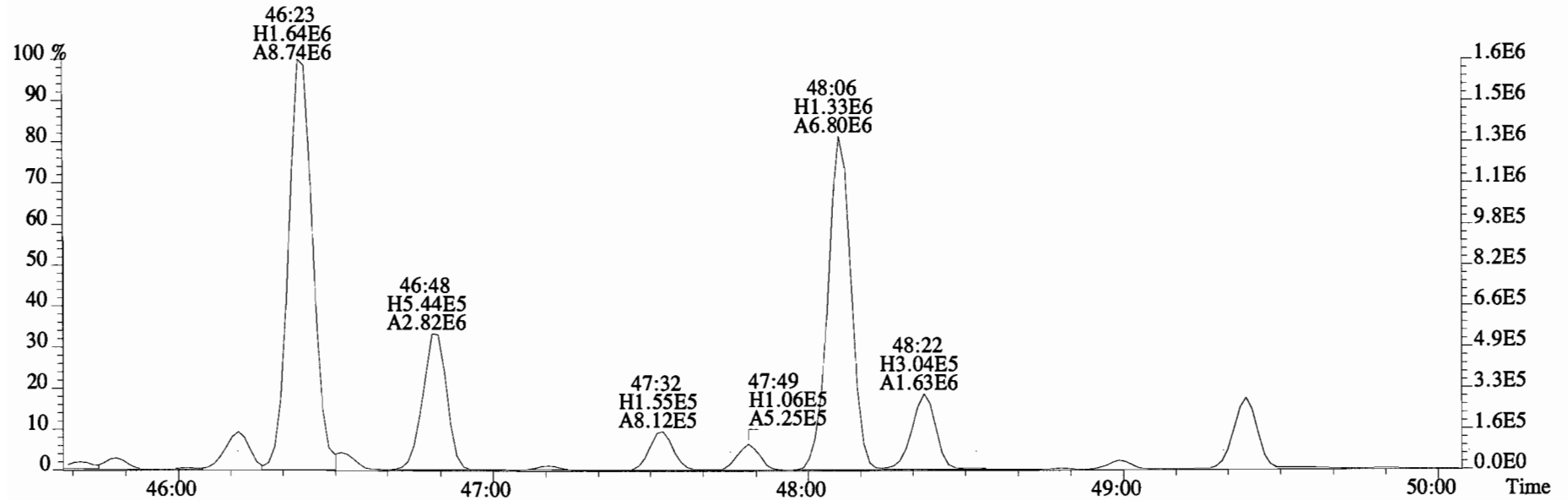
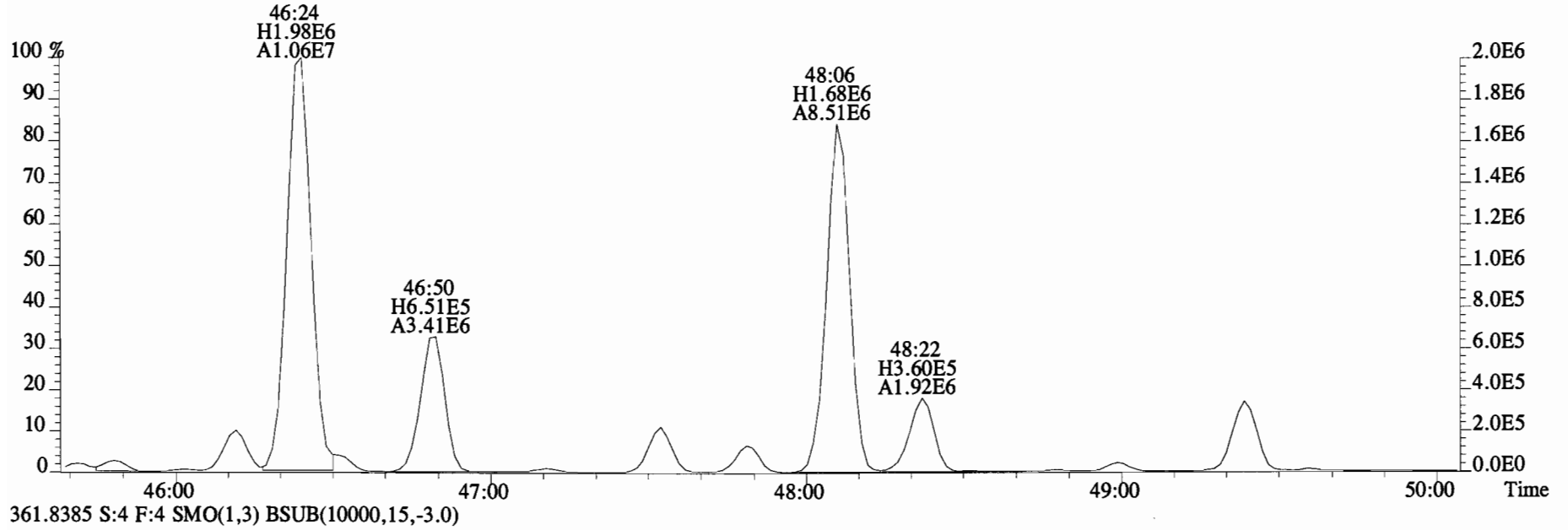
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0)



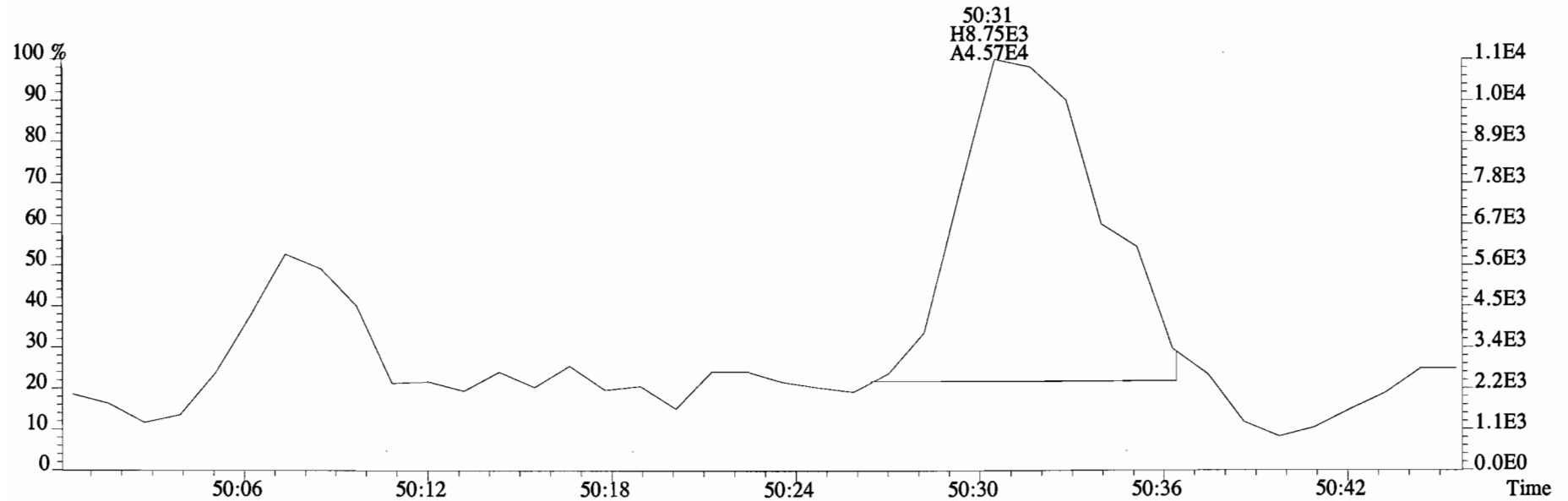
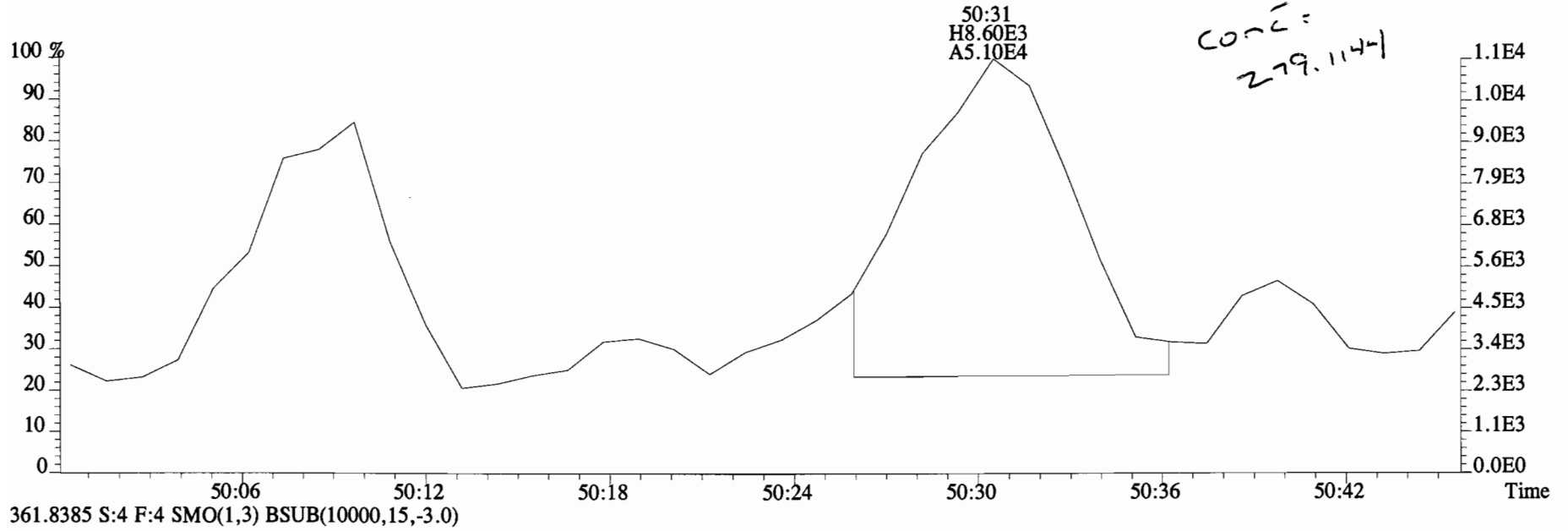
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0)



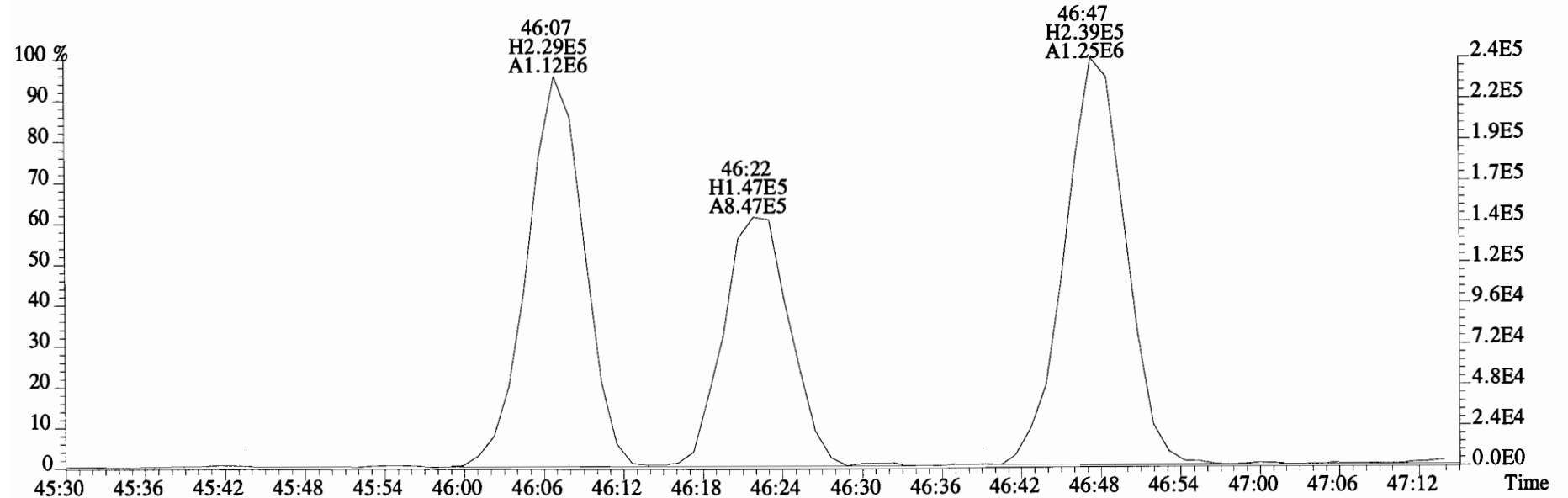
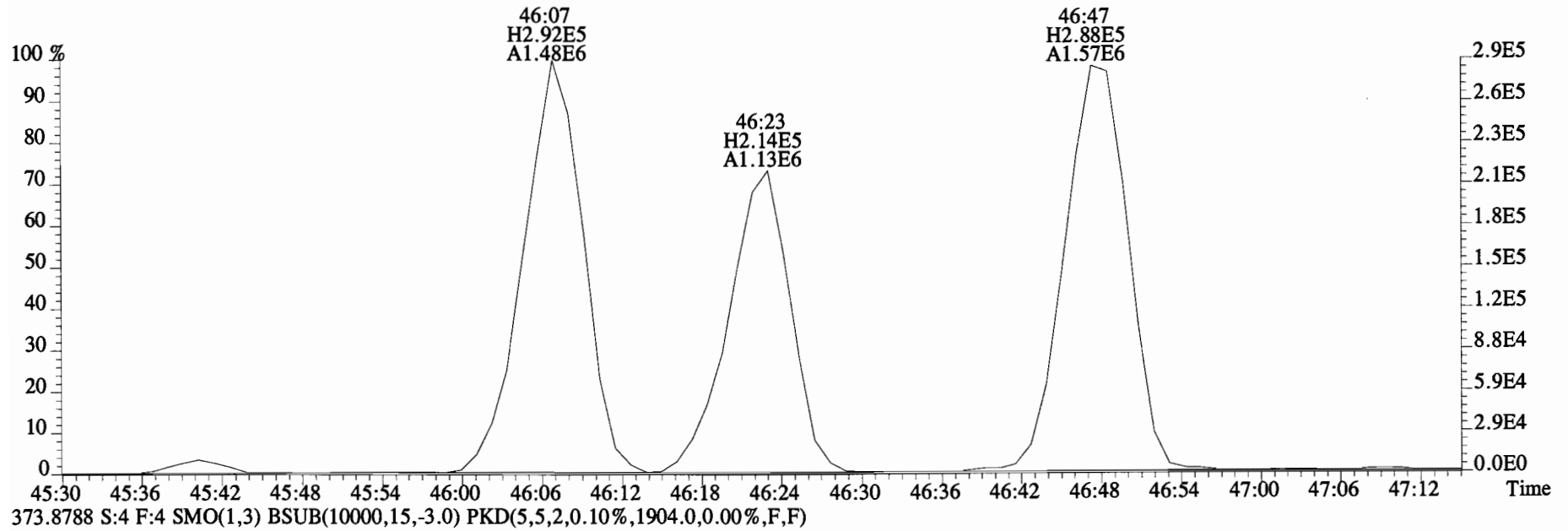
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0)



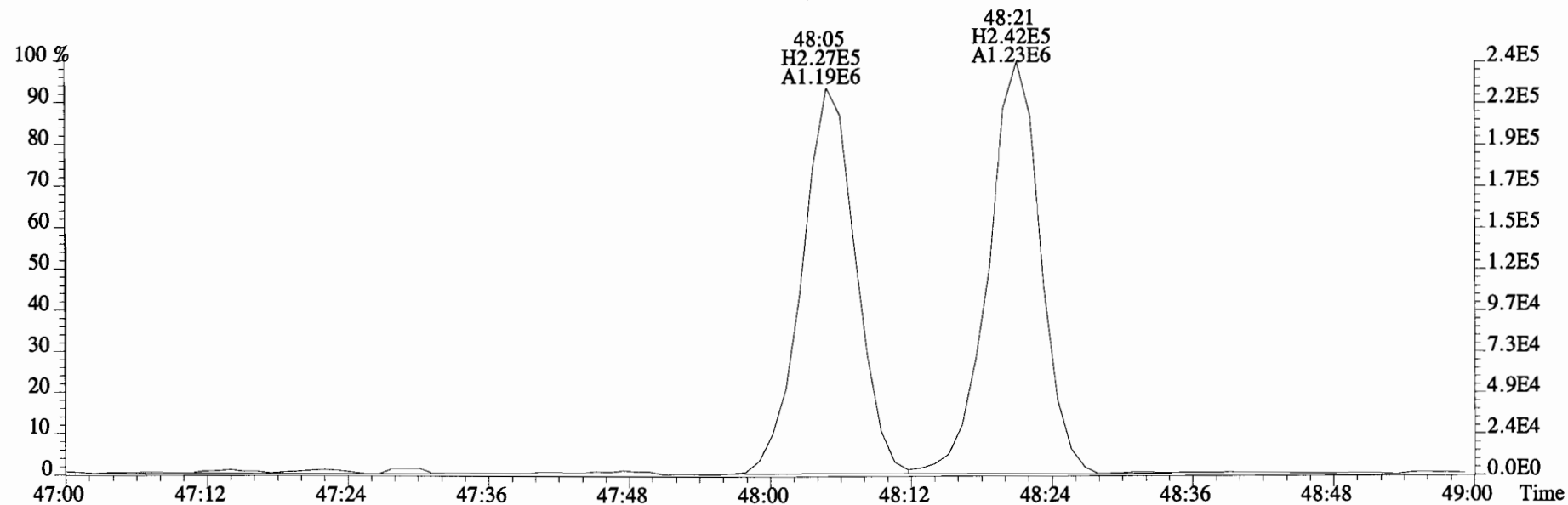
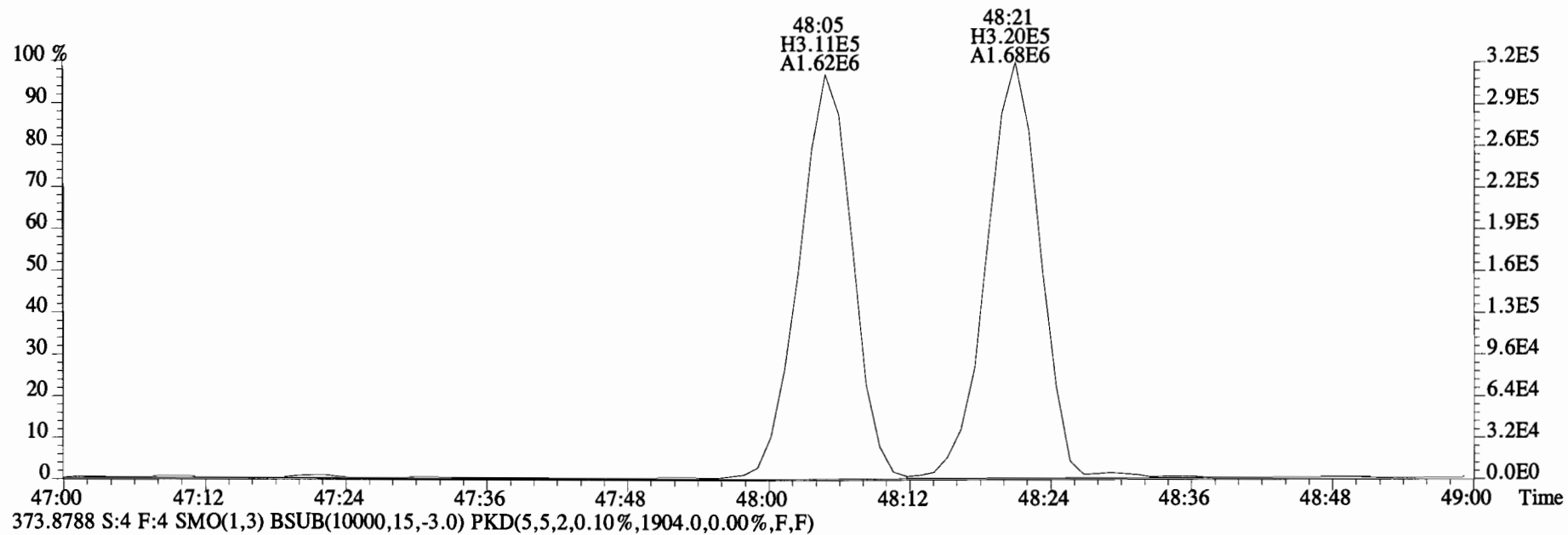
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0)



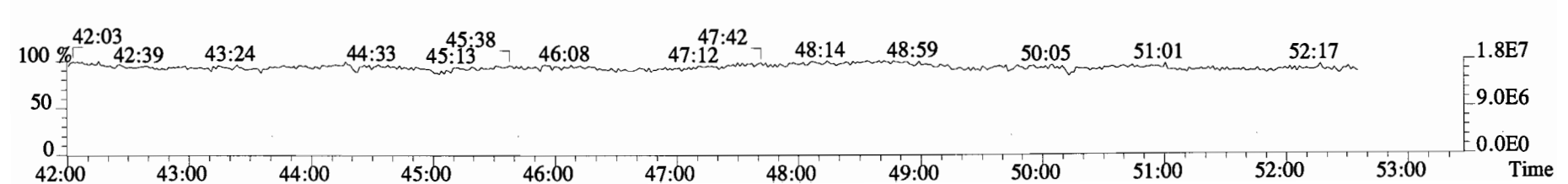
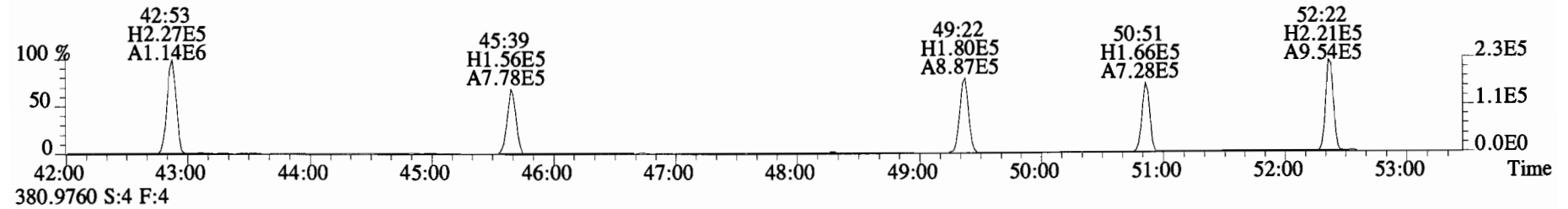
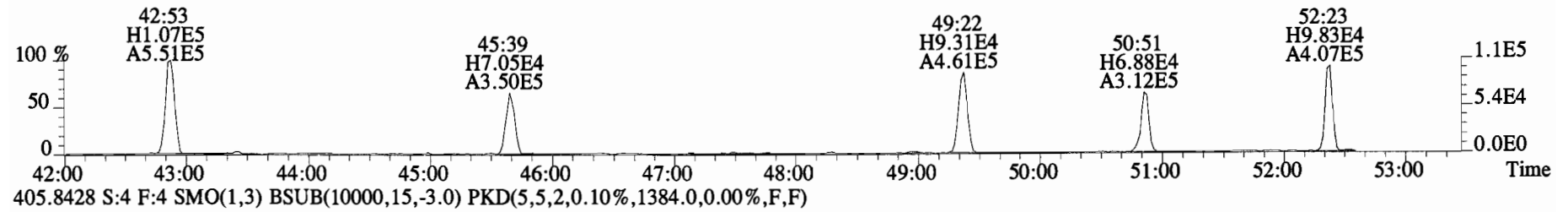
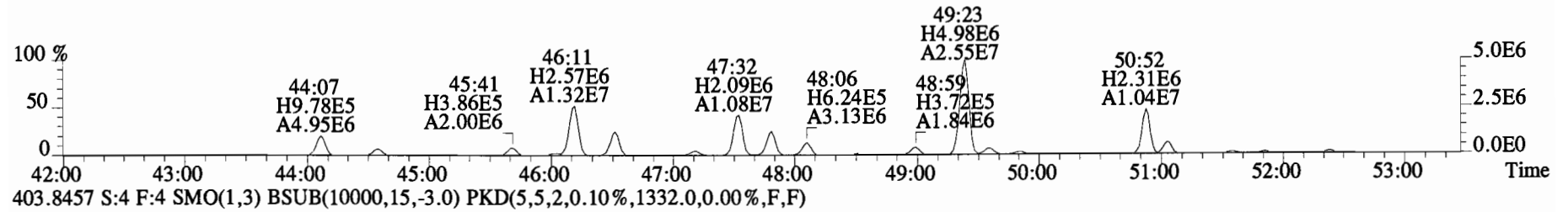
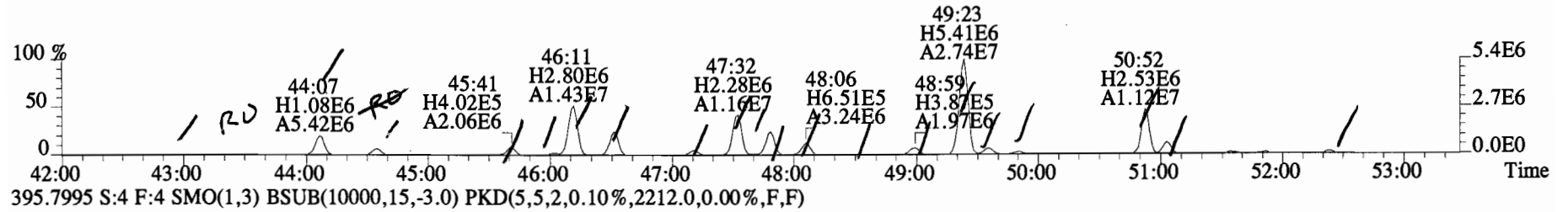
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1464.0,0.00%,F,F)



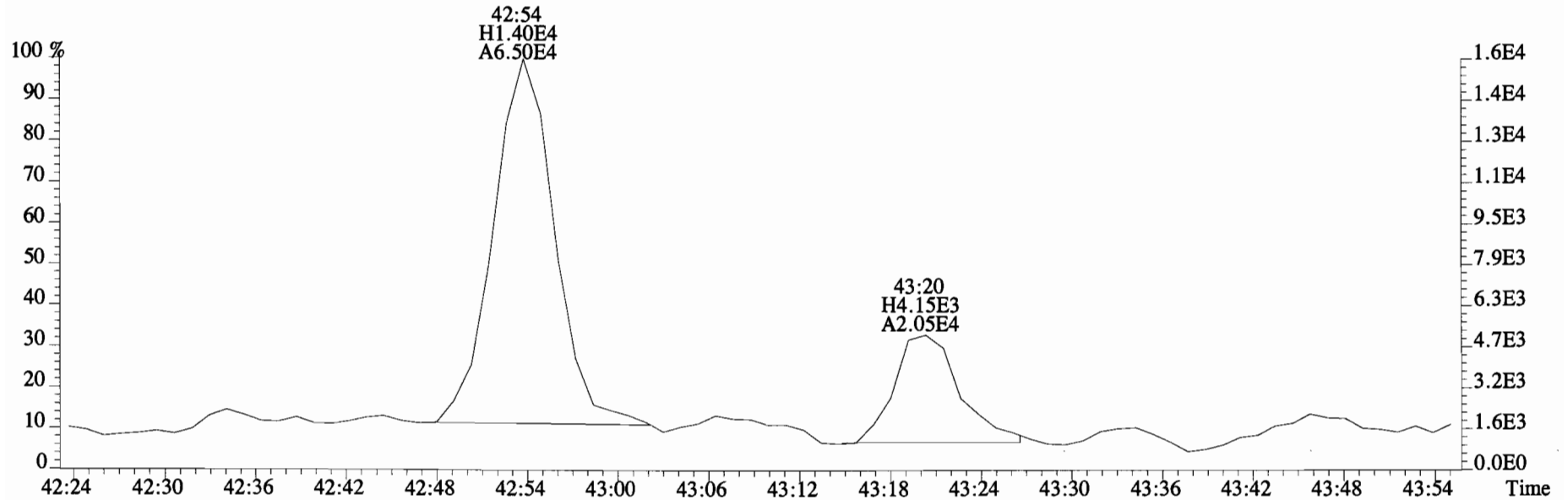
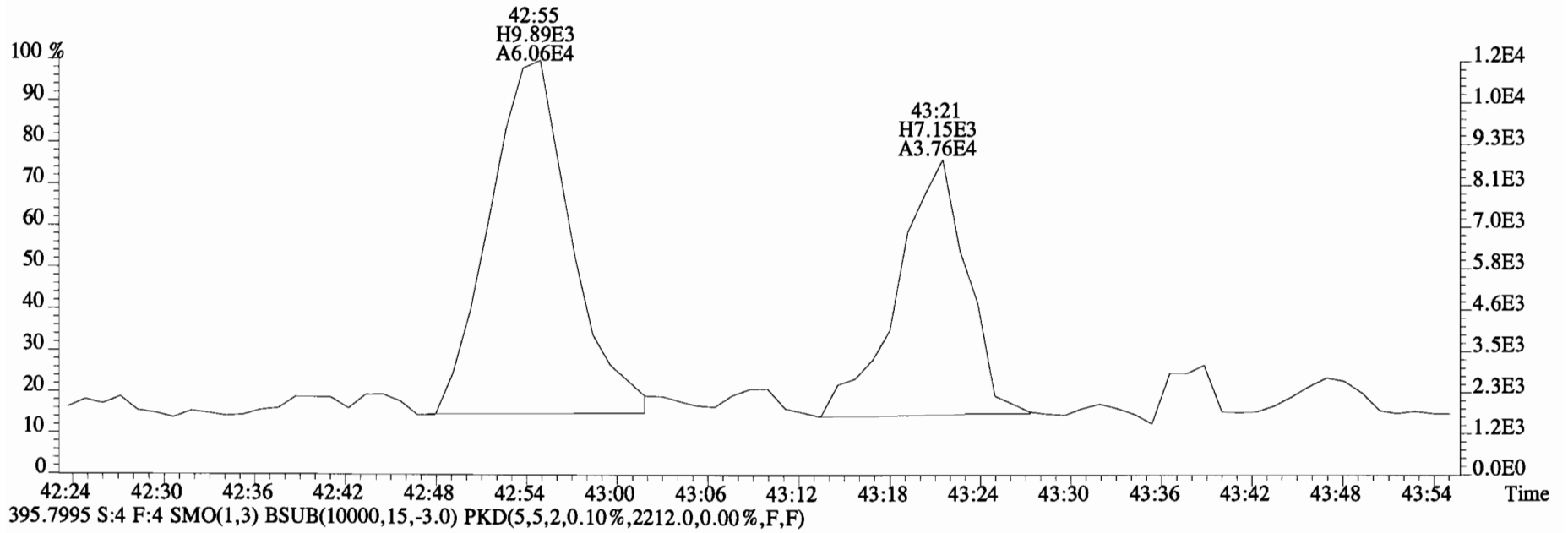
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1464.0,0.00%,F,F)



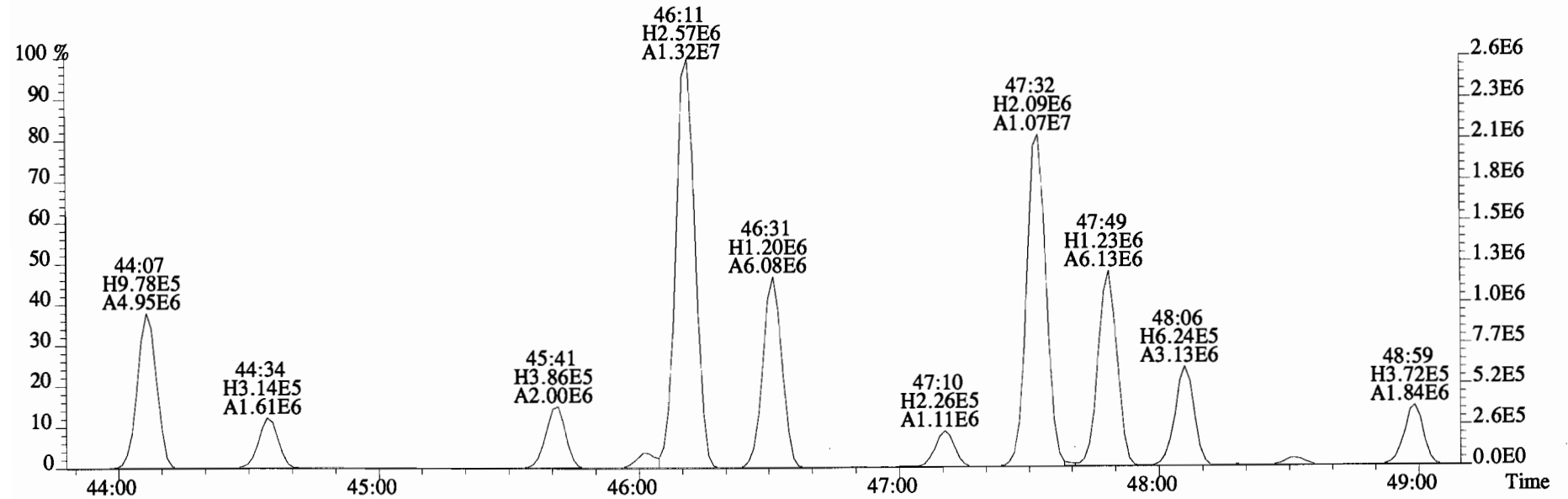
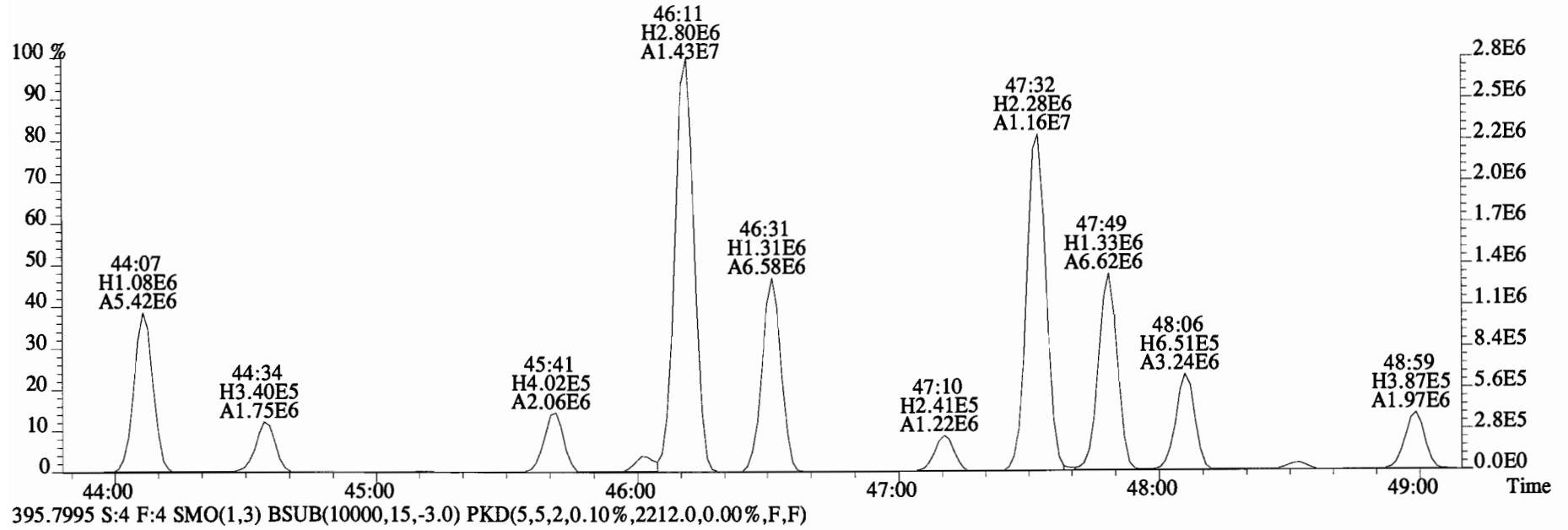
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2764.0,0.00%,F,F)



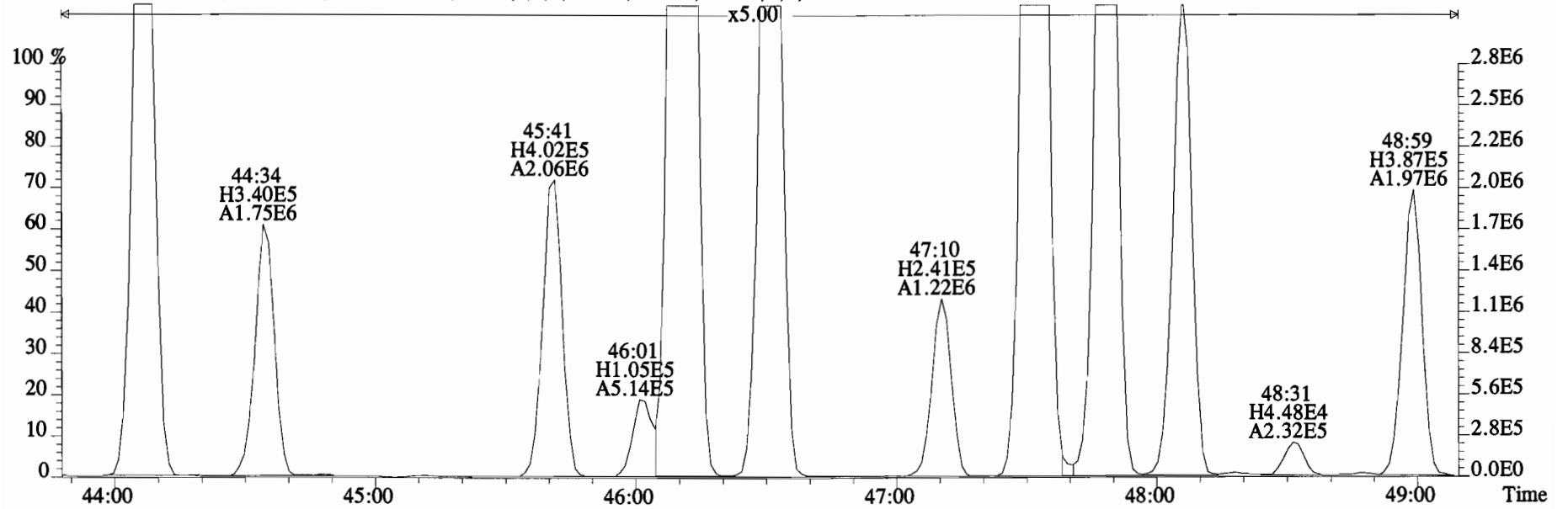
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2764.0,0.00%,F,F)



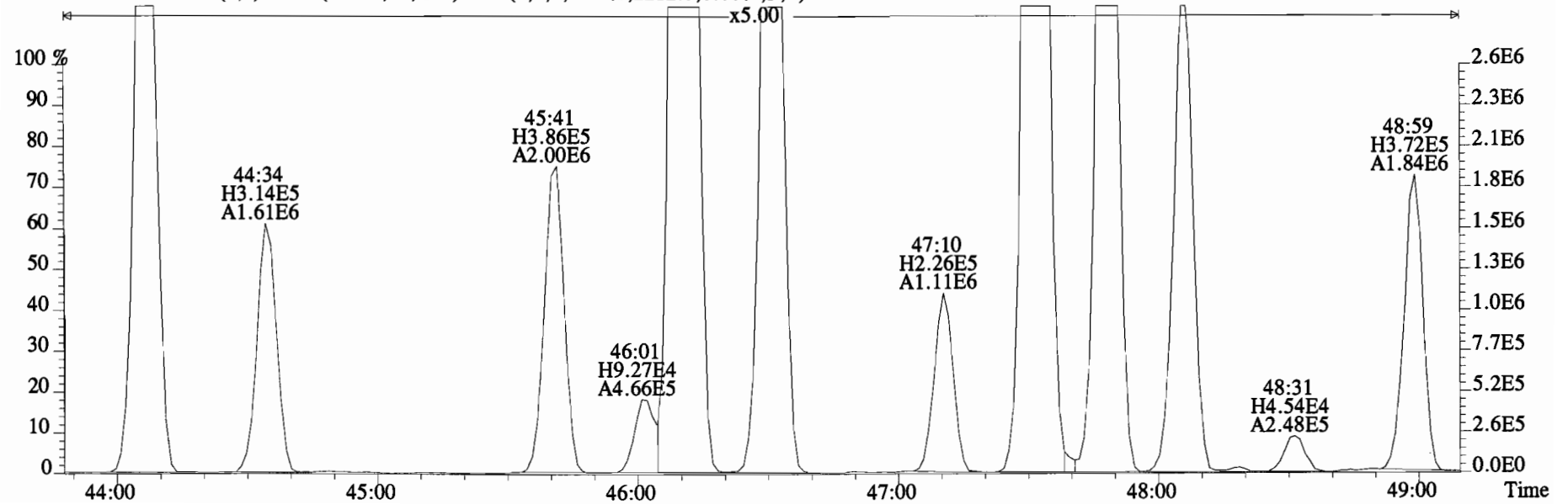
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2764.0,0.00%,F,F)



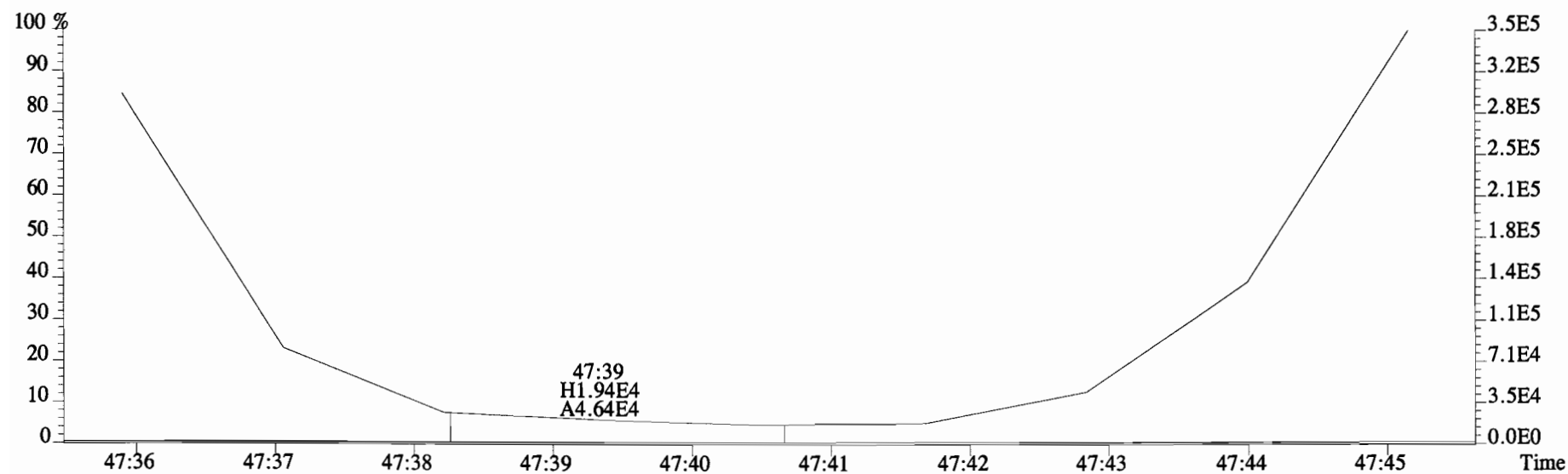
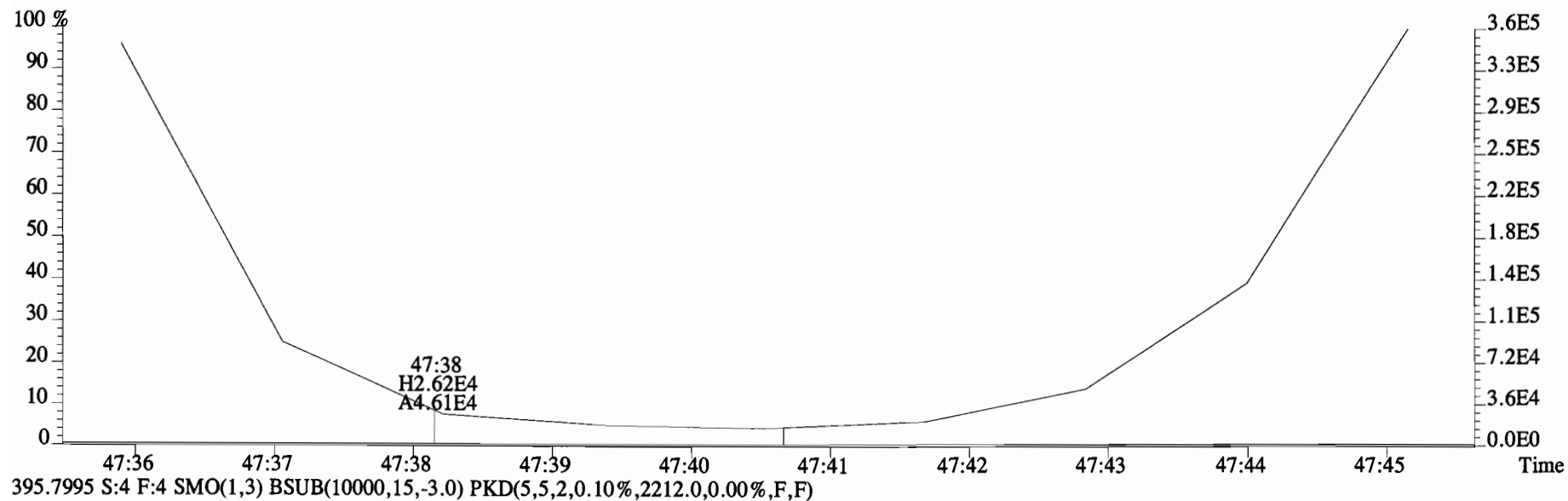
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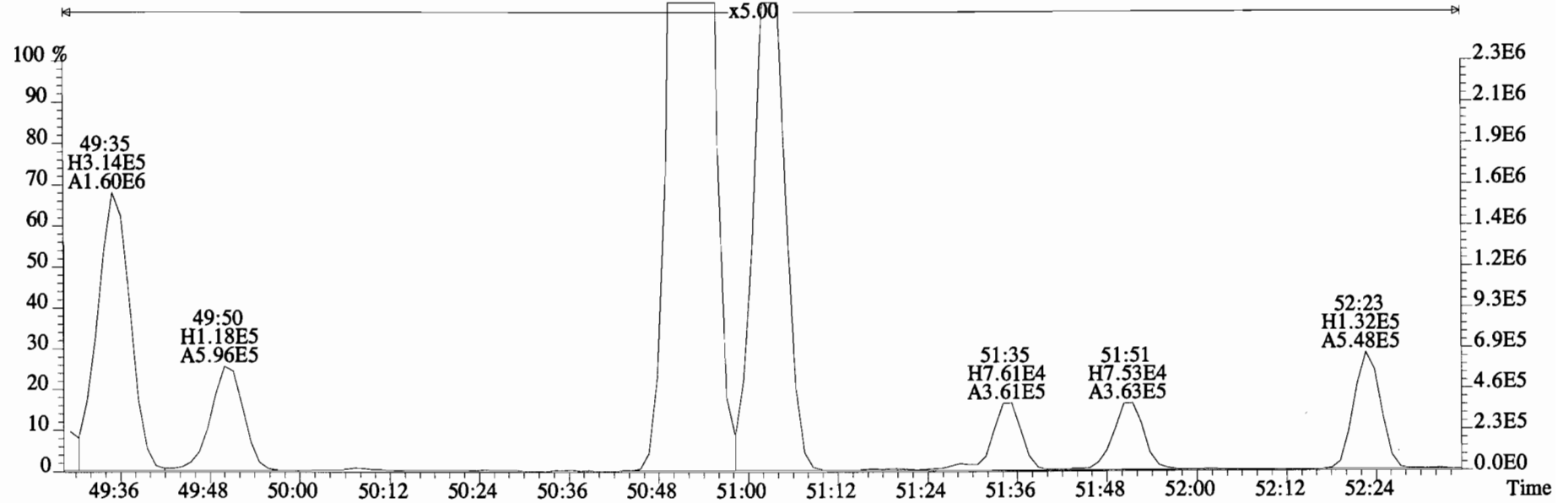
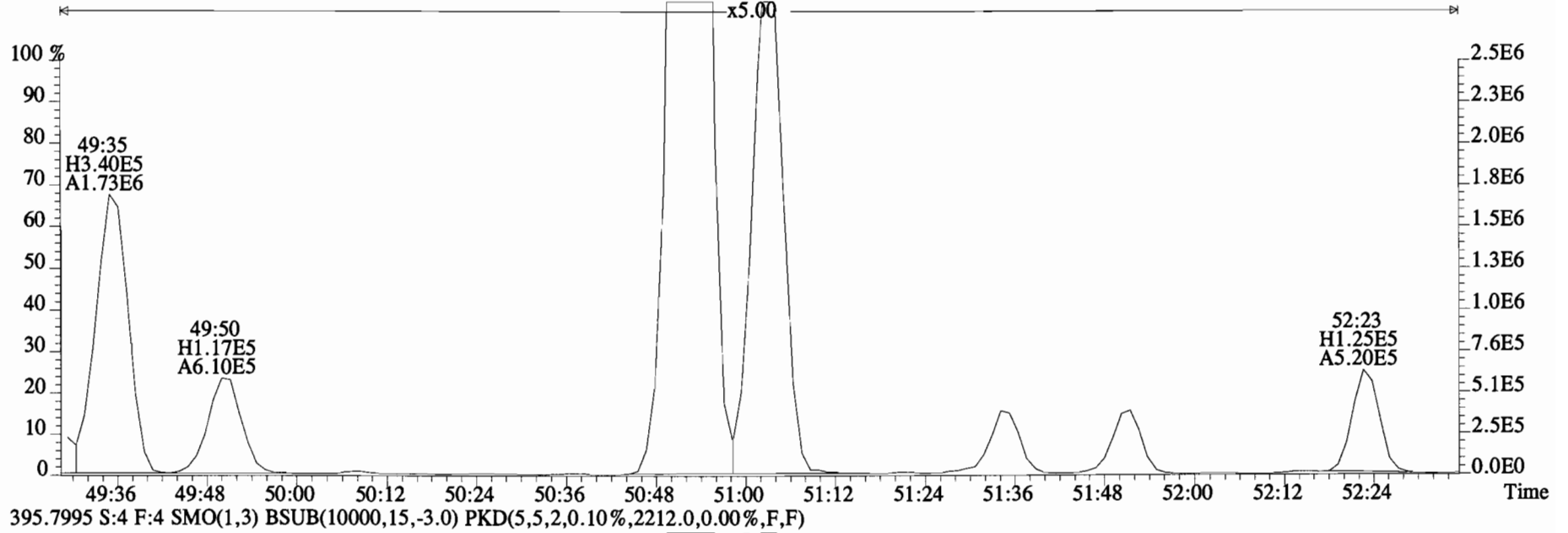
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2212.0,0.00%,F,F)



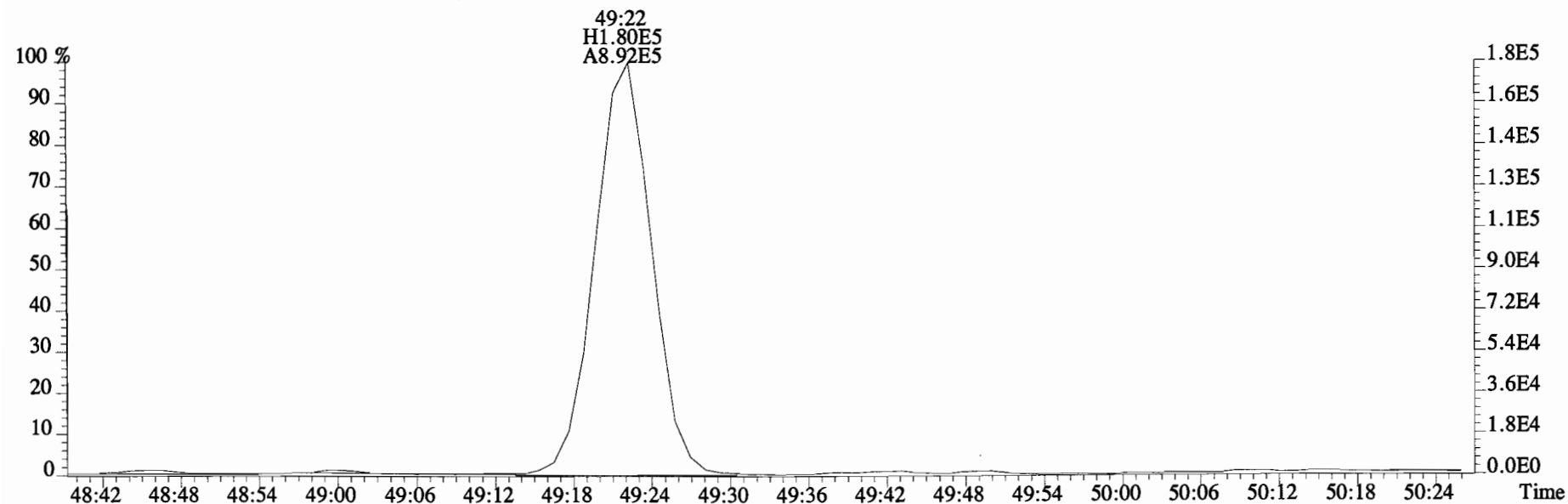
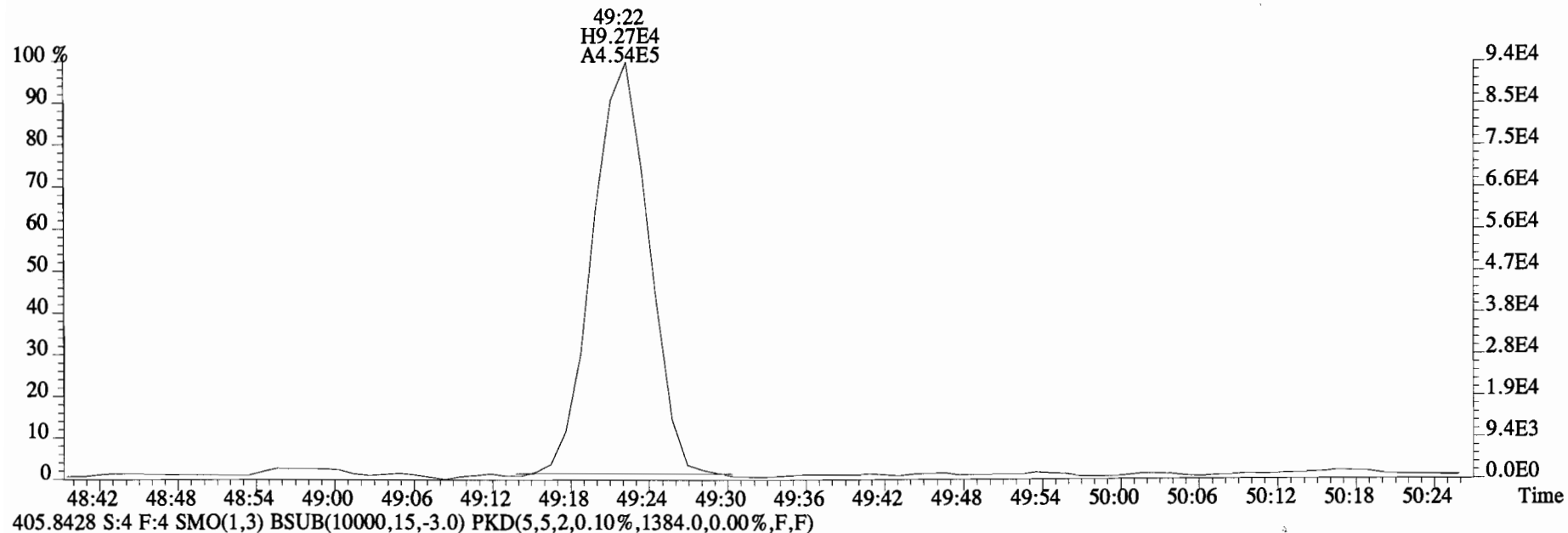
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 393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2764.0,0.00%,F,F)



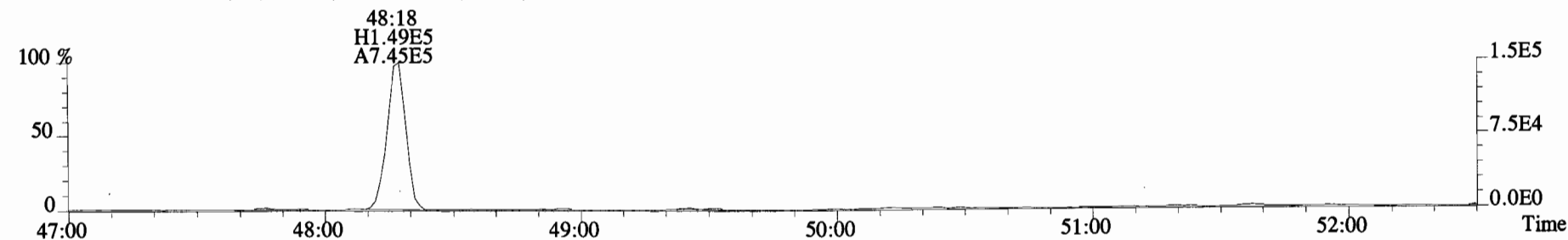
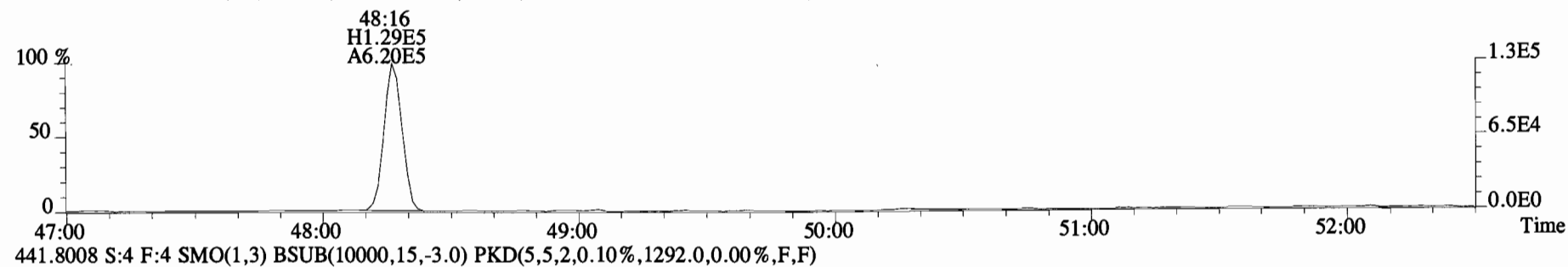
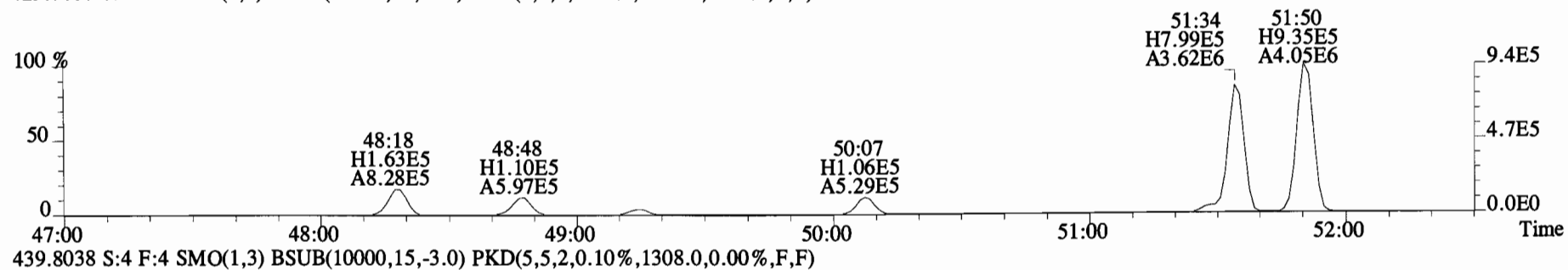
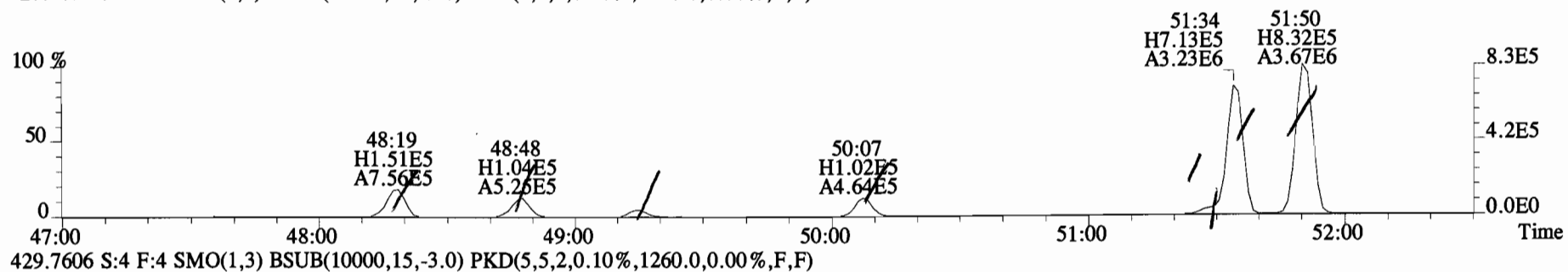
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
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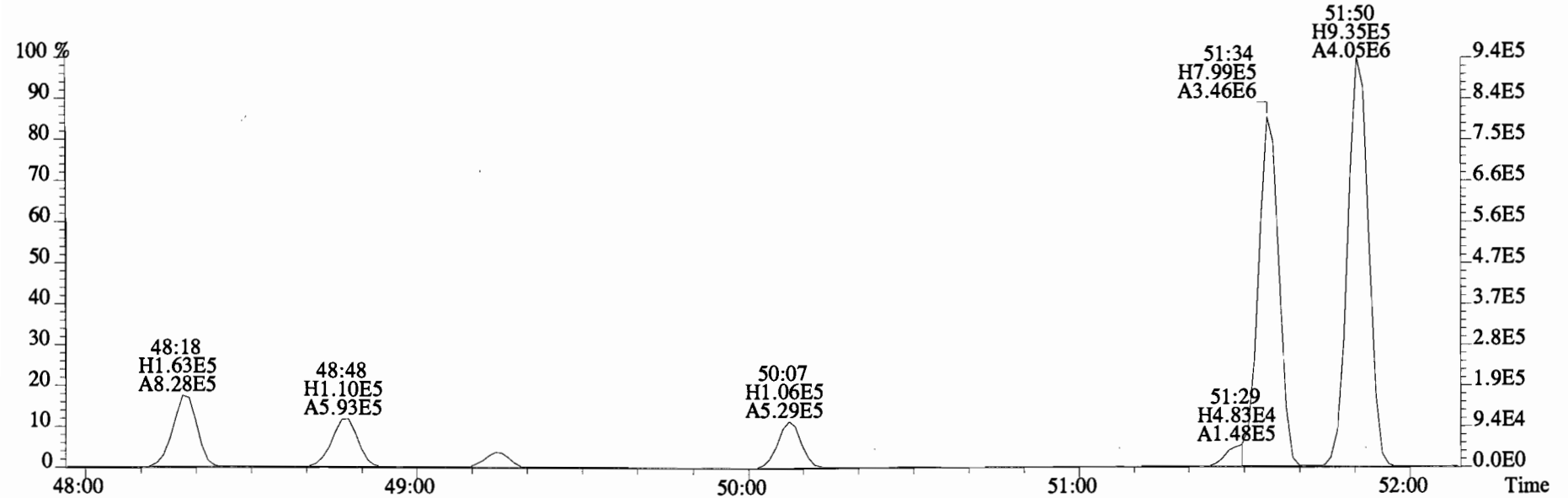
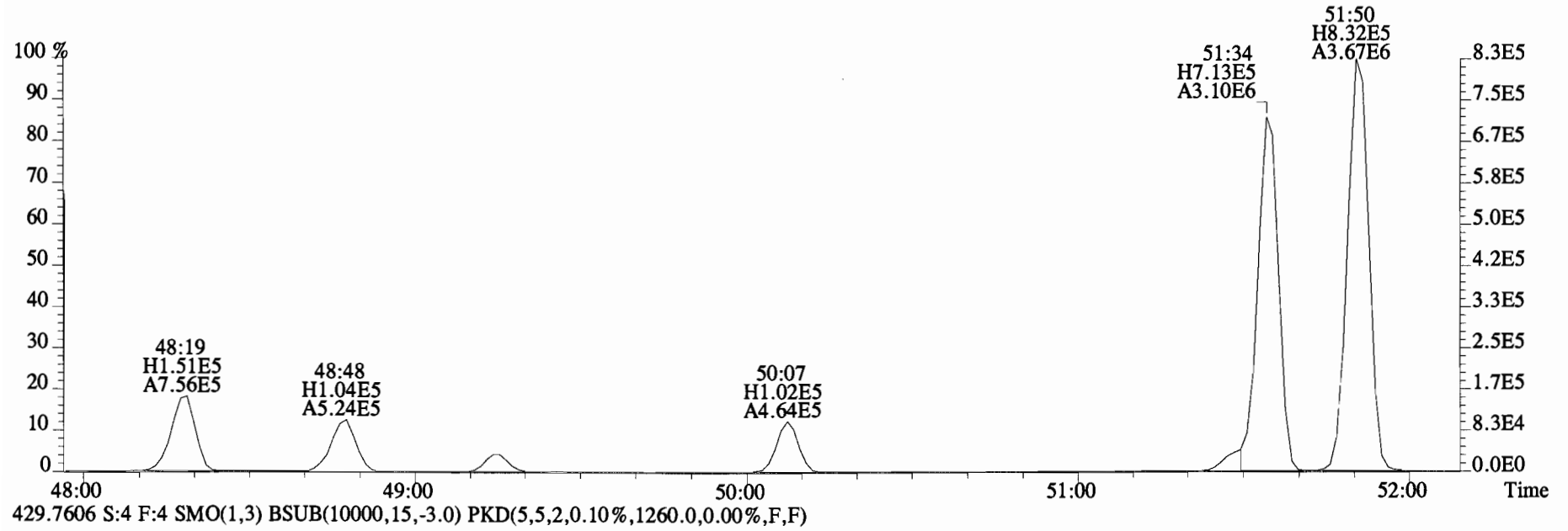
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
403.8457 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1332.0,0.00%,F,F)



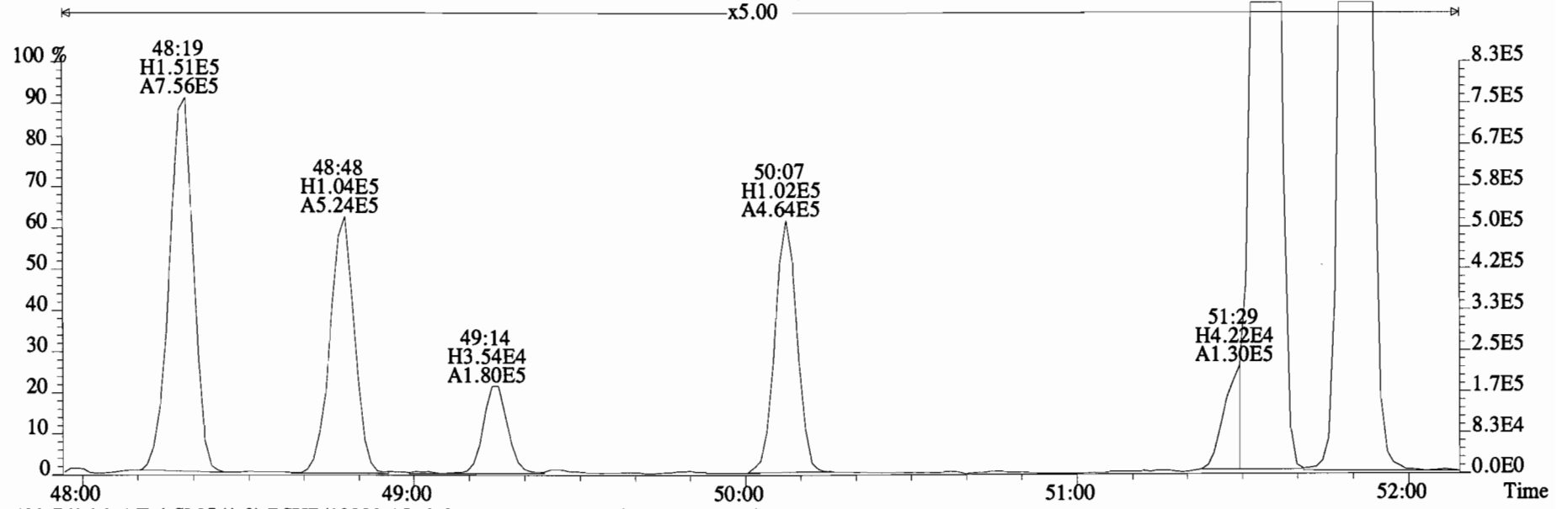
File:150319E1 #1-555 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1296.0,0.00%,F,F)



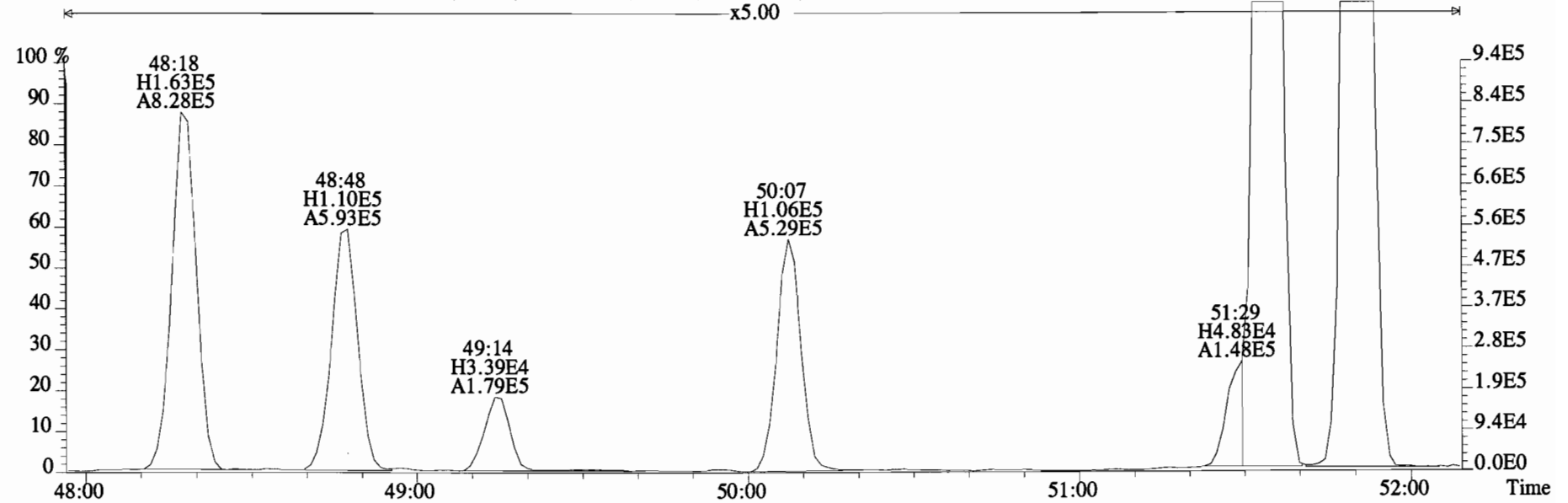
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1296.0,0.00%,F,F)



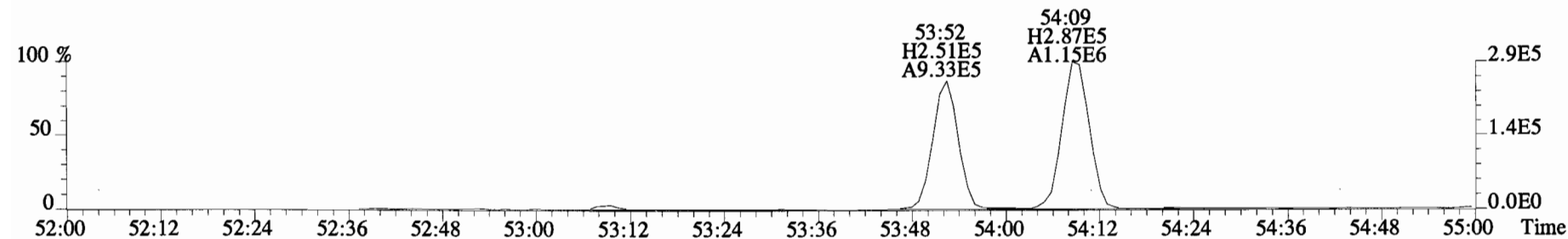
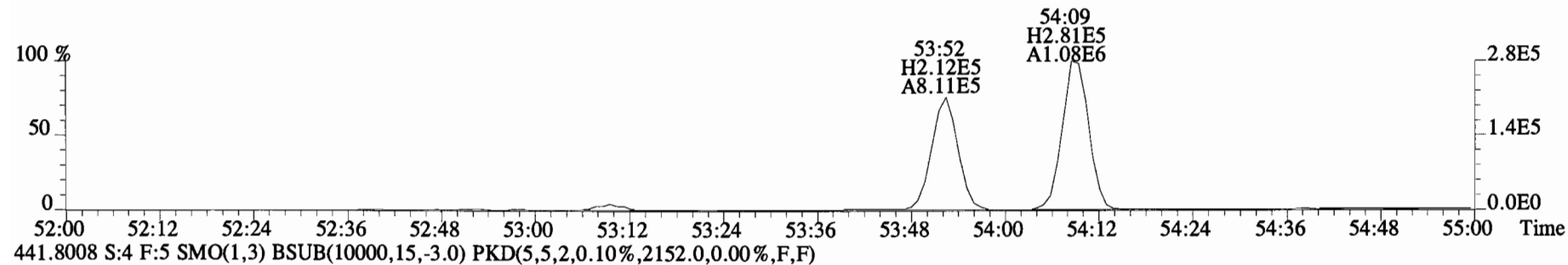
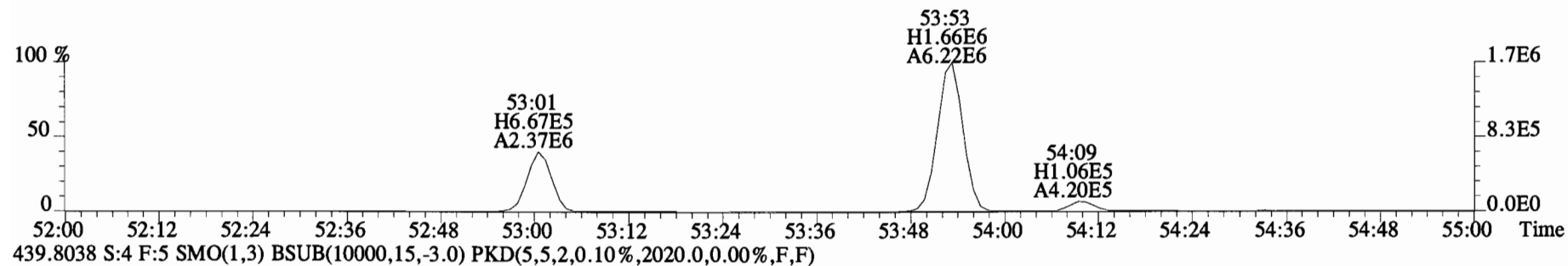
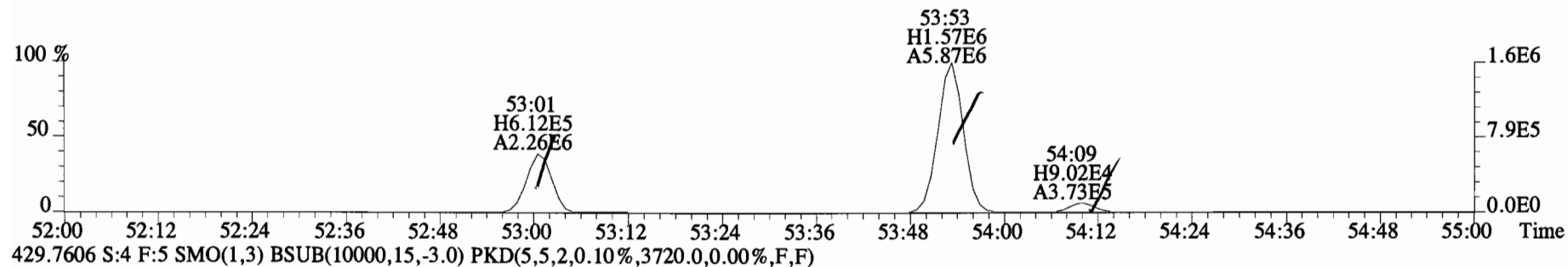
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 Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
 427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1296.0,0.00%,F,F)



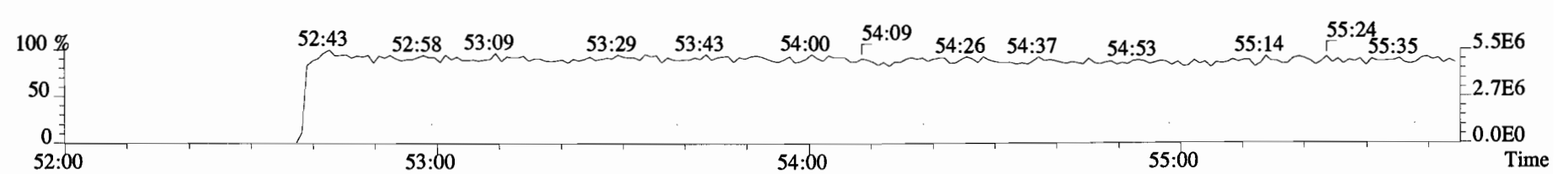
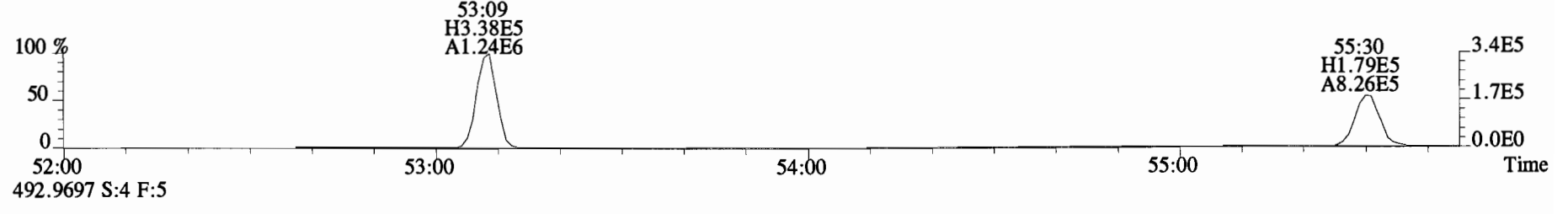
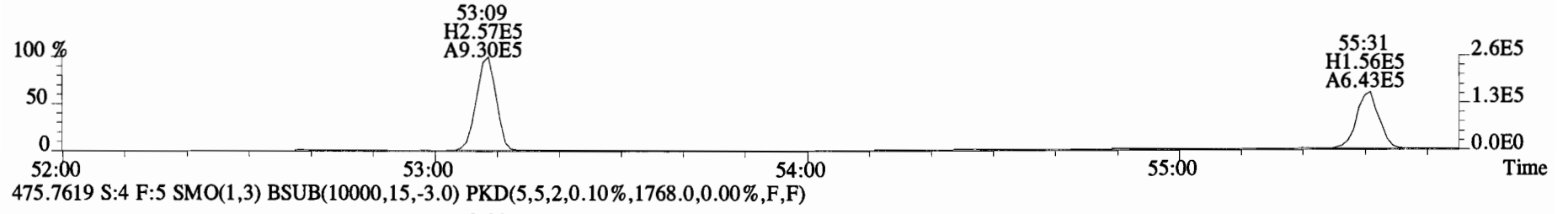
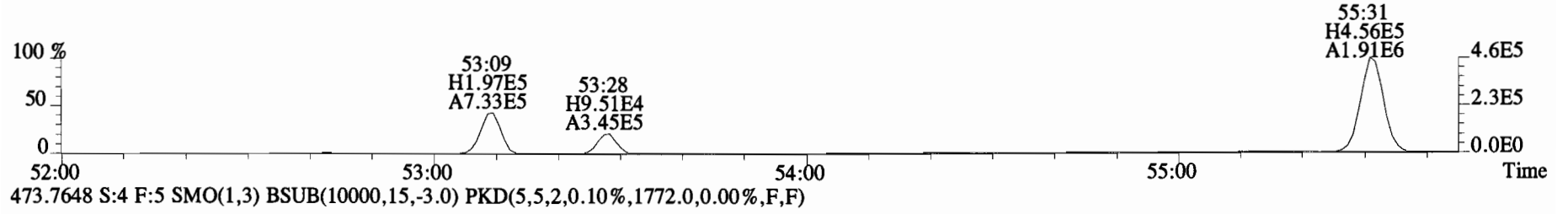
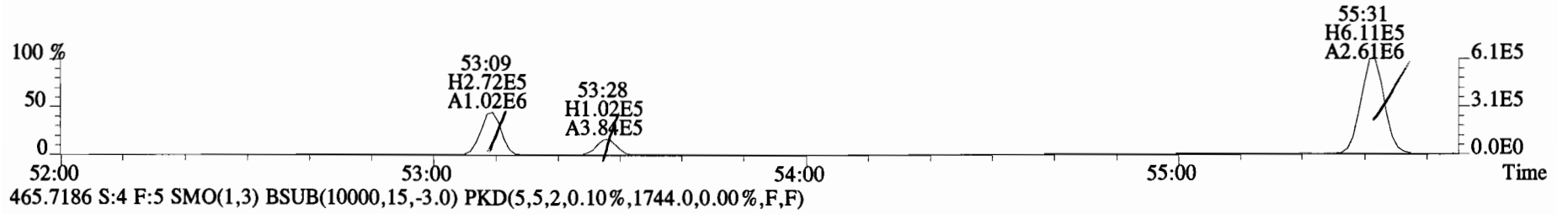
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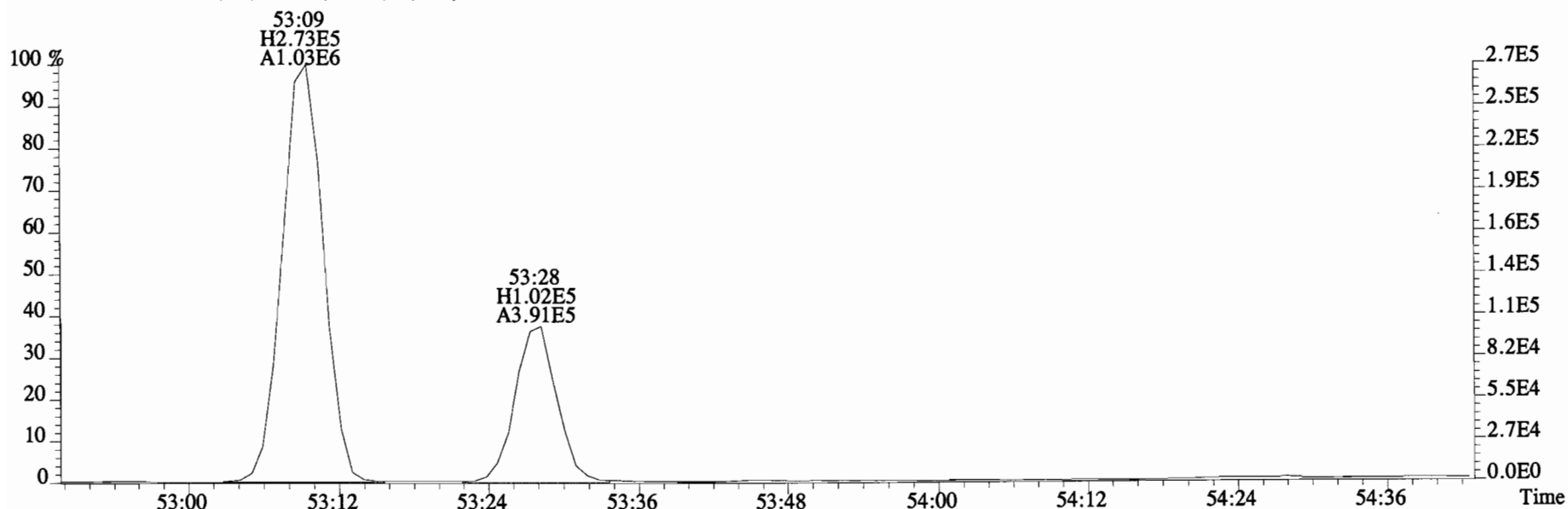
File:150319E1 #1-429 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2068.0,0.00%,F,F)



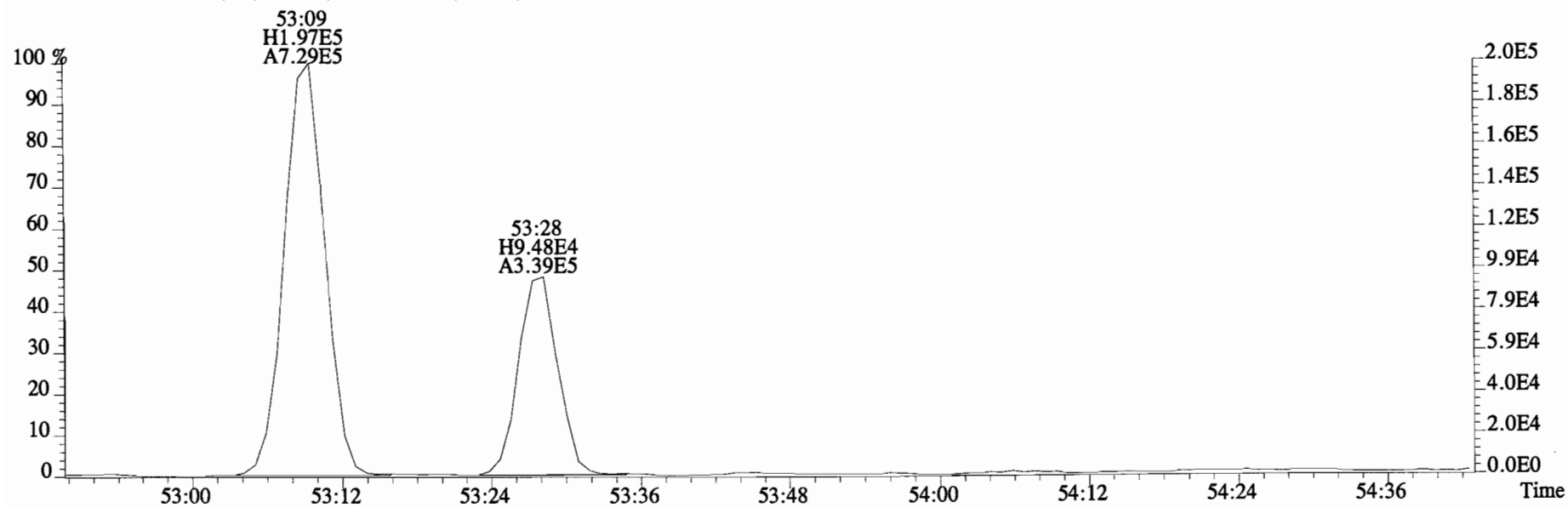
File:150319E1 #1-429 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1652.0,0.00%,F,F)



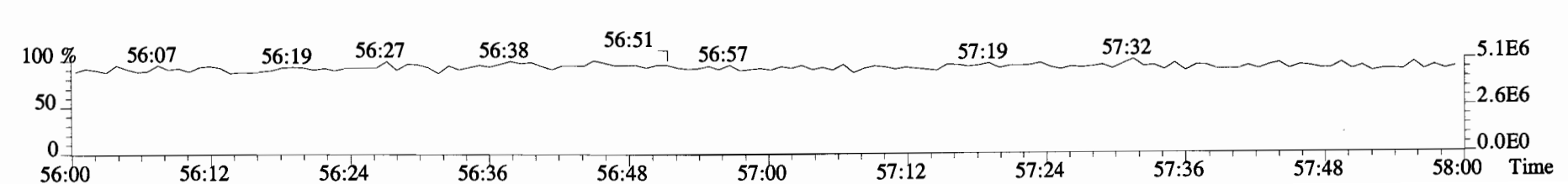
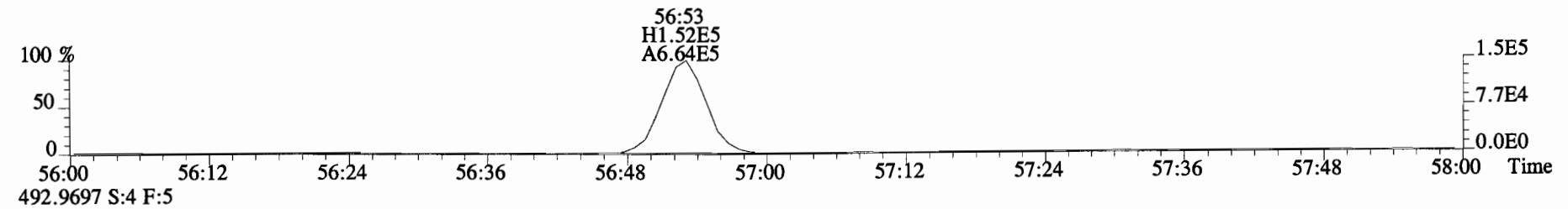
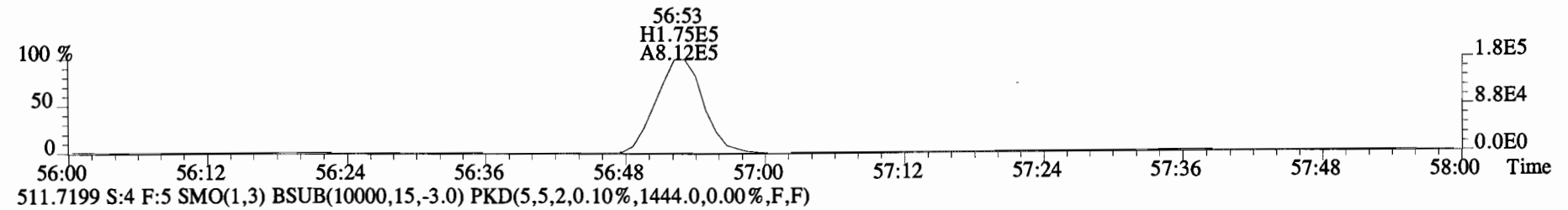
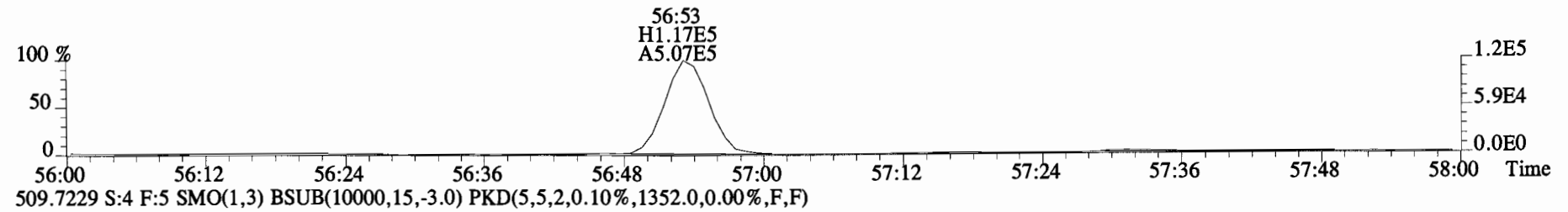
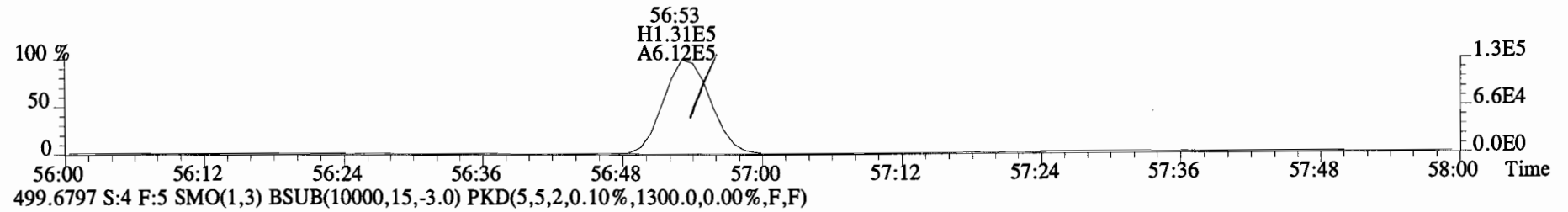
File:150319E1 #1-429 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0)



465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1744.0,0.00%,F,F)



File:150319E1 #1-429 Acq:19-MAR-2015 16:00:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:1400948-01RE1@20X SC-OWS-05-20141211-S Exp:PCB_ZB1
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1548.0,0.00%,F,F)



Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1@20X

Filename: 150319E1 S:5 Acq:19-MAR-15 17:05:20
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.891

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n NotF η	1.19	*		3380	2.5	174	*	0.996-1.006	
Mono	PCB-2	*	*	n NotF η	1.18	*		3380	2.5	194	*	0.984-0.994	
Mono	PCB-3	*	*	n NotF η	1.43	*		3380	2.5	161	*	0.996-1.006	
Di	PCB-4/10	*	*	n NotF η	1.57	*		14800	2.5	620	*	0.997-1.007	
Di	PCB-7/9	*	*	n NotF η	1.21	*		14800	2.5	543	*	0.866-0.874	
Di	PCB-6	*	*	n NotF η	1.30	*		14800	2.5	503	*	0.890-0.899	
Di	PCB-5/8	8.95e+05	1.52	y 22:58	1.15	1480		*	2.5	*	0.909	0.907-0.917	
Di	PCB-14	*	*	n NotF η	1.11	*		14800	2.5	653	*	0.949-0.959	
Di	PCB-11	1.69e+06	1.66	y 25:17	1.09	2860		*	2.5	*	1.001	0.995-1.005	
Di	PCB-12/13	*	*	n NotF η	1.19	*		14800	2.5	607	*	1.011-1.021	
Di	PCB-15	1.29e+06	1.49	y 26:00	1.28	1850		*	2.5	*	1.029	1.023-1.033	
Tri	PCB-19	1.19e+05	1.26	n 24:15	1.04	377	R	*	2.5	*	1.000	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.71	*		2600	2.5	106	*	1.032-1.042	
Tri	PCB-18	1.17e+06	1.10	y 25:54	0.78	3510		*	2.5	*	0.953	0.949-0.959	
Tri	PCB-17	5.21e+05	1.11	y 26:05	0.92	1320		*	2.5	*	0.960	0.956-0.966	
Tri	PCB-24/27	1.59e+05	0.91	y 26:38	1.19	313		*	2.5	*	0.980	0.977-0.987	
Tri	PCB-16/32	1.17e+06	1.07	y 27:09	0.94	2900		*	2.5	*	0.999	0.995-1.005	
Tri	PCB-34	*	*	n NotF η	1.14	*		2440	2.5	109	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF η	1.28	*		2440	2.5	96.5	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF η	1.08	*		2440	2.5	114	*	0.967-0.977	
Tri	PCB-26	6.38e+05	1.14	y 28:31	1.21	1120		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	3.41e+05	1.02	y 28:40	1.26	571		*	2.5	*	0.985	0.979-0.989	
Tri	PCB-31	3.66e+06	1.11	y 29:02	1.28	6020		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	4.52e+06	1.08	y 29:08	1.71	5570		*	2.5	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	2.81e+06	1.09	y 29:46	1.08	5490		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	2.05e+06	1.12	y 30:11	1.21	3580		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.14	*		2440	2.5	115	*	0.928-0.938	
Tri	PCB-39	*	*	n NotF η	1.12	*		2440	2.5	118	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF η	1.20	*		2440	2.5	110	*	0.966-0.976	
Tri	PCB-35	3.13e+05	1.19	y 32:34	1.23	570		*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	5.05e+06	1.10	y 33:01	1.23	9200		*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-54	*	*	n NotF η	1.10	*		2990	2.5	161	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.88	*		2990	2.5	202	*	1.037-1.047	
Tetra	PCB-53	3.35e+05	0.82	y 29:49	1.06	1110		*	2.5	*	0.946	0.942-0.952	
Tetra	PCB-51	1.56e+05	0.85	y 30:10	0.99	554		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	3.30e+05	0.75	y 30:35	0.86	1340		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	1.75e+05	0.66	y 31:05	0.85	727		*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 3/26/15

Reviewed by: [Signature] Date: 3/27/15

Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1@20X

Filename: 150319E1 S:5 Acq:19-MAR-15 17:05:20
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.891

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	3.31e+06	0.72	y 31:33	1.28	9070	*	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	n	NotF η	1.35	*		2990	2.5	172	*	1.000-1.010	
Tetra	PCB-43/49	2.12e+06	0.76	y 31:50	0.99	7480	*	*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	7.95e+05	0.83	y 32:03	1.06	2420	*	*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	7.14e+05	0.83	y 32:11	1.23	1880	*	*	2.5	*	1.005	0.999-1.009	
Tetra	PCB-65	*	n	NotF η	1.22	*		2990	2.5	178	*	1.008-1.018	
Tetra	PCB-62	*	n	NotF η	1.22	*		2990	2.5	178	*	1.011-1.021	
Tetra	PCB-44	2.80e+06	0.83	y 32:50	0.86	10500	*	*	2.5	*	1.025	1.021-1.031	
Tetra	PCB-42/59	1.43e+06	0.74	y 33:04	1.14	4050	*	*	2.5	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	4.21e+06	0.80	y 33:39	1.21	11300	*	*	2.5	*	1.050	1.046-1.056	
Tetra	PCB-68	4.50e+04	0.62	n 33:55	1.35	108	R	*	2.5	*	1.059	1.054-1.064	
Tetra	PCB-40	6.30e+05	0.82	y 34:08	0.70	2900	*	*	2.5	*	1.066	1.061-1.071	
Tetra	PCB-57	*	n	NotF η	0.98	*		2990	2.5	177	*	0.965-0.975	
Tetra	PCB-67	2.77e+05	0.77	y 34:47	1.11	658	*	*	2.5	*	0.979	0.974-0.984	
Tetra	PCB-58	*	n	NotF η	0.93	*		2990	2.5	187	*	0.977-0.987	
Tetra	PCB-63	2.84e+05	0.85	y 35:03	0.95	784	*	*	2.5	*	0.986	0.982-0.992	
Tetra	PCB-74	3.51e+06	0.82	y 35:22	1.24	7420	*	*	2.5	*	0.995	0.990-1.000	
Tetra	PCB-61/70	9.20e+06	0.81	y 35:34	0.95	25400	*	*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-76/66	7.97e+06	0.78	y 35:47	1.04	20100	*	*	2.5	*	1.007	1.001-1.011	
Tetra	PCB-80	*	n	NotF η	1.19	*		2990	2.5	147	*	0.996-1.006	
Tetra	PCB-55	2.24e+05	0.66	y 36:17	1.04	522	*	*	2.5	*	1.009	1.005-1.015	
Tetra	PCB-56/60	7.04e+06	0.80	y 36:47	1.01	16900	*	*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	1.58e+05	0.82	y 37:53	1.08	355	*	*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	n	NotF η	1.27	*		2990	2.5	151	*	0.982-0.992	
Tetra	PCB-81	8.96e+04	0.74	y 39:03	1.33	183	*	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	2.96e+06	0.79	y 39:41	1.10	7160	*	*	2.5	*	1.001	0.995-1.005	
Penta	PCB-104	*	n	NotF η	1.18	*		3030	2.5	374	*	0.996-1.006	
Penta	PCB-96	*	n	NotF η	1.14	*		3030	2.5	389	*	1.034-1.044	
Penta	PCB-103	*	n	NotF η	0.96	*		3030	2.5	463	*	1.050-1.060	
Penta	PCB-100	*	n	NotF η	0.94	*		3030	2.5	473	*	1.061-1.071	
Penta	PCB-94	*	n	NotF η	1.06	*		3030	2.5	654	*	0.980-0.990	
Penta	PCB-95/98/102	2.59e+06	1.64	y 35:51	1.22	13700	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-93	*	n	NotF η	0.84	*		3030	2.5	820	*	0.997-1.007	
Penta	PCB-88/91	5.25e+05	1.73	y 36:15	1.12	3060	*	*	2.5	*	1.012	1.005-1.015	
Penta	PCB-121	*	n	NotF η	1.62	*		3030	2.5	428	*	1.009-1.019	
Penta	PCB-84/92	1.55e+06	1.69	y 37:09	1.05	9260	*	*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	5.79e+04	1.19	n 37:21	1.13	319	R	*	2.5	*	0.996	0.991-1.001	

Analyst: DMS

Date: 3/26/15

Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1@20X

Filename: 150319E1 S:5 Acq:19-MAR-15 17:05:20
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.891

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	4.82e+06	1.65	y 37:32	1.10	27300		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.41	*		3030	2.5	479	*	1.002-1.012	
Penta	PCB-99	2.06e+06	1.65	y 37:52	1.34	9620		*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	1.64e+05	1.43	y 38:19	1.53	695		*	2.5	*	0.987	0.982-0.992	
Penta	PCB-108/112	2.32e+05	1.22	n 38:29	1.28	1170	R	*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.52	*		3030	2.5	397	*	0.990-1.000	
Penta	PCB-97	1.51e+06	1.62	y 38:51	1.18	8260		*	2.5	*	1.001	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	0.84	*		3030	2.5	716	*	0.999-1.009	
Penta	PCB-87/117/125	2.50e+06	1.73	y 39:08	1.55	10500		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	1.20e+05	1.37	y 39:16	1.63	474		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-85/116	1.06e+06	1.61	y 39:22	1.30	5260		*	2.5	*	1.014	1.010-1.020	
Penta	PCB-120	*	*	n NotF η	1.68	*		3030	2.5	360	*	1.016-1.026	
Penta	PCB-110	8.42e+06	1.60	y 39:46	1.56	35000		*	2.5	*	1.024	1.020-1.030	
Penta	PCB-82	7.77e+05	1.69	y 40:24	0.76	5610		*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	4.35e+05	1.64	y 41:05	1.47	1620		*	2.5	*	0.993	0.988-0.998	
Penta	PCB-107/109	6.01e+05	1.69	y 41:15	1.32	2490		*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	1.83e+05	1.58	y 41:24	1.17	860		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-106/118	9.05e+06	1.62	y 41:34	1.17	39100		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	3.38e+05	1.66	y 42:14	1.30	836		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	1.81e+05	1.33	y 42:21	1.12	517		*	2.5	*	1.003	0.999-1.009	
Penta	PCB-105	6.75e+06	1.65	y 43:05	1.30	18500		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.33	*		3260	2.5	291	*	0.996-1.006	
Penta	PCB-126	2.88e+05	1.53	y 45:19	1.18	865		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.11	*		1170	2.5	237	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.00	*		1170	2.5	264	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.12	*		1170	2.5	236	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.20	*		1170	2.5	219	*	1.055-1.065	
Hexa	PCB-136	6.13e+05	1.28	y 39:35	1.18	3810		*	2.5	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF η	0.74	*		1170	2.5	354	*	1.066-1.076	
Hexa	PCB-154	7.36e+04	1.06	y 40:11	0.86	628		*	2.5	*	1.084	1.080-1.090	
Hexa	PCB-151	9.22e+05	1.38	y 40:49	0.75	9040		*	2.5	*	1.101	1.097-1.107	
Hexa	PCB-135	5.56e+05	1.33	y 41:01	0.79	5130		*	2.5	*	1.107	1.103-1.113	
Hexa	PCB-144	2.16e+05	1.47	n 41:08	0.76	2080	R	*	2.5	*	1.110	1.105-1.117	
Hexa	PCB-147	6.04e+04	1.31	y 41:16	0.82	539		*	2.5	*	1.113	1.109-1.121	
Hexa	PCB-139/149	3.73e+06	1.24	y 41:31	0.76	35800		*	2.5	*	1.120	1.116-1.128	
Hexa	PCB-140	2.89e+04	1.02	n 41:43	0.72	293	R	*	2.5	*	1.125	1.121-1.133	
Hexa	PCB-134/143	4.95e+05	1.19	y 42:10	0.92	2400		*	2.5	*	0.975	0.970-0.980	

Analyst: *DMS*

Date: *3/26/15*

Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1@20X

Filename: 150319E1 S:5 Acq:19-MAR-15 17:05:20
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.891

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	2.63e+05	1.27	y 42:27	0.82	1430		*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.91	*		3230	2.5	452	*	0.981-0.991	
Hexa	PCB-146/165	1.66e+06	1.34	y 42:51	1.25	5920		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	3.35e+06	1.27	y 43:06	1.10	13500		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	1.14e+07	1.24	y 43:16	1.25	40600	R	*	2.5	*	1.001	0.995-1.005	
Hexa	PCB-168	*	*	n NotF η	1.45	*		3230	2.5	283	*	1.001-1.011	
Hexa	PCB-141	2.34e+06	1.23	y 43:59	1.09	10500		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-137	4.56e+05	1.29	y 44:21	1.06	2100		*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	7.38e+05	1.21	y 44:27	0.96	3730		*	2.5	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	1.48e+07	1.24	y 44:50	1.29	52000		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	1.77e+06	1.29	y 45:03	1.34	5990		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	5.13e+05	1.19	y 45:19	0.85	2720		*	2.5	*	1.012	1.007-1.017	
Hexa	PCB-166	6.32e+04	1.27	y 45:47	1.19	219		*	2.5	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.11	*		3230	2.5	349	*	0.996-1.006	
Hexa	PCB-128/162	2.02e+06	1.22	y 46:22	1.05	7930		*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	7.61e+05	1.09	y 46:47	1.20	2190		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	1.85e+06	1.26	y 48:05	1.14	5850		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-157	4.19e+05	1.40	y 48:21	1.16	1340		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.12	*		3230	2.5	271	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.58	*		2390	2.5	174	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.63	*		2390	2.5	168	*	1.006-1.016	
Hepta	PCB-179	1.17e+06	1.06	y 44:05	1.30	5720		*	2.5	*	1.029	1.024-1.034	
Hepta	PCB-176	4.09e+05	1.13	y 44:33	1.48	1760		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.45	*		2390	2.5	189	*	1.050-1.060	
Hepta	PCB-178	4.84e+05	1.27	n 45:39	1.03	2980	R	*	2.5	*	1.065	1.061-1.071	
Hepta	PCB-175	1.30e+05	1.04	y 46:00	1.01	817		*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	3.39e+06	1.06	y 46:10	1.25	17200		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	1.65e+06	1.14	y 46:30	1.21	8680		*	2.5	*	1.085	1.081-1.091	
Hepta	PCB-185	3.09e+05	1.01	y 47:09	1.80	1260		*	2.5	*	0.956	0.951-0.961	
Hepta	PCB-174	2.90e+06	1.00	y 47:31	1.38	15500		*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.38	*		2390	2.5	226	*	0.960-0.970	
Hepta	PCB-177	1.58e+06	1.12	y 47:47	1.26	9260		*	2.5	*	0.969	0.963-0.973	
Hepta	PCB-171	7.38e+05	1.03	y 48:05	1.58	3430		*	2.5	*	0.975	0.970-0.980	
Hepta	PCB-173	4.41e+04	1.05	y 48:30	1.11	293		*	2.5	*	0.983	0.978-0.988	
Hepta	PCB-172	5.44e+05	1.15	y 48:57	1.63	2450		*	2.5	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*		2390	2.5	179	*	0.991-1.001	
Hepta	PCB-180	7.52e+06	1.05	y 49:21	1.34	41200		*	2.5	*	1.000	0.995-1.005	

Analyst: Dms

Date: 3/26/15

Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1@20X

Filename: 150319E1 S:5 Acq:19-MAR-15 17:05:20
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.891

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	4.45e+05	1.06	y 49:34	1.72	1910	*	2.5	*	*	1.005	0.999-1.009	
Hepta	PCB-191	1.74e+05	0.93	y 49:49	1.69	758	*	2.5	*	*	1.010	1.004-1.014	
Hepta	PCB-170	*	*	n NotF η	1.60	16809 *	*	2.5	*	*	*	0.995-1.005	
Hepta	PCB-190	*	*	n NotF η	2.21	3140 *	*	2.5	*	*	*	0.998-1.008	
Hepta	PCB-189	1.96e+05	0.90	y 52:21	1.55	927	*	2.5	*	*	1.000	0.995-1.005	
Octa	PCB-202	2.36e+05	0.97	y 48:16	1.08	1530	*	2.5	*	*	1.000	0.995-1.005	
Octa	PCB-201	1.81e+05	0.89	y 48:46	1.15	1100	*	2.5	*	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.14	*	2080	2.5	297	*	*	1.008-1.018	
Octa	PCB-197	5.40e+04	0.92	y 49:13	1.07	352	*	2.5	*	*	1.020	1.015-1.025	
Octa	PCB-200	1.52e+05	0.87	y 50:06	1.06	998	*	2.5	*	*	1.038	1.032-1.044	
Octa	PCB-198	4.56e+04	1.06	n 51:26	0.76	422	R	2.5	*	*	1.066	1.059-1.069	
Octa	PCB-199	1.08e+06	0.90	y 51:33	0.80	9510	*	2.5	*	*	1.068	1.061-1.071	
Octa	PCB-196/203	1.31e+06	0.89	y 51:49	0.80	11400	*	2.5	*	*	1.074	1.066-1.076	
Octa	PCB-195	7.39e+05	1.02	y 52:59	1.23	3080	*	2.5	*	*	0.984	0.979-0.989	
Octa	PCB-194	2.18e+06	0.91	y 53:50	1.21	9210	*	2.5	*	*	1.000	0.995-1.005	
Octa	PCB-205	1.52e+05	0.92	y 54:07	1.54	504	*	2.5	*	*	1.005	1.001-1.011	
Nona	PCB-208	2.62e+05	1.47	y 53:08	0.93	1250	*	2.5	*	*	1.000	0.995-1.005	
Nona	PCB-207	1.11e+05	1.54	y 53:26	1.08	458	*	2.5	*	*	1.006	1.001-1.011	
Nona	PCB-206	7.03e+05	1.49	y 55:29	1.02	4250	*	2.5	*	*	1.000	0.995-1.005	
Deca	PCB-209	1.84e+05	1.14	y 56:51	1.17	1020	*	2.5	*	*	1.000	0.995-1.005	

* See ORIGINAL INJECTION

Analyst: DMS

Date: 3/26/15

Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1@20X

Filename: 150319E1 S:5 Acq:19-MAR-15 17:05:20
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.8909 EndCAL: NA

ConCal: ST150319E1-1

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	*	* n	NotFnd	1.27	*
Total Di-PCB	3.88e+06	1.52 y	22:58	1.21	6194.83
Total Tri-PCB	3.02e+06	1.10 y	25:54	1.10	8036.23
Total Tri-PCB	1.94e+07	1.14 y	28:31	1.21	32108.6 Sum:40144.8
Total Tetra-PCB	4.87e+07	0.82 y	29:49	1.09	132735
Total Penta-PCB	3.64e+07	1.64 y	35:51	1.18	172794
Total Penta-PCB	7.55e+06	1.66 y	42:14	1.25	20703.3 Sum:193498
Total Hexa-PCB	5.95e+06	1.28 y	39:35	0.90	54948.8
Total Hexa-PCB	4.29e+07	1.19 y	42:10	1.11	158427 Sum:213376
Total Hepta-PCB	2.12e+07	1.06 y	44:05	1.42	111183 + 19981.6 = 131164.6
Total Octa-PCB	3.02e+06	0.97 y	48:16	0.96	24914.2
Total Octa-PCB	3.07e+06	1.02 y	52:59	1.33	12803.8 Sum:37718.0
Total Nona-PCB	1.08e+06	1.47 y	53:08	1.01	5963.19
Total Deca-PCB	1.84e+05	1.14 y	56:51	1.17	1021.11

** see original injection*

Total PCB Conc: ~~749581.343157 + 19981.6 = 769562.94~~
762000

Integrations
by
Analyst: DMS
Date: 3/26/15

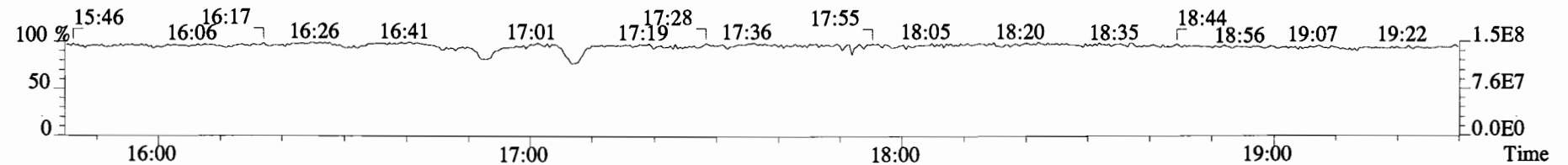
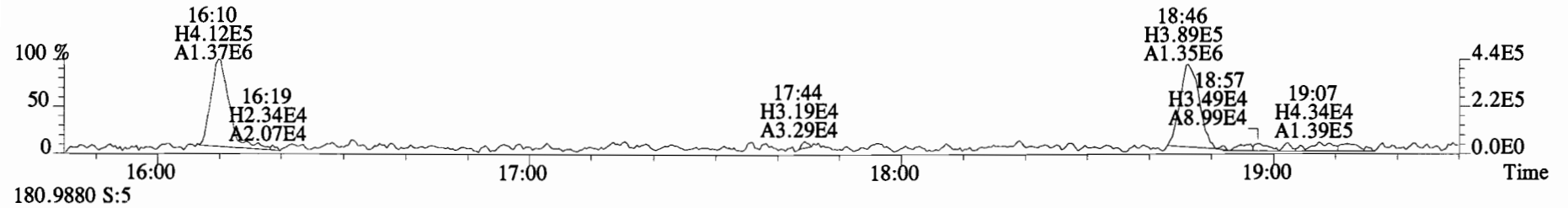
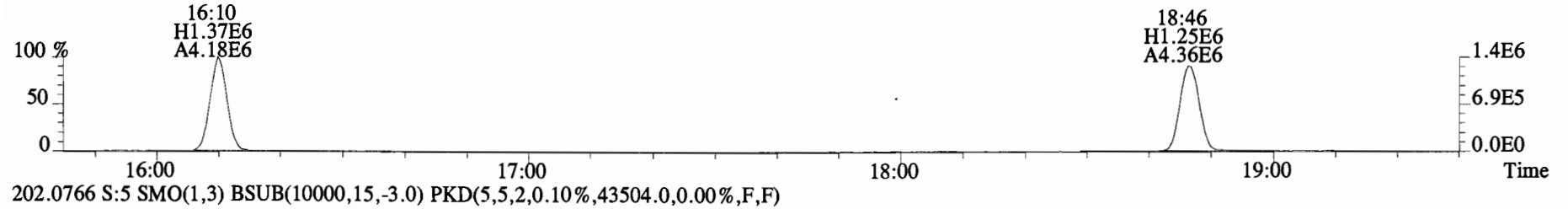
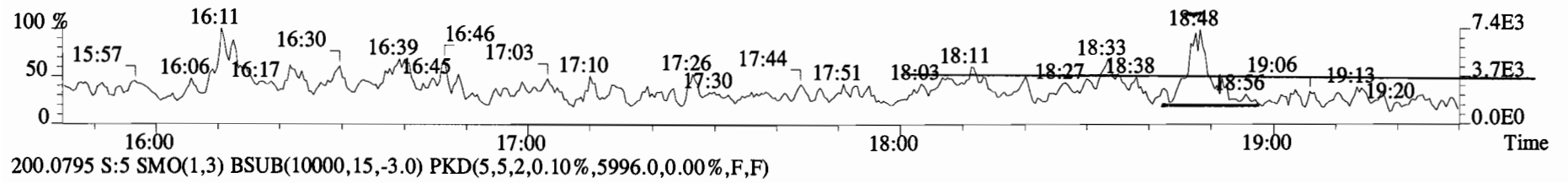
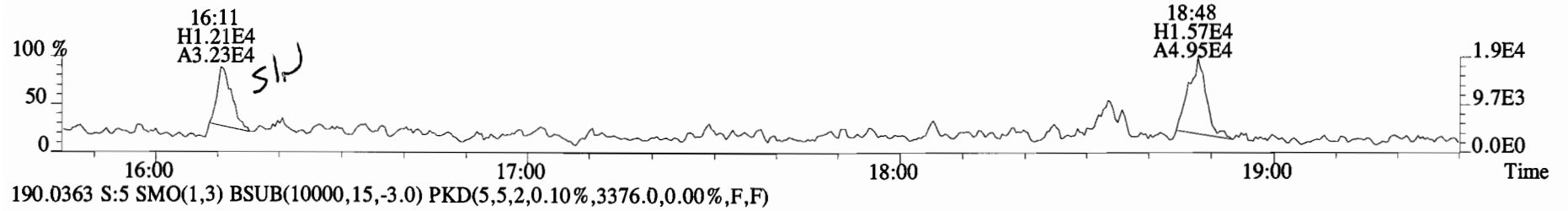
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-1	5.55e+06	3.06	y	0.87	16:10	0.623	0.629-0.635	10800	103												
13C-PCB-3	5.71e+06	3.22	y	0.91	18:47	0.723	0.725-0.733	10700	101		13C-PCB-79	4.18e+06	0.84	y	1.02	37:50	1.029	1.023-1.034	10500	99.1	
13C-PCB-4	3.65e+06	1.47	y	0.59	20:06	0.774	0.775-0.783	10600	100		13C-PCB-178	1.24e+06	0.45	y	0.61	45:38	0.985	0.979-0.990	10500	99.2	
13C-PCB-9	5.56e+06	1.53	y	0.90	21:53	0.843	0.842-0.850	10600	100.0												
13C-PCB-11	5.76e+06	1.67	y	0.94	25:16	0.973	0.968-0.978	10500	98.9												
13C-PCB-19	3.21e+06	1.17	y	0.53	24:15	0.934	0.930-0.940	10300	97.4												
13C-PCB-28	5.01e+06	1.02	y	0.93	29:07	1.003	0.999-1.009	10500	99.1		13C-PCB-79	4.18e+06	0.84	y	1.10	37:50	0.969	0.964-0.974	10300	97.4	
13C-PCB-32	4.53e+06	0.93	y	0.80	27:10	1.046	1.040-1.050	9710	91.8		13C-PCB-178	1.24e+06	0.45	y	0.90	45:38	0.925	0.920-0.930	10200	96.2	
13C-PCB-37	4.72e+06	0.94	y	0.84	32:59	1.137	1.131-1.143	11000	104												
13C-PCB-47	3.28e+06	0.77	y	0.81	32:02	0.871	0.866-0.874	10300	97.2												
13C-PCB-52	3.01e+06	0.76	y	0.77	31:32	0.857	0.853-0.861	9940	94.0												
13C-PCB-54	3.68e+06	0.78	y	0.97	27:59	0.761	0.758-0.766	9660	91.3												
13C-PCB-70	4.02e+06	0.76	y	1.00	35:32	0.966	0.961-0.971	10300	97.0												
13C-PCB-77	3.97e+06	0.73	y	0.94	39:39	1.078	1.073-1.083	10700	102												
13C-PCB-80	4.36e+06	0.86	y	1.03	35:58	0.978	0.972-0.982	10800	102												
13C-PCB-81	3.89e+06	0.85	y	0.92	39:03	1.062	1.057-1.067	10800	102												
13C-PCB-95	1.63e+06	1.74	y	0.74	35:50	0.913	0.908-0.918	10800	102												
13C-PCB-97	1.63e+06	1.50	y	0.70	38:49	0.989	0.984-0.994	11400	108												
13C-PCB-101	1.70e+06	1.78	y	0.78	37:31	0.955	0.951-0.961	10600	101		13C-PCB-15	6.20e+06	1.65	y	1.00	25:58			10600		
13C-PCB-104	2.25e+06	1.58	y	1.00	32:41	0.832	0.828-0.836	11000	104		13C-PCB-31	5.42e+06	0.99	y	1.00	29:01			10600		
13C-PCB-105	2.97e+06	1.59	y	1.37	43:05	0.930	0.924-0.934	11300	107		13C-PCB-60	4.15e+06	0.81	y	1.00	36:47			10600		
13C-PCB-114	3.30e+06	1.58	y	1.36	42:13	0.911	0.905-0.915	12600	119		13C-PCB-111	2.15e+06	1.66	y	1.00	39:16			10600		
13C-PCB-118	2.09e+06	1.69	y	0.96	41:34	1.059	1.054-1.064	10700	101		13C-PCB-128	2.04e+06	1.31	y	1.00	46:21			10600		
13C-PCB-123	1.93e+06	1.54	y	0.89	41:23	1.054	1.050-1.060	10600	100		13C-PCB-205	2.59e+06	0.88	y	1.00	54:07			10600		
13C-PCB-126	2.98e+06	1.73	y	1.31	45:19	0.978	0.972-0.982	11800	112												
13C-PCB-127	3.08e+06	1.61	y	1.47	43:26	0.937	0.931-0.941	10800	102												
13C-PCB-138	2.34e+06	1.28	y	1.10	44:48	0.967	0.961-0.971	11000	104												
13C-PCB-141	2.17e+06	1.20	y	1.07	43:58	0.949	0.943-0.953	10500	98.9												
13C-PCB-153	2.38e+06	1.23	y	1.15	43:14	0.933	0.927-0.937	10800	102												
13C-PCB-155	1.45e+06	1.39	y	0.84	37:04	0.944	0.939-0.949	8450	79.9												
13C-PCB-156	2.94e+06	1.31	y	1.30	48:03	1.037	1.032-1.042	11800	111												
13C-PCB-157	2.84e+06	1.35	y	1.36	48:20	1.043	1.038-1.048	10900	103												
13C-PCB-159	2.58e+06	1.29	y	1.25	46:06	0.995	0.989-0.999	10700	101												
13C-PCB-167	3.06e+06	1.33	y	1.35	46:47	1.009	1.004-1.014	11800	111												
13C-PCB-169	2.85e+06	1.24	y	1.29	50:29	1.089	1.083-1.093	11500	109												
13C-PCB-170	9.68e+05	0.54	n	0.54	50:50	1.097	1.089-1.101	9260	109												
13C-PCB-180	1.44e+06	0.49	y	0.68	49:20	1.064	1.060-1.070	10900	103												
13C-PCB-188	1.66e+06	0.50	y	0.92	42:51	0.924	0.919-0.929	9400	88.8												
13C-PCB-189	1.44e+06	0.47	y	0.72	52:20	1.129	1.120-1.132	10400	98.8												
13C-PCB-194	2.07e+06	1.01	y	0.80	53:50	0.995	0.990-1.000	10600	100												
13C-PCB-202	1.51e+06	0.86	y	0.84	48:16	1.041	1.036-1.046	9360	88.5												
13C-PCB-206	1.71e+06	0.74	y	0.65	55:28	1.025	1.021-1.031	10700	102												
13C-PCB-208	2.37e+06	0.77	y	1.08	53:07	0.982	0.976-0.986	8960	84.7												
13C-PCB-209	1.63e+06	1.33	y	0.61	56:50	1.050	1.045-1.055	10900	103												

(87.5) 114 see original injection

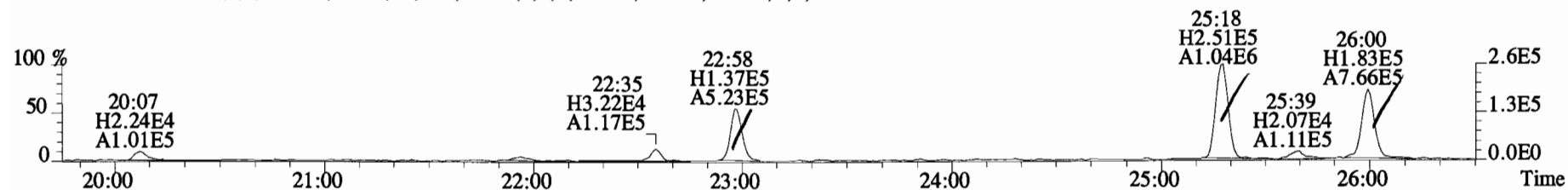
Analyst: Dms

Date: 3/26/15

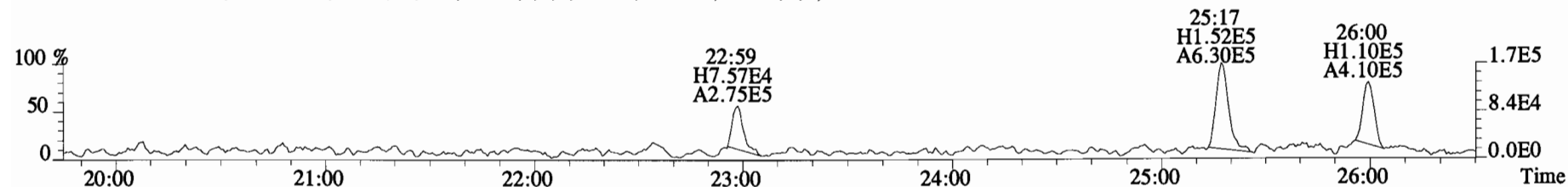
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 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 188.0393 S:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4704.0,0.00%,F,F)



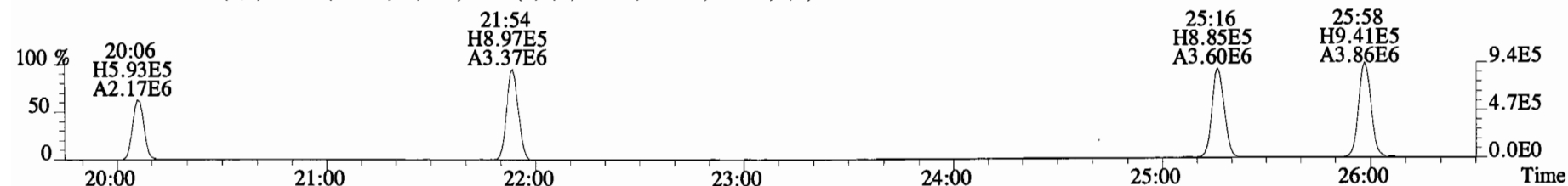
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 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3880.0,0.00%,F,F)



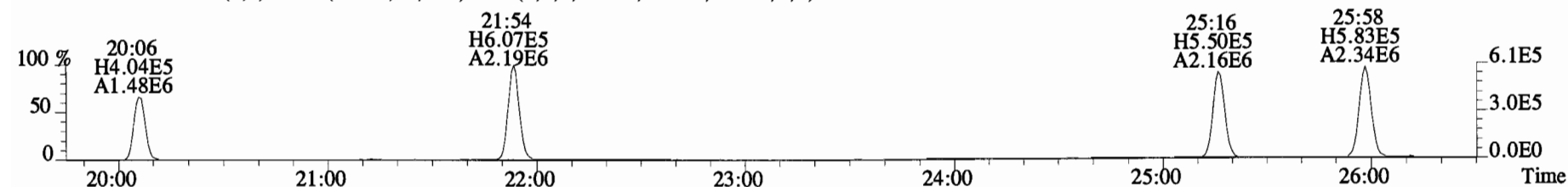
223.9974 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,18760.0,0.00%,F,F)



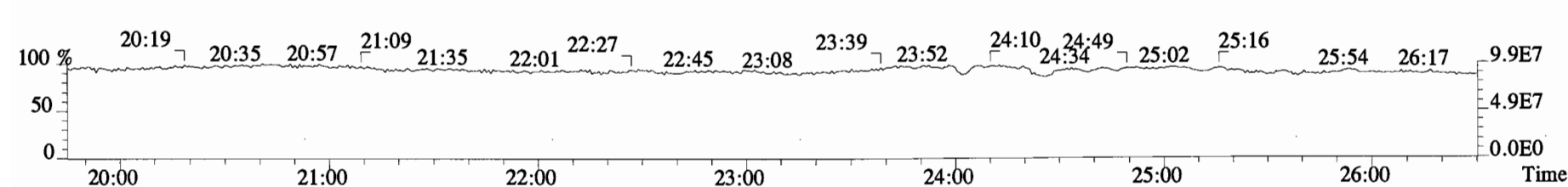
234.0406 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3092.0,0.00%,F,F)



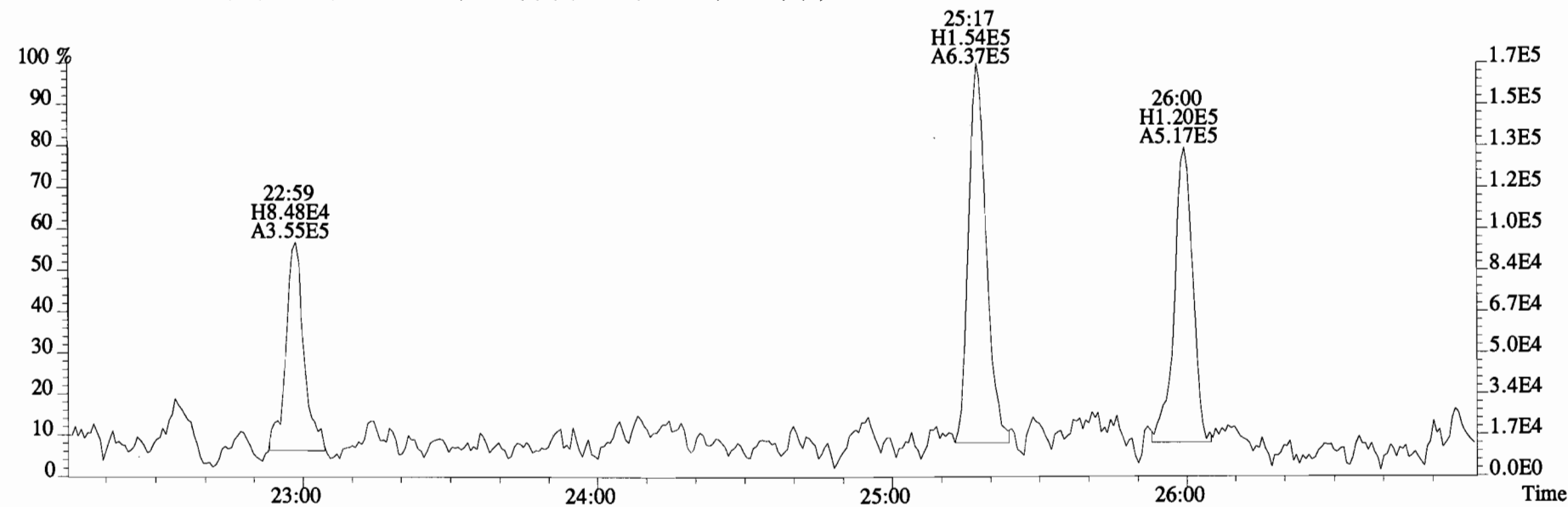
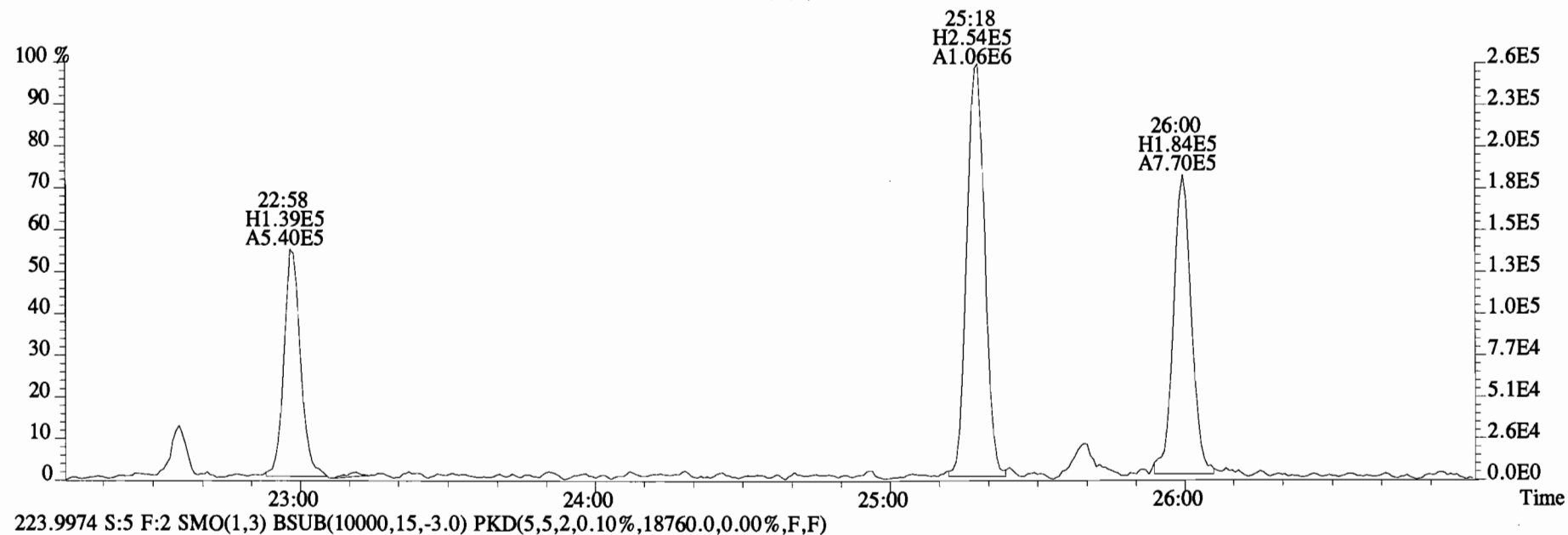
236.0376 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2616.0,0.00%,F,F)



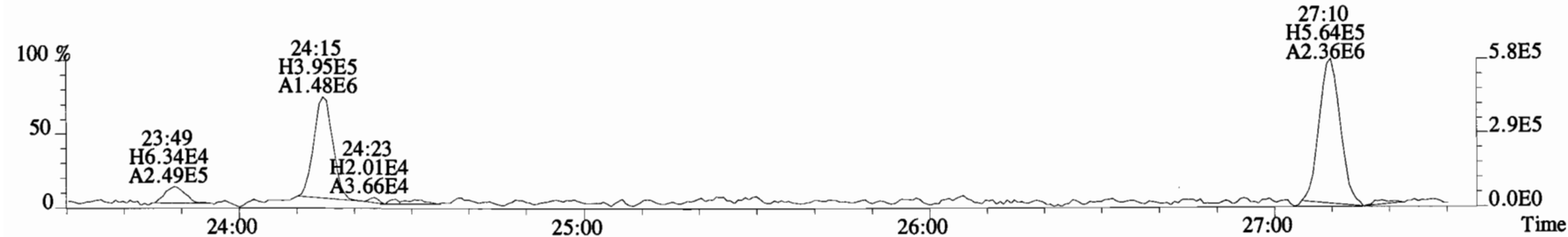
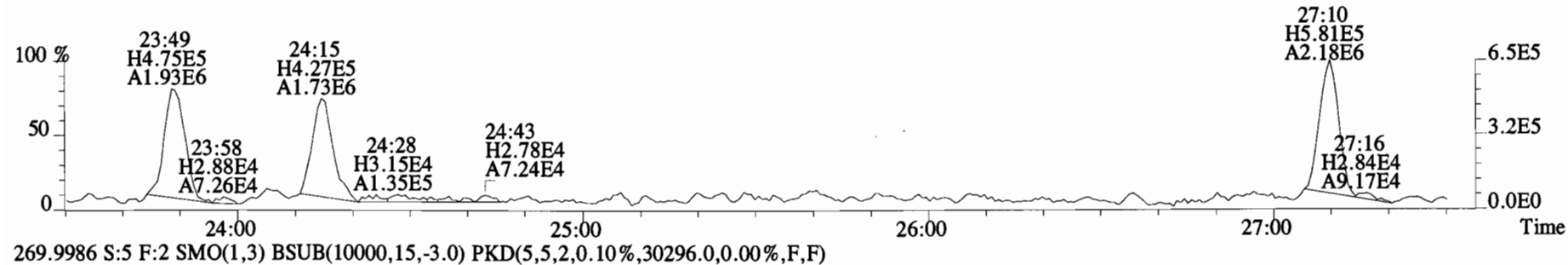
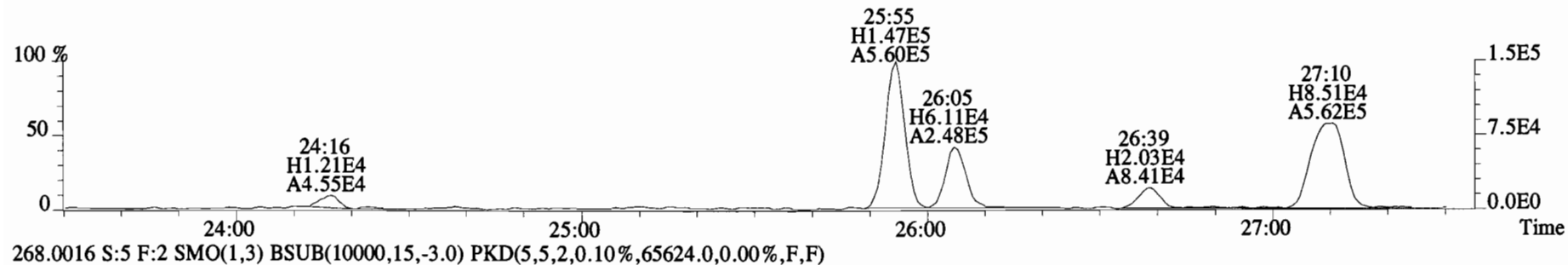
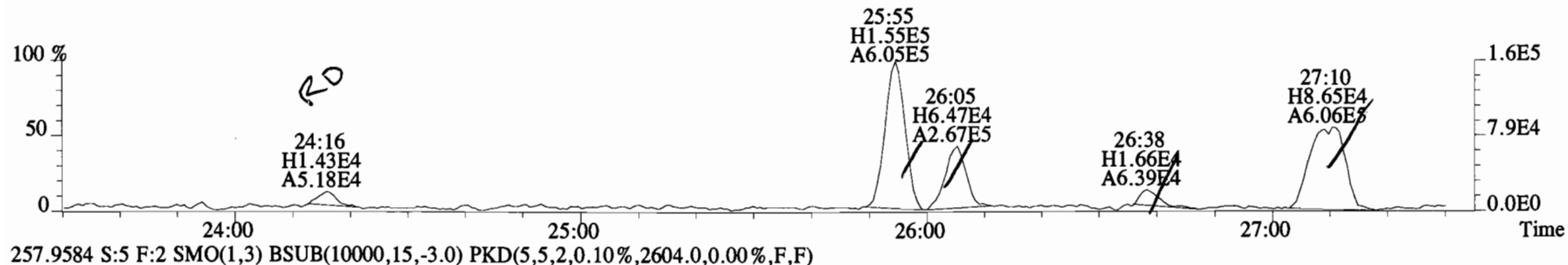
230.9856 S:5 F:2



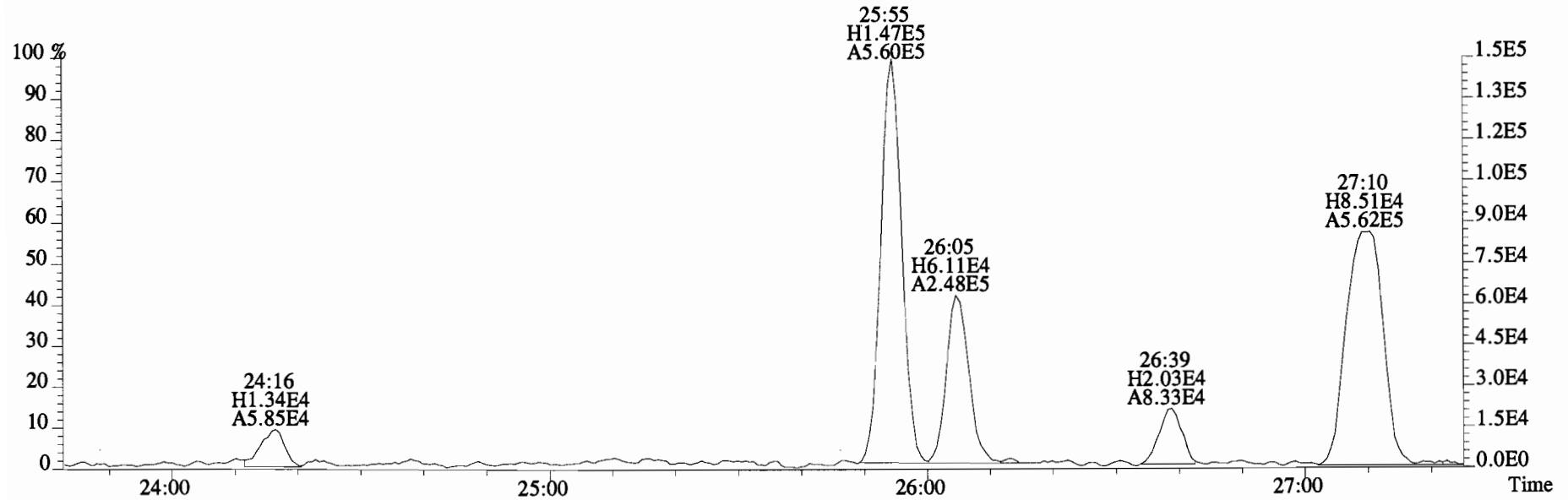
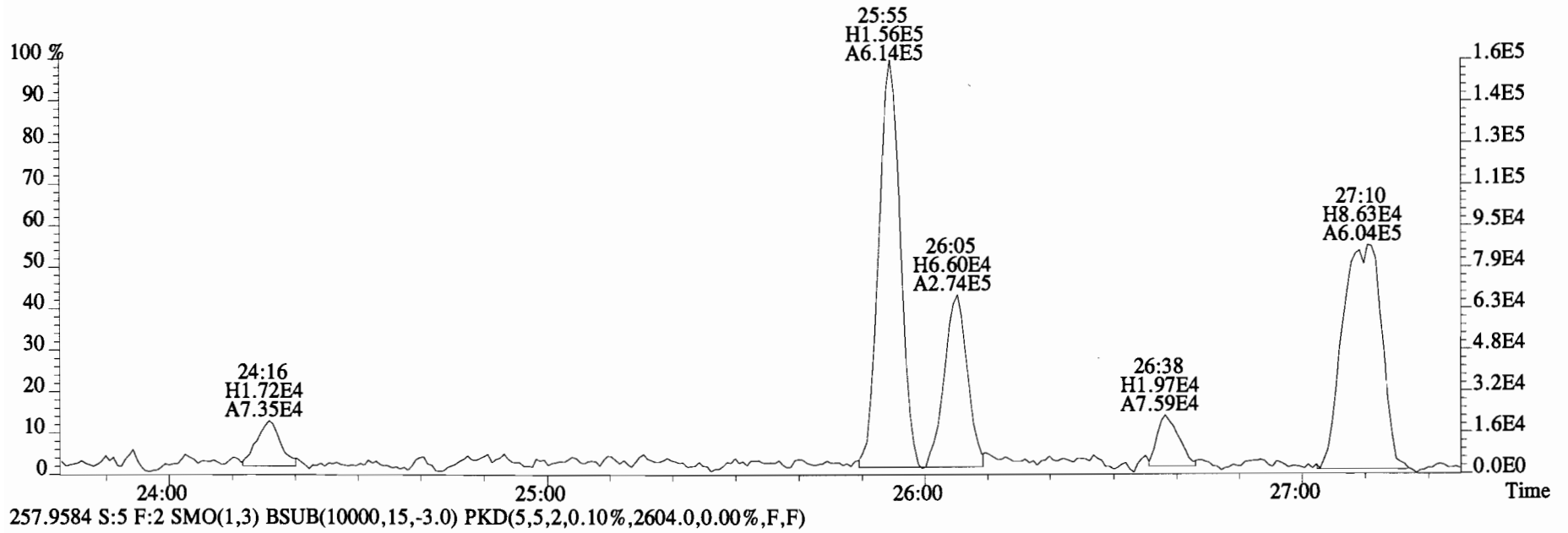
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222.0003 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3880.0,0.00%,F,F)



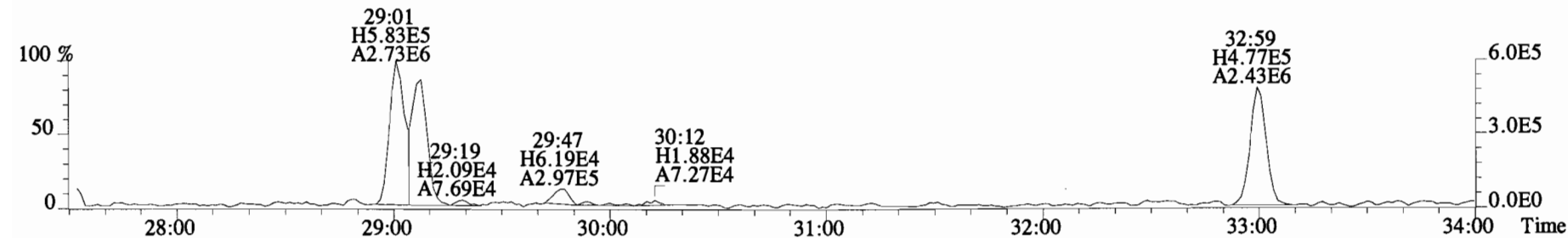
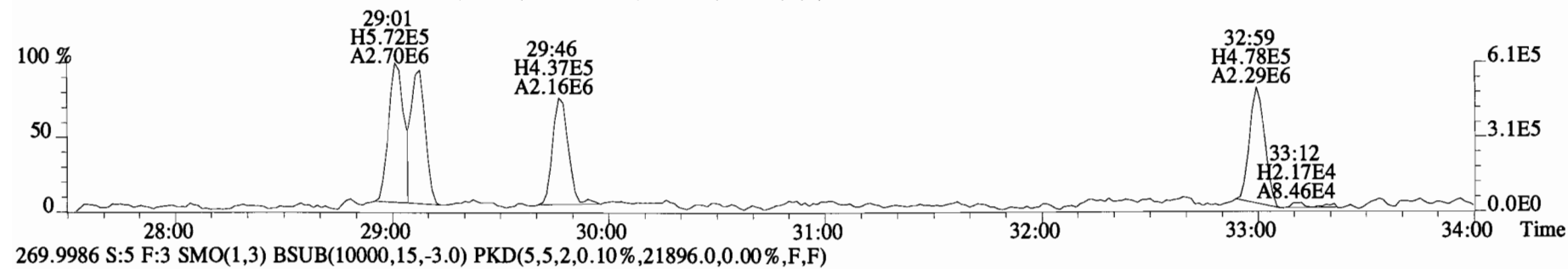
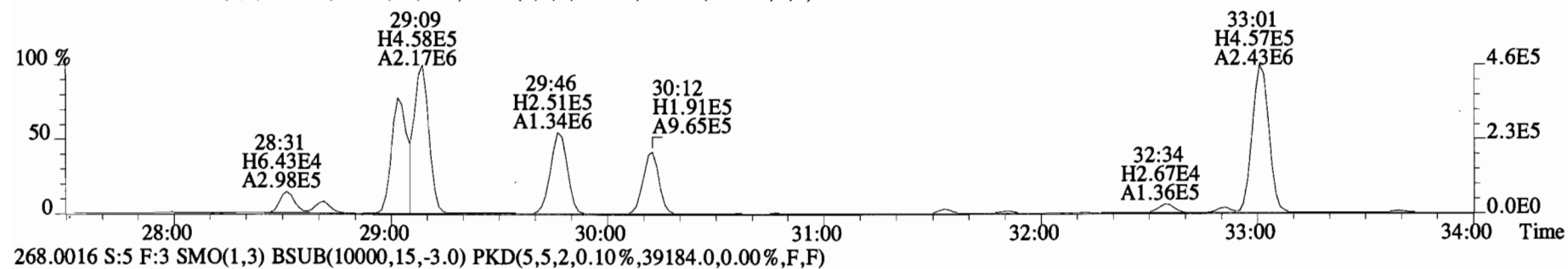
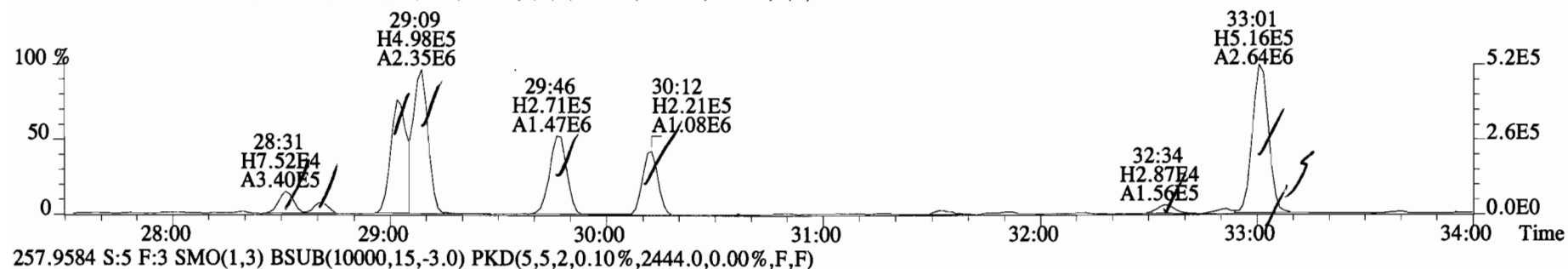
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 255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5748.0,0.00%,F,F)



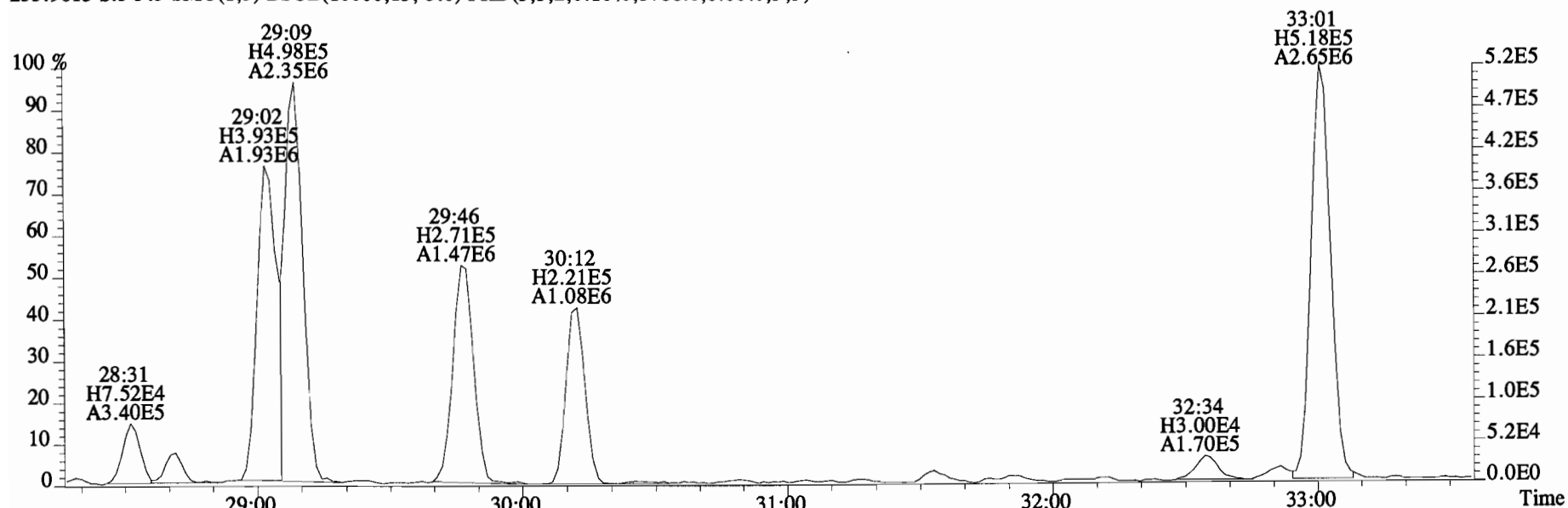
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255.9613 S:5 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5748.0,0.00%,F,F)



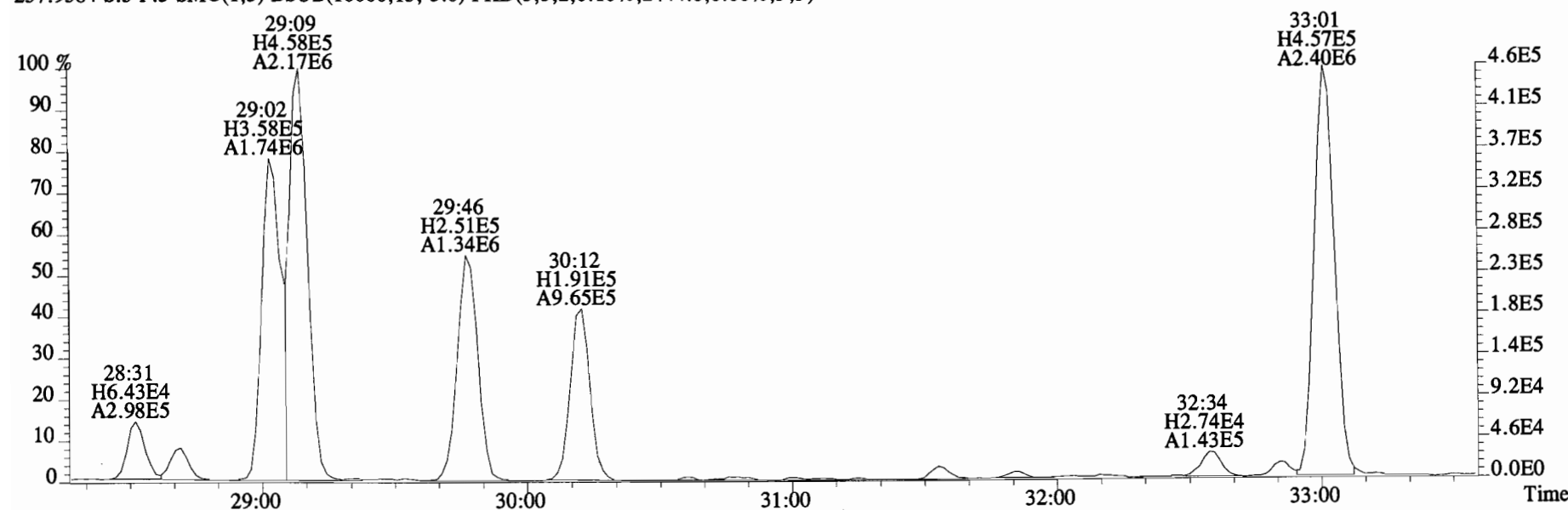
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5788.0,0.00%,F,F)



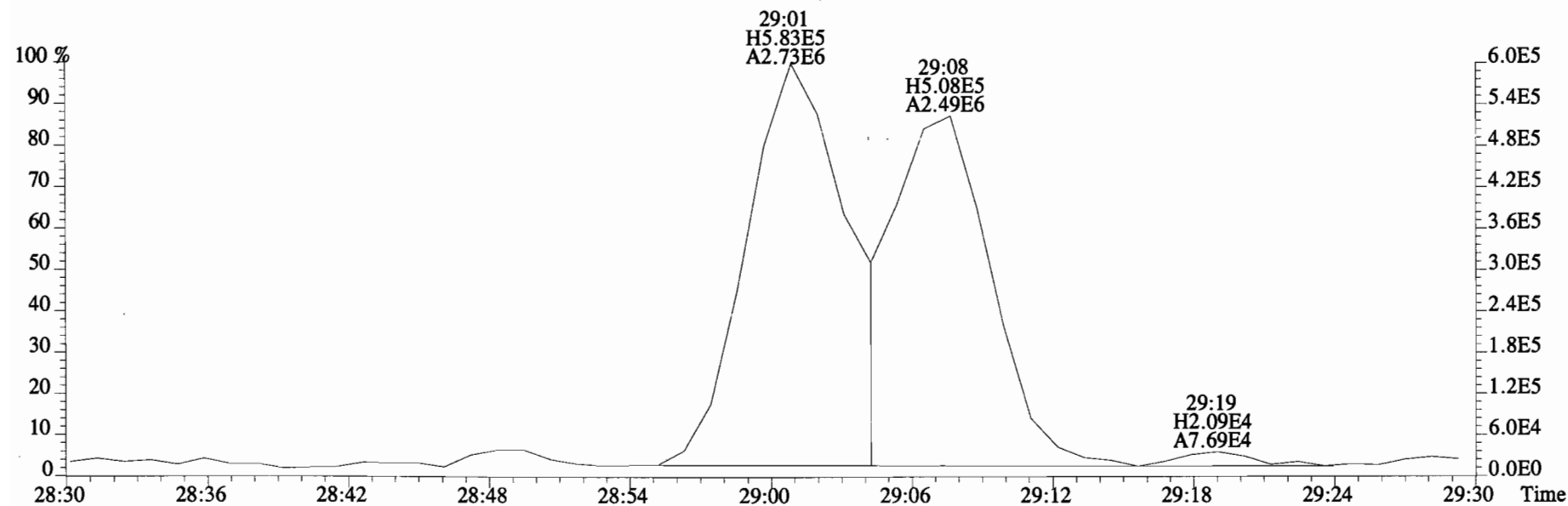
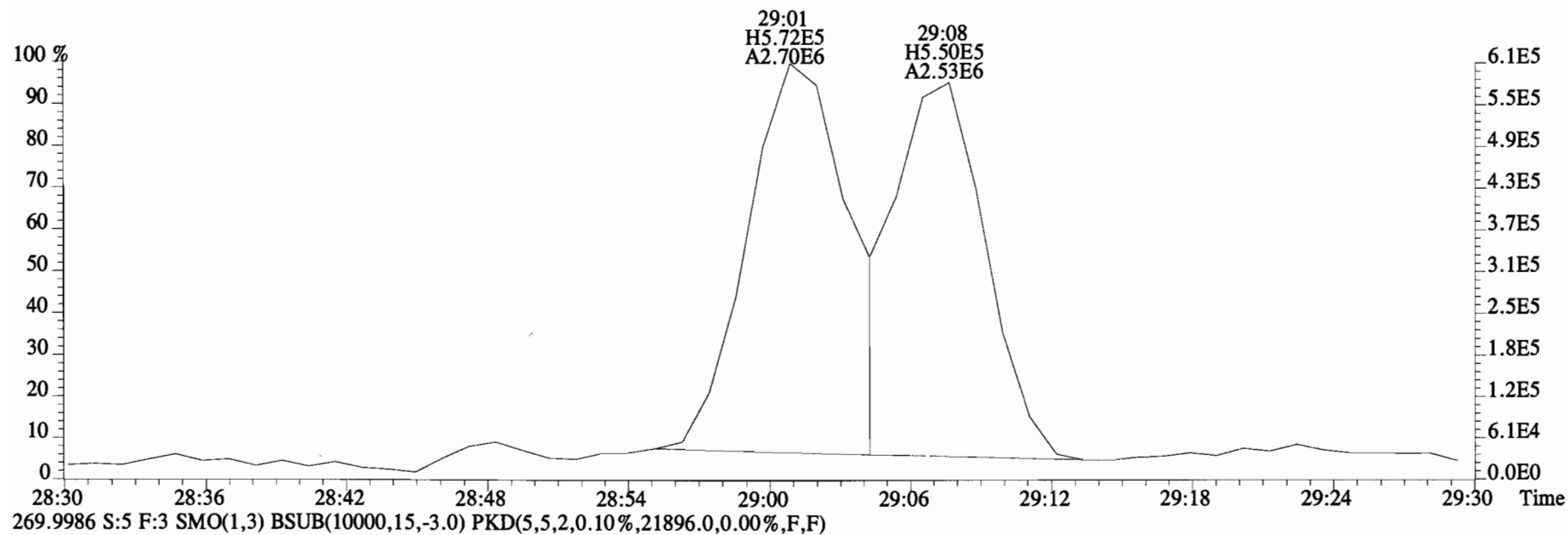
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 255.9613 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5788.0,0.00%,F,F)



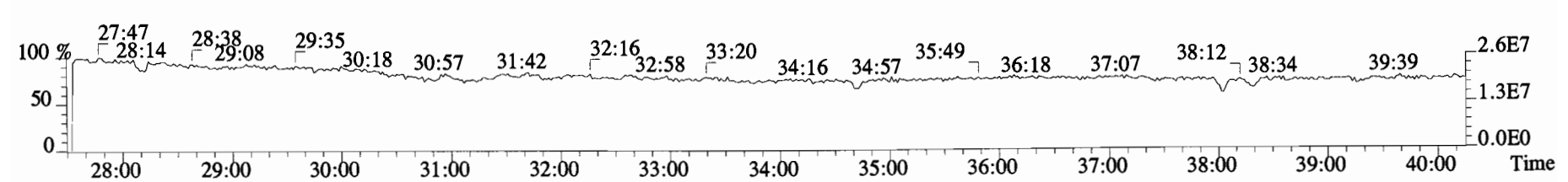
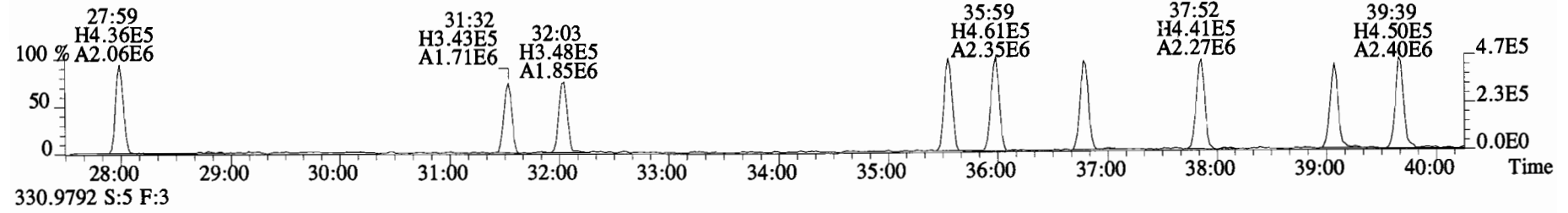
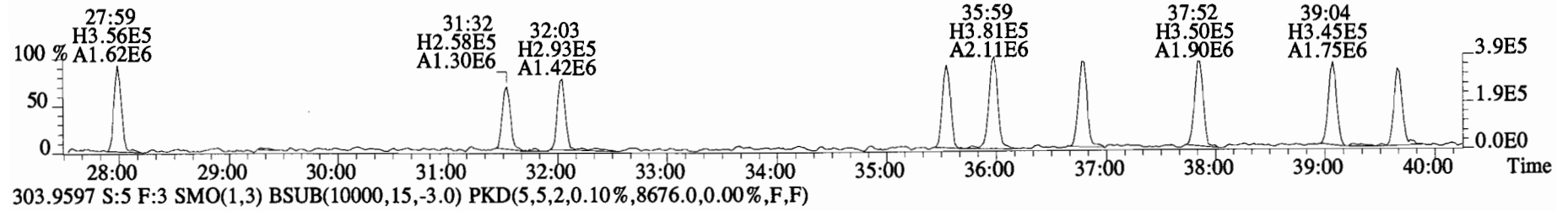
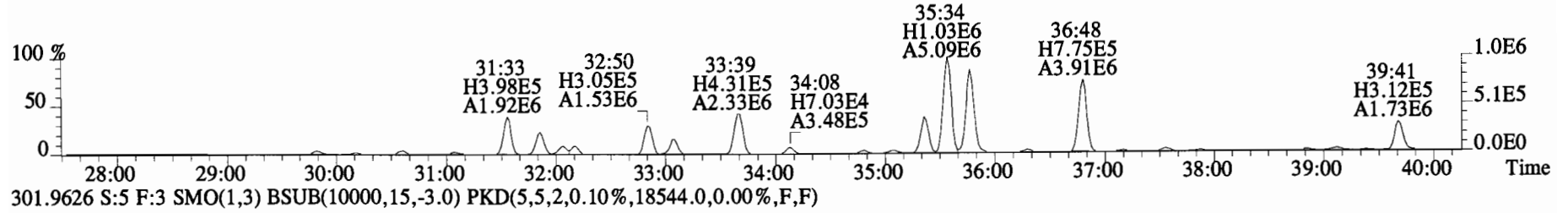
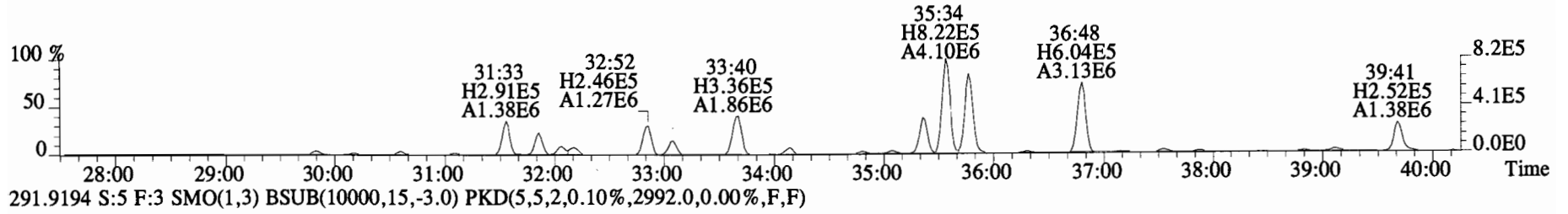
257.9584 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2444.0,0.00%,F,F)



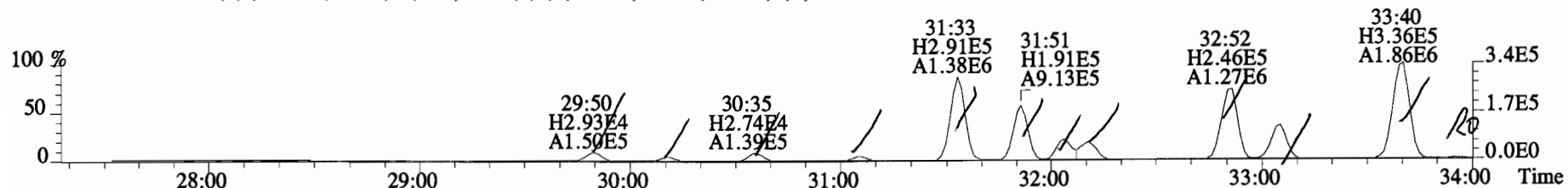
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
268.0016 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,39184.0,0.00%,F,F)



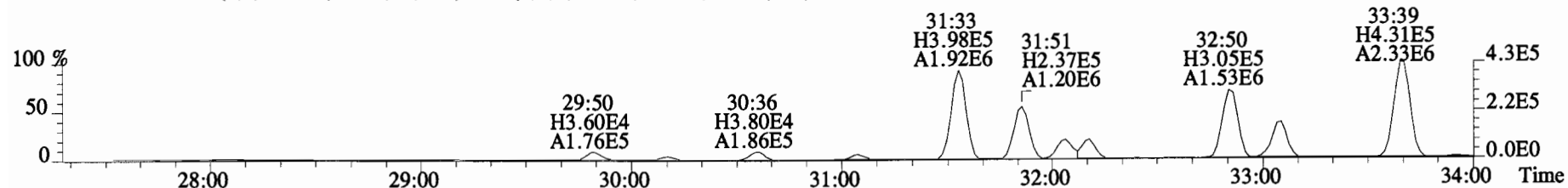
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3004.0,0.00%,F,F)



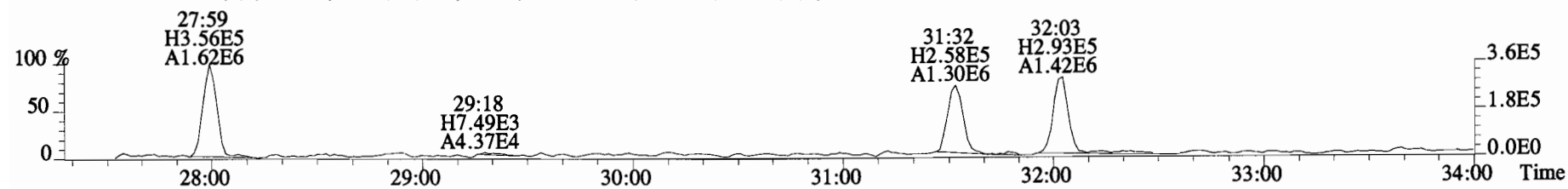
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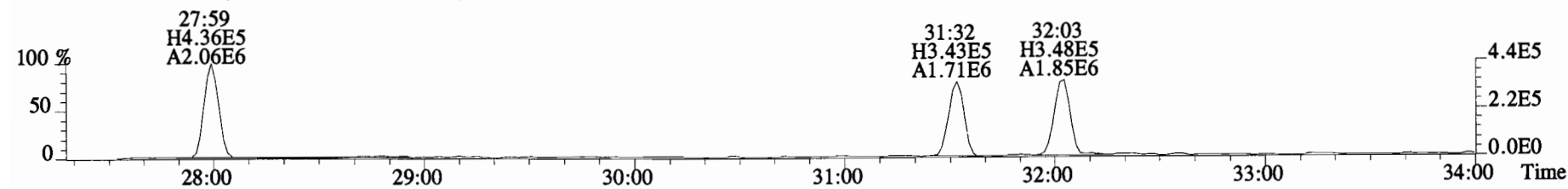
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2992.0,0.00%,F,F)



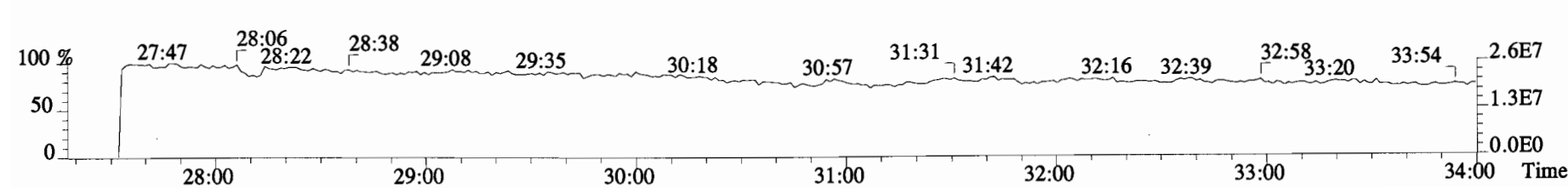
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,18544.0,0.00%,F,F)



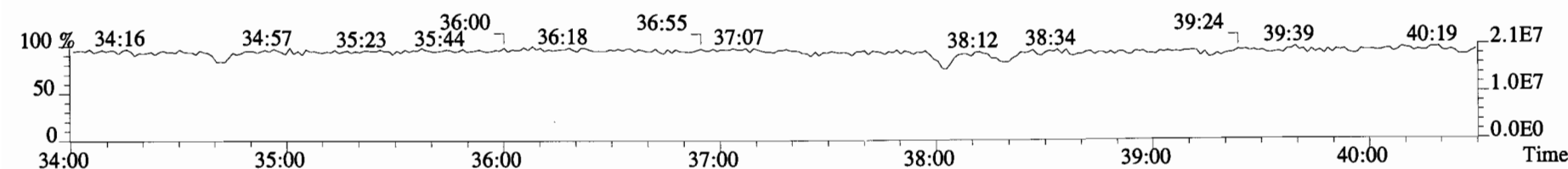
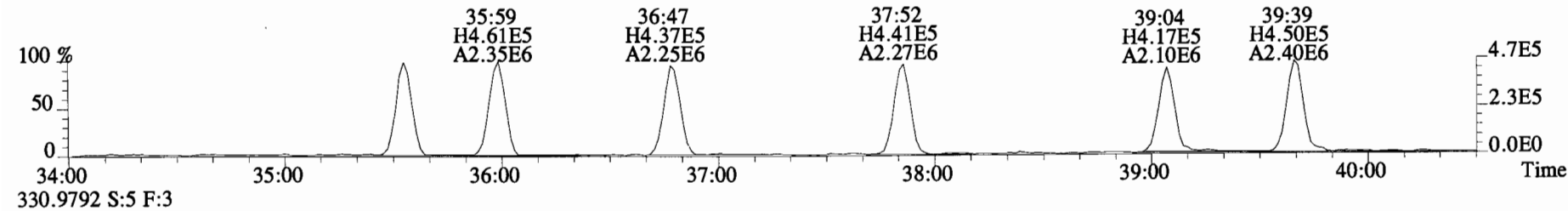
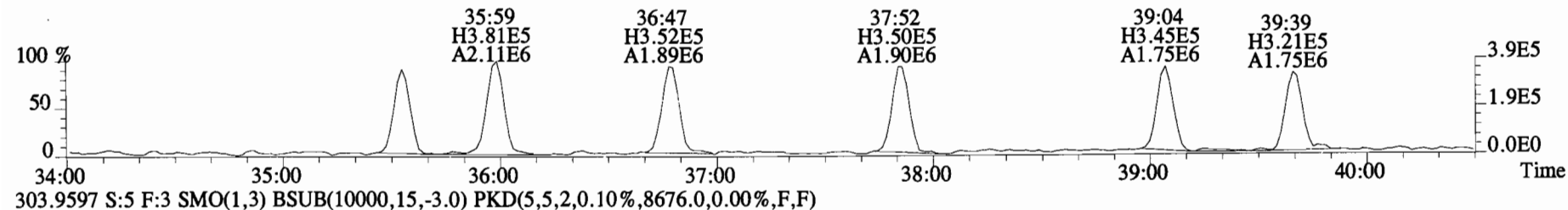
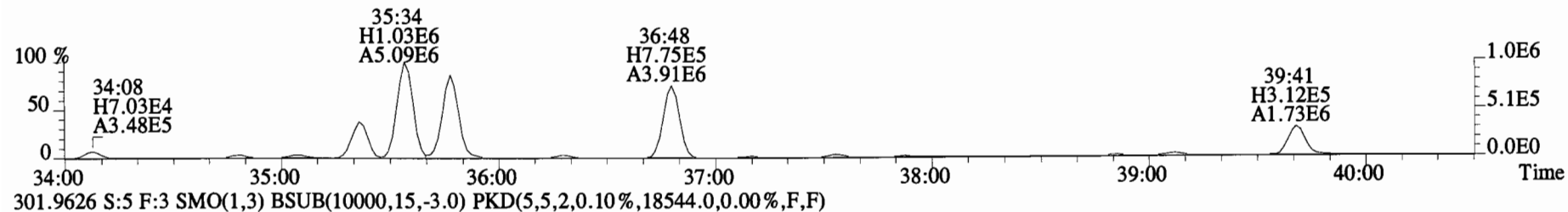
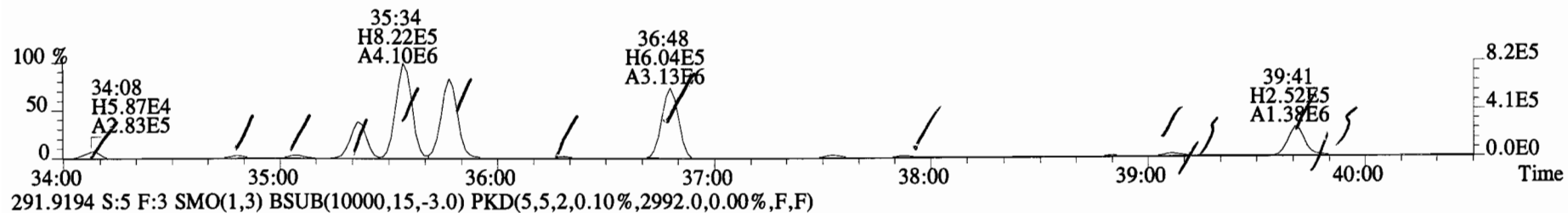
303.9597 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8676.0,0.00%,F,F)



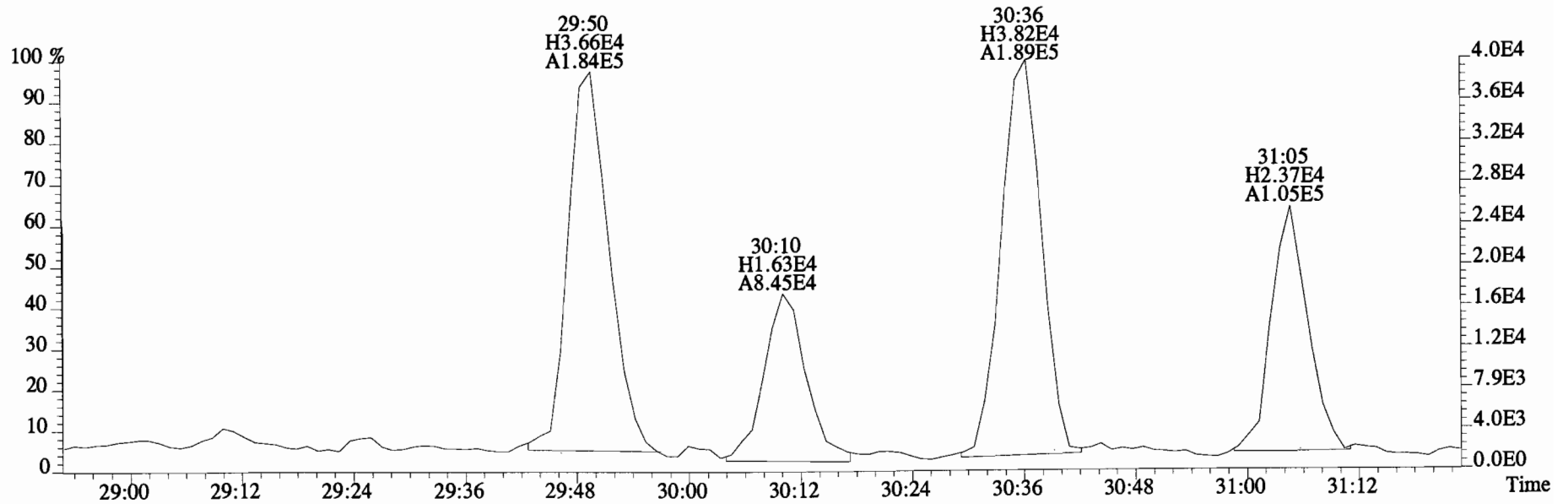
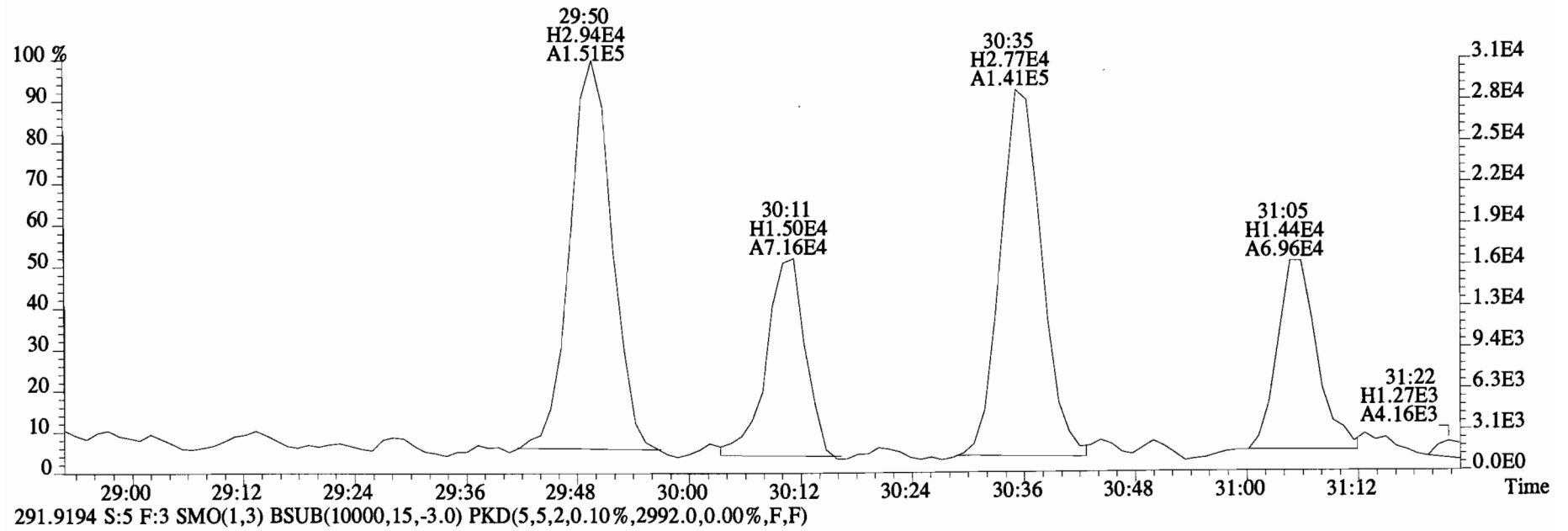
330.9792 S:5 F:3



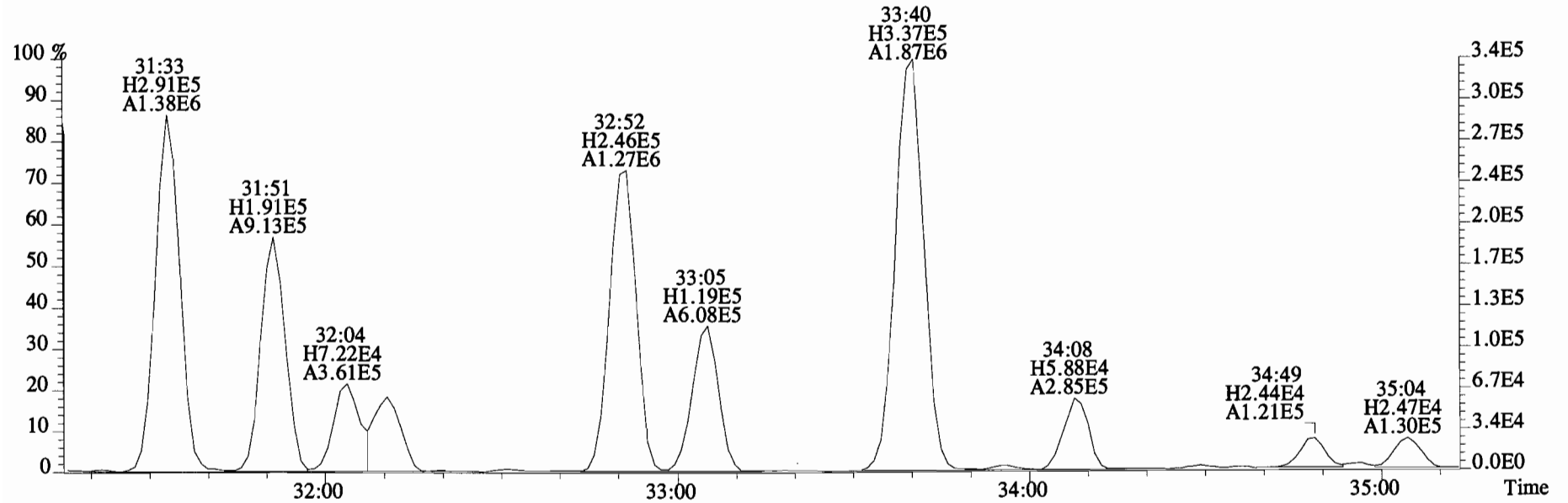
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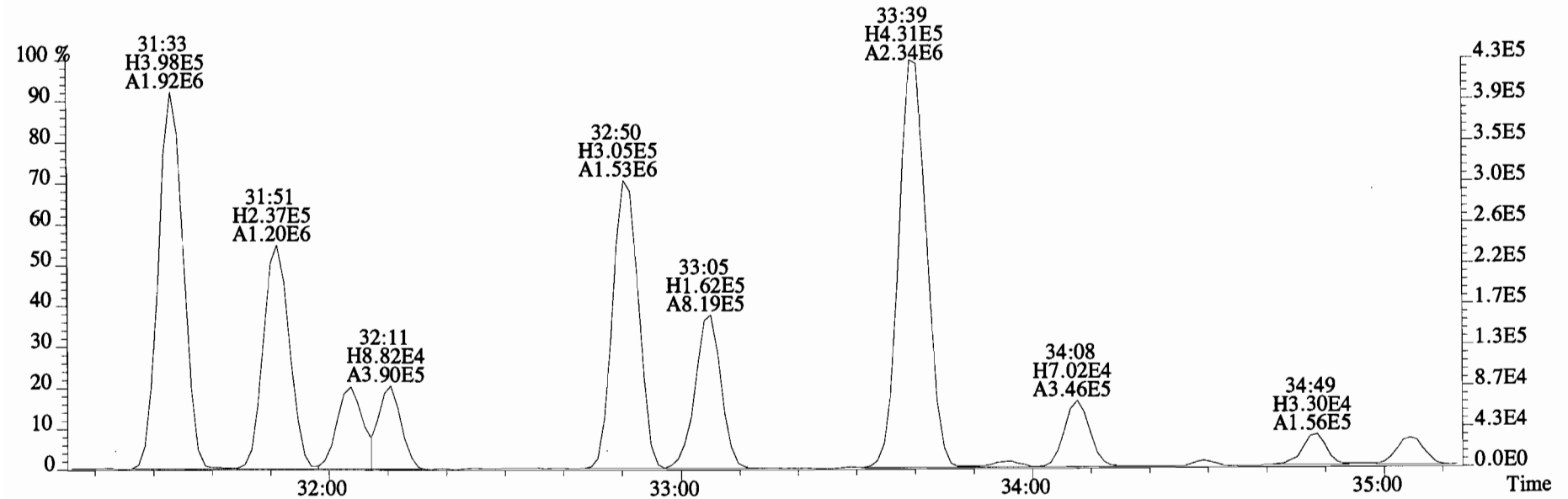
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
289.9224 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3004.0,0.00%,F,F)



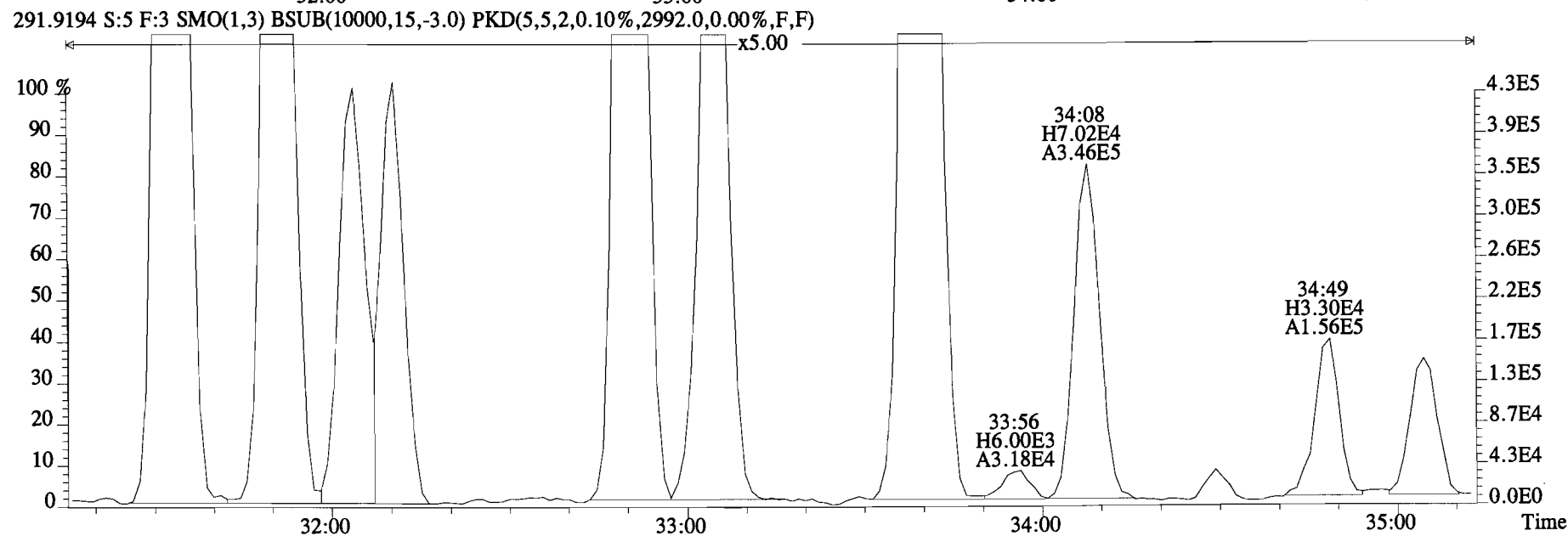
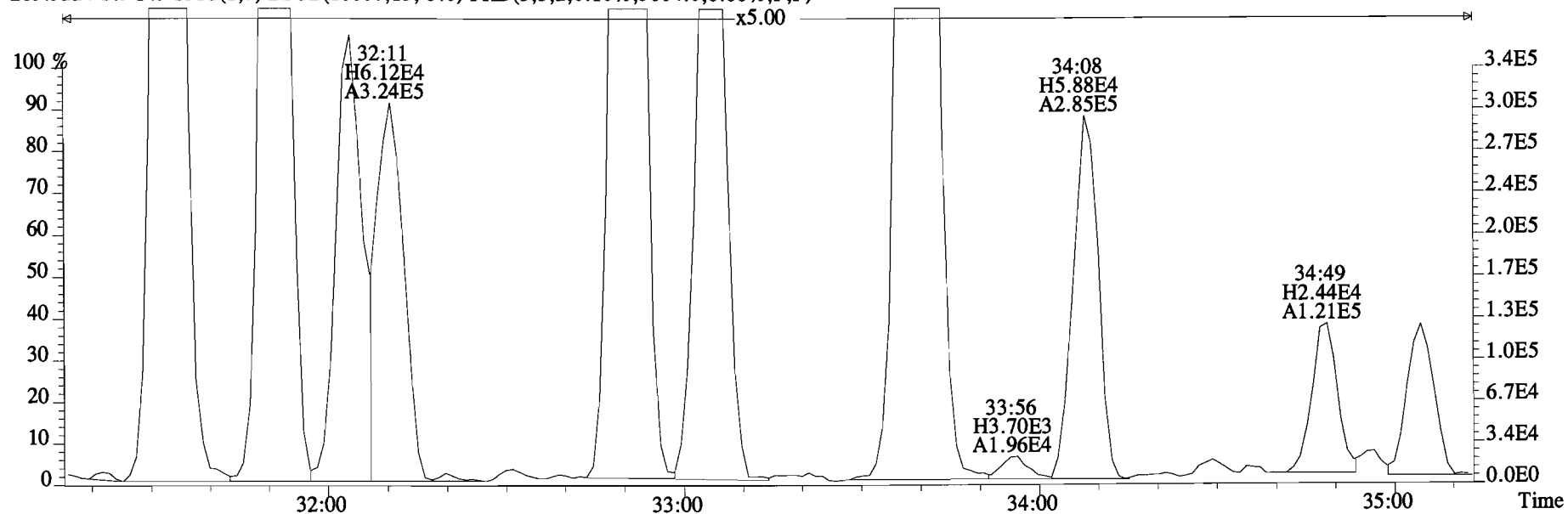
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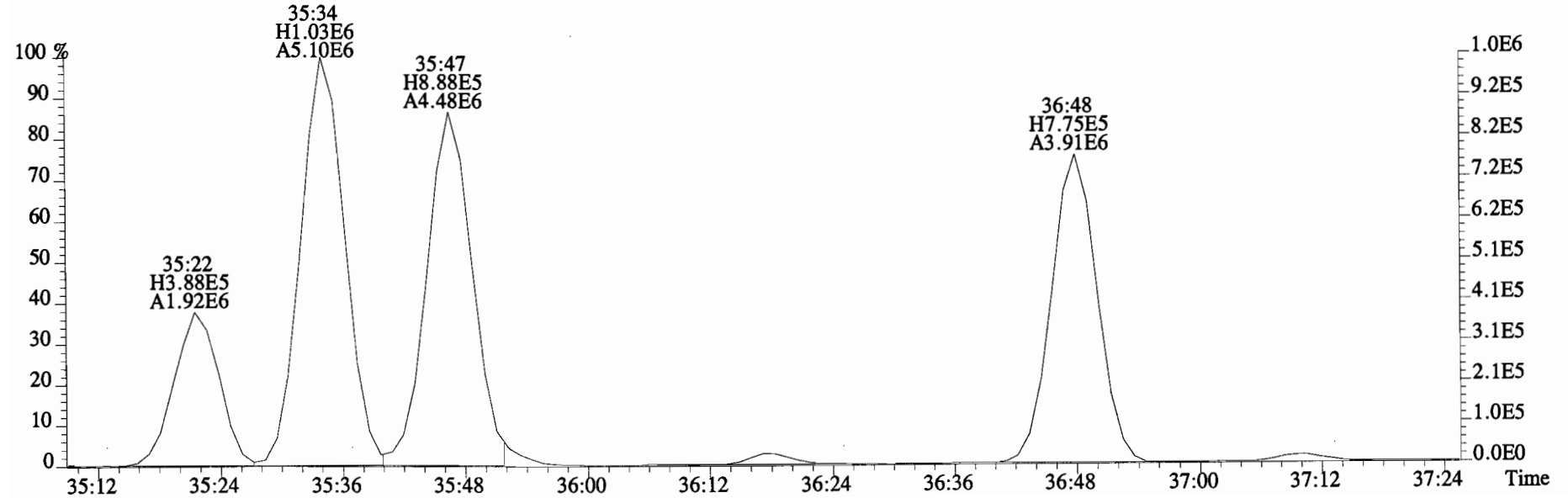
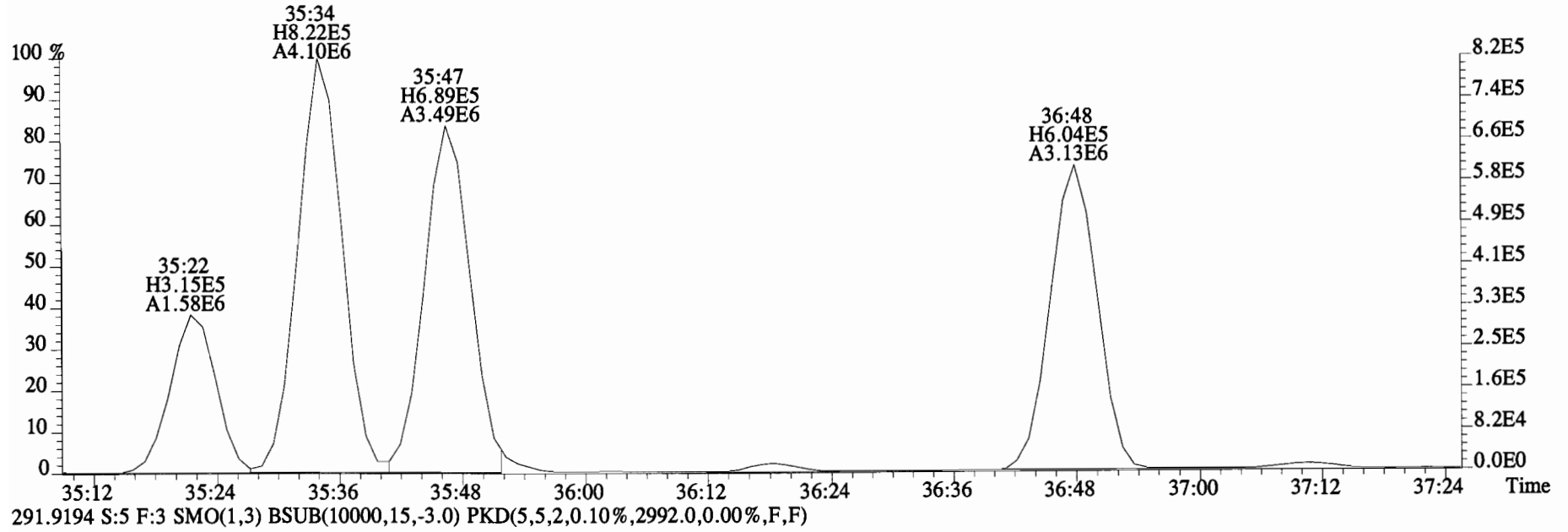
291.9194 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2992.0,0.00%,F,F)



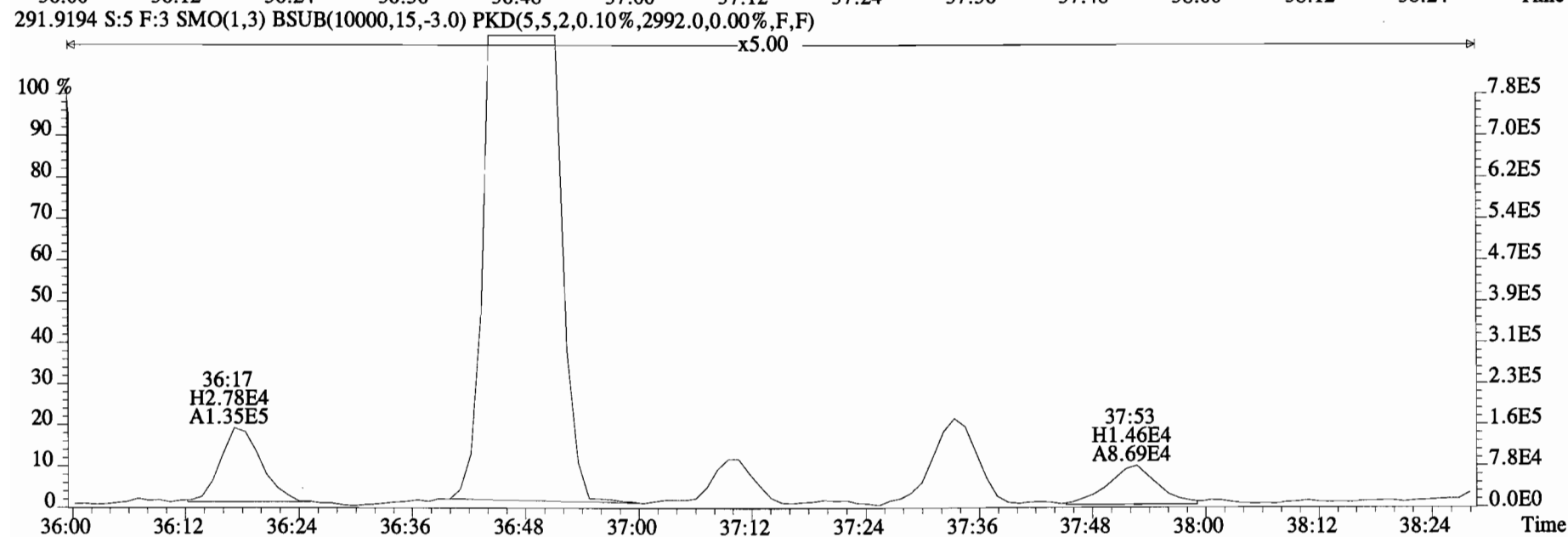
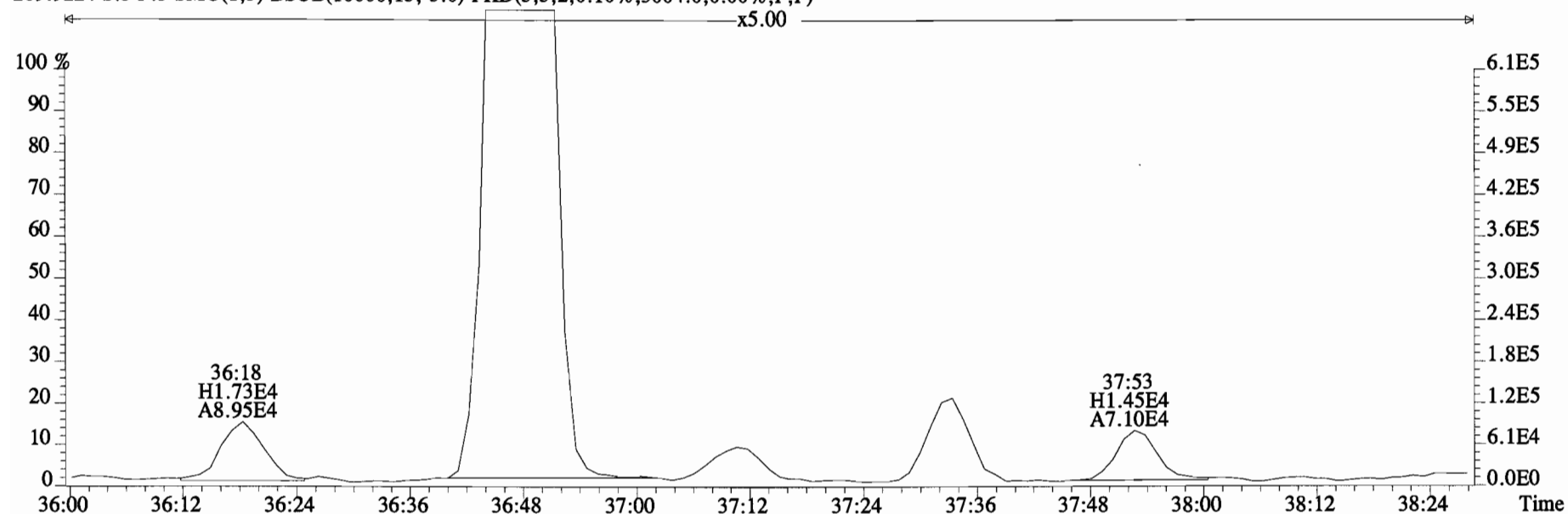
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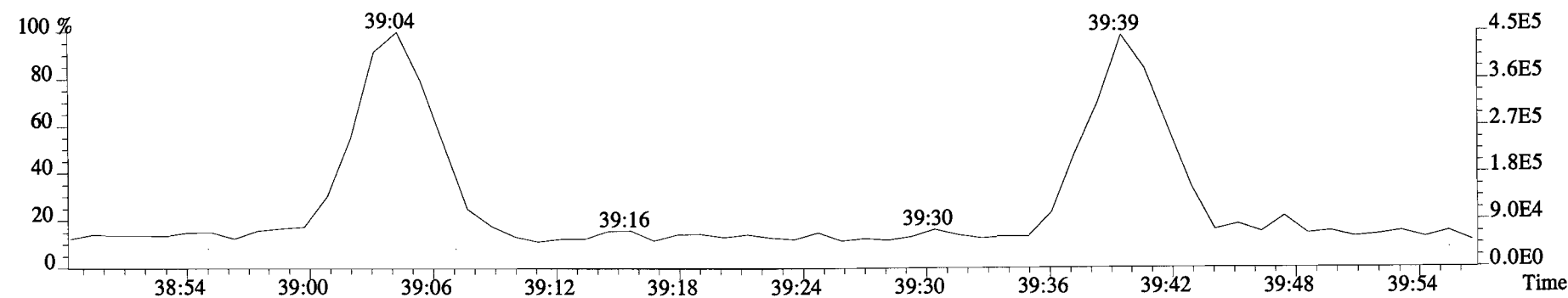
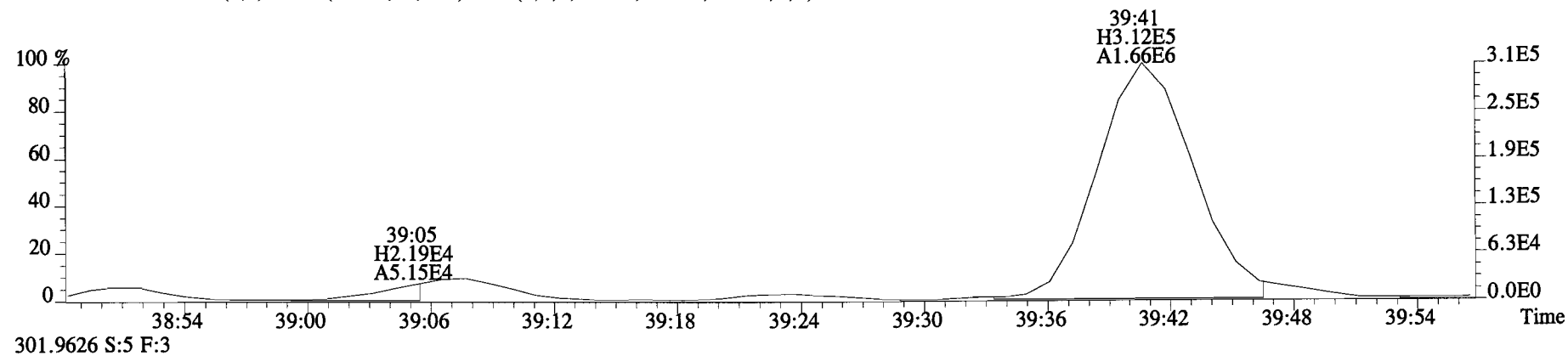
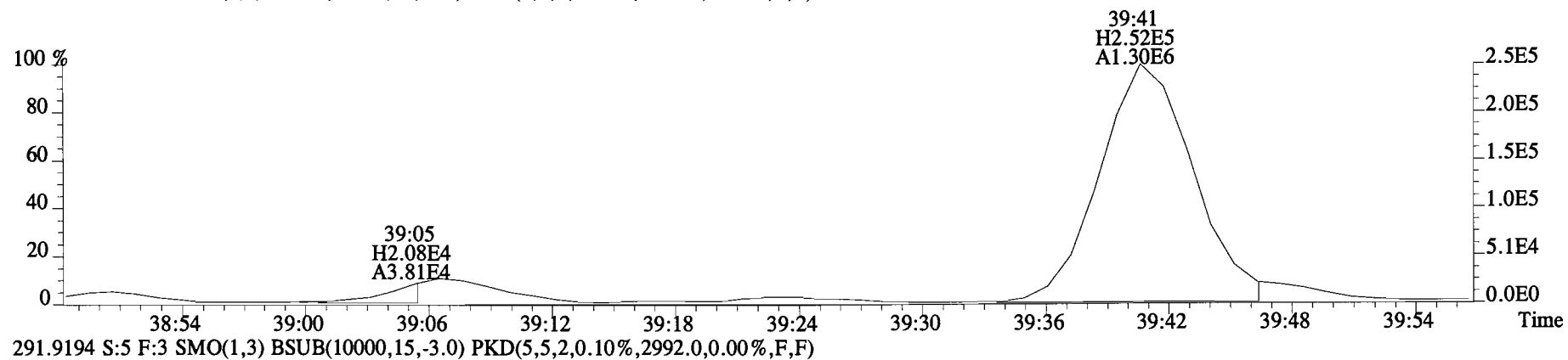
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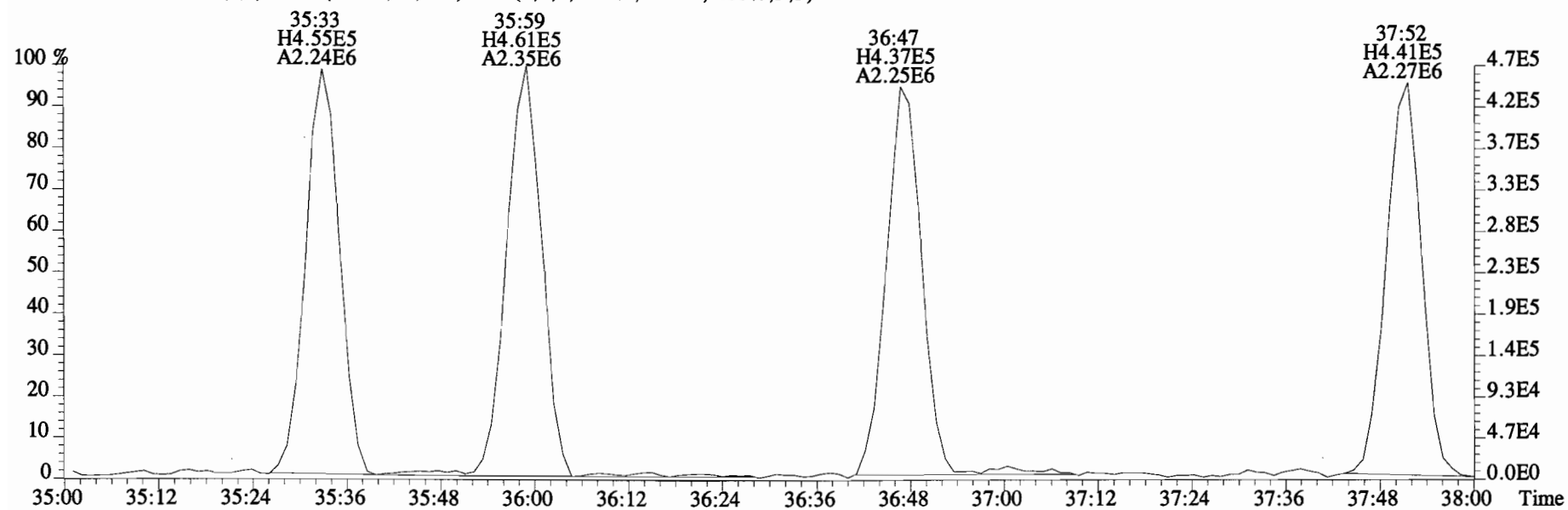
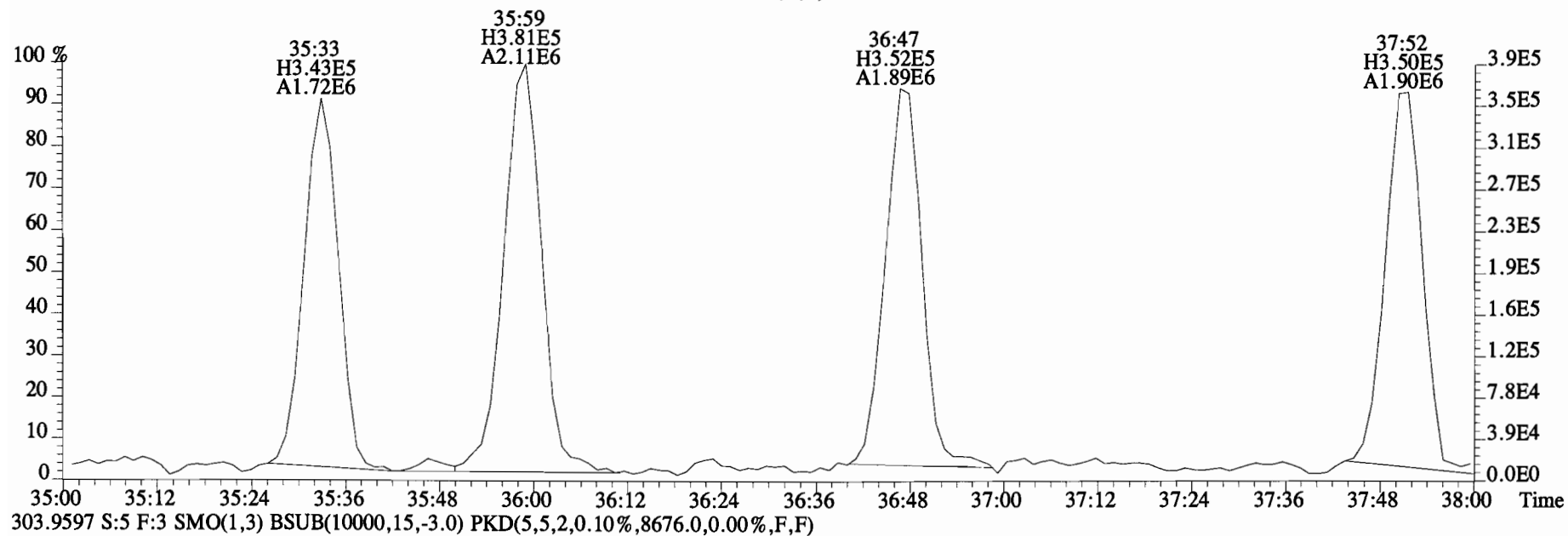
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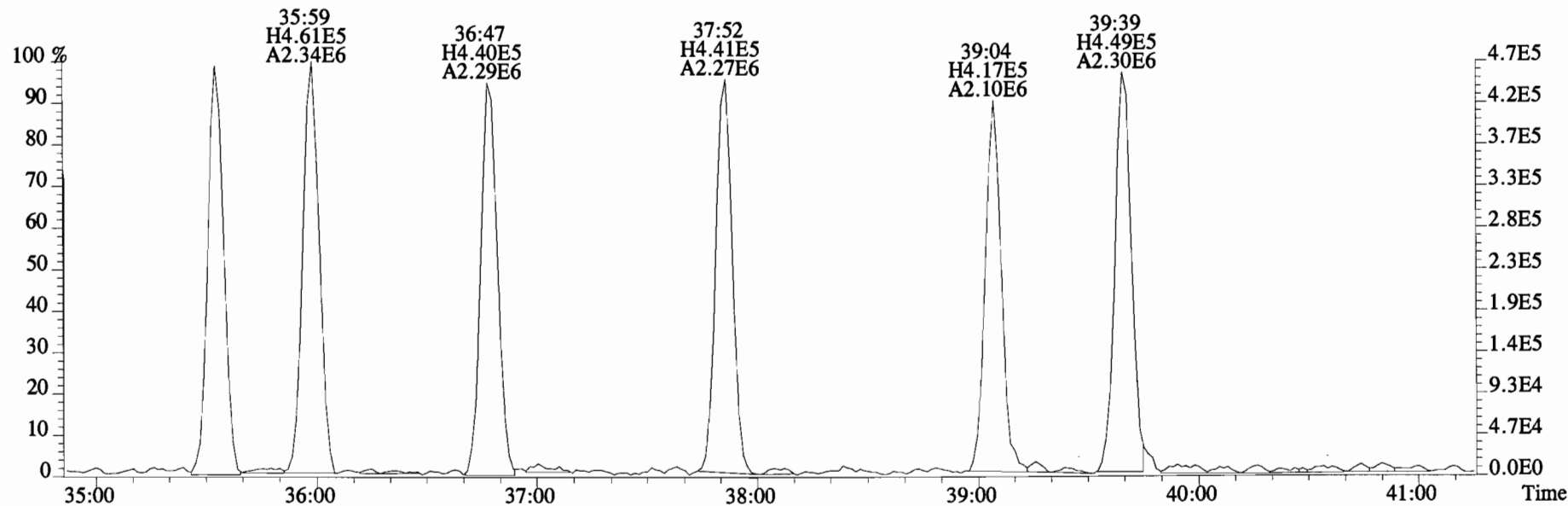
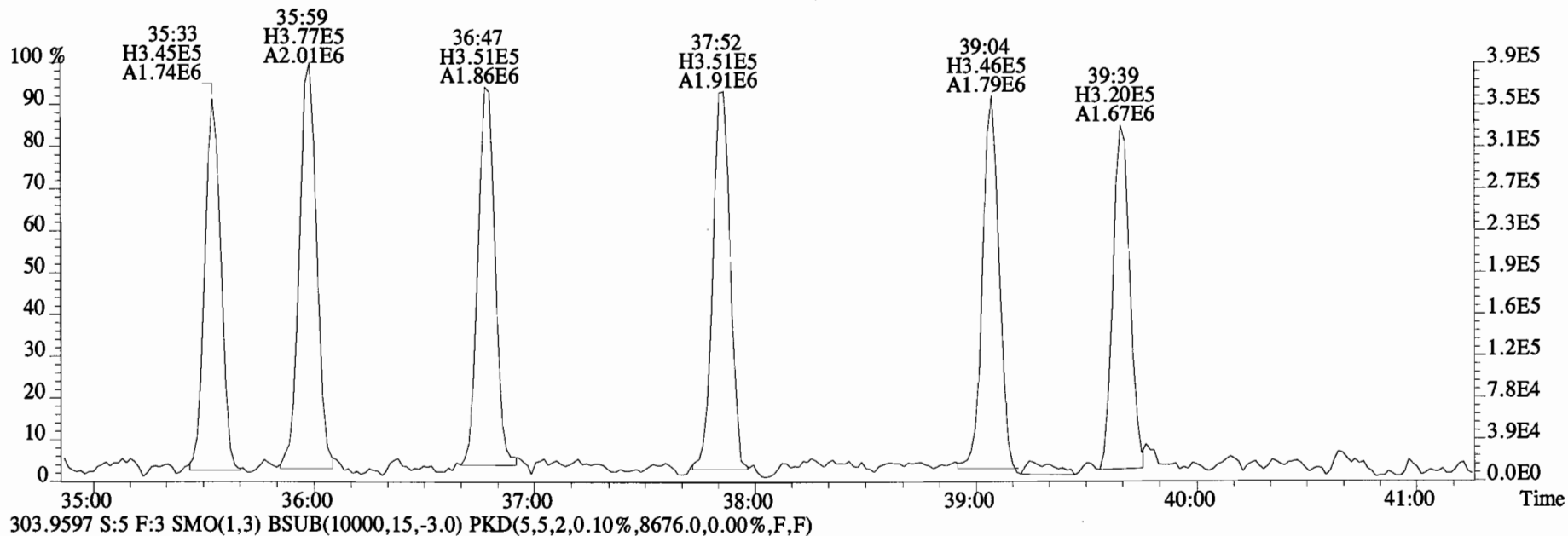
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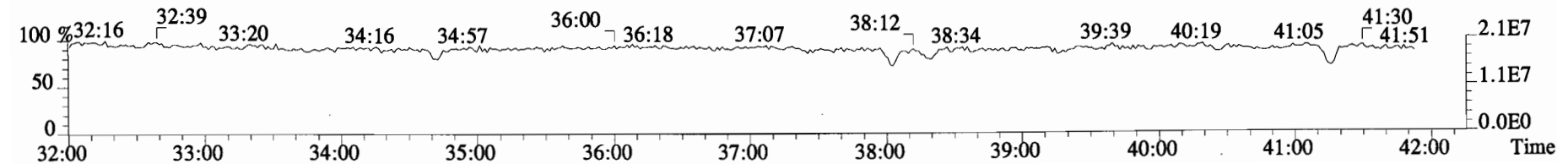
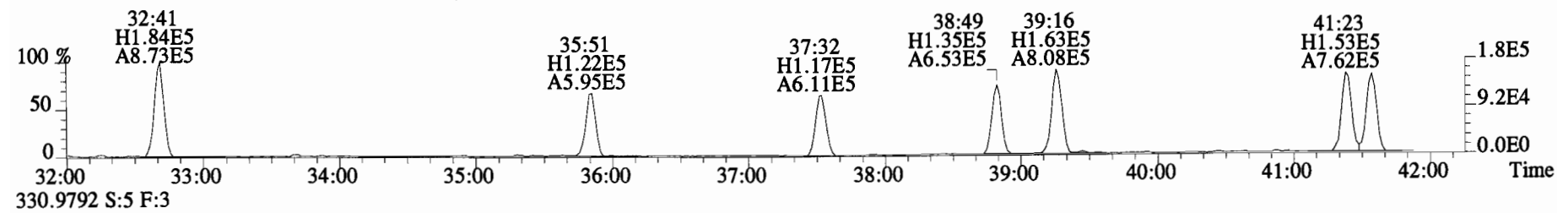
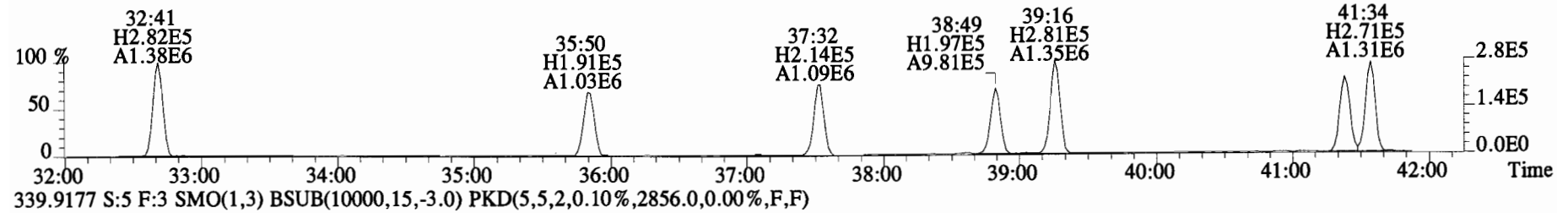
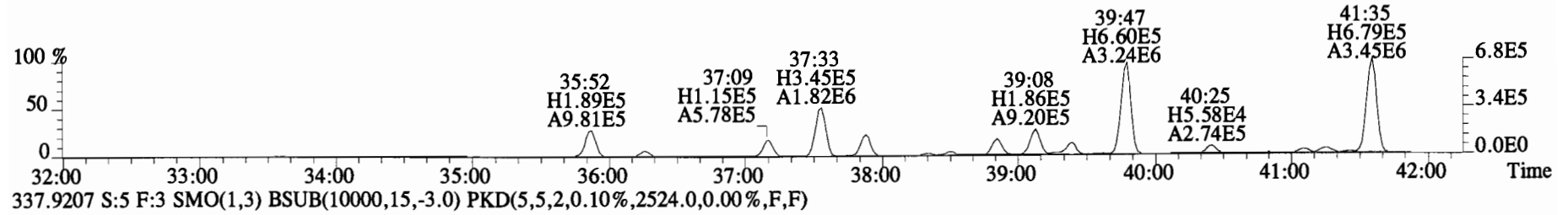
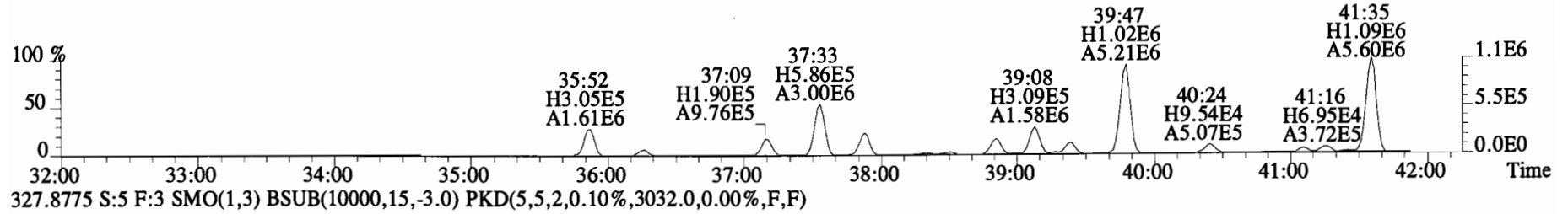
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,18544.0,0.00%,F,F)



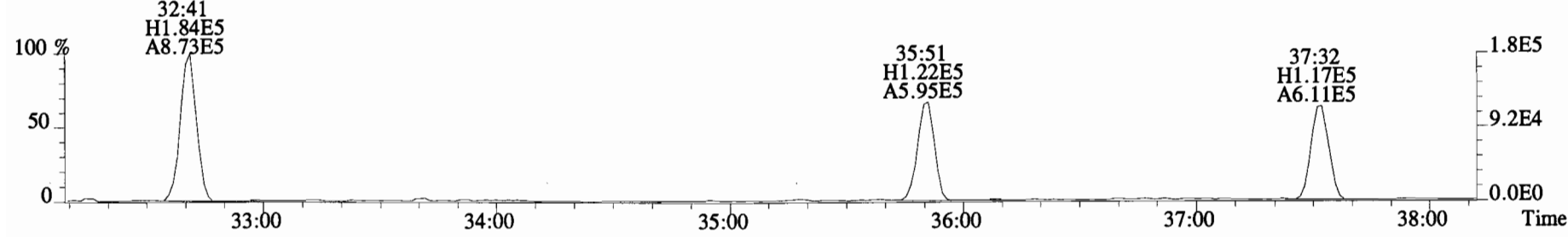
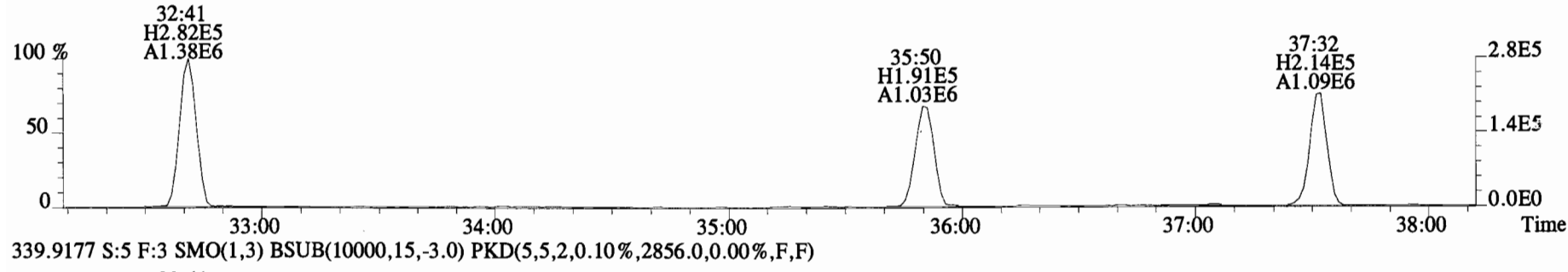
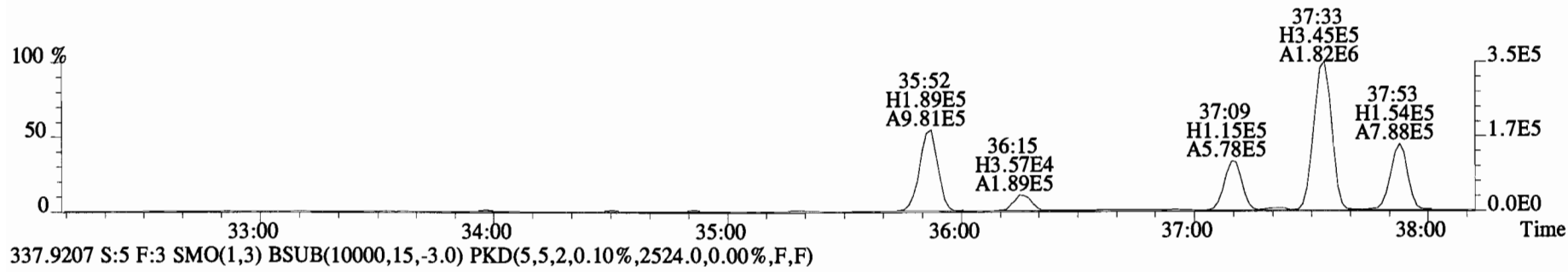
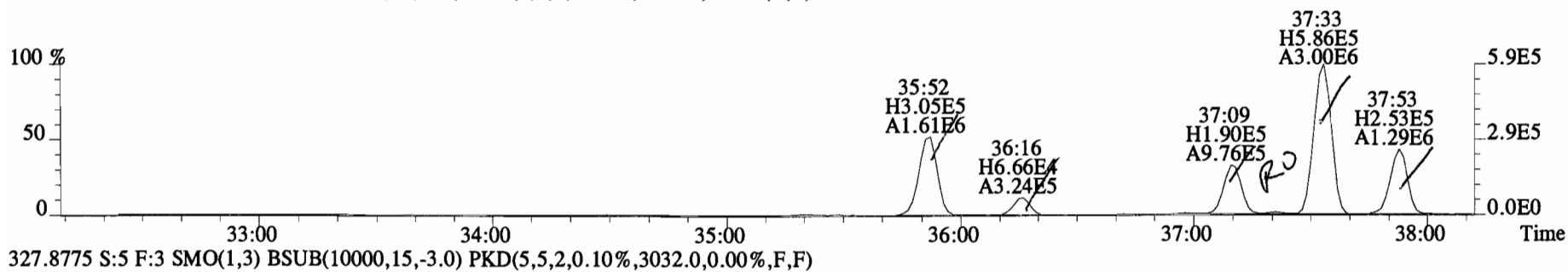
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
301.9626 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,18544.0,0.00%,F,F)



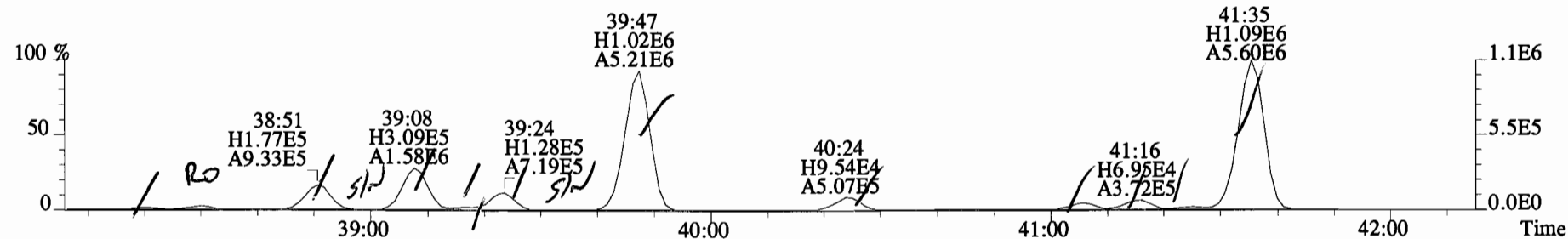
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3784.0,0.00%,F,F)



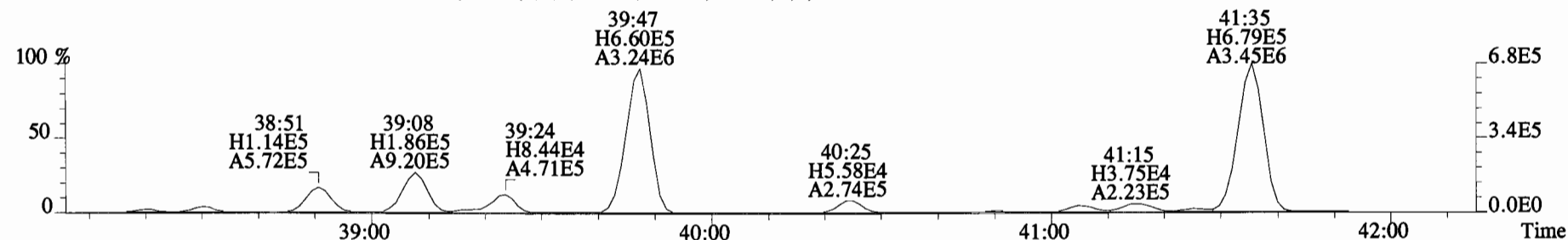
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3784.0,0.00%,F,F)



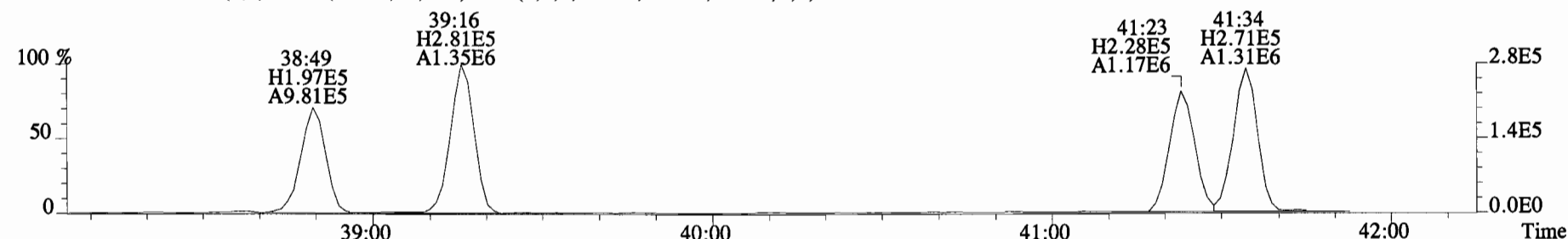
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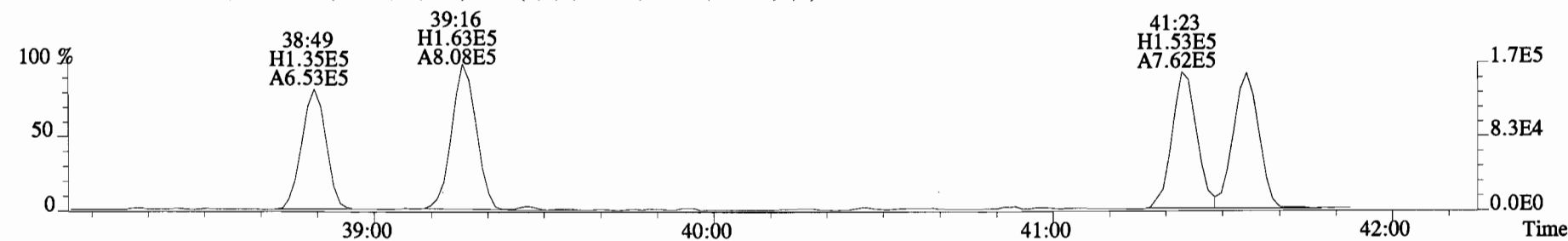
327.8775 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3032.0,0.00%,F,F)



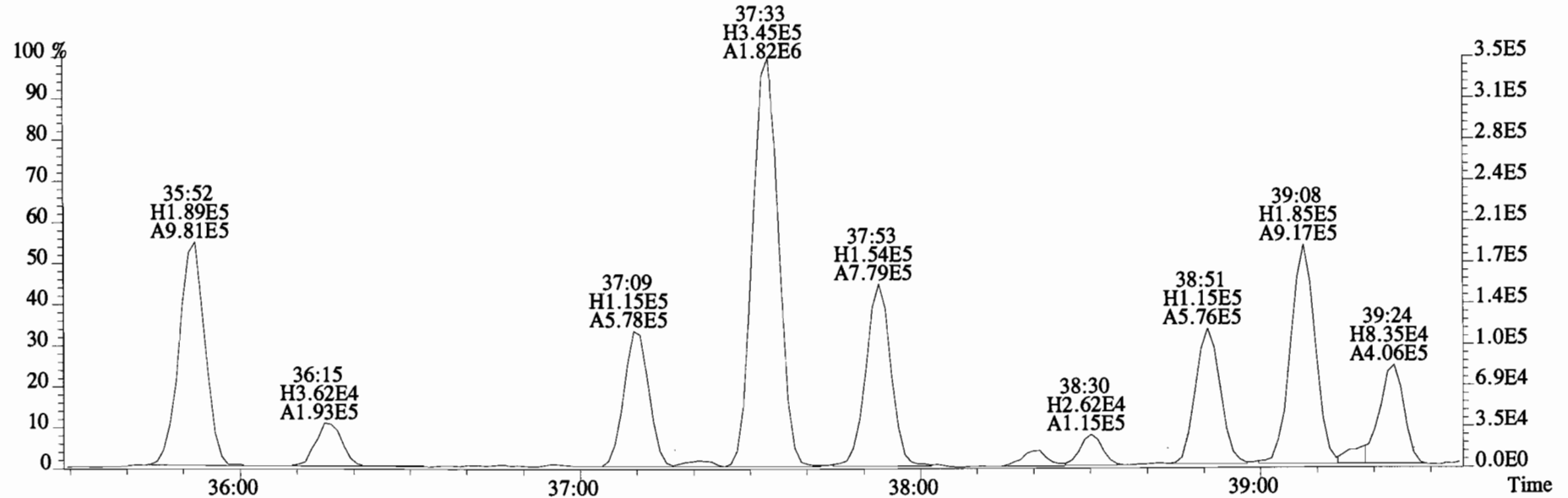
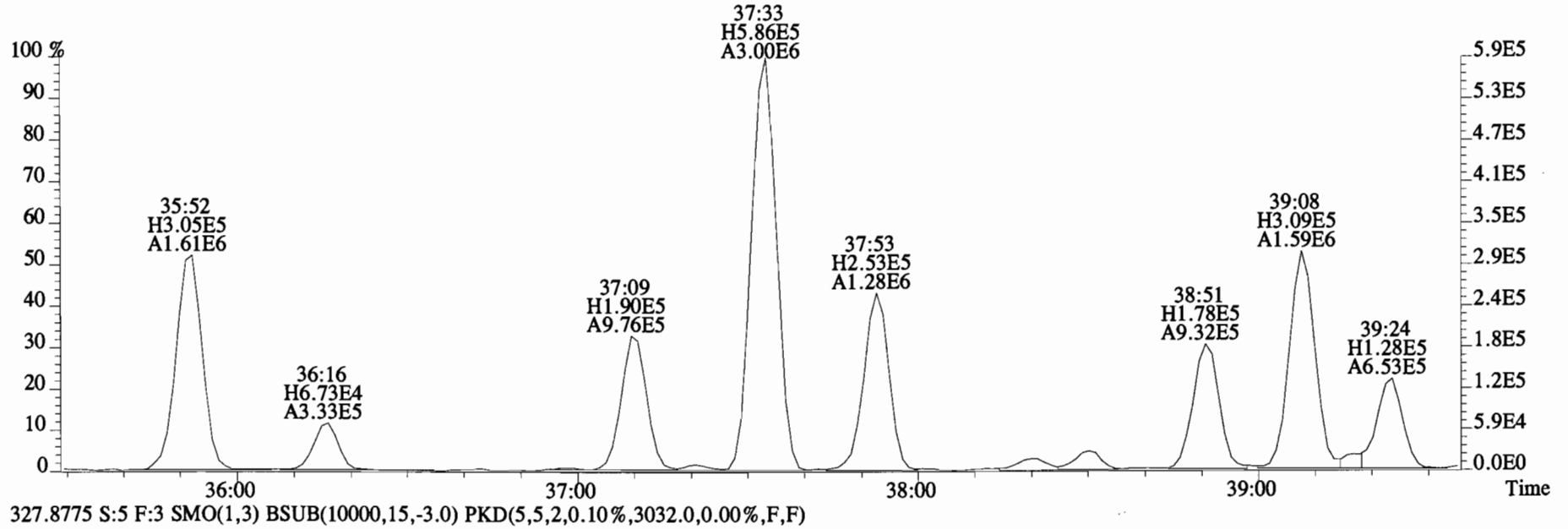
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2524.0,0.00%,F,F)



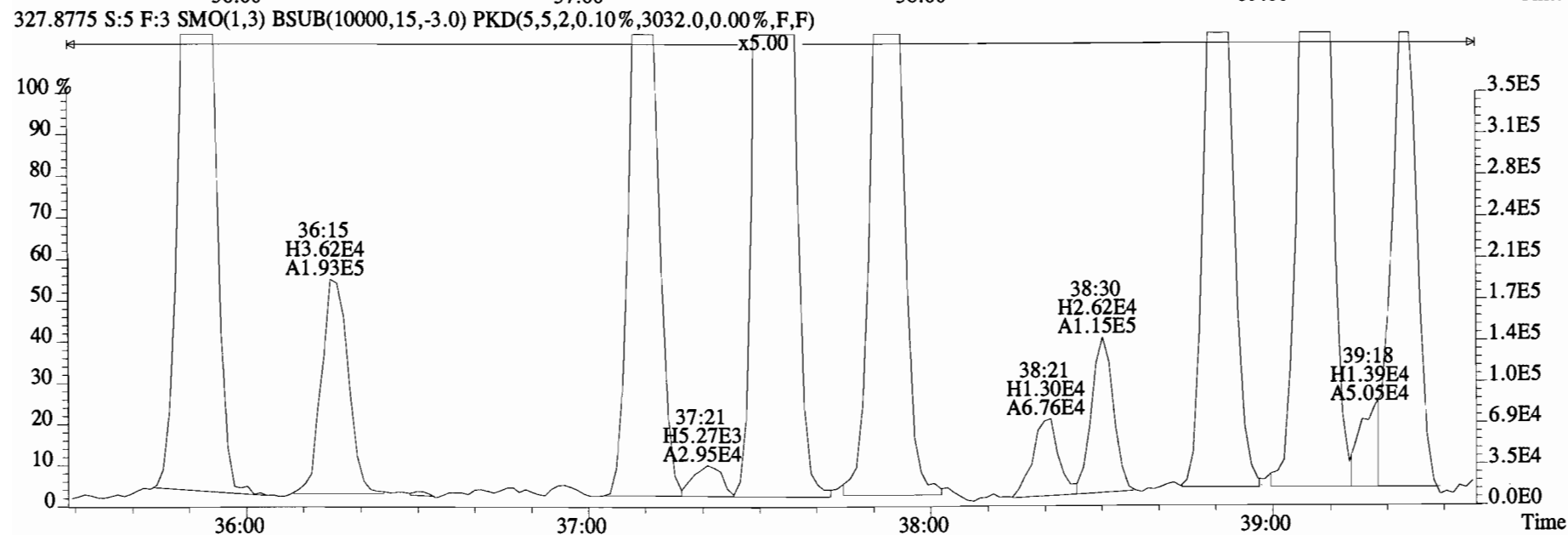
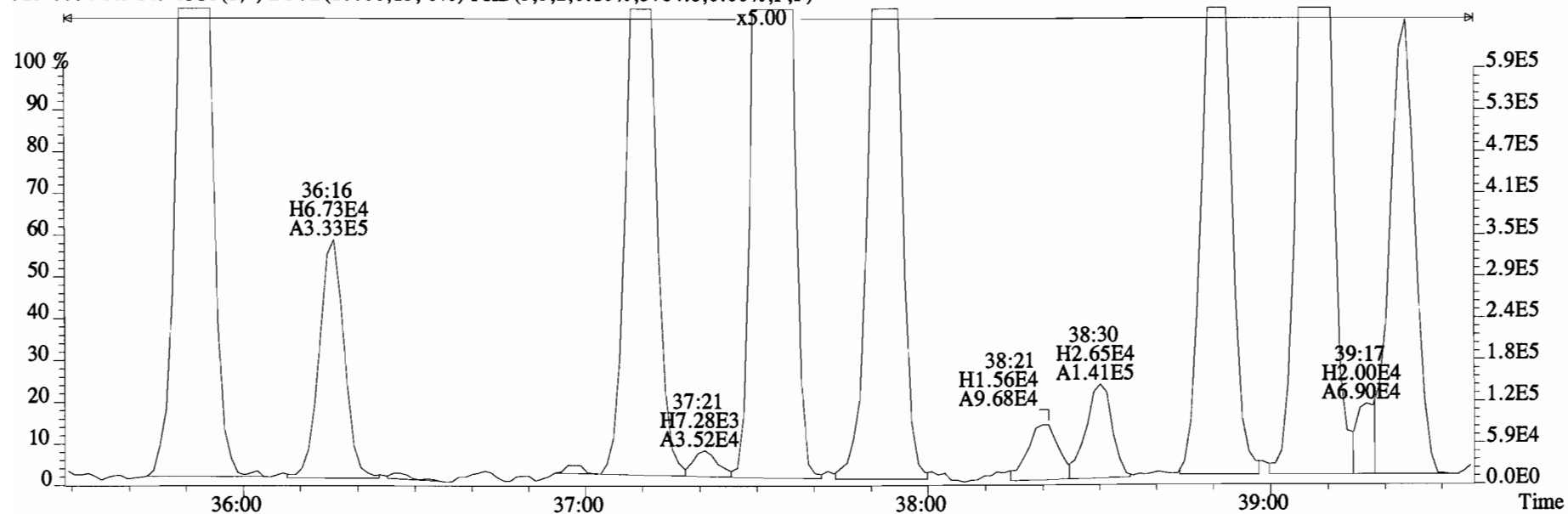
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2856.0,0.00%,F,F)



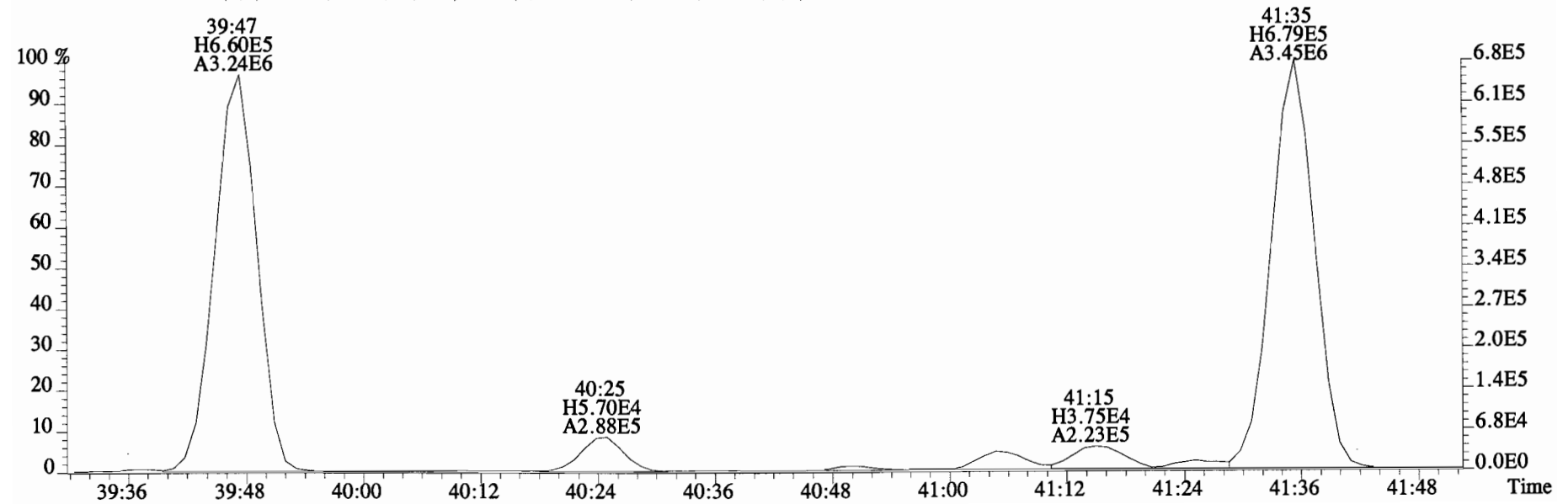
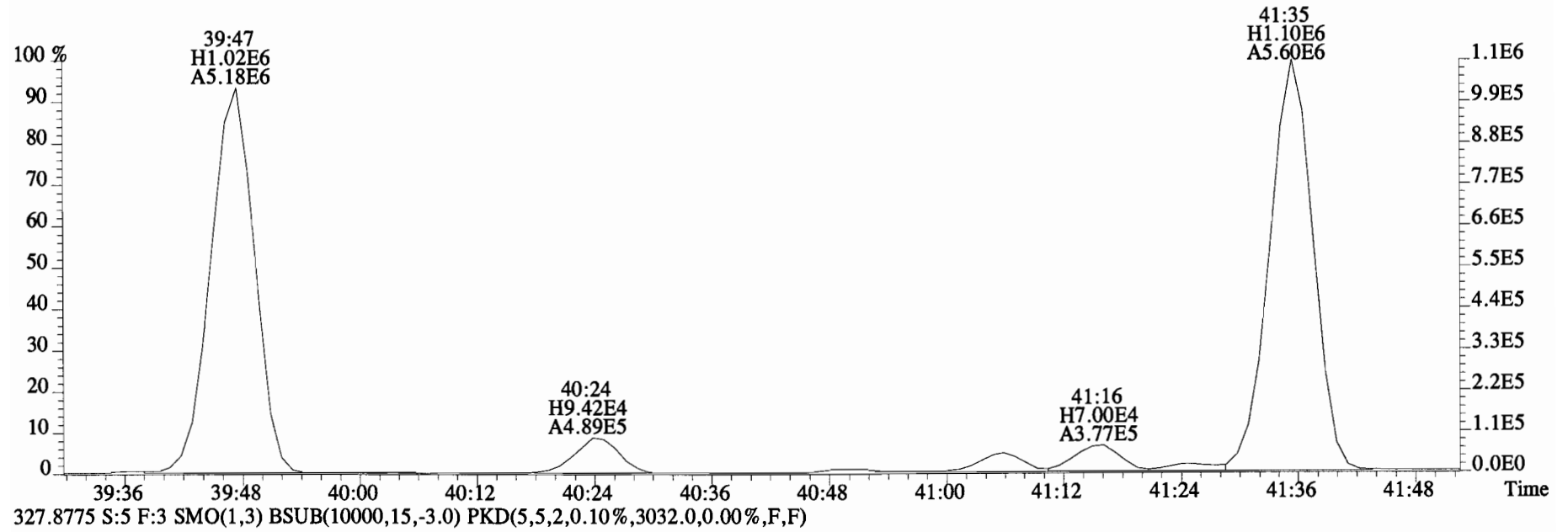
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3784.0,0.00%,F,F)



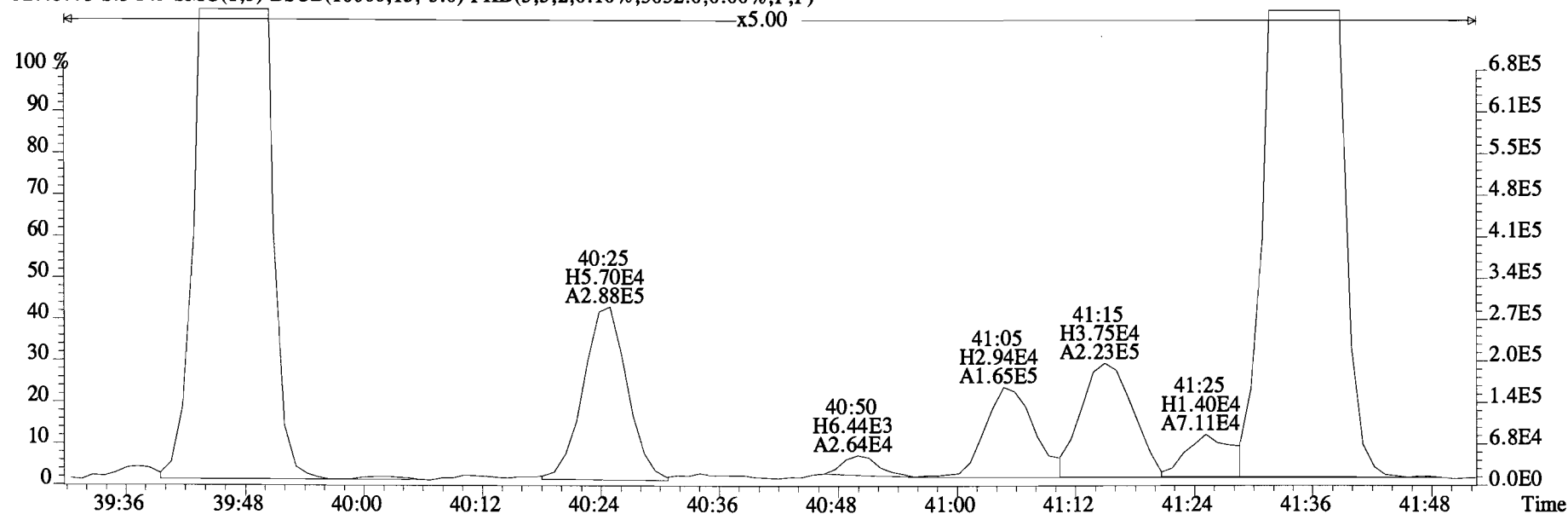
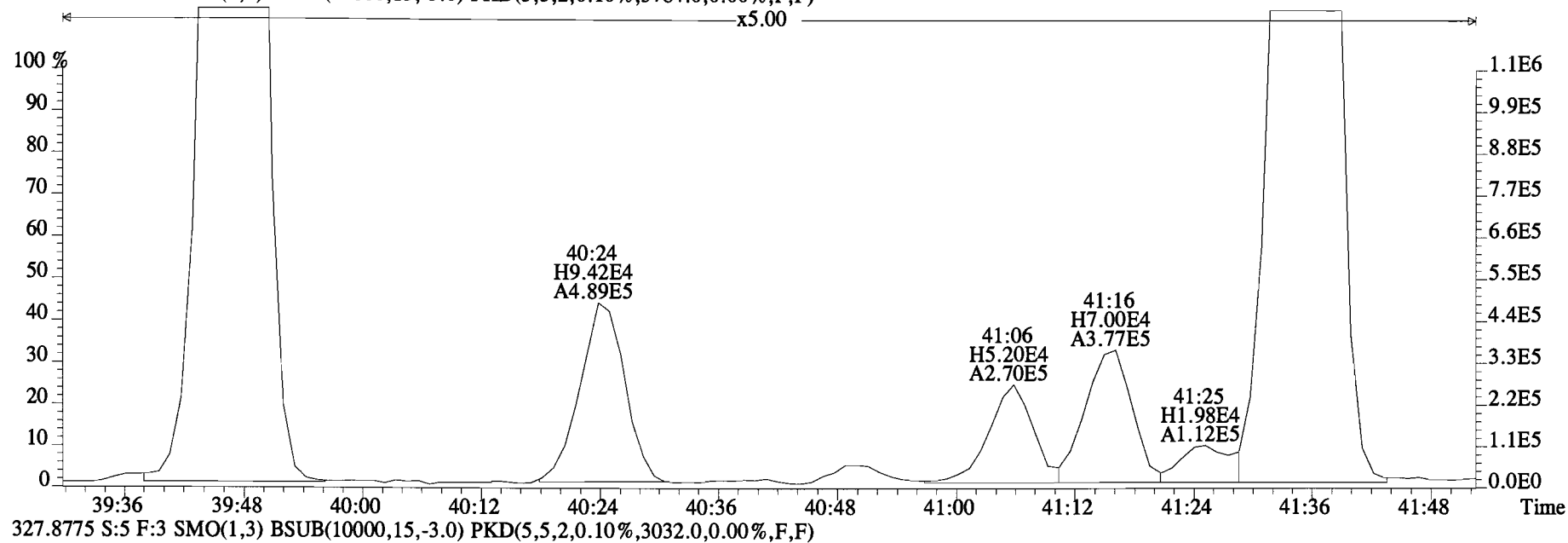
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3784.0,0.00%,F,F)



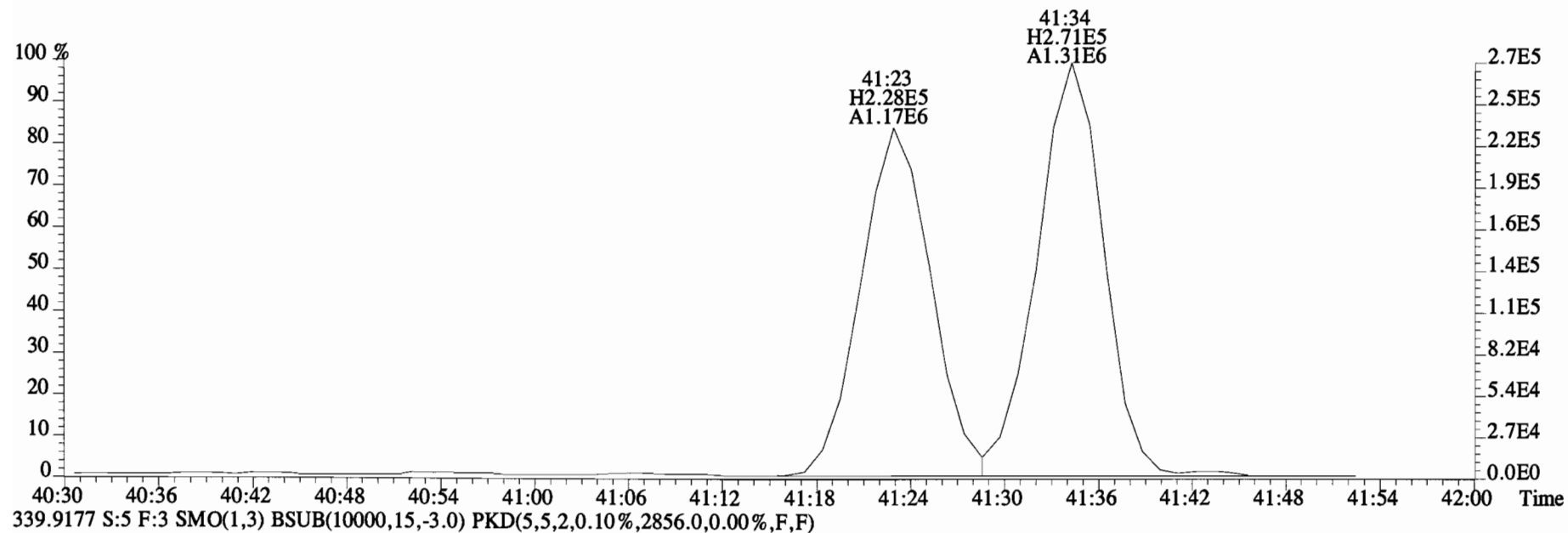
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3784.0,0.00%,F,F)



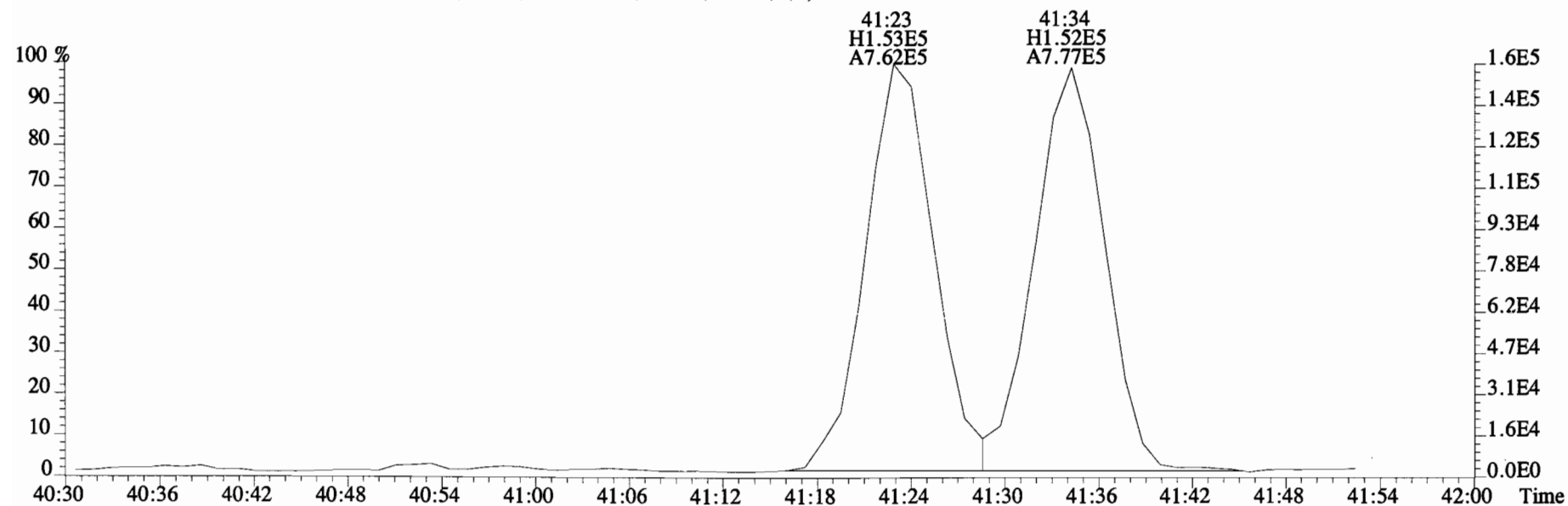
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 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 325.8804 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3784.0,0.00%,F,F)



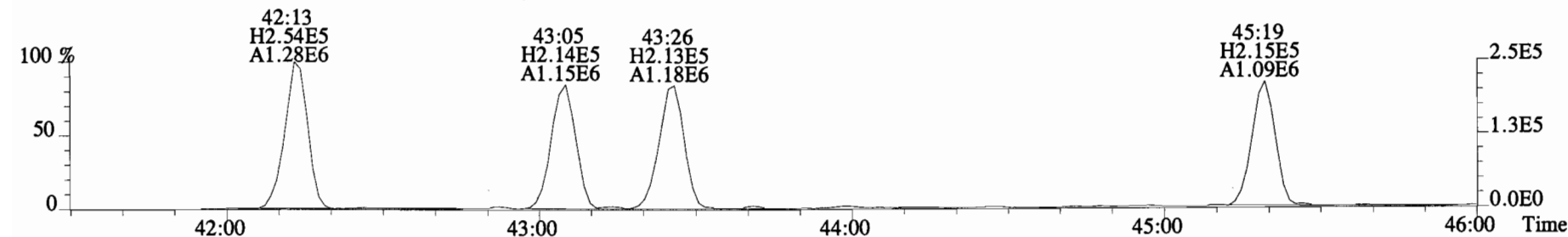
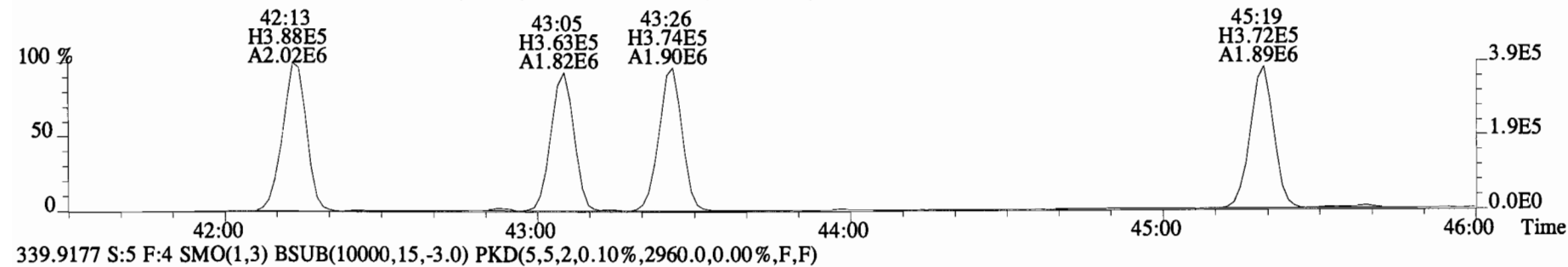
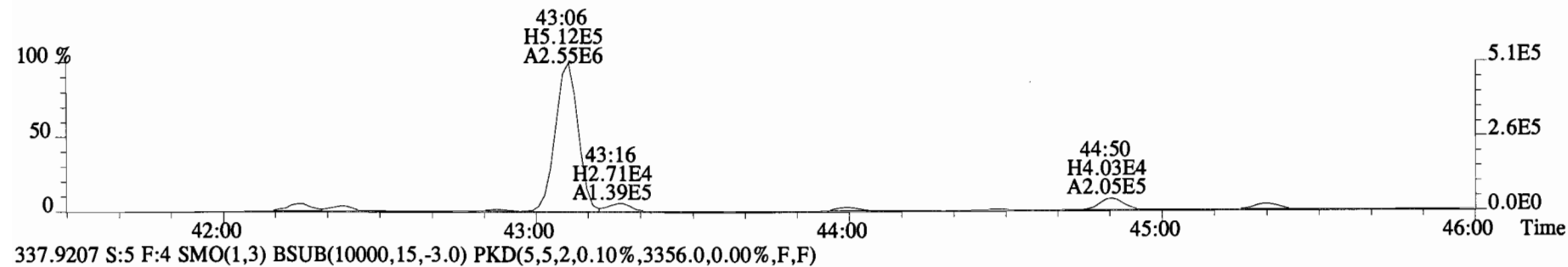
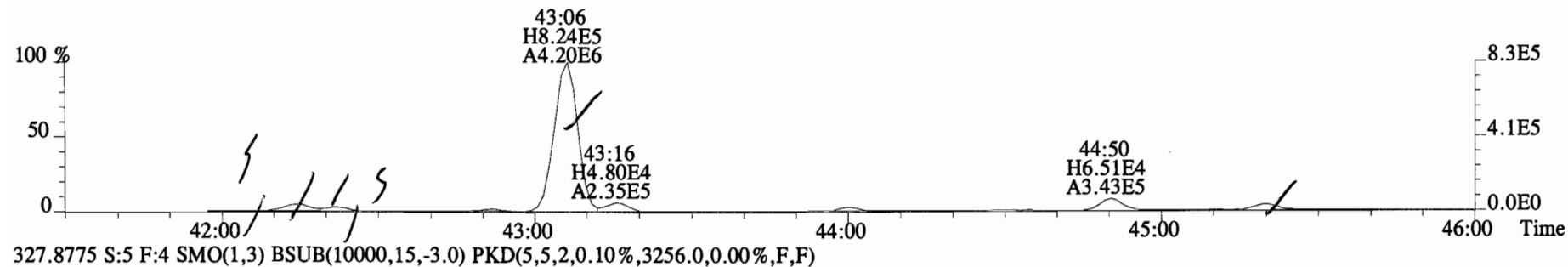
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
337.9207 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2524.0,0.00%,F,F)



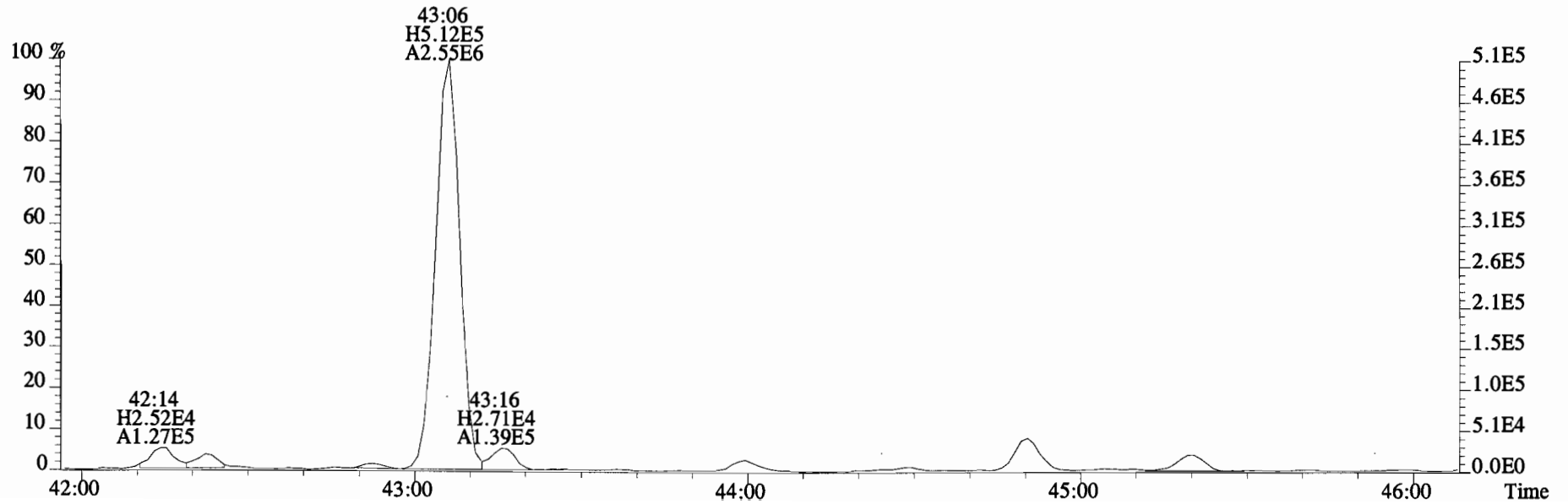
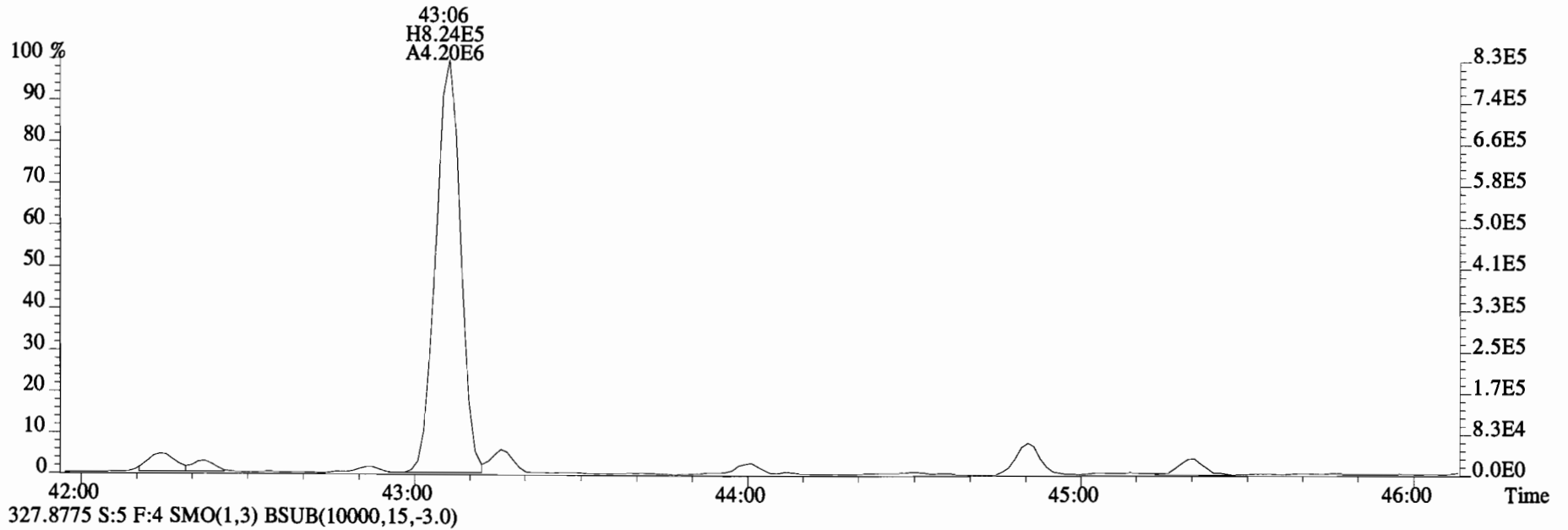
339.9177 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2856.0,0.00%,F,F)



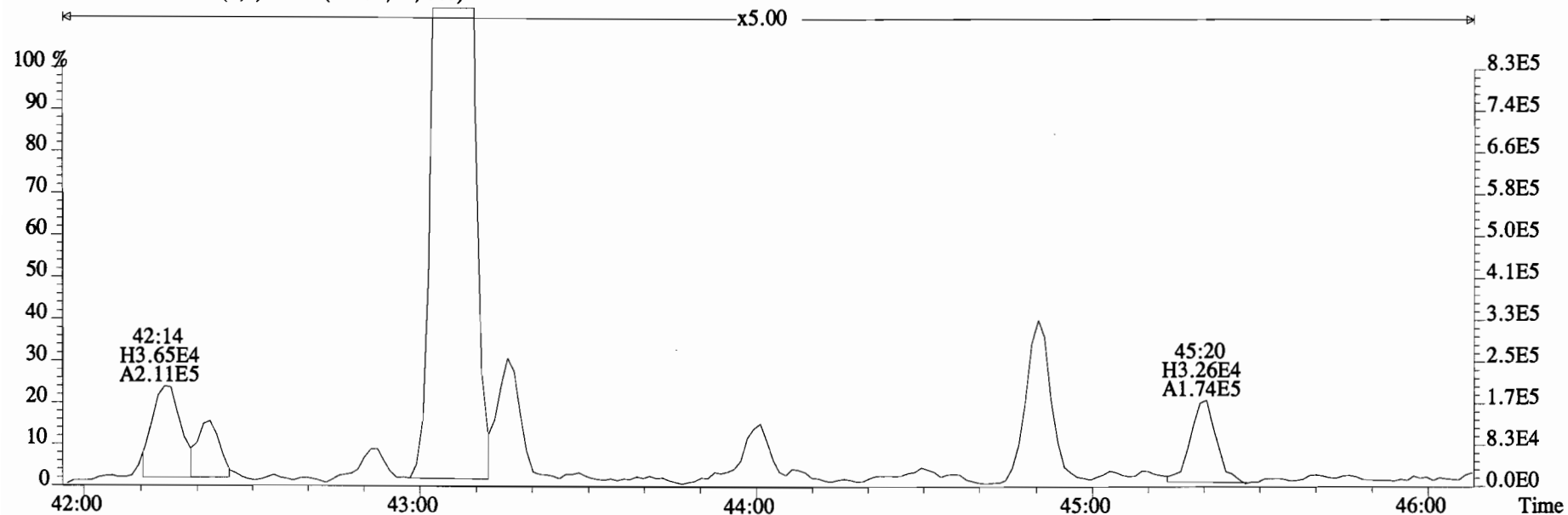
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4872.0,0.00%,F,F)



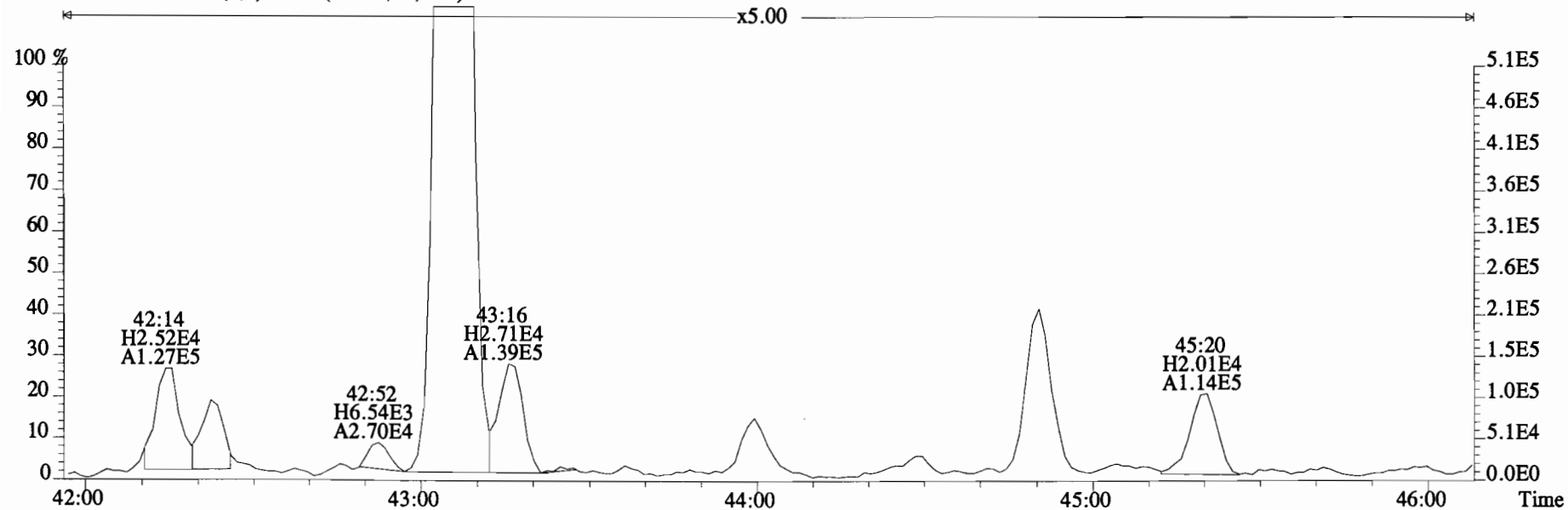
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0)



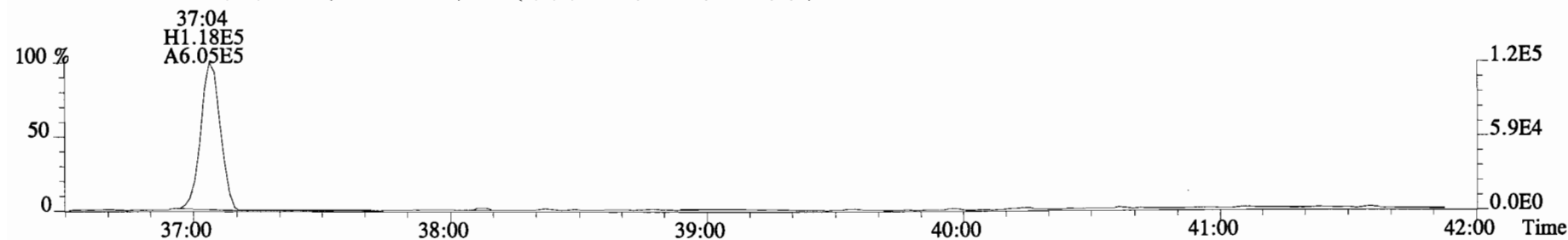
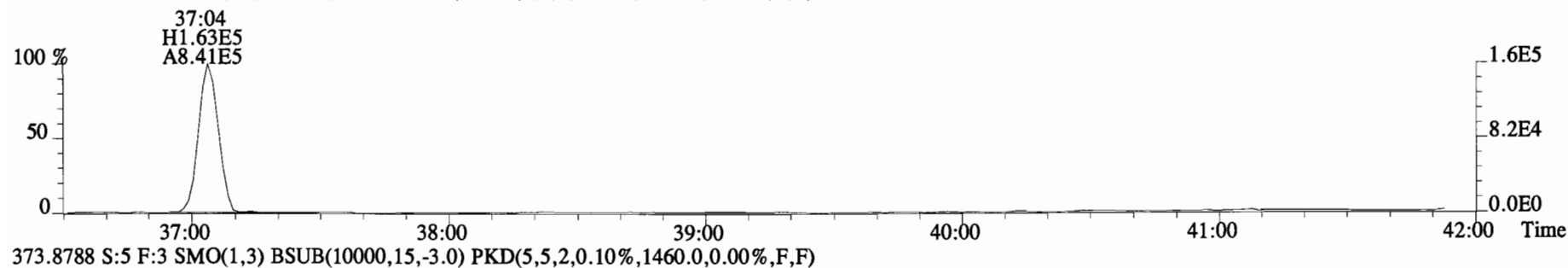
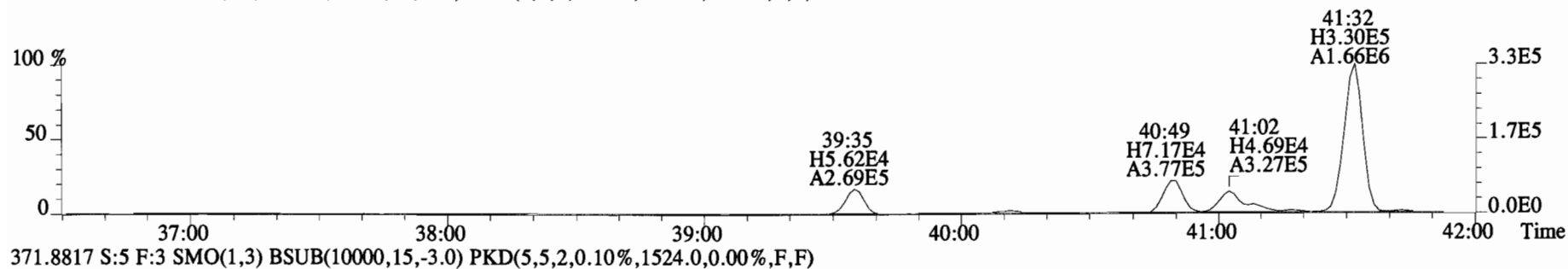
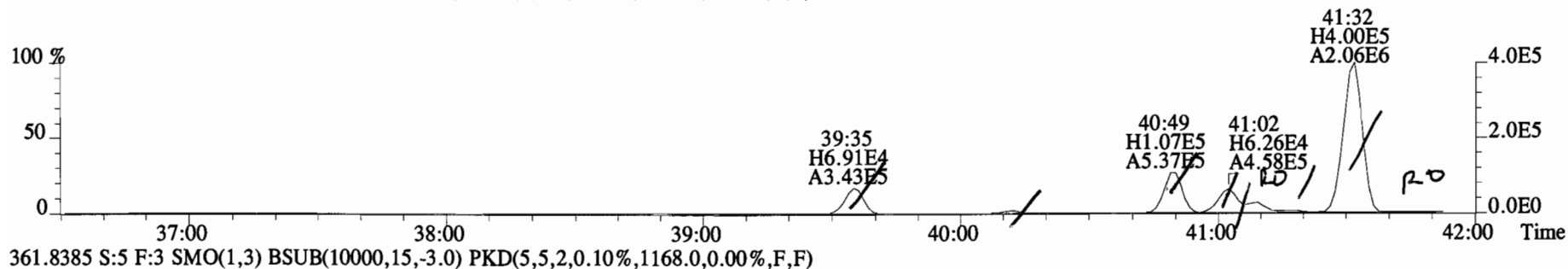
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0)



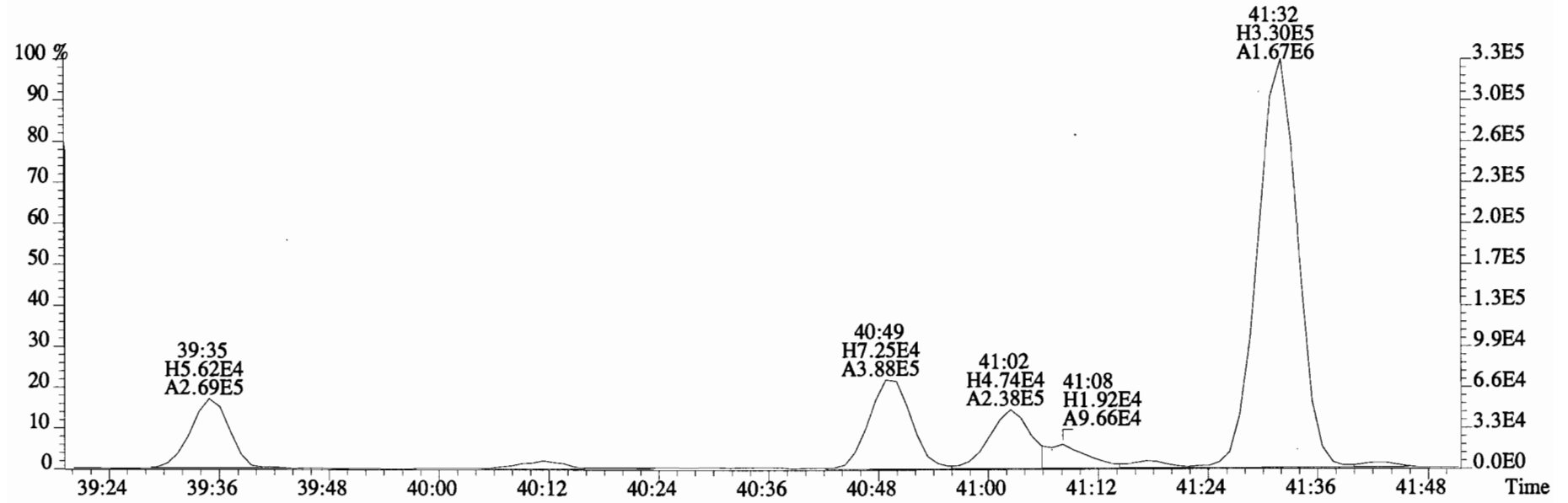
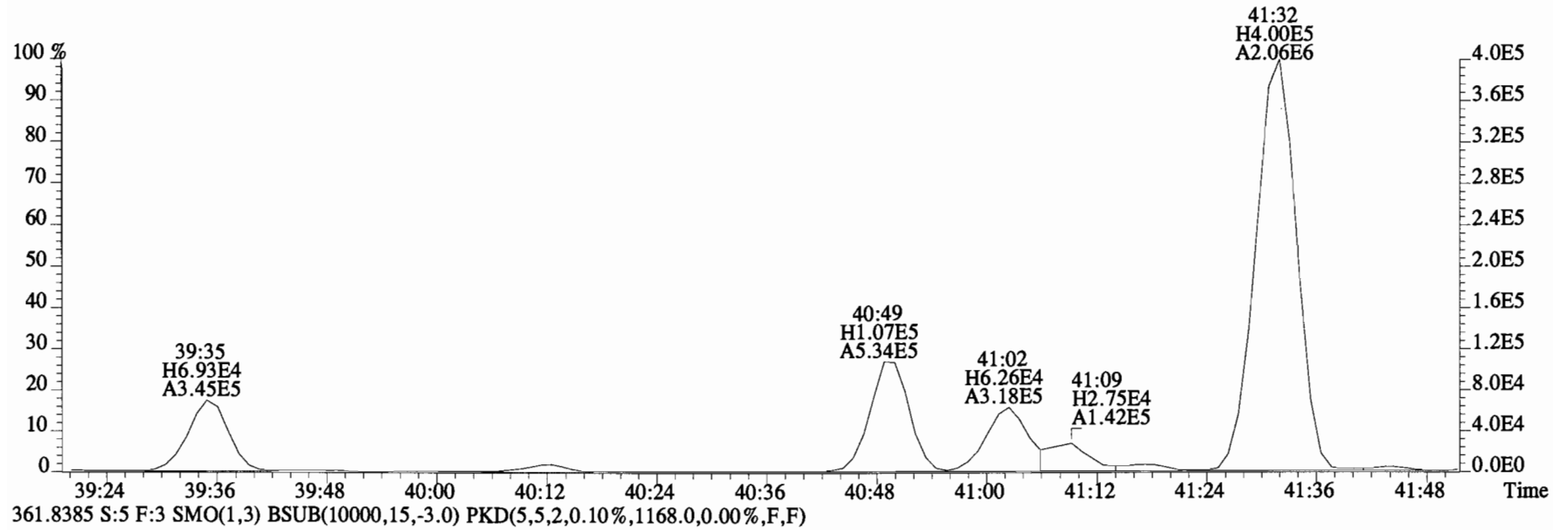
327.8775 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0)



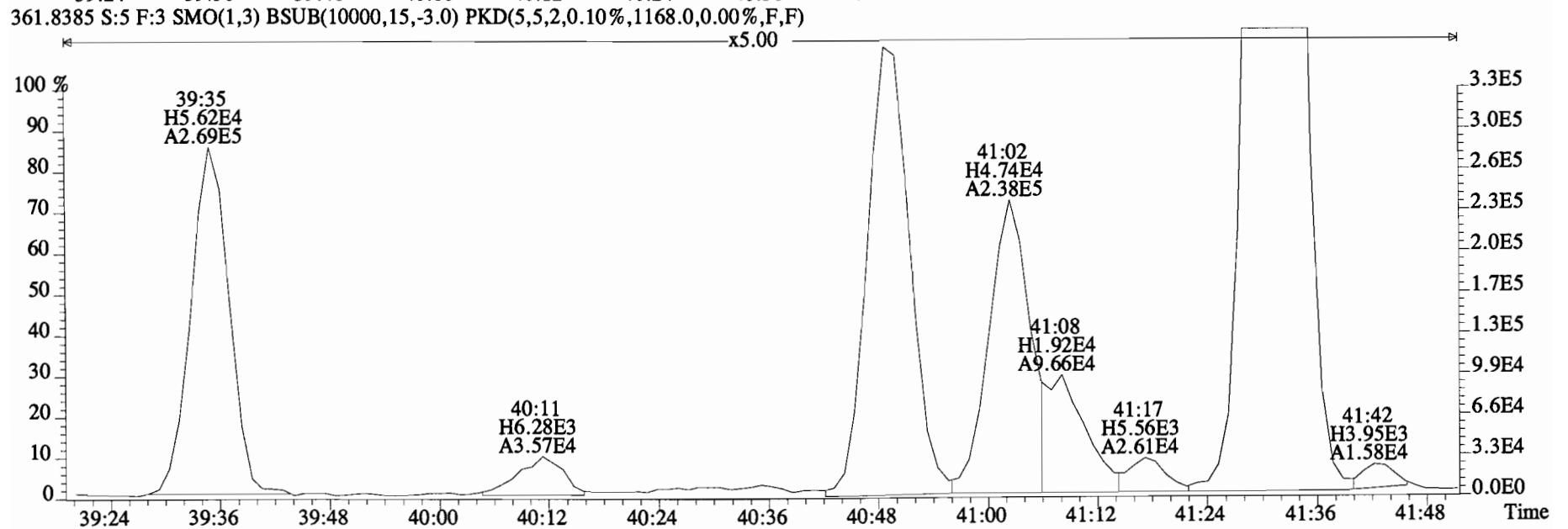
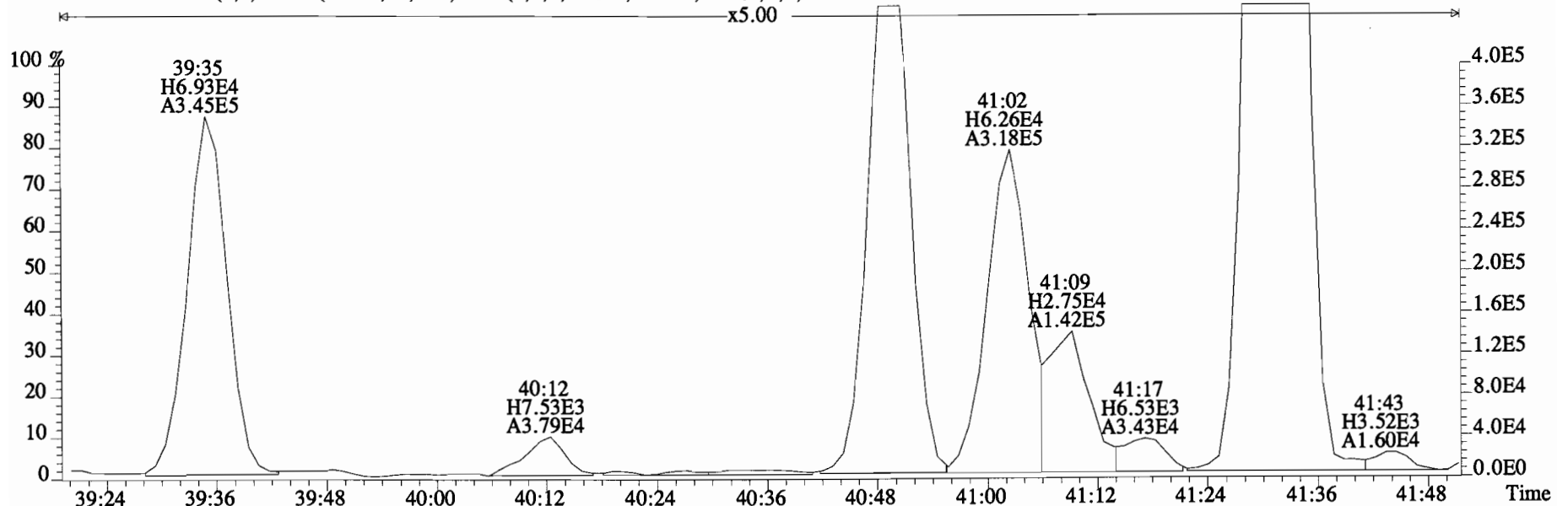
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1580.0,0.00%,F,F)



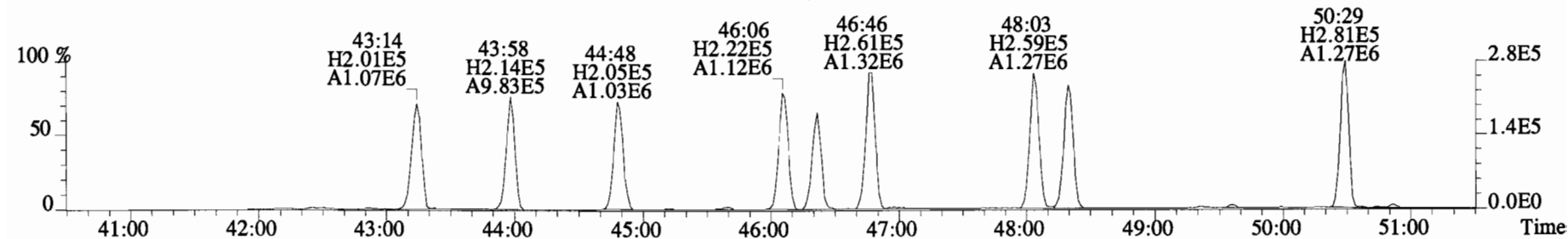
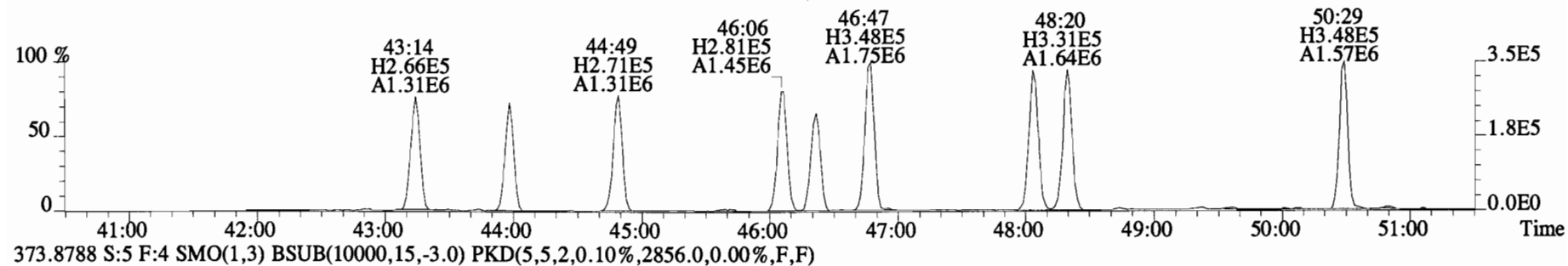
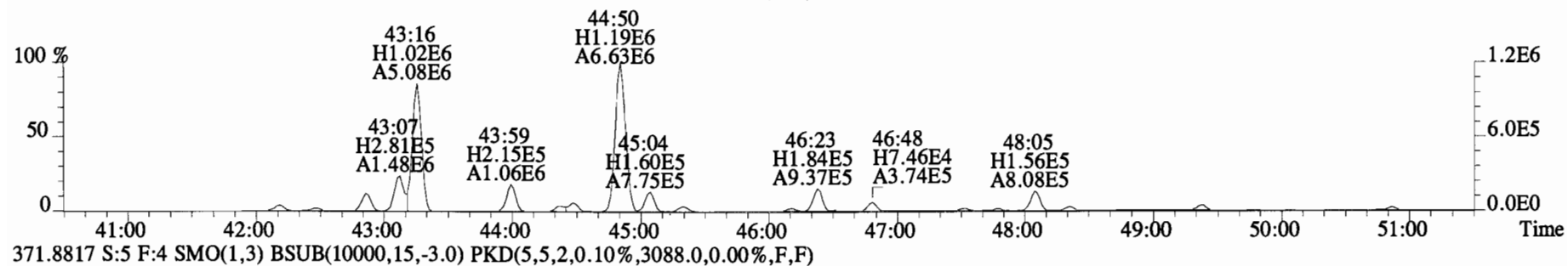
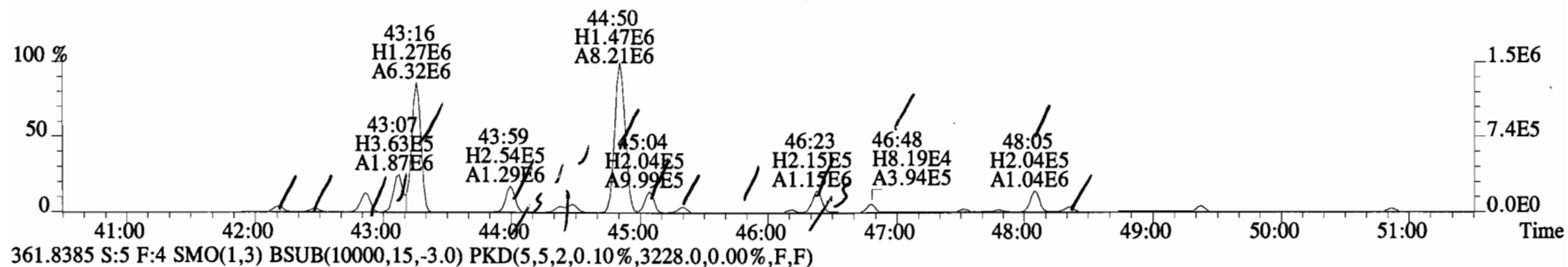
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1580.0,0.00%,F,F)



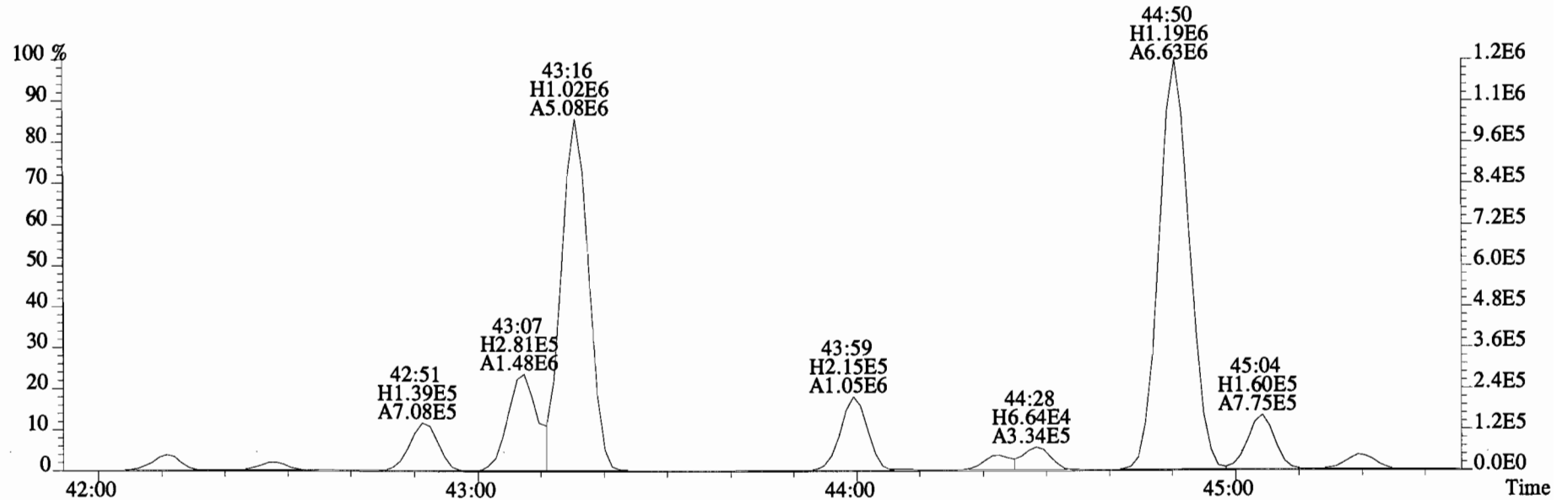
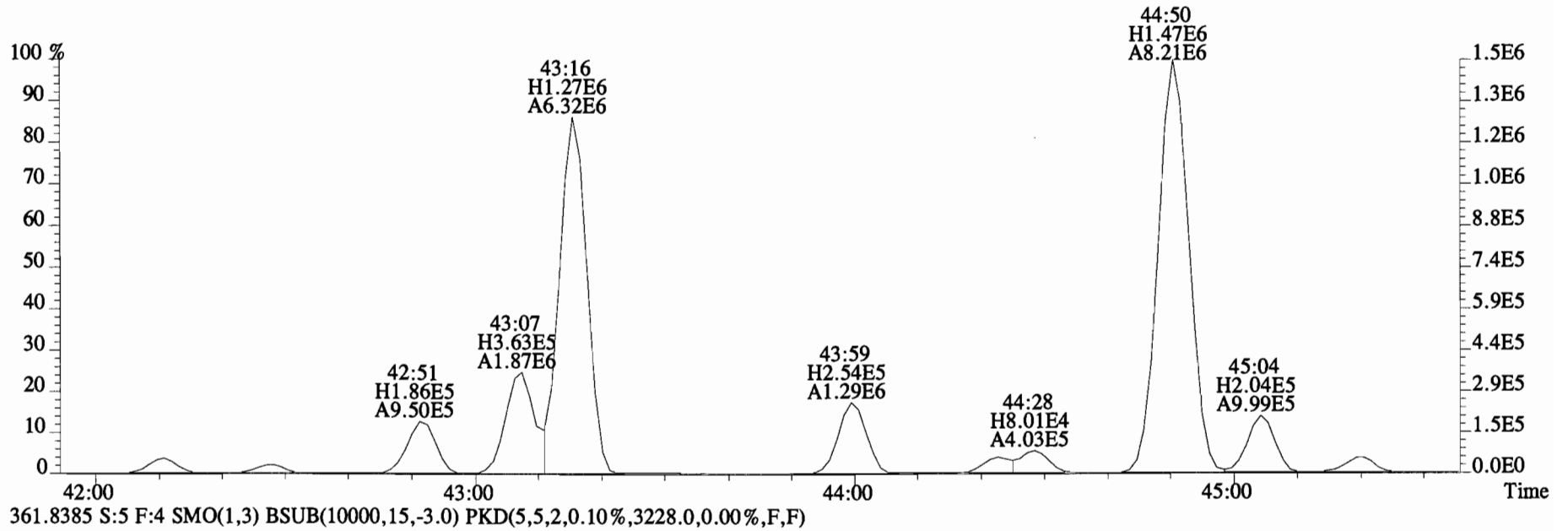
File:150319E1 #1-758 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 359.8415 S:5 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1580.0,0.00%,F,F)



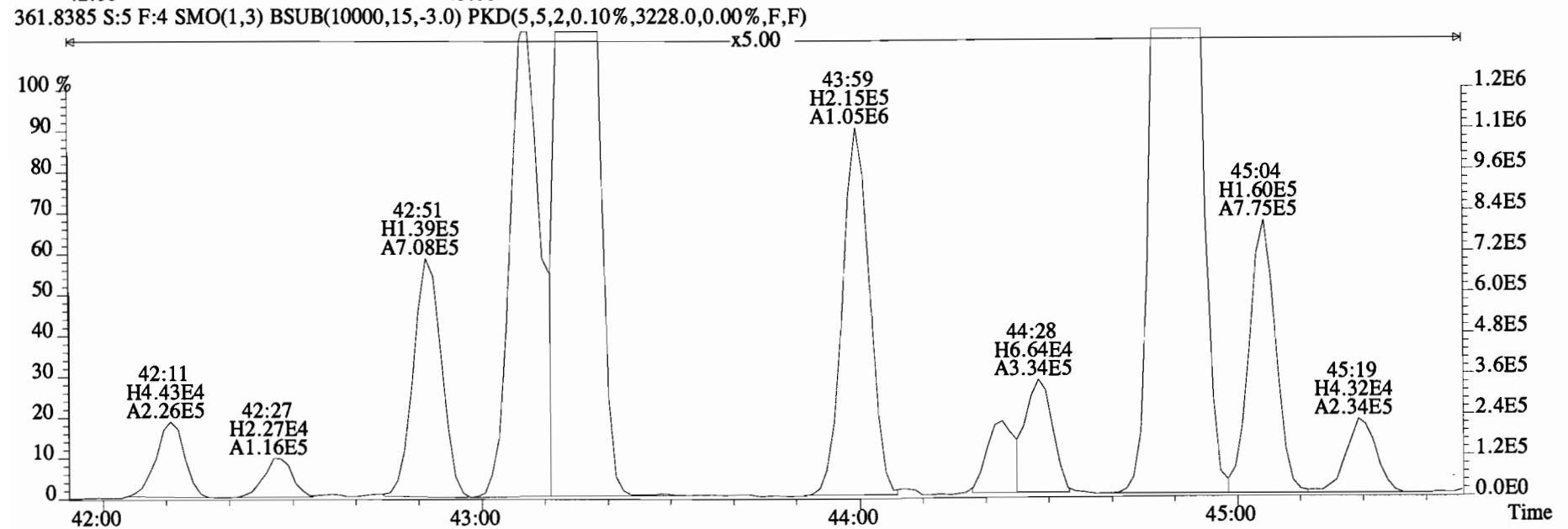
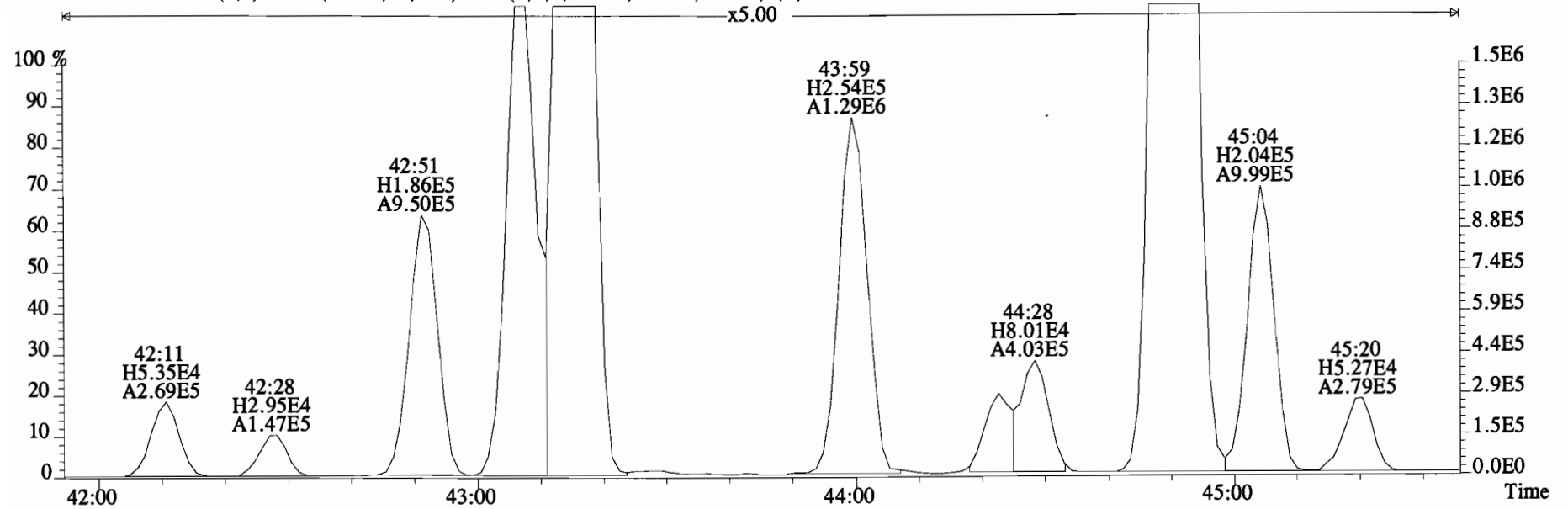
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3712.0,0.00%,F,F)



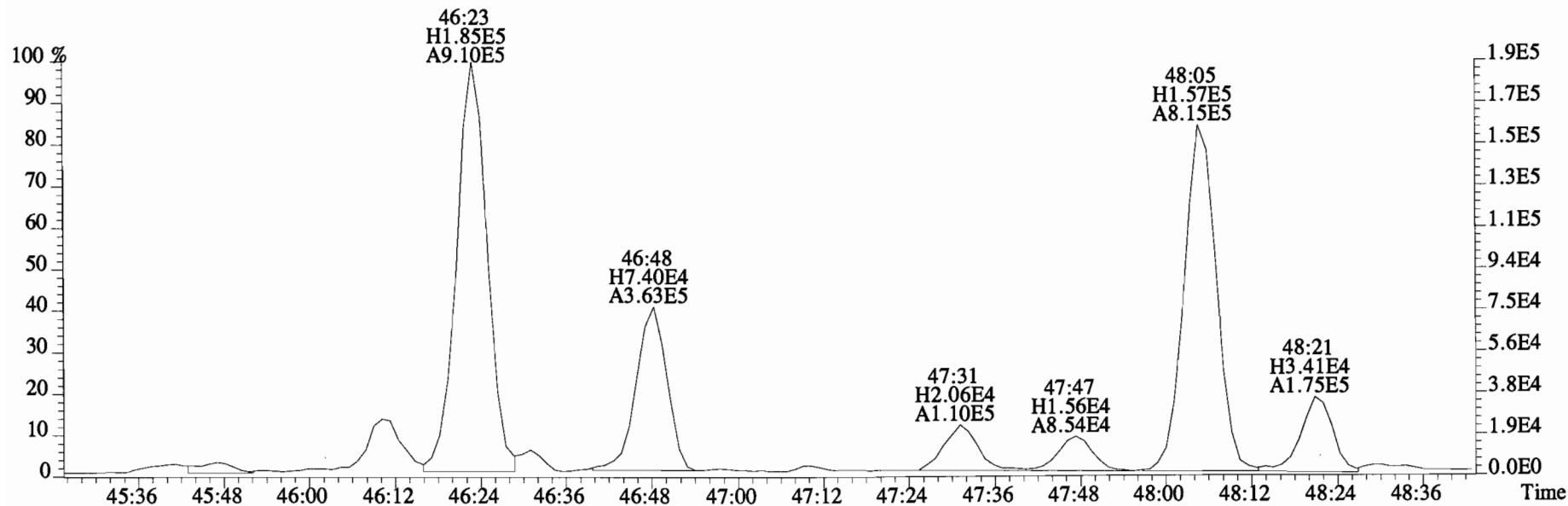
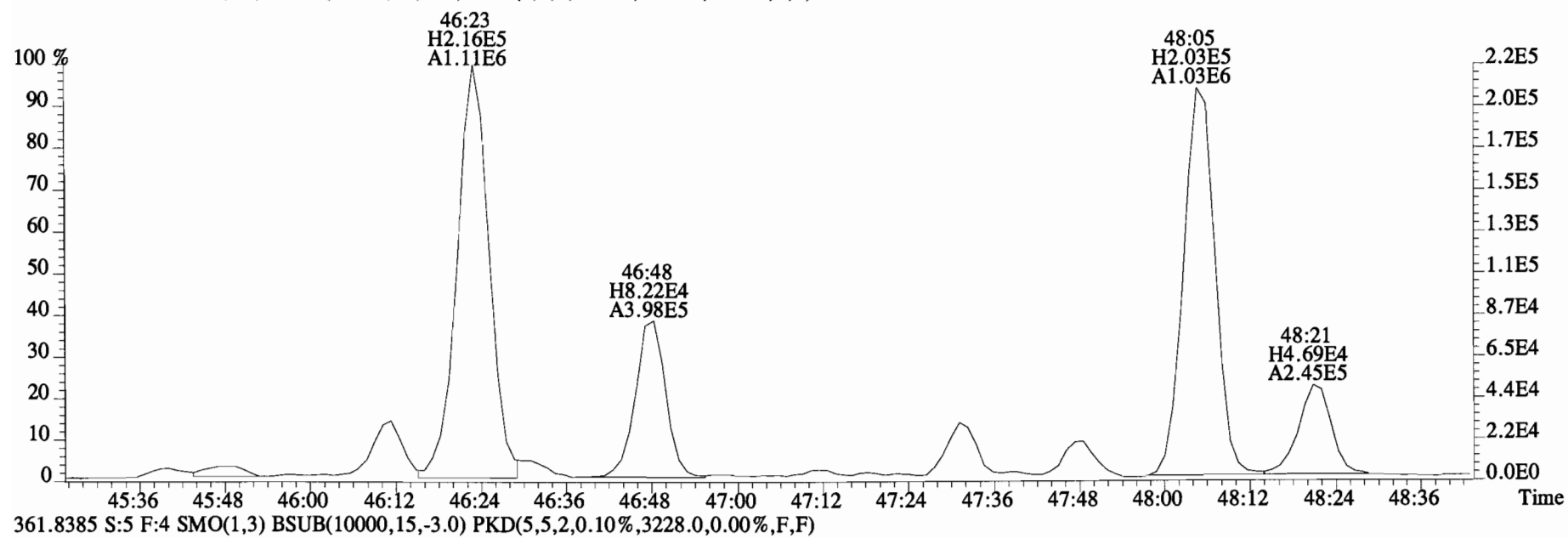
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3712.0,0.00%,F,F)



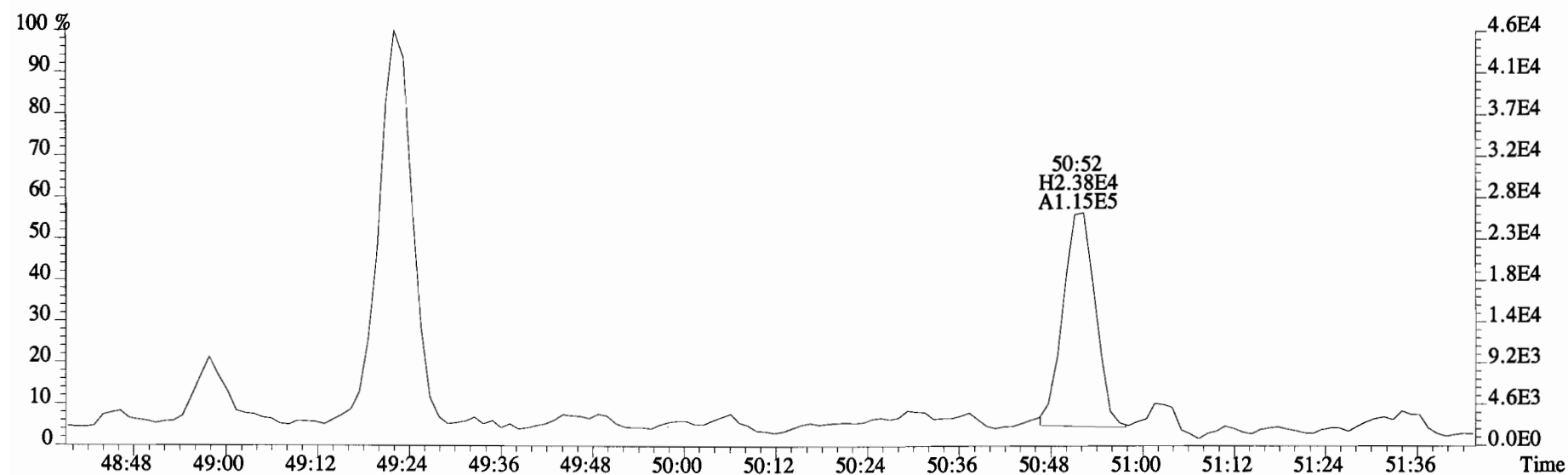
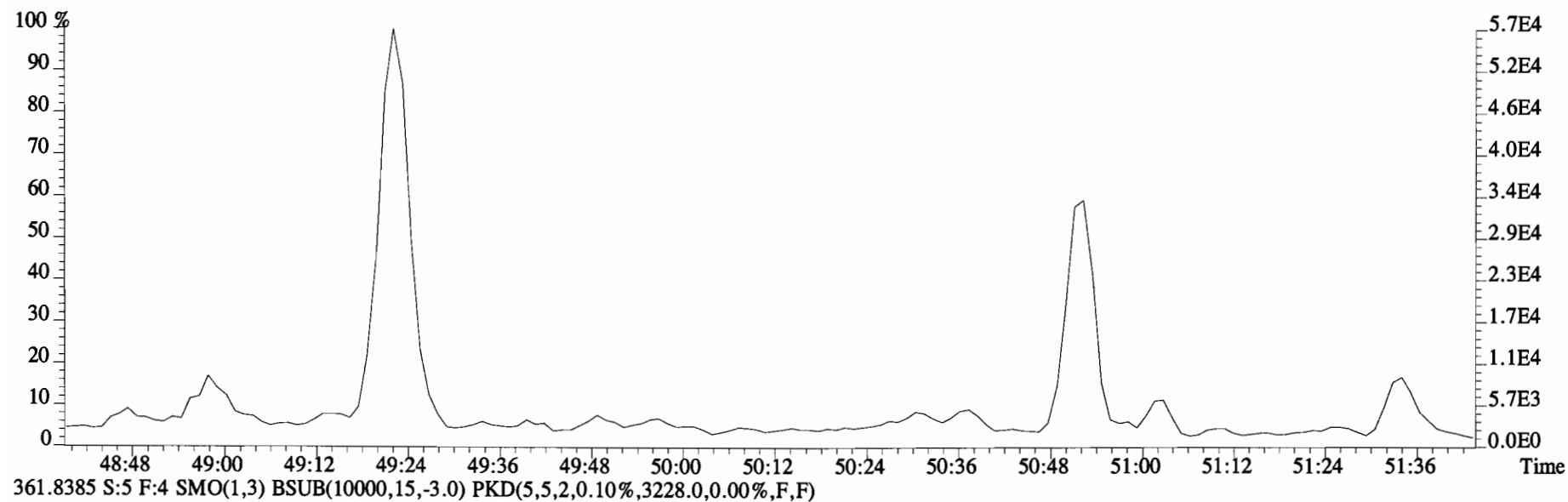
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3712.0,0.00%,F,F)



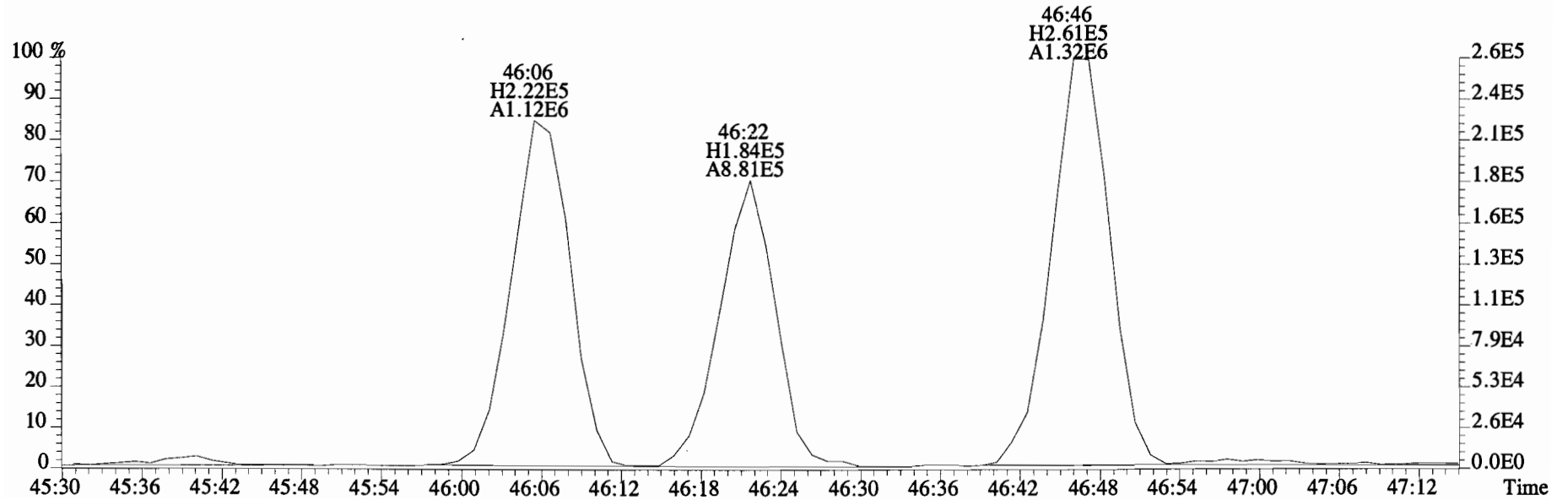
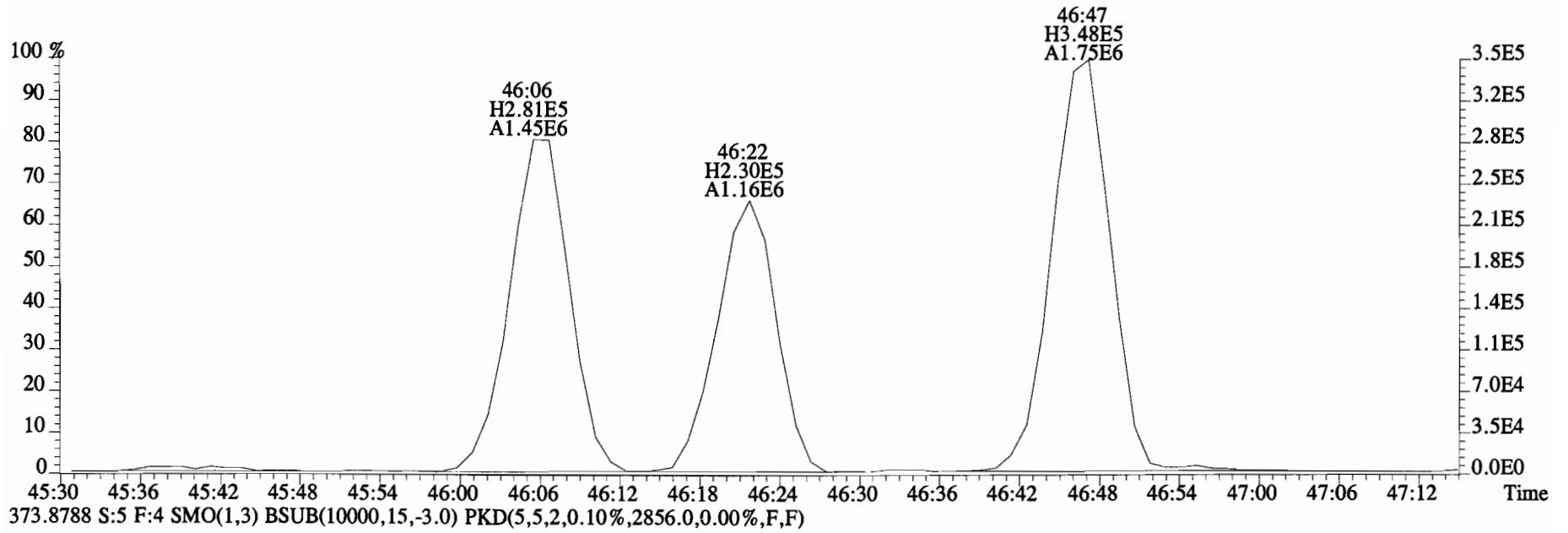
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3712.0,0.00%,F,F)



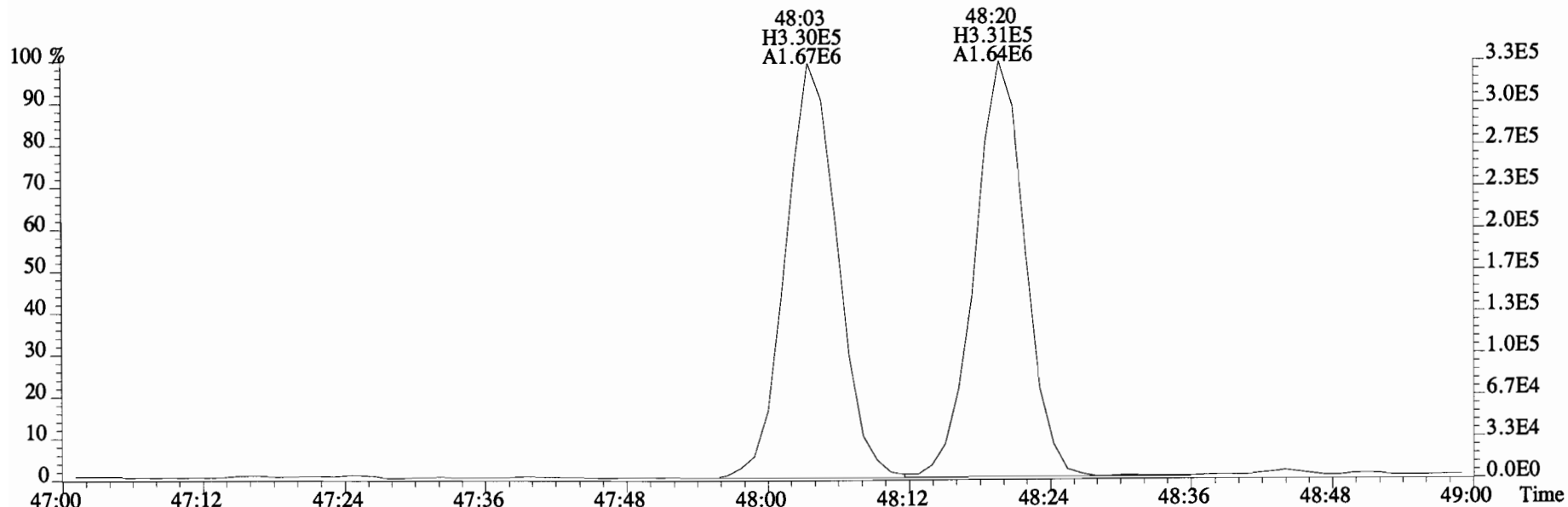
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
359.8415 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3712.0,0.00%,F,F)



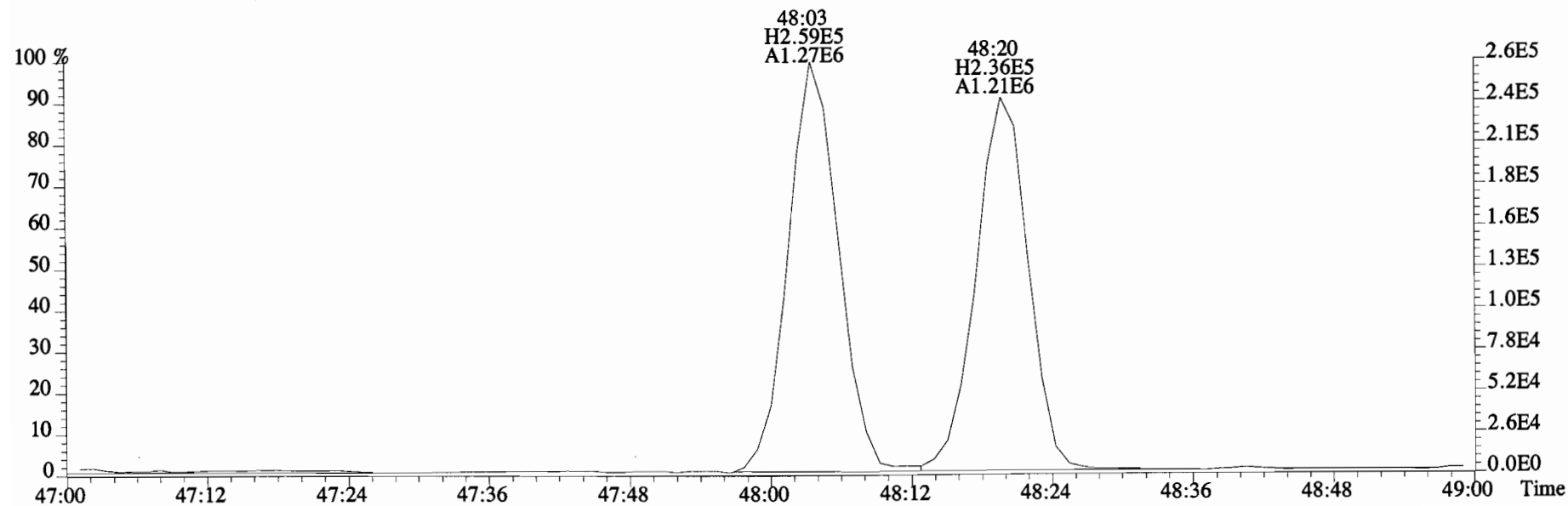
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3088.0,0.00%,F,F)



File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
371.8817 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3088.0,0.00%,F,F)

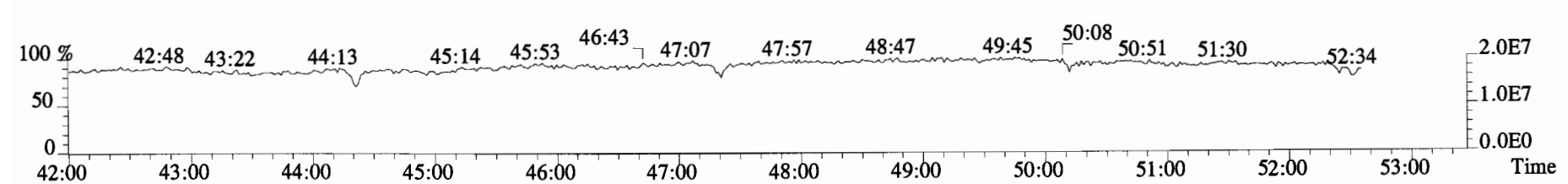
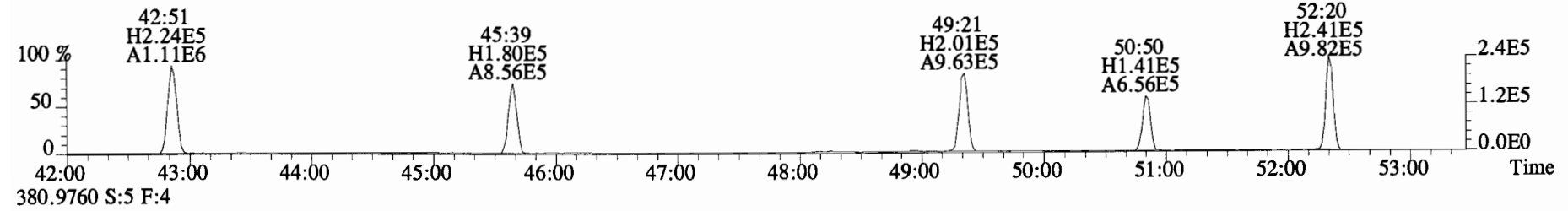
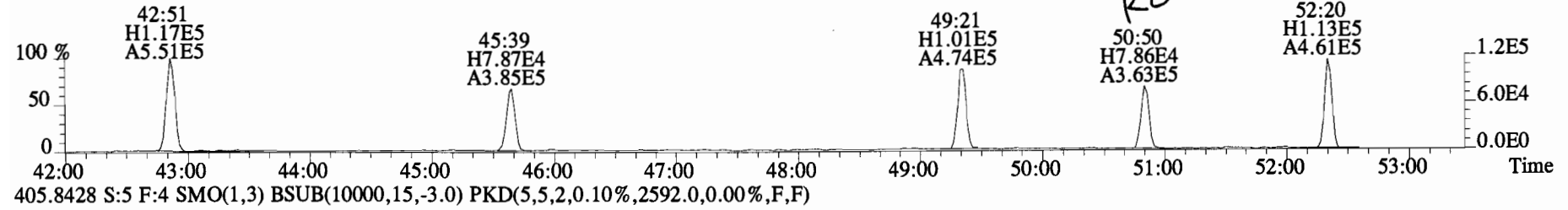
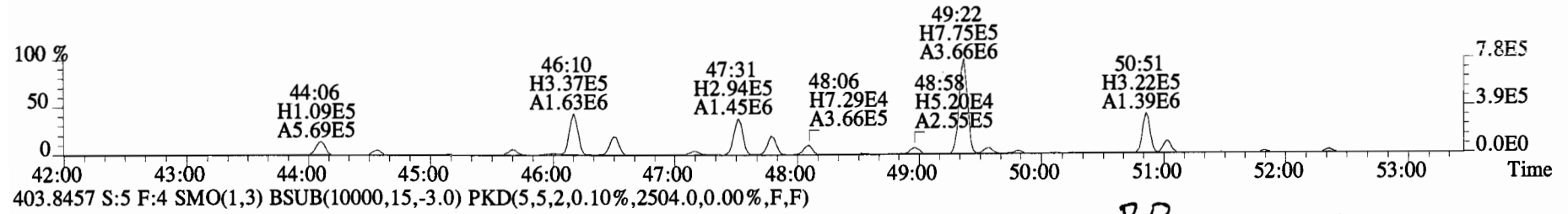
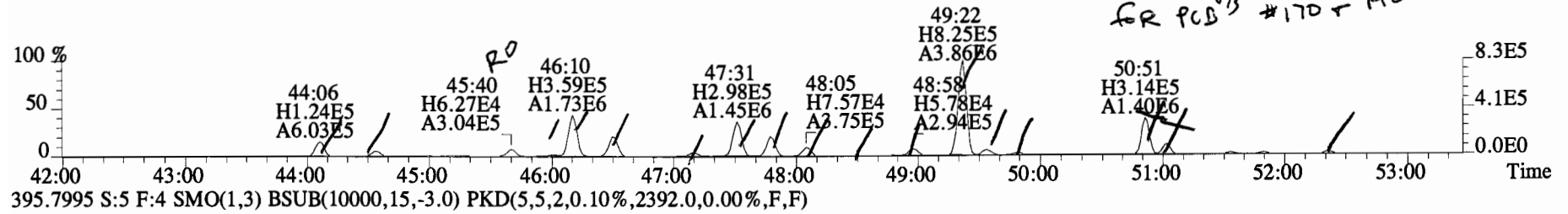


373.8788 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2856.0,0.00%,F,F)

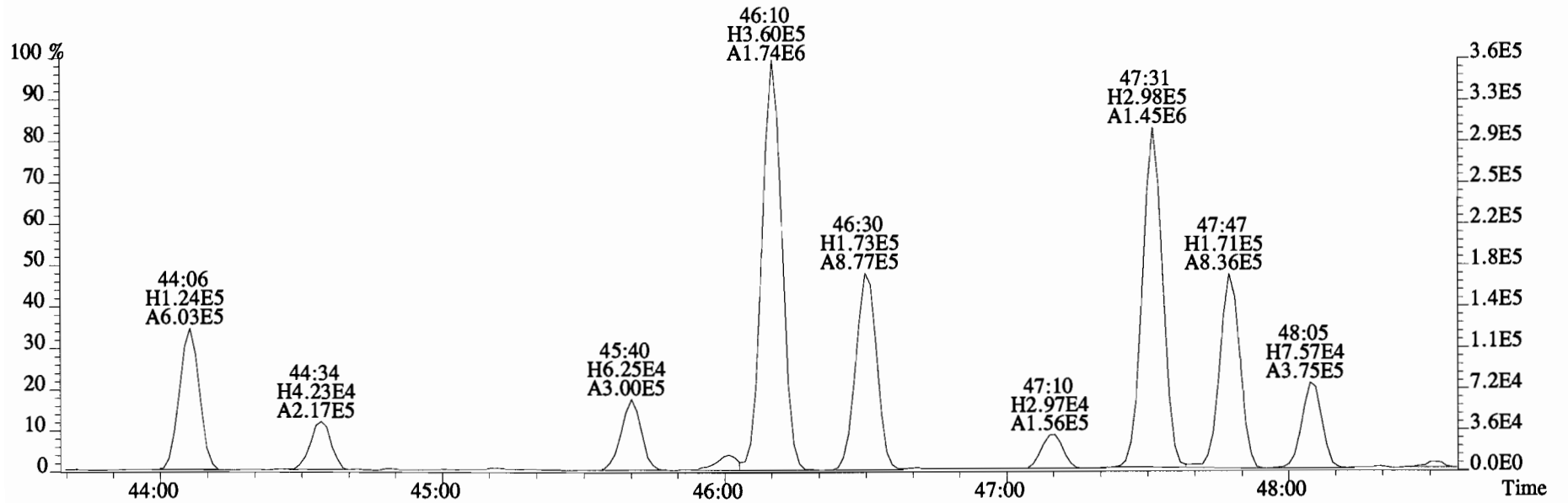


File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2676.0,0.00%,F,F)

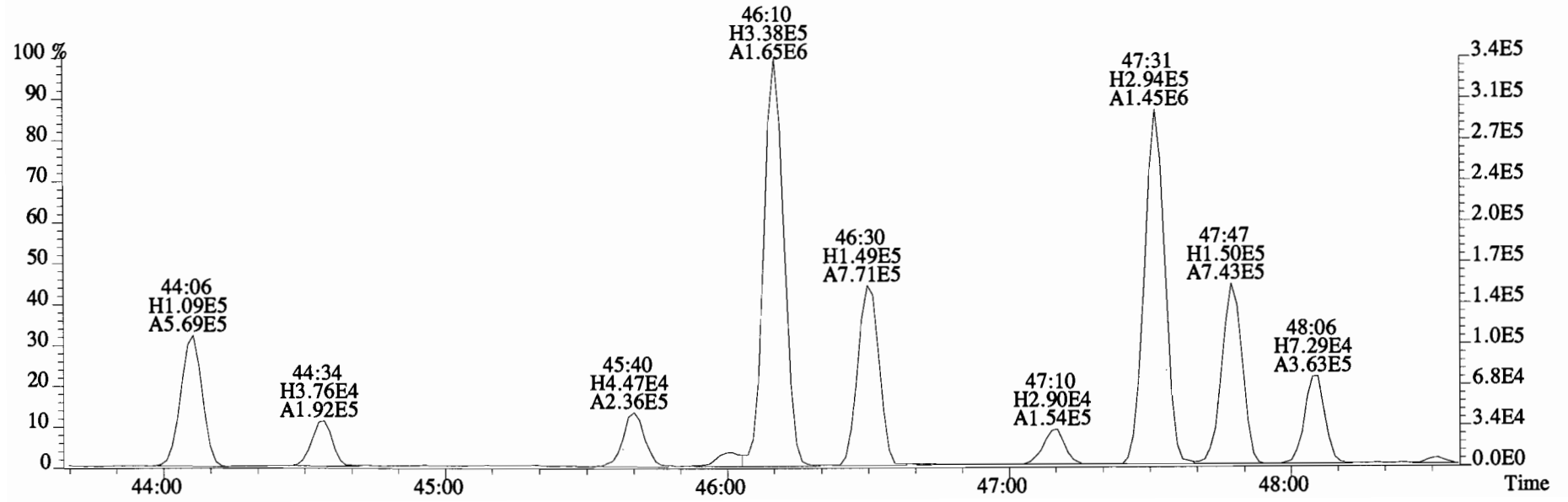
See original injection
for PCB's #170 + 180



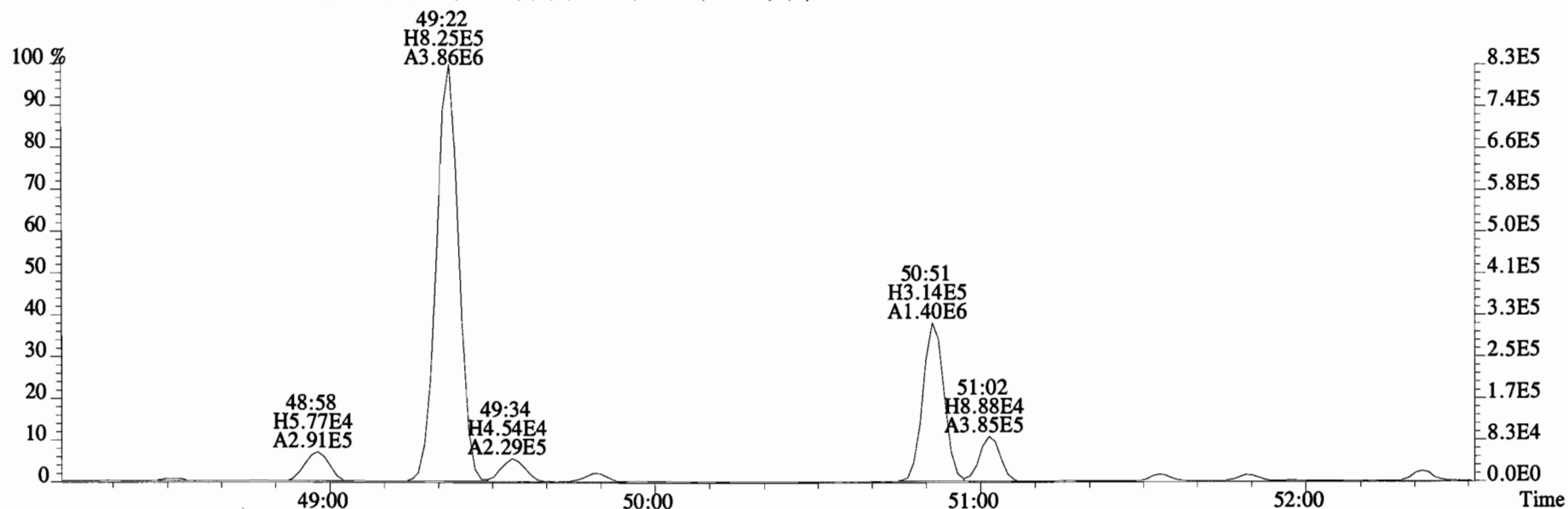
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2676.0,0.00%,F,F)



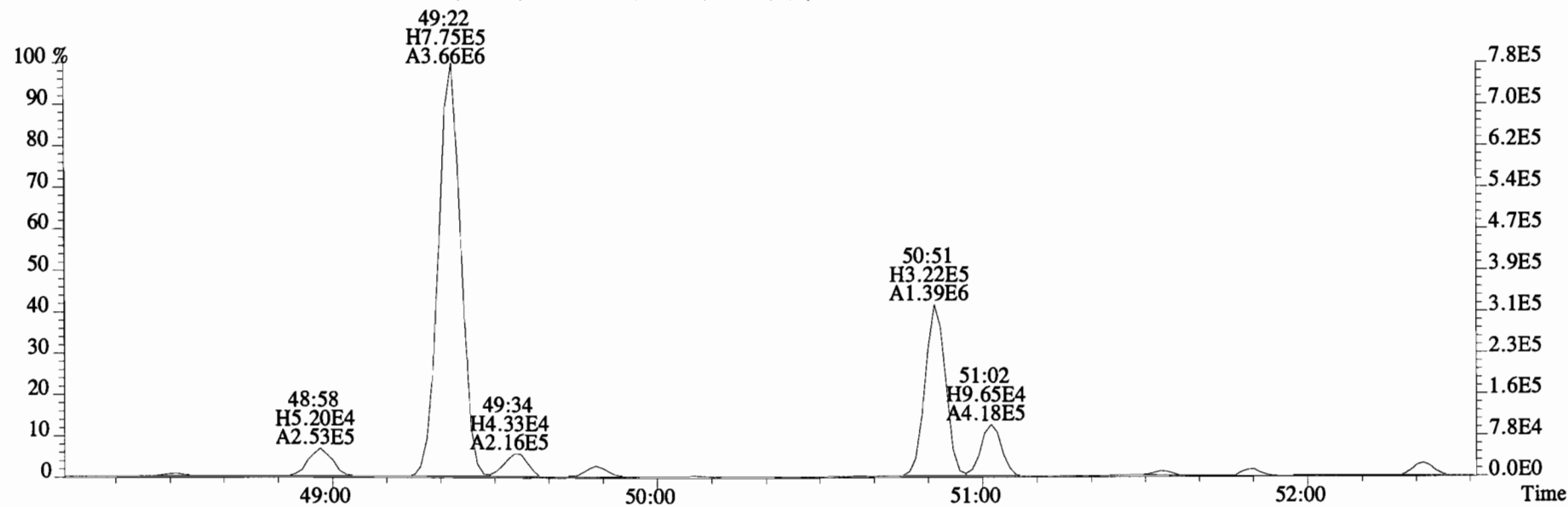
395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2392.0,0.00%,F,F)



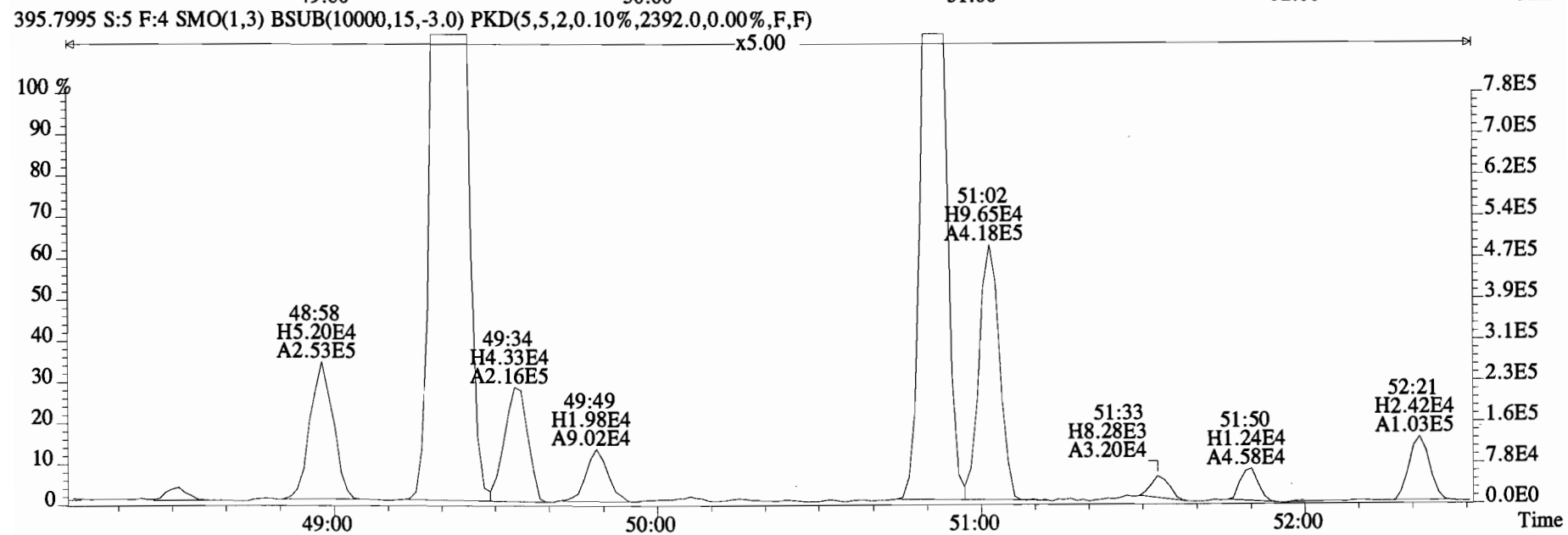
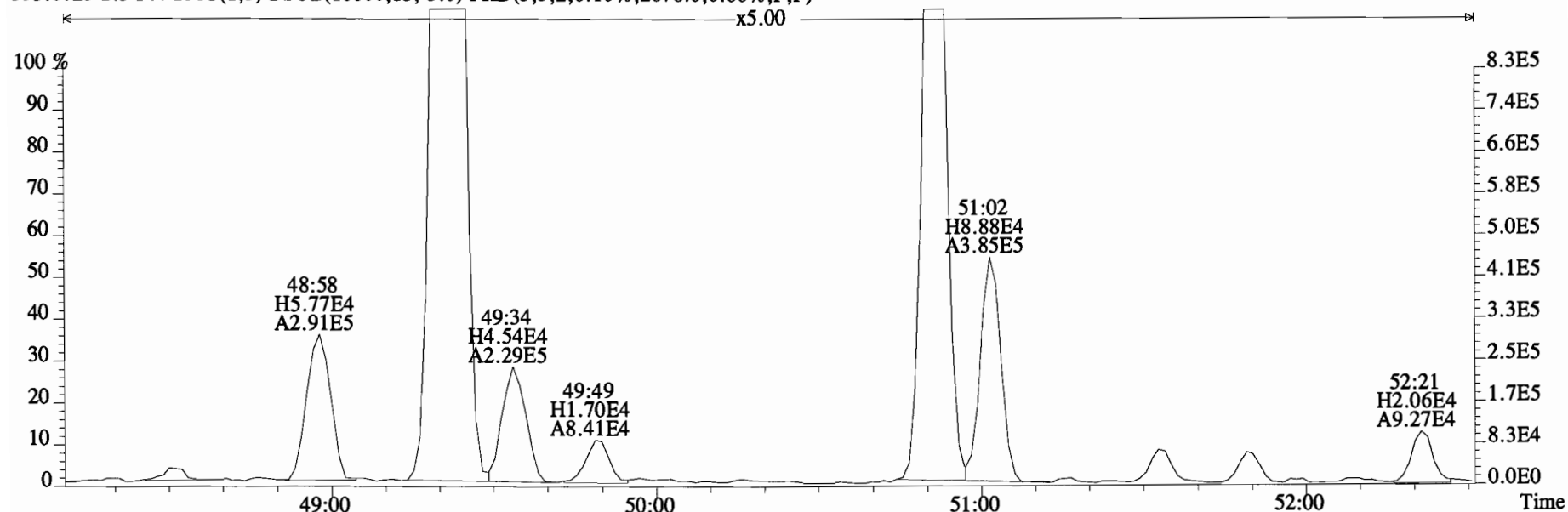
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2676.0,0.00%,F,F)



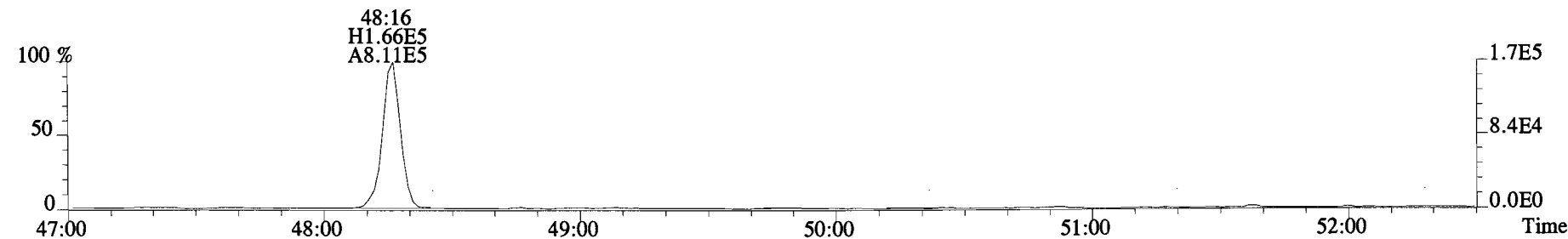
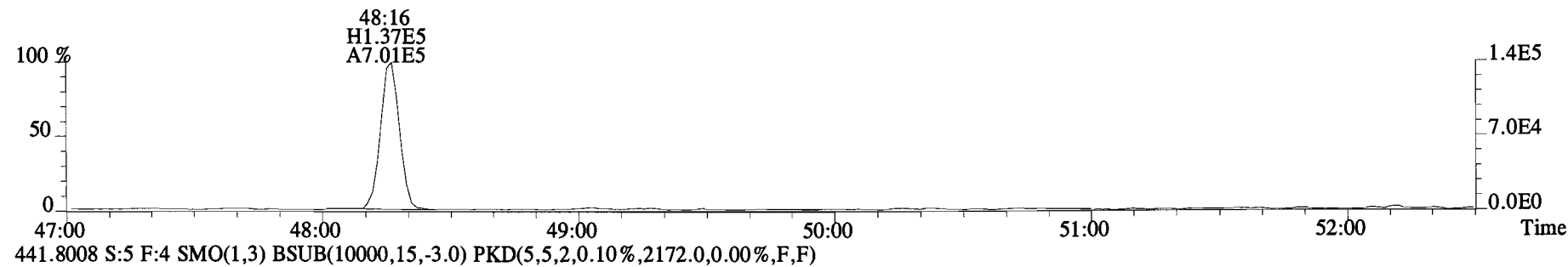
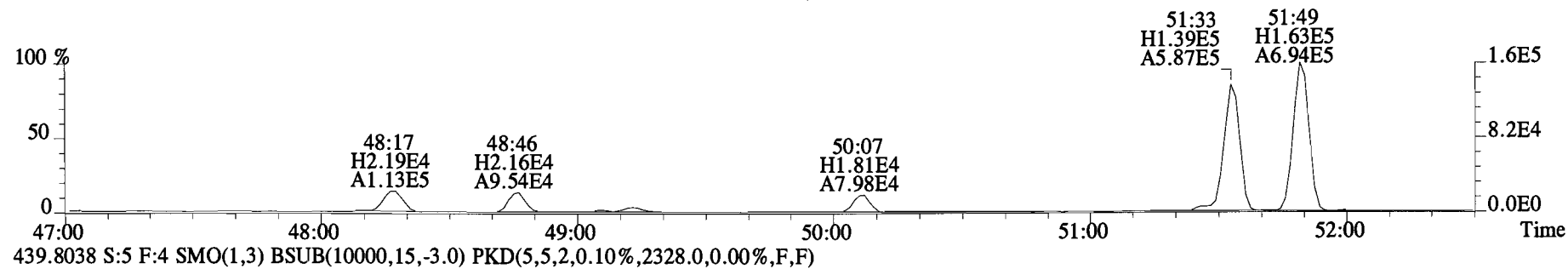
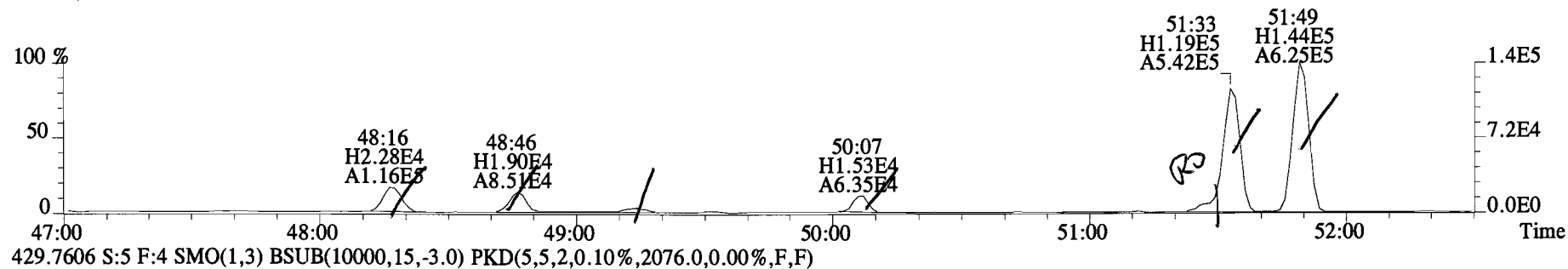
395.7995 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2392.0,0.00%,F,F)



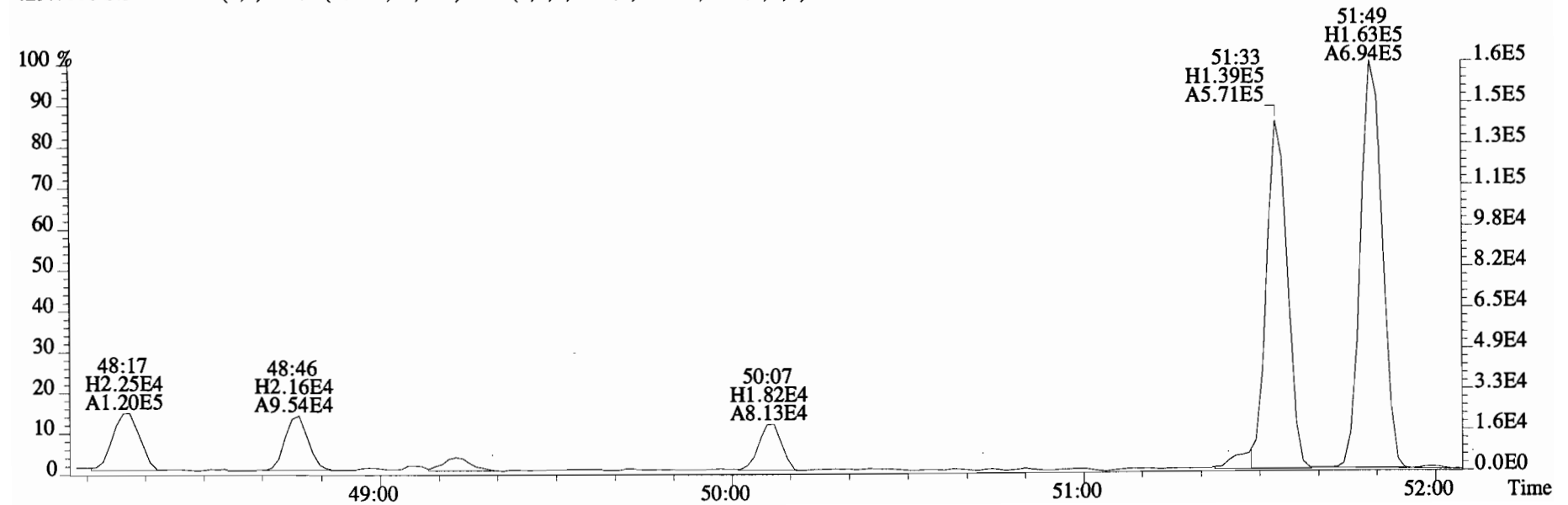
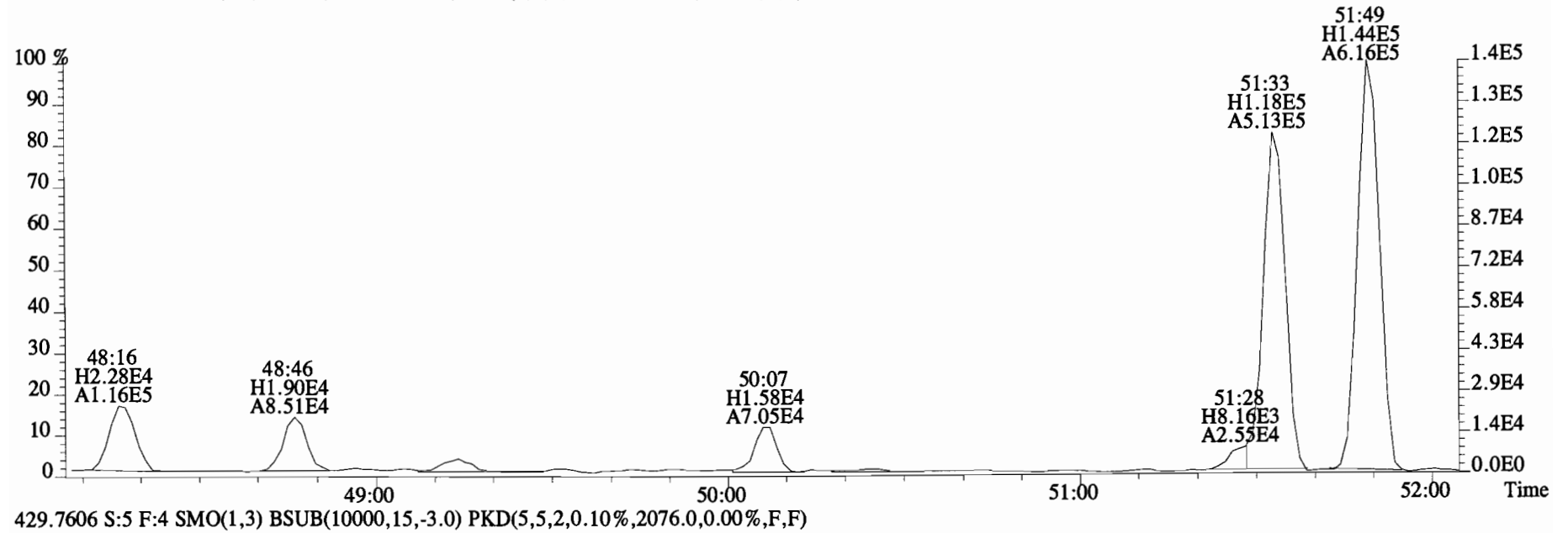
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 393.8025 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2676.0,0.00%,F,F)



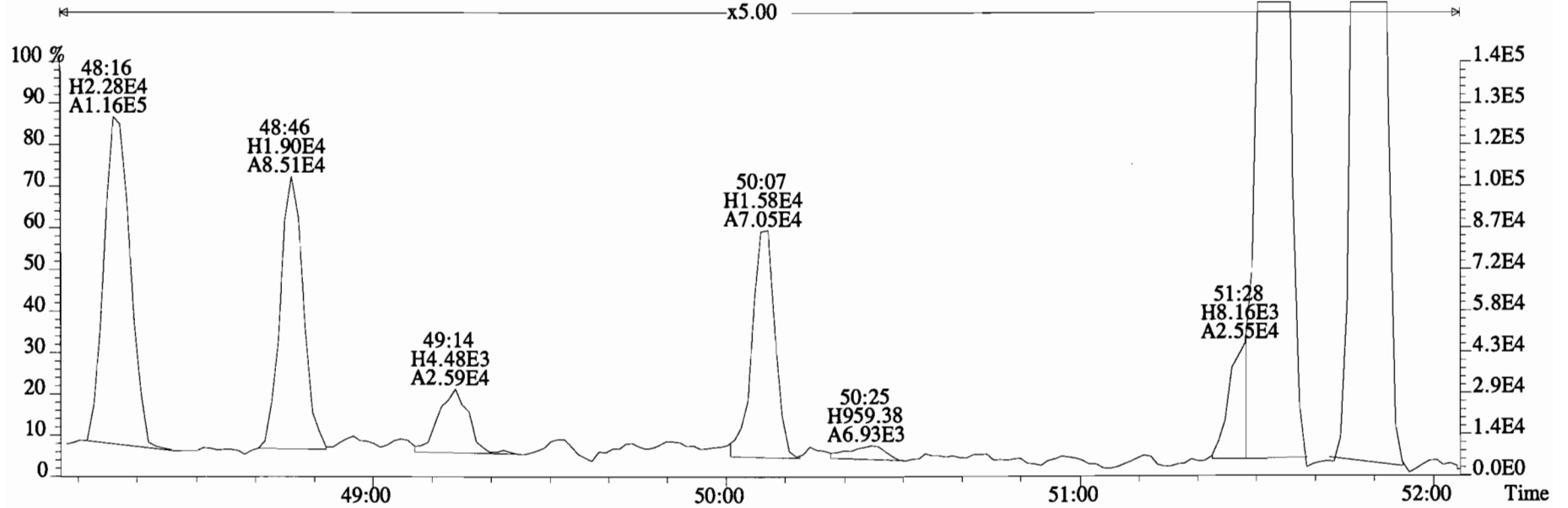
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2188.0,0.00%,F,F)



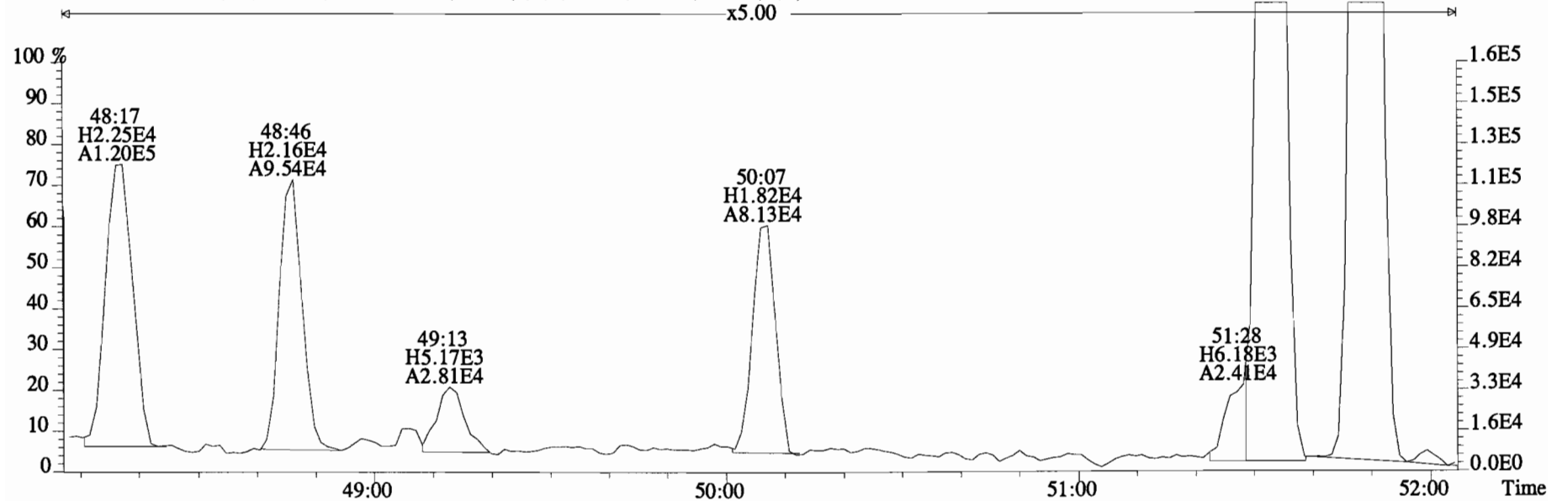
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2188.0,0.00%,F,F)



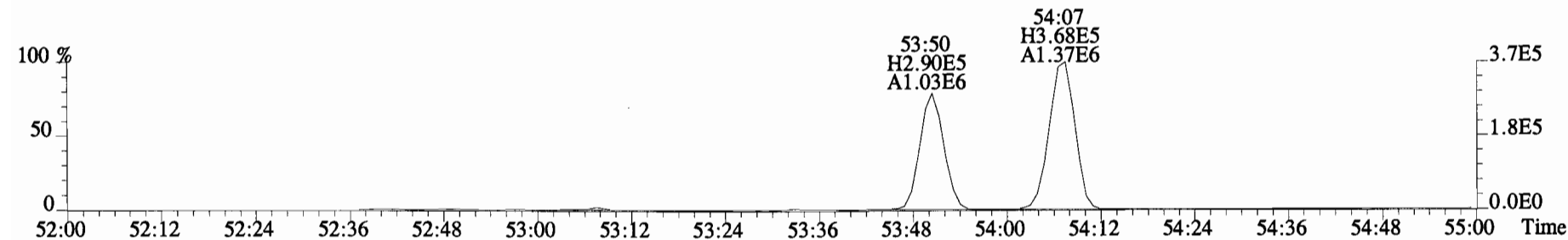
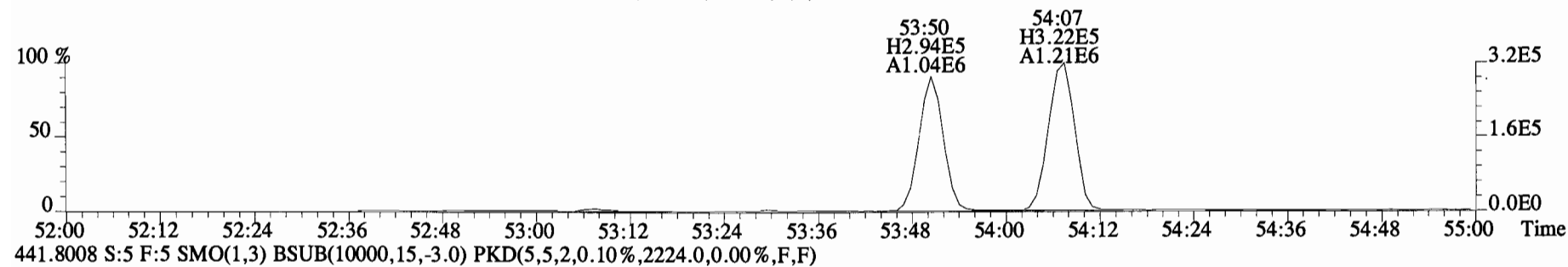
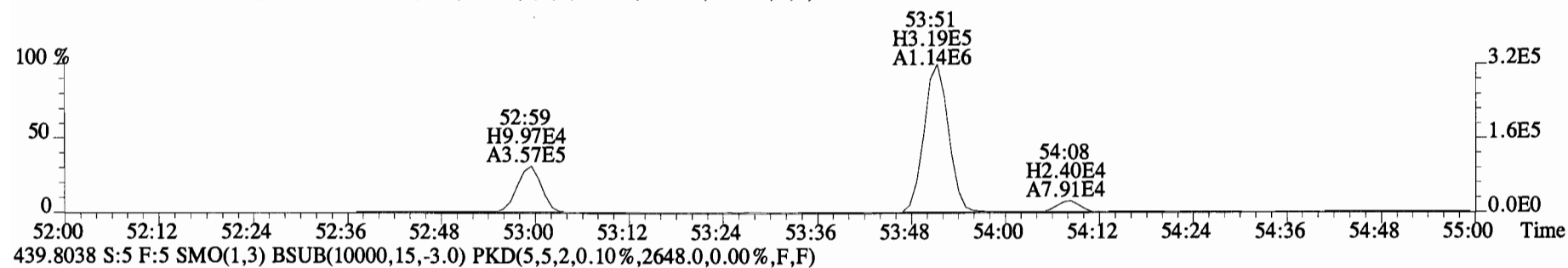
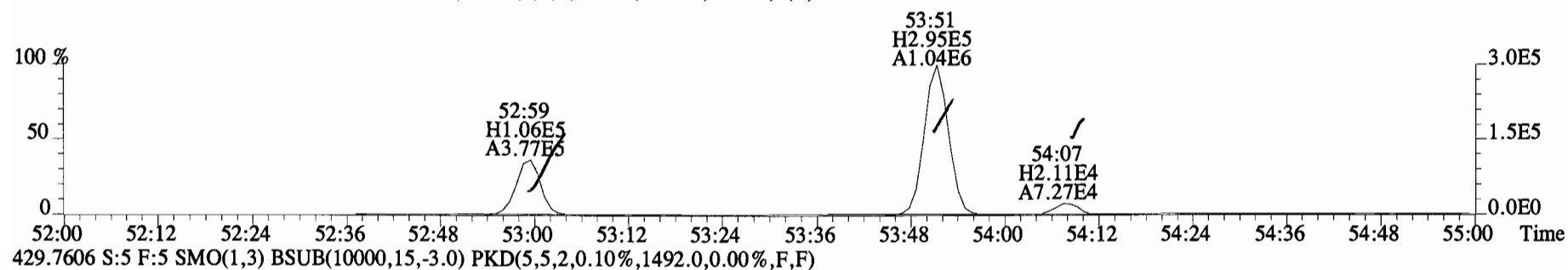
File:150319E1 #1-555 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 427.7635 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2188.0,0.00%,F,F)



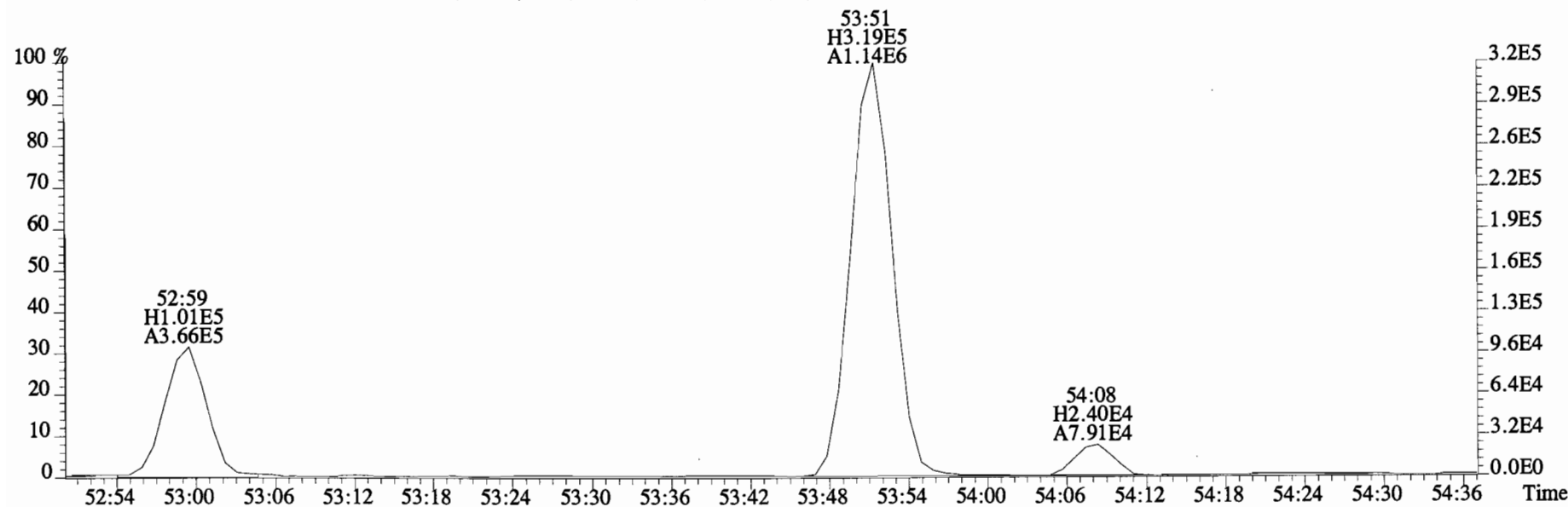
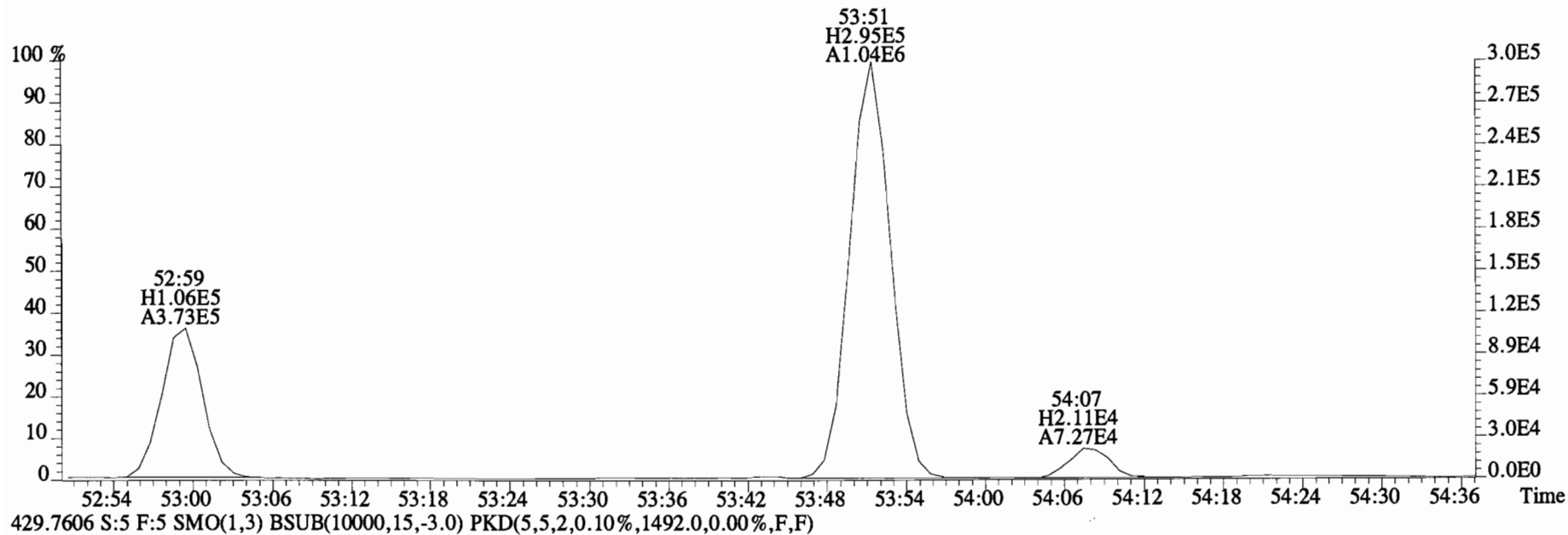
429.7606 S:5 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2076.0,0.00%,F,F)



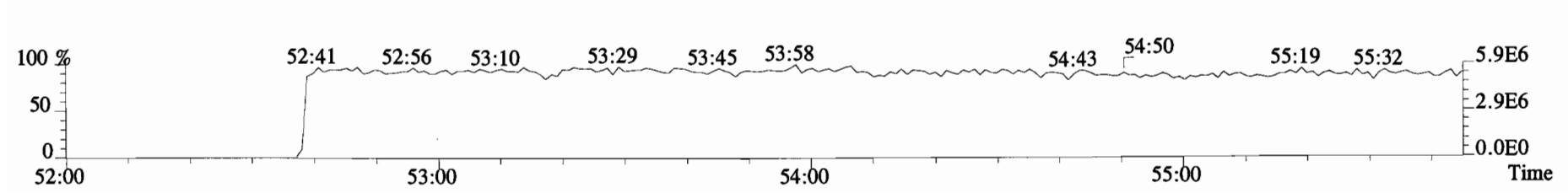
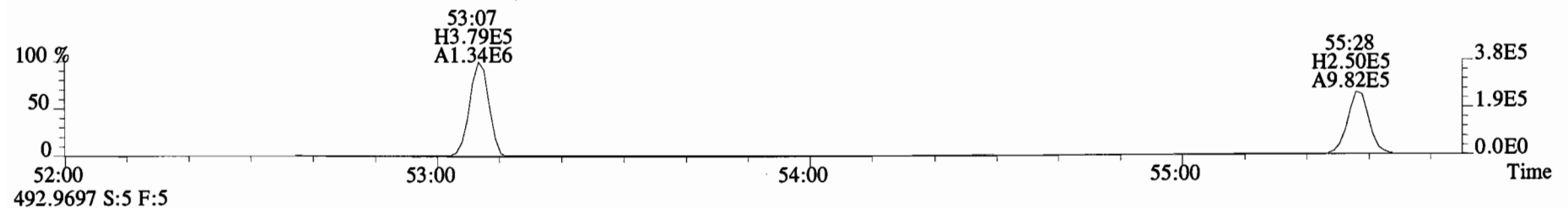
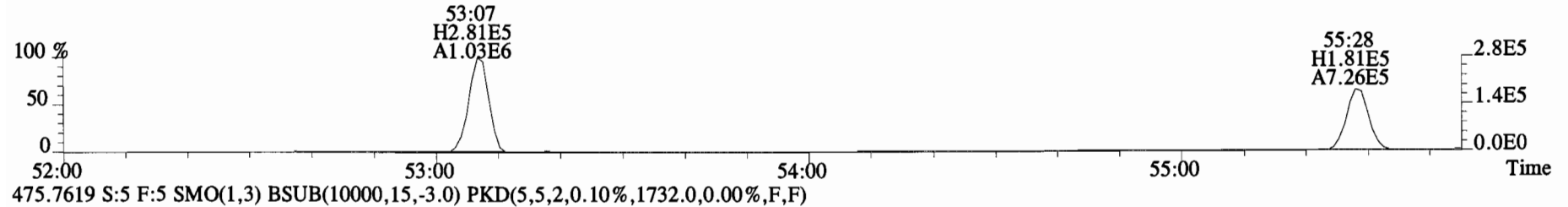
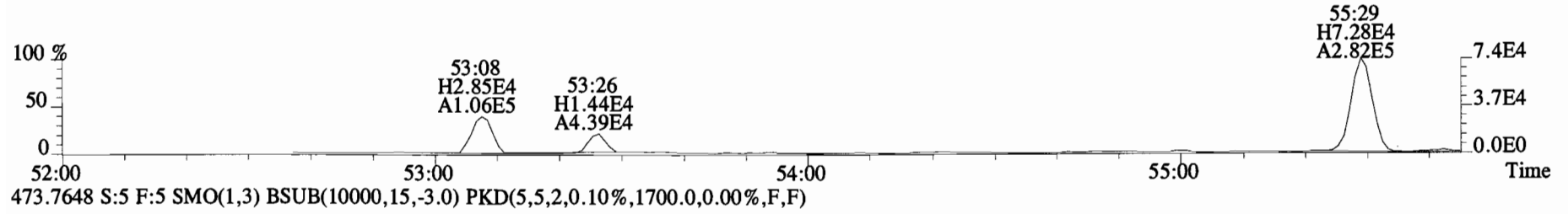
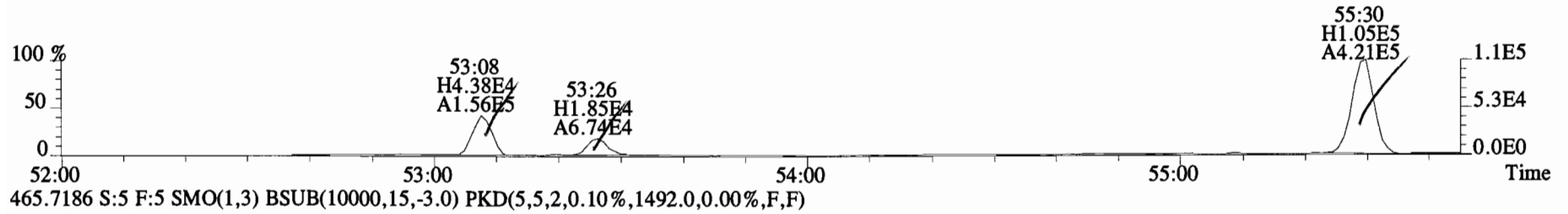
File:150319E1 #1-430 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
429.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1816.0,0.00%,F,F)



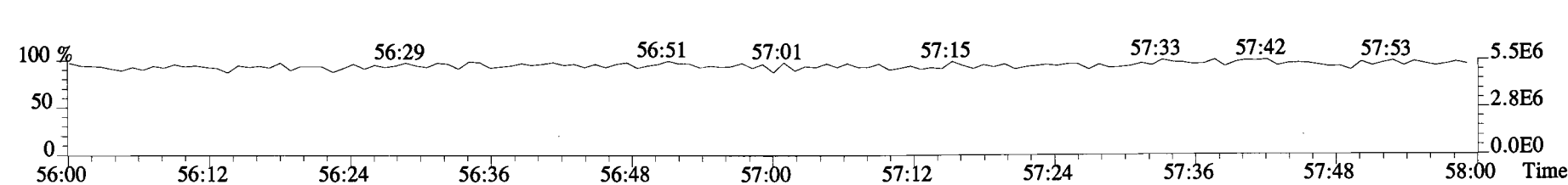
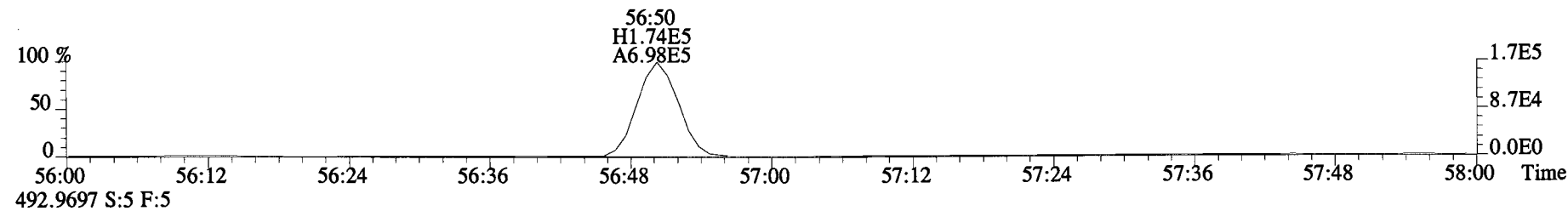
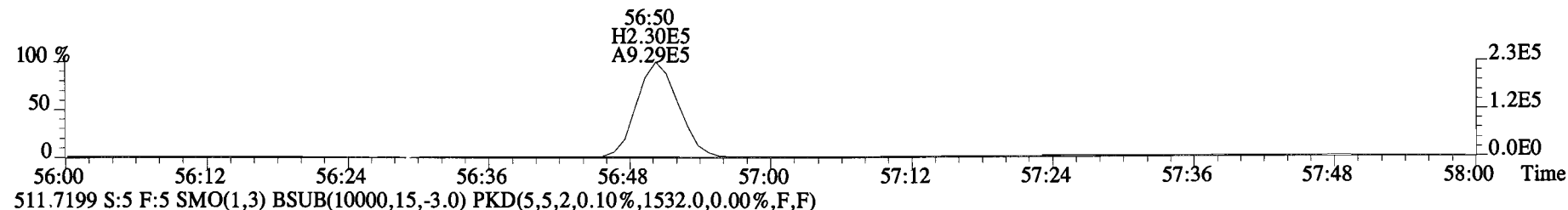
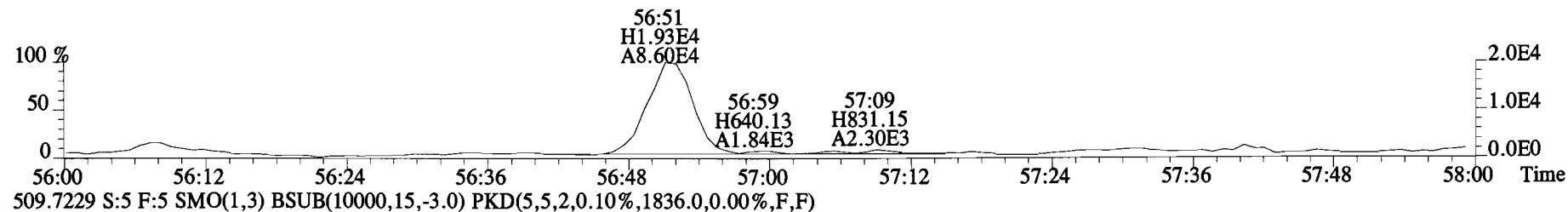
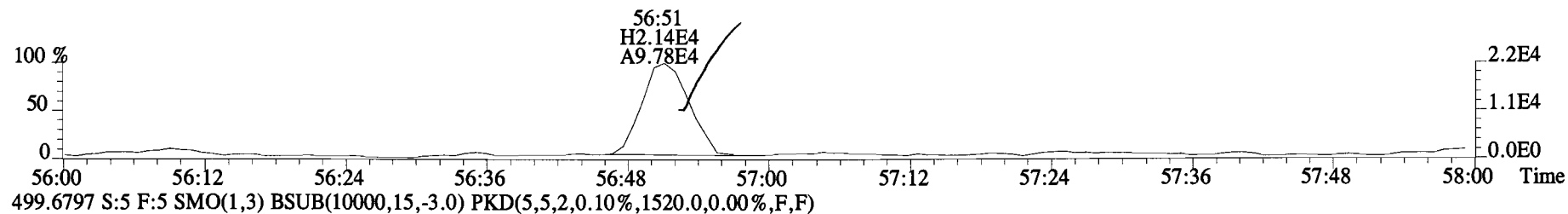
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Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1-
427.7635 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1816.0,0.00%,F,F)



File:150319E1 #1-430 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
 463.7216 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1456.0,0.00%,F,F)



File:150319E1 #1-430 Acq:19-MAR-2015 17:05:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1@20X SC-CB-35-20141211-S Exp:PCB_ZB1
497.6826 S:5 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1476.0,0.00%,F,F)



Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1

Filename: 150318E1 S:10 Acq:18-MAR-15 19:39:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.891


ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n	NotF η	1.72	*	*	2.5	*	*	0.999-1.009	
Hepta	PCB-191	*	*	n	NotF η	1.69	*	*	2.5	*	*	1.004-1.014	
Hepta	PCB-170	2.20e+07	1.06	y	51:09	1.60	16800	X	*	2.5	*	0.995-1.005	
Hepta	PCB-190	5.67e+06	1.04	y	51:19	2.21	3140	↓	*	2.5	1.000	0.998-1.008	
Hepta	PCB-189	*	*	n	NotF η	1.55	*	*	2.5	*	1.003	0.995-1.005	
Octa	PCB-202	*	*	n	NotF η	1.08	*	*	2.5	*	*	0.995-1.005	
Octa	PCB-201	*	*	n	NotF η	1.15	*	*	2.5	*	*	1.005-1.015	
Octa	PCB-204	*	*	n	NotF η	1.14	*	*	2.5	*	*	1.008-1.018	
Octa	PCB-197	*	*	n	NotF η	1.07	*	*	2.5	*	*	1.015-1.025	
Octa	PCB-200	*	*	n	NotF η	1.06	*	*	2.5	*	*	1.032-1.044	
Octa	PCB-198	*	*	n	NotF η	0.76	*	*	2.5	*	*	1.059-1.069	
Octa	PCB-199	*	*	n	NotF η	0.80	*	*	2.5	*	*	1.061-1.071	
Octa	PCB-196/203	*	*	n	NotF η	0.80	*	*	2.5	*	*	1.066-1.076	
Octa	PCB-195	*	*	n	NotF η	1.23	*	*	2.5	*	*	0.979-0.989	
Octa	PCB-194	*	*	n	NotF η	1.21	*	*	2.5	*	*	0.995-1.005	
Octa	PCB-205	*	*	n	NotF η	1.54	*	*	2.5	*	*	1.001-1.011	
Nona	PCB-208	*	*	n	NotF η	0.93	*	*	2.5	*	*	0.995-1.005	
Nona	PCB-207	*	*	n	NotF η	1.08	*	*	2.5	*	*	1.001-1.011	
Nona	PCB-206	*	*	n	NotF η	1.02	*	*	2.5	*	*	0.995-1.005	
Deca	PCB-209	*	*	n	NotF η	1.17	*	*	2.5	*	*	0.995-1.005	

* used only

Analyst: DMS

Date: 3/26/15


3/27/15

Client ID: SC-CB-35-20141211-S
Lab ID: 1400948-02RE1

Filename: 150318E1 S:10 Acq:18-MAR-15 19:39:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.8909 EndCAL: NA

ConCal: ST150318E1-1

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	2.77e+07	1.06 y	51:09	1.42	19981.6
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:19981.5960600

Integrations

by

Analyst: Dms

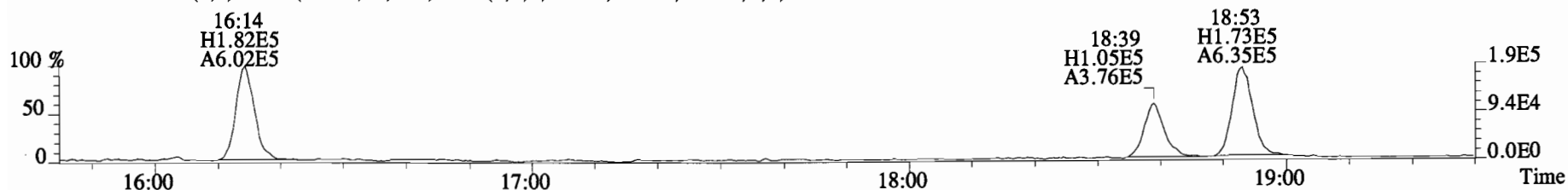
Date: 3/26/15

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	*	0.629-0.635		*	*											
13C-PCB-3	*	n	0.91	NotFnd	*	0.725-0.733		*	*											
13C-PCB-4	*	n	0.59	NotFnd	*	0.775-0.783		*	*	13C-PCB-79	*	n	1.02	NotFnd	*		1.023-1.034		*	*
13C-PCB-9	*	n	0.90	NotFnd	*	0.842-0.850		*	*	13C-PCB-178	*	n	0.61	NotFnd	*		0.979-0.990		*	*
13C-PCB-11	*	n	0.94	NotFnd	*	0.968-0.978		*	*											
13C-PCB-19	*	n	0.53	NotFnd	*	0.930-0.940		*	*	PS vs. IS										
13C-PCB-28	*	n	0.93	NotFnd	*	0.999-1.009		*	*											
13C-PCB-32	*	n	0.80	NotFnd	*	1.040-1.050		*	*											
13C-PCB-37	*	n	0.84	NotFnd	*	1.131-1.143		*	*											
13C-PCB-47	*	n	0.81	NotFnd	*	0.866-0.874		*	*											
13C-PCB-52	*	n	0.77	NotFnd	*	0.853-0.861		*	*											
13C-PCB-54	*	n	0.97	NotFnd	*	0.758-0.766		*	*											
13C-PCB-70	*	n	1.00	NotFnd	*	0.961-0.971		*	*											
13C-PCB-77	*	n	0.94	NotFnd	*	1.073-1.083		*	*											
13C-PCB-80	*	n	1.03	NotFnd	*	0.972-0.982		*	*											
13C-PCB-81	*	n	0.92	NotFnd	*	1.057-1.067		*	*											
13C-PCB-95	*	n	0.74	NotFnd	*	0.908-0.918		*	*											
13C-PCB-97	*	n	0.70	NotFnd	*	0.984-0.994		*	*	RS										
13C-PCB-101	*	n	0.78	NotFnd	*	0.951-0.961		*	*											
13C-PCB-104	*	n	1.00	NotFnd	*	0.828-0.836		*	*											
13C-PCB-105	*	n	1.37	NotFnd	*	0.924-0.934		*	*											
13C-PCB-114	*	n	1.36	NotFnd	*	0.905-0.915		*	*											
13C-PCB-118	*	n	0.96	NotFnd	*	1.054-1.064		*	*											
13C-PCB-123	*	n	0.89	NotFnd	*	1.050-1.060		*	*											
13C-PCB-126	*	n	1.31	NotFnd	*	0.972-0.982		*	*											
13C-PCB-127	*	n	1.47	NotFnd	*	0.931-0.941		*	*											
13C-PCB-138	*	n	1.10	NotFnd	*	0.961-0.971		*	*											
13C-PCB-141	*	n	1.07	NotFnd	*	0.943-0.953		*	*											
13C-PCB-153	*	n	1.15	NotFnd	*	0.927-0.937		*	*											
13C-PCB-155	*	n	0.84	NotFnd	*	0.939-0.949		*	*											
13C-PCB-156	*	n	1.30	NotFnd	*	1.032-1.042		*	*											
13C-PCB-157	*	n	1.36	NotFnd	*	1.038-1.048		*	*											
13C-PCB-159	*	n	1.25	NotFnd	*	0.989-0.999		*	*											
13C-PCB-167	*	n	1.35	NotFnd	*	1.004-1.014		*	*											
13C-PCB-169	*	n	1.29	NotFnd	*	1.083-1.093		*	*											
13C-PCB-170	8.64e+06	0.48	y	0.54	51:09	1.095		12000	114											
13C-PCB-180	*	n	0.68	NotFnd	*	1.060-1.070		*	*											
13C-PCB-188	*	n	0.92	NotFnd	*	0.919-0.929		*	*											
13C-PCB-189	*	n	0.72	NotFnd	*	1.120-1.132		*	*											
13C-PCB-194	*	n	0.80	NotFnd	*	0.990-1.000		*	*											
13C-PCB-202	*	n	0.84	NotFnd	*	1.036-1.046		*	*											
13C-PCB-206	*	n	0.65	NotFnd	*	1.021-1.031		*	*											
13C-PCB-208	*	n	1.08	NotFnd	*	0.976-0.986		*	*											
13C-PCB-209	*	n	0.61	NotFnd	*	1.045-1.055		*	*											

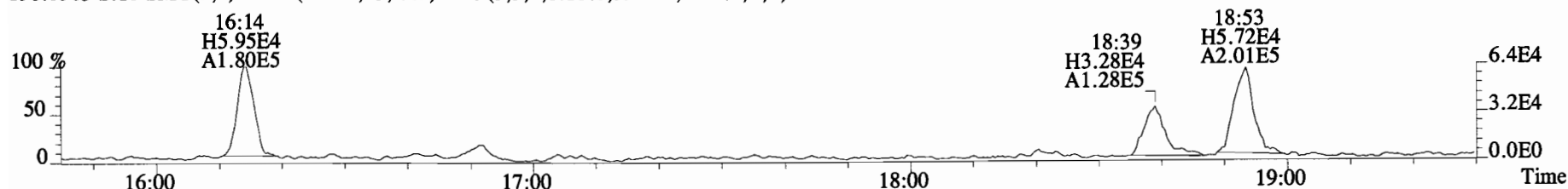
Analyst: *DMS*

Date: *3/26/15*

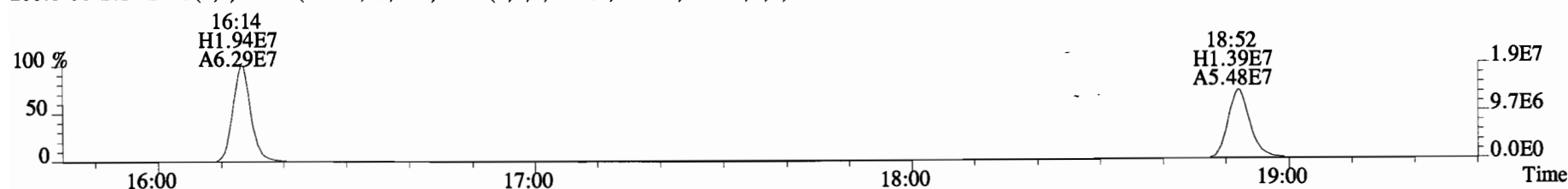
File:150318E1 #1-866 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
 188.0393 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5940.0,0.00%,F,F)



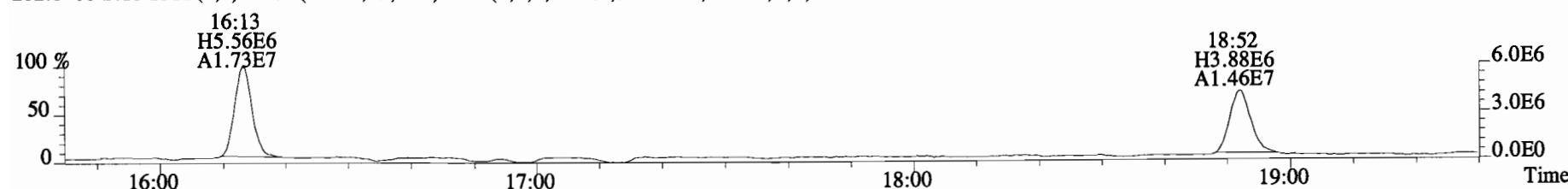
190.0363 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3972.0,0.00%,F,F)



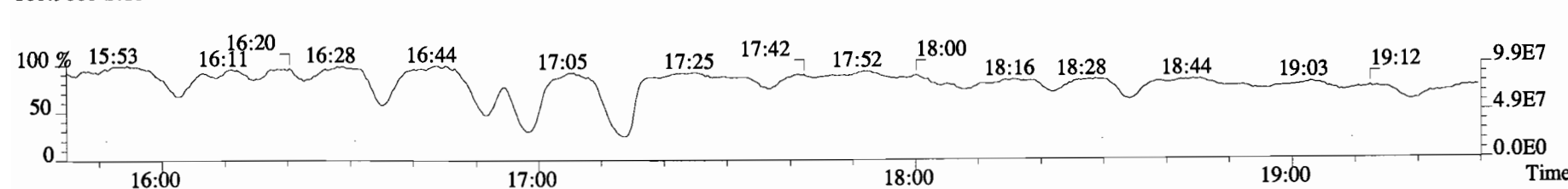
200.0795 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7588.0,0.00%,F,F)



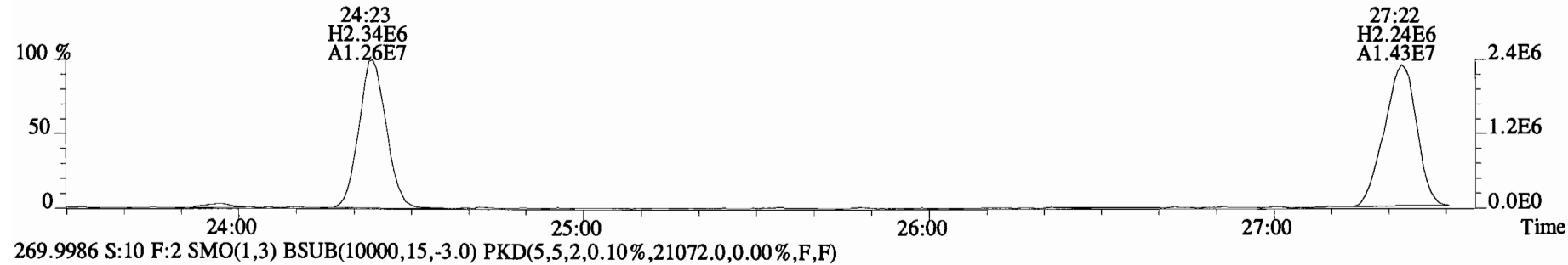
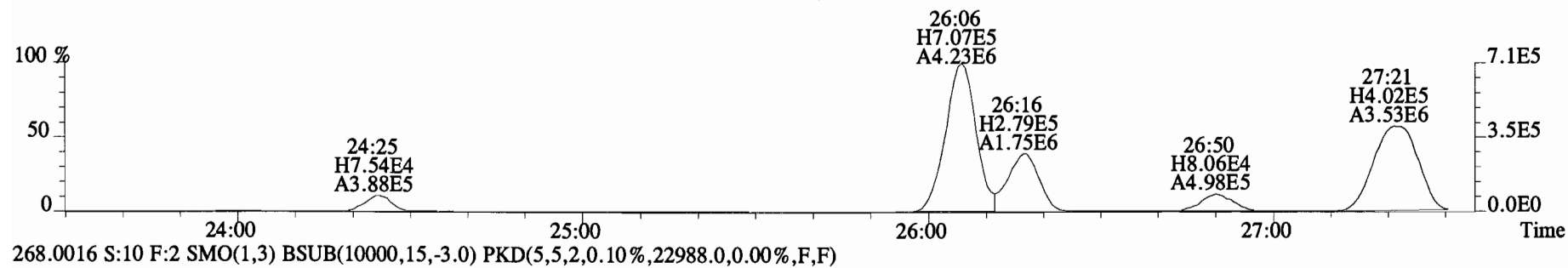
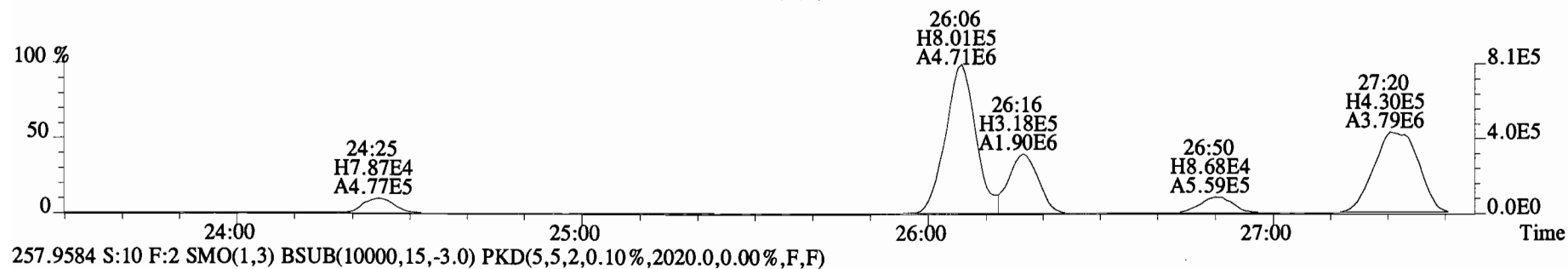
202.0766 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,349312.0,0.00%,F,F)



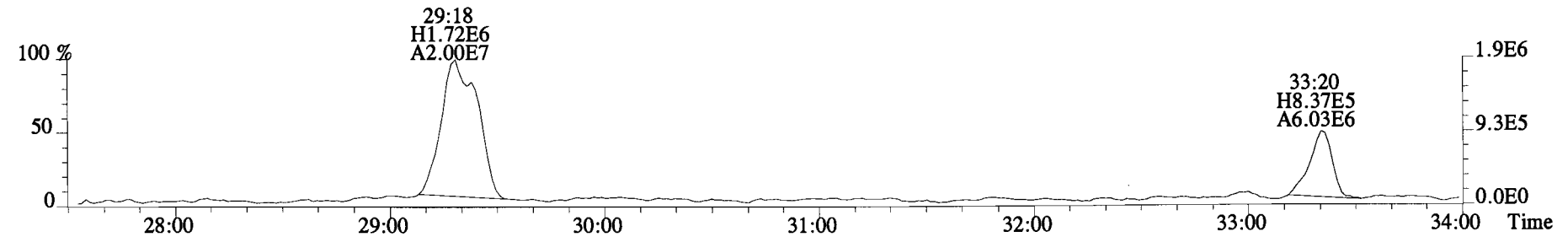
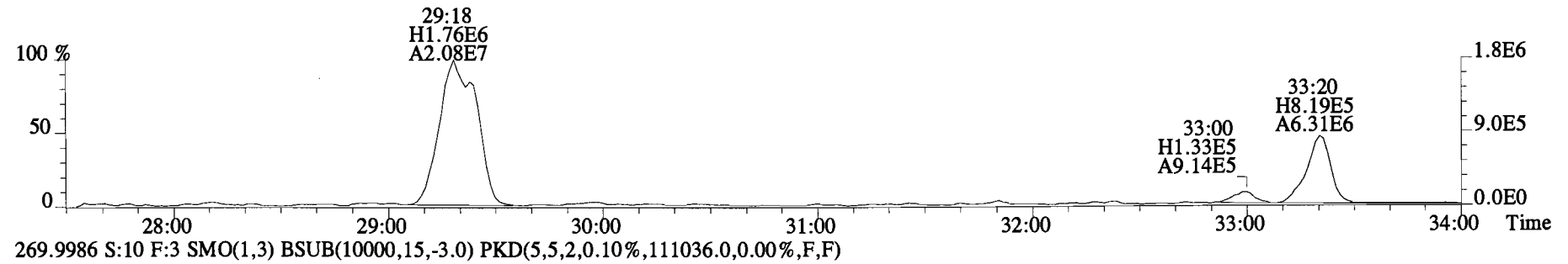
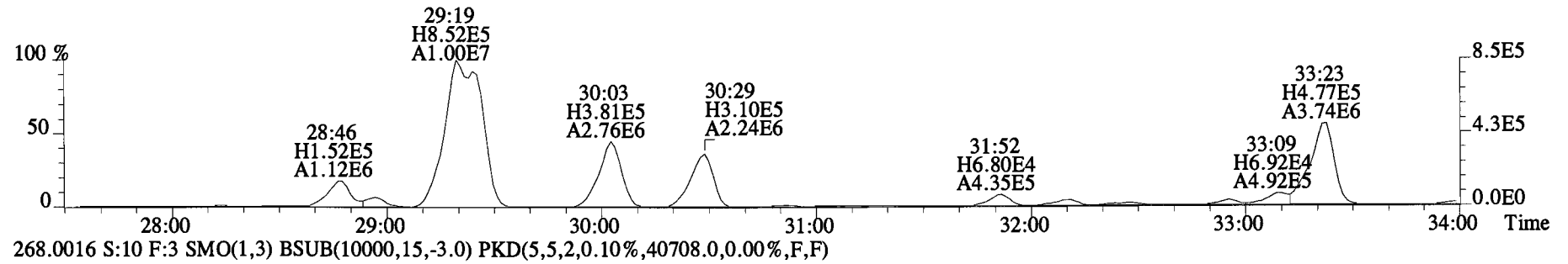
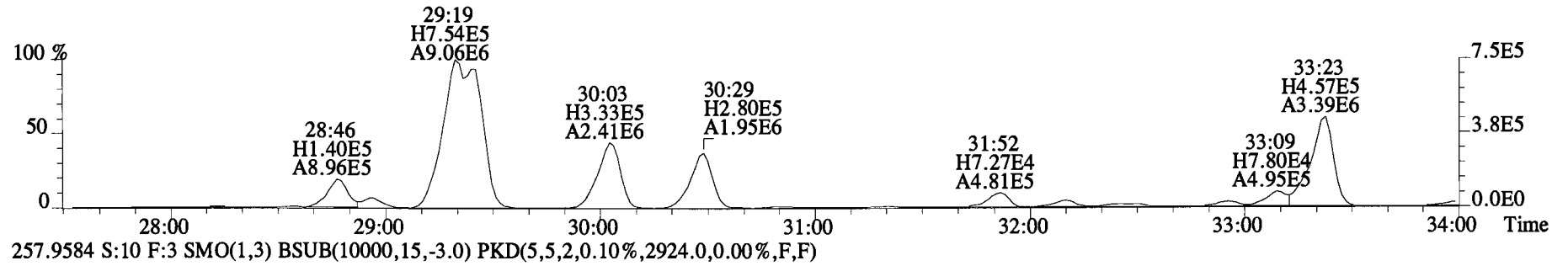
180.9880 S:10



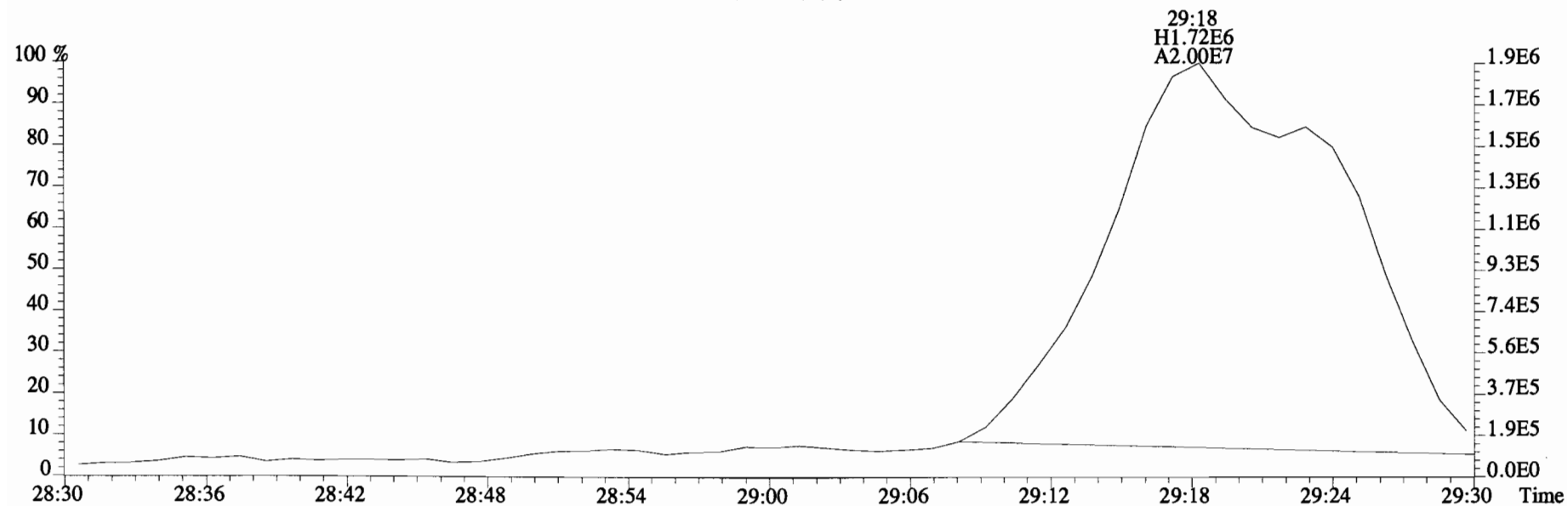
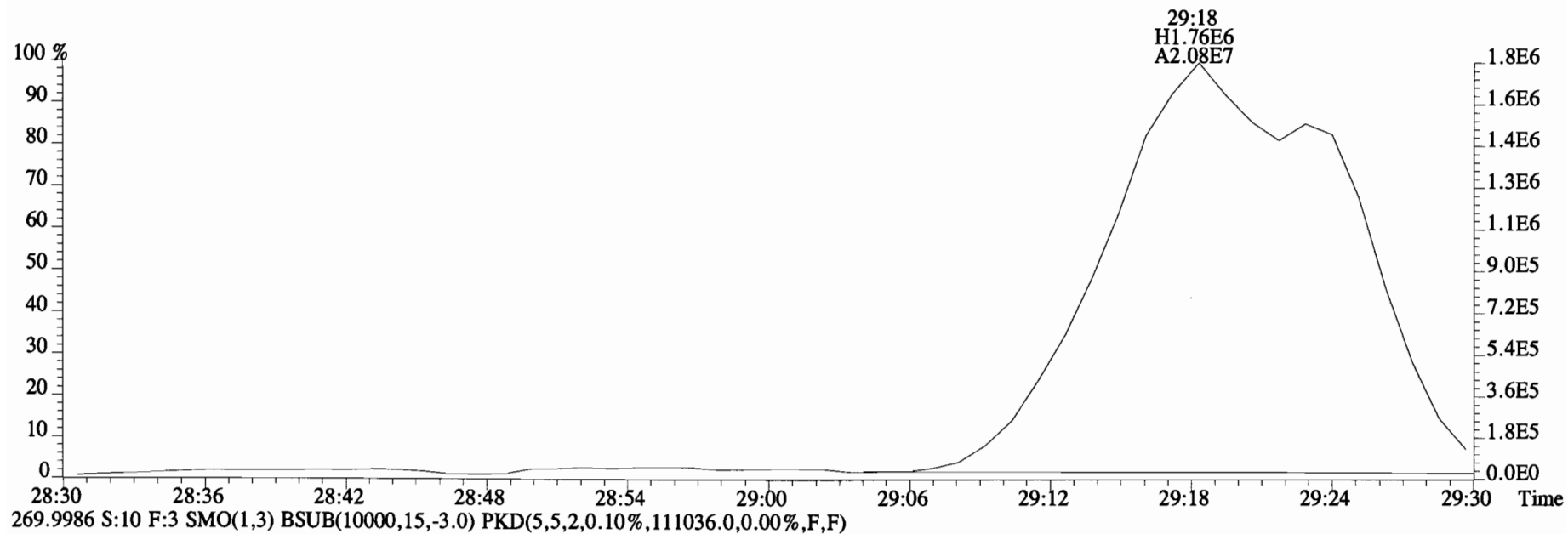
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Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
255.9613 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4124.0,0.00%,F,F)



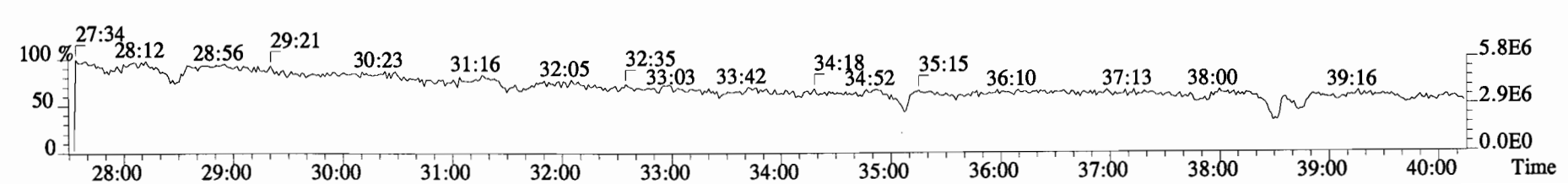
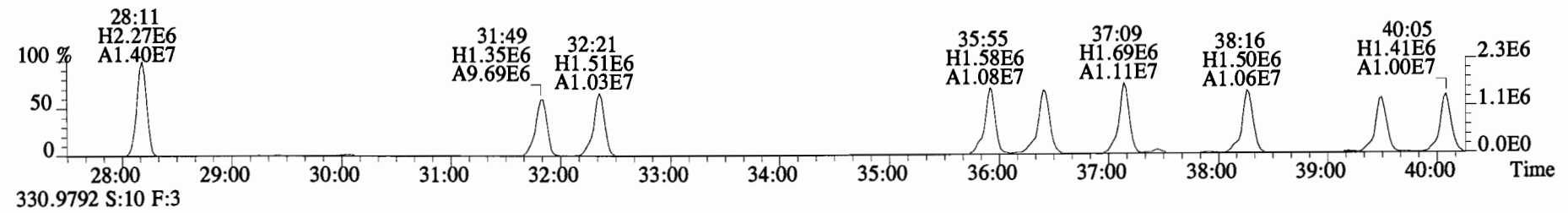
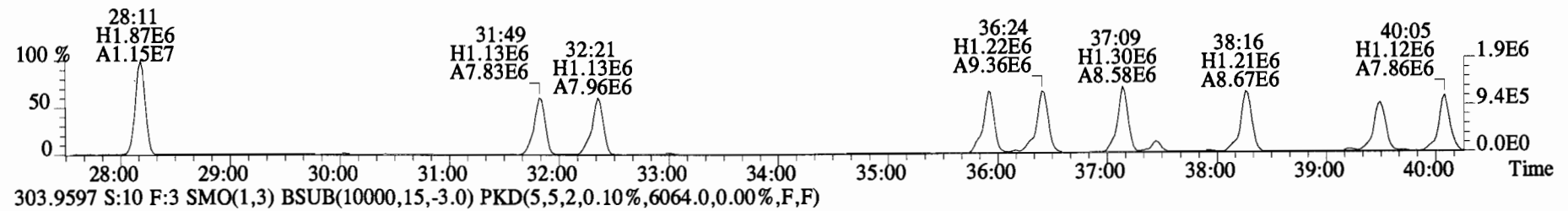
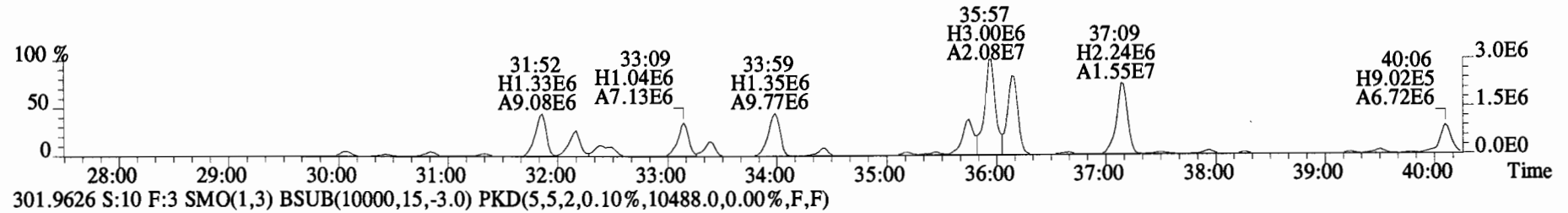
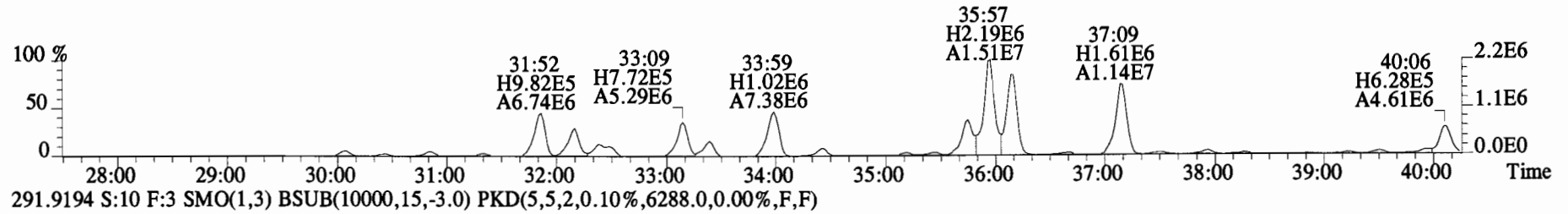
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3160.0,0.00%,F,F)



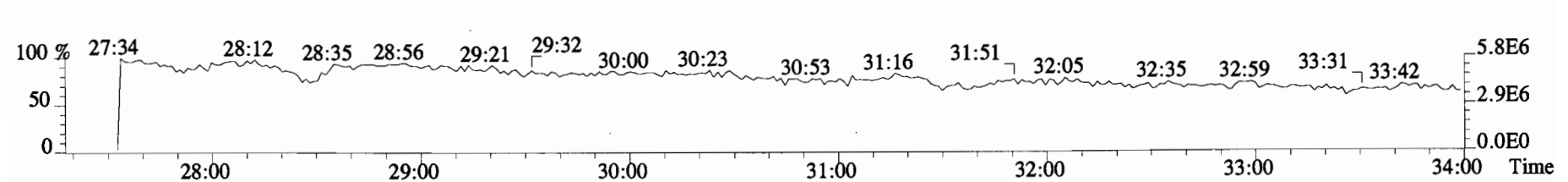
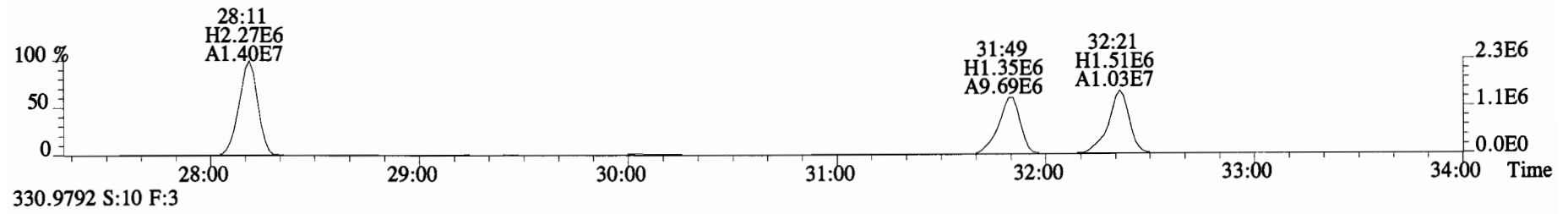
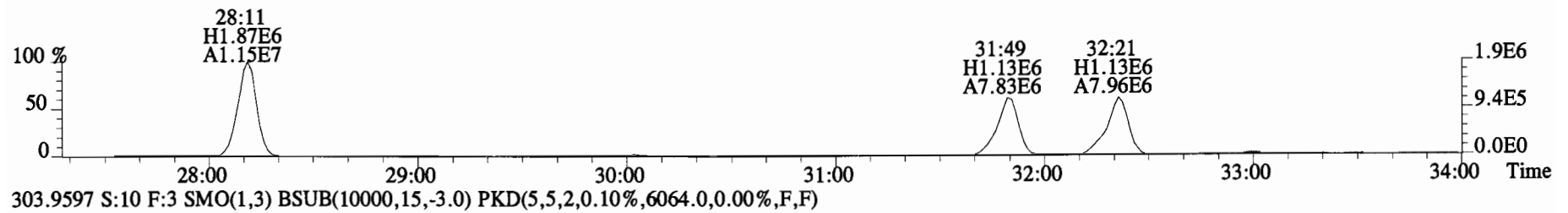
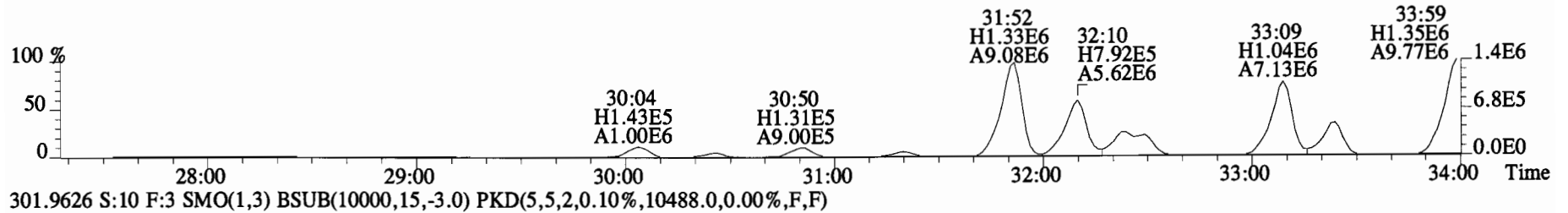
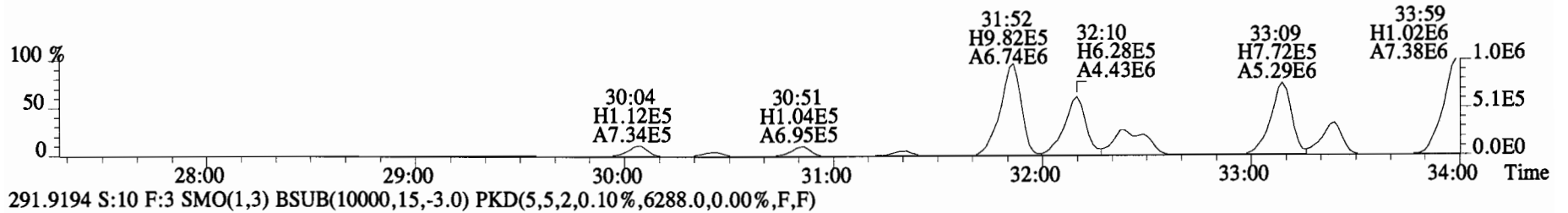
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,40708.0,0.00%,F,F)



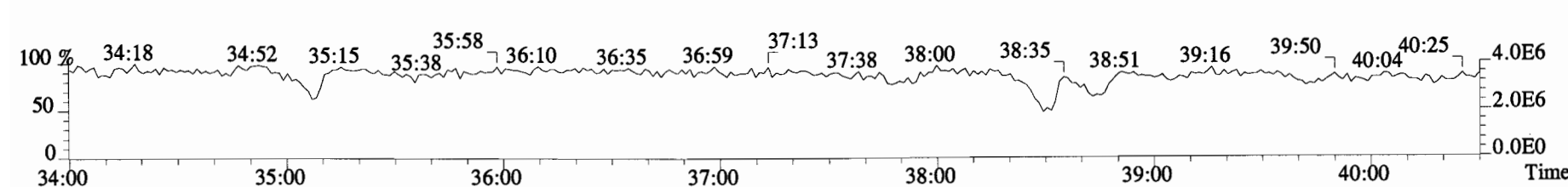
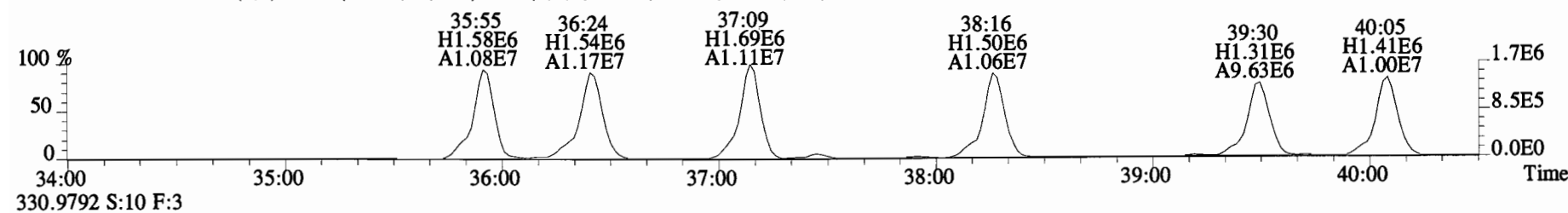
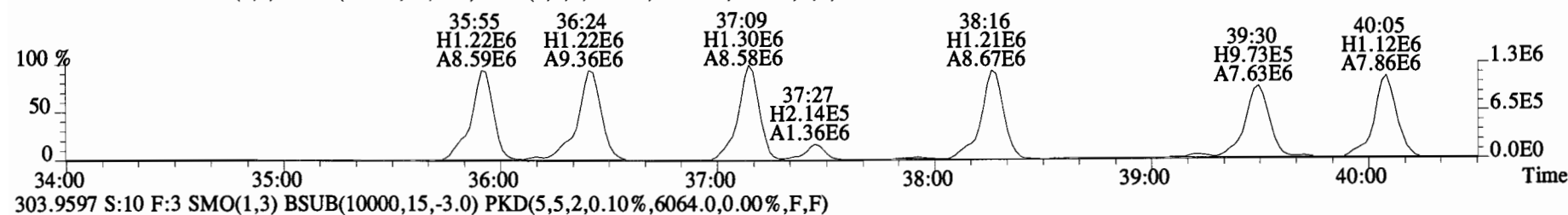
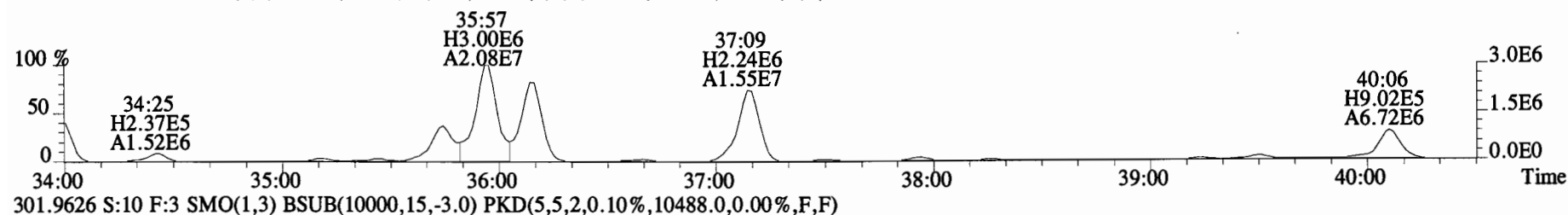
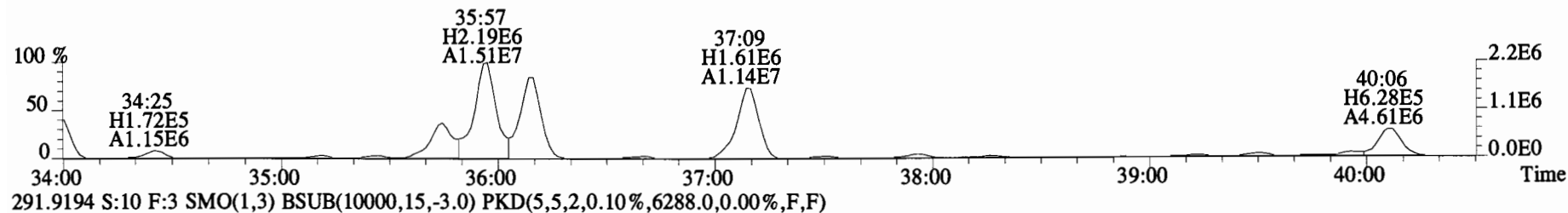
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289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3276.0,0.00%,F,F)



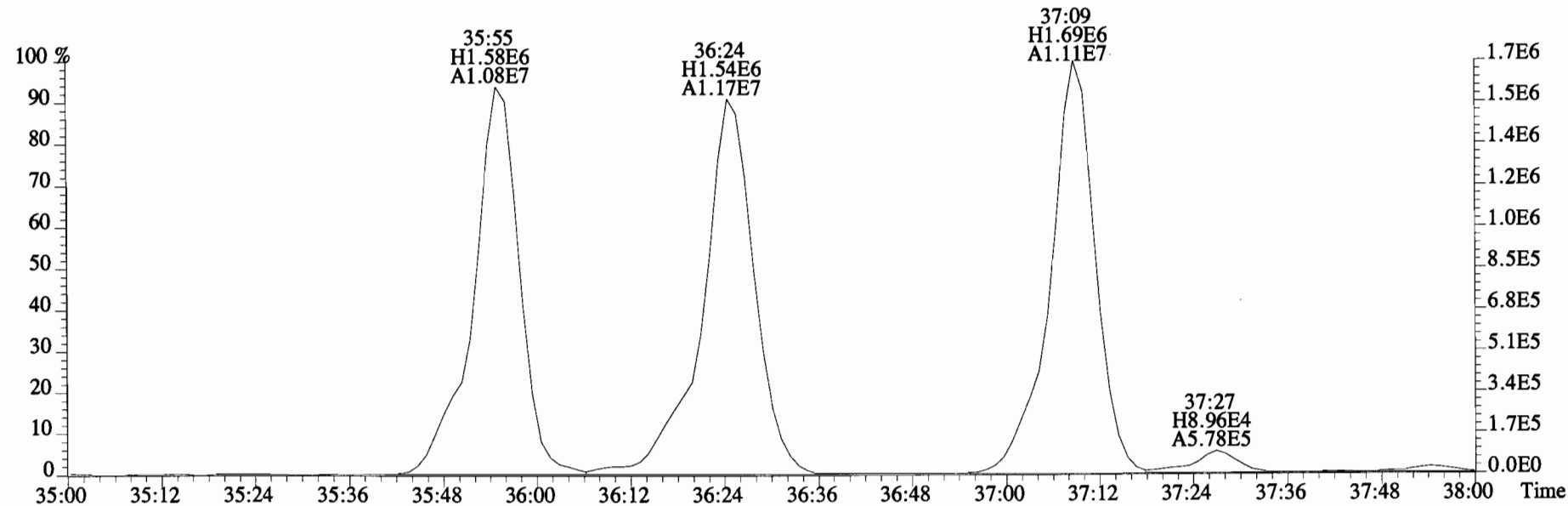
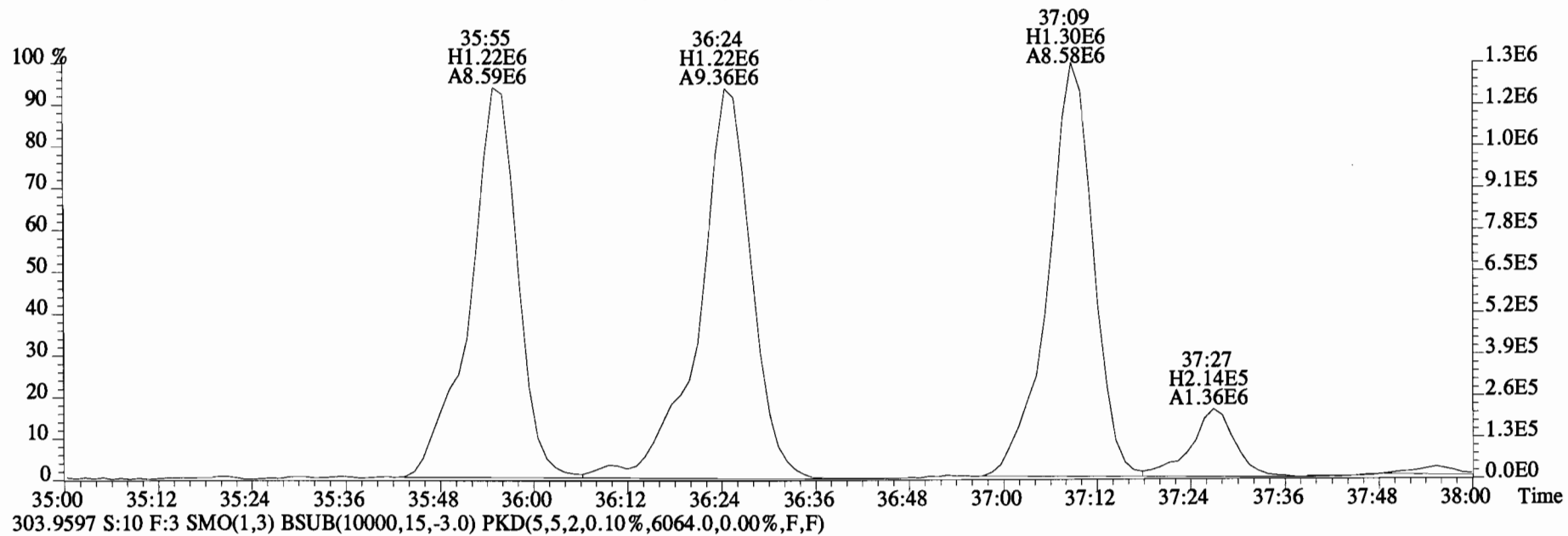
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
 289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3276.0,0.00%,F,F)



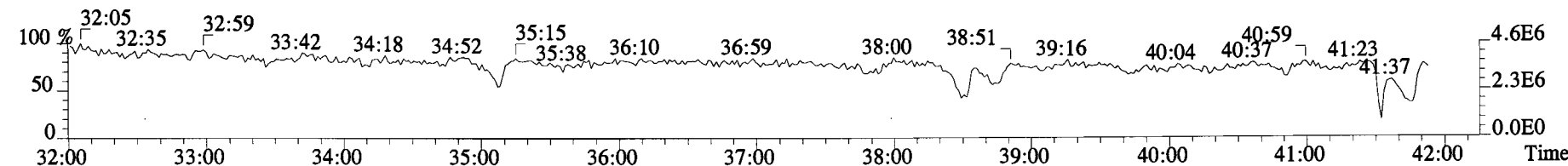
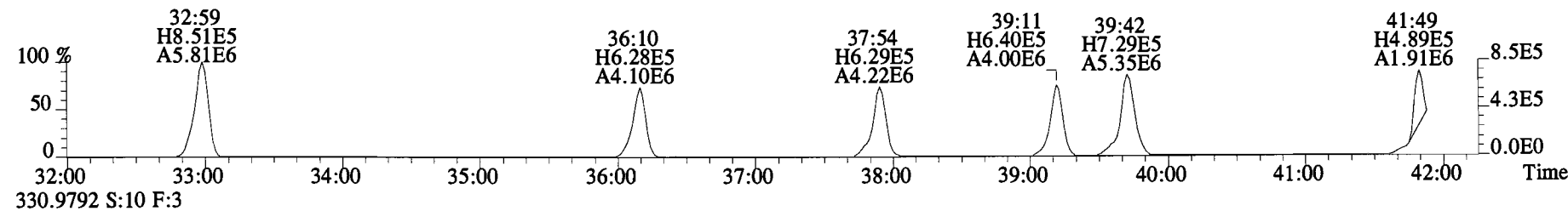
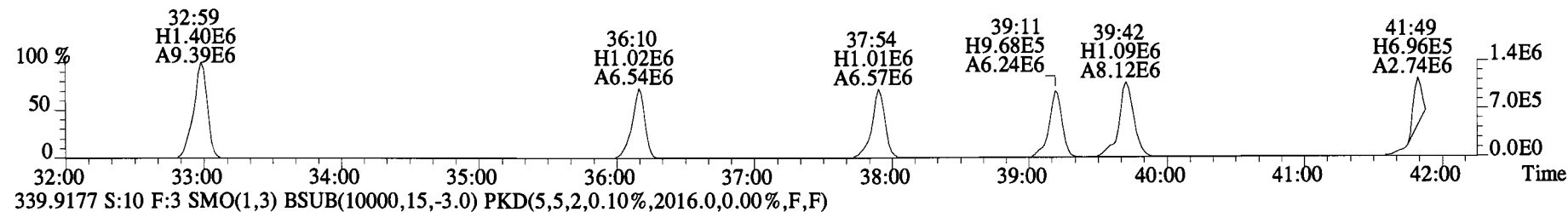
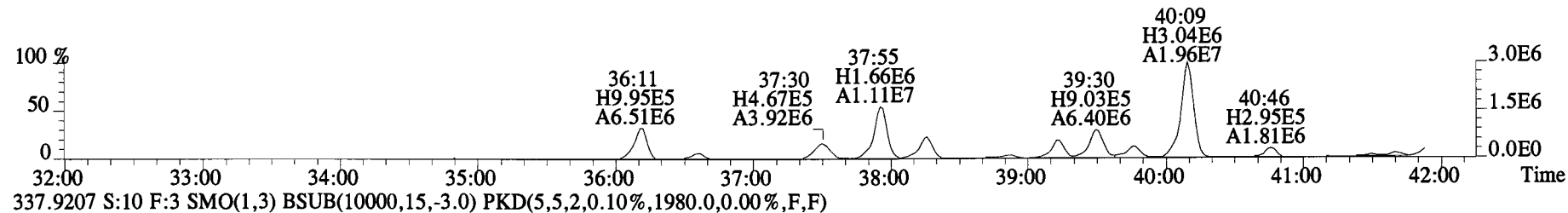
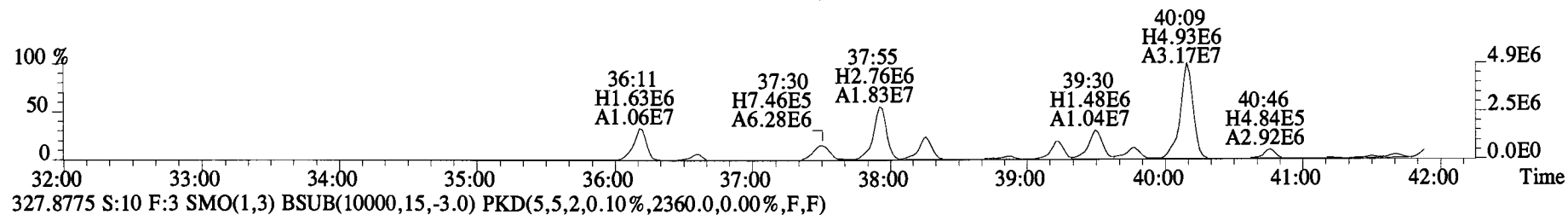
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3276.0,0.00%,F,F)



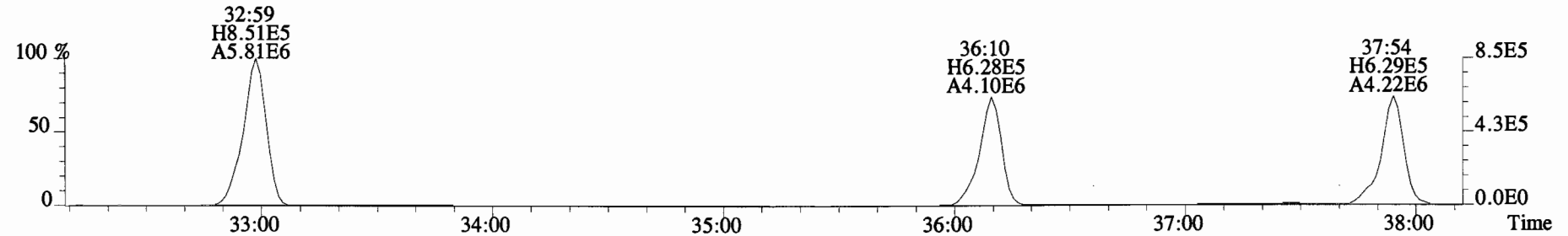
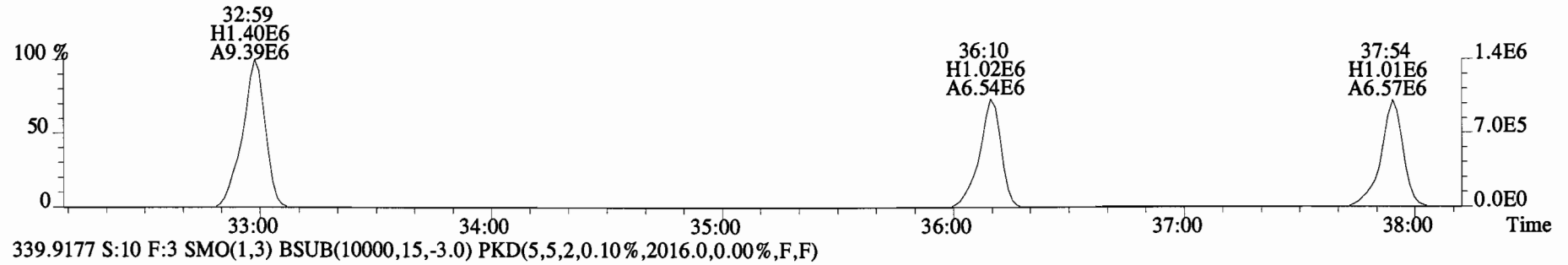
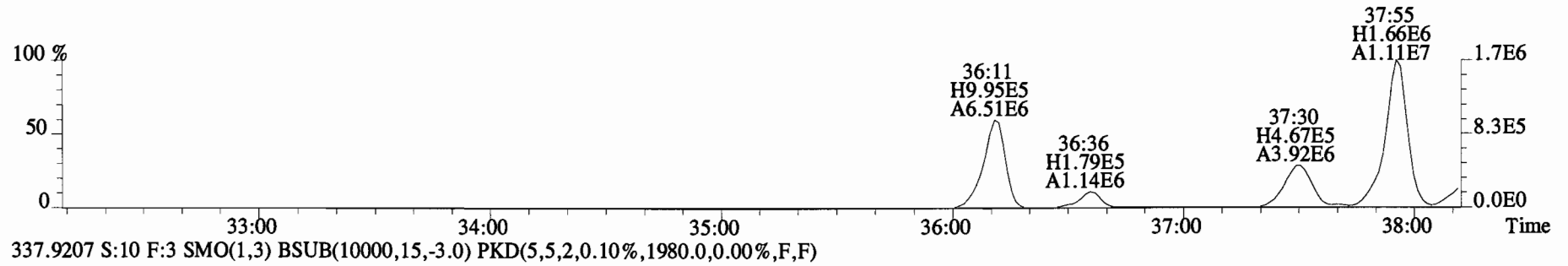
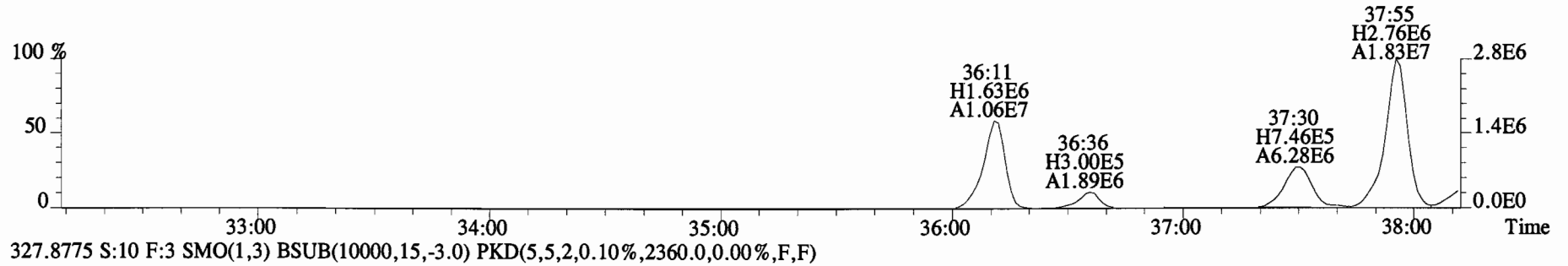
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,10488.0,0.00%,F,F)



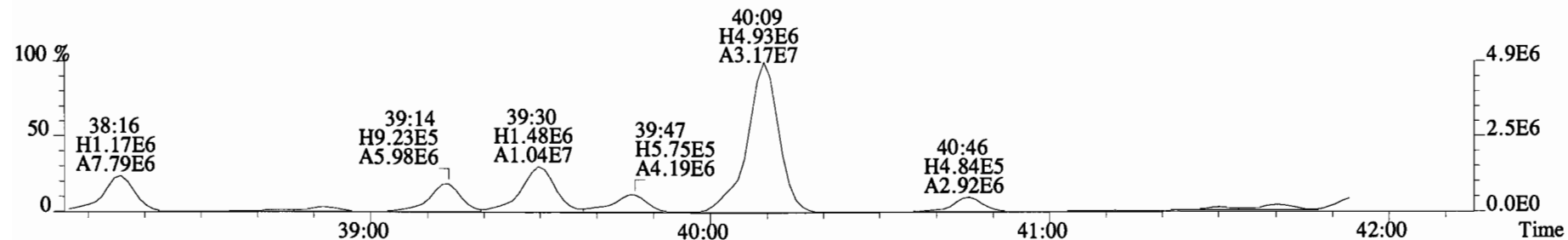
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3088.0,0.00%,F,F)



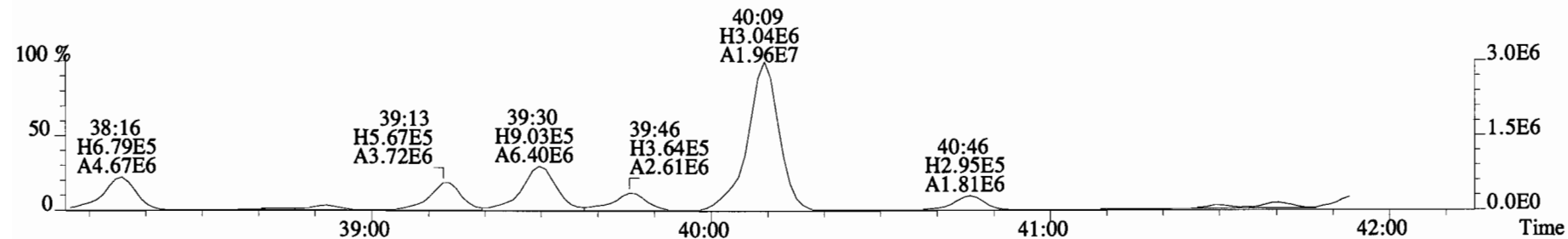
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3088.0,0.00%,F,F)



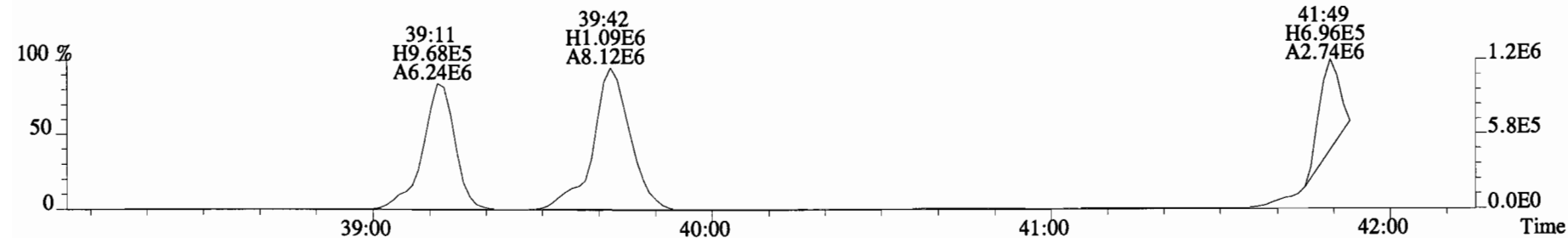
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3088.0,0.00%,F,F)



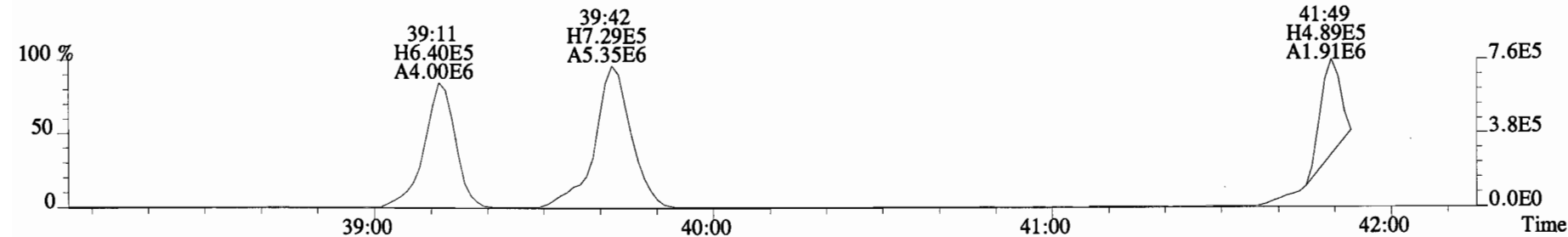
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2360.0,0.00%,F,F)



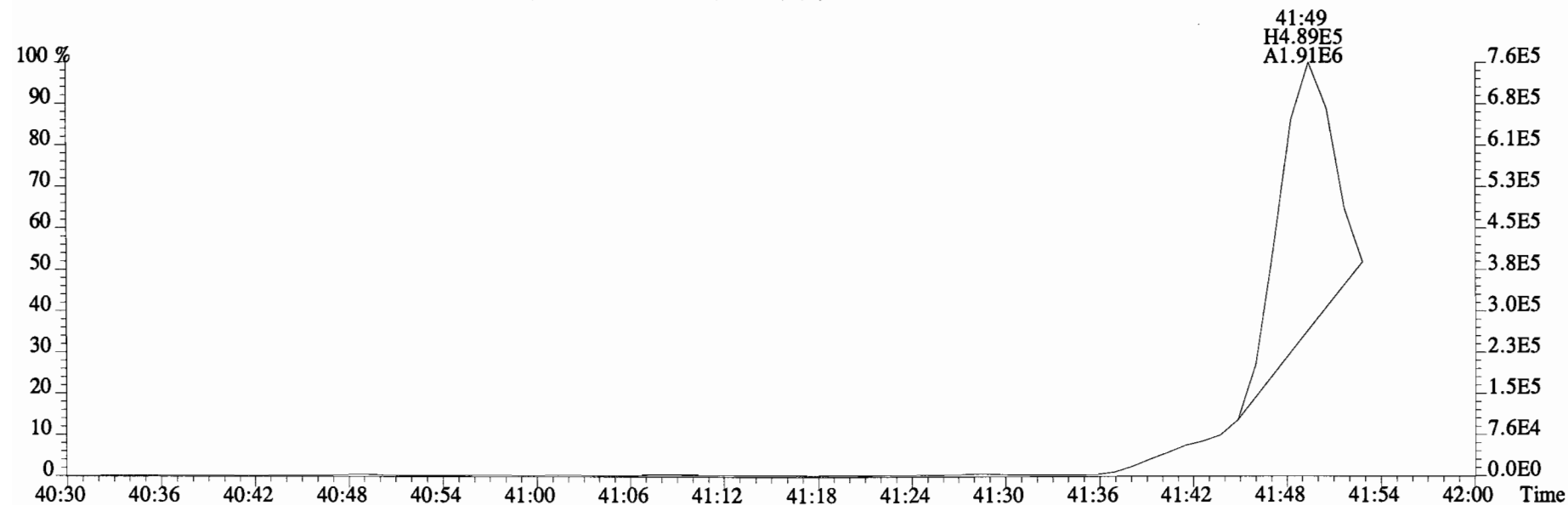
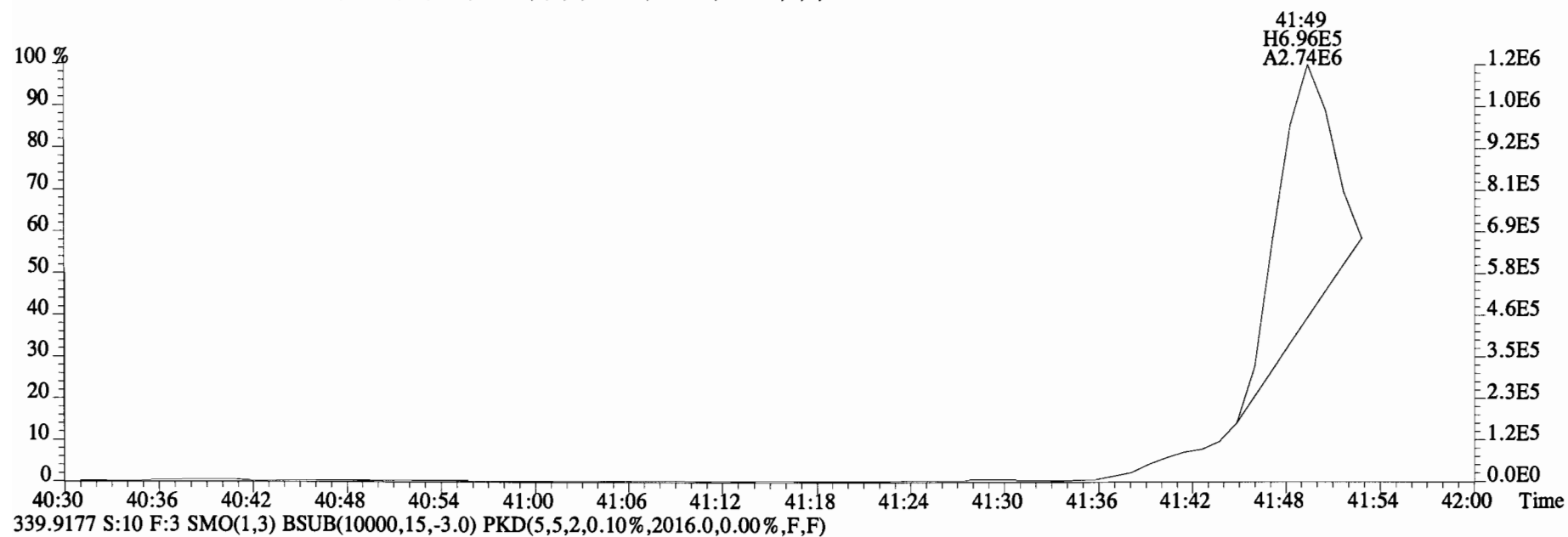
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1980.0,0.00%,F,F)



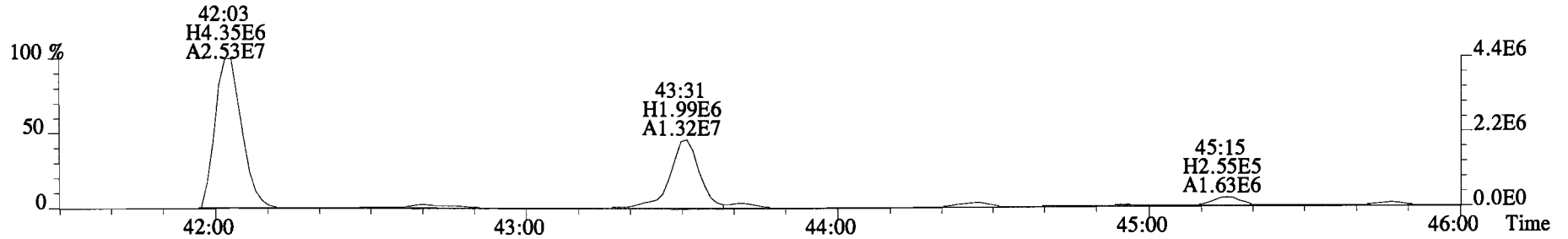
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2016.0,0.00%,F,F)



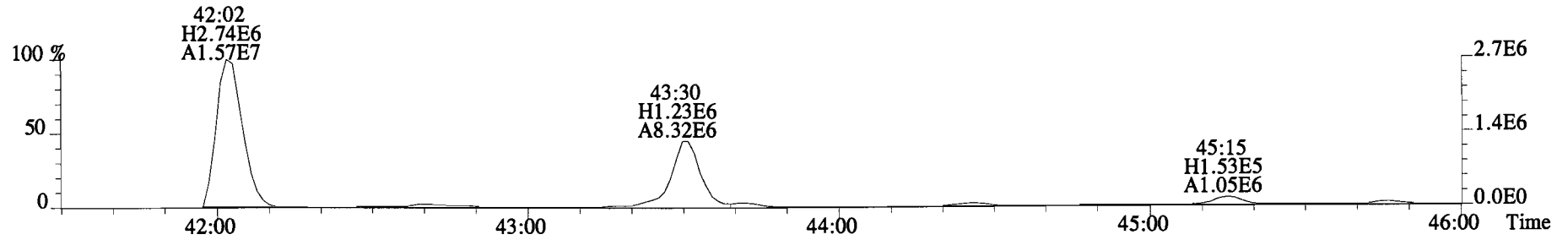
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1980.0,0.00%,F,F)



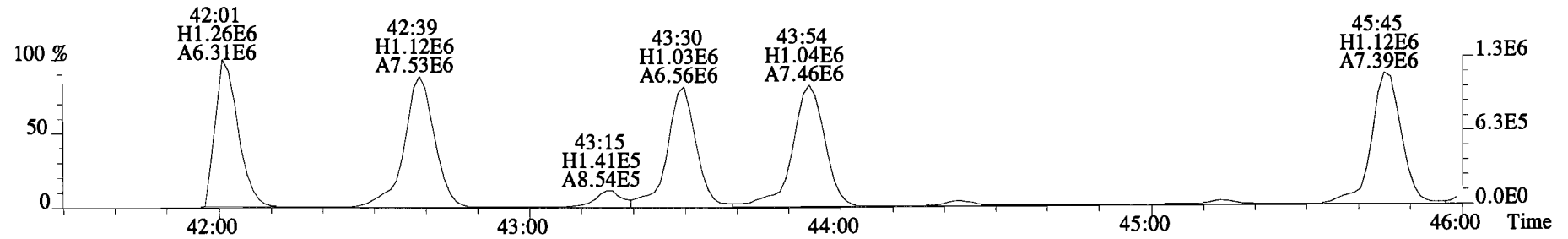
File:150318E1 #1-555 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,10284.0,0.00%,F,F)



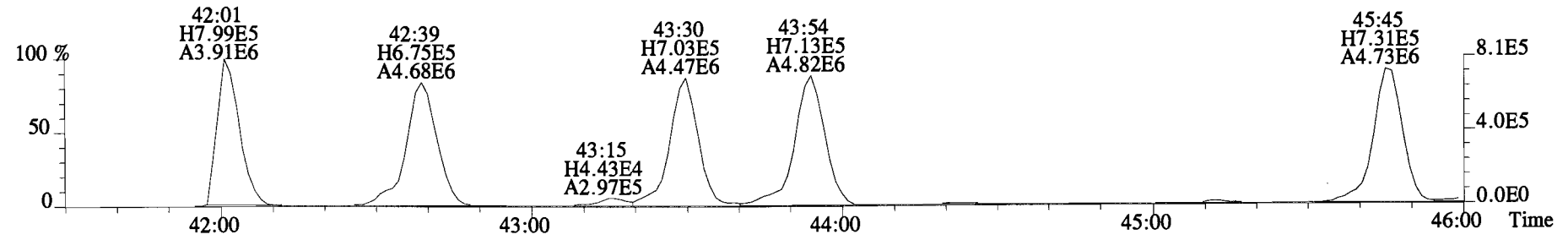
327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6264.0,0.00%,F,F)



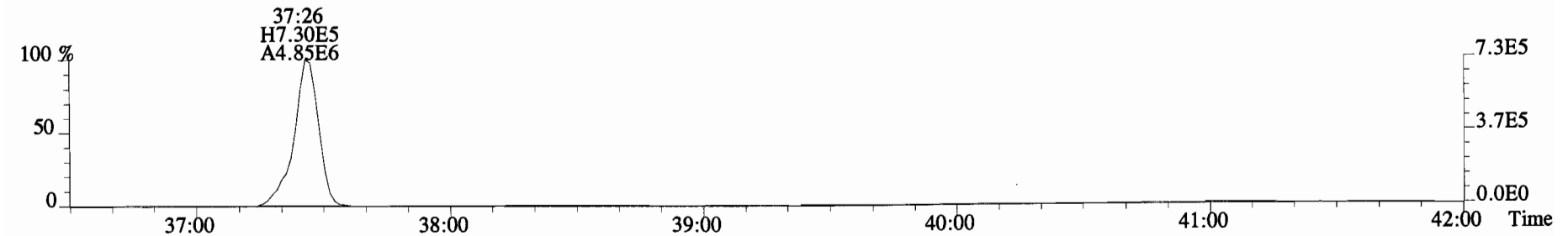
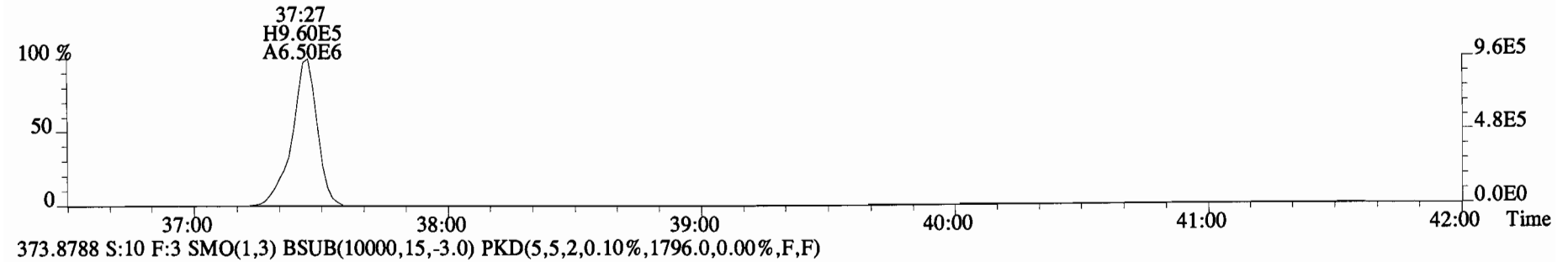
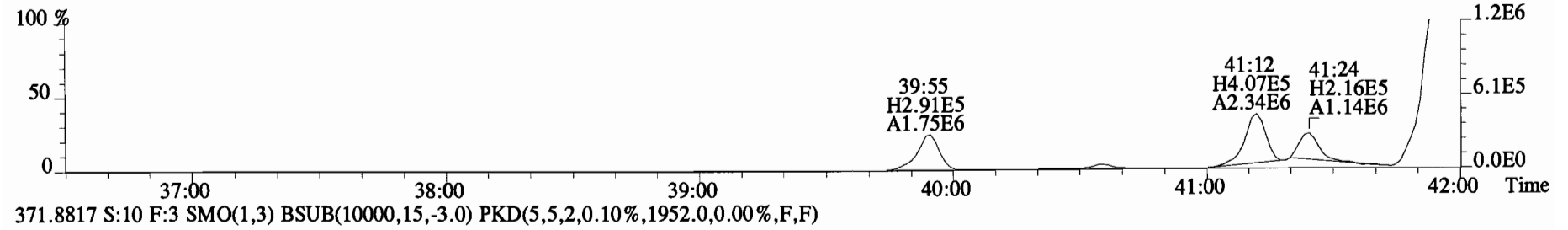
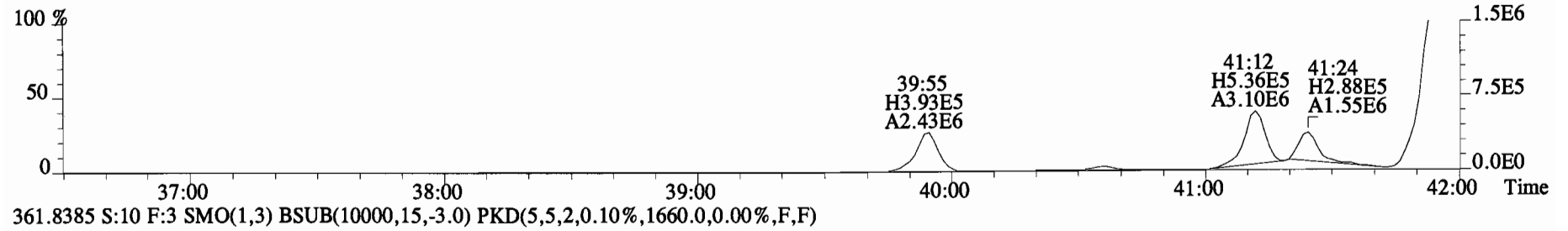
337.9207 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5600.0,0.00%,F,F)



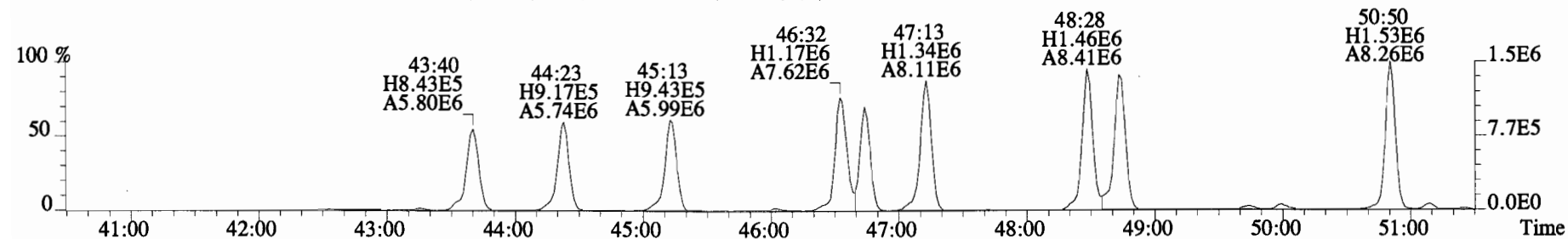
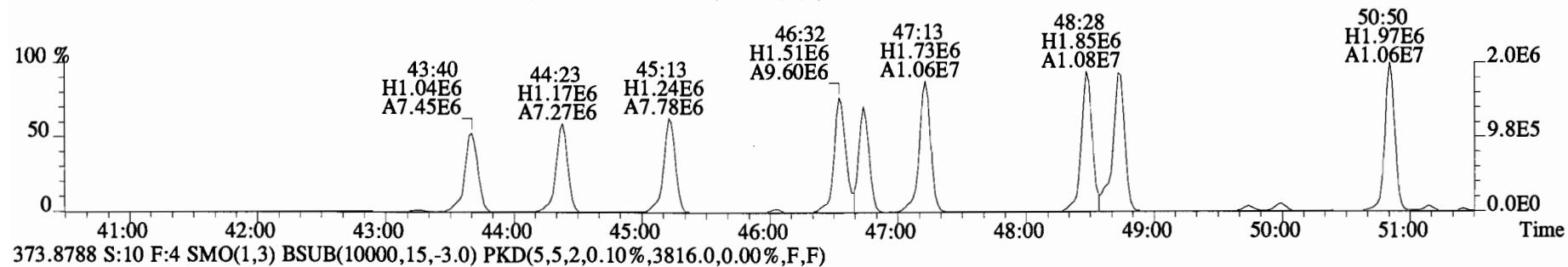
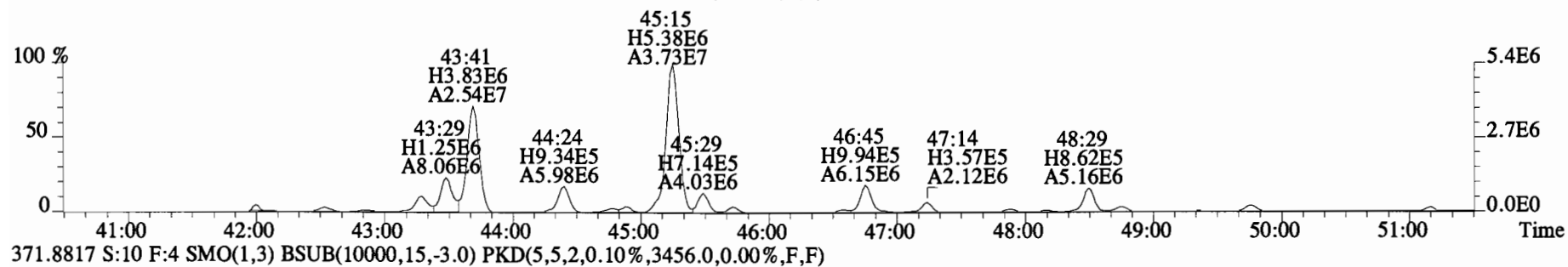
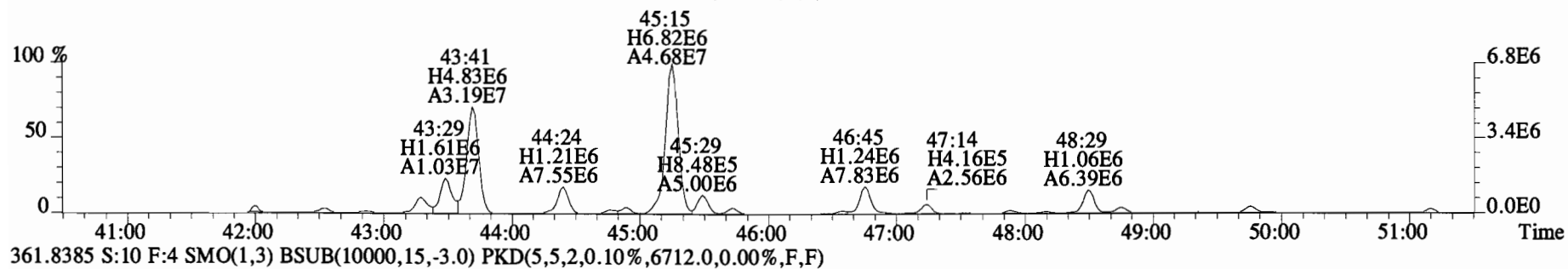
339.9177 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3476.0,0.00%,F,F)



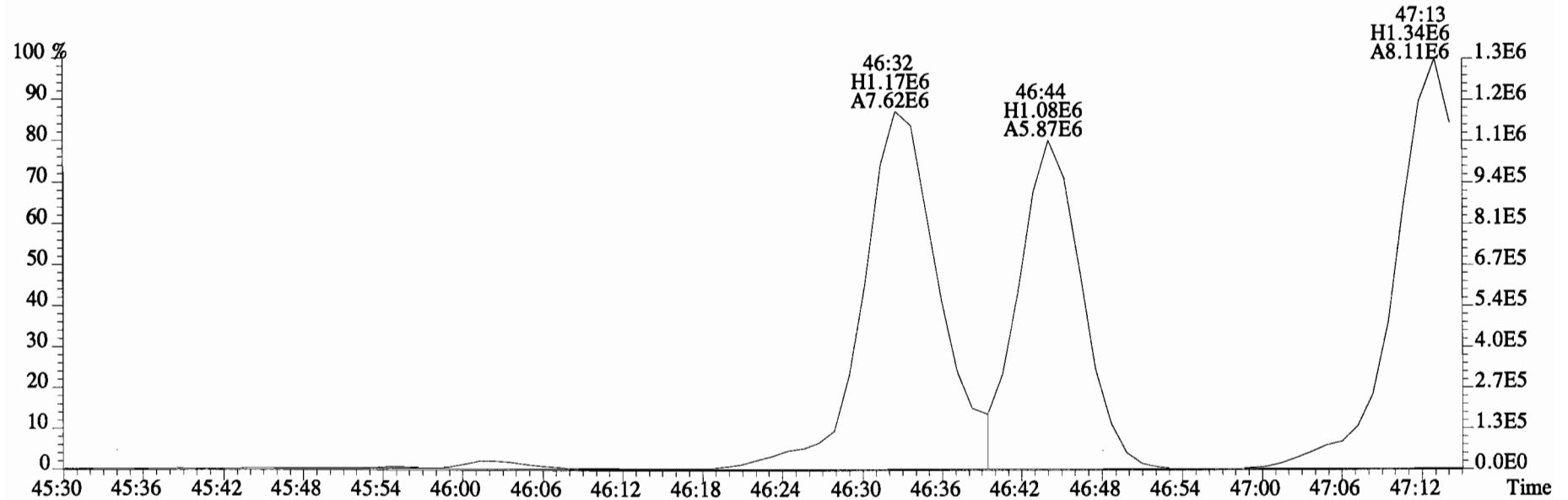
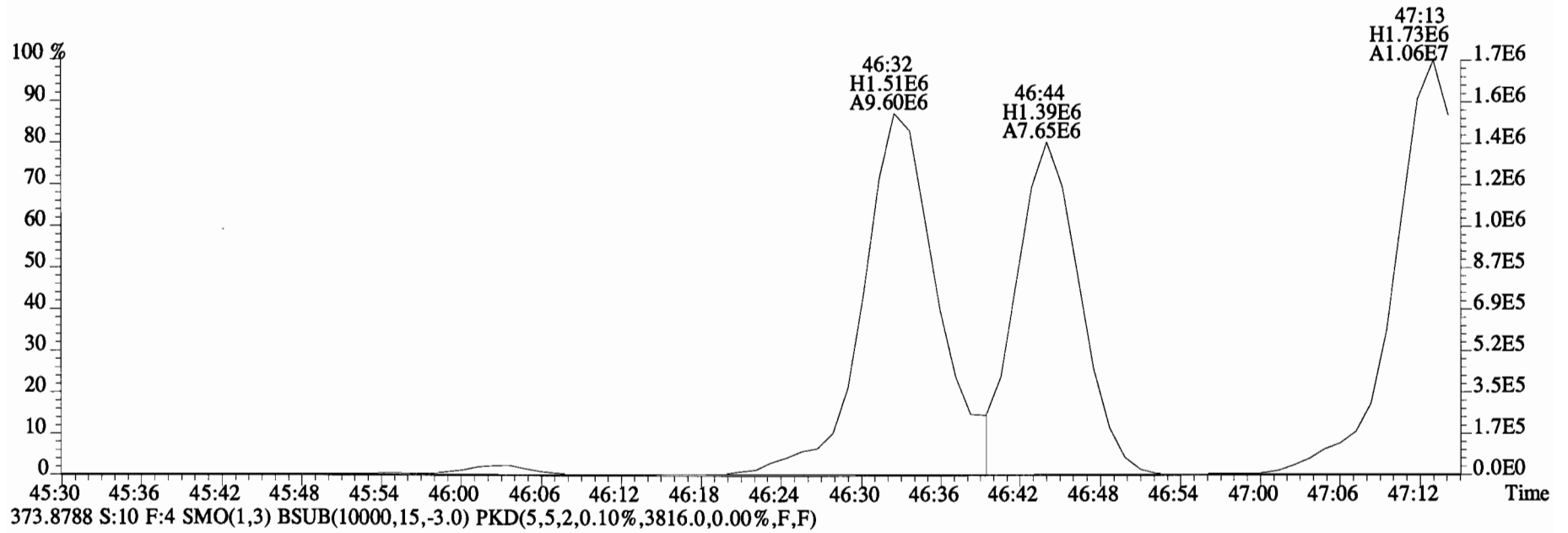
File:150318E1 #1-758 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



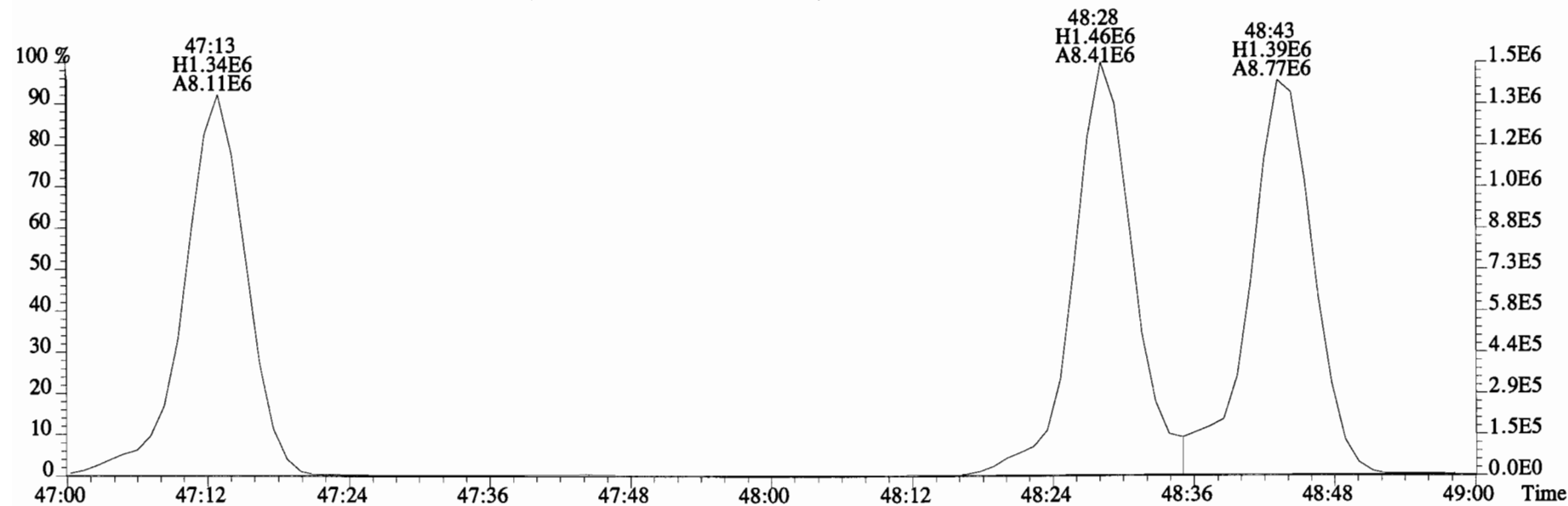
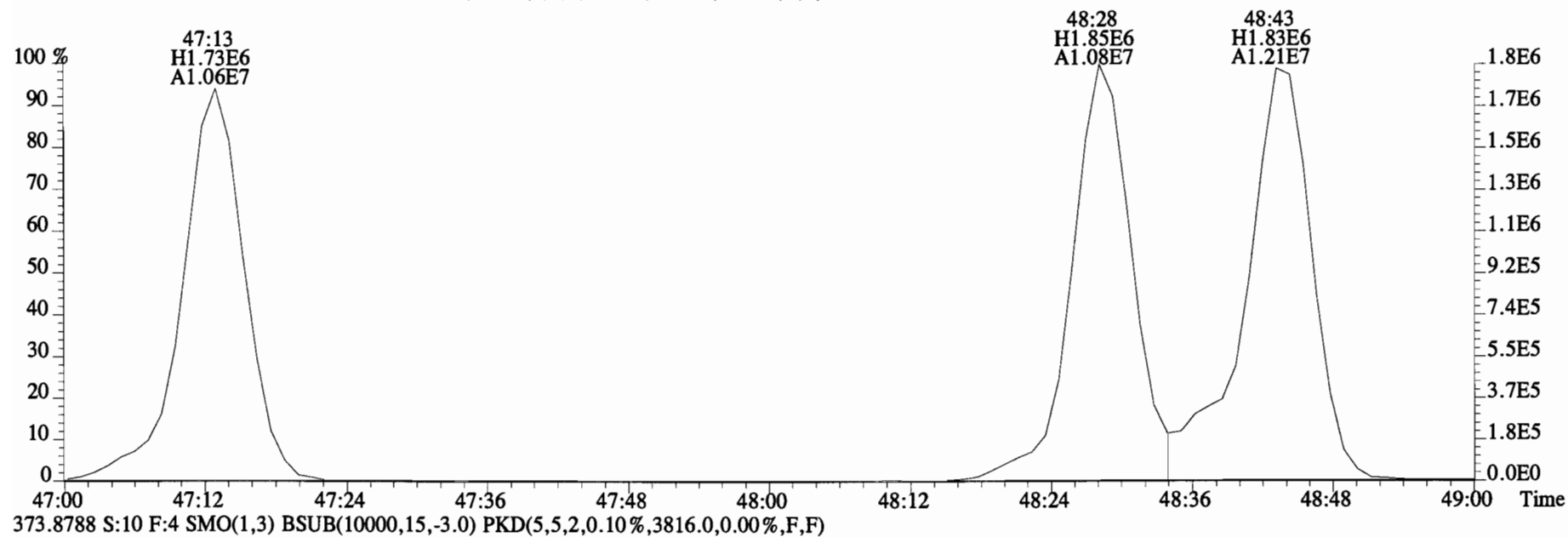
File:150318E1 #1-555 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
 359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7352.0,0.00%,F,F)



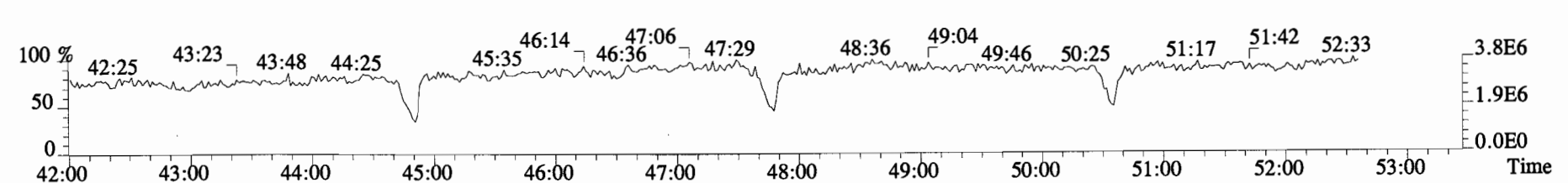
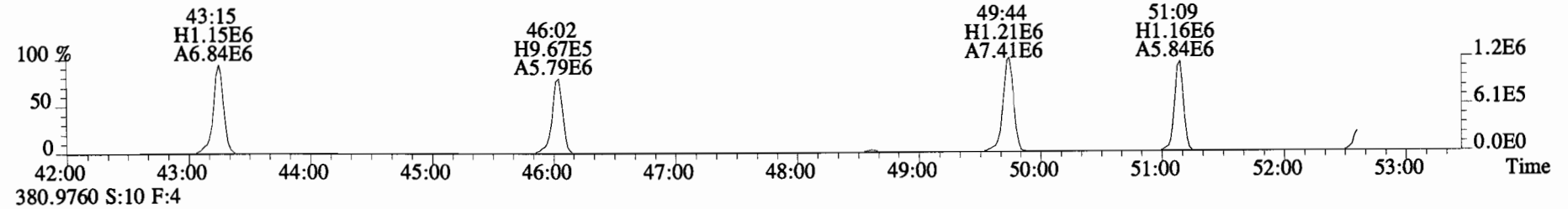
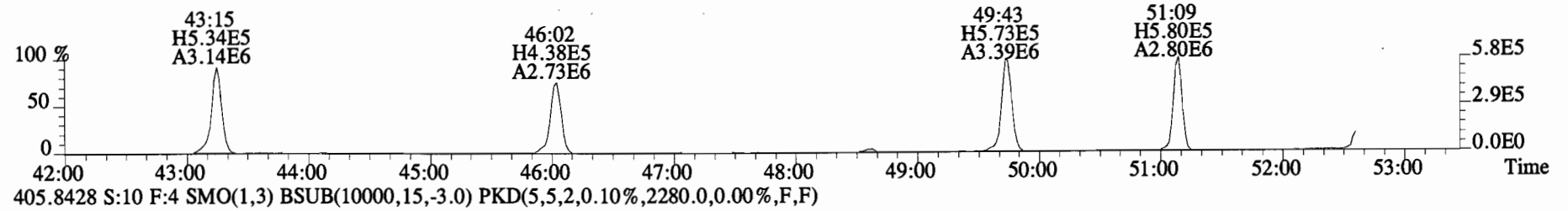
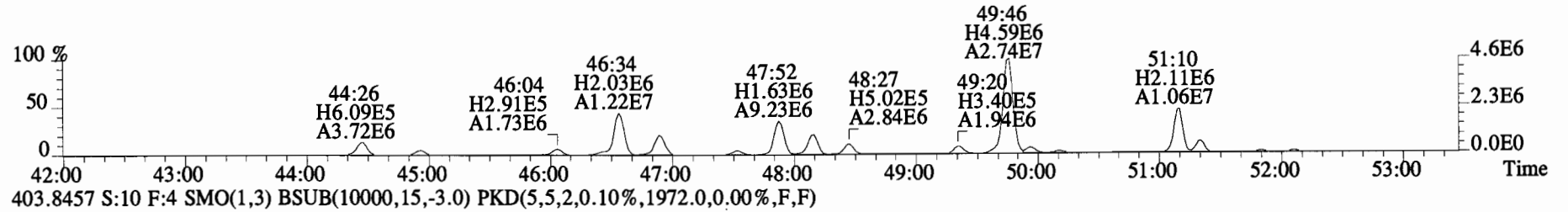
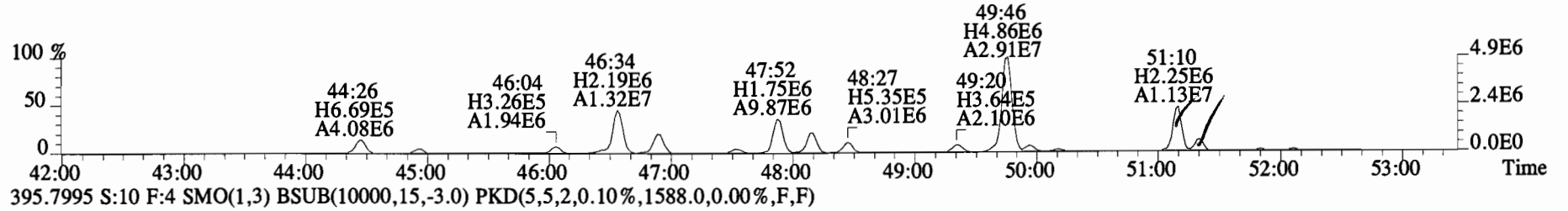
File:150318E1 #1-555 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3456.0,0.00%,F,F)



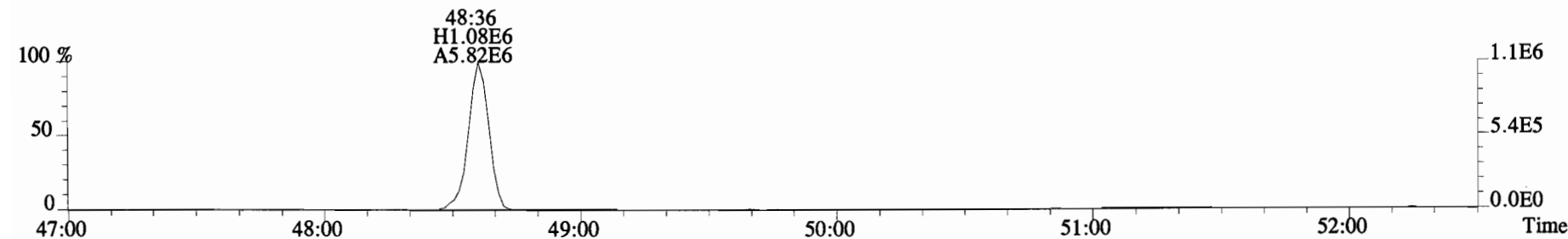
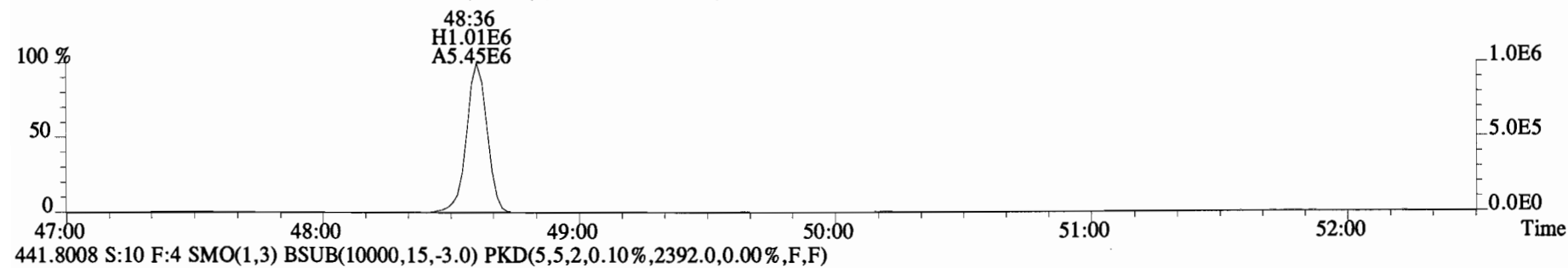
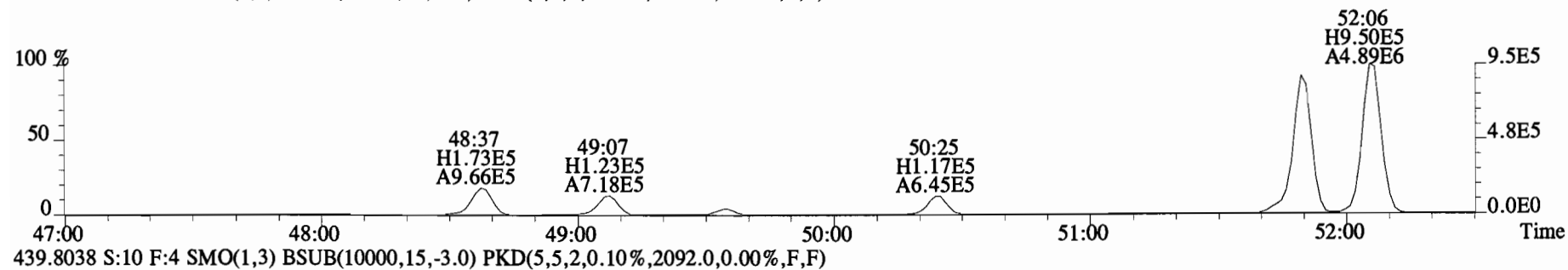
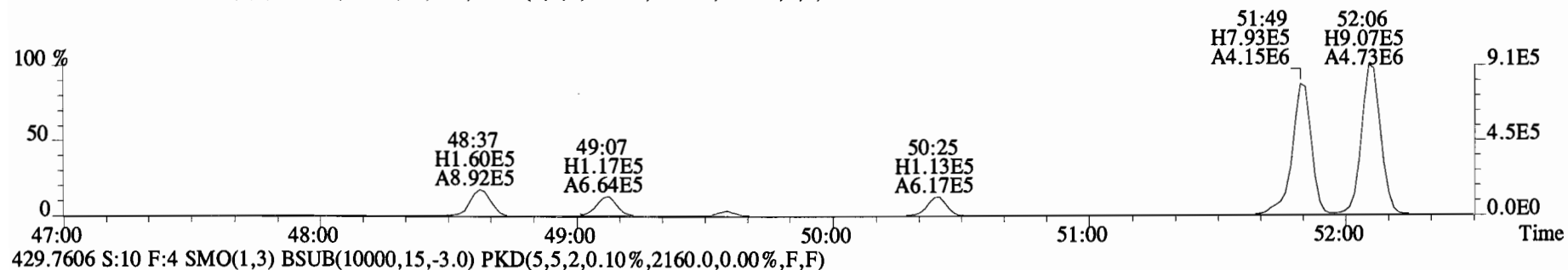
File:150318E1 #1-555 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3456.0,0.00%,F,F)



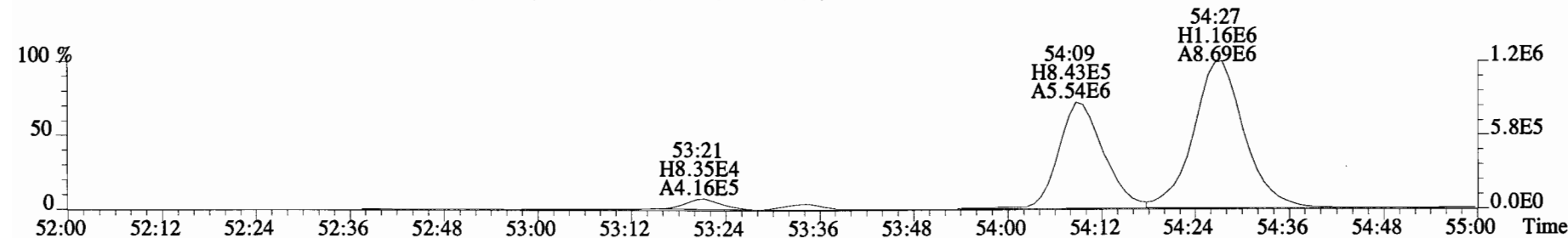
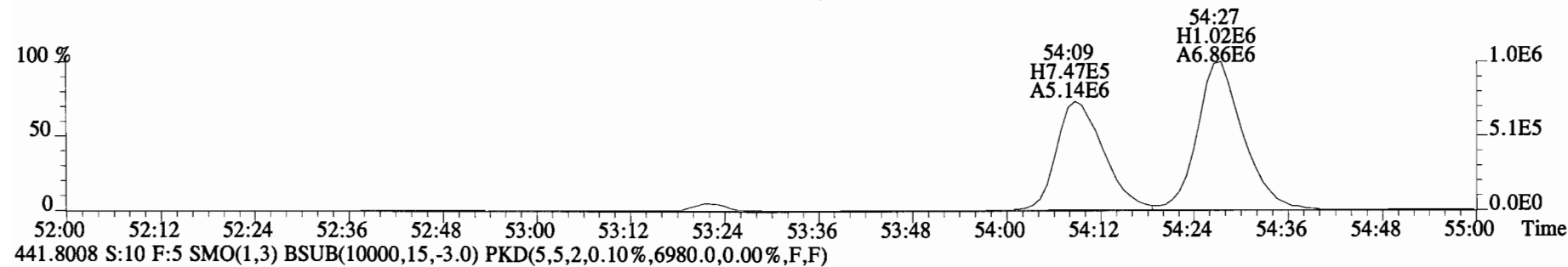
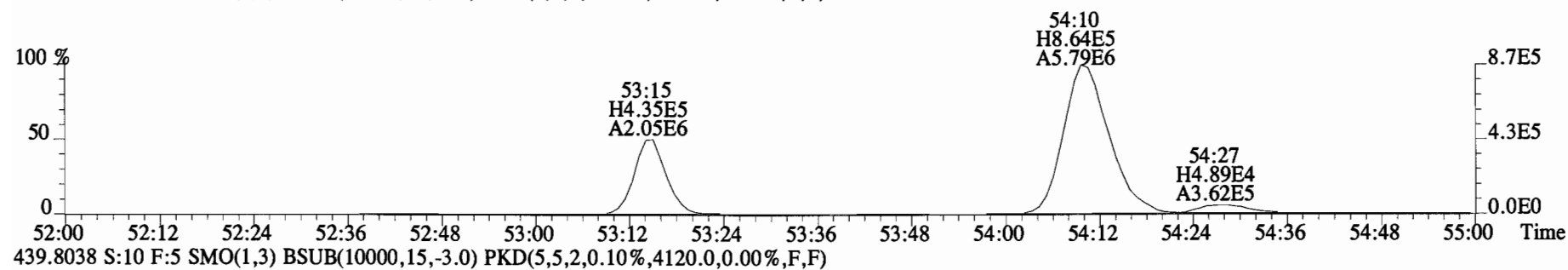
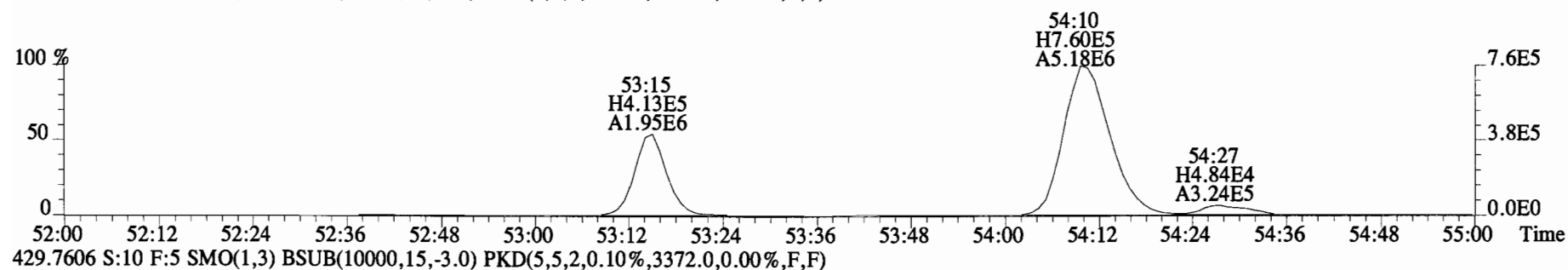
File:150318E1 #1-555 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2504.0,0.00%,F,F)



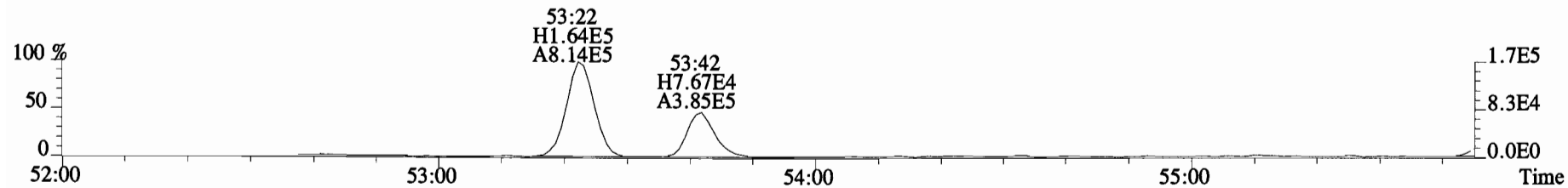
File:150318E1 #1-555 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1916.0,0.00%,F,F)



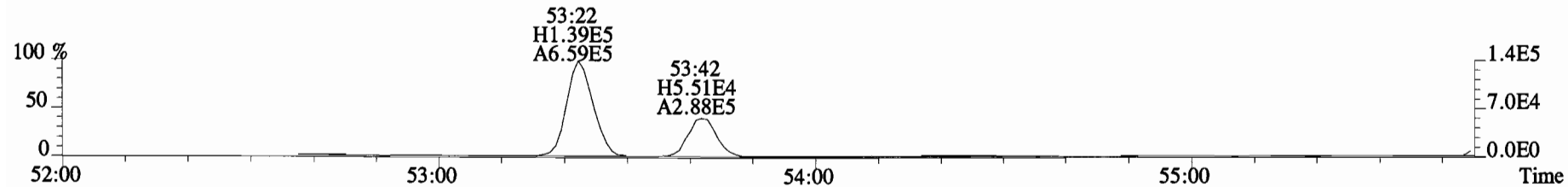
File:150318E1 #1-429 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3900.0,0.00%,F,F)



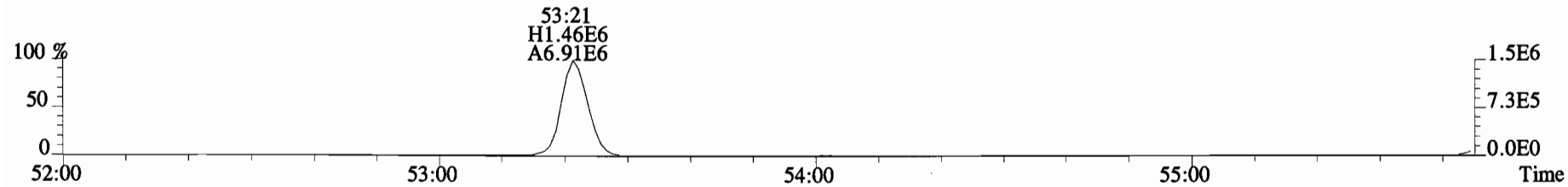
File:150318E1 #1-429 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2772.0,0.00%,F,F)



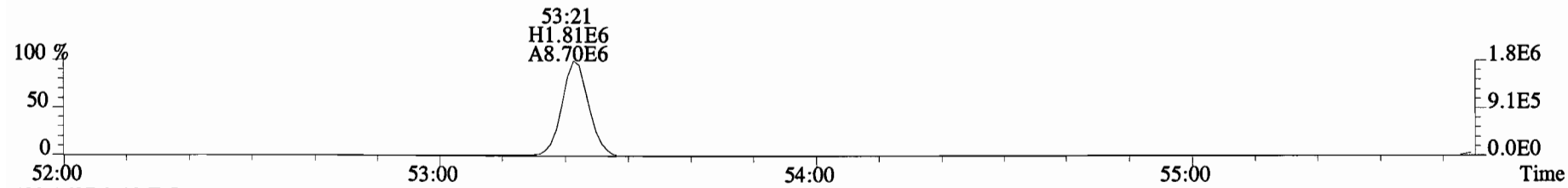
465.7186 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2424.0,0.00%,F,F)



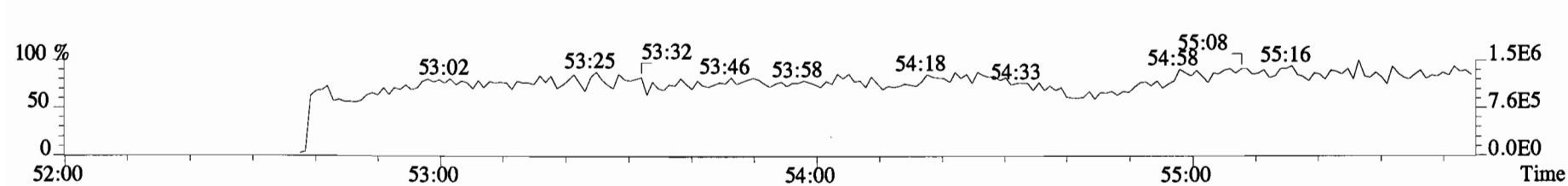
473.7648 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2916.0,0.00%,F,F)



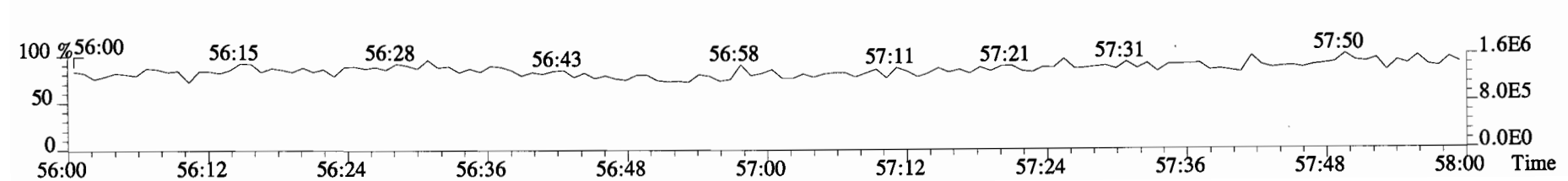
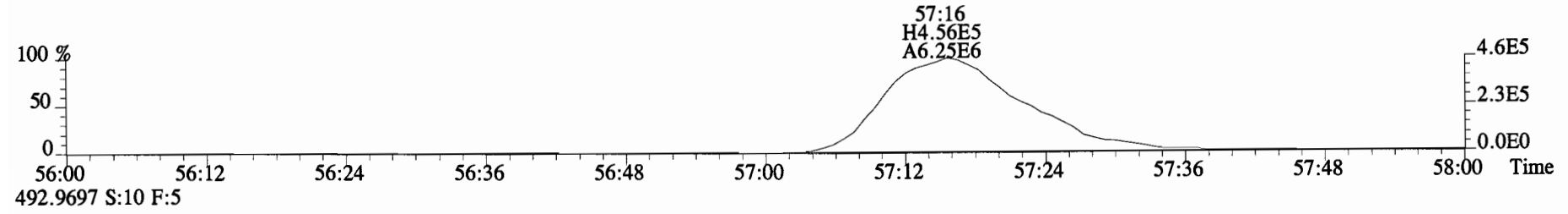
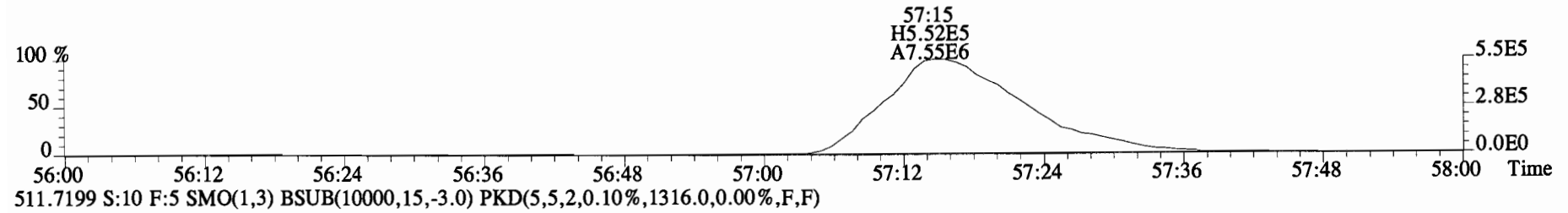
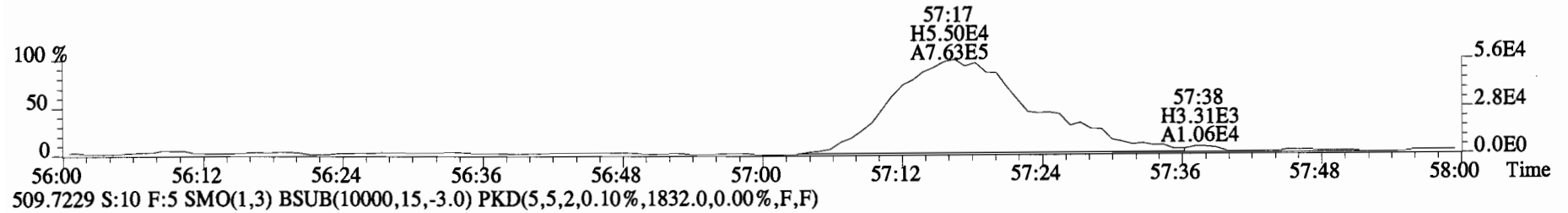
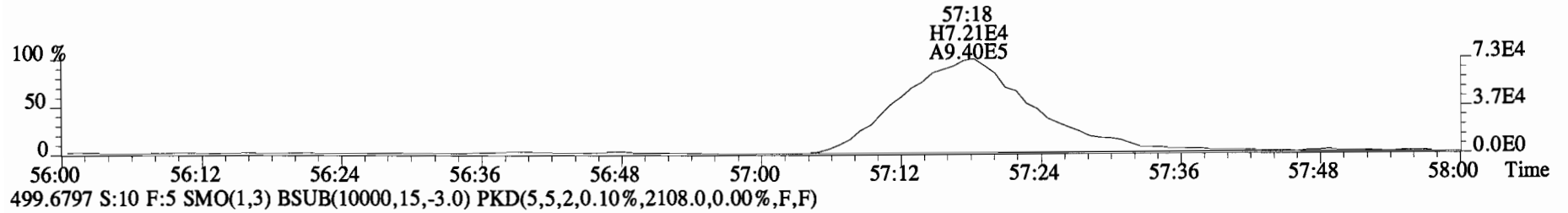
475.7619 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2460.0,0.00%,F,F)



492.9697 S:10 F:5



File:150318E1 #1-429 Acq:18-MAR-2015 19:39:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1400948-02RE1 SC-CB-35-20141211-S Exp:PCB_ZB1
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2040.0,0.00%,F,F)



Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1@20X

Filename: 150319E1
GC Column ID: ZB-1

S:6 Acq:19-MAR-15 18:09:45
ICal: PCBVG8-6-23-14 wt/vol: 1.902

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	7.76e+04	3.16	y 16:11	1.19	132		*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	*	*	n NotF η	1.18	*		2920	2.5	161	*	0.984-0.994	
Mono	PCB-3	8.40e+04	3.03	y 18:47	1.43	107		*	2.5	*	1.000	0.996-1.006	
Di	PCB-4/10	*	*	n NotF η	1.57	*		17500	2.5	711	*	0.997-1.007	
Di	PCB-7/9	*	*	n NotF η	1.21	*		17500	2.5	581	*	0.866-0.874	
Di	PCB-6	1.78e+05	1.25	n 22:35	1.30	238	R	*	2.5	*	0.894	0.890-0.899	
Di	PCB-5/8	7.69e+05	1.57	y 22:58	1.15	1170		*	2.5	*	0.909	0.907-0.917	
Di	PCB-14	*	*	n NotF η	1.11	*		17500	2.5	620	*	0.949-0.959	
Di	PCB-11	2.94e+06	1.59	y 25:17	1.09	4330		*	2.5	*	1.001	0.995-1.005	
Di	PCB-12/13	*	*	n NotF η	1.19	*		17500	2.5	576	*	1.011-1.021	
Di	PCB-15	1.42e+06	1.59	y 25:59	1.28	1770		*	2.5	*	1.028	1.023-1.033	
Tri	PCB-19	1.06e+05	1.01	y 24:15	1.04	323		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.71	*		2220	2.5	75.5	*	1.032-1.042	
Tri	PCB-18	1.21e+06	1.09	y 25:53	0.78	3190		*	2.5	*	0.953	0.949-0.959	
Tri	PCB-17	5.20e+05	0.98	y 26:04	0.92	1160		*	2.5	*	0.960	0.956-0.966	
Tri	PCB-24/27	1.84e+05	1.18	y 26:38	1.19	321		*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	1.16e+06	1.12	y 27:09	0.94	2550		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF η	1.14	*		3200	2.5	118	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF η	1.28	*		3200	2.5	105	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF η	1.08	*		3200	2.5	125	*	0.967-0.977	
Tri	PCB-26	7.12e+05	0.97	y 28:30	1.21	1040		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	3.41e+05	1.09	y 28:39	1.26	475		*	2.5	*	0.985	0.979-0.989	
Tri	PCB-31	4.04e+06	1.08	y 29:01	1.28	5530		*	2.5	*	0.997	0.992-1.002	
Tri	PCB-28	4.88e+06	1.08	y 29:08	1.71	5010		*	2.5	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	3.32e+06	1.07	y 29:45	1.08	5400		*	2.5	*	1.022	1.017-1.027	
Tri	PCB-22	2.37e+06	1.08	y 30:10	1.21	3440		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.14	*		3200	2.5	133	*	0.928-0.938	
Tri	PCB-39	*	*	n NotF η	1.12	*		3200	2.5	136	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF η	1.20	*		3200	2.5	126	*	0.966-0.976	
Tri	PCB-35	3.78e+05	1.10	y 32:33	1.23	565		*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	5.60e+06	1.07	y 33:00	1.23	8390		*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-54	*	*	n NotF η	1.10	*		3610	2.5	160	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.88	*		3610	2.5	201	*	1.037-1.047	
Tetra	PCB-53	4.74e+05	0.82	y 29:47	1.06	1270		*	2.5	*	0.946	0.942-0.952	
Tetra	PCB-51	1.52e+05	0.85	y 30:09	0.99	437		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	4.25e+05	0.84	y 30:34	0.86	1400		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	1.74e+05	0.70	y 31:04	0.85	585		*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: *DMS*

Date: *3/27/15*

Reviewed by: *[Signature]* Date: *3/27/15*

Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1@20X

Filename: 150319E1 S:6 Acq:19-MAR-15 18:09:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.902

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.14e+07	0.79	y 31:32	1.28	25400		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.35	*		3610	2.5	162	*	1.000-1.010	
Tetra	PCB-43/49	4.06e+06	0.78	y 31:49	0.99	11600		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	1.10e+06	0.78	y 32:02	1.06	2850		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	9.58e+05	0.82	y 32:10	1.23	2150		*	2.5	*	1.005	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.22	*		3610	2.5	180	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF η	1.22	*		3610	2.5	181	*	1.011-1.021	
Tetra	PCB-44	6.61e+06	0.80	y 32:49	0.86	21100		*	2.5	*	1.026	1.021-1.031	
Tetra	PCB-42/59	1.83e+06	0.71	y 33:03	1.14	4430		*	2.5	*	1.033	1.028-1.038	
Tetra	PCB-41/64/71/72	6.98e+06	0.79	y 33:38	1.21	15900		*	2.5	*	1.051	1.046-1.056	
Tetra	PCB-68	5.61e+04	0.96	n 33:54	1.35	115	R	*	2.5	*	1.059	1.054-1.064	
Tetra	PCB-40	9.24e+05	0.77	y 34:07	0.70	3620		*	2.5	*	1.066	1.061-1.071	
Tetra	PCB-57	5.84e+04	1.01	n 34:28	0.98	125	R	*	2.5	*	0.970	0.965-0.975	
Tetra	PCB-67	3.63e+05	0.82	y 34:46	1.11	687		*	2.5	*	0.978	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	0.93	*		3610	2.5	173	*	0.977-0.987	
Tetra	PCB-63	3.99e+05	0.70	y 35:02	0.95	879		*	2.5	*	0.986	0.982-0.992	
Tetra	PCB-74	5.88e+06	0.79	y 35:20	1.24	9920		*	2.5	*	0.994	0.990-1.000	
Tetra	PCB-61/70	1.89e+07	0.79	y 35:33	0.95	41600		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-76/66	1.06e+07	0.81	y 35:45	1.04	21300		*	2.5	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.19	*		3610	2.5	136	*	0.996-1.006	
Tetra	PCB-55	3.71e+05	0.87	y 36:16	1.04	720		*	2.5	*	1.009	1.005-1.015	
Tetra	PCB-56/60	9.28e+06	0.76	y 36:46	1.01	18600		*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	3.97e+05	0.69	y 37:52	1.08	743		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.27	*		3610	2.5	149	*	0.982-0.992	
Tetra	PCB-81	2.45e+05	0.73	y 39:03	1.33	411		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	*	*	n NotF η	1.10	7140 *		2610	2.5	171	*	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.18	*		2090	2.5	221	*	0.996-1.006	
Penta	PCB-96	1.23e+05	1.53	y 33:56	1.14	430		*	2.5	*	1.039	1.034-1.044	
Penta	PCB-103	7.65e+04	1.36	y 34:28	0.96	319		*	2.5	*	1.055	1.050-1.060	
Penta	PCB-100	3.05e+04	1.55	y 34:50	0.94	130		*	2.5	*	1.066	1.061-1.071	
Penta	PCB-94	6.01e+04	1.39	y 35:18	1.06	322		*	2.5	*	0.986	0.980-0.990	
Penta	PCB-95/98/102	1.04e+07	1.58	y 35:50	1.22	48200		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-93	*	*	n NotF η	0.84	*		2090	2.5	457	*	0.997-1.007	
Penta	PCB-88/91	1.71e+06	1.57	y 36:14	1.12	8670		*	2.5	*	1.012	1.005-1.015	
Penta	PCB-121	*	*	n NotF η	1.62	*		2090	2.5	239	*	1.009-1.019	
Penta	PCB-84/92	5.60e+06	1.63	y 37:08	1.05	27200		*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	1.36e+05	1.42	y 37:20	1.13	610		*	2.5	*	0.996	0.991-1.001	

* See ORIGINAL injection

Analyst: DMS

Date: 3/27/15

Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1@20X

Filename: 150319E1 S:6 Acq:19-MAR-15 18:09:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.902

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.60e+07	1.64	y 37:31	1.10	73600	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.41	*		2090	2.5	243	*	1.002-1.012	
Penta	PCB-99	6.57e+06	1.61	y 37:50	1.34	25000	*	*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	2.92e+05	1.56	y 38:19	1.53	975	*	*	2.5	*	0.988	0.982-0.992	
Penta	PCB-108/112	6.69e+05	1.54	y 38:28	1.28	2670	*	*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.52	*		2090	2.5	239	*	0.990-1.000	
Penta	PCB-97	4.68e+06	1.58	y 38:50	1.18	20200	*	*	2.5	*	1.001	0.995-1.005	
Penta	PCB-86	3.93e+04	1.40	y 38:57	0.84	238	*	*	2.5	*	1.004	0.999-1.009	
Penta	PCB-87/117/125	8.32e+06	1.65	y 39:07	1.55	27400	*	*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	2.93e+05	1.78	y 39:15	1.63	918	*	*	2.5	*	1.012	1.006-1.016	
Penta	PCB-85/116	2.88e+06	1.48	y 39:21	1.30	11300	*	*	2.5	*	1.014	1.010-1.020	
Penta	PCB-120	4.51e+04	1.38	y 39:34	1.68	137	*	*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	2.47e+07	1.61	y 39:45	1.56	81300	*	*	2.5	*	1.024	1.020-1.030	
Penta	PCB-82	1.86e+06	1.59	y 40:23	0.76	10300	*	*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	1.08e+06	1.66	y 41:04	1.47	3100	*	*	2.5	*	0.993	0.988-0.998	
Penta	PCB-107/109	1.54e+06	1.62	y 41:14	1.32	4900	*	*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	3.74e+05	1.38	y 41:23	1.17	1350	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-106/118	2.31e+07	1.62	y 41:33	1.17	79900	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	8.56e+05	1.65	y 42:13	1.30	1840	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	3.51e+05	1.63	y 42:21	1.12	872	*	*	2.5	*	1.004	0.999-1.009	
Penta	PCB-105	1.52e+07	1.63	y 43:04	1.30	35700	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.33	*		3920	2.5	277	*	0.996-1.006	
Penta	PCB-126	5.27e+05	1.66	y 45:18	1.18	1440	*	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.11	*		1720	2.5	267	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.00	*		1720	2.5	298	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.12	*		1720	2.5	267	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.20	*		1720	2.5	248	*	1.055-1.065	
Hexa	PCB-136	1.39e+06	1.28	y 39:34	1.18	7230	*	*	2.5	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF η	0.74	*		1720	2.5	400	*	1.066-1.076	
Hexa	PCB-154	1.05e+05	1.25	y 40:10	0.86	747	*	*	2.5	*	1.084	1.080-1.090	
Hexa	PCB-151	1.59e+06	1.34	y 40:48	0.75	13000	*	*	2.5	*	1.101	1.097-1.107	
Hexa	PCB-135	1.04e+06	1.22	y 41:00	0.79	8020	*	*	2.5	*	1.107	1.103-1.113	
Hexa	PCB-144	4.93e+05	1.26	y 41:07	0.76	3960	*	*	2.5	*	1.110	1.105-1.117	
Hexa	PCB-147	1.78e+05	1.41	y 41:15	0.82	1330	*	*	2.5	*	1.113	1.109-1.121	
Hexa	PCB-139/149	7.47e+06	1.30	y 41:30	0.76	59900	*	*	2.5	*	1.120	1.116-1.128	
Hexa	PCB-140	4.99e+04	1.53	n 41:42	0.72	422	R	*	2.5	*	1.126	1.121-1.133	
Hexa	PCB-134/143	1.16e+06	1.18	y 42:10	0.92	4980	*	*	2.5	*	0.976	0.970-0.980	

Analyst: DMS

Date: 3/27/15

Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1@20X

Filename: 150319E1 S:6 Acq:19-MAR-15 18:09:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.902

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	6.01e+05	1.21	y 42:26	0.82	2900		*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.91	*		2260	2.5	285	*	0.981-0.991	
Hexa	PCB-146/165	3.11e+06	1.23	y 42:50	1.25	9870		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	7.54e+06	1.16	y 43:05	1.10	26900		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	2.13e+07	1.25	y 43:14	1.25	67300		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF η	1.45	*		2260	2.5	178	*	1.001-1.011	
Hexa	PCB-141	4.43e+06	1.23	y 43:58	1.09	16500		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-137	1.38e+06	1.25	y 44:20	1.06	5280		*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	1.46e+06	1.27	y 44:27	0.96	6110		*	2.5	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	2.87e+07	1.21	y 44:49	1.29	91200		*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-158/160	3.74e+06	1.25	y 45:03	1.34	11400		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	1.22e+06	1.27	y 45:18	0.85	5850		*	2.5	*	1.011	1.007-1.017	
Hexa	PCB-166	1.43e+05	1.39	y 45:46	1.19	387		*	2.5	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.11	*		2260	2.5	179	*	0.996-1.006	
Hexa	PCB-128/162	5.00e+06	1.19	y 46:22	1.05	15300		*	2.5	*	1.007	1.002-1.012	
Hexa	PCB-167	1.57e+06	1.15	y 46:46	1.20	4180		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	3.92e+06	1.18	y 48:04	1.14	11400		*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-157	9.18e+05	1.19	y 48:20	1.16	2560		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.12	*		2260	2.5	181	*	0.995-1.005	
Hepta	PCB-188	3.22e+04	1.03	y 42:51	1.58	112		*	2.5	*	1.000	0.996-1.006	
Hepta	PCB-184	1.84e+04	0.76	n 43:18	1.63	61.7	R	*	2.5	*	1.011	1.006-1.016	
Hepta	PCB-179	1.75e+06	1.06	y 44:04	1.30	7370		*	2.5	*	1.029	1.024-1.034	
Hepta	PCB-176	5.96e+05	1.17	y 44:32	1.48	2210		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.45	*		1880	2.5	129	*	1.050-1.060	
Hepta	PCB-178	7.30e+05	1.03	y 45:39	1.03	3870		*	2.5	*	1.066	1.061-1.071	
Hepta	PCB-175	1.76e+05	1.15	y 45:59	1.01	954		*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	5.19e+06	1.06	y 46:09	1.25	22800		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	2.55e+06	1.13	y 46:29	1.21	11600		*	2.5	*	1.085	1.081-1.091	
Hepta	PCB-185	4.33e+05	0.99	y 47:08	1.80	1700		*	2.5	*	0.955	0.951-0.961	
Hepta	PCB-174	3.80e+06	1.06	y 47:30	1.38	19400		*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.38	*		1880	2.5	175	*	0.960-0.970	
Hepta	PCB-177	2.05e+06	1.08	y 47:46	1.26	11500		*	2.5	*	0.968	0.963-0.973	
Hepta	PCB-171	9.97e+05	1.00	y 48:04	1.58	4440		*	2.5	*	0.974	0.970-0.980	
Hepta	PCB-173	6.14e+04	0.93	y 48:30	1.11	390		*	2.5	*	0.983	0.978-0.988	
Hepta	PCB-172	7.22e+05	1.14	y 48:57	1.63	3110		*	2.5	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*		1880	2.5	138	*	0.991-1.001	
Hepta	PCB-180	1.00e+07	1.05	y 49:21	1.34	52500		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 3/27/15

Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1@20X

Filename: 150319E1 S:6 Acq:19-MAR-15 18:09:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.902

ConCal: ST150319E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	5.33e+05	1.07	y 49:34	1.72	2190		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	2.41e+05	1.20	y 49:49	1.69	1010		*	2.5	*	1.010	1.004-1.014	
Hepta	PCB-170	3.69e+06	1.06	y 50:51	1.60	20500		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	1.01e+06	1.05	y 51:02	2.21	4060		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	1.83e+05	0.92	y 52:21	1.55	824		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	4.71e+05	0.98	y 48:16	1.08	2940		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	3.16e+05	1.00	y 48:45	1.15	1860		*	2.5	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.14	*		1720	2.5	239	*	1.008-1.018	
Octa	PCB-197	7.18e+04	1.17	n 49:13	1.07	452	R	*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	2.63e+05	0.92	y 50:06	1.06	1670		*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	8.51e+04	1.01	y 51:27	0.76	761		*	2.5	*	1.066	1.059-1.069	
Octa	PCB-199	1.76e+06	0.88	y 51:33	0.80	14900		*	2.5	*	1.068	1.061-1.071	
Octa	PCB-196/203	2.21e+06	0.96	y 51:49	0.80	18600		*	2.5	*	1.074	1.066-1.076	
Octa	PCB-195	9.44e+05	0.95	y 53:00	1.23	3820		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	2.92e+06	0.96	y 53:51	1.21	12000		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	1.67e+05	0.80	y 54:08	1.54	537		*	2.5	*	1.005	1.001-1.011	
Nona	PCB-208	5.56e+05	1.25	y 53:08	0.93	2470		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	2.71e+05	1.54	y 53:26	1.08	1030		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	1.48e+06	1.41	y 55:29	1.02	8950		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.80e+05	1.27	y 56:52	1.17	1560		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 3/27/15

Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1@20X

Filename: 150319E1 S:6 Acq:19-MAR-15 18:09:45
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.9024 EndCAL: NA

ConCal: ST150319E1-1

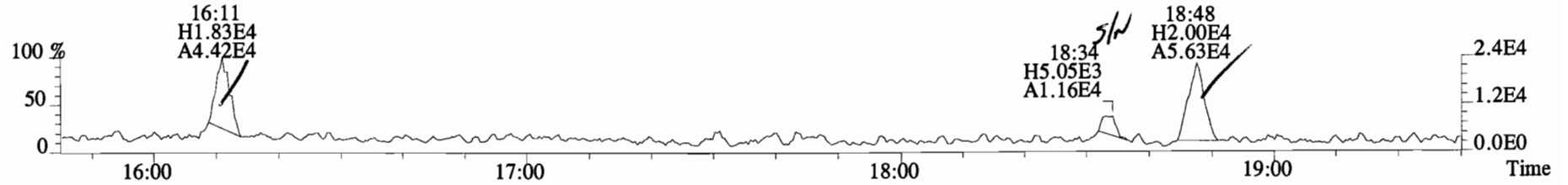
Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	1.62e+05	3.16 y	16:11	1.27	238.725
Total Di-PCB	5.13e+06	1.57 y	22:58	1.21	7261.46
Total Tri-PCB	3.18e+06	1.01 y	24:15	1.10	7545.20
Total Tri-PCB	2.16e+07	0.97 y	28:30	1.21	29849.5 Sum:37394.7
Total Tetra-PCB	8.16e+07	0.82 y	29:47	1.09	185629 + 7140.93 = 192769.93
Total Penta-PCB	1.11e+08	1.53 y	33:56	1.18	429155
Total Penta-PCB	1.69e+07	1.65 y	42:13	1.25	39860.6 Sum:469016
Total Hexa-PCB	1.23e+07	1.28 y	39:34	0.90	94240.5
Total Hexa-PCB	8.62e+07	1.18 y	42:10	1.11	282138 Sum:376378
Total Hepta-PCB	3.48e+07	1.03 y	42:51	1.42	170587
Total Octa-PCB	5.10e+06	0.98 y	48:16	0.96	40730.2
Total Octa-PCB	4.03e+06	0.95 y	53:00	1.33	16330.8 Sum:57061.0
Total Nona-PCB	2.30e+06	1.25 y	53:08	1.01	12458.5
Total Deca-PCB	2.80e+05	1.27 y	56:52	1.17	1564.95

Total PCB Conc: ~~1319002.60009~~ + 7140.93 = ~~1,326,143.53~~
1320000

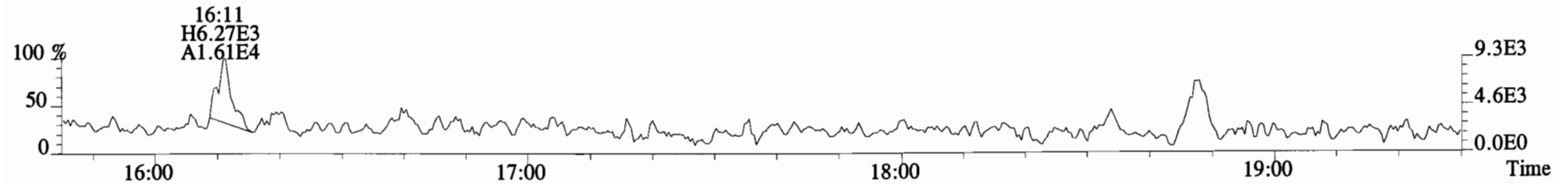
Integrations
by
Analyst: DMS
Date: 3/22/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.19e+06	3.25 y	0.87	16:10	0.623	0.629-0.635	OK	9000	85.6											
13C-PCB-3	5.78e+06	3.35 y	0.91	18:47	0.723	0.725-0.733		9580	91.2	13C-PCB-79	5.14e+06	0.80 y	1.02	37:49	1.029	1.023-1.034			9580	91.1
13C-PCB-4	3.80e+06	1.59 y	0.59	20:06	0.774	0.775-0.783		9790	93.1	13C-PCB-178	1.36e+06	0.47 y	0.61	45:38	0.985	0.979-0.990			9910	94.3
13C-PCB-9	6.01e+06	1.50 y	0.90	21:53	0.843	0.842-0.850		10100	96.4											
13C-PCB-11	6.58e+06	1.51 y	0.94	25:16	0.973	0.968-0.978		10600	101	PS vs. IS										
13C-PCB-19	3.32e+06	0.98 y	0.53	24:14	0.933	0.930-0.940		9450	89.9	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-28	5.98e+06	1.00 y	0.93	29:06	1.003	0.999-1.009		10500	100	13C-PCB-79	5.14e+06	0.80 y	1.10	37:49	0.969	0.964-0.974			10400	99.1
13C-PCB-32	5.09e+06	1.03 y	0.80	27:09	1.046	1.040-1.050		9670	91.9	13C-PCB-178	1.36e+06	0.47 y	0.90	45:38	0.925	0.920-0.930			10700	102
13C-PCB-37	5.71e+06	1.10 y	0.84	32:58	1.137	1.131-1.143		11200	106											
13C-PCB-47	3.82e+06	0.82 y	0.81	32:00	0.870	0.866-0.874		8920	84.9											
13C-PCB-52	3.69e+06	0.84 y	0.77	31:30	0.857	0.853-0.861		9060	86.2											
13C-PCB-54	4.70e+06	0.87 y	0.97	27:58	0.761	0.758-0.766		9170	87.2											
13C-PCB-70	5.02e+06	0.78 y	1.00	35:32	0.966	0.961-0.971		9520	90.5											
13C-PCB-77	4.53e+06	0.93 n	0.94	39:38	1.078	1.073-1.083		9110	(86.6)	80.8 * see original injection										
13C-PCB-80	5.20e+06	0.78 y	1.03	35:57	0.978	0.972-0.982		9550	90.8											
13C-PCB-81	4.70e+06	0.85 y	0.92	39:02	1.062	1.057-1.067		9670	91.9											
13C-PCB-95	1.86e+06	1.71 y	0.74	35:49	0.913	0.908-0.918		10100	96.2	RS										
13C-PCB-97	2.06e+06	1.74 y	0.70	38:48	0.989	0.984-0.994		11800	112	Name	Resp	RA	RRF	RT	Conc					
13C-PCB-101	2.07e+06	1.69 y	0.78	37:30	0.955	0.951-0.961		10700	101	13C-PCB-15	6.95e+06	1.54 y	1.00	25:58	10500					
13C-PCB-104	2.64e+06	1.66 y	1.00	32:40	0.832	0.828-0.836		10600	101	13C-PCB-31	6.39e+06	1.00 y	1.00	29:00	10500					
13C-PCB-105	3.44e+06	1.71 y	1.37	43:04	0.929	0.924-0.934		11200	107	13C-PCB-60	5.55e+06	0.78 y	1.00	36:46	10500					
13C-PCB-114	3.78e+06	1.51 y	1.36	42:12	0.910	0.905-0.915		12400	118	13C-PCB-111	2.61e+06	1.53 y	1.00	39:15	10500					
13C-PCB-118	2.59e+06	1.58 y	0.96	41:33	1.059	1.054-1.064		10900	104	13C-PCB-128	2.35e+06	1.30 y	1.00	46:21	10500					
13C-PCB-123	2.50e+06	1.63 y	0.89	41:22	1.054	1.050-1.060		11300	107	13C-PCB-205	2.61e+06	0.91 y	1.00	54:08	10500					
13C-PCB-126	3.25e+06	1.62 y	1.31	45:18	0.977	0.972-0.982		11100	106											
13C-PCB-127	3.61e+06	1.50 y	1.47	43:24	0.936	0.931-0.941		11000	104											
13C-PCB-138	2.56e+06	1.26 y	1.10	44:48	0.967	0.961-0.971		10400	99.0											
13C-PCB-141	2.60e+06	1.36 y	1.07	43:57	0.948	0.943-0.953		10800	103											
13C-PCB-153	2.66e+06	1.37 y	1.15	43:13	0.932	0.927-0.937		10400	98.7											
13C-PCB-155	1.72e+06	1.25 y	0.84	37:03	0.944	0.939-0.949		8270	78.6											
13C-PCB-156	3.20e+06	1.31 y	1.30	48:03	1.037	1.032-1.042		11000	105											
13C-PCB-157	3.24e+06	1.23 y	1.36	48:19	1.042	1.038-1.048		10700	101											
13C-PCB-159	3.29e+06	1.15 y	1.25	46:04	0.994	0.989-0.999		11800	112											
13C-PCB-167	3.30e+06	1.21 y	1.35	46:46	1.009	1.004-1.014		10900	104											
13C-PCB-169	3.01e+06	1.11 y	1.29	50:29	1.089	1.083-1.093		10500	99.6											
13C-PCB-170	1.18e+06	0.46 y	0.54	50:50	1.097	1.089-1.101		9760	92.8											
13C-PCB-180	1.49e+06	0.48 y	0.68	49:20	1.064	1.060-1.070		9740	92.6											
13C-PCB-188	1.92e+06	0.46 y	0.92	42:50	0.924	0.919-0.929		9330	88.8											
13C-PCB-189	1.51e+06	0.49 y	0.72	52:20	1.129	1.120-1.132		9390	89.3											
13C-PCB-194	2.12e+06	1.02 y	0.80	53:51	0.995	0.990-1.000		10700	102	Analyst: DMS										
13C-PCB-202	1.56e+06	0.86 y	0.84	48:15	1.041	1.036-1.046		8300	78.9											
13C-PCB-206	1.69e+06	0.86 y	0.65	55:28	1.025	1.021-1.031		10500	100	Date: 3/26/15										
13C-PCB-208	2.54e+06	0.70 y	1.08	53:07	0.981	0.976-0.986		9490	90.3											
13C-PCB-209	1.61e+06	1.32 y	0.61	56:51	1.050	1.045-1.055		10600	101											

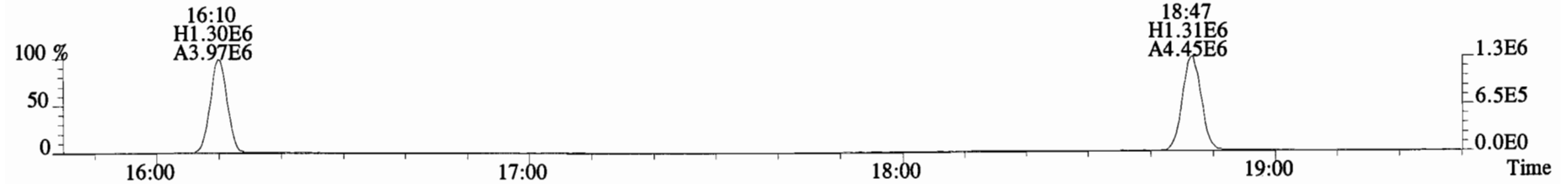
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4316.0,0.00%,F,F)



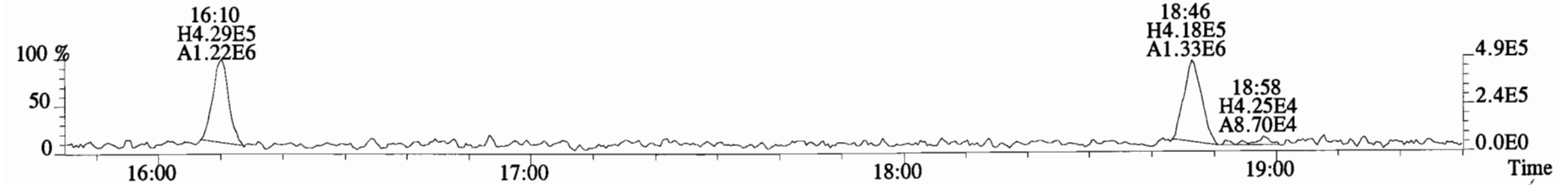
190.0363 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2924.0,0.00%,F,F)



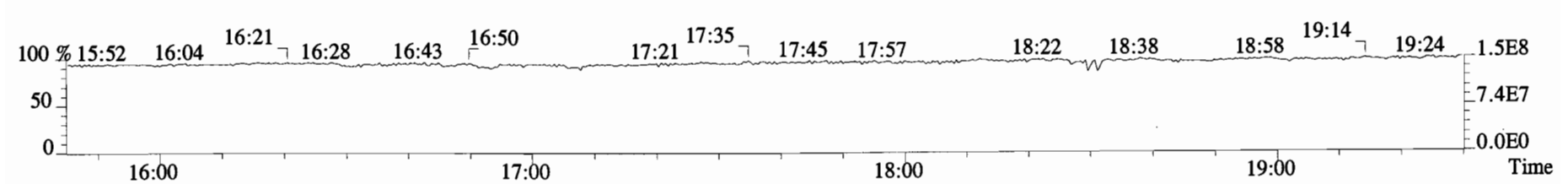
200.0795 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5632.0,0.00%,F,F)



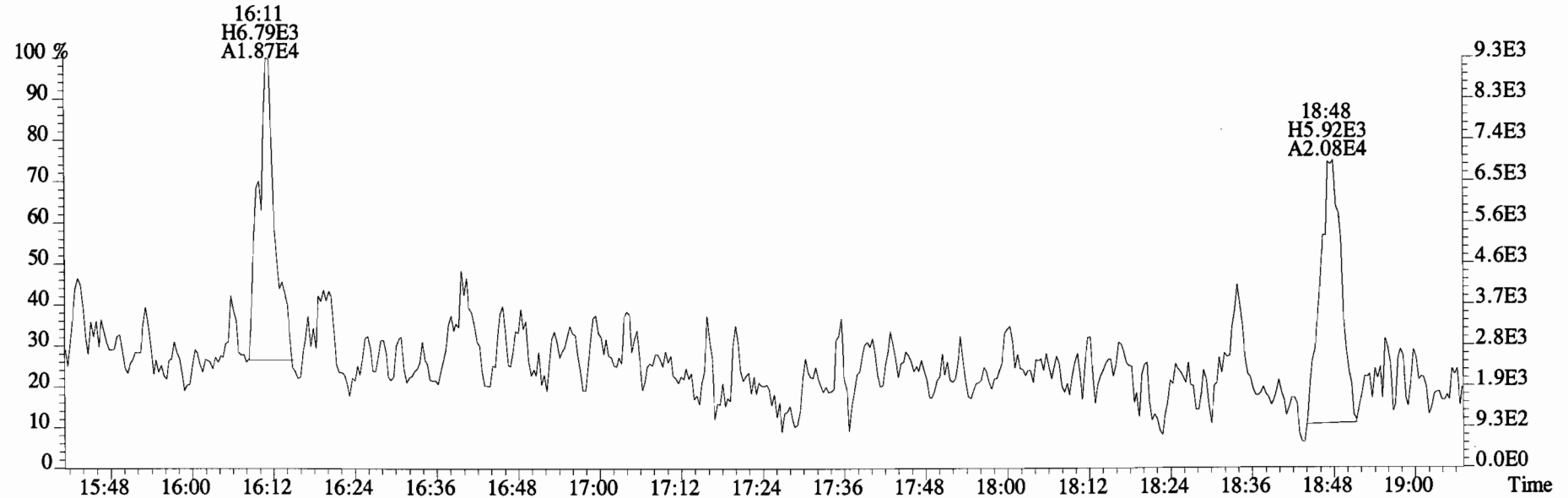
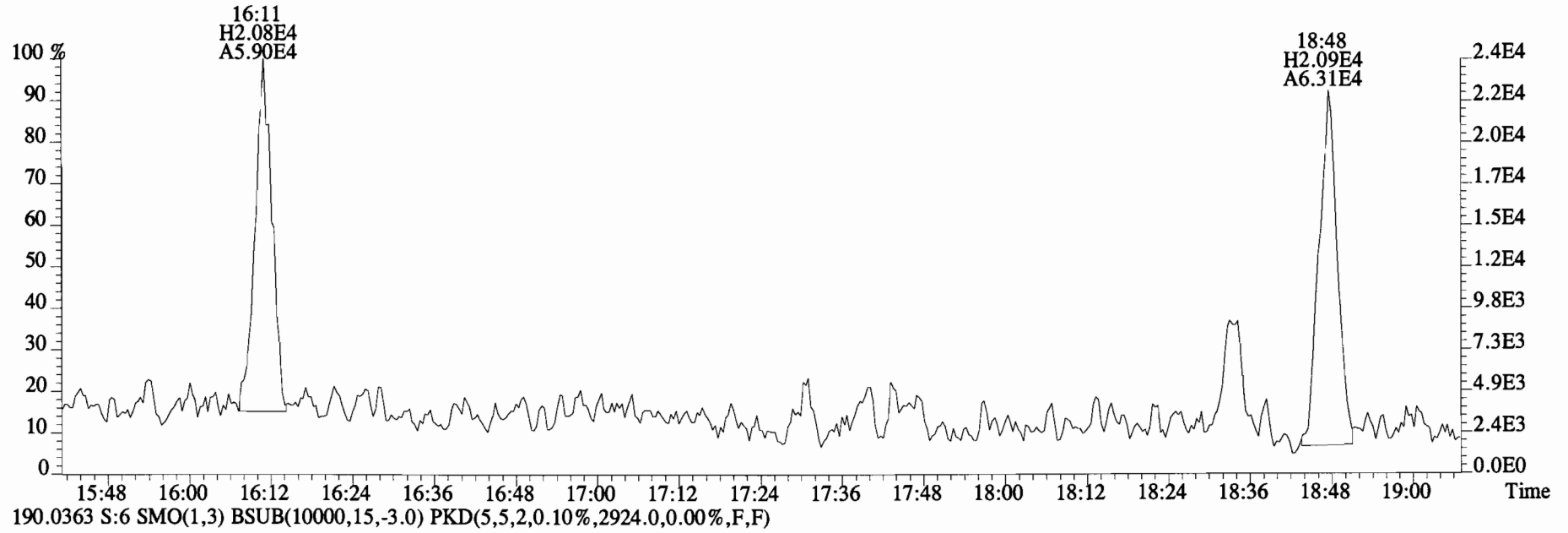
202.0766 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,60884.0,0.00%,F,F)



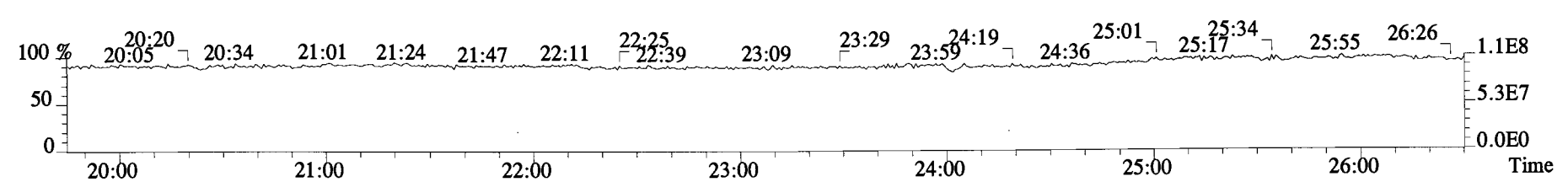
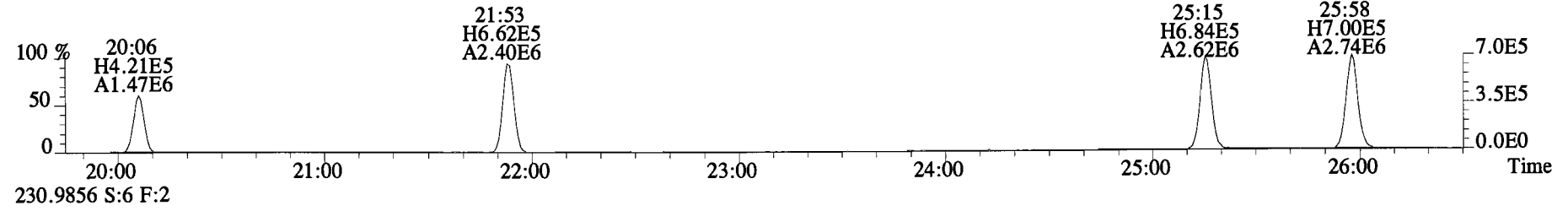
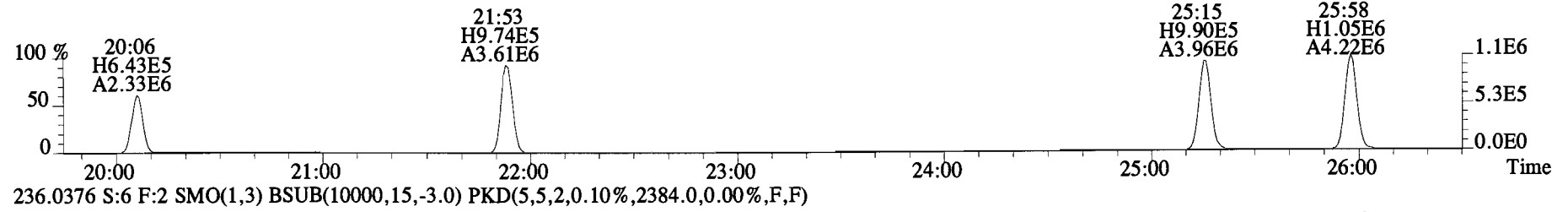
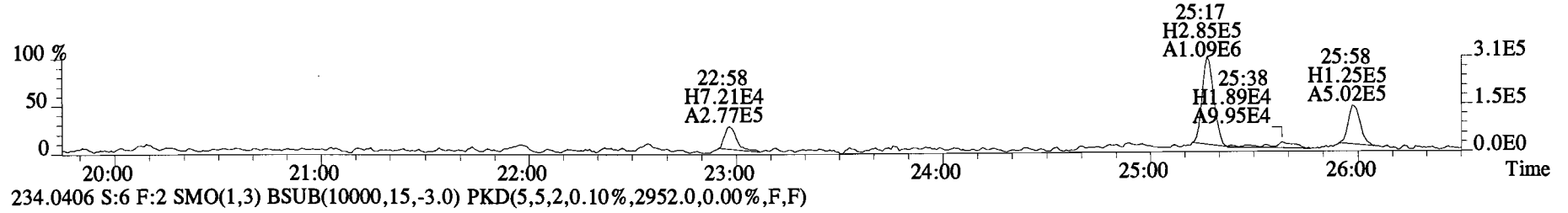
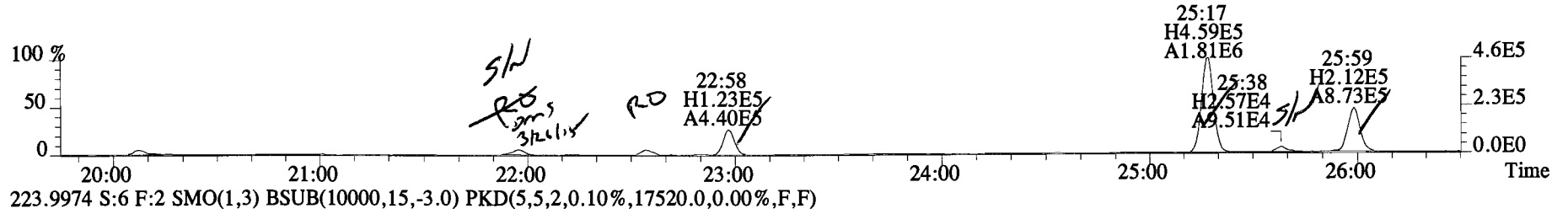
180.9880 S:6



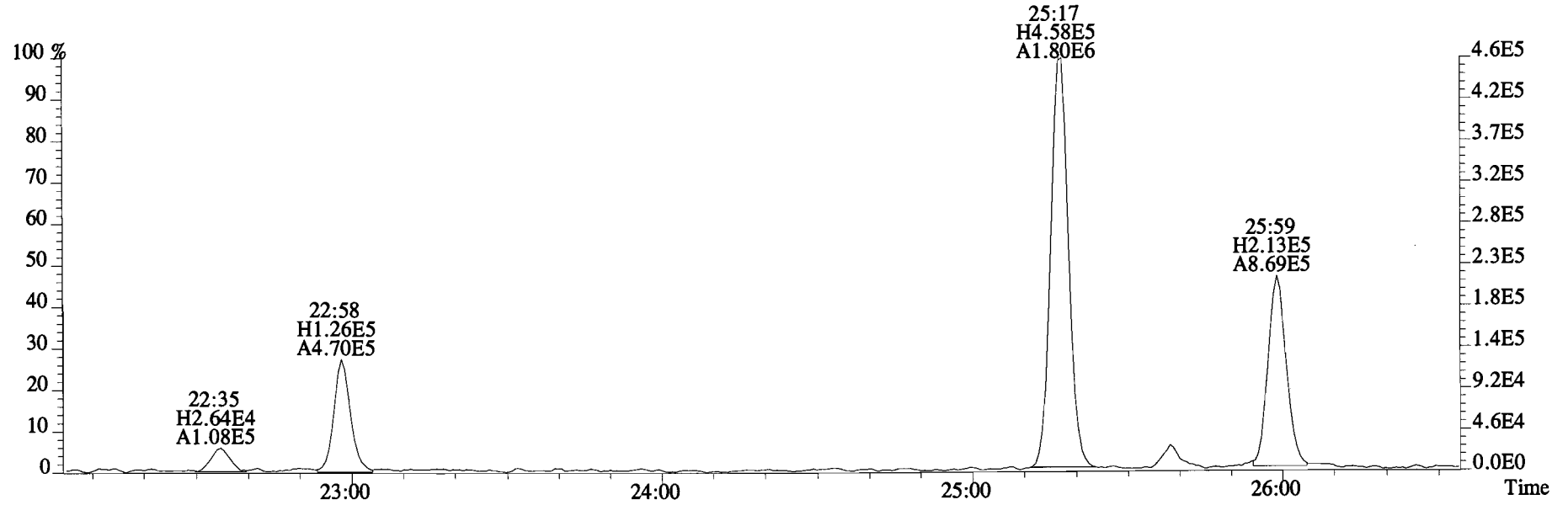
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4316.0,0.00%,F,F)



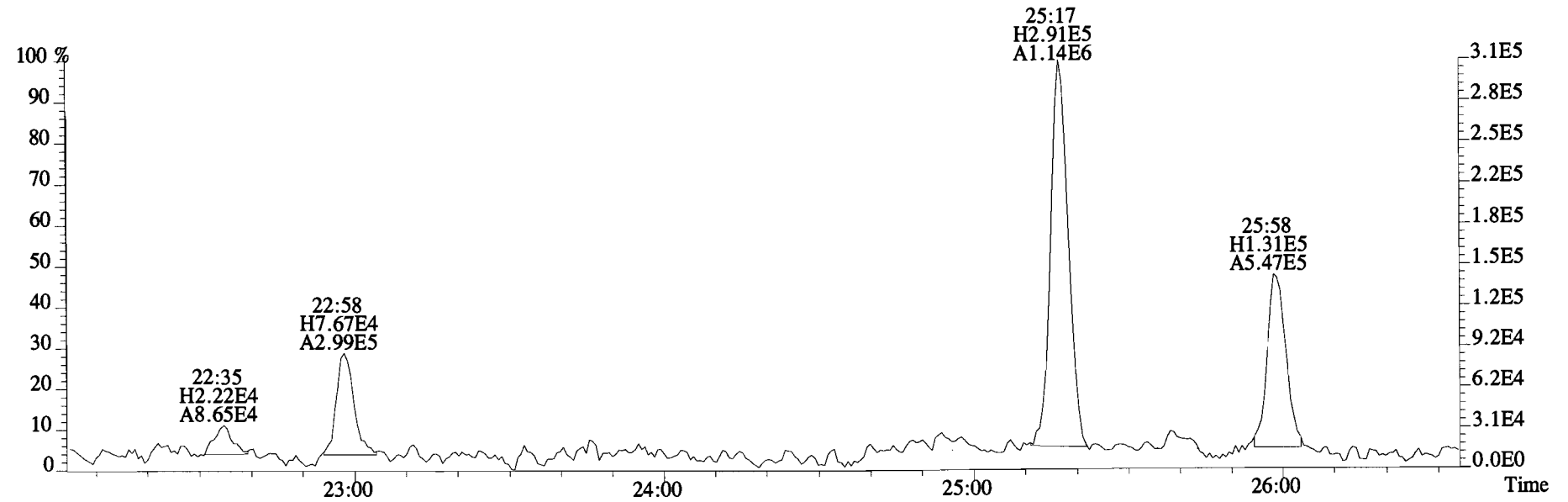
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3676.0,0.00%,F,F)



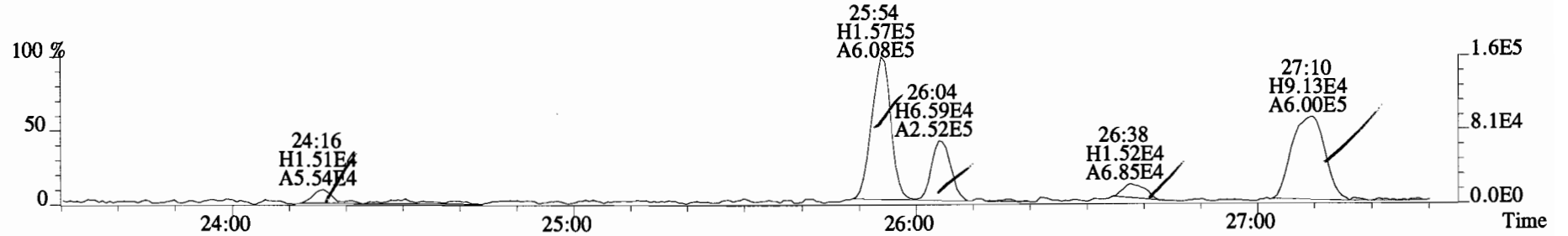
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3676.0,0.00%,F,F)



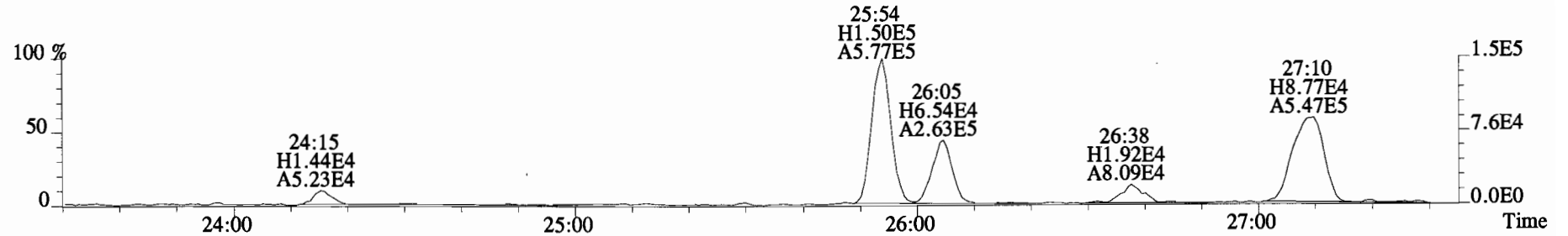
223.9974 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,17520.0,0.00%,F,F)



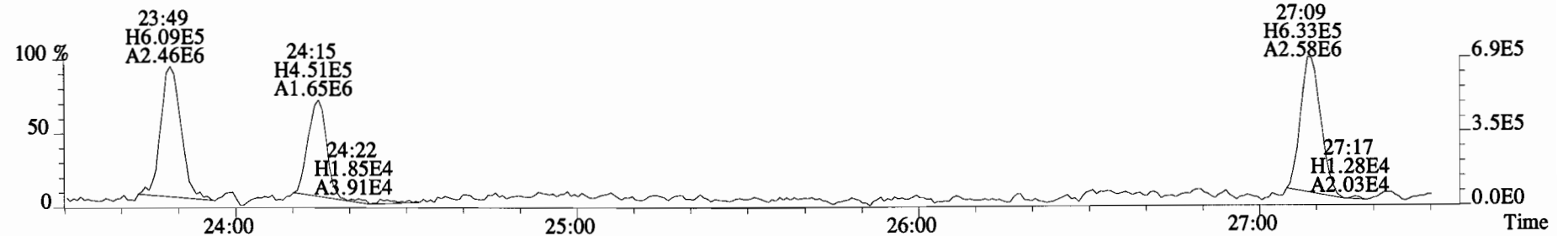
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4812.0,0.00%,F,F)



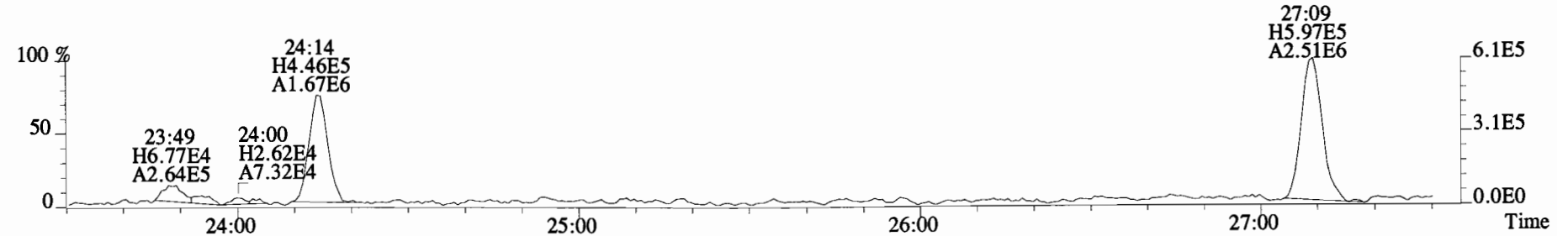
257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2224.0,0.00%,F,F)



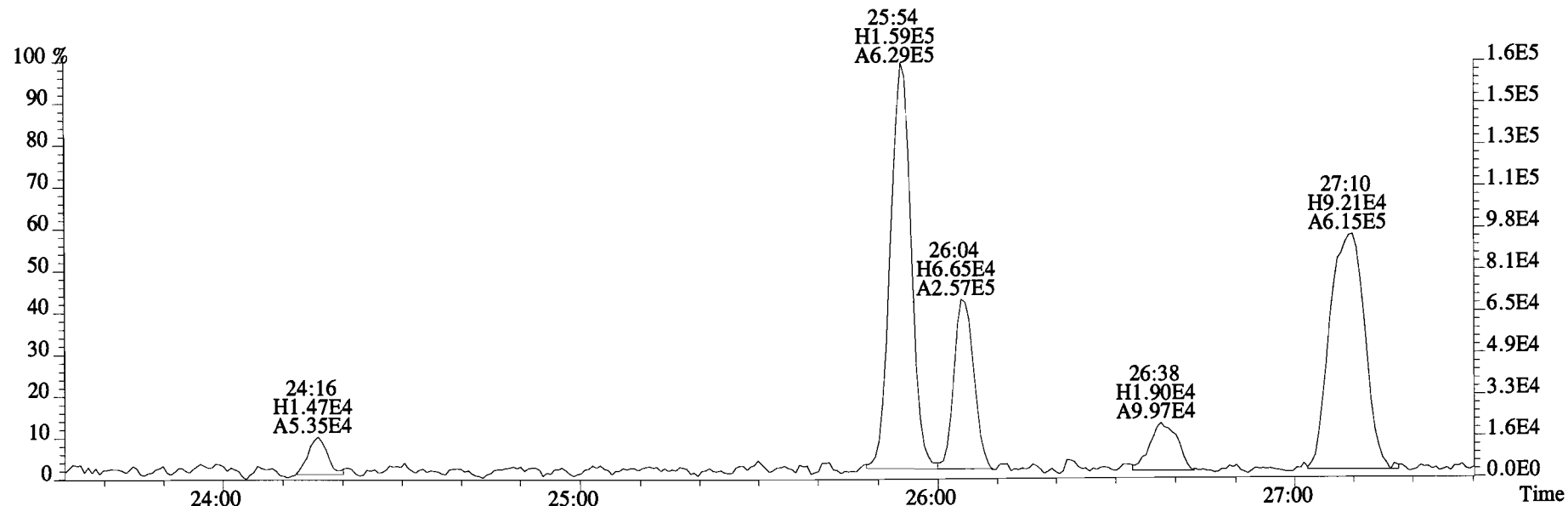
268.0016 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,56960.0,0.00%,F,F)



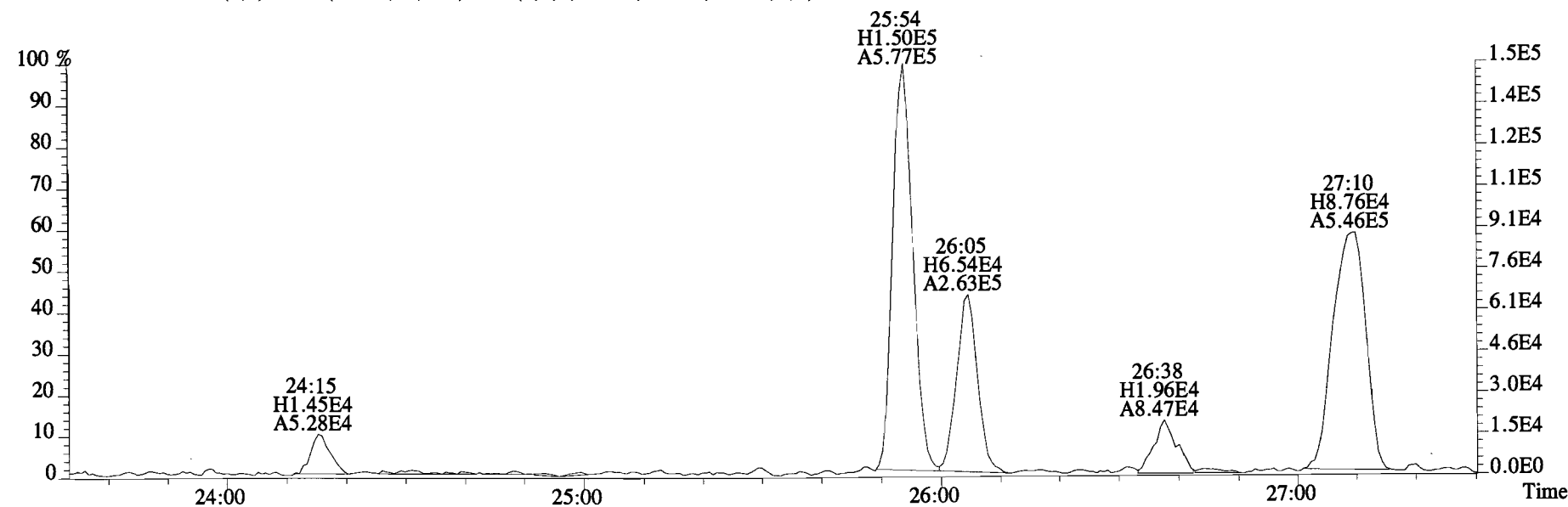
269.9986 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,30836.0,0.00%,F,F)



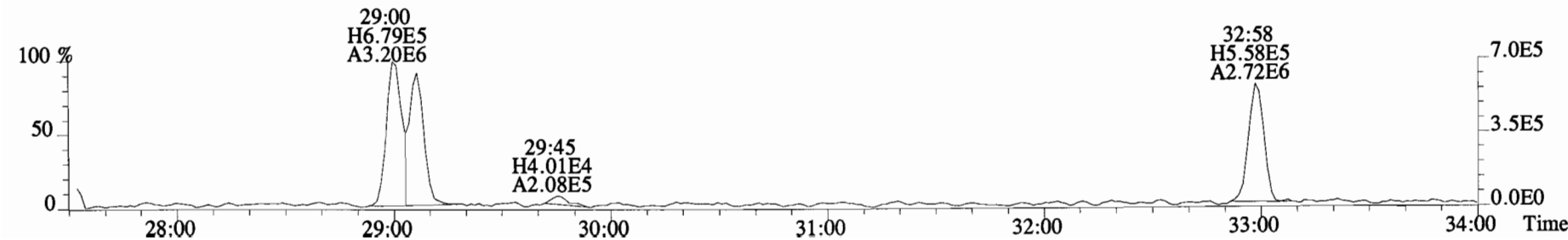
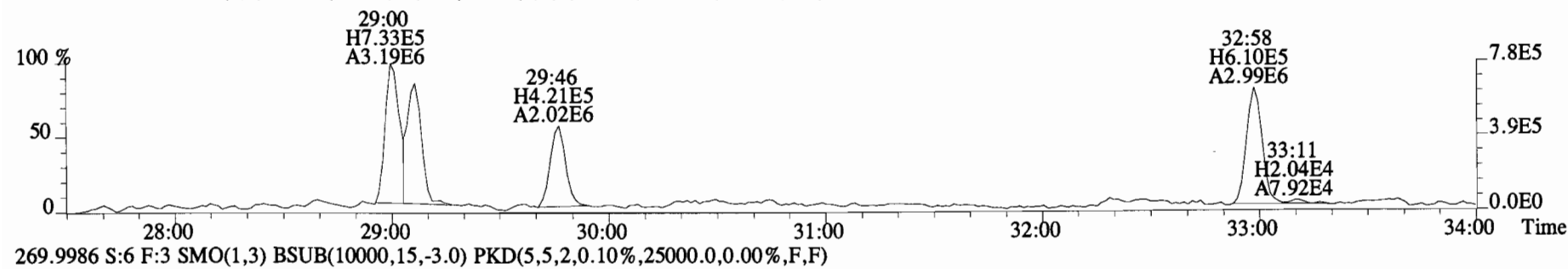
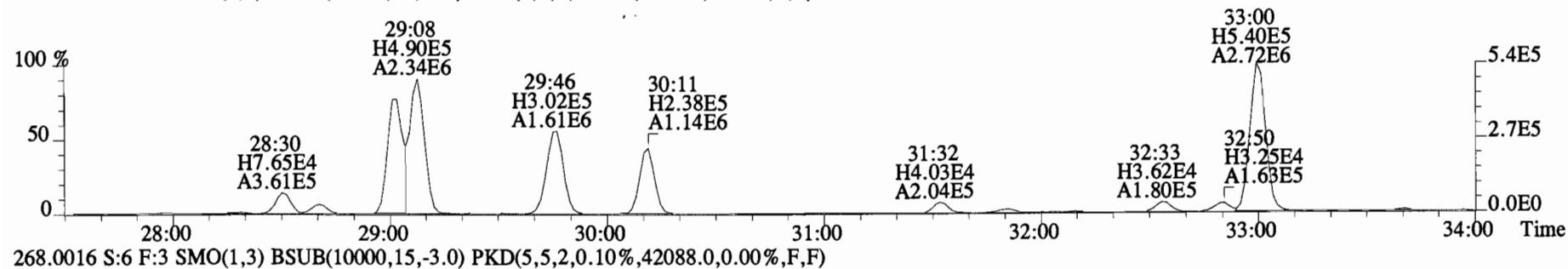
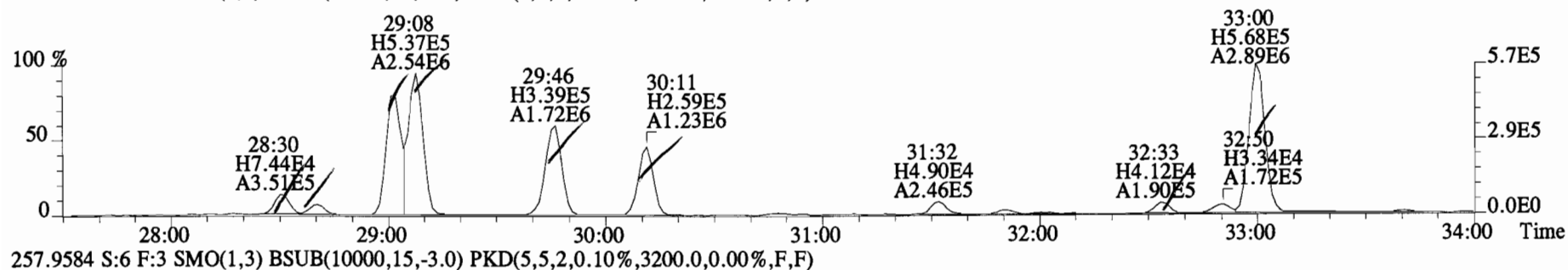
File:150319E1 #1-757 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
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255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4812.0,0.00%,F,F)



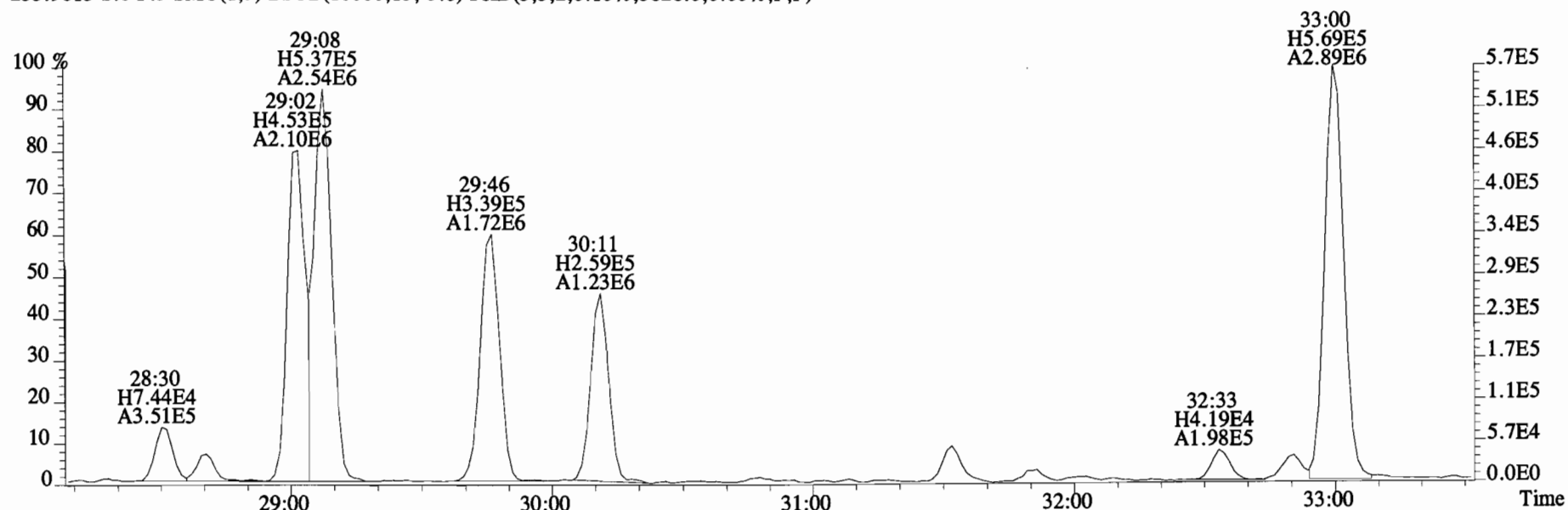
257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2224.0,0.00%,F,F)



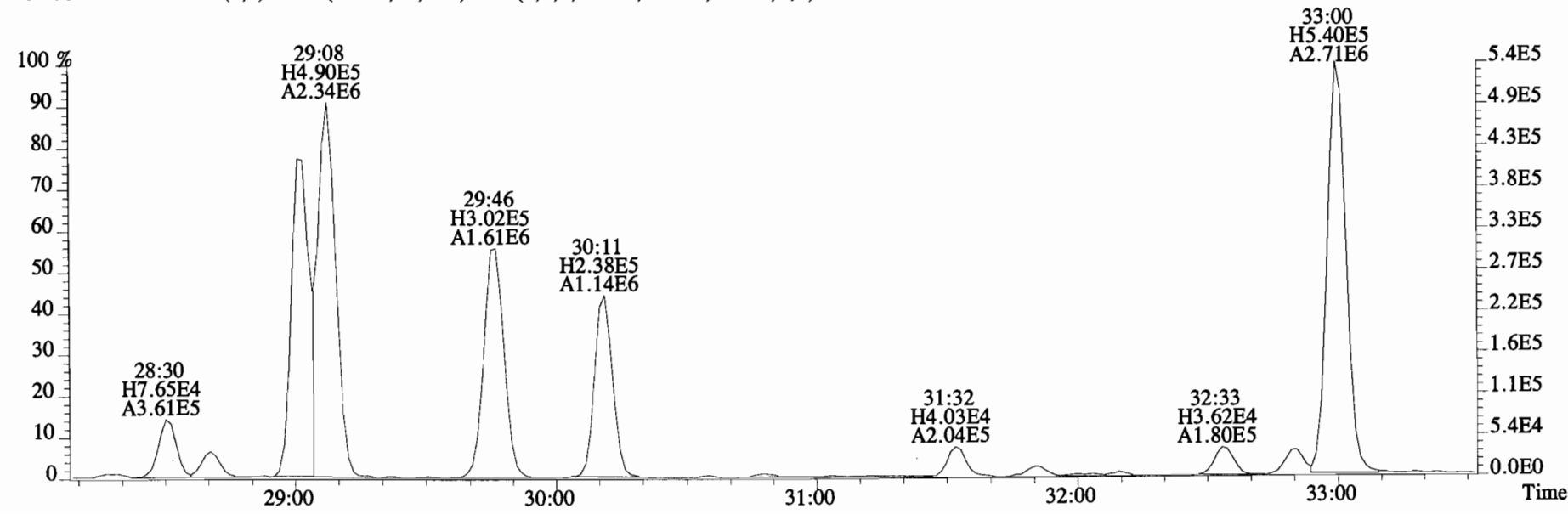
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5828.0,0.00%,F,F)



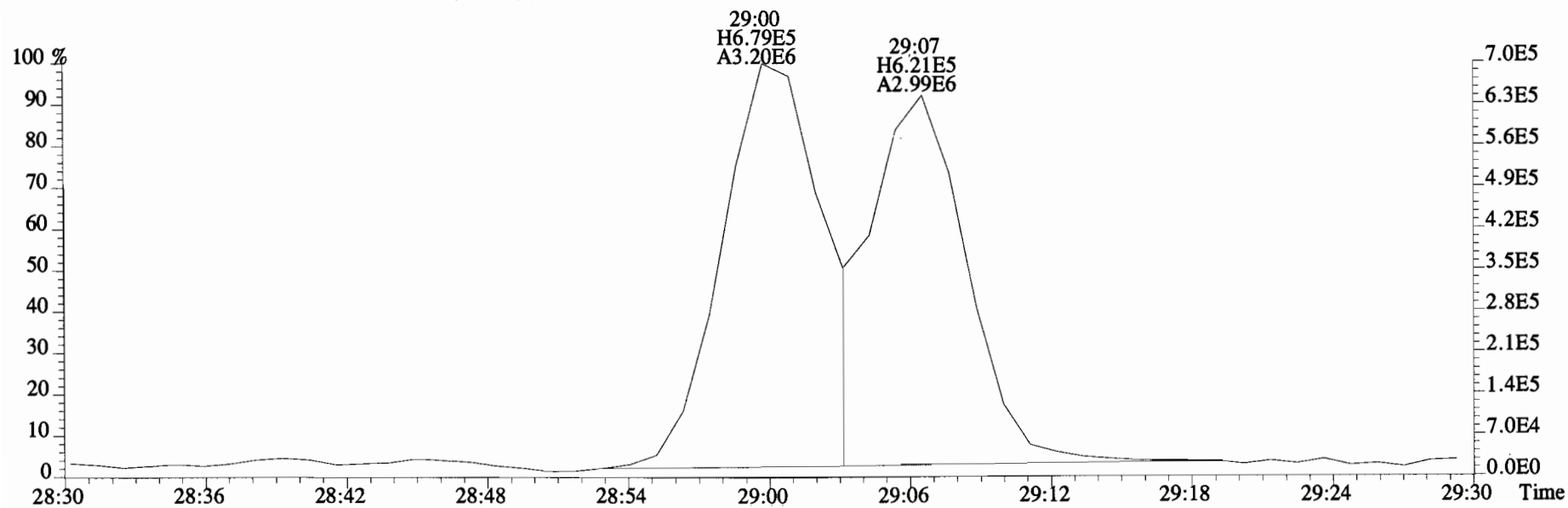
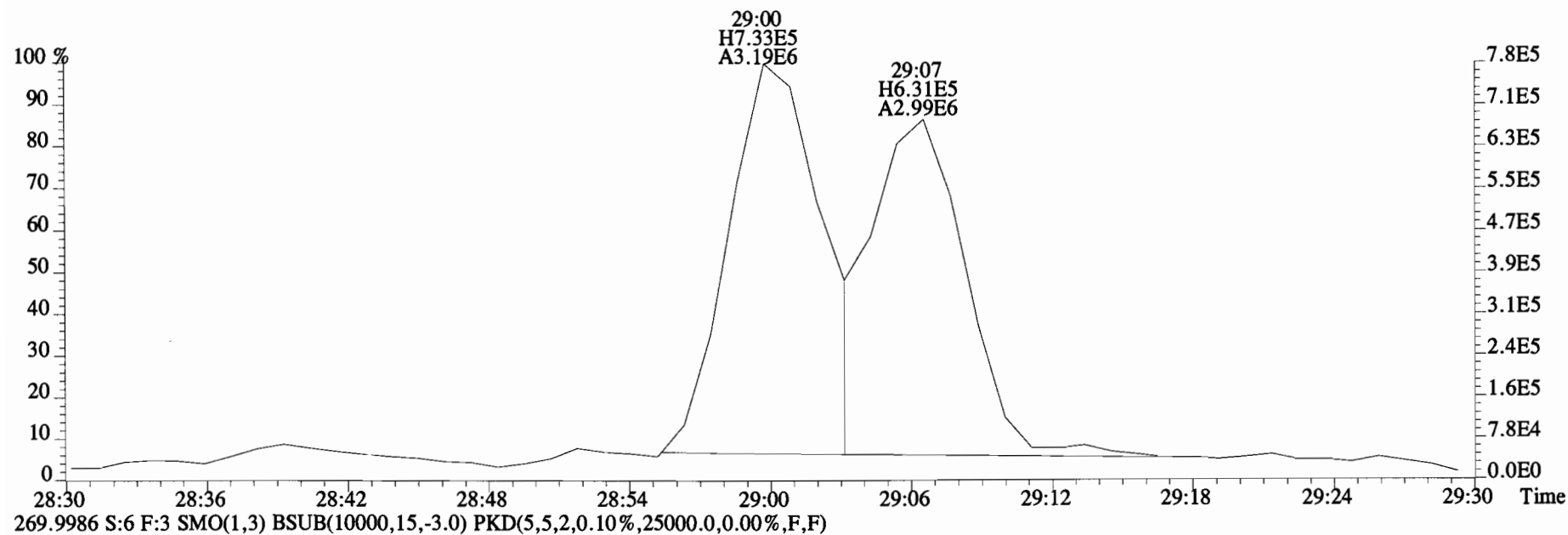
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
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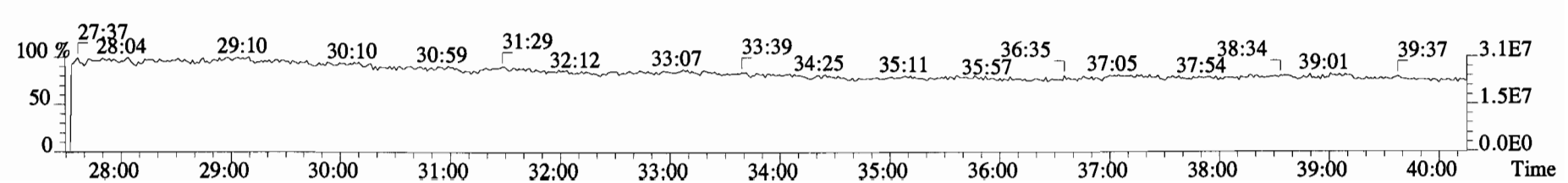
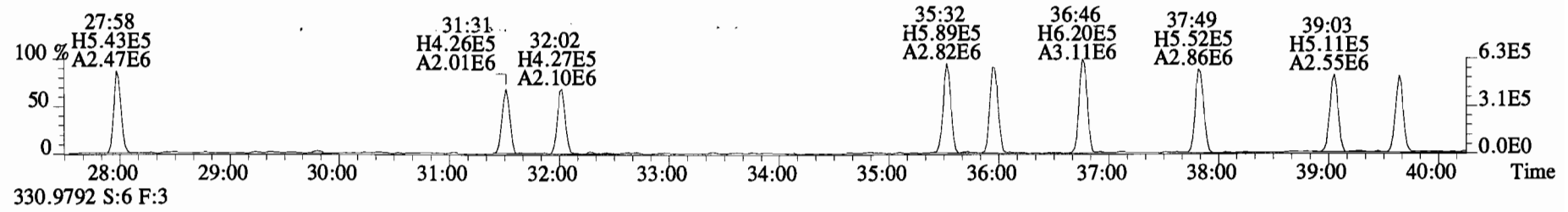
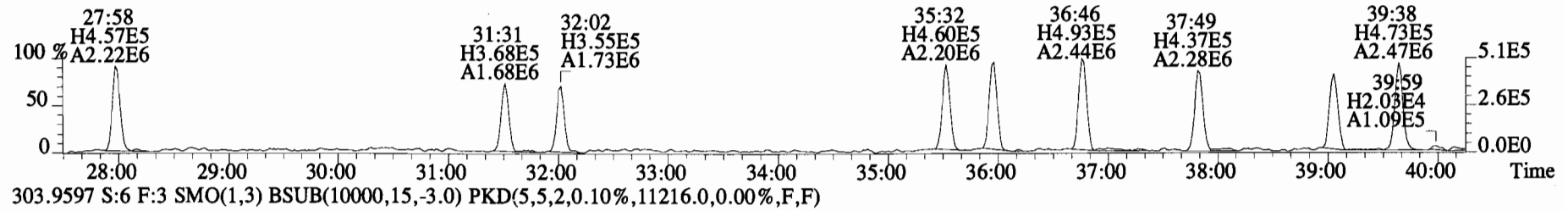
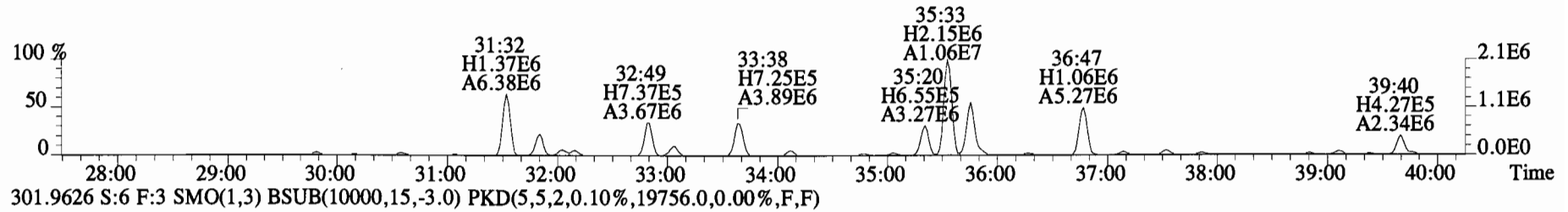
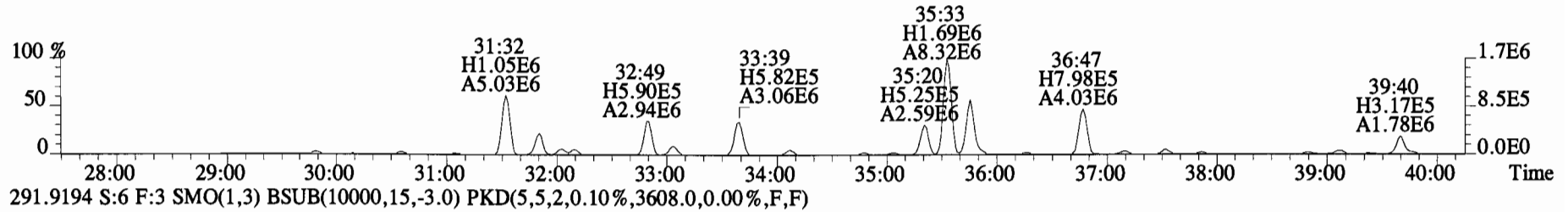
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3200.0,0.00%,F,F)



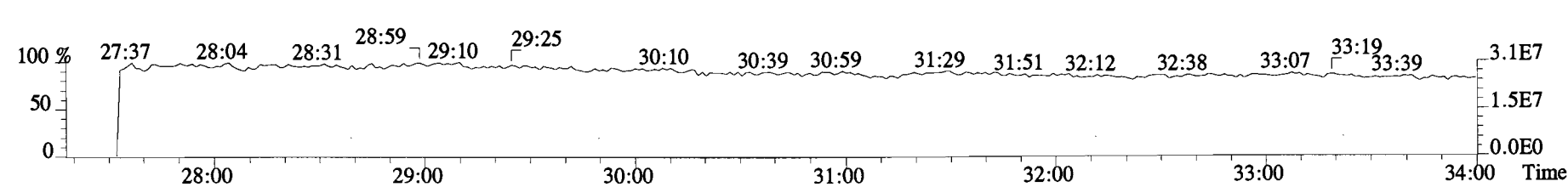
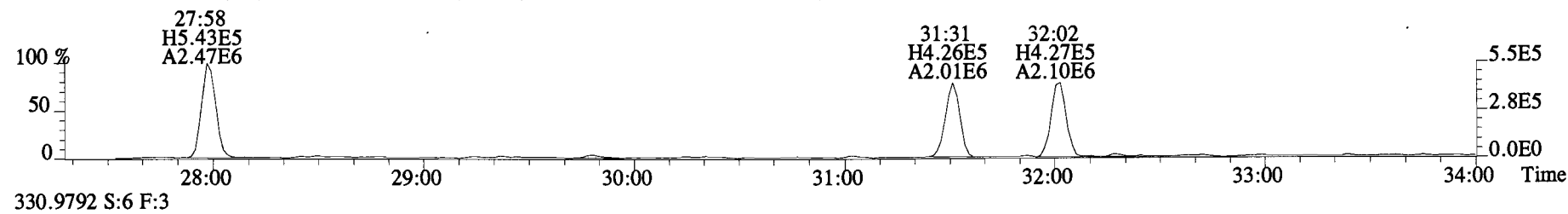
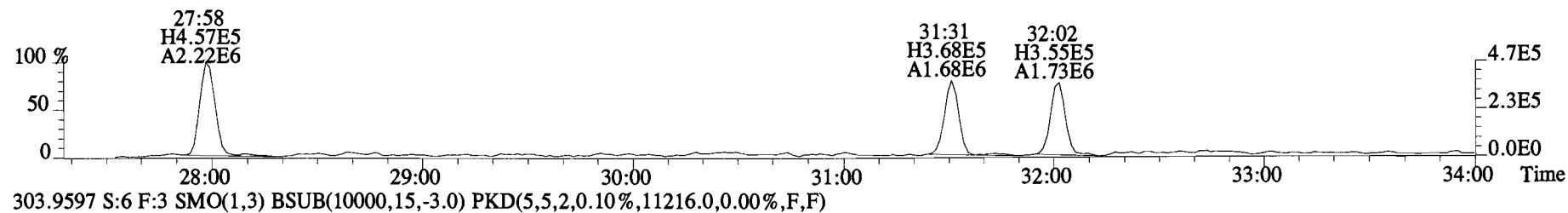
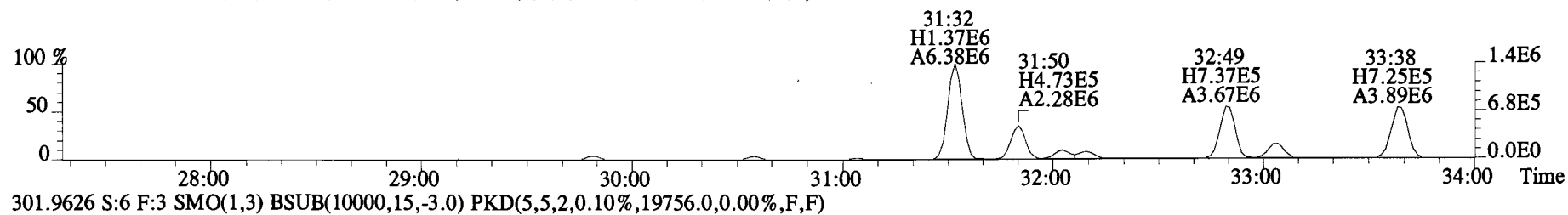
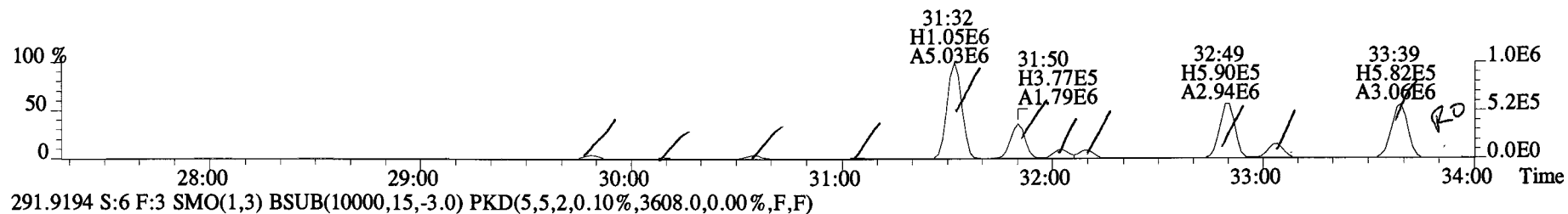
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,42088.0,0.00%,F,F)



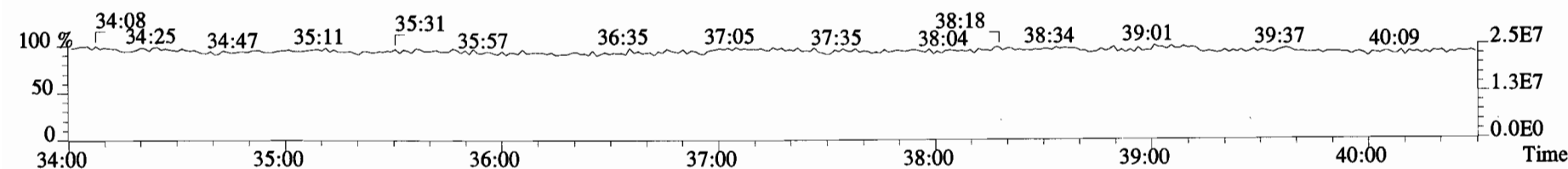
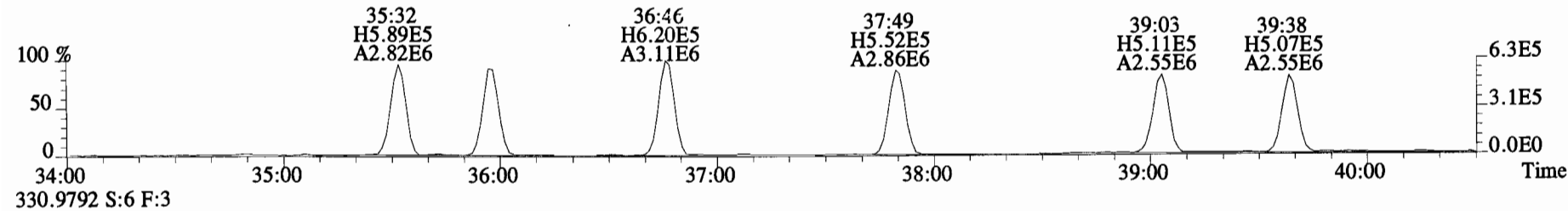
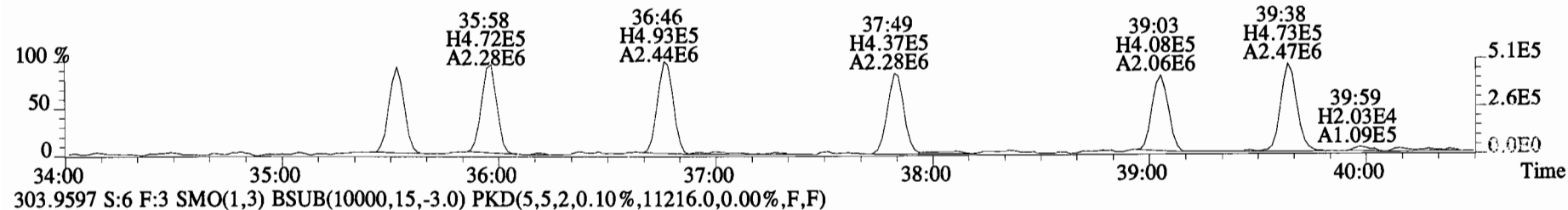
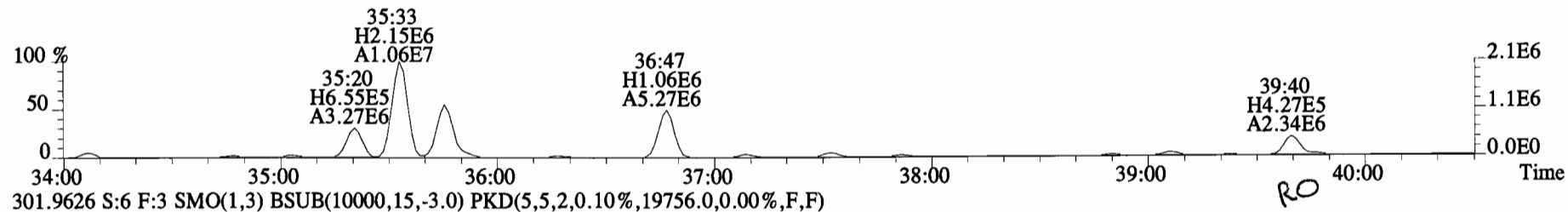
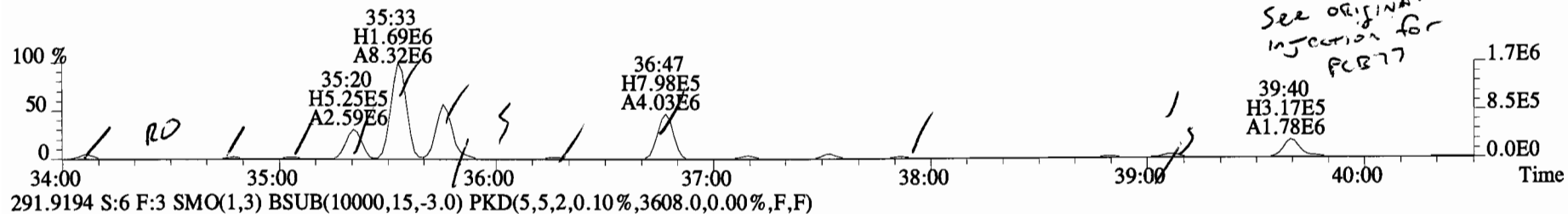
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2900.0,0.00%,F,F)



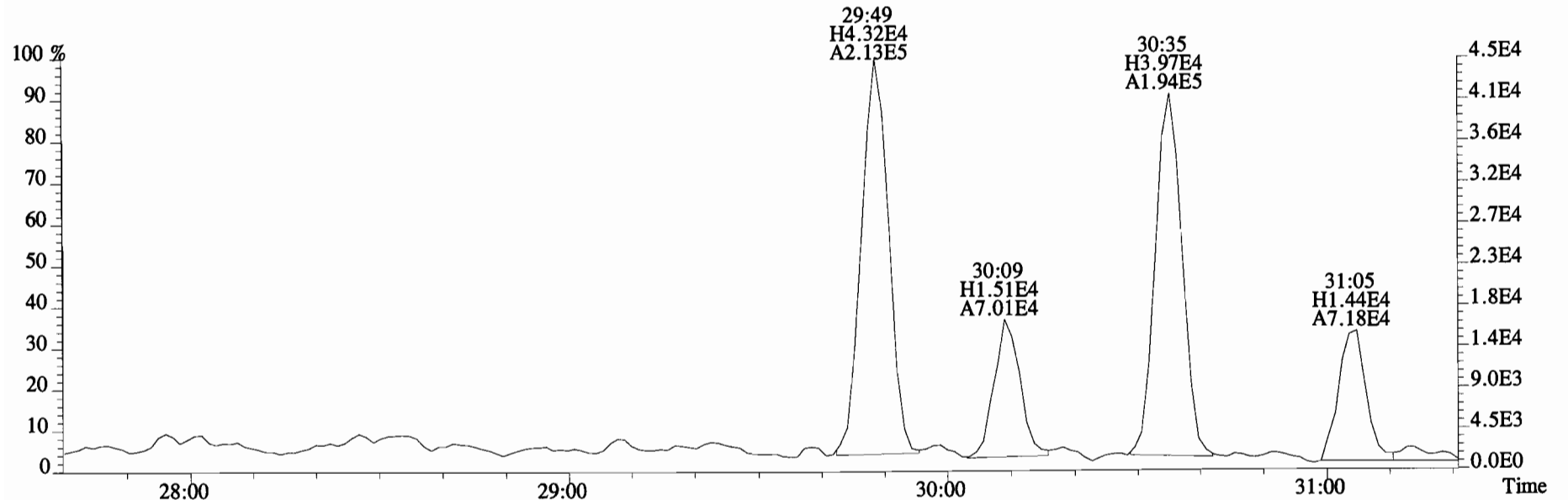
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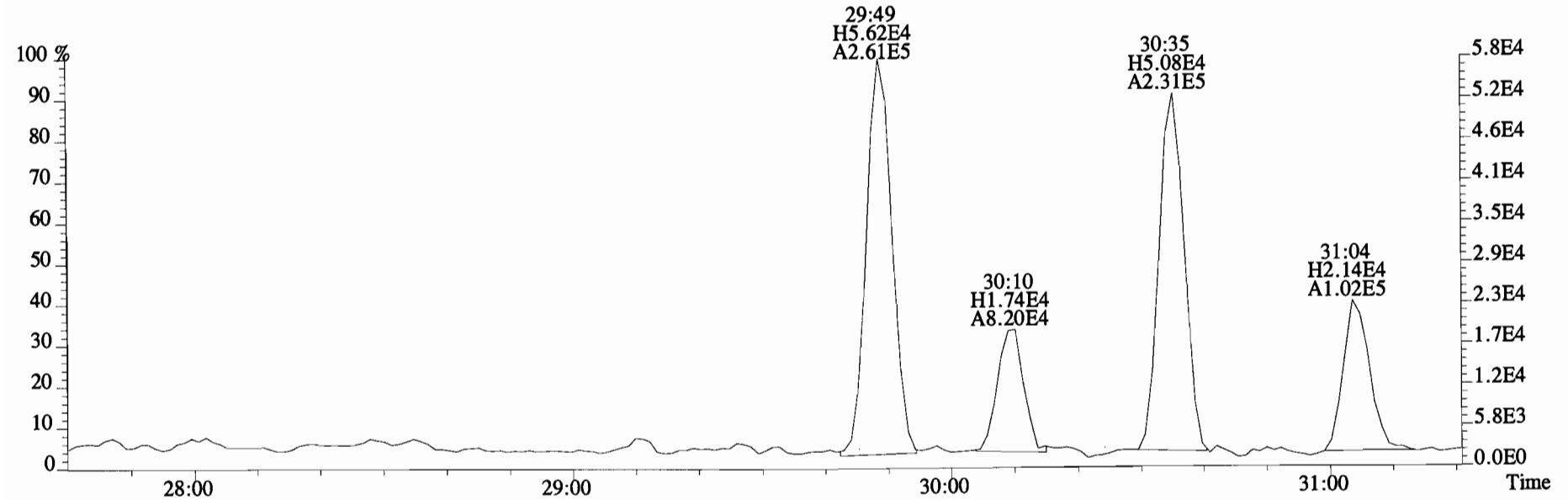
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 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2900.0,0.00%,F,F)



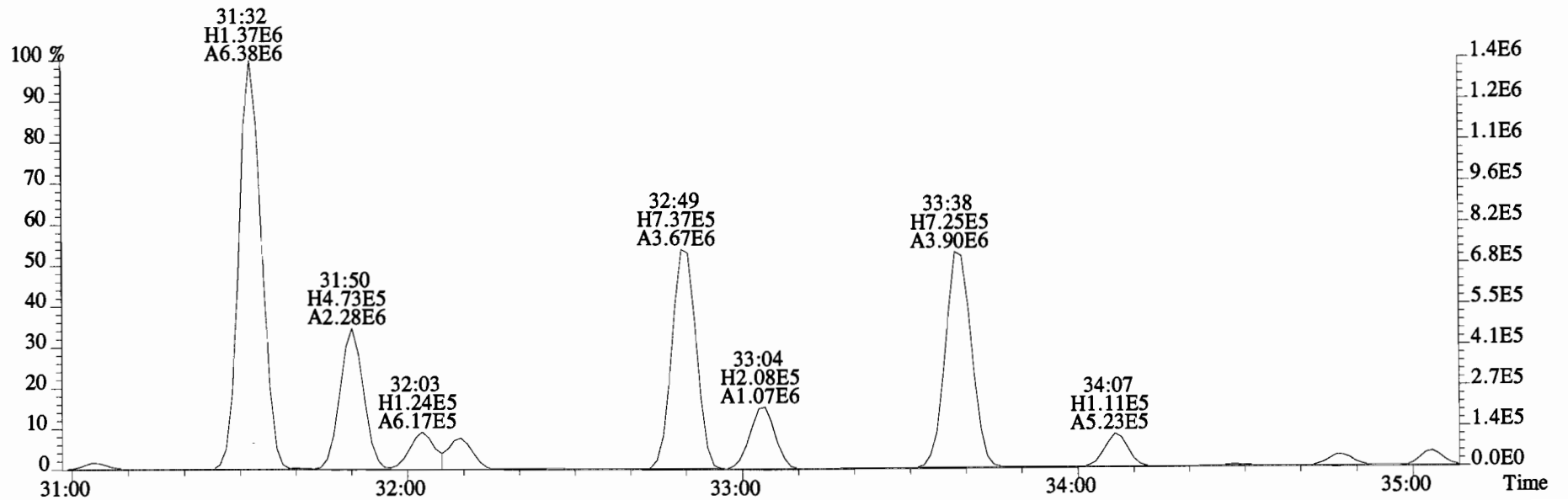
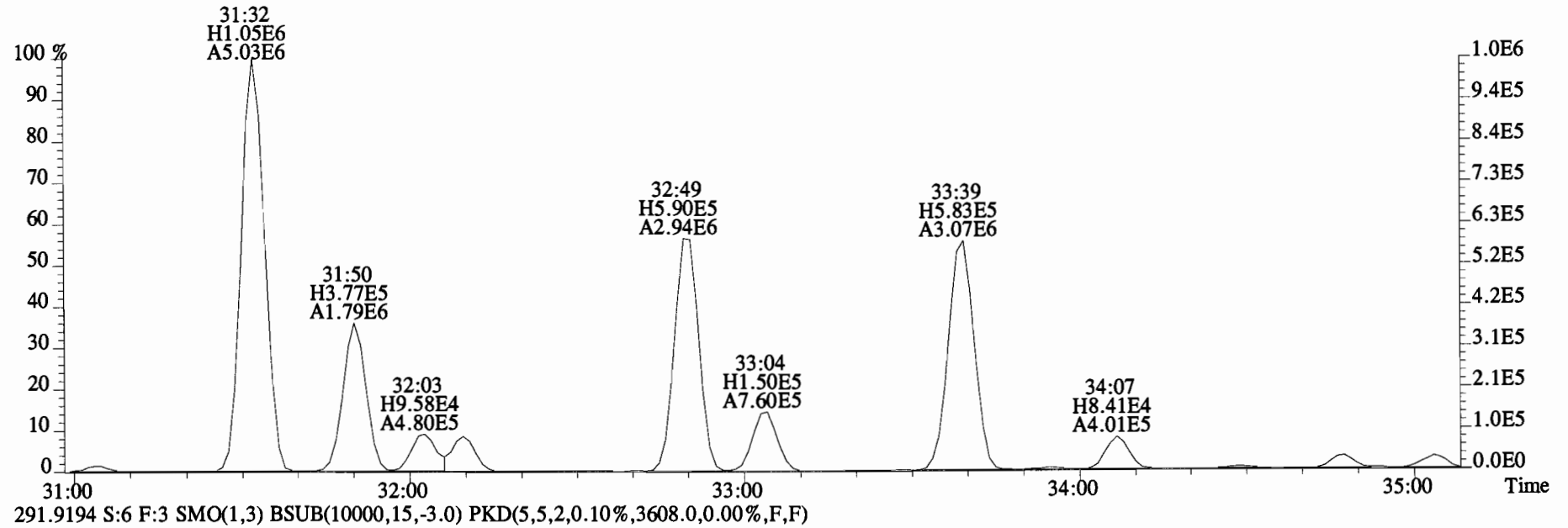
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2900.0,0.00%,F,F)



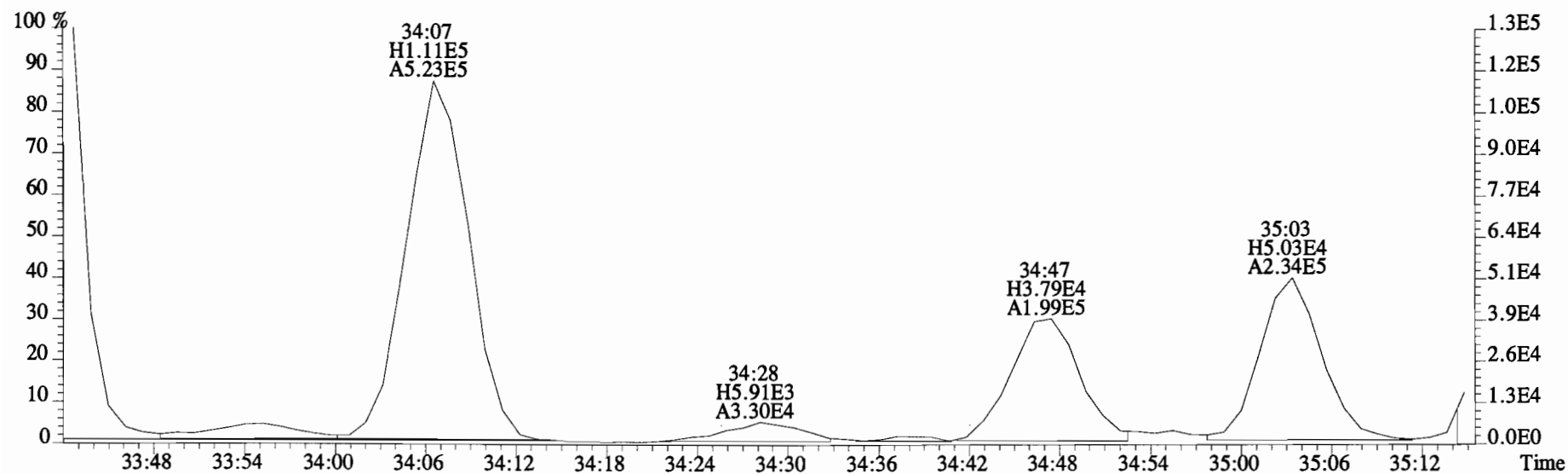
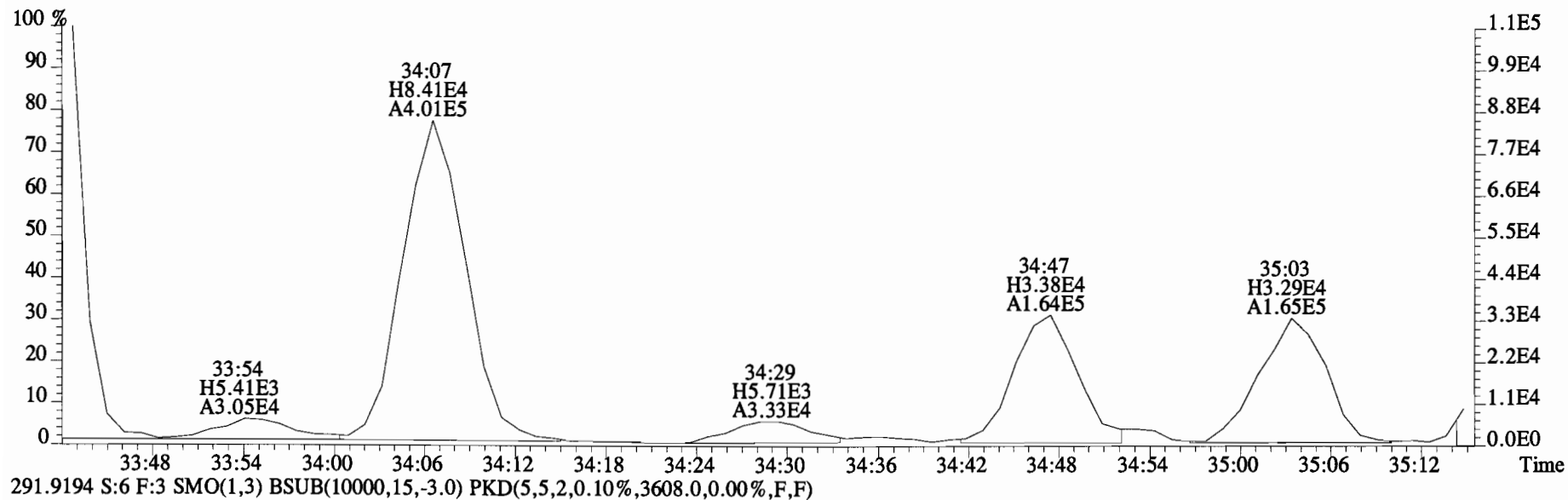
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3608.0,0.00%,F,F)



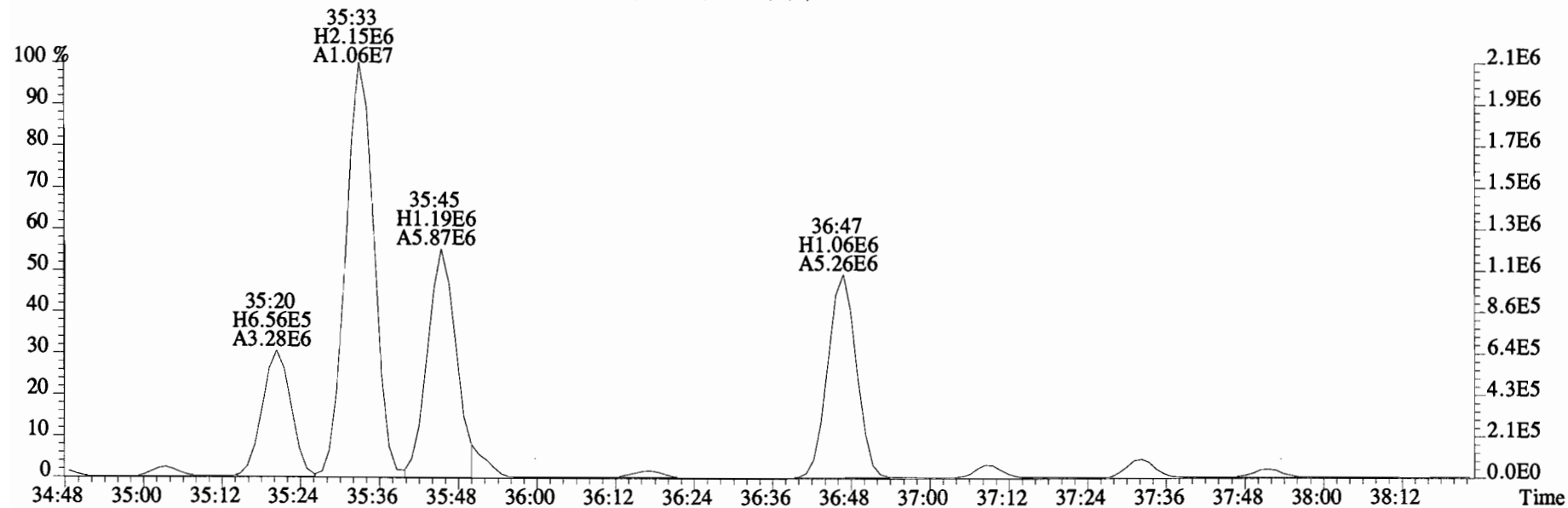
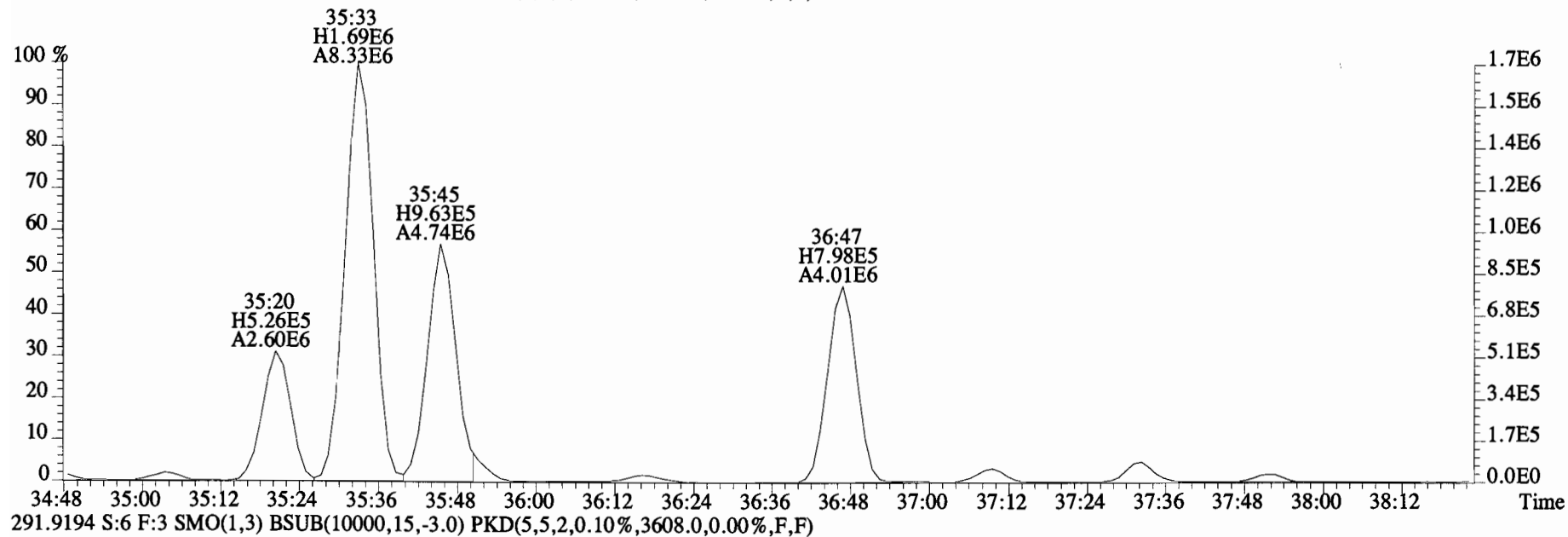
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 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
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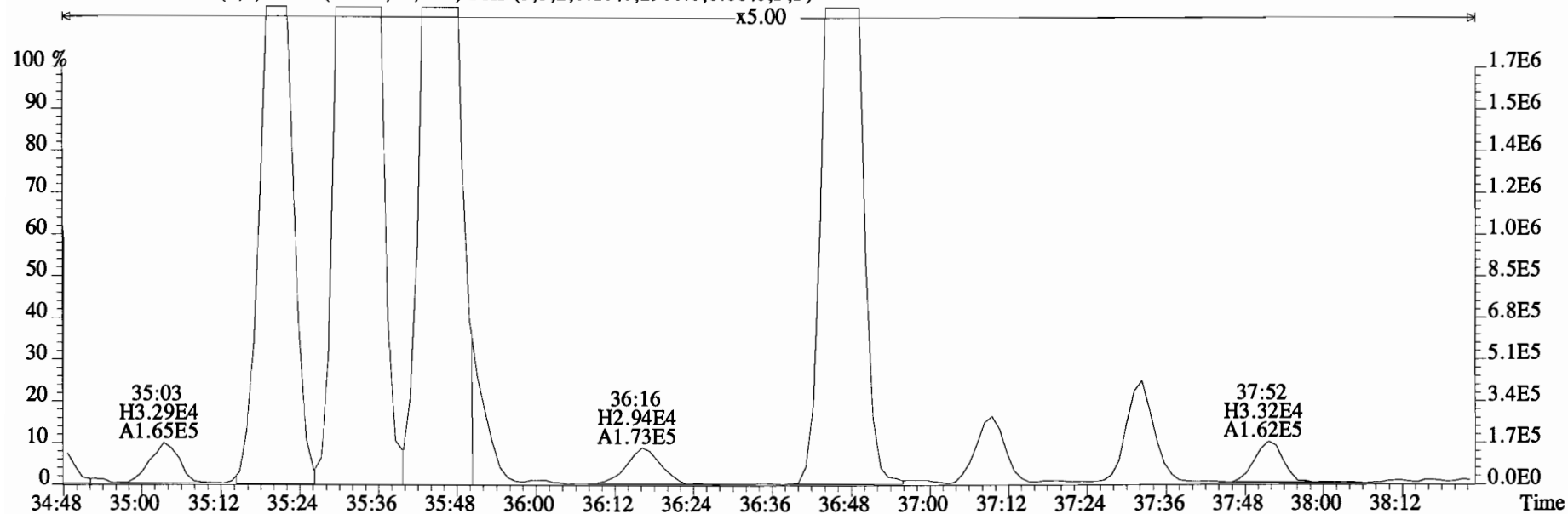
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 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2900.0,0.00%,F,F)



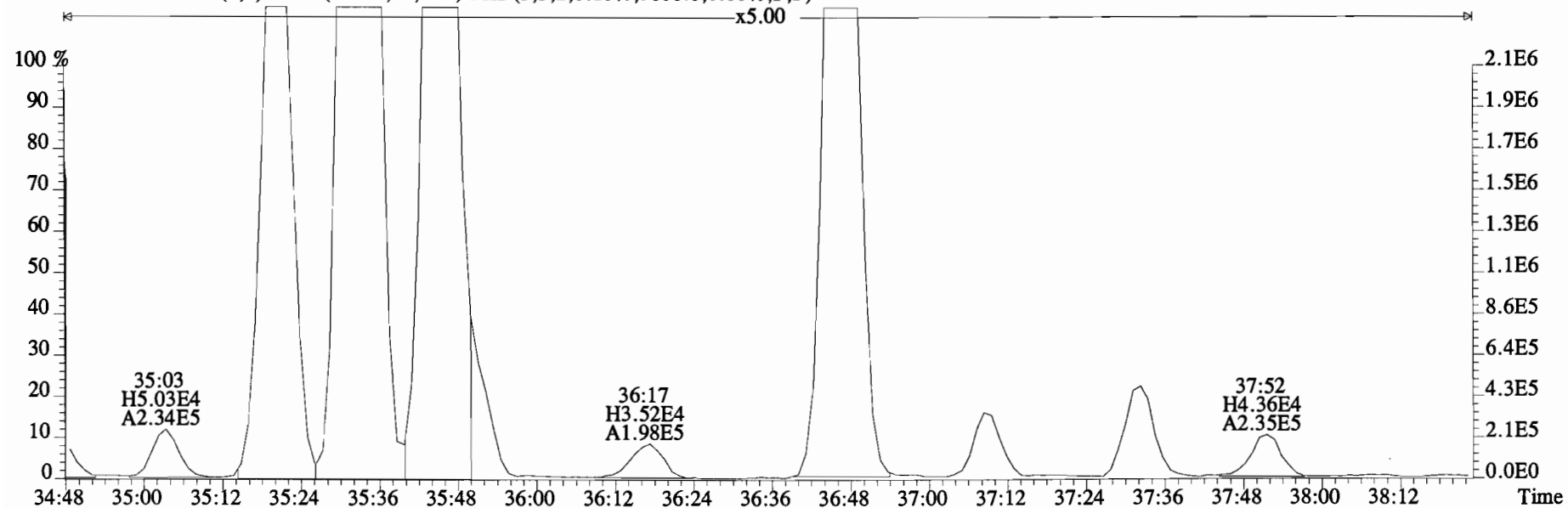
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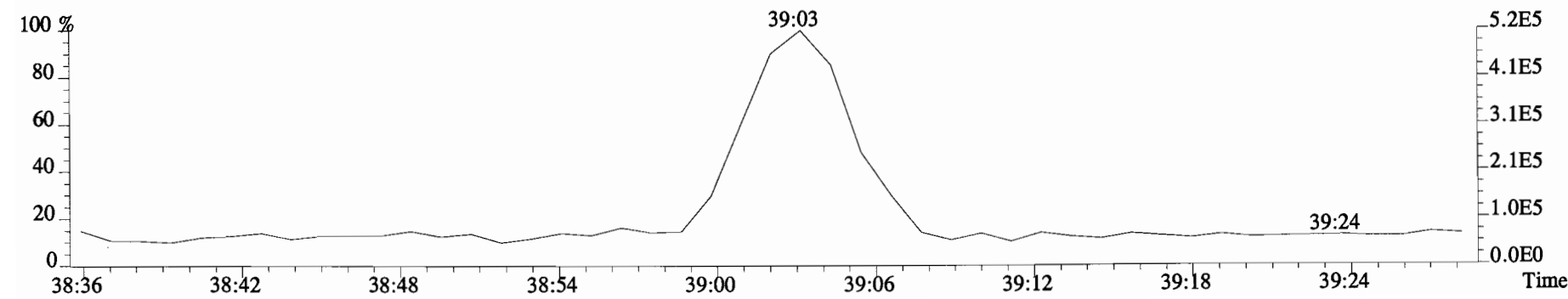
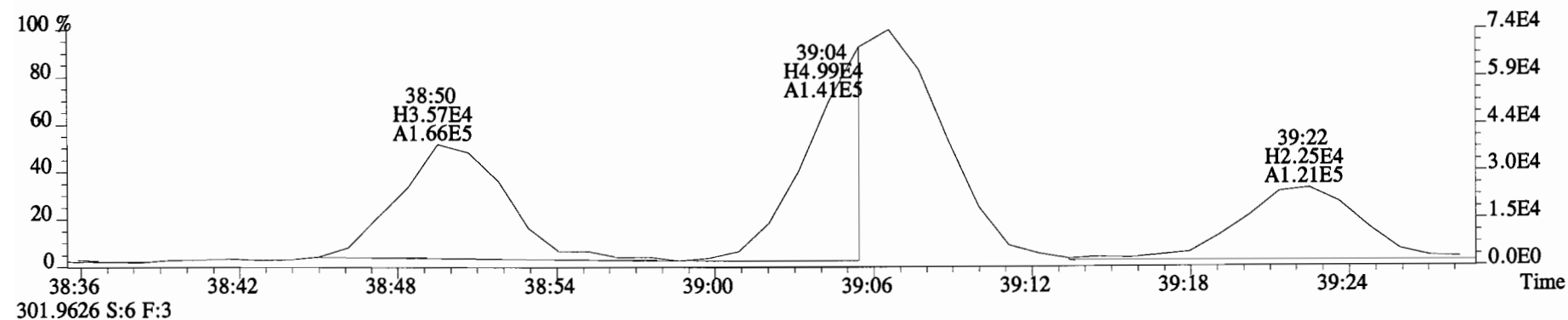
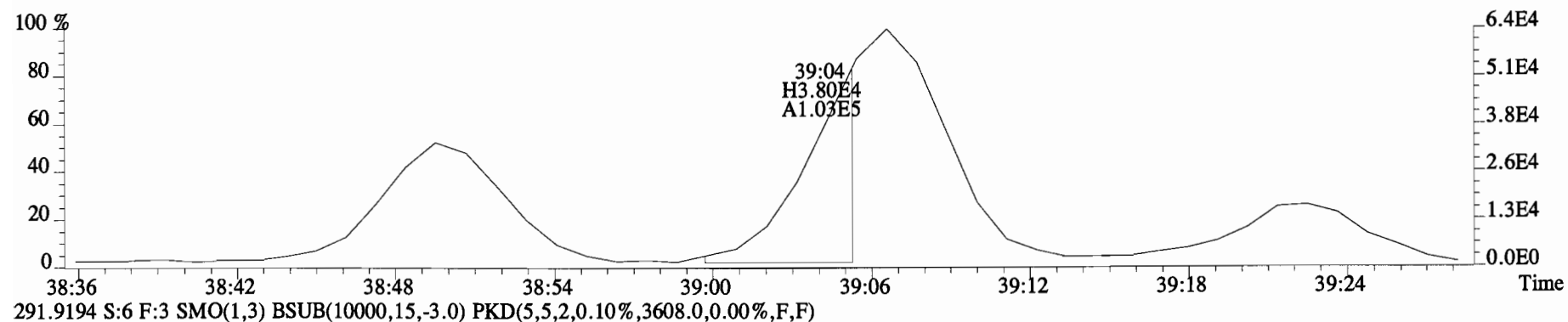
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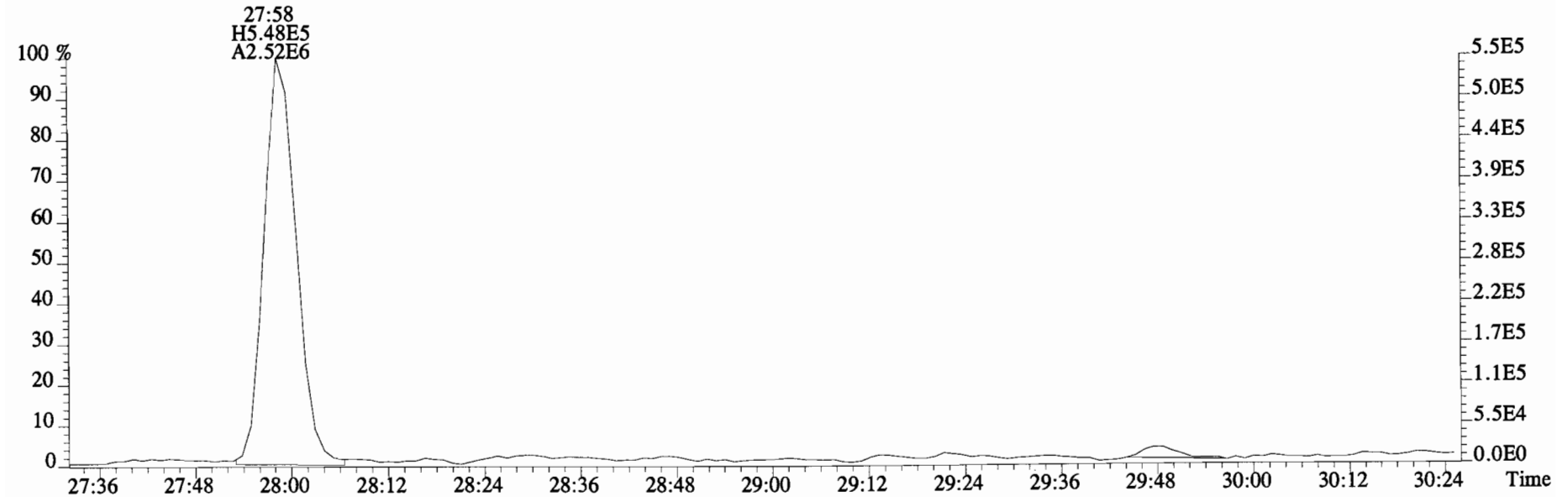
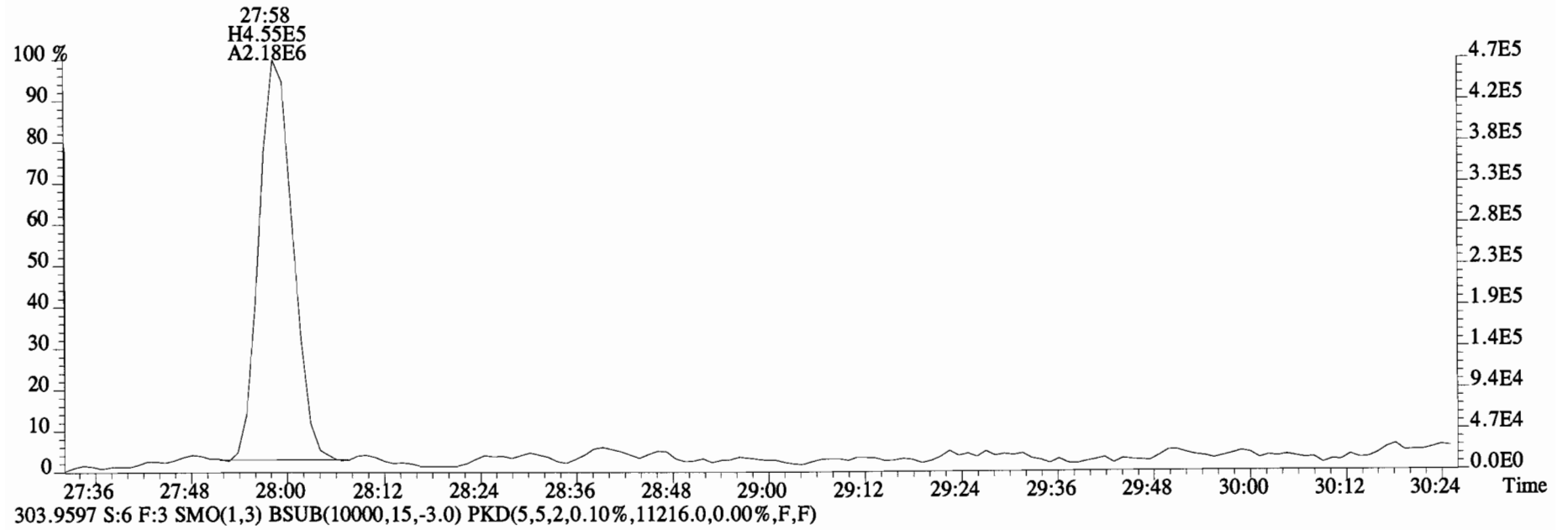
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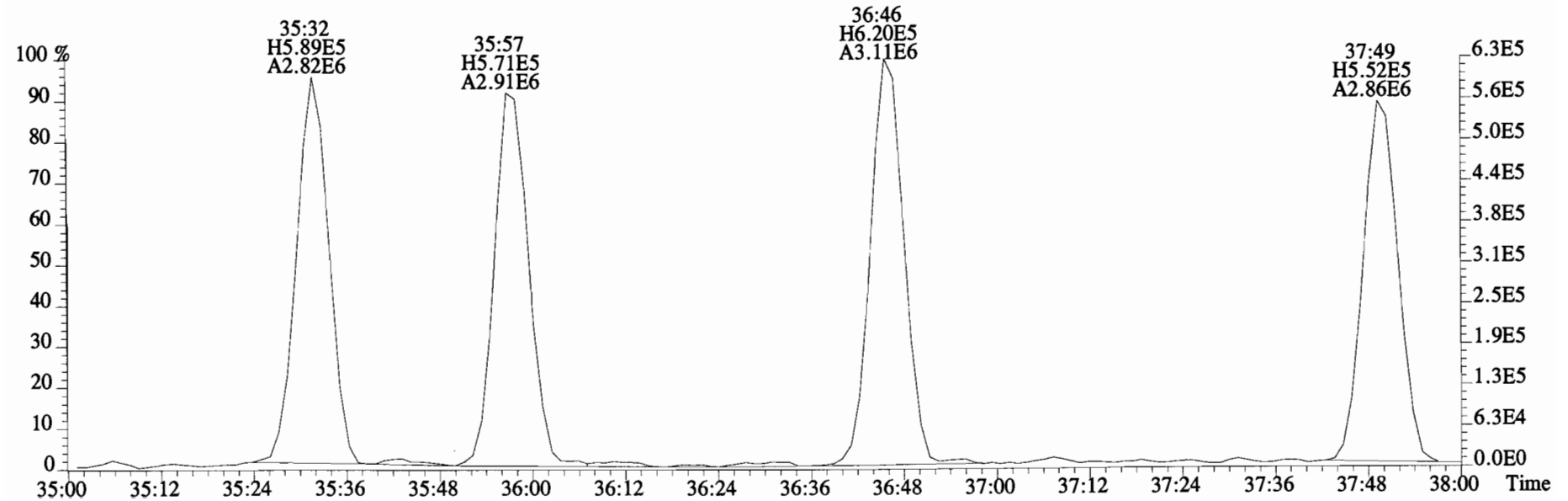
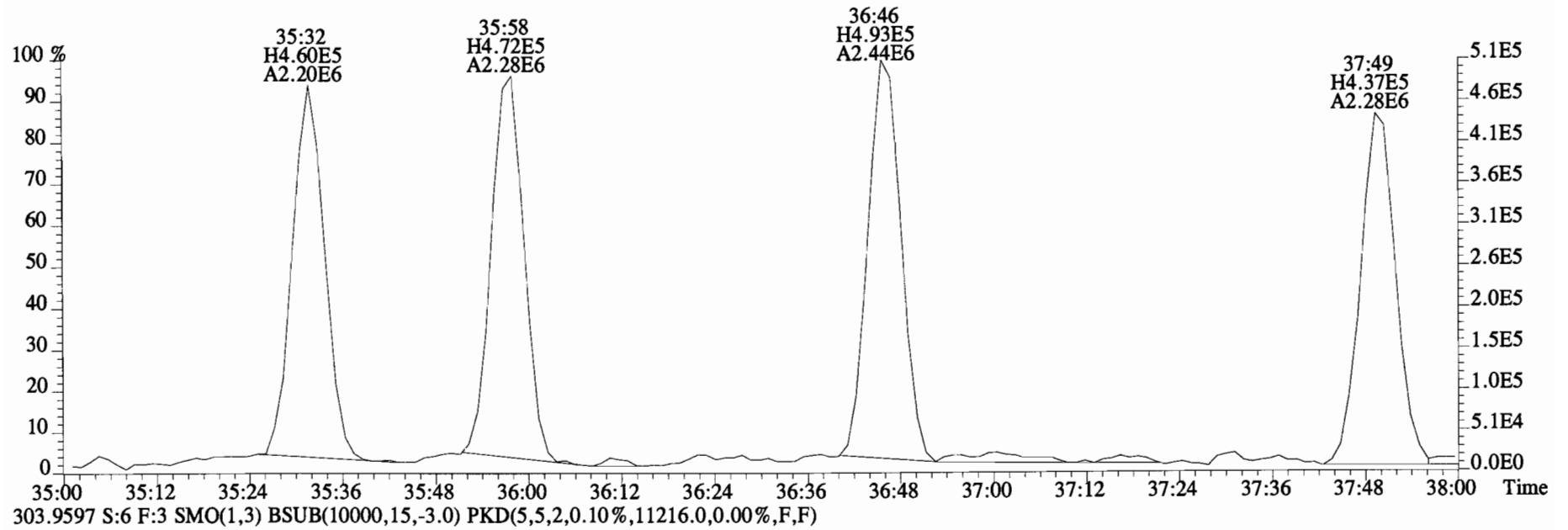
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
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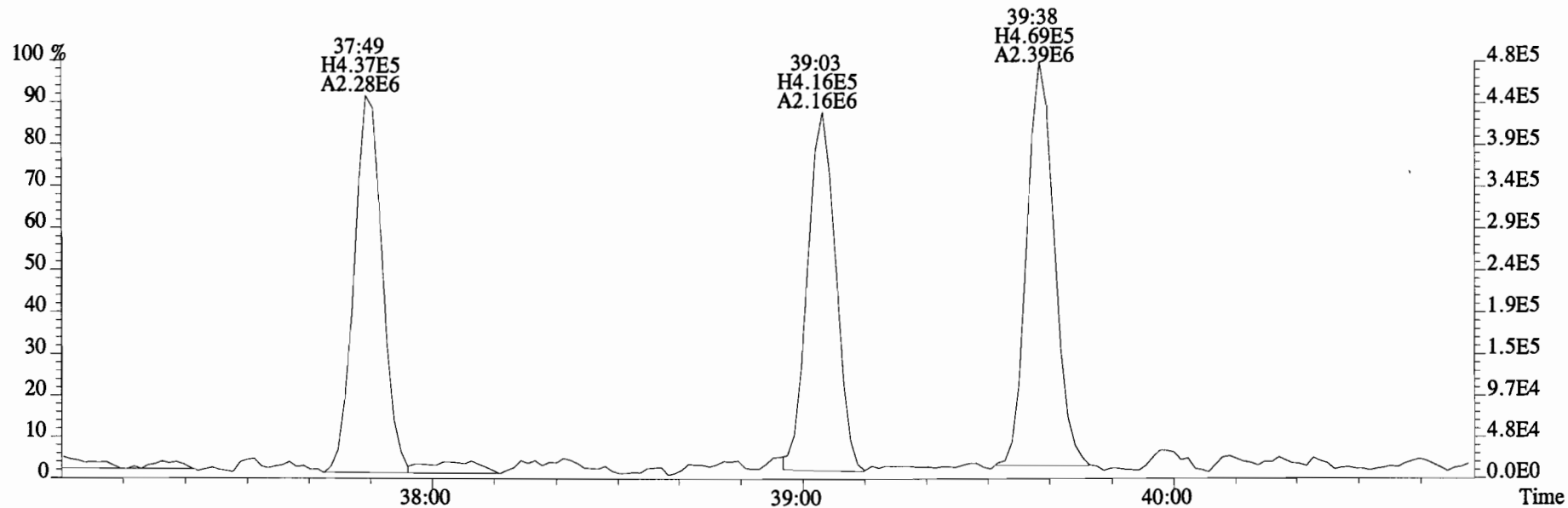
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,19756.0,0.00%,F,F)



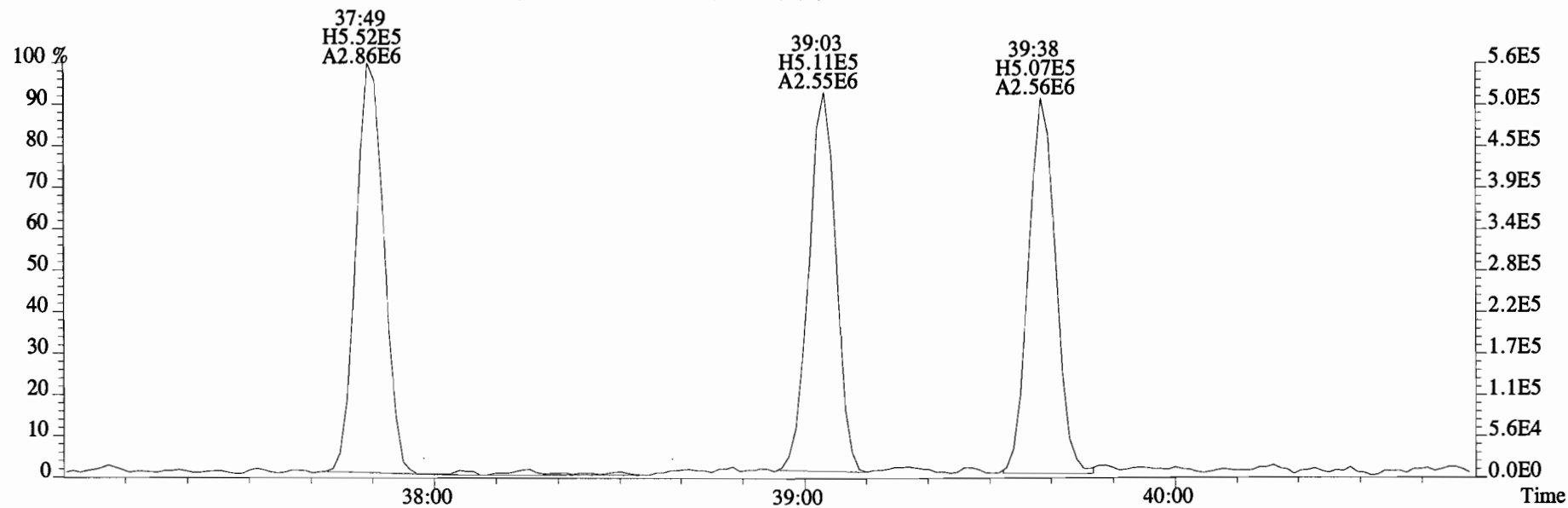
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,19756.0,0.00%,F,F)



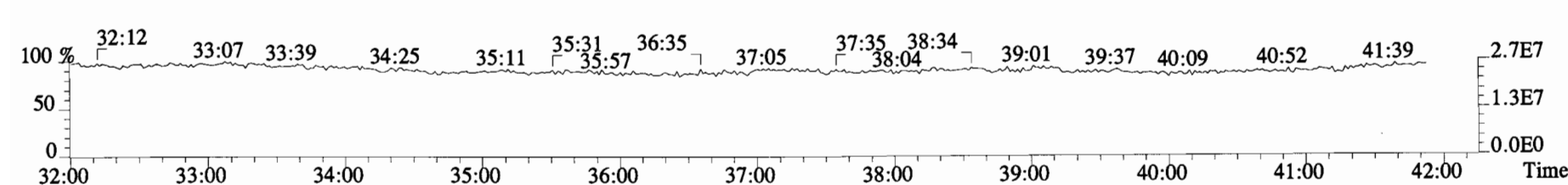
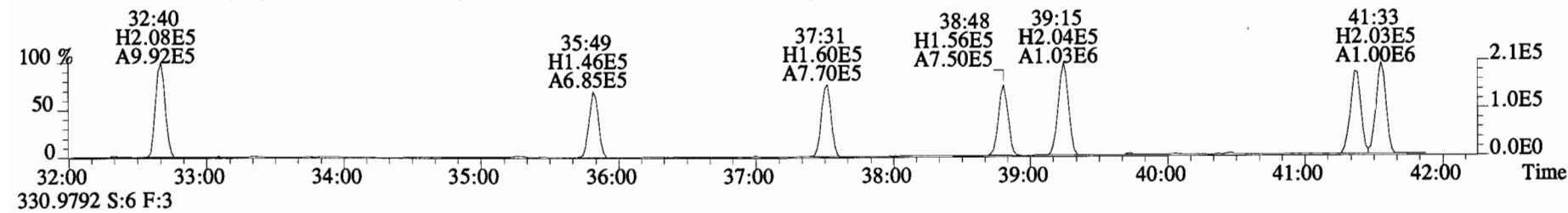
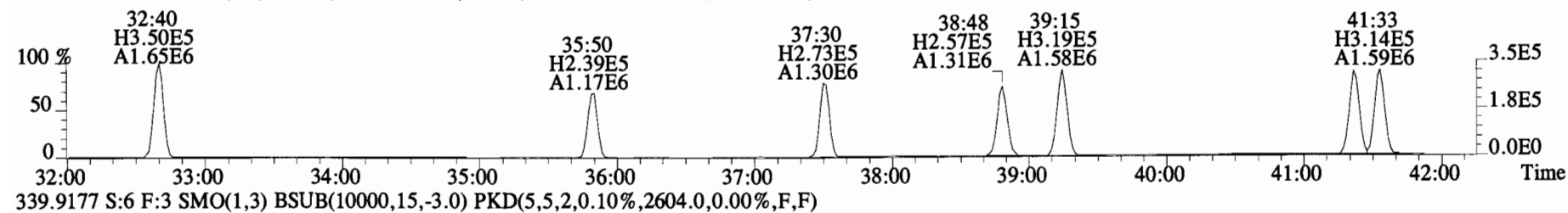
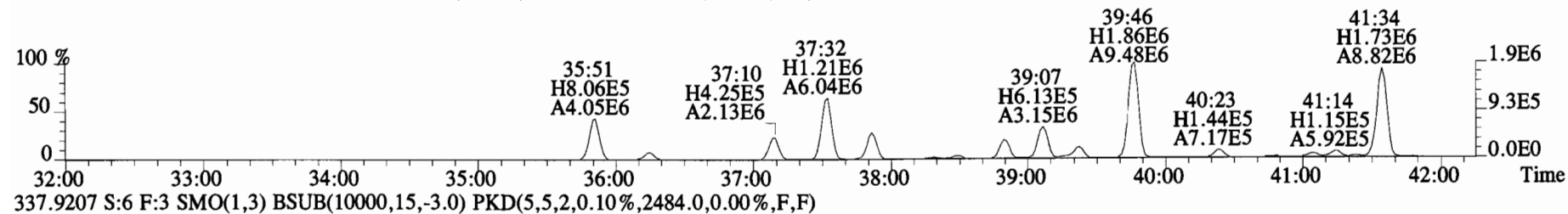
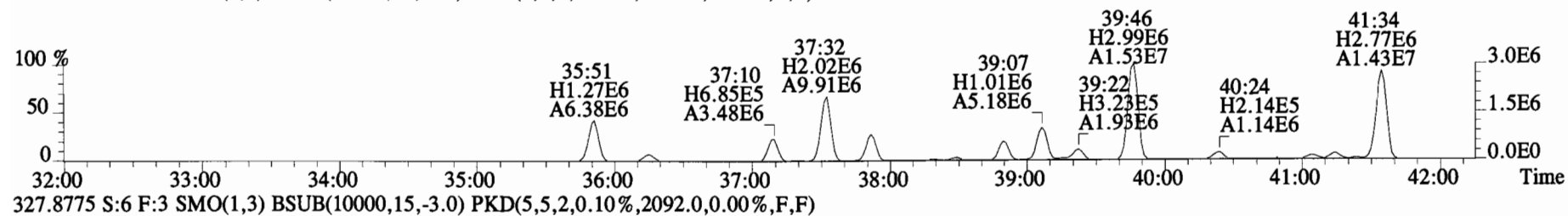
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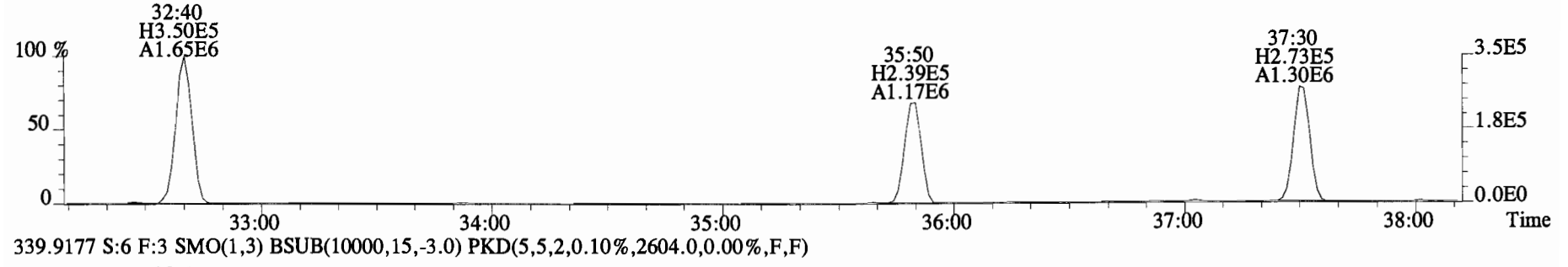
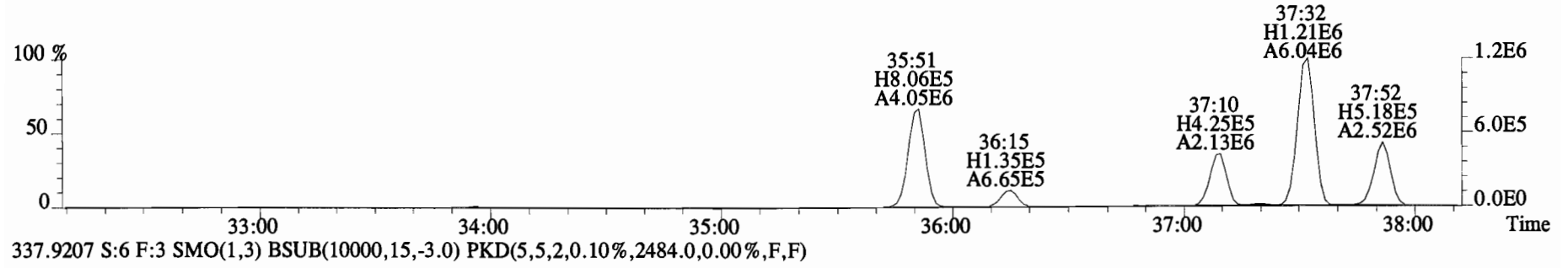
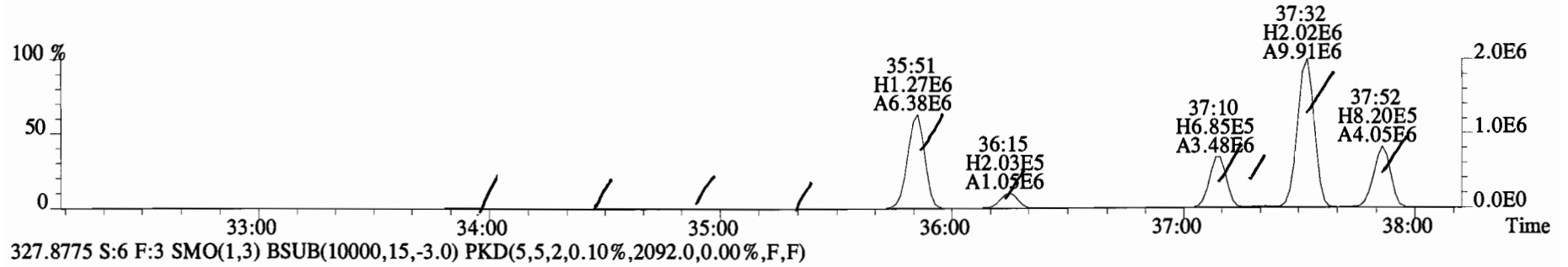
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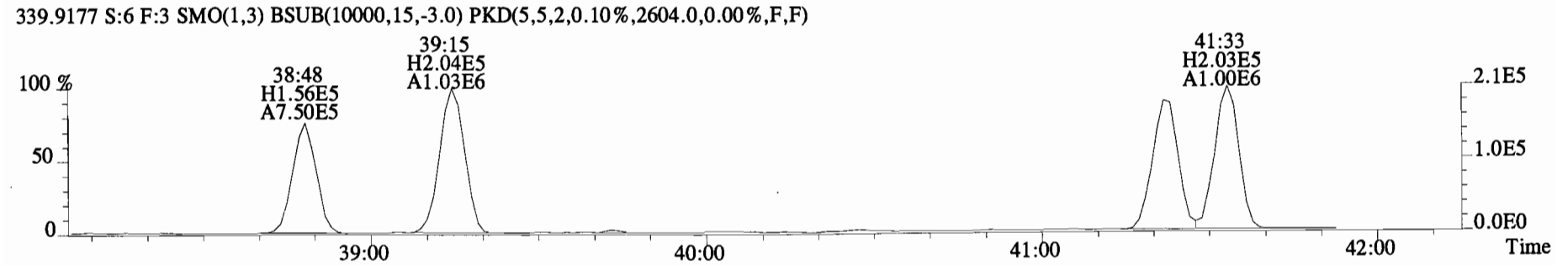
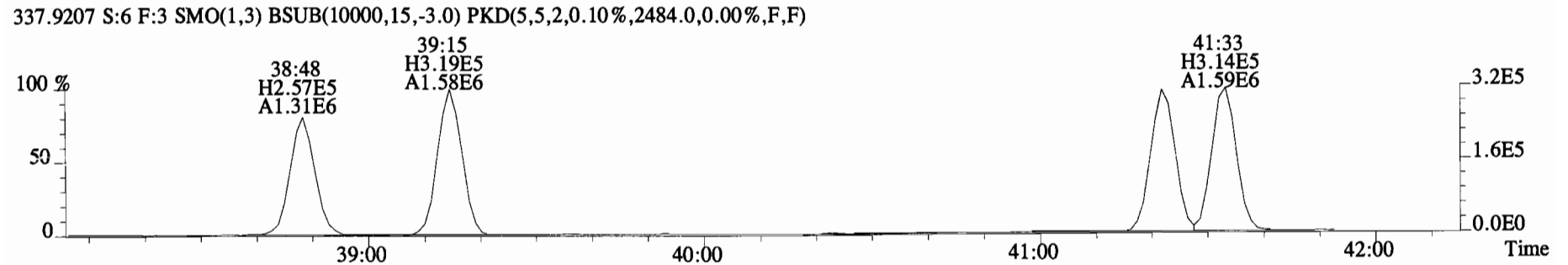
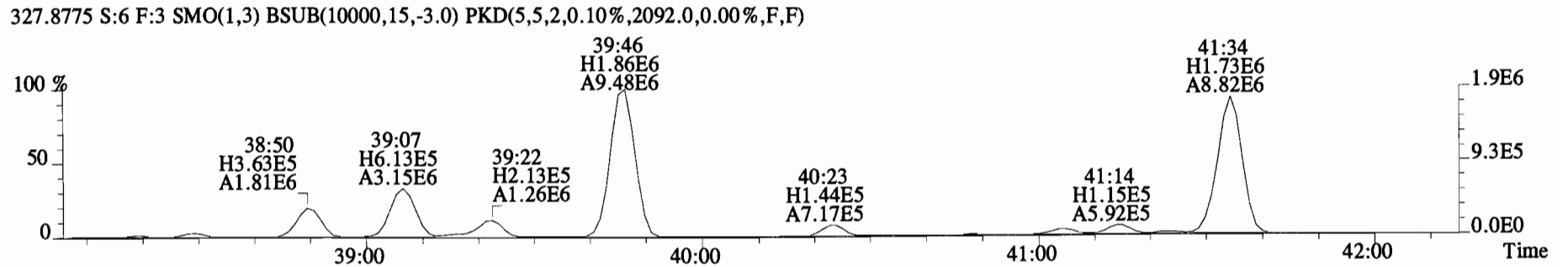
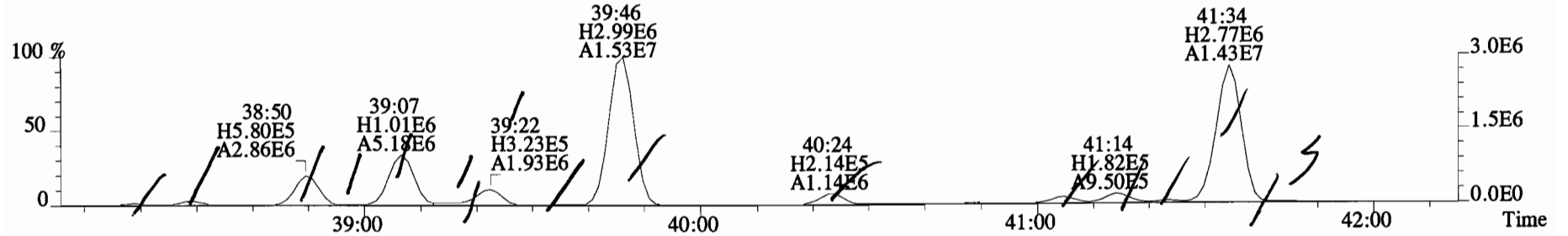
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



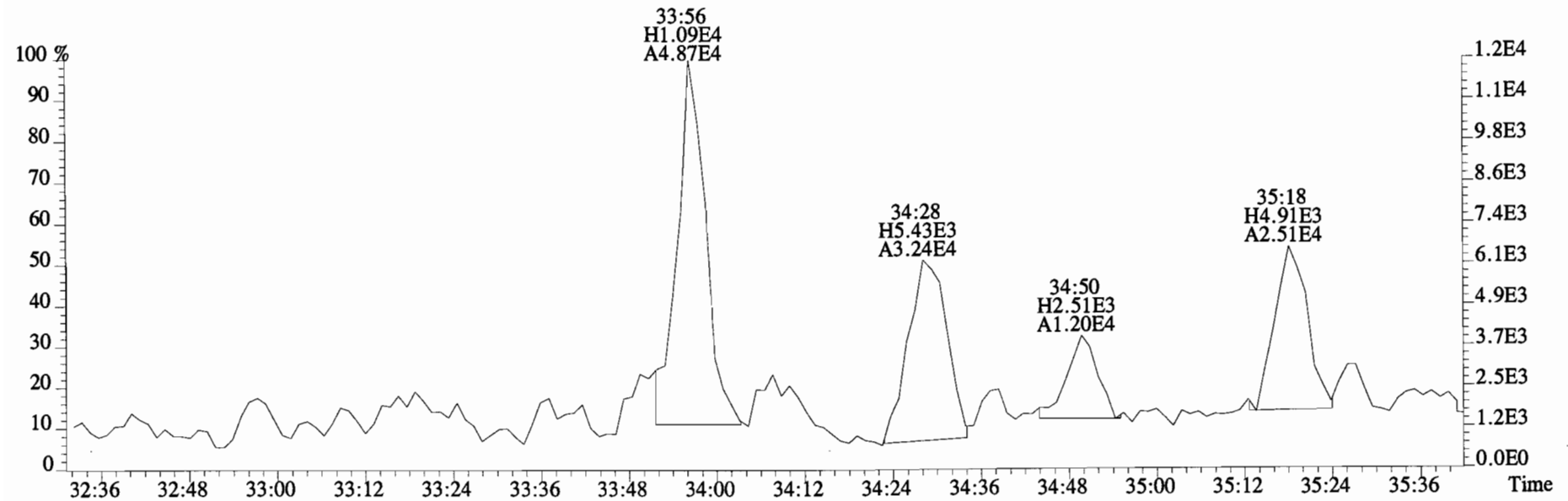
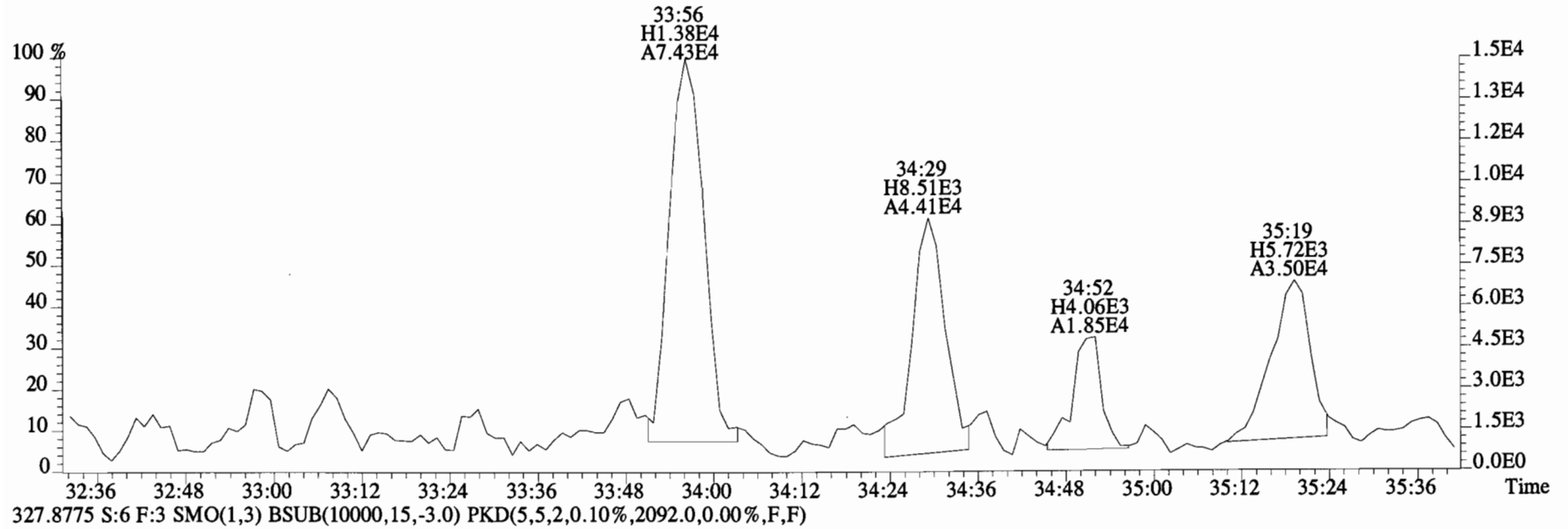
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
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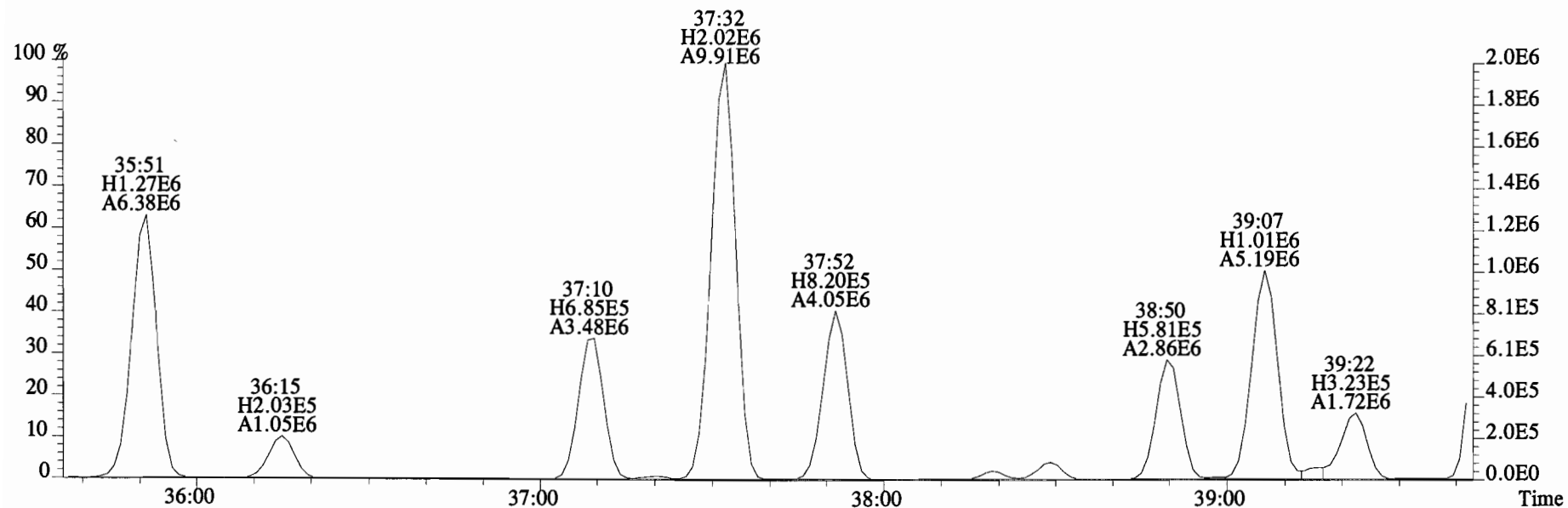
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



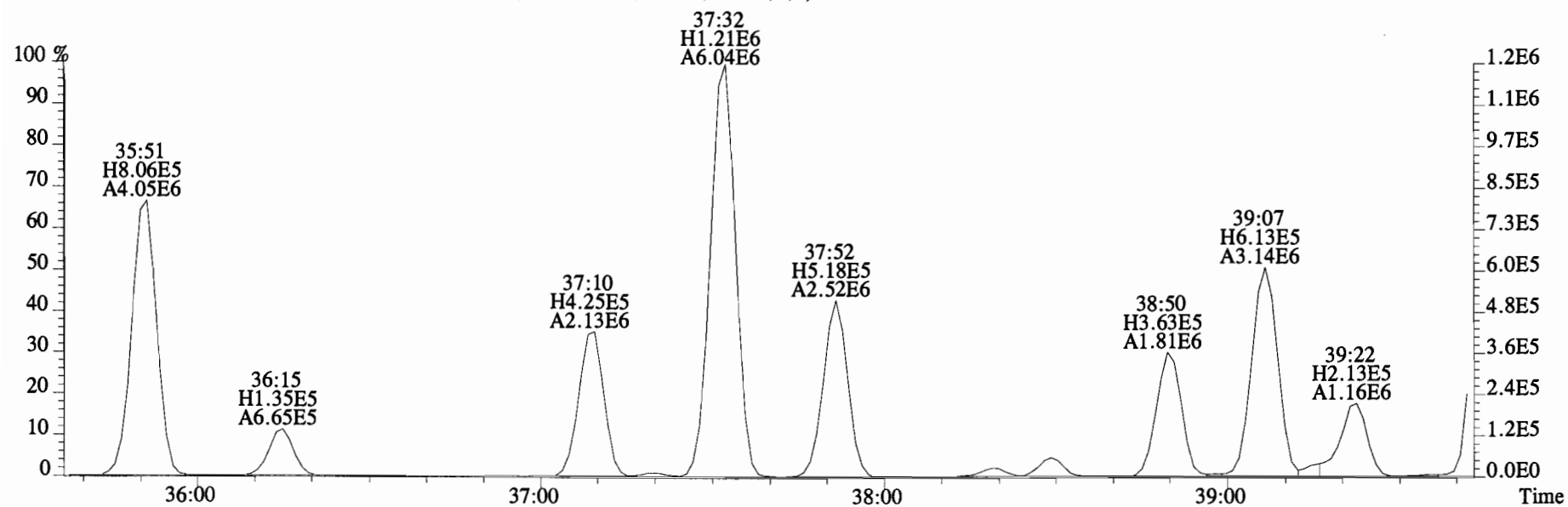
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



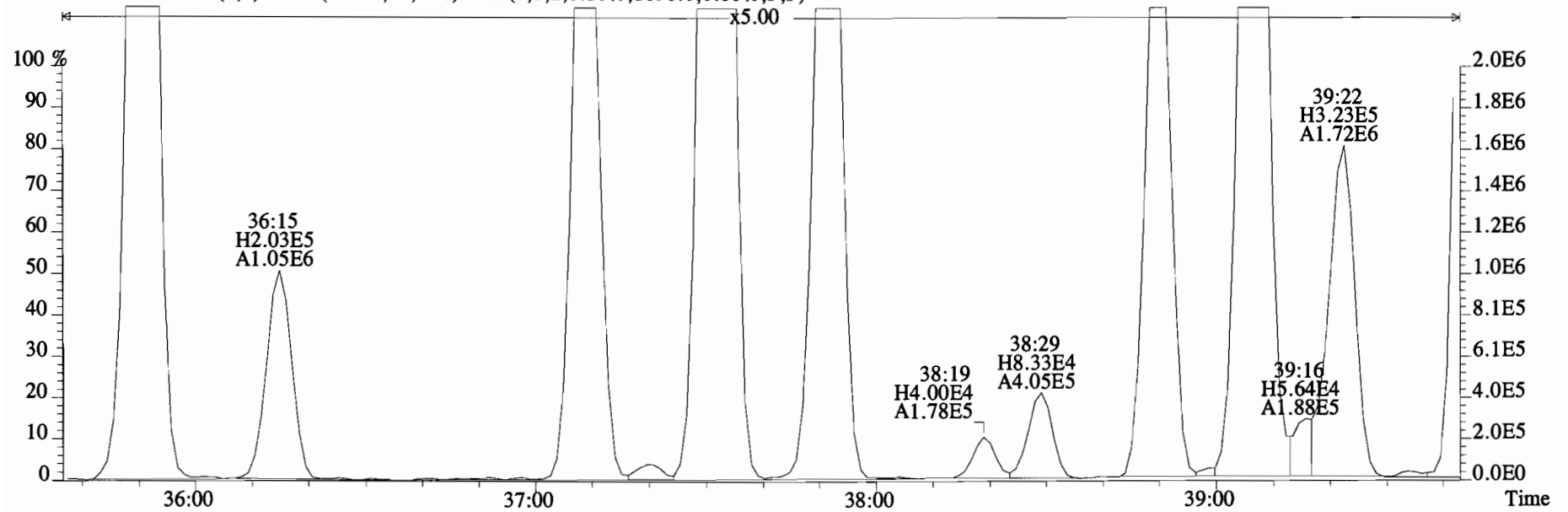
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



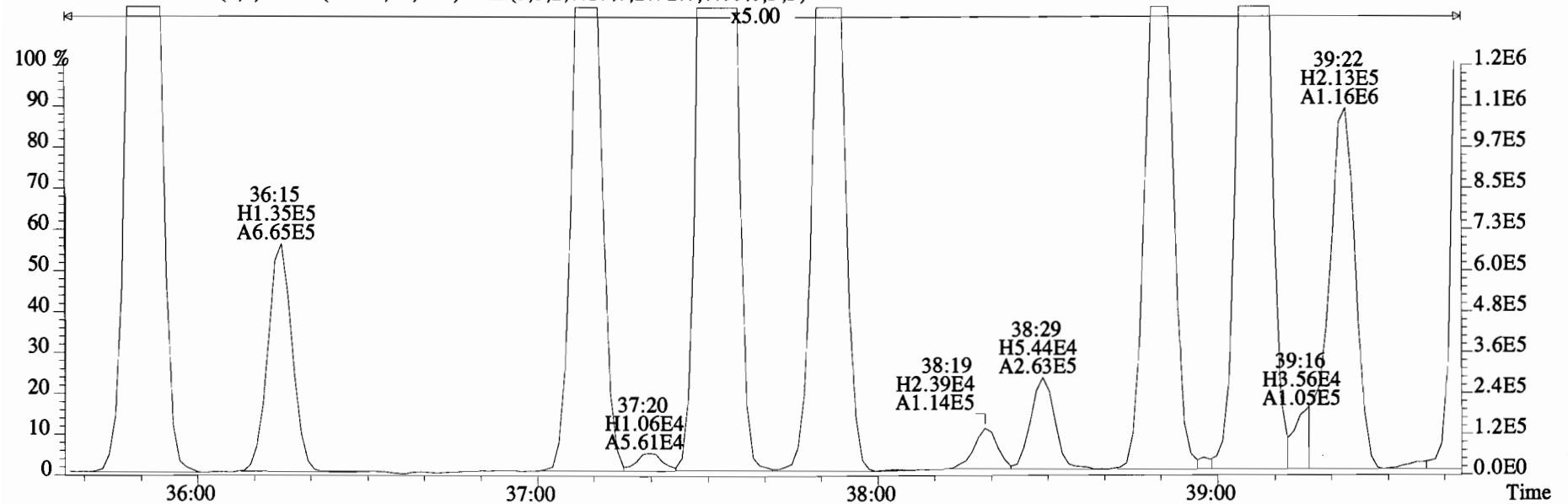
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2092.0,0.00%,F,F)



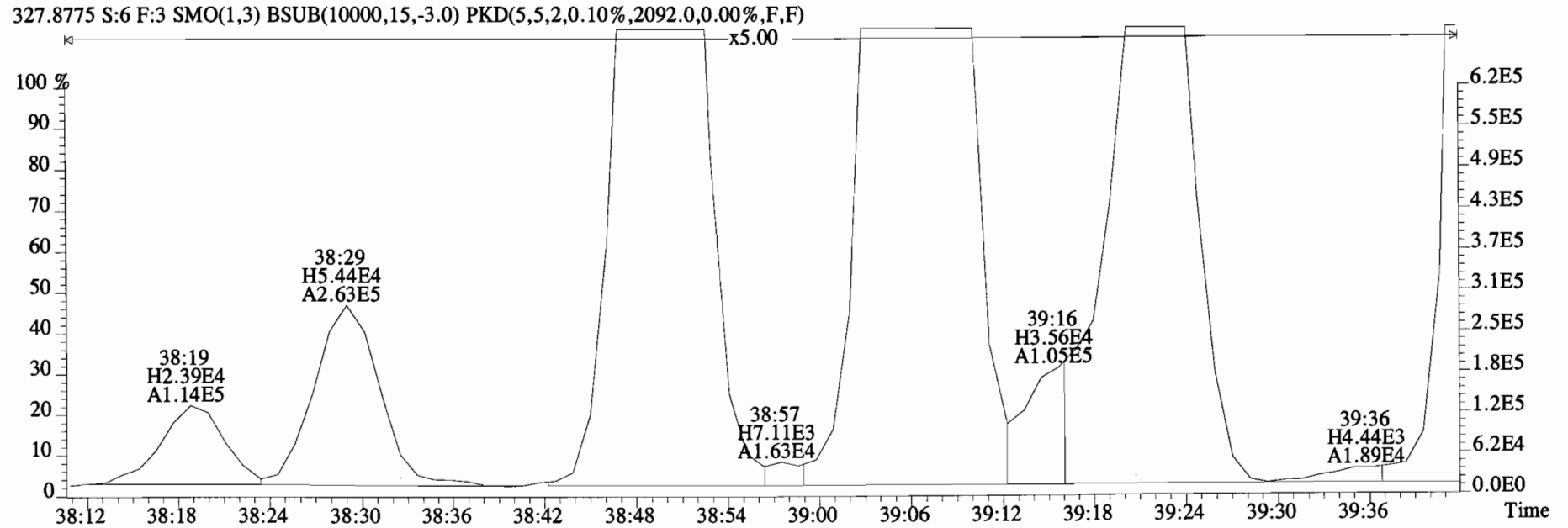
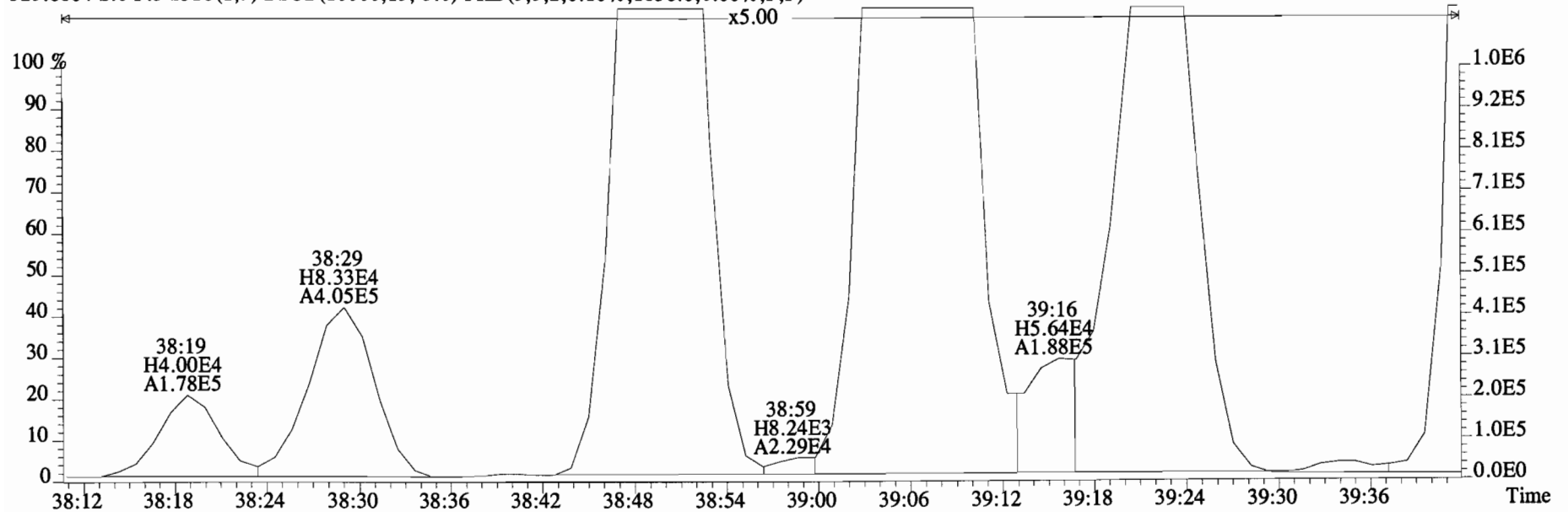
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



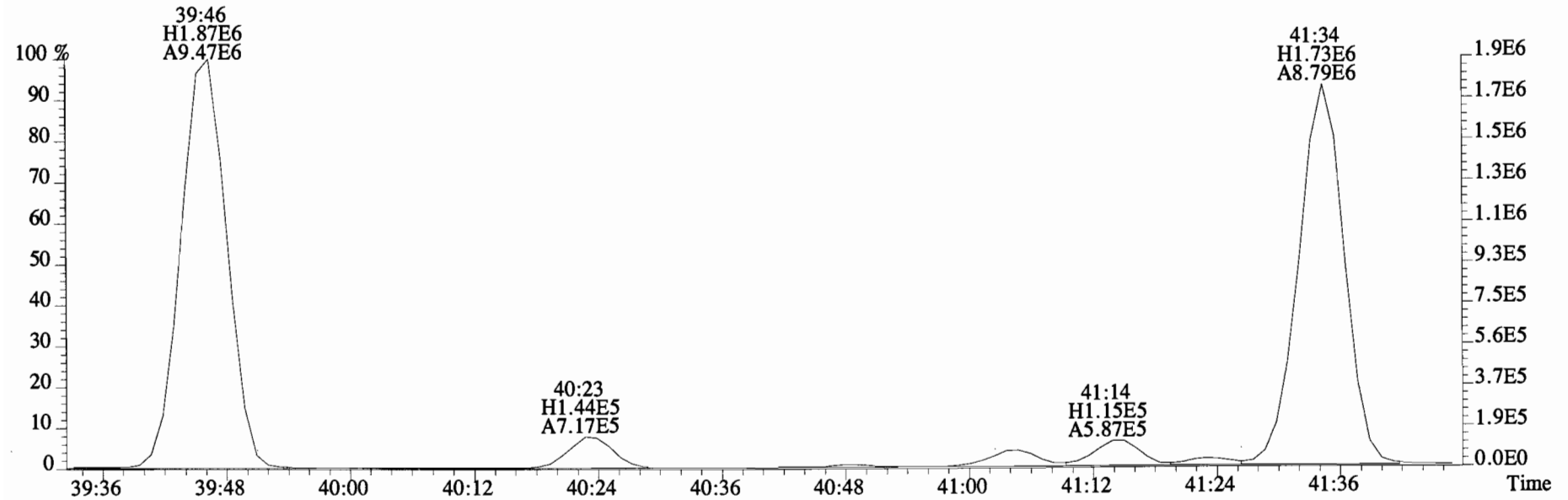
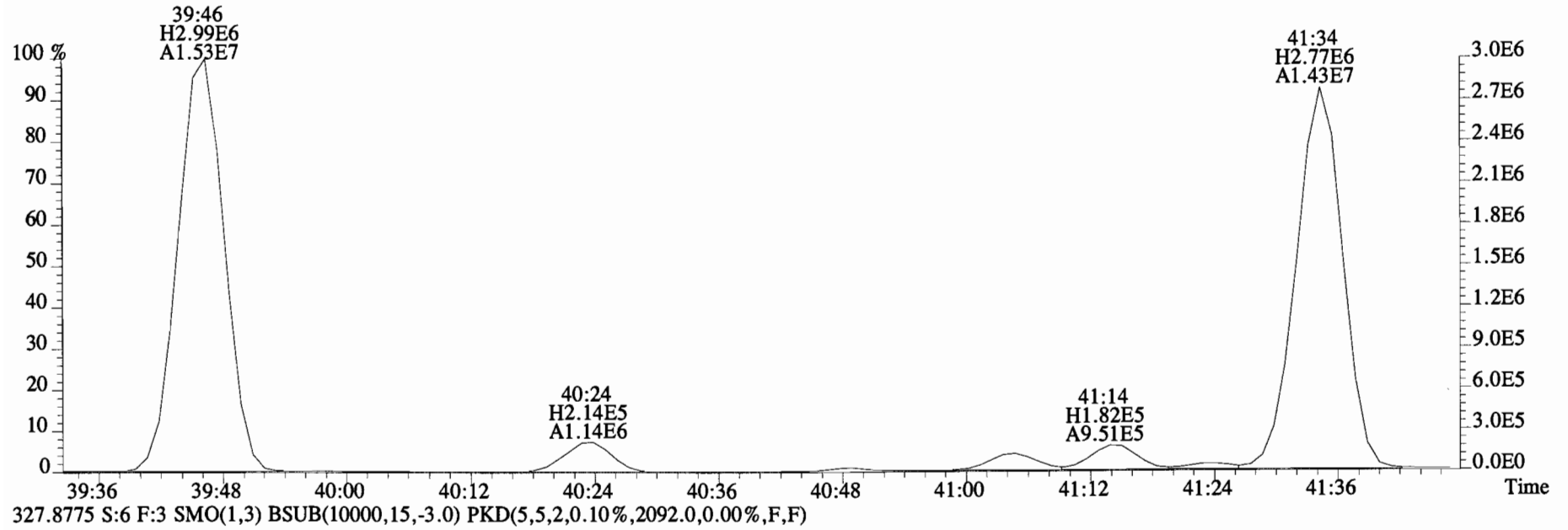
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2092.0,0.00%,F,F)



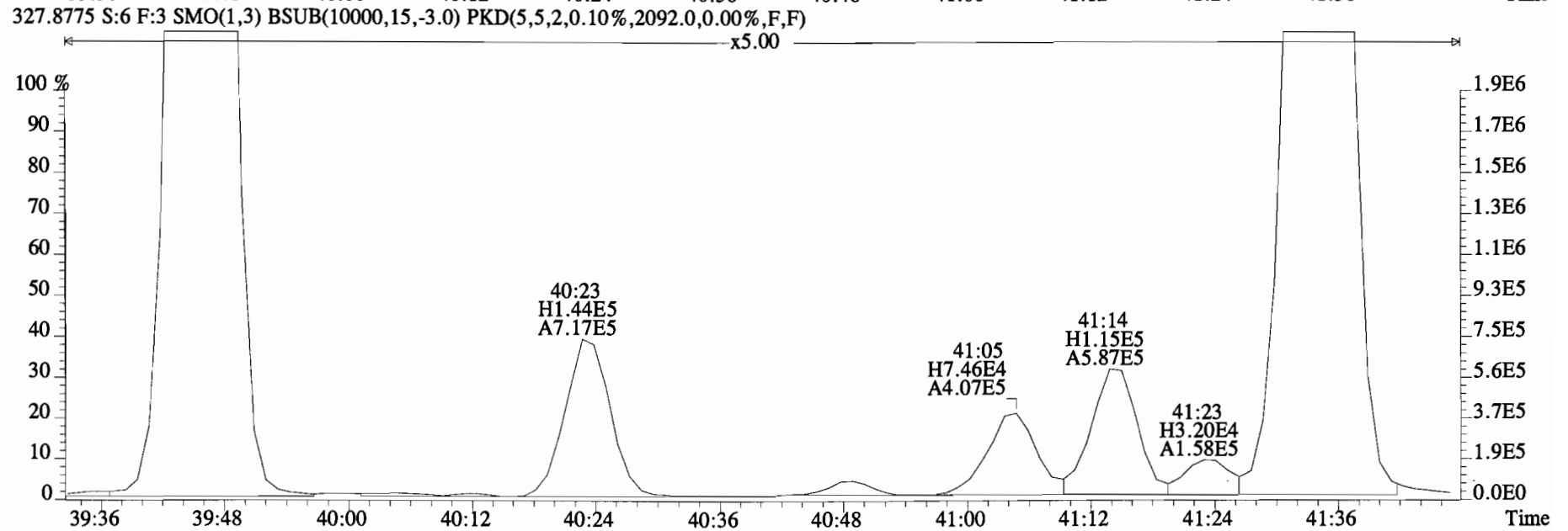
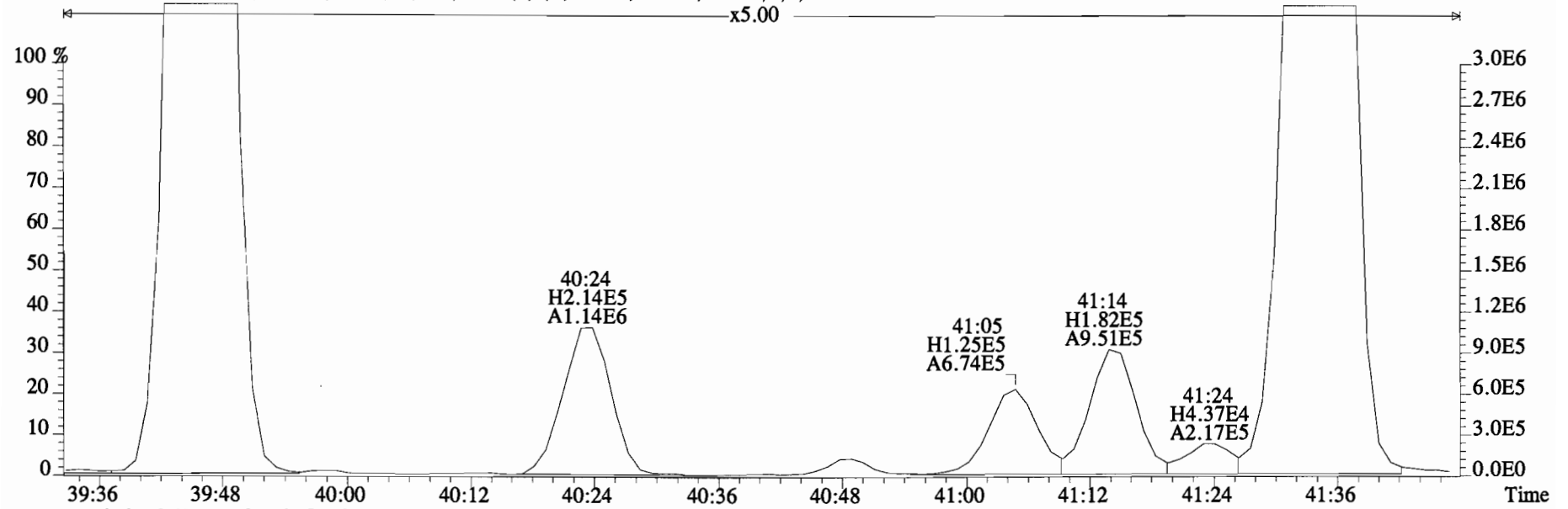
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



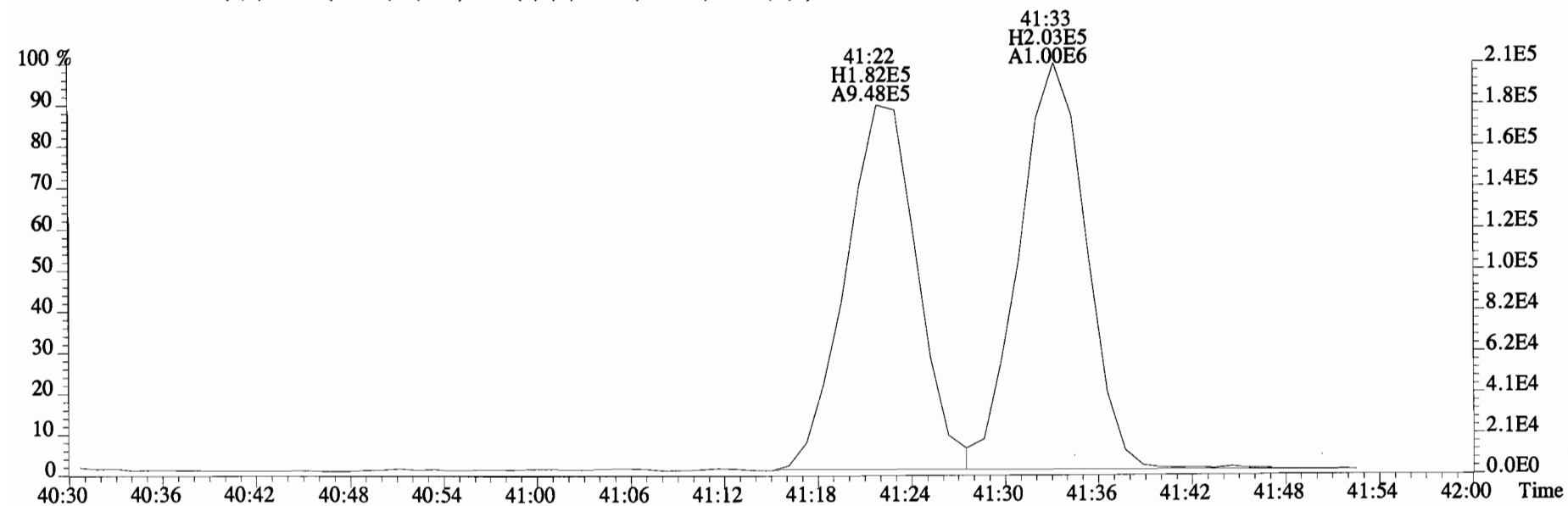
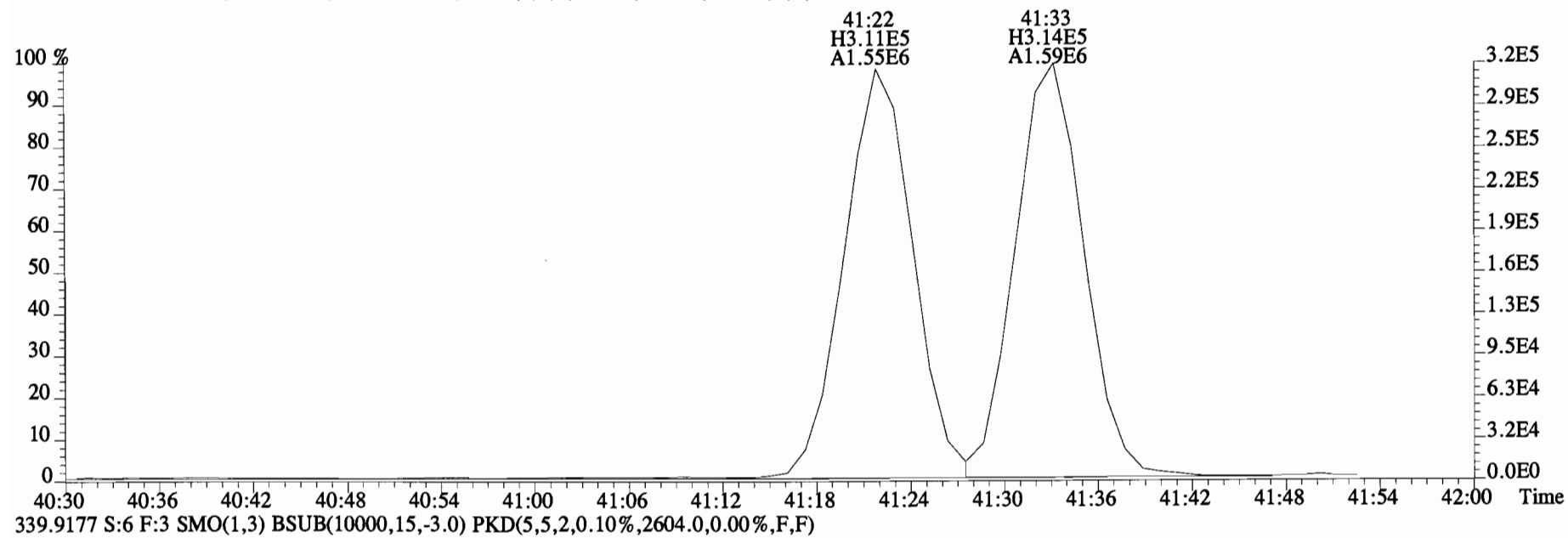
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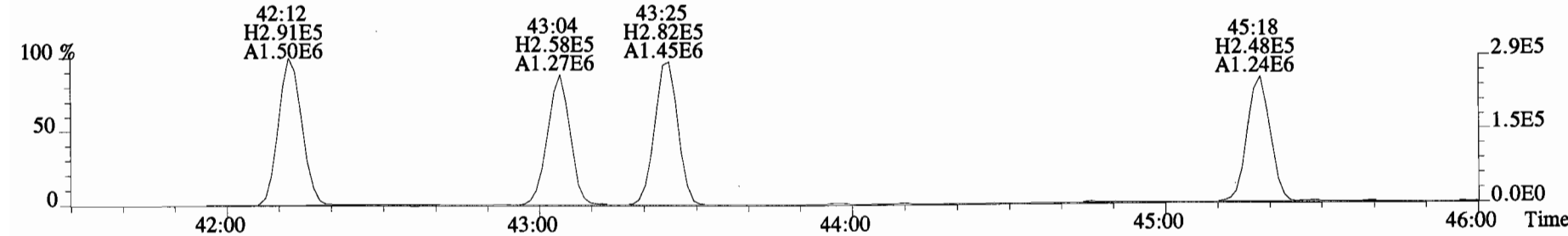
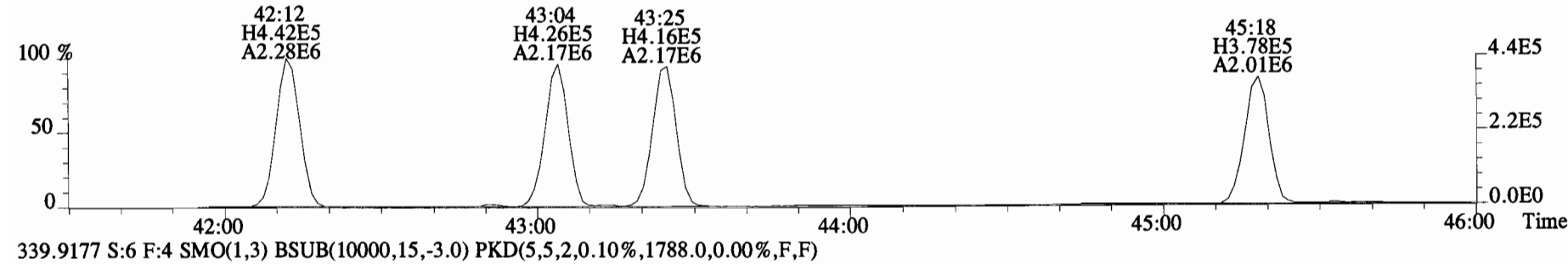
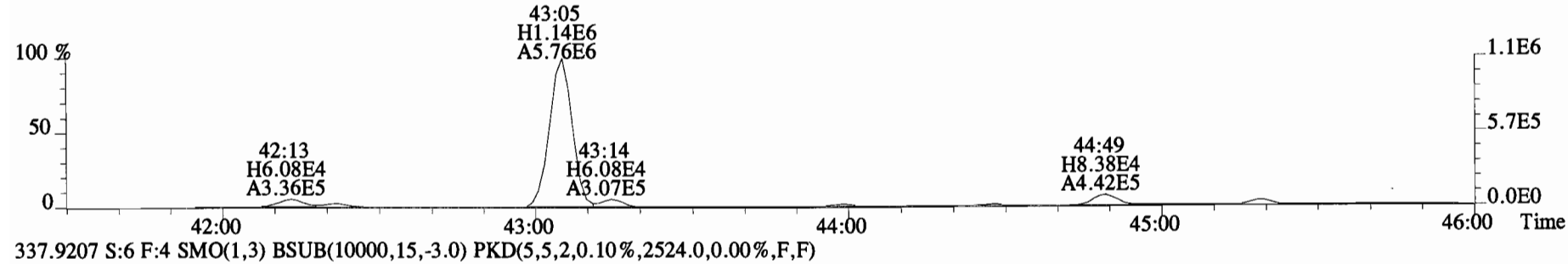
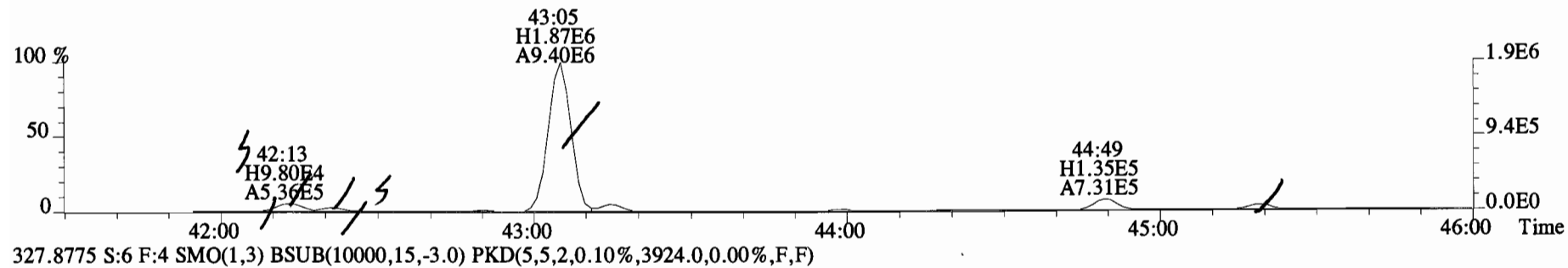
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 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



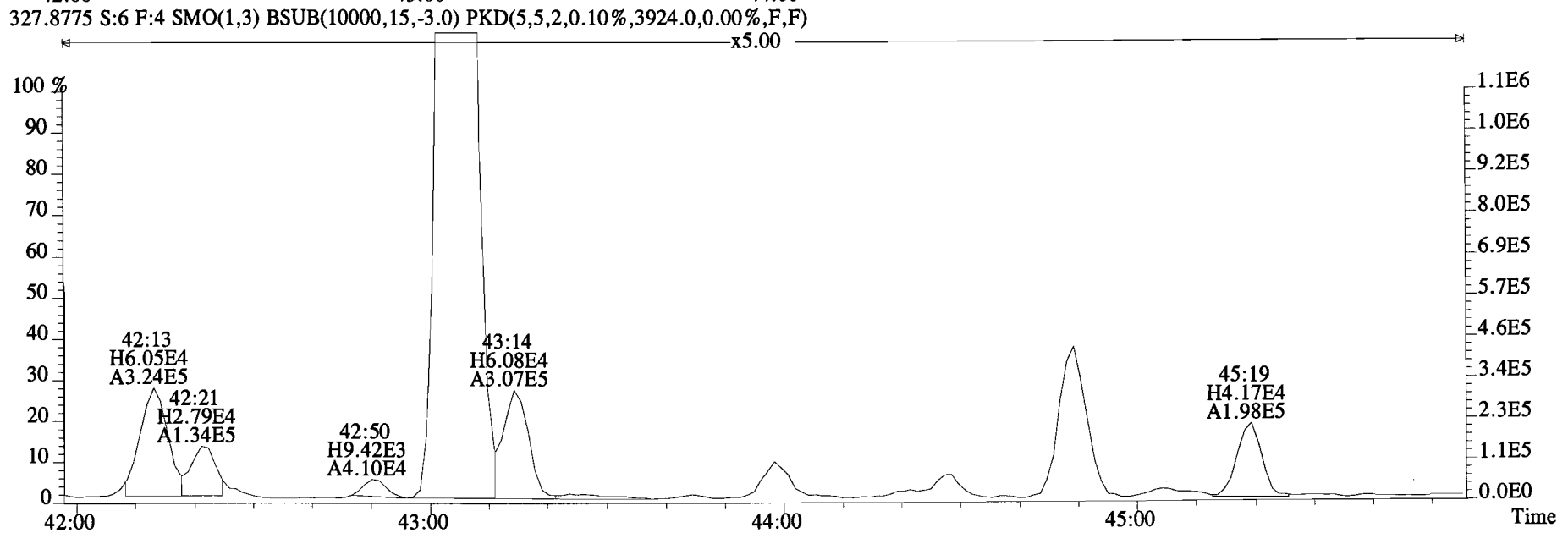
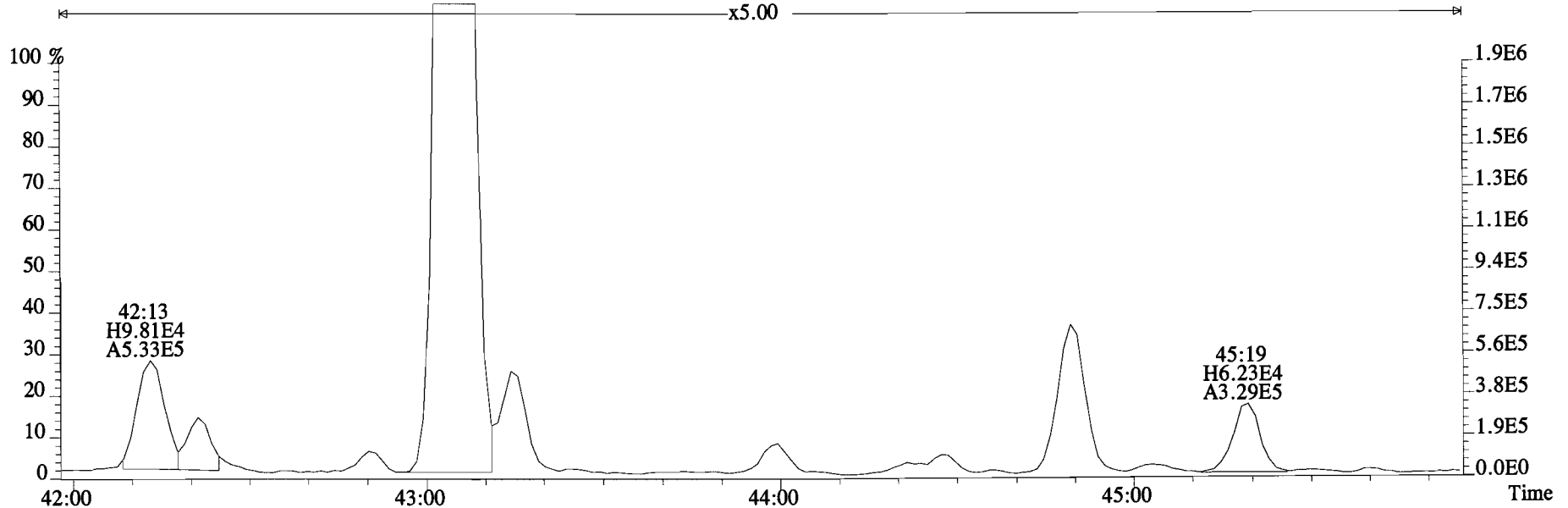
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
337.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2484.0,0.00%,F,F)



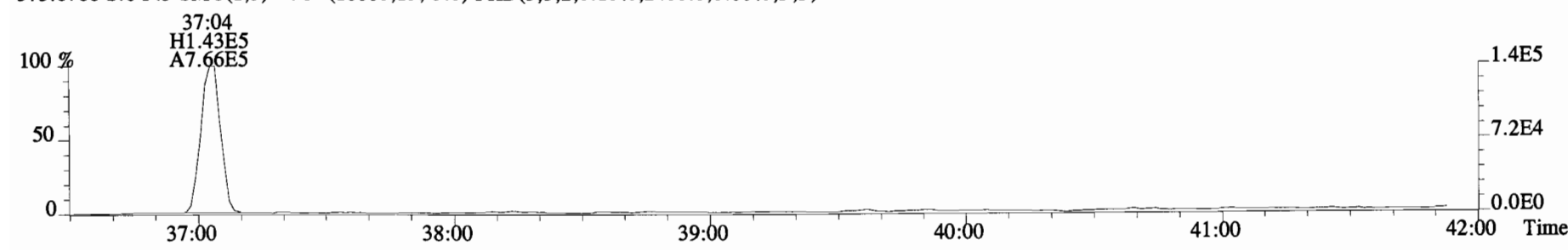
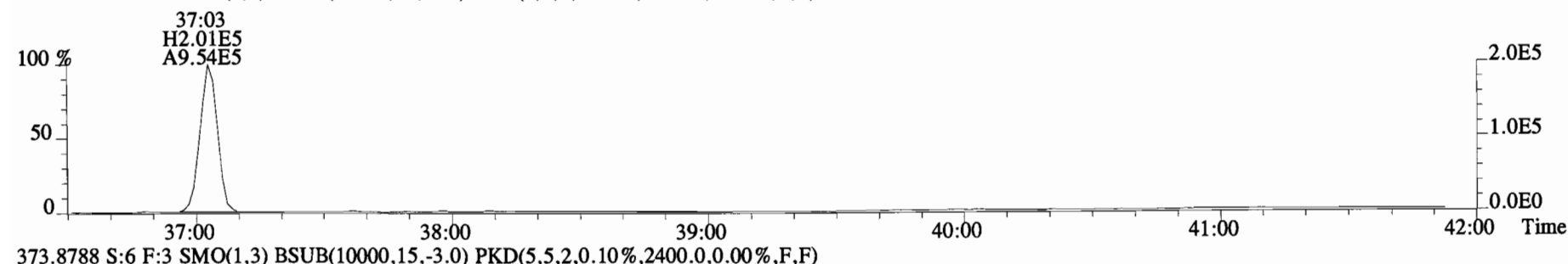
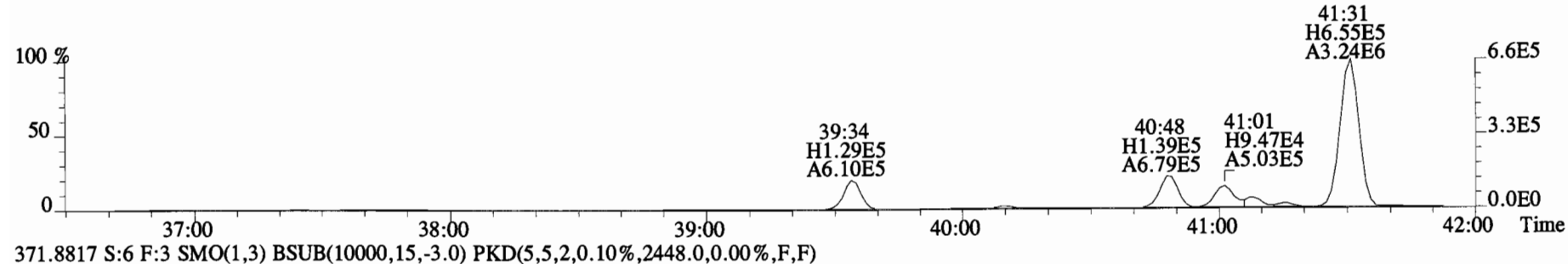
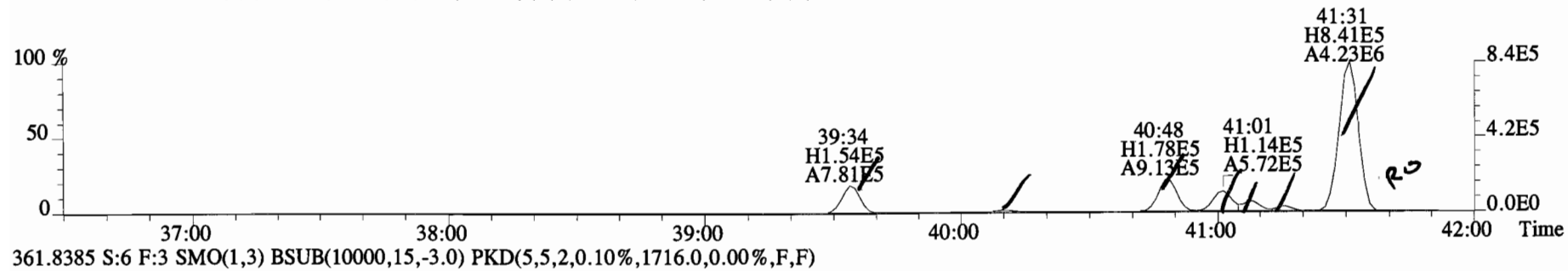
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7180.0,0.00%,F,F)



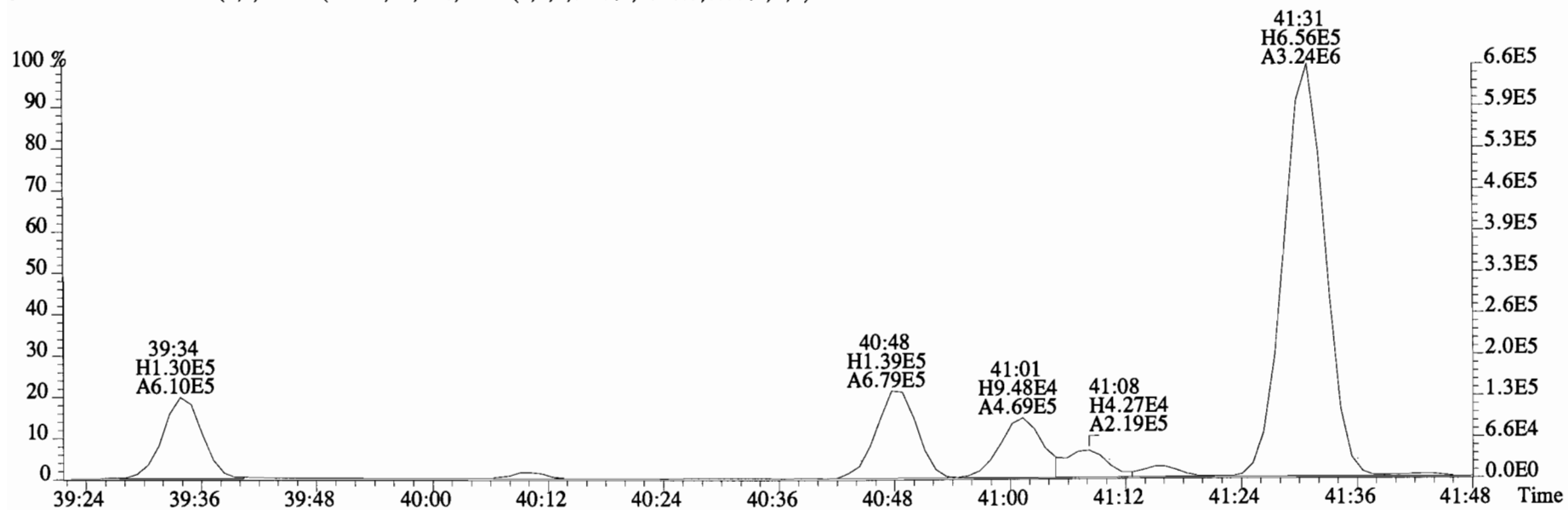
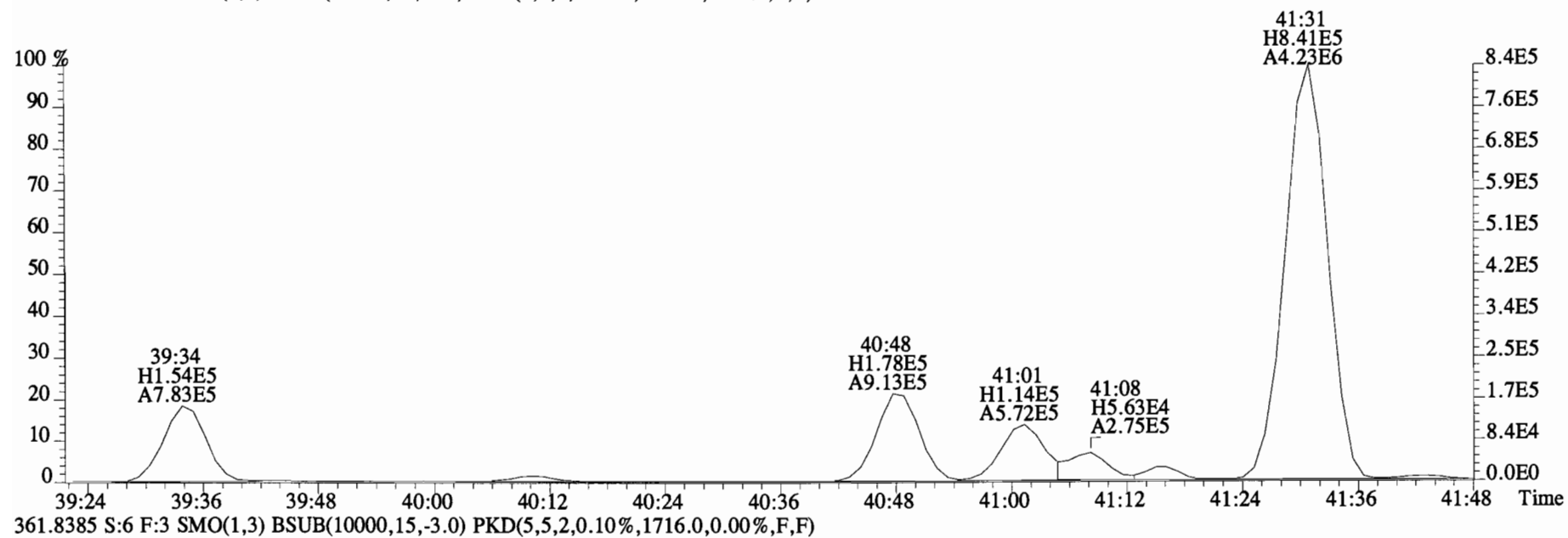
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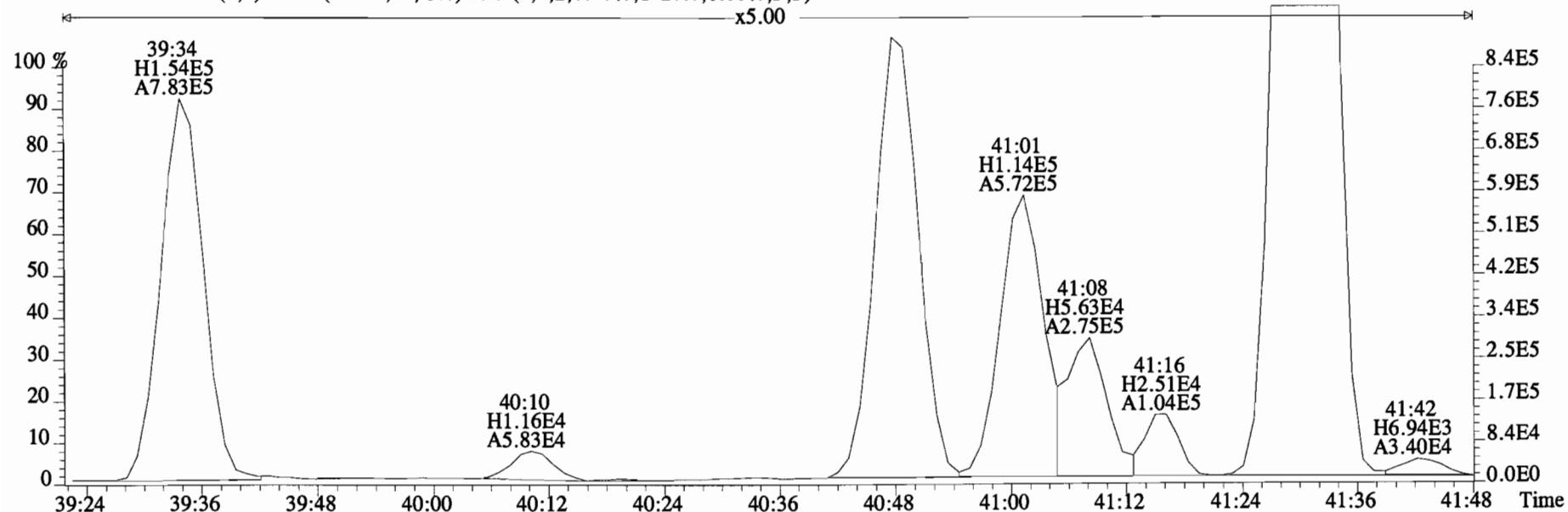
File:150319E1 #1-758 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1720.0,0.00%,F,F)



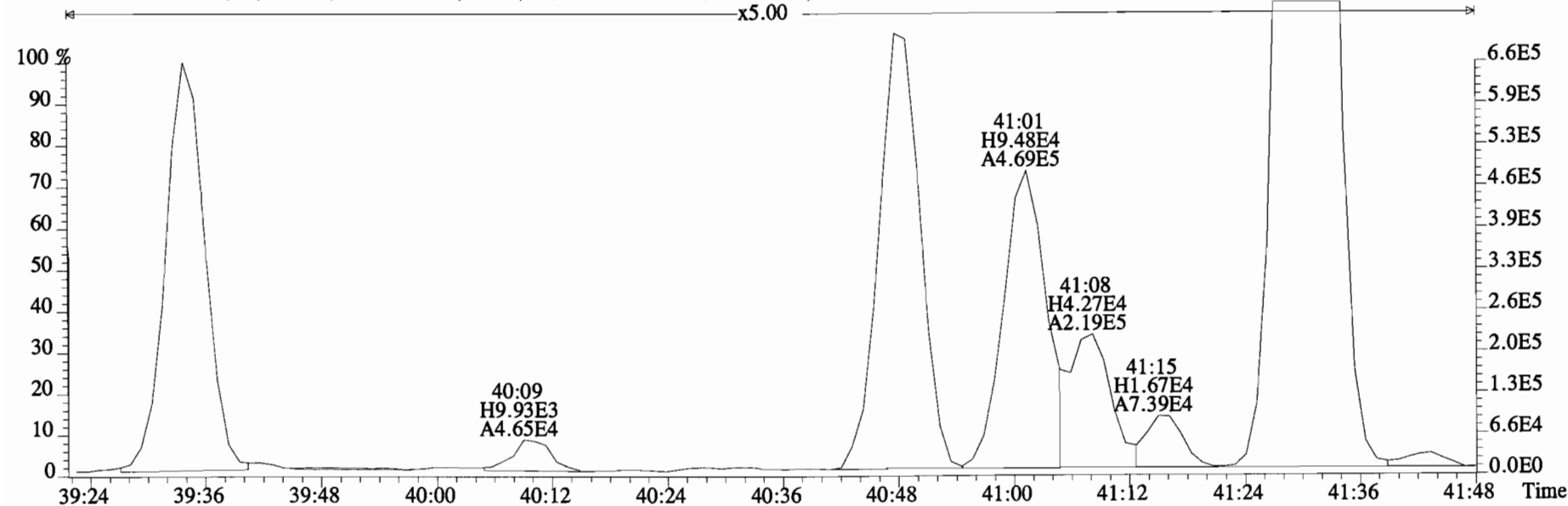
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1720.0,0.00%,F,F)



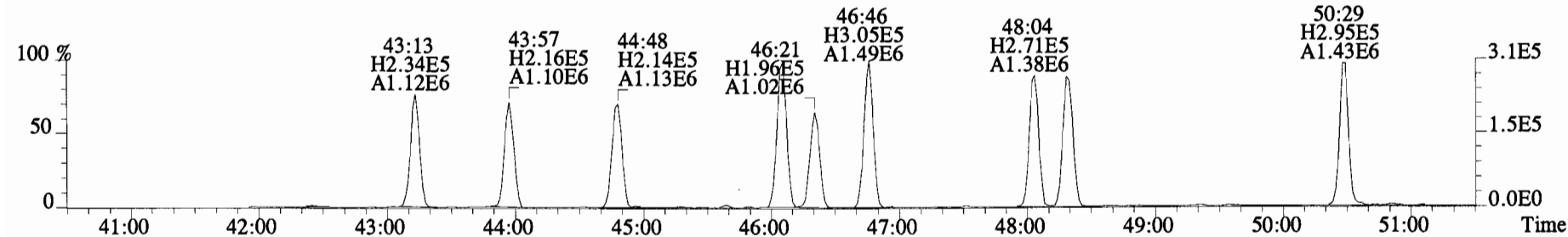
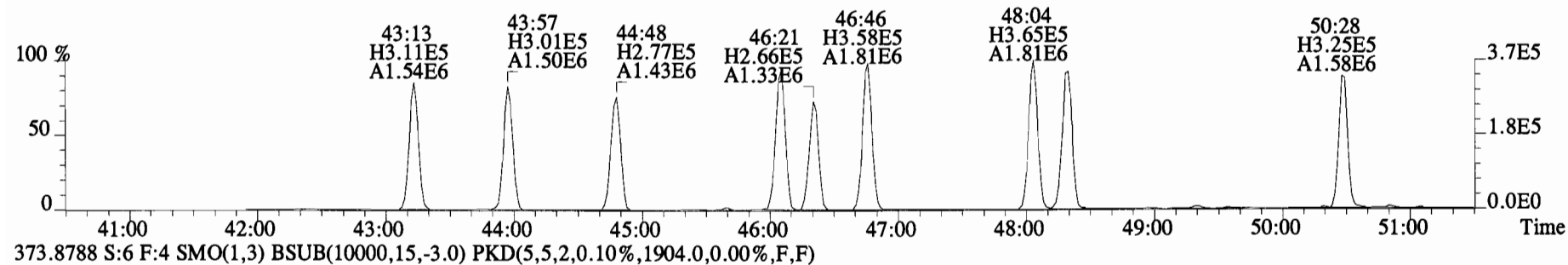
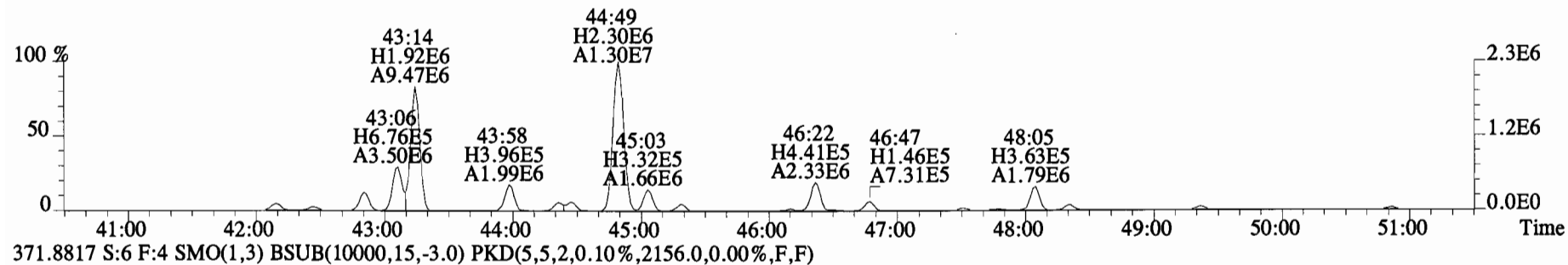
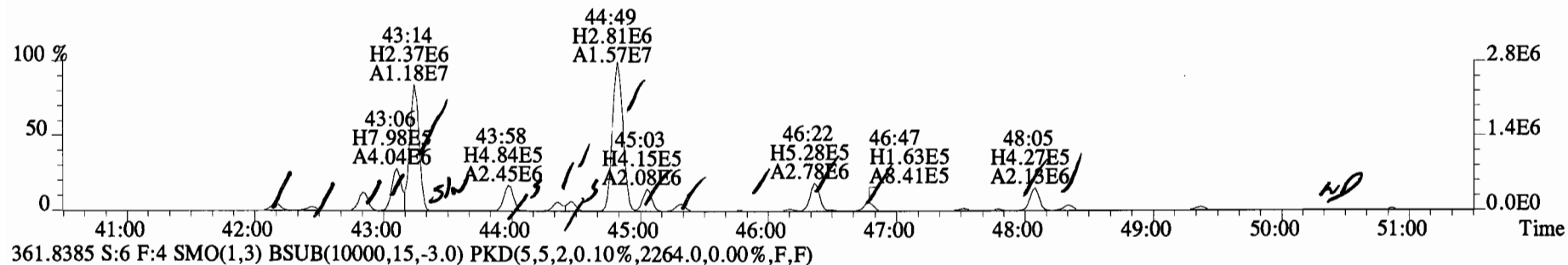
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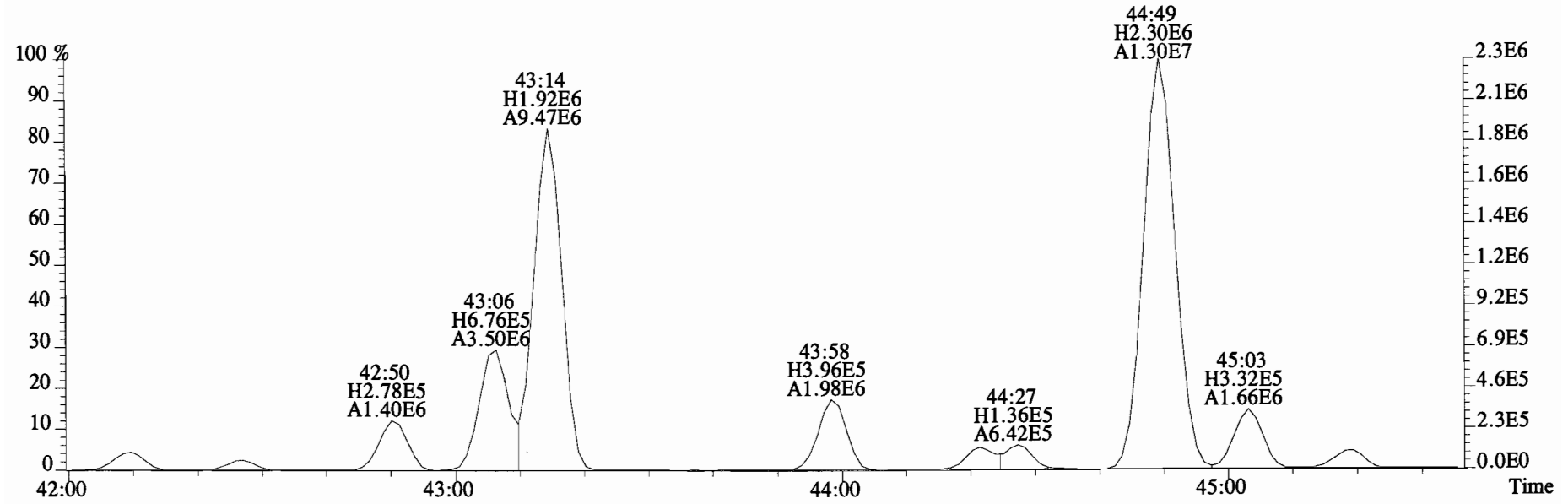
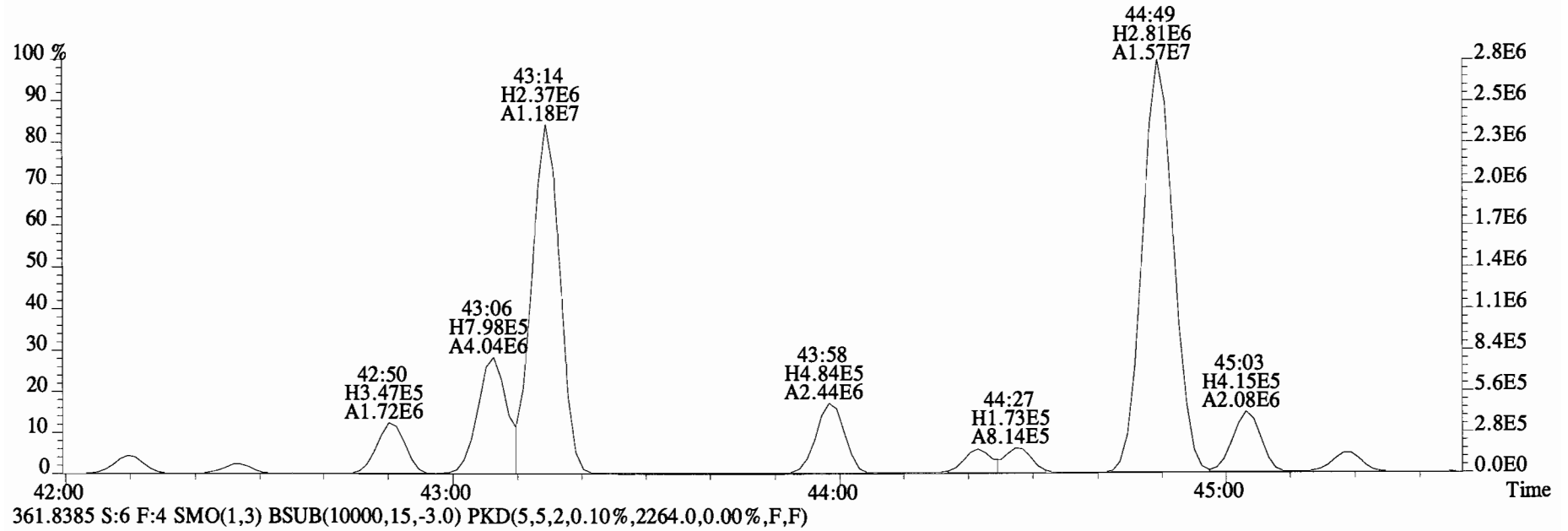
361.8385 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1716.0,0.00%,F,F)



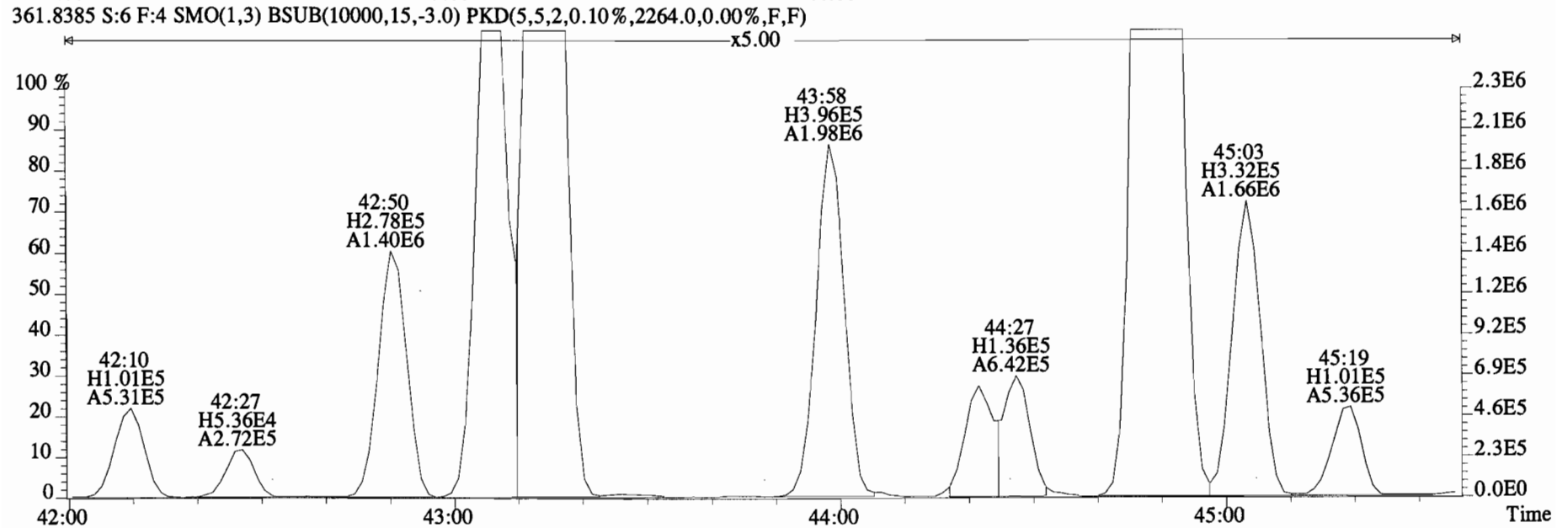
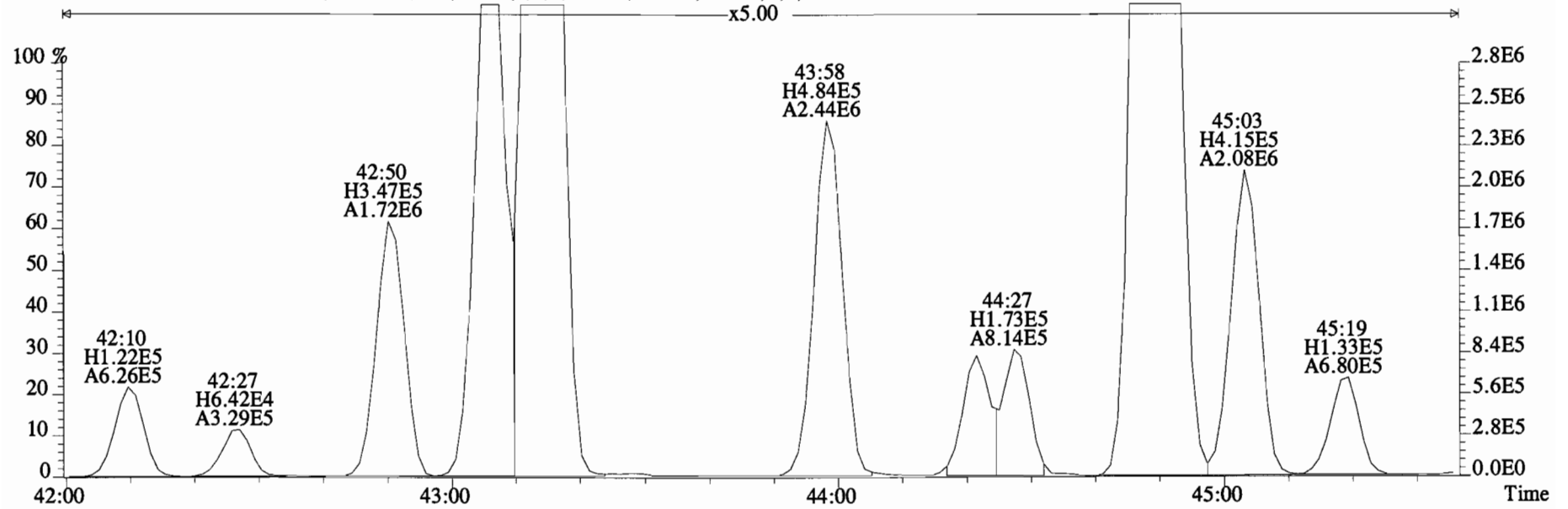
File:150319E1 #1-555 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2256.0,0.00%,F,F)



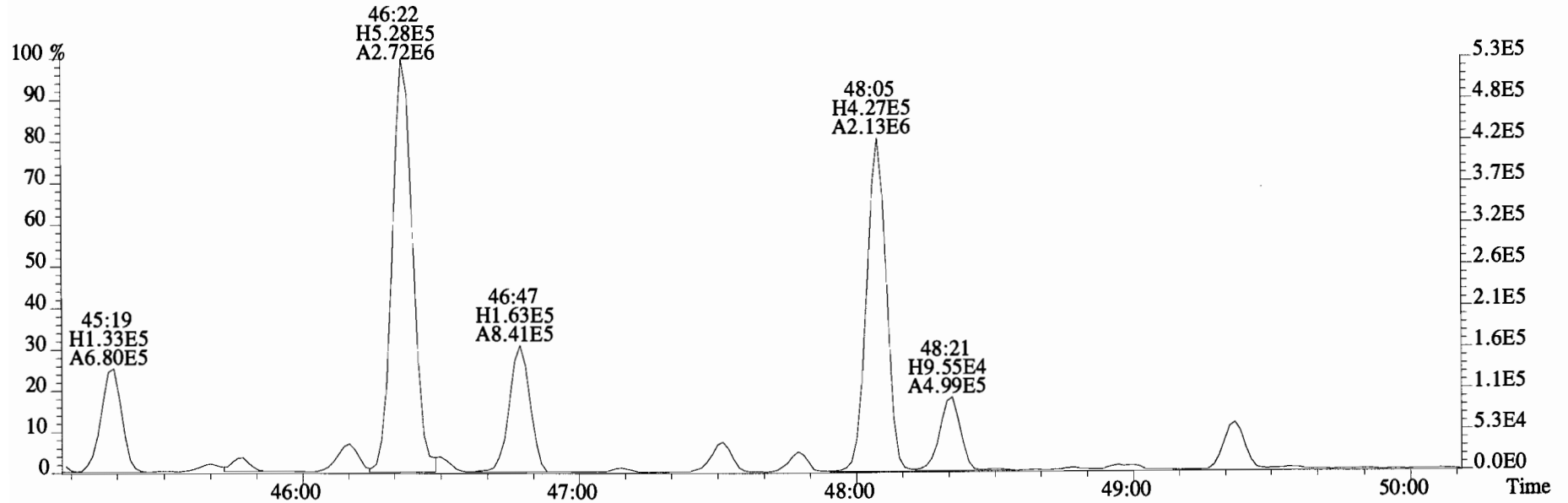
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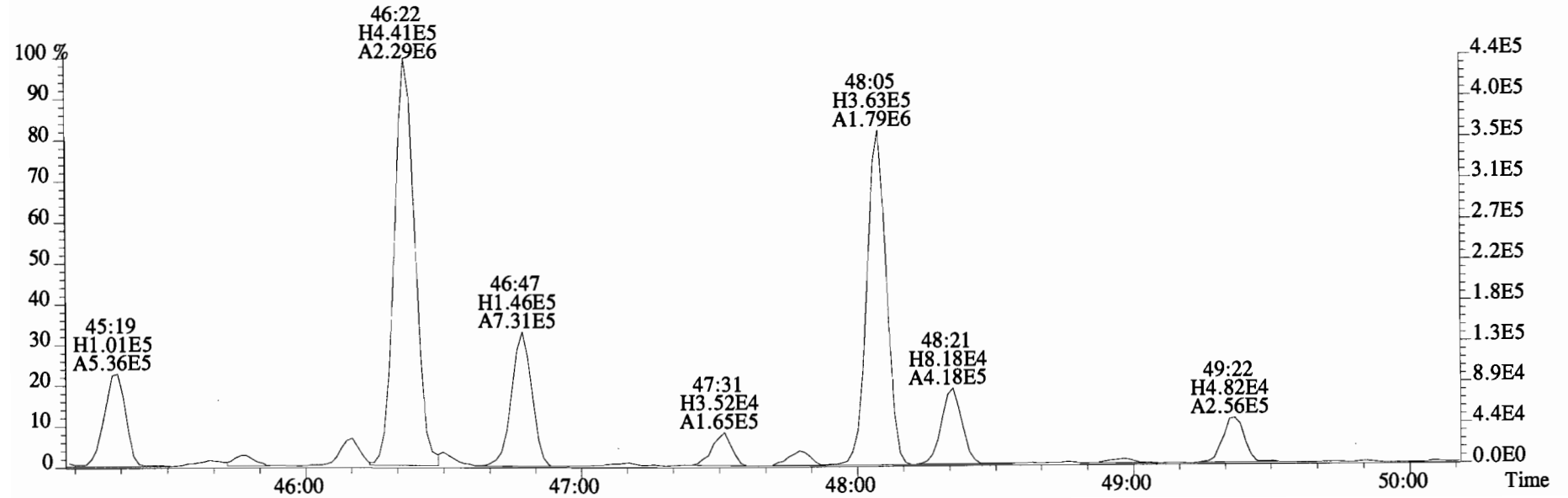
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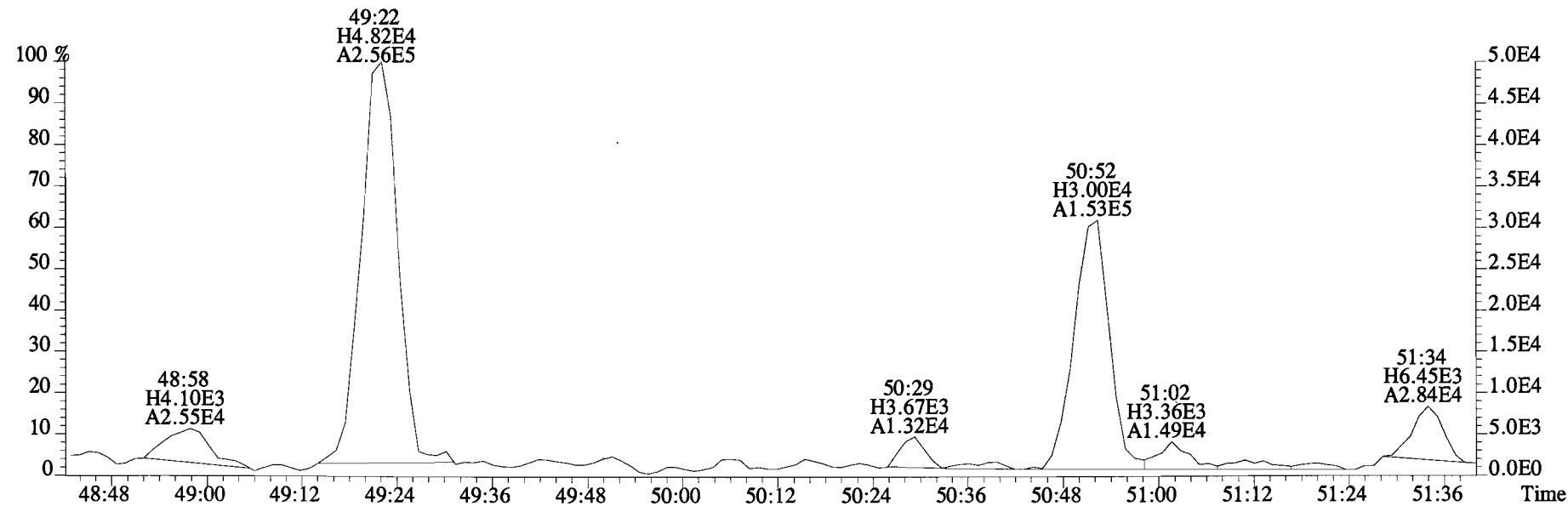
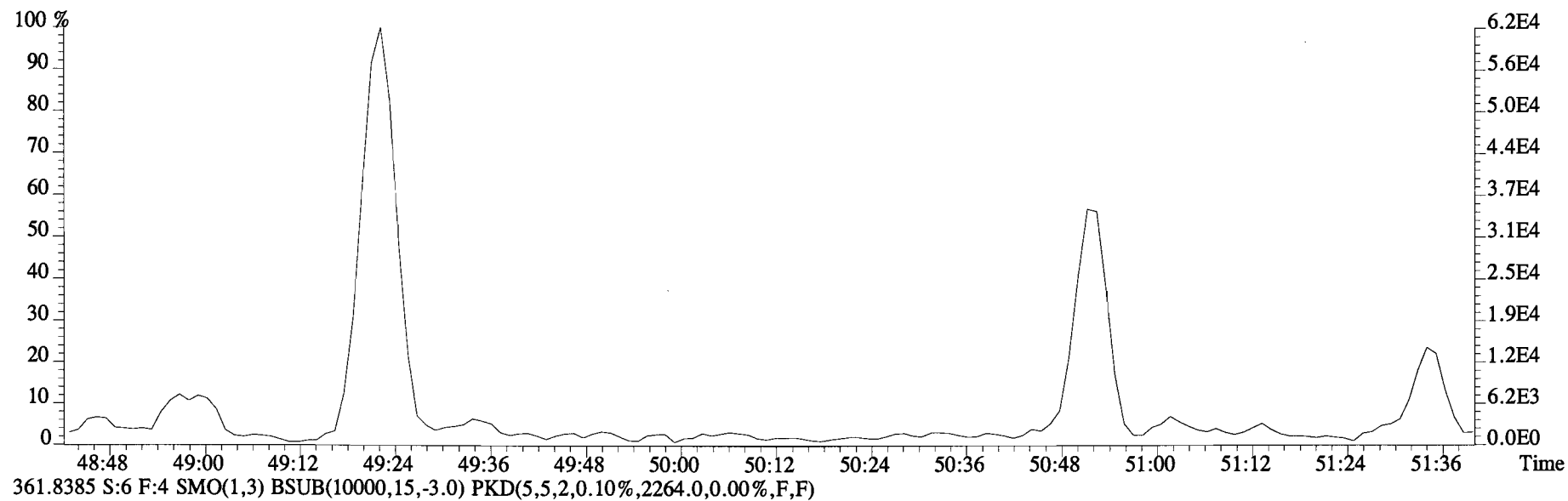
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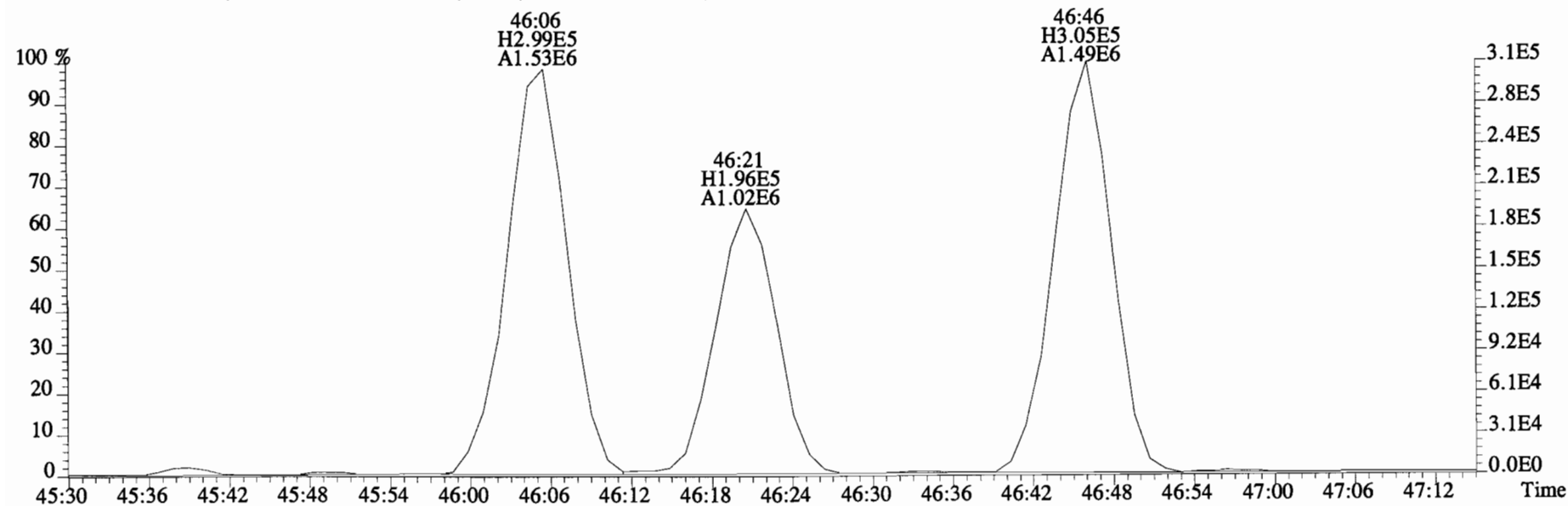
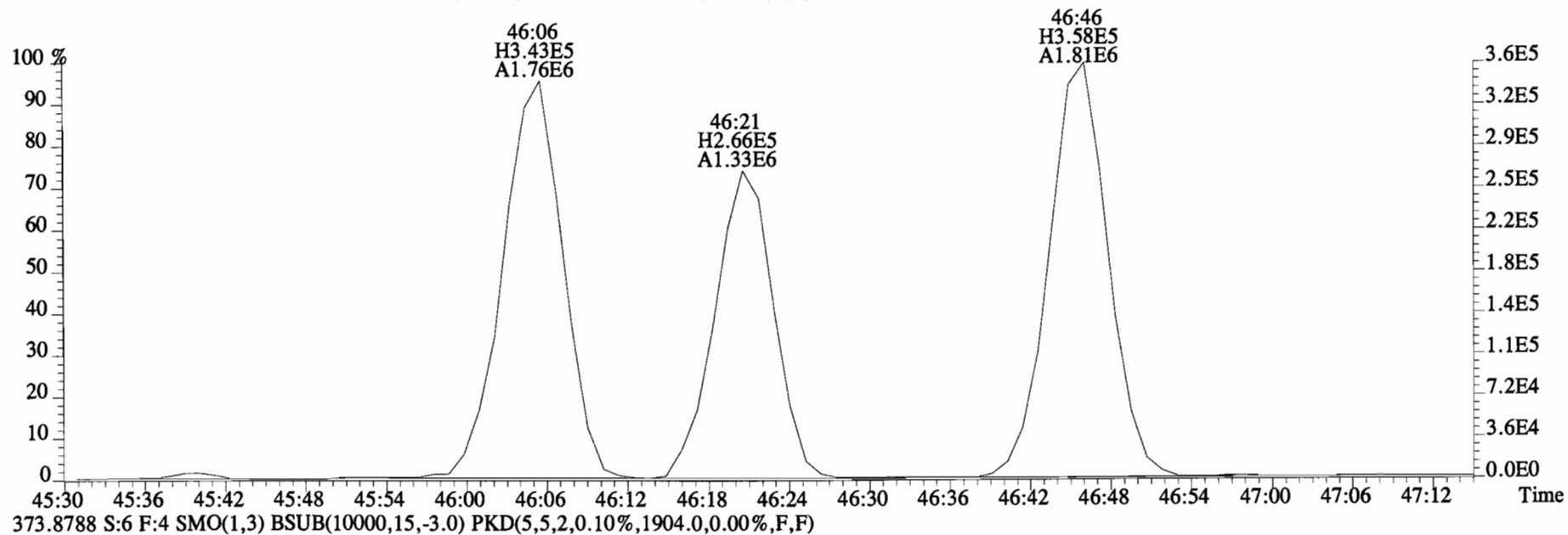
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2264.0,0.00%,F,F)



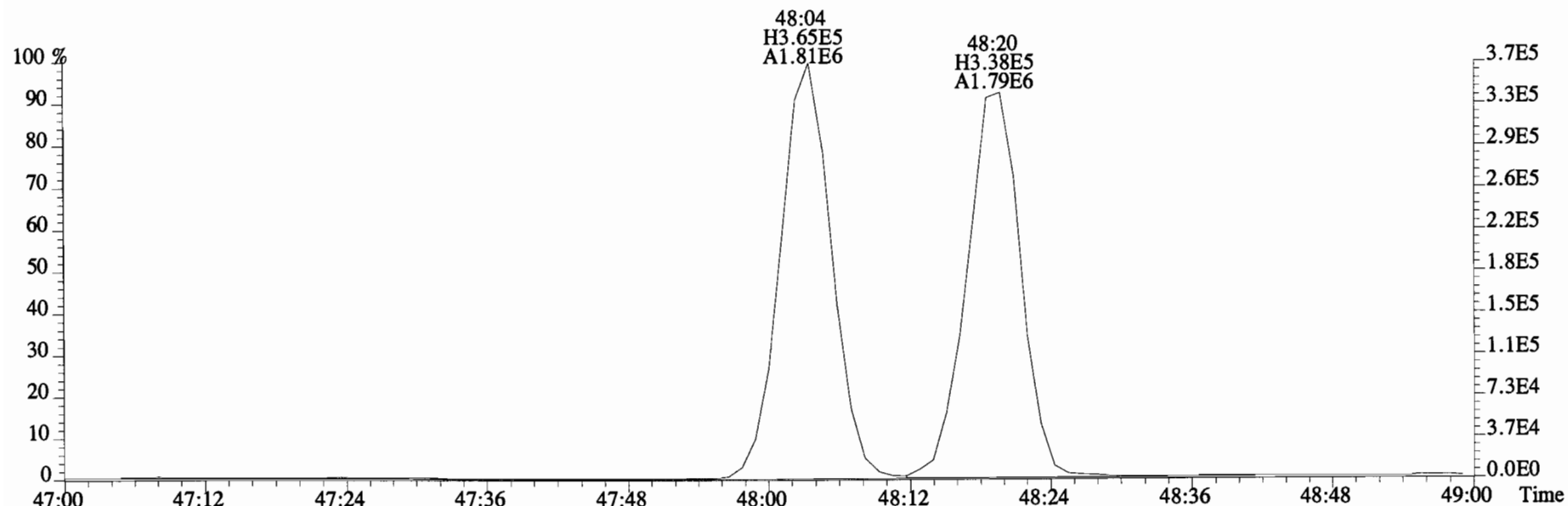
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
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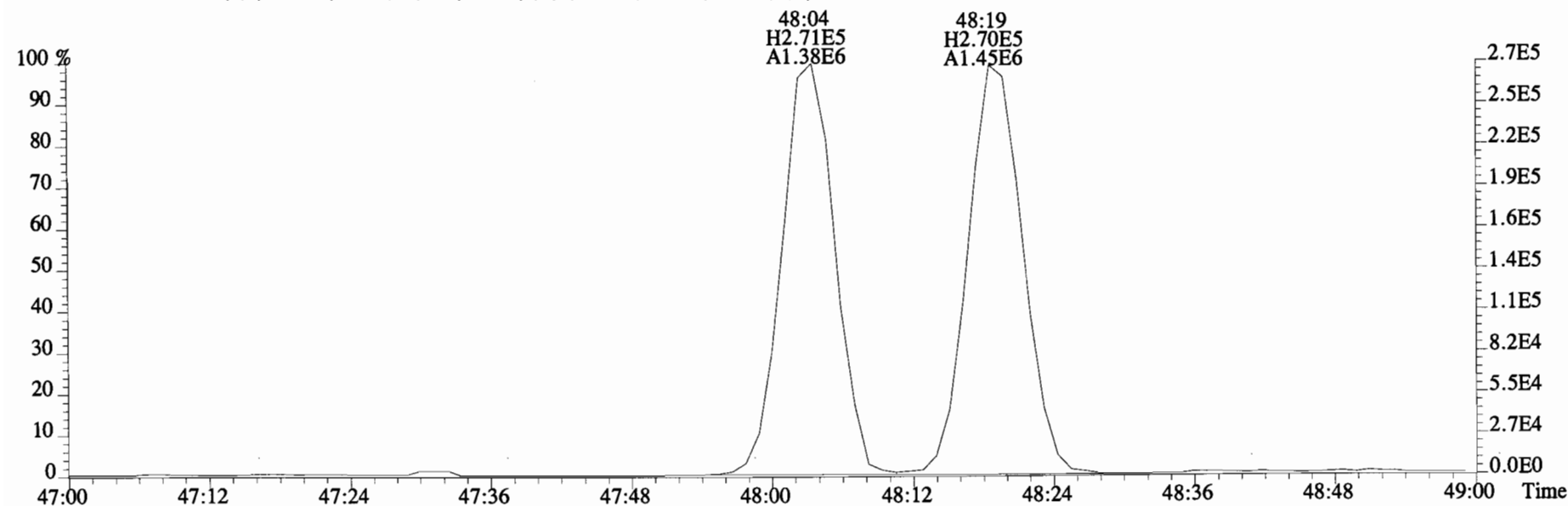
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2156.0,0.00%,F,F)



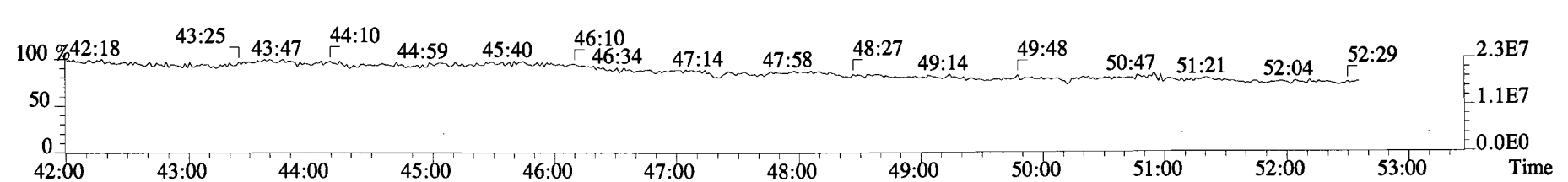
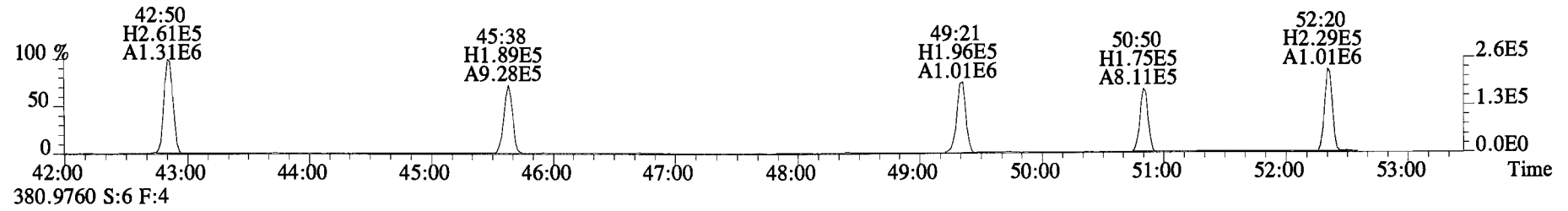
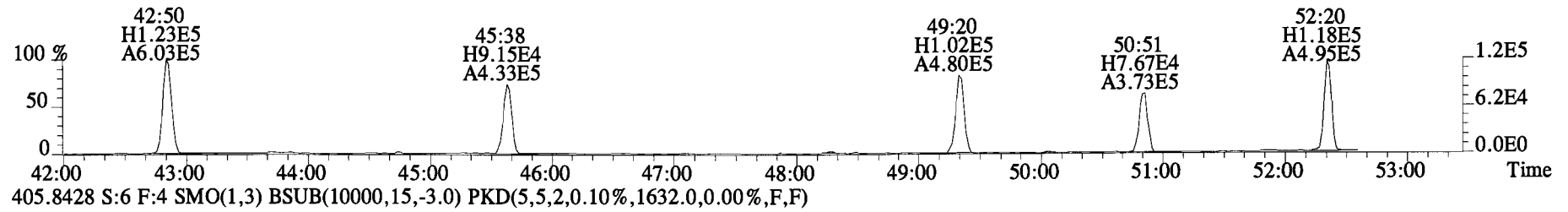
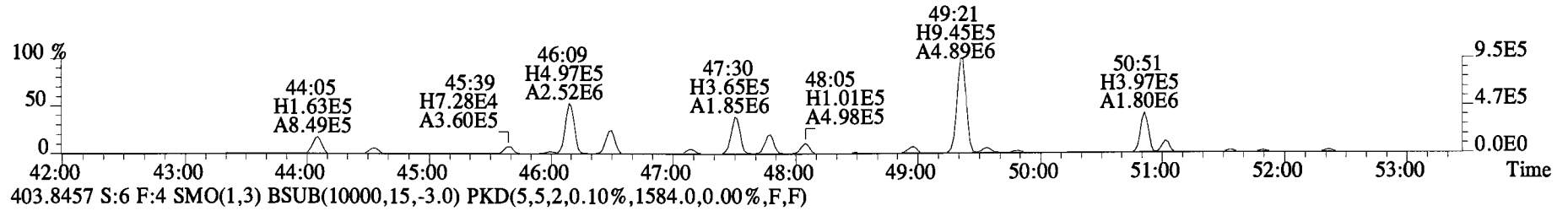
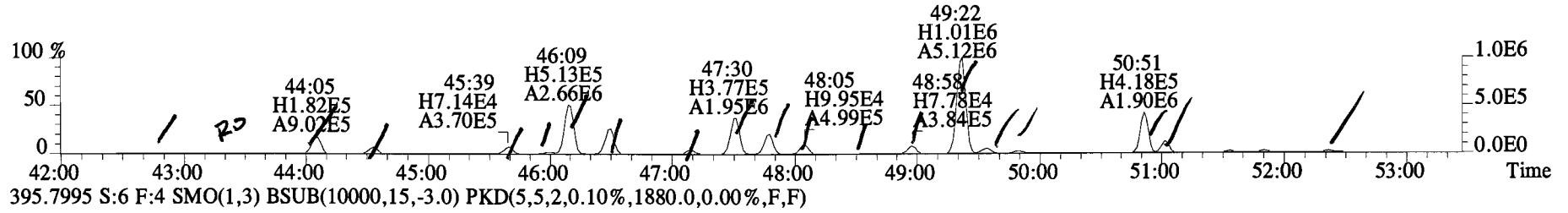
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2156.0,0.00%,F,F)



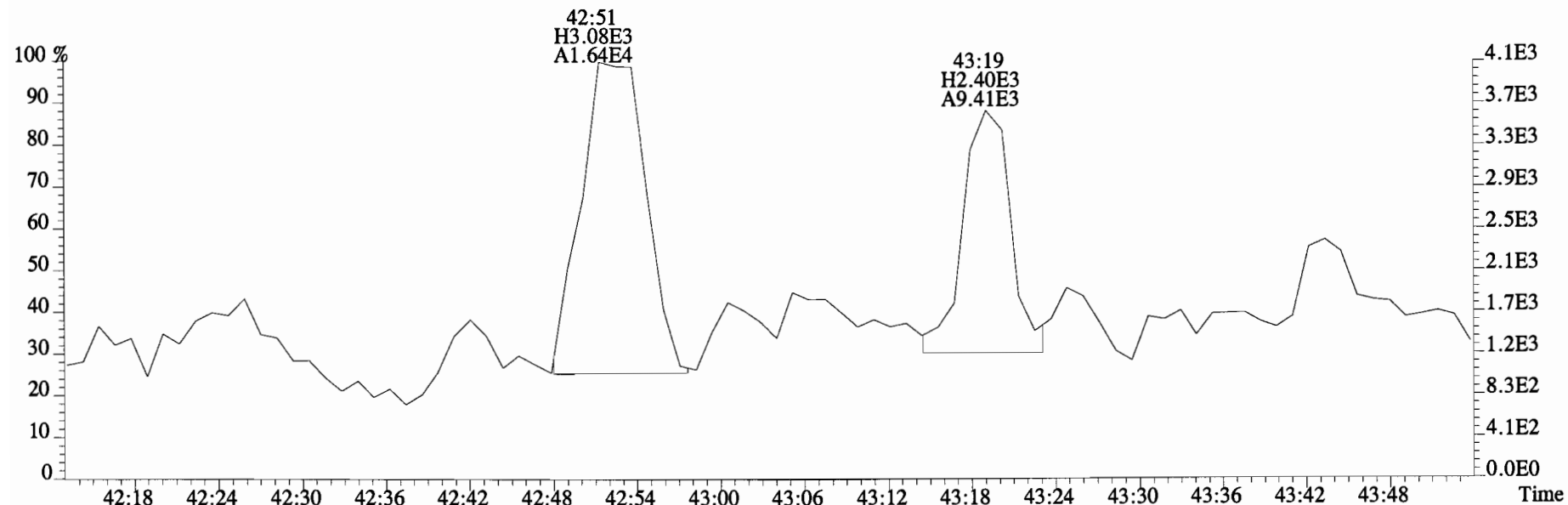
373.8788 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1904.0,0.00%,F,F)



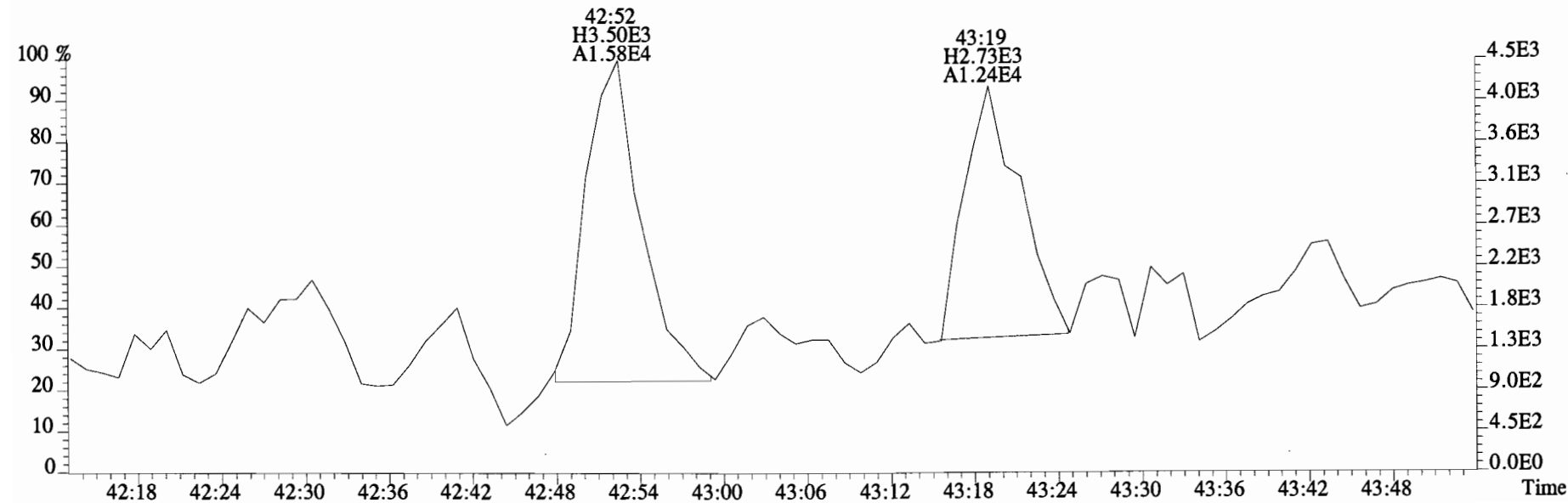
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1888.0,0.00%,F,F)



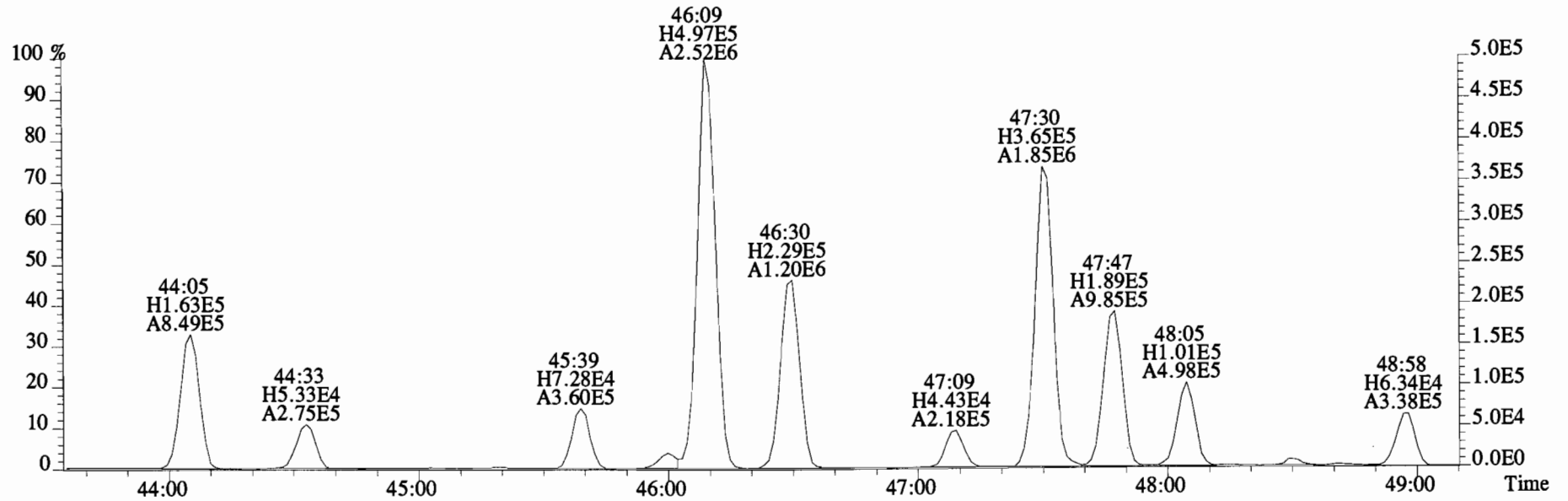
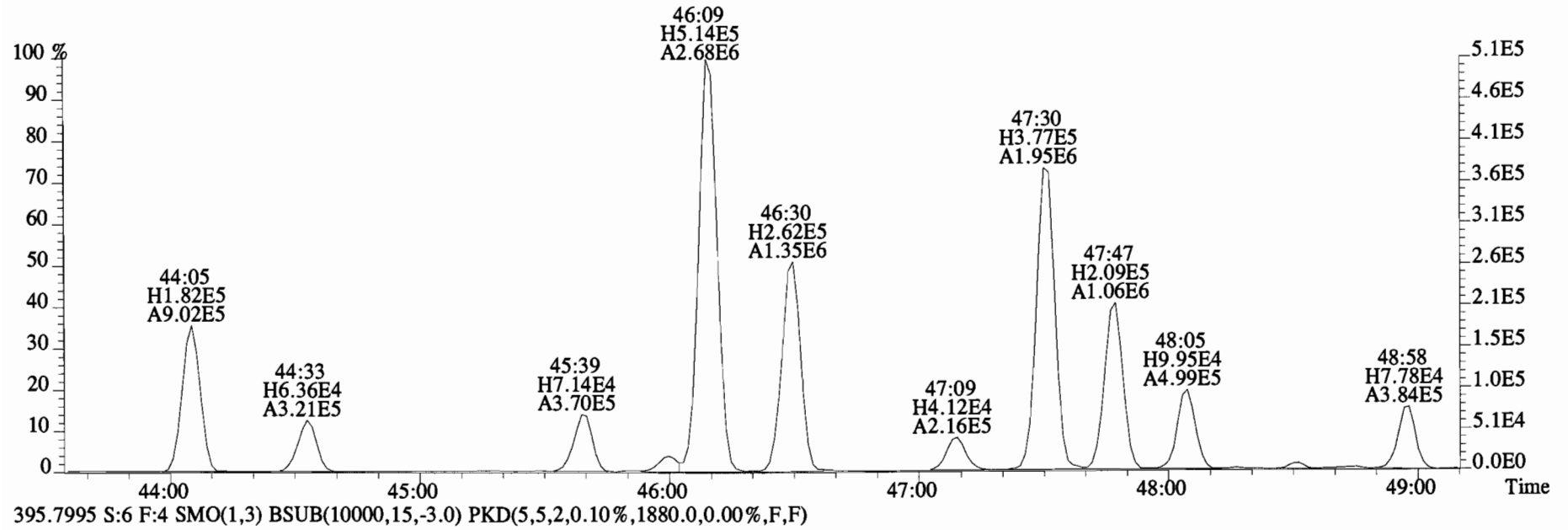
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
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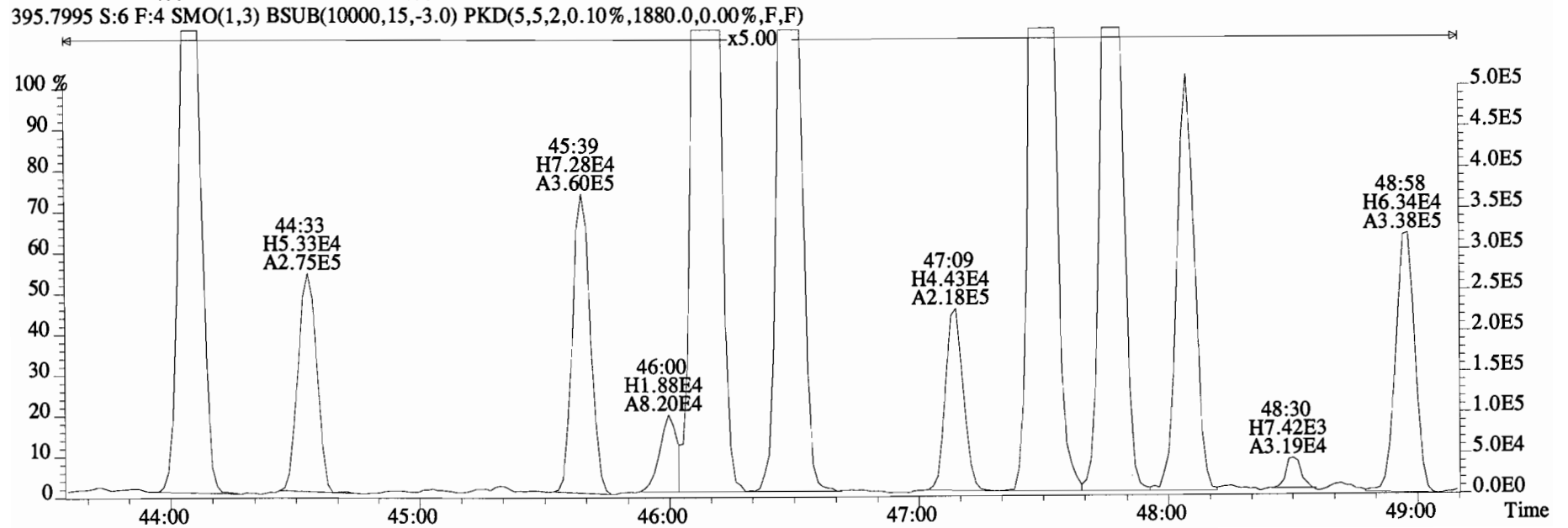
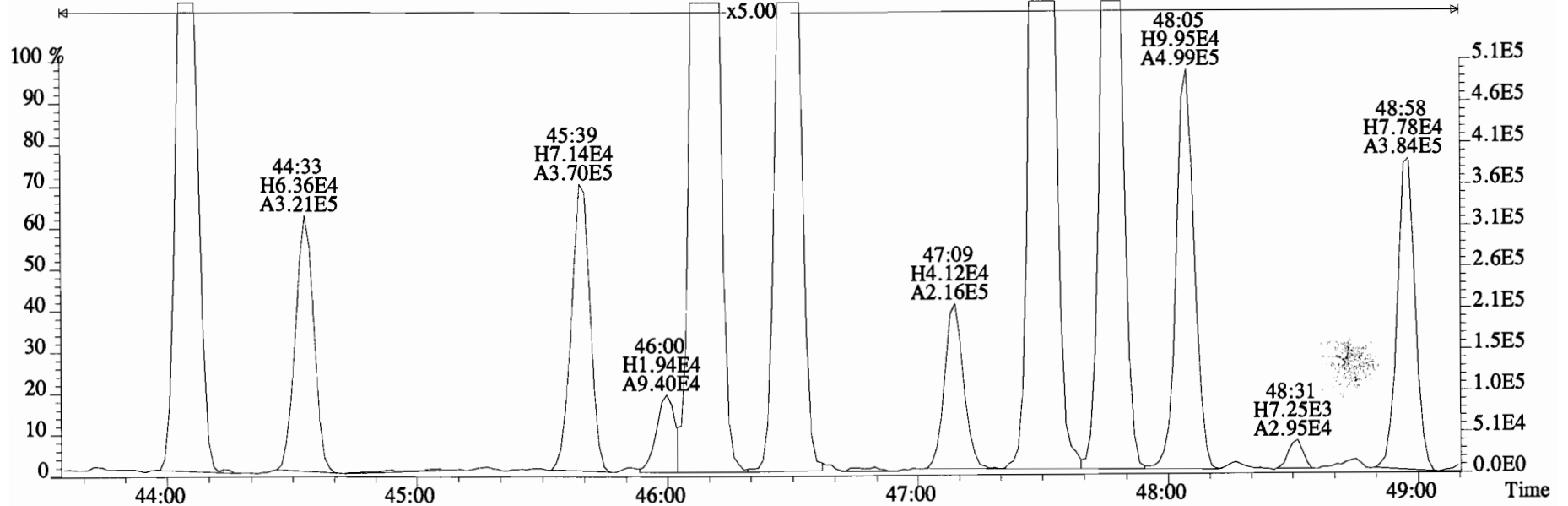
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1888.0,0.00%,F,F)



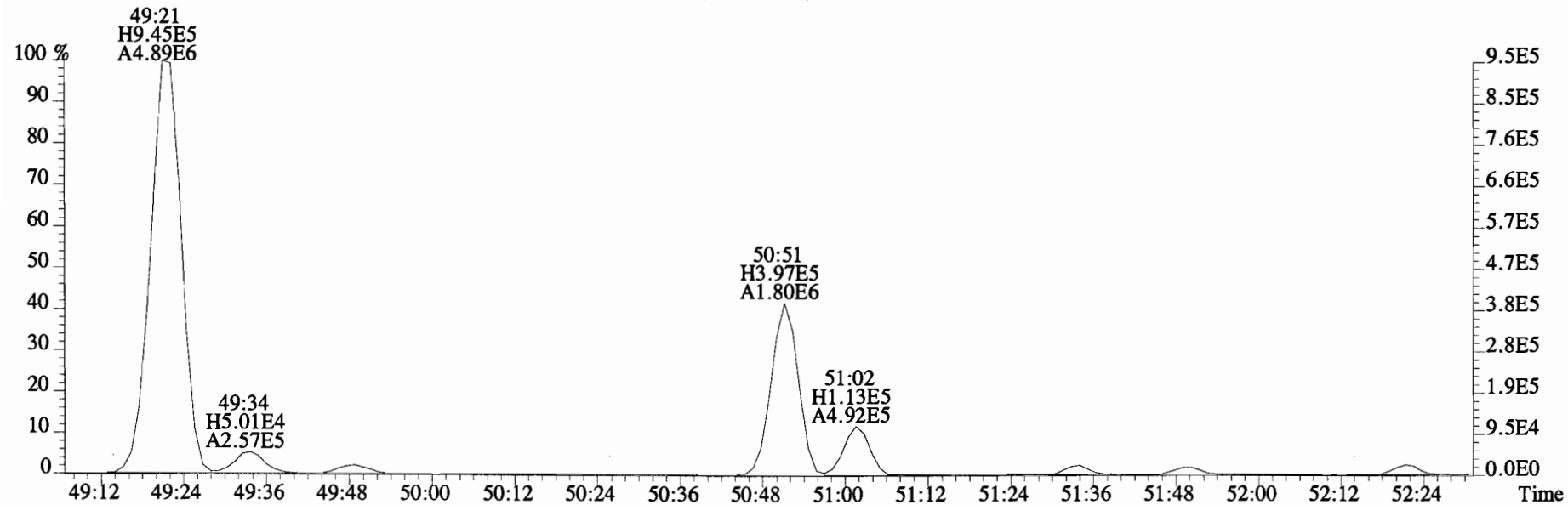
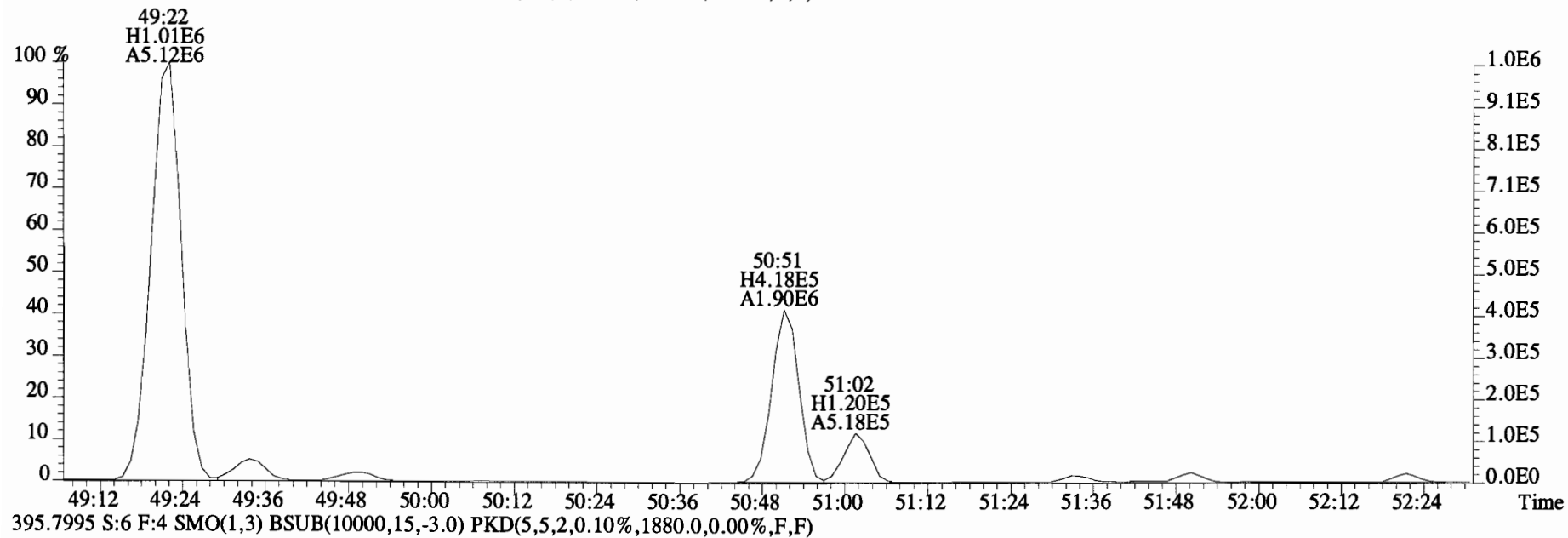
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1888.0,0.00%,F,F)



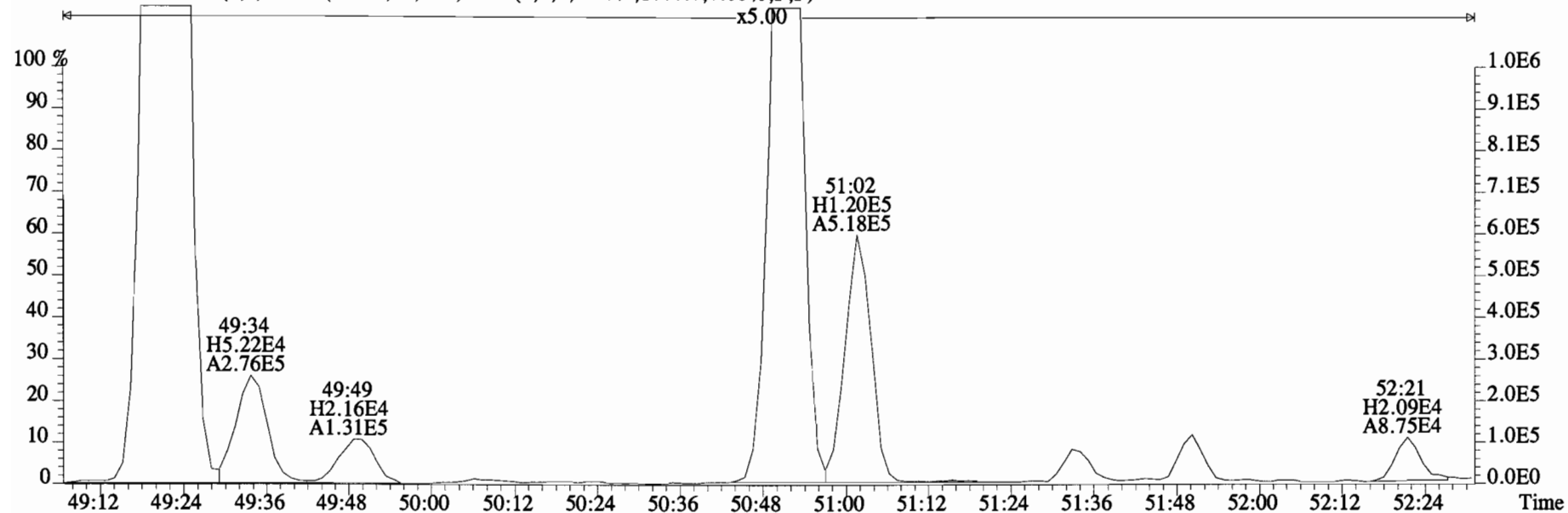
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1888.0,0.00%,F,F)



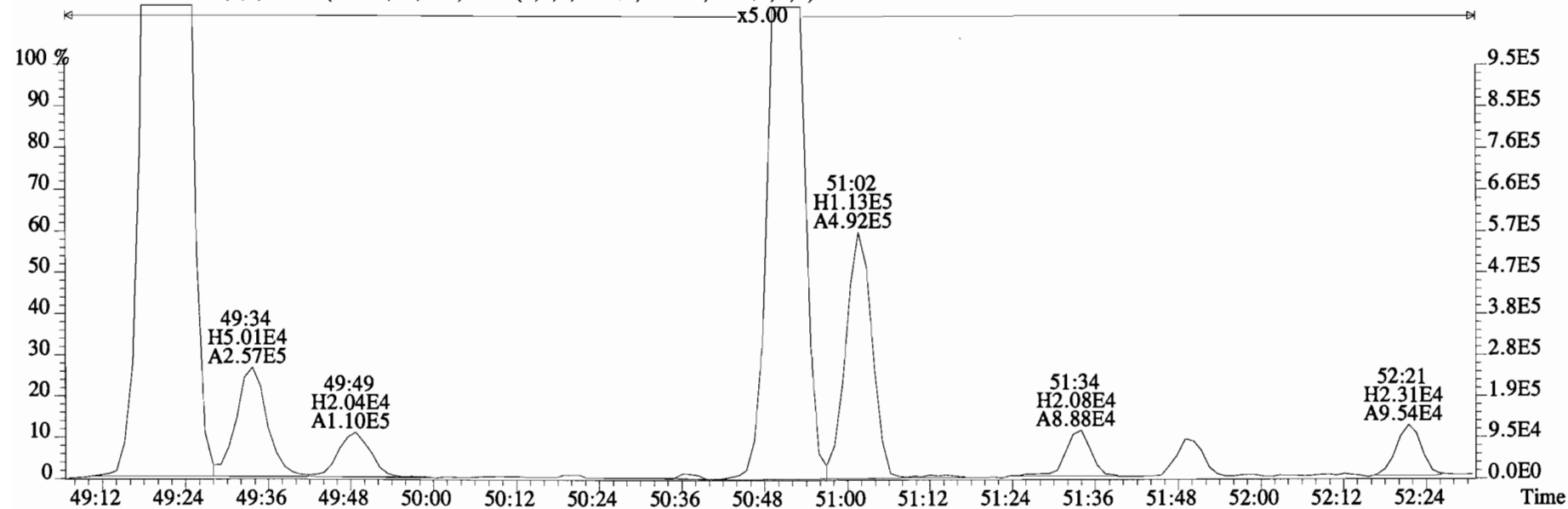
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1888.0,0.00%,F,F)



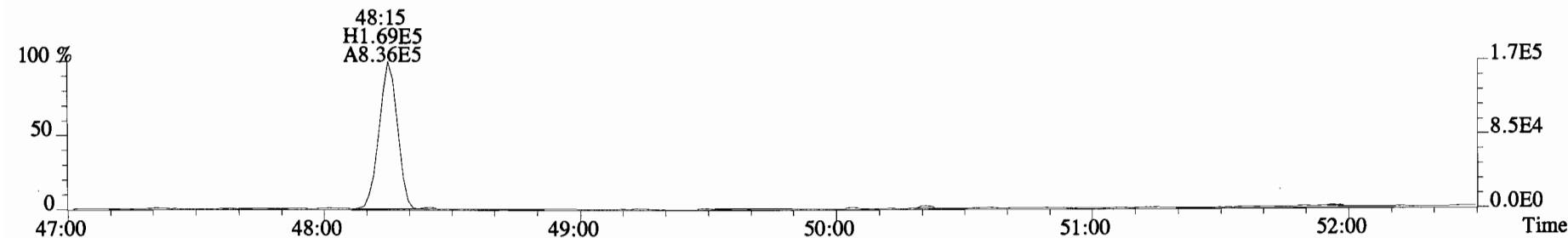
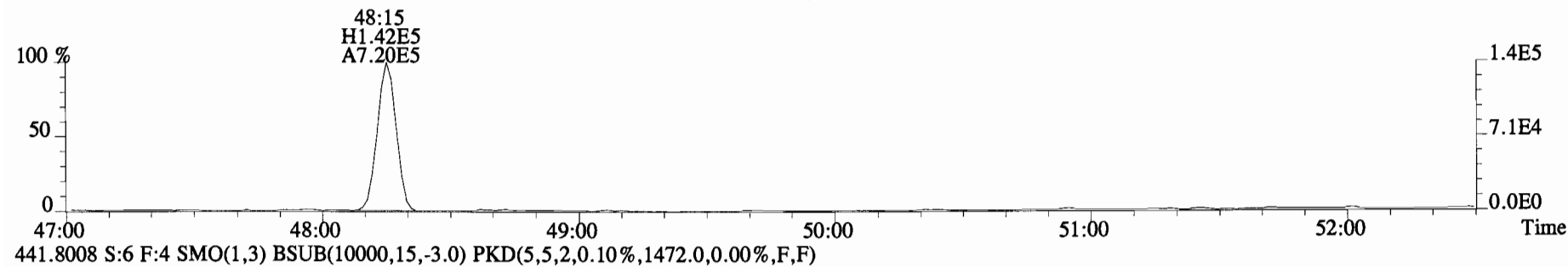
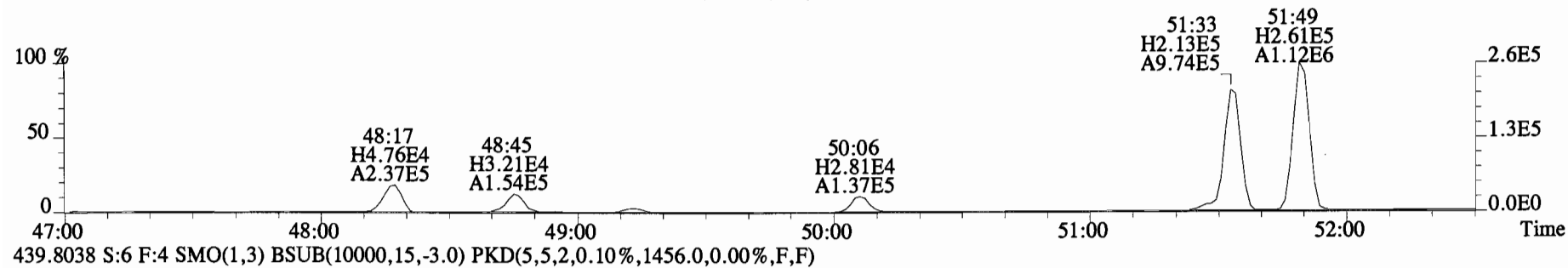
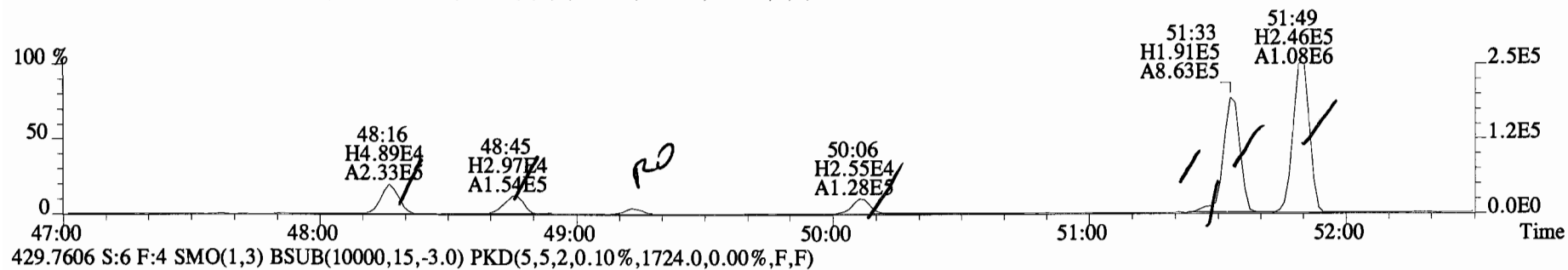
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1888.0,0.00%,F,F)



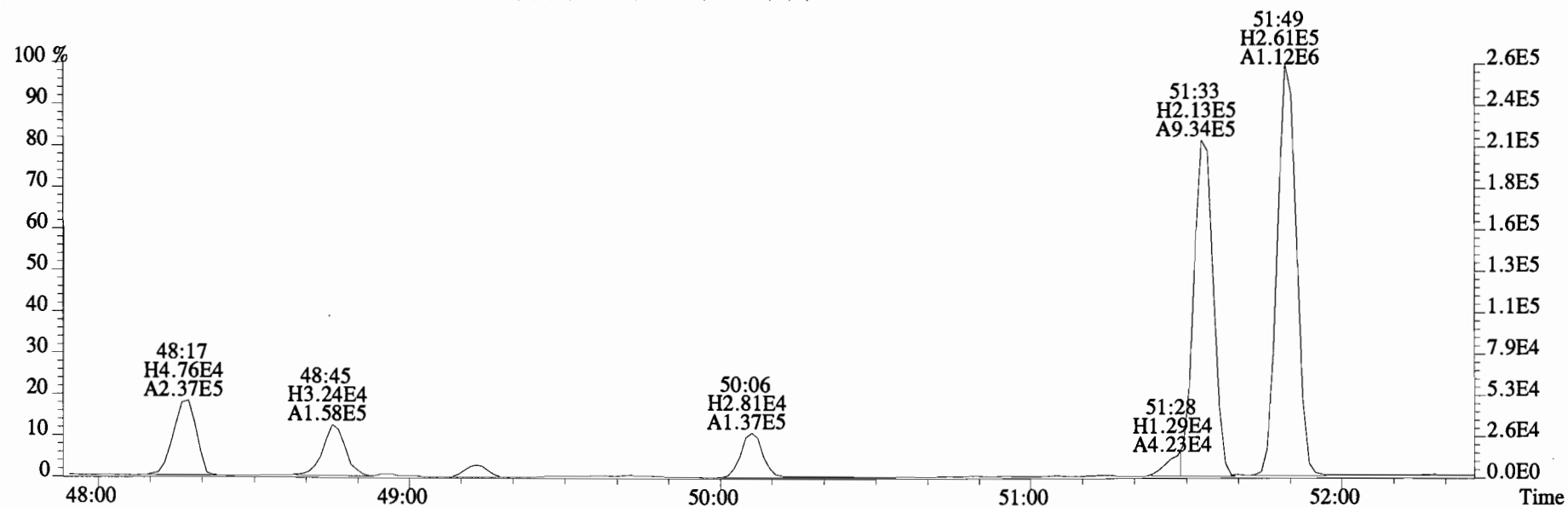
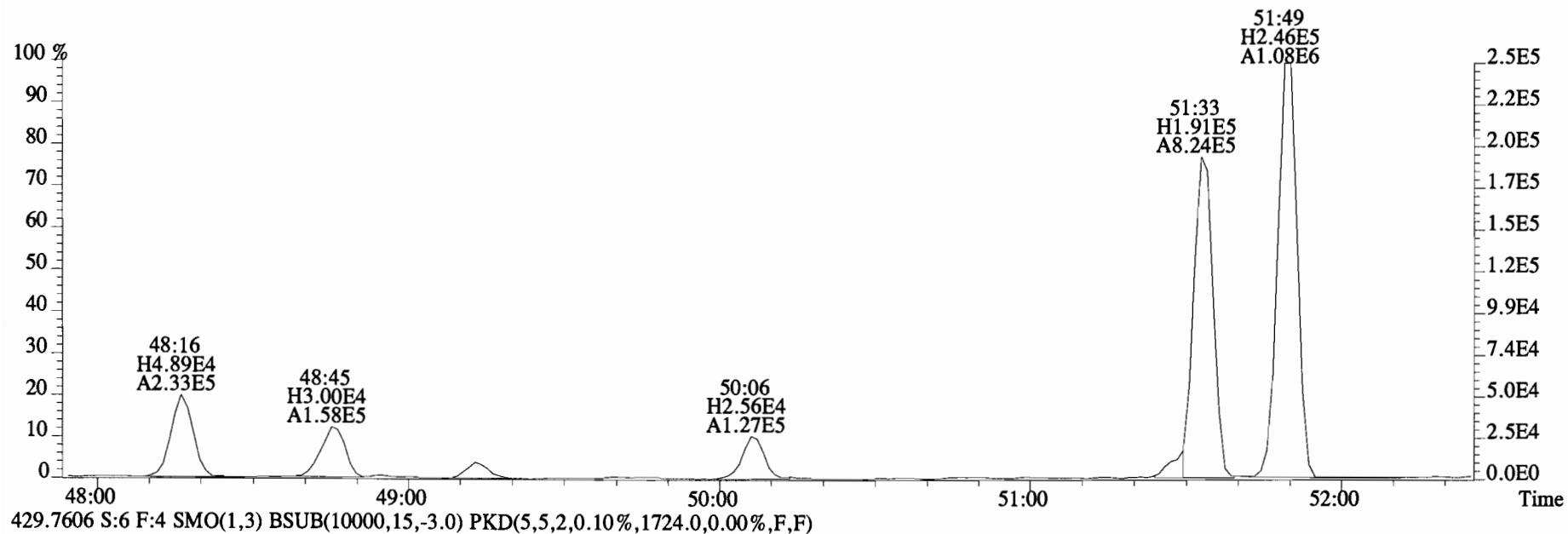
395.7995 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1880.0,0.00%,F,F)



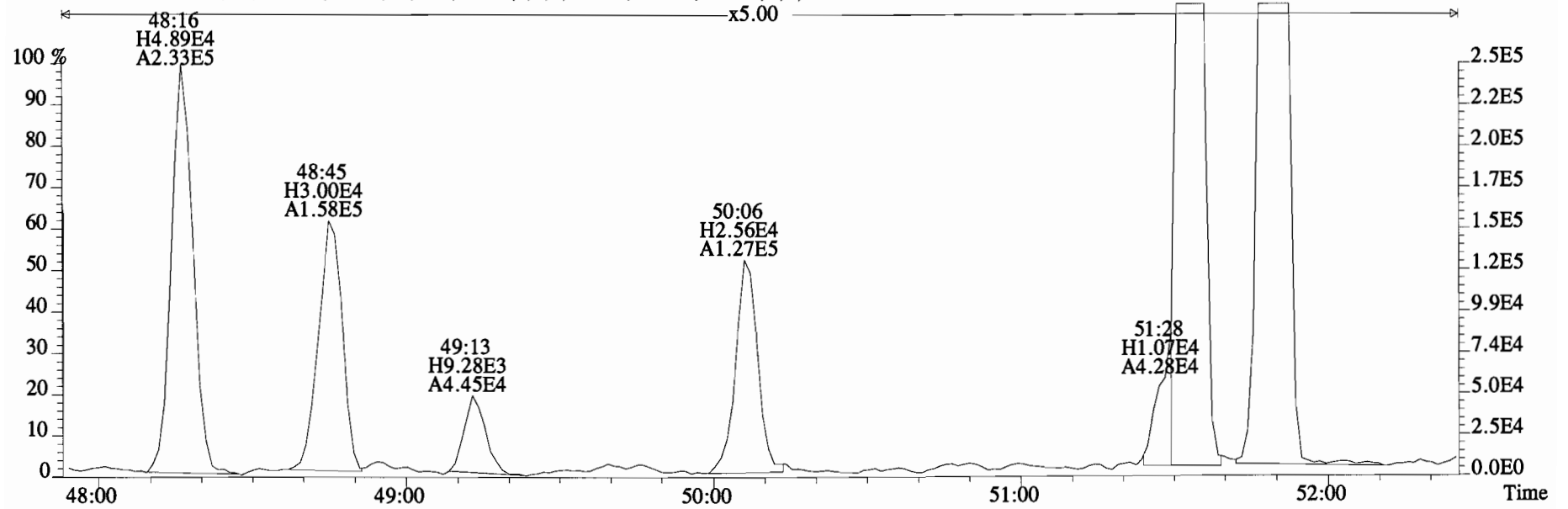
File:150319E1 #1-555 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1496.0,0.00%,F,F)



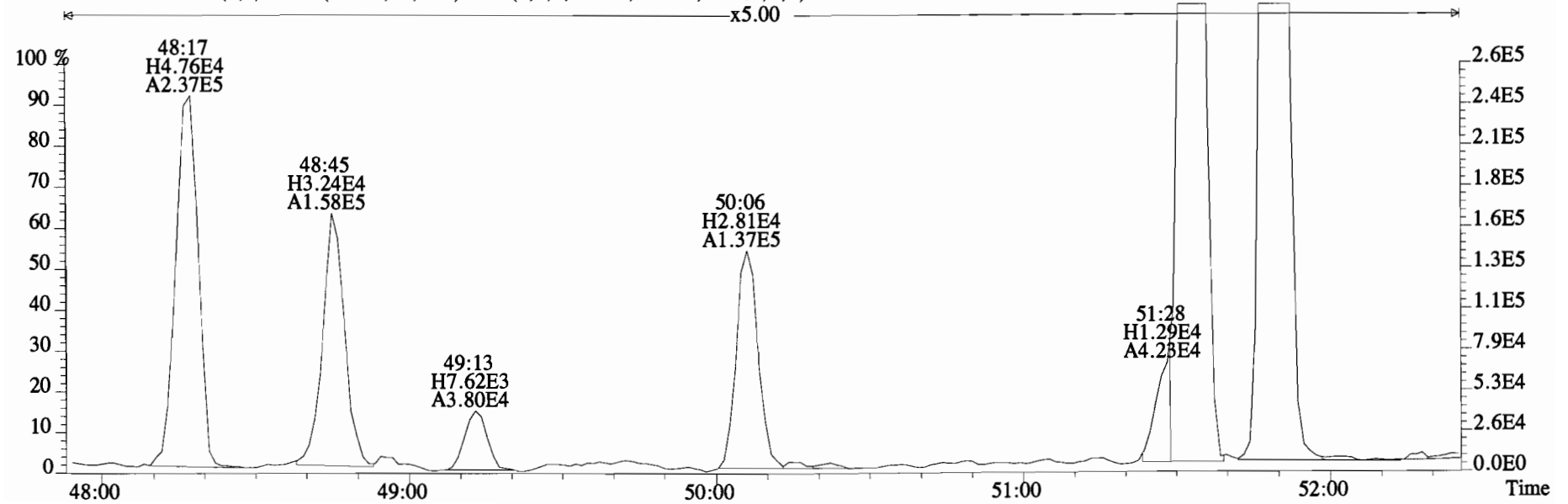
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1496.0,0.00%,F,F)



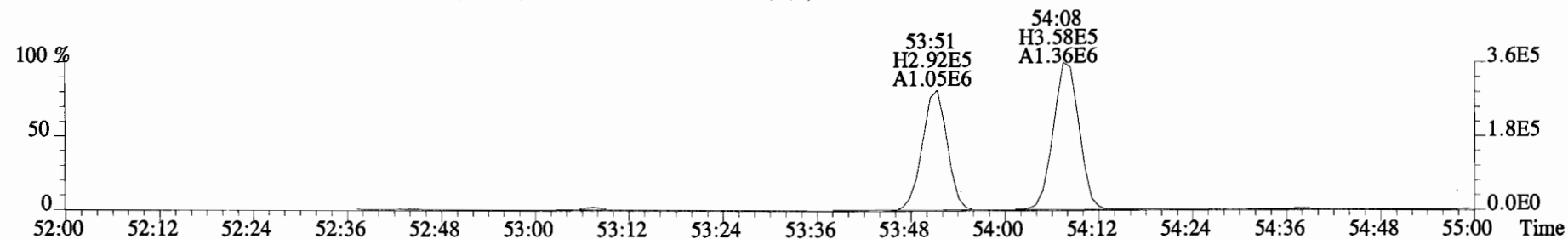
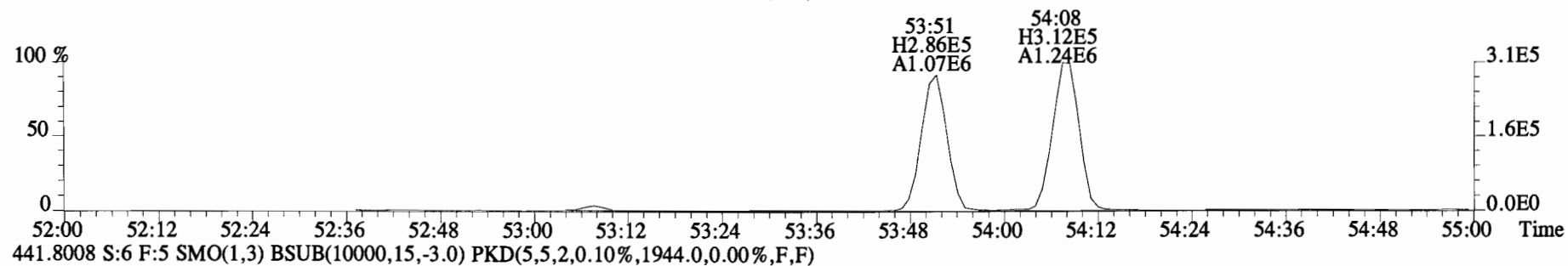
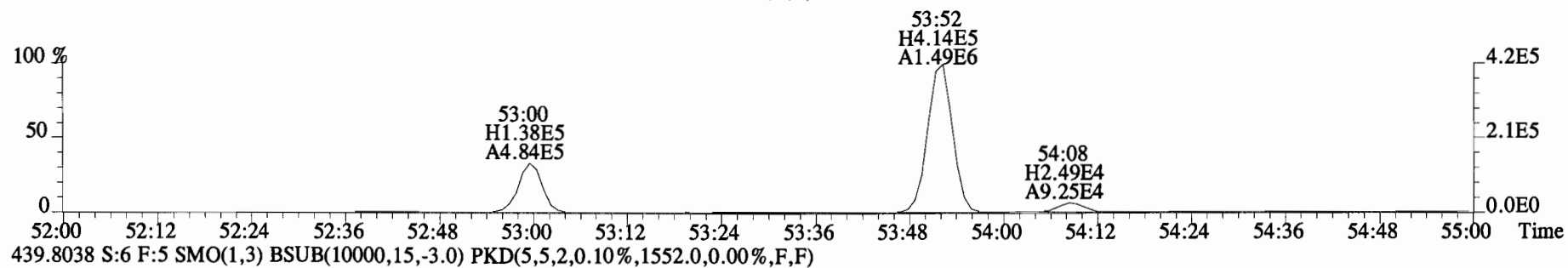
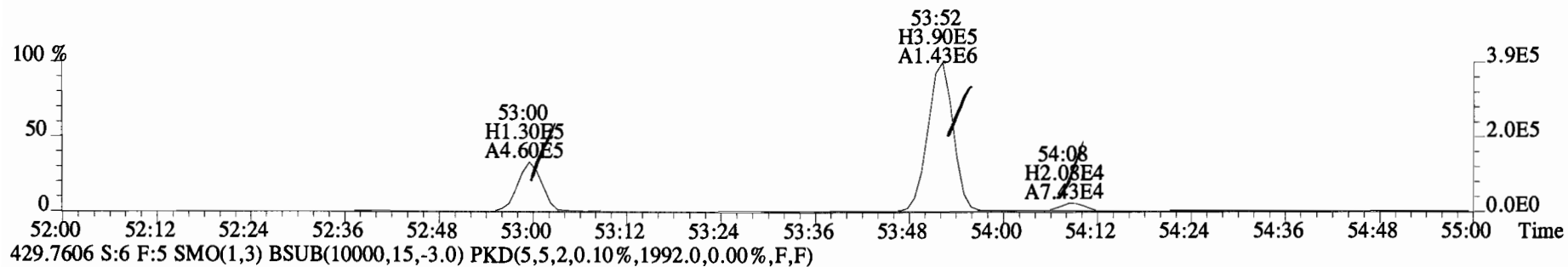
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1496.0,0.00%,F,F)



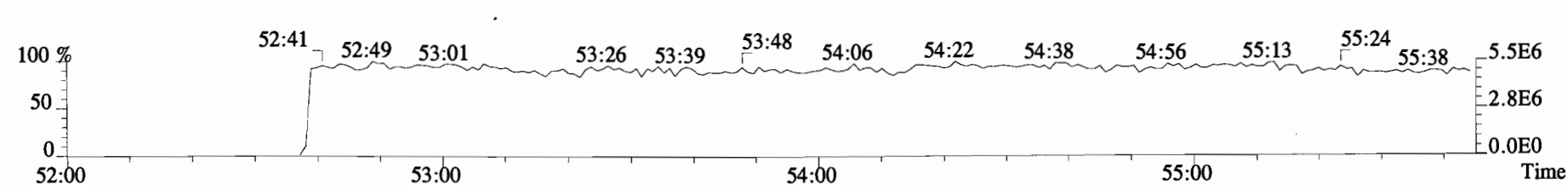
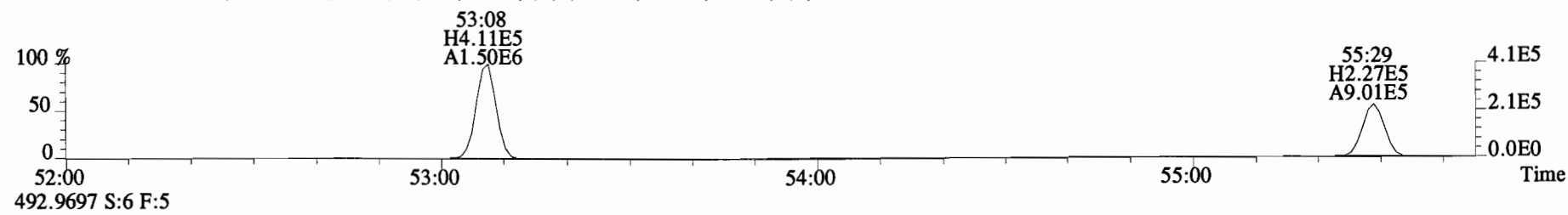
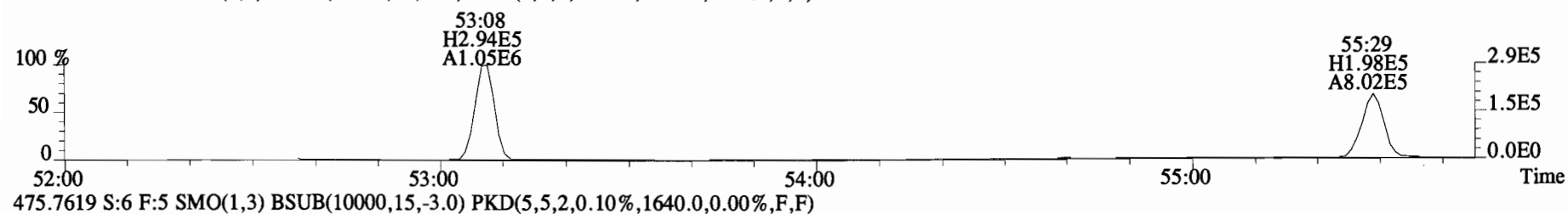
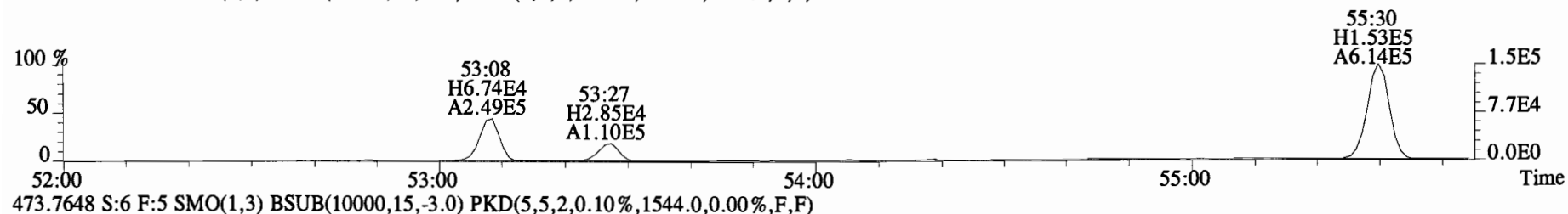
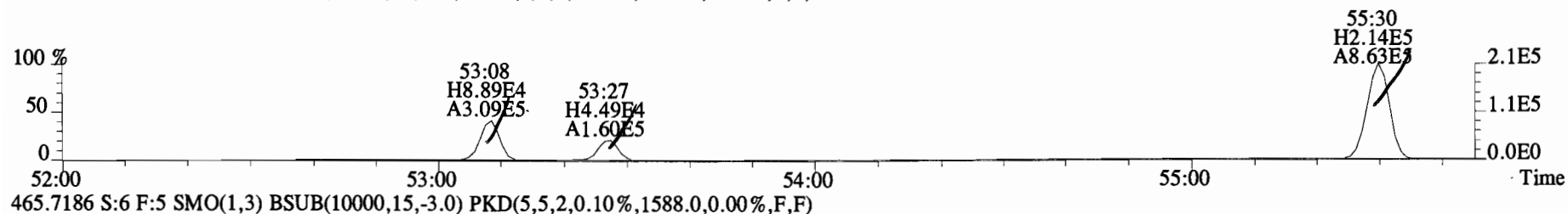
429.7606 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



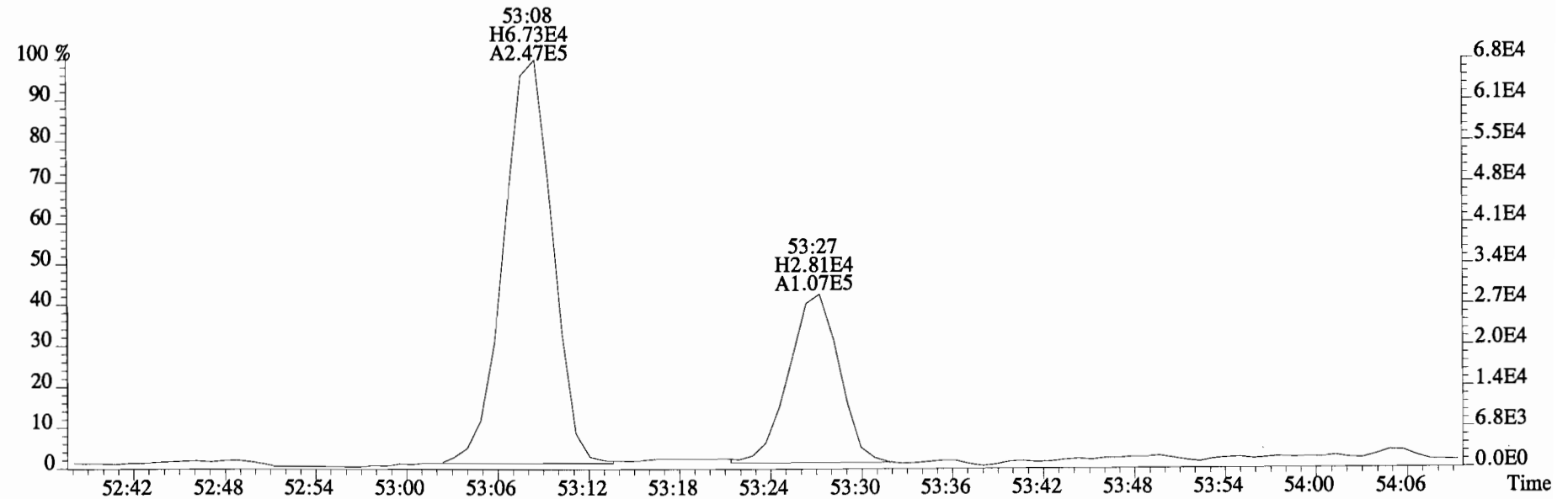
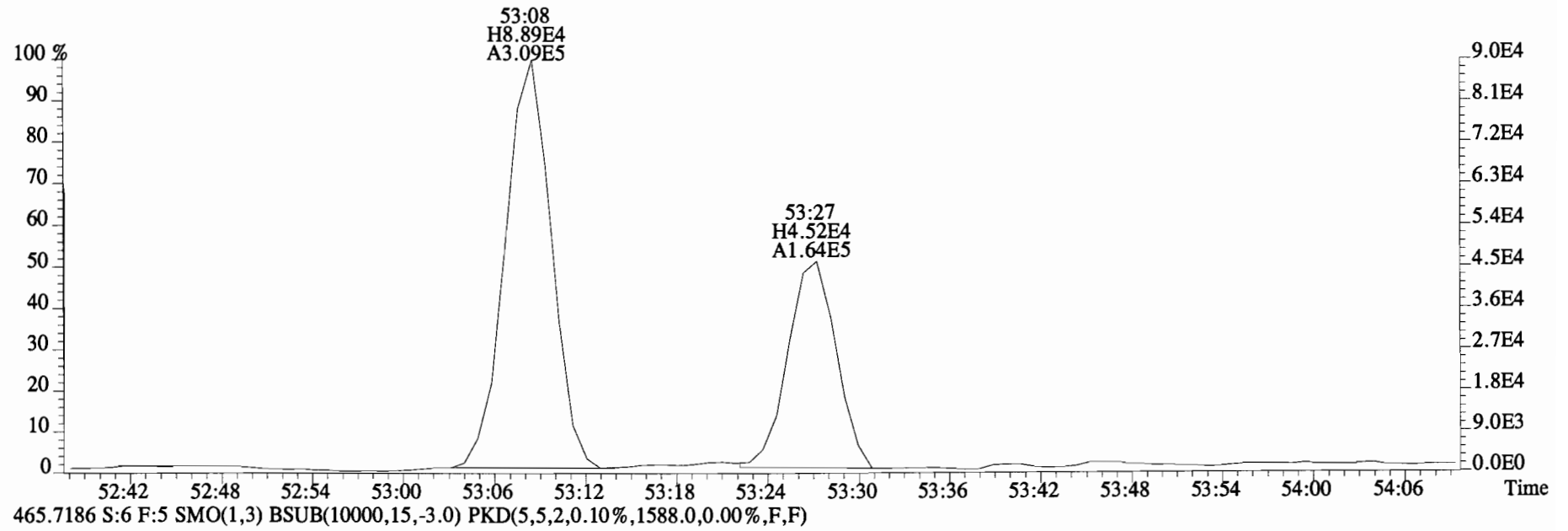
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2448.0,0.00%,F,F)



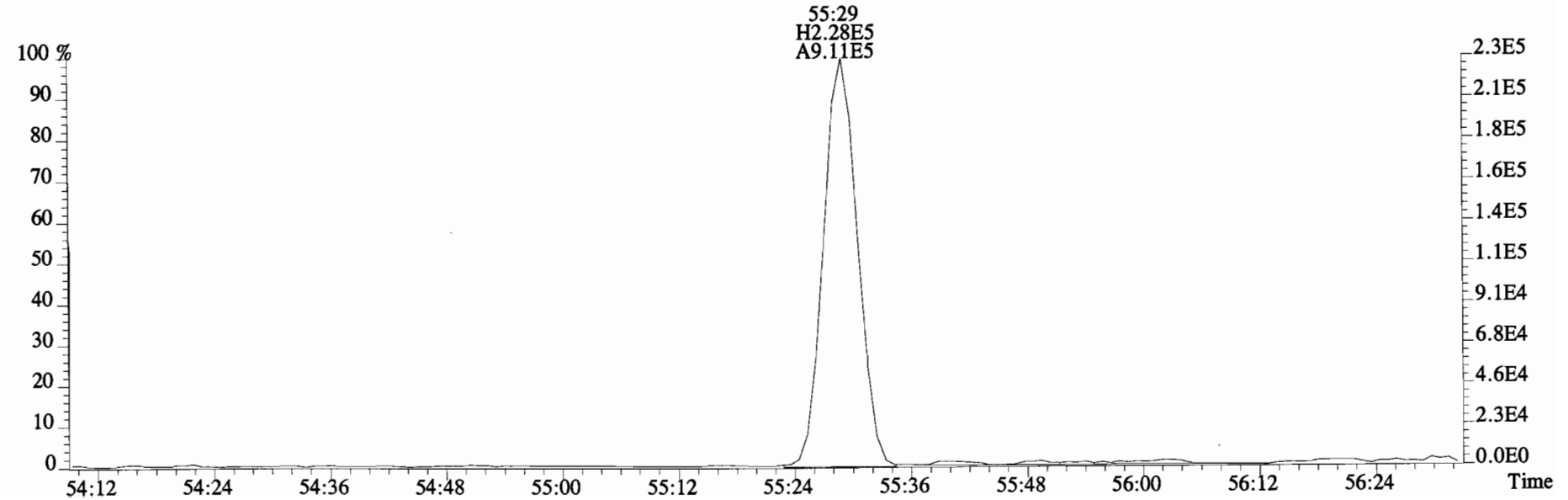
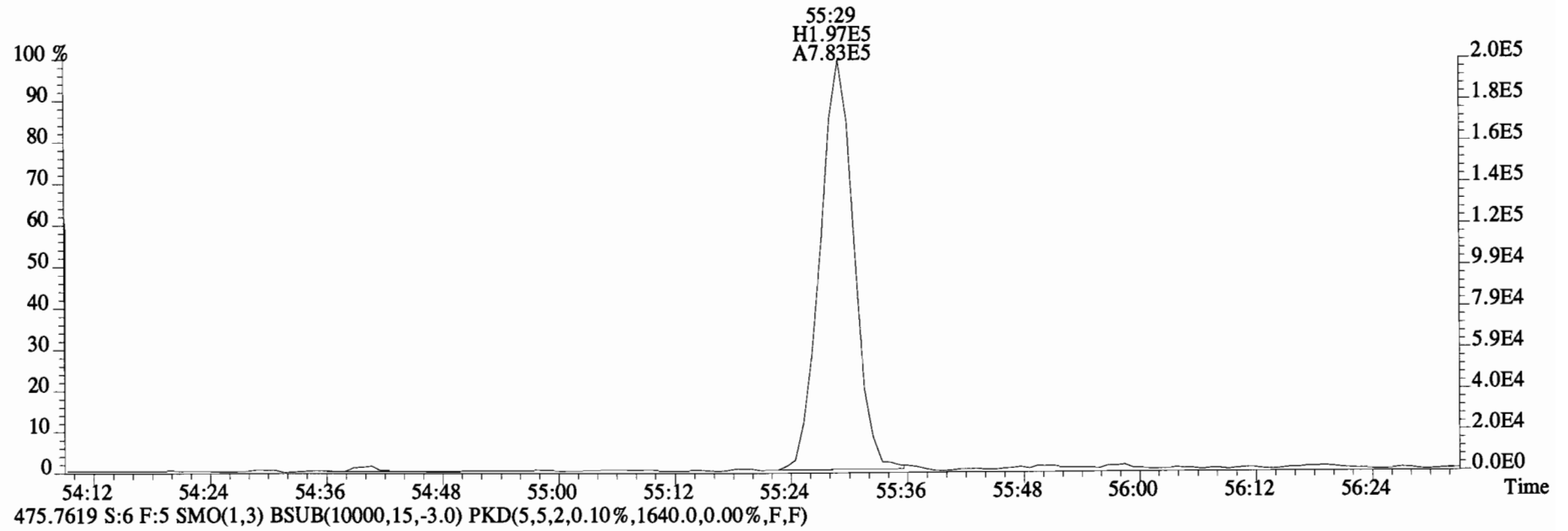
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



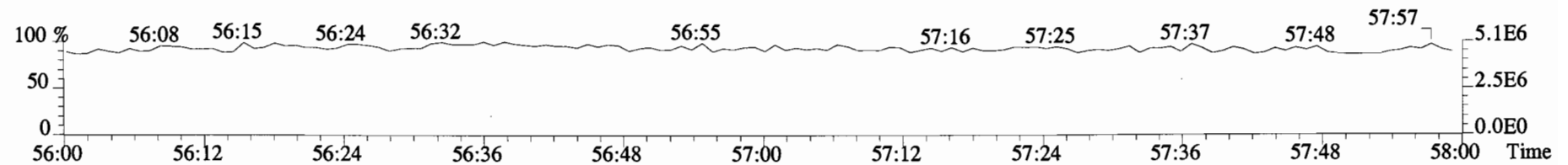
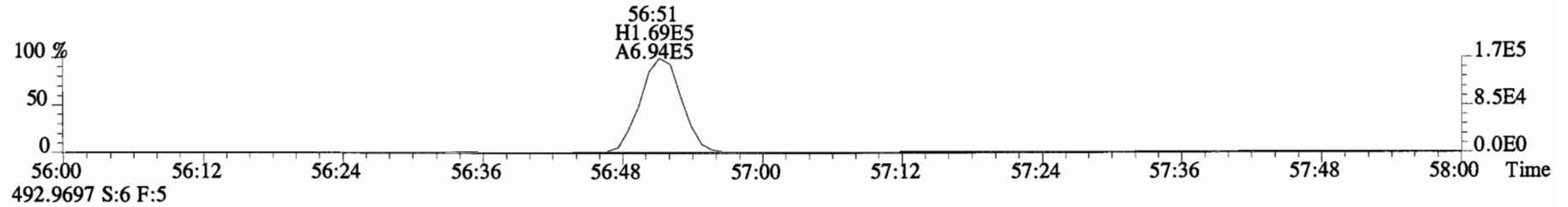
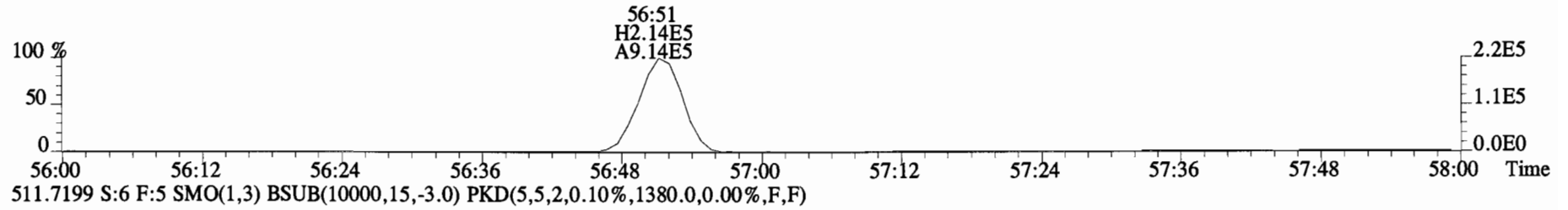
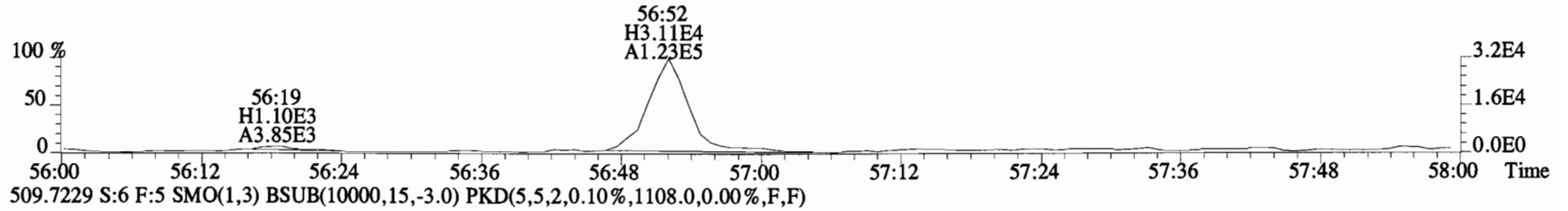
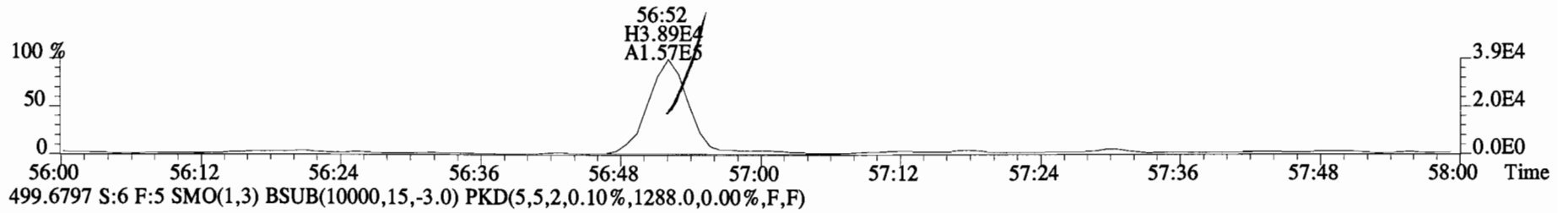
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



File:150319E1 #1-430 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
473.7648 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1544.0,0.00%,F,F)



File:150319E1 #1-430 Acq:19-MAR-2015 18:09:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1@20X SC-CB-24-20141211-S Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1120.0,0.00%,F,F)



Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1

Filename: 150318E1 S:11 Acq:18-MAR-15 20:44:12
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.902

ConCal: ST150318E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	*	n NotF η	1.28	*		3360	2.5	*	*	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.35	*		3360	2.5	*	*	1.000-1.010	
Tetra	PCB-43/49	*	*	n NotF η	0.99	*		3360	2.5	*	*	1.005-1.015	
Tetra	PCB-47	*	*	n NotF η	1.06	*		3360	2.5	*	*	0.996-1.006	
Tetra	PCB-48/75	*	*	n NotF η	1.23	*		3360	2.5	*	*	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.22	*		3360	2.5	*	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF η	1.22	*		3360	2.5	*	*	1.011-1.021	
Tetra	PCB-44	*	*	n NotF η	0.86	*		3360	2.5	*	*	1.021-1.031	
Tetra	PCB-42/59	*	*	n NotF η	1.14	*		3360	2.5	*	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	*	n NotF η	1.21	*		3360	2.5	*	*	1.046-1.056	
Tetra	PCB-68	*	*	n NotF η	1.35	*		3360	2.5	*	*	1.054-1.064	
Tetra	PCB-40	*	*	n NotF η	0.70	*		3360	2.5	*	*	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	0.98	*		3360	2.5	*	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF η	1.11	*		3360	2.5	*	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	0.93	*		3360	2.5	*	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF η	0.95	*		3360	2.5	*	*	0.982-0.992	
Tetra	PCB-74	*	*	n NotF η	1.24	*		3360	2.5	*	*	0.990-1.000	
Tetra	PCB-61/70	*	*	n NotF η	0.95	*		3360	2.5	*	*	0.995-1.005	
Tetra	PCB-76/66	*	*	n NotF η	1.04	*		3360	2.5	*	*	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.19	*		3360	2.5	*	*	0.996-1.006	
Tetra	PCB-55	*	*	n NotF η	1.04	*		3360	2.5	*	*	1.005-1.015	
Tetra	PCB-56/60	*	*	n NotF η	1.01	*		3360	2.5	*	*	1.019-1.029	
Tetra	PCB-79	*	*	n NotF η	1.08	*		3360	2.5	*	*	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.27	*		3360	2.5	*	*	0.982-0.992	
Tetra	PCB-81	*	*	n NotF η	1.33	*		3360	2.5	*	*	0.995-1.005	
Tetra	PCB-77	3.19e+07	0.77	y 39:51	1.10	7140		3360	2.5	19.5	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.18	*		2960	2.5	*	*	0.996-1.006	
Penta	PCB-96	*	*	n NotF η	1.14	*		2960	2.5	*	*	1.034-1.044	
Penta	PCB-103	*	*	n NotF η	0.96	*		2960	2.5	*	*	1.050-1.060	
Penta	PCB-100	*	*	n NotF η	0.94	*		2960	2.5	*	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF η	1.06	*		2960	2.5	*	*	0.980-0.990	
Penta	PCB-95/98/102	*	*	n NotF η	1.22	*		2960	2.5	*	*	0.995-1.005	
Penta	PCB-93	*	*	n NotF η	0.84	*		2960	2.5	*	*	0.997-1.007	
Penta	PCB-88/91	*	*	n NotF η	1.12	*		2960	2.5	*	*	1.005-1.015	
Penta	PCB-121	*	*	n NotF η	1.62	*		2960	2.5	*	*	1.009-1.019	
Penta	PCB-84/92	*	*	n NotF η	1.05	*		2960	2.5	*	*	0.985-0.995	
Penta	PCB-89	*	*	n NotF η	1.13	*		2960	2.5	*	*	0.991-1.001	

Analyst: DM S

Date: 3/27/15

MS
3/27/15

Client ID: SC-CB-24-20141211-S
Lab ID: 1400948-03RE1

Filename: 150318E1 S:11 Acq:18-MAR-15 20:44:12
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.9024 EndCAL: NA

ConCal: ST150318E1-1

Page 10 of

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.27	*	
Total Di-PCB	*	* n	NotFnd	1.21	*	
Total Tri-PCB	*	* n	NotFnd	1.10	*	
Total Tri-PCB	*	* n	NotFnd	1.21	*	Sum:0.00000
Total Tetra-PCB	3.19e+07	0.77 y	39:51	1.09	7140.93	
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	1.45e+06	1.21 y	57:24	1.17	*	

Total PCB Conc:7140.92613000

Integrations

by

Analyst: DMS

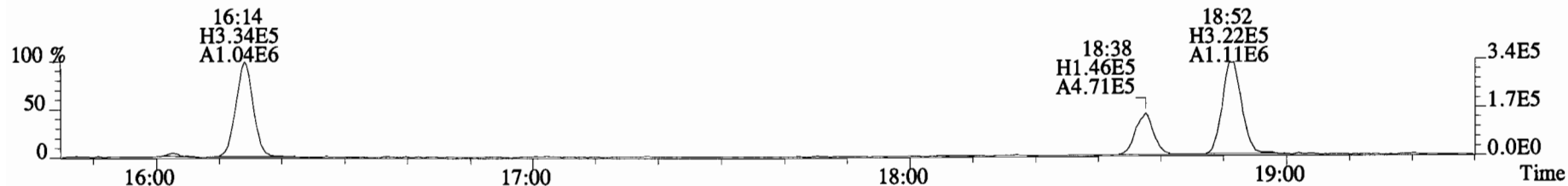
Date: 3/27/15

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	*	0.629-0.635		*	*											
13C-PCB-3	*	* n	0.91	NotFnd	*	0.725-0.733		*	*											
13C-PCB-4	*	* n	0.59	NotFnd	*	0.775-0.783		*	*	13C-PCB-79	5.31e+07	0.79 y	1.02	38:01	1.030	1.023-1.034		9800	92.8	*
13C-PCB-9	*	* n	0.90	NotFnd	*	0.842-0.850		*	*	13C-PCB-178	*	* n	0.61	NotFnd	*	0.979-0.990		*	*	*
13C-PCB-11	*	* n	0.94	NotFnd	*	0.968-0.978		*	*											
13C-PCB-19	*	* n	0.53	NotFnd	*	0.930-0.940		*	*	PS vs. IS										
13C-PCB-28	*	* n	0.93	NotFnd	*	0.999-1.009		*	*	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-32	*	* n	0.80	NotFnd	*	1.040-1.050		*	*	13C-PCB-79	*	* n	1.10	NotFnd	*	0.964-0.974		*	*	*
13C-PCB-37	*	* n	0.84	NotFnd	*	1.131-1.143		*	*	13C-PCB-178	*	* n	0.90	NotFnd	*	0.920-0.930		*	*	*
13C-PCB-47	*	* n	0.81	NotFnd	*	0.866-0.874		*	*											
13C-PCB-52	*	* n	0.77	NotFnd	*	0.853-0.861		*	*											
13C-PCB-54	*	* n	0.97	NotFnd	*	0.758-0.766		*	*											
13C-PCB-70	*	* n	1.00	NotFnd	*	0.961-0.971		*	*											
13C-PCB-77	4.26e+07	0.83 y	0.94	39:50	1.079	1.073-1.083		8500	80.8											
13C-PCB-80	*	* n	1.03	NotFnd	*	0.972-0.982		*	*											
13C-PCB-81	*	* n	0.92	NotFnd	*	1.057-1.067		*	*											
13C-PCB-95	*	* n	0.74	NotFnd	*	0.908-0.918		*	*	RS										
13C-PCB-97	*	* n	0.70	NotFnd	*	0.984-0.994		*	*	Name	Resp	RA	RRF	RT	Conc					
13C-PCB-101	*	* n	0.78	NotFnd	*	0.951-0.961		*	*	13C-PCB-15	1.24e+08	1.61 y	1.00	26:04	10500					
13C-PCB-104	*	* n	1.00	NotFnd	*	0.828-0.836		*	*	13C-PCB-31	6.24e+07	1.00 y	1.00	29:07	10500					
13C-PCB-105	*	* n	1.37	NotFnd	*	0.924-0.934		*	*	13C-PCB-60	5.60e+07	0.80 y	1.00	36:55	10500					
13C-PCB-114	*	* n	1.36	NotFnd	*	0.905-0.915		*	*	13C-PCB-111	*	* n	1.00	NotFnd	*					
13C-PCB-118	*	* n	0.96	NotFnd	*	1.054-1.064		*	*	13C-PCB-128	2.44e+07	1.30 y	1.00	46:23	10500					
13C-PCB-123	*	* n	0.89	NotFnd	*	1.050-1.060		*	*	13C-PCB-205	6.47e+06	0.86 y	1.00	54:11	10500					
13C-PCB-126	*	* n	1.31	NotFnd	*	0.972-0.982		*	*											
13C-PCB-127	*	* n	1.47	NotFnd	*	0.931-0.941		*	*											
13C-PCB-138	*	* n	1.10	NotFnd	*	0.961-0.971		*	*											
13C-PCB-141	*	* n	1.07	NotFnd	*	0.943-0.953		*	*											
13C-PCB-153	*	* n	1.15	NotFnd	*	0.927-0.937		*	*											
13C-PCB-155	*	* n	0.84	NotFnd	*	0.939-0.949		*	*											
13C-PCB-156	*	* n	1.30	NotFnd	*	1.032-1.042		*	*											
13C-PCB-157	*	* n	1.36	NotFnd	*	1.038-1.048		*	*											
13C-PCB-159	*	* n	1.25	NotFnd	*	0.989-0.999		*	*											
13C-PCB-167	*	* n	1.35	NotFnd	*	1.004-1.014		*	*											
13C-PCB-169	*	* n	1.29	NotFnd	*	1.083-1.093		*	*											
13C-PCB-170	*	* n	0.54	NotFnd	*	1.089-1.101		*	*											
13C-PCB-180	*	* n	0.68	NotFnd	*	1.060-1.070		*	*											
13C-PCB-188	*	* n	0.92	NotFnd	*	0.919-0.929		*	*											
13C-PCB-189	*	* n	0.72	NotFnd	*	1.120-1.132		*	*											
13C-PCB-194	*	* n	0.80	NotFnd	*	0.990-1.000		*	*											
13C-PCB-202	*	* n	0.84	NotFnd	*	1.036-1.046		*	*											
13C-PCB-206	*	* n	0.65	NotFnd	*	1.021-1.031		*	*											
13C-PCB-208	*	* n	1.08	NotFnd	*	0.976-0.986		*	*											
13C-PCB-209	*	* n	0.61	NotFnd	*	1.045-1.055		*	*											

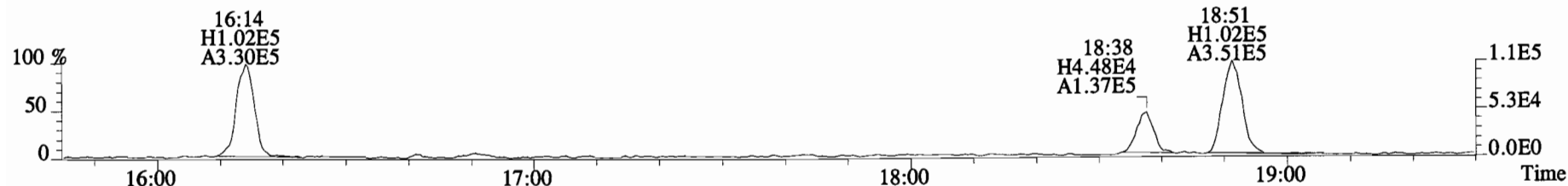
Analyst: *DMS*

Date: *3/27/15*

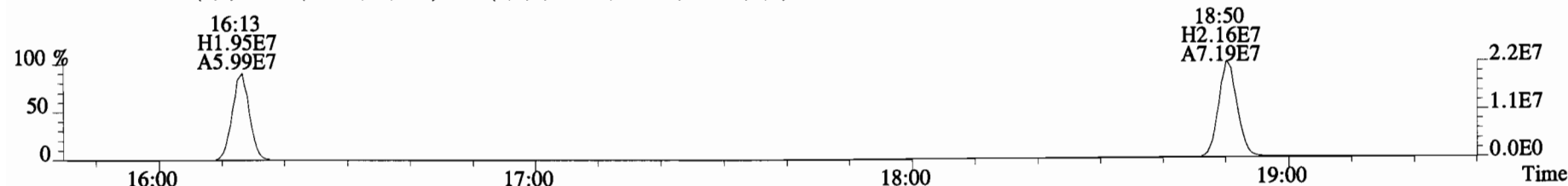
File:150318E1 #1-867 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
188.0393 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4944.0,0.00%,F,F)



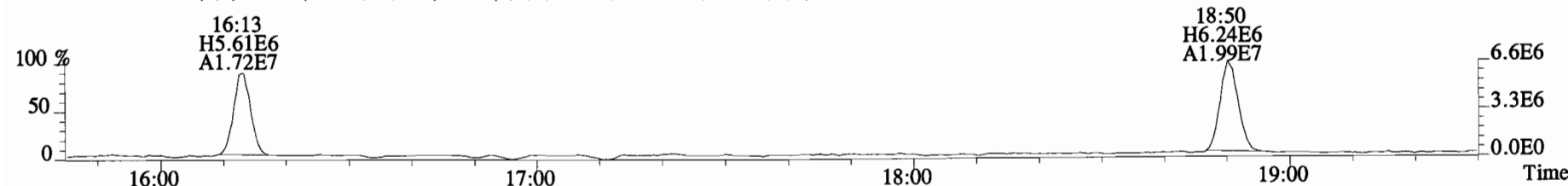
190.0363 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3480.0,0.00%,F,F)



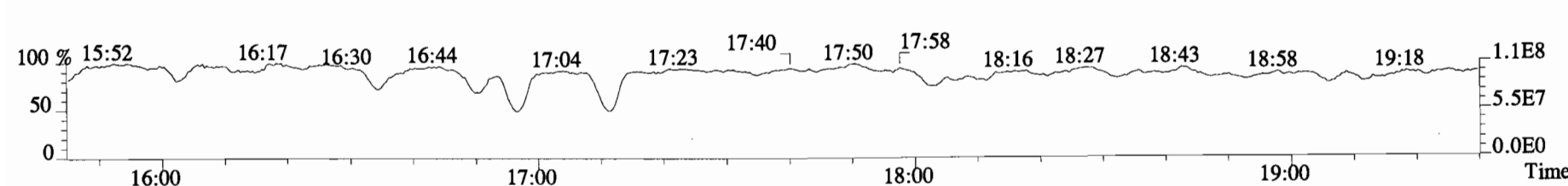
200.0795 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7296.0,0.00%,F,F)



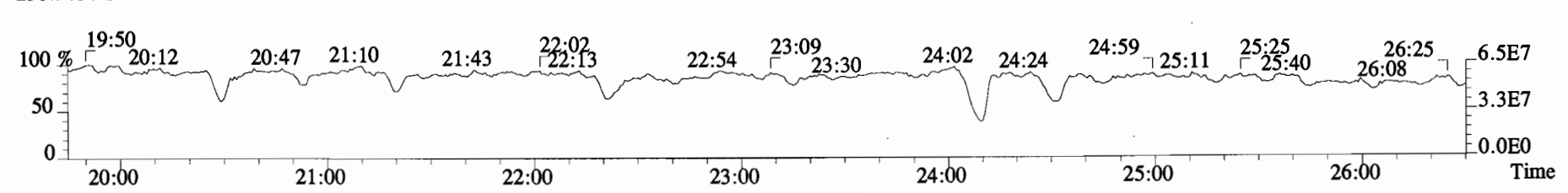
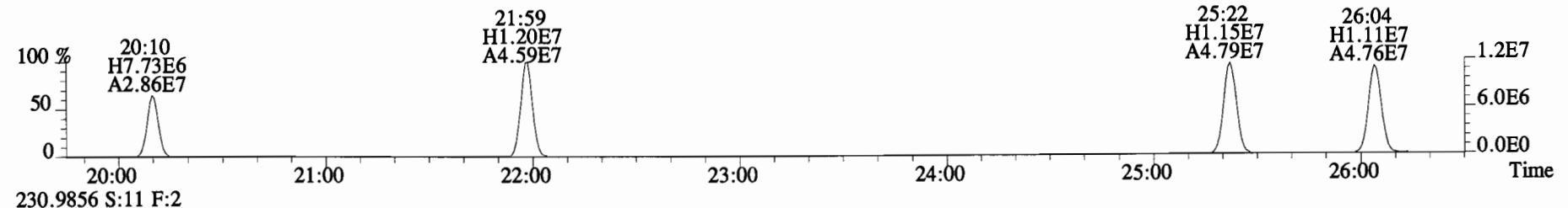
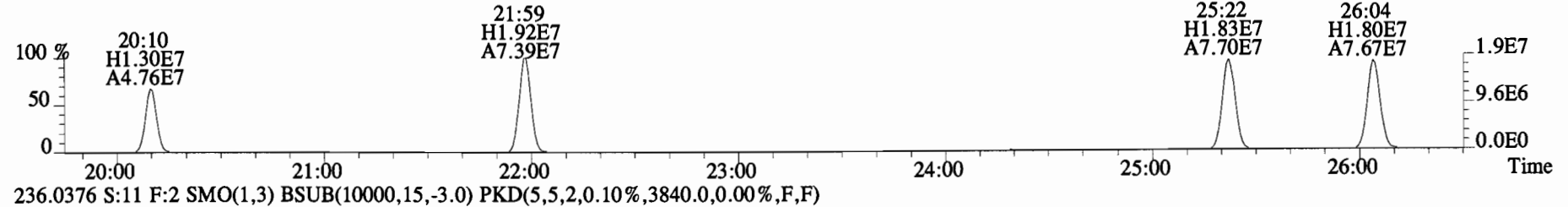
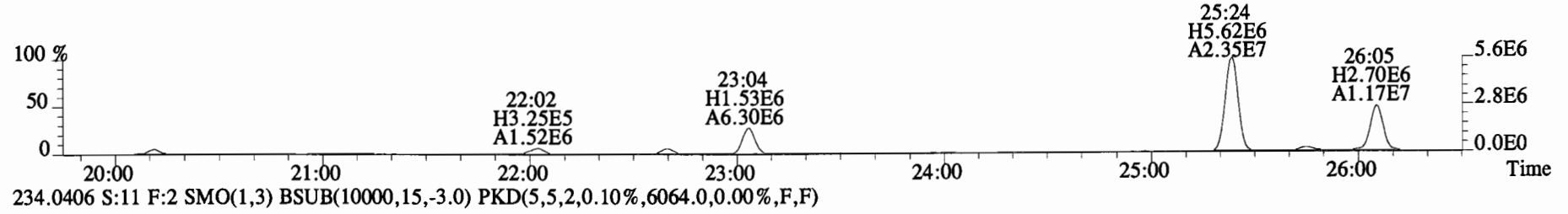
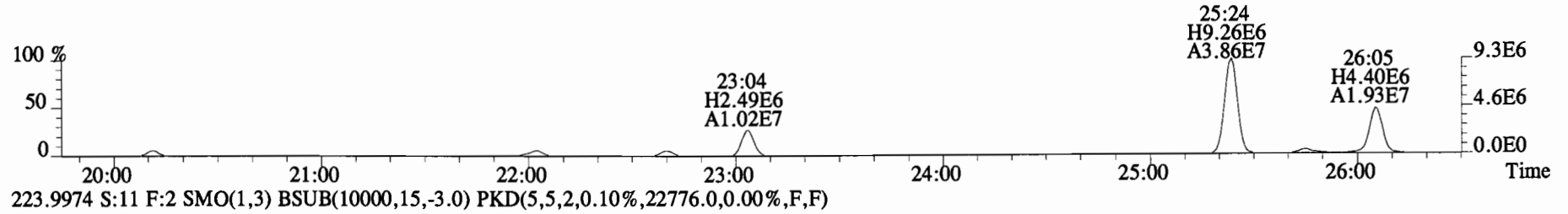
202.0766 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,345660.0,0.00%,F,F)



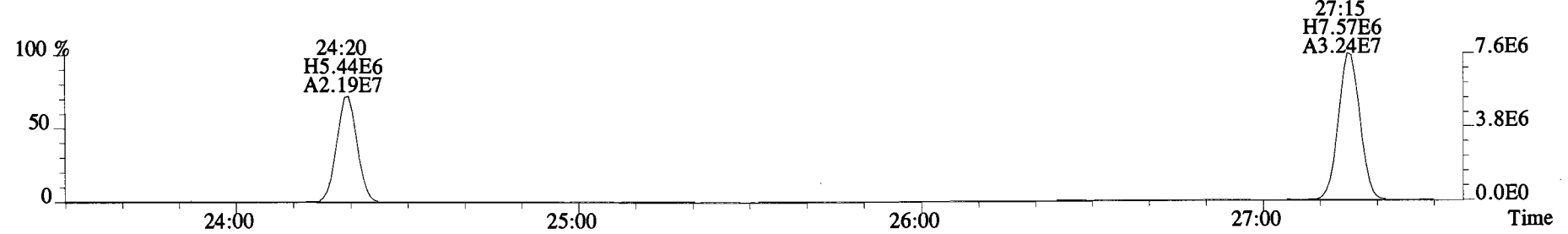
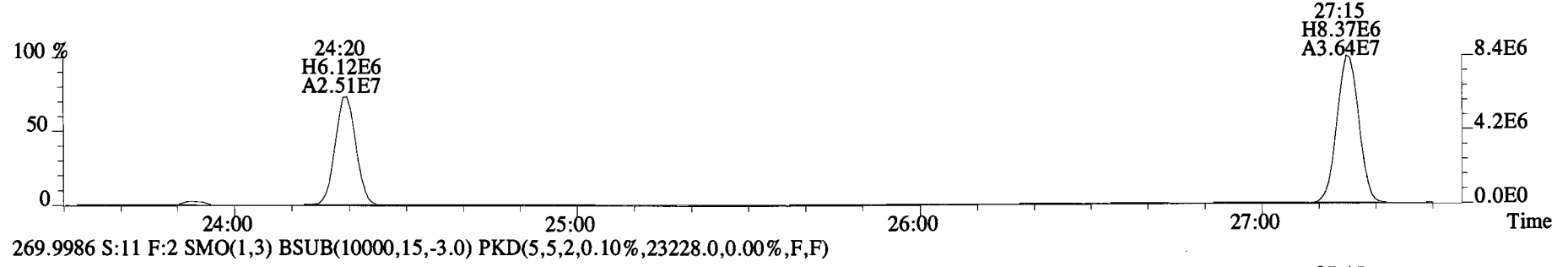
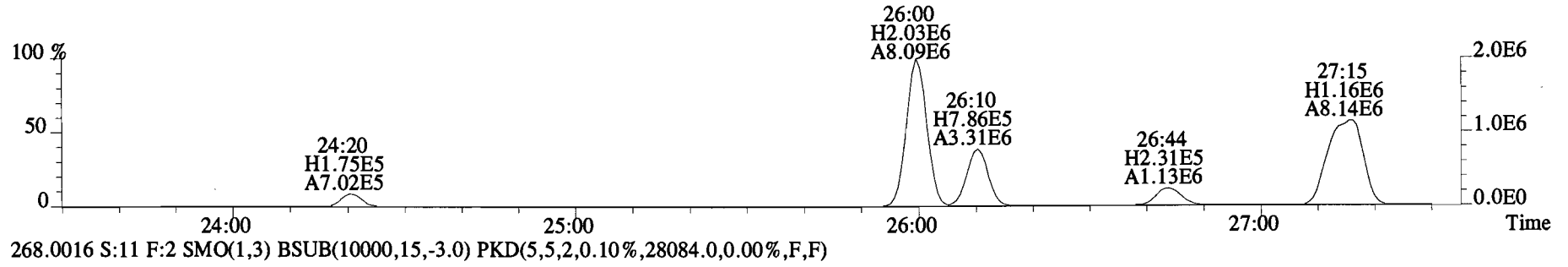
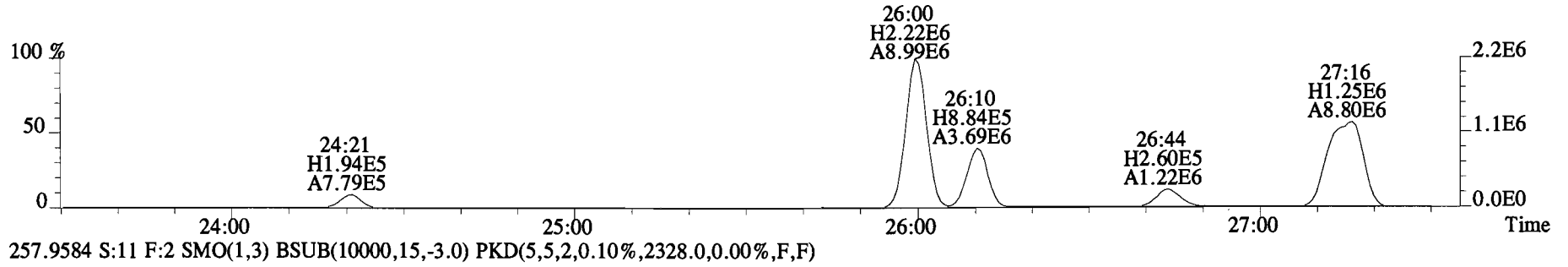
180.9880 S:11



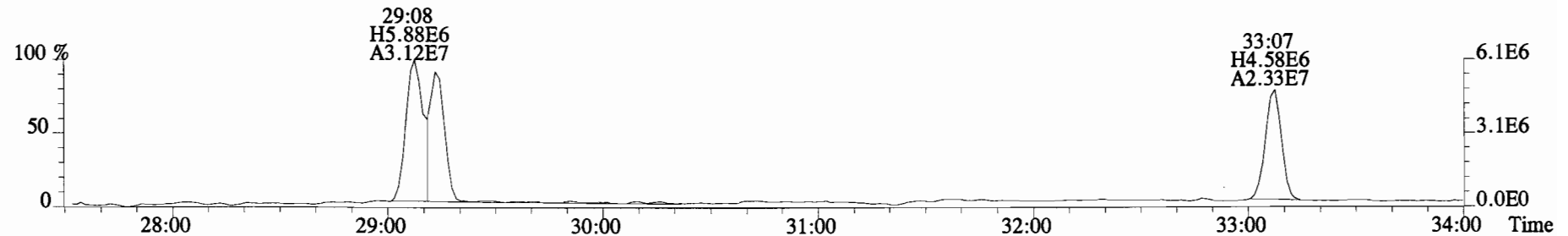
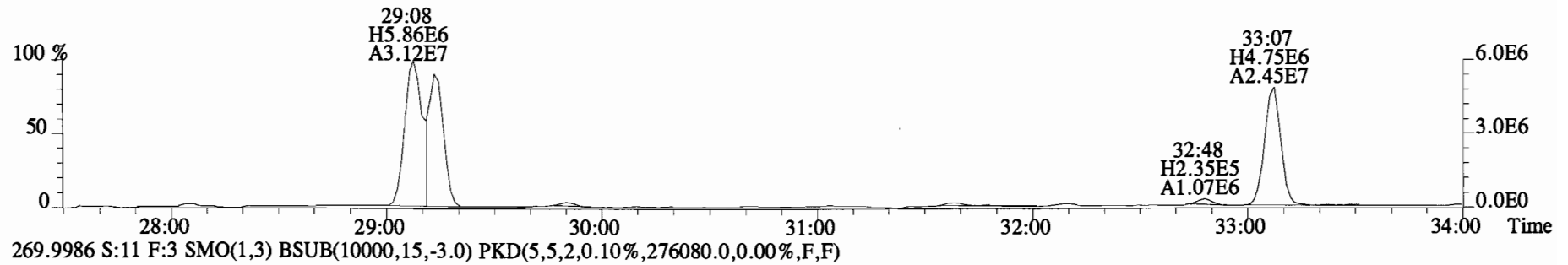
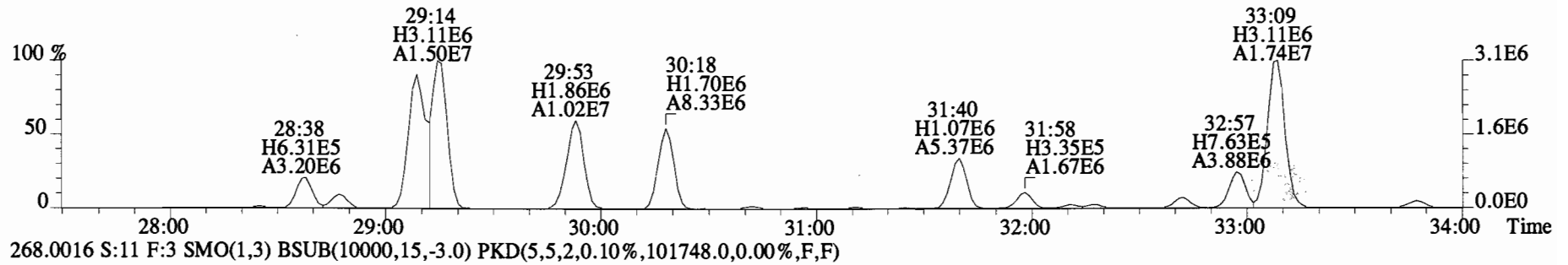
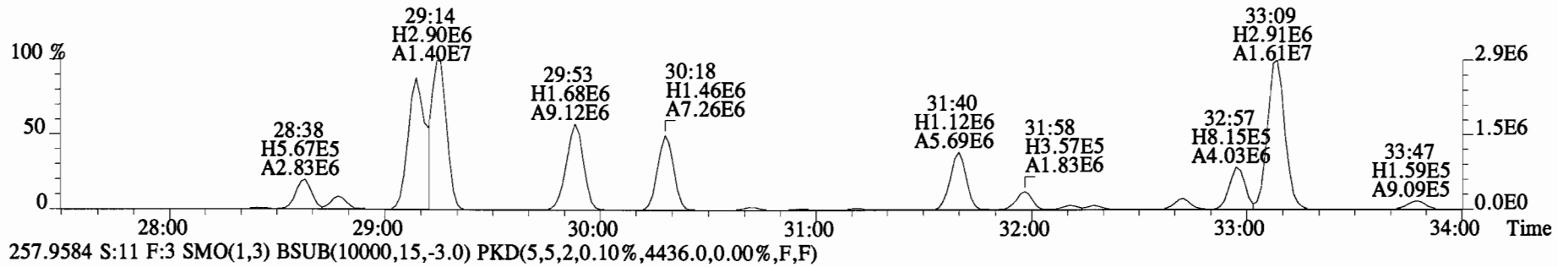
File:150318E1 #1-757 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
 222.0003 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5316.0,0.00%,F,F)



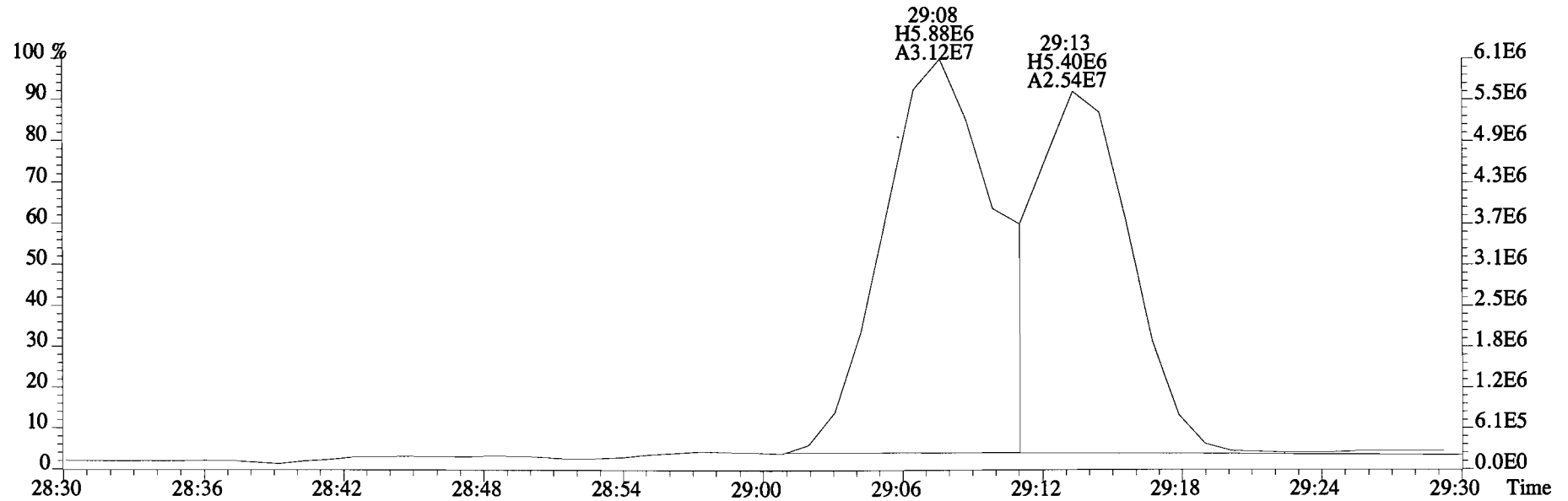
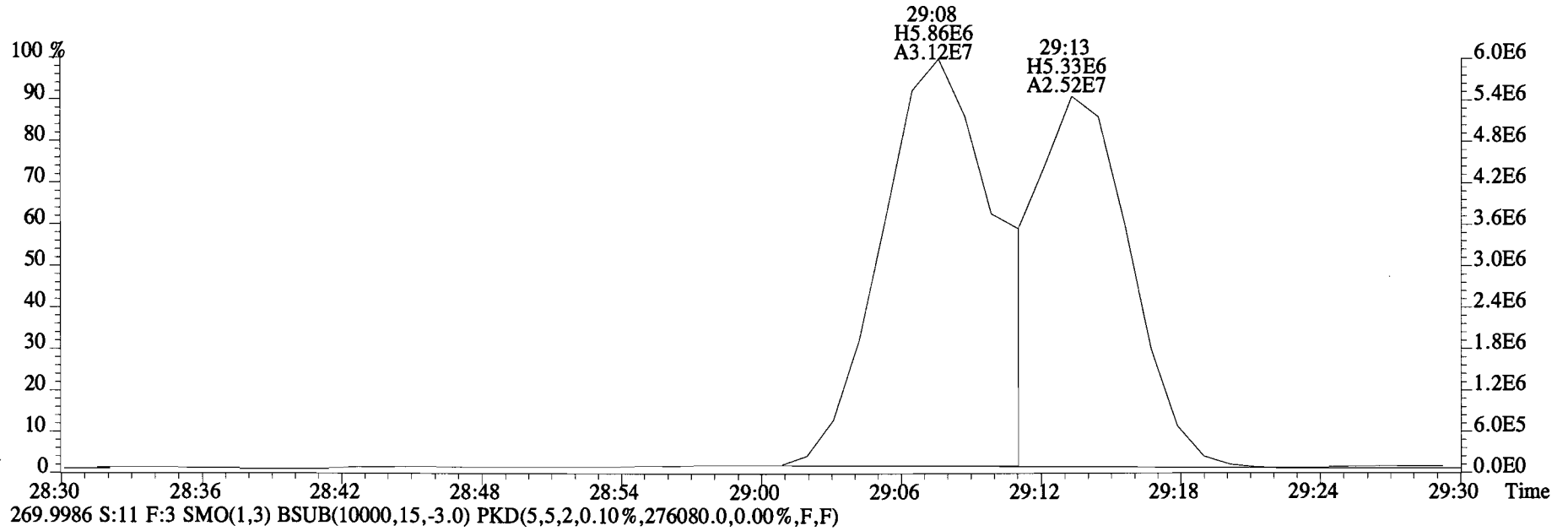
File:150318E1 #1-757 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
255.9613 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4580.0,0.00%,F,F)



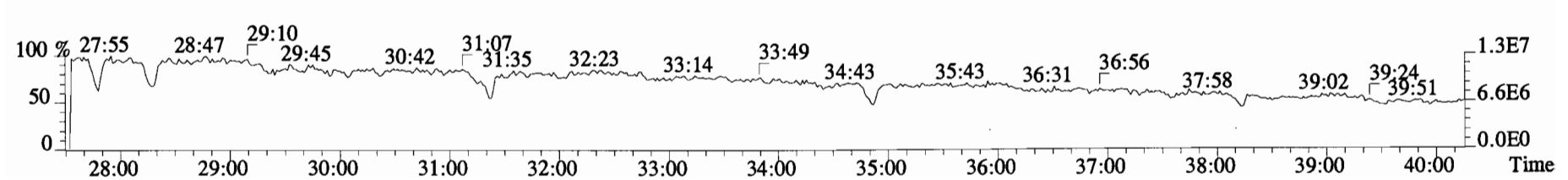
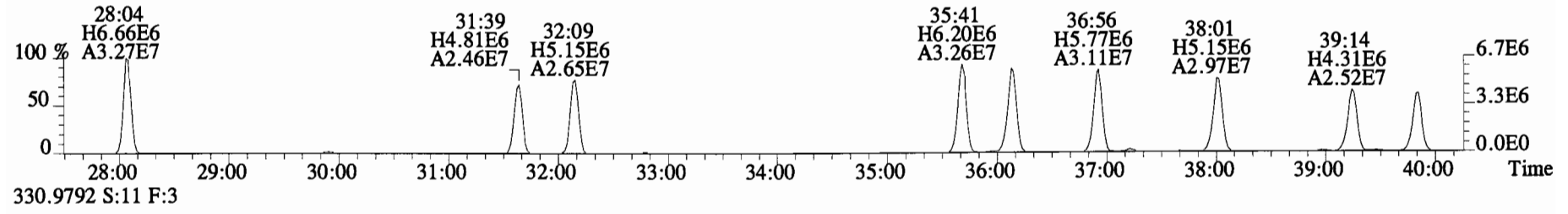
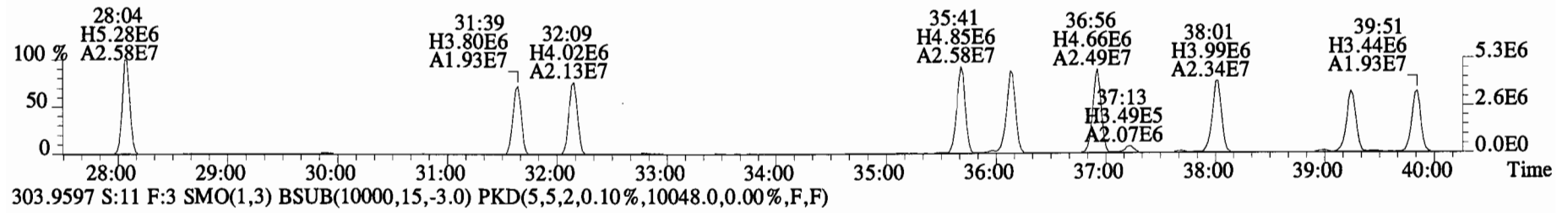
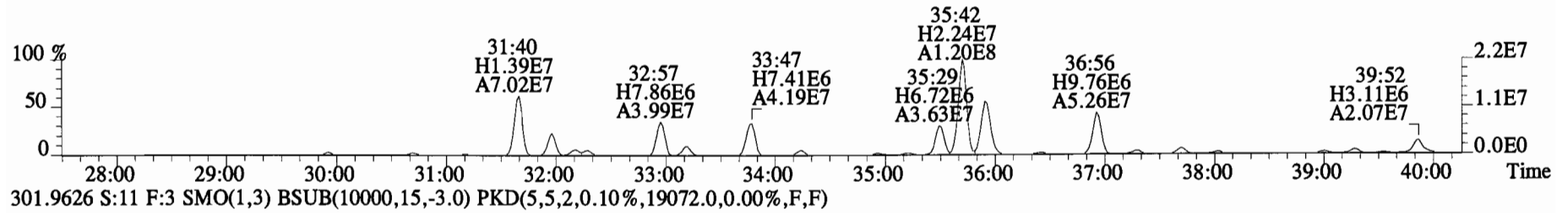
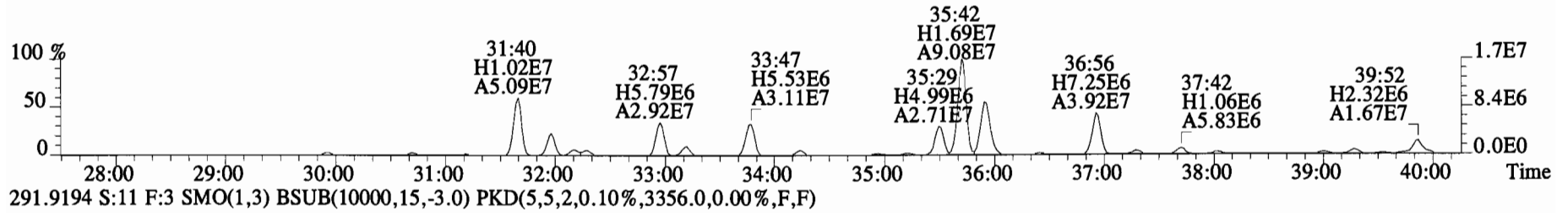
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
255.9613 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5136.0,0.00%,F,F)



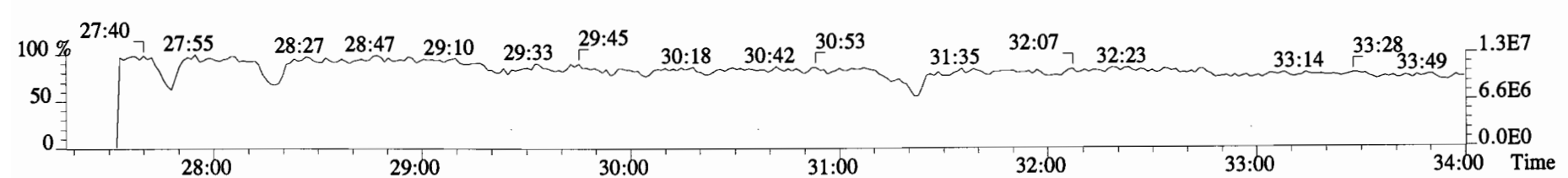
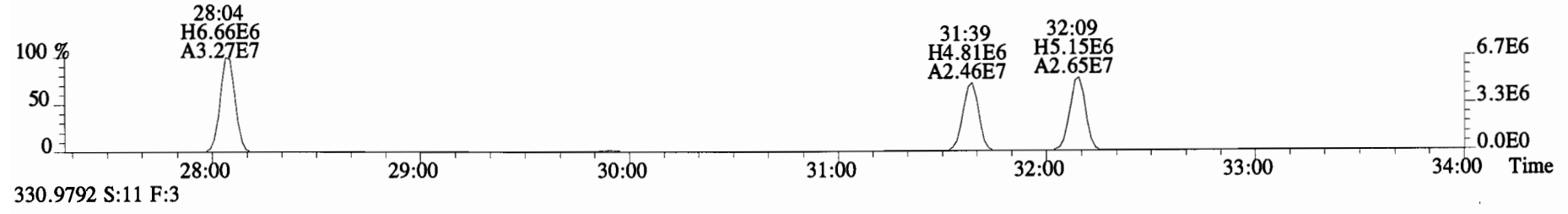
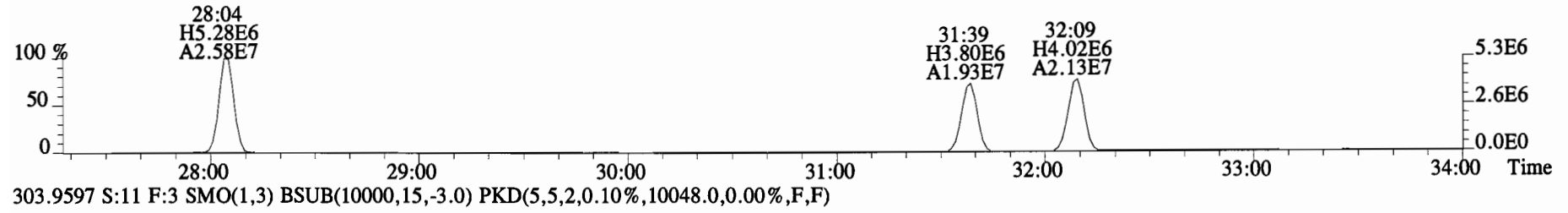
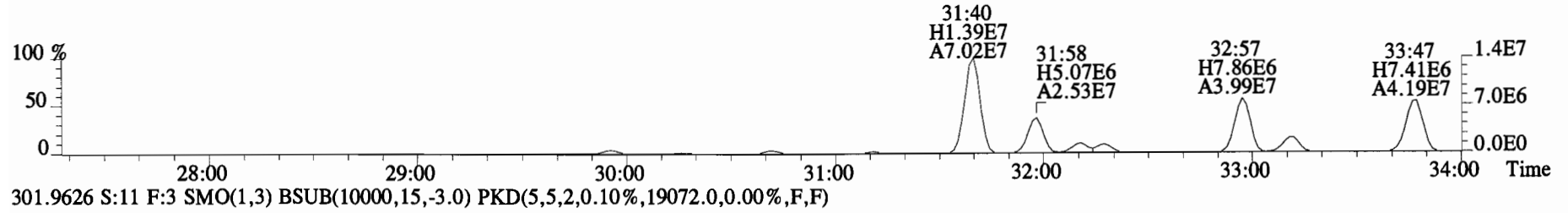
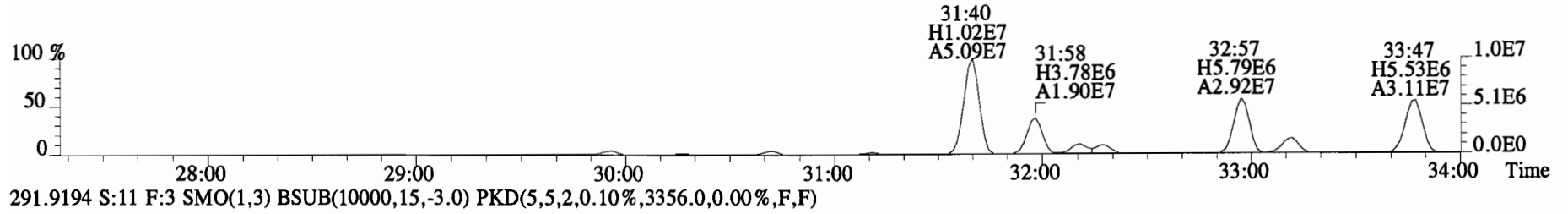
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
268.0016 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,101748.0,0.00%,F,F)



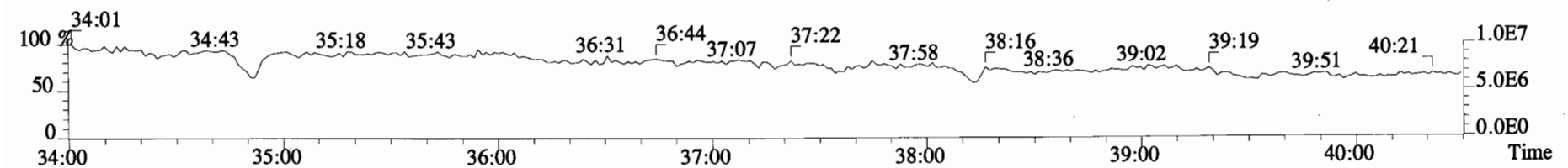
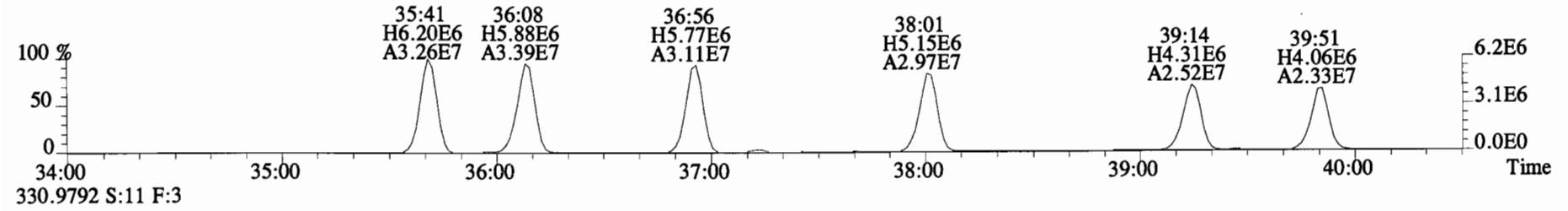
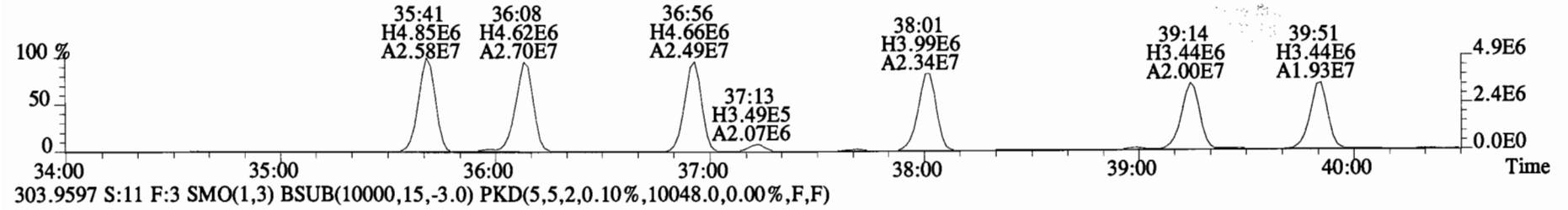
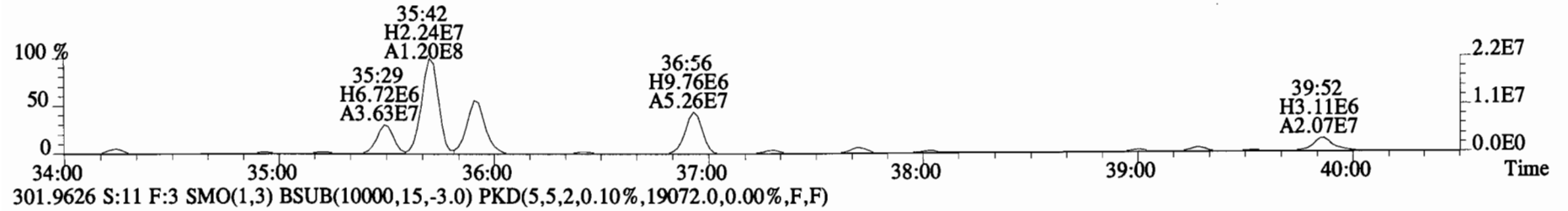
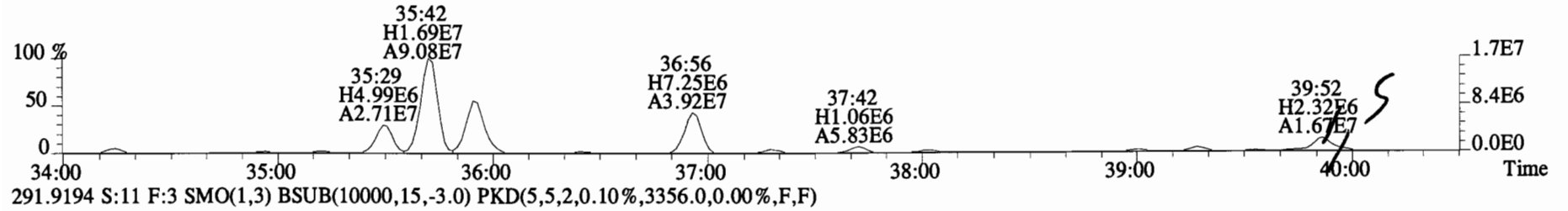
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2344.0,0.00%,F,F)



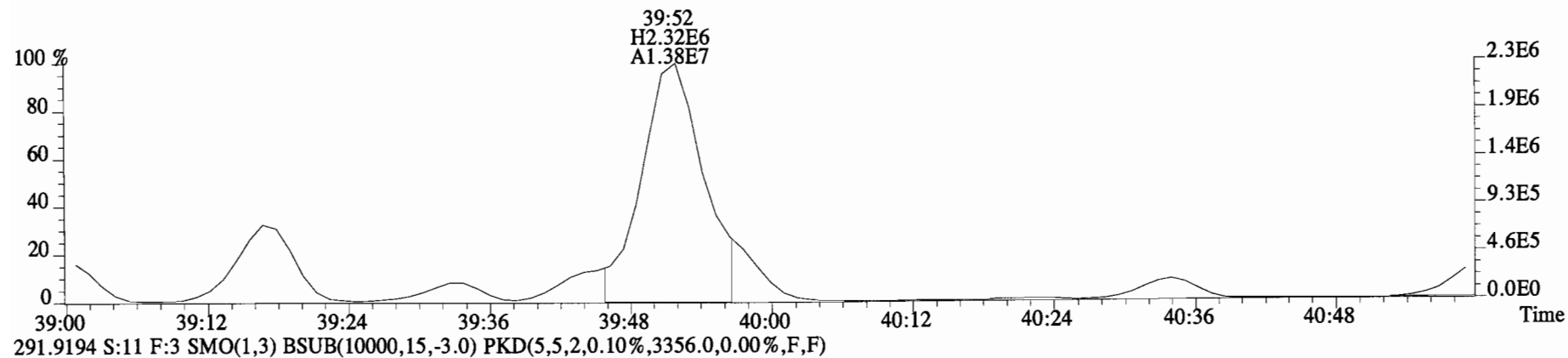
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
 289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2344.0,0.00%,F,F)



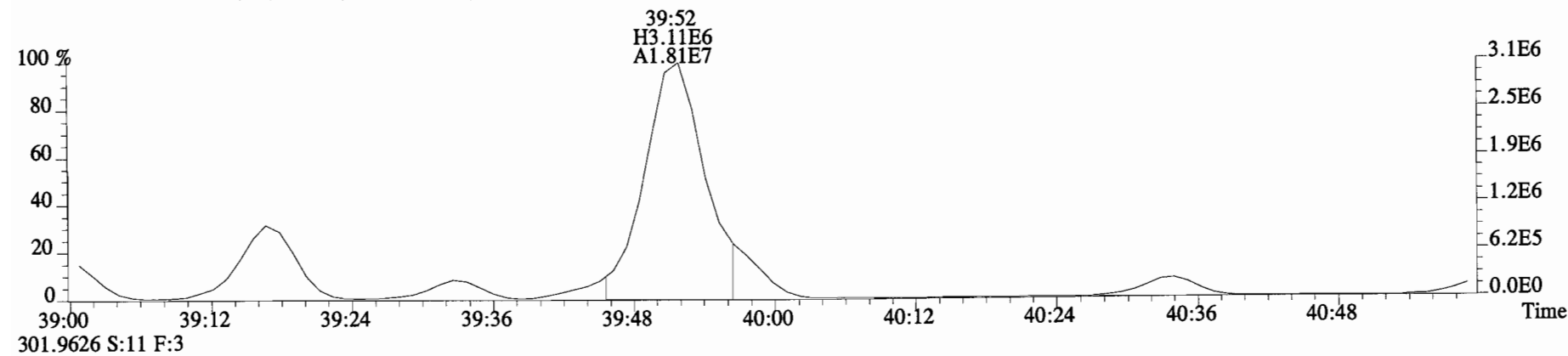
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
 289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2344.0,0.00%,F,F)



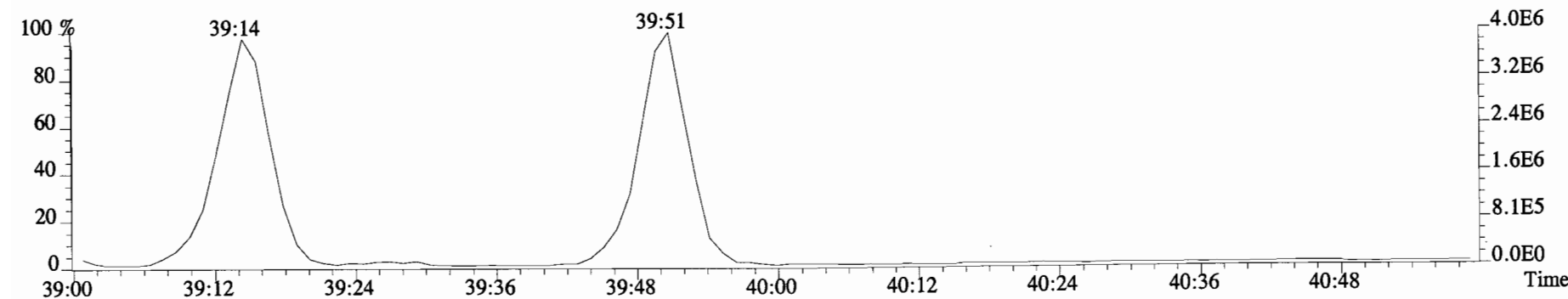
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2344.0,0.00%,F,F)



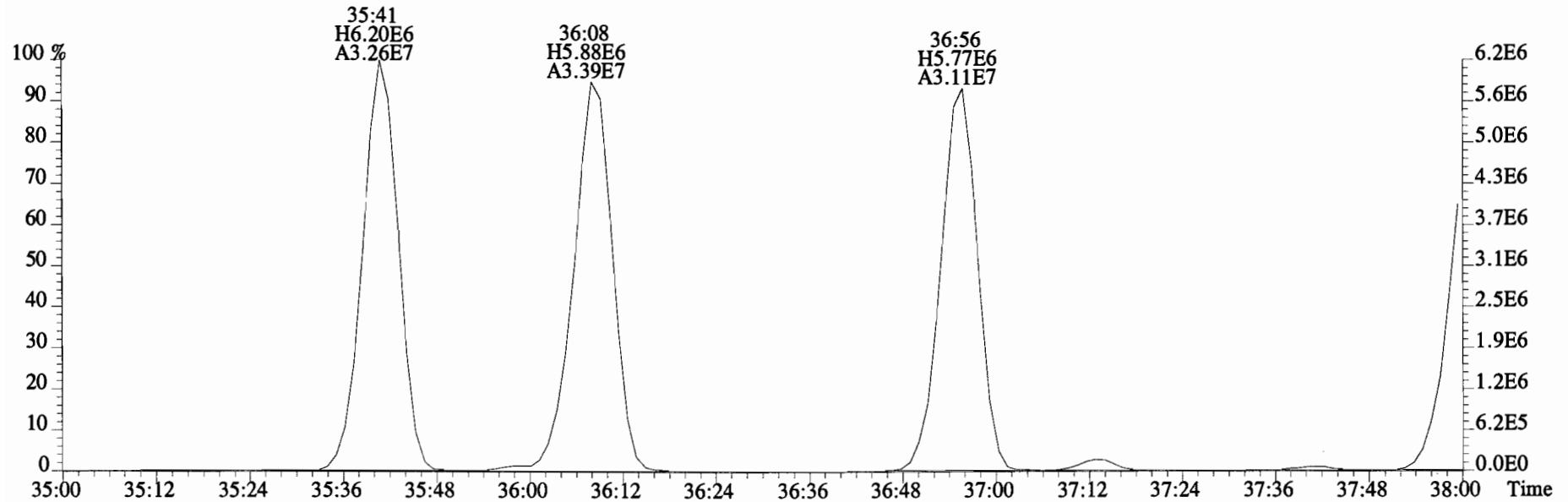
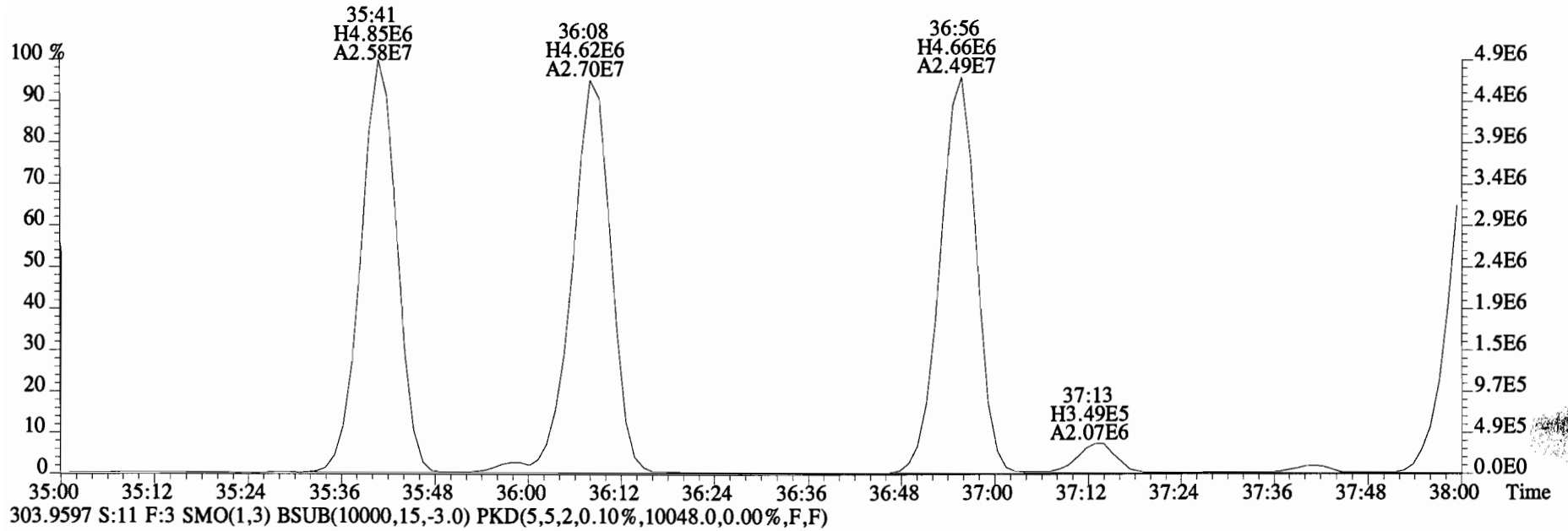
291.9194 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3356.0,0.00%,F,F)



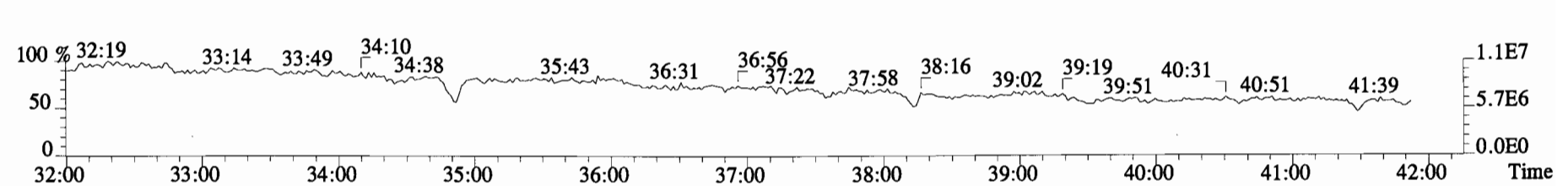
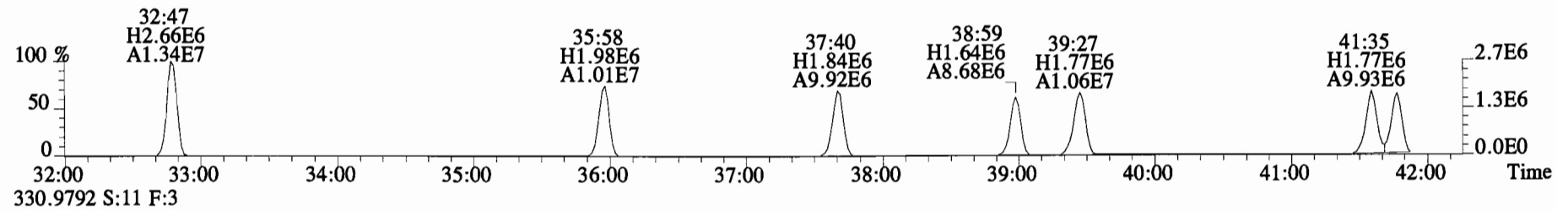
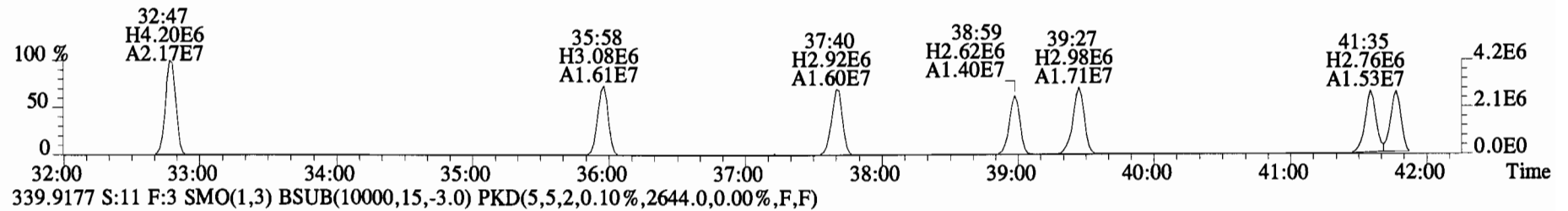
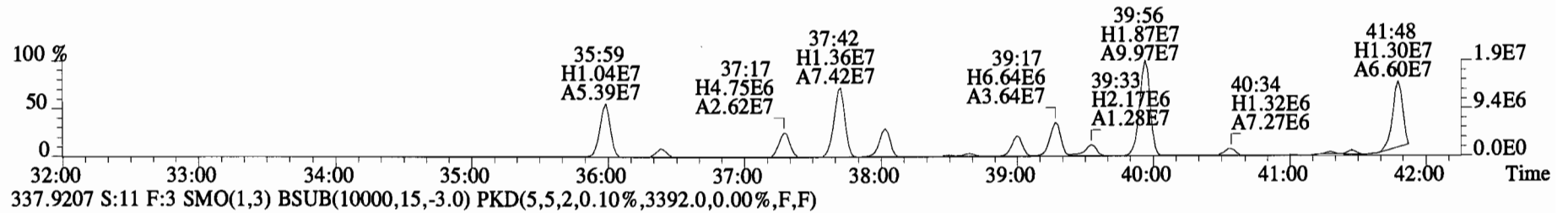
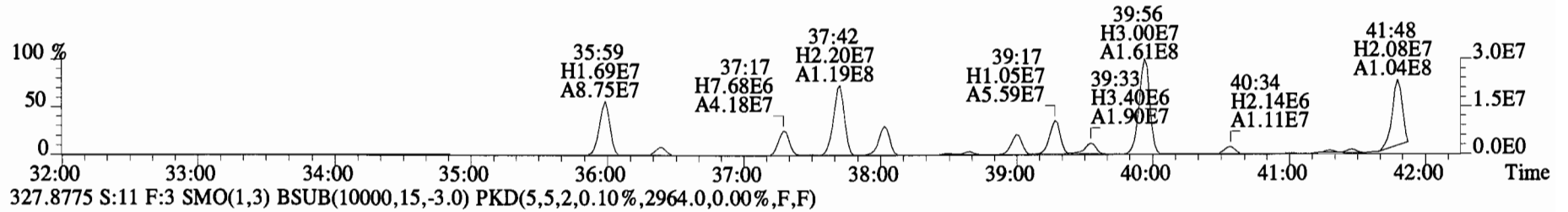
301.9626 S:11 F:3



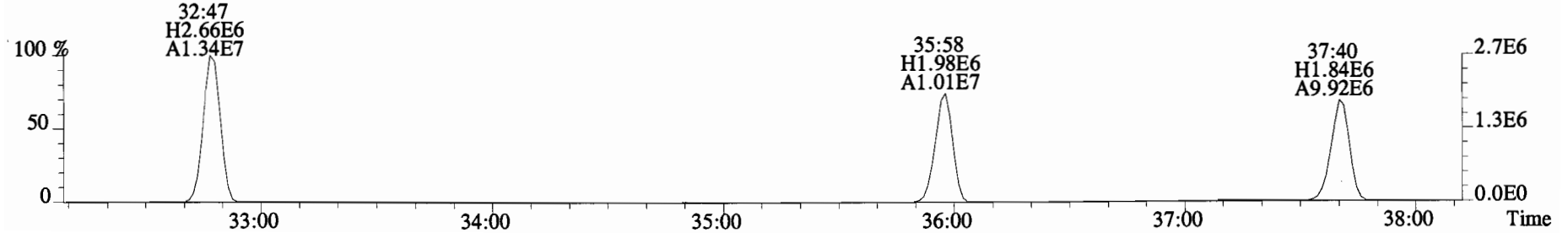
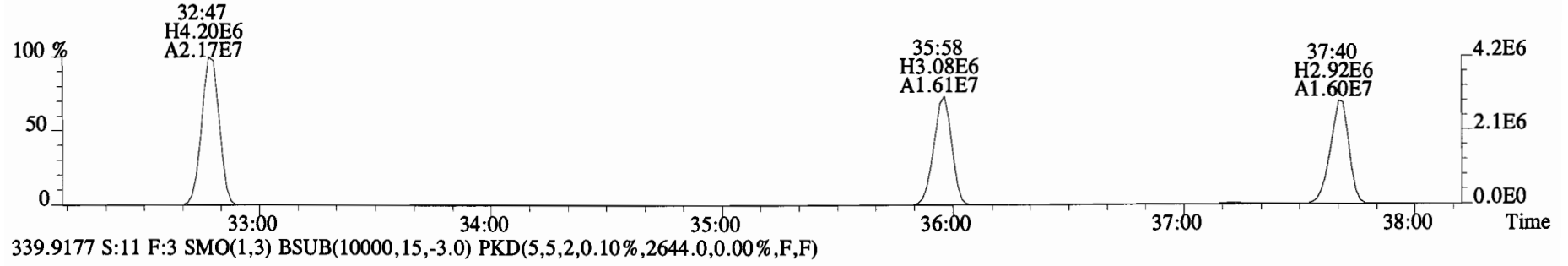
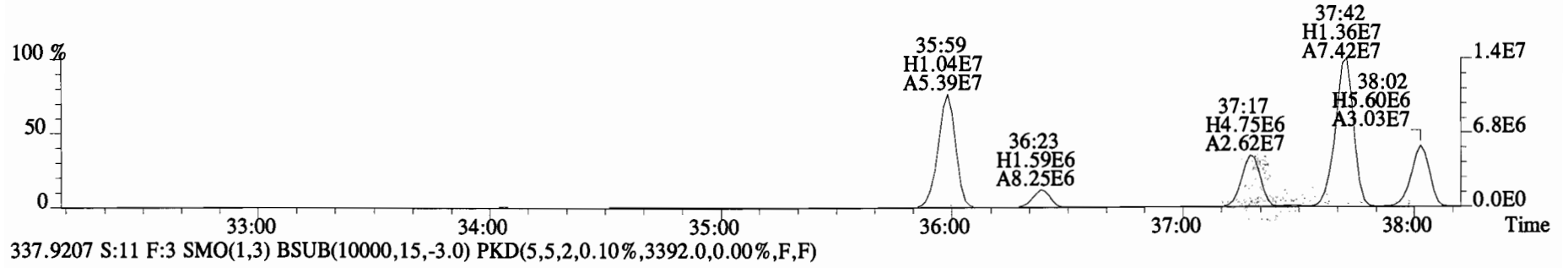
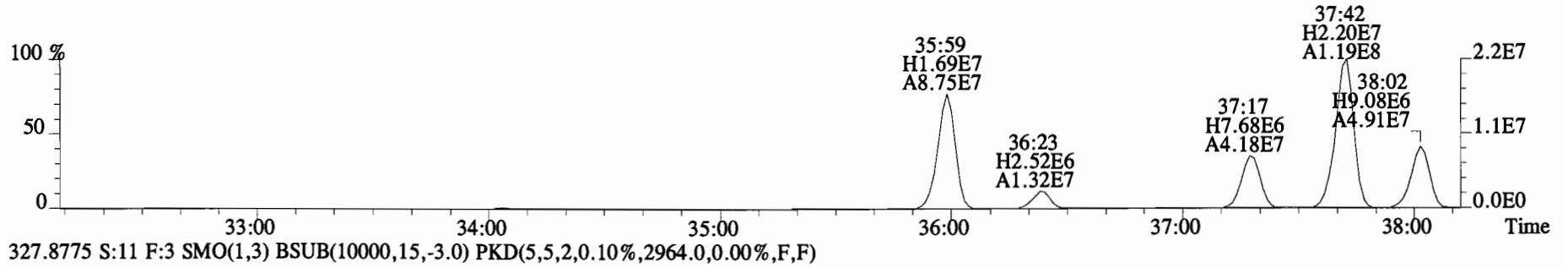
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
301.9626 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,19072.0,0.00%,F,F)



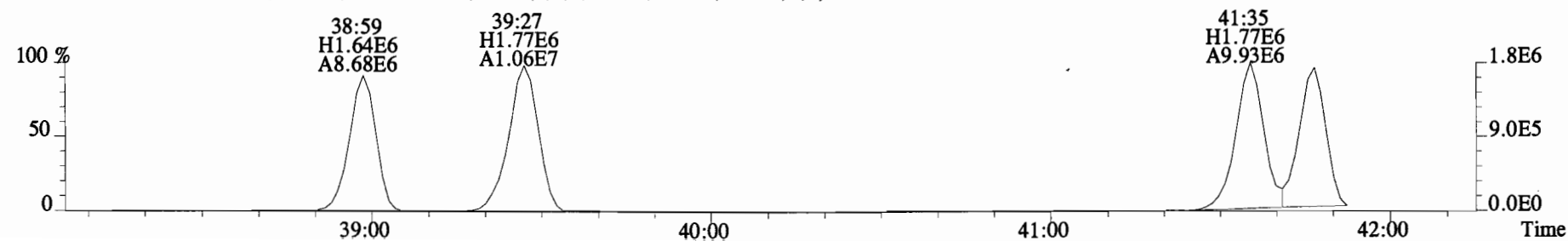
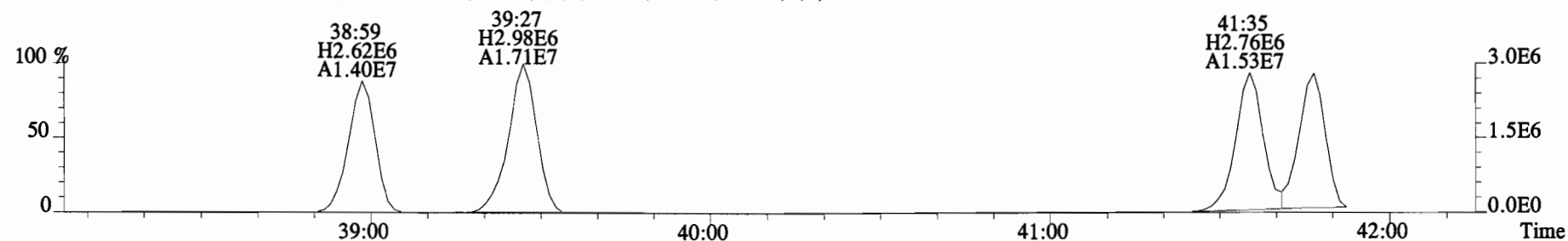
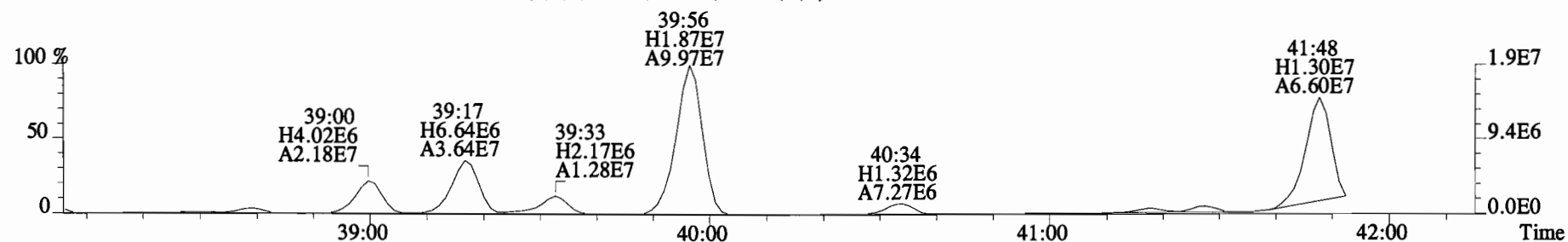
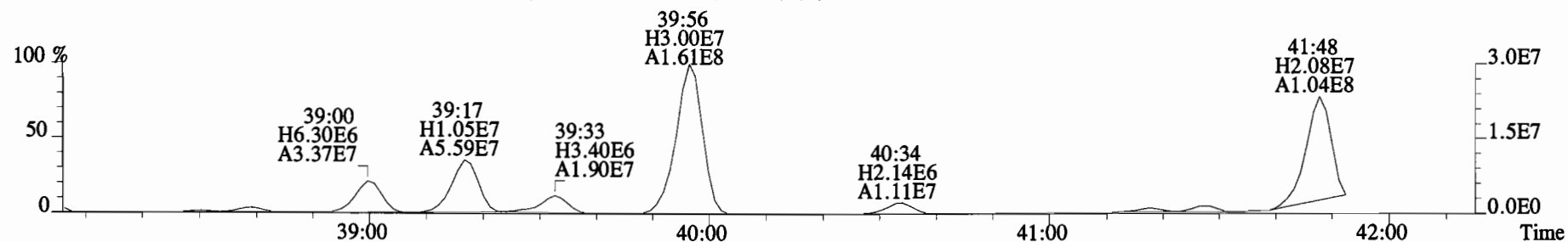
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
 325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4732.0,0.00%,F,F)



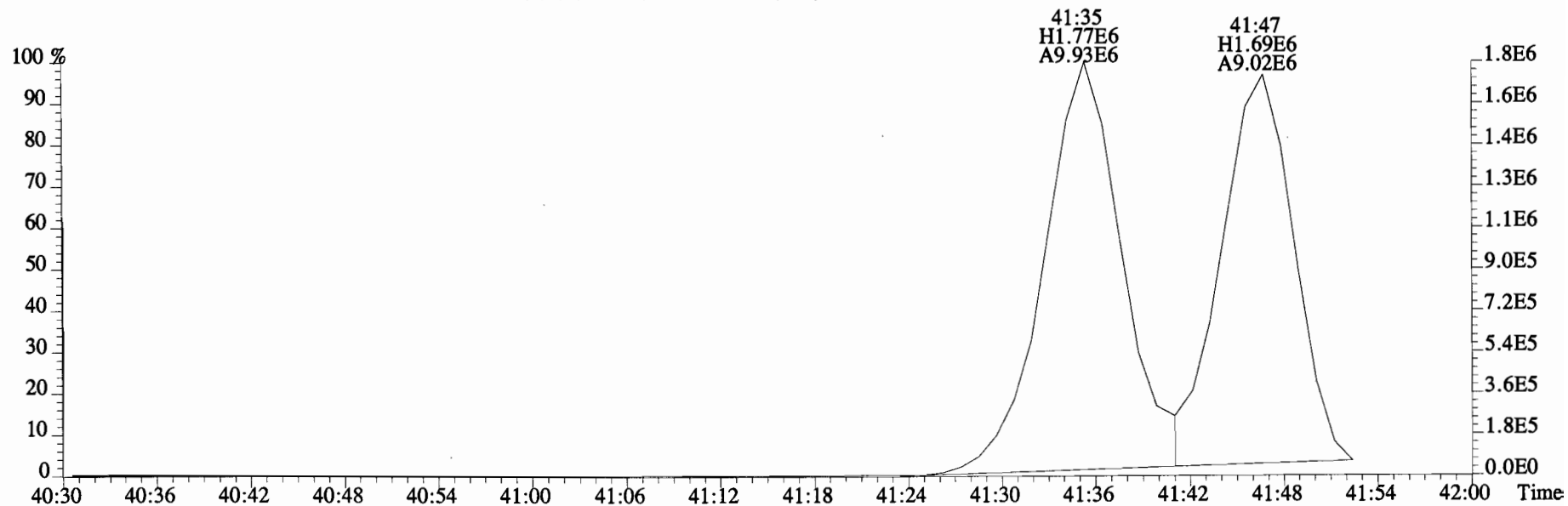
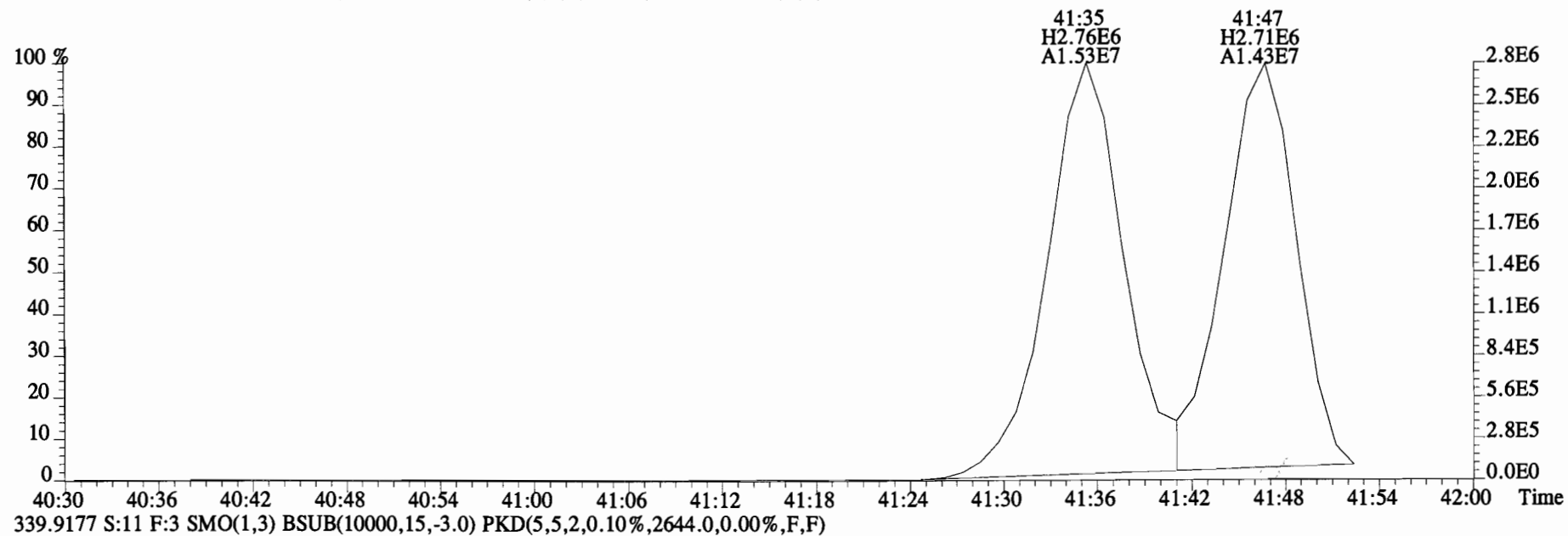
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4732.0,0.00%,F,F)



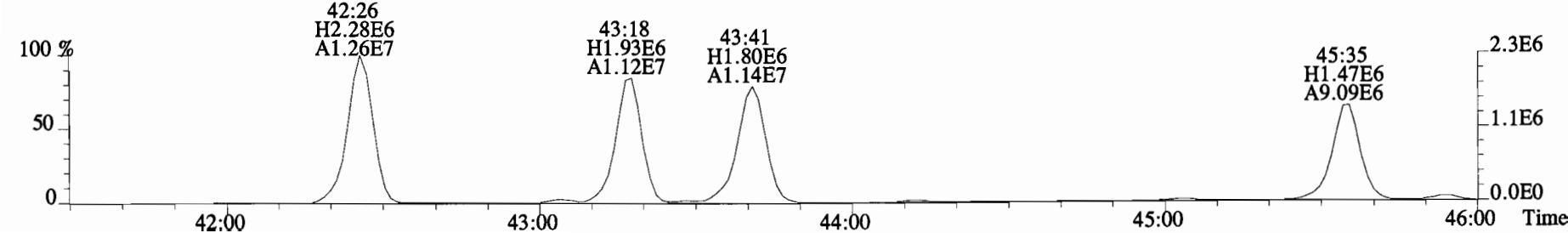
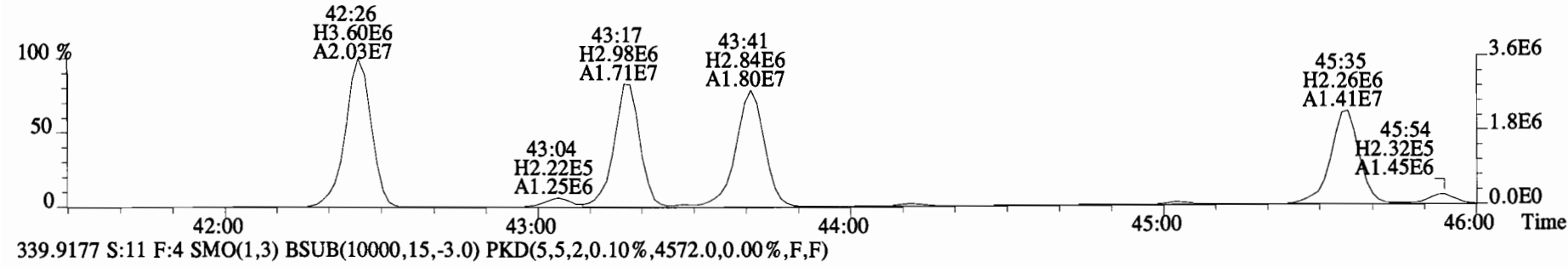
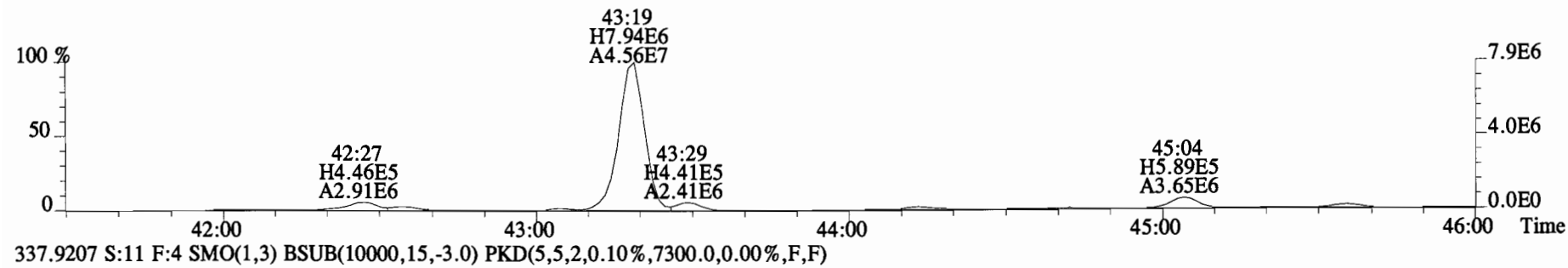
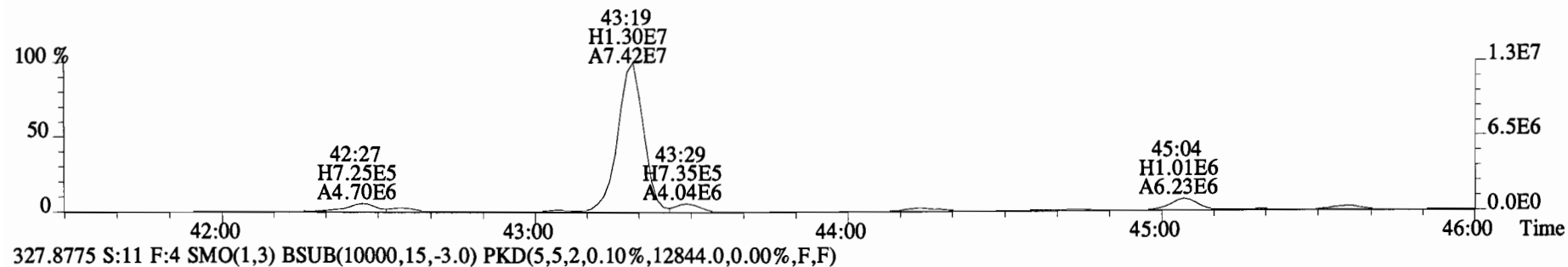
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4732.0,0.00%,F,F)



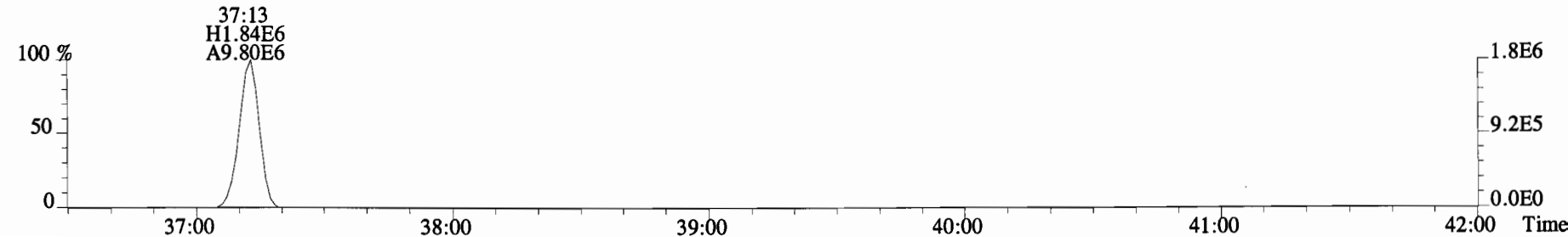
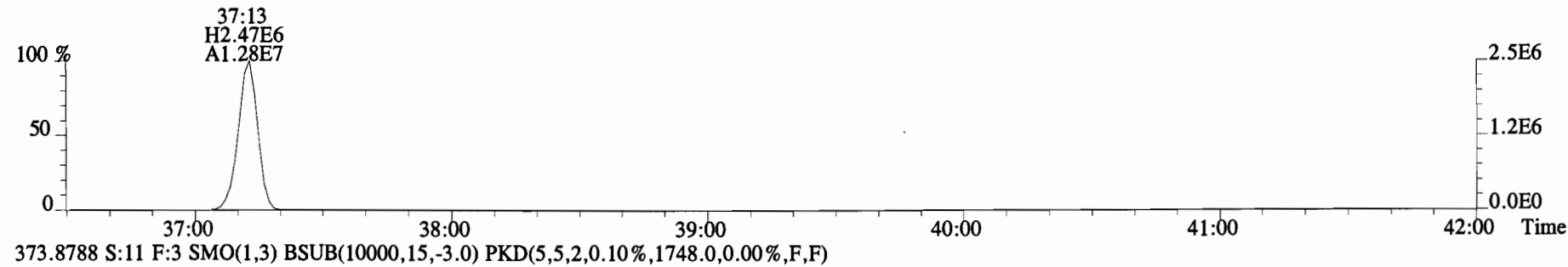
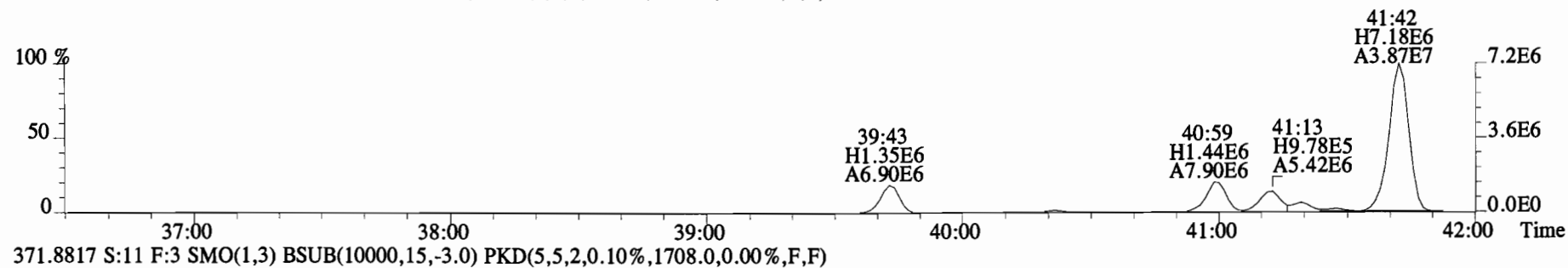
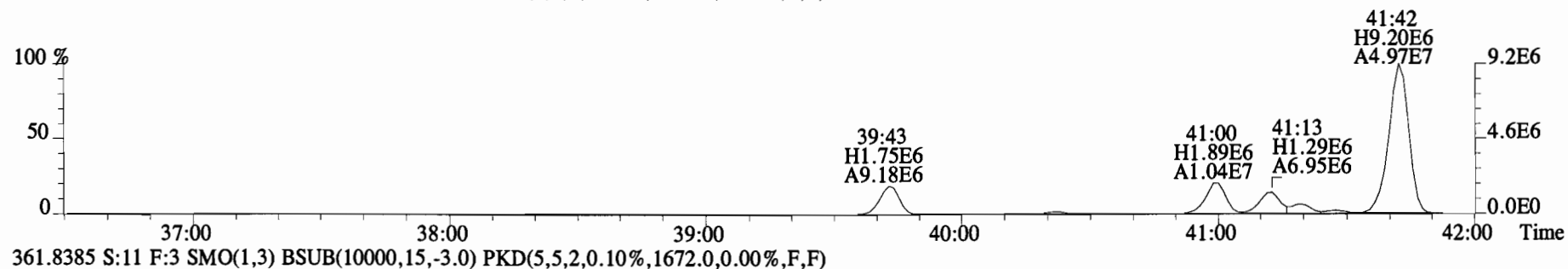
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
337.9207 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3392.0,0.00%,F,F)



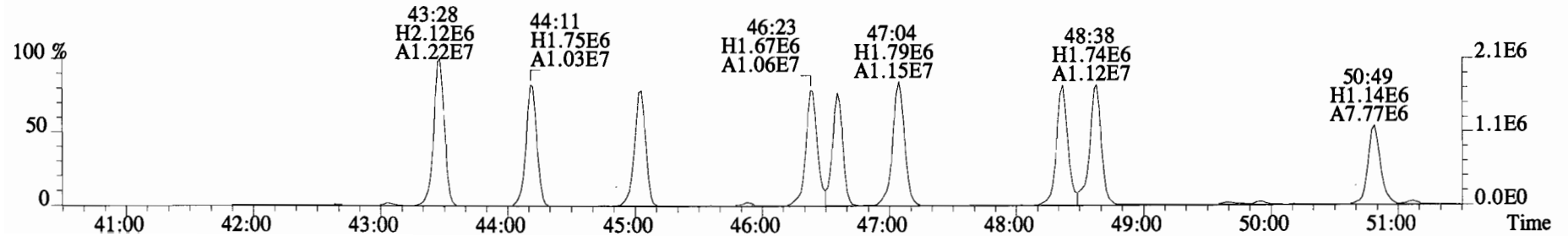
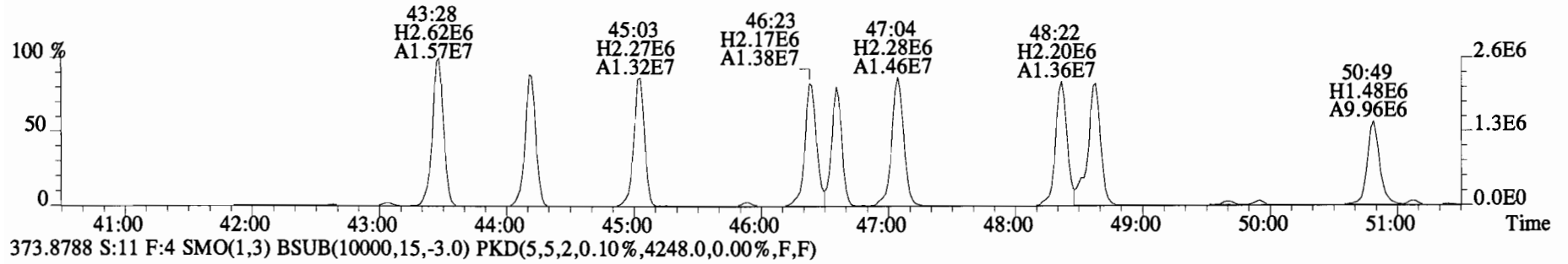
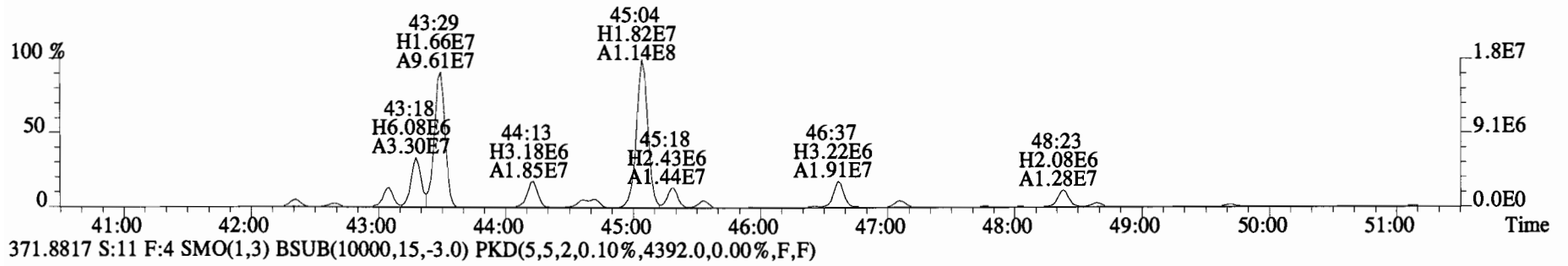
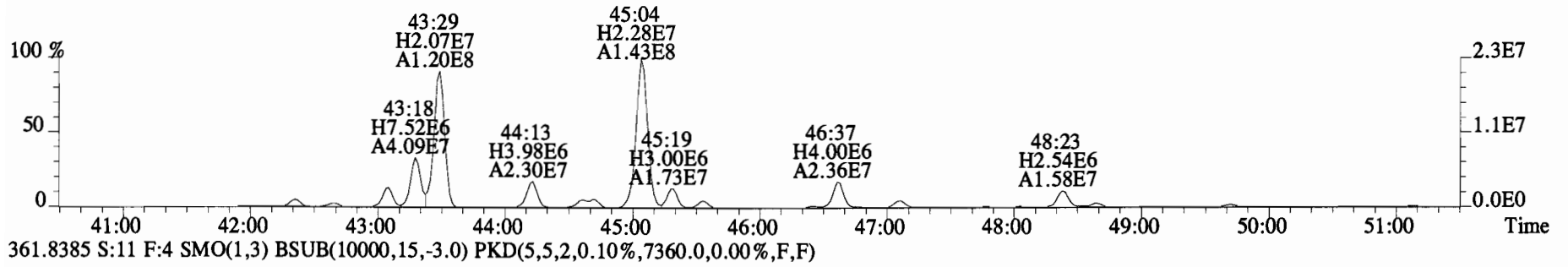
File:150318E1 #1-555 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
 325.8804 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,23528.0,0.00%,F,F)



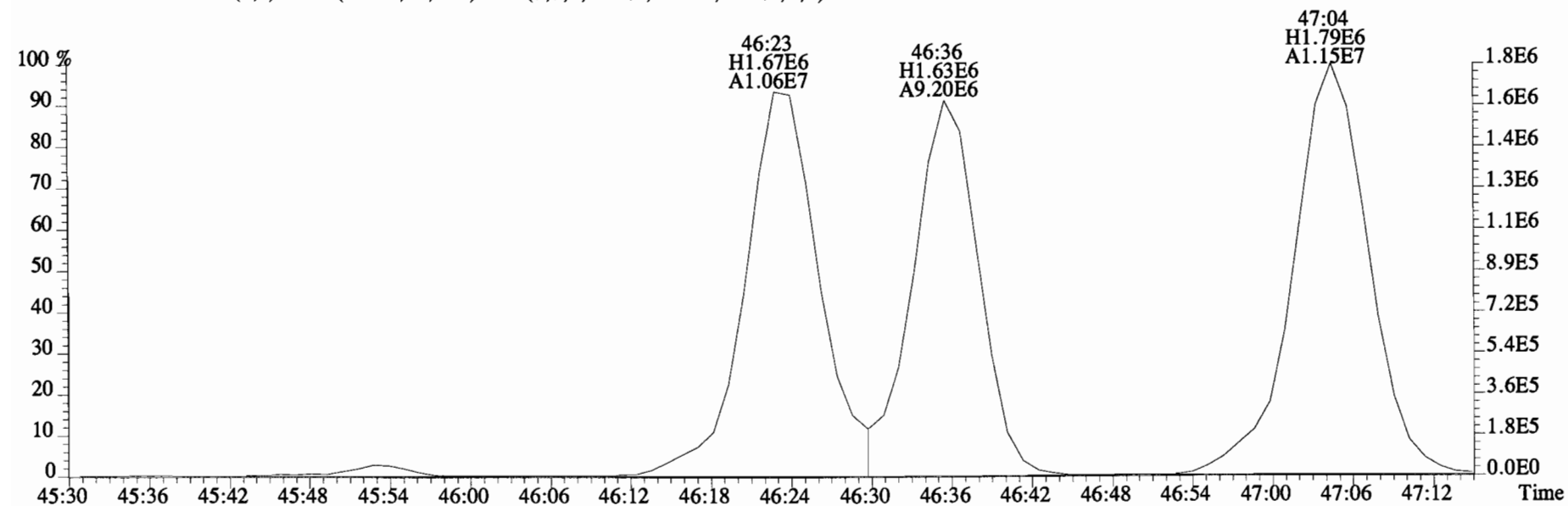
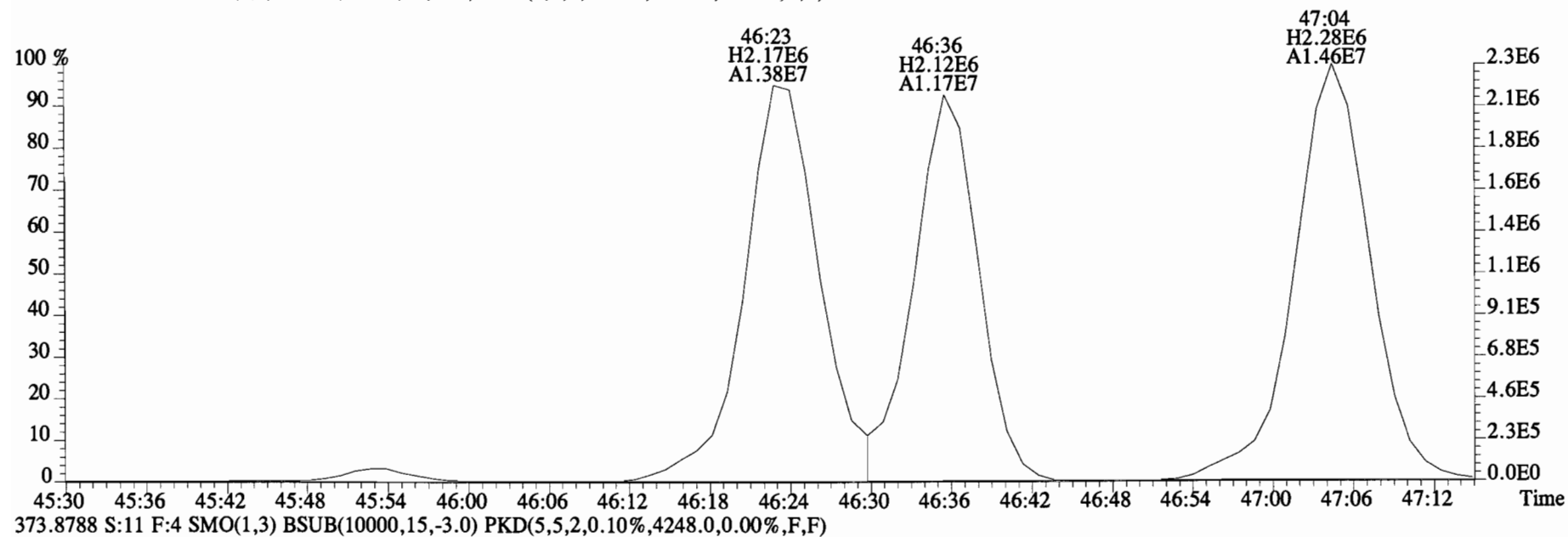
File:150318E1 #1-758 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
359.8415 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1712.0,0.00%,F,F)



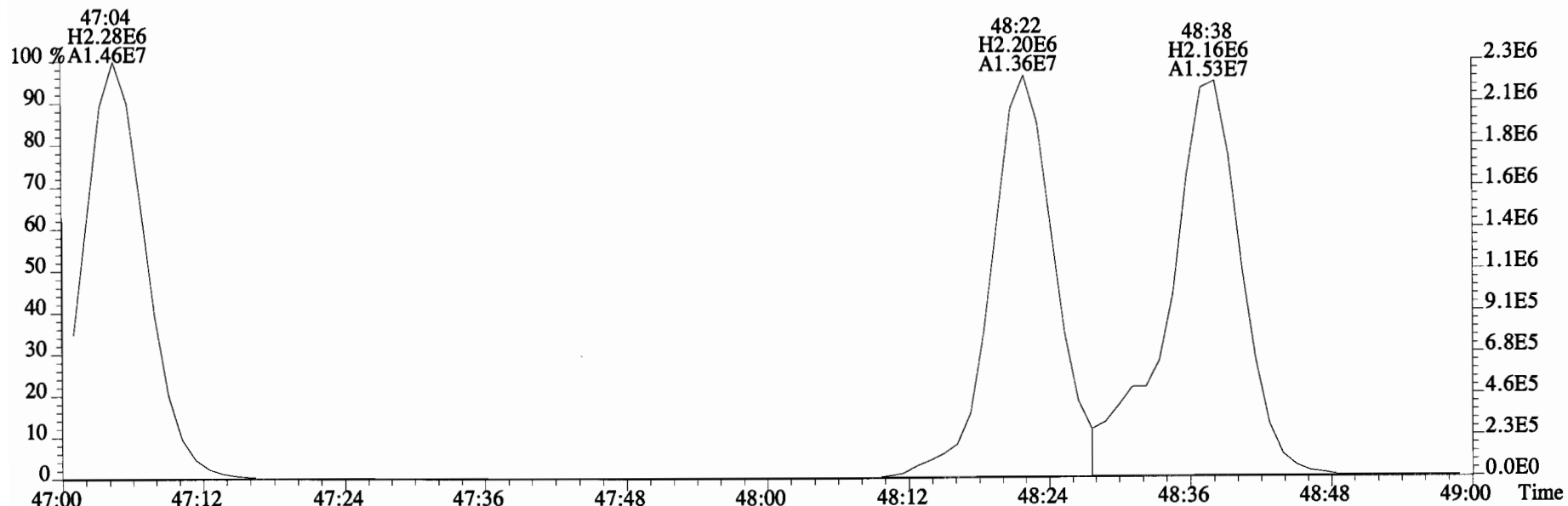
File:150318E1 #1-555 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,10032.0,0.00%,F,F)



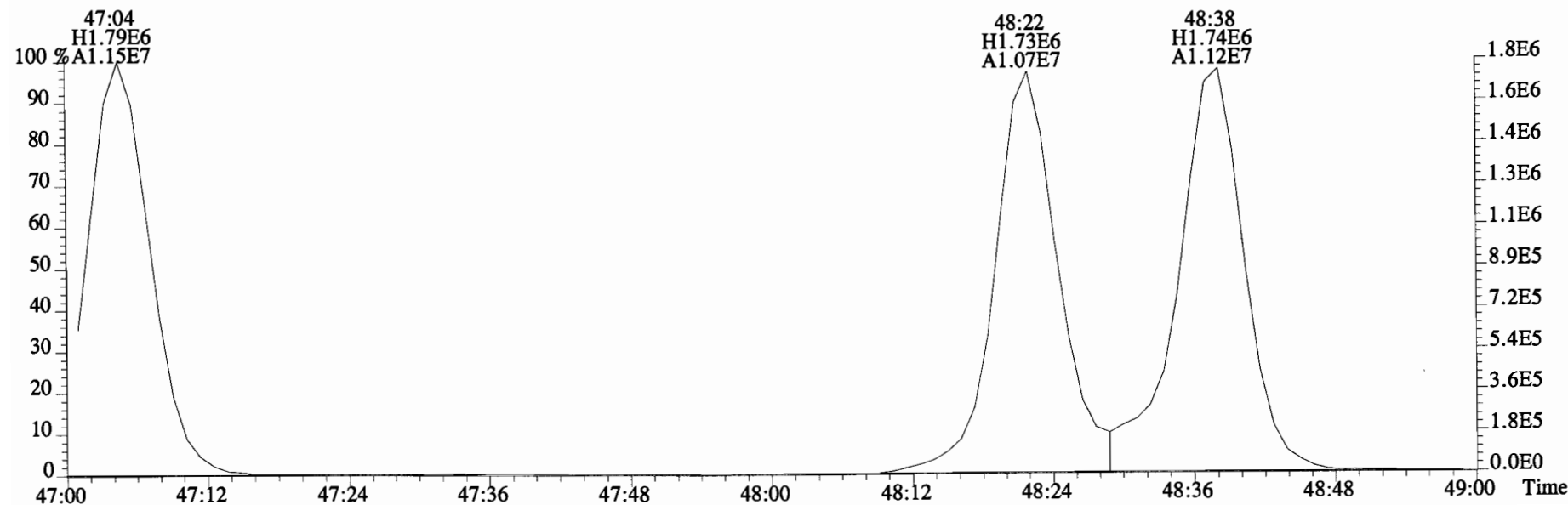
File:150318E1 #1-555 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
371.8817 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4392.0,0.00%,F,F)



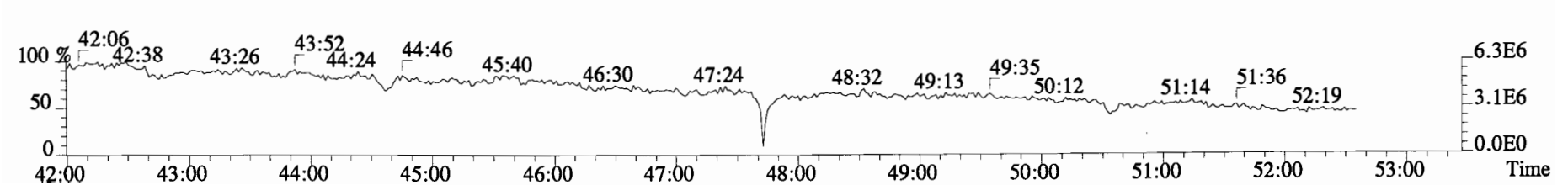
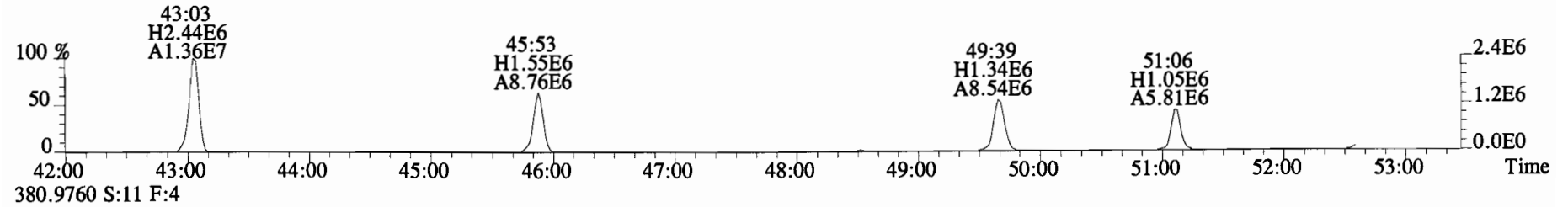
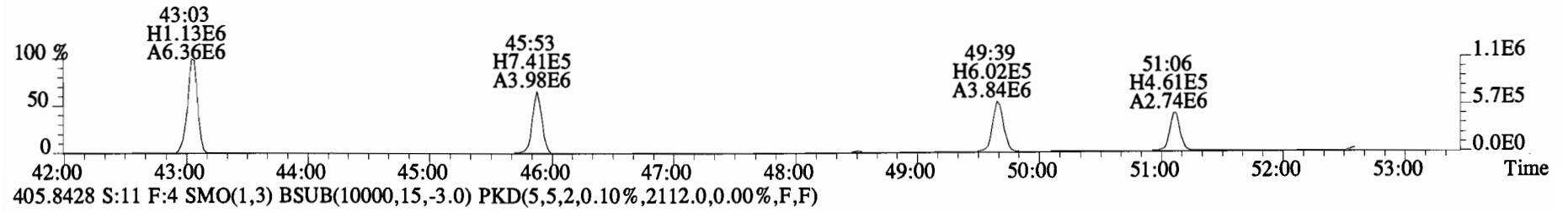
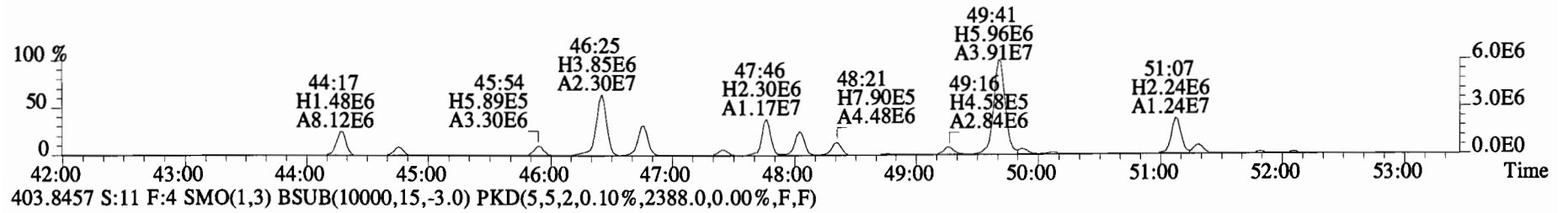
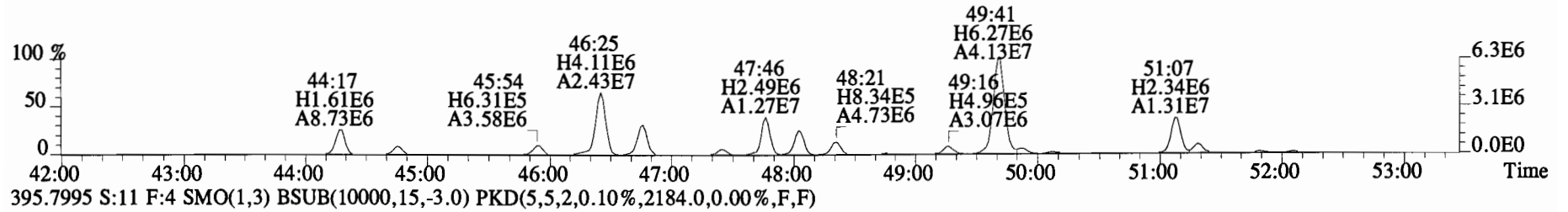
File:150318E1 #1-555 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
371.8817 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4392.0,0.00%,F,F)



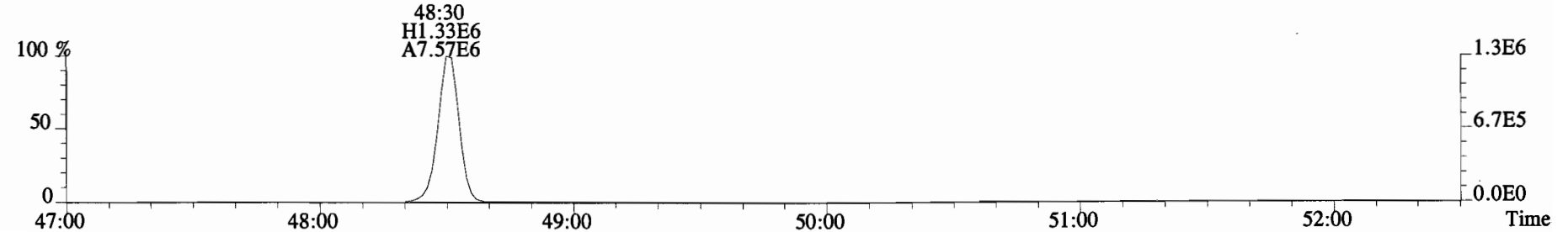
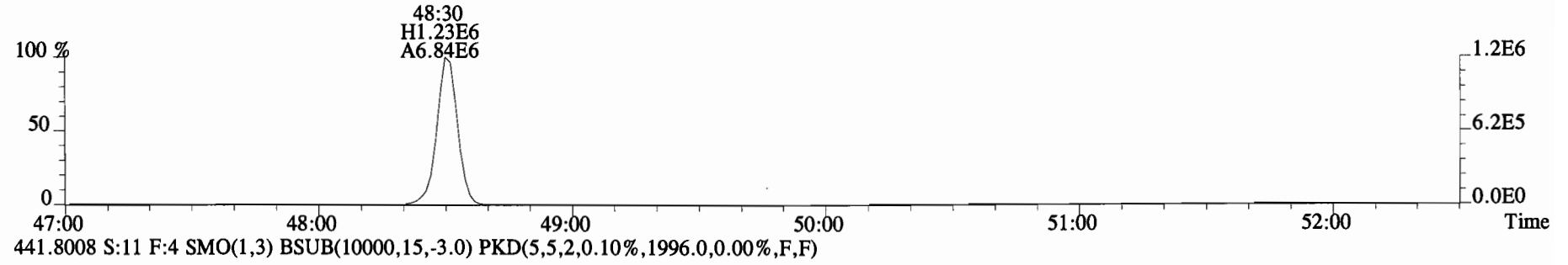
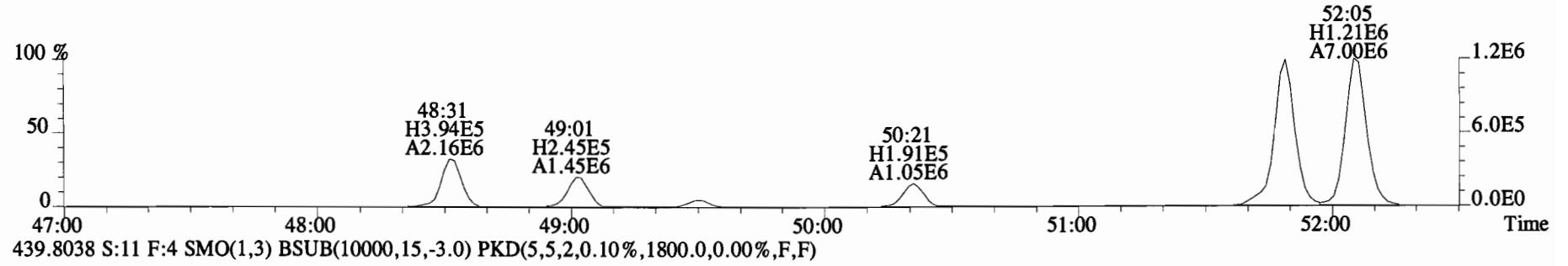
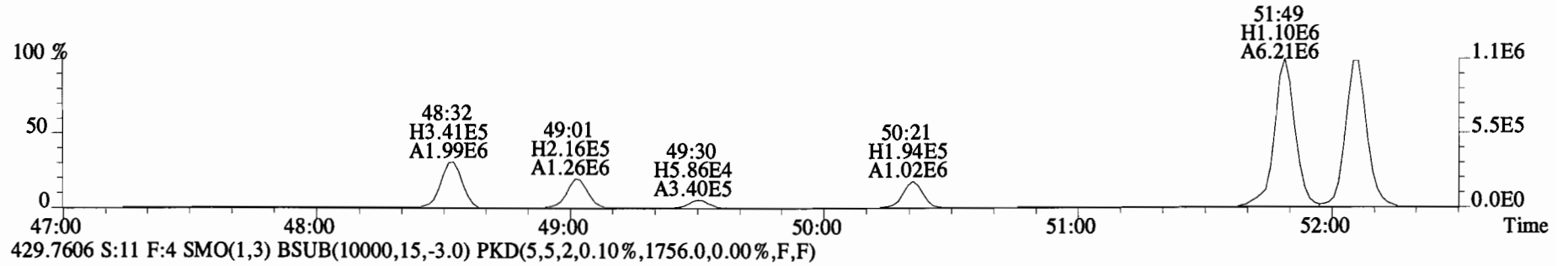
373.8788 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4248.0,0.00%,F,F)



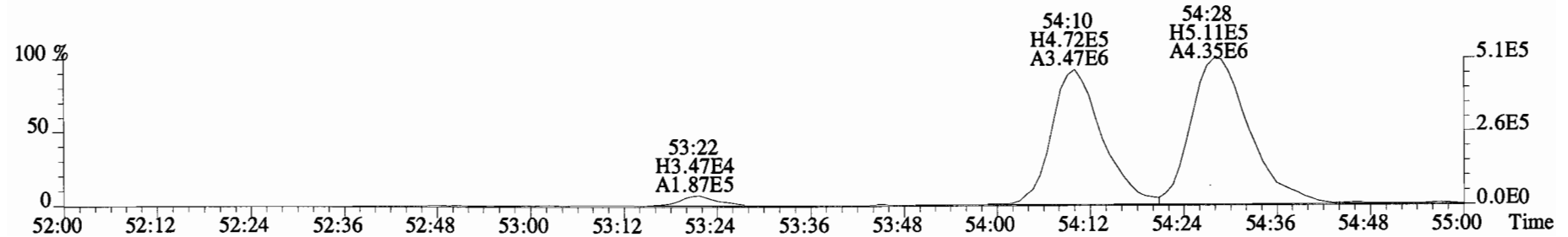
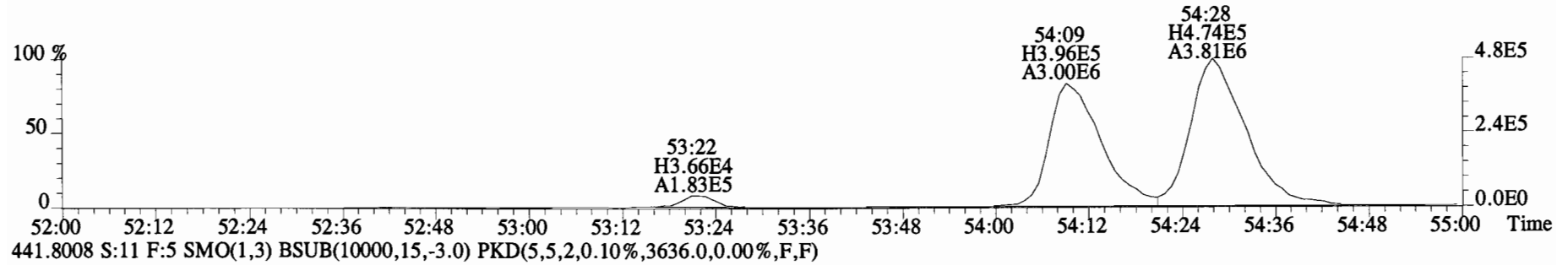
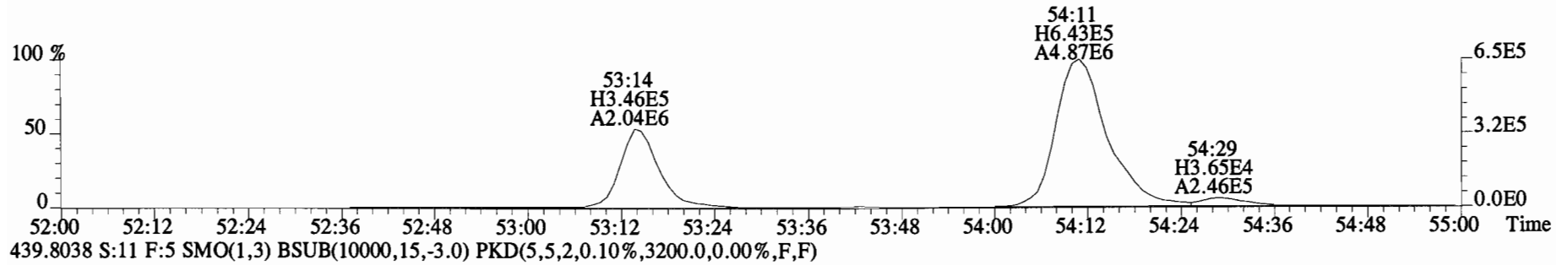
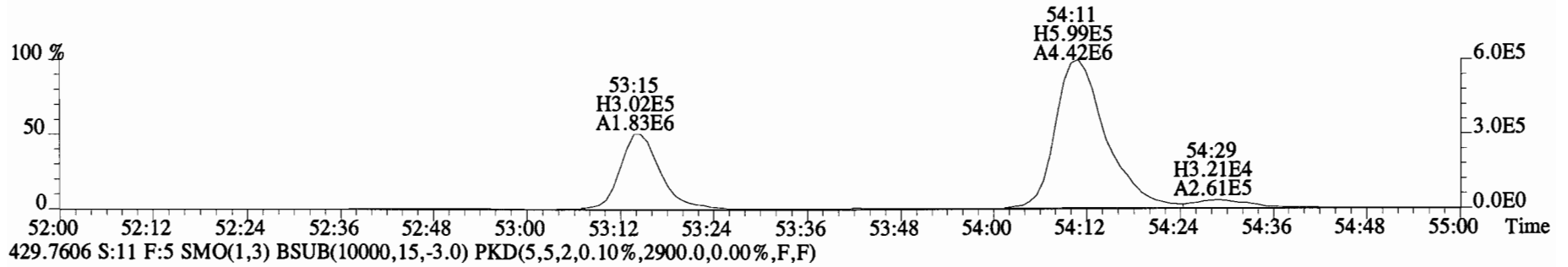
File:150318E1 #1-555 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2448.0,0.00%,F,F)



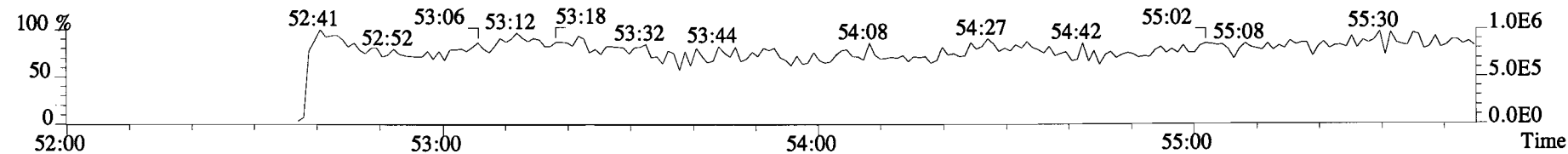
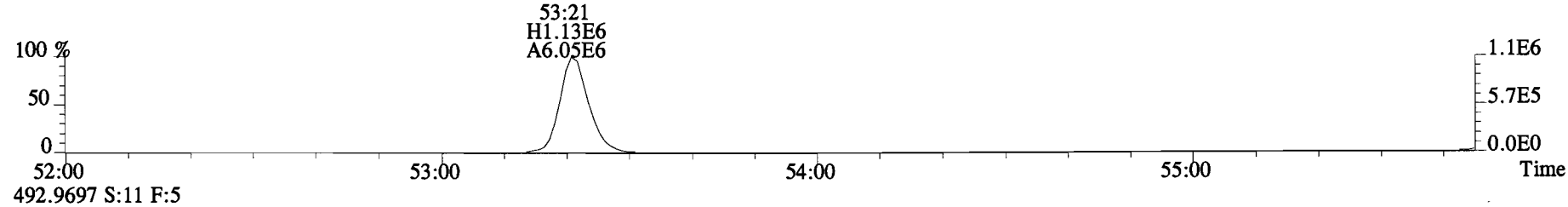
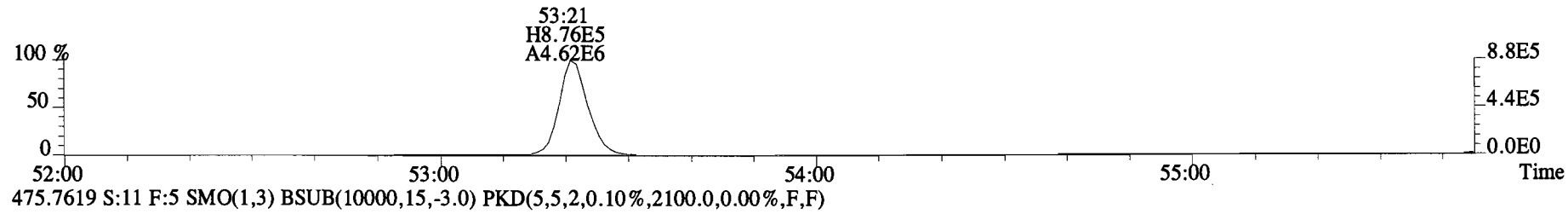
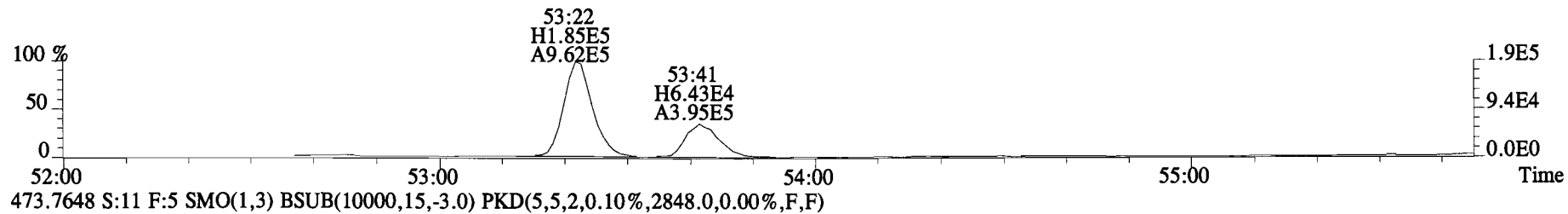
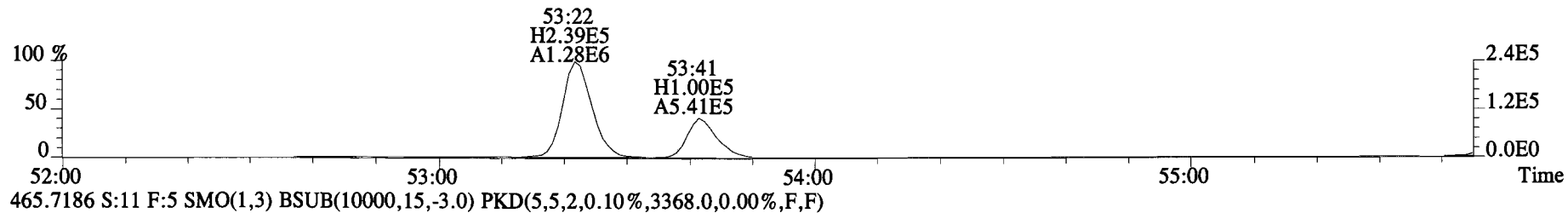
File:150318E1 #1-555 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
427.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2428.0,0.00%,F,F)



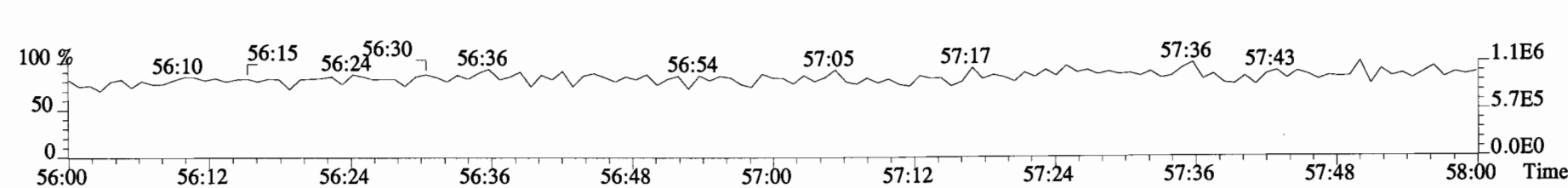
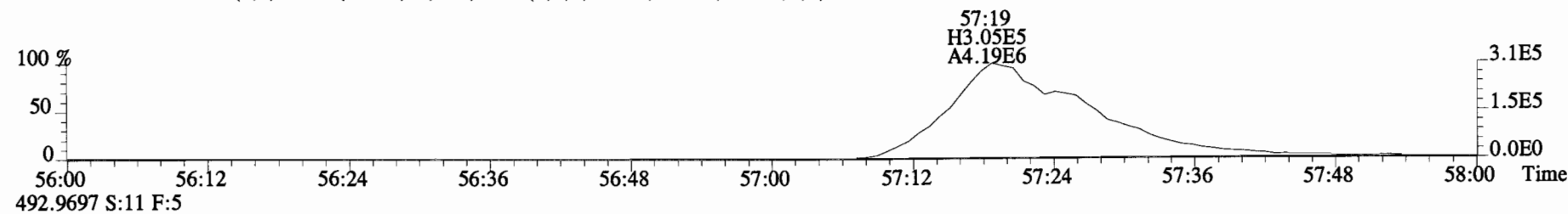
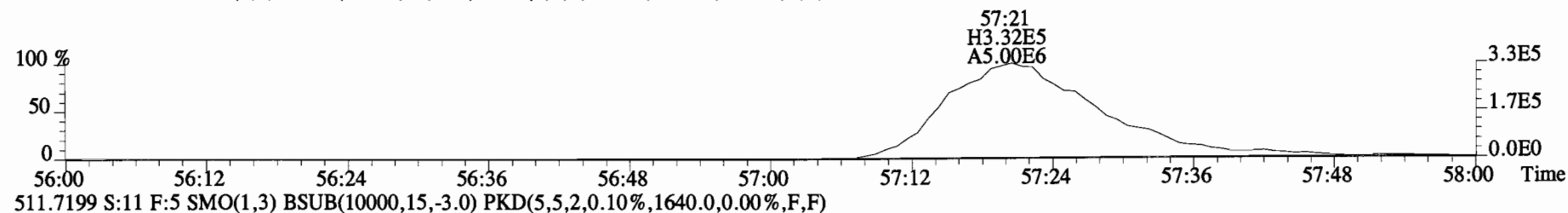
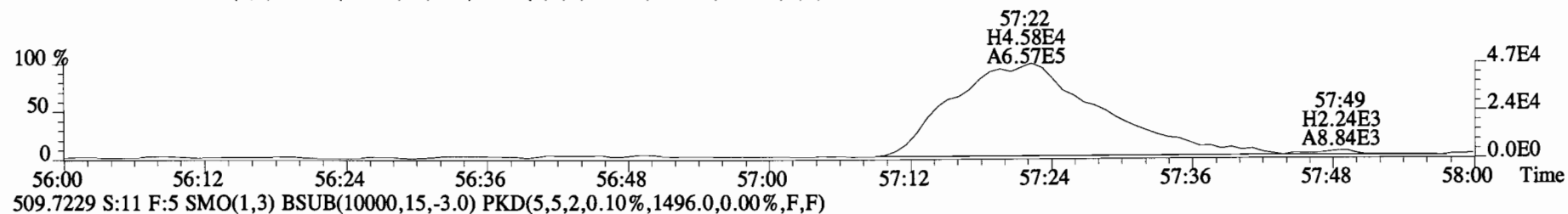
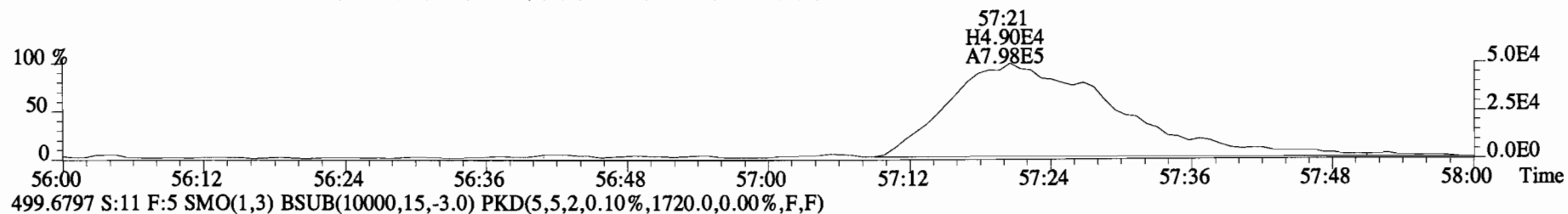
File:150318E1 #1-430 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
427.7635 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2104.0,0.00%,F,F)



File:150318E1 #1-430 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
463.7216 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1548.0,0.00%,F,F)



File:150318E1 #1-430 Acq:18-MAR-2015 20:44:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1400948-03RE1 SC-CB-24-20141211-S Exp:PCB_ZB1
497.6826 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1952.0,0.00%,F,F)



CONTINUING CALIBRATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150318E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150318E1 S#1 Analysis Date: 18-MAR-15 Time: 09:59:47

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.98	2.66-3.60	y	44.7	37.5-62.5	PCB-52/69	0.78	0.65-0.89	y	114.8	75.0-125
PCB-2	3.01	2.66-3.60	y	42.3	37.5-62.5	PCB-73	0.79	0.65-0.89	y	52.0	37.5-62.5
PCB-3	2.96	2.66-3.60	y	43.9	37.5-62.5	PCB-43/49	0.79	0.65-0.89	y	108.5	75.0-125
PCB-4/10	1.64	1.33-1.79	y	203.3	150-250	PCB-47	0.78	0.65-0.89	y	51.0	37.5-62.5
PCB-7/9	1.66	1.33-1.79	y	208.6	150-250	PCB-48/75	0.79	0.65-0.89	y	116.2	75.0-125
PCB-6	1.64	1.33-1.79	y	102.0	75.0-125	PCB-65	0.78	0.65-0.89	y	58.0	37.5-62.5
PCB-5/8	1.66	1.33-1.79	y	211.1	150-250	PCB-62	0.80	0.65-0.89	y	54.6	37.5-62.5
PCB-14	1.66	1.33-1.79	y	104.8	75.0-125	PCB-44	0.79	0.65-0.89	y	56.7	37.5-62.5
PCB-11	1.66	1.33-1.79	y	105.0	75.0-125	PCB-42/59	0.80	0.65-0.89	y	114.9	75.0-125
PCB-12/13	1.64	1.33-1.79	y	207.9	150-250	PCB-41/64/71/72	0.80	0.65-0.89	y	227.4	150-250
PCB-15	1.63	1.33-1.79	y	104.4	75.0-125	PCB-68	0.80	0.65-0.89	y	58.5	37.5-62.5
PCB-19	1.09	0.88-1.20	y	53.0	37.5-62.5	PCB-40	0.78	0.65-0.89	y	59.3	37.5-62.5
PCB-30	1.07	0.88-1.20	y	50.9	37.5-62.5	PCB-57	0.79	0.65-0.89	y	56.3	37.5-62.5
PCB-18	1.07	0.88-1.20	y	52.9	37.5-62.5	PCB-67	0.78	0.65-0.89	y	54.7	37.5-62.5
PCB-17	1.07	0.88-1.20	y	51.8	37.5-62.5	PCB-58	0.79	0.65-0.89	y	55.2	37.5-62.5
PCB-24/27	1.07	0.88-1.20	y	105.1	75.0-125	PCB-63	0.78	0.65-0.89	y	54.6	37.5-62.5
PCB-16/32	1.07	0.88-1.20	y	105.5	75.0-125	PCB-74	0.80	0.65-0.89	y	54.3	37.5-62.5
PCB-34	1.10	0.88-1.20	y	54.7	37.5-62.5	PCB-61/70	0.79	0.65-0.89	y	112.7	75.0-125
PCB-23	1.12	0.88-1.20	y	49.9	37.5-62.5	PCB-76/66	0.80	0.65-0.89	y	108.8	75.0-125
PCB-29	1.09	0.88-1.20	y	53.7	37.5-62.5	PCB-80	0.79	0.65-0.89	y	55.0	37.5-62.5
PCB-26	1.08	0.88-1.20	y	54.6	37.5-62.5	PCB-55	0.78	0.65-0.89	y	54.8	37.5-62.5
PCB-25	1.10	0.88-1.20	y	56.9	37.5-62.5	PCB-56/60	0.80	0.65-0.89	y	111.0	75.0-125
PCB-31	1.12	0.88-1.20	y	53.3	37.5-62.5	PCB-79	0.80	0.65-0.89	y	55.3	37.5-62.5
PCB-28	1.12	0.88-1.20	y	55.9	37.5-62.5	PCB-78	0.79	0.65-0.89	y	51.0	37.5-62.5
PCB-20/21/33	1.10	0.88-1.20	y	178.4	112.5-225	PCB-81	0.79	0.65-0.89	y	50.7	37.5-62.5
PCB-22	1.11	0.88-1.20	y	57.1	37.5-62.5	PCB-77	0.81	0.65-0.89	y	51.5	37.5-62.5
PCB-36	1.11	0.88-1.20	y	53.9	37.5-62.5	PCB-104	1.60	1.32-1.78	y	56.4	37.5-62.5
PCB-39	1.12	0.88-1.20	y	54.3	37.5-62.5	PCB-96	1.62	1.32-1.78	y	54.6	37.5-62.5
PCB-38	1.10	0.88-1.20	y	51.3	37.5-62.5	PCB-103	1.61	1.32-1.78	y	54.8	37.5-62.5
PCB-35	1.11	0.88-1.20	y	58.7	37.5-62.5	PCB-100	1.58	1.32-1.78	y	55.6	37.5-62.5
PCB-37	1.12	0.88-1.20	y	56.8	37.5-62.5	PCB-94	1.60	1.32-1.78	y	52.0	37.5-62.5
PCB-54	0.79	0.65-0.89	y	52.6	37.5-62.5	PCB-95/98/102	1.62	1.32-1.78	y	163.3	112.5-225
PCB-50	0.80	0.65-0.89	y	53.1	37.5-62.5	PCB-93	1.65	1.32-1.78	y	50.9	37.5-62.5
PCB-53	0.79	0.65-0.89	y	54.9	37.5-62.5	PCB-88/91	1.61	1.32-1.78	y	111.2	75.0-125
PCB-51	0.80	0.65-0.89	y	53.2	37.5-62.5	PCB-121	1.62	1.32-1.78	y	53.8	37.5-62.5
PCB-45	0.80	0.65-0.89	y	54.5	37.5-62.5						
PCB-46	0.79	0.65-0.89	y	54.3	37.5-62.5						

Analyst: Dms

Date: 3/17/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150318E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150318E1 S#1 Analysis Date: 18-MAR-15 Time: 09:59:47

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.61	1.32-1.78	y	108.8	75.0-125	PCB-140	1.30	1.05-1.43	y	59.8	37.5-62.5
PCB-89	1.58	1.32-1.78	y	52.5	37.5-62.5	PCB-134/143	1.23	1.05-1.43	y	94.7	75.0-125
PCB-90/101	1.61	1.32-1.78	y	110.5	75.0-125	PCB-133/142	1.26	1.05-1.43	y	93.5	75.0-125
PCB-113	1.60	1.32-1.78	y	56.4	37.5-62.5	PCB-131	1.25	1.05-1.43	y	47.6	37.5-62.5
PCB-99	1.60	1.32-1.78	y	52.5	37.5-62.5	PCB-146/165	1.23	1.05-1.43	y	96.5	75.0-125
PCB-119	1.56	1.32-1.78	y	54.5	37.5-62.5	PCB-132/161	1.24	1.05-1.43	y	95.3	75.0-125
PCB-108/112	1.61	1.32-1.78	y	108.5	75.0-125	PCB-153	1.24	1.05-1.43	y	48.5	37.5-62.5
PCB-83	1.61	1.32-1.78	y	54.2	37.5-62.5	PCB-168	1.24	1.05-1.43	y	48.4	37.5-62.5
PCB-97	1.64	1.32-1.78	y	52.8	37.5-62.5	PCB-141	1.23	1.05-1.43	y	49.6	37.5-62.5
PCB-86	1.48	1.32-1.78	y	58.5	37.5-62.5	PCB-137	1.25	1.05-1.43	y	49.4	37.5-62.5
PCB-87/117/125	1.64	1.32-1.78	y	165.4	112.5-225	PCB-130	1.25	1.05-1.43	y	45.2	37.5-62.5
PCB-111/115	1.61	1.32-1.78	y	106.7	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	156.1	112.5-225
PCB-85/116	1.61	1.32-1.78	y	118.7	75.0-125	PCB-158/160	1.23	1.05-1.43	y	102.6	75.0-125
PCB-120	1.60	1.32-1.78	y	55.1	37.5-62.5	PCB-129	1.27	1.05-1.43	y	52.5	37.5-62.5
PCB-110	1.61	1.32-1.78	y	58.0	37.5-62.5	PCB-166	1.23	1.05-1.43	y	47.4	37.5-62.5
PCB-82	1.63	1.32-1.78	y	52.8	37.5-62.5	PCB-159	1.24	1.05-1.43	y	52.4	37.5-62.5
PCB-124	1.60	1.32-1.78	y	53.3	37.5-62.5	PCB-128/162	1.26	1.05-1.43	y	100.4	75.0-125
PCB-107/109	1.62	1.32-1.78	y	102.0	75.0-125	PCB-167	1.25	1.05-1.43	y	51.3	37.5-62.5
PCB-123	1.60	1.32-1.78	y	53.1	37.5-62.5	PCB-156	1.24	1.05-1.43	y	52.4	37.5-62.5
PCB-106/118	1.63	1.32-1.78	y	106.0	75.0-125	PCB-157	1.25	1.05-1.43	y	50.2	37.5-62.5
PCB-114	1.58	1.32-1.78	y	51.3	37.5-62.5	PCB-169	1.24	1.05-1.43	y	50.3	37.5-62.5
PCB-122	1.65	1.32-1.78	y	51.6	37.5-62.5	PCB-188	1.08	0.89-1.21	y	51.8	37.5-62.5
PCB-105	1.60	1.32-1.78	y	53.4	37.5-62.5	PCB-184	1.07	0.89-1.21	y	51.9	37.5-62.5
PCB-127	1.63	1.32-1.78	y	52.3	37.5-62.5	PCB-179	1.08	0.89-1.21	y	51.5	37.5-62.5
PCB-126	1.61	1.32-1.78	y	54.9	37.5-62.5	PCB-176	1.09	0.89-1.21	y	51.1	37.5-62.5
PCB-155	1.30	1.05-1.43	y	53.3	37.5-62.5	PCB-186	1.08	0.89-1.21	y	52.8	37.5-62.5
PCB-150	1.27	1.05-1.43	y	55.8	37.5-62.5	PCB-178	1.06	0.89-1.21	y	52.9	37.5-62.5
PCB-152	1.31	1.05-1.43	y	55.2	37.5-62.5	PCB-175	1.06	0.89-1.21	y	53.4	37.5-62.5
PCB-145	1.27	1.05-1.43	y	56.8	37.5-62.5	PCB-182/187	1.08	0.89-1.21	y	106.5	75.0-125
PCB-136	1.31	1.05-1.43	y	57.7	37.5-62.5	PCB-183	1.06	0.89-1.21	y	53.3	37.5-62.5
PCB-148	1.29	1.05-1.43	y	53.9	37.5-62.5	PCB-185	1.06	0.89-1.21	y	50.8	37.5-62.5
PCB-154	1.26	1.05-1.43	y	57.8	37.5-62.5	PCB-174	1.06	0.89-1.21	y	49.5	37.5-62.5
PCB-151	1.28	1.05-1.43	y	58.6	37.5-62.5	PCB-181	1.08	0.89-1.21	y	54.4	37.5-62.5
PCB-135	1.27	1.05-1.43	y	59.0	37.5-62.5	PCB-177	1.08	0.89-1.21	y	51.7	37.5-62.5
PCB-144	1.28	1.05-1.43	y	61.5	37.5-62.5	PCB-171	1.08	0.89-1.21	y	51.7	37.5-62.5
PCB-147	1.30	1.05-1.43	y	61.0	37.5-62.5	PCB-173	1.06	0.89-1.21	y	53.1	37.5-62.5
PCB-139/149	1.27	1.05-1.43	y	120.5	75.0-125	PCB-172	1.07	0.89-1.21	y	53.0	37.5-62.5

Analyst: DMS

Date: 3/19/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Page 1 of

Lab Name: Vista Analytical Laboratory Lab ID: ST150318E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150318E1 S#1 Analysis Date: 18-MAR-15 Time: 09:59:47

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.07	0.89-1.21	y	54.7	37.5-62.5
PCB-180	1.07	0.89-1.21	y	52.5	37.5-62.5
PCB-193	1.07	0.89-1.21	y	53.2	37.5-62.5
PCB-191	1.07	0.89-1.21	y	52.9	37.5-62.5
PCB-170	1.08	0.89-1.21	y	52.5	37.5-62.5
PCB-190	1.06	0.89-1.21	y	53.0	37.5-62.5
PCB-189	1.07	0.89-1.21	y	51.4	37.5-62.5
PCB-202	0.92	0.76-1.02	y	51.0	37.5-62.5
PCB-201	0.93	0.76-1.02	y	52.8	37.5-62.5
PCB-204	0.92	0.76-1.02	y	50.7	37.5-62.5
PCB-197	0.92	0.76-1.02	y	51.4	37.5-62.5
PCB-200	0.92	0.76-1.02	y	52.5	37.5-62.5
PCB-198	0.90	0.76-1.02	y	57.2	37.5-62.5
PCB-199	0.91	0.76-1.02	y	55.8	37.5-62.5
PCB-196/203	0.92	0.76-1.02	y	116.7	75.0-125
PCB-195	0.93	0.76-1.02	y	43.2	37.5-62.5
PCB-194	0.92	0.76-1.02	y	47.7	37.5-62.5
PCB-205	0.92	0.76-1.02	y	51.2	37.5-62.5
PCB-208	1.33	1.14-1.54	y	51.6	37.5-62.5
PCB-207	1.34	1.14-1.54	y	53.2	37.5-62.5
PCB-206	1.35	1.14-1.54	y	50.5	37.5-62.5
PCB-209	1.18	0.99-1.33	y	52.4	37.5-62.5

Analyst: DMSDate: 3/19/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150318E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150318E1 S#1 Analysis Date: 18-MAR-15 Time: 09:59:47

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	3.20	2.66-3.60	y	100.9	50.0-145	13C-PCB-169	1.29	1.05-1.43	y	112.5	50 - 145
13C-PCB-3	3.22	2.66-3.60	y	104.8	50.0-145	13C-PCB-188	0.47	0.38-0.52	y	81.4	50 - 145
13C-PCB-4	1.61	1.33-1.79	y	98.6	50.0-145	13C-PCB-180	0.48	0.38-0.52	y	89.0	50 - 145
13C-PCB-9	1.60	1.33-1.79	y	95.2	50.0-145	13C-PCB-170	0.47	0.38-0.52	y	94.5	50 - 145
13C-PCB-11	1.59	1.33-1.79	y	97.4	50.0-145	13C-PCB-189	0.45	0.38-0.52	y	98.6	50 - 145
13C-PCB-19	1.09	0.88-1.20	y	86.8	50.0-145	13C-PCB-202	0.93	0.76-1.02	y	76.2	50 - 145
13C-PCB-32	1.10	0.88-1.20	y	86.0	50.0-145	13C-PCB-194	0.93	0.76-1.02	y	96.1	50 - 145
13C-PCB-28	1.09	0.88-1.20	y	105.6	50.0-145	13C-PCB-208	0.78	0.65-0.89	y	78.9	50 - 145
13C-PCB-37	1.09	0.88-1.20	y	117.7	50.0-145	13C-PCB-206	0.79	0.65-0.89	y	91.9	50 - 145
13C-PCB-54	0.82	0.65-0.89	y	87.6	50.0-145	13C-PCB-209	1.20	0.99-1.33	y	99.7	50 - 145
13C-PCB-52	0.82	0.65-0.89	y	91.8	50.0-145						
13C-PCB-47	0.80	0.65-0.89	y	91.5	50.0-145						
13C-PCB-70	0.83	0.65-0.89	y	96.5	50.0-145						
13C-PCB-80	0.81	0.65-0.89	y	98.8	50.0-145						
13C-PCB-81	0.81	0.65-0.89	y	104.1	50.0-145						
13C-PCB-77	0.81	0.65-0.89	y	105.5	50.0-145						
13C-PCB-104	1.62	1.32-1.78	y	91.5	50.0-145						
13C-PCB-95	1.62	1.32-1.78	y	96.4	50.0-145						
13C-PCB-101	1.61	1.32-1.78	y	95.4	50.0-145	CRS vs. RS					
13C-PCB-97	1.67	1.32-1.78	y	97.8	50.0-145						
13C-PCB-123	1.62	1.32-1.78	y	107.1	50.0-145	13C-PCB-79	0.82	0.65-0.89	y	98.4	75 - 125
13C-PCB-118	1.63	1.32-1.78	y	104.6	50.0-145	13C-PCB-178	0.47	0.38-0.52	y	83.9	75 - 125
13C-PCB-114	1.63	1.32-1.78	y	105.9	50.0-145						
13C-PCB-105	1.64	1.32-1.78	y	104.8	50.0-145						
13C-PCB-127	1.63	1.32-1.78	y	106.0	50.0-145						
13C-PCB-126	1.64	1.32-1.78	y	110.8	50.0-145						
13C-PCB-155	1.32	1.05-1.43	y	73.4	50.0-145						
13C-PCB-153	1.29	1.05-1.43	y	94.7	50.0-145						
13C-PCB-141	1.29	1.05-1.43	y	95.0	50.0-145						
13C-PCB-138	1.31	1.05-1.43	y	94.4	50.0-145						
13C-PCB-159	1.30	1.05-1.43	y	101.8	50.0-145						
13C-PCB-167	1.30	1.05-1.43	y	103.3	50.0-145						
13C-PCB-156	1.29	1.05-1.43	y	105.3	50.0-145						
13C-PCB-157	1.29	1.05-1.43	y	104.3	50.0-145						

Analyst: DMS

Date: 3/18/15

Client ID: PCB CS3 14K1102
Lab ID: ST150318E1-1

Filename: 150318E1 S:1 Acq:18-MAR-15 09:59:47
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA
ConCal: ST150318E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.21e+08	2.98	y	1.19	16:07	1.001	0.996-1.006	44.6964	PCB-52/69	1.85e+08	0.78	y	1.28	31:30	1.001	0.996-1.006	114.800
PCB-2	1.23e+08	3.01	y	1.18	18:30	0.988	0.984-0.994	42.2561	PCB-73	8.83e+07	0.79	y	1.35	31:37	1.005	1.000-1.010	51.9749
PCB-3	1.54e+08	2.96	y	1.43	18:44	1.001	0.996-1.006	43.8704	PCB-43/49	1.36e+08	0.79	y	0.99	31:47	1.010	1.005-1.015	108.475
PCB-4/10	4.75e+08	1.64	y	1.57	20:05	1.002	0.997-1.007	203.261	PCB-47	7.12e+07	0.78	y	1.06	31:59	1.000	0.996-1.006	51.0419
PCB-7/9	5.55e+08	1.66	y	1.21	21:52	0.868	0.866-0.874	208.570	PCB-48/75	1.88e+08	0.79	y	1.23	32:06	1.004	0.999-1.009	116.178
PCB-6	2.93e+08	1.64	y	1.30	22:31	0.893	0.890-0.899	101.975	PCB-65	9.35e+07	0.78	y	1.22	32:22	1.013	1.008-1.018	57.9719
PCB-5/8	5.33e+08	1.66	y	1.15	22:56	0.910	0.907-0.917	211.116	PCB-62	8.79e+07	0.80	y	1.22	32:29	1.016	1.011-1.021	54.6217
PCB-14	2.73e+08	1.66	y	1.11	24:01	0.953	0.949-0.959	104.825	PCB-44	6.42e+07	0.79	y	0.86	32:47	1.025	1.021-1.031	56.6678
PCB-11	2.68e+08	1.66	y	1.09	25:13	1.001	0.995-1.005	104.998	PCB-42/59	1.72e+08	0.80	y	1.14	33:00	1.032	1.028-1.038	114.935
PCB-12/13	5.83e+08	1.64	y	1.19	25:37	1.016	1.011-1.021	207.948	PCB-41/64/71/72	3.62e+08	0.80	y	1.21	33:35	1.051	1.046-1.056	227.374
PCB-15	3.15e+08	1.63	y	1.28	25:55	1.028	1.023-1.033	104.436	PCB-68	1.04e+08	0.80	y	1.35	33:51	1.059	1.054-1.064	58.4761
PCB-19	6.58e+07	1.09	y	1.04	24:12	1.001	0.996-1.006	53.0357	PCB-40	5.48e+07	0.78	y	0.70	34:04	1.066	1.061-1.071	59.2951
PCB-30	1.03e+08	1.07	y	1.71	25:06	1.038	1.032-1.042	50.8591	PCB-57	9.42e+07	0.79	y	0.98	34:25	0.970	0.965-0.975	56.2961
PCB-18	7.28e+07	1.07	y	0.78	25:51	0.954	0.949-0.959	52.8603	PCB-67	1.04e+08	0.78	y	1.11	34:44	0.979	0.974-0.984	54.7482
PCB-17	8.43e+07	1.07	y	0.92	26:01	0.960	0.956-0.966	51.8482	PCB-58	8.74e+07	0.79	y	0.93	34:51	0.982	0.977-0.987	55.1846
PCB-24/27	2.20e+08	1.07	y	1.19	26:36	0.981	0.977-0.987	105.096	PCB-63	8.88e+07	0.78	y	0.95	34:60	0.987	0.982-0.992	54.6057
PCB-16/32	1.75e+08	1.07	y	0.94	27:06	1.000	0.995-1.005	105.508	PCB-74	1.15e+08	0.80	y	1.24	35:17	0.995	0.990-1.000	54.2857
PCB-34	1.31e+08	1.10	y	1.14	27:54	0.960	0.955-0.965	54.7364	PCB-61/70	1.84e+08	0.79	y	0.95	35:27	0.999	0.995-1.005	112.737
PCB-23	1.35e+08	1.12	y	1.28	28:00	0.964	0.959-0.969	49.9337	PCB-76/66	1.94e+08	0.80	y	1.04	35:41	1.006	1.001-1.011	108.829
PCB-29	1.22e+08	1.09	y	1.08	28:14	0.972	0.967-0.977	53.7071	PCB-80	1.19e+08	0.79	y	1.19	35:55	1.001	0.996-1.006	55.0299
PCB-26	1.39e+08	1.08	y	1.21	28:27	0.979	0.974-0.984	54.5863	PCB-55	1.03e+08	0.78	y	1.04	36:14	1.009	1.005-1.015	54.8373
PCB-25	1.51e+08	1.10	y	1.26	28:37	0.985	0.979-0.989	56.9431	PCB-56/60	2.03e+08	0.80	y	1.01	36:43	1.023	1.019-1.029	110.967
PCB-31	1.44e+08	1.12	y	1.28	28:57	0.997	0.992-1.002	53.2659	PCB-79	1.08e+08	0.80	y	1.08	37:47	1.053	1.048-1.058	55.2529
PCB-28	2.02e+08	1.12	y	1.71	29:04	1.001	0.995-1.005	55.8828	PCB-78	1.10e+08	0.79	y	1.27	38:29	0.987	0.982-0.992	50.9739
PCB-20/21/33	4.07e+08	1.10	y	1.08	29:41	1.022	1.017-1.027	178.437	PCB-81	1.15e+08	0.79	y	1.33	39:01	1.000	0.995-1.005	50.7450
PCB-22	1.45e+08	1.11	y	1.21	30:07	1.037	1.032-1.042	57.0758	PCB-77	1.00e+08	0.81	y	1.10	39:36	1.000	0.995-1.005	51.5069
PCB-36	1.30e+08	1.11	y	1.14	30:44	0.934	0.928-0.938	53.9271	PCB-104	6.08e+07	1.60	y	1.18	32:38	1.001	0.996-1.006	56.3701
PCB-39	1.28e+08	1.12	y	1.12	31:13	0.948	0.943-0.953	54.3169	PCB-96	5.66e+07	1.62	y	1.14	33:53	1.039	1.034-1.044	54.5595
PCB-38	1.30e+08	1.10	y	1.20	31:58	0.971	0.966-0.976	51.2600	PCB-103	4.78e+07	1.61	y	0.96	34:26	1.056	1.050-1.060	54.7679
PCB-35	1.53e+08	1.11	y	1.23	32:30	0.987	0.982-0.992	58.6611	PCB-100	4.75e+07	1.58	y	0.94	34:46	1.066	1.061-1.071	55.5593
PCB-37	1.48e+08	1.12	y	1.23	32:56	1.001	0.995-1.005	56.7809	PCB-94	3.90e+07	1.60	y	1.06	35:15	0.985	0.980-0.990	52.0090
PCB-54	8.75e+07	0.79	y	1.10	27:57	1.001	0.996-1.006	52.6081	PCB-95/98/102	1.42e+08	1.62	y	1.22	35:44	0.999	0.995-1.005	163.280
PCB-50	7.06e+07	0.80	y	0.88	29:07	1.042	1.037-1.047	53.1481	PCB-93	3.05e+07	1.65	y	0.84	35:52	1.003	0.997-1.007	50.9496
PCB-53	7.34e+07	0.79	y	1.06	29:45	0.946	0.942-0.952	54.9121	PCB-88/91	8.81e+07	1.61	y	1.12	36:09	1.011	1.005-1.015	111.153
PCB-51	6.63e+07	0.80	y	0.99	30:06	0.957	0.952-0.962	53.2479	PCB-121	6.16e+07	1.62	y	1.62	36:16	1.014	1.009-1.019	53.7770
PCB-45	5.92e+07	0.80	y	0.86	30:32	0.970	0.966-0.976	54.5327	PCB-84/92	8.45e+07	1.61	y	1.05	37:05	0.990	0.985-0.995	108.819
PCB-46	5.76e+07	0.79	y	0.85	31:01	0.986	0.981-0.991	54.2908	PCB-89	4.41e+07	1.58	y	1.13	37:16	0.995	0.991-1.001	52.5087

Integrations
by
Analyst: DMS
Date: 3/19/15
Reviewed
by
Analyst: _____
Date: _____

Client ID: PCB CS3 14K1102
Lab ID: ST150318E1-1

Filename: 150318E1 S:1 Acq:18-MAR-15 09:59:47 ConCal: ST150318E1-1
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	9.03e+07	1.61	y	1.10	37:28	1.000	0.995-1.005	110.461	PCB-133/142	9.17e+07	1.26	y	0.82	42:22	0.982	0.977-0.987	93.5166
PCB-113	5.91e+07	1.60	y	1.41	37:42	1.007	1.002-1.012	56.4456	PCB-131	5.18e+07	1.25	y	0.91	42:33	0.986	0.981-0.991	47.6086
PCB-99	5.21e+07	1.60	y	1.34	37:48	1.009	1.004-1.014	52.5033	PCB-146/165	1.44e+08	1.23	y	1.25	42:46	0.991	0.986-0.996	96.5208
PCB-119	5.72e+07	1.56	y	1.53	38:15	0.987	0.982-0.992	54.5424	PCB-132/161	1.26e+08	1.24	y	1.10	43:01	0.997	0.992-1.002	95.3490
PCB-108/112	9.51e+07	1.61	y	1.28	38:25	0.991	0.986-0.996	108.493	PCB-153	7.25e+07	1.24	y	1.25	43:11	1.000	0.995-1.005	48.5013
PCB-83	5.63e+07	1.61	y	1.52	38:35	0.996	0.990-1.000	54.1735	PCB-168	8.40e+07	1.24	y	1.45	43:24	1.006	1.001-1.011	48.3955
PCB-97	4.27e+07	1.64	y	1.18	38:46	1.000	0.995-1.005	52.7997	PCB-141	6.06e+07	1.23	y	1.09	43:55	1.000	0.995-1.005	49.5823
PCB-86	3.37e+07	1.48	y	0.84	38:54	1.004	0.999-1.009	58.4511	PCB-137	5.91e+07	1.25	y	1.06	44:18	1.009	1.004-1.014	49.3772
B-87/117/125	1.75e+08	1.64	y	1.55	39:02	1.007	1.002-1.012	165.378	PCB-130	4.91e+07	1.25	y	0.96	44:24	1.011	1.006-1.016	45.1724
PCB-111/115	1.19e+08	1.61	y	1.63	39:11	1.011	1.006-1.016	106.673	PCB-138/163/164	2.31e+08	1.24	y	1.29	44:46	1.001	0.996-1.006	156.125
PCB-85/116	1.06e+08	1.61	y	1.30	39:19	1.015	1.010-1.020	118.735	PCB-158/160	1.58e+08	1.23	y	1.34	45:01	1.006	1.001-1.011	102.610
PCB-120	6.33e+07	1.60	y	1.68	39:34	1.021	1.016-1.026	55.1286	PCB-129	5.13e+07	1.27	y	0.85	45:15	1.011	1.007-1.017	52.4735
PCB-110	6.18e+07	1.61	y	1.56	39:42	1.025	1.020-1.030	57.9803	PCB-166	7.88e+07	1.23	y	1.19	45:42	0.993	0.988-0.998	47.4479
PCB-82	3.82e+07	1.63	y	0.76	40:19	0.976	0.971-0.981	52.8483	PCB-159	8.16e+07	1.24	y	1.11	46:02	1.000	0.996-1.006	52.3615
PCB-124	7.46e+07	1.60	y	1.47	41:00	0.993	0.988-0.998	53.2750	PCB-128/162	1.47e+08	1.26	y	1.05	46:19	1.007	1.002-1.012	100.427
PCB-107/109	1.28e+08	1.62	y	1.32	41:09	0.996	0.991-1.001	101.957	PCB-167	9.48e+07	1.25	y	1.20	46:43	1.000	0.995-1.005	51.2751
PCB-123	5.91e+07	1.60	y	1.17	41:20	1.001	0.996-1.006	53.1336	PCB-156	8.97e+07	1.24	y	1.14	48:00	1.000	0.996-1.006	52.4309
PCB-106/118	1.24e+08	1.63	y	1.17	41:32	1.001	0.996-1.006	105.997	PCB-157	9.12e+07	1.25	y	1.16	48:16	1.000	0.995-1.005	50.1619
PCB-114	1.06e+08	1.58	y	1.30	42:10	1.001	0.995-1.005	51.2802	PCB-169	8.98e+07	1.24	y	1.12	50:26	1.000	0.995-1.005	50.3260
PCB-122	9.20e+07	1.65	y	1.12	42:18	1.004	0.999-1.009	51.5704									
PCB-105	1.09e+08	1.60	y	1.30	43:02	1.001	0.995-1.005	53.3975	PCB-188	6.74e+07	1.08	y	1.58	42:49	1.001	0.996-1.006	51.7581
PCB-127	1.20e+08	1.63	y	1.33	43:21	1.000	0.996-1.006	52.2841	PCB-184	6.98e+07	1.07	y	1.63	43:16	1.011	1.006-1.016	51.8768
PCB-126	1.04e+08	1.61	y	1.18	45:15	1.000	0.995-1.005	54.8932	PCB-179	5.54e+07	1.08	y	1.30	44:02	1.029	1.024-1.034	51.5052
									PCB-176	6.22e+07	1.09	y	1.48	44:30	1.040	1.035-1.045	51.0944
PCB-155	3.64e+07	1.30	y	1.11	37:00	1.000	0.966-1.006	53.3097	PCB-186	6.33e+07	1.08	y	1.45	45:07	1.054	1.050-1.060	52.8146
PCB-150	3.41e+07	1.27	y	1.00	38:17	1.035	1.030-1.040	55.7683	PCB-178	4.51e+07	1.06	y	1.03	45:36	1.065	1.061-1.071	52.8629
PCB-152	3.78e+07	1.31	y	1.12	38:45	1.048	1.043-1.053	55.2167	PCB-175	4.46e+07	1.06	y	1.01	45:56	1.074	1.069-1.079	53.3735
PCB-145	4.18e+07	1.27	y	1.20	39:11	1.059	1.055-1.065	56.8049	PCB-182/187	1.10e+08	1.08	y	1.25	46:07	1.078	1.073-1.083	106.539
PCB-136	4.17e+07	1.31	y	1.18	39:30	1.068	1.064-1.074	57.7128	PCB-183	5.31e+07	1.06	y	1.21	46:26	1.085	1.081-1.091	53.2514
PCB-148	2.46e+07	1.29	y	0.74	39:37	1.071	1.066-1.076	53.8529	PCB-185	6.14e+07	1.06	y	1.80	47:06	0.956	0.951-0.961	50.7841
PCB-154	3.04e+07	1.26	y	0.86	40:07	1.085	1.080-1.090	57.8483	PCB-174	4.58e+07	1.06	y	1.38	47:27	0.963	0.958-0.968	49.4784
PCB-151	2.68e+07	1.28	y	0.75	40:44	1.101	1.097-1.107	58.6369	PCB-181	5.04e+07	1.08	y	1.38	47:33	0.965	0.960-0.970	54.3947
PCB-135	2.87e+07	1.27	y	0.79	40:58	1.108	1.103-1.113	59.0086	PCB-177	4.36e+07	1.08	y	1.26	47:44	0.969	0.963-0.973	51.7315
PCB-144	2.87e+07	1.28	y	0.76	41:05	1.111	1.105-1.117	61.5348	PCB-171	5.50e+07	1.08	y	1.58	48:01	0.975	0.970-0.980	51.7045
PCB-147	3.06e+07	1.30	y	0.82	41:12	1.114	1.109-1.121	60.9603	PCB-173	3.96e+07	1.06	y	1.11	48:27	0.983	0.978-0.988	53.1133
PCB-139/149	5.63e+07	1.27	y	0.76	41:27	1.121	1.116-1.128	120.483	PCB-172	5.82e+07	1.07	y	1.63	48:53	0.992	0.987-0.997	53.0008
PCB-140	2.65e+07	1.30	y	0.72	41:39	1.126	1.121-1.133	59.8412	PCB-192	6.40e+07	1.07	y	1.74	49:05	0.996	0.991-1.001	54.7450
PCB-134/143	1.04e+08	1.23	y	0.92	42:05	0.975	0.970-0.980	94.7123	PCB-180	4.74e+07	1.07	y	1.34	49:18	1.000	0.995-1.005	52.5186

Integrations
by
Analyst: *Dms*
Date: *3/19/15*

Client ID: PCB CS3 14K1102
Lab ID: ST150318E1-1

Filename: 150318E1 S:1 Acq:18-MAR-15 09:59:47
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150318E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RT	RRF	Conc
PCB-193	6.13e+07	1.07 y	1.72	49:30	1.005	0.999-1.009		53.2013	Total Mono-PCB	3.98e+08	2.98 y	16:07	1.27	130.823
PCB-191	6.02e+07	1.07 y	1.69	49:45	1.010	1.004-1.014		52.9142	Total Di-PCB	3.30e+09	1.64 y	20:05	1.21	1250.38
PCB-170	4.74e+07	1.08 y	1.60	50:48	1.000	0.995-1.005		52.4653	Total Tri-PCB	7.21e+08	1.09 y	24:12	1.10	419.207
PCB-190	6.62e+07	1.06 y	2.21	50:58	1.004	0.998-1.008		52.9871	Total Tri-PCB	2.28e+09	1.10 y	27:54	1.21	894.818
PCB-189	6.21e+07	1.07 y	1.55	52:19	1.000	0.995-1.005		51.3793	Total Tetra-PCB	3.76e+09	0.79 y	27:57	1.09	2331.76
									Total Penta-PCB	2.14e+09	1.60 y	32:38	1.18	2235.54
PCB-202	3.89e+07	0.92 y	1.08	48:13	1.001	0.995-1.005		50.9695	Total Penta-PCB	5.57e+08	1.58 y	42:10	1.25	276.538
PCB-201	4.27e+07	0.93 y	1.15	48:42	1.011	1.005-1.015		52.7684	Total Hexa-PCB	4.44e+08	1.30 y	37:00	0.90	810.979
PCB-204	4.06e+07	0.92 y	1.14	48:52	1.014	1.008-1.018		50.6622	Total Hexa-PCB	1.99e+09	1.23 y	42:05	1.11	1407.04
PCB-197	3.89e+07	0.92 y	1.07	49:09	1.020	1.015-1.025		51.3701	Total Hepta-PCB	1.35e+09	1.08 y	42:49	1.42	1272.47
PCB-200	3.93e+07	0.92 y	1.06	50:03	1.039	1.032-1.044		52.5204	Total Octa-PCB	3.28e+08	0.92 y	48:13	0.96	487.893
PCB-198	3.04e+07	0.90 y	0.76	51:24	1.066	1.059-1.069		57.1544	Total Octa-PCB	2.28e+08	0.93 y	52:57	1.33	145.845
PCB-199	3.13e+07	0.91 y	0.80	51:30	1.069	1.061-1.071		55.7696	Total Nona-PCB	1.85e+08	1.33 y	53:06	1.01	155.945
- PCB-196/203	6.59e+07	0.92 y	0.80	51:47	1.074	1.066-1.076		116.679	Total Deca-PCB	5.69e+07	1.18 y	56:48	1.17	52.4032
- PCB-195	6.19e+07	0.93 y	1.23	52:57	0.984	0.979-0.989		43.1686						
PCB-194	6.76e+07	0.92 y	1.21	53:49	1.000	0.995-1.005		47.6950						
PCB-205	9.23e+07	0.92 y	1.54	54:06	1.006	1.001-1.011		51.2187						
														Total PCB Conc:11795.8760210
PCB-208	6.24e+07	1.33 y	0.93	53:06	1.000	0.995-1.005		51.5636						
PCB-207	7.49e+07	1.34 y	1.08	53:24	1.006	1.001-1.011		53.1980						
PCB-206	4.71e+07	1.35 y	1.02	55:26	1.000	0.995-1.005		50.5127						
PCB-209	5.69e+07	1.18 y	1.17	56:48	1.000	0.995-1.005		52.4032						

Integrations
by
Analyst: *Dms*
Date: *3/19/15*

Client ID: PCB CS3 14K1102
Lab ID: ST150318E1-1

Filename: 150318E1 S:1 Acq:18-MAR-15 09:59:47
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

ConCal: ST150318E1-1
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	2.27e+08	3.20 y	0.87	16:06	0.622	0.629-0.635		101	101											
13C-PCB-3	2.46e+08	3.22 y	0.91	18:43	0.722	0.725-0.733		105	105		13C-PCB-79	1.77e+08	0.82 y	1.02	37:46	1.029	1.023-1.034		98.4	98.4
13C-PCB-4	1.49e+08	1.61 y	0.59	20:03	0.774	0.775-0.783		98.6	98.6		13C-PCB-178	5.68e+07	0.47 y	0.61	45:34	0.985	0.979-0.990		83.9	83.9
13C-PCB-9	2.20e+08	1.60 y	0.90	21:50	0.843	0.842-0.850		95.2	95.2											
13C-PCB-11	2.35e+08	1.59 y	0.94	25:12	0.973	0.968-0.978		97.4	97.4											
13C-PCB-19	1.19e+08	1.09 y	0.53	24:11	0.933	0.930-0.940		86.8	86.8											
13C-PCB-28	2.11e+08	1.09 y	0.93	29:03	1.004	0.999-1.009		106	106		13C-PCB-79	1.77e+08	0.82 y	1.10	37:46	0.968	0.964-0.974		94.5	94.5
13C-PCB-32	1.76e+08	1.10 y	0.80	27:06	1.046	1.040-1.050		86.0	86.0		13C-PCB-178	5.68e+07	0.47 y	0.90	45:34	0.925	0.920-0.930		94.2	94.2
13C-PCB-37	2.12e+08	1.09 y	0.84	32:55	1.137	1.131-1.143		118	118											
13C-PCB-47	1.32e+08	0.80 y	0.81	31:58	0.871	0.866-0.874		91.5	91.5											
13C-PCB-52	1.26e+08	0.82 y	0.77	31:27	0.857	0.853-0.861		91.8	91.8											
13C-PCB-54	1.51e+08	0.82 y	0.97	27:56	0.761	0.758-0.766		87.6	87.6											
13C-PCB-70	1.71e+08	0.83 y	1.00	35:28	0.966	0.961-0.971		96.5	96.5											
13C-PCB-77	1.76e+08	0.81 y	0.94	39:35	1.078	1.073-1.083		106	106											
13C-PCB-80	1.81e+08	0.81 y	1.03	35:53	0.978	0.972-0.982		98.8	98.8											
13C-PCB-81	1.70e+08	0.81 y	0.92	38:60	1.062	1.057-1.067		104	104											
13C-PCB-95	7.10e+07	1.62 y	0.74	35:46	0.913	0.908-0.918		96.4	96.4											
13C-PCB-97	6.85e+07	1.67 y	0.70	38:45	0.989	0.984-0.994		97.8	97.8											
13C-PCB-101	7.43e+07	1.61 y	0.78	37:27	0.956	0.951-0.961		95.4	95.4		13C-PCB-15	2.57e+08	1.60 y	1.00	25:54			100		
13C-PCB-104	9.11e+07	1.62 y	1.00	32:37	0.832	0.828-0.836		91.5	91.5		13C-PCB-31	2.14e+08	1.08 y	1.00	28:56			100		
13C-PCB-105	1.58e+08	1.64 y	1.37	43:00	0.929	0.924-0.934		105	105		13C-PCB-60	1.77e+08	0.82 y	1.00	36:42			100		
13C-PCB-114	1.59e+08	1.63 y	1.36	42:09	0.910	0.905-0.915		106	106		13C-PCB-111	9.94e+07	1.63 y	1.00	39:11			100		
13C-PCB-118	9.97e+07	1.63 y	0.96	41:30	1.059	1.054-1.064		105	105		13C-PCB-128	1.10e+08	1.32 y	1.00	46:17			100		
13C-PCB-123	9.52e+07	1.62 y	0.89	41:18	1.054	1.050-1.060		107	107		13C-PCB-205	1.53e+08	0.91 y	1.00	54:05			100		
13C-PCB-126	1.60e+08	1.64 y	1.31	45:14	0.977	0.972-0.982		111	111											
13C-PCB-127	1.72e+08	1.63 y	1.47	43:20	0.936	0.931-0.941		106	106											
13C-PCB-138	1.15e+08	1.31 y	1.10	44:44	0.967	0.961-0.971		94.4	94.4											
13C-PCB-141	1.13e+08	1.29 y	1.07	43:54	0.948	0.943-0.953		95.0	95.0											
13C-PCB-153	1.20e+08	1.29 y	1.15	43:10	0.933	0.927-0.937		94.7	94.7											
13C-PCB-155	6.13e+07	1.32 y	0.84	36:59	0.944	0.939-0.949		73.4	73.4											
13C-PCB-156	1.51e+08	1.29 y	1.30	47:60	1.037	1.032-1.042		105	105											
13C-PCB-157	1.56e+08	1.29 y	1.36	48:16	1.043	1.038-1.048		104	104											
13C-PCB-159	1.40e+08	1.30 y	1.25	46:01	0.994	0.989-0.999		102	102											
13C-PCB-167	1.54e+08	1.30 y	1.35	46:42	1.009	1.004-1.014		103	103											
13C-PCB-169	1.60e+08	1.29 y	1.29	50:25	1.089	1.083-1.093		113	113											
13C-PCB-170	5.66e+07	0.47 y	0.54	50:47	1.097	1.089-1.101		94.5	94.5											
13C-PCB-180	6.72e+07	0.48 y	0.68	49:16	1.065	1.060-1.070		89.0	89.0											
13C-PCB-188	8.24e+07	0.47 y	0.92	42:48	0.925	0.919-0.929		81.4	81.4											
13C-PCB-189	7.80e+07	0.45 y	0.72	52:18	1.130	1.120-1.132		98.6	98.6											
13C-PCB-194	1.17e+08	0.93 y	0.80	53:48	0.995	0.990-1.000		96.1	96.1											
13C-PCB-202	7.04e+07	0.93 y	0.84	48:12	1.041	1.036-1.046		76.2	76.2											
13C-PCB-206	9.11e+07	0.79 y	0.65	55:25	1.025	1.021-1.031		91.9	91.9											
13C-PCB-208	1.30e+08	0.78 y	1.08	53:05	0.982	0.976-0.986		78.9	78.9											
13C-PCB-209	9.28e+07	1.20 y	0.61	56:47	1.050	1.045-1.055		99.7	99.7											

Analyst: DMS

Date: 3/19/15

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150318E1	1	ST150318E1-1	DMS	18-MAR-15	09:59:47	ST150318E1-1	NA
150318E1	2	B5C0059-BS1	DMS	18-MAR-15	11:04:10	ST150318E1-1	NA
150318E1	3	SOLVENT BLANK	DMS	18-MAR-15	12:08:39	ST150318E1-1	NA
150318E1	4	B5C0059-BLK1	DMS	18-MAR-15	13:13:08	ST150318E1-1	NA
150318E1	5	1400915-02RE1	DMS	18-MAR-15	14:17:36	ST150318E1-1	NA
150318E1	6	1400915-03RE1	DMS	18-MAR-15	15:22:05	ST150318E1-1	NA
150318E1	7	1400915-04RE1	DMS	18-MAR-15	16:26:29	ST150318E1-1	NA
150318E1	8	1400915-05RE1	DMS	18-MAR-15	17:30:54	ST150318E1-1	NA
150318E1	9	1400948-01RE1	DMS	18-MAR-15	18:35:16	ST150318E1-1	NA
150318E1	10	1400948-02RE1	DMS	18-MAR-15	19:39:45	ST150318E1-1	NA
150318E1	11	1400948-03RE1	DMS	18-MAR-15	20:44:12	ST150318E1-1	NA
150318E1	12	SOLVENT BLANK	DMS	18-MAR-15	21:48:42	ST150318E1-1	NA
150318E1	13	QC150318E1-1	DMS	18-MAR-15	22:53:09	ST150318E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST150318E1-1

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"/> DMF 3/19/15	<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 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: MM 3/19/15
Initials & Date

* Ending standard criteria applicable to 8290 only.

Lab Name: Vista Analytical Laboratory Lab ID: ST150319E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150319E1 S#1 Analysis Date: 19-MAR-15 Time: 12:47:35

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	2.98	2.66-3.60	y	43.4	37.5-62.5	PCB-52/69	0.78	0.65-0.89	y	104.9	75.0-125
PCB-2	3.01	2.66-3.60	y	40.0	37.5-62.5	PCB-73	0.81	0.65-0.89	y	56.7	37.5-62.5
PCB-3	3.00	2.66-3.60	y	40.4	37.5-62.5	PCB-43/49	0.79	0.65-0.89	y	106.0	75.0-125
PCB-4/10	1.61	1.33-1.79	y	185.1	150-250	PCB-47	0.78	0.65-0.89	y	51.9	37.5-62.5
PCB-7/9	1.62	1.33-1.79	y	187.3	150-250	PCB-48/75	0.78	0.65-0.89	y	108.4	75.0-125
PCB-6	1.61	1.33-1.79	y	90.3	75.0-125	PCB-65	0.88	0.65-0.89	y	55.9	37.5-62.5
PCB-5/8	1.61	1.33-1.79	y	185.8	150-250	PCB-62	0.69	0.65-0.89	y	55.7	37.5-62.5
PCB-14	1.61	1.33-1.79	y	94.9	75.0-125	PCB-44	0.79	0.65-0.89	y	55.2	37.5-62.5
PCB-11	1.63	1.33-1.79	y	95.3	75.0-125	PCB-42/59	0.80	0.65-0.89	y	106.9	75.0-125
PCB-12/13	1.62	1.33-1.79	y	189.1	150-250	PCB-41/64/71/72	0.78	0.65-0.89	y	216.0	150-250
PCB-15	1.61	1.33-1.79	y	95.4	75.0-125	PCB-68	0.78	0.65-0.89	y	55.0	37.5-62.5
PCB-19	1.07	0.88-1.20	y	51.4	37.5-62.5	PCB-40	0.79	0.65-0.89	y	56.5	37.5-62.5
PCB-30	1.06	0.88-1.20	y	50.1	37.5-62.5	PCB-57	0.79	0.65-0.89	y	54.7	37.5-62.5
PCB-18	1.07	0.88-1.20	y	51.3	37.5-62.5	PCB-67	0.86	0.65-0.89	y	51.6	37.5-62.5
PCB-17	1.07	0.88-1.20	y	50.7	37.5-62.5	PCB-58	0.73	0.65-0.89	y	54.0	37.5-62.5
PCB-24/27	1.07	0.88-1.20	y	100.9	75.0-125	PCB-63	0.77	0.65-0.89	y	52.6	37.5-62.5
PCB-16/32	1.07	0.88-1.20	y	101.9	75.0-125	PCB-74	0.78	0.65-0.89	y	51.7	37.5-62.5
PCB-34	1.08	0.88-1.20	y	51.0	37.5-62.5	PCB-61/70	0.78	0.65-0.89	y	110.8	75.0-125
PCB-23	1.12	0.88-1.20	y	48.7	37.5-62.5	PCB-76/66	0.78	0.65-0.89	y	104.4	75.0-125
PCB-29	1.09	0.88-1.20	y	50.9	37.5-62.5	PCB-80	0.79	0.65-0.89	y	53.5	37.5-62.5
PCB-26	1.10	0.88-1.20	y	51.4	37.5-62.5	PCB-55	0.78	0.65-0.89	y	53.7	37.5-62.5
PCB-25	1.09	0.88-1.20	y	54.0	37.5-62.5	PCB-56/60	0.78	0.65-0.89	y	109.1	75.0-125
PCB-31	1.09	0.88-1.20	y	51.5	37.5-62.5	PCB-79	0.79	0.65-0.89	y	53.8	37.5-62.5
PCB-28	1.11	0.88-1.20	y	50.2	37.5-62.5	PCB-78	0.77	0.65-0.89	y	51.5	37.5-62.5
PCB-20/21/33	1.07	0.88-1.20	y	172.8	112.5-225	PCB-81	0.79	0.65-0.89	y	51.7	37.5-62.5
PCB-22	1.09	0.88-1.20	y	54.6	37.5-62.5	PCB-77	0.80	0.65-0.89	y	52.0	37.5-62.5
PCB-36	1.10	0.88-1.20	y	54.5	37.5-62.5	PCB-104	1.61	1.32-1.78	y	53.1	37.5-62.5
PCB-39	1.09	0.88-1.20	y	52.5	37.5-62.5	PCB-96	1.64	1.32-1.78	y	52.7	37.5-62.5
PCB-38	1.09	0.88-1.20	y	49.5	37.5-62.5	PCB-103	1.62	1.32-1.78	y	51.4	37.5-62.5
PCB-35	1.10	0.88-1.20	y	57.4	37.5-62.5	PCB-100	1.60	1.32-1.78	y	51.5	37.5-62.5
PCB-37	1.11	0.88-1.20	y	52.3	37.5-62.5	PCB-94	1.60	1.32-1.78	y	49.4	37.5-62.5
PCB-54	0.79	0.65-0.89	y	52.7	37.5-62.5	PCB-95/98/102	1.59	1.32-1.78	y	148.3	112.5-225
PCB-50	0.79	0.65-0.89	y	54.3	37.5-62.5	PCB-93	1.62	1.32-1.78	y	52.1	37.5-62.5
PCB-53	0.78	0.65-0.89	y	55.2	37.5-62.5	PCB-88/91	1.61	1.32-1.78	y	108.4	75.0-125
PCB-51	0.79	0.65-0.89	y	52.9	37.5-62.5	PCB-121	1.62	1.32-1.78	y	45.6	37.5-62.5
PCB-45	0.78	0.65-0.89	y	53.5	37.5-62.5						
PCB-46	0.79	0.65-0.89	y	53.6	37.5-62.5						

Analyst: Dms

Date: 3/20/15

Lab Name: Vista Analytical Laboratory Lab ID: ST150319E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150319E1 S#1 Analysis Date: 19-MAR-15 Time: 12:47:35

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	1.60	1.32-1.78	y	102.5	75.0-125	PCB-140	1.32	1.05-1.43	y	58.3	37.5-62.5
PCB-89	1.61	1.32-1.78	y	50.2	37.5-62.5	PCB-134/143	1.25	1.05-1.43	y	105.7	75.0-125
PCB-90/101	1.61	1.32-1.78	y	105.3	75.0-125	PCB-133/142	1.25	1.05-1.43	y	106.4	75.0-125
PCB-113	1.61	1.32-1.78	y	49.6	37.5-62.5	PCB-131	1.26	1.05-1.43	y	50.9	37.5-62.5
PCB-99	1.64	1.32-1.78	y	53.3	37.5-62.5	PCB-146/165	1.25	1.05-1.43	y	102.8	75.0-125
PCB-119	1.60	1.32-1.78	y	51.2	37.5-62.5	PCB-132/161	1.24	1.05-1.43	y	103.2	75.0-125
PCB-108/112	1.61	1.32-1.78	y	99.9	75.0-125	PCB-153	1.23	1.05-1.43	y	48.8	37.5-62.5
PCB-83	1.62	1.32-1.78	y	47.9	37.5-62.5	PCB-168	1.25	1.05-1.43	y	48.8	37.5-62.5
PCB-97	1.56	1.32-1.78	y	50.6	37.5-62.5	PCB-141	1.25	1.05-1.43	y	48.2	37.5-62.5
PCB-86	1.57	1.32-1.78	y	47.9	37.5-62.5	PCB-137	1.23	1.05-1.43	y	51.6	37.5-62.5
PCB-87/117/125	1.61	1.32-1.78	y	155.1	112.5-225	PCB-130	1.28	1.05-1.43	y	44.9	37.5-62.5
PCB-111/115	1.59	1.32-1.78	y	99.5	75.0-125	PCB-138/163/164	1.23	1.05-1.43	y	144.5	112.5-225
PCB-85/116	1.64	1.32-1.78	y	102.1	75.0-125	PCB-158/160	1.25	1.05-1.43	y	102.0	75.0-125
PCB-120	1.59	1.32-1.78	y	52.3	37.5-62.5	PCB-129	1.22	1.05-1.43	y	51.1	37.5-62.5
PCB-110	1.62	1.32-1.78	y	50.1	37.5-62.5	PCB-166	1.23	1.05-1.43	y	52.4	37.5-62.5
PCB-82	1.59	1.32-1.78	y	50.6	37.5-62.5	PCB-159	1.27	1.05-1.43	y	51.6	37.5-62.5
PCB-124	1.78	1.32-1.78	y	50.8	37.5-62.5	PCB-128/162	1.24	1.05-1.43	y	97.9	75.0-125
PCB-107/109	1.51	1.32-1.78	y	102.6	75.0-125	PCB-167	1.24	1.05-1.43	y	50.5	37.5-62.5
PCB-123	1.64	1.32-1.78	y	50.3	37.5-62.5	PCB-156	1.22	1.05-1.43	y	50.4	37.5-62.5
PCB-106/118	1.60	1.32-1.78	y	99.5	75.0-125	PCB-157	1.24	1.05-1.43	y	49.1	37.5-62.5
PCB-114	1.64	1.32-1.78	y	51.5	37.5-62.5	PCB-169	1.24	1.05-1.43	y	48.4	37.5-62.5
PCB-122	1.61	1.32-1.78	y	56.4	37.5-62.5	PCB-188	1.07	0.89-1.21	y	51.1	37.5-62.5
PCB-105	1.57	1.32-1.78	y	52.1	37.5-62.5	PCB-184	1.08	0.89-1.21	y	51.7	37.5-62.5
PCB-127	1.68	1.32-1.78	y	54.4	37.5-62.5	PCB-179	1.08	0.89-1.21	y	49.6	37.5-62.5
PCB-126	1.64	1.32-1.78	y	55.5	37.5-62.5	PCB-176	1.08	0.89-1.21	y	49.6	37.5-62.5
PCB-155	1.31	1.05-1.43	y	54.4	37.5-62.5	PCB-186	1.08	0.89-1.21	y	50.6	37.5-62.5
PCB-150	1.29	1.05-1.43	y	54.8	37.5-62.5	PCB-178	1.06	0.89-1.21	y	51.2	37.5-62.5
PCB-152	1.30	1.05-1.43	y	53.4	37.5-62.5	PCB-175	1.07	0.89-1.21	y	50.5	37.5-62.5
PCB-145	1.30	1.05-1.43	y	53.5	37.5-62.5	PCB-182/187	1.07	0.89-1.21	y	99.8	75.0-125
PCB-136	1.31	1.05-1.43	y	55.8	37.5-62.5	PCB-183	1.07	0.89-1.21	y	51.1	37.5-62.5
PCB-148	1.27	1.05-1.43	y	57.2	37.5-62.5	PCB-185	1.05	0.89-1.21	y	52.9	37.5-62.5
PCB-154	1.32	1.05-1.43	y	57.3	37.5-62.5	PCB-174	1.07	0.89-1.21	y	53.2	37.5-62.5
PCB-151	1.28	1.05-1.43	y	56.7	37.5-62.5	PCB-181	1.08	0.89-1.21	y	52.5	37.5-62.5
PCB-135	1.29	1.05-1.43	y	53.8	37.5-62.5	PCB-177	1.08	0.89-1.21	y	49.6	37.5-62.5
PCB-144	1.27	1.05-1.43	y	62.1	37.5-62.5	PCB-171	1.08	0.89-1.21	y	50.5	37.5-62.5
PCB-147	1.28	1.05-1.43	y	58.0	37.5-62.5	PCB-173	1.07	0.89-1.21	y	51.4	37.5-62.5
PCB-139/149	1.30	1.05-1.43	y	114.9	75.0-125	PCB-172	1.08	0.89-1.21	y	50.0	37.5-62.5

Analyst: *DMS*

Date: *3/20/15*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Page 2 of

Lab Name: Vista Analytical Laboratory Lab ID: ST150319E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150319E1 S#1 Analysis Date: 19-MAR-15 Time: 12:47:35

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		CONC.	RANGE
	RATIO			FOUND	(ng/mL)
PCB-192	1.07	0.89-1.21	y	52.4	37.5-62.5
PCB-180	1.05	0.89-1.21	y	50.5	37.5-62.5
PCB-193	1.08	0.89-1.21	y	54.9	37.5-62.5
PCB-191	1.07	0.89-1.21	y	51.3	37.5-62.5
PCB-170	1.07	0.89-1.21	y	50.1	37.5-62.5
PCB-190	1.08	0.89-1.21	y	51.9	37.5-62.5
PCB-189	1.06	0.89-1.21	y	52.0	37.5-62.5
PCB-202	0.91	0.76-1.02	y	51.6	37.5-62.5
PCB-201	0.92	0.76-1.02	y	50.6	37.5-62.5
PCB-204	0.92	0.76-1.02	y	51.7	37.5-62.5
PCB-197	0.91	0.76-1.02	y	52.5	37.5-62.5
PCB-200	0.92	0.76-1.02	y	53.0	37.5-62.5
PCB-198	0.90	0.76-1.02	y	57.7	37.5-62.5
PCB-199	0.93	0.76-1.02	y	52.1	37.5-62.5
PCB-196/203	0.92	0.76-1.02	y	106.1	75.0-125
PCB-195	0.91	0.76-1.02	y	43.9	37.5-62.5
PCB-194	0.92	0.76-1.02	y	47.6	37.5-62.5
PCB-205	0.93	0.76-1.02	y	51.7	37.5-62.5
PCB-208	1.35	1.14-1.54	y	51.9	37.5-62.5
PCB-207	1.35	1.14-1.54	y	52.8	37.5-62.5
PCB-206	1.30	1.14-1.54	y	50.3	37.5-62.5
PCB-209	1.19	0.99-1.33	y	51.3	37.5-62.5

Analyst: DmsDate: 3/20/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150319E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150319E1 S#1 Analysis Date: 19-MAR-15 Time: 12:47:35

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	3.21	2.66-3.60	Y	107.4	50.0-145	13C-PCB-169	1.29	1.05-1.43	Y	107.5	50 - 145
13C-PCB-3	3.24	2.66-3.60	Y	115.5	50.0-145	13C-PCB-188	0.46	0.38-0.52	Y	87.4	50 - 145
13C-PCB-4	1.59	1.33-1.79	Y	99.6	50.0-145	13C-PCB-180	0.47	0.38-0.52	Y	89.6	50 - 145
13C-PCB-9	1.58	1.33-1.79	Y	97.1	50.0-145	13C-PCB-170	0.47	0.38-0.52	Y	87.9	50 - 145
13C-PCB-11	1.56	1.33-1.79	Y	97.4	50.0-145	13C-PCB-189	0.47	0.38-0.52	Y	92.1	50 - 145
13C-PCB-19	1.07	0.88-1.20	Y	93.6	50.0-145	13C-PCB-202	0.96	0.76-1.02	Y	79.5	50 - 145
13C-PCB-32	1.09	0.88-1.20	Y	93.7	50.0-145	13C-PCB-194	0.92	0.76-1.02	Y	92.7	50 - 145
13C-PCB-28	1.07	0.88-1.20	Y	98.3	50.0-145	13C-PCB-208	0.80	0.65-0.89	Y	83.5	50 - 145
13C-PCB-37	1.09	0.88-1.20	Y	105.4	50.0-145	13C-PCB-206	0.80	0.65-0.89	Y	100.0	50 - 145
13C-PCB-54	0.81	0.65-0.89	Y	89.5	50.0-145	13C-PCB-209	1.20	0.99-1.33	Y	104.4	50 - 145
13C-PCB-52	0.80	0.65-0.89	Y	95.0	50.0-145						
13C-PCB-47	0.81	0.65-0.89	Y	94.1	50.0-145						
13C-PCB-70	0.82	0.65-0.89	Y	96.6	50.0-145						
13C-PCB-80	0.82	0.65-0.89	Y	97.2	50.0-145						
13C-PCB-81	0.82	0.65-0.89	Y	97.4	50.0-145						
13C-PCB-77	0.81	0.65-0.89	Y	99.4	50.0-145						
13C-PCB-104	1.58	1.32-1.78	Y	95.2	50.0-145						
13C-PCB-95	1.60	1.32-1.78	Y	100.8	50.0-145						
13C-PCB-101	1.66	1.32-1.78	Y	100.6	50.0-145						
13C-PCB-97	1.63	1.32-1.78	Y	100.4	50.0-145	CRS vs. RS					
13C-PCB-123	1.61	1.32-1.78	Y	104.1	50.0-145	13C-PCB-79	0.81	0.65-0.89	Y	99.2	75 - 125
13C-PCB-118	1.60	1.32-1.78	Y	101.8	50.0-145	13C-PCB-178	0.47	0.38-0.52	Y	85.3	75 - 125
13C-PCB-114	1.61	1.32-1.78	Y	104.8	50.0-145						
13C-PCB-105	1.60	1.32-1.78	Y	107.9	50.0-145						
13C-PCB-127	1.59	1.32-1.78	Y	99.1	50.0-145						
13C-PCB-126	1.59	1.32-1.78	Y	105.1	50.0-145						
13C-PCB-155	1.28	1.05-1.43	Y	74.5	50.0-145						
13C-PCB-153	1.29	1.05-1.43	Y	98.6	50.0-145						
13C-PCB-141	1.28	1.05-1.43	Y	98.5	50.0-145						
13C-PCB-138	1.27	1.05-1.43	Y	97.0	50.0-145						
13C-PCB-159	1.29	1.05-1.43	Y	97.5	50.0-145						
13C-PCB-167	1.27	1.05-1.43	Y	99.1	50.0-145						
13C-PCB-156	1.29	1.05-1.43	Y	103.0	50.0-145						
13C-PCB-157	1.27	1.05-1.43	Y	100.5	50.0-145						

Analyst: DMS

Date: 3/20/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.01e+08	2.98	y	1.19	16:09	1.001	0.996-1.006	43.3920	PCB-52/69	1.48e+08	0.78	y	1.28	31:32	1.001	0.996-1.006	104.930
PCB-2	1.04e+08	3.01	y	1.18	18:32	0.988	0.984-0.994	39.9761	PCB-73	8.42e+07	0.81	y	1.35	31:39	1.005	1.000-1.010	56.7008
PCB-3	1.26e+08	3.00	y	1.43	18:46	1.001	0.996-1.006	40.3912	PCB-43/49	1.16e+08	0.79	y	0.99	31:49	1.010	1.005-1.015	106.019
PCB-4/10	3.52e+08	1.61	y	1.57	20:07	1.002	0.997-1.007	185.096	PCB-47	6.29e+07	0.78	y	1.06	32:00	1.000	0.996-1.006	51.8615
PCB-7/9	4.10e+08	1.62	y	1.21	21:54	0.868	0.866-0.874	187.316	PCB-48/75	1.52e+08	0.78	y	1.23	32:08	1.004	0.999-1.009	108.423
PCB-6	2.13e+08	1.61	y	1.30	22:33	0.894	0.890-0.899	90.2932	PCB-65	7.84e+07	0.88	y	1.22	32:24	1.013	1.008-1.018	55.9368
PCB-5/8	3.86e+08	1.61	y	1.15	22:58	0.910	0.907-0.917	185.770	PCB-62	7.78e+07	0.69	y	1.22	32:31	1.016	1.011-1.021	55.6795
PCB-14	2.00e+08	1.61	y	1.11	24:04	0.954	0.949-0.959	94.9032	PCB-44	5.43e+07	0.79	y	0.86	32:48	1.025	1.021-1.031	55.1720
PCB-11	1.96e+08	1.63	y	1.09	25:15	1.001	0.995-1.005	95.3146	PCB-42/59	1.39e+08	0.80	y	1.14	33:02	1.032	1.028-1.038	106.867
PCB-12/13	4.28e+08	1.62	y	1.19	25:39	1.016	1.011-1.021	189.104	PCB-41/64/71/72	2.99e+08	0.78	y	1.21	33:37	1.051	1.046-1.056	215.999
PCB-15	2.32e+08	1.61	y	1.28	25:57	1.028	1.023-1.033	95.3854	PCB-68	8.48e+07	0.78	y	1.35	33:53	1.059	1.054-1.064	54.9810
PCB-19	5.54e+07	1.07	y	1.04	24:14	1.001	0.996-1.006	51.4241	PCB-40	4.53e+07	0.79	y	0.70	34:05	1.065	1.061-1.071	56.4794
PCB-30	8.86e+07	1.06	y	1.71	25:08	1.038	1.032-1.042	50.1128	PCB-57	7.73e+07	0.79	y	0.98	34:27	0.970	0.965-0.975	54.6910
PCB-18	6.21e+07	1.07	y	0.78	25:53	0.954	0.949-0.959	51.3359	PCB-67	8.24e+07	0.86	y	1.11	34:45	0.979	0.974-0.984	51.5735
PCB-17	7.24e+07	1.07	y	0.92	26:03	0.960	0.956-0.966	50.6904	PCB-58	7.23e+07	0.73	y	0.93	34:53	0.982	0.977-0.987	53.9906
PCB-24/27	1.86e+08	1.07	y	1.19	26:38	0.981	0.977-0.987	100.921	PCB-63	7.23e+07	0.77	y	0.95	35:02	0.987	0.982-0.992	52.5623
PCB-16/32	1.48e+08	1.07	y	0.94	27:08	1.000	0.995-1.005	101.870	PCB-74	9.29e+07	0.78	y	1.24	35:19	0.995	0.990-1.000	51.7420
PCB-34	9.86e+07	1.08	y	1.14	27:56	0.960	0.955-0.965	51.0079	PCB-61/70	1.53e+08	0.78	y	0.95	35:29	1.000	0.995-1.005	110.835
PCB-23	1.06e+08	1.12	y	1.28	28:02	0.964	0.959-0.969	48.6560	PCB-76/66	1.57e+08	0.78	y	1.04	35:43	1.006	1.001-1.011	104.388
PCB-29	9.35e+07	1.09	y	1.08	28:17	0.972	0.967-0.977	50.9165	PCB-80	9.58e+07	0.79	y	1.19	35:57	1.001	0.996-1.006	53.4631
PCB-26	1.06e+08	1.10	y	1.21	28:29	0.979	0.974-0.984	51.4193	PCB-55	8.41e+07	0.78	y	1.04	36:16	1.009	1.005-1.015	53.7396
PCB-25	1.16e+08	1.09	y	1.26	28:38	0.984	0.979-0.989	53.9740	PCB-56/60	1.66e+08	0.78	y	1.01	36:45	1.023	1.019-1.029	109.109
PCB-31	1.13e+08	1.09	y	1.28	29:00	0.997	0.992-1.002	51.5059	PCB-79	8.73e+07	0.79	y	1.08	37:49	1.053	1.048-1.058	53.8202
PCB-28	1.46e+08	1.11	y	1.71	29:05	1.000	0.995-1.005	50.2122	PCB-78	8.81e+07	0.77	y	1.27	38:31	0.987	0.982-0.992	51.5380
PCB-20/21/33	3.18e+08	1.07	y	1.08	29:43	1.022	1.017-1.027	172.818	PCB-81	9.26e+07	0.79	y	1.33	39:02	1.000	0.995-1.005	51.7350
PCB-22	1.12e+08	1.09	y	1.21	30:09	1.037	1.032-1.042	54.6025	PCB-77	8.03e+07	0.80	y	1.10	39:38	1.000	0.995-1.005	51.9938
PCB-36	1.02e+08	1.10	y	1.14	30:47	0.934	0.928-0.938	54.4555	PCB-104	4.80e+07	1.61	y	1.18	32:40	1.001	0.996-1.006	53.0956
PCB-39	9.62e+07	1.09	y	1.12	31:14	0.948	0.943-0.953	52.4989	PCB-96	4.57e+07	1.64	y	1.14	33:55	1.039	1.034-1.044	52.6666
PCB-38	9.75e+07	1.09	y	1.20	32:00	0.971	0.966-0.976	49.4745	PCB-103	3.76e+07	1.62	y	0.96	34:27	1.055	1.050-1.060	51.4305
PCB-35	1.16e+08	1.10	y	1.23	32:32	0.987	0.982-0.992	57.4476	PCB-100	3.68e+07	1.60	y	0.94	34:49	1.066	1.061-1.071	51.5146
PCB-37	1.06e+08	1.11	y	1.23	32:58	1.000	0.995-1.005	52.2617	PCB-94	3.12e+07	1.60	y	1.06	35:17	0.986	0.980-0.990	49.4337
PCB-54	7.56e+07	0.79	y	1.10	27:59	1.001	0.996-1.006	52.7290	PCB-95/98/102	1.08e+08	1.59	y	1.22	35:47	1.000	0.995-1.005	148.250
PCB-50	6.23e+07	0.79	y	0.88	29:09	1.043	1.037-1.047	54.3478	PCB-93	2.62e+07	1.62	y	0.84	35:55	1.003	0.997-1.007	52.0802
PCB-53	6.44e+07	0.78	y	1.06	29:47	0.946	0.942-0.952	55.1602	PCB-88/91	7.23e+07	1.61	y	1.12	36:12	1.011	1.005-1.015	108.446
PCB-51	5.75e+07	0.79	y	0.99	30:08	0.957	0.952-0.962	52.8833	PCB-121	4.40e+07	1.62	y	1.62	36:18	1.014	1.009-1.019	45.5781
PCB-45	5.07e+07	0.78	y	0.86	30:34	0.971	0.966-0.976	53.5266	PCB-84/92	6.76e+07	1.60	y	1.05	37:07	0.990	0.985-0.995	102.454
PCB-46	4.97e+07	0.79	y	0.85	31:03	0.986	0.981-0.991	53.6143	PCB-89	3.57e+07	1.61	y	1.13	37:17	0.995	0.991-1.001	50.1810

Integrations

by

Analyst: DMJ

Date: 3/20/15

Reviewed

by

Analyst: _____

Date: _____

Client ID: PCB CS3 14K1102
Lab ID: ST150319E1-1

Filename: 150319E1 S:1 Acq:19-MAR-15 12:47:35 ConCal: ST150319E1-1
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	7.31e+07	1.61	y	1.10	37:29	1.000	0.995-1.005	105.262	PCB-133/142	7.15e+07	1.25	y	0.82	42:25	0.982	0.977-0.987	106.409
PCB-113	4.41e+07	1.61	y	1.41	37:44	1.007	1.002-1.012	49.6044	PCB-131	3.79e+07	1.26	y	0.91	42:34	0.985	0.981-0.991	50.9396
PCB-99	4.49e+07	1.64	y	1.34	37:49	1.009	1.004-1.014	53.2895	PCB-146/165	1.05e+08	1.25	y	1.25	42:48	0.991	0.986-0.996	102.771
PCB-119	4.44e+07	1.60	y	1.53	38:17	0.987	0.982-0.992	51.2365	PCB-132/161	9.36e+07	1.24	y	1.10	43:02	0.996	0.992-1.002	103.202
PCB-108/112	7.24e+07	1.61	y	1.28	38:27	0.991	0.986-0.996	99.9031	PCB-153	5.00e+07	1.23	y	1.25	43:12	1.000	0.995-1.005	48.7911
PCB-83	4.12e+07	1.62	y	1.52	38:36	0.995	0.990-1.000	47.9338	PCB-168	5.80e+07	1.25	y	1.45	43:25	1.005	1.001-1.011	48.7827
PCB-97	3.39e+07	1.56	y	1.18	38:47	1.000	0.995-1.005	50.6037	PCB-141	4.02e+07	1.25	y	1.09	43:56	1.000	0.995-1.005	48.1666
PCB-86	2.29e+07	1.57	y	0.84	38:56	1.004	0.999-1.009	47.9347	PCB-137	4.21e+07	1.23	y	1.06	44:19	1.009	1.004-1.014	51.5529
B-87/117/125	1.36e+08	1.61	y	1.55	39:04	1.007	1.002-1.012	155.100	PCB-130	3.33e+07	1.28	y	0.96	44:26	1.011	1.006-1.016	44.9484
PCB-111/115	9.20e+07	1.59	y	1.63	39:13	1.011	1.006-1.016	99.5078	PCB-138/163/164	1.45e+08	1.23	y	1.29	44:48	1.001	0.996-1.006	144.512
PCB-85/116	7.53e+07	1.64	y	1.30	39:21	1.015	1.010-1.020	102.103	PCB-158/160	1.06e+08	1.25	y	1.34	45:03	1.006	1.001-1.011	102.007
PCB-120	4.97e+07	1.59	y	1.68	39:36	1.021	1.016-1.026	52.3469	PCB-129	3.38e+07	1.22	y	0.85	45:17	1.012	1.007-1.017	51.0837
PCB-110	4.41e+07	1.62	y	1.56	39:44	1.025	1.020-1.030	50.0899	PCB-166	5.48e+07	1.23	y	1.19	45:45	0.993	0.988-0.998	52.3541
PCB-82	2.86e+07	1.59	y	0.76	40:22	0.976	0.971-0.981	50.6080	PCB-159	5.07e+07	1.27	y	1.11	46:04	1.000	0.996-1.006	51.6136
PCB-124	5.56e+07	1.78	y	1.47	41:03	0.993	0.988-0.998	50.7834	PCB-128/162	9.05e+07	1.24	y	1.05	46:21	1.006	1.002-1.012	97.9105
PCB-107/109	1.01e+08	1.51	y	1.32	41:10	0.996	0.991-1.001	102.565	PCB-167	5.89e+07	1.24	y	1.20	46:45	1.000	0.995-1.005	50.4839
PCB-123	4.37e+07	1.64	y	1.17	41:21	1.000	0.996-1.006	50.2746	PCB-156	5.56e+07	1.22	y	1.14	48:02	1.000	0.996-1.006	50.4430
- PCB-106/118	9.12e+07	1.60	y	1.17	41:33	1.001	0.996-1.006	99.5185	PCB-157	5.66e+07	1.24	y	1.16	48:19	1.001	0.995-1.005	49.0684
- PCB-114	6.93e+07	1.64	y	1.30	42:11	1.000	0.995-1.005	51.5419	PCB-169	5.43e+07	1.24	y	1.12	50:27	1.000	0.995-1.005	48.3503
PCB-122	6.55e+07	1.61	y	1.12	42:19	1.003	0.999-1.009	56.3544									
PCB-105	7.24e+07	1.57	y	1.30	43:03	1.000	0.995-1.005	52.0688	PCB-188	4.70e+07	1.07	y	1.58	42:50	1.000	0.996-1.006	51.0689
PCB-127	7.69e+07	1.68	y	1.33	43:23	1.000	0.996-1.006	54.4276	PCB-184	4.92e+07	1.08	y	1.63	43:17	1.011	1.006-1.016	51.7290
PCB-126	6.55e+07	1.64	y	1.18	45:17	1.000	0.995-1.005	55.5098	PCB-179	3.77e+07	1.08	y	1.30	44:04	1.029	1.024-1.034	49.6012
									PCB-176	4.27e+07	1.08	y	1.48	44:32	1.040	1.035-1.045	49.6386
PCB-155	3.03e+07	1.31	y	1.11	37:03	1.001	0.966-1.006	54.4355	PCB-186	4.28e+07	1.08	y	1.45	45:08	1.054	1.050-1.060	50.5790
PCB-150	2.74e+07	1.29	y	1.00	38:18	1.035	1.030-1.040	54.8059	PCB-178	3.08e+07	1.06	y	1.03	45:38	1.066	1.061-1.071	51.1683
PCB-152	2.98e+07	1.30	y	1.12	38:47	1.047	1.043-1.053	53.3997	PCB-175	2.98e+07	1.07	y	1.01	45:59	1.074	1.069-1.079	50.4714
PCB-145	3.22e+07	1.30	y	1.20	39:13	1.059	1.055-1.065	53.5444	PCB-182/187	7.27e+07	1.07	y	1.25	46:09	1.078	1.073-1.083	99.8125
PCB-136	3.29e+07	1.31	y	1.18	39:33	1.068	1.064-1.074	55.7567	PCB-183	3.60e+07	1.07	y	1.21	46:28	1.085	1.081-1.091	51.1315
PCB-148	2.13e+07	1.27	y	0.74	39:39	1.071	1.066-1.076	57.2457	PCB-185	4.24e+07	1.05	y	1.80	47:08	0.956	0.951-0.961	52.9339
PCB-154	2.46e+07	1.32	y	0.86	40:09	1.084	1.080-1.090	57.2789	PCB-174	3.26e+07	1.07	y	1.38	47:29	0.963	0.958-0.968	53.2241
PCB-151	2.12e+07	1.28	y	0.75	40:47	1.101	1.097-1.107	56.7430	PCB-181	3.22e+07	1.08	y	1.38	47:36	0.965	0.960-0.970	52.4688
PCB-135	2.13e+07	1.29	y	0.79	40:59	1.107	1.103-1.113	53.8195	PCB-177	2.77e+07	1.08	y	1.26	47:45	0.968	0.963-0.973	49.6221
PCB-144	2.37e+07	1.27	y	0.76	41:06	1.110	1.105-1.117	62.1146	PCB-171	3.56e+07	1.08	y	1.58	48:03	0.974	0.970-0.980	50.5052
PCB-147	2.38e+07	1.28	y	0.82	41:14	1.114	1.109-1.121	57.9784	PCB-173	2.54e+07	1.07	y	1.11	48:29	0.983	0.978-0.988	51.4223
PCB-139/149	4.38e+07	1.30	y	0.76	41:30	1.121	1.116-1.128	114.911	PCB-172	3.63e+07	1.08	y	1.63	48:56	0.992	0.987-0.997	49.9671
- PCB-140	2.11e+07	1.32	y	0.72	41:41	1.126	1.121-1.133	58.3439	PCB-192	4.06e+07	1.07	y	1.74	49:07	0.996	0.991-1.001	52.4359
- PCB-134/143	7.95e+07	1.25	y	0.92	42:06	0.975	0.970-0.980	105.690	PCB-180	3.02e+07	1.05	y	1.34	49:20	1.000	0.995-1.005	50.5287

Integrations

by
Analyst: *DMS*

Date: *3/20/15*

Client ID: PCB CS3 14K1102
Lab ID: ST150319E1-1

Filename: 150319E1 S:1 Acq:19-MAR-15 12:47:35
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150319E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	4.19e+07	1.08 y	1.72	49:32	1.005	0.999-1.009		54.9486
PCB-191	3.87e+07	1.07 y	1.69	49:47	1.010	1.004-1.014		51.3340
PCB-170	2.77e+07	1.07 y	1.60	50:50	1.000	0.995-1.005		50.0974
PCB-190	3.97e+07	1.08 y	2.21	51:00	1.004	0.998-1.008		51.9351
PCB-189	3.86e+07	1.06 y	1.55	52:20	1.000	0.995-1.005		52.0292
PCB-202	2.70e+07	0.91 y	1.08	48:15	1.000	0.995-1.005		51.6207
PCB-201	2.81e+07	0.92 y	1.15	48:44	1.010	1.005-1.015		50.6057
PCB-204	2.85e+07	0.92 y	1.14	48:53	1.014	1.008-1.018		51.7211
PCB-197	2.73e+07	0.91 y	1.07	49:12	1.020	1.015-1.025		52.4953
PCB-200	2.72e+07	0.92 y	1.06	50:05	1.038	1.032-1.044		52.9706
PCB-198	2.11e+07	0.90 y	0.76	51:26	1.066	1.059-1.069		57.7480
PCB-199	2.01e+07	0.93 y	0.80	51:32	1.069	1.061-1.071		52.0847
- PCB-196/203	4.11e+07	0.92 y	0.80	51:48	1.074	1.066-1.076		106.090
- PCB-195	3.57e+07	0.91 y	1.23	52:59	0.984	0.979-0.989		43.8846
PCB-194	3.83e+07	0.92 y	1.21	53:51	1.000	0.995-1.005		47.6409
PCB-205	5.29e+07	0.93 y	1.54	54:07	1.005	1.001-1.011		51.7120
PCB-208	3.92e+07	1.35 y	0.93	53:07	1.000	0.995-1.005		51.9422
PCB-207	4.63e+07	1.35 y	1.08	53:26	1.006	1.001-1.011		52.8099
PCB-206	3.00e+07	1.30 y	1.02	55:28	1.000	0.995-1.005		50.3270
PCB-209	3.43e+07	1.19 y	1.17	56:49	1.000	0.995-1.005		51.2505

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	3.30e+08	2.98 y	16:09	1.27	123.759
Total Di-PCB	2.42e+09	1.61 y	20:07	1.21	1125.73
Total Tri-PCB	6.13e+08	1.07 y	24:14	1.10	406.355
Total Tri-PCB	1.74e+09	1.08 y	27:56	1.21	859.180
Total Tetra-PCB	3.12e+09	0.79 y	27:59	1.09	2271.28
Total Penta-PCB	1.65e+09	1.61 y	32:40	1.18	2088.02
Total Penta-PCB	3.70e+08	1.64 y	42:11	1.25	285.945
Total Hexa-PCB	3.53e+08	1.31 y	37:03	0.90	790.377
Total Hexa-PCB	1.34e+09	1.25 y	42:06	1.11	1436.00
Total Hepta-PCB	8.88e+08	1.07 y	42:50	1.42	1242.17
Total Octa-PCB	2.21e+08	0.91 y	48:15	0.96	475.396
Total Octa-PCB	1.30e+08	0.91 y	52:59	1.33	146.896
Total Nona-PCB	1.16e+08	1.35 y	53:07	1.01	155.946
Total Deca-PCB	3.43e+07	1.19 y	56:49	1.17	51.2505

Total PCB Conc:11367.7510010

Integrations
by
Analyst: Dms
Date: 3/20/15

Client ID: PCB CS3 14K1102
Lab ID: ST150319E1-1

Filename: 150319E1 S:1 Acq:19-MAR-15 12:47:35
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

ConCal: ST150319E1-1
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	1.95e+08	3.21 y	0.87	16:08	0.622	0.629-0.635		107	107											
13C-PCB-3	2.19e+08	3.24 y	0.91	18:45	0.723	0.725-0.733		115	115		13C-PCB-79	1.51e+08	0.81 y	1.02	37:48	1.029	1.023-1.034	99.2	99.2	
13C-PCB-4	1.21e+08	1.59 y	0.59	20:05	0.774	0.775-0.783		99.6	99.6		13C-PCB-178	3.80e+07	0.47 y	0.61	45:36	0.985	0.979-0.990	85.3	85.3	
13C-PCB-9	1.81e+08	1.58 y	0.90	21:52	0.843	0.842-0.850		97.1	97.1											
13C-PCB-11	1.90e+08	1.56 y	0.94	25:14	0.973	0.968-0.978		97.4	97.4											
13C-PCB-19	1.03e+08	1.07 y	0.53	24:13	0.933	0.930-0.940		93.6	93.6											
13C-PCB-28	1.70e+08	1.07 y	0.93	29:05	1.004	0.999-1.009		98.3	98.3		13C-PCB-79	1.51e+08	0.81 y	1.10	37:48	0.969	0.964-0.974	102	102	
13C-PCB-32	1.55e+08	1.09 y	0.80	27:08	1.046	1.040-1.050		93.7	93.7		13C-PCB-178	3.80e+07	0.47 y	0.90	45:36	0.925	0.920-0.930	95.1	95.1	
13C-PCB-37	1.64e+08	1.09 y	0.84	32:57	1.137	1.131-1.143		105	105											
13C-PCB-47	1.14e+08	0.81 y	0.81	31:60	0.871	0.866-0.874		94.1	94.1											
13C-PCB-52	1.10e+08	0.80 y	0.77	31:30	0.857	0.853-0.861		95.0	95.0											
13C-PCB-54	1.30e+08	0.81 y	0.97	27:57	0.761	0.758-0.766		89.5	89.5											
13C-PCB-70	1.44e+08	0.82 y	1.00	35:30	0.966	0.961-0.971		96.6	96.6											
13C-PCB-77	1.40e+08	0.81 y	0.94	39:37	1.078	1.073-1.083		99.4	99.4											
13C-PCB-80	1.50e+08	0.82 y	1.03	35:56	0.978	0.972-0.982		97.2	97.2											
13C-PCB-81	1.35e+08	0.82 y	0.92	39:01	1.062	1.057-1.067		97.4	97.4											
13C-PCB-95	5.97e+07	1.60 y	0.74	35:48	0.913	0.908-0.918		101	101											
13C-PCB-97	5.66e+07	1.63 y	0.70	38:47	0.989	0.984-0.994		100	100											
13C-PCB-101	6.31e+07	1.66 y	0.78	37:29	0.956	0.951-0.961		101	101											
13C-PCB-104	7.63e+07	1.58 y	1.00	32:39	0.832	0.828-0.836		95.2	95.2											
13C-PCB-105	1.07e+08	1.60 y	1.37	43:02	0.929	0.924-0.934		108	108											
13C-PCB-114	1.04e+08	1.61 y	1.36	42:11	0.911	0.905-0.915		105	105											
13C-PCB-118	7.81e+07	1.60 y	0.96	41:31	1.059	1.054-1.064		102	102											
13C-PCB-123	7.44e+07	1.61 y	0.89	41:20	1.054	1.050-1.060		104	104											
13C-PCB-126	9.98e+07	1.59 y	1.31	45:16	0.977	0.972-0.982		105	105											
13C-PCB-127	1.06e+08	1.59 y	1.47	43:23	0.936	0.931-0.941		99.1	99.1											
13C-PCB-138	7.75e+07	1.27 y	1.10	44:46	0.966	0.961-0.971		97.0	97.0											
13C-PCB-141	7.69e+07	1.28 y	1.07	43:56	0.948	0.943-0.953		98.5	98.5											
13C-PCB-153	8.21e+07	1.29 y	1.15	43:12	0.932	0.927-0.937		98.6	98.6											
13C-PCB-155	5.01e+07	1.28 y	0.84	37:02	0.944	0.939-0.949		74.5	74.5											
13C-PCB-156	9.71e+07	1.29 y	1.30	48:01	1.037	1.032-1.042		103	103											
13C-PCB-157	9.91e+07	1.27 y	1.36	48:17	1.042	1.038-1.048		101	101											
13C-PCB-159	8.83e+07	1.29 y	1.25	46:03	0.994	0.989-0.999		97.5	97.5											
13C-PCB-167	9.73e+07	1.27 y	1.35	46:44	1.009	1.004-1.014		99.1	99.1											
13C-PCB-169	1.00e+08	1.29 y	1.29	50:27	1.089	1.083-1.093		107	107											
13C-PCB-170	3.46e+07	0.47 y	0.54	50:49	1.097	1.089-1.101		87.9	87.9											
13C-PCB-180	4.45e+07	0.47 y	0.68	49:19	1.065	1.060-1.070		89.6	89.6											
13C-PCB-188	5.82e+07	0.46 y	0.92	42:49	0.924	0.919-0.929		87.4	87.4											
13C-PCB-189	4.79e+07	0.47 y	0.72	52:19	1.129	1.120-1.132		92.1	92.1											
13C-PCB-194	6.64e+07	0.92 y	0.80	53:50	0.995	0.990-1.000		92.7	92.7											
13C-PCB-202	4.84e+07	0.96 y	0.84	48:14	1.041	1.036-1.046		79.5	79.5											
13C-PCB-206	5.83e+07	0.80 y	0.65	55:27	1.025	1.021-1.031		100.0	100.0											
13C-PCB-208	8.10e+07	0.80 y	1.08	53:06	0.981	0.976-0.986		83.5	83.5											
13C-PCB-209	5.72e+07	1.20 y	0.61	56:48	1.050	1.045-1.055		104	104											

Analyst: *DmS*

Date: *3/20/15*

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150319E1	1	ST150319E1-1	DMS	19-MAR-15	12:47:35	ST150319E1-1	NA
150319E1	2	SOLVENT BLANK	DMS	19-MAR-15	13:51:58	ST150319E1-1	NA
150319E1	3	1400915-05RE1@5X	DMS	19-MAR-15	14:56:27	ST150319E1-1	NA
150319E1	4	1400948-01RE1@20X	DMS	19-MAR-15	16:00:57	ST150319E1-1	NA
150319E1	5	1400948-02RE1@20X	DMS	19-MAR-15	17:05:20	ST150319E1-1	NA
150319E1	6	1400948-03RE1@20X	DMS	19-MAR-15	18:09:45	ST150319E1-1	NA
150319E1	7	1500211-01RE1@20X	DMS	19-MAR-15	19:14:08	ST150319E1-1	NA
150319E1	8	SOLVENT BLANK	DMS	19-MAR-15	20:18:33	ST150319E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: STIS0319E1-1

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> DMS 3/20/15	<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"/> Y
-Samples within 12-hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input type="checkbox"/> NA	<input type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input type="checkbox"/>
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input type="checkbox"/>

Comments:

Reviewed by: MS 3/20/15
Initials & Date

* Ending standard criteria applicable to 8290 only.

INITIAL CALIBRATION

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 η	Total Mono-PCB	0.00	-	- n	-	-	1.15
170	Tot η	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	Tetraη	13C-PCB-60	100.00	1.30e+08	0.80 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	8.89e+07	1.60 y	39:06	-	1.00
231	Hexaη	13C-PCB-128	100.00	7.17e+07	1.30 y	46:16	-	1.00
232	Octaη	13C-PCB-205	100.00	6.82e+07	0.91 y	53:55	-	1.00

233	CRS	13C-PCB-79	100.00	1.32e+08	0.79 y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.49e+07	0.45 y	45:32	-	0.63
235	PS	13C-PCB-79	100.00	1.32e+08	0.79 y	37:41	-	1.12
236	PS	13C-PCB-178	100.00	4.49e+07	0.45 y	45:32	-	0.90

Filename: 140623E2 S: 3 Acquired: 23-JUN-14 13:49:52
 Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
 Sample text: ST140623E2-3 PCB CS2 14F1604

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	2.50	4.75e+06	3.02 y	16:24	-	1.18
2	Mono	PCB-2	2.50	4.92e+06	2.98 y	18:41	-	1.16
3	Mono	PCB-3	2.50	5.82e+06	3.06 y	18:54	-	1.37
4	Di	PCB-4/10	10.00	1.63e+07	1.69 y	20:13	-	1.55
5	Di	PCB-7/9	10.00	1.91e+07	1.66 y	21:57	-	1.19
6	Di	PCB-6	5.00	1.05e+07	1.63 y	22:35	-	1.31
7	Di	PCB-5/8	10.00	1.85e+07	1.65 y	22:59	-	1.15
8	Di	PCB-14	5.00	9.28e+06	1.67 y	24:03	-	1.11
9	Di	PCB-11	5.00	8.97e+06	1.69 y	25:13	-	1.07
10	Di	PCB-12/13	10.00	1.98e+07	1.68 y	25:37	-	1.18
11	Di	PCB-15	5.00	1.05e+07	1.70 y	25:55	-	1.26
12	Tri	PCB-19	2.50	2.48e+06	1.07 y	24:14	-	1.01
13	Tri	PCB-30	2.50	4.07e+06	1.08 y	25:06	-	1.66
14	Tri	PCB-18	2.50	2.77e+06	1.08 y	25:50	-	0.79
15	Tri	PCB-17	2.50	3.32e+06	1.02 y	26:01	-	0.94
16	Tri	PCB-24/27	5.00	8.36e+06	1.04 y	26:35	-	1.19
17	Tri	PCB-16/32	5.00	6.64e+06	1.06 y	27:05	-	0.94
18	Tri	PCB-34	2.50	4.10e+06	1.00 y	27:52	-	1.13
19	Tri	PCB-23	2.50	4.41e+06	1.05 y	27:58	-	1.22
20	Tri	PCB-29	2.50	3.95e+06	1.06 y	28:13	-	1.09
21	Tri	PCB-26	2.50	4.58e+06	1.04 y	28:24	-	1.27
22	Tri	PCB-25	2.50	4.69e+06	1.09 y	28:35	-	1.30
23	Tri	PCB-31	2.50	4.94e+06	1.06 y	28:55	-	1.36
24	Tri	PCB-28	2.50	6.44e+06	1.05 y	29:02	-	1.78
25	Tri	PCB-20/21/33	7.50	1.21e+07	1.07 y	29:38	-	1.11
26	Tri	PCB-22	2.50	4.25e+06	1.06 y	30:04	-	1.17
27	Tri	PCB-36	2.50	3.41e+06	1.03 y	30:41	-	1.11
28	Tri	PCB-39	2.50	3.35e+06	1.04 y	31:09	-	1.09
29	Tri	PCB-38	2.50	3.81e+06	1.11 y	31:56	-	1.24
30	Tri	PCB-35	2.50	4.04e+06	1.02 y	32:26	-	1.31
31	Tri	PCB-37	2.50	3.84e+06	0.98 y	32:53	-	1.25
32	Tetra	PCB-54	2.50	3.28e+06	0.79 y	27:56	-	1.10
33	Tetra	PCB-50	2.50	2.75e+06	0.77 y	29:04	-	0.92
34	Tetra	PCB-53	2.50	2.52e+06	0.76 y	29:43	-	1.06
35	Tetra	PCB-51	2.50	2.31e+06	0.79 y	30:03	-	0.97
36	Tetra	PCB-45	2.50	1.97e+06	0.72 y	30:29	-	0.83
37	Tetra	PCB-46	2.50	1.95e+06	0.75 y	30:58	-	0.82
38	Tetra	PCB-52/69	5.00	6.07e+06	0.78 y	31:26	-	1.27
39	Tetra	PCB-73	2.50	3.40e+06	0.77 y	31:33	-	1.43
40	Tetra	PCB-43/49	5.00	4.57e+06	0.77 y	31:43	-	0.96
41	Tetra	PCB-47	2.50	2.67e+06	0.72 y	31:55	-	1.07

42	Tetra	PCB-48/75	5.00	6.04e+06	0.80 y	32:01	-	1.21
43	Tetra	PCB-65	2.50	3.21e+06	0.86 y	32:18	-	1.29
44	Tetra	PCB-62	2.50	3.13e+06	0.70 y	32:25	-	1.25
45	Tetra	PCB-44	2.50	2.09e+06	0.75 y	32:42	-	0.84
46	Tetra	PCB-42/59	5.00	5.38e+06	0.76 y	32:56	-	1.08
47	Tetra	PCB-41/64/71/72	10.00	1.16e+07	0.76 y	33:31	-	1.16
48	Tetra	PCB-68	2.50	3.30e+06	0.76 y	33:46	-	1.32
49	Tetra	PCB-40	2.50	1.74e+06	0.77 y	34:00	-	0.70
50	Tetra	PCB-57	2.50	3.04e+06	0.75 y	34:21	-	1.00
51	Tetra	PCB-67	2.50	3.37e+06	0.81 y	34:39	-	1.11
52	Tetra	PCB-58	2.50	2.87e+06	0.75 y	34:46	-	0.94

53	Tetra	PCB-63	2.50	2.77e+06	0.73 y	34:55	-	0.91
54	Tetra	PCB-74	2.50	3.80e+06	0.75 y	35:12	-	1.25
55	Tetra	PCB-61/70	5.00	5.98e+06	0.74 y	35:23	-	0.98
56	Tetra	PCB-76/66	5.00	6.31e+06	0.76 y	35:36	-	1.04
57	Tetra	PCB-80	2.50	3.85e+06	0.79 y	35:50	-	1.22
58	Tetra	PCB-55	2.50	3.37e+06	0.77 y	36:09	-	1.07
59	Tetra	PCB-56/60	5.00	6.58e+06	0.79 y	36:39	-	1.05
60	Tetra	PCB-79	2.50	3.55e+06	0.78 y	37:42	-	1.13
61	Tetra	PCB-78	2.50	3.58e+06	0.75 y	38:24	-	1.27
62	Tetra	PCB-81	2.50	3.64e+06	0.71 y	38:56	-	1.29
63	Tetra	PCB-77	2.50	3.13e+06	0.84 y	39:32	-	1.11
64	Penta	PCB-104	2.50	2.54e+06	1.55 y	32:34	-	1.20
65	Penta	PCB-96	2.50	2.37e+06	1.57 y	33:49	-	1.11
66	Penta	PCB-103	2.50	1.95e+06	1.62 y	34:21	-	0.92
67	Penta	PCB-100	2.50	1.89e+06	1.58 y	34:42	-	0.89
68	Penta	PCB-94	2.50	1.59e+06	1.56 y	35:10	-	1.03
69	Penta	PCB-95/98/102	7.50	5.65e+06	1.58 y	35:40	-	1.22
70	Penta	PCB-93	2.50	1.33e+06	1.59 y	35:48	-	0.86
71	Penta	PCB-88/91	5.00	3.54e+06	1.56 y	36:05	-	1.15
72	Penta	PCB-121	2.50	2.47e+06	1.61 y	36:11	-	1.61
73	Penta	PCB-84/92	5.00	3.35e+06	1.58 y	37:00	-	1.04
74	Penta	PCB-89	2.50	1.82e+06	1.44 y	37:13	-	1.13
75	Penta	PCB-90/101	5.00	3.61e+06	1.57 y	37:23	-	1.12
76	Penta	PCB-113	2.50	2.36e+06	1.55 y	37:38	-	1.46
77	Penta	PCB-99	2.50	2.05e+06	1.54 y	37:43	-	1.27
78	Penta	PCB-119	2.50	2.29e+06	1.50 y	38:11	-	1.54
79	Penta	PCB-108/112	5.00	3.72e+06	1.60 y	38:20	-	1.25
80	Penta	PCB-83	2.50	2.26e+06	1.63 y	38:30	-	1.52
81	Penta	PCB-97	2.50	1.70e+06	1.65 y	38:41	-	1.14
82	Penta	PCB-86	2.50	1.20e+06	1.61 y	38:50	-	0.81
83	Penta	PCB-87/117/125	7.50	6.65e+06	1.64 y	38:57	-	1.49
84	Penta	PCB-111/115	5.00	4.80e+06	1.62 y	39:08	-	1.61
85	Penta	PCB-85/116	5.00	3.77e+06	1.61 y	39:15	-	1.27
86	Penta	PCB-120	2.50	2.37e+06	1.56 y	39:29	-	1.60
87	Penta	PCB-110	2.50	2.32e+06	1.42 y	39:38	-	1.56
88	Penta	PCB-82	2.50	1.39e+06	1.53 y	40:16	-	0.74
89	Penta	PCB-124	2.50	2.74e+06	1.58 y	40:57	-	1.45
90	Penta	PCB-107/109	5.00	4.89e+06	1.55 y	41:05	-	1.29
91	Penta	PCB-123	2.50	2.23e+06	1.54 y	41:15	-	1.18
92	Penta	PCB-106/118	5.00	4.74e+06	1.58 y	41:27	-	1.19
93	Penta	PCB-114	2.50	3.01e+06	1.74 y	42:06	-	1.31
94	Penta	PCB-122	2.50	2.58e+06	1.66 y	42:14	-	1.12
95	Penta	PCB-105	2.50	3.03e+06	1.56 y	42:58	-	1.31
96	Penta	PCB-127	2.50	3.44e+06	1.56 y	43:18	-	1.37
97	Penta	PCB-126	2.50	2.65e+06	1.69 y	45:12	-	1.19
98	Hexa	PCB-155	2.50	1.95e+06	1.25 y	36:56	-	1.10
99	Hexa	PCB-150	2.50	1.74e+06	1.30 y	38:12	-	0.98
100	Hexa	PCB-152	2.50	1.99e+06	1.35 y	38:40	-	1.12
101	Hexa	PCB-145	2.50	2.09e+06	1.25 y	39:08	-	1.18
102	Hexa	PCB-136	2.50	2.08e+06	1.27 y	39:27	-	1.17

103	Hexa	PCB-148	2.50	1.31e+06	1.34 y	39:33	-	0.74
104	Hexa	PCB-154	2.50	1.55e+06	1.20 y	40:02	-	0.88
105	Hexa	PCB-151	2.50	1.29e+06	1.35 y	40:41	-	0.73
106	Hexa	PCB-135	2.50	1.24e+06	1.27 y	40:53	-	0.70
107	Hexa	PCB-144	2.50	1.35e+06	1.29 y	41:00	-	0.76
108	Hexa	PCB-147	2.50	1.38e+06	1.27 y	41:08	-	0.78
109	Hexa	PCB-139/149	5.00	2.58e+06	1.32 y	41:24	-	0.73
110	Hexa	PCB-140	2.50	1.29e+06	1.21 y	41:35	-	0.73
111	Hexa	PCB-134/143	5.00	3.48e+06	1.21 y	42:01	-	0.89
112	Hexa	PCB-133/142	5.00	3.10e+06	1.24 y	42:19	-	0.79
113	Hexa	PCB-131	2.50	1.76e+06	1.30 y	42:29	-	0.90

114	Hexa	PCB-146/165	5.00	4.77e+06	1.25 y	42:42	-	1.22
115	Hexa	PCB-132/161	5.00	4.19e+06	1.28 y	42:57	-	1.07
116	Hexa	PCB-153	2.50	2.42e+06	1.18 y	43:07	-	1.24
117	Hexa	PCB-168	2.50	2.79e+06	1.31 y	43:20	-	1.43
118	Hexa	PCB-141	2.50	1.92e+06	1.24 y	43:51	-	1.04
119	Hexa	PCB-137	2.50	1.90e+06	1.26 y	44:14	-	1.03
120	Hexa	PCB-130	2.50	1.82e+06	1.20 y	44:20	-	0.99
121	Hexa	PCB-138/163/164	7.50	7.26e+06	1.17 y	44:43	-	1.30
122	Hexa	PCB-158/160	5.00	5.17e+06	1.21 y	44:58	-	1.39
123	Hexa	PCB-129	2.50	1.61e+06	1.27 y	45:12	-	0.87
124	Hexa	PCB-166	2.50	2.51e+06	1.17 y	45:40	-	1.18
125	Hexa	PCB-159	2.50	2.37e+06	1.27 y	46:00	-	1.11
126	Hexa	PCB-128/162	5.00	4.28e+06	1.21 y	46:17	-	1.00
127	Hexa	PCB-167	2.50	2.79e+06	1.21 y	46:40	-	1.21
128	Hexa	PCB-156	2.50	2.59e+06	1.29 y	47:59	-	1.18
129	Hexa	PCB-157	2.50	2.63e+06	1.28 y	48:15	-	1.14
130	Hexa	PCB-169	2.50	2.41e+06	1.20 y	50:20	-	1.09
131	Hepta	PCB-188	2.50	2.41e+06	0.99 y	42:44	-	1.55
132	Hepta	PCB-184	2.50	2.63e+06	1.06 y	43:12	-	1.69
133	Hepta	PCB-179	2.50	2.01e+06	1.01 y	43:59	-	1.29
134	Hepta	PCB-176	2.50	2.25e+06	1.03 y	44:27	-	1.45
135	Hepta	PCB-186	2.50	2.12e+06	0.99 y	45:04	-	1.36
136	Hepta	PCB-178	2.50	1.70e+06	1.03 y	45:33	-	1.10
137	Hepta	PCB-175	2.50	1.56e+06	1.13 y	45:54	-	1.00
138	Hepta	PCB-182/187	5.00	3.83e+06	1.06 y	46:04	-	1.24
139	Hepta	PCB-183	2.50	1.88e+06	0.99 y	46:23	-	1.21
140	Hepta	PCB-185	2.50	2.14e+06	1.08 y	47:03	-	1.87
141	Hepta	PCB-174	2.50	1.52e+06	1.09 y	47:25	-	1.33
142	Hepta	PCB-181	2.50	1.64e+06	1.06 y	47:31	-	1.44
143	Hepta	PCB-177	2.50	1.46e+06	1.12 y	47:41	-	1.28
144	Hepta	PCB-171	2.50	1.80e+06	1.10 y	47:59	-	1.57
145	Hepta	PCB-173	2.50	1.30e+06	1.02 y	48:25	-	1.14
146	Hepta	PCB-172	2.50	1.89e+06	1.10 y	48:52	-	1.66
147	Hepta	PCB-192	2.50	2.02e+06	1.05 y	49:03	-	1.77
148	Hepta	PCB-180	2.50	1.56e+06	1.03 y	49:15	-	1.37
149	Hepta	PCB-193	2.50	1.90e+06	1.14 y	49:27	-	1.67
150	Hepta	PCB-191	2.50	1.95e+06	1.08 y	49:42	-	1.71
151	Hepta	PCB-170	2.50	1.48e+06	1.03 y	50:41	-	1.63
152	Hepta	PCB-190	2.50	2.08e+06	1.01 y	50:51	-	2.28
153	Hepta	PCB-189	2.50	1.87e+06	1.06 y	52:07	-	1.54
154	Octa	PCB-202	2.50	1.49e+06	0.93 y	48:11	-	1.05
155	Octa	PCB-201	2.50	1.64e+06	0.88 y	48:41	-	1.16
156	Octa	PCB-204	2.50	1.62e+06	0.92 y	48:51	-	1.14
157	Octa	PCB-197	2.50	1.49e+06	0.97 y	49:09	-	1.05
158	Octa	PCB-200	2.50	1.49e+06	0.95 y	49:59	-	1.05
159	Octa	PCB-198	2.50	1.08e+06	0.86 y	51:15	-	0.76
160	Octa	PCB-199	2.50	1.06e+06	0.98 y	51:22	-	0.75
161	Octa	PCB-196/203	5.00	2.18e+06	0.94 y	51:37	-	0.77
162	Octa	PCB-195	2.50	1.58e+06	0.94 y	52:46	-	1.24
163	Octa	PCB-194	2.50	1.51e+06	0.87 y	53:39	-	1.18

164	Octa	PCB-205	2.50	1.95e+06	0.91 y	53:56	-	1.53
165	Nona	PCB-208	2.50	1.57e+06	1.28 y	52:54	-	0.91
166	Nona	PCB-207	2.50	1.82e+06	1.42 y	53:13	-	1.05
167	Nona	PCB-206	2.50	1.03e+06	1.32 y	55:21	-	0.99
168	Deca	PCB-209	2.50	1.17e+06	1.22 y	56:39	-	1.17
169	Tot η	Total Mono-PCB	0.00	-	- n	-	-	1.24
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.20
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.09

172	Tot	η	Total Tri-PCB	0.00	-	- n	-	-	1.24
173	Tot	η	Total Tetra-PCB	0.00	-	- n	-	-	1.08
174	Tot	η	Total Penta-PCB	0.00	-	- n	-	-	1.17
175	Tot	η	Total Penta-PCB	0.00	-	- n	-	-	1.26
176	Tot	η	Total Hexa-PCB	0.00	-	- n	-	-	0.88
177	Tot	η	Total Hexa-PCB	0.00	-	- n	-	-	1.10
178	Tot	η	Total Hepta-PCB	0.00	-	- n	-	-	1.42
179	Tot	η	Total Octa-PCB	0.00	-	- n	-	-	0.95
180	Tot	η	Total Octa-PCB	0.00	-	- n	-	-	1.32
181	Tot	η	Total Nona-PCB	0.00	-	- n	-	-	0.98
182	Tot	η	Total Deca-PCB	2.50	1.17e+06	1.22 y	56:39	-	1.17
183	Mono	η	13C-PCB-1	100.00	1.61e+08	3.34 y	16:23	-	0.91
184	Mono	η	13C-PCB-3	100.00	1.70e+08	3.41 y	18:53	-	0.96
185	Di-IS		13C-PCB-4	100.00	1.05e+08	1.60 y	20:11	-	0.60
186	Di-IS		13C-PCB-9	100.00	1.61e+08	1.58 y	21:54	-	0.91
187	Di-IS		13C-PCB-11	100.00	1.68e+08	1.55 y	25:12	-	0.95
188	Tri-η		13C-PCB-19	100.00	9.81e+07	1.09 y	24:13	-	0.56
189	Tri-η		13C-PCB-32	100.00	1.41e+08	1.10 y	27:05	-	0.80
190	Tri-η		13C-PCB-28	100.00	1.45e+08	1.05 y	29:00	-	0.93
191	Tri-η		13C-PCB-37	100.00	1.23e+08	1.05 y	32:51	-	0.79
192	Tetrη		13C-PCB-54	100.00	1.19e+08	0.80 y	27:55	-	0.97
193	Tetrη		13C-PCB-52	100.00	9.54e+07	0.79 y	31:24	-	0.77
194	Tetrη		13C-PCB-47	100.00	9.99e+07	0.78 y	31:53	-	0.81
195	Tetrη		13C-PCB-70	100.00	1.22e+08	0.79 y	35:24	-	0.99
196	Tetrη		13C-PCB-80	100.00	1.26e+08	0.79 y	35:48	-	1.02
197	Tetrη		13C-PCB-81	100.00	1.13e+08	0.80 y	38:55	-	0.92
198	Tetrη		13C-PCB-77	100.00	1.13e+08	0.81 y	39:31	-	0.92
199	Pentη		13C-PCB-104	100.00	8.51e+07	1.58 y	32:33	-	1.01
200	Pentη		13C-PCB-95	100.00	6.16e+07	1.60 y	35:42	-	0.73
201	Pentη		13C-PCB-101	100.00	6.46e+07	1.61 y	37:22	-	0.77
202	Pentη		13C-PCB-97	100.00	5.95e+07	1.56 y	38:40	-	0.71
203	Pentη		13C-PCB-123	100.00	7.57e+07	1.60 y	41:14	-	0.90
204	Pentη		13C-PCB-118	100.00	7.96e+07	1.58 y	41:25	-	0.95
205	Pentη		13C-PCB-114	100.00	9.23e+07	1.63 y	42:05	-	1.35
206	Pentη		13C-PCB-105	100.00	9.25e+07	1.61 y	42:57	-	1.36
207	Pentη		13C-PCB-127	100.00	1.01e+08	1.61 y	43:17	-	1.48
208	Pentη		13C-PCB-126	100.00	8.91e+07	1.60 y	45:11	-	1.31
209	Hexaη		13C-PCB-155	100.00	7.08e+07	1.28 y	36:55	-	0.84
210	Hexaη		13C-PCB-153	100.00	7.84e+07	1.29 y	43:06	-	1.15
211	Hexaη		13C-PCB-141	100.00	7.40e+07	1.27 y	43:50	-	1.09
212	Hexa		13C-PCB-138	100.00	7.43e+07	1.26 y	44:41	-	1.09
213	Hexaη		13C-PCB-159	100.00	8.52e+07	1.28 y	45:58	-	1.25
214	Hexaη		13C-PCB-167	100.00	9.23e+07	1.29 y	46:40	-	1.35
215	Hexaη		13C-PCB-156	100.00	8.80e+07	1.30 y	47:58	-	1.29
216	Hexaη		13C-PCB-157	100.00	9.23e+07	1.29 y	48:14	-	1.35
217	Hexaη		13C-PCB-169	100.00	8.83e+07	1.28 y	50:19	-	1.29
218	Heptη		13C-PCB-188	100.00	6.20e+07	0.47 y	42:44	-	0.91
219	Heptη		13C-PCB-180	100.00	4.56e+07	0.47 y	49:15	-	0.67
220	Heptη		13C-PCB-170	100.00	3.64e+07	0.46 y	50:40	-	0.53
221	Heptη		13C-PCB-189	100.00	4.86e+07	0.48 y	52:07	-	0.71
222	Octaη		13C-PCB-202	100.00	5.66e+07	0.90 y	48:10	-	0.83

223	Octaη	13C-PCB-194	100.00	5.12e+07	0.92 y	53:38	-	0.80
224	Nonaη	13C-PCB-208	100.00	6.94e+07	0.78 y	52:53	-	1.09
225	Nonaη	13C-PCB-206	100.00	4.16e+07	0.79 y	55:20	-	0.65
226	Decaη	13C-PCB-209	100.00	3.99e+07	1.19 y	56:38	-	0.63
227	DI-RS	13C-PCB-15	100.00	1.76e+08	1.60 y	25:54	-	1.00
228	Tri-η	13C-PCB-31	100.00	1.55e+08	1.05 y	28:54	-	1.00
229	Tetrη	13C-PCB-60	100.00	1.23e+08	0.79 y	36:38	-	1.00
230	Penta	13C-PCB-111	100.00	8.39e+07	1.60 y	39:06	-	1.00
231	Hexaη	13C-PCB-128	100.00	6.82e+07	1.27 y	46:16	-	1.00
232	Octaη	13C-PCB-205	100.00	6.36e+07	0.91 y	53:55	-	1.00

233	CRS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.19e+07	0.47 y	45:32	-	0.51
235	PS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:41	-	1.11
236	PS	13C-PCB-178	100.00	4.19e+07	0.47 y	45:32	-	0.92

Filename: 140623E2 S: 4 Acquired: 23-JUN-14 14:53:49
 Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
 Sample text: ST140623E2-4 PCB CS3 14F1302

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	9.40e+07	3.00 y	16:25	-	1.23
2	Mono	PCB-2	50.00	9.45e+07	3.01 y	18:41	-	1.23
3	Mono	PCB-3	50.00	1.13e+08	3.01 y	18:55	-	1.46
4	Di	PCB-4/10	200.00	3.27e+08	1.65 y	20:14	-	1.57
5	Di	PCB-7/9	200.00	3.82e+08	1.65 y	21:57	-	1.21
6	Di	PCB-6	100.00	2.07e+08	1.66 y	22:35	-	1.31
7	Di	PCB-5/8	200.00	3.65e+08	1.64 y	23:00	-	1.15
8	Di	PCB-14	100.00	1.87e+08	1.66 y	24:04	-	1.14
9	Di	PCB-11	100.00	1.81e+08	1.65 y	25:14	-	1.10
10	Di	PCB-12/13	200.00	3.92e+08	1.65 y	25:38	-	1.20
11	Di	PCB-15	100.00	2.11e+08	1.66 y	25:56	-	1.28
12	Tri	PCB-19	50.00	4.92e+07	1.05 y	24:15	-	1.04
13	Tri	PCB-30	50.00	7.99e+07	1.06 y	25:07	-	1.69
14	Tri	PCB-18	50.00	5.58e+07	1.05 y	25:51	-	0.80
15	Tri	PCB-17	50.00	6.48e+07	1.05 y	26:02	-	0.93
16	Tri	PCB-24/27	100.00	1.68e+08	1.05 y	26:36	-	1.20
17	Tri	PCB-16/32	100.00	1.31e+08	1.06 y	27:06	-	0.94
18	Tri	PCB-34	50.00	7.59e+07	1.03 y	27:52	-	1.09
19	Tri	PCB-23	50.00	8.55e+07	1.06 y	27:58	-	1.23
20	Tri	PCB-29	50.00	7.42e+07	1.04 y	28:13	-	1.06
21	Tri	PCB-26	50.00	8.24e+07	1.04 y	28:25	-	1.18
22	Tri	PCB-25	50.00	8.85e+07	1.06 y	28:34	-	1.27
23	Tri	PCB-31	50.00	8.65e+07	1.02 y	28:56	-	1.24
24	Tri	PCB-28	50.00	1.19e+08	1.04 y	29:02	-	1.70
25	Tri	PCB-20/21/33	150.00	2.26e+08	1.03 y	29:39	-	1.08
26	Tri	PCB-22	50.00	8.60e+07	1.04 y	30:05	-	1.23
27	Tri	PCB-36	50.00	7.12e+07	1.03 y	30:40	-	1.18
28	Tri	PCB-39	50.00	7.20e+07	1.02 y	31:09	-	1.20
29	Tri	PCB-38	50.00	7.37e+07	1.03 y	31:55	-	1.23
30	Tri	PCB-35	50.00	7.10e+07	1.03 y	32:26	-	1.18
31	Tri	PCB-37	50.00	7.16e+07	1.02 y	32:53	-	1.19
32	Tetra	PCB-54	50.00	6.73e+07	0.78 y	27:57	-	1.10
33	Tetra	PCB-50	50.00	5.38e+07	0.77 y	29:05	-	0.88
34	Tetra	PCB-53	50.00	5.23e+07	0.75 y	29:44	-	1.08
35	Tetra	PCB-51	50.00	4.77e+07	0.77 y	30:04	-	0.98
36	Tetra	PCB-45	50.00	4.32e+07	0.77 y	30:30	-	0.89
37	Tetra	PCB-46	50.00	4.05e+07	0.76 y	30:59	-	0.83
38	Tetra	PCB-52/69	100.00	1.24e+08	0.76 y	31:27	-	1.28
39	Tetra	PCB-73	50.00	6.71e+07	0.78 y	31:34	-	1.38
40	Tetra	PCB-43/49	100.00	9.43e+07	0.76 y	31:44	-	0.97
41	Tetra	PCB-47	50.00	5.35e+07	0.76 y	31:55	-	1.04

42	Tetra	PCB-48/75	100.00	1.20e+08	0.77 y	32:02	-	1.17
43	Tetra	PCB-65	50.00	6.30e+07	0.76 y	32:19	-	1.23
44	Tetra	PCB-62	50.00	5.58e+07	0.76 y	32:26	-	1.09
45	Tetra	PCB-44	50.00	4.12e+07	0.77 y	32:43	-	0.80
46	Tetra	PCB-42/59	100.00	1.11e+08	0.76 y	32:57	-	1.08
47	Tetra	PCB-41/64/71/72	200.00	2.33e+08	0.77 y	33:32	-	1.13
48	Tetra	PCB-68	50.00	6.63e+07	0.76 y	33:47	-	1.29
49	Tetra	PCB-40	50.00	3.48e+07	0.77 y	34:00	-	0.68
50	Tetra	PCB-57	50.00	6.06e+07	0.76 y	34:22	-	0.99
51	Tetra	PCB-67	50.00	6.65e+07	0.76 y	34:40	-	1.09
52	Tetra	PCB-58	50.00	5.67e+07	0.79 y	34:47	-	0.93

53	Tetra	PCB-63	50.00	5.70e+07	0.76 y	34:56	-	0.93
54	Tetra	PCB-74	50.00	7.34e+07	0.77 y	35:13	-	1.20
55	Tetra	PCB-61/70	100.00	1.16e+08	0.77 y	35:24	-	0.95
56	Tetra	PCB-76/66	100.00	1.26e+08	0.77 y	35:37	-	1.03
57	Tetra	PCB-80	50.00	7.72e+07	0.77 y	35:50	-	1.22
58	Tetra	PCB-55	50.00	6.84e+07	0.77 y	36:10	-	1.08
59	Tetra	PCB-56/60	100.00	1.27e+08	0.77 y	36:40	-	1.00
60	Tetra	PCB-79	50.00	6.79e+07	0.78 y	37:43	-	1.07
61	Tetra	PCB-78	50.00	6.97e+07	0.77 y	38:25	-	1.25
62	Tetra	PCB-81	50.00	7.20e+07	0.78 y	38:57	-	1.29
63	Tetra	PCB-77	50.00	6.19e+07	0.79 y	39:33	-	1.08
64	Penta	PCB-104	50.00	5.11e+07	1.57 y	32:35	-	1.20
65	Penta	PCB-96	50.00	4.80e+07	1.56 y	33:50	-	1.13
66	Penta	PCB-103	50.00	3.98e+07	1.56 y	34:22	-	0.93
67	Penta	PCB-100	50.00	3.93e+07	1.58 y	34:42	-	0.92
68	Penta	PCB-94	50.00	3.18e+07	1.55 y	35:11	-	1.02
69	Penta	PCB-95/98/102	150.00	1.14e+08	1.55 y	35:42	-	1.22
70	Penta	PCB-93	50.00	2.65e+07	1.58 y	35:48	-	0.85
71	Penta	PCB-88/91	100.00	7.03e+07	1.58 y	36:05	-	1.12
72	Penta	PCB-121	50.00	5.08e+07	1.60 y	36:12	-	1.62
73	Penta	PCB-84/92	100.00	6.82e+07	1.56 y	37:01	-	1.04
74	Penta	PCB-89	50.00	3.73e+07	1.58 y	37:14	-	1.14
75	Penta	PCB-90/101	100.00	7.26e+07	1.56 y	37:24	-	1.10
76	Penta	PCB-113	50.00	4.88e+07	1.57 y	37:39	-	1.49
77	Penta	PCB-99	50.00	4.19e+07	1.60 y	37:44	-	1.27
78	Penta	PCB-119	50.00	4.49e+07	1.56 y	38:12	-	1.52
79	Penta	PCB-108/112	100.00	7.56e+07	1.58 y	38:21	-	1.28
80	Penta	PCB-83	50.00	4.40e+07	1.57 y	38:31	-	1.49
81	Penta	PCB-97	50.00	3.44e+07	1.55 y	38:42	-	1.17
82	Penta	PCB-86	50.00	2.35e+07	1.55 y	38:51	-	0.80
83	Penta	PCB-87/117/125	150.00	1.40e+08	1.62 y	38:58	-	1.59
84	Penta	PCB-111/115	100.00	9.49e+07	1.51 y	39:08	-	1.61
85	Penta	PCB-85/116	100.00	7.71e+07	1.58 y	39:16	-	1.31
86	Penta	PCB-120	50.00	4.81e+07	1.59 y	39:30	-	1.63
87	Penta	PCB-110	50.00	4.58e+07	1.57 y	39:39	-	1.56
88	Penta	PCB-82	50.00	2.78e+07	1.55 y	40:17	-	0.76
89	Penta	PCB-124	50.00	5.28e+07	1.58 y	40:57	-	1.43
90	Penta	PCB-107/109	100.00	9.93e+07	1.59 y	41:05	-	1.35
91	Penta	PCB-123	50.00	4.35e+07	1.59 y	41:17	-	1.18
92	Penta	PCB-106/118	100.00	9.15e+07	1.59 y	41:28	-	1.17
93	Penta	PCB-114	50.00	6.12e+07	1.65 y	42:07	-	1.31
94	Penta	PCB-122	50.00	5.19e+07	1.66 y	42:15	-	1.11
95	Penta	PCB-105	50.00	5.88e+07	1.64 y	42:59	-	1.28
96	Penta	PCB-127	50.00	6.36e+07	1.67 y	43:19	-	1.27
97	Penta	PCB-126	50.00	5.32e+07	1.63 y	45:13	-	1.17
98	Hexa	PCB-155	50.00	3.92e+07	1.27 y	36:57	-	1.11
99	Hexa	PCB-150	50.00	3.54e+07	1.29 y	38:13	-	1.00
100	Hexa	PCB-152	50.00	3.90e+07	1.30 y	38:42	-	1.10
101	Hexa	PCB-145	50.00	4.21e+07	1.28 y	39:08	-	1.19
102	Hexa	PCB-136	50.00	4.09e+07	1.29 y	39:28	-	1.15

103	Hexa	PCB-148	50.00	2.62e+07	1.30 y	39:33	-	0.74
104	Hexa	PCB-154	50.00	2.94e+07	1.28 y	40:03	-	0.83
105	Hexa	PCB-151	50.00	2.53e+07	1.29 y	40:42	-	0.71
106	Hexa	PCB-135	50.00	2.73e+07	1.26 y	40:55	-	0.77
107	Hexa	PCB-144	50.00	2.52e+07	1.30 y	41:02	-	0.71
108	Hexa	PCB-147	50.00	2.80e+07	1.30 y	41:09	-	0.79
109	Hexa	PCB-139/149	100.00	5.22e+07	1.28 y	41:25	-	0.74
110	Hexa	PCB-140	50.00	2.47e+07	1.27 y	41:36	-	0.70
111	Hexa	PCB-134/143	100.00	7.05e+07	1.25 y	42:02	-	0.89
112	Hexa	PCB-133/142	100.00	6.32e+07	1.24 y	42:20	-	0.80
113	Hexa	PCB-131	50.00	3.53e+07	1.23 y	42:30	-	0.89

114	Hexa	PCB-146/165	100.00	9.72e+07	1.25 y	42:43	-	1.23
115	Hexa	PCB-132/161	100.00	8.58e+07	1.31 y	42:58	-	1.08
116	Hexa	PCB-153	50.00	4.86e+07	1.16 y	43:08	-	1.23
117	Hexa	PCB-168	50.00	5.75e+07	1.25 y	43:21	-	1.45
118	Hexa	PCB-141	50.00	3.94e+07	1.24 y	43:52	-	1.06
119	Hexa	PCB-137	50.00	3.90e+07	1.23 y	44:15	-	1.05
120	Hexa	PCB-130	50.00	3.61e+07	1.23 y	44:21	-	0.97
121	Hexa	PCB-138/163/164	150.00	1.47e+08	1.24 y	44:44	-	1.27
122	Hexa	PCB-158/160	100.00	1.03e+08	1.23 y	44:59	-	1.34
123	Hexa	PCB-129	50.00	3.23e+07	1.24 y	45:13	-	0.84
124	Hexa	PCB-166	50.00	4.98e+07	1.24 y	45:41	-	1.17
125	Hexa	PCB-159	50.00	4.70e+07	1.23 y	46:01	-	1.11
126	Hexa	PCB-128/162	100.00	8.65e+07	1.23 y	46:18	-	1.02
127	Hexa	PCB-167	50.00	5.55e+07	1.22 y	46:41	-	1.20
128	Hexa	PCB-156	50.00	5.05e+07	1.25 y	48:00	-	1.14
129	Hexa	PCB-157	50.00	5.18e+07	1.24 y	48:16	-	1.13
130	Hexa	PCB-169	50.00	4.66e+07	1.27 y	50:20	-	1.08
131	Hepta	PCB-188	50.00	4.99e+07	1.05 y	42:46	-	1.56
132	Hepta	PCB-184	50.00	5.13e+07	1.06 y	43:13	-	1.60
133	Hepta	PCB-179	50.00	4.15e+07	1.06 y	44:00	-	1.30
134	Hepta	PCB-176	50.00	4.68e+07	1.04 y	44:28	-	1.46
135	Hepta	PCB-186	50.00	4.64e+07	1.05 y	45:05	-	1.45
136	Hepta	PCB-178	50.00	3.27e+07	1.05 y	45:34	-	1.02
137	Hepta	PCB-175	50.00	3.22e+07	1.05 y	45:55	-	1.01
138	Hepta	PCB-182/187	100.00	7.77e+07	1.05 y	46:05	-	1.21
139	Hepta	PCB-183	50.00	3.68e+07	1.05 y	46:24	-	1.15
140	Hepta	PCB-185	50.00	4.12e+07	1.07 y	47:04	-	1.78
141	Hepta	PCB-174	50.00	3.30e+07	1.02 y	47:26	-	1.42
142	Hepta	PCB-181	50.00	3.14e+07	1.06 y	47:33	-	1.36
143	Hepta	PCB-177	50.00	2.91e+07	1.05 y	47:42	-	1.26
144	Hepta	PCB-171	50.00	3.69e+07	1.07 y	48:00	-	1.59
145	Hepta	PCB-173	50.00	2.61e+07	1.04 y	48:26	-	1.13
146	Hepta	PCB-172	50.00	3.80e+07	1.07 y	48:53	-	1.64
147	Hepta	PCB-192	50.00	4.11e+07	1.06 y	49:04	-	1.78
148	Hepta	PCB-180	50.00	3.12e+07	1.05 y	49:17	-	1.35
149	Hepta	PCB-193	50.00	3.98e+07	1.07 y	49:27	-	1.72
150	Hepta	PCB-191	50.00	3.90e+07	1.07 y	49:42	-	1.68
151	Hepta	PCB-170	50.00	2.97e+07	1.05 y	50:41	-	1.62
152	Hepta	PCB-190	50.00	4.08e+07	1.06 y	50:51	-	2.23
153	Hepta	PCB-189	50.00	3.71e+07	1.05 y	52:08	-	1.55
154	Octa	PCB-202	50.00	3.01e+07	0.94 y	48:12	-	1.06
155	Octa	PCB-201	50.00	3.19e+07	0.91 y	48:41	-	1.13
156	Octa	PCB-204	50.00	3.22e+07	0.91 y	48:50	-	1.14
157	Octa	PCB-197	50.00	3.03e+07	0.91 y	49:09	-	1.07
158	Octa	PCB-200	50.00	3.01e+07	0.90 y	49:59	-	1.06
159	Octa	PCB-198	50.00	2.18e+07	0.92 y	51:15	-	0.77
160	Octa	PCB-199	50.00	2.16e+07	0.91 y	51:21	-	0.76
161	Octa	PCB-196/203	100.00	4.53e+07	0.92 y	51:36	-	0.80
162	Octa	PCB-195	50.00	3.20e+07	0.89 y	52:45	-	1.24
163	Octa	PCB-194	50.00	3.08e+07	0.92 y	53:37	-	1.19

164	Octa	PCB-205	50.00	3.93e+07	0.92 y	53:55	-	1.52
165	Nona	PCB-208	50.00	3.24e+07	1.34 y	52:53	-	0.92
166	Nona	PCB-207	50.00	3.78e+07	1.32 y	53:12	-	1.08
167	Nona	PCB-206	50.00	2.13e+07	1.36 y	55:20	-	1.01
168	Deca	PCB-209	50.00	2.30e+07	1.21 y	56:38	-	1.20
169	Tot η	Total Mono-PCB	0.00	-	- n	-	-	1.31
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.21
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.10

172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.21
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.06
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.18
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.23
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.88
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.09
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.41
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.96
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.32
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	1.00
182	Tot η	Total Deca-PCB	50.00	2.30e+07	1.21 y	56:38	-	1.20
183	Monoη	13C-PCB-1	100.00	1.53e+08	3.37 y	16:24	-	0.86
184	Monoη	13C-PCB-3	100.00	1.54e+08	3.41 y	18:54	-	0.86
185	Di-IS	13C-PCB-4	100.00	1.04e+08	1.58 y	20:11	-	0.59
186	Di-IS	13C-PCB-9	100.00	1.59e+08	1.59 y	21:55	-	0.89
187	Di-IS	13C-PCB-11	100.00	1.64e+08	1.57 y	25:13	-	0.92
188	Tri-η	13C-PCB-19	100.00	9.46e+07	1.07 y	24:14	-	0.53
189	Tri-η	13C-PCB-32	100.00	1.39e+08	1.09 y	27:06	-	0.78
190	Tri-η	13C-PCB-28	100.00	1.40e+08	1.06 y	29:01	-	0.92
191	Tri-η	13C-PCB-37	100.00	1.20e+08	1.07 y	32:52	-	0.79
192	Tetrη	13C-PCB-54	100.00	1.23e+08	0.81 y	27:55	-	0.98
193	Tetrη	13C-PCB-52	100.00	9.72e+07	0.80 y	31:24	-	0.78
194	Tetrη	13C-PCB-47	100.00	1.02e+08	0.79 y	31:54	-	0.82
195	Tetrη	13C-PCB-70	100.00	1.22e+08	0.78 y	35:25	-	0.98
196	Tetrη	13C-PCB-80	100.00	1.27e+08	0.80 y	35:49	-	1.01
197	Tetrη	13C-PCB-81	100.00	1.12e+08	0.79 y	38:56	-	0.89
198	Tetη	13C-PCB-77	100.00	1.14e+08	0.78 y	39:32	-	0.91
199	Pentη	13C-PCB-104	100.00	8.52e+07	1.57 y	32:34	-	1.00
200	Pentη	13C-PCB-95	100.00	6.27e+07	1.59 y	35:43	-	0.74
201	Pentη	13C-PCB-101	100.00	6.57e+07	1.54 y	37:23	-	0.77
202	Pentη	13C-PCB-97	100.00	5.89e+07	1.59 y	38:42	-	0.69
203	Pentη	13C-PCB-123	100.00	7.37e+07	1.61 y	41:15	-	0.87
204	Pentη	13C-PCB-118	100.00	7.79e+07	1.58 y	41:26	-	0.92
205	Pentη	13C-PCB-114	100.00	9.33e+07	1.60 y	42:06	-	1.35
206	Pentη	13C-PCB-105	100.00	9.17e+07	1.60 y	42:58	-	1.32
207	Pentη	13C-PCB-127	100.00	1.00e+08	1.57 y	43:17	-	1.45
208	Pentη	13C-PCB-126	100.00	9.05e+07	1.58 y	45:12	-	1.31
209	Hexaη	13C-PCB-155	100.00	7.08e+07	1.29 y	36:55	-	0.83
210	Hexaη	13C-PCB-153	100.00	7.92e+07	1.29 y	43:07	-	1.14
211	Hexaη	13C-PCB-141	100.00	7.45e+07	1.28 y	43:51	-	1.07
212	Hexa	13C-PCB-138	100.00	7.71e+07	1.29 y	44:42	-	1.11
213	Hexaη	13C-PCB-159	100.00	8.48e+07	1.27 y	45:59	-	1.22
214	Hexaη	13C-PCB-167	100.00	9.22e+07	1.30 y	46:40	-	1.33
215	Hexaη	13C-PCB-156	100.00	8.85e+07	1.29 y	47:58	-	1.28
216	Hexaη	13C-PCB-157	100.00	9.20e+07	1.29 y	48:15	-	1.33
217	Hexaη	13C-PCB-169	100.00	8.62e+07	1.27 y	50:19	-	1.24
218	Heptη	13C-PCB-188	100.00	6.40e+07	0.46 y	42:45	-	0.92
219	Heptη	13C-PCB-180	100.00	4.63e+07	0.47 y	49:15	-	0.67
220	Heptη	13C-PCB-170	100.00	3.66e+07	0.47 y	50:40	-	0.53
221	Heptη	13C-PCB-189	100.00	4.78e+07	0.47 y	52:07	-	0.69
222	Octaη	13C-PCB-202	100.00	5.65e+07	0.94 y	48:11	-	0.81

223	Octaη	13C-PCB-194	100.00	5.16e+07	0.92 y	53:36	-	0.79
224	Nonaη	13C-PCB-208	100.00	7.00e+07	0.78 y	52:53	-	1.08
225	Nonaη	13C-PCB-206	100.00	4.23e+07	0.78 y	55:19	-	0.65
226	Decaη	13C-PCB-209	100.00	3.85e+07	1.23 y	56:37	-	0.59
227	DI-RS	13C-PCB-15	100.00	1.78e+08	1.59 y	25:55	-	1.00
228	Tri-η	13C-PCB-31	100.00	1.52e+08	1.05 y	28:55	-	1.00
229	Tetraη	13C-PCB-60	100.00	1.25e+08	0.79 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	8.51e+07	1.57 y	39:07	-	1.00
231	Hexaη	13C-PCB-128	100.00	6.93e+07	1.27 y	46:16	-	1.00
232	Octaη	13C-PCB-205	100.00	6.51e+07	0.91 y	53:54	-	1.00

233	CRS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:42	-	1.00
234	CRS	13C-PCB-178	100.00	4.30e+07	0.46 y	45:33	-	0.62
235	PS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:42	-	1.12
236	PS	13C-PCB-178	100.00	4.30e+07	0.46 y	45:33	-	0.93

Filename: 140623E2 S: 5 Acquired: 23-JUN-14 15:57:45
 Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
 Sample text: ST140623E2-5 PCB CS4 14F1605

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	400.00	7.39e+08	3.02 y	16:25	-	1.29
2	Mono	PCB-2	400.00	7.73e+08	3.00 y	18:41	-	1.28
3	Mono	PCB-3	400.00	9.04e+08	3.01 y	18:55	-	1.49
4	Di	PCB-4/10	1600.00	2.74e+09	1.64 y	20:14	-	1.60
5	Di	PCB-7/9	1600.00	3.22e+09	1.65 y	21:58	-	1.22
6	Di	PCB-6	800.00	1.77e+09	1.65 y	22:36	-	1.34
7	Di	PCB-5/8	1600.00	3.07e+09	1.65 y	23:01	-	1.16
8	Di	PCB-14	800.00	1.56e+09	1.66 y	24:04	-	1.12
9	Di	PCB-11	800.00	1.52e+09	1.66 y	25:15	-	1.09
10	Di	PCB-12/13	1600.00	3.35e+09	1.64 y	25:37	-	1.20
11	Di	PCB-15	800.00	1.81e+09	1.65 y	25:56	-	1.30
12	Tri	PCB-19	400.00	3.88e+08	1.06 y	24:15	-	1.07
13	Tri	PCB-30	400.00	6.46e+08	1.07 y	25:08	-	1.79
14	Tri	PCB-18	400.00	4.49e+08	1.07 y	25:51	-	0.78
15	Tri	PCB-17	400.00	5.20e+08	1.07 y	26:02	-	0.91
16	Tri	PCB-24/27	800.00	1.36e+09	1.07 y	26:36	-	1.18
17	Tri	PCB-16/32	800.00	1.07e+09	1.06 y	27:06	-	0.94
18	Tri	PCB-34	400.00	6.31e+08	1.04 y	27:53	-	1.16
19	Tri	PCB-23	400.00	6.73e+08	1.03 y	27:58	-	1.24
20	Tri	PCB-29	400.00	5.51e+08	1.00 y	28:13	-	1.01
21	Tri	PCB-26	400.00	6.09e+08	1.01 y	28:26	-	1.12
22	Tri	PCB-25	400.00	6.81e+08	1.01 y	28:35	-	1.25
23	Tri	PCB-31	400.00	6.90e+08	1.00 y	28:56	-	1.27
24	Tri	PCB-28	400.00	8.88e+08	1.03 y	29:02	-	1.63
25	Tri	PCB-20/21/33	1200.00	1.80e+09	1.00 y	29:38	-	1.11
26	Tri	PCB-22	400.00	5.78e+08	1.01 y	30:06	-	1.06
27	Tri	PCB-36	400.00	5.30e+08	1.01 y	30:41	-	1.05
28	Tri	PCB-39	400.00	4.63e+08	0.99 y	31:09	-	0.92
29	Tri	PCB-38	400.00	5.20e+08	1.00 y	31:56	-	1.03
30	Tri	PCB-35	400.00	5.75e+08	0.99 y	32:27	-	1.15
31	Tri	PCB-37	400.00	5.64e+08	1.01 y	32:53	-	1.12
32	Tetra	PCB-54	400.00	5.49e+08	0.77 y	27:57	-	1.09
33	Tetra	PCB-50	400.00	4.32e+08	0.76 y	29:05	-	0.86
34	Tetra	PCB-53	400.00	4.28e+08	0.76 y	29:44	-	1.09
35	Tetra	PCB-51	400.00	3.77e+08	0.76 y	30:04	-	0.96
36	Tetra	PCB-45	400.00	3.32e+08	0.76 y	30:30	-	0.84
37	Tetra	PCB-46	400.00	3.25e+08	0.77 y	30:59	-	0.83
38	Tetra	PCB-52/69	800.00	9.79e+08	0.75 y	31:27	-	1.25
39	Tetra	PCB-73	400.00	5.09e+08	0.76 y	31:34	-	1.30
40	Tetra	PCB-43/49	800.00	7.49e+08	0.75 y	31:43	-	0.95
41	Tetra	PCB-47	400.00	4.38e+08	0.76 y	31:56	-	1.04

42	Tetra	PCB-48/75	800.00	9.87e+08	0.76 y	32:03	-	1.17
43	Tetra	PCB-65	400.00	4.70e+08	0.75 y	32:19	-	1.12
44	Tetra	PCB-62	400.00	5.15e+08	0.76 y	32:25	-	1.22
45	Tetra	PCB-44	400.00	3.32e+08	0.76 y	32:44	-	0.79
46	Tetra	PCB-42/59	800.00	9.34e+08	0.76 y	32:57	-	1.11
47	Tetra	PCB-41/64/71/72	1600.00	2.01e+09	0.77 y	33:32	-	1.19
48	Tetra	PCB-68	400.00	5.53e+08	0.76 y	33:47	-	1.31
49	Tetra	PCB-40	400.00	2.93e+08	0.77 y	34:01	-	0.69
50	Tetra	PCB-57	400.00	4.98e+08	0.76 y	34:21	-	0.96
51	Tetra	PCB-67	400.00	5.63e+08	0.76 y	34:40	-	1.09
52	Tetra	PCB-58	400.00	4.58e+08	0.78 y	34:47	-	0.88

53	Tetra	PCB-63	400.00	4.57e+08	0.76 y	34:56	-	0.88
54	Tetra	PCB-74	400.00	6.33e+08	0.76 y	35:14	-	1.23
55	Tetra	PCB-61/70	800.00	9.54e+08	0.76 y	35:24	-	0.92
56	Tetra	PCB-76/66	800.00	1.06e+09	0.77 y	35:37	-	1.03
57	Tetra	PCB-80	400.00	6.36e+08	0.77 y	35:51	-	1.18
58	Tetra	PCB-55	400.00	5.68e+08	0.76 y	36:10	-	1.05
59	Tetra	PCB-56/60	800.00	1.04e+09	0.76 y	36:40	-	0.97
60	Tetra	PCB-79	400.00	5.59e+08	0.77 y	37:44	-	1.04
61	Tetra	PCB-78	400.00	5.77e+08	0.76 y	38:26	-	1.20
62	Tetra	PCB-81	400.00	6.11e+08	0.76 y	38:58	-	1.27
63	Tetra	PCB-77	400.00	5.41e+08	0.79 y	39:33	-	1.07
64	Penta	PCB-104	400.00	4.22e+08	1.58 y	32:35	-	1.19
65	Penta	PCB-96	400.00	4.08e+08	1.59 y	33:51	-	1.16
66	Penta	PCB-103	400.00	3.36e+08	1.56 y	34:23	-	0.95
67	Penta	PCB-100	400.00	3.34e+08	1.58 y	34:43	-	0.95
68	Penta	PCB-94	400.00	2.70e+08	1.58 y	35:11	-	1.00
69	Penta	PCB-95/98/102	1200.00	9.97e+08	1.58 y	35:41	-	1.23
70	Penta	PCB-93	400.00	2.10e+08	1.55 y	35:49	-	0.77
71	Penta	PCB-88/91	800.00	6.29e+08	1.54 y	36:06	-	1.16
72	Penta	PCB-121	400.00	4.11e+08	1.62 y	36:13	-	1.52
73	Penta	PCB-84/92	800.00	5.85e+08	1.57 y	37:02	-	1.04
74	Penta	PCB-89	400.00	3.12e+08	1.58 y	37:13	-	1.11
75	Penta	PCB-90/101	800.00	6.09e+08	1.57 y	37:23	-	1.08
76	Penta	PCB-113	400.00	3.62e+08	1.56 y	37:38	-	1.29
77	Penta	PCB-99	400.00	4.00e+08	1.57 y	37:44	-	1.42
78	Penta	PCB-119	400.00	3.82e+08	1.57 y	38:12	-	1.53
79	Penta	PCB-108/112	800.00	6.45e+08	1.57 y	38:21	-	1.29
80	Penta	PCB-83	400.00	3.69e+08	1.56 y	38:31	-	1.48
81	Penta	PCB-97	400.00	2.93e+08	1.58 y	38:43	-	1.17
82	Penta	PCB-86	400.00	2.07e+08	1.53 y	38:52	-	0.83
83	Penta	PCB-87/117/125	1200.00	1.19e+09	1.57 y	38:59	-	1.59
84	Penta	PCB-111/115	800.00	8.24e+08	1.65 y	39:09	-	1.65
85	Penta	PCB-85/116	800.00	6.56e+08	1.48 y	39:17	-	1.31
86	Penta	PCB-120	400.00	4.25e+08	1.57 y	39:30	-	1.70
87	Penta	PCB-110	400.00	3.85e+08	1.58 y	39:40	-	1.54
88	Penta	PCB-82	400.00	2.39e+08	1.57 y	40:17	-	0.76
89	Penta	PCB-124	400.00	4.72e+08	1.57 y	40:57	-	1.51
90	Penta	PCB-107/109	800.00	8.57e+08	1.57 y	41:06	-	1.37
91	Penta	PCB-123	400.00	3.63e+08	1.58 y	41:16	-	1.16
92	Penta	PCB-106/118	800.00	7.95e+08	1.58 y	41:29	-	1.15
93	Penta	PCB-114	400.00	5.21e+08	1.63 y	42:07	-	1.28
94	Penta	PCB-122	400.00	4.51e+08	1.65 y	42:16	-	1.11
95	Penta	PCB-105	400.00	5.21e+08	1.62 y	42:59	-	1.28
96	Penta	PCB-127	400.00	5.57e+08	1.64 y	43:19	-	1.28
97	Penta	PCB-126	400.00	4.53e+08	1.65 y	45:14	-	1.18
98	Hexa	PCB-155	400.00	3.27e+08	1.28 y	36:57	-	1.11
99	Hexa	PCB-150	400.00	3.03e+08	1.28 y	38:13	-	1.03
100	Hexa	PCB-152	400.00	3.29e+08	1.27 y	38:42	-	1.12
101	Hexa	PCB-145	400.00	3.63e+08	1.28 y	39:09	-	1.23
102	Hexa	PCB-136	400.00	3.55e+08	1.28 y	39:28	-	1.21

103	Hexa	PCB-148	400.00	2.11e+08	1.30 y	39:34	-	0.72
104	Hexa	PCB-154	400.00	2.46e+08	1.28 y	40:03	-	0.83
105	Hexa	PCB-151	400.00	2.09e+08	1.29 y	40:42	-	0.71
106	Hexa	PCB-135	400.00	2.14e+08	1.26 y	40:55	-	0.73
107	Hexa	PCB-144	400.00	2.42e+08	1.27 y	41:01	-	0.82
108	Hexa	PCB-147	400.00	2.44e+08	1.29 y	41:09	-	0.83
109	Hexa	PCB-139/149	800.00	4.56e+08	1.27 y	41:25	-	0.77
110	Hexa	PCB-140	400.00	2.10e+08	1.30 y	41:37	-	0.71
111	Hexa	PCB-134/143	800.00	6.18e+08	1.24 y	42:03	-	0.94
112	Hexa	PCB-133/142	800.00	5.46e+08	1.24 y	42:20	-	0.83
113	Hexa	PCB-131	400.00	2.97e+08	1.24 y	42:31	-	0.90

114	Hexa	PCB-146/165	800.00	8.31e+08	1.24 y	42:43	-	1.26
115	Hexa	PCB-132/161	800.00	7.22e+08	1.24 y	42:58	-	1.09
116	Hexa	PCB-153	400.00	4.21e+08	1.25 y	43:08	-	1.27
117	Hexa	PCB-168	400.00	4.88e+08	1.24 y	43:20	-	1.48
118	Hexa	PCB-141	400.00	3.29e+08	1.24 y	43:53	-	1.05
119	Hexa	PCB-137	400.00	3.31e+08	1.24 y	44:16	-	1.06
120	Hexa	PCB-130	400.00	3.00e+08	1.24 y	44:22	-	0.96
121	Hexa	PCB-138/163/164	1200.00	1.27e+09	1.25 y	44:45	-	1.31
122	Hexa	PCB-158/160	800.00	8.83e+08	1.24 y	45:00	-	1.37
123	Hexa	PCB-129	400.00	2.76e+08	1.24 y	45:14	-	0.86
124	Hexa	PCB-166	400.00	4.30e+08	1.24 y	45:41	-	1.18
125	Hexa	PCB-159	400.00	4.02e+08	1.27 y	46:00	-	1.10
126	Hexa	PCB-128/162	800.00	7.56e+08	1.24 y	46:18	-	1.03
127	Hexa	PCB-167	400.00	4.81e+08	1.24 y	46:41	-	1.19
128	Hexa	PCB-156	400.00	4.44e+08	1.24 y	47:59	-	1.16
129	Hexa	PCB-157	400.00	4.52e+08	1.25 y	48:16	-	1.12
130	Hexa	PCB-169	400.00	4.05e+08	1.24 y	50:20	-	1.07
131	Hepta	PCB-188	400.00	4.10e+08	1.06 y	42:46	-	1.52
132	Hepta	PCB-184	400.00	4.29e+08	1.05 y	43:13	-	1.60
133	Hepta	PCB-179	400.00	3.39e+08	1.06 y	44:01	-	1.26
134	Hepta	PCB-176	400.00	3.89e+08	1.05 y	44:28	-	1.45
135	Hepta	PCB-186	400.00	3.92e+08	1.05 y	45:05	-	1.46
136	Hepta	PCB-178	400.00	2.70e+08	1.06 y	45:34	-	1.00
137	Hepta	PCB-175	400.00	2.66e+08	1.05 y	45:55	-	0.99
138	Hepta	PCB-182/187	800.00	6.75e+08	1.05 y	46:06	-	1.26
139	Hepta	PCB-183	400.00	3.18e+08	1.06 y	46:24	-	1.18
140	Hepta	PCB-185	400.00	3.60e+08	1.05 y	47:05	-	1.82
141	Hepta	PCB-174	400.00	2.91e+08	1.05 y	47:26	-	1.47
142	Hepta	PCB-181	400.00	2.68e+08	1.07 y	47:33	-	1.35
143	Hepta	PCB-177	400.00	2.53e+08	1.05 y	47:43	-	1.28
144	Hepta	PCB-171	400.00	3.19e+08	1.05 y	48:00	-	1.61
145	Hepta	PCB-173	400.00	2.24e+08	1.05 y	48:27	-	1.13
146	Hepta	PCB-172	400.00	3.36e+08	1.06 y	48:53	-	1.70
147	Hepta	PCB-192	400.00	3.55e+08	1.05 y	49:05	-	1.79
148	Hepta	PCB-180	400.00	2.65e+08	1.05 y	49:16	-	1.34
149	Hepta	PCB-193	400.00	3.34e+08	1.06 y	49:28	-	1.69
150	Hepta	PCB-191	400.00	3.32e+08	1.06 y	49:42	-	1.67
151	Hepta	PCB-170	400.00	2.49e+08	1.04 y	50:42	-	1.61
152	Hepta	PCB-190	400.00	3.45e+08	1.05 y	50:51	-	2.23
153	Hepta	PCB-189	400.00	3.17e+08	1.06 y	52:08	-	1.55
154	Octa	PCB-202	400.00	2.60e+08	0.91 y	48:13	-	1.10
155	Octa	PCB-201	400.00	2.75e+08	0.90 y	48:42	-	1.16
156	Octa	PCB-204	400.00	2.80e+08	0.91 y	48:51	-	1.18
157	Octa	PCB-197	400.00	2.59e+08	0.92 y	49:09	-	1.09
158	Octa	PCB-200	400.00	2.59e+08	0.91 y	49:59	-	1.09
159	Octa	PCB-198	400.00	1.81e+08	1.01 y	51:16	-	0.76
160	Octa	PCB-199	400.00	1.96e+08	0.84 y	51:21	-	0.82
161	Octa	PCB-196/203	800.00	4.10e+08	0.91 y	51:37	-	0.86
162	Octa	PCB-195	400.00	2.74e+08	0.91 y	52:46	-	1.25
163	Octa	PCB-194	400.00	2.60e+08	0.92 y	53:38	-	1.18

164	Octa	PCB-205	400.00	3.32e+08	0.92 y	53:55	-	1.51
165	Nona	PCB-208	400.00	2.75e+08	1.33 y	52:54	-	0.94
166	Nona	PCB-207	400.00	3.26e+08	1.32 y	53:12	-	1.12
167	Nona	PCB-206	400.00	1.78e+08	1.32 y	55:19	-	0.97
168	Deca	PCB-209	400.00	2.00e+08	1.19 y	56:35	-	1.17
169	Tot η	Total Mono-PCB	0.00	-	- n	-	-	1.35
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.22
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.10

172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.15
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.06
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.18
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.23
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.90
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.11
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.41
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.99
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.32
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	1.02
182	Tot η	Total Deca-PCB	400.00	2.00e+08	1.19 y	56:35	-	1.17
183	Monoη	13C-PCB-1	100.00	1.43e+08	3.35 y	16:24	-	0.77
184	Monoη	13C-PCB-3	100.00	1.51e+08	3.41 y	18:54	-	0.81
185	Di-IS	13C-PCB-4	100.00	1.07e+08	1.60 y	20:12	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.65e+08	1.57 y	21:55	-	0.88
187	Di-IS	13C-PCB-11	100.00	1.74e+08	1.58 y	25:13	-	0.93
188	Tri-η	13C-PCB-19	100.00	9.04e+07	1.10 y	24:14	-	0.48
189	Tri-η	13C-PCB-32	100.00	1.43e+08	1.10 y	27:06	-	0.77
190	Tri-η	13C-PCB-28	100.00	1.36e+08	1.05 y	29:02	-	0.89
191	Tri-η	13C-PCB-37	100.00	1.26e+08	1.06 y	32:52	-	0.82
192	Tetrη	13C-PCB-54	100.00	1.26e+08	0.81 y	27:55	-	0.97
193	Tetrη	13C-PCB-52	100.00	9.82e+07	0.78 y	31:24	-	0.76
194	Tetrη	13C-PCB-47	100.00	1.05e+08	0.77 y	31:55	-	0.81
195	Tetrη	13C-PCB-70	100.00	1.29e+08	0.79 y	35:25	-	1.00
196	Tetrη	13C-PCB-80	100.00	1.35e+08	0.80 y	35:50	-	1.04
197	Tetrη	13C-PCB-81	100.00	1.20e+08	0.78 y	38:56	-	0.93
198	Tetrη	13C-PCB-77	100.00	1.27e+08	0.80 y	39:32	-	0.98
199	Pentη	13C-PCB-104	100.00	8.83e+07	1.55 y	32:34	-	1.00
200	Pentη	13C-PCB-95	100.00	6.77e+07	1.62 y	35:43	-	0.77
201	Pentη	13C-PCB-101	100.00	7.03e+07	1.56 y	37:23	-	0.80
202	Pentη	13C-PCB-97	100.00	6.24e+07	1.61 y	38:42	-	0.71
203	Pentη	13C-PCB-123	100.00	7.82e+07	1.58 y	41:16	-	0.88
204	Pentη	13C-PCB-118	100.00	8.64e+07	1.60 y	41:26	-	0.98
205	Pentη	13C-PCB-114	100.00	1.01e+08	1.61 y	42:06	-	1.37
206	Pentη	13C-PCB-105	100.00	1.02e+08	1.58 y	42:58	-	1.38
207	Pentη	13C-PCB-127	100.00	1.09e+08	1.60 y	43:18	-	1.48
208	Pentη	13C-PCB-126	100.00	9.62e+07	1.57 y	45:12	-	1.30
209	Hexaη	13C-PCB-155	100.00	7.37e+07	1.30 y	36:56	-	0.83
210	Hexaη	13C-PCB-153	100.00	8.26e+07	1.29 y	43:07	-	1.12
211	Hexaη	13C-PCB-141	100.00	7.81e+07	1.29 y	43:51	-	1.06
212	Hexa	13C-PCB-138	100.00	8.07e+07	1.29 y	44:42	-	1.09
213	Hexaη	13C-PCB-159	100.00	9.15e+07	1.26 y	46:00	-	1.24
214	Hexaη	13C-PCB-167	100.00	1.01e+08	1.25 y	46:40	-	1.37
215	Hexaη	13C-PCB-156	100.00	9.58e+07	1.27 y	47:59	-	1.30
216	Hexaη	13C-PCB-157	100.00	1.01e+08	1.31 y	48:15	-	1.36
217	Hexaη	13C-PCB-169	100.00	9.47e+07	1.29 y	50:19	-	1.28
218	Heptη	13C-PCB-188	100.00	6.72e+07	0.46 y	42:45	-	0.91
219	Heptη	13C-PCB-180	100.00	4.95e+07	0.46 y	49:15	-	0.67
220	Heptη	13C-PCB-170	100.00	3.88e+07	0.47 y	50:41	-	0.53
221	Heptη	13C-PCB-189	100.00	5.10e+07	0.48 y	52:07	-	0.69
222	Octaη	13C-PCB-202	100.00	5.93e+07	0.90 y	48:11	-	0.80

223	Octaη	13C-PCB-194	100.00	5.48e+07	0.91 y	53:37	-	0.80
224	Nonaη	13C-PCB-208	100.00	7.31e+07	0.78 y	52:53	-	1.07
225	Nonaη	13C-PCB-206	100.00	4.59e+07	0.80 y	55:18	-	0.67
226	Decaη	13C-PCB-209	100.00	4.28e+07	1.18 y	56:34	-	0.63
227	DI-RS	13C-PCB-15	100.00	1.87e+08	1.59 y	25:55	-	1.00
228	Tri-η	13C-PCB-31	100.00	1.53e+08	1.05 y	28:55	-	1.00
229	Tetrη	13C-PCB-60	100.00	1.30e+08	0.78 y	36:40	-	1.00
230	Penta	13C-PCB-111	100.00	8.84e+07	1.58 y	39:07	-	1.00
231	Hexaη	13C-PCB-128	100.00	7.38e+07	1.22 y	46:17	-	1.00
232	Octaη	13C-PCB-205	100.00	6.83e+07	0.90 y	53:54	-	1.00

233	CRS	13C-PCB-79	100.00	1.31e+08	0.78 y	37:43	-	1.01
234	CRS	13C-PCB-178	100.00	4.40e+07	0.47 y	45:33	-	0.60
235	PS	13C-PCB-79	100.00	1.31e+08	0.78 y	37:43	-	1.09
236	PS	13C-PCB-178	100.00	4.40e+07	0.47 y	45:33	-	0.89

Filename: 140623E2 S: 6 Acquired: 23-JUN-14 17:01:39
 Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
 Sample text: ST140623E2-6 PCB CS5 14F1606

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	750.00	1.47e+09	3.03 y	16:25	- 1.29
2	Mono	PCB-2	750.00	1.54e+09	3.03 y	18:42	- 1.26
3	Mono	PCB-3	750.00	1.85e+09	3.03 y	18:55	- 1.51
4	Di	PCB-4/10	3000.00	5.45e+09	1.65 y	20:15	- 1.62
5	Di	PCB-7/9	3000.00	6.53e+09	1.65 y	21:58	- 1.26
6	Di	PCB-6	1500.00	3.51e+09	1.66 y	22:36	- 1.35
7	Di	PCB-5/8	3000.00	6.19e+09	1.65 y	23:01	- 1.19
8	Di	PCB-14	1500.00	3.16e+09	1.66 y	24:04	- 1.15
9	Di	PCB-11	1500.00	3.07e+09	1.65 y	25:14	- 1.12
10	Di	PCB-12/13	3000.00	6.82e+09	1.65 y	25:38	- 1.24
11	Di	PCB-15	1500.00	3.68e+09	1.66 y	25:56	- 1.34
12	Tri	PCB-19	750.00	7.61e+08	1.06 y	24:15	- 1.09
13	Tri	PCB-30	750.00	1.28e+09	1.06 y	25:08	- 1.83
14	Tri	PCB-18	750.00	8.96e+08	1.06 y	25:51	- 0.82
15	Tri	PCB-17	750.00	1.03e+09	1.07 y	26:02	- 0.95
16	Tri	PCB-24/27	1500.00	2.73e+09	1.07 y	26:36	- 1.25
17	Tri	PCB-16/32	1500.00	2.10e+09	1.07 y	27:06	- 0.96
18	Tri	PCB-34	750.00	1.12e+09	1.02 y	27:52	- 1.09
19	Tri	PCB-23	750.00	1.37e+09	1.02 y	27:58	- 1.33
20	Tri	PCB-29	750.00	1.10e+09	1.00 y	28:13	- 1.06
21	Tri	PCB-26	750.00	1.23e+09	1.02 y	28:25	- 1.19
22	Tri	PCB-25	750.00	1.15e+09	0.98 y	28:35	- 1.11
23	Tri	PCB-31	750.00	1.08e+09	0.96 y	28:56	- 1.05
24	Tri	PCB-28	750.00	1.62e+09	1.02 y	29:03	- 1.57
25	Tri	PCB-20/21/33	2250.00	3.02e+09	0.99 y	29:39	- 0.98
26	Tri	PCB-22	750.00	1.22e+09	1.01 y	30:05	- 1.18
27	Tri	PCB-36	750.00	9.30e+08	0.97 y	30:41	- 0.99
28	Tri	PCB-39	750.00	9.84e+08	1.03 y	31:10	- 1.05
29	Tri	PCB-38	750.00	9.41e+08	0.97 y	31:56	- 1.00
30	Tri	PCB-35	750.00	1.09e+09	0.98 y	32:27	- 1.17
31	Tri	PCB-37	750.00	1.06e+09	0.97 y	32:53	- 1.13
32	Tetra	PCB-54	750.00	1.06e+09	0.76 y	27:57	- 1.09
33	Tetra	PCB-50	750.00	8.12e+08	0.76 y	29:06	- 0.83
34	Tetra	PCB-53	750.00	7.83e+08	0.75 y	29:44	- 1.05
35	Tetra	PCB-51	750.00	7.61e+08	0.75 y	30:04	- 1.02
36	Tetra	PCB-45	750.00	6.16e+08	0.75 y	30:30	- 0.82
37	Tetra	PCB-46	750.00	6.05e+08	0.76 y	30:59	- 0.81
38	Tetra	PCB-52/69	1500.00	2.06e+09	0.76 y	31:27	- 1.37
39	Tetra	PCB-73	750.00	9.51e+08	0.78 y	31:34	- 1.27
40	Tetra	PCB-43/49	1500.00	1.52e+09	0.76 y	31:44	- 1.02
41	Tetra	PCB-47	750.00	7.65e+08	0.74 y	31:56	- 0.98

42	Tetra	PCB-48/75	1500.00	1.93e+09	0.76 y	32:03	-	1.24
43	Tetra	PCB-65	750.00	9.32e+08	0.75 y	32:19	-	1.19
44	Tetra	PCB-62	750.00	9.33e+08	0.76 y	32:26	-	1.19
45	Tetra	PCB-44	750.00	6.53e+08	0.76 y	32:44	-	0.83
46	Tetra	PCB-42/59	1500.00	1.82e+09	0.76 y	32:57	-	1.17
47	Tetra	PCB-41/64/71/72	3000.00	3.95e+09	0.77 y	33:32	-	1.26
48	Tetra	PCB-68	750.00	1.08e+09	0.76 y	33:47	-	1.38
49	Tetra	PCB-40	750.00	5.59e+08	0.77 y	34:00	-	0.71
50	Tetra	PCB-57	750.00	1.01e+09	0.77 y	34:22	-	0.99
51	Tetra	PCB-67	750.00	1.07e+09	0.76 y	34:40	-	1.05
52	Tetra	PCB-58	750.00	9.72e+08	0.77 y	34:47	-	0.96

53	Tetra	PCB-63	750.00	9.30e+08	0.77 y	34:56	-	0.92
54	Tetra	PCB-74	750.00	1.25e+09	0.76 y	35:13	-	1.23
55	Tetra	PCB-61/70	1500.00	1.91e+09	0.76 y	35:24	-	0.94
56	Tetra	PCB-76/66	1500.00	2.06e+09	0.76 y	35:37	-	1.02
57	Tetra	PCB-80	750.00	1.23e+09	0.76 y	35:51	-	1.18
58	Tetra	PCB-55	750.00	1.10e+09	0.75 y	36:10	-	1.06
59	Tetra	PCB-56/60	1500.00	2.06e+09	0.76 y	36:40	-	0.98
60	Tetra	PCB-79	750.00	1.10e+09	0.77 y	37:44	-	1.06
61	Tetra	PCB-78	750.00	1.22e+09	0.77 y	38:26	-	1.24
62	Tetra	PCB-81	750.00	1.30e+09	0.78 y	38:58	-	1.33
63	Tetra	PCB-77	750.00	1.06e+09	0.79 y	39:33	-	1.09
64	Penta	PCB-104	750.00	8.02e+08	1.57 y	32:35	-	1.21
65	Penta	PCB-96	750.00	7.85e+08	1.58 y	33:50	-	1.19
66	Penta	PCB-103	750.00	6.73e+08	1.58 y	34:22	-	1.02
67	Penta	PCB-100	750.00	6.59e+08	1.58 y	34:44	-	1.00
68	Penta	PCB-94	750.00	5.35e+08	1.58 y	35:12	-	1.05
69	Penta	PCB-95/98/102	2250.00	1.88e+09	1.56 y	35:41	-	1.23
70	Penta	PCB-93	750.00	4.72e+08	1.58 y	35:49	-	0.93
71	Penta	PCB-88/91	1500.00	1.12e+09	1.56 y	36:05	-	1.10
72	Penta	PCB-121	750.00	8.92e+08	1.59 y	36:12	-	1.75
73	Penta	PCB-84/92	1500.00	1.15e+09	1.58 y	37:02	-	1.06
74	Penta	PCB-89	750.00	5.99e+08	1.56 y	37:14	-	1.10
75	Penta	PCB-90/101	1500.00	1.20e+09	1.56 y	37:24	-	1.11
76	Penta	PCB-113	750.00	7.64e+08	1.55 y	37:39	-	1.41
77	Penta	PCB-99	750.00	7.39e+08	1.58 y	37:44	-	1.36
78	Penta	PCB-119	750.00	7.86e+08	1.58 y	38:11	-	1.63
79	Penta	PCB-108/112	1500.00	1.31e+09	1.58 y	38:22	-	1.36
80	Penta	PCB-83	750.00	7.22e+08	1.58 y	38:31	-	1.49
81	Penta	PCB-97	750.00	5.75e+08	1.58 y	38:43	-	1.19
82	Penta	PCB-86	750.00	4.64e+08	1.55 y	38:51	-	0.96
83	Penta	PCB-87/117/125	2250.00	2.41e+09	1.59 y	38:59	-	1.66
84	Penta	PCB-111/115	1500.00	1.61e+09	1.57 y	39:08	-	1.67
85	Penta	PCB-85/116	1500.00	1.32e+09	1.57 y	39:16	-	1.37
86	Penta	PCB-120	750.00	8.54e+08	1.57 y	39:30	-	1.77
87	Penta	PCB-110	750.00	7.47e+08	1.59 y	39:39	-	1.55
88	Penta	PCB-82	750.00	4.68e+08	1.56 y	40:16	-	0.76
89	Penta	PCB-124	750.00	9.82e+08	1.56 y	40:57	-	1.60
90	Penta	PCB-107/109	1500.00	1.67e+09	1.57 y	41:06	-	1.36
91	Penta	PCB-123	750.00	7.28e+08	1.57 y	41:17	-	1.19
92	Penta	PCB-106/118	1500.00	1.64e+09	1.59 y	41:29	-	1.20
93	Penta	PCB-114	750.00	1.06e+09	1.62 y	42:07	-	1.28
94	Penta	PCB-122	750.00	9.29e+08	1.66 y	42:15	-	1.12
95	Penta	PCB-105	750.00	1.10e+09	1.63 y	42:59	-	1.33
96	Penta	PCB-127	750.00	1.16e+09	1.65 y	43:18	-	1.32
97	Penta	PCB-126	750.00	9.26e+08	1.64 y	45:13	-	1.21
98	Hexa	PCB-155	750.00	6.31e+08	1.29 y	36:58	-	1.16
99	Hexa	PCB-150	750.00	5.78e+08	1.28 y	38:13	-	1.06
100	Hexa	PCB-152	750.00	6.42e+08	1.29 y	38:42	-	1.18
101	Hexa	PCB-145	750.00	7.08e+08	1.29 y	39:09	-	1.30
102	Hexa	PCB-136	750.00	6.49e+08	1.27 y	39:28	-	1.19

103	Hexa	PCB-148	750.00	4.68e+08	1.28 y	39:34	-	0.86
104	Hexa	PCB-154	750.00	4.91e+08	1.28 y	40:03	-	0.90
105	Hexa	PCB-151	750.00	4.20e+08	1.28 y	40:42	-	0.77
106	Hexa	PCB-135	750.00	4.60e+08	1.27 y	40:55	-	0.84
107	Hexa	PCB-144	750.00	4.48e+08	1.29 y	41:02	-	0.82
108	Hexa	PCB-147	750.00	5.04e+08	1.28 y	41:10	-	0.93
109	Hexa	PCB-139/149	1500.00	9.10e+08	1.28 y	41:26	-	0.84
110	Hexa	PCB-140	750.00	4.13e+08	1.28 y	41:37	-	0.76
111	Hexa	PCB-134/143	1500.00	1.26e+09	1.24 y	42:02	-	0.95
112	Hexa	PCB-133/142	1500.00	1.12e+09	1.25 y	42:21	-	0.85
113	Hexa	PCB-131	750.00	5.92e+08	1.24 y	42:30	-	0.90

114	Hexa	PCB-146/165	1500.00	1.70e+09	1.24 y	42:43	-	1.29
115	Hexa	PCB-132/161	1500.00	1.50e+09	1.24 y	42:58	-	1.14
116	Hexa	PCB-153	750.00	8.18e+08	1.25 y	43:08	-	1.24
117	Hexa	PCB-168	750.00	1.00e+09	1.24 y	43:21	-	1.52
118	Hexa	PCB-141	750.00	6.67e+08	1.24 y	43:52	-	1.09
119	Hexa	PCB-137	750.00	7.01e+08	1.23 y	44:15	-	1.14
120	Hexa	PCB-130	750.00	5.55e+08	1.25 y	44:22	-	0.90
121	Hexa	PCB-138/163/164	2250.00	2.58e+09	1.24 y	44:44	-	1.38
122	Hexa	PCB-158/160	1500.00	1.76e+09	1.24 y	44:59	-	1.41
123	Hexa	PCB-129	750.00	5.55e+08	1.24 y	45:14	-	0.89
124	Hexa	PCB-166	750.00	8.60e+08	1.24 y	45:41	-	1.21
125	Hexa	PCB-159	750.00	8.27e+08	1.24 y	46:00	-	1.16
126	Hexa	PCB-128/162	1500.00	1.52e+09	1.24 y	46:18	-	1.07
127	Hexa	PCB-167	750.00	9.41e+08	1.24 y	46:42	-	1.24
128	Hexa	PCB-156	750.00	8.95e+08	1.24 y	47:59	-	1.19
129	Hexa	PCB-157	750.00	9.06e+08	1.25 y	48:16	-	1.15
130	Hexa	PCB-169	750.00	8.21e+08	1.25 y	50:21	-	1.12
131	Hepta	PCB-188	750.00	8.34e+08	1.05 y	42:46	-	1.61
132	Hepta	PCB-184	750.00	8.48e+08	1.06 y	43:13	-	1.64
133	Hepta	PCB-179	750.00	6.69e+08	1.06 y	44:00	-	1.29
134	Hepta	PCB-176	750.00	7.45e+08	1.06 y	44:28	-	1.44
135	Hepta	PCB-186	750.00	7.39e+08	1.05 y	45:05	-	1.43
136	Hepta	PCB-178	750.00	5.20e+08	1.06 y	45:34	-	1.00
137	Hepta	PCB-175	750.00	5.24e+08	1.06 y	45:55	-	1.01
138	Hepta	PCB-182/187	1500.00	1.33e+09	1.05 y	46:05	-	1.28
139	Hepta	PCB-183	750.00	6.17e+08	1.06 y	46:25	-	1.19
140	Hepta	PCB-185	750.00	7.01e+08	1.06 y	47:04	-	1.89
141	Hepta	PCB-174	750.00	5.17e+08	1.05 y	47:26	-	1.40
142	Hepta	PCB-181	750.00	5.76e+08	1.06 y	47:33	-	1.56
143	Hepta	PCB-177	750.00	4.88e+08	1.06 y	47:42	-	1.32
144	Hepta	PCB-171	750.00	6.45e+08	1.06 y	48:01	-	1.74
145	Hepta	PCB-173	750.00	4.34e+08	1.05 y	48:26	-	1.17
146	Hepta	PCB-172	750.00	6.78e+08	1.06 y	48:53	-	1.83
147	Hepta	PCB-192	750.00	6.93e+08	1.05 y	49:04	-	1.87
148	Hepta	PCB-180	750.00	5.13e+08	1.05 y	49:17	-	1.39
149	Hepta	PCB-193	750.00	6.52e+08	1.06 y	49:29	-	1.76
150	Hepta	PCB-191	750.00	6.47e+08	1.05 y	49:42	-	1.75
151	Hepta	PCB-170	750.00	4.90e+08	1.06 y	50:41	-	1.66
152	Hepta	PCB-190	750.00	6.88e+08	1.05 y	50:52	-	2.33
153	Hepta	PCB-189	750.00	6.33e+08	1.05 y	52:08	-	1.58
154	Octa	PCB-202	750.00	5.06e+08	0.91 y	48:13	-	1.14
155	Octa	PCB-201	750.00	5.32e+08	0.91 y	48:42	-	1.20
156	Octa	PCB-204	750.00	5.54e+08	0.92 y	48:52	-	1.25
157	Octa	PCB-197	750.00	4.91e+08	0.92 y	49:10	-	1.11
158	Octa	PCB-200	750.00	4.81e+08	0.92 y	50:00	-	1.09
159	Octa	PCB-198	750.00	3.58e+08	0.91 y	51:16	-	0.81
160	Octa	PCB-199	750.00	3.69e+08	0.92 y	51:23	-	0.83
161	Octa	PCB-196/203	1500.00	8.08e+08	0.92 y	51:38	-	0.91
162	Octa	PCB-195	750.00	5.64e+08	0.92 y	52:47	-	1.30
163	Octa	PCB-194	750.00	5.18e+08	0.92 y	53:40	-	1.20

164	Octa	PCB-205	750.00	6.92e+08	0.92 y	53:57	-	1.60
165	Nona	PCB-208	750.00	5.53e+08	1.33 y	52:55	-	0.94
166	Nona	PCB-207	750.00	6.58e+08	1.33 y	53:14	-	1.12
167	Nona	PCB-206	750.00	3.54e+08	1.32 y	55:22	-	1.03
168	Deca	PCB-209	750.00	3.89e+08	1.19 y	56:40	-	1.22
169	Tot η	Total Mono-PCB	0.00	-	- n	-	-	1.36
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.25
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.15

172	Tot	η	Total Tri-PCB	0.00	-	-	n	-	-	1.12
173	Tot	η	Total Tetra-PCB	0.00	-	-	n	-	-	1.09
174	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	1.23
175	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	1.25
176	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	0.96
177	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	1.14
178	Tot	η	Total Hepta-PCB	0.00	-	-	n	-	-	1.46
179	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	1.03
180	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	1.36
181	Tot	η	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot	η	Total Deca-PCB	750.00	3.89e+08	1.19	y	56:40	-	1.22
183	Mono	η	13C-PCB-1	100.00	1.51e+08	3.37	y	16:24	-	0.77
184	Mono	η	13C-PCB-3	100.00	1.63e+08	3.42	y	18:54	-	0.83
185	Di-IS		13C-PCB-4	100.00	1.12e+08	1.60	y	20:12	-	0.57
186	Di-IS		13C-PCB-9	100.00	1.73e+08	1.58	y	21:55	-	0.88
187	Di-IS		13C-PCB-11	100.00	1.84e+08	1.56	y	25:13	-	0.94
188	Tri-η		13C-PCB-19	100.00	9.33e+07	1.09	y	24:14	-	0.48
189	Tri-η		13C-PCB-32	100.00	1.45e+08	1.09	y	27:05	-	0.74
190	Tri-η		13C-PCB-28	100.00	1.37e+08	1.03	y	29:01	-	1.02
191	Tri-η		13C-PCB-37	100.00	1.25e+08	1.07	y	32:52	-	0.93
192	Tetrη		13C-PCB-54	100.00	1.30e+08	0.80	y	27:56	-	0.98
193	Tetrη		13C-PCB-52	100.00	9.99e+07	0.80	y	31:25	-	0.75
194	Tetrη		13C-PCB-47	100.00	1.04e+08	0.77	y	31:55	-	0.78
195	Tetrη		13C-PCB-70	100.00	1.35e+08	0.78	y	35:24	-	1.02
196	Tetrη		13C-PCB-80	100.00	1.39e+08	0.80	y	35:49	-	1.05
197	Tetrη		13C-PCB-81	100.00	1.30e+08	0.79	y	38:56	-	0.98
198	Tetrη		13C-PCB-77	100.00	1.29e+08	0.80	y	39:32	-	0.97
199	Pentη		13C-PCB-104	100.00	8.83e+07	1.59	y	32:34	-	0.96
200	Pentη		13C-PCB-95	100.00	6.79e+07	1.55	y	35:43	-	0.74
201	Pentη		13C-PCB-101	100.00	7.25e+07	1.55	y	37:23	-	0.79
202	Pentη		13C-PCB-97	100.00	6.44e+07	1.57	y	38:42	-	0.70
203	Pentη		13C-PCB-123	100.00	8.18e+07	1.58	y	41:16	-	0.89
204	Pentη		13C-PCB-118	100.00	9.11e+07	1.59	y	41:27	-	0.99
205	Pentη		13C-PCB-114	100.00	1.10e+08	1.61	y	42:06	-	1.45
206	Pentη		13C-PCB-105	100.00	1.10e+08	1.59	y	42:58	-	1.45
207	Pentη		13C-PCB-127	100.00	1.18e+08	1.61	y	43:18	-	1.54
208	Pentη		13C-PCB-126	100.00	1.02e+08	1.57	y	45:13	-	1.34
209	Hexaη		13C-PCB-155	100.00	7.27e+07	1.27	y	36:56	-	0.79
210	Hexaη		13C-PCB-153	100.00	8.79e+07	1.29	y	43:07	-	1.15
211	Hexaη		13C-PCB-141	100.00	8.18e+07	1.28	y	43:52	-	1.07
212	Hexa		13C-PCB-138	100.00	8.32e+07	1.27	y	44:43	-	1.09
213	Hexaη		13C-PCB-159	100.00	9.51e+07	1.28	y	45:59	-	1.25
214	Hexaη		13C-PCB-167	100.00	1.01e+08	1.26	y	46:41	-	1.33
215	Hexaη		13C-PCB-156	100.00	1.01e+08	1.27	y	47:59	-	1.32
216	Hexaη		13C-PCB-157	100.00	1.05e+08	1.31	y	48:15	-	1.38
217	Hexaη		13C-PCB-169	100.00	9.82e+07	1.28	y	50:20	-	1.29
218	Heptη		13C-PCB-188	100.00	6.91e+07	0.47	y	42:45	-	0.91
219	Heptη		13C-PCB-180	100.00	4.94e+07	0.48	y	49:16	-	0.65
220	Heptη		13C-PCB-170	100.00	3.94e+07	0.46	y	50:41	-	0.52
221	Heptη		13C-PCB-189	100.00	5.34e+07	0.46	y	52:08	-	0.70
222	Octaη		13C-PCB-202	100.00	5.91e+07	0.90	y	48:12	-	0.78

223	Octaη	13C-PCB-194	100.00	5.78e+07	0.93 y	53:39	-	0.79
224	Nonaη	13C-PCB-208	100.00	7.83e+07	0.77 y	52:54	-	1.07
225	Nonaη	13C-PCB-206	100.00	4.57e+07	0.77 y	55:21	-	0.62
226	Decaη	13C-PCB-209	100.00	4.25e+07	1.20 y	56:39	-	0.58
227	DI-RS	13C-PCB-15	100.00	1.96e+08	1.59 y	25:55	-	1.00
228	Tri-η	13C-PCB-31	100.00	1.34e+08	1.04 y	28:55	-	1.00
229	Tetraη	13C-PCB-60	100.00	1.33e+08	0.78 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	9.21e+07	1.57 y	39:07	-	1.00
231	Hexaη	13C-PCB-128	100.00	7.63e+07	1.27 y	46:17	-	1.00
232	Octaη	13C-PCB-205	100.00	7.35e+07	0.92 y	53:56	-	1.00

233	CRS	13C-PCB-79	100.00	1.38e+08	0.77 y	37:43	-	1.04
234	CRS	13C-PCB-178	100.00	4.43e+07	0.45 y	45:33	-	0.58
235	PS	13C-PCB-79	100.00	1.38e+08	0.77 y	37:43	-	1.06
236	PS	13C-PCB-178	100.00	4.43e+07	0.45 y	45:33	-	0.90

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	3.00	2.66-3.60	y	51.3	37.5-62.5	PCB-52/69	0.76	0.65-0.89	y	99.8	75.0-125
PCB-2	3.01	2.66-3.60	y	51.8	37.5-62.5	PCB-73	0.78	0.65-0.89	y	51.0	37.5-62.5
PCB-3	3.01	2.66-3.60	y	51.3	37.5-62.5	PCB-43/49	0.76	0.65-0.89	y	97.5	75.0-125
PCB-4/10	1.65	1.33-1.79	y	200.1	150-250	PCB-47	0.76	0.65-0.89	y	49.3	37.5-62.5
PCB-7/9	1.65	1.33-1.79	y	199.3	150-250	PCB-48/75	0.77	0.65-0.89	y	95.6	75.0-125
PCB-6	1.66	1.33-1.79	y	100.0	75.0-125	PCB-65	0.76	0.65-0.89	y	50.2	37.5-62.5
PCB-5/8	1.64	1.33-1.79	y	200.2	150-250	PCB-62	0.76	0.65-0.89	y	44.6	37.5-62.5
PCB-14	1.66	1.33-1.79	y	102.7	75.0-125	PCB-44	0.77	0.65-0.89	y	46.7	37.5-62.5
PCB-11	1.65	1.33-1.79	y	101.7	75.0-125	PCB-42/59	0.76	0.65-0.89	y	95.3	75.0-125
PCB-12/13	1.65	1.33-1.79	y	200.4	150-250	PCB-41/64/71/72	0.77	0.65-0.89	y	187.9	150-250
PCB-15	1.66	1.33-1.79	y	100.2	75.0-125	PCB-68	0.76	0.65-0.89	y	48.0	37.5-62.5
PCB-19	1.05	0.88-1.20	y	49.8	37.5-62.5	PCB-40	0.77	0.65-0.89	y	48.5	37.5-62.5
PCB-30	1.06	0.88-1.20	y	49.4	37.5-62.5	PCB-57	0.76	0.65-0.89	y	50.7	37.5-62.5
PCB-18	1.05	0.88-1.20	y	51.3	37.5-62.5	PCB-67	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-17	1.05	0.88-1.20	y	50.5	37.5-62.5	PCB-58	0.79	0.65-0.89	y	50.1	37.5-62.5
PCB-24/27	1.05	0.88-1.20	y	101.3	75.0-125	PCB-63	0.76	0.65-0.89	y	49.0	37.5-62.5
PCB-16/32	1.06	0.88-1.20	y	100.2	75.0-125	PCB-74	0.77	0.65-0.89	y	48.3	37.5-62.5
PCB-34	1.03	0.88-1.20	y	47.9	37.5-62.5	PCB-61/70	0.77	0.65-0.89	y	99.9	75.0-125
PCB-23	1.06	0.88-1.20	y	47.9	37.5-62.5	PCB-76/66	0.77	0.65-0.89	y	99.0	75.0-125
PCB-29	1.04	0.88-1.20	y	49.2	37.5-62.5	PCB-80	0.77	0.65-0.89	y	51.1	37.5-62.5
PCB-26	1.04	0.88-1.20	y	48.9	37.5-62.5	PCB-55	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-25	1.06	0.88-1.20	y	50.3	37.5-62.5	PCB-56/60	0.77	0.65-0.89	y	98.9	75.0-125
PCB-31	1.02	0.88-1.20	y	48.2	37.5-62.5	PCB-79	0.78	0.65-0.89	y	49.6	37.5-62.5
PCB-28	1.04	0.88-1.20	y	49.8	37.5-62.5	PCB-78	0.77	0.65-0.89	y	49.1	37.5-62.5
PCB-20/21/33	1.03	0.88-1.20	y	149.6	112.5-225	PCB-81	0.78	0.65-0.89	y	48.4	37.5-62.5
PCB-22	1.04	0.88-1.20	y	50.9	37.5-62.5	PCB-77	0.79	0.65-0.89	y	49.2	37.5-62.5
PCB-36	1.03	0.88-1.20	y	51.8	37.5-62.5	PCB-104	1.57	1.32-1.78	y	50.6	37.5-62.5
PCB-39	1.02	0.88-1.20	y	53.7	37.5-62.5	PCB-96	1.56	1.32-1.78	y	49.5	37.5-62.5
PCB-38	1.03	0.88-1.20	y	51.1	37.5-62.5	PCB-103	1.56	1.32-1.78	y	48.8	37.5-62.5
PCB-35	1.03	0.88-1.20	y	47.9	37.5-62.5	PCB-100	1.58	1.32-1.78	y	49.2	37.5-62.5
PCB-37	1.02	0.88-1.20	y	48.4	37.5-62.5	PCB-94	1.55	1.32-1.78	y	48.1	37.5-62.5
PCB-54	0.78	0.65-0.89	y	49.7	37.5-62.5	PCB-95/98/102	1.55	1.32-1.78	y	149.1	112.5-225
PCB-50	0.77	0.65-0.89	y	49.7	37.5-62.5	PCB-93	1.58	1.32-1.78	y	50.1	37.5-62.5
PCB-53	0.75	0.65-0.89	y	50.5	37.5-62.5	PCB-88/91	1.58	1.32-1.78	y	100.5	75.0-125
PCB-51	0.77	0.65-0.89	y	49.6	37.5-62.5	PCB-121	1.60	1.32-1.78	y	50.2	37.5-62.5
PCB-45	0.77	0.65-0.89	y	51.4	37.5-62.5						
PCB-46	0.76	0.65-0.89	y	49.3	37.5-62.5						

Analyst: *DMS*

Date: 6/24/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.56	1.32-1.78	y	99.2	75.0-125	PCB-140	1.27	1.05-1.43	y	48.3	37.5-62.5
PCB-89	1.58	1.32-1.78	y	50.3	37.5-62.5	PCB-134/143	1.25	1.05-1.43	y	97.1	75.0-125
PCB-90/101	1.56	1.32-1.78	y	100.3	75.0-125	PCB-133/142	1.24	1.05-1.43	y	97.4	75.0-125
PCB-113	1.57	1.32-1.78	y	52.7	37.5-62.5	PCB-131	1.23	1.05-1.43	y	49.1	37.5-62.5
PCB-99	1.60	1.32-1.78	y	47.7	37.5-62.5	PCB-146/165	1.25	1.05-1.43	y	98.5	75.0-125
PCB-119	1.56	1.32-1.78	y	49.8	37.5-62.5	PCB-132/161	1.31	1.05-1.43	y	98.0	75.0-125
PCB-108/112	1.58	1.32-1.78	y	100.2	75.0-125	PCB-153	1.16	1.05-1.43	y	49.2	37.5-62.5
PCB-83	1.57	1.32-1.78	y	49.2	37.5-62.5	PCB-168	1.25	1.05-1.43	y	50.1	37.5-62.5
PCB-97	1.55	1.32-1.78	y	49.4	37.5-62.5	PCB-141	1.24	1.05-1.43	y	48.7	37.5-62.5
PCB-86	1.55	1.32-1.78	y	47.3	37.5-62.5	PCB-137	1.23	1.05-1.43	y	49.3	37.5-62.5
PCB-87/117/125	1.62	1.32-1.78	y	153.7	112.5-225	PCB-130	1.23	1.05-1.43	y	50.2	37.5-62.5
PCB-111/115	1.51	1.32-1.78	y	98.7	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	147.8	112.5-225
PCB-85/116	1.58	1.32-1.78	y	100.6	75.0-125	PCB-158/160	1.23	1.05-1.43	y	99.9	75.0-125
PCB-120	1.59	1.32-1.78	y	48.7	37.5-62.5	PCB-129	1.24	1.05-1.43	y	49.1	37.5-62.5
PCB-110	1.57	1.32-1.78	y	50.0	37.5-62.5	PCB-166	1.24	1.05-1.43	y	49.5	37.5-62.5
PCB-82	1.55	1.32-1.78	y	49.8	37.5-62.5	PCB-159	1.23	1.05-1.43	y	49.9	37.5-62.5
PCB-124	1.58	1.32-1.78	y	48.7	37.5-62.5	PCB-128/162	1.23	1.05-1.43	y	97.4	75.0-125
PCB-107/109	1.59	1.32-1.78	y	102.0	75.0-125	PCB-167	1.22	1.05-1.43	y	50.2	37.5-62.5
PCB-123	1.59	1.32-1.78	y	50.6	37.5-62.5	PCB-156	1.25	1.05-1.43	y	50.3	37.5-62.5
PCB-106/118	1.59	1.32-1.78	y	100.2	75.0-125	PCB-157	1.24	1.05-1.43	y	48.4	37.5-62.5
PCB-114	1.65	1.32-1.78	y	50.6	37.5-62.5	PCB-169	1.27	1.05-1.43	y	48.4	37.5-62.5
PCB-122	1.66	1.32-1.78	y	49.6	37.5-62.5	PCB-188	1.05	0.89-1.21	y	49.3	37.5-62.5
PCB-105	1.64	1.32-1.78	y	49.4	37.5-62.5	PCB-184	1.06	0.89-1.21	y	49.1	37.5-62.5
PCB-127	1.67	1.32-1.78	y	47.6	37.5-62.5	PCB-179	1.06	0.89-1.21	y	49.7	37.5-62.5
PCB-126	1.63	1.32-1.78	y	49.7	37.5-62.5	PCB-176	1.04	0.89-1.21	y	49.5	37.5-62.5
PCB-155	1.27	1.05-1.43	y	49.7	37.5-62.5	PCB-186	1.05	0.89-1.21	y	49.8	37.5-62.5
PCB-150	1.29	1.05-1.43	y	50.1	37.5-62.5	PCB-178	1.05	0.89-1.21	y	49.4	37.5-62.5
PCB-152	1.30	1.05-1.43	y	49.4	37.5-62.5	PCB-175	1.05	0.89-1.21	y	49.6	37.5-62.5
PCB-145	1.28	1.05-1.43	y	49.5	37.5-62.5	PCB-182/187	1.05	0.89-1.21	y	96.9	75.0-125
PCB-136	1.29	1.05-1.43	y	49.0	37.5-62.5	PCB-183	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-148	1.30	1.05-1.43	y	49.6	37.5-62.5	PCB-185	1.07	0.89-1.21	y	49.3	37.5-62.5
PCB-154	1.28	1.05-1.43	y	48.4	37.5-62.5	PCB-174	1.02	0.89-1.21	y	51.7	37.5-62.5
PCB-151	1.29	1.05-1.43	y	47.9	37.5-62.5	PCB-181	1.06	0.89-1.21	y	49.2	37.5-62.5
PCB-135	1.26	1.05-1.43	y	48.7	37.5-62.5	PCB-177	1.05	0.89-1.21	y	50.0	37.5-62.5
PCB-144	1.30	1.05-1.43	y	46.6	37.5-62.5	PCB-171	1.07	0.89-1.21	y	50.3	37.5-62.5
PCB-147	1.30	1.05-1.43	y	48.2	37.5-62.5	PCB-173	1.04	0.89-1.21	y	50.8	37.5-62.5
PCB-139/149	1.28	1.05-1.43	y	96.8	75.0-125	PCB-172	1.07	0.89-1.21	y	50.2	37.5-62.5

Analyst: *Dms*

Date: *6/24/14*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION	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. FOUND	CONC. RANGE (ng/mL)	LABELED IS	ION			CONC. FOUND	CONC. RANGE (ng/mL)
	ABUND. RATIO	QC LIMITS	PASS				ABUND. RATIO	QC LIMITS	PASS		
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-188	4.99e+07	1.05	y	1.58	42:46	1.001	0.996-1.006	49.3061
PCB-105	5.88e+07	1.64	y	1.30	42:59	1.000	0.995-1.005	49.4039	PCB-184	5.13e+07	1.06	y	1.63	43:13	1.011	1.006-1.016	49.1029
PCB-127	6.36e+07	1.67	y	1.33	43:19	1.001	0.996-1.006	47.5787	PCB-179	4.15e+07	1.06	y	1.30	44:00	1.029	1.024-1.034	49.7059
PCB-126	5.32e+07	1.63	y	1.18	45:13	1.000	0.995-1.005	49.7195	PCB-176	4.68e+07	1.04	y	1.48	44:28	1.040	1.035-1.045	49.4886
PCB-155	3.92e+07	1.27	y	1.11	36:57	1.001	0.966-1.006	49.6608	PCB-186	4.64e+07	1.05	y	1.45	45:05	1.055	1.050-1.060	49.8177
PCB-150	3.54e+07	1.29	y	1.00	38:13	1.035	1.030-1.040	50.0537	PCB-178	3.27e+07	1.05	y	1.03	45:34	1.066	1.061-1.071	49.3595
PCB-152	3.90e+07	1.30	y	1.12	38:42	1.048	1.043-1.053	49.3510	PCB-175	3.22e+07	1.05	y	1.01	45:55	1.074	1.069-1.079	49.6213
PCB-145	4.21e+07	1.28	y	1.20	39:08	1.060	1.055-1.065	49.5203	PCB-182/187	7.77e+07	1.05	y	1.25	46:05	1.078	1.073-1.083	96.9439
PCB-136	4.09e+07	1.29	y	1.18	39:28	1.069	1.064-1.074	48.9891	PCB-183	3.68e+07	1.05	y	1.21	46:24	1.086	1.081-1.091	47.6012
PCB-148	2.62e+07	1.30	y	0.74	39:33	1.071	1.066-1.076	49.6483	PCB-185	4.12e+07	1.07	y	1.80	47:04	0.956	0.951-0.961	49.3457
PCB-154	2.94e+07	1.28	y	0.86	40:03	1.085	1.080-1.090	48.3589	PCB-174	3.30e+07	1.02	y	1.38	47:26	0.963	0.958-0.968	51.6599
PCB-151	2.53e+07	1.29	y	0.75	40:42	1.102	1.097-1.107	47.8747	PCB-181	3.14e+07	1.06	y	1.38	47:33	0.965	0.960-0.970	49.1713
PCB-135	2.73e+07	1.26	y	0.79	40:55	1.108	1.103-1.113	48.6888	PCB-177	2.91e+07	1.05	y	1.26	47:42	0.968	0.963-0.973	50.0451
PCB-144	2.52e+07	1.30	y	0.76	41:02	1.111	1.105-1.117	46.6300	PCB-171	3.69e+07	1.07	y	1.58	48:00	0.975	0.970-0.980	50.3499
PCB-147	2.80e+07	1.30	y	0.82	41:09	1.115	1.109-1.121	48.1949	PCB-173	2.61e+07	1.04	y	1.11	48:26	0.983	0.978-0.988	50.8218
PCB-139/149	5.22e+07	1.28	y	0.76	41:25	1.122	1.116-1.128	96.7904	PCB-172	3.80e+07	1.07	y	1.63	48:53	0.992	0.987-0.997	50.2115
- PCB-140	2.47e+07	1.27	y	0.72	41:36	1.127	1.121-1.133	48.2707	PCB-192	4.11e+07	1.06	y	1.74	49:04	0.996	0.991-1.001	51.0155
- PCB-134/143	7.05e+07	1.25	y	0.92	42:02	0.975	0.970-0.980	97.1084	PCB-180	3.12e+07	1.05	y	1.34	49:17	1.000	0.995-1.005	50.1142

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *DMS*

Date: *6/24/14*

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000
ConCal: NA EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RT	RRF	Conc	
PCB-193	3.98e+07	1.07 y	1.72	49:27	1.004	0.999-1.009		50.0826	Total Mono-PCB	3.01e+08	3.00 y	16:25	1.27	154.481	
PCB-191	3.90e+07	1.07 y	1.69	49:42	1.009	1.004-1.014		49.6416	Total Di-PCB	2.26e+09	1.65 y	20:14	1.21	1208.89	
PCB-170	2.97e+07	1.05 y	1.60	50:41	1.000	0.995-1.005		50.7863	Total Tri-PCB	5.48e+08	1.05 y	24:15	1.10	402.442	
PCB-190	4.08e+07	1.06 y	2.21	50:51	1.003	0.998-1.008		50.4671	Total Tri-PCB	1.30e+09	1.03 y	27:52	1.21	807.063	Sum:1209.50
PCB-189	3.71e+07	1.05 y	1.55	52:08	1.000	0.995-1.005		50.0142	Total Tetra-PCB	2.49e+09	0.78 y	27:57	1.09	2080.43	
									Total Penta-PCB	1.69e+09	1.57 y	32:35	1.18	2047.61	
PCB-202	3.01e+07	0.94 y	1.08	48:12	1.000	0.995-1.005		49.1569	Total Penta-PCB	3.13e+08	1.65 y	42:07	1.25	268.155	Sum:2315.77
PCB-201	3.19e+07	0.91 y	1.15	48:41	1.010	1.005-1.015		49.1361	Total Hexa-PCB	4.35e+08	1.27 y	36:57	0.90	682.032	
PCB-204	3.22e+07	0.91 y	1.14	48:50	1.014	1.008-1.018		50.0554	Total Hexa-PCB	1.26e+09	1.25 y	42:02	1.11	1398.33	Sum:2080.36
PCB-197	3.03e+07	0.91 y	1.07	49:09	1.020	1.015-1.025		49.8625	Total Hepta-PCB	9.18e+08	1.05 y	42:46	1.42	1205.33	
PCB-200	3.01e+07	0.90 y	1.06	49:59	1.037	1.032-1.044		50.0631	Total Octa-PCB	2.43e+08	0.94 y	48:12	0.96	447.388	
PCB-198	2.18e+07	0.92 y	0.76	51:15	1.064	1.059-1.069		51.1487	Total Octa-PCB	1.04e+08	0.89 y	52:45	1.33	151.653	Sum:599.041
PCB-199	2.16e+07	0.91 y	0.80	51:21	1.066	1.061-1.071		47.8578	Total Nona-PCB	9.23e+07	1.34 y	52:53	1.01	150.101	
- PCB-196/203	4.53e+07	0.92 y	0.80	51:37	1.071	1.066-1.076		100.108	Total Deca-PCB	2.30e+07	1.21 y	56:38	1.17	51.1001	
- PCB-195	3.20e+07	0.89 y	1.23	52:45	0.984	0.979-0.989		50.6536							
PCB-194	3.08e+07	0.92 y	1.21	53:37	1.000	0.995-1.005		49.2456							
PCB-205	3.93e+07	0.92 y	1.54	53:55	1.006	1.001-1.011		49.3837							Total PCB Conc:10960.1670500
PCB-208	3.24e+07	1.34 y	0.93	52:53	1.000	0.995-1.005		49.6730							
PCB-207	3.78e+07	1.32 y	1.08	53:12	1.006	1.001-1.011		49.8284							
PCB-206	2.13e+07	1.36 y	1.02	55:20	1.000	0.995-1.005		49.3149							
PCB-209	2.30e+07	1.21 y	1.17	56:38	1.000	0.995-1.005		51.1001							

Integrations
by
Analyst: DMS
Date: 6/24/14
RL: MONO, TRI - DECA: _____

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.53e+08	3.37	y	0.87	16:24	0.632	0.629-0.635	98.7	98.7											
13C-PCB-3	1.54e+08	3.41	y	0.91	18:54	0.729	0.725-0.733	94.8	94.8		13C-PCB-79	1.25e+08	0.79	y	1.02	37:42	1.028	1.023-1.034	98.3	98.3
13C-PCB-4	1.04e+08	1.58	y	0.59	20:11	0.779	0.775-0.783	99.7	99.7		13C-PCB-178	4.30e+07	0.46	y	0.61	45:33	0.984	0.979-0.990	101	101
13C-PCB-9	1.59e+08	1.59	y	0.90	21:55	0.846	0.842-0.850	99.2	99.2											
13C-PCB-11	1.64e+08	1.57	y	0.94	25:13	0.973	0.968-0.978	98.2	98.2											
13C-PCB-19	9.46e+07	1.07	y	0.53	24:14	0.935	0.930-0.940	99.8	99.8											
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
140623E2	15	SOLVENT BLANK	DMS	24-JUN-14	02:36:47	NA	NA

Attachment S-5
Ecology Inspection Report



MUNICIPAL STORMWATER INSPECTION REPORT

State of Washington Department of Ecology
3190 – 160th Avenue SE, Bellevue, WA 98008-5452

Municipal Stormwater
Inspection Form

Phone: (425) 649-7000
FAX: (425) 649-7098

Section A: General Data

Inspection Date 12/11/14	NPDES Permit # WAR044503	County King	Receiving Waters Duwamish River	Inspector(s) Rachel McCrean	Facility Type Municipal
Discharges to: Surface Water <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/>				Announced (<24 hours) Inspection	

Section B: Facility Data

Name and Location of Site Inspected		Entry Time	Permit Effective Date									
Seattle City Light South Service Center*		8:30 a.m.	8/1/2013									
400 S Spokane Street Seattle, WA 98134	*Excluding on-site substation	Exit Time	Permit Expiration Date									
		4:00 p.m.	7/31/2018									
Permittee Contact(s)		Additional Participants:										
Gary Lockwood, Seattle City Light, NPDES Coordinator Echo Tremoglio, Seattle City Light, Sr. Environmental Analyst Kate Rhoads, Seattle Public Utilities, Municipal Stormwater Specialist Beth Schmoyer, Seattle Public Utilities, Duwamish Source Control Joe Silvernale, Seattle City Light, South Service Center, Crew Chief (on-site contact) Jose and Joe, Seattle City Light, South Service Center, on-site employees		Bob Wright – Ecology Mahbub Alam – Ecology Alex White – Ecology Christine Nancarrow – Leidos Melissa Ivancevich – Leidos Corey Wilson – Leidos										
Responsible Official(s):												
Nancy Ahern, Director Utility System Management Branch Seattle Public Utilities PO Box 34018 Seattle, WA 98124-4018		<table border="0"> <tr> <td></td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Samples Taken?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Photos Taken?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>			Yes	No	Samples Taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Photos Taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Yes	No										
Samples Taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Photos Taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>										

Section C: Summary of Findings/Comments

BACKGROUND

This inspection with sampling occurred as part of Ecology's efforts to control sources of pollutants to the Lower Duwamish Waterway Superfund cleanup site. Refer to Ecology Publication Number 14-09-263 for additional background. The purpose of the sampling is to evaluate pollutants present in the stormwater system on the site. Stormwater from the site flows to the Duwamish/Diagonal municipal stormwater conveyance system which discharges to the Duwamish Waterway. Results from the sampling will be available several months following the date of inspection and sampling. A report documenting the specific locations and site conditions related to sample collection will be available at that time. Ecology will provide the sampling results to the City of Seattle when they become available. City of Seattle (City) representatives observed sample collection procedures and obtained split samples for their use.

The purposes of the inspection were to document on-site conditions and activities and evaluate compliance with the Phase I Municipal Stormwater Permit issued to the City of Seattle, as applicable to the Seattle City Light (SCL) South Service Center. Note that the on-site substation was not accessed nor inspected.

The South Service Center is required to implement a Stormwater Pollution Prevention Plan (SWPPP) per Special Condition S5.C.9.g of Phase I Municipal Stormwater Permit No. WAR044503; the City has identified it as meeting the definition of a "heavy equipment maintenance or storage yard" and/or "material storage facility" (permit definitions excerpted below).

- "Heavy equipment maintenance or storage yard" means an uncovered area where any heavy equipment, such as mowing equipment, excavators, dump trucks, backhoes, or bulldozers are washed or maintained, or where at least five pieces of heavy equipment are stored on a long term basis.
- "Material Storage Facilities" means an uncovered area where bulk materials (liquid, solid, granular, etc.) are stored in piles, barrels, tanks, bins, crates, or other means.

INSPECTION/OBSERVATIONS

The following observations are organized by on-site activity area as referenced on the "Existing Yard Building & Surface Drainage Plan" and as verbally referenced during the inspection.

Decant Facility – The brand new decant facility looked great, but as with all new facilities, it will take some time to work out the details. Decant materials are segregated into hydro (material excavated using the hydro equipment) and vault (material removed from utility vaults) solids. Liquid waste receives advanced treatment (carbon filtration) and discharges to the sanitary sewer under King County Major Wastewater Discharge Authorization No. 4194-01. The concrete facility pad is covered and drains to sanitary. Solids (dried) are loaded from inside the facility to metal bins located outside the facility (on asphalt that drains to storm). Rain will wash any materials spilled during this transfer activity into the storm drain system. Ensure BMPs are in place to address spillage, operations during rainfall, and include in SWPPP.

Bone Yard (SW area of site) – This is a storage area for large transformers on pallets that are intact and will be used for parts/as needed. Transformers are labeled as being < 1 ppm or < 50 ppm PCBs. Area receives an undocumented daily walkthrough check.

PCB Building and Related Activities – The PCB Building is used to dismantle old/broken transformers. Roof downspouts are tightlined to the stormwater system. Unknown whether roof venting occurs; exterior vent visible at top of southern and northern walls. Inside the building, PCB-containing oils are drained and segregated into 2 tanks (< 1 ppm or < 50 ppm PCBs). Both before and after service in the PCB Building, old/broken transformers are stored on pallets along the north side of building. Two catch basins serve this storage area. Old/broken large transformers are stored for months until they can be processed (e.g., parts/materials salvage, including fluid draining) inside the PCB building and then, following processing, until there is sufficient quantity to make recycling pick up cost effective. Visible oil sheen and oil stains were present, exposed to rain. The on-site contact indicated these conditions were typical and that no particular action would normally be taken given observed conditions (e.g., the spill kit is deployed when the spill itself is flowing). The on-site contact further explained that the large transformer present at the bay door of the PCB Building had been located outside in this storage area on the north side of the building until the day before the inspection, when it had been observed to be leaking and moved into the PCB Building for draining. He explained that the visible oil stains on the pavement (refer to photo 14 attached) were likely from that transformer (refer to photo 11 for PCB content information). The SWPPP provides no specificity regarding stormwater pollution prevention BMPs identified for this area, although page 19 of the SWPPP states "Leaks and spills of solid and liquid pollutants... must be promptly contained and cleaned up." Additionally, the SWPPP states that "general practices should be employed to reduce the potential for spills" including "Place drip pans underneath all containers fittings, valves, where materials are likely to spill or leak."

Scrap Yard – Bulk storage of scrap metal, electronic parts and other materials exposed to stormwater. Some bins had lids, others did not. Some materials were covered with tarps, others were not. Pollution generating materials need BMPs to prevent exposure to stormwater. Page 19 of the site's SWPPP states that "Solid wastes must be stored in suitable containers with leak-proof lids (where appropriate) that are closed at all times..."

Material/Product Storage – New products are stored in open shelving in this fenced area. No observable stormwater BMPs in place. Pollution generating products (i.e., galvanized metals, treated wood) need BMPs to prevent exposure to stormwater.

Vegetation Crew Storage Area (south of facility outside of fence in city street end) – Product storage (construction materials), vehicle/equipment parking and equipment servicing occur in this area. Area not included in facility SWPPP.

Bulk Products Storage (unpaved lot located across 4th Avenue) – Bulk storage of materials occurs in this area. According to SCL representatives, this unpaved lot has no formal on-site drainage system but drains to right-of-way. Area not included in facility SWPPP.

Sampling of Stormwater System Solids and Water – Ecology's contractor (Leidos), at the direction of Ecology, collected three storm drain solids samples (two from catch basins and one from an oil water separator) and one water sample (manhole before the same oil water separator). Ecology will perform laboratory analysis for a suite of parameters, including the chemicals of concern for the Duwamish Waterway Superfund cleanup site.

Section D: Compliance/Recommendations

1. Ensure site-specific BMPs are implemented and documented in the SWPPP to prevent and/or minimize stormwater pollution. While the Phase I Municipal Stormwater Permit allows "generic SWPPPs that can be applied at multiple sites" (Special Condition S5.C.9.g), activities on this site necessitate site-specific and area-specific BMPs to prevent and/or minimize stormwater pollution. Also consider including tools (such as checklists and forms) to assist with documentation of BMP-related activities and/or inspections.
2. This site handles PCB-containing products and materials. Ensure site-specific and area-specific BMPs are implemented and documented in the SWPPP to address chemicals of concern in the Lower Duwamish Waterway in-waterway cleanup, particularly PCBs. Petroleum staining and visible sheen in the area where PCB containing transformers were stored while waiting for decommissioning indicates a need for improved source control measures. Oil staining and petroleum sheens in this area are expected to contain PCBs. Consider structural BMPs (such as catch basin filtration inserts) in addition operational BMPs (such as drip trays) to prevent PCB-containing materials from getting into the stormwater system.
3. Ensure the SWPPP is complete and accurate (page 2 of the SWPPP indicates that BMPs to be implemented are described in Section 8, but Section 8 discusses water quality treatment BMPs for new and redevelopment projects).
4. Ensure the SWPPP addresses all areas associated with this facility which discharge or have the potential to discharge to the municipal separated stormwater system, including the street-end area outside the fence at the south end of the facility used by the vegetation crew for storage and the unpaved lot across 4th Avenue where bulk materials are stored outside.
5. The Phase I Municipal Stormwater Permit requires "periodic visual observation of discharges from the facility to evaluate the effectiveness of BMPs" (Special Condition S5.C.9.g). Ensure procedures for such observations at each discharge location from the facility, including all associated areas, are described in the SWPPP, conducted and documented.
6. The Phase I Municipal Stormwater Permit requires notification of any stormwater monitoring or stormwater-related studies that occurred over the previous calendar year (Appendix 12 Annual Report question 72, Special Condition S8.A). In upcoming annual report(s), describe any analysis of the City's split samples from the 12/11/14 inspection.

For questions related to this report or any technical assistance please contact Rachel McCrea at: (425) 649-7223 or rmcc461@ecy.wa.gov.

The Department of Ecology has the authority to issue formal enforcement actions including issuance of orders and civil penalties of up to \$10,000 per day per violation for violations of an NPDES permit and/or state laws and regulations.

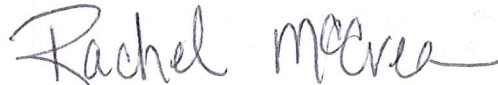

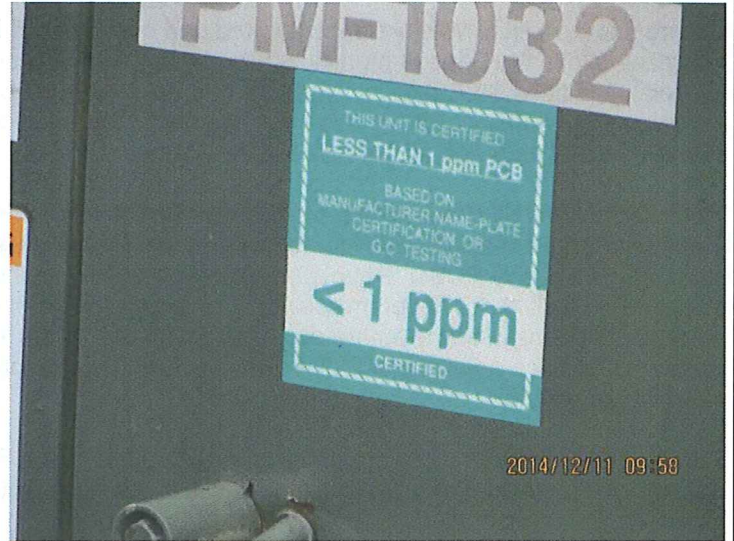
	Reviewed and approved by: 
Rachel McCrea Lead Water Quality Planner for the Lower Duwamish & Municipal Stormwater Specialist Water Quality Program	Raman Iyer Compliance & Technical Assistance Unit Supervisor Water Quality Program

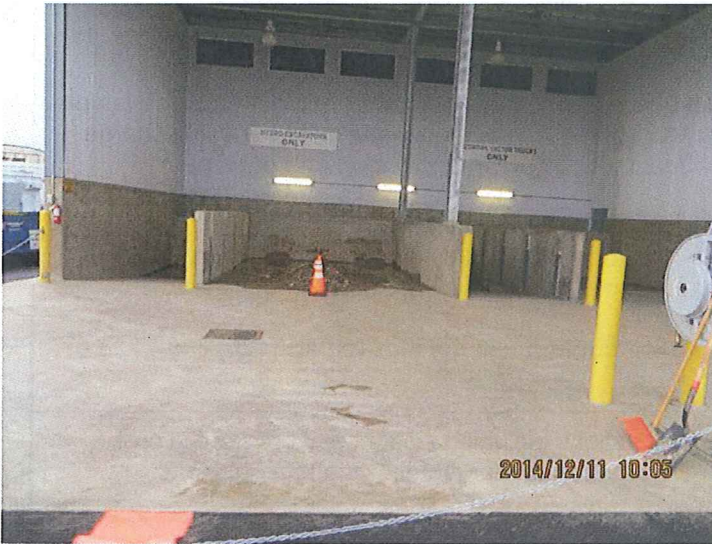
PHOTO LOG - SEATTLE CITY LIGHT SOUTH SERVICE CENTER



01 DESCRIPTION: "BONE YARD" AREA



02 DESCRIPTION: TRANSFORMER PCB CONTENT LABEL



03 DESCRIPTION: DECANT FACILITY BAYS



04 DESCRIPTION: DECANT SOLIDS LOADED FROM CONCRETE DRYING AREA (SANITARY) TO BLUE STORAGE BIN ON ASPHALT (STORM).



12/11/2014 11:13

05 DESCRIPTION: SCRAP YARD AREA (NORTH SIDE)



12/11/2014 11:10

06 DESCRIPTION: COATED & UNCOATED METAL IN UNCOVERED BINS EXPOSED TO STORMWATER.



2014/12/11 11:08

07 DESCRIPTION: SCRAP YARD AREA (SOUTH SIDE)



2014/12/11 11:04

08 DESCRIPTION: CATCH BASIN IN SCRAP YARD. SHEEN.



2014/12/11 11:14

09 DESCRIPTION: PCB BUILDING (SW CORNER). BAY DOOR VISIBLE IN BLUE.

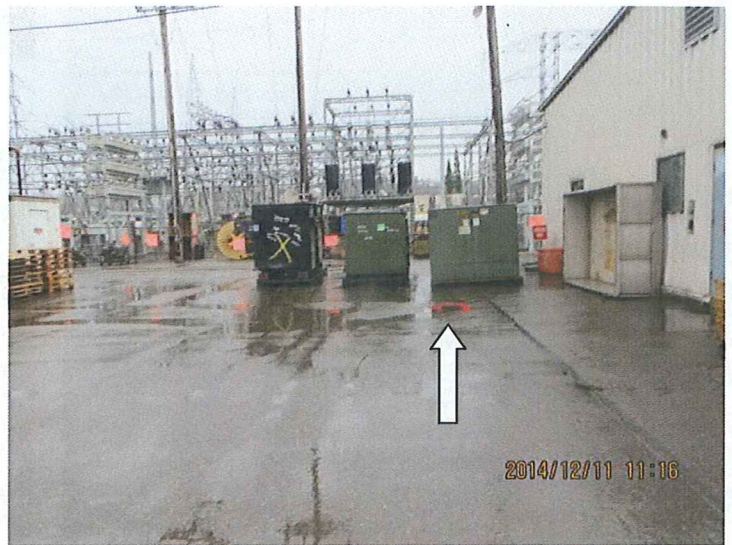


2014/12/11 11:19

10 DESCRIPTION: OLD TRANSFORMER IN PCB BUILDING BAY DOOR



11 **DESCRIPTION:** CLOSE UP OF OLD TRANSFORMER FROM PHOTO 10 SHOWING PCB CONTENT OF COMPONENTS (6.1 PPM, 24.4 PPM)



12 **DESCRIPTION:** NORTH SIDE OF PCB BUILDING (ON RIGHT). TRANSFORMER STORAGE. RED PAINT/ARROW SHOWS CATCH BASIN LOCATION.



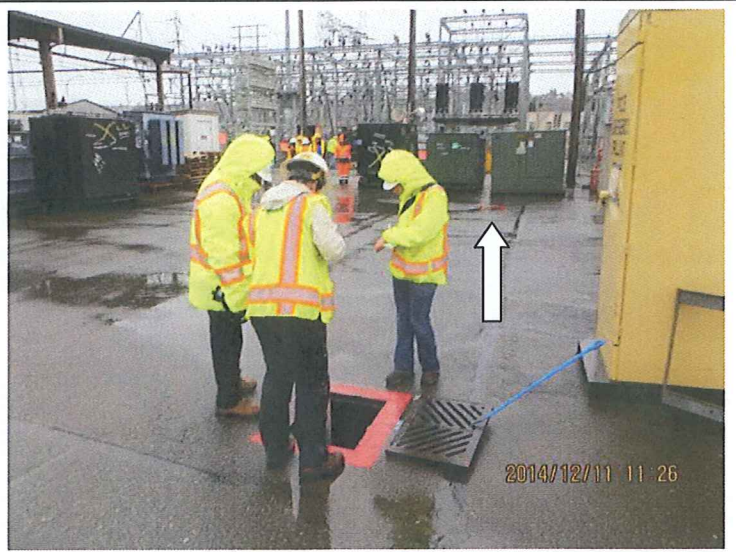
13 **DESCRIPTION:** NORTH SIDE OF PCB BUILDING, LOOKING SOUTH BETWEEN STORED TRANSFORMERS (SAME AS IN PHOTO 12). SHEEN AND OIL STAINS.



14 **DESCRIPTION:** CLOSE UP OF OIL STAINS AND SHEEN IN TRANSFORMER STORAGE AREA (SAME AS IN PHOTO 13).



15 DESCRIPTION: CLOSE UP OF SHEEN FROM TRANSFORMERS IN PHOTO 13. FLOWING WESTWARD TOWARD CATCH BASIN VISIBLE IN PHOTO 12.



16 DESCRIPTION: PREPARING FOR SAMPLING AT NORTH SIDE OF PCB BUILDING. BACKGROUND CATCH BASIN (ARROW; ALSO IN PHOTO 12) FLOWS TO CATCH BASIN IN FOREGROUND.



17 DESCRIPTION: PCB SPILL KIT (TYPICAL)



18 DESCRIPTION: MATERIAL/PRODUCT STORAGE AREA

Attachment S-6
Split Sample Results



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 24, 2014

Gary Lockwood
Seattle City Light
3613 4th Avenue S.
Seattle, WA 98134

Re: Analytical Data for Project SW Inspection
Laboratory Reference No. 1412-140

Dear Gary:

Enclosed are the analytical results and associated quality control data for samples submitted on December 12, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

Case Narrative

Samples were collected on December 11, 2014 and received by the laboratory on December 12, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx Analysis

Per EPA Method 5035A, some of the samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis. The remaining samples were received by the laboratory in pre-weighed 40 mL VOA vials and were preserved with either Methanol or Sodium Bisulfate.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, some of the samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis. The remaining samples were received by the laboratory in pre-weighed 40 mL VOA vials and were preserved with either Methanol or Sodium Bisulfate.

Some MTCA Method A cleanup levels are non-achievable for samples SC-CB-35-20141211-S and SC-CB-24-20141211-S due to sample matrix effects.

Surrogate Standard 4-Bromofluorobenzene is outside control limits for sample SC-CB-35-20141211-S due to sample matrix effects.

The value reported for Acetone in sample SC-CB-24-20141211-S exceeds the quantitation range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

Semivolatiles EPA 8270D/SIM Analysis

Sample SC-OWS-05-20141211-S had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**PCBs
 EPA 8082A**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-OWS-05-20141211-S					
Laboratory ID:	12-140-01					
Aroclor 1016	ND	0.16	EPA 8082A	12-22-14	12-22-14	
Aroclor 1221	ND	0.16	EPA 8082A	12-22-14	12-22-14	
Aroclor 1232	ND	0.16	EPA 8082A	12-22-14	12-22-14	
Aroclor 1242	1.2	0.16	EPA 8082A	12-22-14	12-22-14	
Aroclor 1248	ND	0.16	EPA 8082A	12-22-14	12-22-14	
Aroclor 1254	3.7	0.16	EPA 8082A	12-22-14	12-22-14	
Aroclor 1260	1.7	0.16	EPA 8082A	12-22-14	12-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>72</i>	<i>55-140</i>				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1222S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-22-14	12-22-14	
Aroclor 1221	ND	0.050	EPA 8082A	12-22-14	12-22-14	
Aroclor 1232	ND	0.050	EPA 8082A	12-22-14	12-22-14	
Aroclor 1242	ND	0.050	EPA 8082A	12-22-14	12-22-14	
Aroclor 1248	ND	0.050	EPA 8082A	12-22-14	12-22-14	
Aroclor 1254	ND	0.050	EPA 8082A	12-22-14	12-22-14	
Aroclor 1260	ND	0.050	EPA 8082A	12-22-14	12-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>DCB</i>	78		55-140			

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-225-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.497	0.498	0.500	0.500	ND	99	100	46-136	0	17	
<i>Surrogate:</i>											
<i>DCB</i>						80	82	55-140			

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**PCBs
 EPA 8082A**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
Aroclor 1016	ND	0.088	EPA 8082A	12-17-14	12-18-14	
Aroclor 1221	ND	0.088	EPA 8082A	12-17-14	12-18-14	
Aroclor 1232	ND	0.088	EPA 8082A	12-17-14	12-18-14	
Aroclor 1242	ND	0.088	EPA 8082A	12-17-14	12-18-14	
Aroclor 1248	ND	0.088	EPA 8082A	12-17-14	12-18-14	
Aroclor 1254	0.41	0.088	EPA 8082A	12-17-14	12-18-14	
Aroclor 1260	0.23	0.088	EPA 8082A	12-17-14	12-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	94	55-140				
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
Aroclor 1016	ND	0.10	EPA 8082A	12-17-14	12-18-14	
Aroclor 1221	ND	0.10	EPA 8082A	12-17-14	12-18-14	
Aroclor 1232	ND	0.10	EPA 8082A	12-17-14	12-18-14	
Aroclor 1242	ND	0.10	EPA 8082A	12-17-14	12-18-14	
Aroclor 1248	ND	0.10	EPA 8082A	12-17-14	12-18-14	
Aroclor 1254	0.99	0.10	EPA 8082A	12-17-14	12-18-14	
Aroclor 1260	0.27	0.10	EPA 8082A	12-17-14	12-18-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	99	55-140				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-17-14	12-17-14	
Aroclor 1221	ND	0.050	EPA 8082A	12-17-14	12-17-14	
Aroclor 1232	ND	0.050	EPA 8082A	12-17-14	12-17-14	
Aroclor 1242	ND	0.050	EPA 8082A	12-17-14	12-17-14	
Aroclor 1248	ND	0.050	EPA 8082A	12-17-14	12-17-14	
Aroclor 1254	ND	0.050	EPA 8082A	12-17-14	12-17-14	
Aroclor 1260	ND	0.050	EPA 8082A	12-17-14	12-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	103		55-140			

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-114-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.412	0.438	0.500	0.500	ND	82	88	46-136	6	17	
<i>Surrogate:</i>											
DCB						86	89	55-140			

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
 page 1 of 2

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-OWS-05-20141211-S					
Laboratory ID:	12-140-01					
n-Nitrosodimethylamine	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Pyridine	ND	11	EPA 8270D	12-22-14	12-22-14	
Phenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Aniline	ND	5.3	EPA 8270D	12-22-14	12-22-14	
bis(2-Chloroethyl)ether	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2-Chlorophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,3-Dichlorobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,4-Dichlorobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Benzyl alcohol	ND	5.3	EPA 8270D	12-22-14	12-22-14	
1,2-Dichlorobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2-Methylphenol (o-Cresol)	ND	1.1	EPA 8270D	12-22-14	12-22-14	
bis(2-Chloroisopropyl)ether	ND	1.1	EPA 8270D	12-22-14	12-22-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.1	EPA 8270D	12-22-14	12-22-14	
n-Nitroso-di-n-propylamine	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Hexachloroethane	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Nitrobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Isophorone	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2-Nitrophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,4-Dimethylphenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
bis(2-Chloroethoxy)methane	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,4-Dichlorophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,2,4-Trichlorobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Naphthalene	ND	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
4-Chloroaniline	ND	5.3	EPA 8270D	12-22-14	12-22-14	
Hexachlorobutadiene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
4-Chloro-3-methylphenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2-Methylnaphthalene	ND	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
1-Methylnaphthalene	ND	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Hexachlorocyclopentadiene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,4,6-Trichlorophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,3-Dichloroaniline	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,4,5-Trichlorophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2-Chloronaphthalene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2-Nitroaniline	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,4-Dinitrobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Dimethylphthalate	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,3-Dinitrobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,6-Dinitrotoluene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,2-Dinitrobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Acenaphthylene	ND	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
3-Nitroaniline	ND	1.1	EPA 8270D	12-22-14	12-22-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-OWS-05-20141211-S					
Laboratory ID:	12-140-01					
2,4-Dinitrophenol	ND	5.3	EPA 8270D	12-22-14	12-22-14	
Acenaphthene	ND	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
4-Nitrophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,4-Dinitrotoluene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Dibenzofuran	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
2,3,4,6-Tetrachlorophenol	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Diethylphthalate	ND	5.3	EPA 8270D	12-22-14	12-22-14	
4-Chlorophenyl-phenylether	ND	1.1	EPA 8270D	12-22-14	12-22-14	
4-Nitroaniline	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Fluorene	0.27	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
4,6-Dinitro-2-methylphenol	ND	5.3	EPA 8270D	12-22-14	12-22-14	
n-Nitrosodiphenylamine	ND	1.1	EPA 8270D	12-22-14	12-22-14	
1,2-Diphenylhydrazine	ND	1.1	EPA 8270D	12-22-14	12-22-14	
4-Bromophenyl-phenylether	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Hexachlorobenzene	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Pentachlorophenol	ND	5.3	EPA 8270D	12-22-14	12-22-14	
Phenanthrene	1.5	1.1	EPA 8270D	12-22-14	12-22-14	
Anthracene	0.47	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Carbazole	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Di-n-butylphthalate	1.1	1.1	EPA 8270D	12-22-14	12-22-14	
Fluoranthene	2.2	1.1	EPA 8270D	12-22-14	12-22-14	
Benzidine	ND	11	EPA 8270D	12-22-14	12-22-14	
Pyrene	2.4	1.1	EPA 8270D	12-22-14	12-22-14	
Butylbenzylphthalate	ND	1.1	EPA 8270D	12-22-14	12-22-14	
bis-2-Ethylhexyladipate	ND	1.1	EPA 8270D	12-22-14	12-22-14	
3,3'-Dichlorobenzidine	ND	5.3	EPA 8270D	12-22-14	12-22-14	
Benzo[a]anthracene	1.0	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Chrysene	2.0	1.1	EPA 8270D	12-22-14	12-22-14	
bis(2-Ethylhexyl)phthalate	46	1.1	EPA 8270D	12-22-14	12-22-14	
Di-n-octylphthalate	ND	1.1	EPA 8270D	12-22-14	12-22-14	
Benzo[b]fluoranthene	1.3	1.1	EPA 8270D	12-22-14	12-22-14	
Benzo(j,k)fluoranthene	0.70	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Benzo[a]pyrene	0.87	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Indeno[1,2,3-cd]pyrene	0.63	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Dibenz[a,h]anthracene	0.31	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
Benzo[g,h,i]perylene	1.0	0.21	EPA 8270D/SIM	12-22-14	12-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>41</i>	<i>31 - 110</i>				
<i>Phenol-d6</i>	<i>37</i>	<i>34 - 109</i>				
<i>Nitrobenzene-d5</i>	<i>38</i>	<i>30 - 109</i>				
<i>2-Fluorobiphenyl</i>	<i>39</i>	<i>39 - 103</i>				
<i>2,4,6-Tribromophenol</i>	<i>33</i>	<i>25 - 120</i>				
<i>Terphenyl-d14</i>	<i>38</i>	<i>40 - 117</i>				

Q

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1222S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Pyridine	ND	0.33	EPA 8270D	12-22-14	12-22-14	
Phenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Aniline	ND	0.17	EPA 8270D	12-22-14	12-22-14	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2-Chlorophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Benzyl alcohol	ND	0.17	EPA 8270D	12-22-14	12-22-14	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-22-14	12-22-14	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-22-14	12-22-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-22-14	12-22-14	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Hexachloroethane	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Nitrobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Isophorone	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2-Nitrophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
4-Chloroaniline	ND	0.17	EPA 8270D	12-22-14	12-22-14	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2-Nitroaniline	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Dimethylphthalate	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
3-Nitroaniline	ND	0.033	EPA 8270D	12-22-14	12-22-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1222S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-22-14	12-22-14	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
4-Nitrophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Dibenzofuran	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Diethylphthalate	ND	0.17	EPA 8270D	12-22-14	12-22-14	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-22-14	12-22-14	
4-Nitroaniline	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-22-14	12-22-14	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-22-14	12-22-14	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-22-14	12-22-14	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Pentachlorophenol	ND	0.17	EPA 8270D	12-22-14	12-22-14	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Carbazole	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Di-n-butylphthalate	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Benzidine	ND	0.33	EPA 8270D	12-22-14	12-22-14	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Butylbenzylphthalate	ND	0.033	EPA 8270D	12-22-14	12-22-14	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	12-22-14	12-22-14	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-22-14	12-22-14	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Di-n-octylphthalate	ND	0.033	EPA 8270D	12-22-14	12-22-14	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-22-14	12-22-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>89</i>	<i>31 - 110</i>				
<i>Phenol-d6</i>	<i>92</i>	<i>34 - 109</i>				
<i>Nitrobenzene-d5</i>	<i>95</i>	<i>30 - 109</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>39 - 103</i>				
<i>2,4,6-Tribromophenol</i>	<i>83</i>	<i>25 - 120</i>				
<i>Terphenyl-d14</i>	<i>88</i>	<i>40 - 117</i>				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
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 Project: SW Inspection

**SEMIVOLATILES EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Sediment
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1222S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	0.942	0.973	1.33	1.33	71	73	55 - 105	3	25	
2-Chlorophenol	0.874	0.911	1.33	1.33	66	68	56 - 102	4	30	
1,4-Dichlorobenzene	0.372	0.408	0.667	0.667	56	61	49 - 99	9	35	
n-Nitroso-di-n-propylamine	0.484	0.510	0.667	0.667	73	76	52 - 102	5	26	
1,2,4-Trichlorobenzene	0.390	0.394	0.667	0.667	58	59	49 - 110	1	30	
4-Chloro-3-methylphenol	0.960	1.02	1.33	1.33	72	77	59 - 113	6	22	
Acenaphthene	0.440	0.465	0.667	0.667	66	70	52 - 103	6	22	
4-Nitrophenol	0.940	0.997	1.33	1.33	71	75	51 - 125	6	23	
2,4-Dinitrotoluene	0.484	0.526	0.667	0.667	73	79	53 - 118	8	23	
Pentachlorophenol	0.744	0.784	1.33	1.33	56	59	25 - 141	5	39	
Pyrene	0.533	0.545	0.667	0.667	80	82	57 - 120	2	20	
<i>Surrogate:</i>										
<i>2-Fluorophenol</i>					67	68	31 - 110			
<i>Phenol-d6</i>					72	73	34 - 109			
<i>Nitrobenzene-d5</i>					71	72	30 - 109			
<i>2-Fluorobiphenyl</i>					67	69	39 - 103			
<i>2,4,6-Tribromophenol</i>					69	74	25 - 120			
<i>Terphenyl-d14</i>					75	76	40 - 117			

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
n-Nitrosodimethylamine	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Pyridine	ND	5.9	EPA 8270D	12-16-14	12-17-14	
Phenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Aniline	ND	2.9	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethyl)ether	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2-Chlorophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,3-Dichlorobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,4-Dichlorobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Benzyl alcohol	23	2.9	EPA 8270D	12-16-14	12-17-14	
1,2-Dichlorobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2-Methylphenol (o-Cresol)	ND	0.59	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroisopropyl)ether	ND	0.59	EPA 8270D	12-16-14	12-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.59	EPA 8270D	12-16-14	12-17-14	
n-Nitroso-di-n-propylamine	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Hexachloroethane	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Nitrobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Isophorone	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2-Nitrophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,4-Dimethylphenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethoxy)methane	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,4-Dichlorophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,2,4-Trichlorobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Naphthalene	0.27	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
4-Chloroaniline	ND	2.9	EPA 8270D	12-16-14	12-17-14	
Hexachlorobutadiene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
4-Chloro-3-methylphenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2-Methylnaphthalene	0.28	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
1-Methylnaphthalene	0.17	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
Hexachlorocyclopentadiene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,4,6-Trichlorophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,3-Dichloroaniline	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,4,5-Trichlorophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2-Chloronaphthalene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2-Nitroaniline	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,4-Dinitrobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Dimethylphthalate	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,3-Dinitrobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,6-Dinitrotoluene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,2-Dinitrobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Acenaphthylene	ND	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
3-Nitroaniline	ND	0.59	EPA 8270D	12-16-14	12-17-14	

Date of Report: December 24, 2014
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 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
2,4-Dinitrophenol	ND	2.9	EPA 8270D	12-16-14	12-17-14	
Acenaphthene	0.13	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
4-Nitrophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,4-Dinitrotoluene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Dibenzofuran	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,3,5,6-Tetrachlorophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
2,3,4,6-Tetrachlorophenol	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Diethylphthalate	ND	2.9	EPA 8270D	12-16-14	12-17-14	
4-Chlorophenyl-phenylether	ND	0.59	EPA 8270D	12-16-14	12-17-14	
4-Nitroaniline	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Fluorene	0.23	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
4,6-Dinitro-2-methylphenol	ND	2.9	EPA 8270D	12-16-14	12-17-14	
n-Nitrosodiphenylamine	ND	0.59	EPA 8270D	12-16-14	12-17-14	
1,2-Diphenylhydrazine	ND	0.59	EPA 8270D	12-16-14	12-17-14	
4-Bromophenyl-phenylether	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Hexachlorobenzene	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Pentachlorophenol	10	2.9	EPA 8270D	12-16-14	12-17-14	
Phenanthrene	2.0	0.59	EPA 8270D	12-16-14	12-17-14	
Anthracene	0.28	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
Carbazole	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Di-n-butylphthalate	0.77	0.59	EPA 8270D	12-16-14	12-17-14	
Fluoranthene	2.1	0.59	EPA 8270D	12-16-14	12-17-14	
Benzidine	ND	5.9	EPA 8270D	12-16-14	12-17-14	
Pyrene	2.1	0.59	EPA 8270D	12-16-14	12-17-14	
Butylbenzylphthalate	5.8	0.59	EPA 8270D	12-16-14	12-17-14	
bis-2-Ethylhexyladipate	ND	0.59	EPA 8270D	12-16-14	12-17-14	
3,3'-Dichlorobenzidine	ND	2.9	EPA 8270D	12-16-14	12-17-14	
Benzo[a]anthracene	0.85	0.59	EPA 8270D	12-16-14	12-17-14	
Chrysene	1.8	0.59	EPA 8270D	12-16-14	12-17-14	
bis(2-Ethylhexyl)phthalate	42	2.9	EPA 8270D	12-16-14	12-18-14	
Di-n-octylphthalate	ND	0.59	EPA 8270D	12-16-14	12-17-14	
Benzo[b]fluoranthene	1.7	0.59	EPA 8270D	12-16-14	12-17-14	
Benzo(j,k)fluoranthene	1.1	0.59	EPA 8270D	12-16-14	12-17-14	
Benzo[a]pyrene	1.1	0.59	EPA 8270D	12-16-14	12-17-14	
Indeno[1,2,3-cd]pyrene	0.96	0.59	EPA 8270D	12-16-14	12-17-14	
Dibenz[a,h]anthracene	0.30	0.12	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[g,h,i]perylene	1.3	0.59	EPA 8270D	12-16-14	12-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>59</i>	<i>31 - 110</i>				
<i>Phenol-d6</i>	<i>64</i>	<i>34 - 109</i>				
<i>Nitrobenzene-d5</i>	<i>62</i>	<i>30 - 109</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>39 - 103</i>				
<i>2,4,6-Tribromophenol</i>	<i>67</i>	<i>25 - 120</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>40 - 117</i>				

Date of Report: December 24, 2014
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 Project: SW Inspection

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
n-Nitrosodimethylamine	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Pyridine	ND	6.6	EPA 8270D	12-16-14	12-17-14	
Phenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Aniline	ND	3.3	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethyl)ether	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2-Chlorophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,3-Dichlorobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,4-Dichlorobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Benzyl alcohol	ND	3.3	EPA 8270D	12-16-14	12-17-14	
1,2-Dichlorobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2-Methylphenol (o-Cresol)	ND	0.66	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroisopropyl)ether	ND	0.66	EPA 8270D	12-16-14	12-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.66	EPA 8270D	12-16-14	12-17-14	
n-Nitroso-di-n-propylamine	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Hexachloroethane	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Nitrobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Isophorone	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2-Nitrophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,4-Dimethylphenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethoxy)methane	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,4-Dichlorophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,2,4-Trichlorobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Naphthalene	0.14	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
4-Chloroaniline	ND	3.3	EPA 8270D	12-16-14	12-17-14	
Hexachlorobutadiene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
4-Chloro-3-methylphenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2-Methylnaphthalene	ND	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
1-Methylnaphthalene	ND	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
Hexachlorocyclopentadiene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,4,6-Trichlorophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,3-Dichloroaniline	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,4,5-Trichlorophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2-Chloronaphthalene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2-Nitroaniline	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,4-Dinitrobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Dimethylphthalate	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,3-Dinitrobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,6-Dinitrotoluene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,2-Dinitrobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Acenaphthylene	ND	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
3-Nitroaniline	ND	0.66	EPA 8270D	12-16-14	12-17-14	

Date of Report: December 24, 2014
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
2,4-Dinitrophenol	ND	3.3	EPA 8270D	12-16-14	12-17-14	
Acenaphthene	ND	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
4-Nitrophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,4-Dinitrotoluene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Dibenzofuran	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,3,5,6-Tetrachlorophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
2,3,4,6-Tetrachlorophenol	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Diethylphthalate	ND	3.3	EPA 8270D	12-16-14	12-17-14	
4-Chlorophenyl-phenylether	ND	0.66	EPA 8270D	12-16-14	12-17-14	
4-Nitroaniline	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Fluorene	0.22	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
4,6-Dinitro-2-methylphenol	ND	3.3	EPA 8270D	12-16-14	12-17-14	
n-Nitrosodiphenylamine	ND	0.66	EPA 8270D	12-16-14	12-17-14	
1,2-Diphenylhydrazine	ND	0.66	EPA 8270D	12-16-14	12-17-14	
4-Bromophenyl-phenylether	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Hexachlorobenzene	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Pentachlorophenol	ND	3.3	EPA 8270D	12-16-14	12-17-14	
Phenanthrene	1.5	0.66	EPA 8270D	12-16-14	12-17-14	
Anthracene	0.45	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
Carbazole	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Di-n-butylphthalate	19	0.66	EPA 8270D	12-16-14	12-17-14	
Fluoranthene	2.4	0.66	EPA 8270D	12-16-14	12-17-14	
Benzidine	ND	6.6	EPA 8270D	12-16-14	12-17-14	
Pyrene	2.7	0.66	EPA 8270D	12-16-14	12-17-14	
Butylbenzylphthalate	ND	0.66	EPA 8270D	12-16-14	12-17-14	
bis-2-Ethylhexyladipate	ND	0.66	EPA 8270D	12-16-14	12-17-14	
3,3'-Dichlorobenzidine	ND	3.3	EPA 8270D	12-16-14	12-17-14	
Benzo[a]anthracene	1.1	0.66	EPA 8270D	12-16-14	12-17-14	
Chrysene	2.1	0.66	EPA 8270D	12-16-14	12-17-14	
bis(2-Ethylhexyl)phthalate	39	0.66	EPA 8270D	12-16-14	12-17-14	
Di-n-octylphthalate	ND	0.66	EPA 8270D	12-16-14	12-17-14	
Benzo[b]fluoranthene	1.2	0.66	EPA 8270D	12-16-14	12-17-14	
Benzo(j,k)fluoranthene	1.1	0.66	EPA 8270D	12-16-14	12-17-14	
Benzo[a]pyrene	0.98	0.66	EPA 8270D	12-16-14	12-17-14	
Indeno[1,2,3-cd]pyrene	0.63	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
Dibenz[a,h]anthracene	0.35	0.13	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[g,h,i]perylene	1.1	0.66	EPA 8270D	12-16-14	12-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>53</i>	<i>31 - 110</i>				
<i>Phenol-d6</i>	<i>53</i>	<i>34 - 109</i>				
<i>Nitrobenzene-d5</i>	<i>56</i>	<i>30 - 109</i>				
<i>2-Fluorobiphenyl</i>	<i>55</i>	<i>39 - 103</i>				
<i>2,4,6-Tribromophenol</i>	<i>55</i>	<i>25 - 120</i>				
<i>Terphenyl-d14</i>	<i>59</i>	<i>40 - 117</i>				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**SEMIVOLATILES EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Pyridine	ND	0.33	EPA 8270D	12-16-14	12-17-14	
Phenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Aniline	ND	0.17	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2-Chlorophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Benzyl alcohol	ND	0.17	EPA 8270D	12-16-14	12-17-14	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-16-14	12-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-16-14	12-17-14	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Hexachloroethane	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Nitrobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Isophorone	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2-Nitrophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
4-Chloroaniline	ND	0.17	EPA 8270D	12-16-14	12-17-14	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2-Nitroaniline	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Dimethylphthalate	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
3-Nitroaniline	ND	0.033	EPA 8270D	12-16-14	12-17-14	

Date of Report: December 24, 2014
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SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-16-14	12-17-14	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
4-Nitrophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Dibenzofuran	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Diethylphthalate	ND	0.17	EPA 8270D	12-16-14	12-17-14	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-16-14	12-17-14	
4-Nitroaniline	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-16-14	12-17-14	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-16-14	12-17-14	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-16-14	12-17-14	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Pentachlorophenol	ND	0.17	EPA 8270D	12-16-14	12-17-14	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Carbazole	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Di-n-butylphthalate	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Benzidine	ND	0.33	EPA 8270D	12-16-14	12-17-14	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Butylbenzylphthalate	ND	0.033	EPA 8270D	12-16-14	12-17-14	
bis(2-Ethylhexyl)adipate	ND	0.033	EPA 8270D	12-16-14	12-17-14	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-16-14	12-17-14	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Di-n-octylphthalate	ND	0.033	EPA 8270D	12-16-14	12-17-14	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-16-14	12-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	90	31 - 110				
Phenol-d6	90	34 - 109				
Nitrobenzene-d5	96	30 - 109				
2-Fluorobiphenyl	84	39 - 103				
2,4,6-Tribromophenol	86	25 - 120				
Terphenyl-d14	85	40 - 117				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**SEMIVOLATILES EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1216S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.06	1.04	1.33	1.33	80	78	55 - 105	2	25	
2-Chlorophenol	1.07	1.08	1.33	1.33	80	81	56 - 102	1	30	
1,4-Dichlorobenzene	0.514	0.518	0.667	0.667	77	78	49 - 99	1	35	
n-Nitroso-di-n-propylamine	0.510	0.509	0.667	0.667	76	76	52 - 102	0	26	
1,2,4-Trichlorobenzene	0.507	0.511	0.667	0.667	76	77	49 - 110	1	30	
4-Chloro-3-methylphenol	1.04	1.05	1.33	1.33	78	79	59 - 113	1	22	
Acenaphthene	0.486	0.505	0.667	0.667	73	76	52 - 103	4	22	
4-Nitrophenol	0.997	0.976	1.33	1.33	75	73	51 - 125	2	23	
2,4-Dinitrotoluene	0.526	0.532	0.667	0.667	79	80	53 - 118	1	23	
Pentachlorophenol	1.02	1.02	1.33	1.33	77	77	25 - 141	0	39	
Pyrene	0.549	0.557	0.667	0.667	82	84	57 - 120	1	20	
<i>Surrogate:</i>										
2-Fluorophenol					78	78	31 - 110			
Phenol-d6					79	81	34 - 109			
Nitrobenzene-d5					83	87	30 - 109			
2-Fluorobiphenyl					75	77	39 - 103			
2,4,6-Tribromophenol					78	76	25 - 120			
Terphenyl-d14					78	80	40 - 117			

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-OWS-05-20141211-S					
Laboratory ID:	12-140-01					
Diesel Range Organics	7300	800	NWTPH-Dx	12-16-14	12-16-14	
Lube Oil	16000	1600	NWTPH-Dx	12-16-14	12-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
Diesel Range Organics	4100	440	NWTPH-Dx	12-16-14	12-16-14	
Lube Oil	4600	880	NWTPH-Dx	12-16-14	12-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
Diesel Range Organics	ND	1200	NWTPH-Dx	12-16-14	12-16-14	U1
Lube Oil	6300	500	NWTPH-Dx	12-16-14	12-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-16-14	12-16-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-16-14	12-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-135-01							
	ORIG	DUP						
Diesel Range Organics	1490	1350	NA	NA	NA	NA	10	NA
Lube Oil	10500	9430	NA	NA	NA	NA	11	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				---	---	50-150		S,S

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-140-01					
Client ID:	SC-OWS-05-20141211-S					
Arsenic	19	16	6010C	12-22-14	12-23-14	
Barium	230	8.0	6010C	12-22-14	12-23-14	
Cadmium	8.7	1.6	6010C	12-22-14	12-23-14	
Chromium	100	1.6	6010C	12-22-14	12-23-14	
Copper	1100	3.2	6010C	12-22-14	12-23-14	
Lead	570	16	6010C	12-22-14	12-23-14	
Mercury	1.8	0.80	7471B	12-23-14	12-23-14	
Selenium	ND	32	6010C	12-22-14	12-23-14	
Silver	ND	3.2	6010C	12-22-14	12-23-14	
Zinc	3000	40	6010C	12-22-14	12-22-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-22&23-14
 Date Analyzed: 12-22&23-14

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB1222SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	5
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Zinc	6010C	ND	2.5

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-23-14
Date Analyzed: 12-23-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1223S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 12-22&23-14

Date Analyzed: 12-22&23-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 12-255-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	5	
Barium	16.1	17.8	10	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	14.2	15.0	6	0.50	
Copper	6.90	7.35	6	1.0	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Zinc	18.0	18.6	3	2.5	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 12-23-14
Date Analyzed: 12-23-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-209-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-22&23-14

Date Analyzed: 12-22&23-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 12-255-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	102	102	107	107	5	
Barium	100	112	96	118	102	5	
Cadmium	50.0	49.4	99	51.6	103	4	
Chromium	100	110	96	117	103	7	
Copper	50.0	57.8	102	60.7	108	5	
Lead	250	240	96	253	101	5	
Selenium	100	96.8	97	102	102	5	
Silver	25.0	22.6	90	23.7	95	5	
Zinc	100	120	102	125	107	4	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 12-23-14
Date Analyzed: 12-23-14

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-209-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-140-02					
Client ID:	SC-CB-35-20141211-S					
Arsenic	ND	18	6010C	12-18-14	12-18-14	
Barium	180	4.4	6010C	12-18-14	12-18-14	
Cadmium	6.6	0.88	6010C	12-18-14	12-18-14	
Chromium	150	0.88	6010C	12-18-14	12-18-14	
Copper	510	1.8	6010C	12-18-14	12-18-14	
Lead	260	8.8	6010C	12-18-14	12-18-14	
Mercury	ND	0.44	7471B	12-19-14	12-19-14	
Selenium	ND	18	6010C	12-18-14	12-18-14	
Silver	1.9	1.8	6010C	12-18-14	12-18-14	
Zinc	1700	22	6010C	12-18-14	12-19-14	

Lab ID:	12-140-03					
Client ID:	SC-CB-24-20141211-S					
Arsenic	ND	20	6010C	12-18-14	12-18-14	
Barium	340	5.0	6010C	12-18-14	12-18-14	
Cadmium	3.1	1.0	6010C	12-18-14	12-18-14	
Chromium	68	1.0	6010C	12-18-14	12-18-14	
Copper	2600	10	6010C	12-18-14	12-19-14	
Lead	430	10	6010C	12-18-14	12-18-14	
Mercury	ND	0.50	7471B	12-19-14	12-19-14	
Selenium	ND	20	6010C	12-18-14	12-18-14	
Silver	ND	2.0	6010C	12-18-14	12-18-14	
Zinc	1700	25	6010C	12-18-14	12-19-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C/7471B
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-18&19-14
 Date Analyzed: 12-18&19-14

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB1218SM1&MB1219S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Zinc	6010C	ND	2.5

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 6010C/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 12-18&19-14

Date Analyzed: 12-18&19-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 12-150-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	27.1	25.9	5	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	23.1	24.1	5	0.50	
Copper	4.51	4.61	2	1.0	
Lead	7.90	7.30	8	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Zinc	16.0	16.4	3	2.5	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
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 Project: SW Inspection

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-18&19-14

Date Analyzed: 12-18&19-14

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 12-150-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	96.5	96	97.4	97	1	
Barium	100	120	93	124	97	3	
Cadmium	50.0	48.2	96	49.1	98	2	
Chromium	100	113	90	117	94	3	
Copper	50.0	51.1	93	52.0	95	2	
Lead	250	240	93	243	94	1	
Mercury	0.500	0.489	98	0.491	98	0	
Selenium	100	93.0	93	92.4	92	1	
Silver	25.0	20.6	82	20.6	82	0	
Zinc	100	114	98	117	101	2	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
Gasoline	ND	11	NWTPH-Gx	12-15-14	12-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	68-123				
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
Gasoline	ND	21	NWTPH-Gx	12-15-14	12-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	68-123				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
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 Project: SW Inspection

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215S1					
Gasoline	ND	5.0	NWTPH-Gx	12-15-14	12-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-130-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				98	93	68-123		

Date of Report: December 24, 2014
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 Project: SW Inspection

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
Dichlorodifluoromethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Chloromethane	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Vinyl Chloride	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Bromomethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Chloroethane	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Trichlorofluoromethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloroethene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Acetone	ND	1.0	EPA 8260C	12-15-14	12-15-14	
Iodomethane	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Carbon Disulfide	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Methylene Chloride	ND	0.54	EPA 8260C	12-15-14	12-15-14	
(trans) 1,2-Dichloroethene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Methyl t-Butyl Ether	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloroethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Vinyl Acetate	ND	0.54	EPA 8260C	12-15-14	12-15-14	
2,2-Dichloropropane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
(cis) 1,2-Dichloroethene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
2-Butanone	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Bromochloromethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Chloroform	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,1,1-Trichloroethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Carbon Tetrachloride	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloropropene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Benzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2-Dichloroethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Trichloroethene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2-Dichloropropane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Dibromomethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Bromodichloromethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
2-Chloroethyl Vinyl Ether	ND	0.54	EPA 8260C	12-15-14	12-15-14	
(cis) 1,3-Dichloropropene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Methyl Isobutyl Ketone	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Toluene	ND	0.54	EPA 8260C	12-15-14	12-15-14	
(trans) 1,3-Dichloropropene	ND	0.11	EPA 8260C	12-15-14	12-15-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
1,1,2-Trichloroethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Tetrachloroethene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,3-Dichloropropane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
2-Hexanone	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Dibromochloromethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2-Dibromoethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Chlorobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,1,1,2-Tetrachloroethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Ethylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
m,p-Xylene	0.25	0.22	EPA 8260C	12-15-14	12-15-14	
o-Xylene	0.12	0.11	EPA 8260C	12-15-14	12-15-14	
Styrene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Bromoform	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Isopropylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Bromobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,1,2,2-Tetrachloroethane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2,3-Trichloropropane	ND	0.11	EPA 8260C	12-15-14	12-15-14	
n-Propylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
2-Chlorotoluene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
4-Chlorotoluene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,3,5-Trimethylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
tert-Butylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2,4-Trimethylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
sec-Butylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,3-Dichlorobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
p-Isopropyltoluene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,4-Dichlorobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2-Dichlorobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
n-Butylbenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2-Dibromo-3-chloropropane	ND	0.54	EPA 8260C	12-15-14	12-15-14	
1,2,4-Trichlorobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
Hexachlorobutadiene	ND	0.54	EPA 8260C	12-15-14	12-15-14	
Naphthalene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
1,2,3-Trichlorobenzene	ND	0.11	EPA 8260C	12-15-14	12-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>70</i>	<i>79-126</i>				

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Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
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 Project: SW Inspection

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Chloromethane	ND	0.0099	EPA 8260C	12-15-14	12-15-14	
Vinyl Chloride	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Bromomethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Chloroethane	ND	0.0099	EPA 8260C	12-15-14	12-15-14	
Trichlorofluoromethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloroethene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Acetone	0.69	0.019	EPA 8260C	12-15-14	12-15-14	Y,E
Iodomethane	ND	0.0099	EPA 8260C	12-15-14	12-15-14	
Carbon Disulfide	0.0035	0.0020	EPA 8260C	12-15-14	12-15-14	
Methylene Chloride	ND	0.0099	EPA 8260C	12-15-14	12-15-14	
(trans) 1,2-Dichloroethene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Methyl t-Butyl Ether	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloroethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Vinyl Acetate	ND	0.0099	EPA 8260C	12-15-14	12-15-14	
2,2-Dichloropropane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
(cis) 1,2-Dichloroethene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
2-Butanone	0.23	0.0099	EPA 8260C	12-15-14	12-15-14	
Bromochloromethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Chloroform	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
1,1,1-Trichloroethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Carbon Tetrachloride	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloropropene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Benzene	0.0077	0.0020	EPA 8260C	12-15-14	12-15-14	
1,2-Dichloroethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Trichloroethene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
1,2-Dichloropropane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Dibromomethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Bromodichloromethane	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
2-Chloroethyl Vinyl Ether	ND	0.0099	EPA 8260C	12-15-14	12-15-14	
(cis) 1,3-Dichloropropene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
Methyl Isobutyl Ketone	0.014	0.0099	EPA 8260C	12-15-14	12-15-14	
Toluene	0.046	0.0099	EPA 8260C	12-15-14	12-15-14	
(trans) 1,3-Dichloropropene	ND	0.21	EPA 8260C	12-15-14	12-15-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
1,1,2-Trichloroethane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Tetrachloroethene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,3-Dichloropropane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
2-Hexanone	ND	1.0	EPA 8260C	12-15-14	12-15-14	
Dibromochloromethane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,2-Dibromoethane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Chlorobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,1,1,2-Tetrachloroethane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Ethylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
m,p-Xylene	ND	0.41	EPA 8260C	12-15-14	12-15-14	
o-Xylene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Styrene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Bromoform	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Isopropylbenzene	0.30	0.21	EPA 8260C	12-15-14	12-15-14	
Bromobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,1,2,2-Tetrachloroethane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,2,3-Trichloropropane	ND	0.21	EPA 8260C	12-15-14	12-15-14	
n-Propylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
2-Chlorotoluene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
4-Chlorotoluene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,3,5-Trimethylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
tert-Butylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,2,4-Trimethylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
sec-Butylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,3-Dichlorobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
p-Isopropyltoluene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,4-Dichlorobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,2-Dichlorobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
n-Butylbenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-14	12-15-14	
1,2,4-Trichlorobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-15-14	12-15-14	
Naphthalene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
1,2,3-Trichlorobenzene	ND	0.21	EPA 8260C	12-15-14	12-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>79-126</i>				

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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1215S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Chloromethane	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Bromomethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Chloroethane	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Acetone	ND	0.0096	EPA 8260C	12-15-14	12-15-14	
Iodomethane	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Methylene Chloride	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
2-Butanone	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Bromochloromethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Chloroform	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Benzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Trichloroethene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Dibromomethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Toluene	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	

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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1215S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
2-Hexanone	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Chlorobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Ethylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
m,p-Xylene	ND	0.0020	EPA 8260C	12-15-14	12-15-14	
o-Xylene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Styrene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Bromoform	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Bromobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-15-14	12-15-14	
Naphthalene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-15-14	12-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>79-126</i>				

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**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1215S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0577	0.0589	0.0500	0.0500	115	118	66-129	2	15	
Benzene	0.0557	0.0562	0.0500	0.0500	111	112	71-123	1	15	
Trichloroethene	0.0515	0.0521	0.0500	0.0500	103	104	75-115	1	15	
Toluene	0.0499	0.0505	0.0500	0.0500	100	101	75-120	1	15	
Chlorobenzene	0.0460	0.0465	0.0500	0.0500	92	93	75-121	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>89</i>	<i>89</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>94</i>	<i>93</i>	<i>82-129</i>			
<i>4-Bromofluorobenzene</i>					<i>111</i>	<i>111</i>	<i>79-126</i>			

Date of Report: December 24, 2014
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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-OWS-05-20141211-S					
Laboratory ID:	12-140-01					
Total Organic Carbon	19	0.57	EPA 9060	12-23-14	12-23-14	
Client ID:	SC-CB-35-20141211-S					
Laboratory ID:	12-140-02					
Total Organic Carbon	7.8	0.66	EPA 9060	12-23-14	12-23-14	
Client ID:	SC-CB-24-20141211-S					
Laboratory ID:	12-140-03					
Total Organic Carbon	10	0.68	EPA 9060	12-23-14	12-23-14	

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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1223S1					
Total Organic Carbon	ND	0.042	EPA 9060	12-23-14	12-23-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-197-02							
	ORIG	DUP						
Total Organic Carbon	6.37	7.215	NA	NA	NA	NA	12	20

SPIKE BLANK								
Laboratory ID:	SB1223S1							
	SB	SB		SB				
Total Organic Carbon	45.3	42.1	NA	108	87-132	NA	NA	

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SEMIVOLATILES EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
n-Nitrosodimethylamine	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Pyridine	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Phenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Aniline	ND	4.7	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2-Chlorophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,3-Dichlorobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,4-Dichlorobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Benzyl alcohol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,2-Dichlorobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270D	12-16-14	12-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270D	12-16-14	12-17-14	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Hexachloroethane	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Nitrobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Isophorone	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2-Nitrophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,4-Dimethylphenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,4-Dichlorophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Naphthalene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
4-Chloroaniline	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Hexachlorobutadiene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2-Methylnaphthalene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
1-Methylnaphthalene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,3-Dichloroaniline	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2-Chloronaphthalene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2-Nitroaniline	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,4-Dinitrobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Dimethylphthalate	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,3-Dinitrobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,6-Dinitrotoluene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,2-Dinitrobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Acenaphthylene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
3-Nitroaniline	ND	0.95	EPA 8270D	12-16-14	12-17-14	

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SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
2,4-Dinitrophenol	ND	4.7	EPA 8270D	12-16-14	12-17-14	
Acenaphthene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
4-Nitrophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,4-Dinitrotoluene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Dibenzofuran	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Diethylphthalate	ND	0.95	EPA 8270D	12-16-14	12-17-14	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270D	12-16-14	12-17-14	
4-Nitroaniline	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Fluorene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270D	12-16-14	12-17-14	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270D	12-16-14	12-17-14	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270D	12-16-14	12-17-14	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Hexachlorobenzene	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Pentachlorophenol	ND	4.7	EPA 8270D	12-16-14	12-17-14	
Phenanthrene	0.13	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
Anthracene	ND	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
Carbazole	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Di-n-butylphthalate	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Fluoranthene	0.20	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
Benzidine	ND	4.7	EPA 8270D	12-16-14	12-17-14	
Pyrene	0.19	0.095	EPA 8270D/SIM	12-16-14	12-17-14	
Butylbenzylphthalate	ND	0.95	EPA 8270D	12-16-14	12-17-14	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270D	12-16-14	12-17-14	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Benzo[a]anthracene	0.081	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
Chrysene	0.12	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
bis(2-Ethylhexyl)phthalate	ND	4.7	EPA 8270D	12-16-14	12-17-14	
Di-n-octylphthalate	ND	0.95	EPA 8270D	12-16-14	12-17-14	
Benzo[b]fluoranthene	0.061	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo(j,k)fluoranthene	0.053	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[a]pyrene	0.051	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
Indeno[1,2,3-cd]pyrene	0.038	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
Dibenz[a,h]anthracene	0.016	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[g,h,i]perylene	0.051	0.0095	EPA 8270D/SIM	12-16-14	12-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>48</i>	<i>19 - 86</i>				
<i>Phenol-d6</i>	<i>41</i>	<i>10 - 94</i>				
<i>Nitrobenzene-d5</i>	<i>83</i>	<i>37 - 108</i>				
<i>2-Fluorobiphenyl</i>	<i>82</i>	<i>46 - 107</i>				
<i>2,4,6-Tribromophenol</i>	<i>90</i>	<i>49 - 116</i>				
<i>Terphenyl-d14</i>	<i>90</i>	<i>69 - 112</i>				

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**SEMIVOLATILES EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Pyridine	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Phenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Aniline	ND	5.0	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2-Chlorophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Benzyl alcohol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-16-14	12-17-14	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-16-14	12-17-14	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Hexachloroethane	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Nitrobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Isophorone	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2-Nitrophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
4-Chloroaniline	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2-Nitroaniline	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Dimethylphthalate	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
3-Nitroaniline	ND	1.0	EPA 8270D	12-16-14	12-17-14	

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**SEMIVOLATILES EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-16-14	12-17-14	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
4-Nitrophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Dibenzofuran	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Diethylphthalate	ND	1.0	EPA 8270D	12-16-14	12-17-14	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-16-14	12-17-14	
4-Nitroaniline	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Fluorene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-16-14	12-17-14	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-16-14	12-17-14	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-16-14	12-17-14	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Pentachlorophenol	ND	5.0	EPA 8270D	12-16-14	12-17-14	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
Anthracene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
Carbazole	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Di-n-butylphthalate	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
Benzidine	ND	5.0	EPA 8270D	12-16-14	12-17-14	
Pyrene	ND	0.10	EPA 8270D/SIM	12-16-14	12-17-14	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-16-14	12-17-14	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270D	12-16-14	12-17-14	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
Chrysene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-16-14	12-17-14	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-16-14	12-17-14	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-16-14	12-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	60	19 - 86				
Phenol-d6	46	10 - 94				
Nitrobenzene-d5	94	37 - 108				
2-Fluorobiphenyl	85	46 - 107				
2,4,6-Tribromophenol	95	49 - 116				
Terphenyl-d14	93	69 - 112				

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**SEMIVOLATILES EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB1216W2									
Phenol	18.4	18.5	40.0	40.0	46	46	31 - 70	1	32	
2-Chlorophenol	32.0	31.8	40.0	40.0	80	80	51 - 103	1	37	
1,4-Dichlorobenzene	14.0	14.0	20.0	20.0	70	70	45 - 94	0	42	
n-Nitroso-di-n-propylamine	15.8	16.7	20.0	20.0	79	84	45 - 102	6	36	
1,2,4-Trichlorobenzene	14.0	14.4	20.0	20.0	70	72	51 - 98	3	37	
4-Chloro-3-methylphenol	31.8	32.8	40.0	40.0	80	82	67 - 116	3	32	
Acenaphthene	15.0	15.6	20.0	20.0	75	78	63 - 103	4	27	
4-Nitrophenol	17.8	17.9	40.0	40.0	45	45	36 - 75	1	37	
2,4-Dinitrotoluene	16.3	16.3	20.0	20.0	82	82	68 - 123	0	30	
Pentachlorophenol	31.7	32.4	40.0	40.0	79	81	40 - 120	2	38	
Pyrene	17.0	17.2	20.0	20.0	85	86	60 - 120	1	29	
<i>Surrogate:</i>										
2-Fluorophenol					58	58	19 - 86			
Phenol-d6					46	45	10 - 94			
Nitrobenzene-d5					85	87	37 - 108			
2-Fluorobiphenyl					75	77	46 - 107			
2,4,6-Tribromophenol					82	82	49 - 116			
Terphenyl-d14					82	81	69 - 112			

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 200.8/245.1**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-140-04					
Client ID:	SC-MH-20-20141211-W					
Arsenic	0.58	0.50	200.8	12-18-14	12-18-14	
Arsenic	15	2.5	200.8	12-18-14	12-18-14	
Cadmium	0.39	0.20	200.8	12-18-14	12-18-14	
Chromium	ND	5.0	200.8	12-18-14	12-18-14	
Copper	61	2.0	200.8	12-18-14	12-18-14	
Lead	11	0.50	200.8	12-18-14	12-18-14	
Mercury	ND	0.025	245.1	12-18-14	12-18-14	
Nickel	ND	4.0	200.8	12-18-14	12-18-14	
Nickel	ND	2.5	200.8	12-18-14	12-18-14	
Silver	ND	0.20	200.8	12-18-14	12-18-14	
Zinc	210	2.5	200.8	12-18-14	12-18-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 200.8
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-18-14
 Date Analyzed: 12-18-14
 Matrix: Water
 Units: ug/L (ppb)
 Lab ID: MB1218WH1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	0.50
Barium	200.8	ND	2.5
Cadmium	200.8	ND	0.20
Chromium	200.8	ND	5.0
Copper	200.8	ND	2.0
Lead	200.8	ND	0.50
Nickel	200.8	ND	4.0
Selenium	200.8	ND	2.5
Silver	200.8	ND	0.20
Zinc	200.8	ND	2.5

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

TOTAL MERCURY
EPA 245.1
METHOD BLANK QUALITY CONTROL

Date Extracted: 12-18-14

Date Analyzed: 12-18-14

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1218W1

Analyte	Method	Result	PQL
Mercury	245.1	ND	0.025

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 200.8
 DUPLICATE QUALITY CONTROL**

Date Extracted: 12-18-14
 Date Analyzed: 12-18-14

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: 12-041-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	8.14	8.08	1	0.50	
Barium	37.7	38.8	3	2.5	
Cadmium	ND	ND	NA	0.20	
Chromium	ND	ND	NA	5.0	
Copper	ND	ND	NA	2.0	
Lead	ND	ND	NA	0.50	
Nickel	ND	ND	NA	4.0	
Selenium	ND	ND	NA	2.5	
Silver	ND	ND	NA	0.20	
Zinc	8.17	7.39	10	2.5	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

TOTAL MERCURY
EPA 245.1
DUPLICATE QUALITY CONTROL

Date Extracted: 12-18-14
Date Analyzed: 12-18-14

Matrix: Water
Units: ug/L (ppb)

Lab ID: 12-041-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.025	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-18-14

Date Analyzed: 12-18-14

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-041-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	114	106	114	106	0	
Barium	100	141	103	141	103	0	
Cadmium	100	104	104	103	103	0	
Chromium	100	112	112	112	112	0	
Copper	100	102	102	104	104	2	
Lead	100	100	100	101	101	1	
Nickel	100	107	107	108	108	1	
Selenium	100	97.7	98	100	100	3	
Silver	100	104	104	106	106	2	
Zinc	100	109	101	110	102	1	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

TOTAL MERCURY
EPA 245.1
MS/MSD QUALITY CONTROL

Date Extracted: 12-18-14

Date Analyzed: 12-18-14

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-041-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	6.25	5.51	88	5.72	91	4	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
Carbonate Alkalinity	ND	2.0	SM 2320B	12-16-14	12-16-14	
Bicarbonate Concentration	5.0	2.0	SM 2320B	12-16-14	12-16-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
Carbonate Alkalinity	ND	2.0	SM 2320B	12-16-14	12-16-14	
Bicarbonate Concentration	ND	2.0	SM 2320B	12-16-14	12-16-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-04							
	ORIG	DUP						
Total Alkalinity	5.00	5.00	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1216W1							
	SB	SB		SB				
Total Alkalinity	106	100	NA	106	88-114	NA	NA	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
Sulfate	ND	5.0	ASTM D516-07	12-17-14	12-17-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
Sulfate	ND	5.0	ASTM D516-07	12-17-14	12-17-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-04							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	12-140-04							
	MS	MS		MS				
Sulfate	10.9	10.0	ND	109	82-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1217W1							
	SB	SB		SB				
Sulfate	9.55	10.0	NA	96	90-114	NA	NA	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

TOTAL ORGANIC CARBON
EPA 9060

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
Total Organic Carbon	2.5	1.0	SM 5310B	12-17-14	12-17-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL ORGANIC CARBON
 EPA 9060
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
Total Organic Carbon	ND	1.0	SM 5310B	12-17-14	12-17-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-04							
	ORIG	DUP						
Total Organic Carbon	2.55	2.566	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	12-140-04							
	MS	MS		MS				
Total Organic Carbon	12.1		10.0	2.55	96	80-122	NA	NA

SPIKE BLANK

Laboratory ID:	SB1217W1							
	SB	SB		SB				
Total Organic Carbon	9.65		10.0	NA	97	84-115	NA	NA

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

**DISSOLVED ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
Dissolved Organic Carbon	2.1	1.0	SM 5310B	12-15-14	12-17-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**DISSOLVED ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215D1					
Dissolved Organic Carbon	ND	1.0	SM 5310B	12-15-14	12-17-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-04							
	ORIG	DUP						
Dissolved Organic Carbon	2.05	1.881	NA	NA	NA	9	20	

MATRIX SPIKE

Laboratory ID:	12-140-04							
	MS	MS		MS				
Dissolved Organic Carbon	11.3	10.0	2.05	93	75-125	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1215D1							
	SB	SB		SB				
Dissolved Organic Carbon	9.55	10.0	NA	96	75-125	NA	NA	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

**TOTAL SUSPENDED SOLIDS
SM 2540D**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SC-MH-20-20141211-W					
Laboratory ID:	12-140-04					
Total Suspended Solids	13	4.0	SM 2540D	12-16-14	12-17-14	

Date of Report: December 24, 2014
 Samples Submitted: December 12, 2014
 Laboratory Reference: 1412-140
 Project: SW Inspection

**TOTAL SUSPENDED SOLIDS
 SM 2540D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
Total Suspended Solids	ND	4.0	SM 2540D	12-16-14	12-17-14	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-04							
	ORIG	DUP						
Total Suspended Solids	13.0	12.0	NA	NA	NA	NA	8	20

SPIKE BLANK								
Laboratory ID:	SB1216W1							
	SB	SB		SB				
Total Suspended Solids	99.0	100	NA	99	76-111	NA	NA	

Date of Report: December 24, 2014
Samples Submitted: December 12, 2014
Laboratory Reference: 1412-140
Project: SW Inspection

% MOISTURE

Date Analyzed: 12-15&17-14

Client ID	Lab ID	% Moisture
SC-OWS-05-20141211-S	12-140-01	69
SC-CB-35-20141211-S	12-140-02	43
SC-CB-24-20141211-S	12-140-03	50



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

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

Chain of Custody Record

12-140



Client Contact: **Gary Lockwood**

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.

Project Manager: **Gary Lockwood**

Tel/Fax: **206 684-3293**

Site Contact: **N**

Date: **12/11/14**

COC No: **2** of **2** COCs

Project Name: **SW Inspector**
Site: **SSC**
P O #

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below 3 Weeks
 2 weeks
 1 week
 2 days
 1 day

Carrier: Courier
Lab Contact: **PCRA**

For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	SVOCs (Method 8270D)	Metals (Method 200.8/7470A)	pH (Method SM4500H)	Spec Cond (Method 120.1)	Alk/Bicarb/Carb (Method SM2320)	Anions (Method 800.0/353.2) *	TOC (Method SM5310B)	DOC (Method SM5310B)	TSS (Method 2540D)	PCB Congeners	Dioxins/Furans
4 SC-MH-20-20141211-W	12/11/14	1500	G	W	13	N		2	1	2	2	1	2	1	2	1		

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

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

Special Instructions/QC Requirements & Comments: **Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal by Lab Archive for **2+** Months

Custody Seals Intact: Yes No

Relinquished by: **W. J. ...** Company: **Leidos** Date/Time: **12/11/14 1500** Received by: **...** Company: **SCA** Date/Time: **12/11/14**

Relinquished by: **Gary Lockwood** Company: **SCA** Date/Time: **12/11/14** Received in Laboratory by: **...** Company: **SCA** Date/Time: **12/11/14**

Relinquished by: **...** Company: **SCA** Date/Time: **12/11/14** Received in Laboratory by: **...** Company: **SCA** Date/Time: **12/11/14**