

ATTACHMENT 6

**FILTER DRUM INFLUENT AND EFFLUENT DATA
09/14/06**

ZEOLITE, PERLITE AND VERMICULITE

FILTER DRUM INFLUENT AND EFFLUENT DATA

09/14/06

ZEOLITE, PERLITE AND VERMICULITE

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/14/06
Received: 09/14/06
Issued: 09/26/06 14:05

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID

IPI1289-01

CLIENT ID

Z-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
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 Report Number: IPI1289

Sampled: 09/14/06
 Received: 09/14/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1289-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6118075	0.015	0.040	0.22	1	09/18/06	09/20/06	
Sample ID: IPI1289-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6118070	0.050	2.0	0.71	1	09/18/06	09/18/06	J
Arsenic	EPA 200.7	6118075	4.4	5.0	6.8	1	09/18/06	09/20/06	
Beryllium	EPA 200.7	6118075	0.90	2.0	ND	1	09/18/06	09/20/06	
Cadmium	EPA 200.8	6118070	0.025	1.0	ND	1	09/18/06	09/18/06	
Chromium	EPA 200.7	6118075	2.0	5.0	ND	1	09/18/06	09/20/06	
Copper	EPA 200.8	6119133	0.25	2.0	0.76	1	09/19/06	09/20/06	B, J
Lead	EPA 200.8	6118070	0.040	1.0	0.27	1	09/18/06	09/18/06	J
Manganese	EPA 200.7	6118075	7.0	20	230	1	09/18/06	09/20/06	
Mercury	EPA 245.1	6115062	0.15	0.20	ND	1	09/15/06	09/15/06	
Nickel	EPA 200.7	6118075	2.0	10	ND	1	09/18/06	09/20/06	
Selenium	EPA 200.8	6118070	0.30	2.0	0.46	1	09/18/06	09/18/06	J
Silver	EPA 200.8	6118070	0.025	1.0	ND	1	09/18/06	09/18/06	
Thallium	EPA 200.8	6118070	0.15	1.0	ND	1	09/18/06	09/18/06	
Zinc	EPA 200.7	6118075	15	20	16	1	09/18/06	09/20/06	J

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1289-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6115121	0.015	0.040	0.028	1	09/15/06	09/23/06	J
Sample ID: IPI1289-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6118073	0.050	2.0	0.86	1	09/18/06	09/18/06	J
Arsenic	EPA 200.7-Diss	6115121	4.4	5.0	ND	1	09/15/06	09/23/06	
Beryllium	EPA 200.7-Diss	6115121	0.90	2.0	ND	1	09/15/06	09/23/06	
Cadmium	EPA 200.8-Diss	6118073	0.025	1.0	ND	1	09/18/06	09/18/06	
Chromium	EPA 200.7-Diss	6115121	2.0	5.0	ND	1	09/15/06	09/23/06	
Copper	EPA 200.8-Diss	6118073	0.25	2.0	19	1	09/18/06	09/18/06	
Lead	EPA 200.8-Diss	6118073	0.040	1.0	0.054	1	09/18/06	09/18/06	J
Manganese	EPA 200.7-Diss	6115121	7.0	20	ND	1	09/15/06	09/23/06	
Mercury	EPA 245.1-Diss	6118082	0.15	0.20	ND	1	09/18/06	09/18/06	
Nickel	EPA 200.7-Diss	6115121	2.0	10	3.7	1	09/15/06	09/23/06	J
Selenium	EPA 200.8-Diss	6118073	0.30	2.0	0.62	1	09/18/06	09/18/06	J
Silver	EPA 200.8-Diss	6118073	0.025	1.0	ND	1	09/18/06	09/18/06	
Thallium	EPA 200.8-Diss	6118073	0.15	1.0	0.19	1	09/18/06	09/18/06	J
Zinc	EPA 200.7-Diss	6115121	15	20	ND	1	09/15/06	09/23/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1289-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I22108	N/A	NA	1.0	1	09/22/06	09/22/06	
Sample ID: IPI1289-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I25082	10	10	ND	1	09/25/06	09/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I20101	0.43	0.50	1.7	1	09/20/06	09/20/06	
Alkalinity as CaCO3	EPA 310.1	6I20071	2.0	2.0	180	1	09/20/06	09/20/06	
Ammonia-N (Distilled)	EPA 350.2	6I16057	0.30	0.50	1.1	1	09/16/06	09/16/06	
Hardness (as CaCO3)	SM2340B	6I18075	1.0	1.0	200	1	09/18/06	09/20/06	
Nitrate-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/14/06	
Nitrite-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/14/06	
Nitrate/Nitrite-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/14/06	
Oil & Grease	EPA 413.1	6I16001	0.89	4.7	ND	1	09/16/06	09/16/06	
Sulfate	EPA 300.0	6I15041	2.2	2.5	69	5	09/15/06	09/15/06	
Total Dissolved Solids	SM2540C	6I15073	10	10	400	1	09/15/06	09/15/06	
Total Organic Carbon	EPA 415.1	6I20132	0.50	1.0	18	1	09/20/06	09/20/06	
Total Suspended Solids	EPA 160.2	6I20128	10	10	ND	1	09/20/06	09/20/06	

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1289-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I15115	0.040	1.0	2.9	1	09/15/06	09/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1289-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I15082	N/A	NA	7.37	1	09/15/06	09/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1289-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I15074	N/A	1.0	650	1	09/15/06	09/15/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Z-EFF (IPI1289-01) - Water					
EPA 150.1	1	09/14/2006 08:15	09/14/2006 18:15	09/15/2006 09:25	09/15/2006 10:45
EPA 180.1	2	09/14/2006 08:15	09/14/2006 18:15	09/15/2006 14:00	09/15/2006 15:35
EPA 300.0	2	09/14/2006 08:15	09/14/2006 18:15	09/14/2006 21:00	09/14/2006 22:17
Filtration	1	09/14/2006 08:15	09/14/2006 18:15	09/15/2006 16:50	09/15/2006 16:50

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15062 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15062-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/15/2006 (6I15062-BS1)											
Mercury	8.40	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)											
						Source: IPI1162-01					
Mercury	8.20	0.20	0.15	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)											
						Source: IPI1162-01					
Mercury	8.24	0.20	0.15	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6I18070 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18070-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18070-BS1)											
Antimony	78.2	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.0	1.0	0.025	ug/l	80.0		98	85-115			
Lead	79.6	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	78.8	2.0	0.30	ug/l	80.0		98	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	80.0	1.0	0.15	ug/l	80.0		100	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I18070 Extracted: 09/18/06											
Matrix Spike Analyzed: 09/18/2006 (6I18070-MS1)						Source: IPI1353-01					
Antimony	79.4	2.0	0.050	ug/l	80.0	0.053	99	70-130			
Cadmium	73.3	1.0	0.025	ug/l	80.0	ND	92	70-130			
Lead	75.8	1.0	0.040	ug/l	80.0	1.1	93	70-130			
Selenium	75.2	2.0	0.30	ug/l	80.0	ND	94	70-130			
Silver	72.3	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Analyzed: 09/18/2006 (6I18070-MS2)						Source: IPI1353-02					
Antimony	79.4	2.0	0.050	ug/l	80.0	ND	99	70-130			
Cadmium	73.0	1.0	0.025	ug/l	80.0	ND	91	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.8	94	70-130			
Selenium	75.4	2.0	0.30	ug/l	80.0	ND	94	70-130			
Silver	72.5	1.0	0.025	ug/l	80.0	ND	91	70-130			
Thallium	75.1	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 09/18/2006 (6I18070-MSD1)						Source: IPI1353-01					
Antimony	79.3	2.0	0.050	ug/l	80.0	0.053	99	70-130	0	20	
Cadmium	73.6	1.0	0.025	ug/l	80.0	ND	92	70-130	0	20	
Lead	75.6	1.0	0.040	ug/l	80.0	1.1	93	70-130	0	20	
Selenium	77.2	2.0	0.30	ug/l	80.0	ND	96	70-130	3	20	
Silver	72.3	1.0	0.025	ug/l	80.0	ND	90	70-130	0	20	
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130	0	20	
Batch: 6I18075 Extracted: 09/18/06											
Blank Analyzed: 09/20/2006 (6I18075-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I18075 Extracted: 09/18/06											
LCS Analyzed: 09/20/2006 (6I18075-BS1)											
Arsenic	484	5.0	4.4	ug/l	500		97	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	480	5.0	2.0	ug/l	500		96	85-115			
Iron	0.491	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	479	20	7.0	ug/l	500		96	85-115			
Nickel	475	10	2.0	ug/l	500		95	85-115			
Zinc	483	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01											
Arsenic	500	5.0	4.4	ug/l	500	4.7	99	70-130			
Beryllium	493	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	472	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.571	0.040	0.015	mg/l	0.500	0.095	95	70-130			
Manganese	534	20	7.0	ug/l	500	50	97	70-130			
Nickel	465	10	2.0	ug/l	500	ND	93	70-130			
Zinc	478	20	15	ug/l	500	ND	96	70-130			
Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01											
Arsenic	498	5.0	4.4	ug/l	500	4.9	99	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	473	5.0	2.0	ug/l	500	ND	95	70-130			
Iron	0.635	0.040	0.015	mg/l	0.500	0.15	97	70-130			
Manganese	576	20	7.0	ug/l	500	100	95	70-130			
Nickel	467	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	480	20	15	ug/l	500	ND	96	70-130			
Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01											
Arsenic	492	5.0	4.4	ug/l	500	4.7	97	70-130	2	20	
Beryllium	480	2.0	0.90	ug/l	500	ND	96	70-130	3	20	
Chromium	475	5.0	2.0	ug/l	500	ND	95	70-130	1	20	
Iron	0.566	0.040	0.015	mg/l	0.500	0.095	94	70-130	1	20	
Manganese	524	20	7.0	ug/l	500	50	95	70-130	2	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	1	20	
Zinc	475	20	15	ug/l	500	ND	95	70-130	1	20	

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I19133 Extracted: 09/19/06											
Blank Analyzed: 09/20/2006 (6I19133-BLK1)											
Copper	1.73	2.0	0.25	ug/l							J
LCS Analyzed: 09/20/2006 (6I19133-BS1)											
Copper	80.8	2.0	0.25	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 09/20/2006 (6I19133-MS1)											
						Source: IPI1286-01					
Copper	77.1	2.0	0.25	ug/l	80.0	0.82	95	70-130			
Matrix Spike Dup Analyzed: 09/20/2006 (6I19133-MSD1)											
						Source: IPI1286-01					
Copper	75.6	2.0	0.25	ug/l	80.0	0.82	93	70-130	2	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15121 Extracted: 09/15/06											
Blank Analyzed: 09/23/2006 (6I15121-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/23/2006 (6I15121-BS1)											
Arsenic	1040	5.0	4.4	ug/l	1000		104	85-115			
Beryllium	1040	2.0	0.90	ug/l	1000		104	85-115			
Chromium	1020	5.0	2.0	ug/l	1000		102	85-115			
Iron	1.03	0.040	0.015	mg/l	1.00		103	85-115			
Manganese	1030	20	7.0	ug/l	1000		103	85-115			
Nickel	1020	10	2.0	ug/l	1000		102	85-115			
Zinc	1040	20	15	ug/l	1000		104	85-115			
Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01											
Arsenic	1050	5.0	4.4	ug/l	1000	6.3	104	70-130			
Beryllium	1040	2.0	0.90	ug/l	1000	ND	104	70-130			
Chromium	1010	5.0	2.0	ug/l	1000	ND	101	70-130			
Iron	1.04	0.040	0.015	mg/l	1.00	0.032	101	70-130			
Manganese	1060	20	7.0	ug/l	1000	49	101	70-130			
Nickel	993	10	2.0	ug/l	1000	2.3	99	70-130			
Zinc	1030	20	15	ug/l	1000	36	99	70-130			
Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01											
Arsenic	1070	5.0	4.4	ug/l	1000	6.3	106	70-130	2	20	
Beryllium	1060	2.0	0.90	ug/l	1000	ND	106	70-130	2	20	
Chromium	1030	5.0	2.0	ug/l	1000	ND	103	70-130	2	20	
Iron	1.06	0.040	0.015	mg/l	1.00	0.032	103	70-130	2	20	
Manganese	1070	20	7.0	ug/l	1000	49	102	70-130	1	20	
Nickel	1020	10	2.0	ug/l	1000	2.3	102	70-130	3	20	
Zinc	1050	20	15	ug/l	1000	36	101	70-130	2	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI1289

Sampled: 09/14/06
 Received: 09/14/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6I18073 Extracted: 09/18/06										
Blank Analyzed: 09/18/2006 (6I18073-BLK1)										
Antimony	ND	2.0	0.050	ug/l						
Cadmium	ND	1.0	0.025	ug/l						
Copper	0.303	2.0	0.25	ug/l						J
Lead	ND	1.0	0.040	ug/l						
Selenium	ND	2.0	0.30	ug/l						
Silver	ND	1.0	0.025	ug/l						
Thallium	ND	1.0	0.15	ug/l						
LCS Analyzed: 09/18/2006 (6I18073-BS1)										
Antimony	74.5	2.0	0.050	ug/l	80.0		93		85-115	
Cadmium	74.9	1.0	0.025	ug/l	80.0		94		85-115	
Copper	79.0	2.0	0.25	ug/l	80.0		99		85-115	
Lead	80.4	1.0	0.040	ug/l	80.0		100		85-115	
Selenium	77.2	2.0	0.30	ug/l	80.0		96		85-115	
Silver	77.2	1.0	0.025	ug/l	80.0		96		85-115	
Thallium	80.8	1.0	0.15	ug/l	80.0		101		85-115	
Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1) Source: IPI1226-01										
Antimony	74.1	2.0	0.050	ug/l	80.0	0.22	92		70-130	
Cadmium	68.4	1.0	0.025	ug/l	80.0	0.096	85		70-130	
Copper	73.2	2.0	0.25	ug/l	80.0	6.8	83		70-130	
Lead	75.6	1.0	0.040	ug/l	80.0	0.067	94		70-130	
Selenium	76.1	2.0	0.30	ug/l	80.0	6.1	88		70-130	
Silver	69.4	1.0	0.025	ug/l	80.0	ND	87		70-130	
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94		70-130	
Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2) Source: IPI1286-01										
Antimony	76.7	2.0	0.050	ug/l	80.0	1.0	95		70-130	
Cadmium	73.5	1.0	0.025	ug/l	80.0	ND	92		70-130	
Copper	74.3	2.0	0.25	ug/l	80.0	6.1	85		70-130	
Lead	76.3	1.0	0.040	ug/l	80.0	0.093	95		70-130	
Selenium	73.8	2.0	0.30	ug/l	80.0	0.77	91		70-130	
Silver	74.5	1.0	0.025	ug/l	80.0	ND	93		70-130	
Thallium	76.5	1.0	0.15	ug/l	80.0	0.36	95		70-130	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I18073 Extracted: 09/18/06											
Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)						Source: IPI1226-01					
Antimony	75.1	2.0	0.050	ug/l	80.0	0.22	94	70-130	1	20	
Cadmium	69.1	1.0	0.025	ug/l	80.0	0.096	86	70-130	1	20	
Copper	71.7	2.0	0.25	ug/l	80.0	6.8	81	70-130	2	20	
Lead	75.6	1.0	0.040	ug/l	80.0	0.067	94	70-130	0	20	
Selenium	77.3	2.0	0.30	ug/l	80.0	6.1	89	70-130	2	20	
Silver	70.2	1.0	0.025	ug/l	80.0	ND	88	70-130	1	20	
Thallium	74.4	1.0	0.15	ug/l	80.0	ND	93	70-130	1	20	
Batch: 6I18082 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18082-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18082-BS1)											
Mercury	8.42	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)						Source: IPI1321-01					
Mercury	8.28	0.20	0.15	ug/l	8.00	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)						Source: IPI1321-01					
Mercury	8.17	0.20	0.15	ug/l	8.00	ND	102	70-130	1	20	

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Sampled: 09/14/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I14139 Extracted: 09/14/06											
Blank Analyzed: 09/14/2006 (6I14139-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
LCS Analyzed: 09/14/2006 (6I14139-BS1)											
Nitrate-N	1.09	0.15	0.080	mg/l	1.13		96	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13	ND	100	80-120			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52	ND	95	80-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01											
Nitrate-N	1.14	0.15	0.080	mg/l	1.13	ND	101	80-120	1	20	
Nitrite-N	1.46	0.15	0.080	mg/l	1.52	ND	96	80-120	1	20	
Batch: 6I15041 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15041-BLK1)											
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/15/2006 (6I15041-BS1)											
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02											
Sulfate	183	2.5	2.2	mg/l	10.0	180	30	80-120			M-HA

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15041 Extracted: 09/15/06											
Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)						Source: IPI1302-02					
Sulfate	184	2.5	2.2	mg/l	10.0	180	40	80-120	1	20	M-HA
Batch: 6I15073 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15073-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/15/2006 (6I15073-BS1)											
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/15/2006 (6I15073-DUP1)						Source: IPI1076-01					
Total Dissolved Solids	1480	10	10	mg/l		1500			1	10	
Batch: 6I15074 Extracted: 09/15/06											
Duplicate Analyzed: 09/15/2006 (6I15074-DUP1)						Source: IPI1120-01					
Specific Conductance	1820	1.0	N/A	umhos/cm		1800			1	5	
Batch: 6I15082 Extracted: 09/15/06											
Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)						Source: IPI1268-01					
pH	6.87	NA	N/A	pH Units		6.85			0	5	
Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)						Source: IPI1293-01					
pH	7.55	NA	N/A	pH Units		7.54			0	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I15115 Extracted: 09/15/06</u>											
Blank Analyzed: 09/15/2006 (6I15115-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)											
Turbidity	3.33	1.0	0.040	NTU		3.4			2	20	
Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)											
Turbidity	1.63	1.0	0.040	NTU		1.6			2	20	
<u>Batch: 6I16001 Extracted: 09/16/06</u>											
Blank Analyzed: 09/16/2006 (6I16001-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/16/2006 (6I16001-BS1)											
Oil & Grease	17.9	5.0	0.94	mg/l	20.0		90	65-120			M-NRI
LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120	1	20	
<u>Batch: 6I16057 Extracted: 09/16/06</u>											
Blank Analyzed: 09/16/2006 (6I16057-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/16/2006 (6I16057-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I16057 Extracted: 09/16/06</u>											
Matrix Spike Analyzed: 09/16/2006 (6I16057-MS1)						Source: IPI1286-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 09/16/2006 (6I16057-MSD1)						Source: IPI1286-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120	0	15	
<u>Batch: 6I18075 Extracted: 09/18/06</u>											
Blank Analyzed: 09/20/2006 (6I18075-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6I20071 Extracted: 09/20/06</u>											
Duplicate Analyzed: 09/20/2006 (6I20071-DUP1)						Source: IPI1125-01					
Alkalinity as CaCO3	348	2.0	2.0	mg/l		350			1	20	
Reference Analyzed: 09/20/2006 (6I20071-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			
<u>Batch: 6I20101 Extracted: 09/20/06</u>											
Blank Analyzed: 09/20/2006 (6I20101-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/20/2006 (6I20101-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

TestAmerica - Irvine, CA
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I20101 Extracted: 09/20/06											
LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1)											
						Source: IPI1210-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1)											
						Source: IPI1210-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	6	15	
Batch: 6I20128 Extracted: 09/20/06											
Blank Analyzed: 09/20/2006 (6I20128-BLK2)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/20/2006 (6I20128-BS2)											
Total Suspended Solids	1040	10	10	mg/l	1000		104	85-115			
Duplicate Analyzed: 09/20/2006 (6I20128-DUP2)											
						Source: IPI1285-02					
Total Suspended Solids	2270	10	10	mg/l		2100			8	10	
Batch: 6I20132 Extracted: 09/20/06											
Blank Analyzed: 09/20/2006 (6I20132-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/20/2006 (6I20132-BS1)											
Total Organic Carbon	9.91	1.0	0.25	mg/l	10.0		99	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I20132 Extracted: 09/20/06</u>											
Matrix Spike Analyzed: 09/20/2006 (6I20132-MS1)						Source: IPI1372-02					
Total Organic Carbon	5.71	1.0	0.25	mg/l	5.00	1.0	94	80-120			
Matrix Spike Dup Analyzed: 09/20/2006 (6I20132-MSD1)						Source: IPI1372-02					
Total Organic Carbon	5.67	1.0	0.25	mg/l	5.00	1.0	93	80-120	1	20	
<u>Batch: 6I22108 Extracted: 09/22/06</u>											
Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)						Source: IPI0964-02					
Density	0.999	NA	N/A	g/cc		1.0			0	20	

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
1613A/1613B	Water		
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Alta Analytical NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPI1289-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin
 Project Manager

191 DZ9

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**
 Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: **Brynna G**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn	TCDD (and all congeners)	Field readings: Temp = 69 pH = 7.0	Comments
Z-EFF	W	Poly-1L	1	9/14/06 08:15	HNO3	1	X	X										
Z-EFF	W	Poly-1L	1		None	2		X										
Z-EFF	W	VOAs	2		HCl	3A, 3B			X									
Z-EFF	W	1L Amber	2		HCl	4A, 4B				X								
Z-EFF	W	Poly-500 ml	1		H2SO4	5					X							
Z-EFF	W	Poly-500 ml	1		None	6						X						
Z-EFF	W	Poly-500 ml	2		None	7A, 7B							X					
Z-EFF	W	Poly-500 ml	1		H2SO4	8								X				
Z-EFF	W	Poly-1L	1		None	9									X			
Z-EFF	W	1L Amber	2		None	10A, 10B										X		

Relinquished By: *[Signature]* Date/Time: 9-14-06 15:00

Received By: *[Signature]* Date/Time: 9-14-06 15:00

Relinquished By: *[Signature]* Date/Time: 9-14-06 18:15

Received By: *[Signature]* Date/Time: 9-14-06 18:15

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____

Sample Integrity: (Check) On Ice: _____
 Intact _____

DNZ100



September 22, 2006

Alta Project I.D.: 28114

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on September 16, 2006 under your Project Name "IPI1289". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 9/16/2006

Alta Lab. ID

Client Sample ID

28114-001

IPI1289-01

SECTION II

Method Blank					EPA Method 1613				
Matrix:	Aqueous	QC Batch No.:	8381	Lab Sample:	0-MB001	Date Analyzed DB-5:	20-Sep-06	Date Analyzed DB-225:	NA
Sample Size:	1.00 L	Date Extracted:	18-Sep-06						
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers	
2,3,7,8-TCDD	ND	0.00000120			IS 13C-2,3,7,8-TCDD	80.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.00000185			13C-1,2,3,7,8-PeCDD	71.4	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.00000114			13C-1,2,3,4,7,8-HxCDD	83.4	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.00000119			13C-1,2,3,6,7,8-HxCDD	82.7	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.00000113			13C-1,2,3,4,6,7,8-HpCDD	77.1	23 - 140		
1,2,3,4,6,7,8-HpCDD	ND	0.00000251			13C-OCDD	70.2	17 - 157		
OCDD	ND	0.00000489			13C-2,3,7,8-TCDF	80.1	24 - 169		
2,3,7,8-TCDF	ND	0.00000133			13C-1,2,3,7,8-PeCDF	72.7	24 - 185		
1,2,3,7,8-PeCDF	ND	0.00000197			13C-2,3,4,7,8-PeCDF	65.5	21 - 178		
2,3,4,7,8-PeCDF	ND	0.00000201			13C-1,2,3,4,7,8-HxCDF	89.4	26 - 152		
1,2,3,4,7,8-HxCDF	ND	0.000000613			13C-1,2,3,6,7,8-HxCDF	85.1	26 - 123		
1,2,3,6,7,8-HxCDF	ND	0.000000579			13C-2,3,4,6,7,8-HxCDF	80.1	28 - 136		
2,3,4,6,7,8-HxCDF	ND	0.000000710			13C-1,2,3,7,8,9-HxCDF	63.8	29 - 147		
1,2,3,7,8,9-HxCDF	ND	0.00000163			13C-1,2,3,4,6,7,8-HpCDF	70.3	28 - 143		
1,2,3,4,6,7,8-HpCDF	ND	0.00000121			13C-1,2,3,4,7,8,9-HpCDF	58.0	26 - 138		
1,2,3,4,7,8,9-HpCDF	ND	0.00000160			13C-OCDF	56.7	17 - 157		
OCDF	ND	0.00000380			CRS 37Cl-2,3,7,8-TCDD	81.7	35 - 197		
Totals					Footnotes				
Total TCDD	ND	0.00000120			a. Sample specific estimated detection limit.				
Total PeCDD	ND	0.00000432			b. Estimated maximum possible concentration.				
Total HxCDD	ND	0.00000116			c. Method detection limit.				
Total HpCDD	ND	0.00000251			d. Lower control limit - upper control limit.				
Total TCDF	ND	0.00000133							
Total PeCDF	ND	0.00000342							
Total HxCDF	ND	0.000000802							
Total HpCDF	ND	0.00000137							

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 15:01

OPR Results				EPA Method 1613			
Matrix:	Aqueous	QC Batch No.:	8381	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	18-Sep-06	Date Analyzed DB-5:	20-Sep-06	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	
2,3,7,8-TCDD	10.0	9.99	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	72.8	25 - 164	
1,2,3,7,8-PeCDD	50.0	48.5	35 - 71	13C-1,2,3,7,8-PeCDD	62.1	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	46.7	35 - 82	13C-1,2,3,4,7,8-HxCDD	79.6	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	48.1	38 - 67	13C-1,2,3,6,7,8-HxCDD	76.6	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	47.4	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	76.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	51.3	35 - 70	13C-OCDD	68.9	17 - 157	
OCDD	100	99.3	78 - 144	13C-2,3,7,8-TCDF	76.1	24 - 169	
2,3,7,8-TCDF	10.0	9.77	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	62.3	24 - 185	
1,2,3,7,8-PeCDF	50.0	51.9	40 - 67	13C-2,3,4,7,8-PeCDF	59.0	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.8	34 - 80	13C-1,2,3,4,7,8-HxCDF	77.8	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	51.8	36 - 67	13C-1,2,3,6,7,8-HxCDF	75.4	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	50.6	42 - 65	13C-2,3,4,6,7,8-HxCDF	76.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	50.1	35 - 78	13C-1,2,3,7,8,9-HxCDF	54.3	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.3	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	64.1	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	51.1	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	58.8	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	52.3	39 - 69	13C-OCDF	58.1	17 - 157	
OCDF	100	105	63 - 170	CRS 37Cl-2,3,7,8-TCDD	81.1	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 15:01

Sample ID: IPI1289-01					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	Test America-Irvine		Matrix:	Aqueous	Lab Sample:	28114-001	Date Received:	16-Sep-06
Project:	IPI1289		Sample Size:	0.989 L	QC Batch No.:	8381	Date Extracted:	18-Sep-06
Date Collected:	14-Sep-06				Date Analyzed DB-5:	21-Sep-06	Date Analyzed DB-225:	NA
Time Collected:	0815							
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000129			IS 13C-2,3,7,8-TCDD	68.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000174			13C-1,2,3,7,8-PeCDD	55.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000209			13C-1,2,3,4,7,8-HxCDD	56.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000211			13C-1,2,3,6,7,8-HxCDD	60.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000202			13C-1,2,3,4,6,7,8-HpCDD	71.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.00000557			J	13C-OCDD	67.9	17 - 157	
OCDD	0.0000486			J	13C-2,3,7,8-TCDF	66.3	24 - 169	
2,3,7,8-TCDF	ND	0.00000129			13C-1,2,3,7,8-PeCDF	65.1	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000152			13C-2,3,4,7,8-PeCDF	50.6	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000174			13C-1,2,3,4,7,8-HxCDF	70.9	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000587			13C-1,2,3,6,7,8-HxCDF	59.9	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000617			13C-2,3,4,6,7,8-HxCDF	56.7	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000780			13C-1,2,3,7,8,9-HxCDF	51.5	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000173			13C-1,2,3,4,6,7,8-HpCDF	62.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000180			13C-1,2,3,4,7,8,9-HpCDF	58.7	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000117			13C-OCDF	52.5	17 - 157	
OCDF	ND	0.00000710			CRS 37Cl-2,3,7,8-TCDD	80.0	35 - 197	
Totals					Footnotes			
Total TCDD	ND	0.00000129			a. Sample specific estimated detection limit.			
Total PeCDD	ND	0.00000496			b. Estimated maximum possible concentration.			
Total HxCDD	ND		0.000000777		c. Method detection limit.			
Total HpCDD	0.00000557				d. Lower control limit - upper control limit.			
Total TCDF	ND	0.00000216						
Total PeCDF	ND	0.00000297						
Total HxCDF	ND	0.000000855						
Total HpCDF	ND	0.00000448						

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 15:01

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical interference
J	The amount detected is below the Lower Calibration Limit of the instrument.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated Detection Limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that corresponds 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
State of Alaska, DEC	CA413-02
State of Arizona	AZ0639
State of Arkansas, DEQ	05-013-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	
State of Connecticut	PH-0182
State of Florida, DEP	E87777
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA050001
State of Louisiana, DEQ	01977
State of Maine	CA0413
State of Michigan	81178087
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	
State of Nevada	CA413
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-002
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	02996
State of Texas	TX247-2005A
U.S. Army Corps of Engineers	
State of Utah	9169330940
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPI1289 28114, 0.1PC

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 933-1640
Fax: (916) 673-0106

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPI1289-01 1613-Dioxin-HR-Alta	Water 09/21/06 08:15	Sampled: 09/14/06 08:15 J flags, 17 cngnrs, no TEQ, ug/L, sub=Alta, Boeing EDD

Containers Supplied:

1 L Amber (IPI1289-01M)
1 L Amber (IPI1289-01N)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No N/A
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 0.1PC

~~Released By~~ 9/15/06 Michele Chamberlin 9/16/06 0830
Released By _____ Date _____ Time _____ Received By _____ Date _____ Time _____

Released By _____ Date _____ Time _____ Received By _____ Date _____ Time _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 28114 TAT Standard

Samples Arrival:	Date/Time <u>9/16/06 0830</u>	Initials: <u>MT</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>9/16/06 0936</u>	Initials: <u>FEB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>C-3</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> Cal
		<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
	<input type="radio"/> Other		
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
		<input type="radio"/> None	
Temp °C <u>0.1°</u>	Time: <u>0840</u>	Thermometer ID: DT-20	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
<input checked="" type="radio"/> Airbill			
Trk # <u>7911 2401 9182</u>	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Na ₂ S ₂ O ₃ Preservation Documented?			✓
	COC	Sample Container	<input checked="" type="radio"/> None
Shipping Container	Alta <input checked="" type="radio"/> Client	Retain	<input checked="" type="radio"/> Return
			<input type="radio"/> Dispose

Comments:

EXTRACTION INFORMATION

PROCESS SHEET

Project No.-AR: 28114-1 of 1

Prep Due: 9/27/2006

Project Due: 10/7/2006

Hold Due: 9/14/2007

TAT: 21

Client: Test America-Irvine(TEACA01B)

Client Manager: Martha M. Maier

Method: EPA Method 1613 | PCDD/F (Tetra - Octa)

8381

Split Type:

Matrix: Aqueous

LabID	Recon	Client-ID	Description	Date Received	SLoc	Shelf
001	<input checked="" type="checkbox"/>	IPI1289-01		9/16/2006	WR-2	C-3

Instructions:

ugL; no TEQ

Report Options

Report Level:

TEQ Type: :

EDD Type:

Report Group: Dioxins NoMDL

Samples Reconciled By:

TEH 9.17.06

Vial Box ID:

Drag

Project 28114

Aqueous Sample Size Determination



Alfa Analytical Laboratory
HRMS Services
El Dorado Hills, CA 95762

Project: 28114-1

Sample ID	Container Weight (g)		Sample Wt (g)
	Full	Empty	
1	1486.22	497.42	988.60

Procedure:

- Tare the balance.
- Record weight of bottle/cap and sample.
- If all of the sample is used, drain overnight.
- Tare the balance.
- Record weight of empty bottle/cap.
- Enter Sample Weight in HALs and on the Extraction Sheet*.

* Record in 'Liters', rounded to 3 decimal places; assumes density of 1 g/mL

Notes:

Project: 28114

Extraction Set: 8381

Chemist:

T. HORNER 9/18/06

Method(s): EPA Method 1613 | 2,3,7,8s Only

C	ALTA Sample ID	G Eqv	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"/>	0_8381_MB001	NA	1.00	TEH 9/18/06	TEH 9/19/06	NA	TEH 9/19/06	TEH 9/19/06	TEH 9/19/06	TEH FEB 9/19/06
<input type="checkbox"/>	0_8381_OPR001	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	28114_8381_001	↓	0.989	↓	↓	↓	↓	↓	↓	↓

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP.: SEFUN SOX	Check Out:
PCDD/F <u>10pl/060110A</u> (V2)	PCDD/F <u>10pl/060110B</u> (V4)	PCDD/F <u>10pl/060110C</u> (V3)	PCDD/F <u>10pl/060110D</u> (V3)	9/18 Start: 1230 9/19 Stop: 0430	SDS	TEH 9/18/06
PCB	PCB	PCB	PCB		SOLV: TOK	Check-In:
PAH	PAH	PAH	PAH		Other: SPE	Empty 9/18/06
					Final Volume(s): <u>20ml</u> CH	

Comments:

Project 28114 Page 16 of 234

CALIBRATION DATA

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-1

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

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	0.79	0.65-0.89	y	9.37	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	45.4	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	47.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.8	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.9	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	49.1	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	93.2	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.51	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	48.6	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	48.4	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	48.4	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	47.2	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.3	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.8	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: miDate: 9/20/06

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)	
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	99.0	82.0 - 121.0 85.0 - 117.0 (5)	(1) See Table 8, Method 1613, for m/z specifications.
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	92.4	62.0 - 160.0	
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	100	85.0 - 117.0	(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	111	85.0 - 118.0	
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	113	72.0 - 138.0	(3) Contract-required concentration range, as specified in Table 6, Method 1613.
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	235	96.0 - 415.0	(4) No ion abundance ratio; report concentration found.
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	110	71.0 - 140.0 76.0 - 131.0 (5)	(5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only.
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	102	76.0 - 130.0	
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	97.6	77.0 - 130.0	
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	111	76.0 - 131.0	
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	98.9	70.0 - 143.0	
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	99.4	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/M+2	0.45	0.37-0.51	y	109	78.0 - 129.0	
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	111	77.0 - 129.0	
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	216	96.0 - 415.0	

CLEANUP STANDARD (4)

37C1-2,3,7,8-TCDD 9.32 7.9 - 12.7
8.3 - 12.1 (5)

Analyst: MS

Date: 9/20/06

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-5 Initial Calibration Date: 3/22/06

RT Window Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

DB-5 IS Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

DB_225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:13	1,3,6,8-TCDF (F)	20:07
1,2,8,9-TCDD (L)	27:25	1,2,8,9-TCDF (L)	27:35
1,2,4,7,9-PeCDD (F)	29:12	1,3,4,6,8-PeCDF (F)	27:31
1,2,3,8,9-PeCDD (L)	31:49	1,2,3,8,9-PeCDF (L)	32:04
1,2,4,6,7,9-HxCDD (F)	33:16	1,2,3,4,6,8-HxCDF (F)	32:43
1,2,3,7,8,9-HxCDD (L)	35:09	1,2,3,7,8,9-HxCDF (L)	35:31
1,2,3,4,6,7,9-HpCDD (F)	37:37	1,2,3,4,6,7,8-HpCDF (F)	37:14
1,2,3,4,6,7,8-HpCDD (L)	38:40	1,2,3,4,7,8,9-HpCDF (L)	39:15

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5).

=====

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: INDate: 9/20/06

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT
	REFERENCE	RRT	QC LIMITS (1)
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	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-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.027	0.976-1.043
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.028	0.989-1.052
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.173	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.211	1.011-1.526
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.222	1.000-1.567

Analyst: ms

Date: 9/20/06

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

Compounds Using 13C-123789-HxCDD as Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT
	REFERENCE	RRT	QC LIMITS (1)
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	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.009	1.000-1.019
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-1,2,3,7,8,9-HxCDD	0.964	0.944-0.970
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.968	0.949-0.975
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.984	0.959-1.021
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDD	1.011	0.977-1.047
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.989	0.977-1.000
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.992	0.981-1.003
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.060	1.043-1.085
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,7,8,9-HxCDD	1.100	1.086-1.110
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.117	1.057-1.151
13C-OCDD	13C-1,2,3,7,8,9-HxCDD	1.191	1.032-1.311
13C-OCDF	13C-1,2,3,7,8,9-HxCDD	1.197	1.032-1.311

Analyst: MS

Date: 9/20/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-1

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC.
						RANGE (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	9.37	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	45.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	47.7	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.8	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.9	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	49.1	40.0 - 60.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	93.2	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.51	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.3	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	48.6	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	48.4	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	48.4	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	47.2	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.6	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.8	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.3	40.0 - 60.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.8	80.0 - 120

Analyst: msDate: 9/20/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	99.0	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	92.4	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	100	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	111	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	113	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	235	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	110	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	102	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	97.6	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	111	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	98.9	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	99.4	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	102	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	109	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	111	70.0 - 130
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	216	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.32	7.00 - 13.0

Analyst: msDate: 9/20/06

Client ID: 1613 CS3 060110H
Lab ID: ST060920C2-1

Filename: 060920C2
GC Column ID: db-5

S:1 Acq:20-SEP-06 15:15:02
Ical: 1613VG5-3-22-06 wt/vol: 1.000

ConCal: ST060920C2-1
EndCAL: ST060920C2-2

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	5.49e+06	0.79 y	1.08	26:26	9.3694			* 2.5	*
1,2,3,7,8-PeCDD	2.26e+07	0.62 y	1.03	31:26	45.386			* 2.5	*
1,2,3,4,7,8-HxCDD	1.85e+07	1.22 y	1.13	34:44	47.733			* 2.5	*
1,2,3,6,7,8-HxCDD	2.14e+07	1.23 y	1.03	34:51	43.765			* 2.5	*
1,2,3,7,8,9-HxCDD	2.00e+07	1.23 y	1.12	35:09	43.917			* 2.5	*
1,2,3,4,6,7,8-HpCDD	1.97e+07	1.05 y	1.02	38:39	49.121			* 2.5	*
OCDD	3.40e+07	0.89 y	1.06	41:51	93.250			* 2.5	*
2,3,7,8-TCDF	7.22e+06	0.76 y	1.06	25:31	9.5148			* 2.5	*
1,2,3,7,8-PeCDF	3.50e+07	1.55 y	1.01	30:09	49.274			* 2.5	*
2,3,4,7,8-PeCDF	3.35e+07	1.58 y	1.02	31:08	48.551			* 2.5	*
1,2,3,4,7,8-HxCDF	2.90e+07	1.21 y	1.15	33:53	48.386			* 2.5	*
1,2,3,6,7,8-HxCDF	3.14e+07	1.22 y	1.14	34:00	48.378			* 2.5	*
2,3,4,6,7,8-HxCDF	2.85e+07	1.21 y	1.17	34:36	47.177			* 2.5	*
1,2,3,7,8,9-HxCDF	2.43e+07	1.19 y	1.10	35:31	48.599			* 2.5	*
1,2,3,4,6,7,8-HpCDF	2.67e+07	1.03 y	1.31	37:14	48.759			* 2.5	*
1,2,3,4,7,8,9-HpCDF	2.25e+07	1.02 y	1.33	39:15	48.273			* 2.5	*
OCDF	3.82e+07	0.90 y	0.91	42:03	99.847			* 2.5	*

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	51.814	52.279	*	*	*
Total Penta-Dioxins	136.21	136.60	*	*	*
Total Hexa-Dioxins	187.41	188.23	*	*	*
Total Hepta-Dioxins	97.872	98.813	*	*	*
Total Tetra-Furans	31.628	32.078	*	*	*
Total Penta-Furans	185.47	186.67	*	*	*
Total Hexa-Furans	245.23	247.32	*	*	*
Total Hepta-Furans	97.436	98.202	*	*	*

IS	13C-2,3,7,8-TCDD	5.42e+07	0.78 y	1.09	26:25	98.980
IS	13C-1,2,3,7,8-PeCDD	4.84e+07	0.62 y	1.04	31:25	92.393
IS	13C-1,2,3,4,7,8-HxCDD	3.42e+07	1.23 y	0.83	34:44	100.32
IS	13C-1,2,3,6,7,8-HxCDD	4.74e+07	1.25 y	1.04	34:50	110.78
IS	13C-1,2,3,4,6,7,8-HpCDD	3.95e+07	1.06 y	0.85	38:39	112.88
IS	13C-OCDD	6.91e+07	0.89 y	0.71	41:50	235.45
IS	13C-2,3,7,8-TCDF	7.14e+07	0.79 y	0.96	25:30	110.02
IS	13C-1,2,3,7,8-PeCDF	7.04e+07	1.58 y	1.02	30:08	102.23
IS	13C-2,3,4,7,8-PeCDF	6.74e+07	1.58 y	1.02	31:07	97.609
IS	13C-1,2,3,4,7,8-HxCDF	5.24e+07	0.52 y	1.14	33:52	111.18
IS	13C-1,2,3,6,7,8-HxCDF	5.69e+07	0.52 y	1.40	33:60	98.914
IS	13C-2,3,4,6,7,8-HxCDF	5.16e+07	0.52 y	1.26	34:35	99.387
IS	13C-1,2,3,7,8,9-HxCDF	4.57e+07	0.50 y	1.08	35:30	102.47
IS	13C-1,2,3,4,6,7,8-HpCDF	4.18e+07	0.45 y	0.93	37:13	108.64
IS	13C-1,2,3,4,7,8,9-HpCDF	3.51e+07	0.45 y	0.77	39:14	111.35
IS	13C-OCDF	8.40e+07	0.90 y	0.94	42:03	216.24

Rec Qual

99.0	
92.4	
100	
111	
113	
118	
110	
102	
97.6	
111	
98.9	
99.4	
102	
109	
111	
108	

C/Up	37C1-2,3,7,8-TCDD	3.62e+06		0.77	26:25	9.3191
RS/RT	13C-1,2,3,4-TCDD	5.02e+07	0.80 y	1.00	25:42	100.00
RS	13C-1,2,3,4-TCDF	6.77e+07	0.80 y	1.00	23:56	100.00
RS/RT	13C-1,2,3,7,8,9-HxCDD	4.11e+07	1.26 y	1.00	35:08	100.00

Integrations Reviewed
by _____ by _____
Analyst: MS Analyst: _____
Date: 9/20/06 Date: _____

Alta Analytical Laboratory - Injection Log Run file: 060920C2 Instrument ID: VG-5 GC Column ID: db-5

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
060920C2	1	ST060920C2-1	MAS	20-SEP-06	15:15:02	ST060920C2-1	ST060920C2-2
060920C2	2	0_8381_OPR001	MAS	20-SEP-06	16:04:31	ST060920C2-1	ST060920C2-2
060920C2	3	0_8382_OPR001	MAS	20-SEP-06	16:54:06	ST060920C2-1	ST060920C2-2
060920C2	4	SOLVENT BLANK	MAS	20-SEP-06	17:43:41	ST060920C2-1	ST060920C2-2
060920C2	5	0_8381_MB001	MAS	20-SEP-06	18:33:15	ST060920C2-1	ST060920C2-2
060920C2	6	0_8382_MB001	MAS	20-SEP-06	19:22:48	ST060920C2-1	ST060920C2-2
060920C2	7	28101_8381_001	MAS	20-SEP-06	20:12:26	ST060920C2-1	ST060920C2-2
060920C2	8	28101_8381_002	MAS	20-SEP-06	21:02:04	ST060920C2-1	ST060920C2-2
060920C2	9	28110_8381_001	MAS	20-SEP-06	21:51:37	ST060920C2-1	ST060920C2-2
060920C2	10	28111_8381_001	MAS	20-SEP-06	22:41:10	ST060920C2-1	ST060920C2-2
060920C2	11	28112_8381_001	MAS	20-SEP-06	23:30:43	ST060920C2-1	ST060920C2-2
060920C2	12	28113_8381_001	MAS	21-SEP-06	00:20:15	ST060920C2-1	ST060920C2-2
060920C2	13	28114_8381_001	MAS	21-SEP-06	01:09:54	ST060920C2-1	ST060920C2-2
060920C2	14	28074_8382_001	MAS	21-SEP-06	01:59:27	ST060920C2-1	ST060920C2-2
060920C2	15	SOLVENT BLANK	MAS	21-SEP-06	02:48:56	ST060920C2-1	ST060920C2-2
060920C2	16	ST060920C2-2	MAS	21-SEP-06	03:38:30	ST060920C2-1	ST060920C2-2

CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST060920C2-1

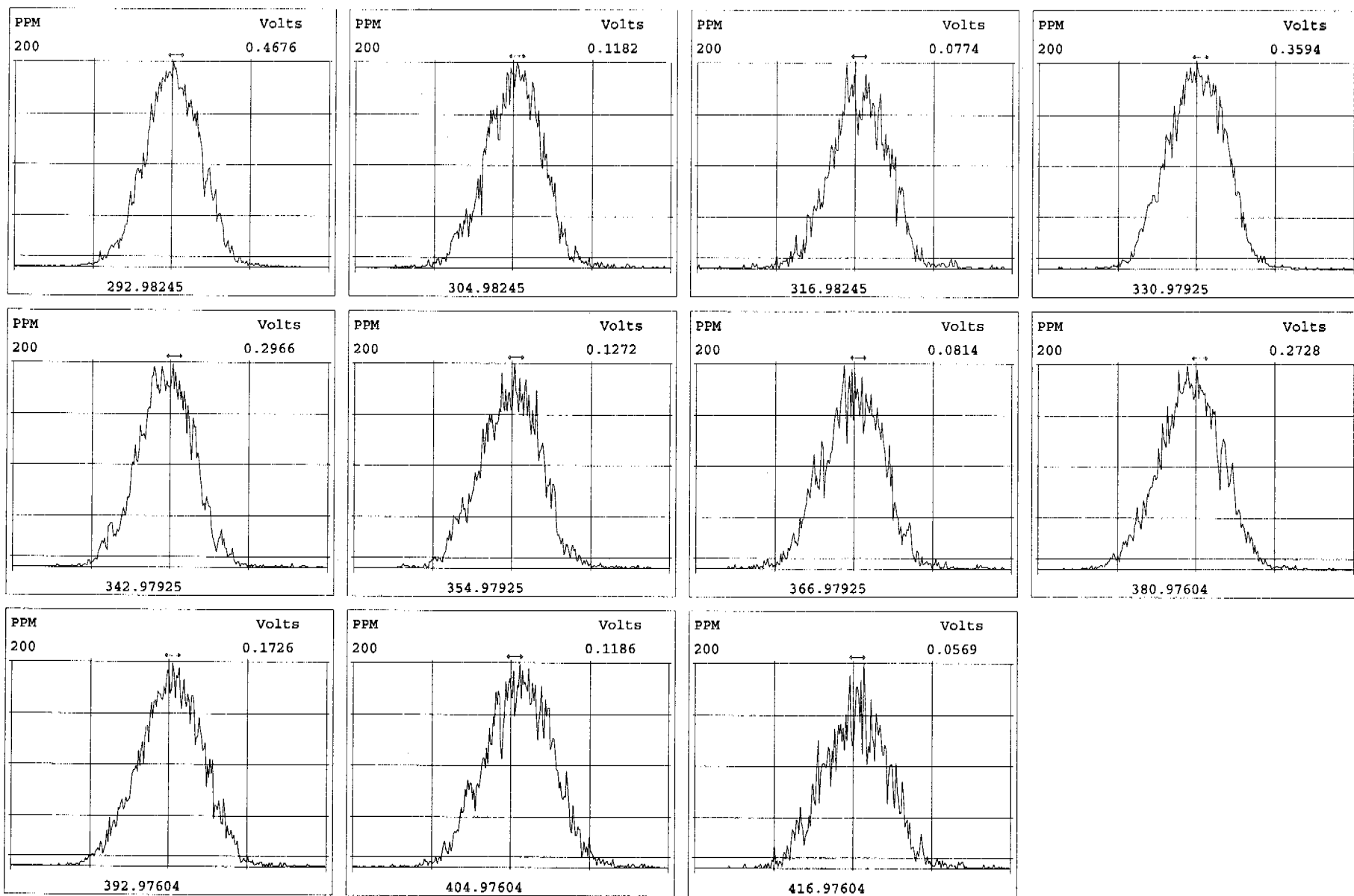
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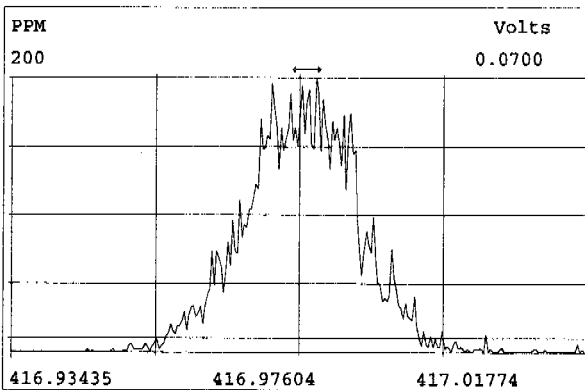
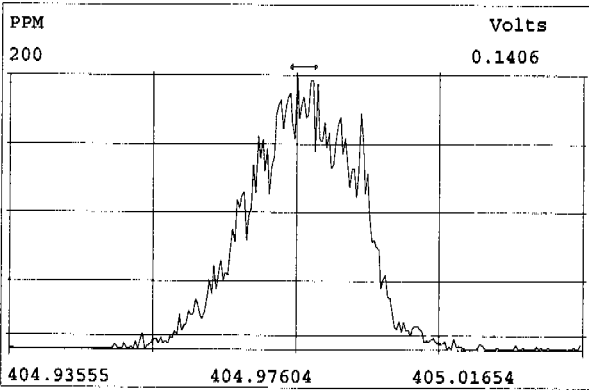
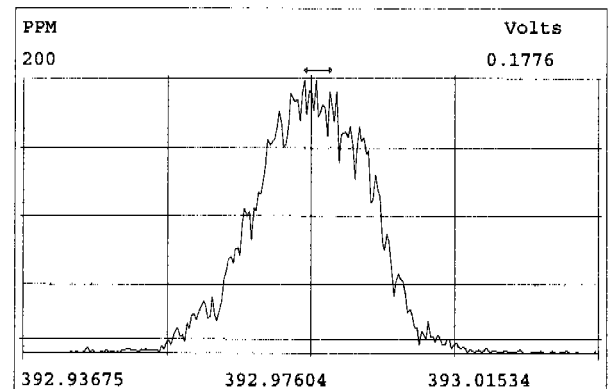
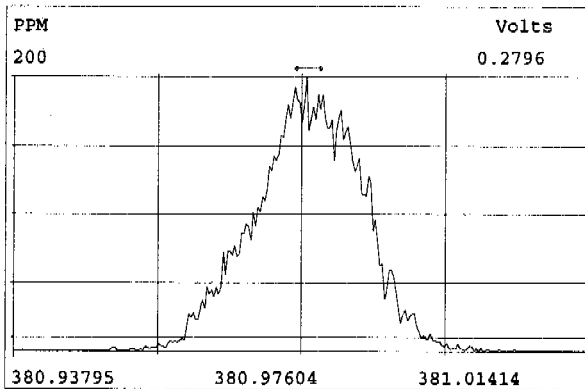
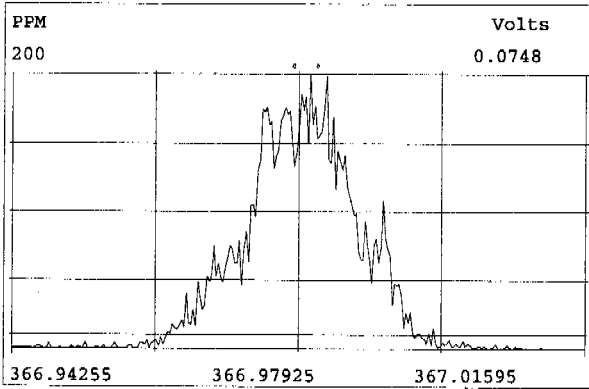
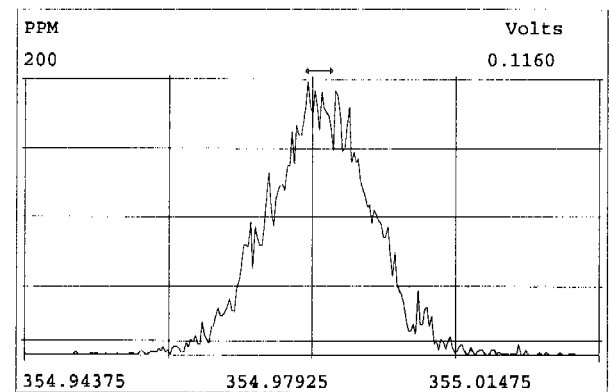
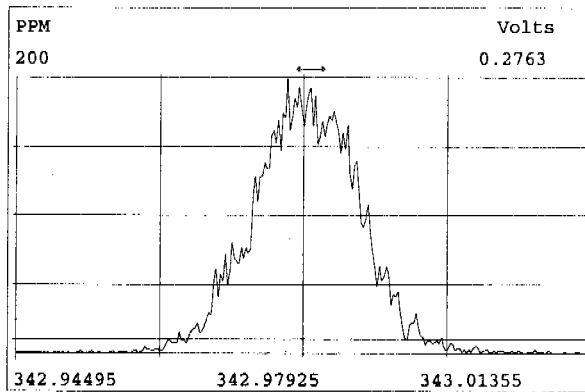
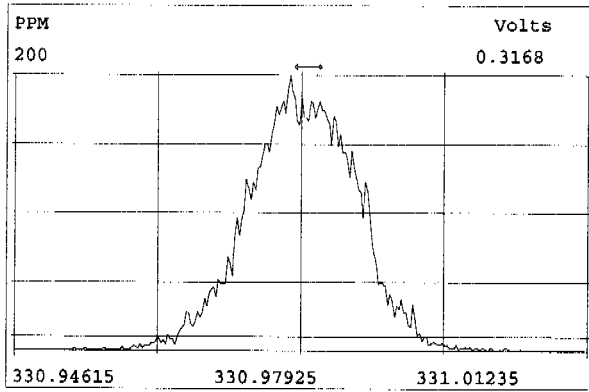
	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mass resolution > 10,000?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentration within range?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>TCDD/TCDF</u> valleys < 25%?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Manual integrations included?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8280 CS1 Ending Standard		
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-Ratios within limits		<input type="checkbox"/> NA
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-S/N > 2.5:1		<input type="checkbox"/> 1
Run Log:			-CS1 within 12-hour clock		<input type="checkbox"/> 6
-Standards named correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input type="checkbox"/> n			

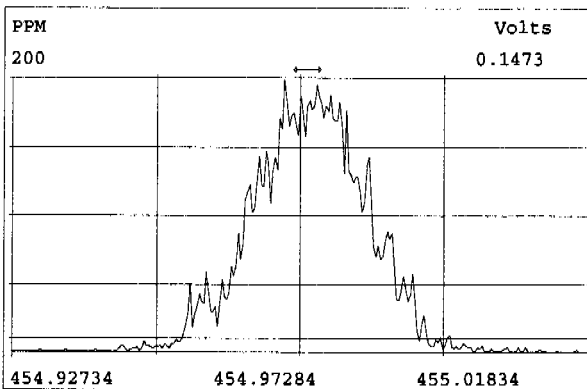
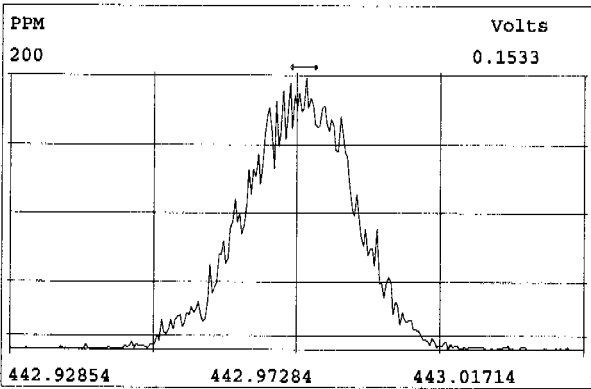
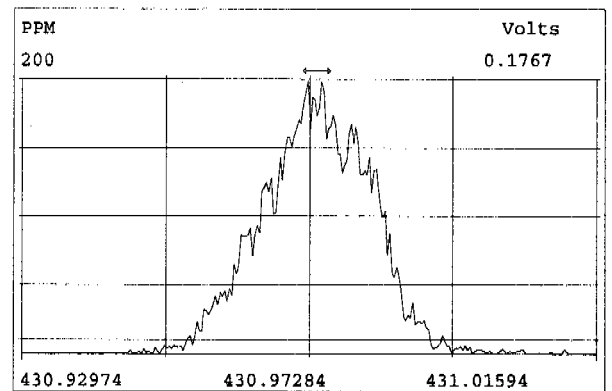
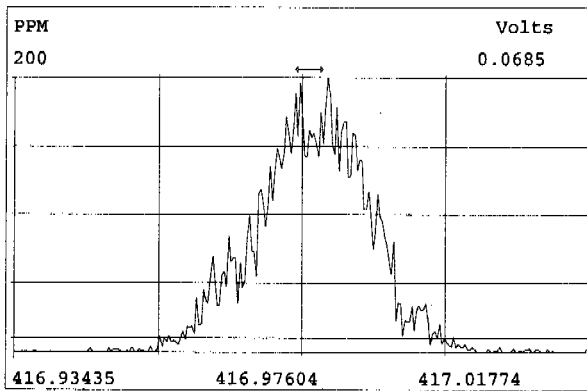
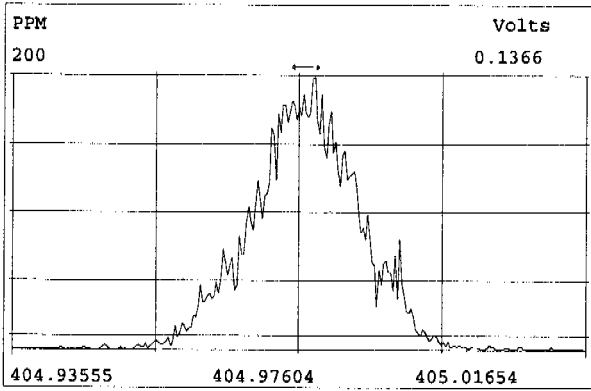
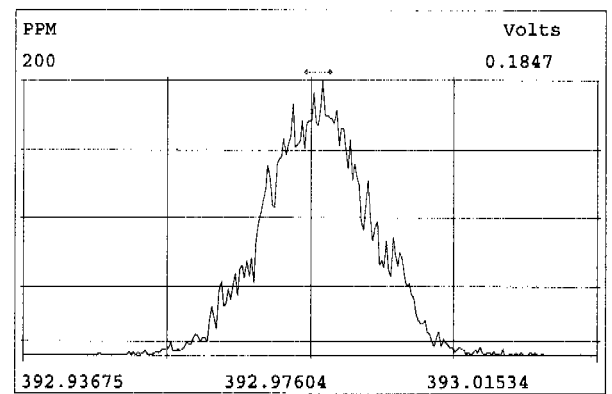
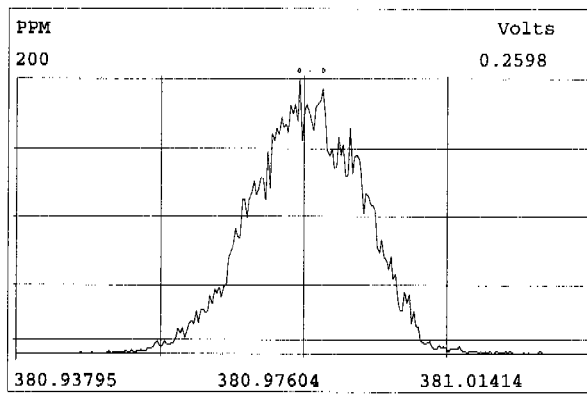
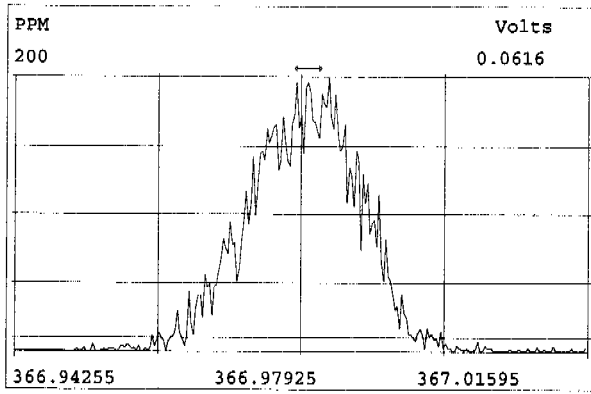
Comments:

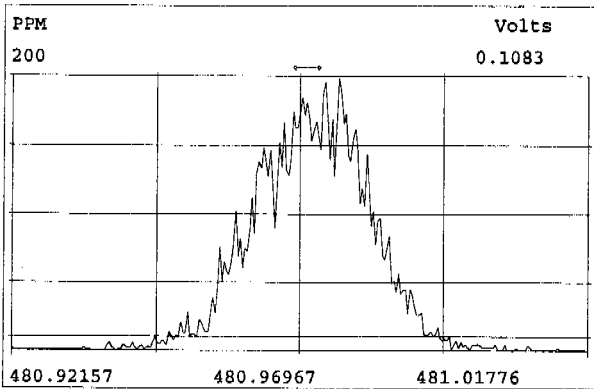
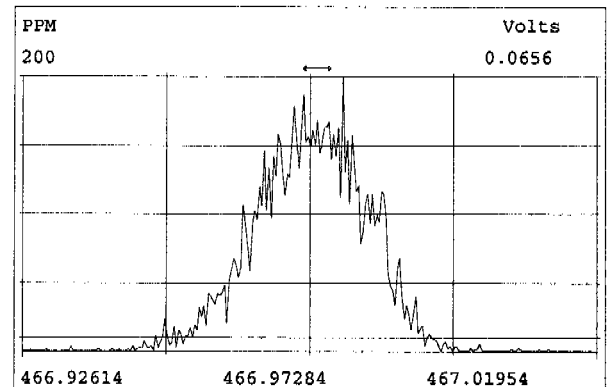
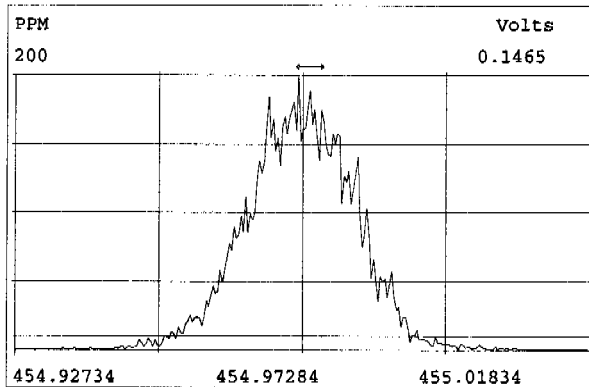
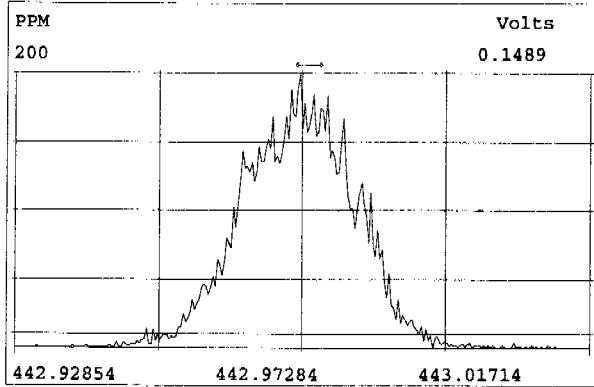
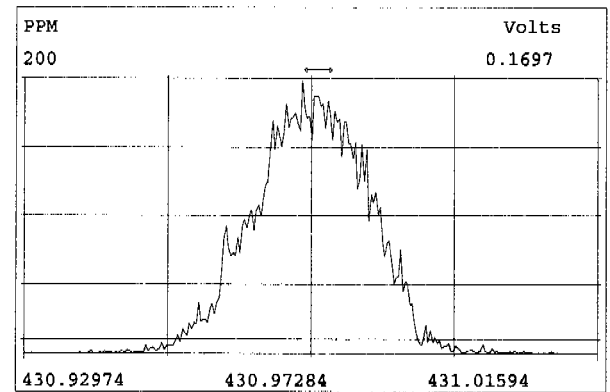
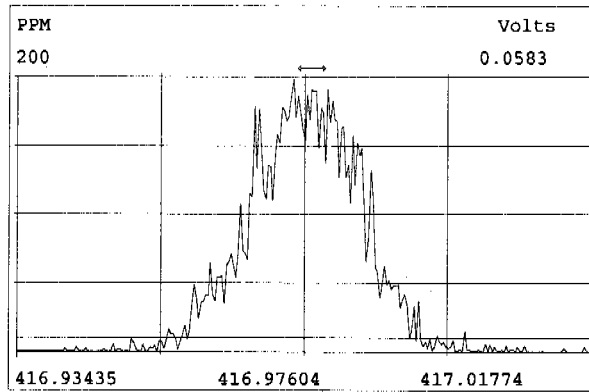
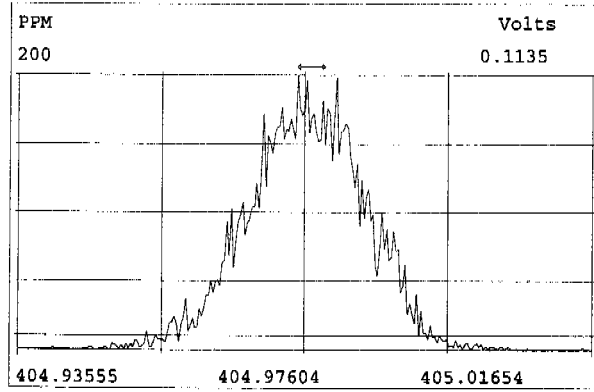
Reviewed by: J 9/25/06
 Initials & Date

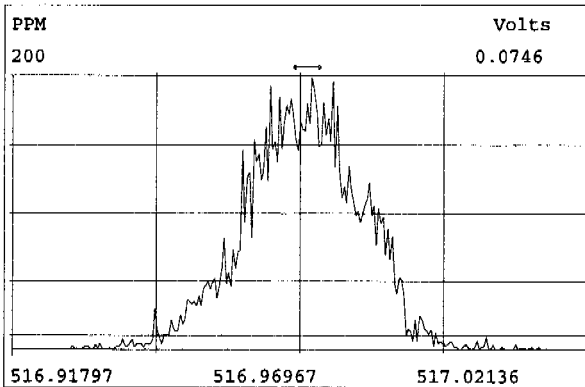
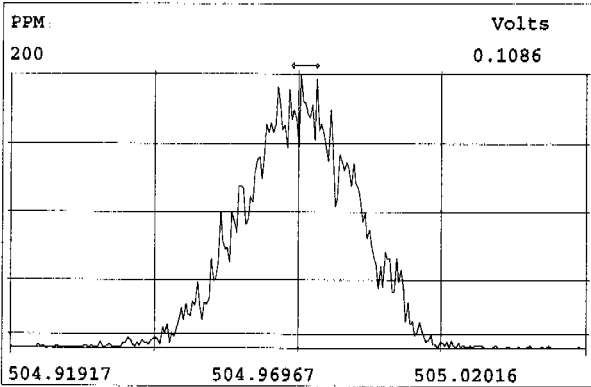
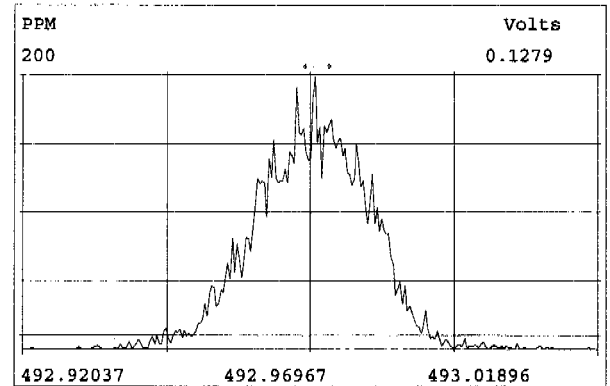
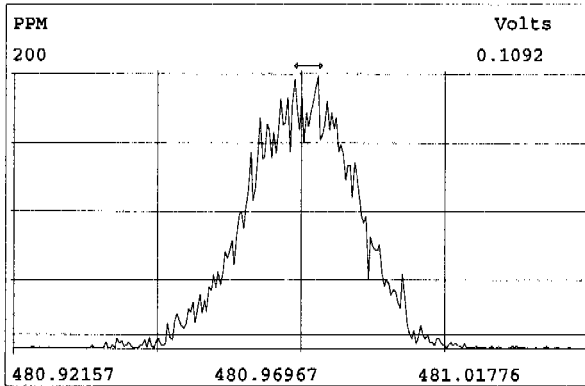
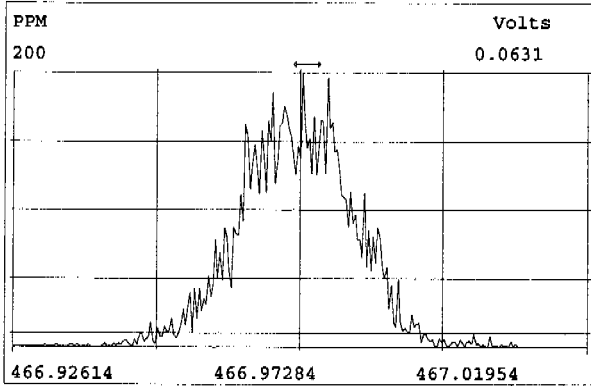
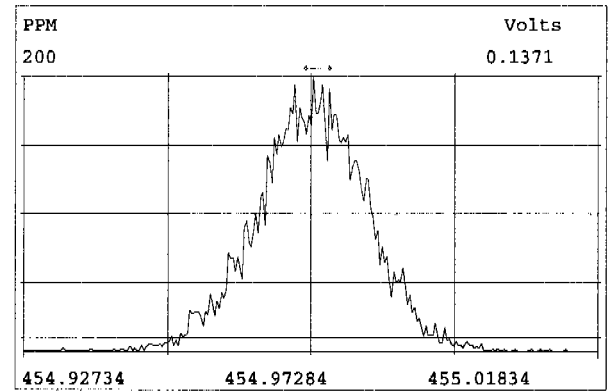
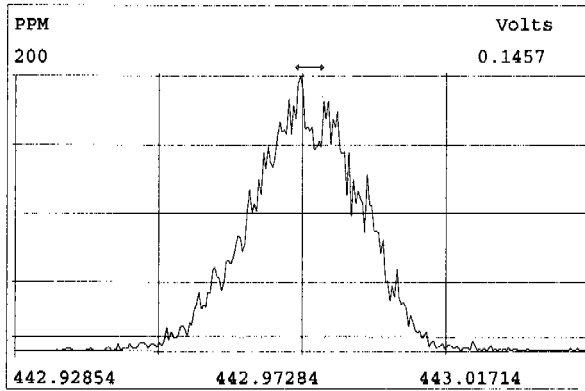
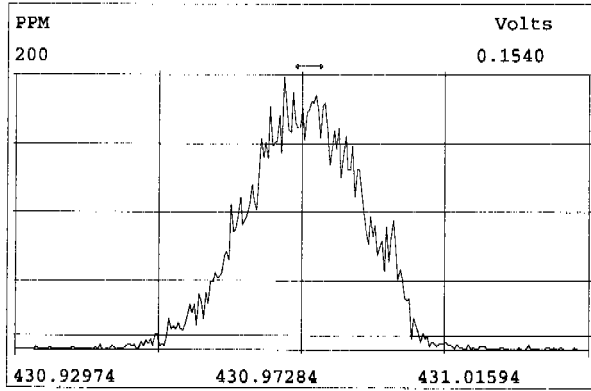
* Ending standard criteria applicable to 8290 only.



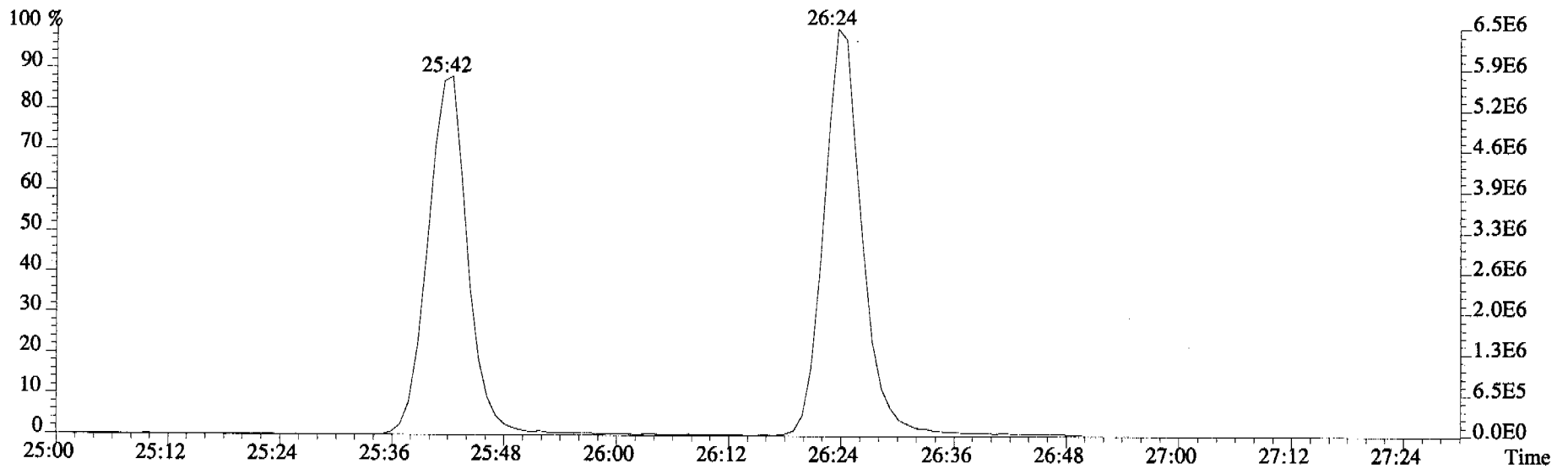
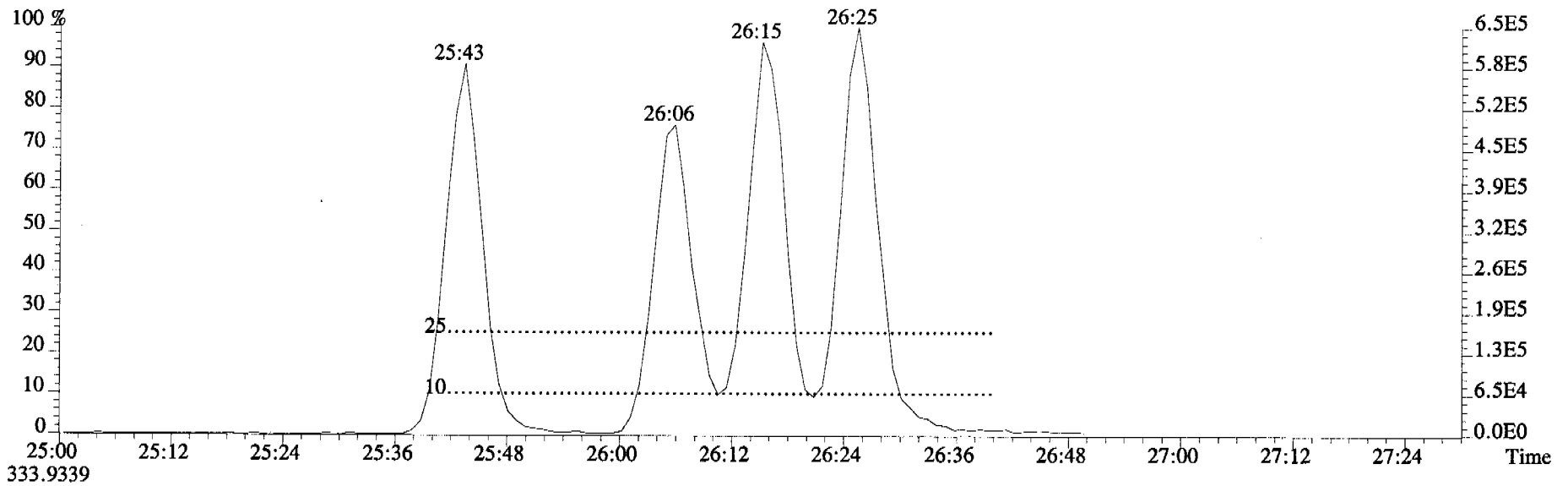




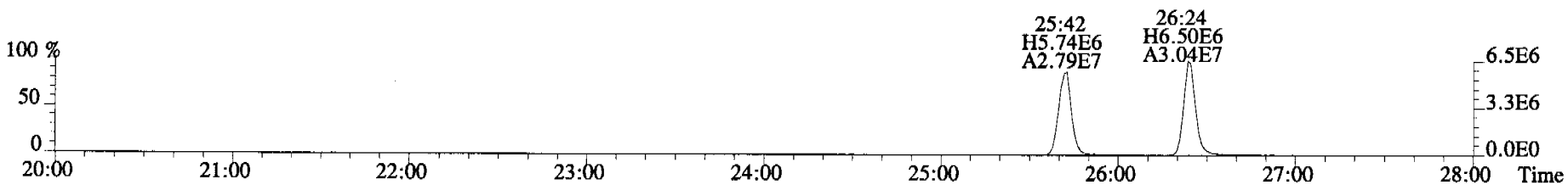
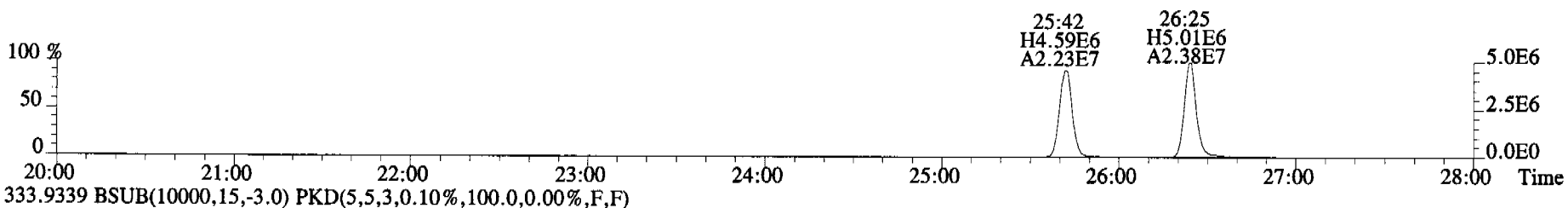
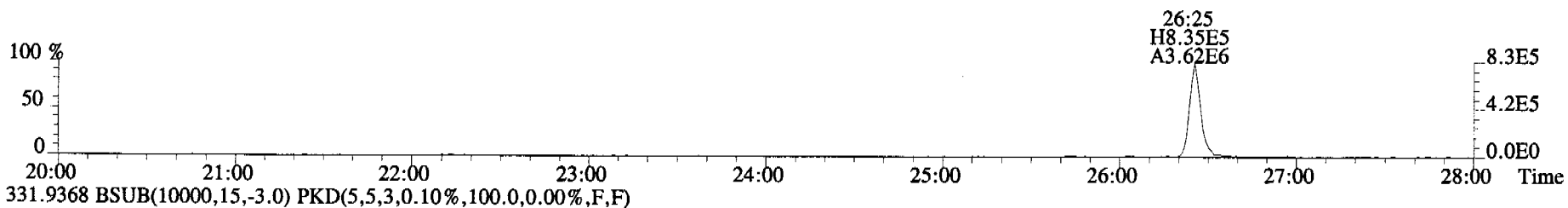
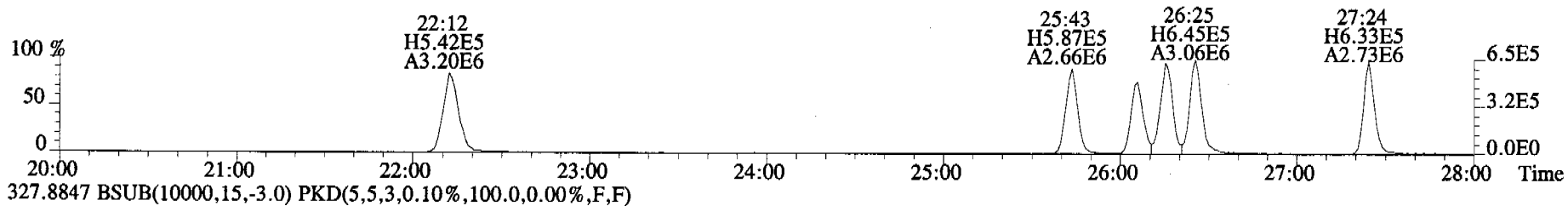
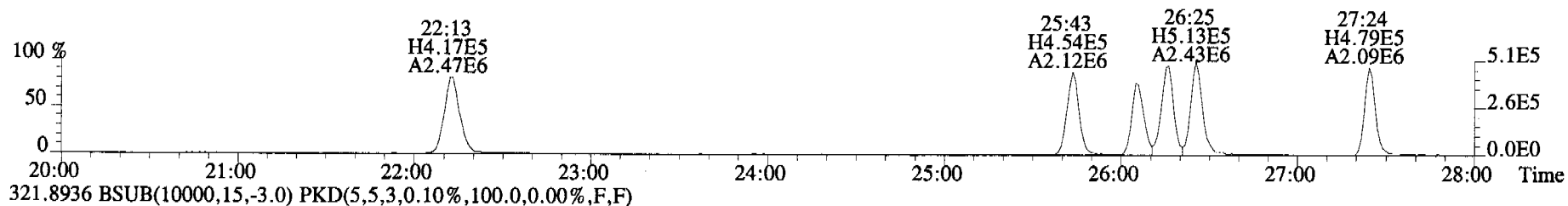




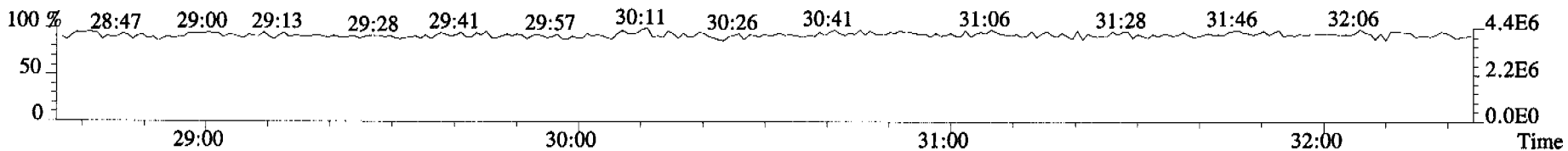
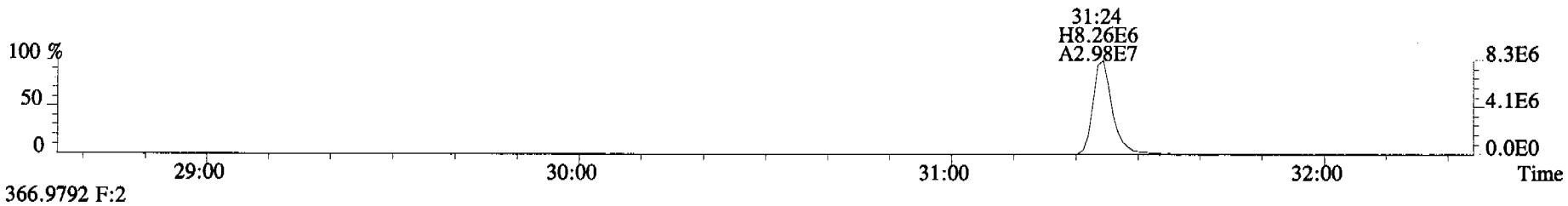
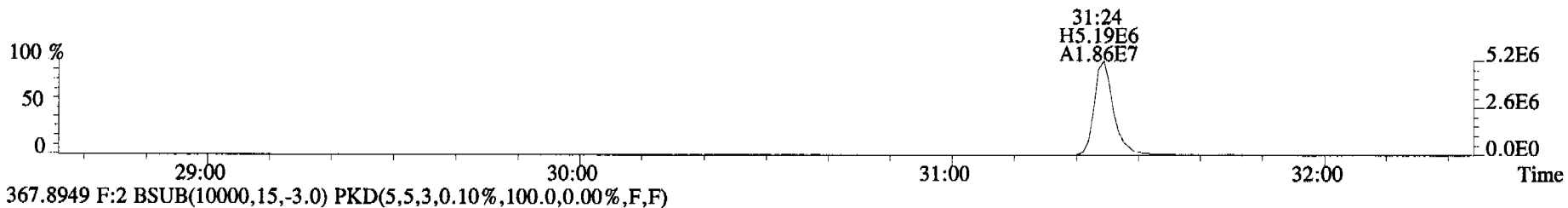
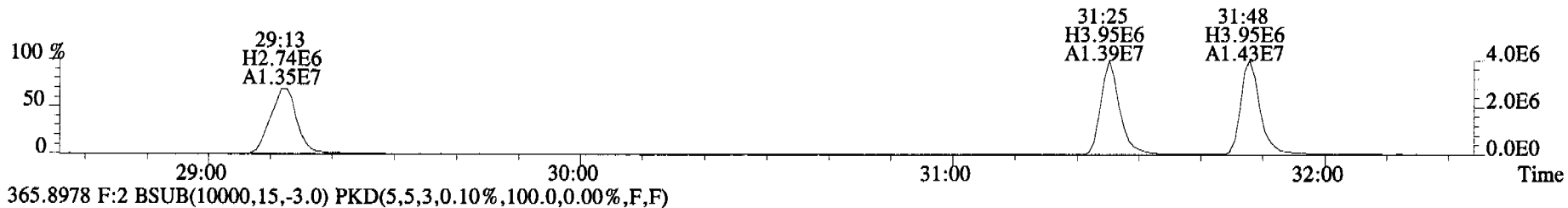
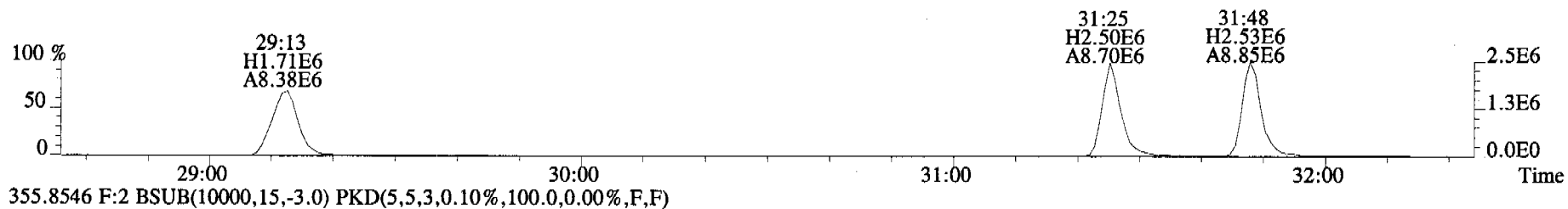
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
321.8936



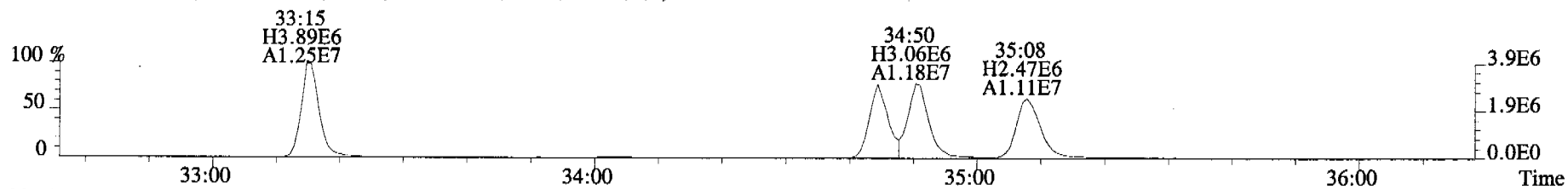
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



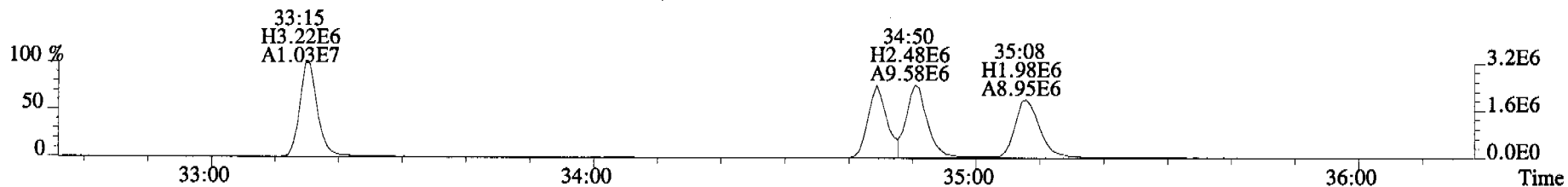
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



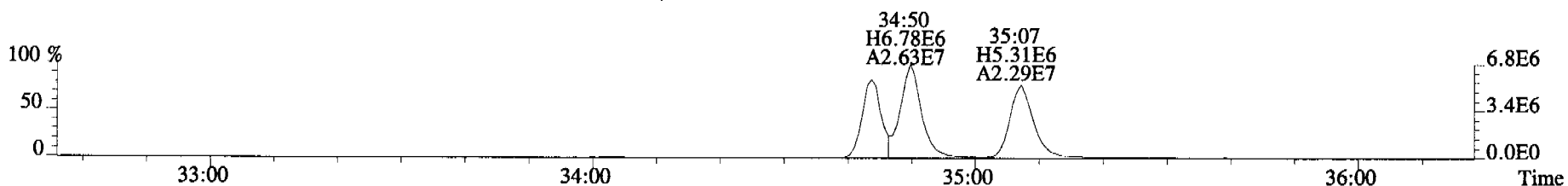
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



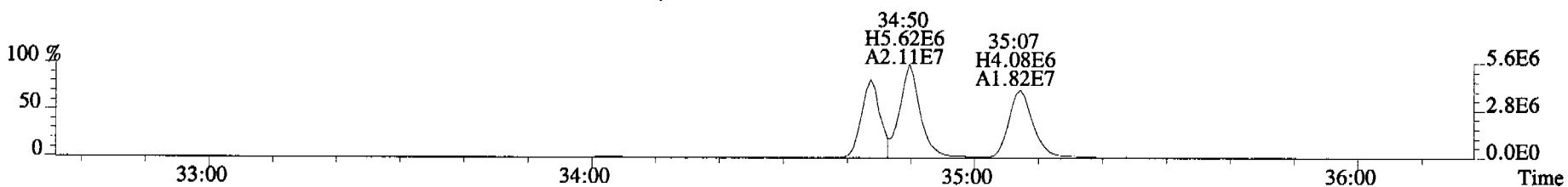
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



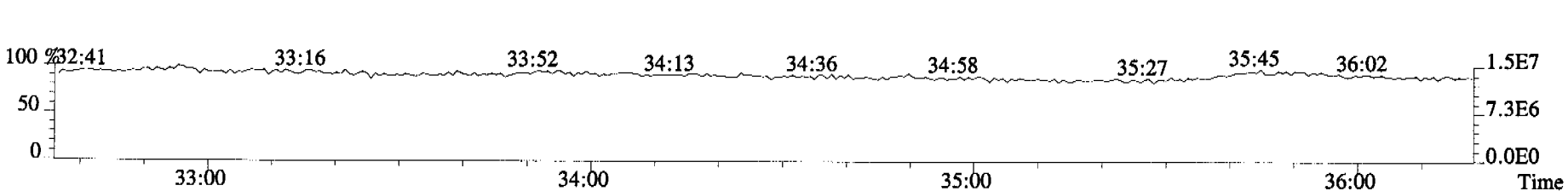
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



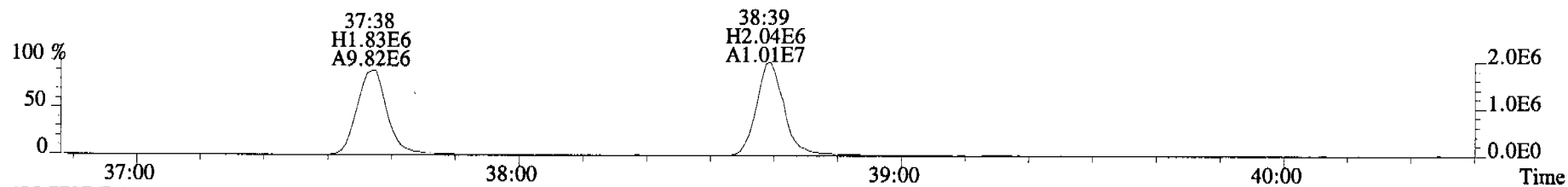
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



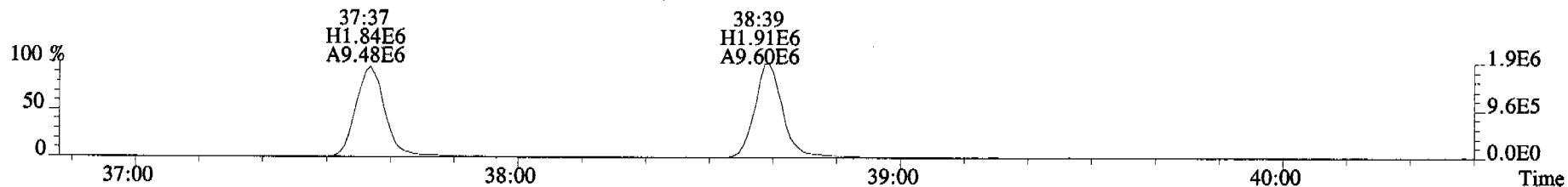
380.9760 F:3



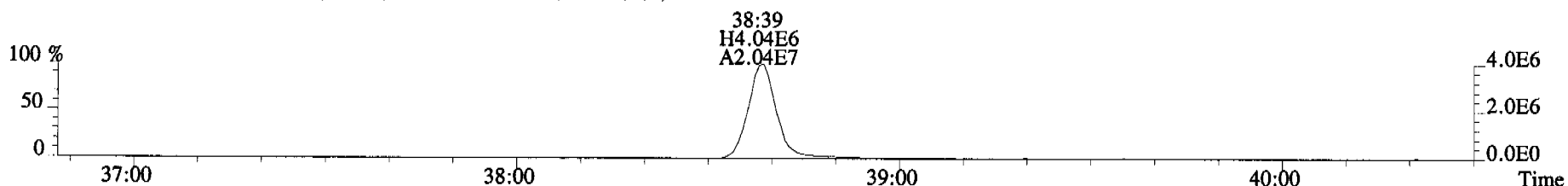
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



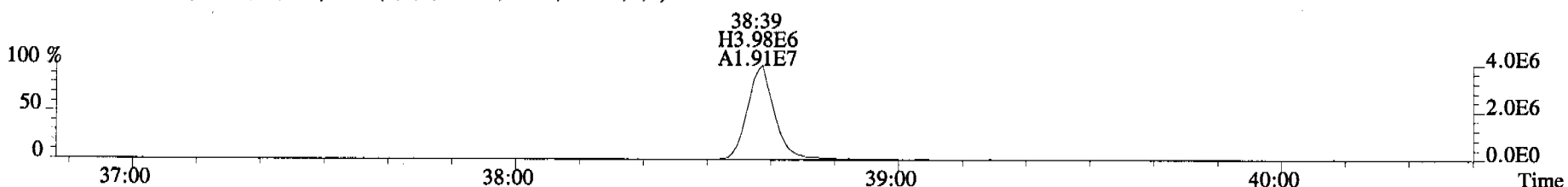
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



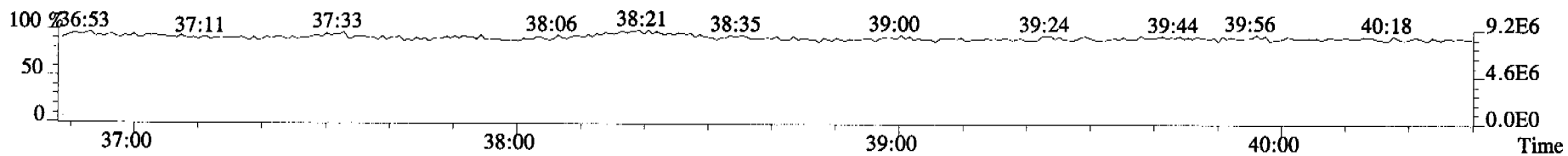
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



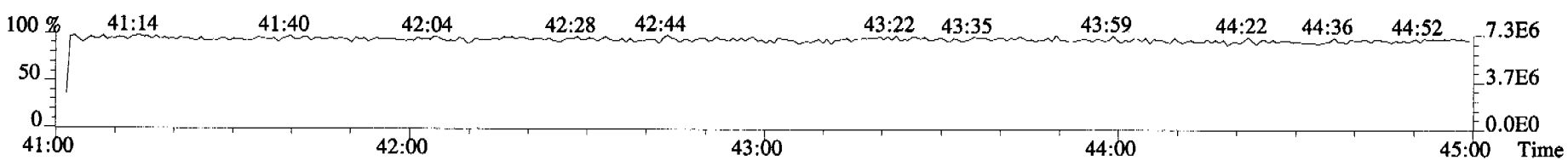
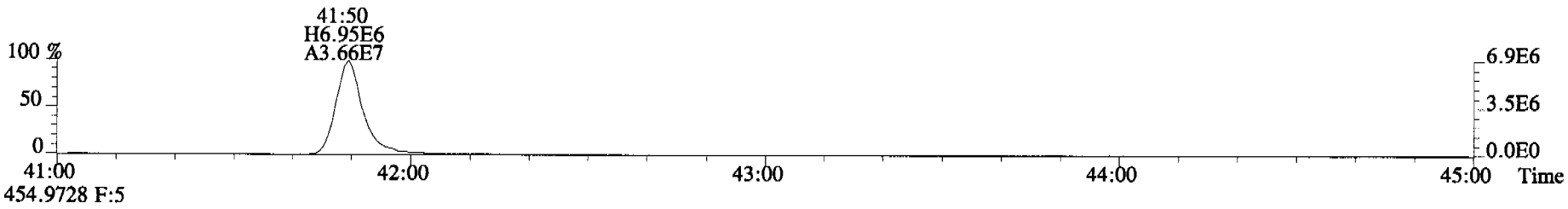
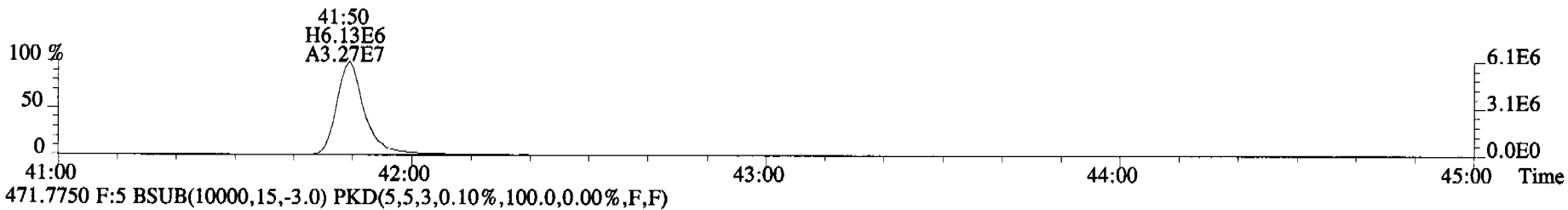
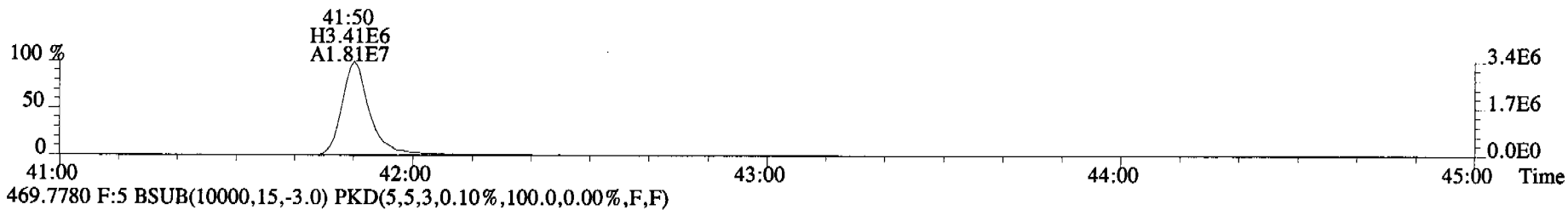
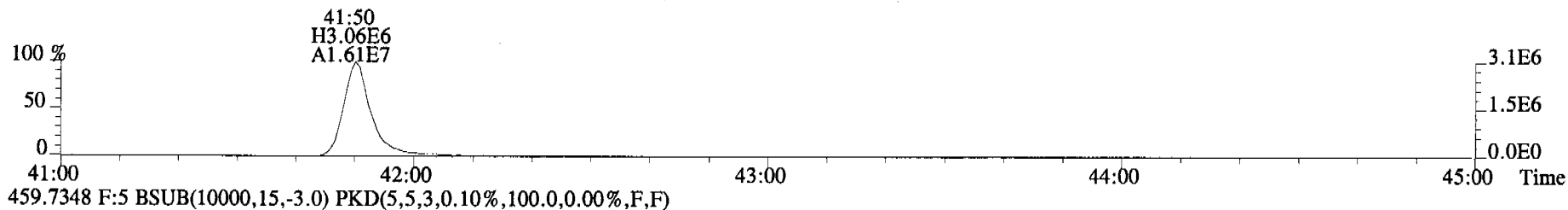
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



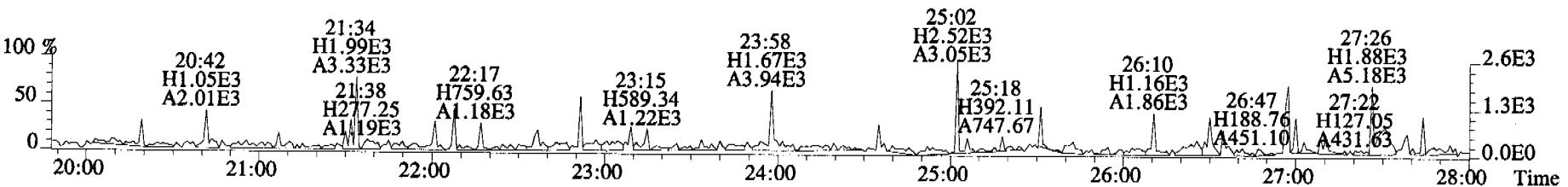
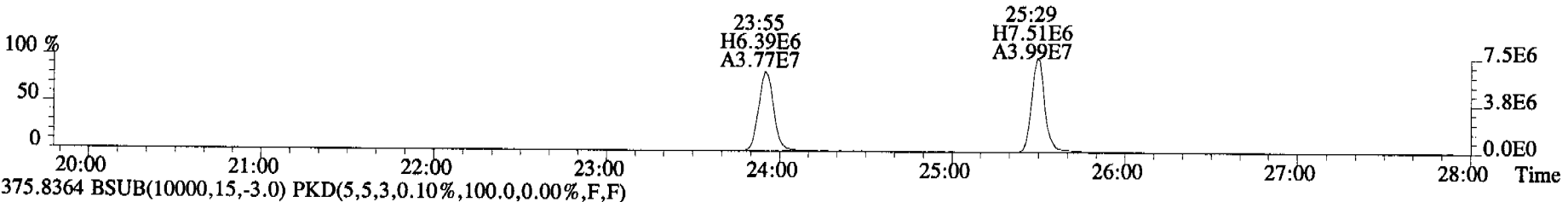
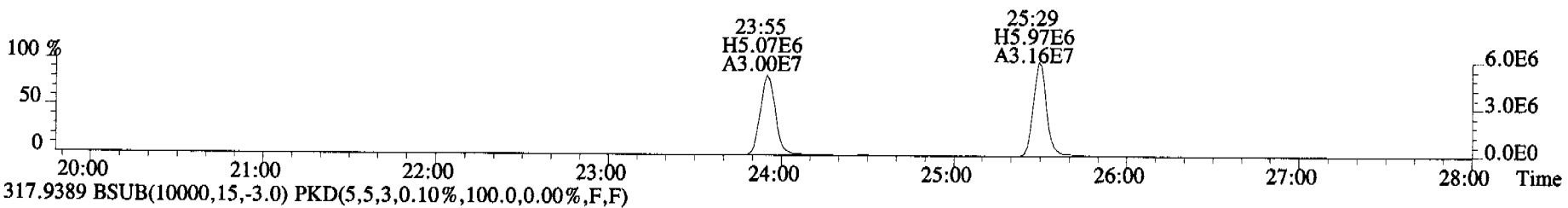
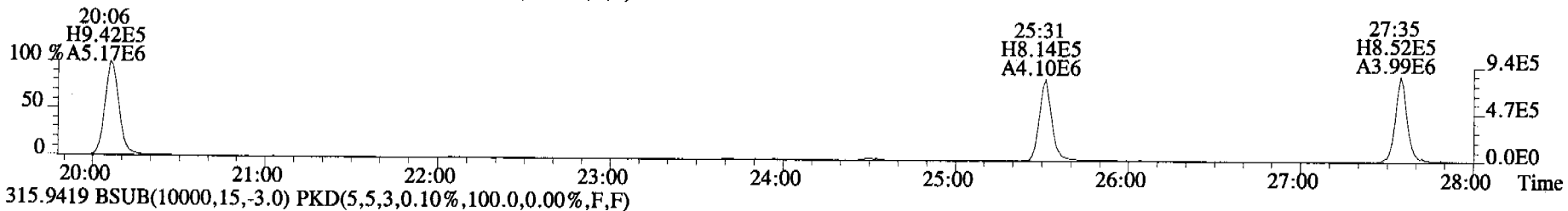
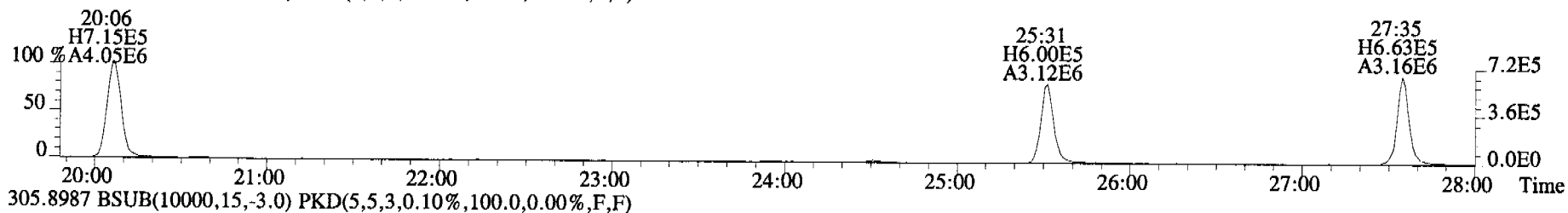
430.9728 F:4



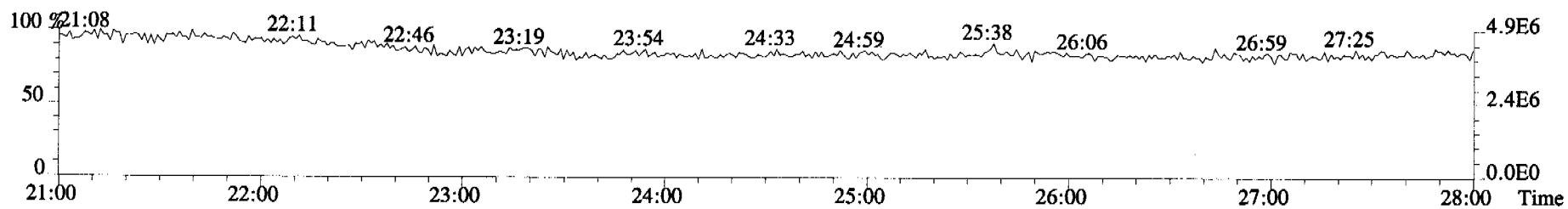
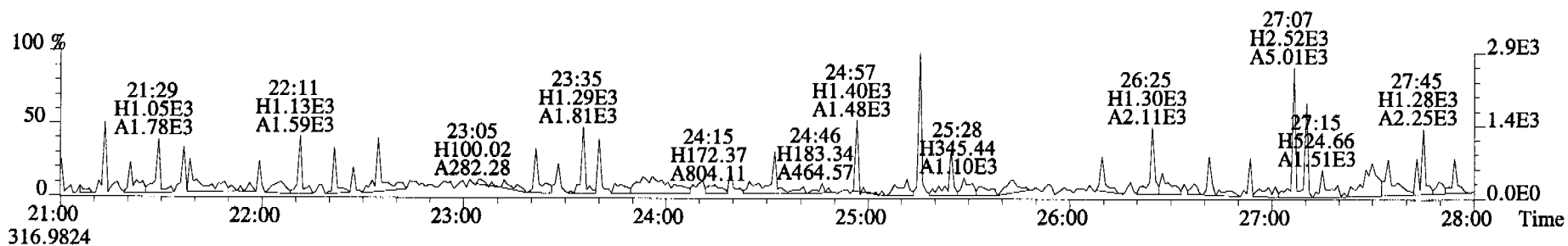
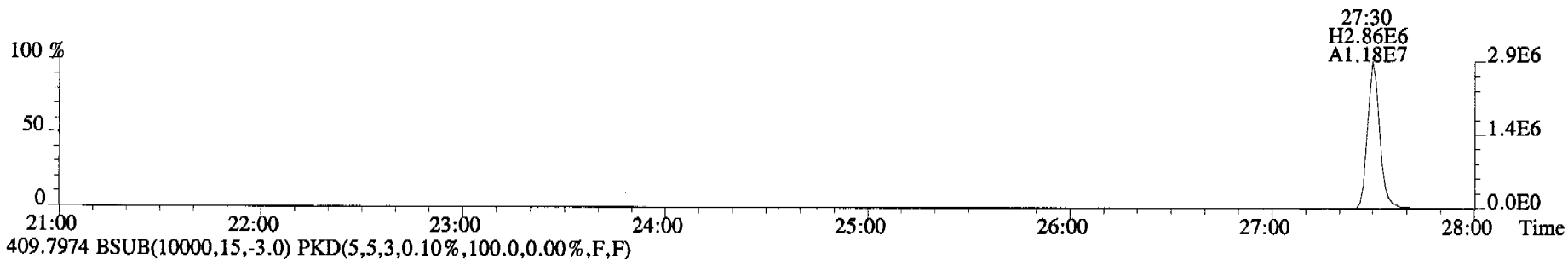
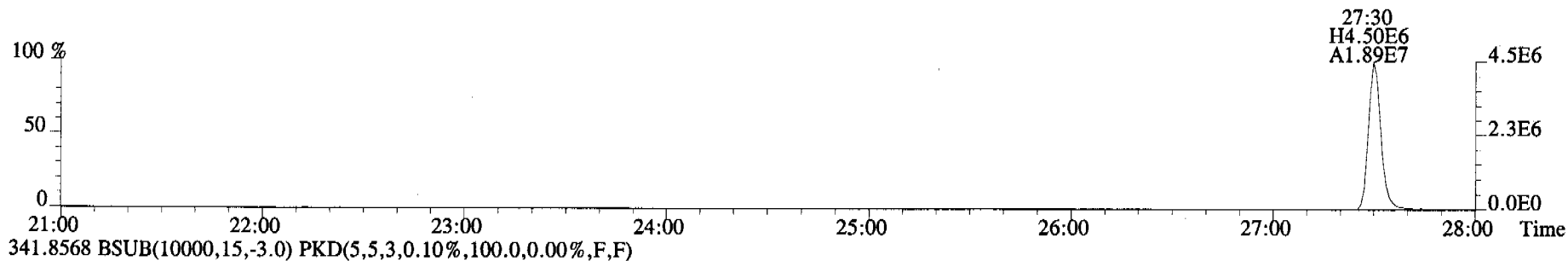
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



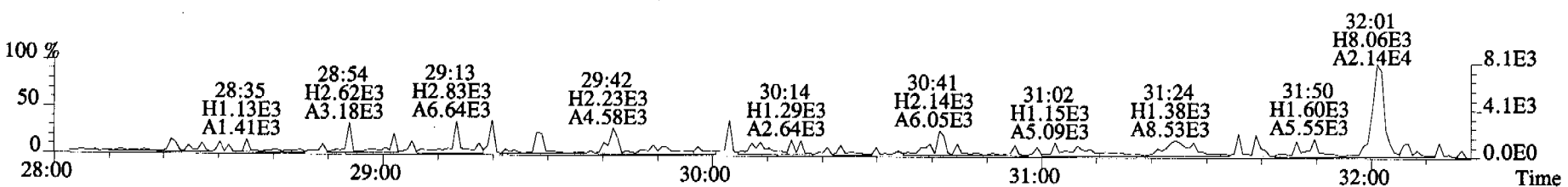
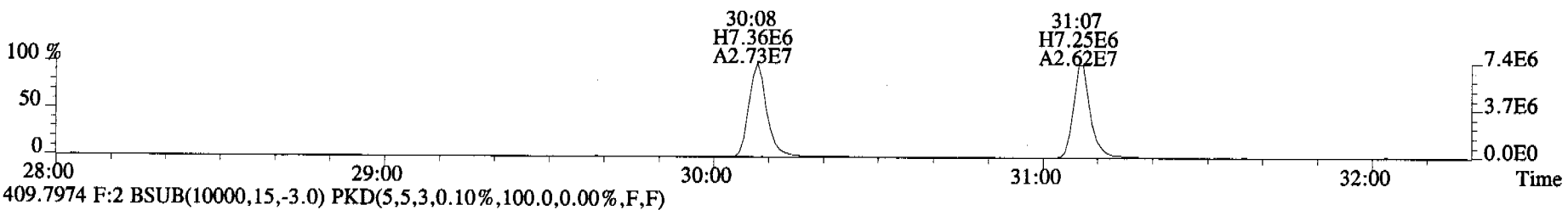
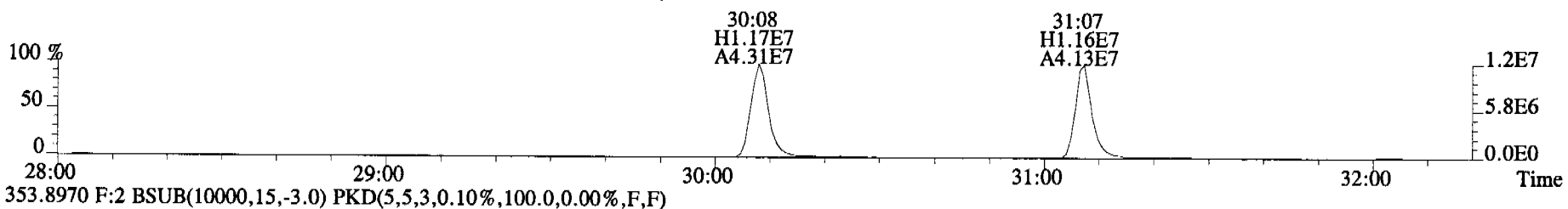
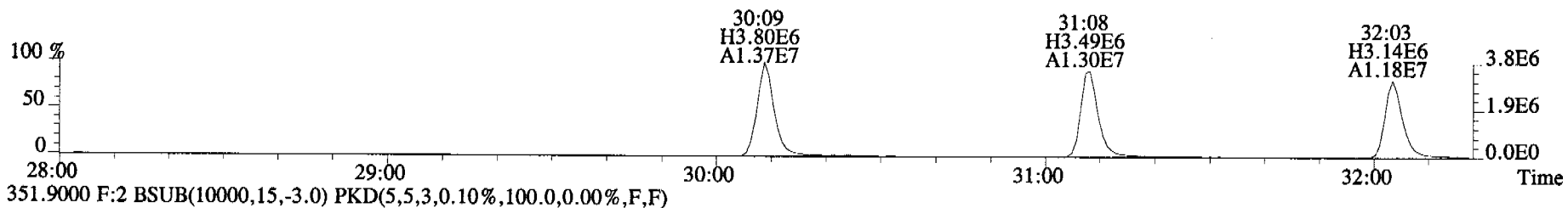
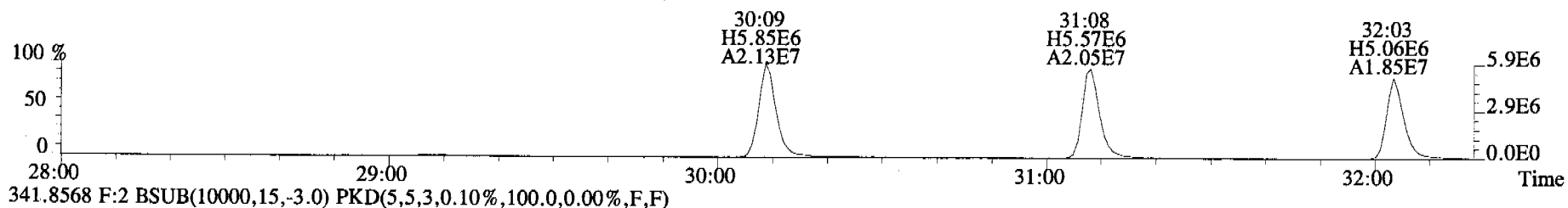
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



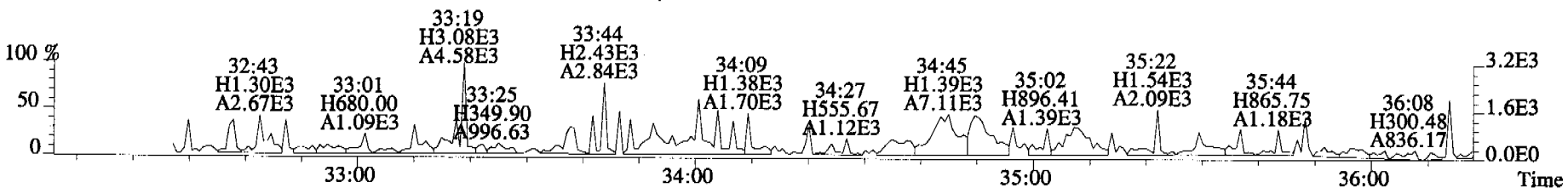
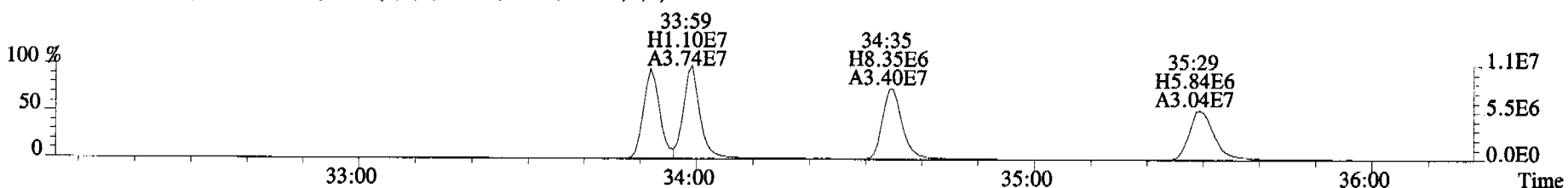
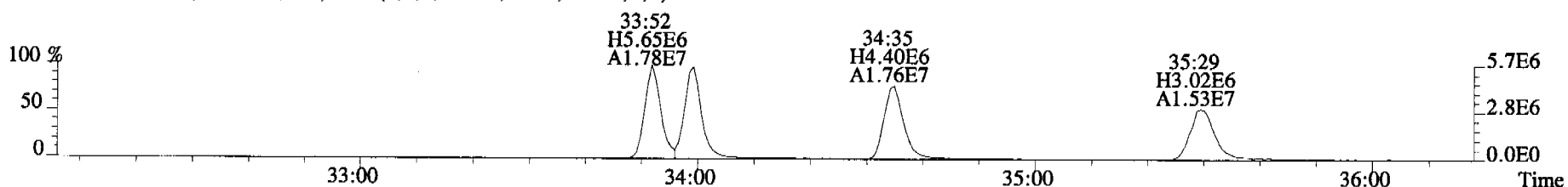
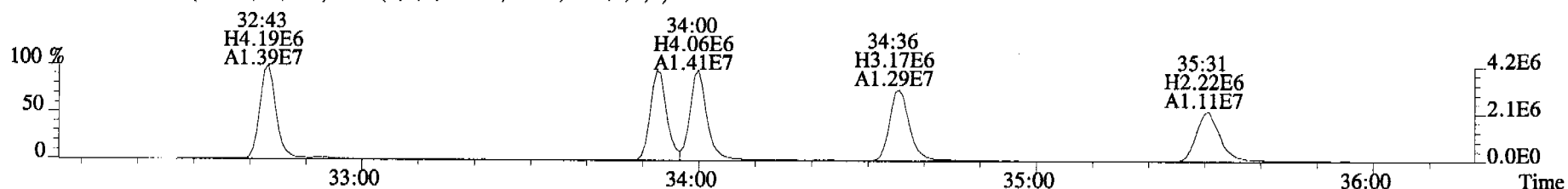
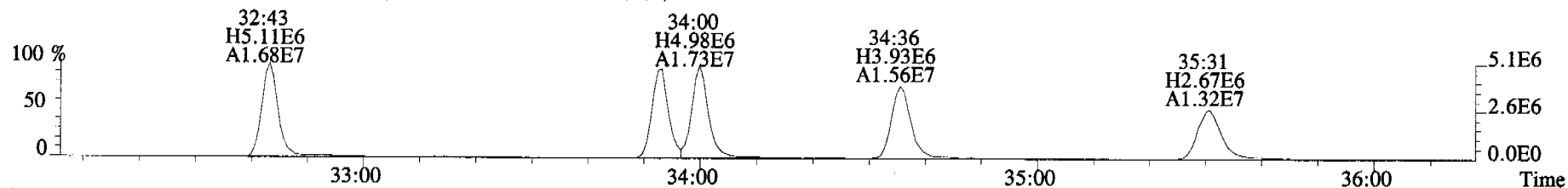
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



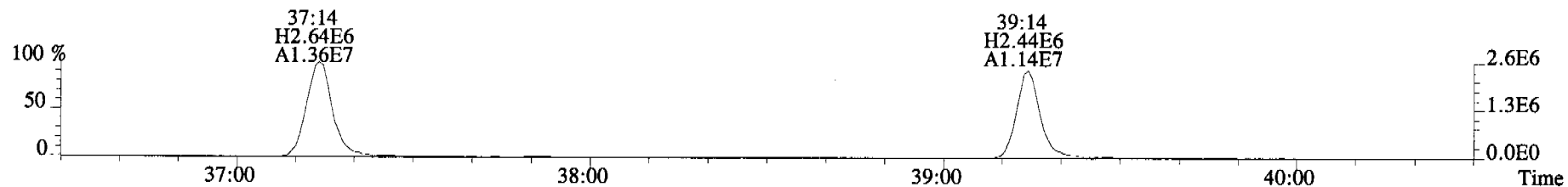
File:060920C2 #1-324 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



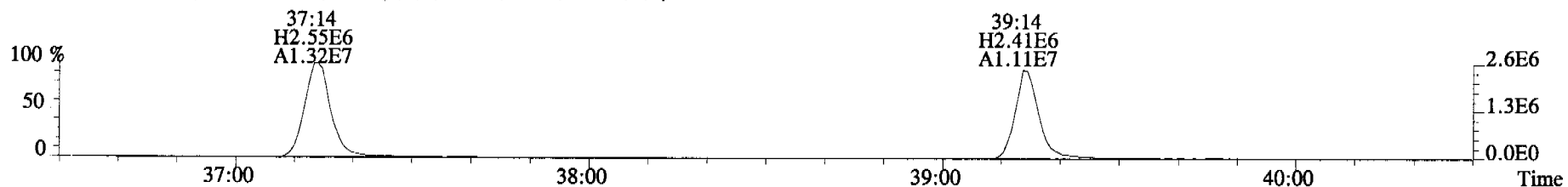
File:060920C2 #1-363 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



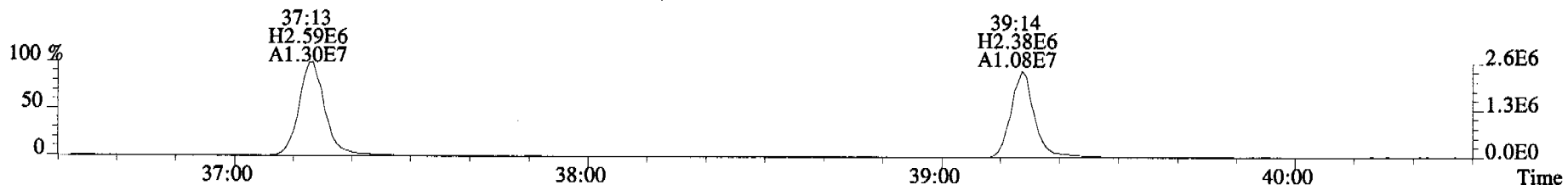
File:060920C2 #1-399 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



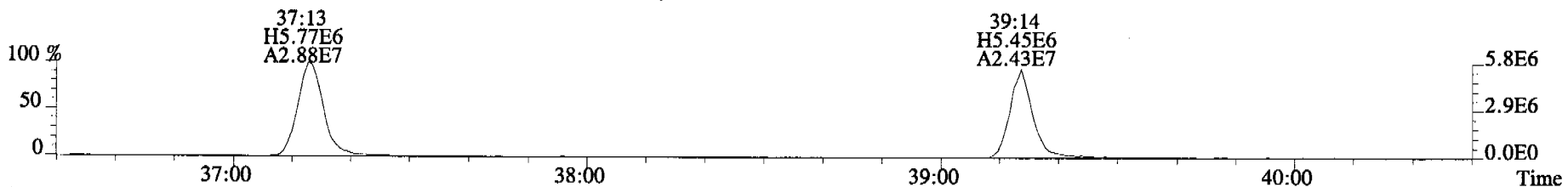
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



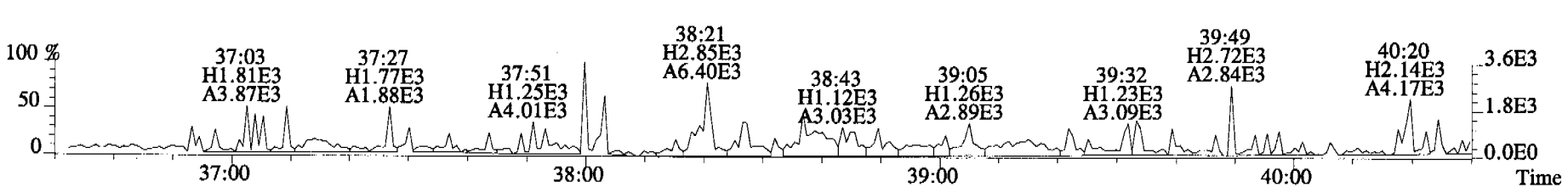
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



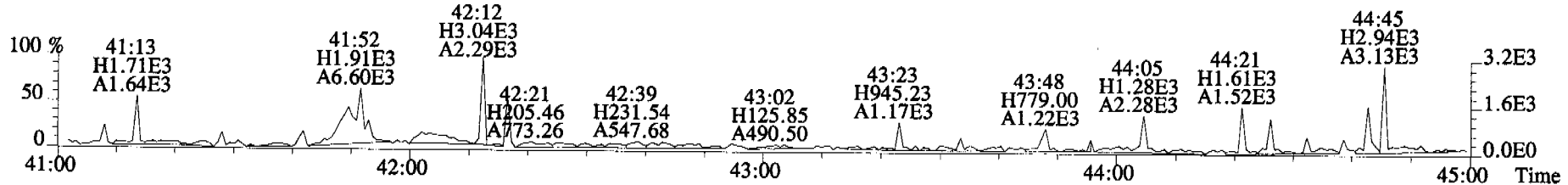
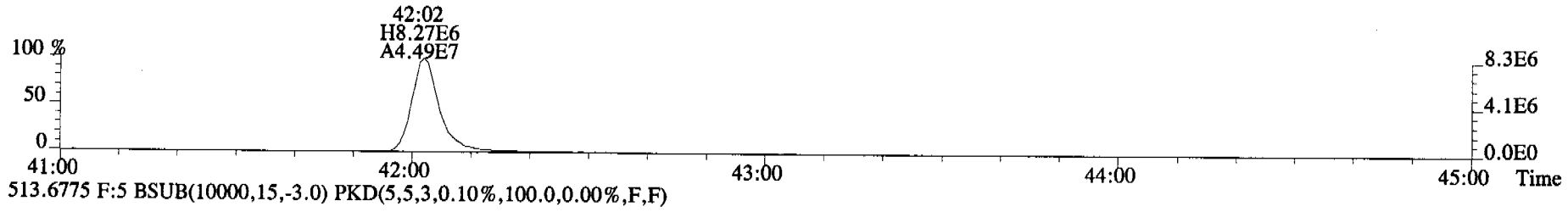
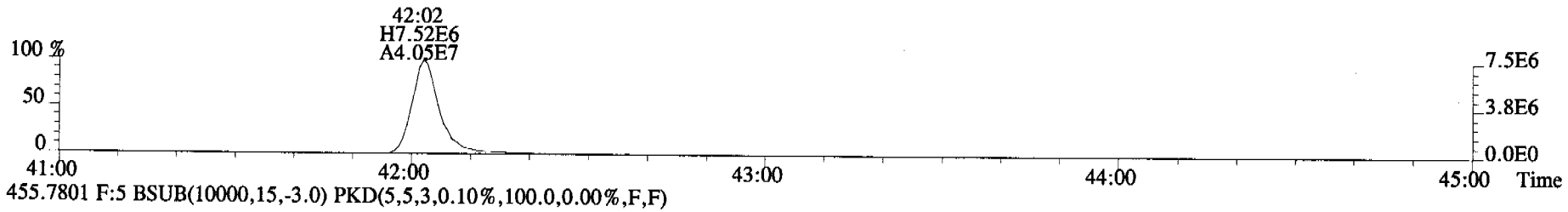
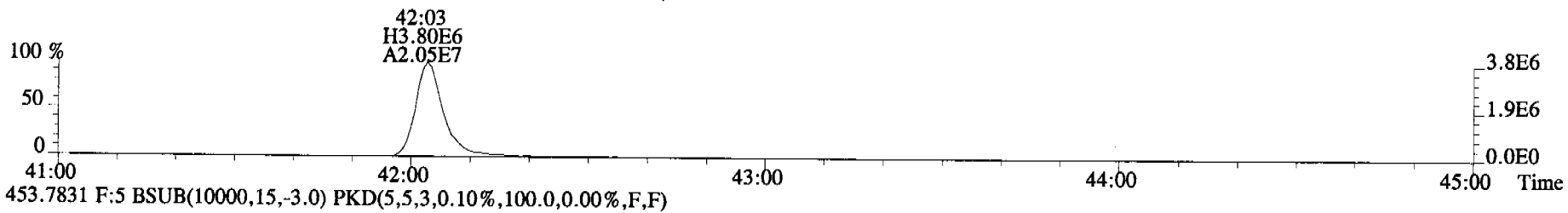
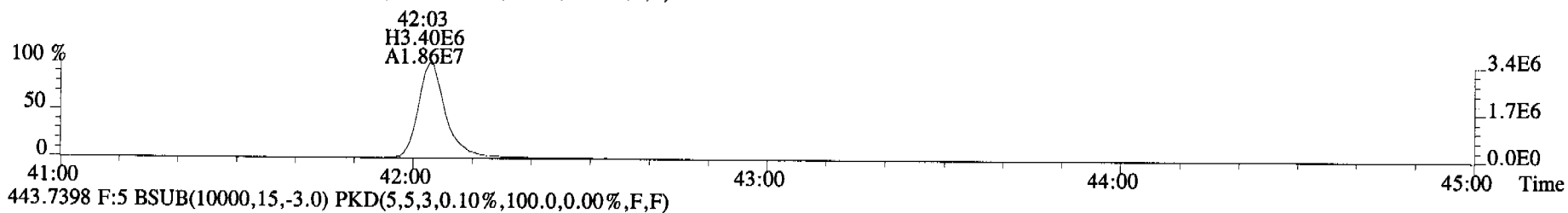
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



File:060920C2 #1-345 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-2

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.1	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	44.4	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	44.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	46.5	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	47.0	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	49.6	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	94.9	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.25	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	48.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	47.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.6	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.20	1.05-1.43	y	47.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.5	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	48.3	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.2	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MSDate: 9/21/06

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)	
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	96.9	82.0 - 121.0 85.0 - 117.0	(5) (1) See Table 8, Method 1613, for m/z specifications.
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	89.0	62.0 - 160.0	(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	95.7	85.0 - 117.0	(3) Contract-required concentration range, as specified in Table 6, Method 1613.
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	104	85.0 - 118.0	(4) No ion abundance ratio; report concentration found.
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	102	72.0 - 138.0	(5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only.
13C-OCDD	M+2/M+4	0.90	0.76-1.02	y	215	96.0 - 415.0	
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	101	71.0 - 140.0 76.0 - 131.0	
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	87.7	76.0 - 130.0	
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	82.1	77.0 - 130.0	
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	76.0 - 131.0	
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	103	70.0 - 143.0	
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	96.3	73.0 - 137.0	
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.1	74.0 - 135.0	
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	99.9	78.0 - 129.0	
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	99.0	77.0 - 129.0	
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	199	96.0 - 415.0	
CLEANUP STANDARD (4)							
37Cl-2,3,7,8-TCDD					8.94	7.9 - 12.7 8.3 - 12.1	(5)

Analyst: ms

Date: 9/21/06

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-5 Initial Calibration Date: 3/22/06

RT Window Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

DB-5 IS Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

DB_225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:15	1,3,6,8-TCDF (F)	20:09
1,2,8,9-TCDD (L)	27:27	1,2,8,9-TCDF (L)	27:37
1,2,4,7,9-PeCDD (F)	29:14	1,3,4,6,8-PeCDF (F)	27:32
1,2,3,8,9-PeCDD (L)	31:51	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)	35:12	1,2,3,7,8,9-HxCDF (L)	35:35
1,2,3,4,6,7,9-HpCDD (F)	37:41	1,2,3,4,6,7,8-HpCDF (F)	37:18
1,2,3,4,6,7,8-HpCDD (L)	38:43	1,2,3,4,7,8,9-HpCDF (L)	39:19

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5).

=====

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: 9/21/06

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT
	REFERENCE	RRT	QC LIMITS (1)
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
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
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	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-TCDF	13C-1,2,3,4-TCDD	0.993	0.923-1.103
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.028	0.976-1.043
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.028	0.989-1.052
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.173	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.212	1.011-1.526
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.223	1.000-1.567

Analyst: MS

Date: 9/21/06

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

Compounds Using 13C-123789-HxCDD as Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	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	1.009	1.000-1.019
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-1,2,3,7,8,9-HxCDD	0.964	0.944-0.970
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.967	0.949-0.975
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.984	0.959-1.021
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDD	1.011	0.977-1.047
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.988	0.977-1.000
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.991	0.981-1.003
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.060	1.043-1.085
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,7,8,9-HxCDD	1.100	1.086-1.110
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.117	1.057-1.151
13C-OCDD	13C-1,2,3,7,8,9-HxCDD	1.191	1.032-1.311
13C-OCDF	13C-1,2,3,7,8,9-HxCDD	1.197	1.032-1.311

Analyst: (ms)

Date: 9/21/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-2

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO	RATIO			(ng/mL)	
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.1	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	44.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	44.2	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	46.5	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	47.0	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	49.6	40.0 - 60.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	94.9	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.25	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	48.2	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	47.9	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.9	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.6	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.0	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.20	1.05-1.43	y	47.4	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.5	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	48.3	40.0 - 60.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.2	80.0 - 120

Analyst: VMDate: 9/21/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	96.9	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	89.0	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	95.7	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	104	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	102	70.0 - 130
13C-OCDD	M+2/M+4	0.90	0.76-1.02	y	215	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	101	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	87.7	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	82.1	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	103	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	96.3	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.1	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	99.9	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	99.0	70.0 - 130
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	199	140 - 260
CLEANUP STANDARD						
37C1-2,3,7,8-TCDD					8.94	7.00 - 13.0

Analyst: VMJDate: 9/21/06

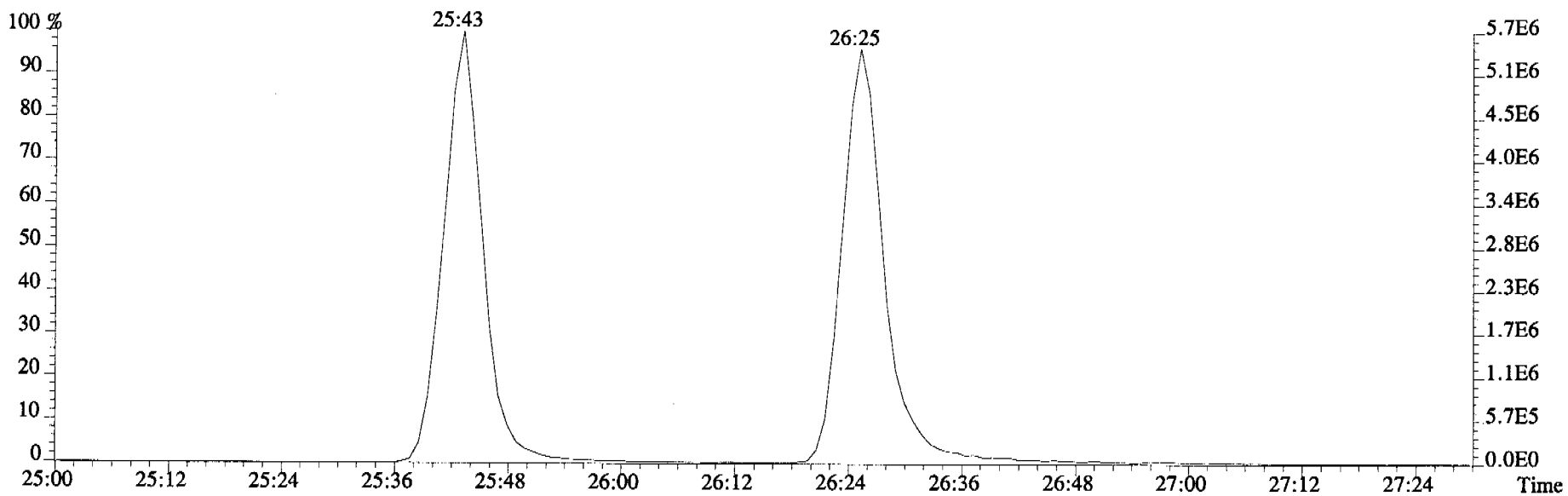
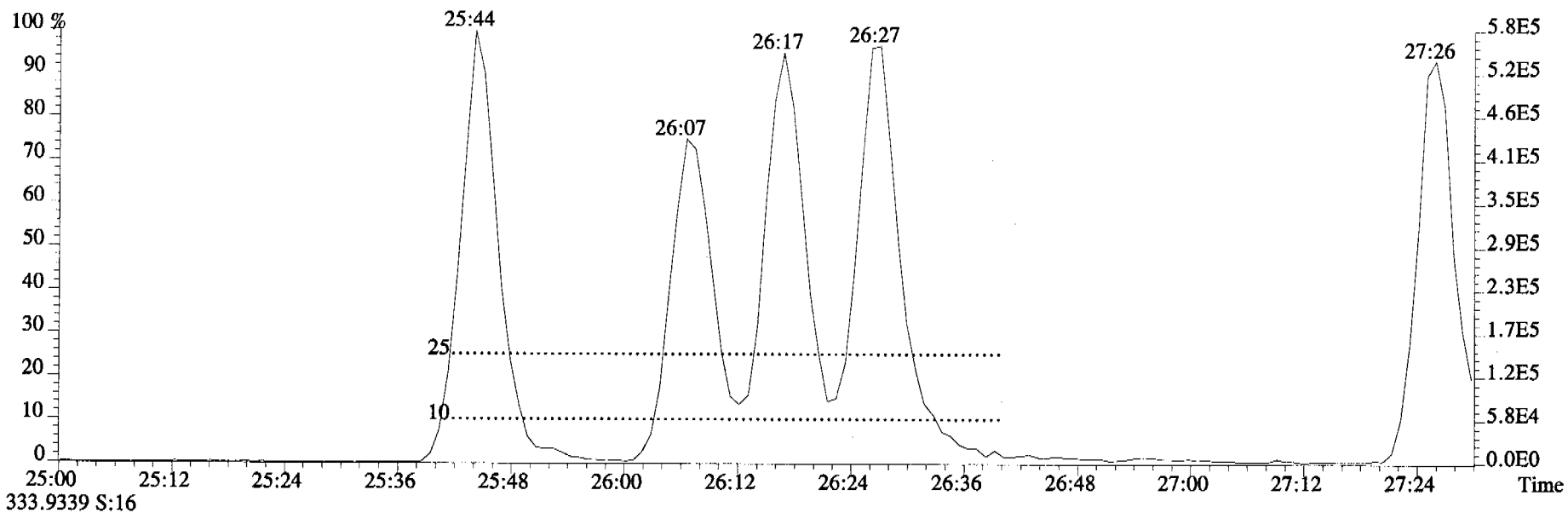
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	5.52e+06	0.77 y	1.08	26:28	10.079	*	2.5	*	*	Total Tetra-Dioxins	53.345	53.895	*	*	
1,2,3,7,8-PeCDD	2.04e+07	0.62 y	1.03	31:28	44.445	*	2.5	*	*	Total Penta-Dioxins	138.92	139.22	*	*	
1,2,3,4,7,8-HxCDD	1.55e+07	1.22 y	1.13	34:47	44.224	*	2.5	*	*	Total Hexa-Dioxins	190.35	191.92	*	*	
1,2,3,6,7,8-HxCDD	2.01e+07	1.24 y	1.03	34:53	46.492	*	2.5	*	*	Total Hepta-Dioxins	99.126	100.77	*	*	
1,2,3,7,8,9-HxCDD	1.91e+07	1.23 y	1.12	35:12	46.993	*	2.5	*	*	Total Tetra-Furans	30.569	30.737	*	*	
1,2,3,4,6,7,8-HpCDD	1.70e+07	1.06 y	1.02	38:43	49.591	*	2.5	*	*	Total Penta-Furans	185.84	187.20	*	*	
OCDD	2.98e+07	0.89 y	1.06	41:55	94.889	*	2.5	*	*	Total Hexa-Furans	240.85	242.03	*	*	
										Total Hepta-Furans	97.108	99.126	*	*	
2,3,7,8-TCDF	6.84e+06	0.77 y	1.06	25:33	9.2501	*	2.5	*	*						
1,2,3,7,8-PeCDF	3.10e+07	1.57 y	1.01	30:11	48.150	*	2.5	*	*						
2,3,4,7,8-PeCDF	2.94e+07	1.56 y	1.02	31:11	47.888	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	2.53e+07	1.19 y	1.15	33:55	48.865	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	2.96e+07	1.22 y	1.14	34:02	46.639	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	2.54e+07	1.22 y	1.17	34:39	46.013	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	2.17e+07	1.20 y	1.10	35:35	47.404	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	2.31e+07	1.03 y	1.31	37:18	48.499	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.89e+07	1.04 y	1.33	39:19	48.346	*	2.5	*	*						
OCDF	3.29e+07	0.90 y	0.91	42:08	99.199	*	2.5	*	*						
										Rec	Qual				
IS 13C-2,3,7,8-TCDD	5.07e+07	0.80 y	1.09	26:26	96.904					96.9					
IS 13C-1,2,3,7,8-PeCDD	4.45e+07	0.62 y	1.04	31:27	89.038					89.0					
IS 13C-1,2,3,4,7,8-HxCDD	3.08e+07	1.22 y	0.83	34:46	95.738					95.7					
IS 13C-1,2,3,6,7,8-HxCDD	4.19e+07	1.25 y	1.04	34:53	103.73					104					
IS 13C-1,2,3,4,6,7,8-HpCDD	3.38e+07	1.06 y	0.85	38:42	102.32					102					
IS 13C-OCDD	5.96e+07	0.90 y	0.71	41:55	214.99					107					
IS 13C-2,3,7,8-TCDF	6.97e+07	0.80 y	0.96	25:32	101.40					101					
IS 13C-1,2,3,7,8-PeCDF	6.40e+07	1.55 y	1.02	30:10	87.728					87.7					
IS 13C-2,3,4,7,8-PeCDF	6.00e+07	1.57 y	1.02	31:10	82.101					82.1					
IS 13C-1,2,3,4,7,8-HxCDF	4.52e+07	0.54 y	1.14	33:54	101.70					102					
IS 13C-1,2,3,6,7,8-HxCDF	5.58e+07	0.50 y	1.40	34:02	102.69					103					
IS 13C-2,3,4,6,7,8-HxCDF	4.72e+07	0.51 y	1.26	34:38	96.313					96.3					
IS 13C-1,2,3,7,8,9-HxCDF	4.17e+07	0.52 y	1.08	35:34	99.055					99.1					
IS 13C-1,2,3,4,6,7,8-HpCDF	3.62e+07	0.44 y	0.93	37:16	99.869					99.9					
IS 13C-1,2,3,4,7,8,9-HpCDF	2.95e+07	0.44 y	0.77	39:18	99.039					99.0					
IS 13C-OCDF	7.28e+07	0.91 y	0.94	42:07	198.59					99.3					
C/Up 37C1-2,3,7,8-TCDD	3.32e+06		0.77	26:27	8.9415					22.4					
RS/RT 13C-1,2,3,4-TCDD	4.80e+07	0.79 y	1.00	25:43	100.00										
RS 13C-1,2,3,4-TCDF	7.17e+07	0.80 y	1.00	23:57	100.00										
RS/RT 13C-1,2,3,7,8,9-HxCDD	3.88e+07	1.25 y	1.00	35:11	100.00										

Integrations Reviewed
 by by
 Analyst: M Analyst: _____
 Date: 9/21/06 Date: _____

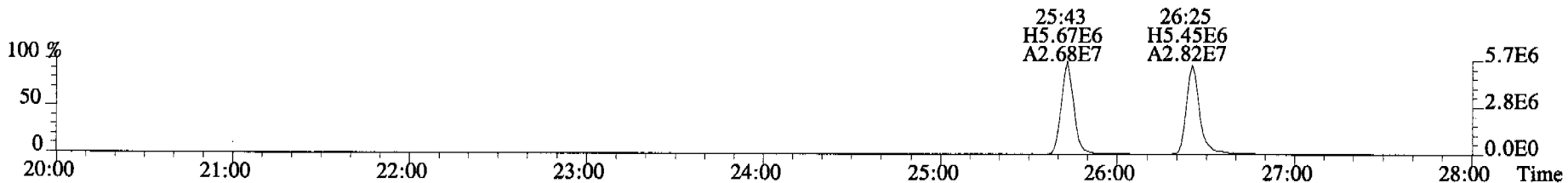
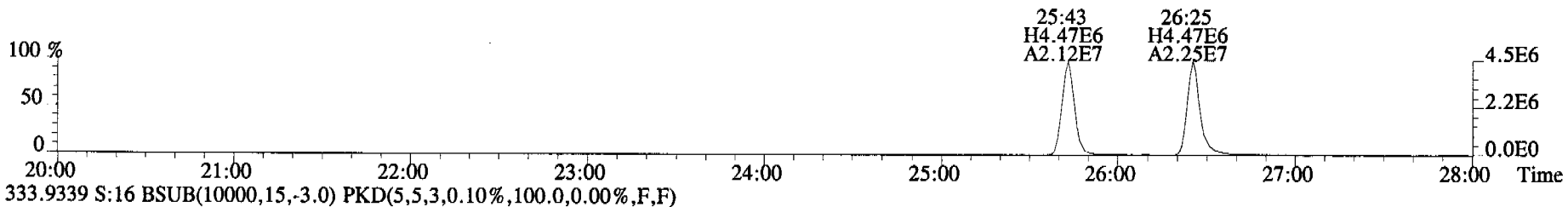
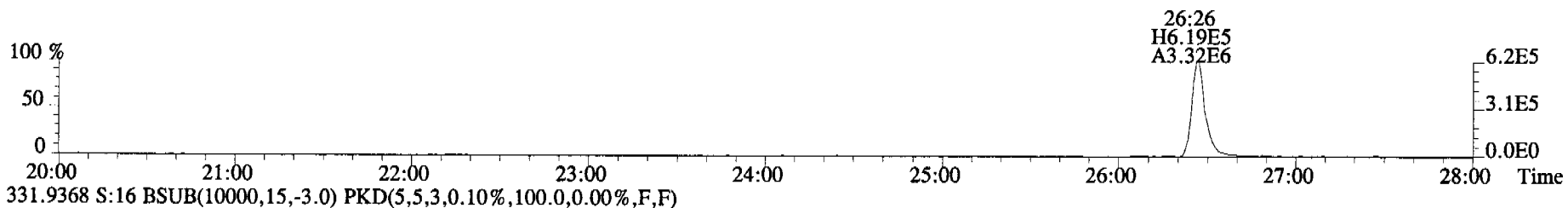
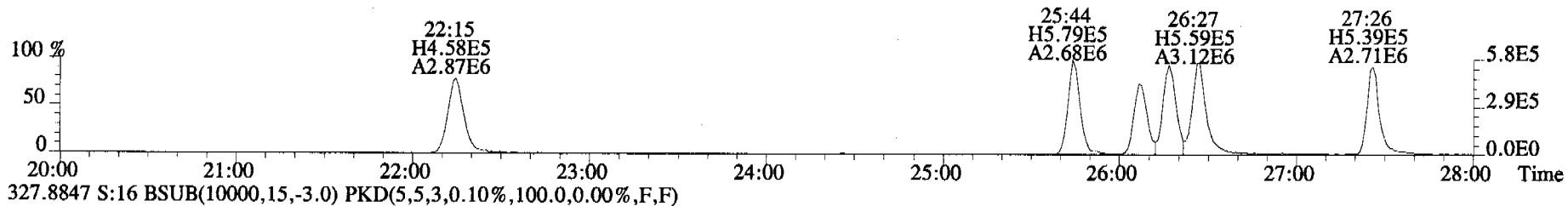
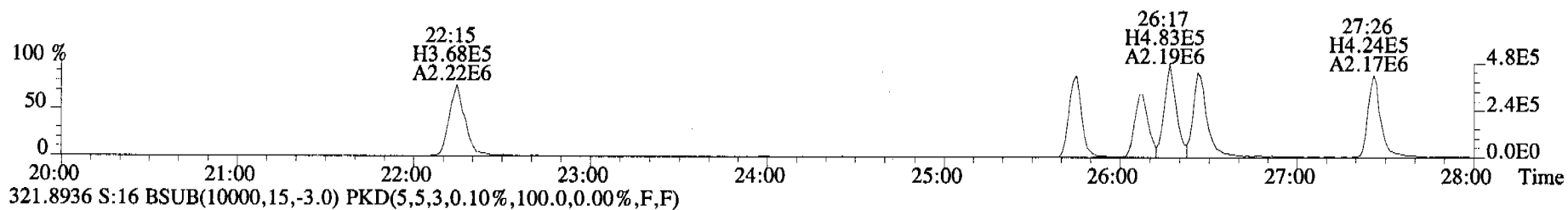
Alta Analytical Laboratory - Injection Log Run file: 060920C2 Instrument ID: VG-5 GC Column ID: db-5

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
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060920C2	2	0_8381_OPR001	MAS	20-SEP-06	16:04:31	ST060920C2-1	ST060920C2-2
060920C2	3	0_8382_OPR001	MAS	20-SEP-06	16:54:06	ST060920C2-1	ST060920C2-2
060920C2	4	SOLVENT BLANK	MAS	20-SEP-06	17:43:41	ST060920C2-1	ST060920C2-2
060920C2	5	0_8381_MB001	MAS	20-SEP-06	18:33:15	ST060920C2-1	ST060920C2-2
060920C2	6	0_8382_MB001	MAS	20-SEP-06	19:22:48	ST060920C2-1	ST060920C2-2
060920C2	7	28101_8381_001	MAS	20-SEP-06	20:12:26	ST060920C2-1	ST060920C2-2
060920C2	8	28101_8381_002	MAS	20-SEP-06	21:02:04	ST060920C2-1	ST060920C2-2
060920C2	9	28110_8381_001	MAS	20-SEP-06	21:51:37	ST060920C2-1	ST060920C2-2
060920C2	10	28111_8381_001	MAS	20-SEP-06	22:41:10	ST060920C2-1	ST060920C2-2
060920C2	11	28112_8381_001	MAS	20-SEP-06	23:30:43	ST060920C2-1	ST060920C2-2
060920C2	12	28113_8381_001	MAS	21-SEP-06	00:20:15	ST060920C2-1	ST060920C2-2
060920C2	13	28114_8381_001	MAS	21-SEP-06	01:09:54	ST060920C2-1	ST060920C2-2
060920C2	14	28074_8382_001	MAS	21-SEP-06	01:59:27	ST060920C2-1	ST060920C2-2
060920C2	15	SOLVENT BLANK	MAS	21-SEP-06	02:48:56	ST060920C2-1	ST060920C2-2
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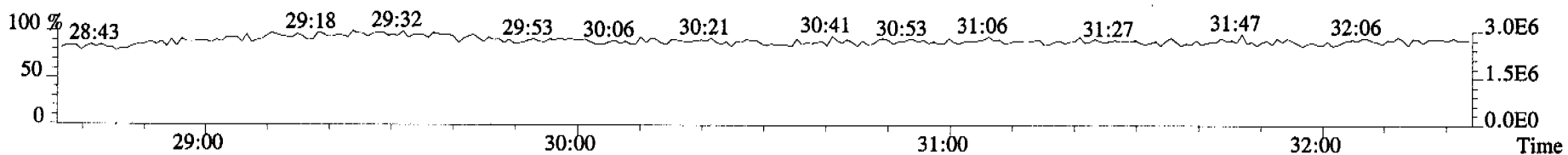
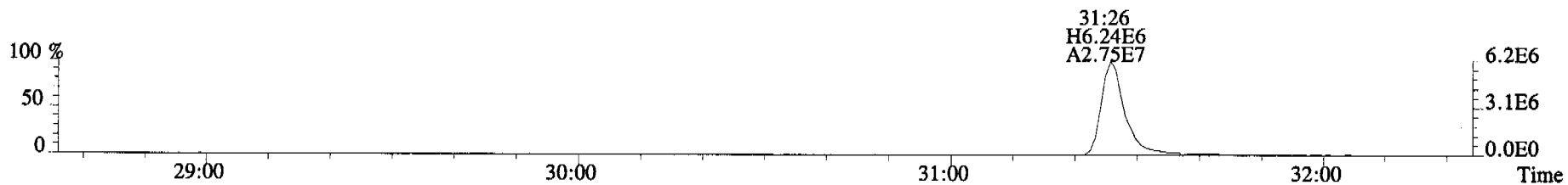
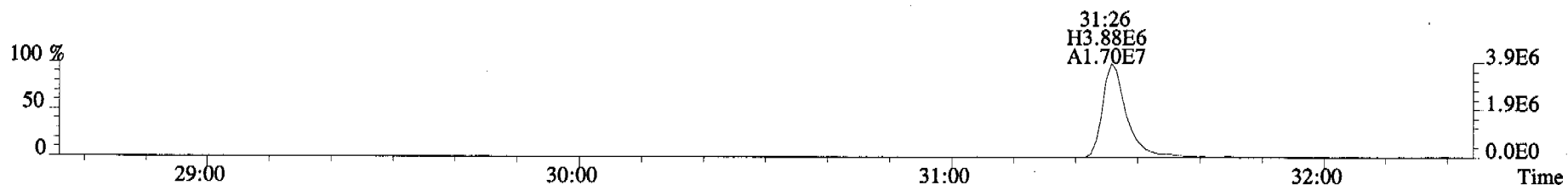
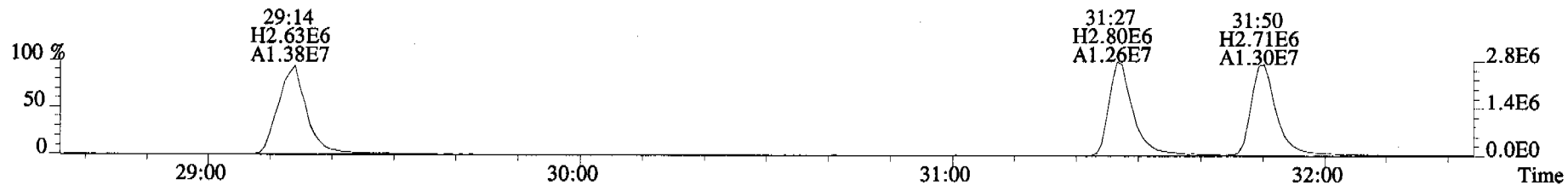
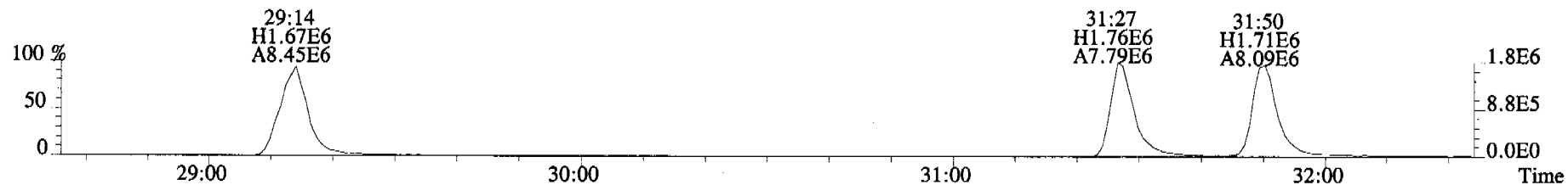
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321.8936 S:16



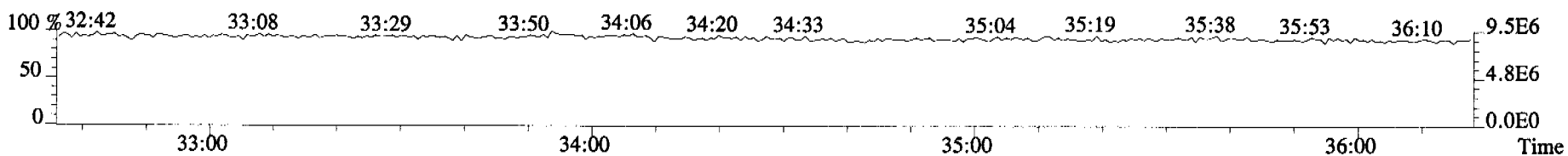
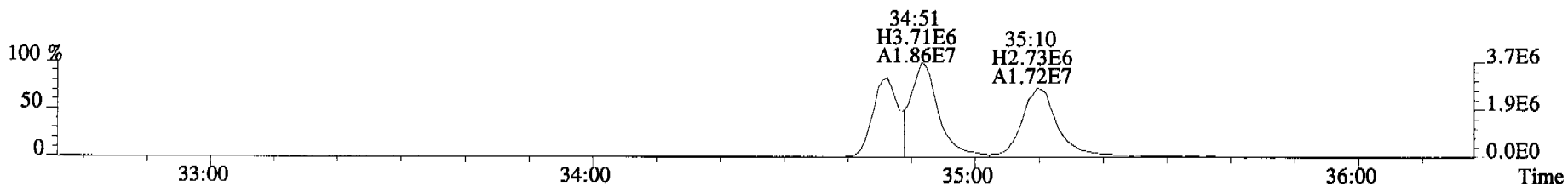
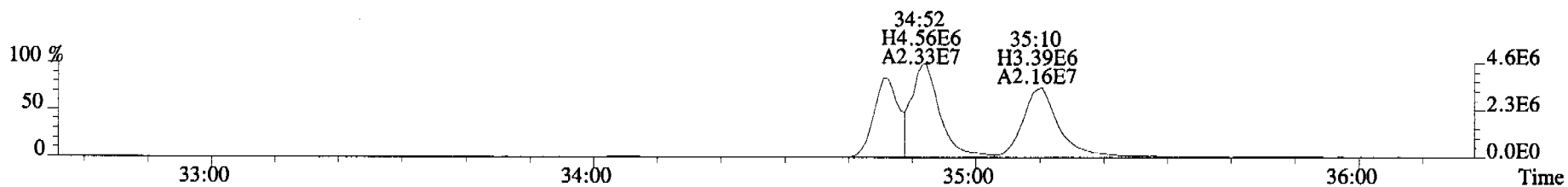
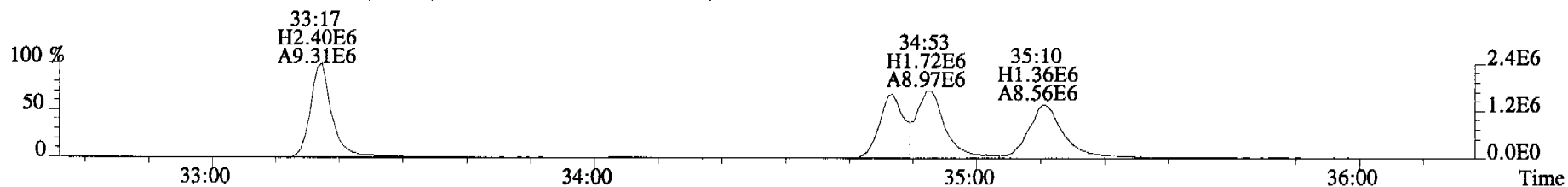
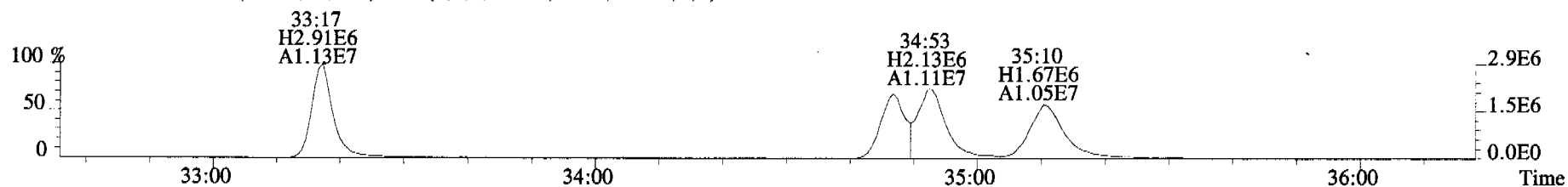
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319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



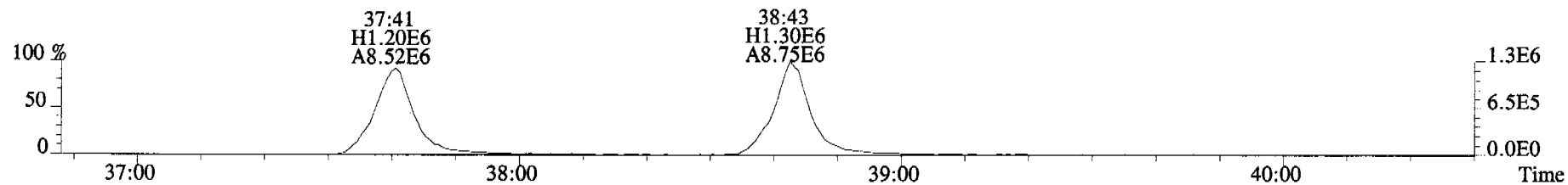
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353.8576 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



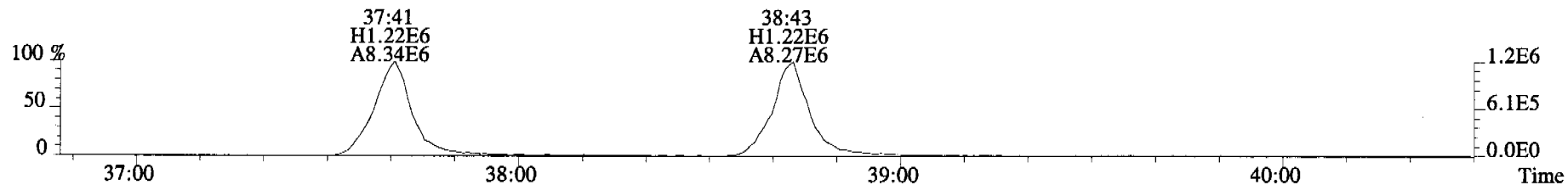
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389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



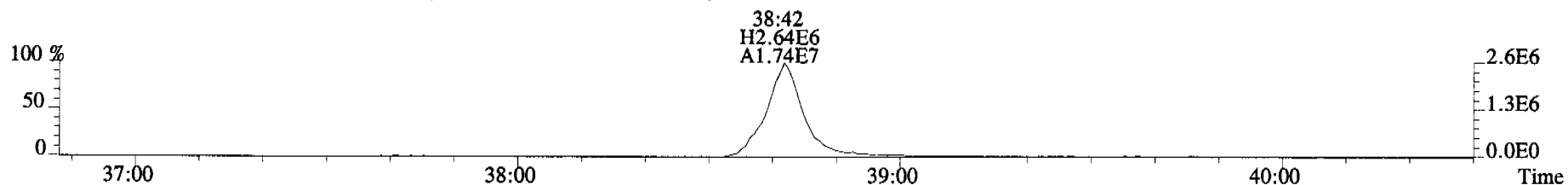
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423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



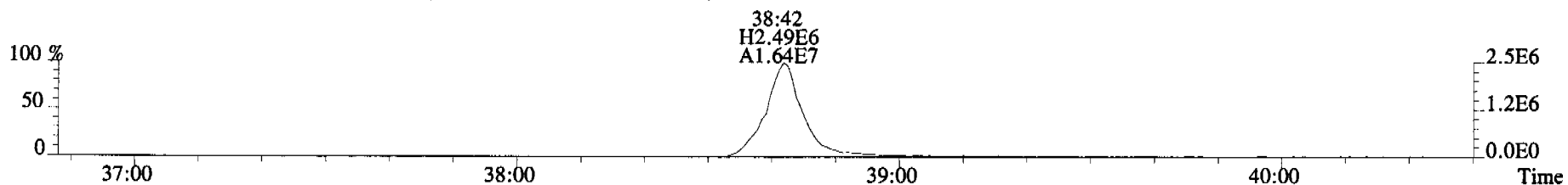
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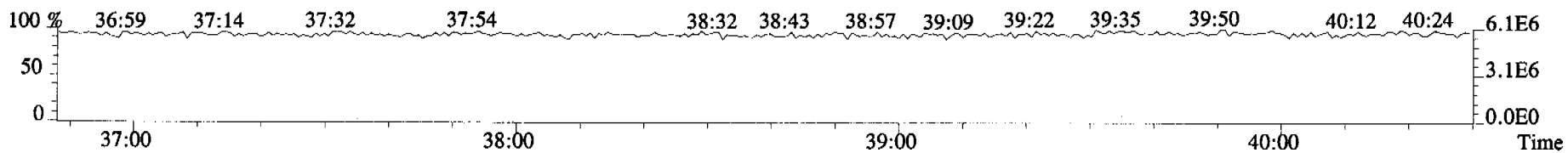
435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



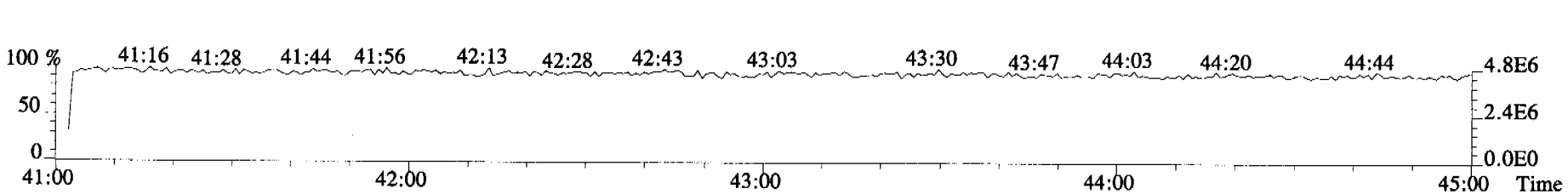
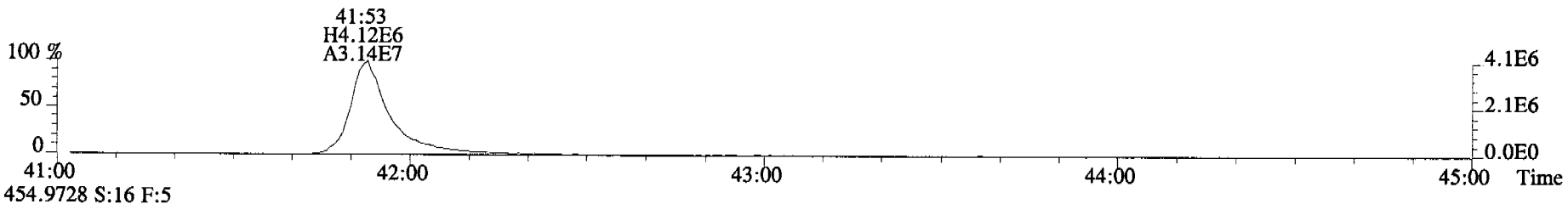
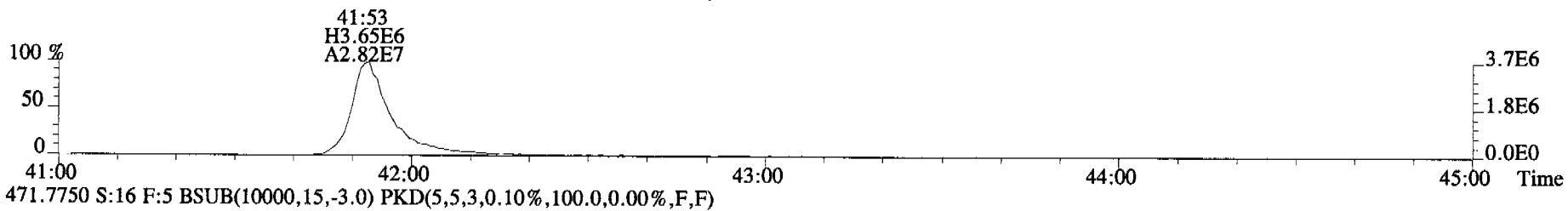
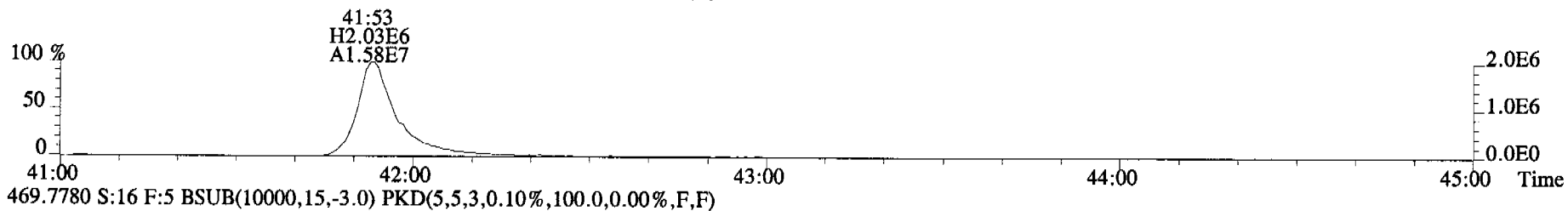
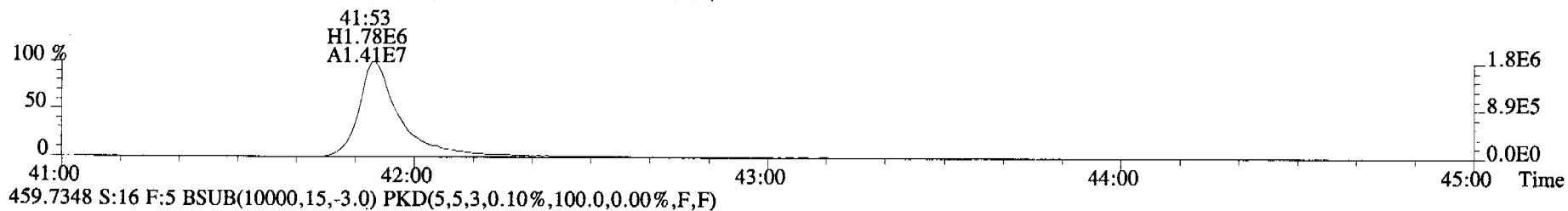
437.8140 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



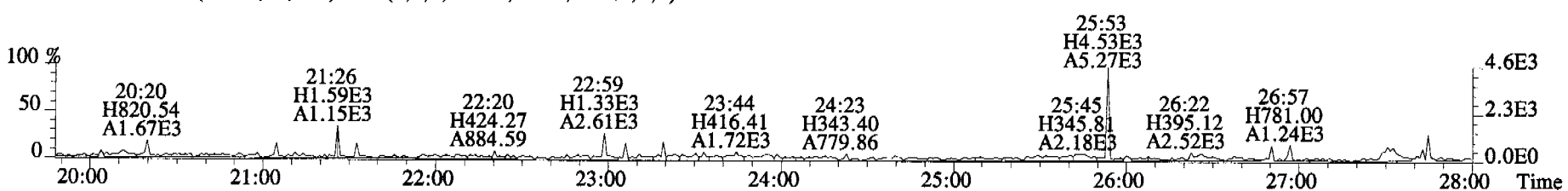
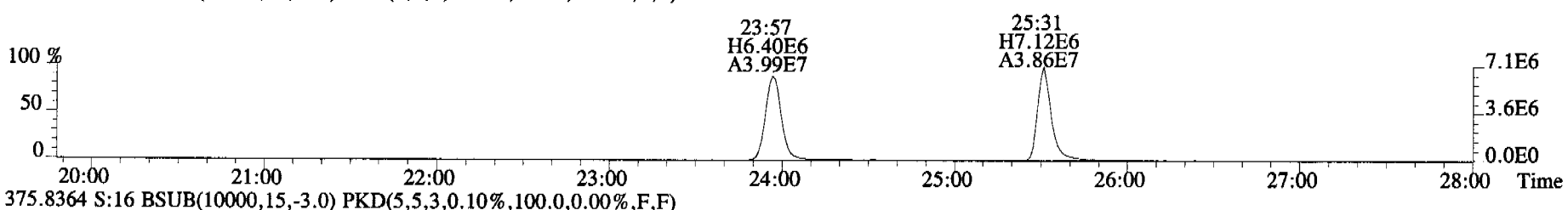
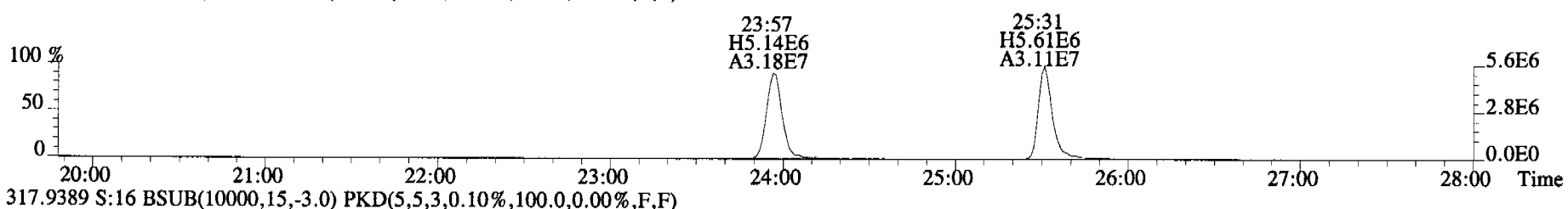
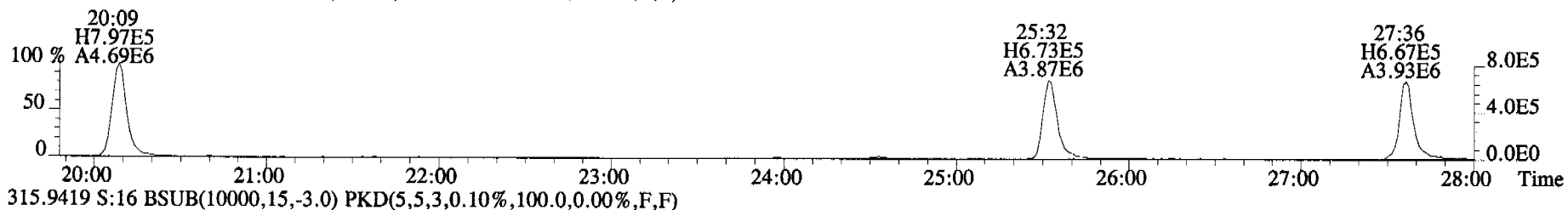
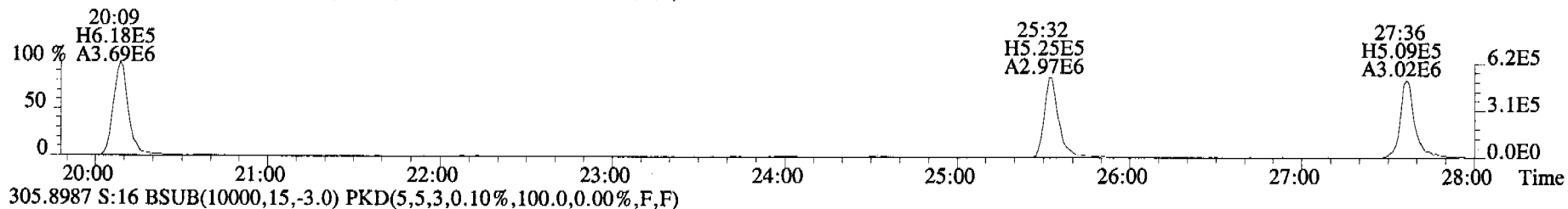
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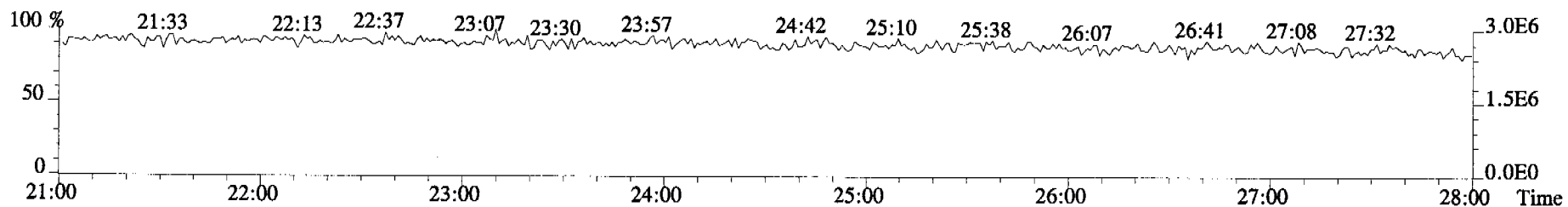
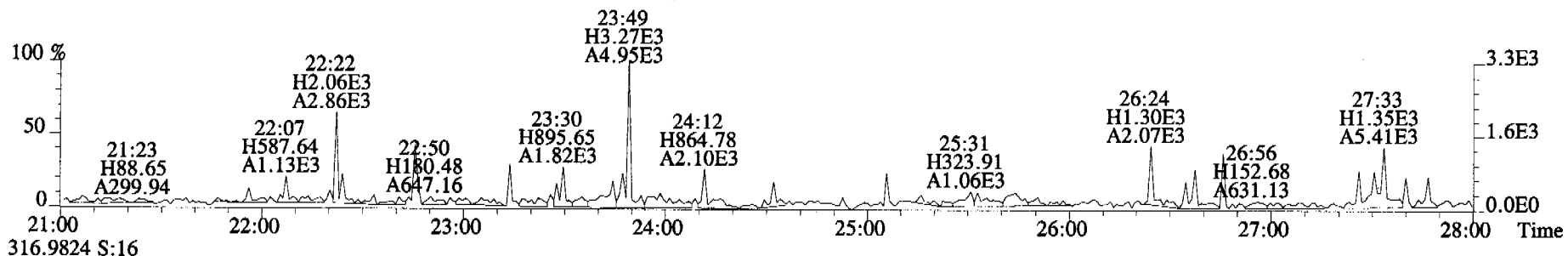
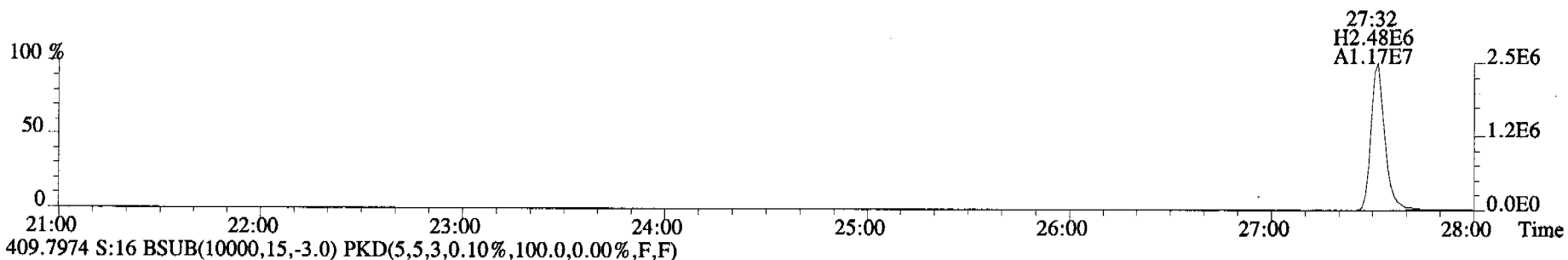
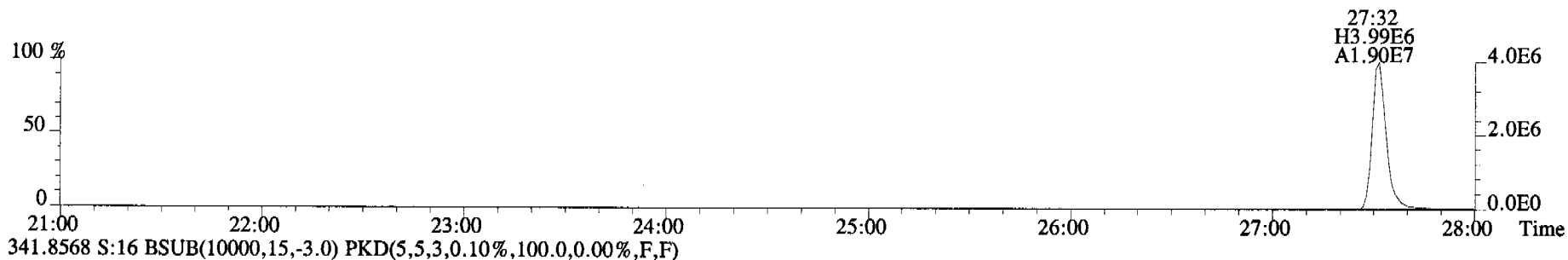
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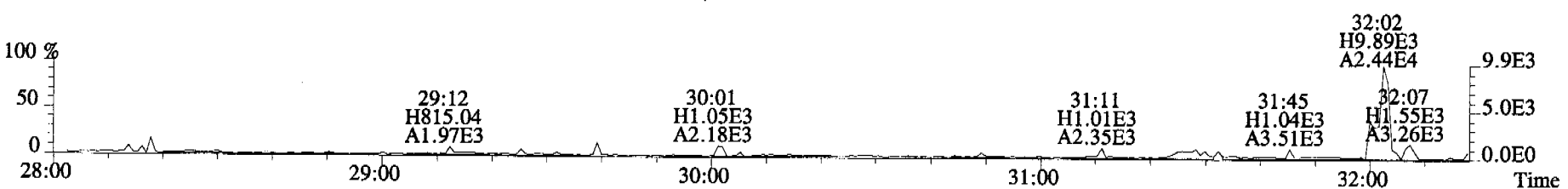
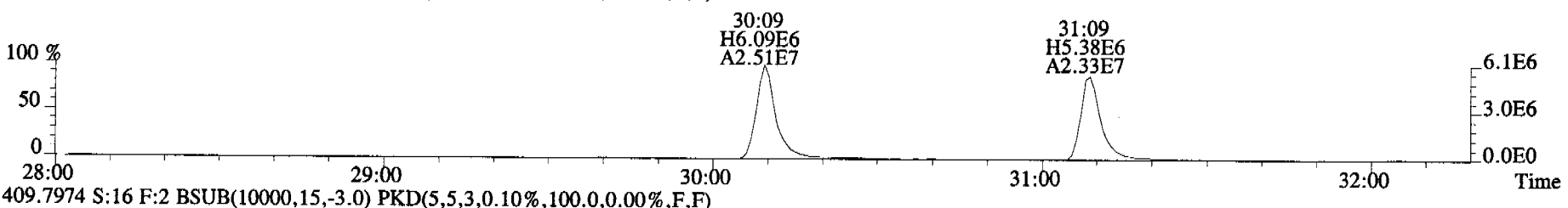
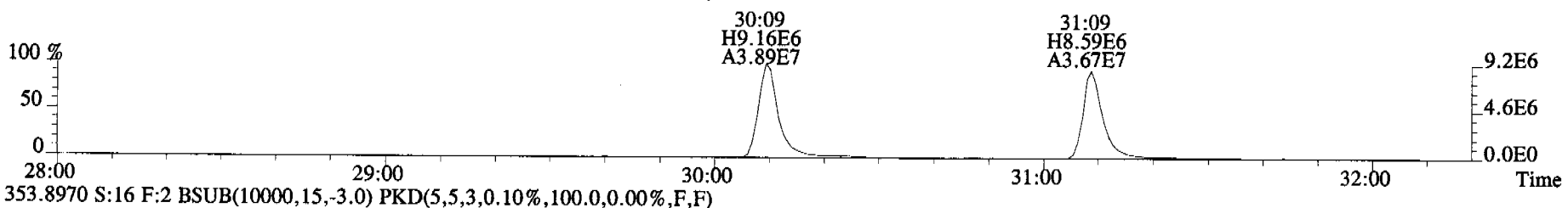
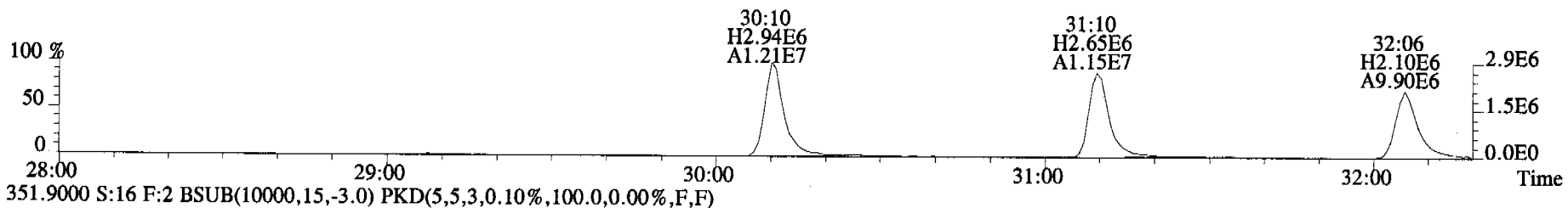
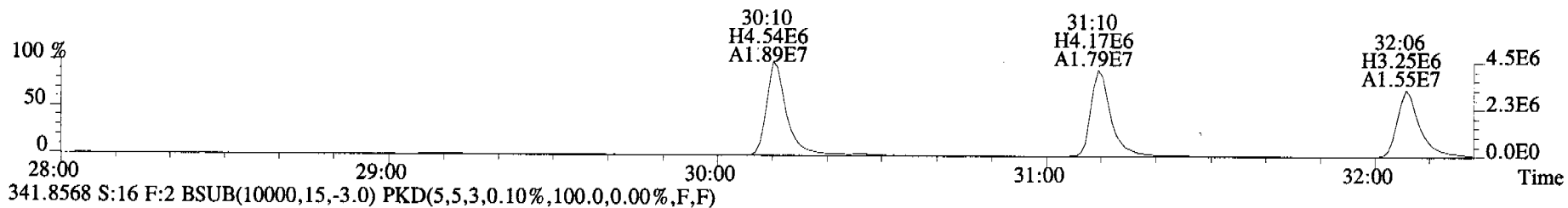
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



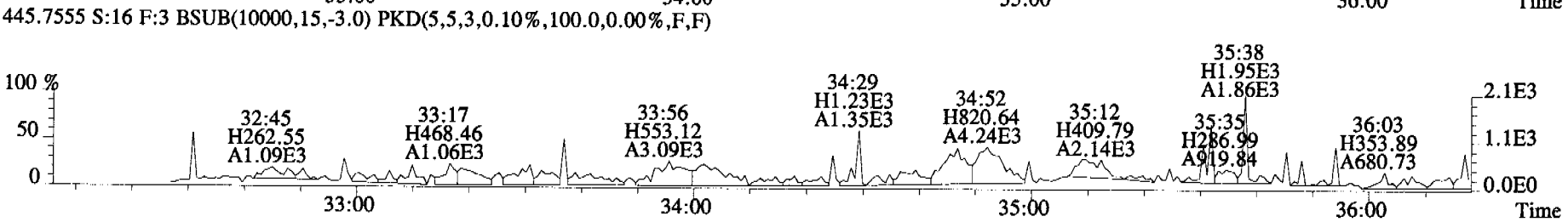
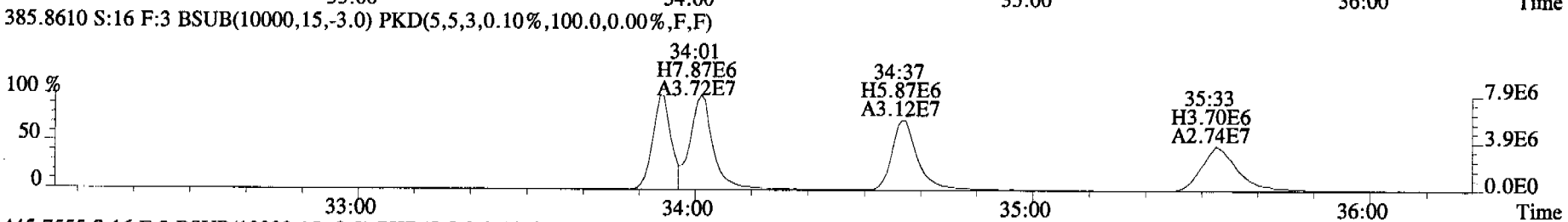
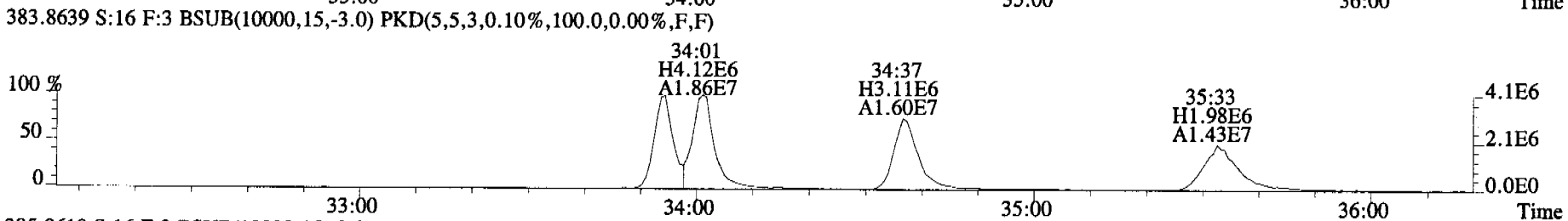
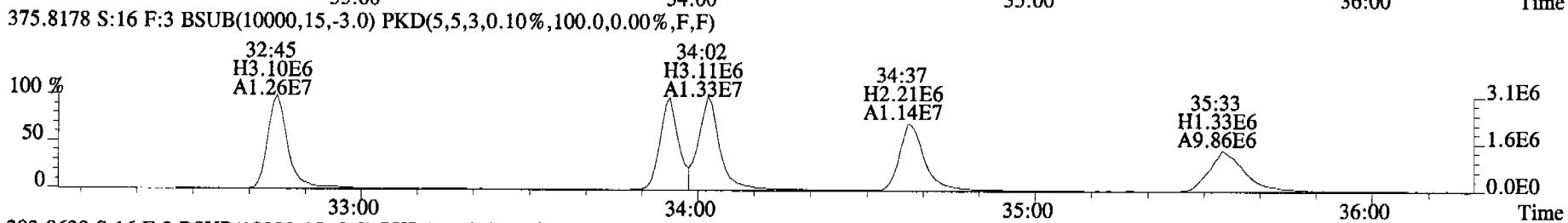
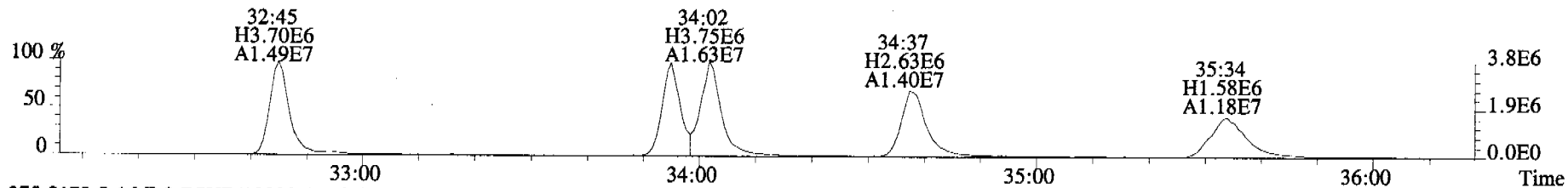
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



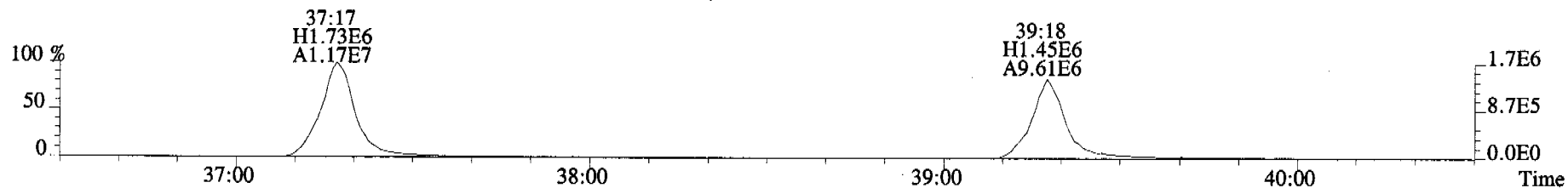
File:060920C2 #1-324 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



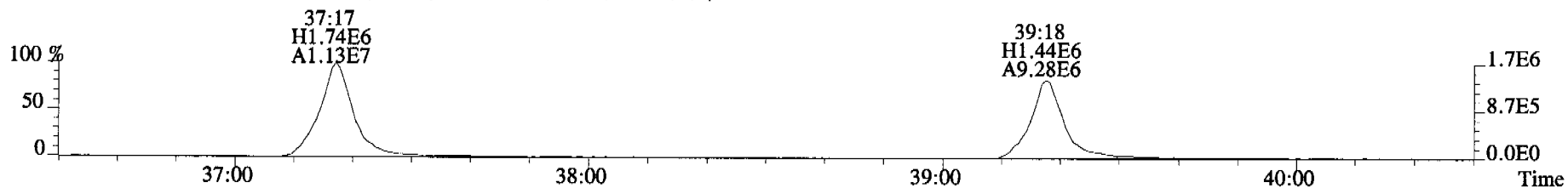
File:060920C2 #1-363 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



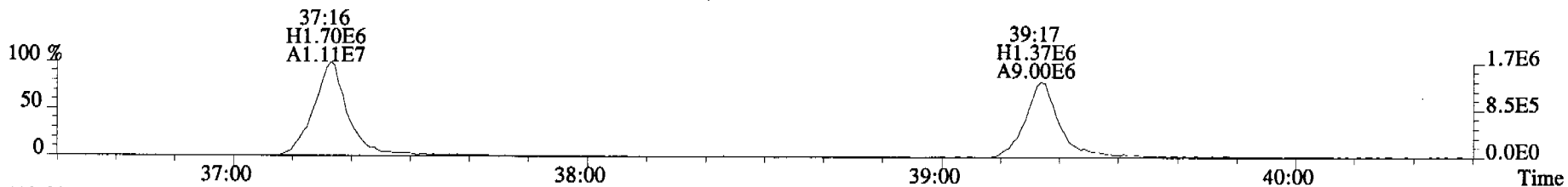
File:060920C2 #1-400 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



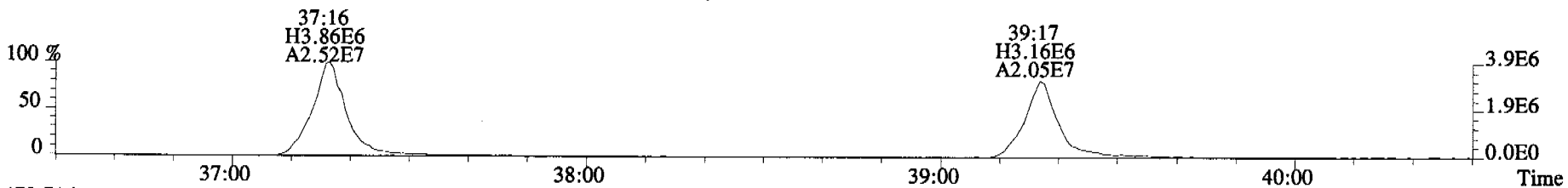
409.7788 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



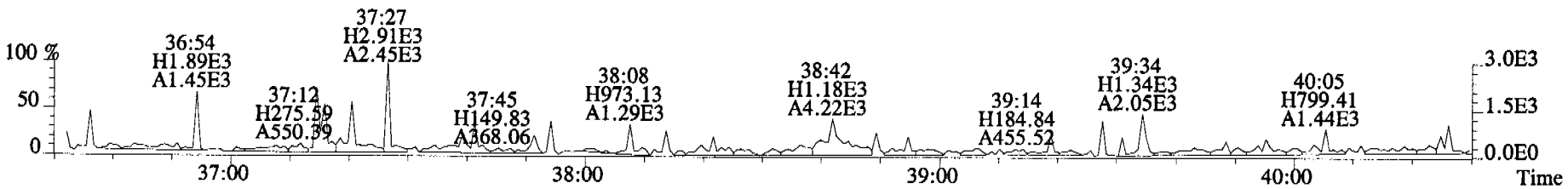
417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



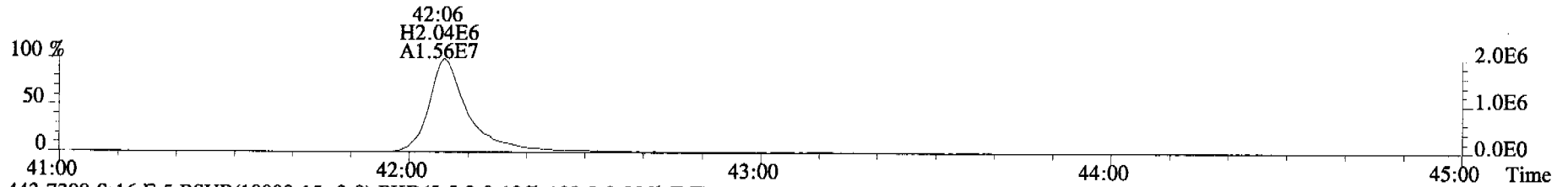
419.8220 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



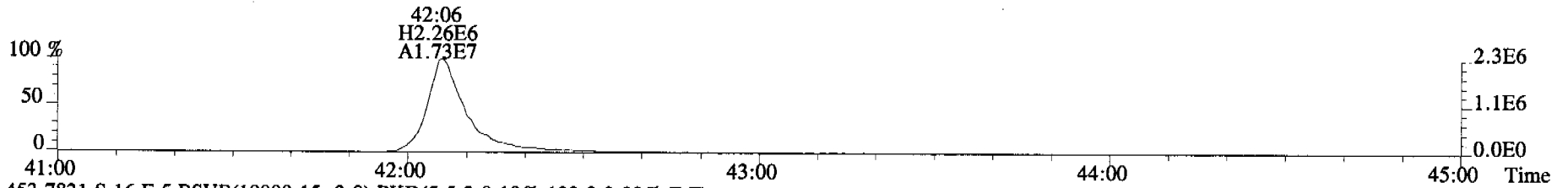
479.7165 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



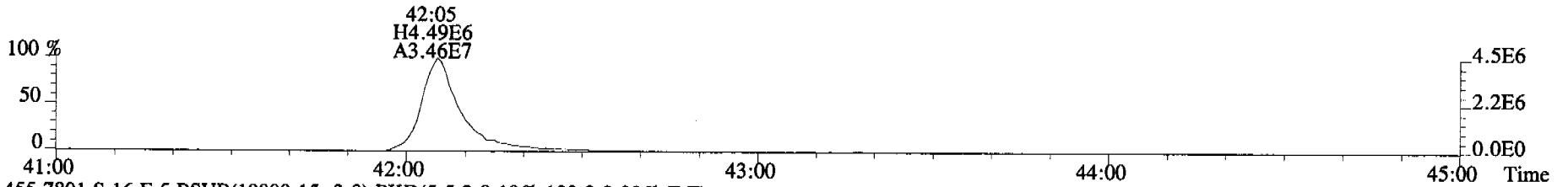
File:060920C2 #1-345 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



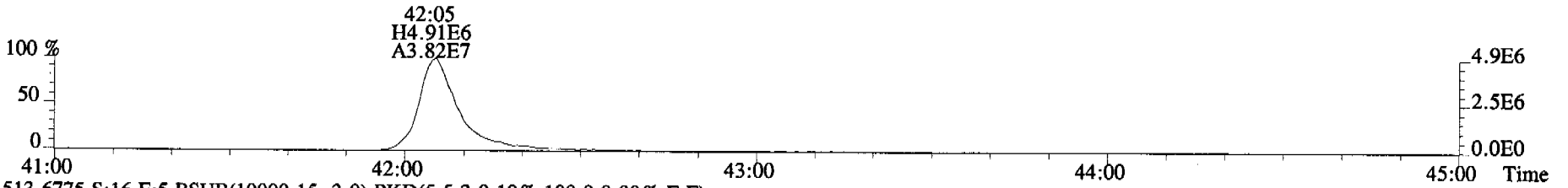
443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



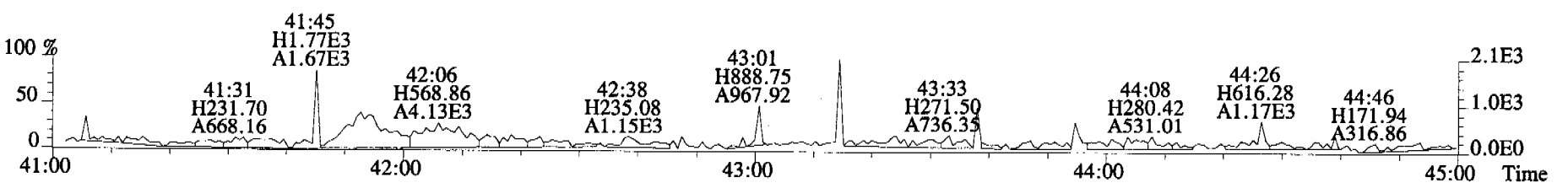
453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

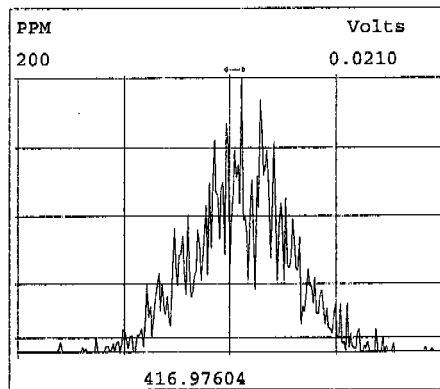
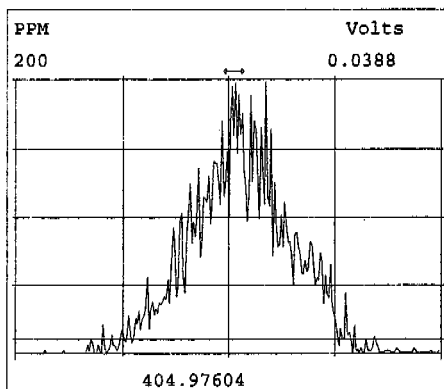
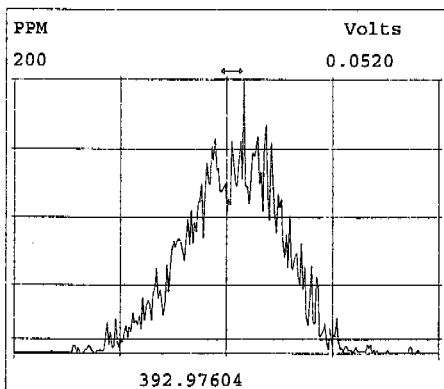
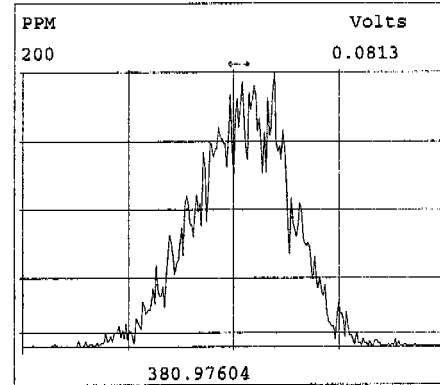
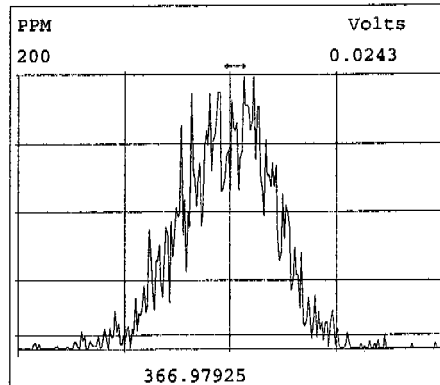
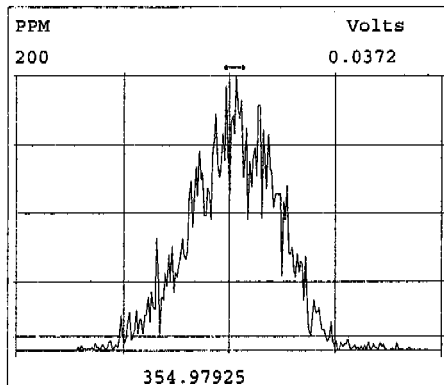
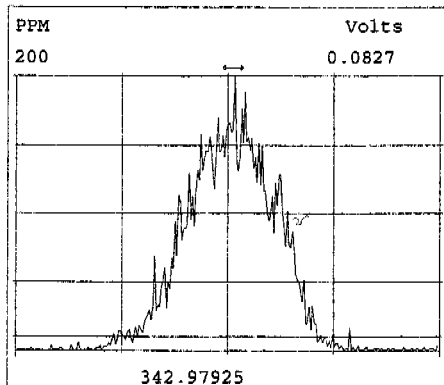
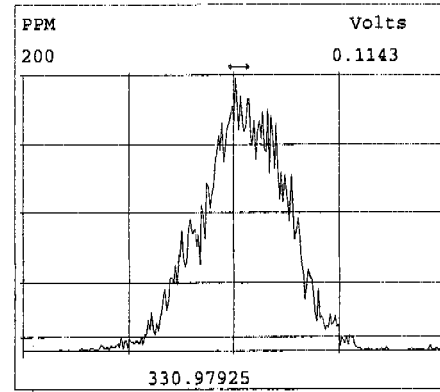
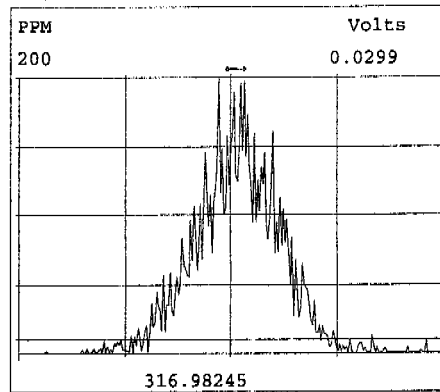
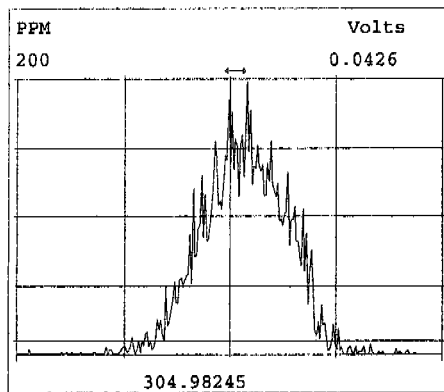
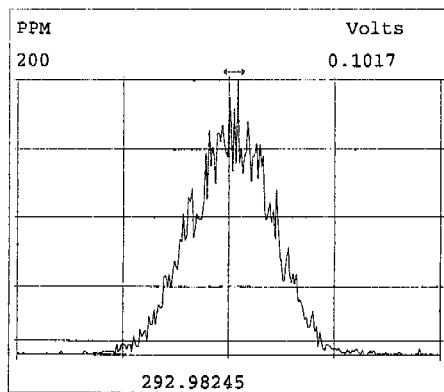


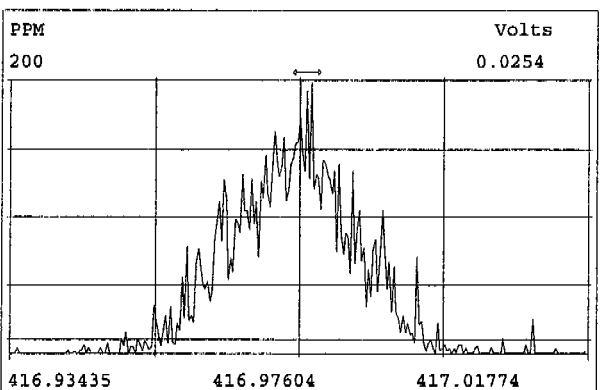
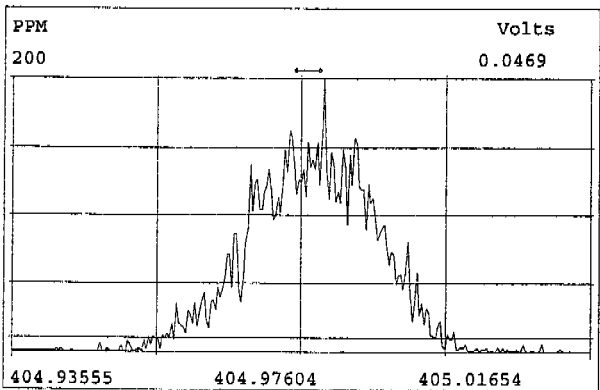
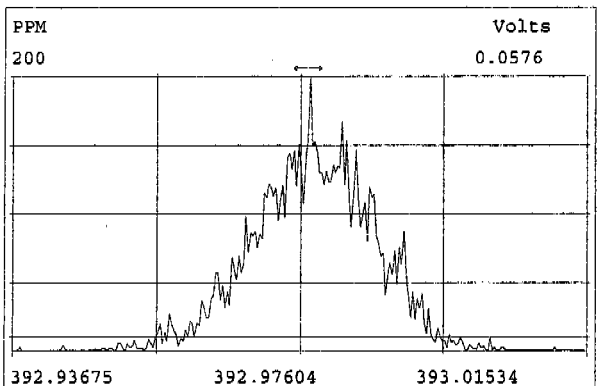
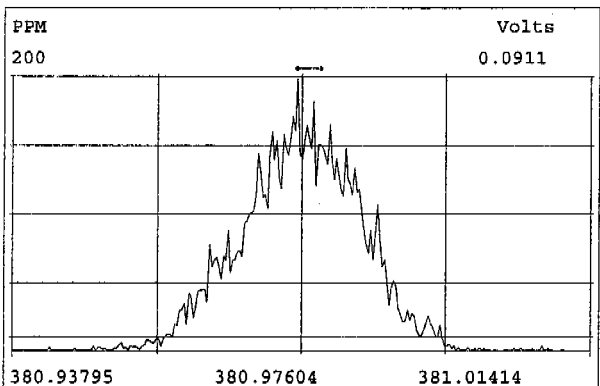
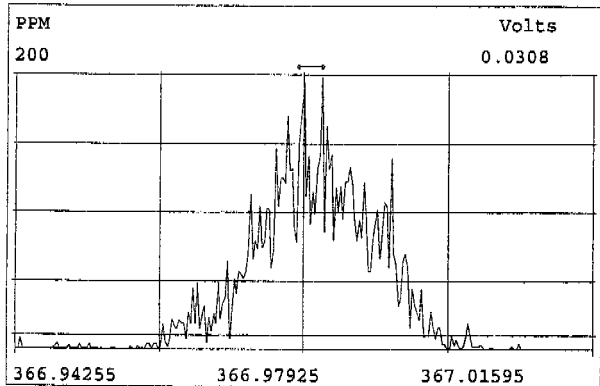
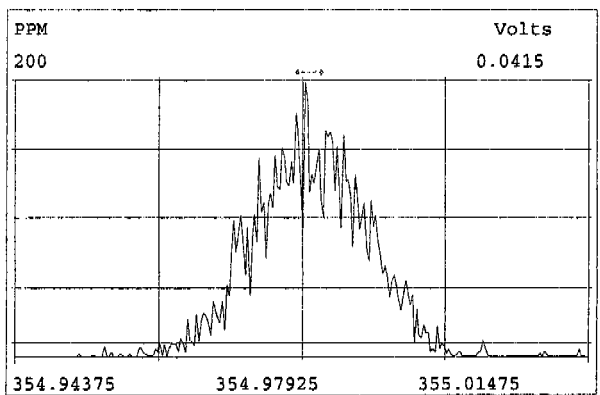
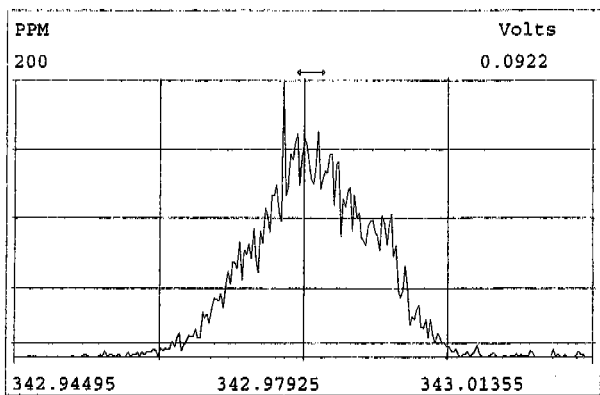
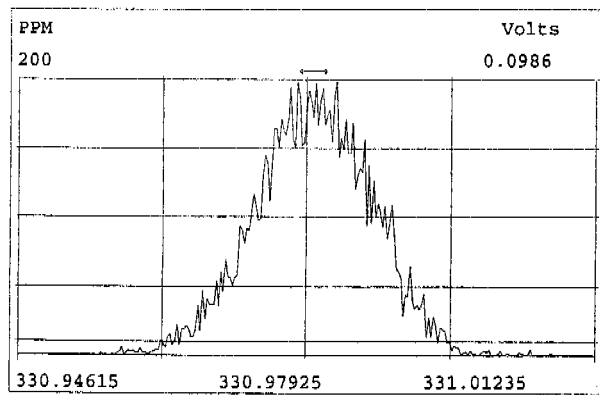
455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

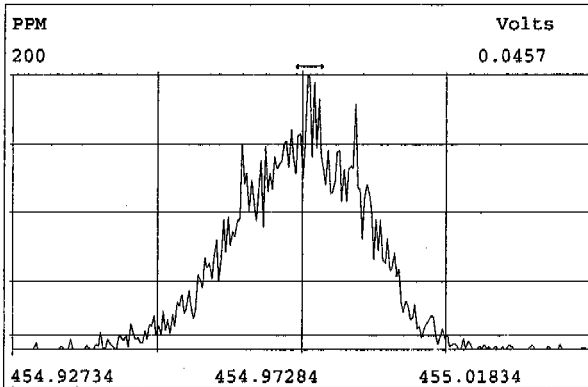
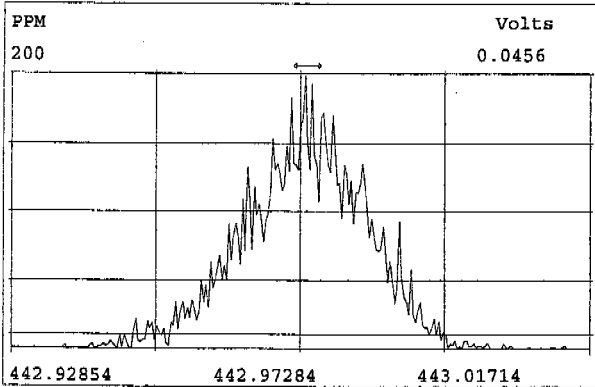
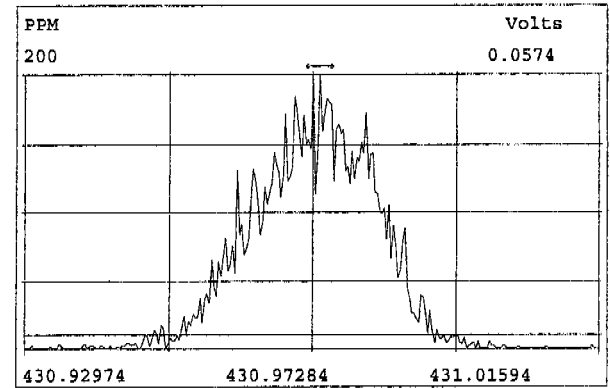
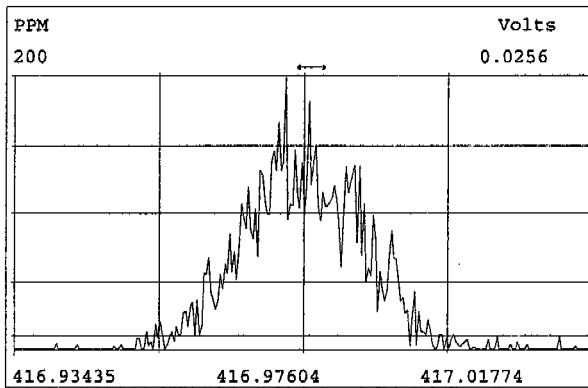
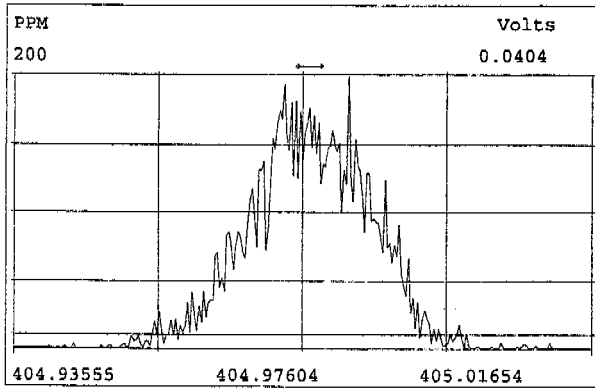
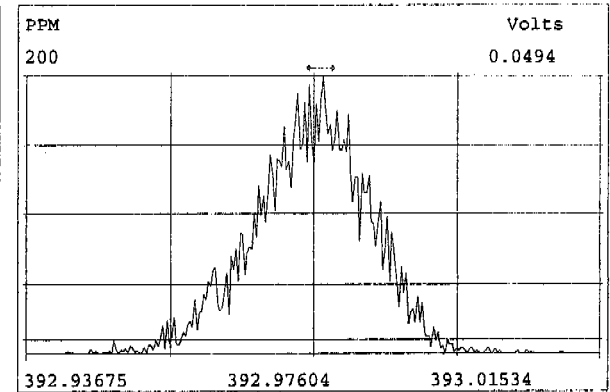
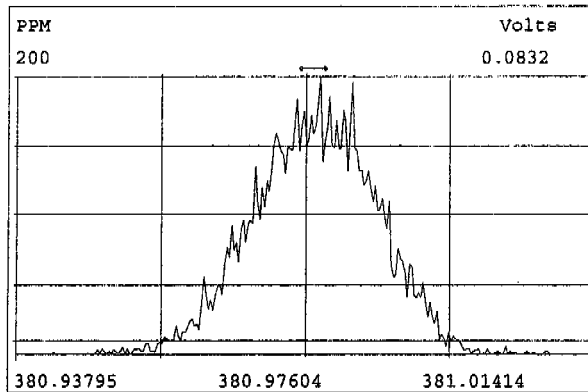
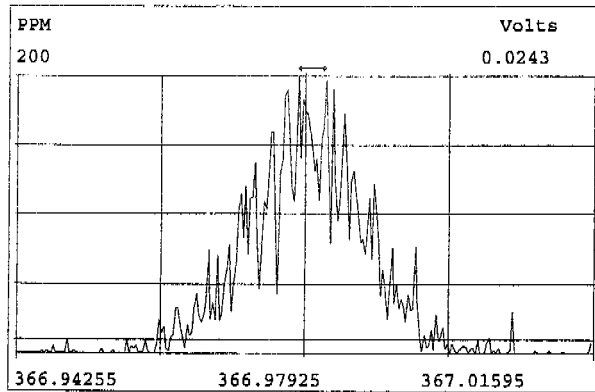


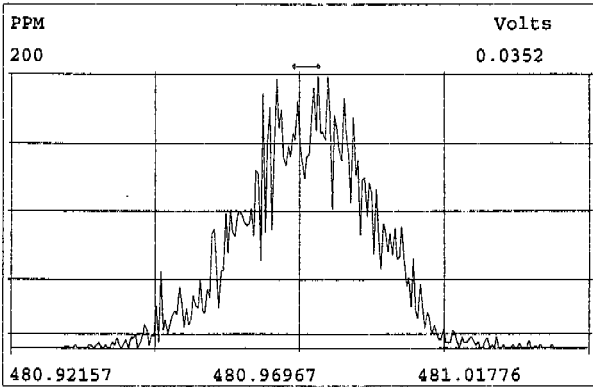
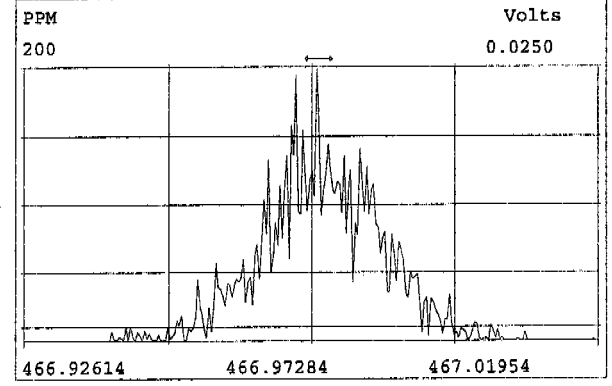
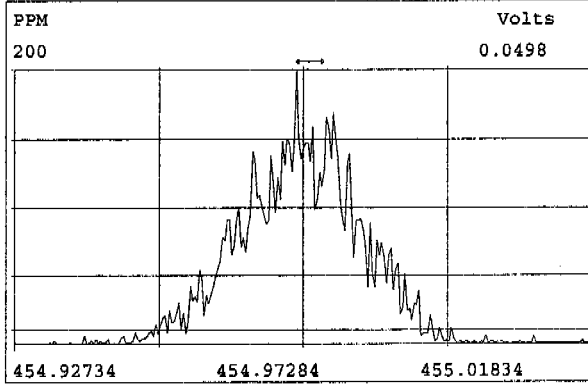
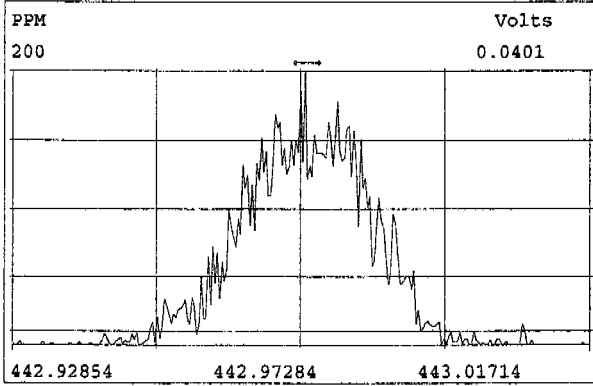
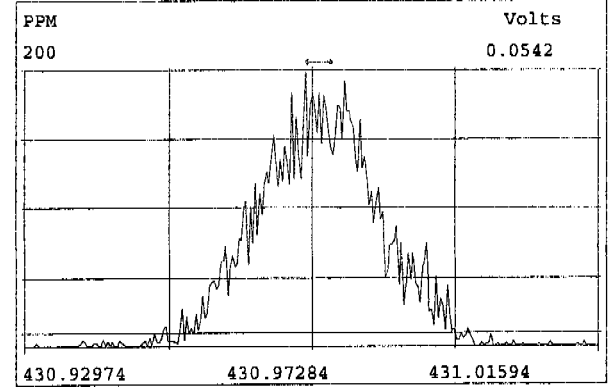
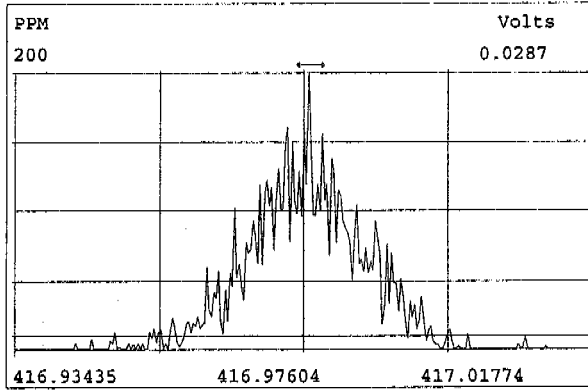
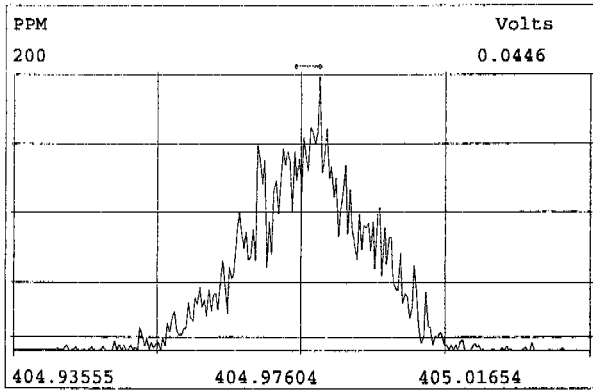
513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

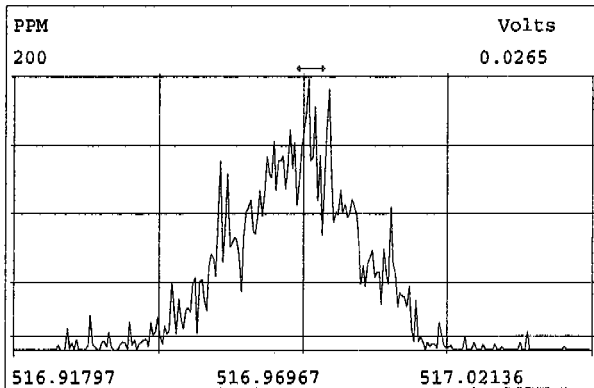
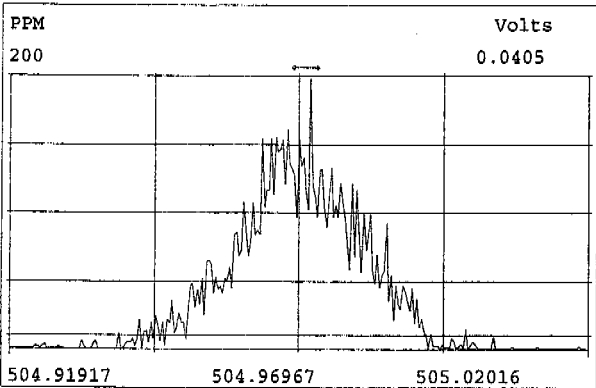
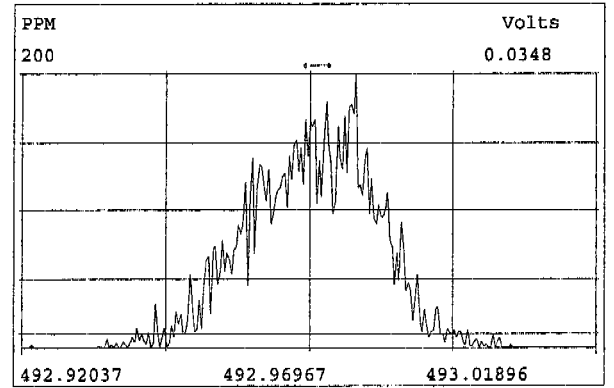
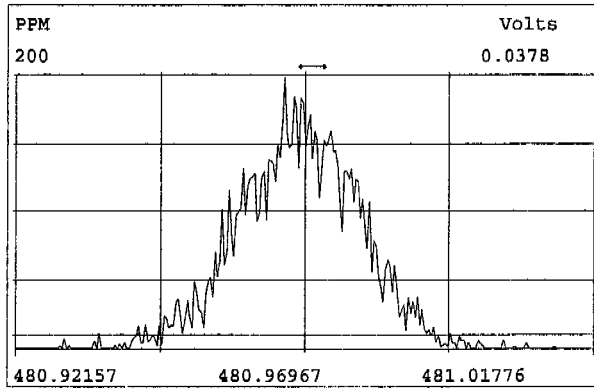
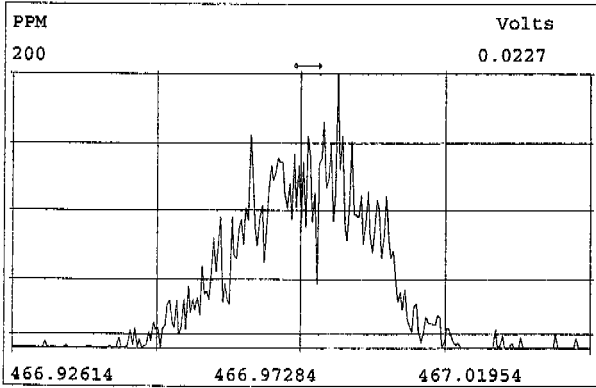
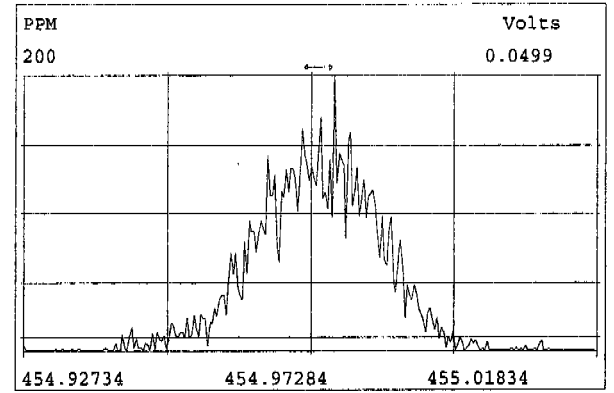
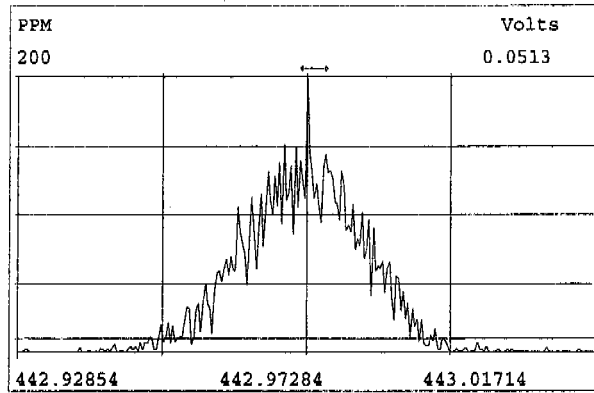
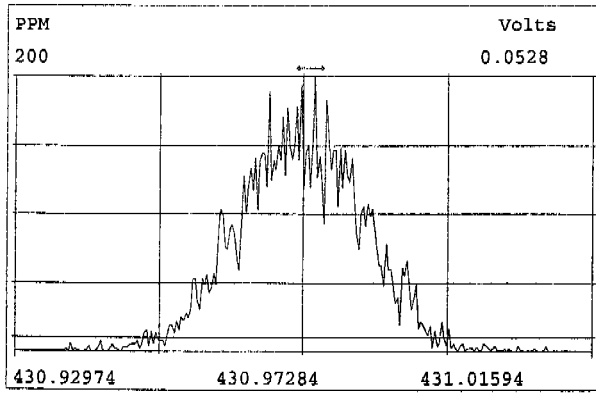












SAMPLE DATA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.08	NotF ₇	*		1130	2.5	1.20	Total Tetra-Dioxins	*	*		1130	1.20
1,2,3,7,8-PeCDD	*	* n	1.03	NotF ₇	*		1970	2.5	1.85	Total Penta-Dioxins	*	*		4610	4.32
1,2,3,4,7,8-HxCDD	*	* n	1.13	NotF ₇	*		775	2.5	1.14	Total Hexa-Dioxins	*	*		775	1.16
1,2,3,6,7,8-HxCDD	*	* n	1.03	NotF ₇	*		775	2.5	1.19	Total Hepta-Dioxins	*	*		1030	2.51
1,2,3,7,8,9-HxCDD	*	* n	1.12	NotF ₇	*		775	2.5	1.13	Total Tetra-Furans	*	*		1530	1.33
1,2,3,4,6,7,8-HpCDD	*	* n	1.02	NotF ₇	*		1030	2.5	2.51	Total Penta-Furans	0.0000	0.0000		3110	3.42
OCDD	*	* n	1.06	NotF ₇	*		1640	2.5	4.89	Total Hexa-Furans	*	*		961	0.802
										Total Hepta-Furans	*	*		868	1.37
2,3,7,8-TCDF	*	* n	1.06	NotF ₇	*		1530	2.5	1.33						
1,2,3,7,8-PeCDF	*	* n	1.01	NotF ₇	*		1810	2.5	1.97						
2,3,4,7,8-PeCDF	*	* n	1.02	NotF ₇	*		1810	2.5	2.01						
1,2,3,4,7,8-HxCDF	*	* n	1.15	NotF ₇	*		961	2.5	0.613						
1,2,3,6,7,8-HxCDF	*	* n	1.14	NotF ₇	*		961	2.5	0.579						
2,3,4,6,7,8-HxCDF	*	* n	1.17	NotF ₇	*		961	2.5	0.710						
1,2,3,7,8,9-HxCDF	*	* n	1.10	NotF ₇	*		961	2.5	1.63						
1,2,3,4,6,7,8-HpCDF	*	* n	1.31	NotF ₇	*		868	2.5	1.21						
1,2,3,4,7,8,9-HpCDF	*	* n	1.33	NotF ₇	*		868	2.5	1.60						
OCDF	*	* n	0.91	NotF ₇	*		1190	2.5	3.80						

Rec Qual

IS	13C-2,3,7,8-TCDD	3.65e+07	0.80 y	1.09	26:24	1610.3	80.5
IS	13C-1,2,3,7,8-PeCDD	3.10e+07	0.61 y	1.04	31:24	1428.4	71.4
IS	13C-1,2,3,4,7,8-HxCDD	2.67e+07	1.25 y	0.83	34:43	1668.3	83.4
IS	13C-1,2,3,6,7,8-HxCDD	3.32e+07	1.27 y	1.04	34:50	1654.0	82.7
IS	13C-1,2,3,4,6,7,8-HpCDD	2.54e+07	1.05 y	0.85	38:39	1542.3	77.1
IS	13C-OCDD	3.87e+07	0.89 y	0.71	41:51	2809.4	70.2
IS	13C-2,3,7,8-TCDF	4.93e+07	0.78 y	0.96	25:30	1601.3	80.1
IS	13C-1,2,3,7,8-PeCDF	4.75e+07	1.60 y	1.02	30:08	1453.4	72.7
IS	13C-2,3,4,7,8-PeCDF	4.29e+07	1.57 y	1.02	31:07	1310.4	65.5
IS	13C-1,2,3,4,7,8-HxCDF	3.96e+07	0.52 y	1.14	33:52	1788.7	89.4
IS	13C-1,2,3,6,7,8-HxCDF	4.61e+07	0.52 y	1.40	33:59	1702.5	85.1
IS	13C-2,3,4,6,7,8-HxCDF	3.91e+07	0.51 y	1.26	34:35	1603.0	80.1
IS	13C-1,2,3,7,8,9-HxCDF	2.67e+07	0.51 y	1.08	35:30	1275.4	63.8
IS	13C-1,2,3,4,6,7,8-HpCDF	2.54e+07	0.45 y	0.93	37:14	1405.3	70.3
IS	13C-1,2,3,4,7,8,9-HpCDF	1.72e+07	0.42 y	0.77	39:14	1161.0	58.0
IS	13C-OCDF	4.14e+07	0.88 y	0.94	42:03	2268.3	56.7
C/Up	37C1-2,3,7,8-TCDD	1.05e+07		0.77	26:25	653.51	81.7
RS/RT	13C-1,2,3,4-TCDD	4.16e+07	0.83 y	1.00	25:42	2000.0	
RS	13C-1,2,3,4-TCDF	6.42e+07	0.78 y	1.00	23:56	2000.0	
RS/RT	13C-1,2,3,7,8,9-HxCDD	3.87e+07	1.25 y	1.00	35:07	2000.0	

Integrations

Reviewed

by

by

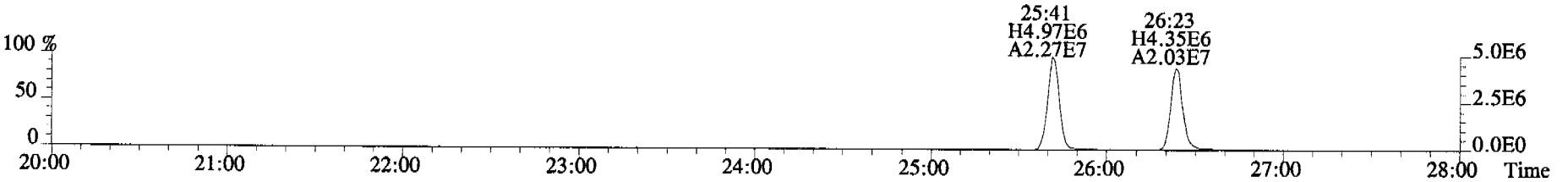
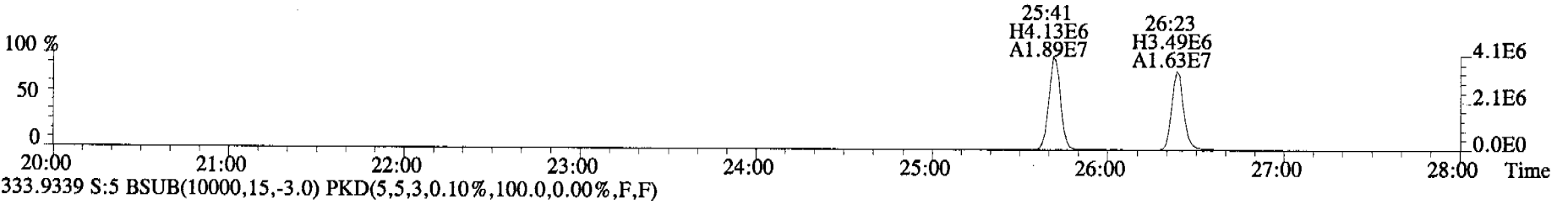
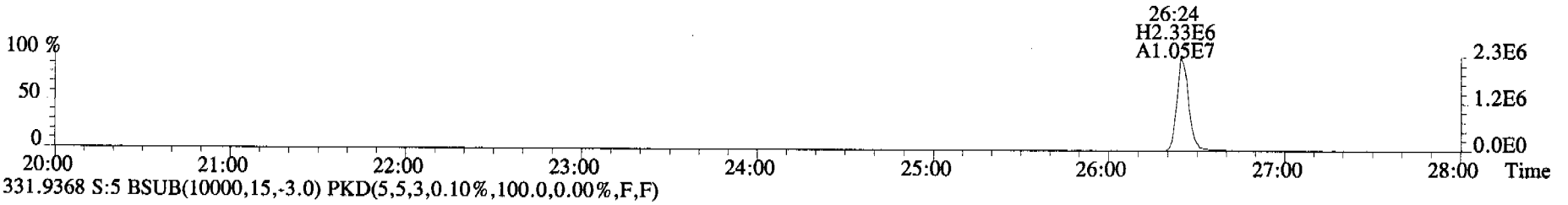
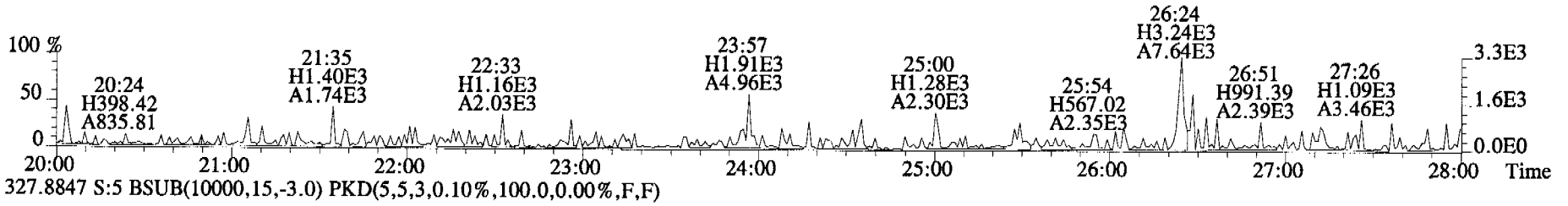
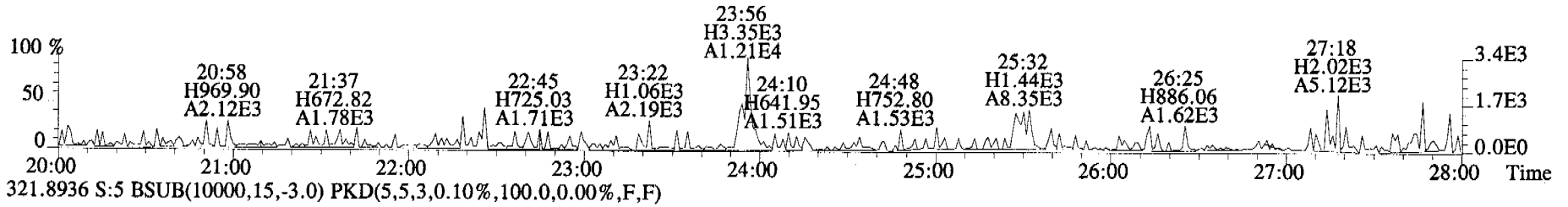
Analyst: MD

Analyst: LL

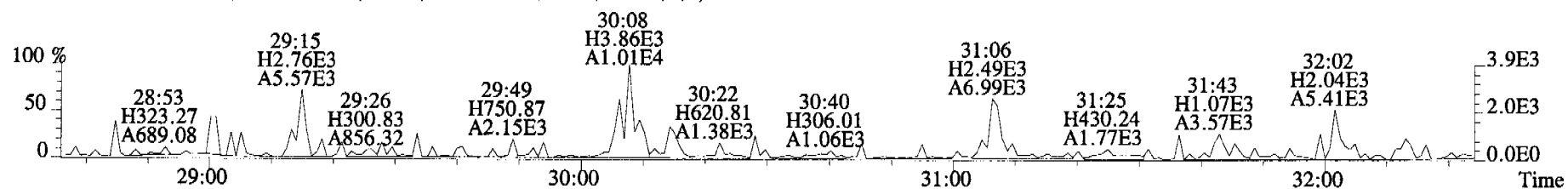
Date: 9/21/06

Date: 9/21/06

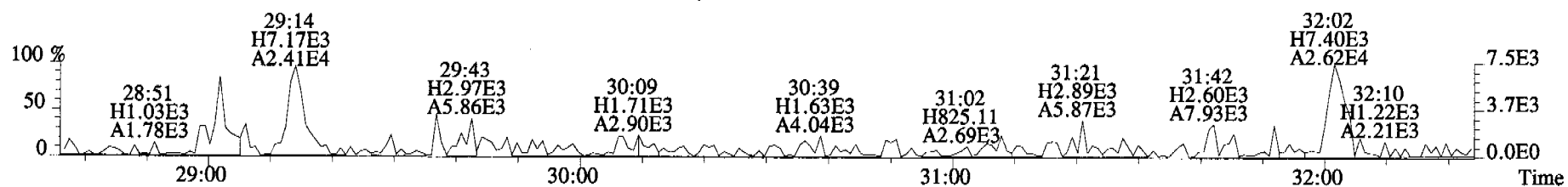
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



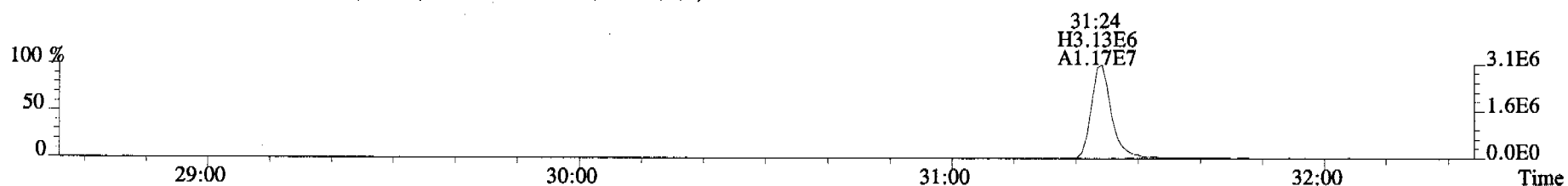
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0_8381_MB001 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



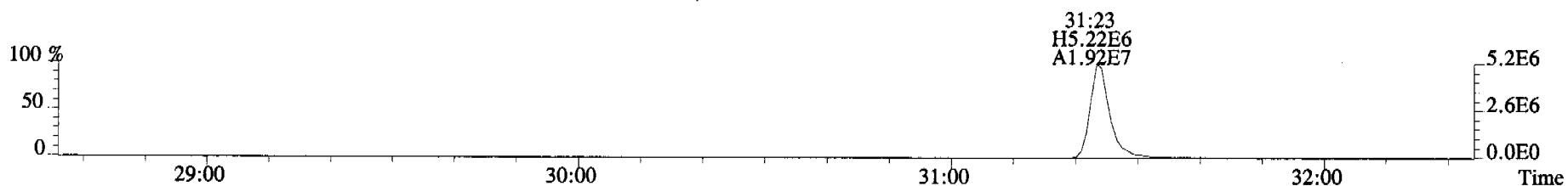
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



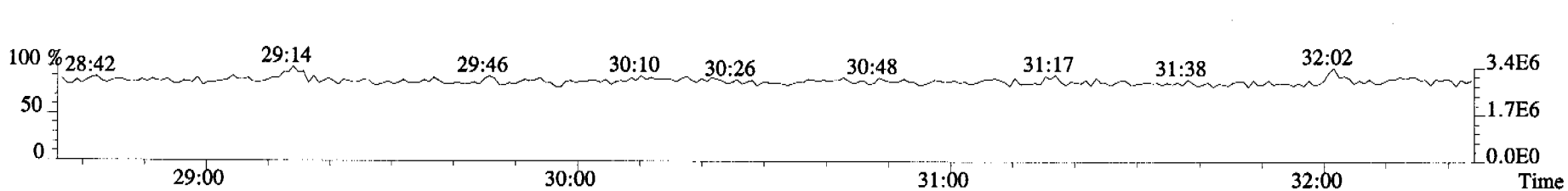
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



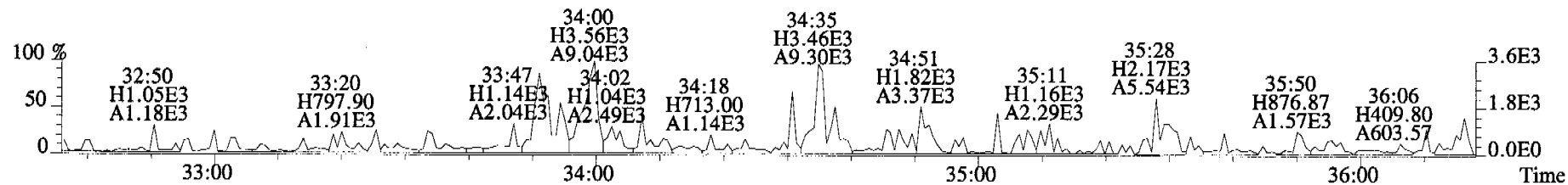
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



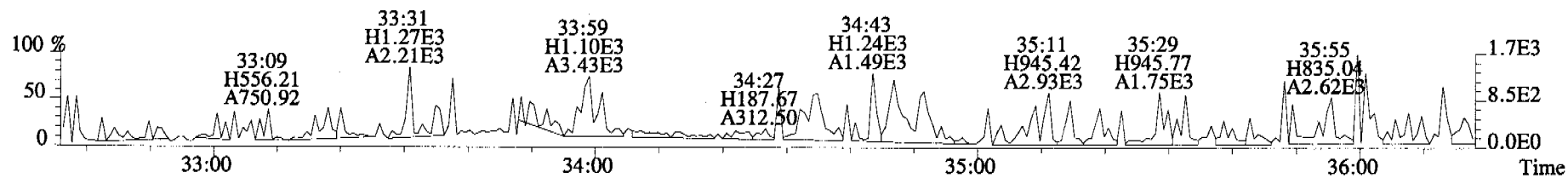
366.9792 S:5 F:2



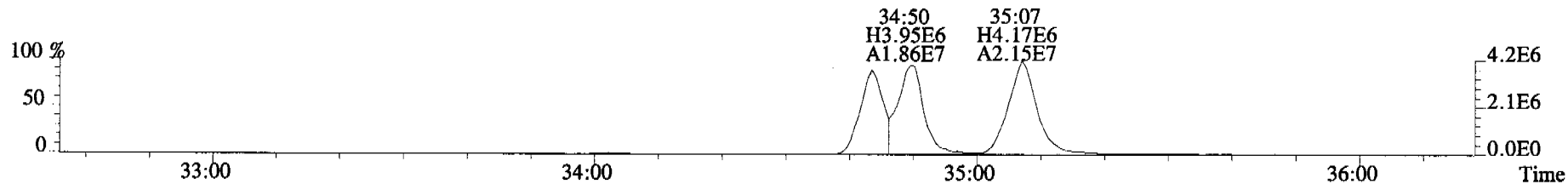
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



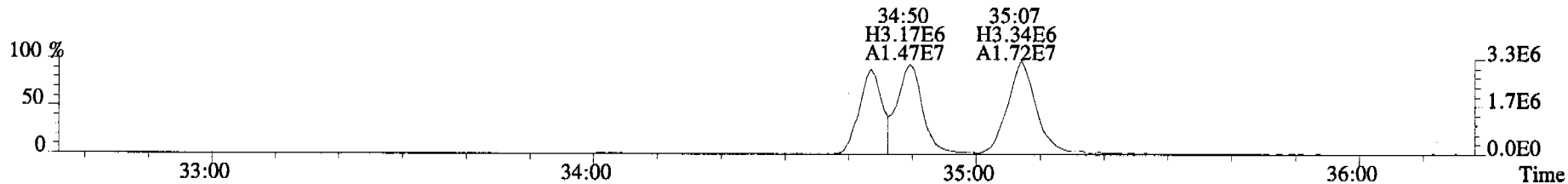
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



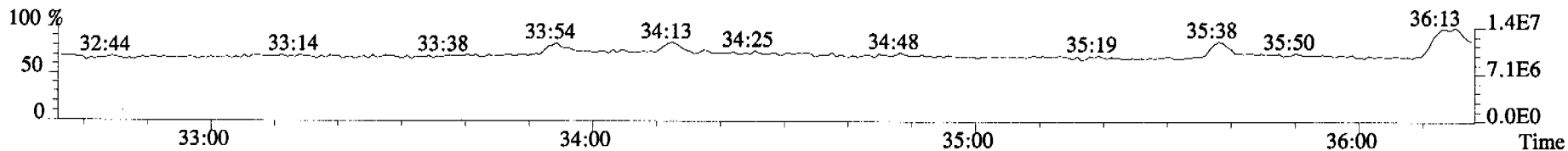
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



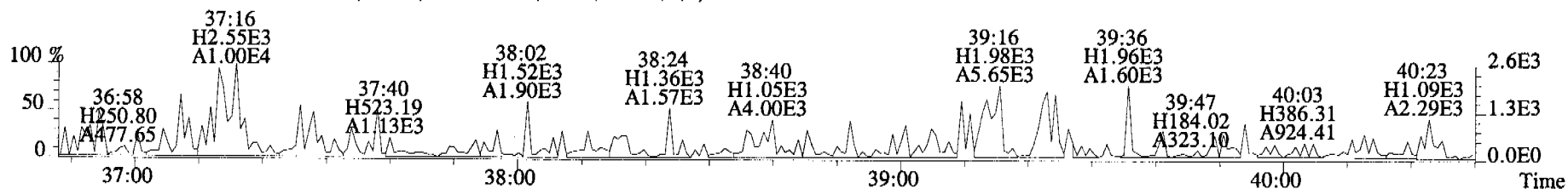
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



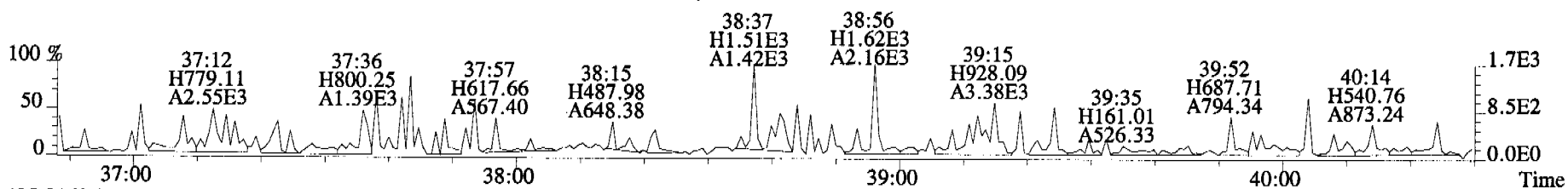
380.9760 S:5 F:3



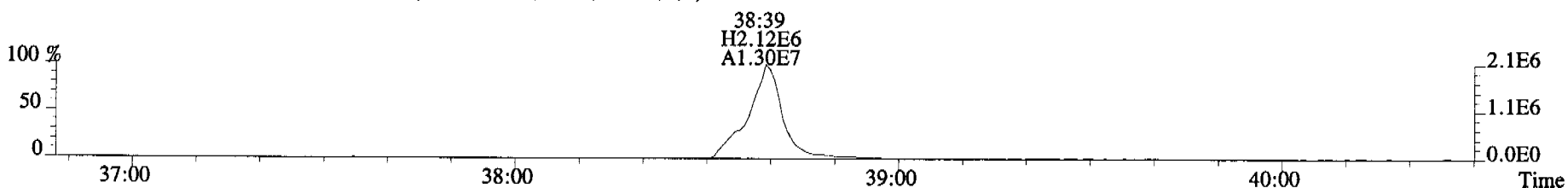
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0_8381_MB001_Exp:OCDD_DB5
423.7767 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



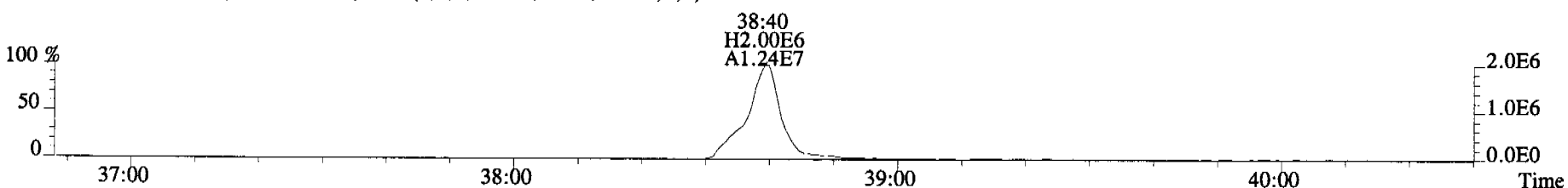
425.7737 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



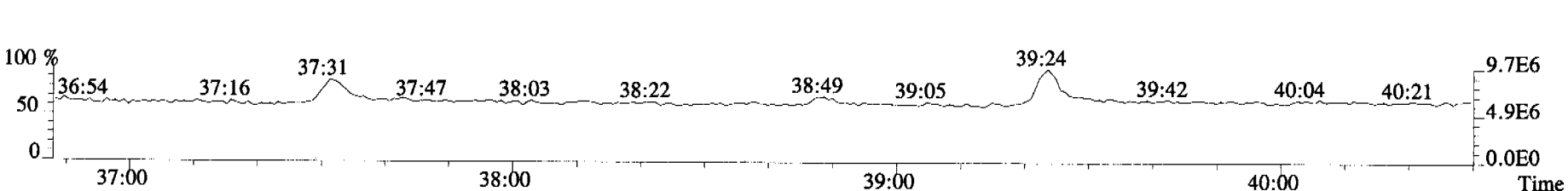
435.8169 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



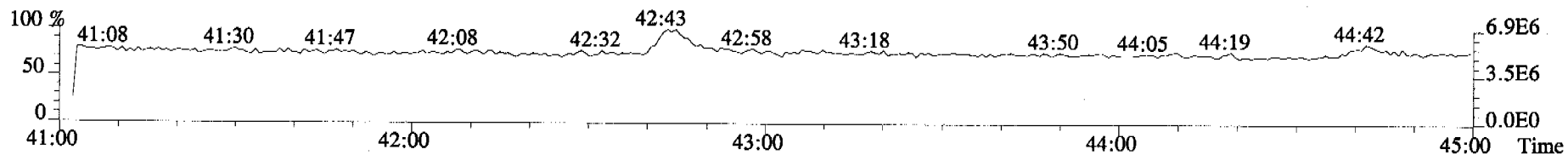
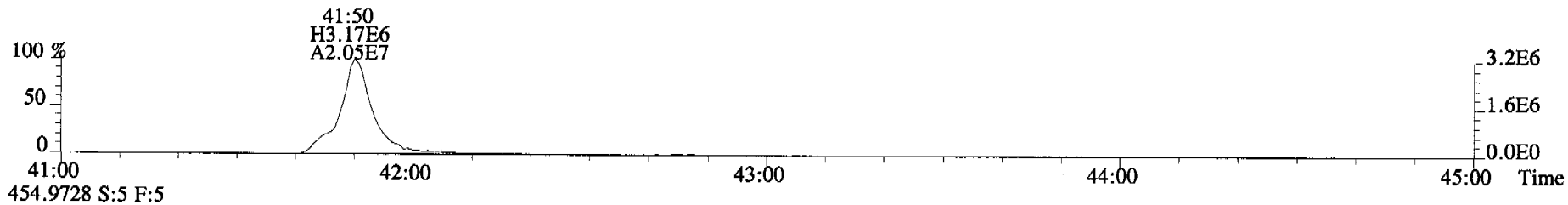
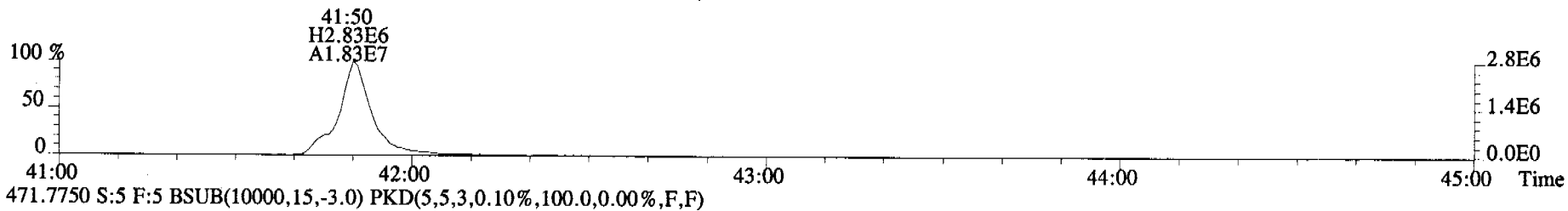
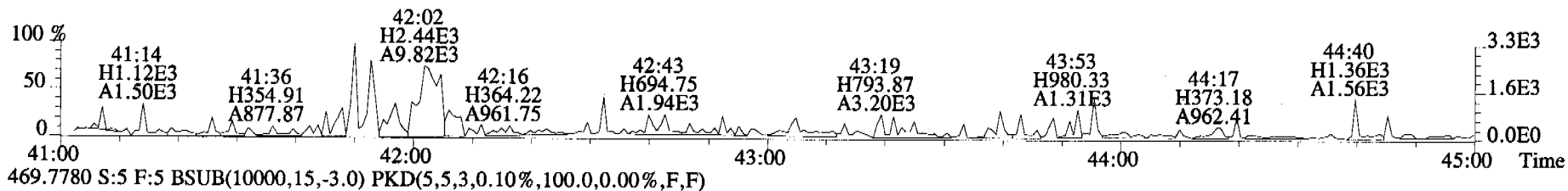
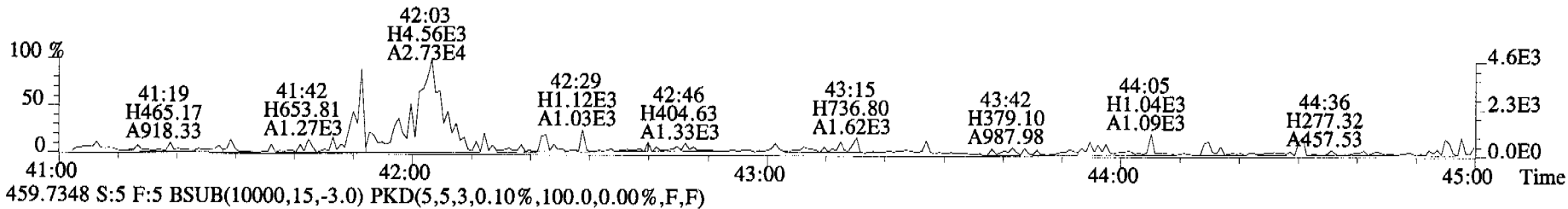
437.8140 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



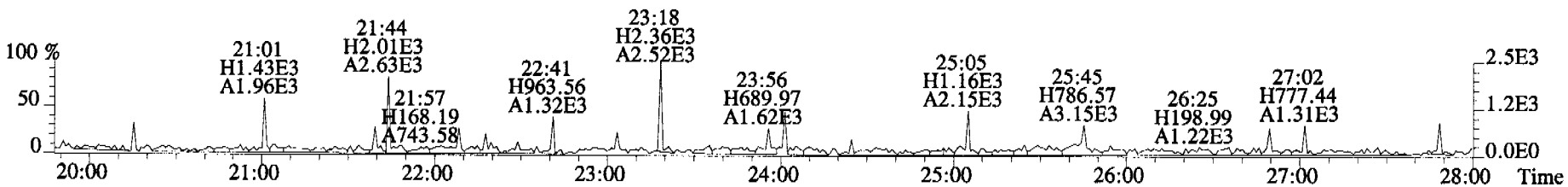
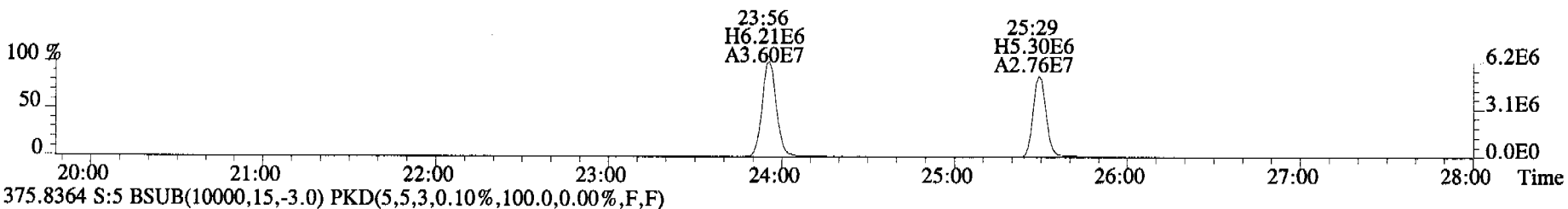
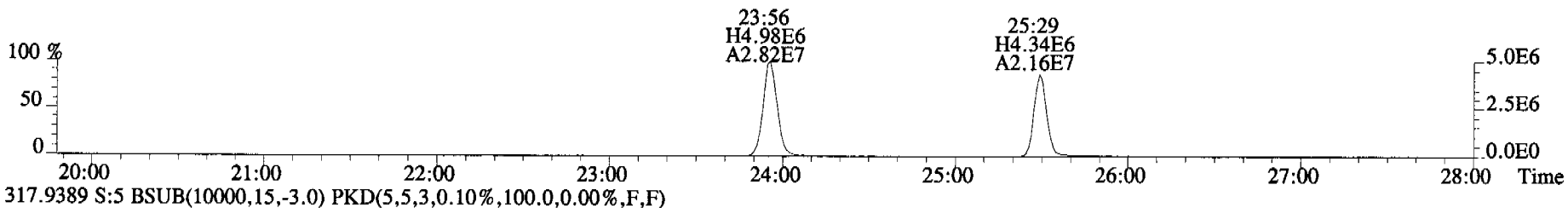
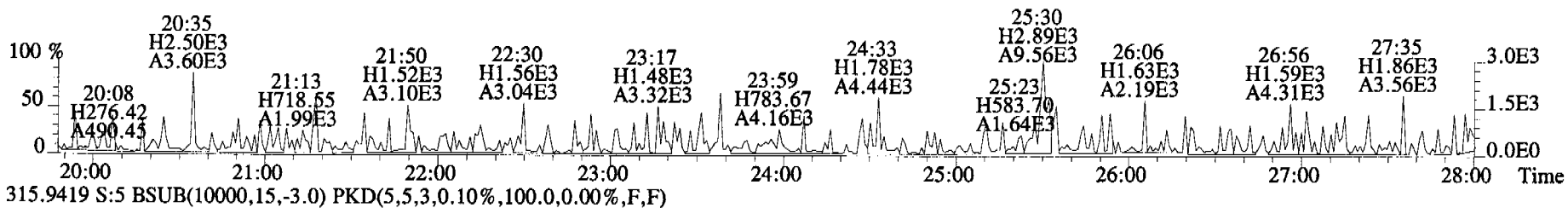
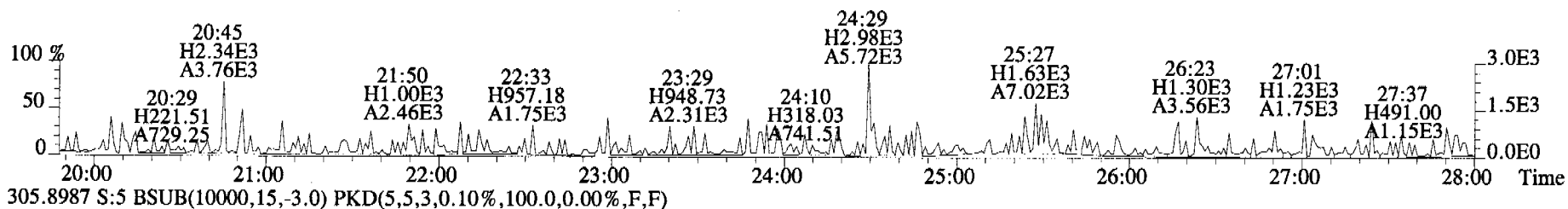
430.9728 S:5 F:4



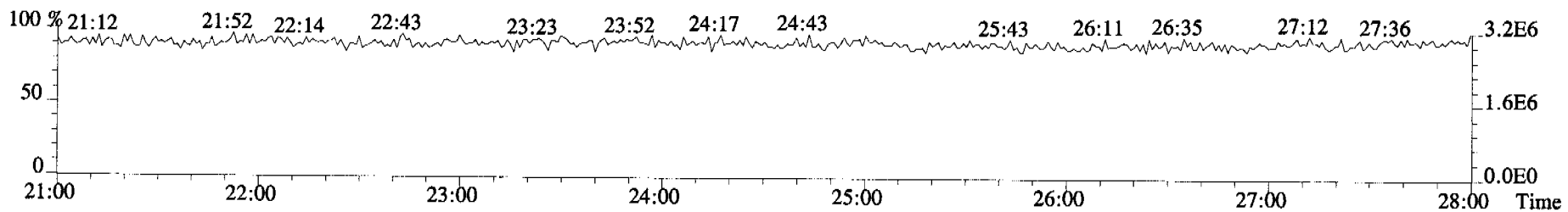
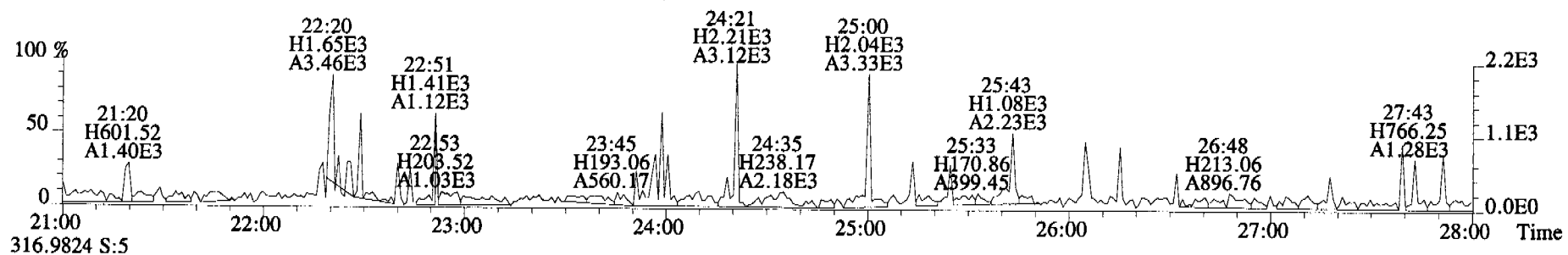
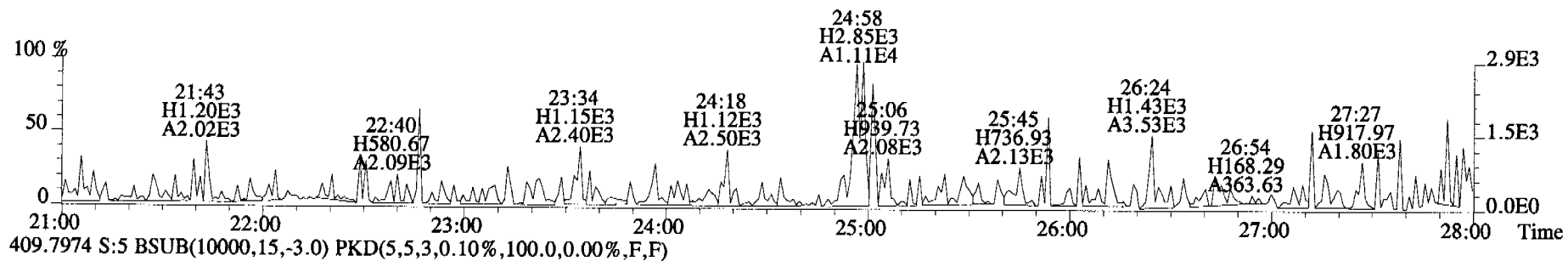
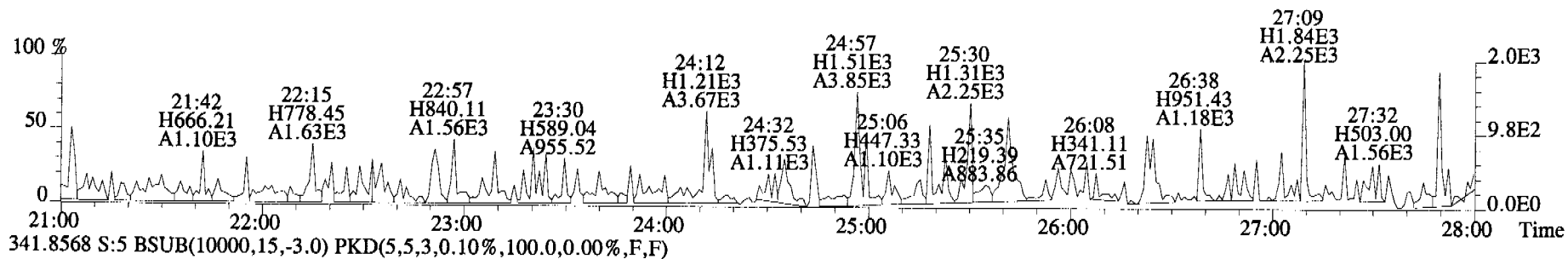
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



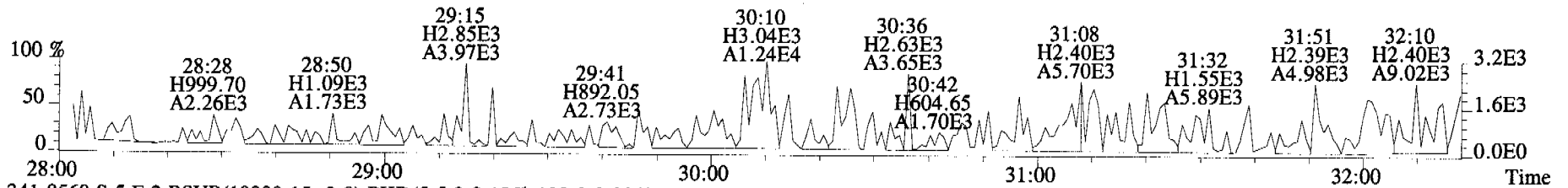
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



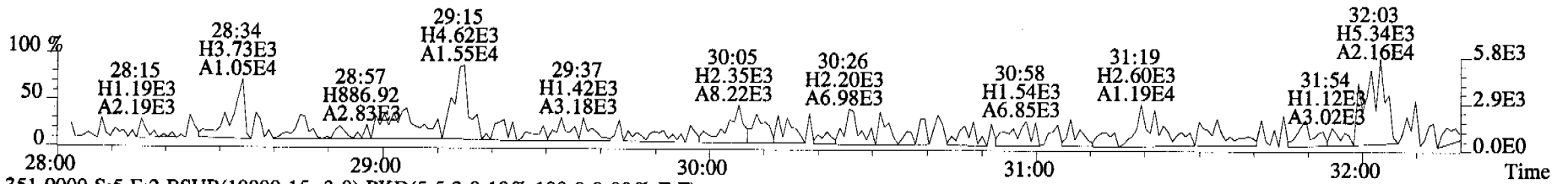
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Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



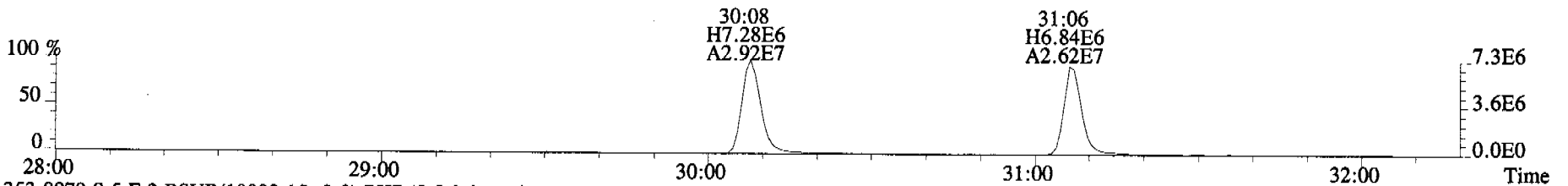
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



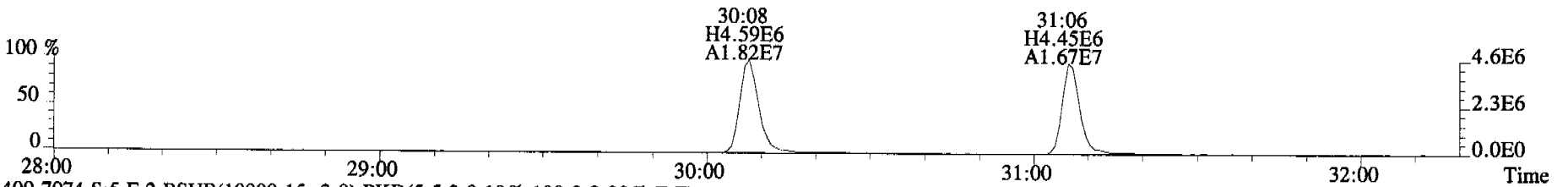
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



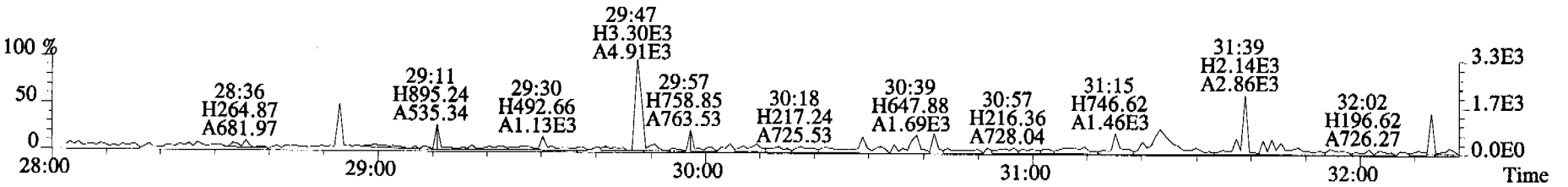
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



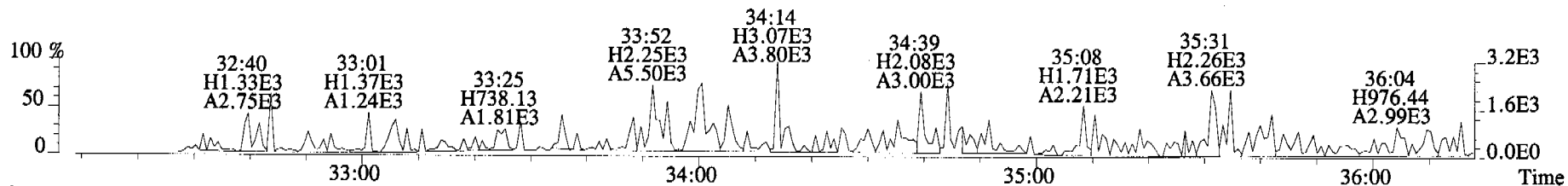
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



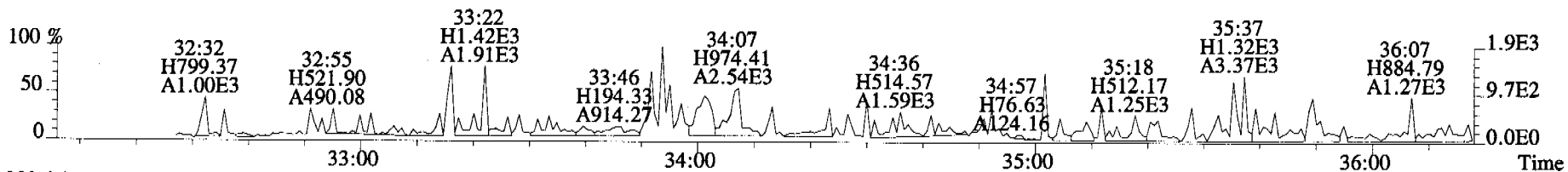
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



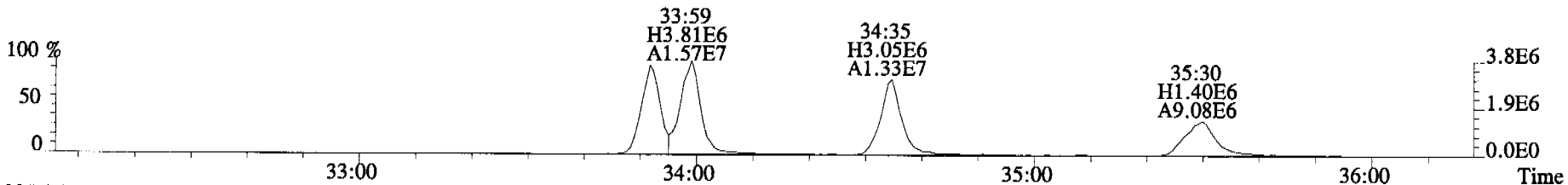
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



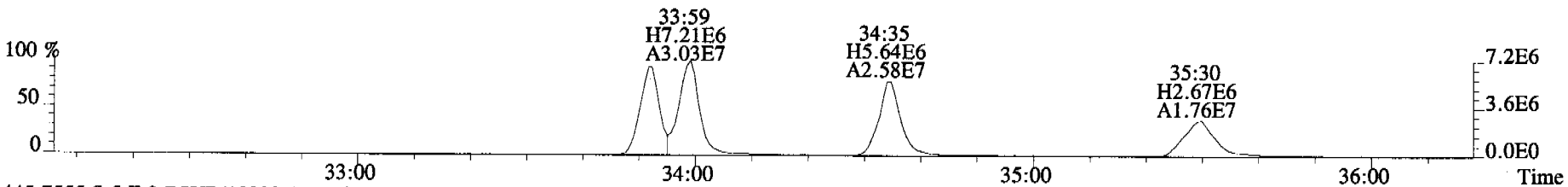
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



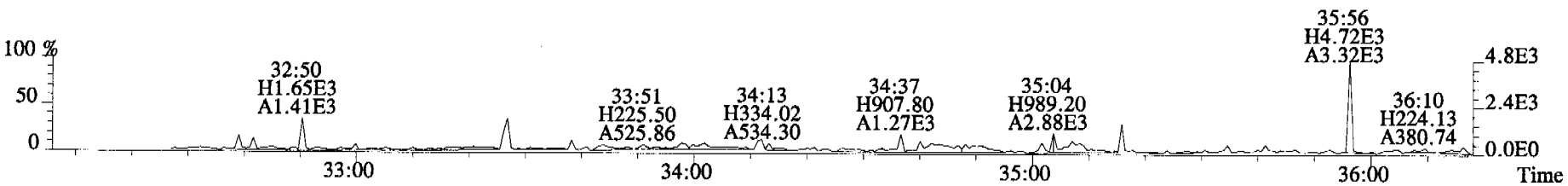
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



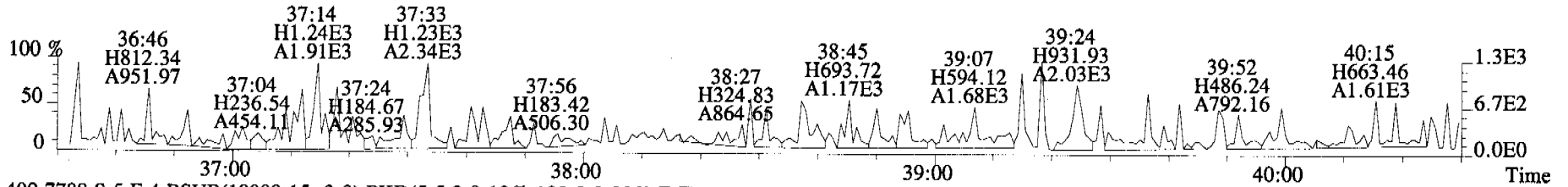
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



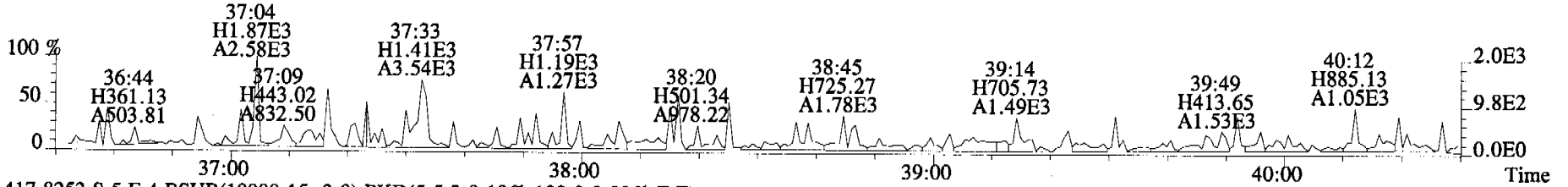
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



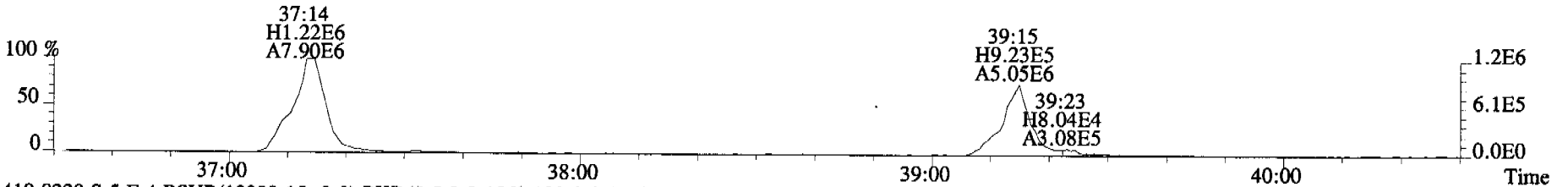
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0_8381_MB001 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



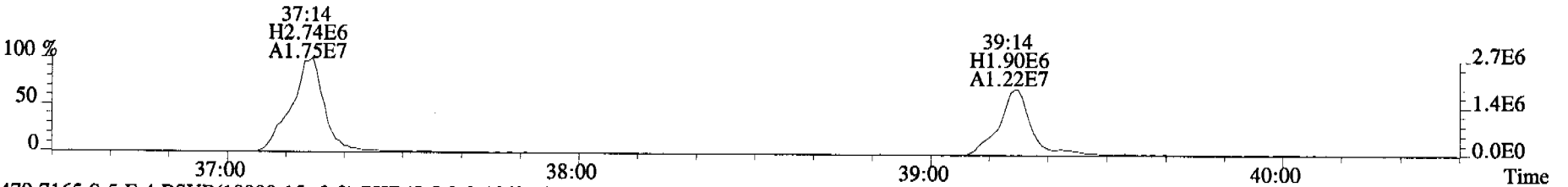
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



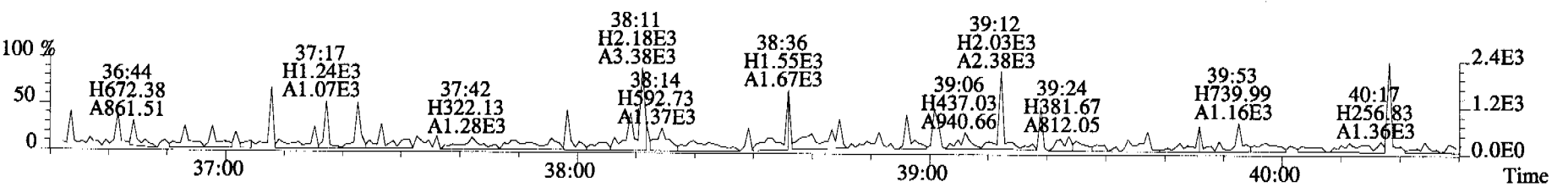
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



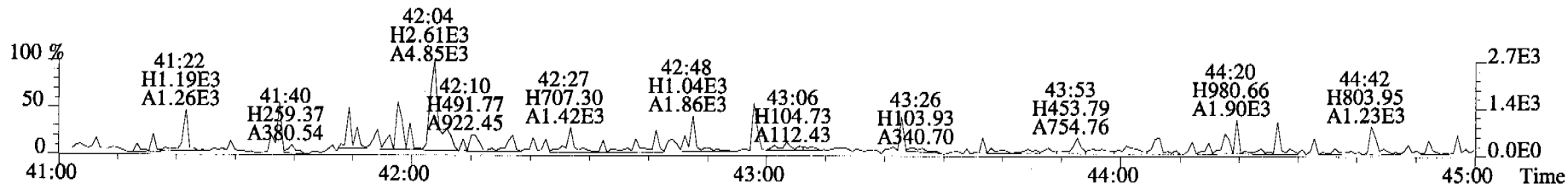
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



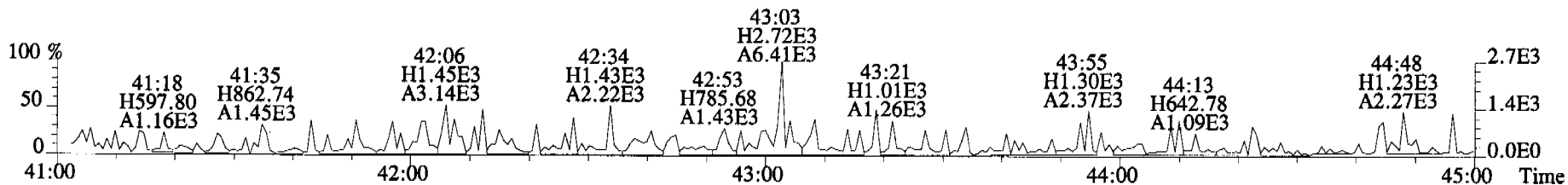
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



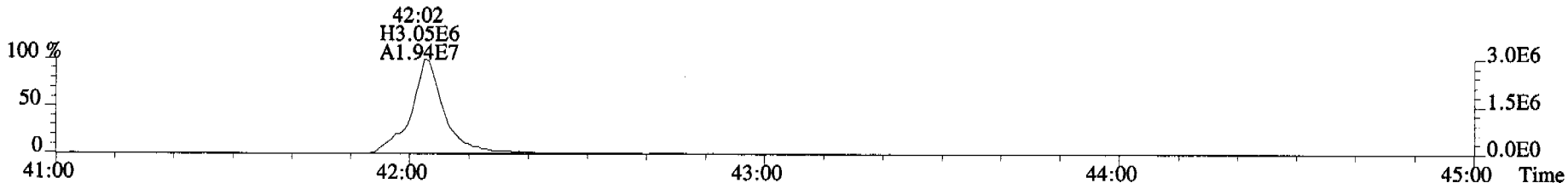
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



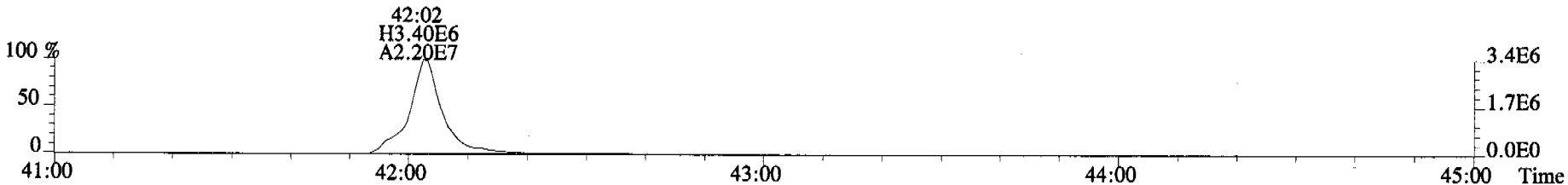
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



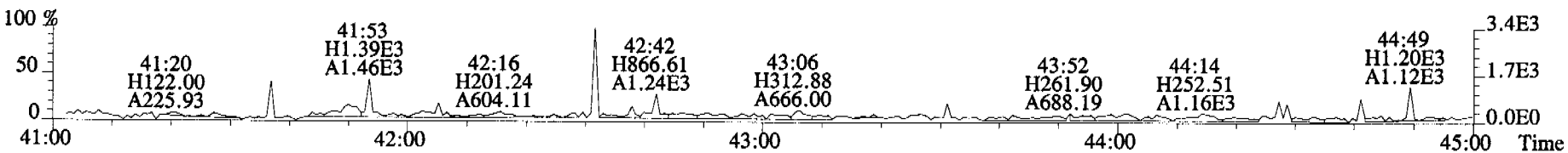
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



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



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

Lab Name: Alta Analytical Laboratory Extraction Batch: 0_8381_OPR001

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 060920C2-2

Ext. Date: 9/18/06 Shift: Day Analysis Date: 20-SEP-06 Time: 16:04:31

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	9.99	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	46.7	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	48.1	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	47.4	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	51.3	35.0 - 70.0
OCDD	100	99.3	78.0 - 144.0
2,3,7,8-TCDF	10	9.77	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	51.9	40.0 - 67.0
2,3,4,7,8-PeCDF	50	51.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	51.8	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	50.6	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	50.1	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	51.3	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	51.1	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	52.3	39.0 - 69.0
OCDF	100	105	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, for tetras only. 10/94

Analyst: ms

Date: 9/21/06

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Alta Analytical Laboratory Extraction Batch: 0_8381_OPR001

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 060920C2-2

Ext. Date: 9/18/06 Shift: Day Analysis Date: 20-SEP-06 Time: 16:04:31

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	72.8	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	62.1	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	79.6	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	76.6	25.0 - 163.0
13C-1,2,3,4,6,7,8-HpCDD	100	76.9	26.0 - 166.0
13C-OCDD	200	138	26.0 - 397.0
13C-2,3,7,8-TCDF	100	76.1	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	62.3	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	59.0	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	77.8	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	75.4	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	76.0	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	54.3	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	64.1	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	58.8	20.0 - 186.0
13C-OCDF	200	116	26.0 - 397.0
CLEANUP STANDARD			
37C1-2,3,7,8-TCDD	40	32.4	12.4 - 76.4

(1) Contract-required concentration limits for OPR
as specified in Table 6, Method 1613. 10/94(2) Contract-required concentration limits for OPR
as specified in Table 6a, Method 1613. 10/94Analyst: msDate: 9/21/06

Client ID: 0_8381_OPR001
Lab ID: 0_8381_OPR001

Filename: 060920C2 S:2 Acq:20-SEP-06 16:04:31
GC Column ID: db-5 ICal: 1613VG5-3-22-06 wt/vol: 1.000

ConCal: ST060920C2-1
EndCAL: ST060920C2-2

Page 2 of 2

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.52e+06	0.78 y	1.08	26:26	9.9927	*	2.5	*	*	Total Tetra-Dioxins	10.001	10.349	*	*	
1,2,3,7,8-PeCDD	1.33e+07	0.62 y	1.03	31:26	48.498	*	2.5	*	*	Total Penta-Dioxins	48.644	49.132	*	*	
1,2,3,4,7,8-HxCDD	1.43e+07	1.22 y	1.13	34:44	46.743	*	2.5	*	*	Total Hexa-Dioxins	142.66	143.01	*	*	
1,2,3,6,7,8-HxCDD	1.62e+07	1.23 y	1.03	34:50	48.140	*	2.5	*	*	Total Hepta-Dioxins	51.411	52.035	*	*	
1,2,3,7,8,9-HxCDD	1.58e+07	1.24 y	1.12	35:08	47.374	*	2.5	*	*	Total Tetra-Furans	10.181	10.615	*	*	
1,2,3,4,6,7,8-HpCDD	1.39e+07	1.06 y	1.02	38:40	51.285	*	2.5	*	*	Total Penta-Furans	106.01	106.64	*	*	
OCDD	2.11e+07	0.89 y	1.06	41:52	99.315	*	2.5	*	*	Total Hexa-Furans	204.44	204.94	*	*	
2,3,7,8-TCDF	4.57e+06	0.76 y	1.06	25:31	9.7742	*	2.5	*	*	Total Hepta-Furans	104.53	105.79	*	*	
1,2,3,7,8-PeCDF	2.00e+07	1.57 y	1.01	30:09	51.947	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.93e+07	1.56 y	1.02	31:08	51.804	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	2.16e+07	1.21 y	1.15	33:53	51.772	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	2.49e+07	1.22 y	1.14	34:00	50.622	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	2.30e+07	1.20 y	1.17	34:36	50.117	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.35e+07	1.23 y	1.10	35:31	51.264	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.65e+07	1.04 y	1.31	37:15	51.138	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.28e+07	0.97 y	1.33	39:15	52.275	*	2.5	*	*						
OCDF	2.16e+07	0.90 y	0.91	42:04	105.47	*	2.5	*	*						

Rec Qual

IS	13C-2,3,7,8-TCDD	3.26e+07	0.80 y	1.09	26:24	72.759	72.8	
IS	13C-1,2,3,7,8-PeCDD	2.66e+07	0.63 y	1.04	31:24	62.107	62.1	
IS	13C-1,2,3,4,7,8-HxCDD	2.70e+07	1.25 y	0.83	34:43	79.643	79.6	
IS	13C-1,2,3,6,7,8-HxCDD	3.26e+07	1.26 y	1.04	34:50	76.607	76.6	
IS	13C-1,2,3,4,6,7,8-HpCDD	2.68e+07	1.07 y	0.85	38:39	76.932	76.9	
IS	13C-OCDD	4.02e+07	0.90 y	0.71	41:51	137.77	68.9	
IS	13C-2,3,7,8-TCDF	4.40e+07	0.78 y	0.96	25:30	76.116	76.1	
IS	13C-1,2,3,7,8-PeCDF	3.83e+07	1.56 y	1.02	30:08	62.340	62.3	
IS	13C-2,3,4,7,8-PeCDF	3.63e+07	1.61 y	1.02	31:07	59.009	59.0	
IS	13C-1,2,3,4,7,8-HxCDF	3.64e+07	0.52 y	1.14	33:52	77.805	77.8	
IS	13C-1,2,3,6,7,8-HxCDF	4.32e+07	0.51 y	1.40	33:59	75.439	75.4	
IS	13C-2,3,4,6,7,8-HxCDF	3.92e+07	0.52 y	1.26	34:35	75.954	76.0	
IS	13C-1,2,3,7,8,9-HxCDF	2.41e+07	0.53 y	1.08	35:30	54.340	54.3	
IS	13C-1,2,3,4,6,7,8-HpCDF	2.45e+07	0.46 y	0.93	37:14	64.142	64.1	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.84e+07	0.46 y	0.77	39:14	58.769	58.8	
IS	13C-OCDF	4.49e+07	0.90 y	0.94	42:03	116.28	58.1	
C/Up	37C1-2,3,7,8-TCDD	1.03e+07		0.77	26:26	32.425	81.1	

Integrations

Reviewed

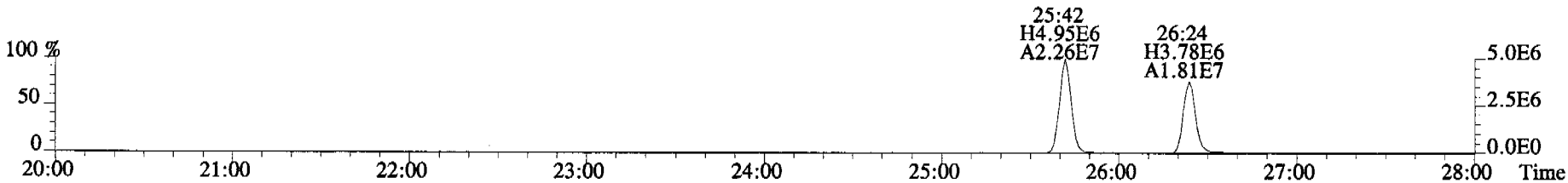
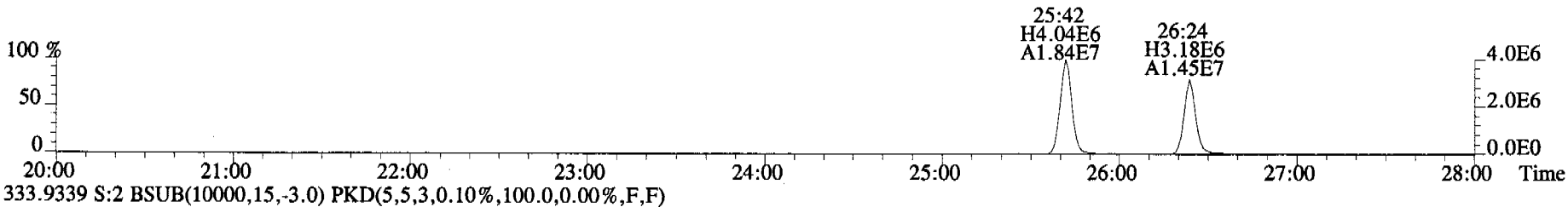
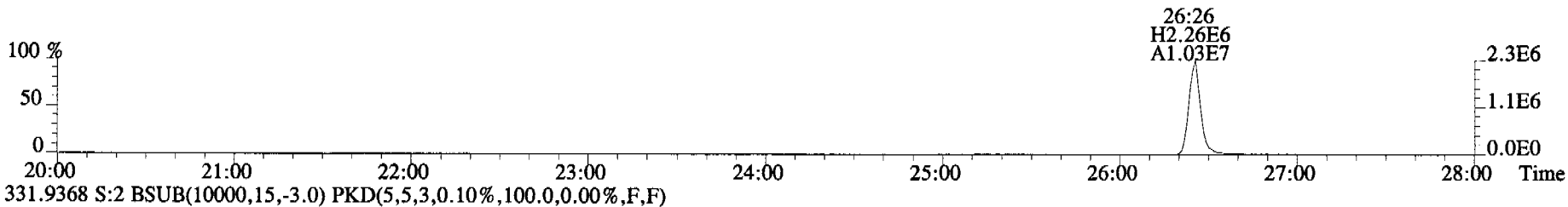
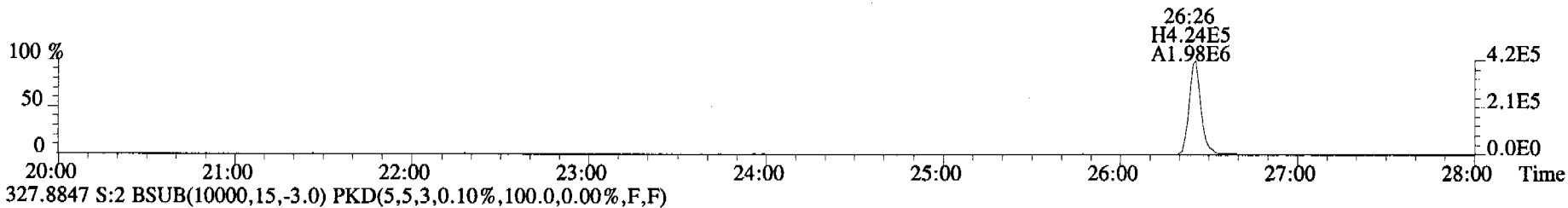
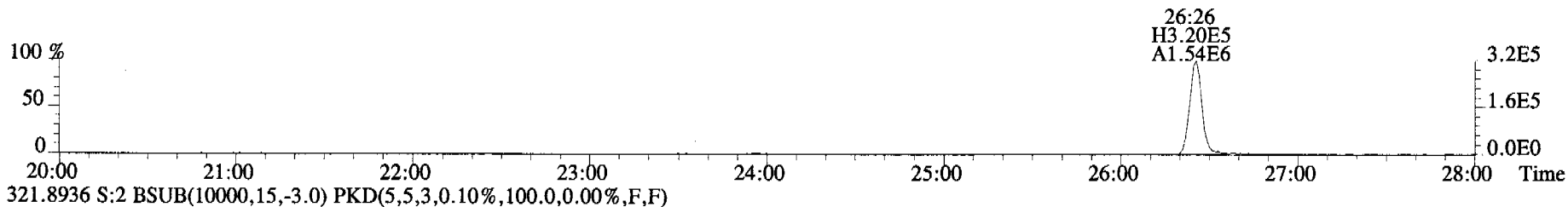
by
Analyst: MS

by
Analyst: MLL

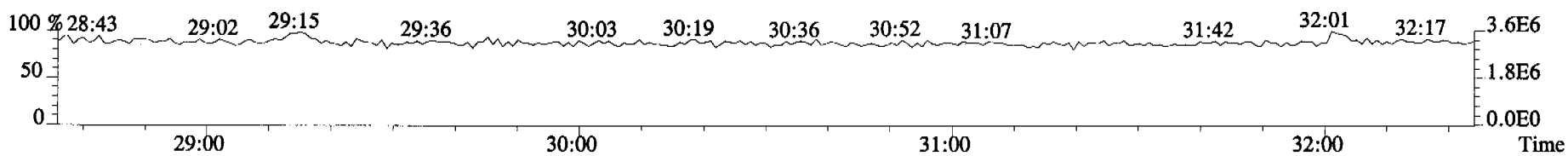
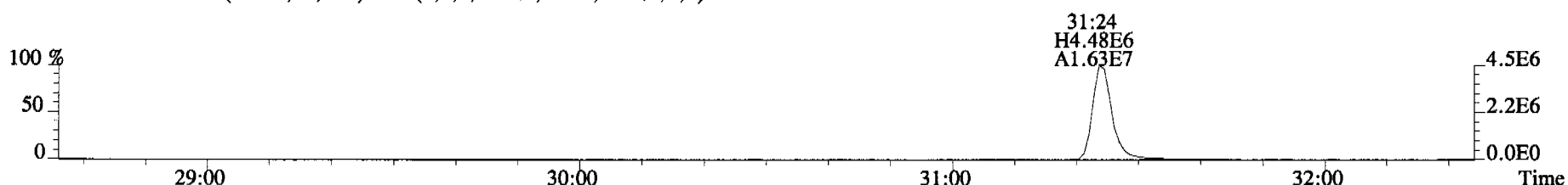
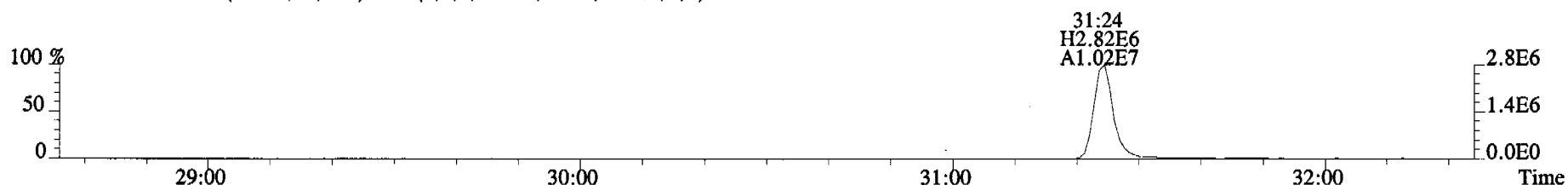
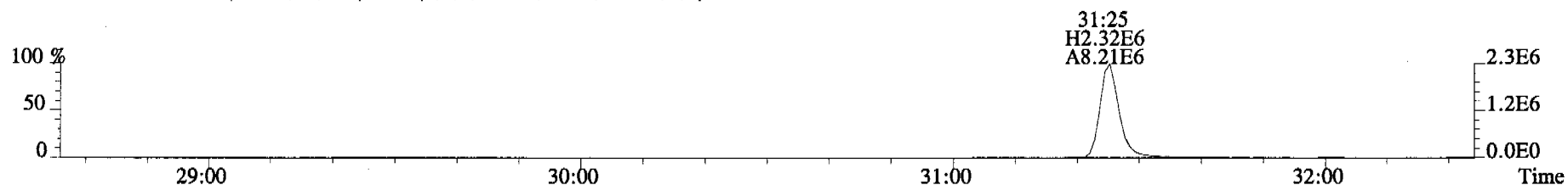
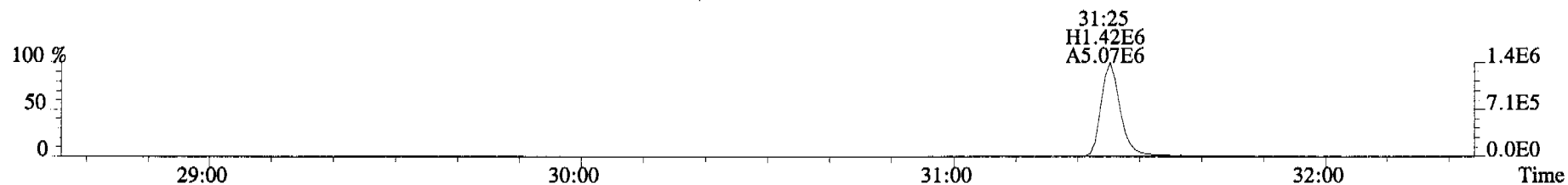
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Date: 9/21/06

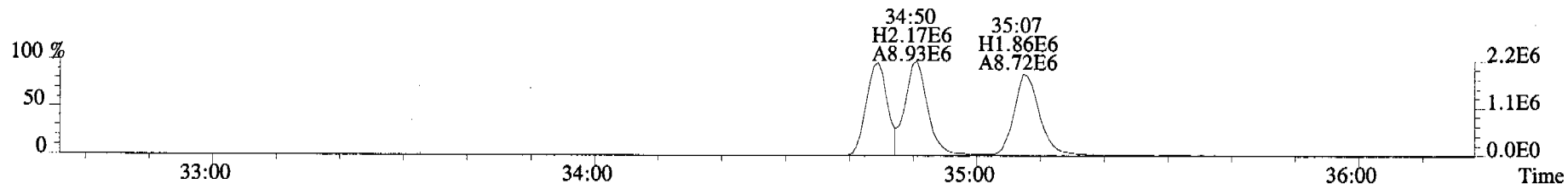
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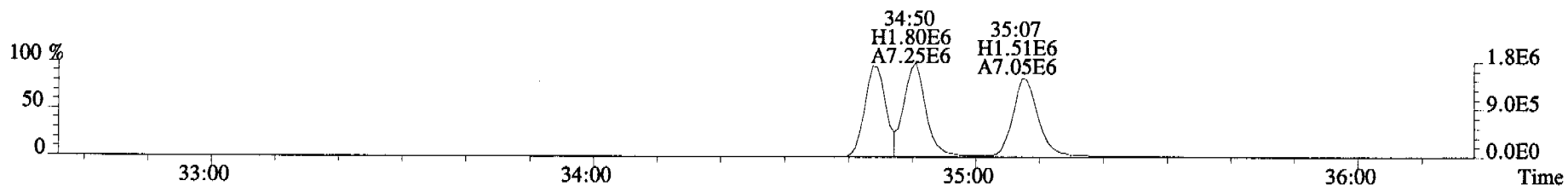
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353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



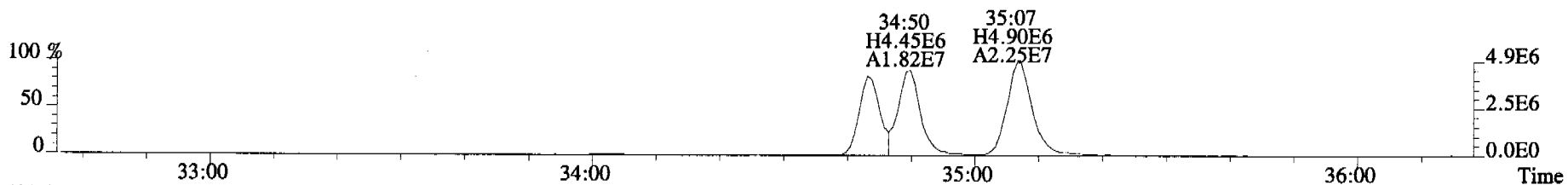
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389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



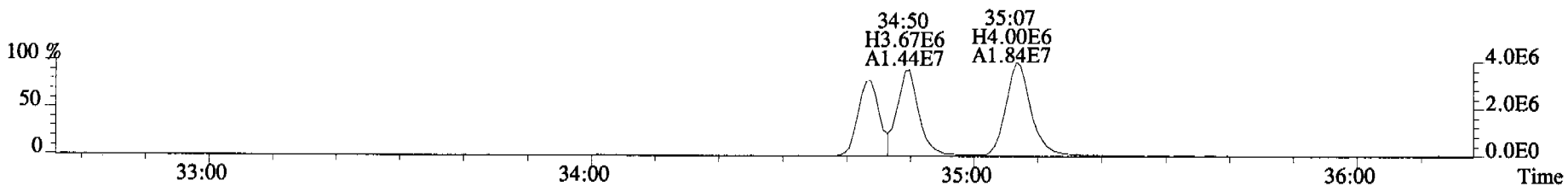
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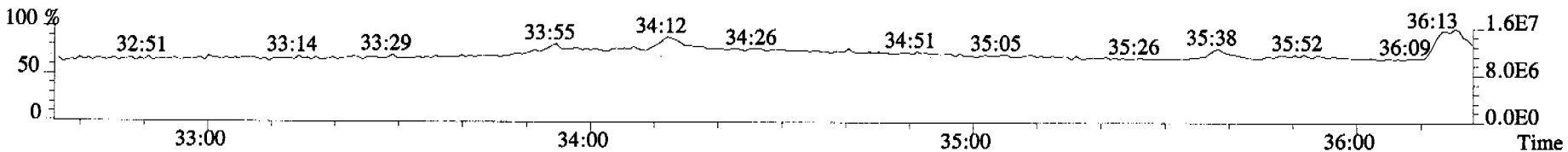
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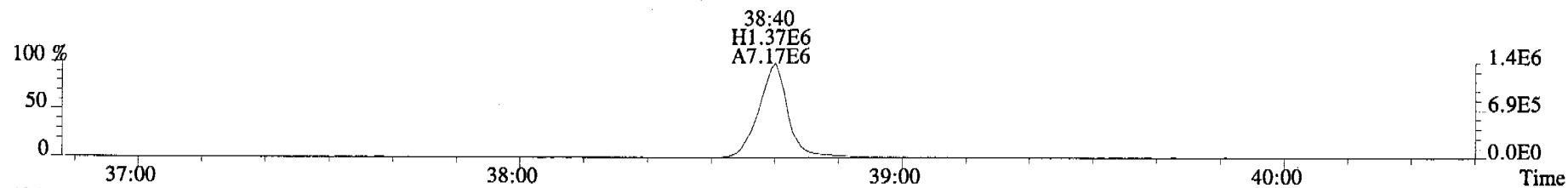
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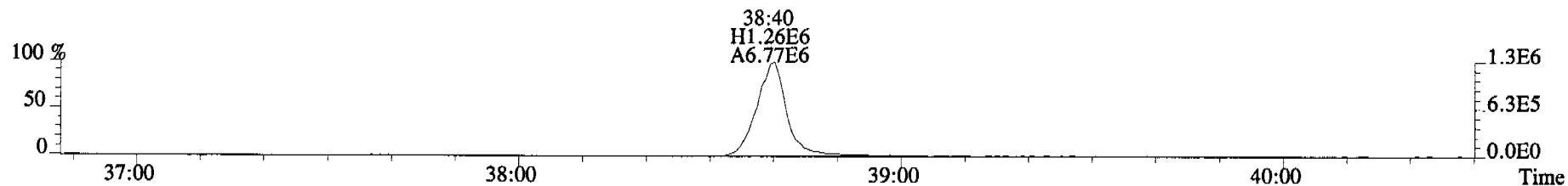
380.9760 S:2 F:3



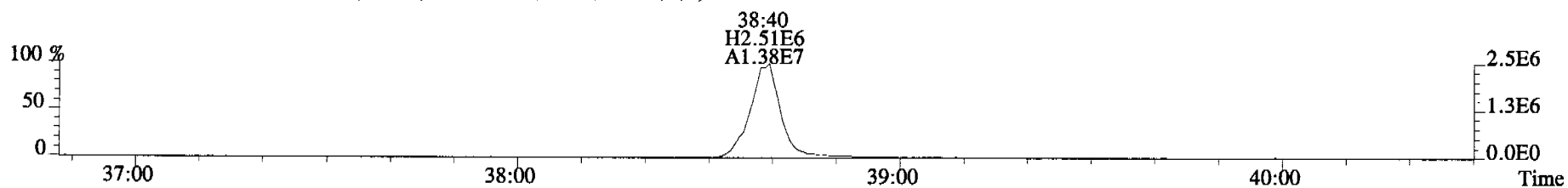
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423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



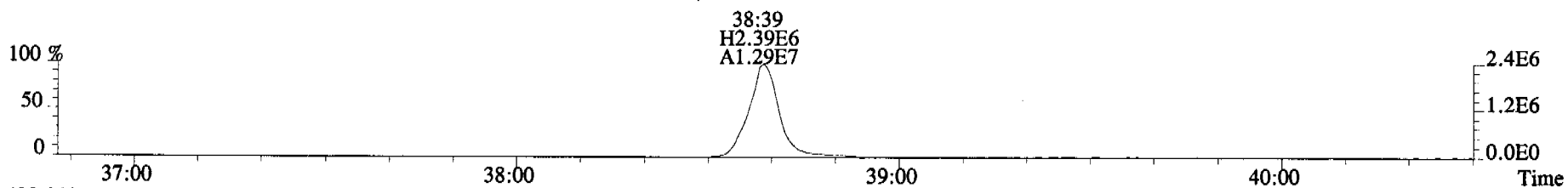
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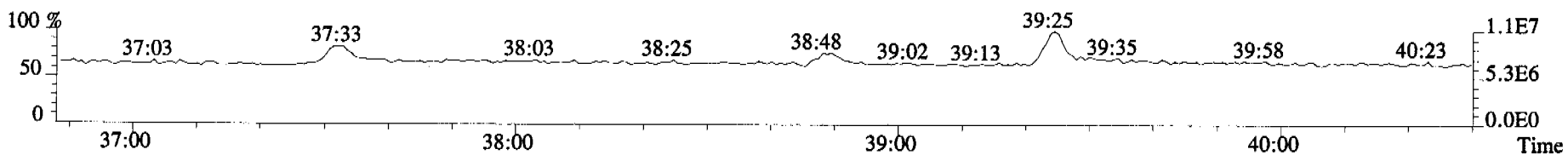
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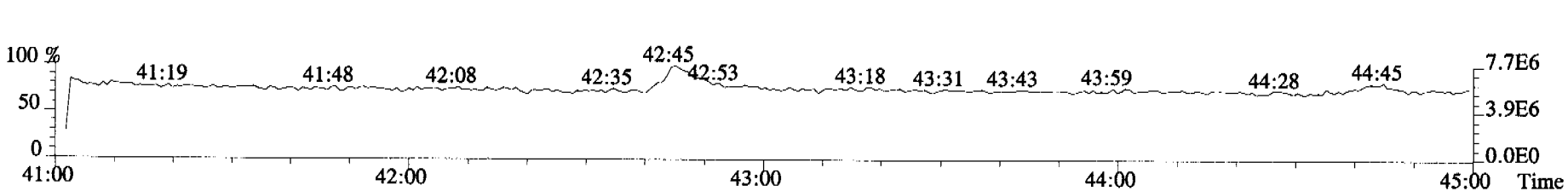
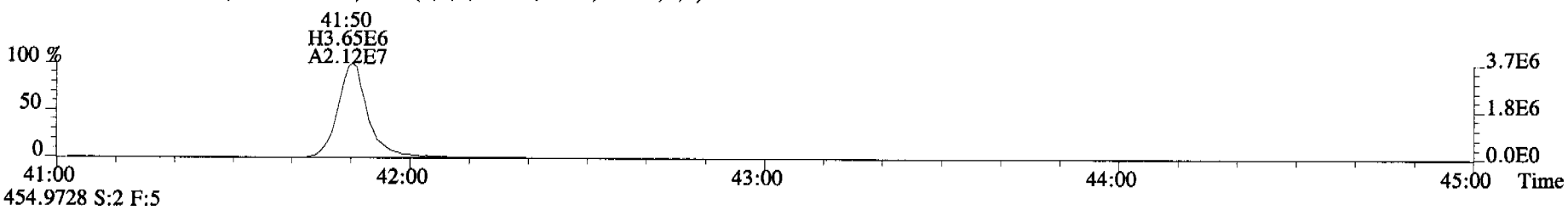
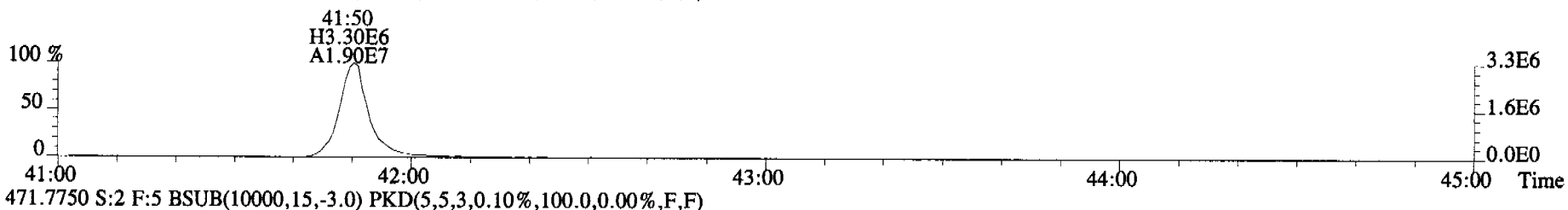
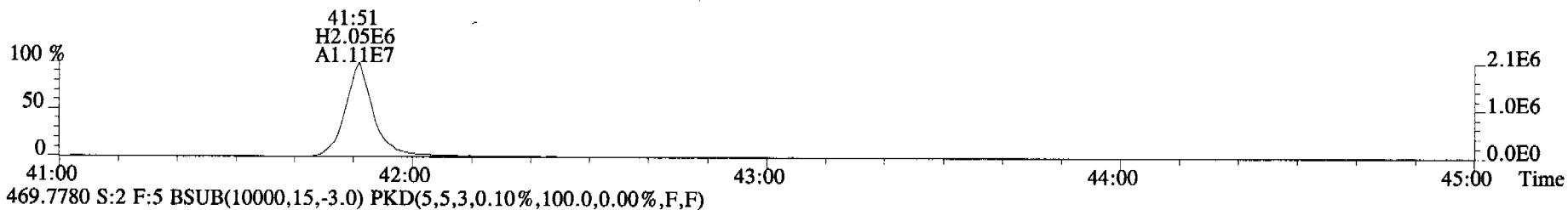
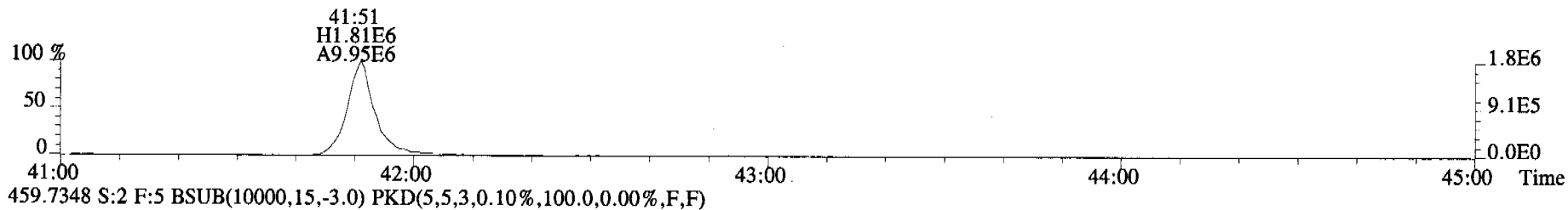
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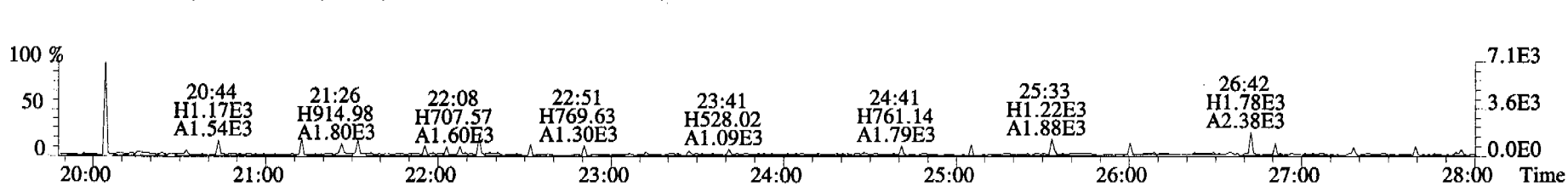
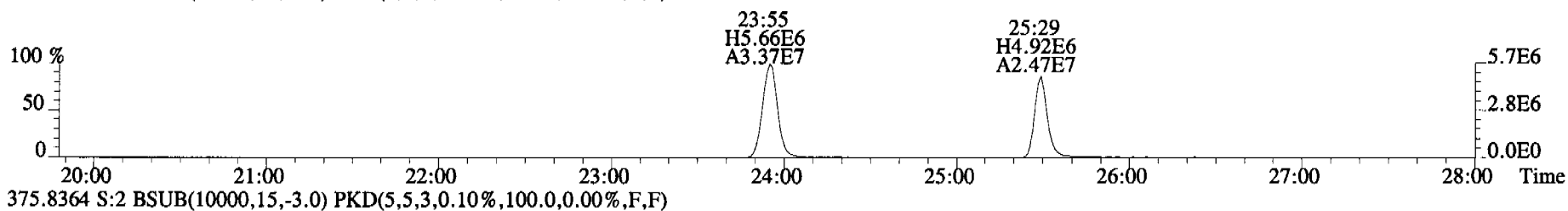
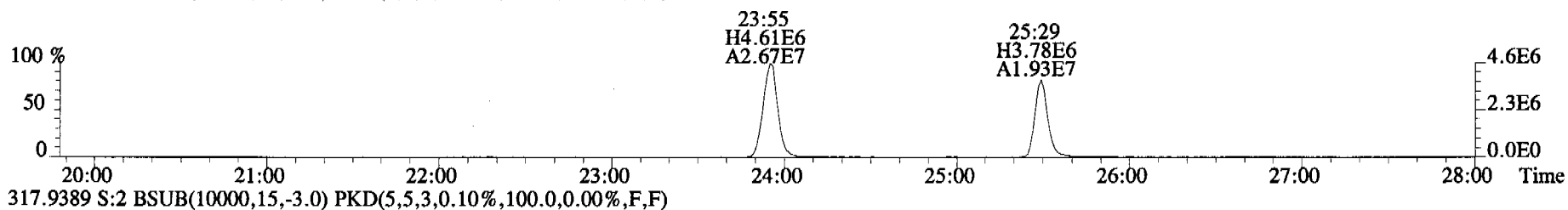
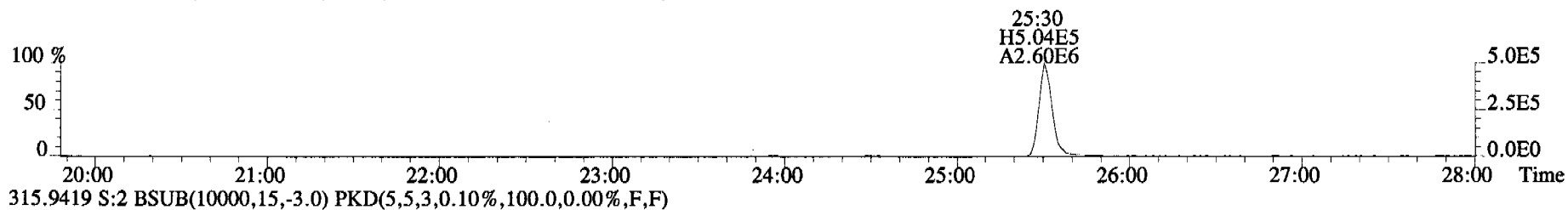
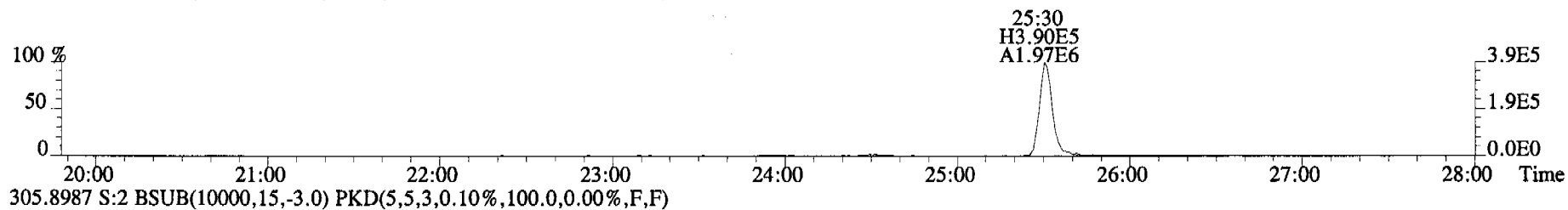
430.9728 S:2 F:4



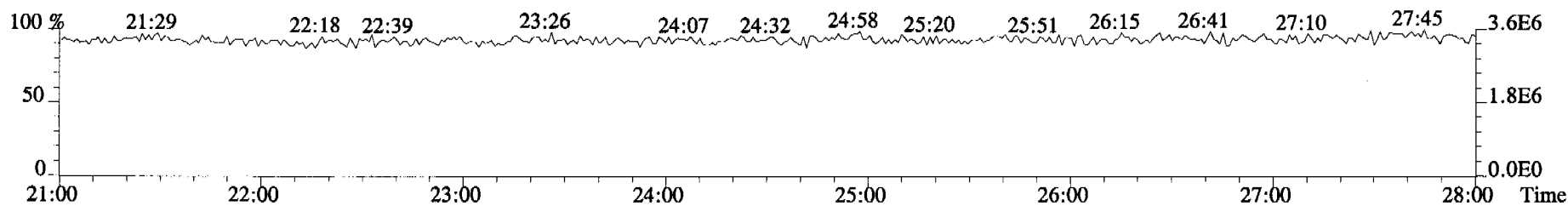
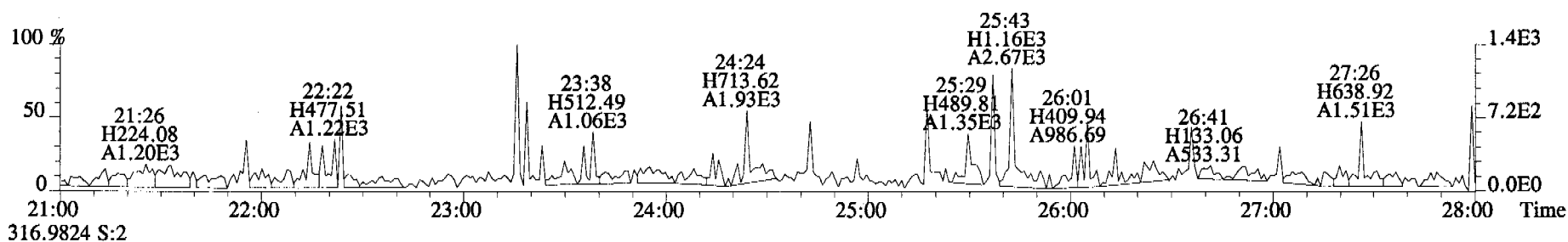
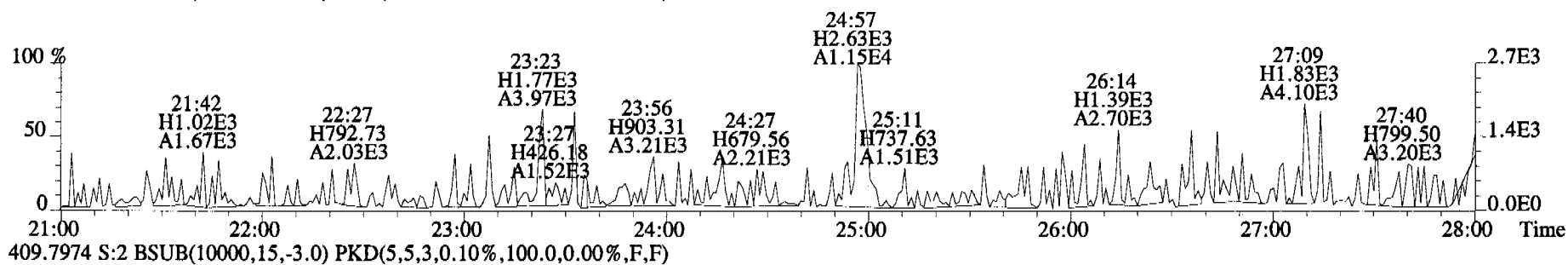
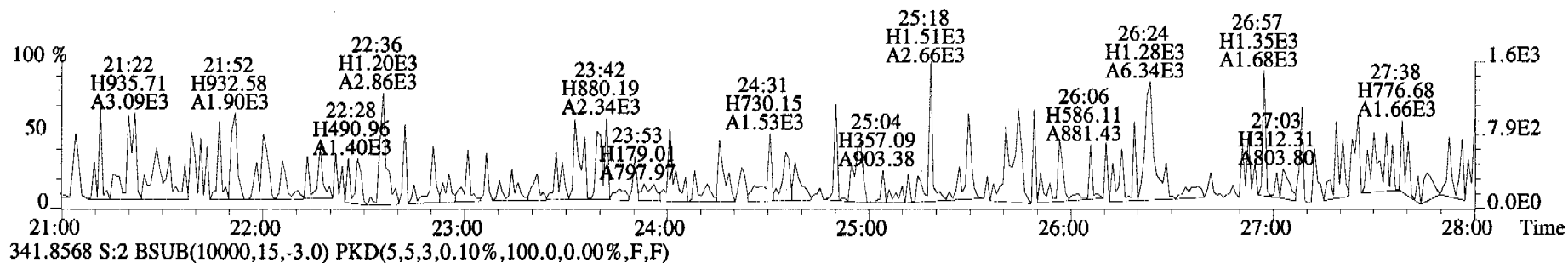
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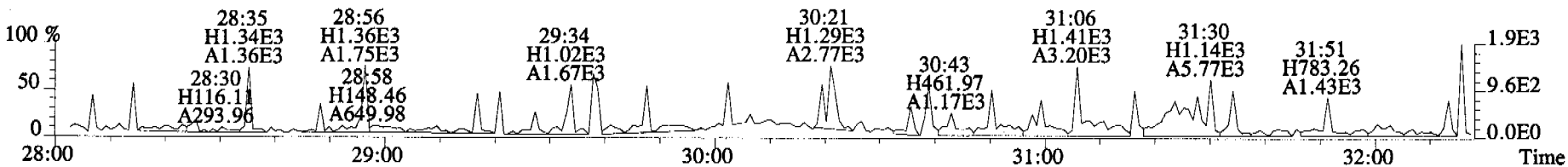
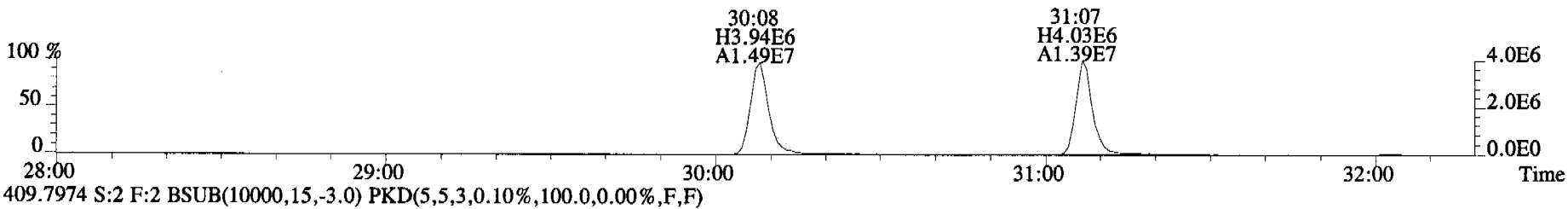
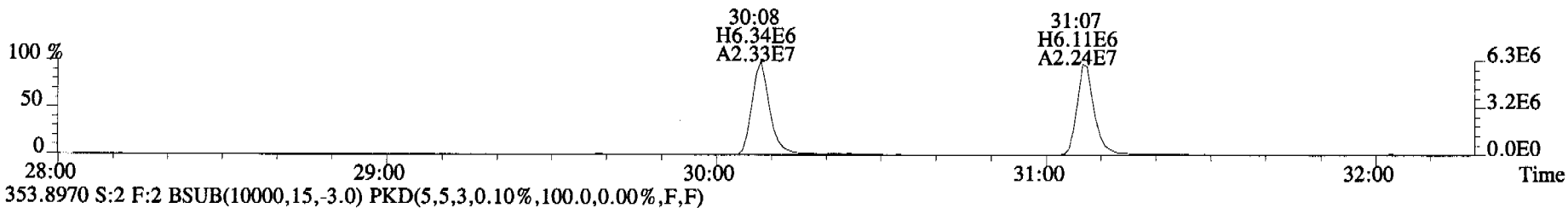
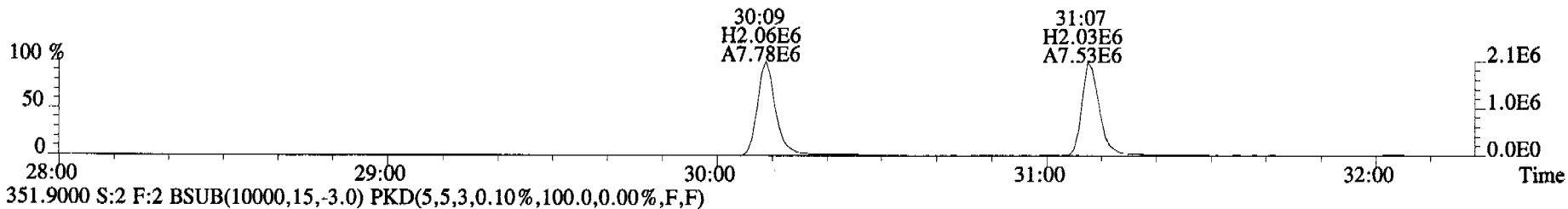
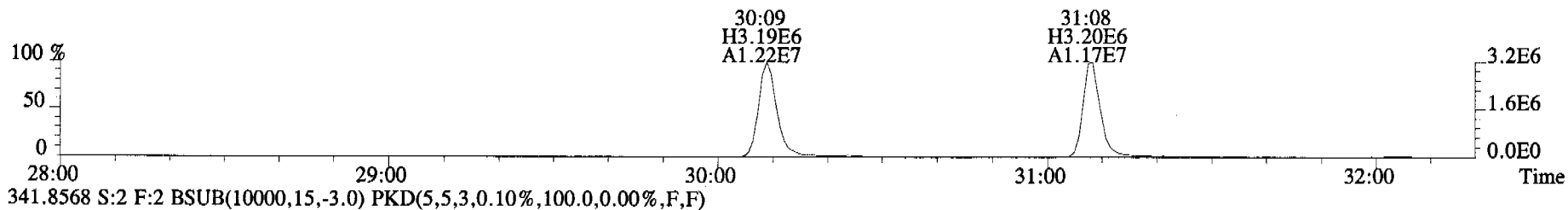
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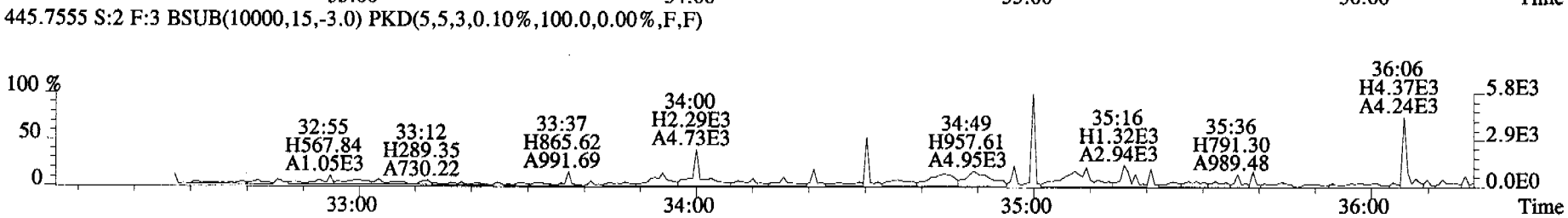
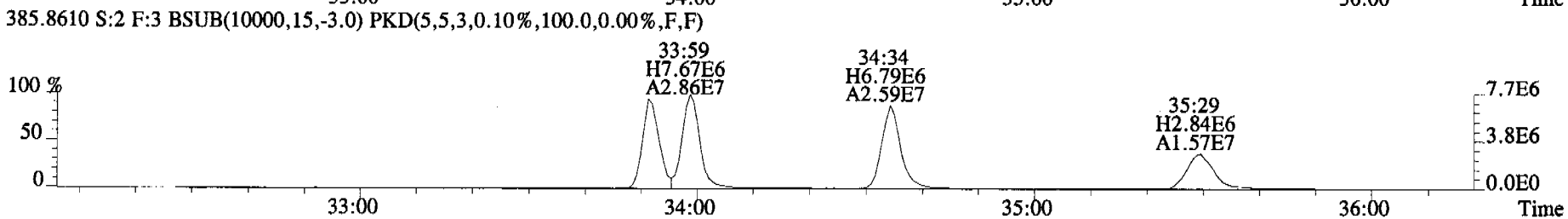
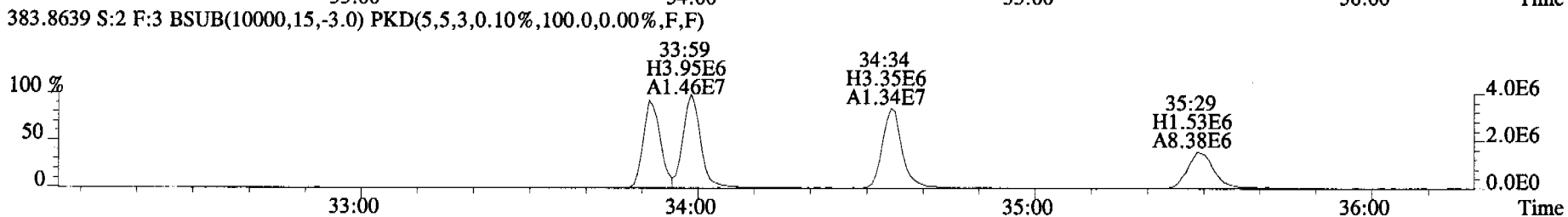
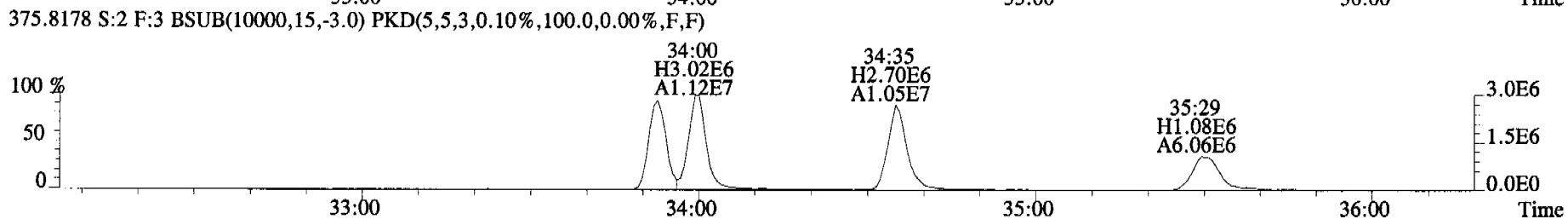
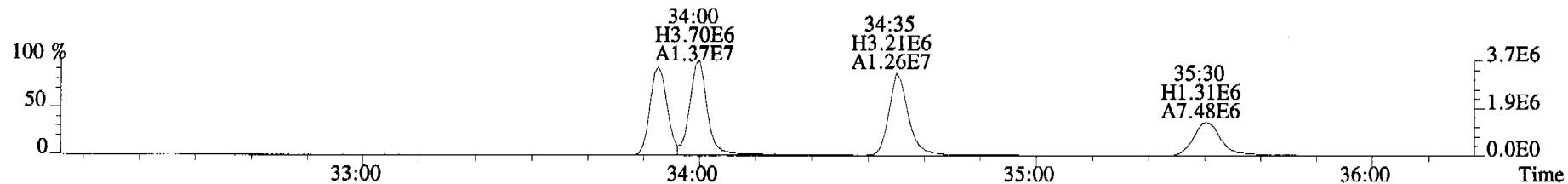
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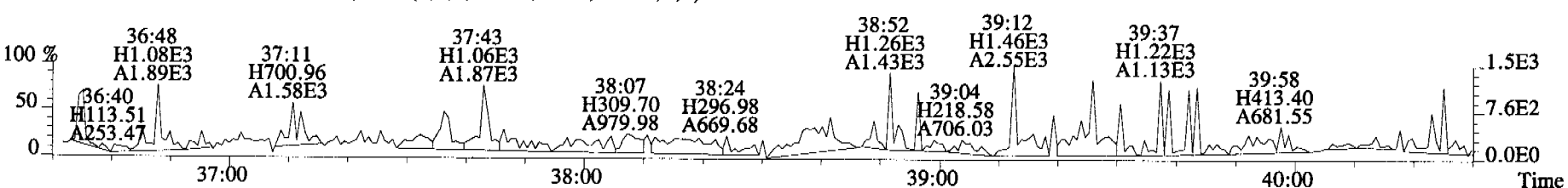
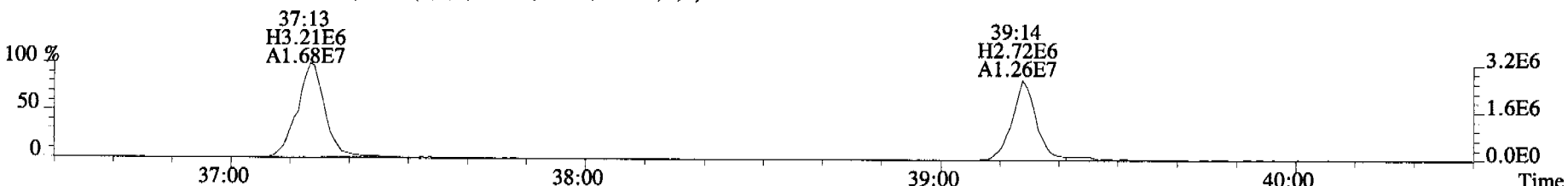
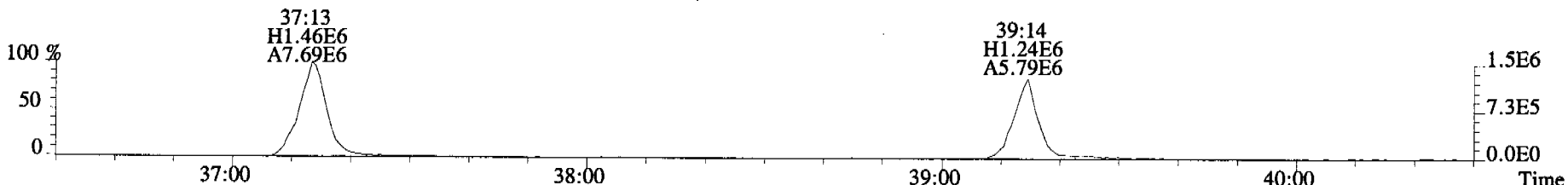
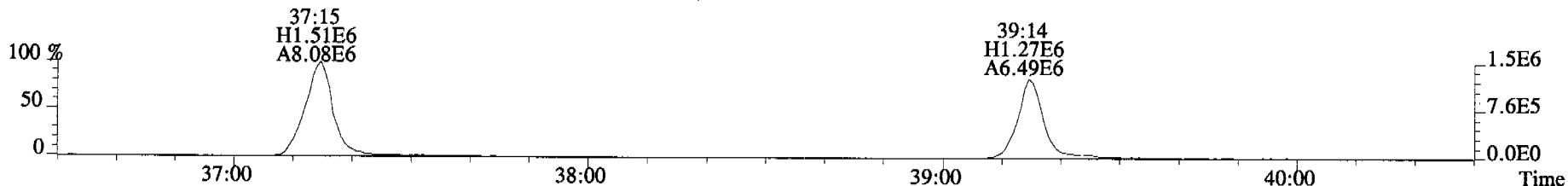
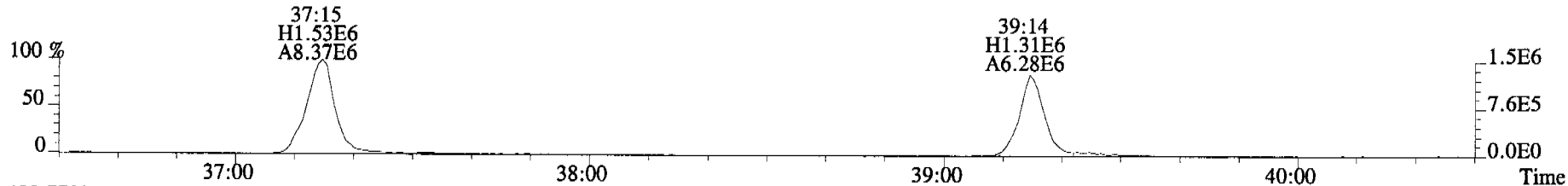
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339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



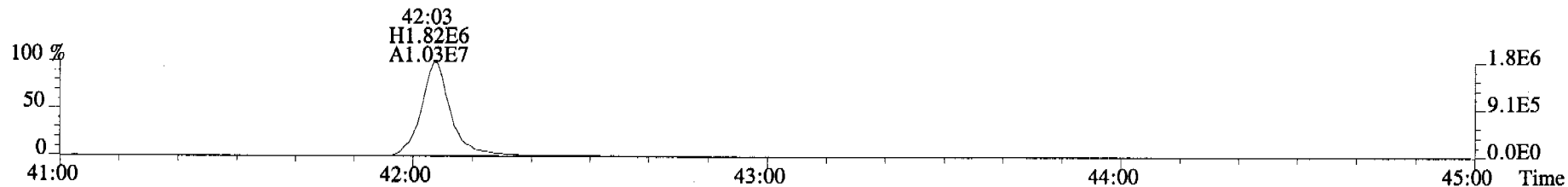
File:060920C2 #1-362 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381_OPR001 Exp:OCDD_DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



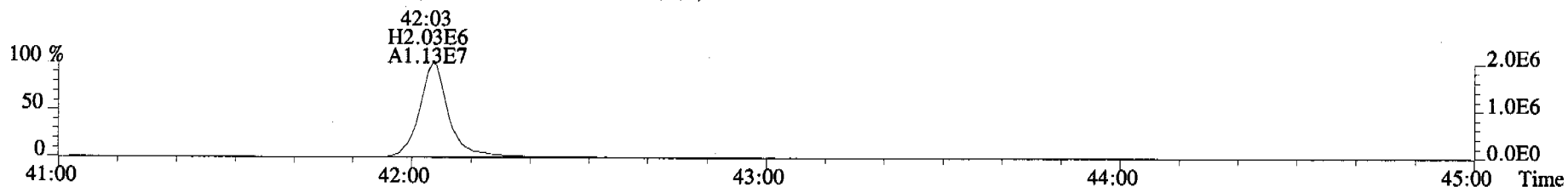
File:060920C2 #1-400 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381_OPR001 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



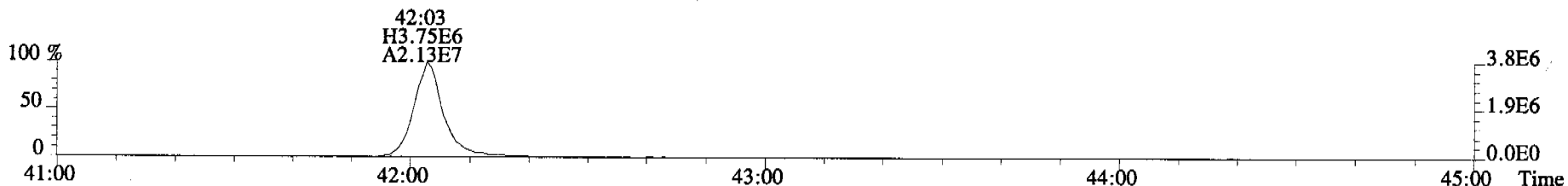
File:060920C2 #1-345 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



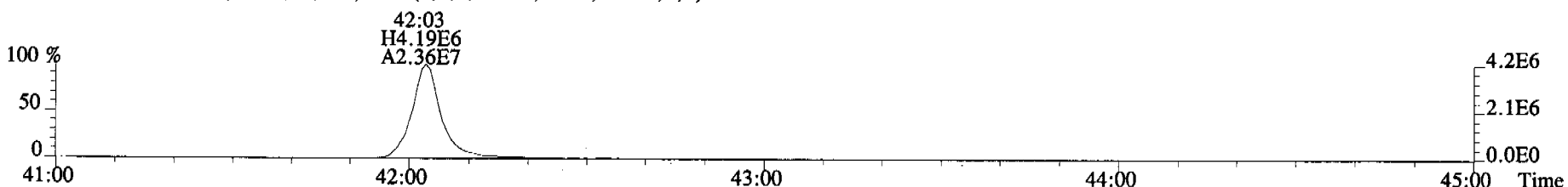
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



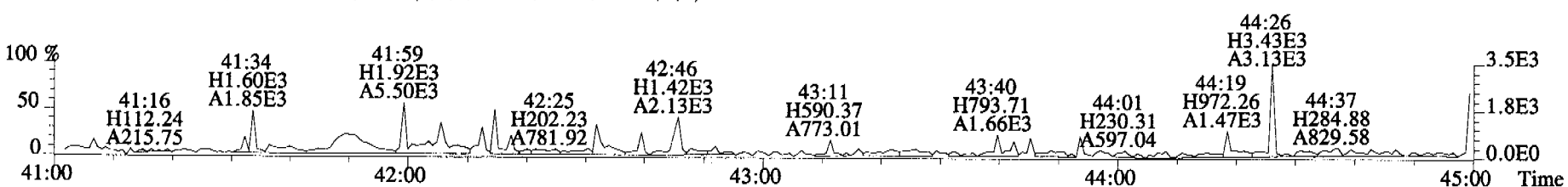
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



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



Client ID: IPI1289-01
 Lab ID: 28114_8381_001

Filename: 060920C2 S:13 Acq:21-SEP-06 01:09:54
 GC Column ID: db-5 ICal: 1613VG5-3-22-06 wt/vol: 0.989

ConCal: ST060920C2-1
 EndCAL: ST060920C2-2

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	*	* n	1.08	NotF ₇	*		1230	2.5	1.29
1,2,3,7,8-PeCDD	*	* n	1.03	NotF ₇	*		1640	2.5	1.74
1,2,3,4,7,8-HxCDD	*	* n	1.13	NotF ₇	*		1280	2.5	2.09
1,2,3,6,7,8-HxCDD	*	* n	1.03	NotF ₇	*		1280	2.5	2.11
1,2,3,7,8,9-HxCDD	*	* n	1.12	NotF ₇	*		1280	2.5	2.02
1,2,3,4,6,7,8-HpCDD	8.50e+04	0.95 y	1.02	38:40	5.5680		*	2.5	*
OCDD	6.10e+05	1.00 y	1.06	41:52	48.634		*	2.5	*
2,3,7,8-TCDF	*	* n	1.06	NotF ₇	*		1430	2.5	1.29
1,2,3,7,8-PeCDF	*	* n	1.01	NotF ₇	*		1370	2.5	1.52
2,3,4,7,8-PeCDF	*	* n	1.02	NotF ₇	*		1370	2.5	1.74
1,2,3,4,7,8-HxCDF	*	* n	1.15	NotF ₇	*		962	2.5	0.587
1,2,3,6,7,8-HxCDF	*	* n	1.14	NotF ₇	*		962	2.5	0.617
2,3,4,6,7,8-HxCDF	*	* n	1.17	NotF ₇	*		962	2.5	0.780
1,2,3,7,8,9-HxCDF	*	* n	1.10	NotF ₇	*		962	2.5	1.73
1,2,3,4,6,7,8-HpCDF	*	* n	1.31	NotF ₇	*		1580	2.5	1.80
1,2,3,4,7,8,9-HpCDF	*	* n	1.33	NotF ₇	*		760	2.5	1.17
OCDF	*	* n	0.91	NotF ₇	*		2740	2.5	7.10

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		1230	1.29
Total Penta-Dioxins	*	*		4680	4.96
Total Hexa-Dioxins	*	0.77732		*	*
Total Hepta-Dioxins	5.5680	5.5680		*	*
Total Tetra-Furans	*	*		2400	2.16
Total Penta-Furans	0.0000	0.0000		2510	2.97
Total Hexa-Furans	*	*		962	0.855
Total Hepta-Furans	*	*		3410	4.48

IS	13C-2,3,7,8-TCDD	3.74e+07	0.79 y	1.09	26:25	1374.9			
IS	13C-1,2,3,7,8-PeCDD	2.92e+07	0.64 y	1.04	31:25	1122.4			
IS	13C-1,2,3,4,7,8-HxCDD	2.31e+07	1.27 y	0.83	34:44	1133.5			
IS	13C-1,2,3,6,7,8-HxCDD	3.11e+07	1.28 y	1.04	34:51	1218.9			
IS	13C-1,2,3,4,6,7,8-HpCDD	3.04e+07	1.07 y	0.85	38:40	1454.8			
IS	13C-OCDD	4.81e+07	0.89 y	0.71	41:52	2745.7			
IS	13C-2,3,7,8-TCDF	4.95e+07	0.79 y	0.96	25:31	1340.7			
IS	13C-1,2,3,7,8-PeCDF	5.15e+07	1.60 y	1.02	30:09	1316.4			
IS	13C-2,3,4,7,8-PeCDF	4.02e+07	1.59 y	1.02	31:08	1022.7			
IS	13C-1,2,3,4,7,8-HxCDF	4.03e+07	0.52 y	1.14	33:53	1434.0			
IS	13C-1,2,3,6,7,8-HxCDF	4.17e+07	0.52 y	1.40	33:60	1211.9			
IS	13C-2,3,4,6,7,8-HxCDF	3.55e+07	0.51 y	1.26	34:36	1146.5			
IS	13C-1,2,3,7,8,9-HxCDF	2.77e+07	0.52 y	1.08	35:32	1041.0			
IS	13C-1,2,3,4,6,7,8-HpCDF	2.92e+07	0.44 y	0.93	37:15	1272.9			
IS	13C-1,2,3,4,7,8,9-HpCDF	2.24e+07	0.43 y	0.77	39:16	1187.6			
IS	13C-OCDF	4.93e+07	0.88 y	0.94	42:04	2125.2			
C/Up	37Cl-2,3,7,8-TCDD	1.25e+07		0.77	26:26	647.11			
RS/RT	13C-1,2,3,4-TCDD	5.04e+07	0.82 y	1.00	25:43	2022.2			
RS	13C-1,2,3,4-TCDF	7.78e+07	0.78 y	1.00	23:56	2022.2			
RS/RT	13C-1,2,3,7,8,9-HxCDD	4.97e+07	1.26 y	1.00	35:09	2022.2			

Rec Qual

Integrations Reviewed
 by MS by afz
 Analyst: MS Analyst: afz
 Date: 9/21/06 Date: 9/21/05

Totals class: HxCDD EMPC

Entry #: 23

Run: 18 File: 060920C2 S: 13 I: 1 F: 3

Acquired: 21-SEP-06 01:09:54 Processed: 21-SEP-06 07:06:57

Total Concentration: 0.77732

Unnamed Concentration: 0.777

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
33:15	8.410e+03	5.069e+03	1.66 n	1.135e+04	0.77732	

Totals class: HpCDD EMPC

Entry #: 25

Run: 18 File: 060920C2 S: 13 I: 1 F: 4

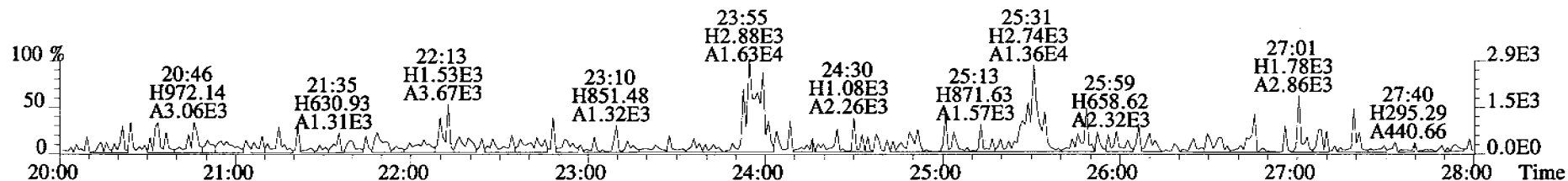
Acquired: 21-SEP-06 01:09:54 Processed: 21-SEP-06 07:06:57

Total Concentration: 5.5680

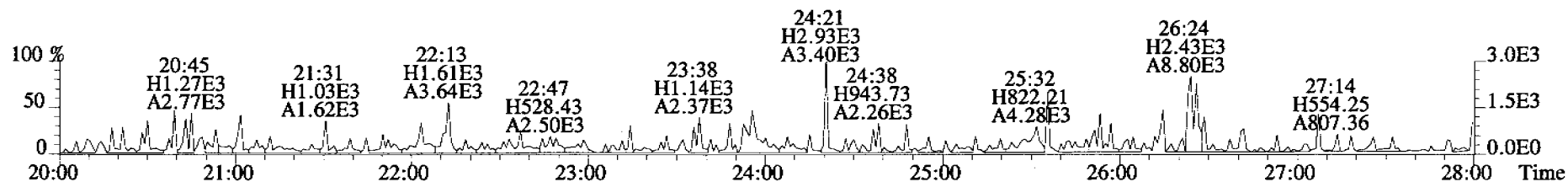
Unnamed Concentration: *

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
38:40	4.140e+04	4.360e+04	0.95 y	8.500e+04	5.5680	1,2,3,4,6,7,8-HpCDD

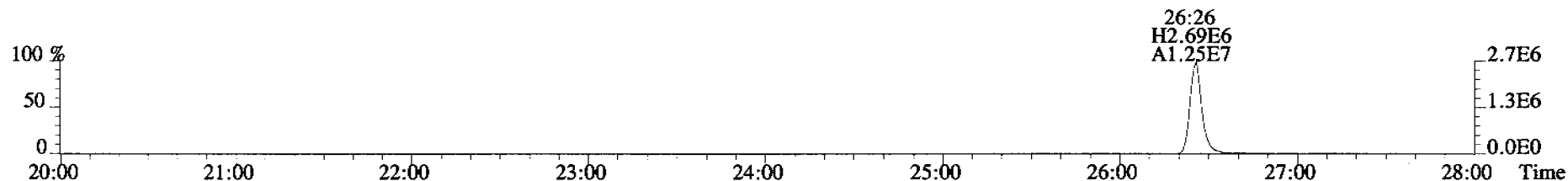
File:060920C2 #1-546 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114 8381 001 IPI1289-01 0.9890L Exp:OCDD_DB5
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



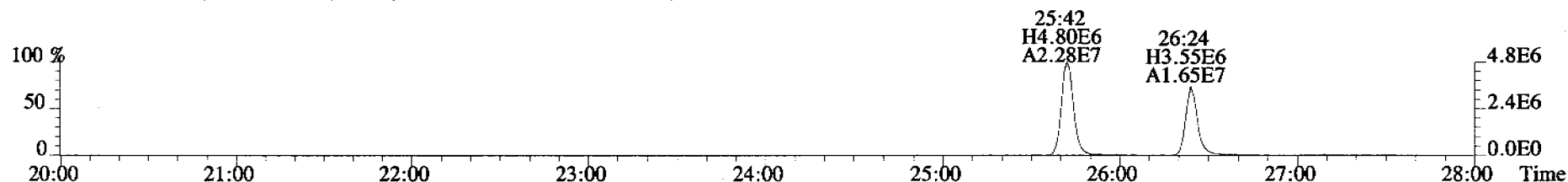
321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



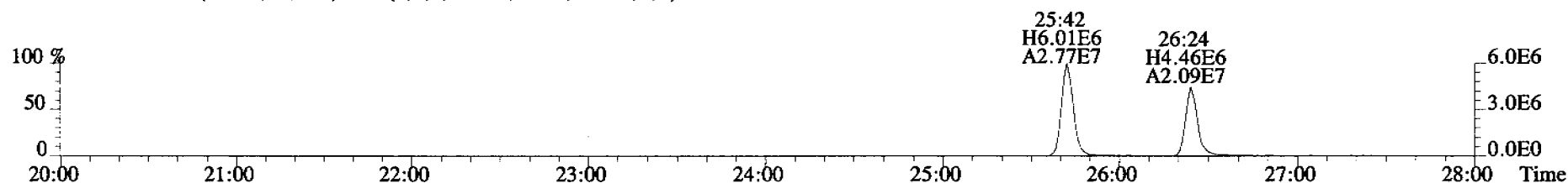
327.8847 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



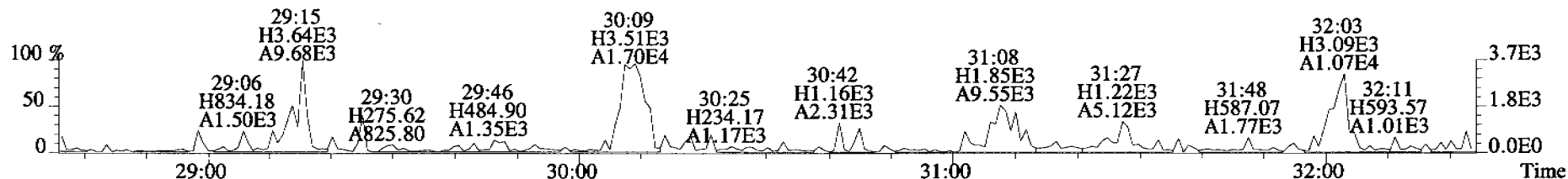
331.9368 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



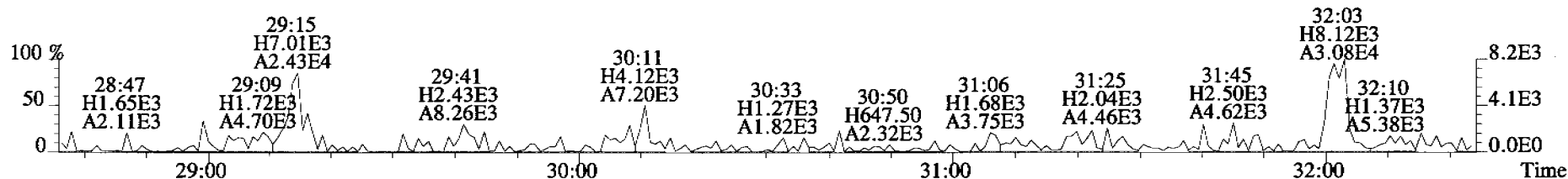
333.9339 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



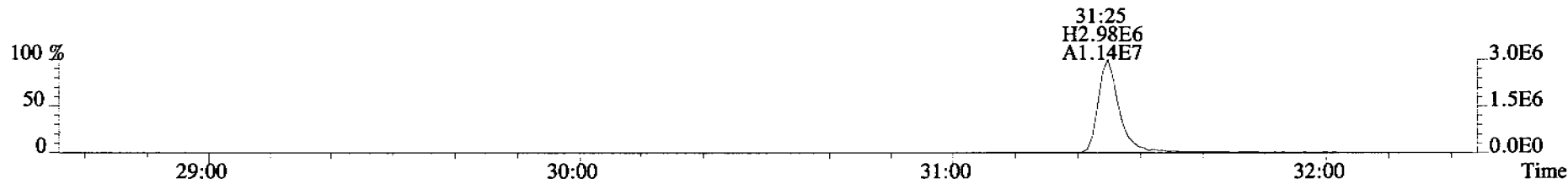
File:060920C2 #1-325 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114 8381 001 IPI1289-01 0.9890L Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



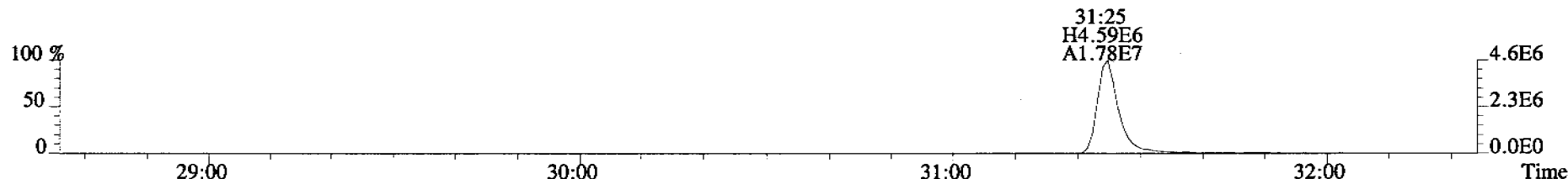
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



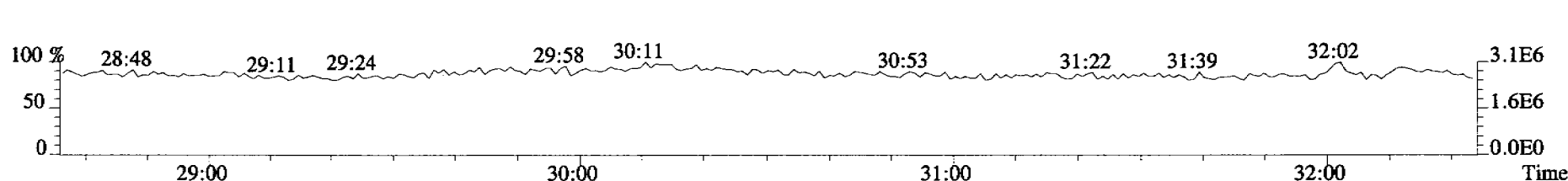
365.8978 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



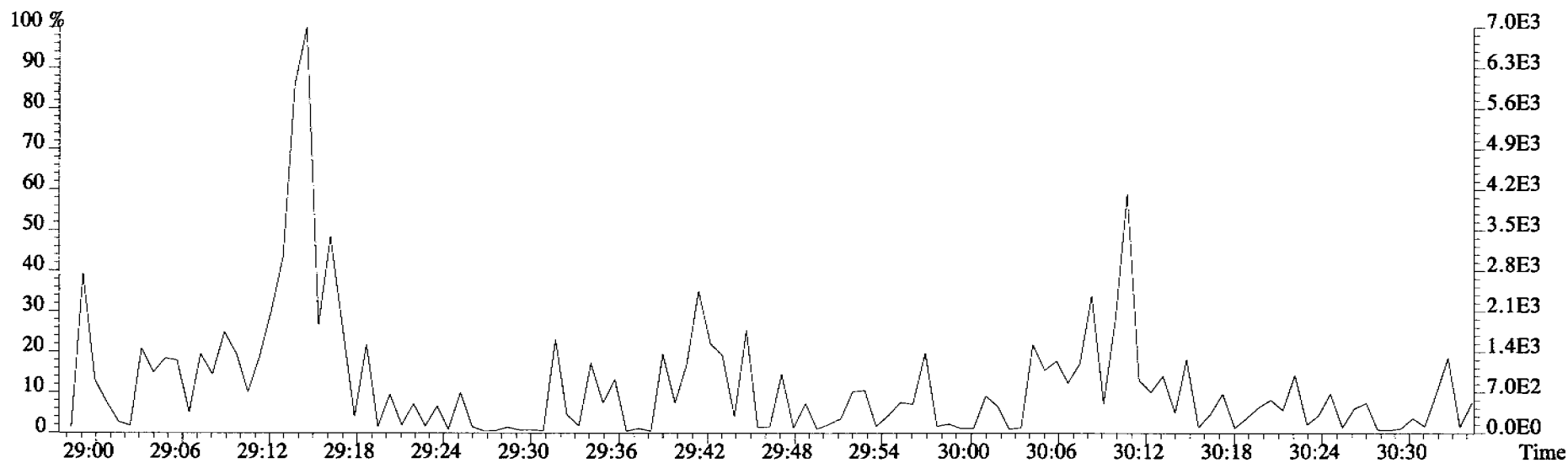
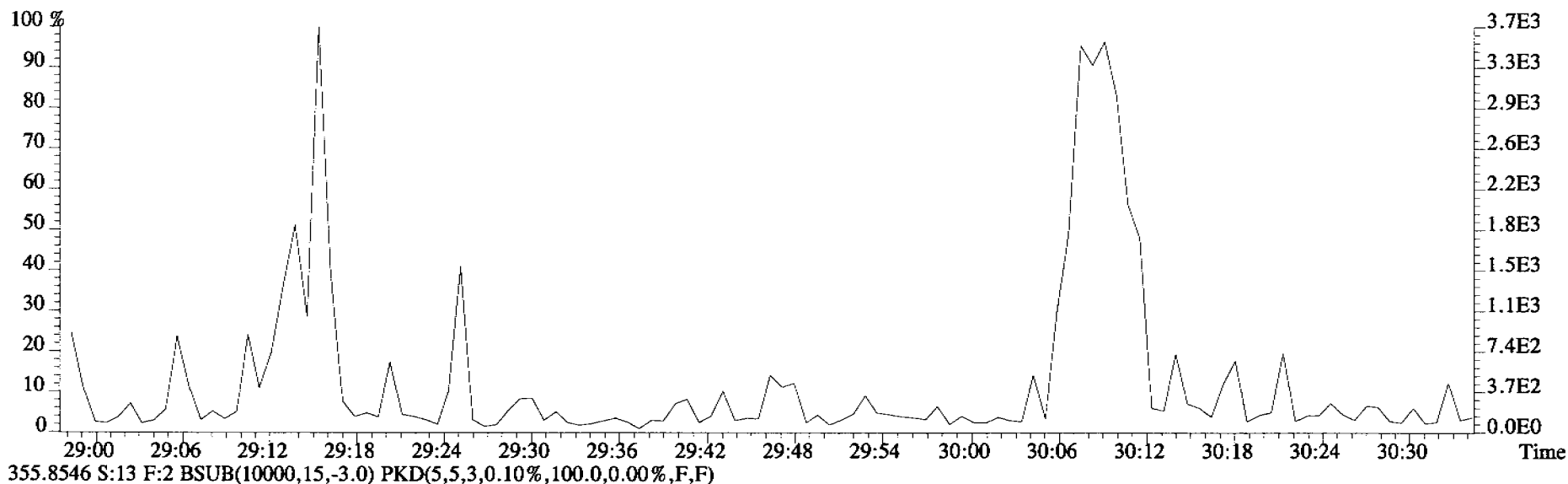
367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



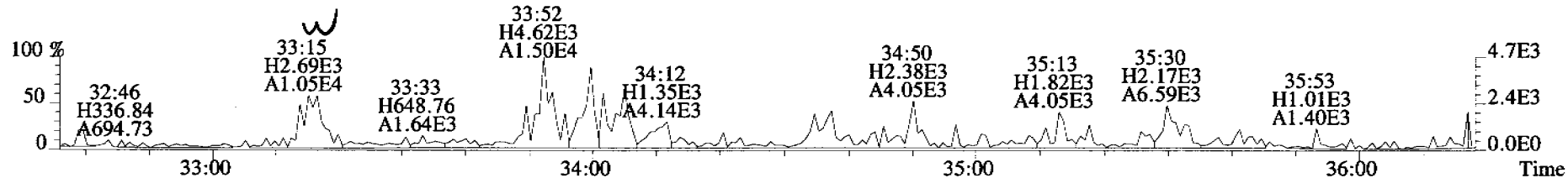
366.9792 S:13 F:2



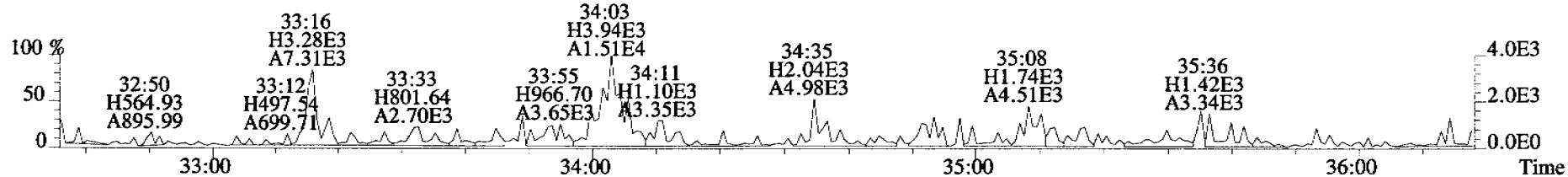
File:060920C2 #1-325 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114 8381 001 IPI1289-01 0.9890L Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



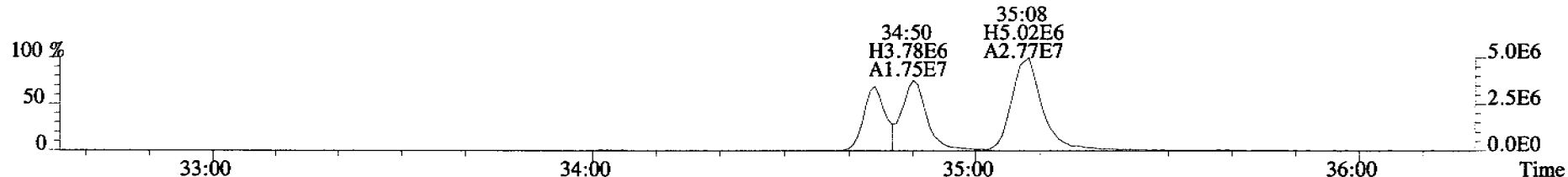
File:060920C2 #1-362 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



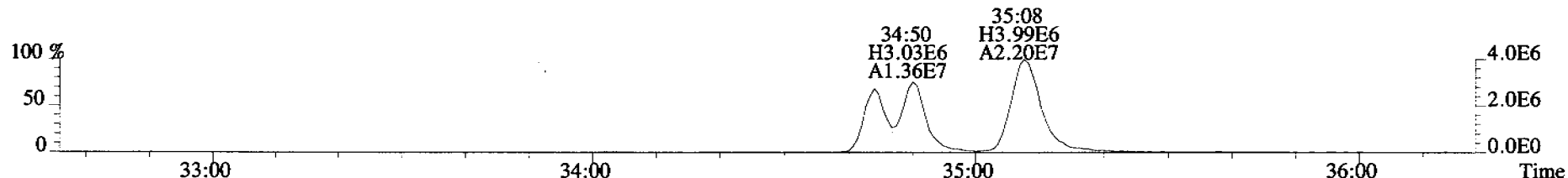
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



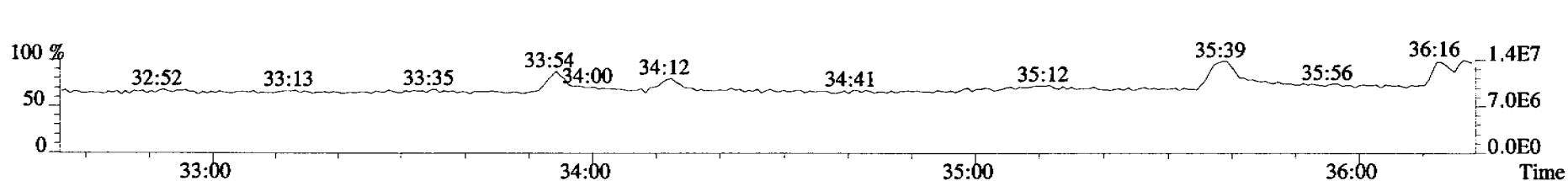
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



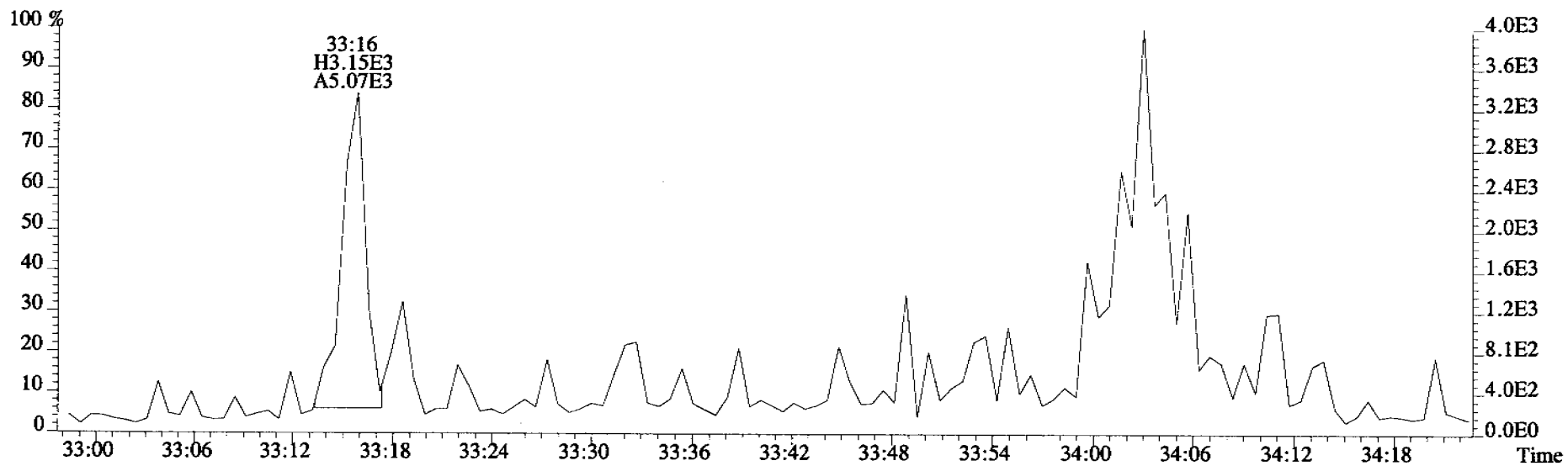
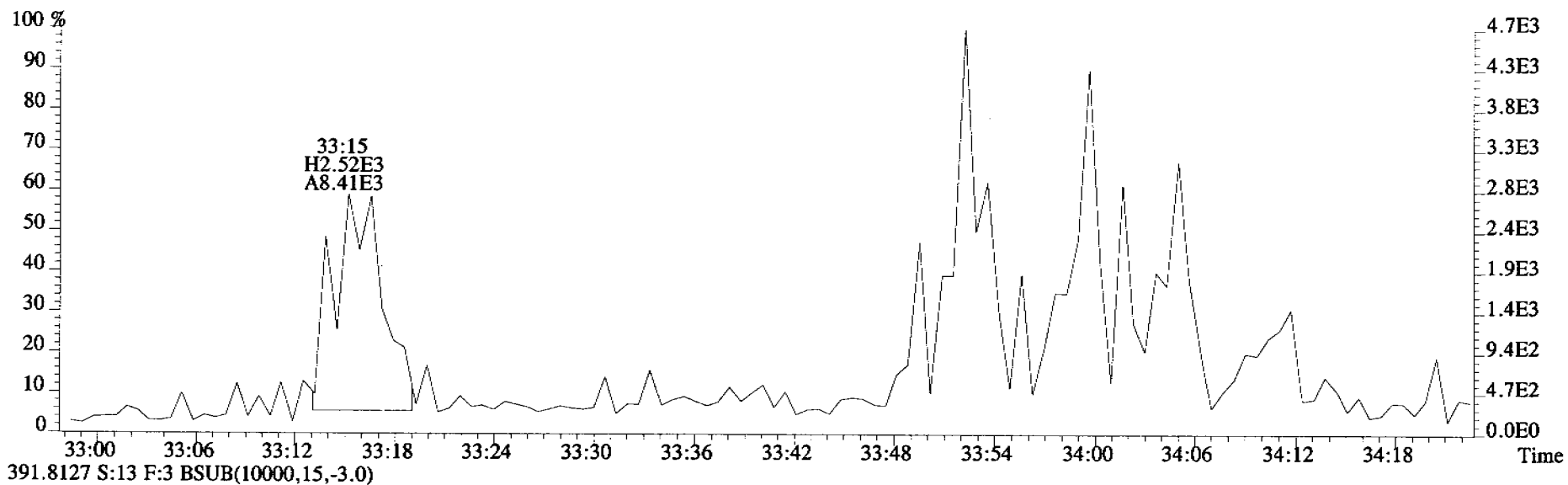
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



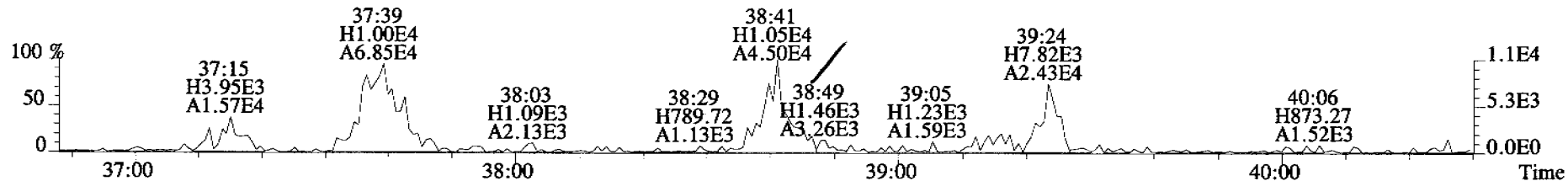
380.9760 S:13 F:3



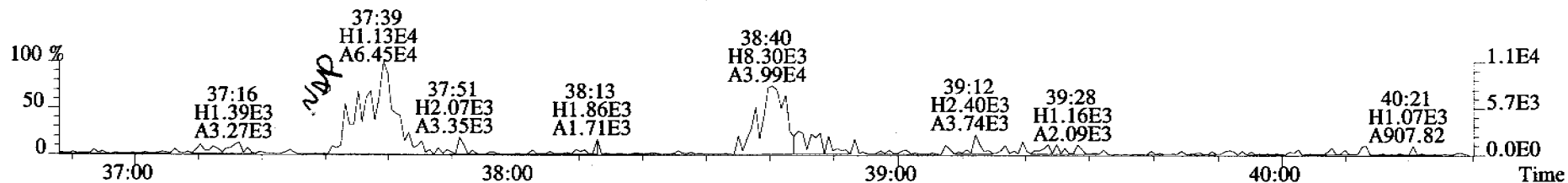
File:060920C2 #1-362 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0)



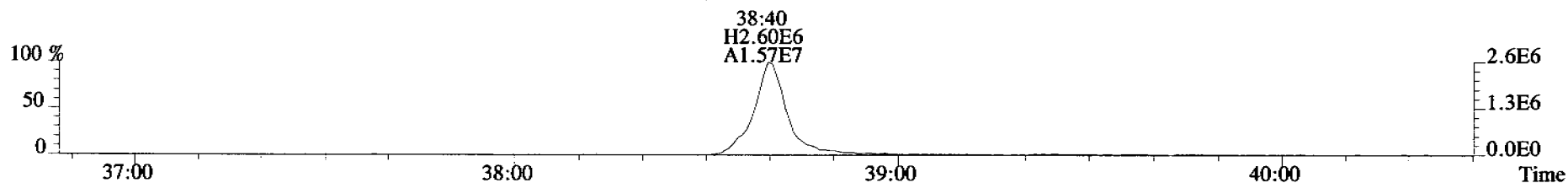
File:060920C2 #1-400 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



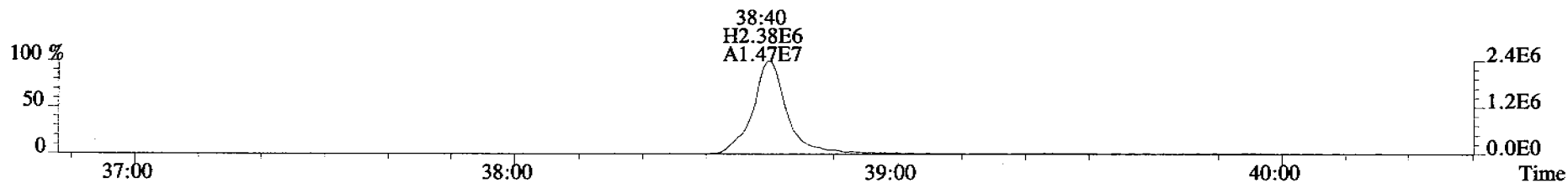
425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



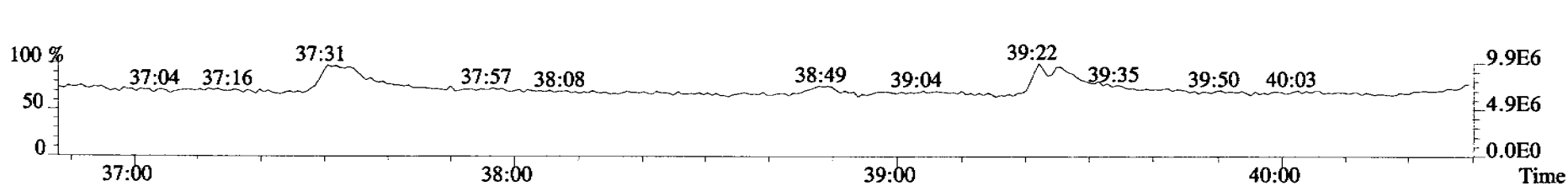
435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



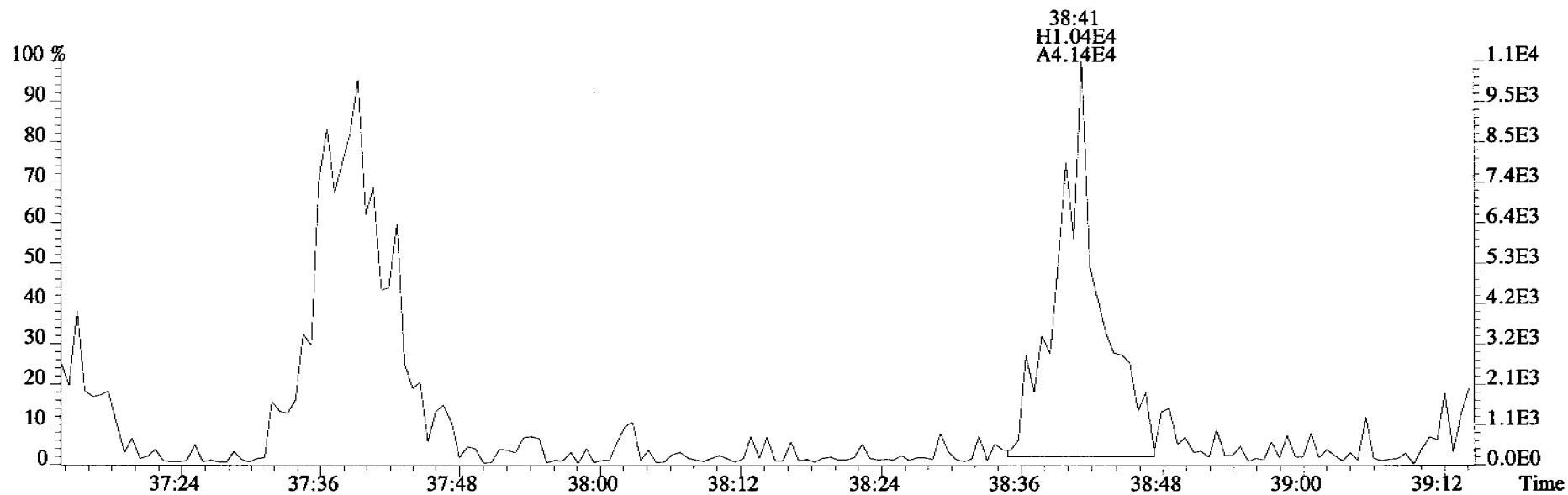
437.8140 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



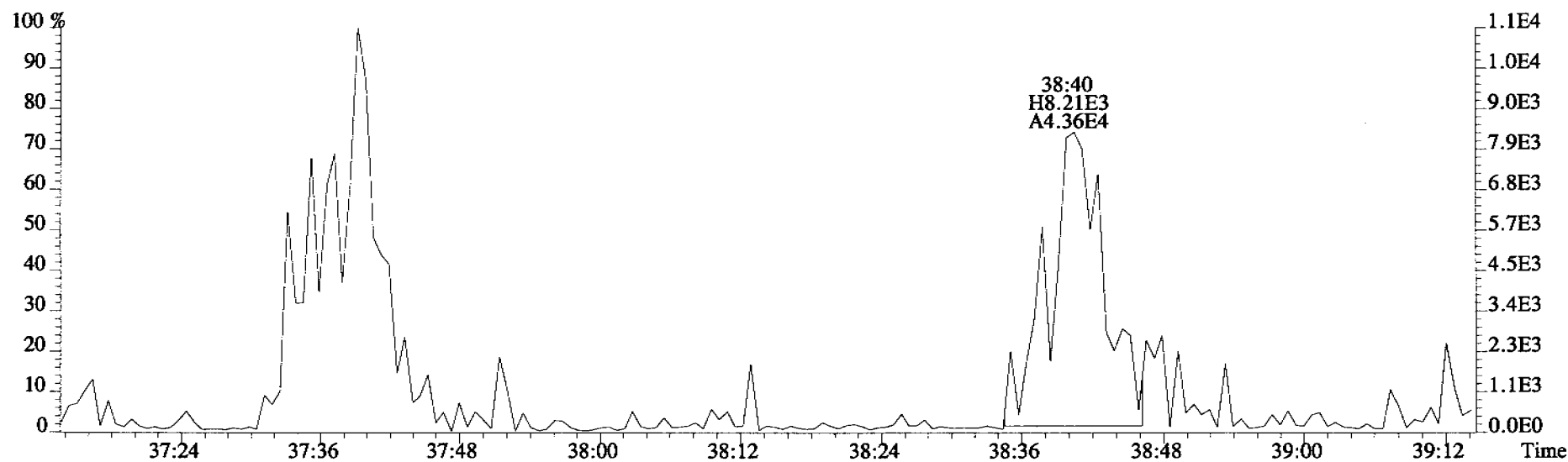
430.9728 S:13 F:4



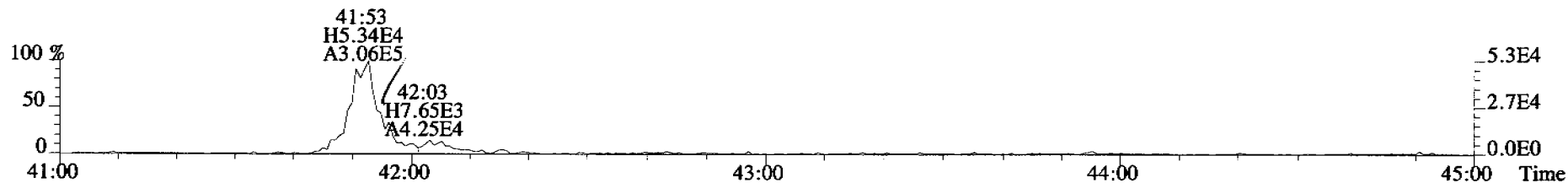
File:060920C2 #1-400 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114 8381 001 IPI1289-01 0.9890L Exp:OCDD_DB5
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



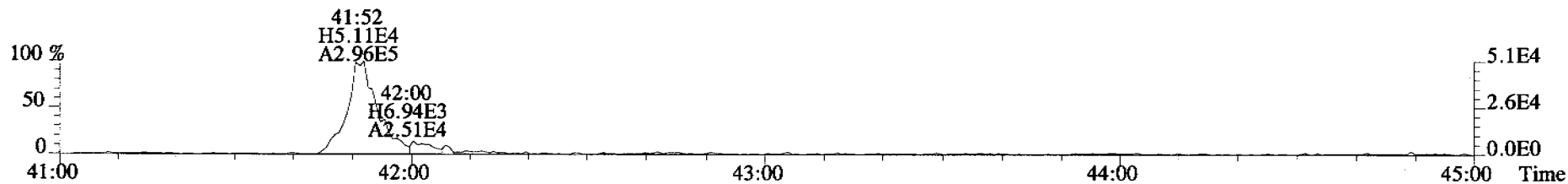
425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



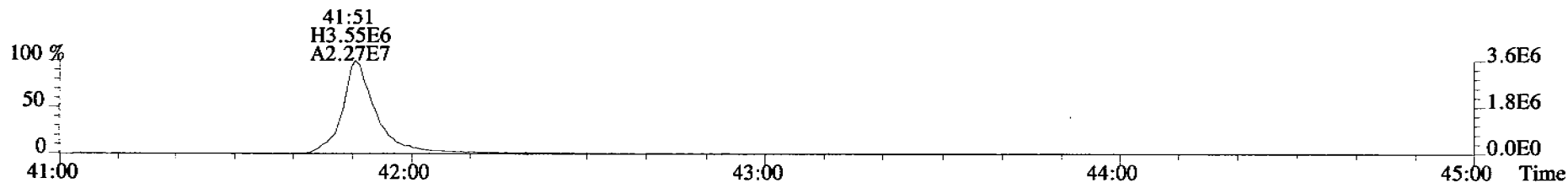
File:060920C2 #1-345 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



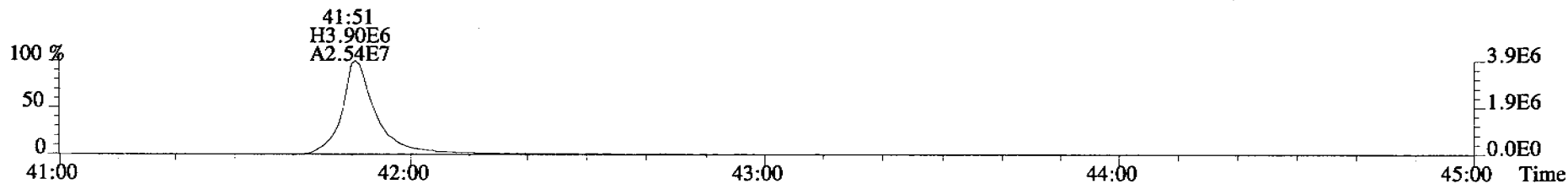
459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



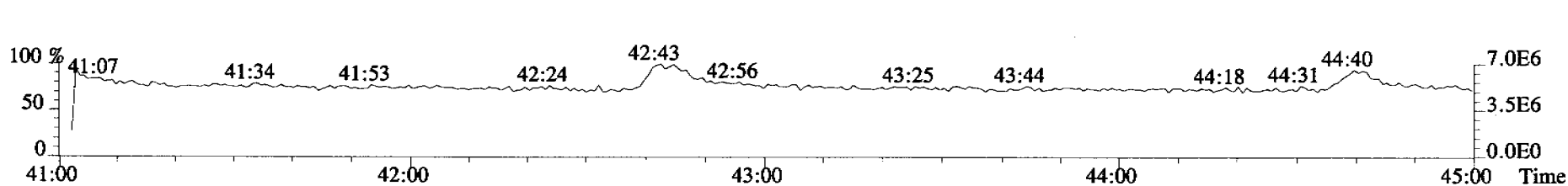
469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



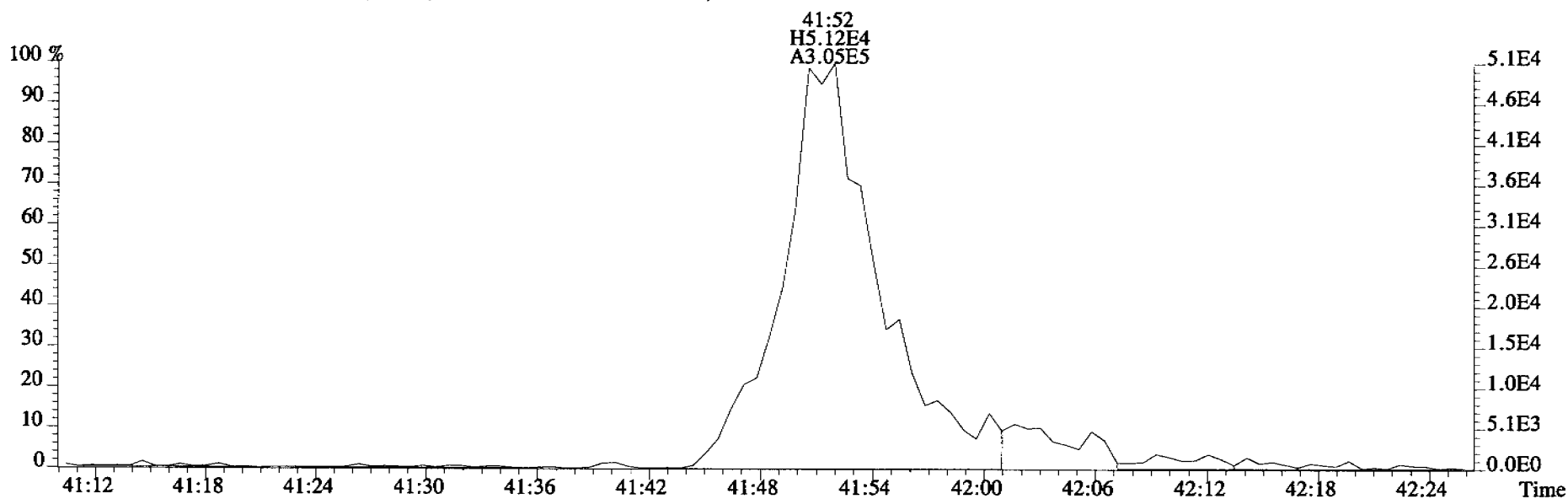
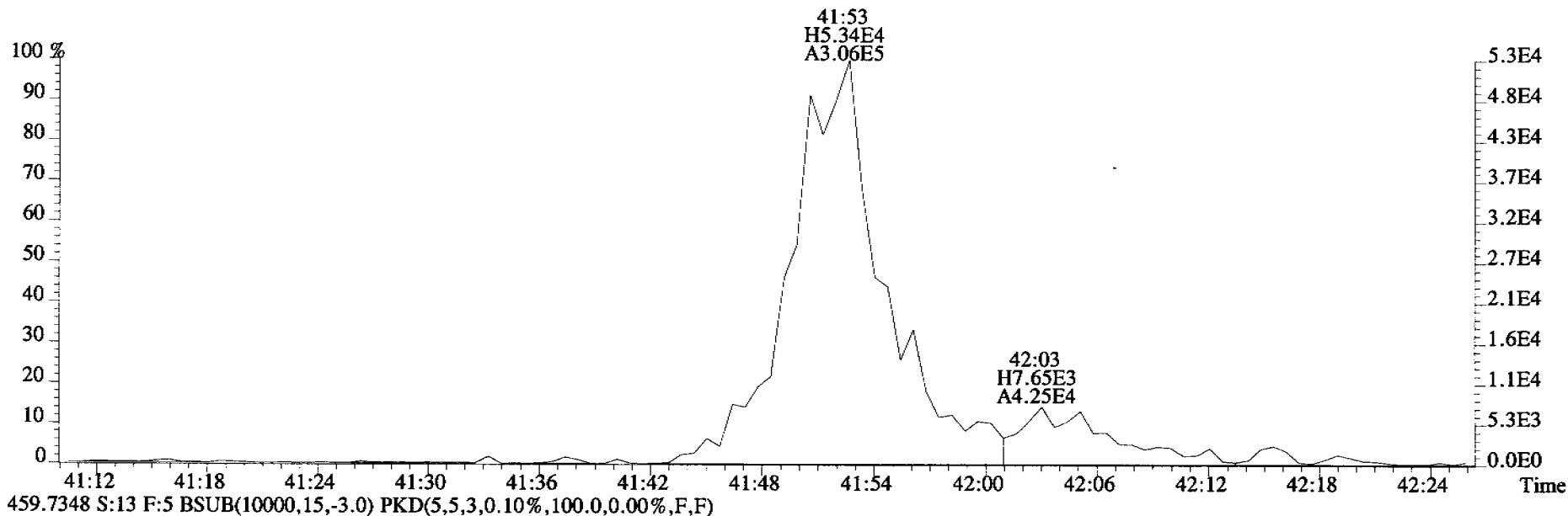
471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



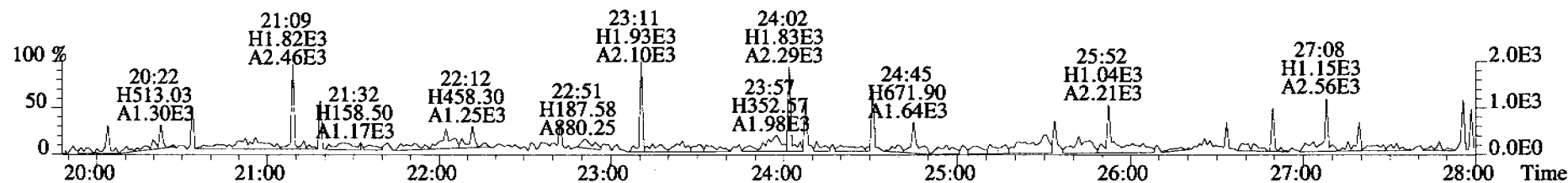
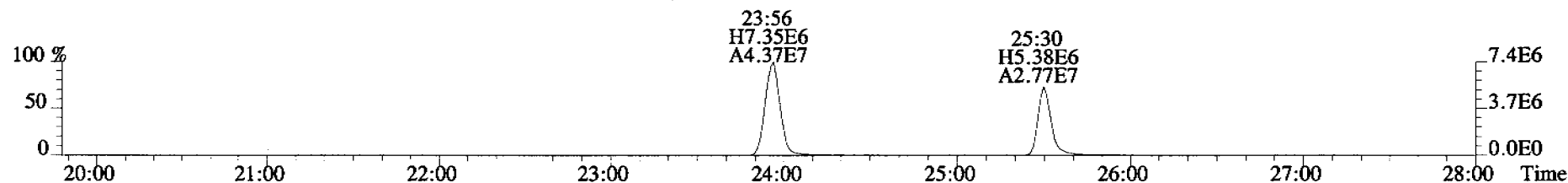
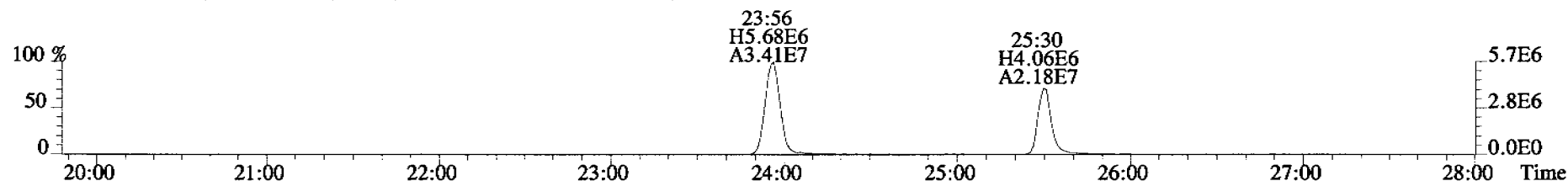
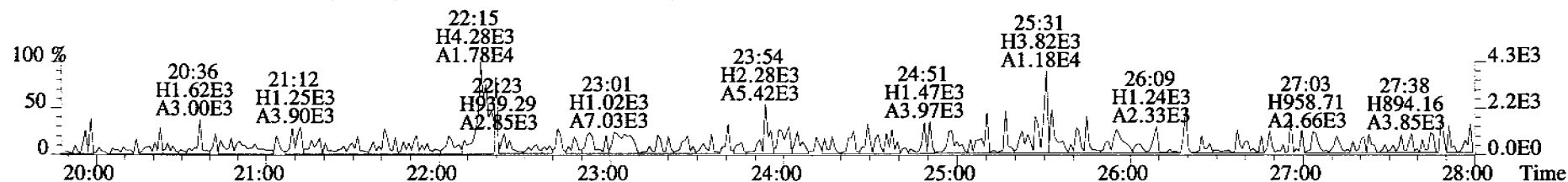
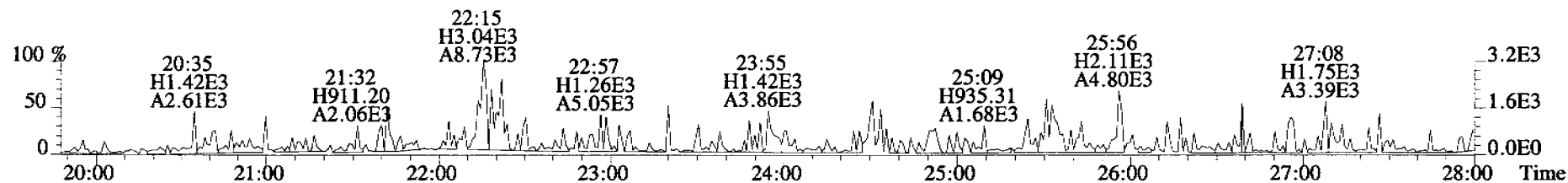
454.9728 S:13 F:5



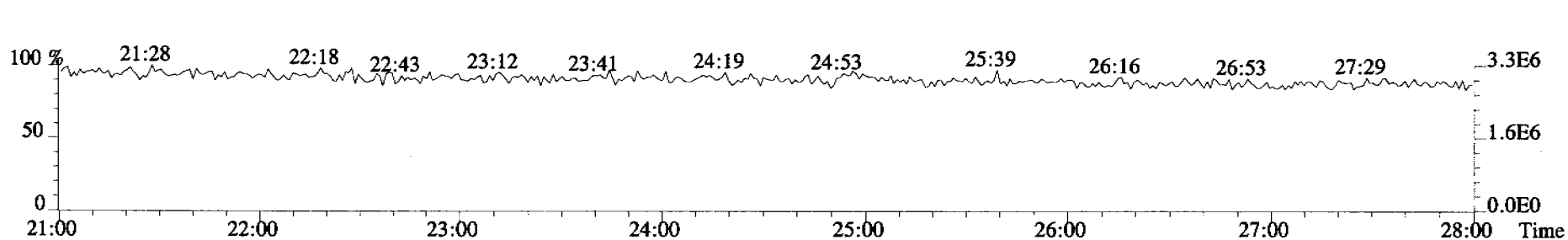
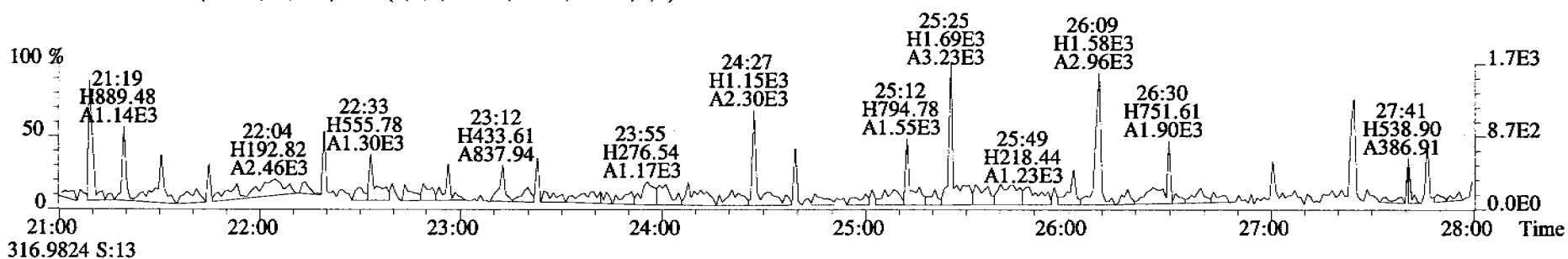
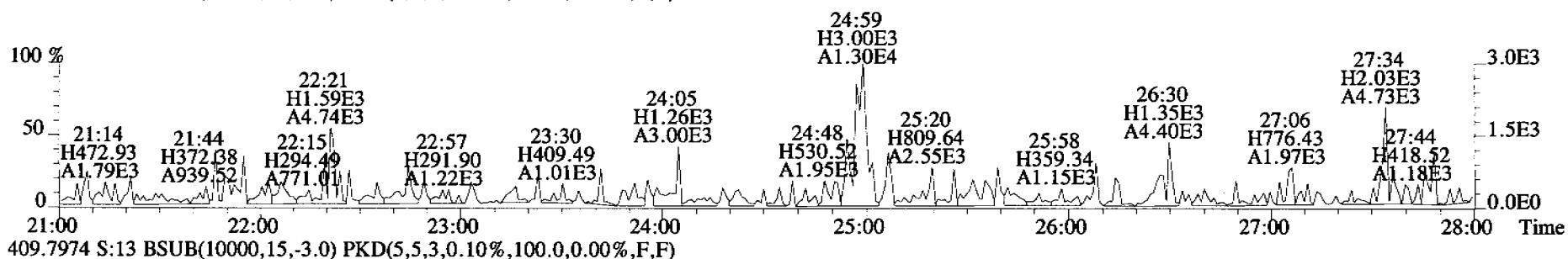
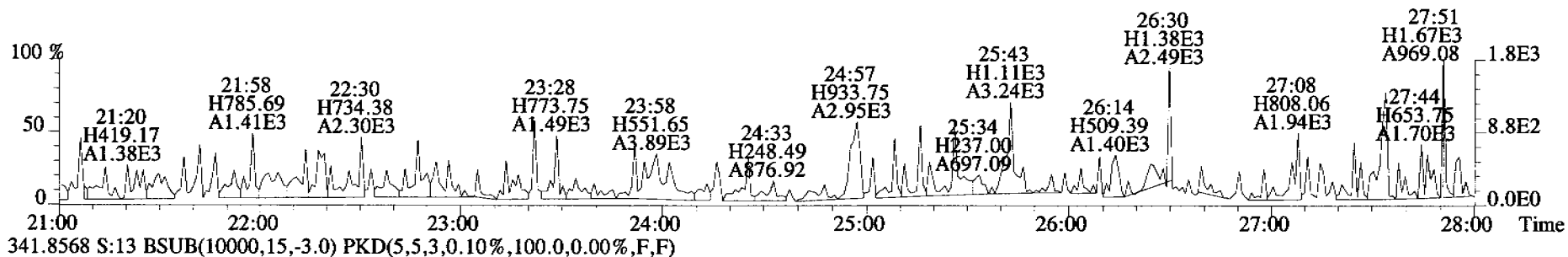
File:060920C2 #1-345 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114 8381 001 IPI1289-01 0.9890L Exp:OCDD_DB5
457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



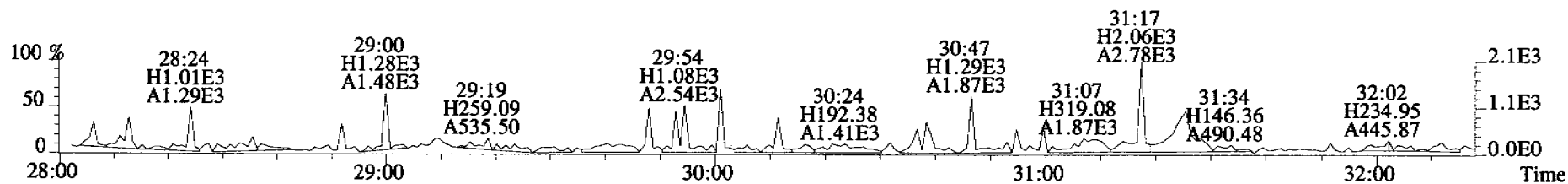
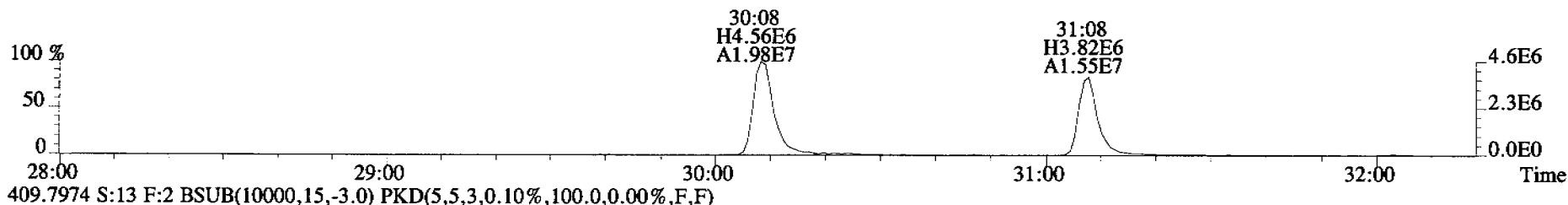
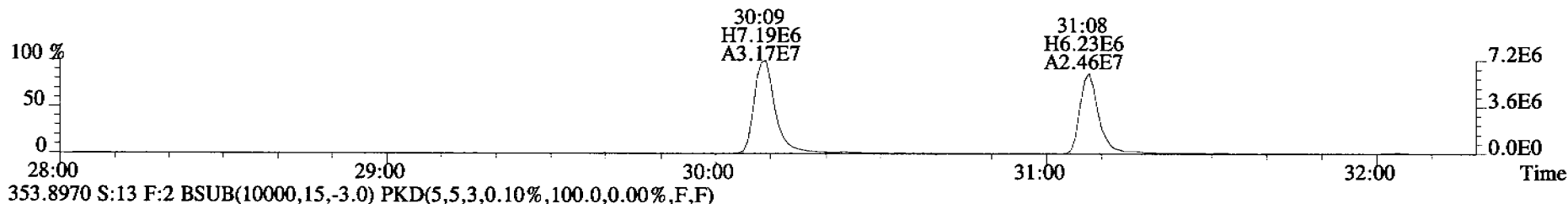
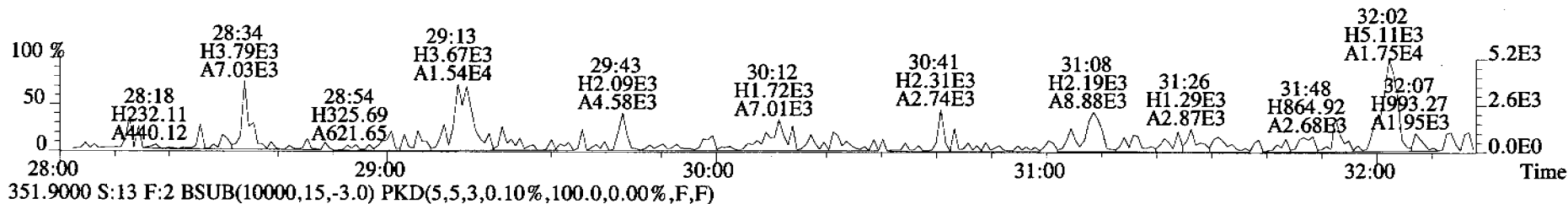
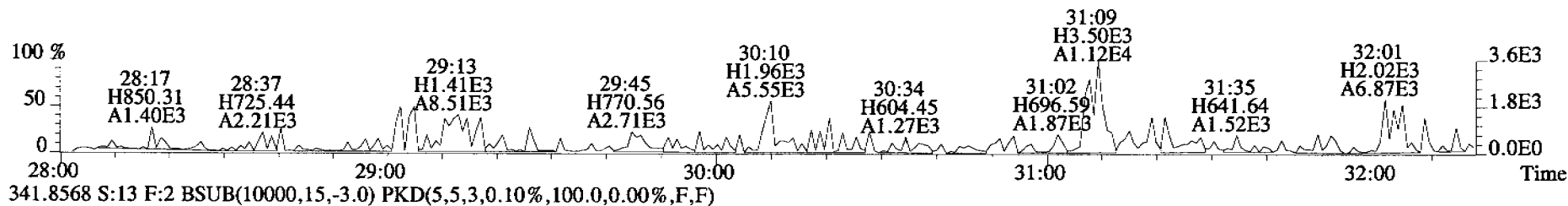
File:060920C2 #1-546 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



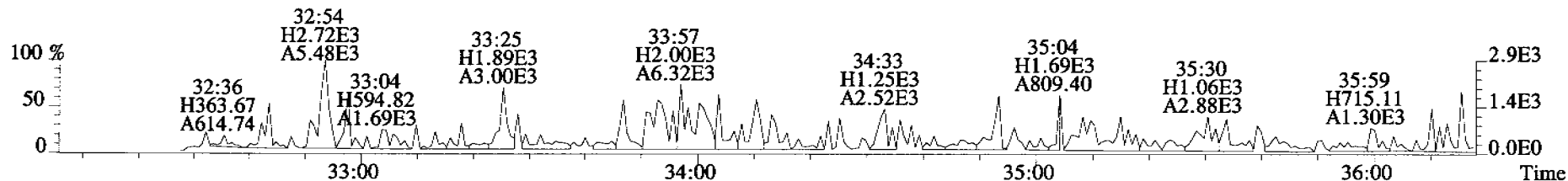
File:060920C2 #1-546 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114 8381 001 IPI1289-01 0.9890L Exp:OCDD_DB5
339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



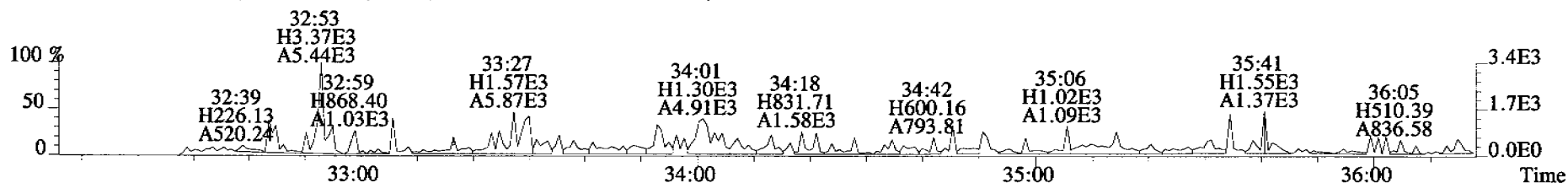
File:060920C2 #1-325 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



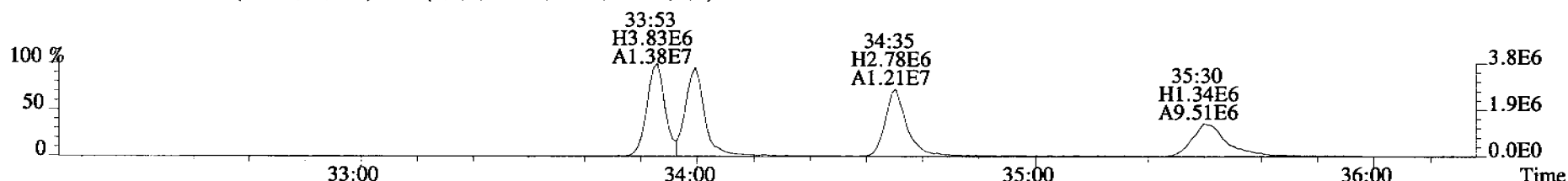
File:060920C2 #1-362 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
 373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



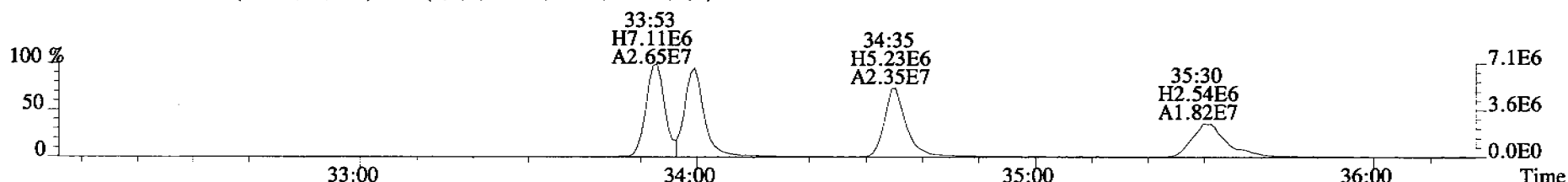
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



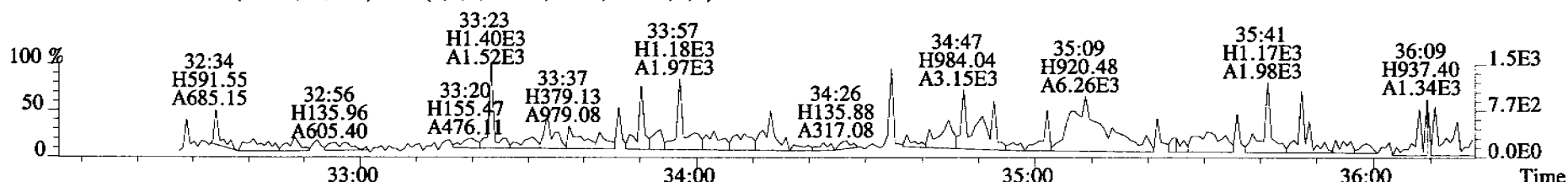
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



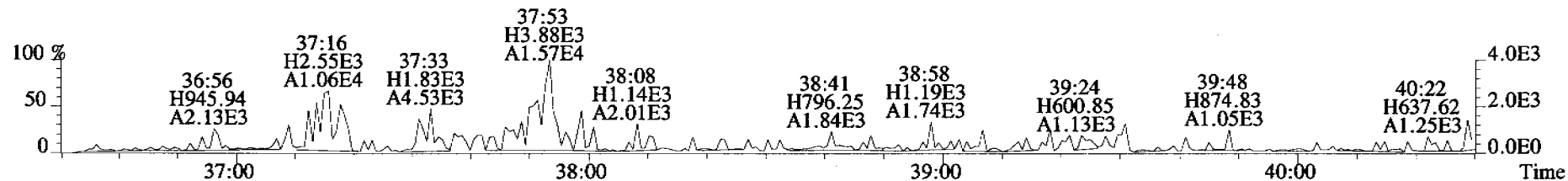
385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



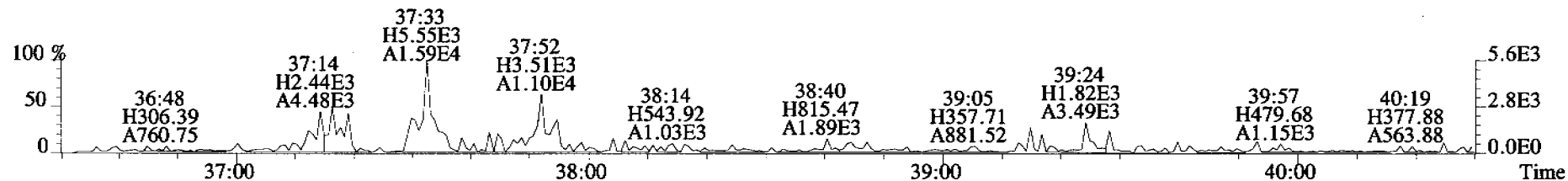
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



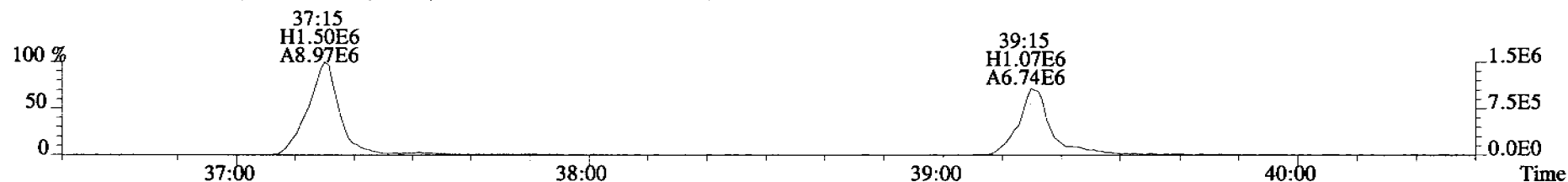
File:060920C2 #1-400 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
 407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



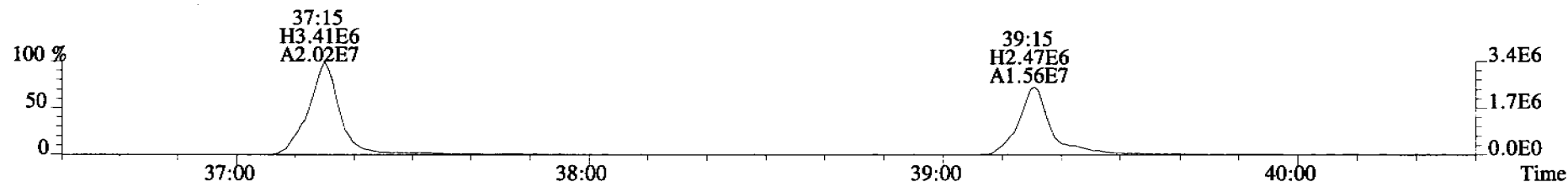
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



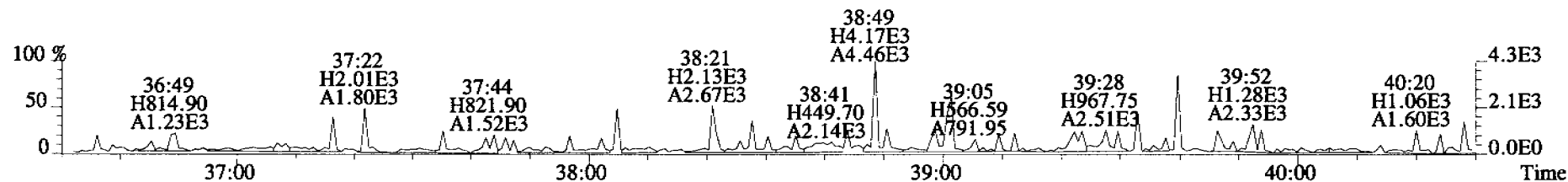
417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



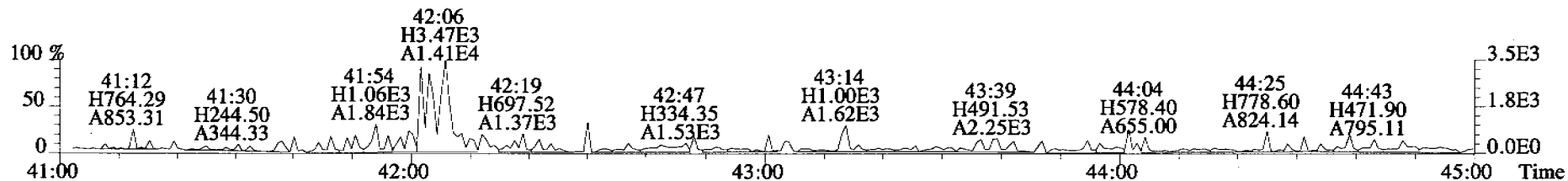
419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



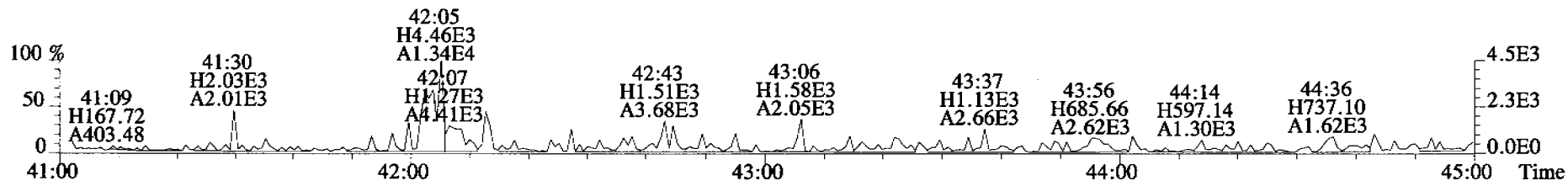
479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



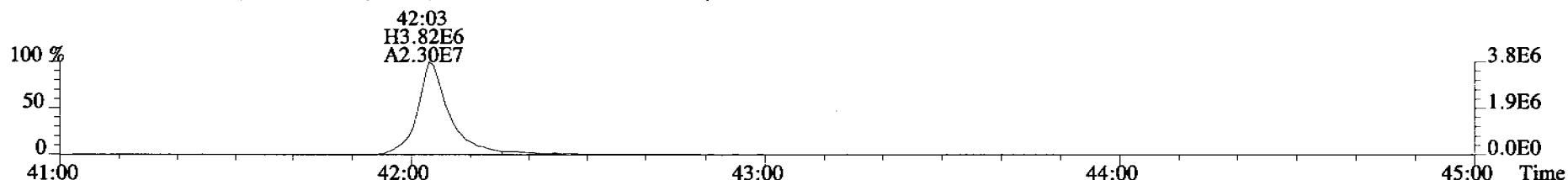
File:060920C2 #1-345 Acq:21-SEP-2006 01:09:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Alta Analytical Laboratory Text:28114_8381_001 IPI1289-01 0.9890L Exp:OCDD_DB5
441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



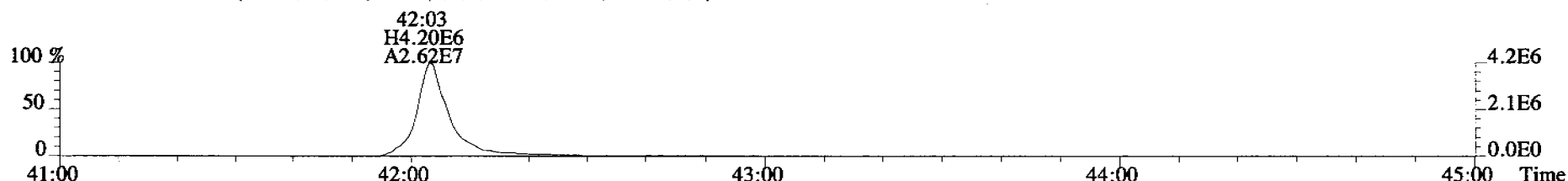
443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



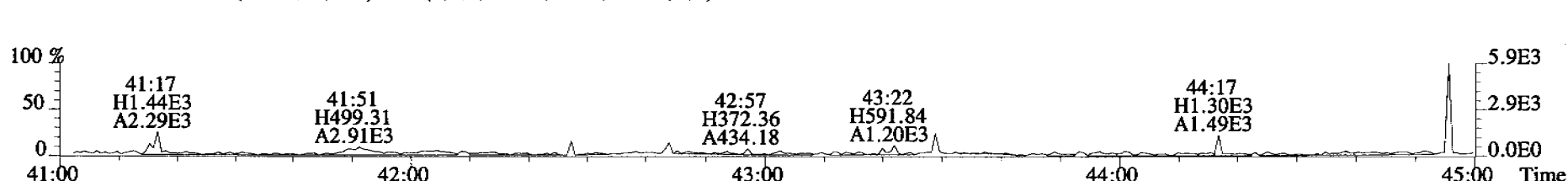
453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



ICAL

Run: 060322C1

Analyte:

Cal: 1613VG5-3-22-06

Inst. ID. VG-5

Data filename: 060322C1

			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	1.08	7.92 %	1.08	1.16	1.05	1.05	1.19	0.95
1,2,3,7,8-PeCDD	1.03	4.40 %	1.00	1.01	1.02	1.02	1.12	1.01
1,2,3,4,7,8-HxCDD	1.13	4.74 %	1.14	1.08	1.11	1.11	1.24	1.13
1,2,3,6,7,8-HxCDD	1.03	7.53 %	0.96	1.10	1.02	1.05	1.13	0.94
1,2,3,7,8,9-HxCDD	1.12	5.45 %	1.11	1.12	1.08	1.09	1.23	1.07
1,2,3,4,6,7,8-HpCDD	1.02	8.12 %	1.02	1.01	1.02	1.03	1.14	0.88
OCDD	1.06	5.69 %	1.04	1.07	0.98	1.08	1.15	1.02
2,3,7,8-TCDF	1.06	7.77 %	1.02	1.13	1.08	1.07	1.15	0.92
1,2,3,7,8-PeCDF	1.01	4.14 %	0.99	1.00	1.01	1.01	1.08	0.95
2,3,4,7,8-PeCDF	1.02	4.24 %	0.99	1.02	1.03	1.04	1.10	0.97
1,2,3,4,7,8-HxCDF	1.15	5.39 %	1.10	1.18	1.13	1.14	1.25	1.08
1,2,3,6,7,8-HxCDF	1.14	5.33 %	1.10	1.11	1.14	1.13	1.26	1.09
2,3,4,6,7,8-HxCDF	1.17	4.53 %	1.12	1.17	1.16	1.16	1.27	1.14
1,2,3,7,8,9-HxCDF	1.10	5.28 %	1.05	1.07	1.09	1.08	1.21	1.07
1,2,3,4,6,7,8-HpCDF	1.31	4.72 %	1.27	1.31	1.28	1.30	1.43	1.28
1,2,3,4,7,8,9-HpCDF	1.33	5.03 %	1.29	1.35	1.28	1.32	1.45	1.27
OCDF	0.91	3.45 %	0.88	0.90	0.91	0.90	0.97	0.90
13C-2,3,7,8-TCDD	1.09	2.67 %	1.13	1.08	1.09	1.08	1.05	1.12
13C-1,2,3,7,8-PeCDD	1.04	3.01 %	1.09	1.00	1.04	1.03	1.03	1.07
13C-1,2,3,4,7,8-HxCDD	0.83	2.39 %	0.79	0.85	0.83	0.83	0.83	0.84
13C-1,2,3,6,7,8-HxCDD	1.04	2.93 %	1.08	1.06	1.01	1.04	1.00	1.04
13C-1,2,3,4,6,7,8-HpCDD	0.85	5.38 %	0.83	0.81	0.87	0.79	0.89	0.91
13C-OCDD	0.71	11.07 %	0.69	0.66	0.70	0.63	0.75	0.85
13C-2,3,7,8-TCDF	0.96	4.18 %	1.02	0.96	0.92	0.99	0.93	0.92
13C-1,2,3,7,8-PeCDF	1.02	3.93 %	1.09	1.00	0.98	1.04	1.01	0.99
13C-2,3,4,7,8-PeCDF	1.02	4.06 %	1.09	1.00	1.00	1.05	1.00	0.98
13C-1,2,3,4,7,8-HxCDF	1.14	2.98 %	1.12	1.19	1.13	1.17	1.15	1.10
13C-1,2,3,6,7,8-HxCDF	1.40	4.36 %	1.43	1.49	1.38	1.43	1.37	1.31
13C-2,3,4,6,7,8-HxCDF	1.26	2.41 %	1.26	1.30	1.25	1.29	1.23	1.23
13C-1,2,3,7,8,9-HxCDF	1.08	1.14 %	1.10	1.07	1.08	1.08	1.07	1.10
13C-1,2,3,4,6,7,8-HpCDF	0.93	3.49 %	0.93	0.92	0.96	0.88	0.96	0.95
13C-1,2,3,4,7,8,9-HpCDF	0.77	6.13 %	0.74	0.74	0.77	0.71	0.80	0.84
13C-OCDF	0.94	9.65 %	0.93	0.89	0.91	0.84	0.98	1.10
37Cl-2,3,7,8-TCDD	0.77	2.76 %	0.78	0.76	0.77	0.74	0.79	0.80
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-1,2,3,7,8,9-HxCDD	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

MS 7/23/04

ok 9/3/23/06

Filename: 060322C1 S: 1 Acquired: 22-MAR-06 09:32:59

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-1 1613 CS3 060110H

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	1.79e+07	0.78 y	26:33	-	1.08
2	Unk	1,2,3,7,8-PeCDD	50.00	7.94e+07	0.63 y	31:17	-	1.00
3	Unk	1,2,3,4,7,8-HxCDD	50.00	7.27e+07	1.23 y	34:34	-	1.14
4	Unk	1,2,3,6,7,8-HxCDD	50.00	8.37e+07	1.27 y	34:41	-	0.96
5	Unk	1,2,3,7,8,9-HxCDD	50.00	8.40e+07	1.24 y	34:58	-	1.11
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	6.84e+07	1.03 y	38:31	-	1.02
7	Unk	OCDD	100.00	1.16e+08	0.90 y	41:47	-	1.04
8	Unk	2,3,7,8-TCDF	10.00	2.23e+07	0.77 y	25:42	-	1.02
9	Unk	1,2,3,7,8-PeCDF	50.00	1.15e+08	1.55 y	30:03	-	0.99
10	Unk	2,3,4,7,8-PeCDF	50.00	1.15e+08	1.55 y	30:59	-	0.99
11	Unk	1,2,3,4,7,8-HxCDF	50.00	9.97e+07	1.23 y	33:41	-	1.10
12	Unk	1,2,3,6,7,8-HxCDF	50.00	1.27e+08	1.24 y	33:49	-	1.10
13	Unk	2,3,4,6,7,8-HxCDF	50.00	1.14e+08	1.24 y	34:25	-	1.12
14	Unk	1,2,3,7,8,9-HxCDF	50.00	9.32e+07	1.25 y	35:21	-	1.05
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	9.59e+07	1.01 y	37:07	-	1.27
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	7.72e+07	1.02 y	39:04	-	1.29
17	Unk	OCDF	100.00	1.33e+08	0.89 y	42:00	-	0.88
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08
19	Tot	TCDD EMPC	0.00	-	- n	-	-	1.08
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.00
21	Tot	PeCDD EMPC	0.00	-	- n	-	-	1.00
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	-	-	1.02
25	Tot	HpCDD EMPC	0.00	-	- n	-	-	1.02
26	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.02
27	Tot	TCDF EMPC	0.00	-	- n	-	-	1.02
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	-	0.99
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	-	0.99
30	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.99
31	Tot	PeCDF EMPC	0.00	-	- n	-	-	0.99
32	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.10
33	Tot	HxCDF EMPC	0.00	-	- n	-	-	1.10
34	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.28
35	Tot	HpCDF EMPC	0.00	-	- n	-	-	1.28
36	IS	13C-2,3,7,8-TCDD	100.00	1.66e+08	0.78 y	26:31	-	1.13
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.59e+08	0.65 y	31:16	-	1.09
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.28e+08	1.25 y	34:33	-	0.79

39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.75e+08	1.26 y	34:40	-	1.08
40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.34e+08	1.07 y	38:30	-	0.83
41	IS	13C-OCDD	200.00	2.24e+08	0.89 y	41:46	-	0.69
42	IS	13C-2,3,7,8-TCDF	100.00	2.18e+08	0.79 y	25:41	-	1.02
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.32e+08	1.59 y	30:02	-	1.09
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.32e+08	1.61 y	30:59	-	1.09
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.81e+08	0.52 y	33:40	-	1.12
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.31e+08	0.54 y	33:48	-	1.43
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.04e+08	0.54 y	34:24	-	1.26
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.78e+08	0.53 y	35:20	-	1.10
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.51e+08	0.43 y	37:05	-	0.93
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.20e+08	0.44 y	39:04	-	0.74
51	IS	13C-OCDF	200.00	3.02e+08	0.91 y	41:59	-	0.93

52	C/Up	37Cl-2,3,7,8-TCDD	10.00	1.15e+07		26:32	-	0.78
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.47e+08	0.80 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.13e+08	0.78 y	24:18	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.62e+08	1.27 y	34:58	-	1.00

Filename: 060322C1 S: 3 Acquired: 22-MAR-06 11:12:17

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-2 1613 CS0 060110E

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	4.63e+05	0.72 y	26:33	-	1.16
2	Unk	1,2,3,7,8-PeCDD	1.25	1.87e+06	0.60 y	31:17	-	1.01
3	Unk	1,2,3,4,7,8-HxCDD	1.25	1.65e+06	1.24 y	34:34	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	1.25	2.11e+06	1.29 y	34:41	-	1.10
5	Unk	1,2,3,7,8,9-HxCDD	1.25	1.94e+06	1.31 y	34:59	-	1.12
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	1.49e+06	0.96 y	38:32	-	1.01
7	Unk	OCDD	2.50	2.54e+06	0.82 y	41:46	-	1.07
8	Unk	2,3,7,8-TCDF	0.25	5.89e+05	0.73 y	25:43	-	1.13
9	Unk	1,2,3,7,8-PeCDF	1.25	2.72e+06	1.49 y	30:03	-	1.00
10	Unk	2,3,4,7,8-PeCDF	1.25	2.78e+06	1.58 y	30:59	-	1.02
11	Unk	1,2,3,4,7,8-HxCDF	1.25	2.55e+06	1.25 y	33:41	-	1.18
12	Unk	1,2,3,6,7,8-HxCDF	1.25	2.98e+06	1.31 y	33:49	-	1.11
13	Unk	2,3,4,6,7,8-HxCDF	1.25	2.76e+06	1.26 y	34:25	-	1.17
14	Unk	1,2,3,7,8,9-HxCDF	1.25	2.08e+06	1.22 y	35:21	-	1.07
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	2.19e+06	1.00 y	37:07	-	1.31
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	1.82e+06	0.99 y	39:05	-	1.35
17	Unk	OCDF	2.50	2.91e+06	0.90 y	41:59	-	0.90
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	-	-	1.01
21	Tot	PeCDD EMPC	0.00	-	- n	-	-	1.01
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.10
23	Tot	HxCDD EMPC	0.00	-	- n	-	-	1.10
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.01
25	Tot	HpCDD EMPC	0.00	-	- n	-	-	1.01
26	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.13
27	Tot	TCDF EMPC	0.00	-	- n	-	-	1.13
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	-	1.01
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.01
30	Tot	Total Penta-Furans	0.00	-	- n	-	-	1.01
31	Tot	PeCDF EMPC	0.00	-	- n	-	-	1.01
32	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.13
33	Tot	HxCDF EMPC	0.00	-	- n	-	-	1.13
34	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.33
35	Tot	HpCDF EMPC	0.00	-	- n	-	-	1.33
36	IS	13C-2,3,7,8-TCDD	100.00	1.60e+08	0.80 y	26:32	-	1.08
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.49e+08	0.64 y	31:16	-	1.00
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.23e+08	1.27 y	34:33	-	0.85
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.54e+08	1.27 y	34:40	-	1.06

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.18e+08	1.07 y	38:32	-	0.81
41	IS	13C-OCDD	200.00	1.91e+08	0.90 y	41:47	-	0.66
42	IS	13C-2,3,7,8-TCDF	100.00	2.08e+08	0.79 y	25:41	-	0.96
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.17e+08	1.60 y	30:02	-	1.00
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.17e+08	1.58 y	30:58	-	1.00
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.73e+08	0.54 y	33:41	-	1.19
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.15e+08	0.53 y	33:49	-	1.49
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.89e+08	0.52 y	34:24	-	1.30
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.56e+08	0.53 y	35:20	-	1.07
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.34e+08	0.43 y	37:07	-	0.92
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.08e+08	0.43 y	39:04	-	0.74
51	IS	13C-OCDF	200.00	2.57e+08	0.88 y	41:59	-	0.89

52	C/Up	37C1-2,3,7,8-TCDD	0.25	2.81e+05		26:33	-	0.76
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.48e+08	0.80 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.18e+08	0.79 y	24:18	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.45e+08	1.26 y	34:58	-	1.00

Filename: 060322C1 S: 4 Acquired: 22-MAR-06 12:02:01
 Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06 Results:
 Sample text: ST060322C1-3 1613 CS1 060110F

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	8.69e+05	0.73 y	26:33	- 1.05
2	Unk	1,2,3,7,8-PeCDD	2.50	4.04e+06	0.64 y	31:16	- 1.02
3	Unk	1,2,3,4,7,8-HxCDD	2.50	3.83e+06	1.23 y	34:34	- 1.11
4	Unk	1,2,3,6,7,8-HxCDD	2.50	4.26e+06	1.27 y	34:40	- 1.02
5	Unk	1,2,3,7,8,9-HxCDD	2.50	4.12e+06	1.34 y	34:58	- 1.08
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	3.65e+06	0.98 y	38:30	- 1.02
7	Unk	OCDD	5.00	5.67e+06	0.86 y	41:46	- 0.98
8	Unk	2,3,7,8-TCDF	0.50	1.16e+06	0.79 y	25:43	- 1.08
9	Unk	1,2,3,7,8-PeCDF	2.50	5.73e+06	1.60 y	30:02	- 1.01
10	Unk	2,3,4,7,8-PeCDF	2.50	5.95e+06	1.52 y	30:59	- 1.03
11	Unk	1,2,3,4,7,8-HxCDF	2.50	5.27e+06	1.27 y	33:41	- 1.13
12	Unk	1,2,3,6,7,8-HxCDF	2.50	6.53e+06	1.25 y	33:49	- 1.14
13	Unk	2,3,4,6,7,8-HxCDF	2.50	5.96e+06	1.26 y	34:25	- 1.16
14	Unk	1,2,3,7,8,9-HxCDF	2.50	4.89e+06	1.23 y	35:20	- 1.09
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	5.05e+06	1.01 y	37:06	- 1.28
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	4.06e+06	1.00 y	39:03	- 1.28
17	Unk	OCDF	5.00	6.85e+06	0.87 y	42:00	- 0.91
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.05
19	Tot	TCDD EMPC	0.00	-	- n	-	- 1.05
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.02
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.02
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	-	- 1.02
25	Tot	HpCDD EMPC	0.00	-	- n	-	- 1.02
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	-	- 1.02
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	- 1.02
30	Tot	Total Penta-Furans	0.00	-	- n	-	- 1.02
31	Tot	PeCDF EMPC	0.00	-	- n	-	- 1.02
32	Tot	Total Hexa-Furans	0.00	-	- n	-	- 1.13
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.13
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.28
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.28
36	IS	13C-2,3,7,8-TCDD	100.00	1.66e+08	0.78 y	26:31	- 1.09
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.59e+08	0.64 y	31:15	- 1.04
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.37e+08	1.27 y	34:33	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.68e+08	1.27 y	34:39	- 1.01

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.44e+08	1.07 y	38:30	-	0.87
41	IS	13C-OCDD	200.00	2.32e+08	0.91 y	41:46	-	0.70
42	IS	13C-2,3,7,8-TCDF	100.00	2.15e+08	0.80 y	25:42	-	0.92
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.28e+08	1.60 y	30:01	-	0.98
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.32e+08	1.57 y	30:58	-	1.00
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.86e+08	0.52 y	33:40	-	1.13
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.28e+08	0.52 y	33:48	-	1.38
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.06e+08	0.52 y	34:24	-	1.25
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.79e+08	0.52 y	35:19	-	1.08
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.58e+08	0.45 y	37:05	-	0.96
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.27e+08	0.44 y	39:03	-	0.77
51	IS	13C-OCDF	200.00	3.02e+08	0.89 y	41:59	-	0.91

52	C/Up	37C1-2,3,7,8-TCDD	0.50	5.89e+05		26:33	-	0.77
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.53e+08	0.80 y	25:54	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.32e+08	0.78 y	24:19	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.65e+08	1.29 y	34:57	-	1.00

Filename: 060322C1 S: 5 Acquired: 22-MAR-06 12:51:46
 Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06 Results:
 Sample text: ST060322C1-4 1613 CS2 060110G

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	3.64e+06	0.80 y	26:33	- 1.05
2	Unk	1,2,3,7,8-PeCDD	10.00	1.69e+07	0.63 y	31:17	- 1.02
3	Unk	1,2,3,4,7,8-HxCDD	10.00	1.53e+07	1.25 y	34:34	- 1.11
4	Unk	1,2,3,6,7,8-HxCDD	10.00	1.82e+07	1.28 y	34:41	- 1.05
5	Unk	1,2,3,7,8,9-HxCDD	10.00	1.69e+07	1.27 y	34:58	- 1.09
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	1.36e+07	1.05 y	38:32	- 1.03
7	Unk	OCDD	20.00	2.24e+07	0.90 y	41:52	- 1.08
8	Unk	2,3,7,8-TCDF	2.00	4.80e+06	0.77 y	25:43	- 1.07
9	Unk	1,2,3,7,8-PeCDF	10.00	2.39e+07	1.53 y	30:02	- 1.01
10	Unk	2,3,4,7,8-PeCDF	10.00	2.49e+07	1.60 y	30:59	- 1.04
11	Unk	1,2,3,4,7,8-HxCDF	10.00	2.22e+07	1.23 y	33:41	- 1.14
12	Unk	1,2,3,6,7,8-HxCDF	10.00	2.68e+07	1.23 y	33:49	- 1.13
13	Unk	2,3,4,6,7,8-HxCDF	10.00	2.49e+07	1.22 y	34:25	- 1.16
14	Unk	1,2,3,7,8,9-HxCDF	10.00	1.94e+07	1.24 y	35:20	- 1.08
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	1.89e+07	1.04 y	37:08	- 1.30
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	1.55e+07	1.03 y	39:05	- 1.32
17	Unk	OCDF	20.00	2.53e+07	0.87 y	42:03	- 0.90
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.05
19	Tot	TCDD EMPC	0.00	-	- n	-	- 1.05
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.02
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.02
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	- 1.08
23	Tot	HxCDD EMPC	0.00	-	- n	-	- 1.08
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	- 1.03
25	Tot	HpCDD EMPC	0.00	-	- n	-	- 1.03
26	Tot	Total Tetra-Furans	0.00	-	- n	-	- 1.07
27	Tot	TCDF EMPC	0.00	-	- n	-	- 1.07
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	- 1.03
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	- 1.03
30	Tot	Total Penta-Furans	0.00	-	- n	-	- 1.03
31	Tot	PeCDF EMPC	0.00	-	- n	-	- 1.03
32	Tot	Total Hexa-Furans	0.00	-	- n	-	- 1.13
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.13
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.31
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.31
36	IS	13C-2,3,7,8-TCDD	100.00	1.73e+08	0.79 y	26:32	- 1.08
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.65e+08	0.64 y	31:16	- 1.03
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.38e+08	1.27 y	34:33	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.73e+08	1.27 y	34:40	- 1.04

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.32e+08	1.09 y	38:31	-	0.79
41	IS	13C-OCDD	200.00	2.08e+08	0.89 y	41:51	-	0.63
42	IS	13C-2,3,7,8-TCDF	100.00	2.25e+08	0.79 y	25:42	-	0.99
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.36e+08	1.59 y	30:02	-	1.04
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.39e+08	1.59 y	30:59	-	1.05
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.95e+08	0.52 y	33:40	-	1.17
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.36e+08	0.52 y	33:48	-	1.43
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.14e+08	0.52 y	34:24	-	1.29
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.79e+08	0.53 y	35:20	-	1.08
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.45e+08	0.45 y	37:07	-	0.88
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.18e+08	0.43 y	39:03	-	0.71
51	IS	13C-OCDF	200.00	2.80e+08	0.88 y	42:02	-	0.84

52	C/Up	37C1-2,3,7,8-TCDD	2.00	2.38e+06		26:33	-	0.74
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.61e+08	0.80 y	25:54	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.27e+08	0.79 y	24:19	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.66e+08	1.26 y	34:57	-	1.00

Filename: 060322C1 S: 6 Acquired: 22-MAR-06 13:41:25

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-5 1613 CS4 060110I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	6.96e+07	0.78 y	26:33	- 1.19
2	Unk	1,2,3,7,8-PeCDD	200.00	3.19e+08	0.64 y	31:16	- 1.12
3	Unk	1,2,3,4,7,8-HxCDD	200.00	2.97e+08	1.24 y	34:33	- 1.24
4	Unk	1,2,3,6,7,8-HxCDD	200.00	3.27e+08	1.25 y	34:40	- 1.13
5	Unk	1,2,3,7,8,9-HxCDD	200.00	3.27e+08	1.24 y	34:57	- 1.23
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	2.90e+08	1.03 y	38:31	- 1.14
7	Unk	OCDD	400.00	4.99e+08	0.91 y	41:47	- 1.15
8	Unk	2,3,7,8-TCDF	40.00	8.69e+07	0.76 y	25:42	- 1.15
9	Unk	1,2,3,7,8-PeCDF	200.00	4.43e+08	1.54 y	30:01	- 1.08
10	Unk	2,3,4,7,8-PeCDF	200.00	4.46e+08	1.54 y	30:58	- 1.10
11	Unk	1,2,3,4,7,8-HxCDF	200.00	4.16e+08	1.22 y	33:40	- 1.25
12	Unk	1,2,3,6,7,8-HxCDF	200.00	4.97e+08	1.23 y	33:48	- 1.26
13	Unk	2,3,4,6,7,8-HxCDF	200.00	4.54e+08	1.22 y	34:24	- 1.27
14	Unk	1,2,3,7,8,9-HxCDF	200.00	3.74e+08	1.25 y	35:20	- 1.21
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	3.99e+08	1.02 y	37:06	- 1.43
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	3.35e+08	1.03 y	39:03	- 1.45
17	Unk	OCDF	400.00	5.50e+08	0.87 y	41:59	- 0.97
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.19
19	Tot	TCDD EMPC	0.00	-	- n	-	- 1.19
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.12
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.12
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	- 1.20
23	Tot	HxCDD EMPC	0.00	-	- n	-	- 1.20
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	-	- 1.09
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	-	- 1.25
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.25
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.44
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.44
36	IS	13C-2,3,7,8-TCDD	100.00	1.46e+08	0.79 y	26:31	- 1.05
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.43e+08	0.65 y	31:14	- 1.03
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.20e+08	1.25 y	34:32	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.44e+08	1.26 y	34:39	- 1.00

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.28e+08	1.06 y	38:30	-	0.89
41	IS	13C-OCDD	200.00	2.16e+08	0.91 y	41:46	-	0.75
42	IS	13C-2,3,7,8-TCDF	100.00	1.89e+08	0.80 y	25:41	-	0.93
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.05e+08	1.60 y	30:01	-	1.01
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.04e+08	1.58 y	30:57	-	1.00
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.67e+08	0.52 y	33:39	-	1.15
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.98e+08	0.52 y	33:47	-	1.37
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.78e+08	0.52 y	34:23	-	1.23
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.54e+08	0.54 y	35:19	-	1.07
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.39e+08	0.44 y	37:05	-	0.96
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.16e+08	0.44 y	39:03	-	0.80
51	IS	13C-OCDF	200.00	2.83e+08	0.90 y	41:59	-	0.98

52	C/Up	37C1-2,3,7,8-TCDD	40.00	4.40e+07		26:32	-	0.79
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.39e+08	0.79 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.03e+08	0.78 y	24:18	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.44e+08	1.27 y	34:57	-	1.00

Filename: 060322C1 S: 7 Acquired: 22-MAR-06 14:31:06

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-6 1613 CSS 060110J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	200.00	3.53e+08	0.78 y	26:32	- 0.95
2	Unk	1,2,3,7,8-PeCDD	1000.00	1.80e+09	0.63 y	31:16	- 1.01
3	Unk	1,2,3,4,7,8-HxCDD	1000.00	1.85e+09	1.26 y	34:34	- 1.13
4	Unk	1,2,3,6,7,8-HxCDD	1000.00	1.89e+09	1.27 y	34:41	- 0.94
5	Unk	1,2,3,7,8,9-HxCDD	1000.00	1.96e+09	1.25 y	34:58	- 1.07
6	Unk	1,2,3,4,6,7,8-HpCDD	1000.00	1.56e+09	1.05 y	38:32	- 0.88
7	Unk	OCDD	2000.00	3.39e+09	0.90 y	41:52	- 1.02
8	Unk	2,3,7,8-TCDF	200.00	4.37e+08	0.78 y	25:42	- 0.92
9	Unk	1,2,3,7,8-PeCDF	1000.00	2.42e+09	1.54 y	30:02	- 0.95
10	Unk	2,3,4,7,8-PeCDF	1000.00	2.45e+09	1.55 y	30:59	- 0.97
11	Unk	1,2,3,4,7,8-HxCDF	1000.00	2.31e+09	1.26 y	33:41	- 1.08
12	Unk	1,2,3,6,7,8-HxCDF	1000.00	2.78e+09	1.23 y	33:49	- 1.09
13	Unk	2,3,4,6,7,8-HxCDF	1000.00	2.75e+09	1.24 y	34:25	- 1.14
14	Unk	1,2,3,7,8,9-HxCDF	1000.00	2.30e+09	1.24 y	35:21	- 1.07
15	Unk	1,2,3,4,6,7,8-HpCDF	1000.00	2.38e+09	1.02 y	37:06	- 1.28
16	Unk	1,2,3,4,7,8,9-HpCDF	1000.00	2.07e+09	1.02 y	39:06	- 1.27
17	Unk	OCDF	2000.00	3.87e+09	0.88 y	42:04	- 0.90
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 0.95
19	Tot	TCDD EMPC	0.00	-	- n	-	- 0.95
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.01
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.01
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	-	- 0.88
25	Tot	HpCDD EMPC	0.00	-	- n	-	- 0.88
26	Tot	Total Tetra-Furans	0.00	-	- n	-	- 0.92
27	Tot	TCDF EMPC	0.00	-	- n	-	- 0.92
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	- 0.96
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	- 0.96
30	Tot	Total Penta-Furans	0.00	-	- n	-	- 0.96
31	Tot	PeCDF EMPC	0.00	-	- n	-	- 0.96
32	Tot	Total Hexa-Furans	0.00	-	- n	-	- 1.10
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.10
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.27
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.27
36	IS	13C-2,3,7,8-TCDD	100.00	1.85e+08	0.79 y	26:31	- 1.12
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.78e+08	0.64 y	31:15	- 1.07
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.64e+08	1.27 y	34:33	- 0.84
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.02e+08	1.28 y	34:40	- 1.04

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.78e+08	1.06 y	38:31	-	0.91
41	IS	13C-OCDD	200.00	3.32e+08	0.90 y	41:51	-	0.85
42	IS	13C-2,3,7,8-TCDF	100.00	2.38e+08	0.79 y	25:41	-	0.92
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.54e+08	1.60 y	30:01	-	0.99
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.52e+08	1.61 y	30:58	-	0.98
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	2.15e+08	0.54 y	33:40	-	1.10
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.55e+08	0.52 y	33:48	-	1.31
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.41e+08	0.53 y	34:24	-	1.23
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.14e+08	0.53 y	35:20	-	1.10
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.86e+08	0.44 y	37:06	-	0.95
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.64e+08	0.45 y	39:05	-	0.84
51	IS	13C-OCDF	200.00	4.31e+08	0.89 y	42:03	-	1.10

52	C/Up	37C1-2,3,7,8-TCDD	200.00	2.64e+08		26:32	-	0.80
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.66e+08	0.80 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.57e+08	0.78 y	24:17	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.95e+08	1.25 y	34:57	-	1.00

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060322C1-1

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	10.00	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.54-0.72	y	48.4	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	50.1	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	46.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	50.2	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	98.4	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.64	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.1	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	48.2	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.4	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.9	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	47.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	48.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.7	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	96.7	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MSDate: 3/23/06

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)	
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	104	82.0 - 121.0 85.0 - 117.0 (5)	(1) See Table 8, Method 1613, for m/z specifications.
13C-1,2,3,7,8-PeCDD	M+2/M+4	0.65	0.54-0.72	y	104	62.0 - 160.0	(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	95.4	85.0 - 117.0	(3) Contract-required concentration range, as specified in Table 6, Method 1613.
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	104	85.0 - 118.0	(4) No ion abundance ratio; report concentration found.
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	97.4	72.0 - 138.0	(5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only.
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	194	96.0 - 415.0	
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	107	71.0 - 140.0 76.0 - 131.0 (5)	
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	107	76.0 - 130.0	
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	107	77.0 - 130.0	
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	97.8	76.0 - 131.0	
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	70.0 - 143.0	
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.9	73.0 - 137.0	
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	101	74.0 - 135.0	
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	100	78.0 - 129.0	
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	96.5	77.0 - 129.0	
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	198	96.0 - 415.0	Analyst: <u>vm</u>
CLEANUP STANDARD (4)							Date: <u>3/22/06</u>
37Cl-2,3,7,8-TCDD					10.1	7.9 - 12.7 8.3 - 12.1 (5)	

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060322C1-1

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
	FORMING RATIO	ABUND. RATIO	LIMITS			
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	10.00	8.00 - 12.0
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.54-0.72	y	48.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	50.1	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	46.3	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.6	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	50.2	40.0 - 60.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	98.4	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.64	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.1	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	48.2	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.4	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.9	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	47.9	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	48.3	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.7	40.0 - 60.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	96.7	80.0 - 120

Analyst: MIDate: 3/23/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

LABELLED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	104	70.0 - 130
13C-1,2,3,7,8-PeCDD	M+2/M+4	0.65	0.54-0.72	y	104	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	95.4	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	104	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	97.4	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	194	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	107	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	107	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	107	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	97.8	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.9	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	101	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	100	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	96.5	70.0 - 130
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	198	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					10.1	7.00 - 13.0

Analyst: RMDate: 3/23/06

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-5 Initial Calibration Date: 3/22/06

RT Window Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

DB-5 IS Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

DB_225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:44	1,3,6,8-TCDF (F)	20:32
1,2,8,9-TCDD (L)	27:27	1,2,8,9-TCDF (L)	27:36
1,2,4,7,9-PeCDD (F)	29:08	1,3,4,6,8-PeCDF (F)	27:31
1,2,3,8,9-PeCDD (L)	31:39	1,2,3,8,9-PeCDF (L)	31:53
1,2,4,6,7,9-HxCDD (F)	33:03	1,2,3,4,6,8-HxCDF (F)	32:31
1,2,3,7,8,9-HxCDD (L)	34:58	1,2,3,7,8,9-HxCDF (L)	35:21
1,2,3,4,6,7,9-HpCDD (F)	37:31	1,2,3,4,6,7,8-HpCDF (F)	37:07
1,2,3,4,6,7,8-HpCDD (L)	38:31	1,2,3,4,7,8,9-HpCDF (L)	39:04

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5).

=====

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: AMDate: 3/23/06

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
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
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	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-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.025	0.976-1.043
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.026	0.989-1.052
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.160	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.197	1.011-1.526
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.208	1.000-1.567

Analyst: YH

Date: 3/23/06

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

Compounds Using 13C-123789-HxCDD as Internal Standard

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	1.001	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	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.009	1.000-1.019
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	1.001	0.999-1.001
OCDF	13C-OCDF	1.006	0.999-1.008

(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-1,2,3,7,8,9-HxCDD	0.963	0.944-0.970
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.967	0.949-0.975
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.984	0.959-1.021
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDD	1.011	0.977-1.047
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.988	0.977-1.000
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.991	0.981-1.003
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.061	1.043-1.085
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,7,8,9-HxCDD	1.101	1.086-1.110
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.117	1.057-1.151
13C-OCDD	13C-1,2,3,7,8,9-HxCDD	1.195	1.032-1.311
13C-OCDF	13C-1,2,3,7,8,9-HxCDD	1.201	1.032-1.311

Analyst: AM

Date: 3/23/06

Client ID: 1613 CS3 060110H
Lab ID: ST060322C1-1

Filename: 060322C1
GC Column ID: db-5

S:1 Acq:22-MAR-06 09:32:59
ICal: 1613VG5-3-22-06 wt/vol: 1.000

ConCal: NA
EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.79e+07	0.78 y	1.08	26:33	9.9986	*	2.5	*	*	Total Tetra-Dioxins	52.364	52.641	*	*	*
1,2,3,7,8-PeCDD	7.94e+07	0.63 y	1.03	31:17	48.413	*	2.5	*	*	Total Penta-Dioxins	143.45	143.74	*	*	*
1,2,3,4,7,8-HxCDD	7.27e+07	1.23 y	1.13	34:34	50.100	*	2.5	*	*	Total Hexa-Dioxins	202.96	203.37	*	*	*
1,2,3,6,7,8-HxCDD	8.37e+07	1.27 y	1.03	34:41	46.322	*	2.5	*	*	Total Hepta-Dioxins	100.70	101.63	*	*	*
1,2,3,7,8,9-HxCDD	8.40e+07	1.24 y	1.12	34:58	49.626	*	2.5	*	*	Total Tetra-Furans	30.189	30.289	*	*	*
1,2,3,4,6,7,8-HpCDD	6.84e+07	1.03 y	1.02	38:31	50.200	*	2.5	*	*	Total Penta-Furans	181.82	182.98	*	*	*
OCDD	1.16e+08	0.90 y	1.06	41:47	98.413	*	2.5	*	*	Total Hexa-Furans	243.28	244.86	*	*	*
2,3,7,8-TCDF	2.23e+07	0.77 y	1.06	25:42	9.6429	*	2.5	*	*	Total Hepta-Furans	97.658	99.281	*	*	*
1,2,3,7,8-PeCDF	1.15e+08	1.55 y	1.01	30:03	49.145	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.15e+08	1.55 y	1.02	30:59	48.157	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	9.97e+07	1.23 y	1.15	33:41	48.028	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.27e+08	1.24 y	1.14	33:49	48.373	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.14e+08	1.24 y	1.17	34:25	47.928	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	9.32e+07	1.25 y	1.10	35:21	47.854	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	9.59e+07	1.01 y	1.31	37:07	48.348	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	7.72e+07	1.02 y	1.33	39:04	48.679	*	2.5	*	*						
OCDF	1.33e+08	0.89 y	0.91	42:00	96.741	*	2.5	*	*						
IS 13C-2,3,7,8-TCDD	1.66e+08	0.78 y	1.09	26:31	103.84					Rec	Qual				
IS 13C-1,2,3,7,8-PeCDD	1.59e+08	0.65 y	1.04	31:16	104.12					104					
IS 13C-1,2,3,4,7,8-HxCDD	1.28e+08	1.25 y	0.83	34:33	95.383					104					
IS 13C-1,2,3,6,7,8-HxCDD	1.75e+08	1.26 y	1.04	34:40	104.17					95.4					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.34e+08	1.07 y	0.85	38:30	97.436					104					
IS 13C-OCDD	2.24e+08	0.89 y	0.71	41:46	194.01					97.4					
IS 13C-2,3,7,8-TCDF	2.18e+08	0.79 y	0.96	25:41	106.62					97.0					
IS 13C-1,2,3,7,8-PeCDF	2.32e+08	1.59 y	1.02	30:02	106.81					107					
IS 13C-2,3,4,7,8-PeCDF	2.32e+08	1.61 y	1.02	30:59	106.66					107					
IS 13C-1,2,3,4,7,8-HxCDF	1.81e+08	0.52 y	1.14	33:40	97.782					107					
IS 13C-1,2,3,6,7,8-HxCDF	2.31e+08	0.54 y	1.40	33:48	101.93					97.8					
IS 13C-2,3,4,6,7,8-HxCDF	2.04e+08	0.54 y	1.26	34:24	99.872					102					
IS 13C-1,2,3,7,8,9-HxCDF	1.78e+08	0.53 y	1.08	35:20	101.23					99.9					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.51e+08	0.43 y	0.93	37:05	100.02					101					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.20e+08	0.44 y	0.77	39:04	96.454					100					
IS 13C-OCDF	3.02e+08	0.91 y	0.94	41:59	197.99					96.5					
C/Up 37C1-2,3,7,8-TCDD	1.15e+07		0.77	26:32	10.124					99.0					
RS/RT 13C-1,2,3,4-TCDD	1.47e+08	0.80 y	1.00	25:53	100.00										
RS 13C-1,2,3,4-TCDF	2.13e+08	0.78 y	1.00	24:18	100.00										
RS/RT 13C-1,2,3,7,8,9-HxCDD	1.62e+08	1.27 y	1.00	34:58	100.00										

Integrations Reviewed
by _____ by _____
Analyst: MJ Analyst: _____
Date: 3/23/06 Date: _____

Run: 060322C1

Analyte:

Cal: 1613VG5-3-22-06

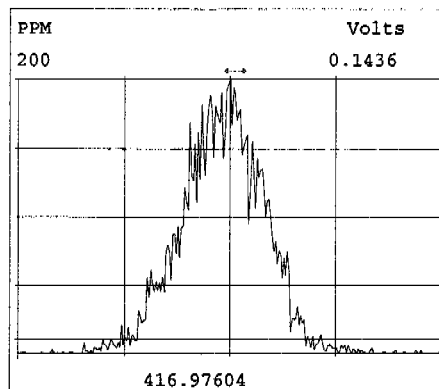
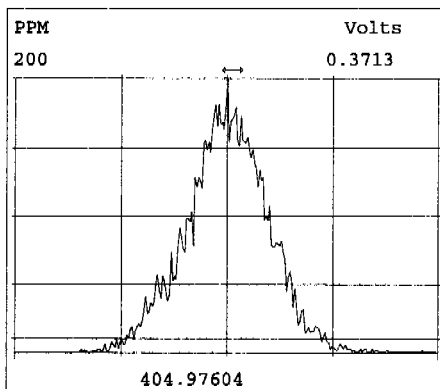
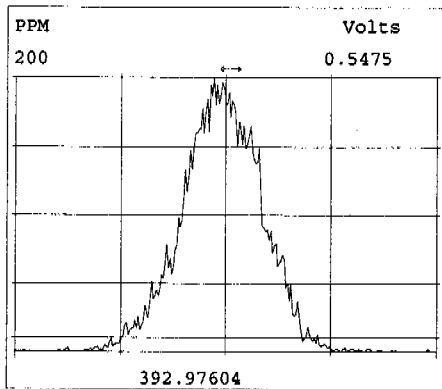
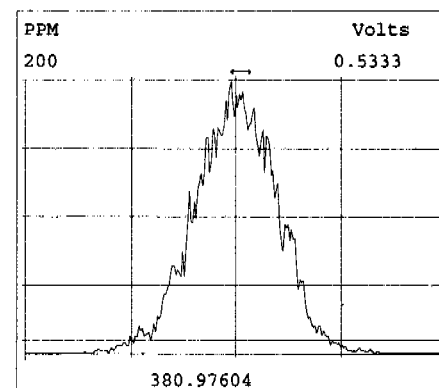
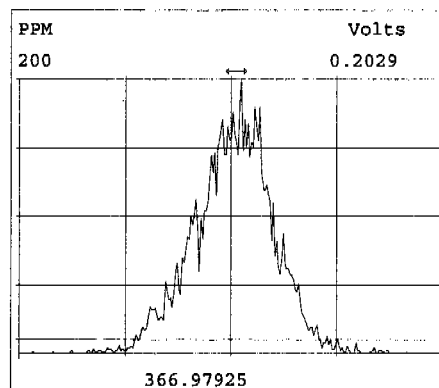
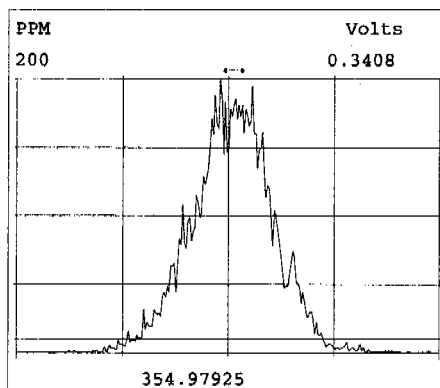
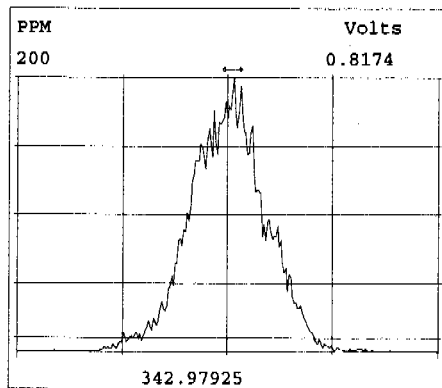
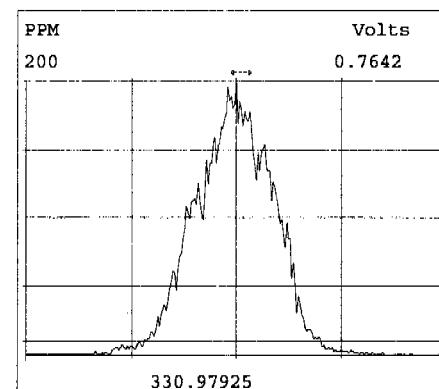
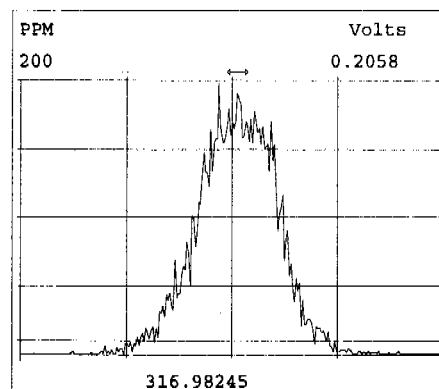
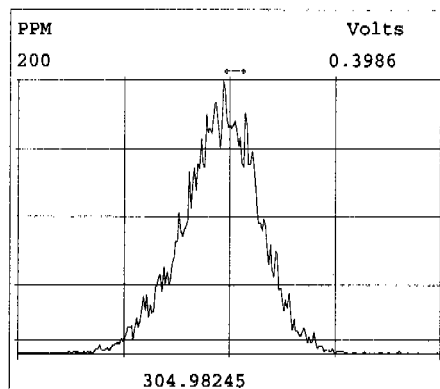
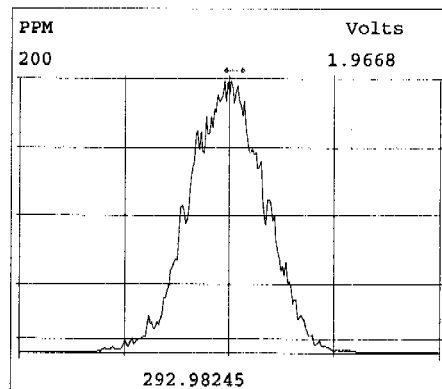
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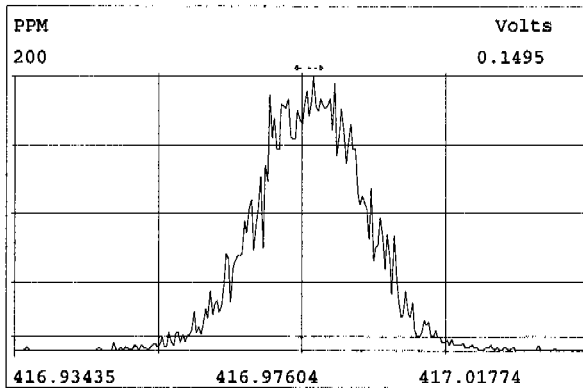
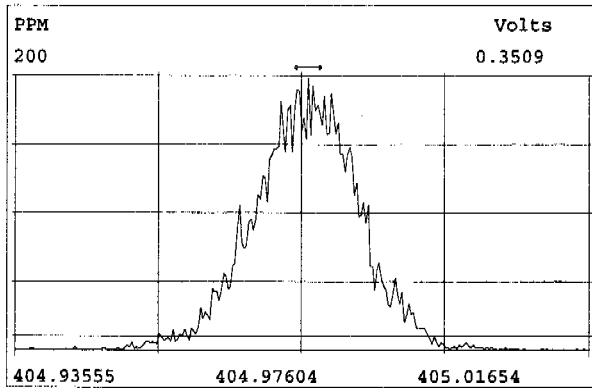
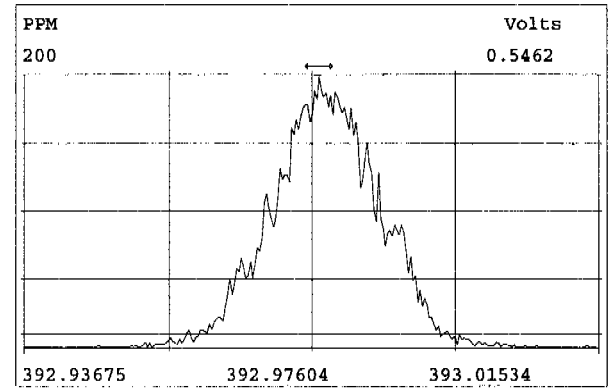
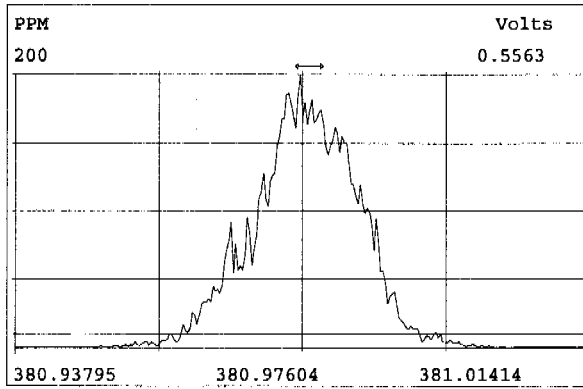
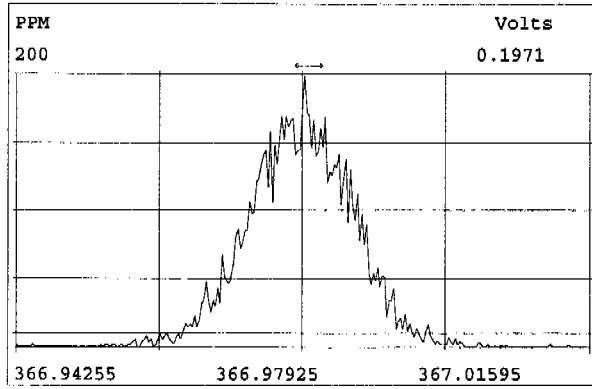
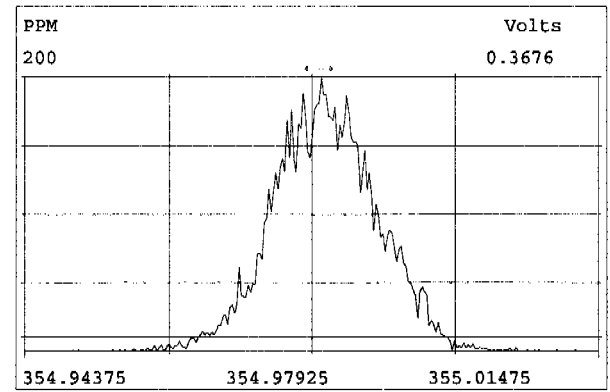
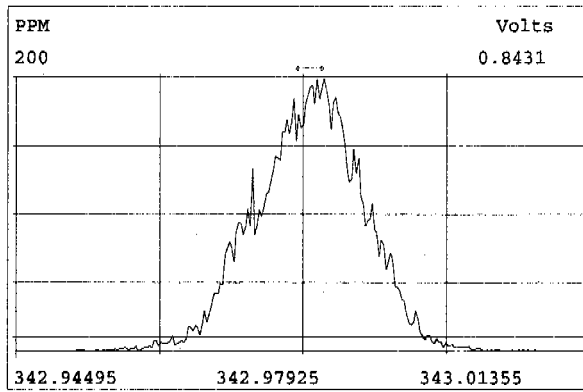
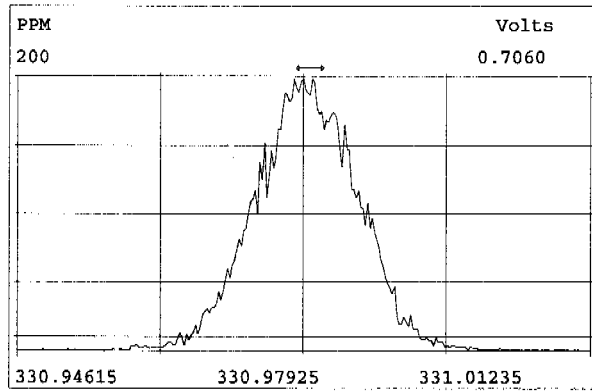
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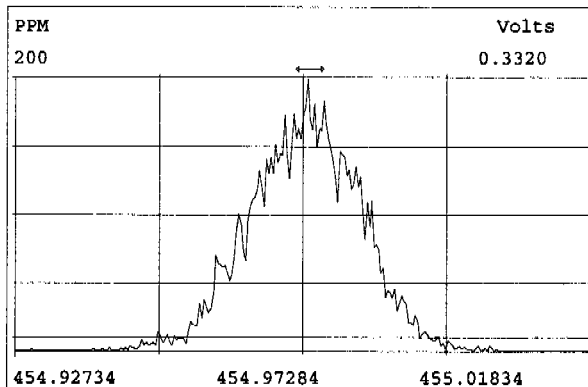
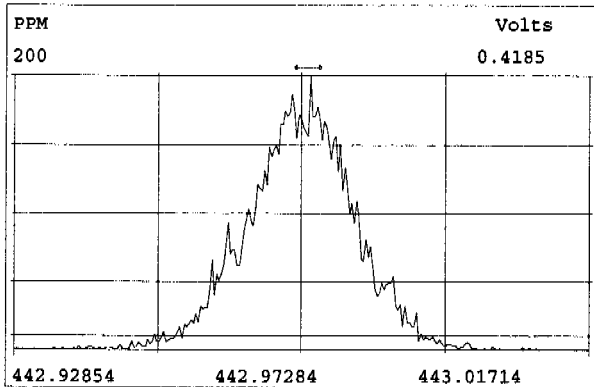
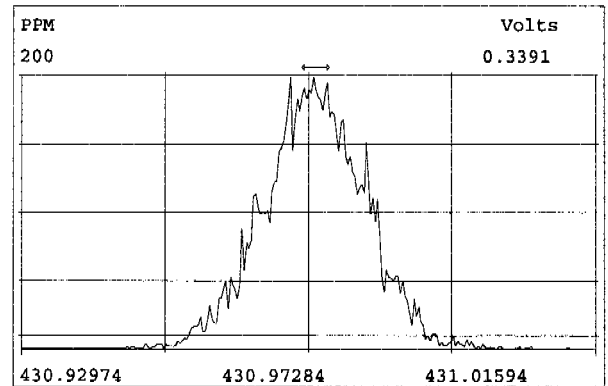
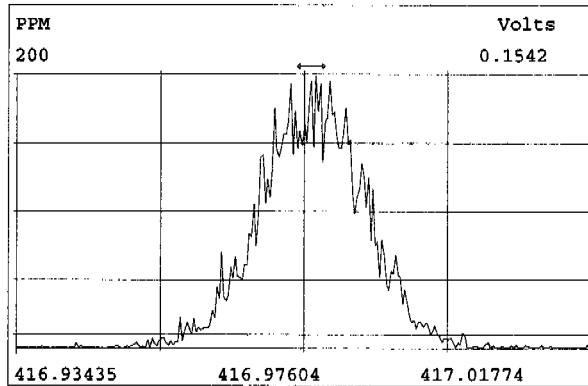
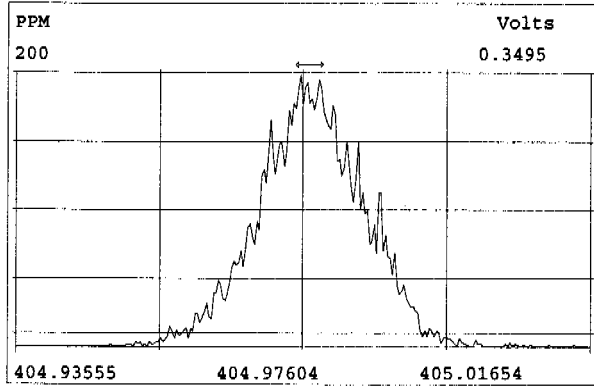
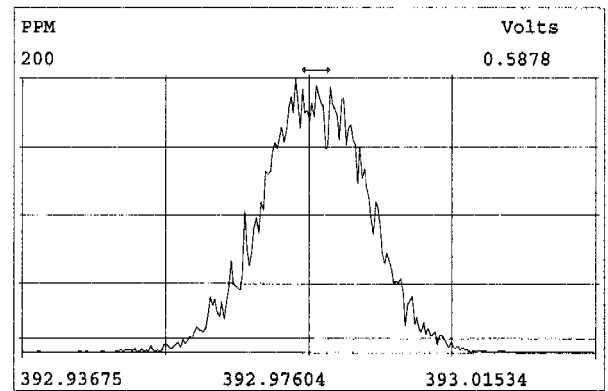
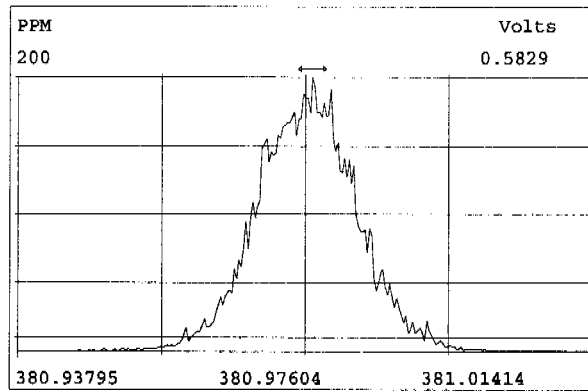
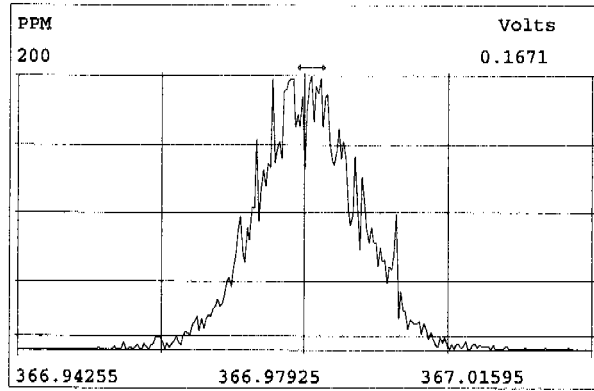
Name	RRT Limits		Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
	Lower	Upper	10	0.25	0.50	2.0	40	200
2,3,7,8-TCDD	0.999	-1.002	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999	-1.002	1.000	1.000	1.000	1.000	1.001	1.000
1,2,3,4,7,8-HxCDD	0.999	-1.001	1.000	1.001	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998	-1.004	1.000	1.000	1.001	1.000	1.000	1.000
1,2,3,7,8,9-HxCDD	1.000	-1.019	1.009	1.009	1.009	1.009	1.009	1.009
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	1.001	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	1.000	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	1.001	1.000	1.000	1.001	1.001	1.000
1,2,3,6,7,8-HxCDF	0.997	-1.005	1.000	1.000	1.000	1.000	1.001	1.001
2,3,4,6,7,8-HxCDF	0.999	-1.001	1.001	1.000	1.000	1.000	1.000	1.000
1,2,3,7,8,9-HxCDF	0.999	-1.001	1.000	1.000	1.001	1.000	1.001	1.000
1,2,3,4,6,7,8-HpCDF	0.999	-1.001	1.001	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999	-1.008	1.006	1.005	1.005	1.005	1.005	1.005
13C-2,3,7,8-TCDD	0.976	-1.043	1.025	1.025	1.024	1.025	1.024	1.024
13C-1,2,3,7,8-PeCDD	1.000	-1.567	1.208	1.208	1.207	1.207	1.207	1.208
13C-1,2,3,4,7,8-HxCDD	0.977	-1.000	0.988	0.988	0.988	0.988	0.988	0.988
13C-1,2,3,6,7,8-HxCDD	0.981	-1.003	0.991	0.992	0.991	0.992	0.992	0.992
13C-1,2,3,4,6,7,8-HpCDD	1.086	-1.110	1.101	1.102	1.102	1.102	1.102	1.102
13C-OCDD	1.032	-1.311	1.195	1.195	1.195	1.197	1.195	1.197
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	1.160	1.160	1.159	1.160	1.159	1.160
13C-2,3,4,7,8-PeCDF	1.011	-1.526	1.197	1.196	1.196	1.196	1.196	1.197
13C-1,2,3,4,7,8-HxCDF	0.944	-0.970	0.963	0.963	0.963	0.963	0.963	0.963
13C-1,2,3,6,7,8-HxCDF	0.949	-0.975	0.967	0.967	0.967	0.967	0.967	0.967
13C-2,3,4,6,7,8-HxCDF	0.959	-1.021	0.984	0.984	0.984	0.984	0.984	0.984
13C-1,2,3,7,8,9-HxCDF	0.977	-1.047	1.011	1.011	1.010	1.011	1.011	1.011
13C-1,2,3,4,6,7,8-HpCDF	1.043	-1.085	1.061	1.061	1.061	1.062	1.061	1.061
13C-1,2,3,4,7,8,9-HpCDF	1.057	-1.151	1.117	1.117	1.117	1.117	1.117	1.118
13C-OCDF	1.032	-1.311	1.201	1.201	1.201	1.203	1.201	1.203
37C1-2,3,7,8-TCDD	0.989	-1.052	1.026	1.025	1.025	1.025	1.025	1.026
13C-1,2,3,4-TCDD	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.923	-1.103	*	*	*	*	*	*
13C-1,2,3,7,8,9-HxCDD	0.000	-0.000	*	*	*	*	*	*

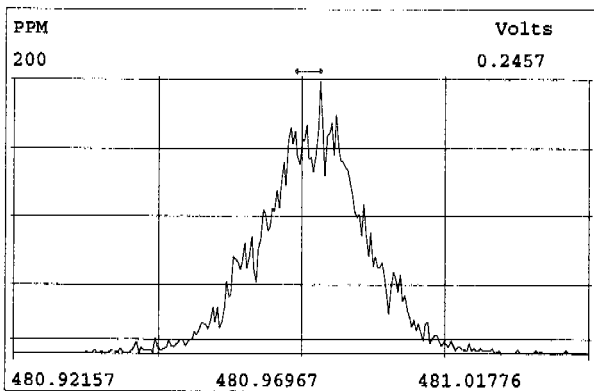
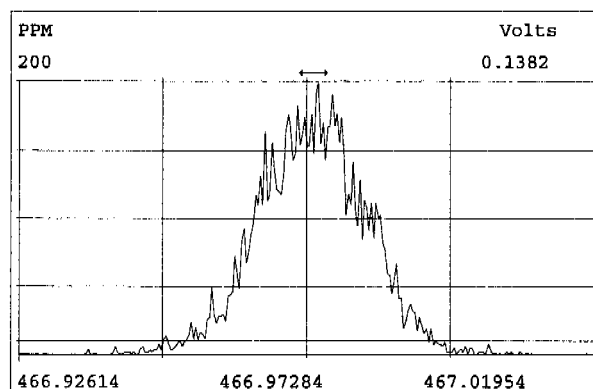
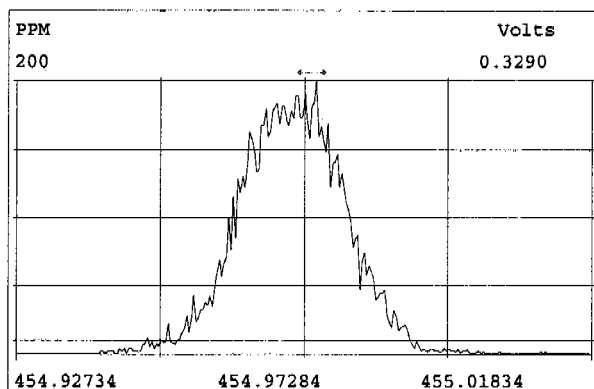
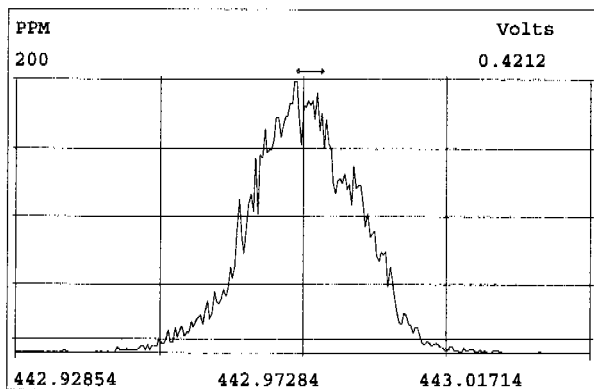
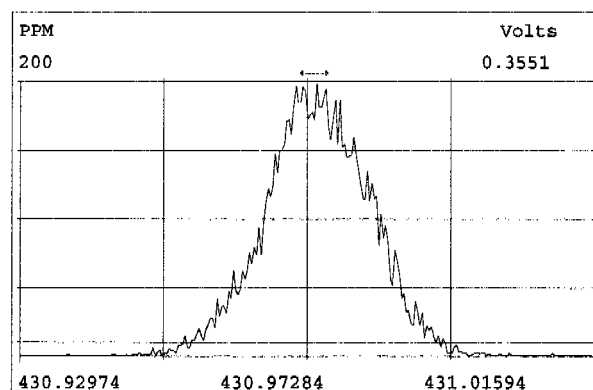
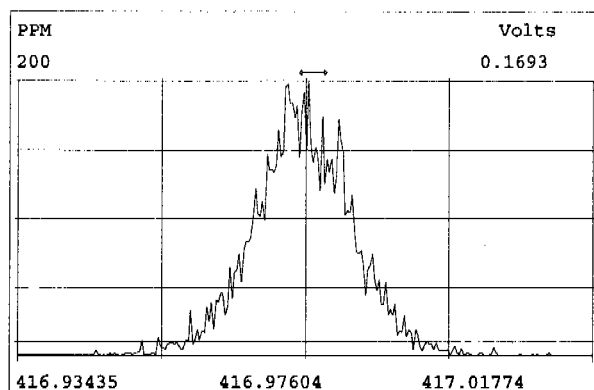
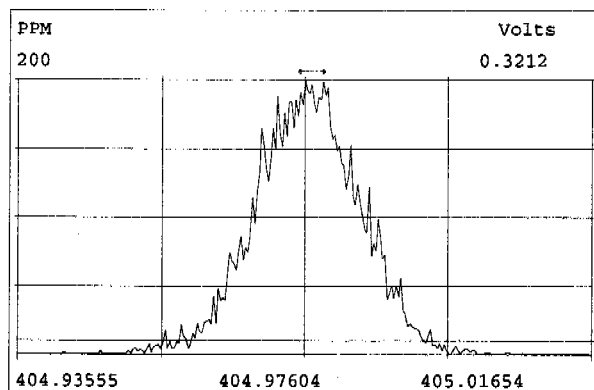
Alta Analytical Laboratory - Injection Log Run file: 060322C1 Instrument ID: VG-5 GC Column ID: db-5

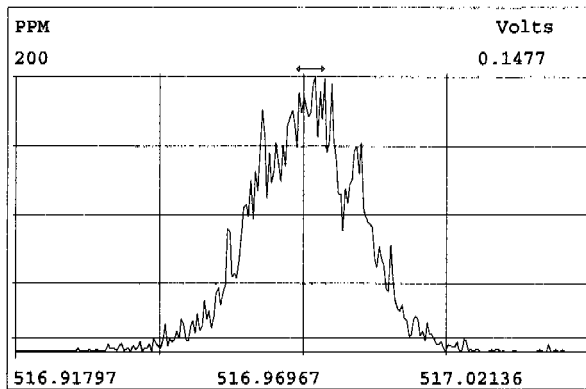
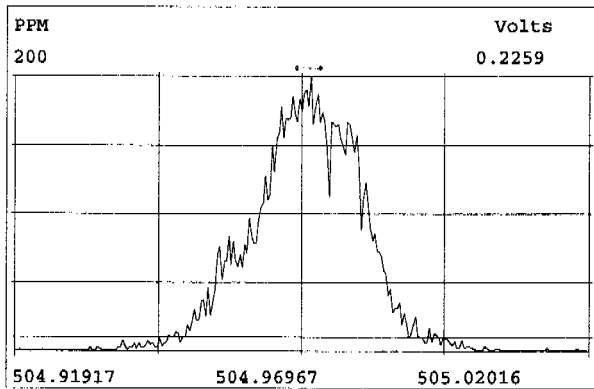
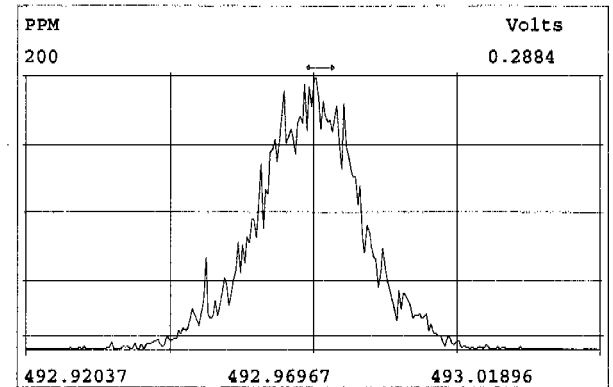
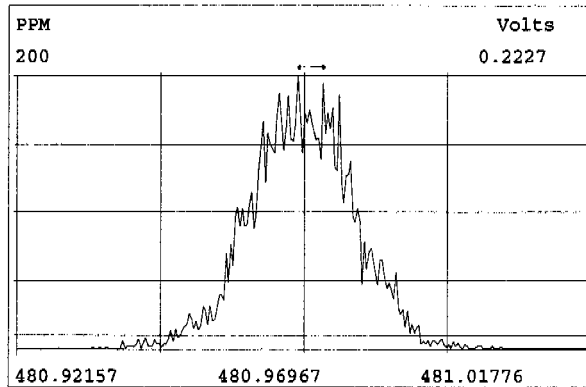
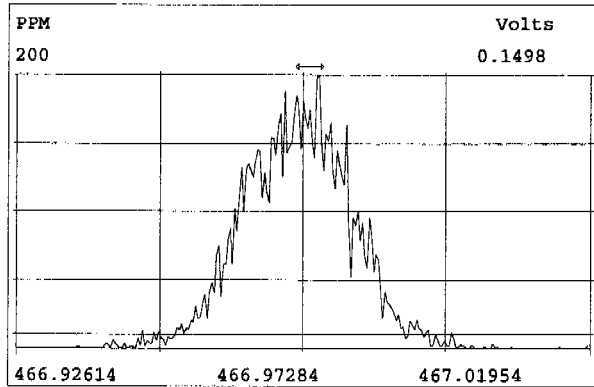
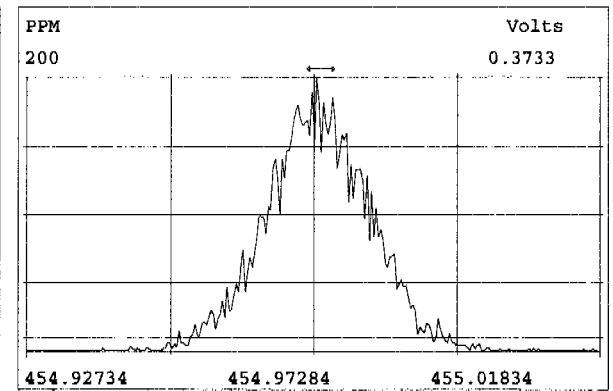
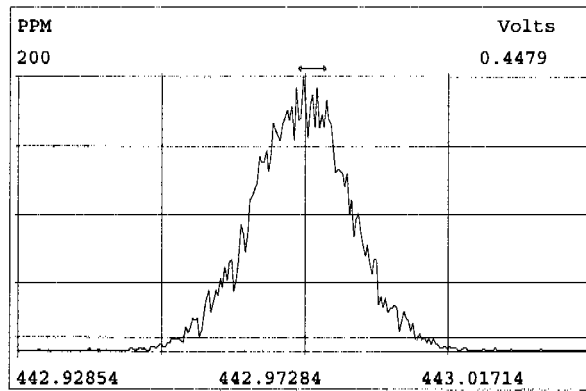
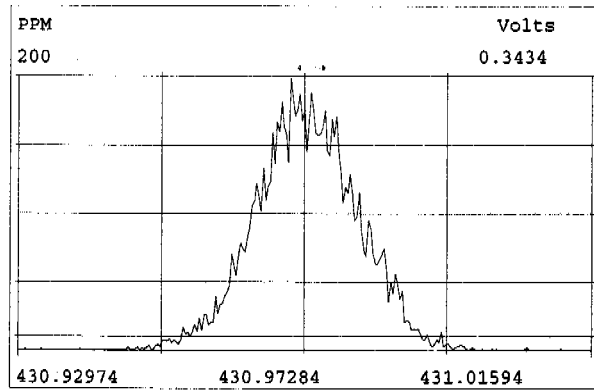
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
060322C1	1	ST060322C1-1	MAS	22-MAR-06	09:32:59	NA	NA
060322C1	2	SOLVENT BLANK	MAS	22-MAR-06	10:22:37	NA	NA
060322C1	3	ST060322C1-2	MAS	22-MAR-06	11:12:17	NA	NA
060322C1	4	ST060322C1-3	MAS	22-MAR-06	12:02:01	NA	NA
060322C1	5	ST060322C1-4	MAS	22-MAR-06	12:51:46	NA	NA
060322C1	6	ST060322C1-5	MAS	22-MAR-06	13:41:25	NA	NA
060322C1	7	ST060322C1-6	MAS	22-MAR-06	14:31:06	NA	NA
060322C1	8	SOLVENT BLANK	MAS	22-MAR-06	15:20:45	NA	NA
060322C1	9	SS060322C1-1	MAS	22-MAR-06	16:10:24	NA	NA



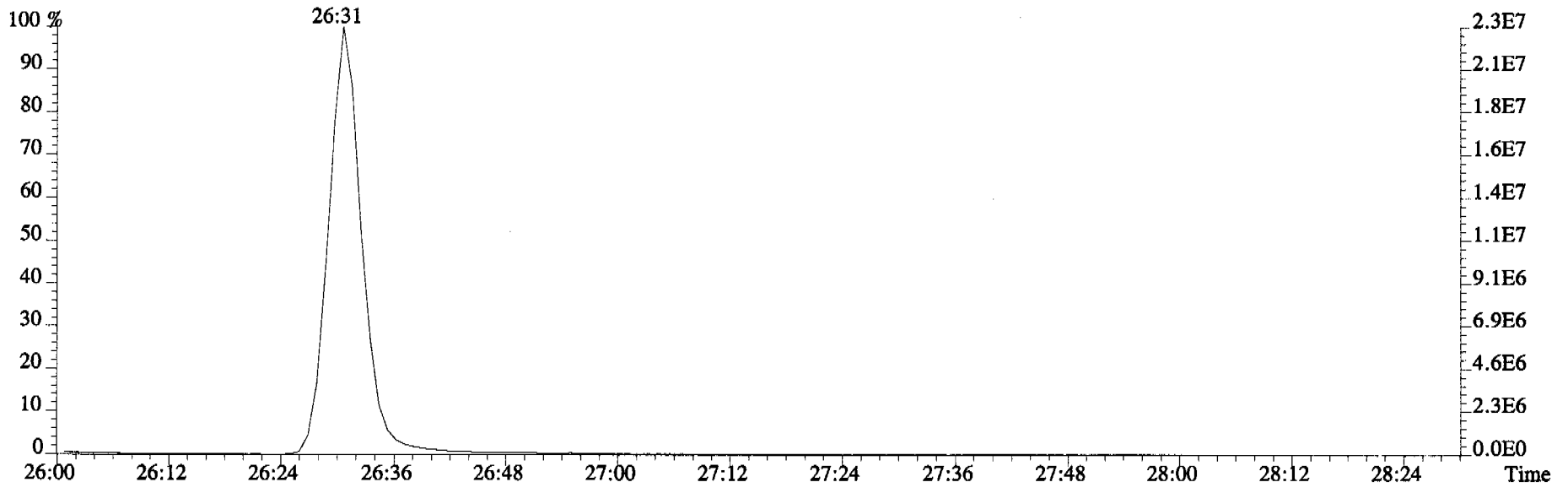
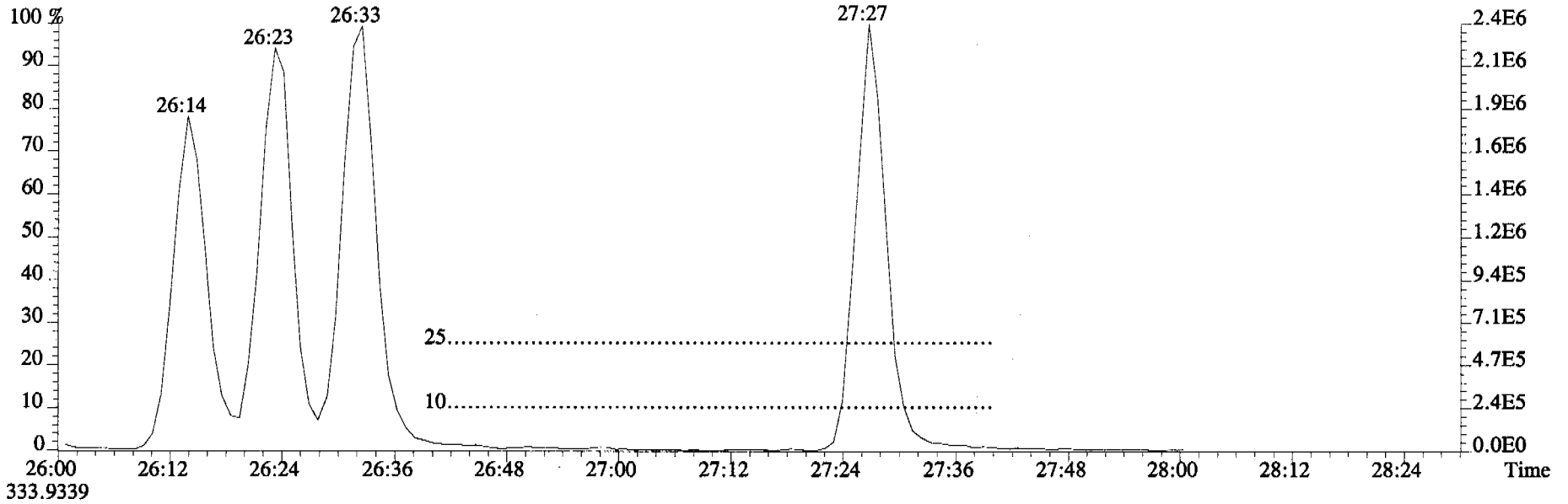




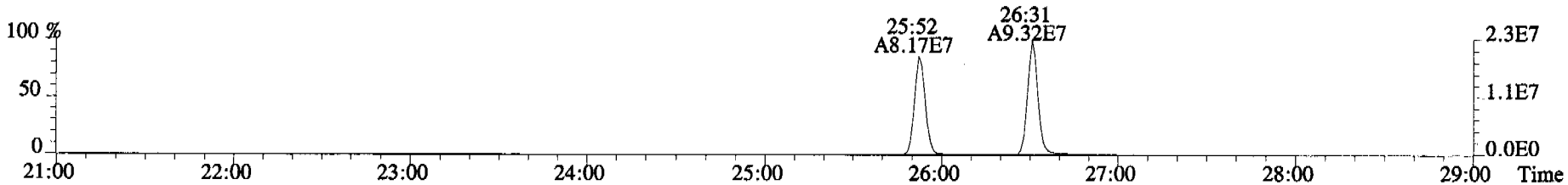
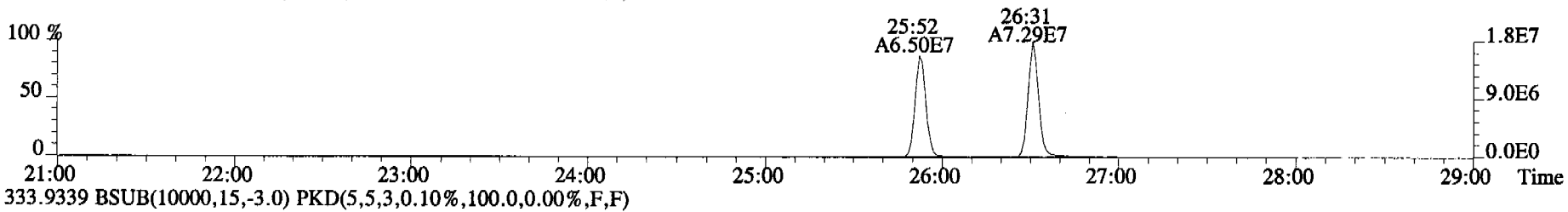
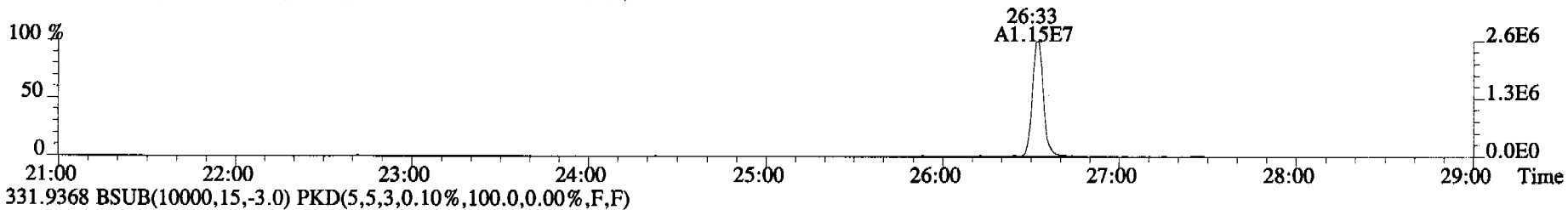
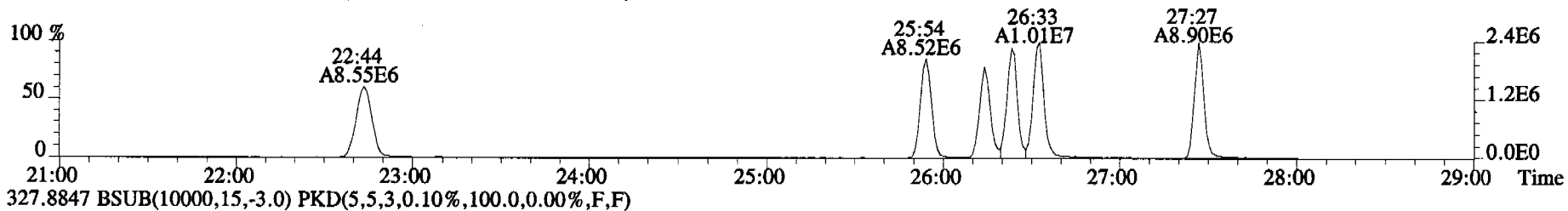
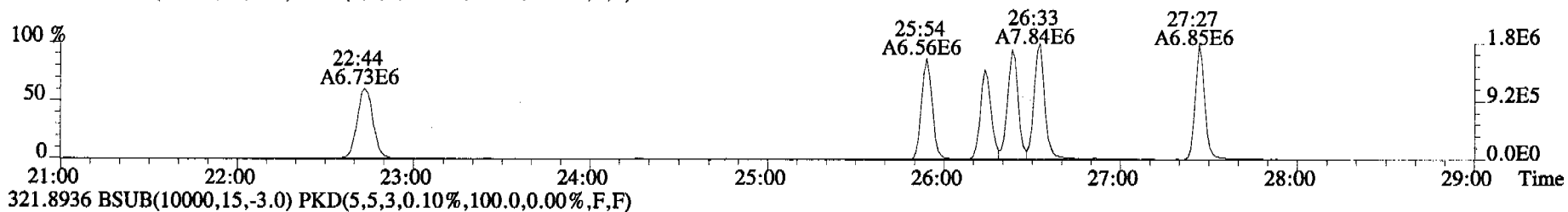




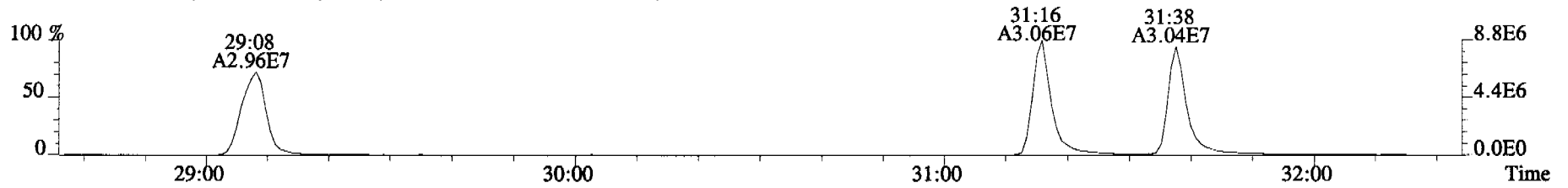
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
321.8936



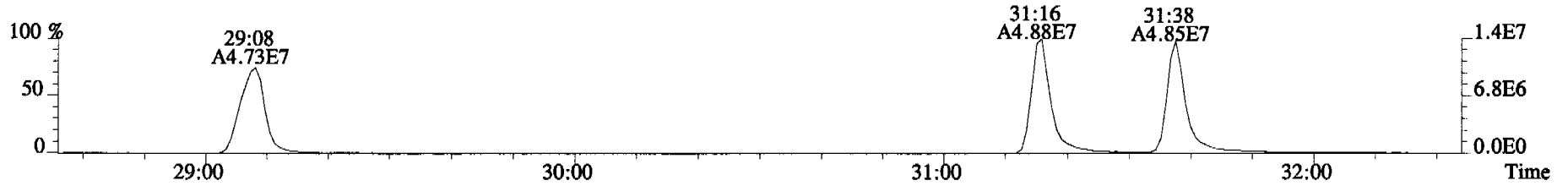
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



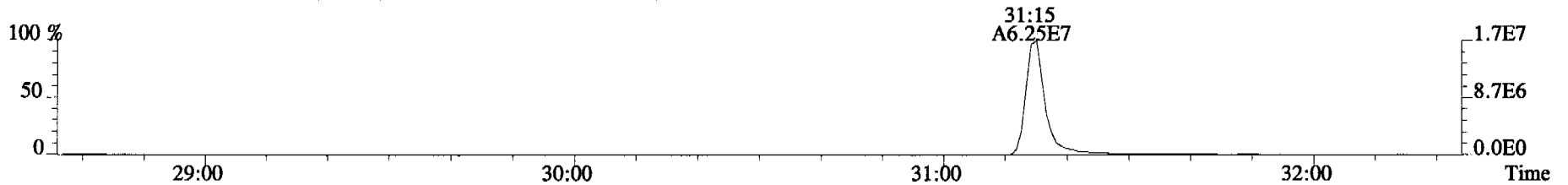
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



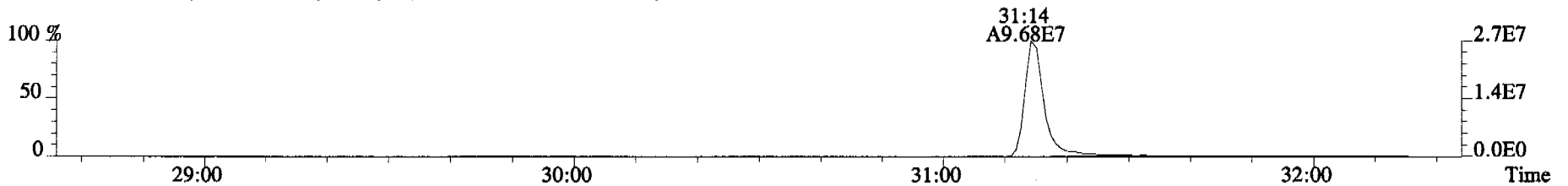
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



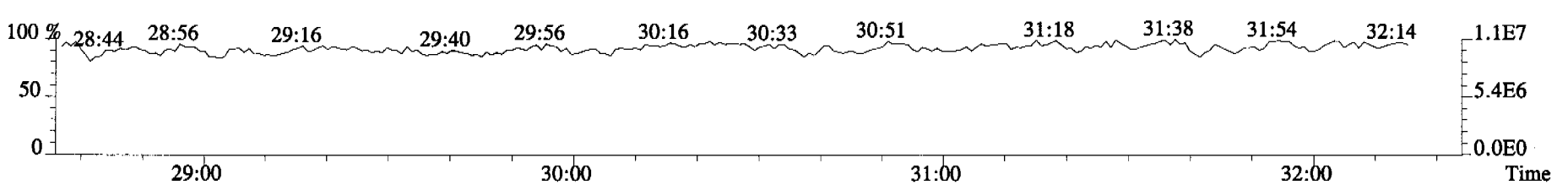
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



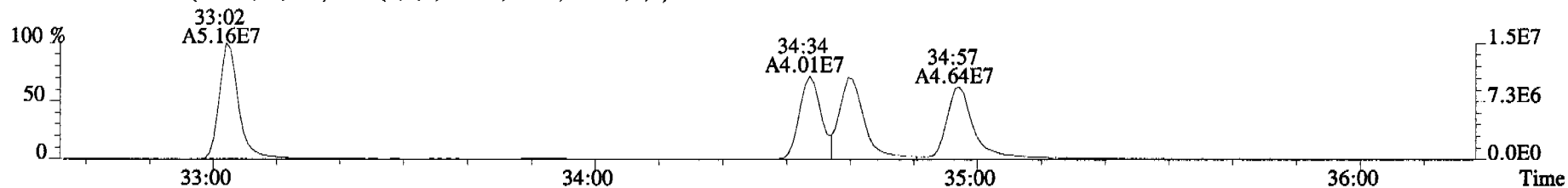
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



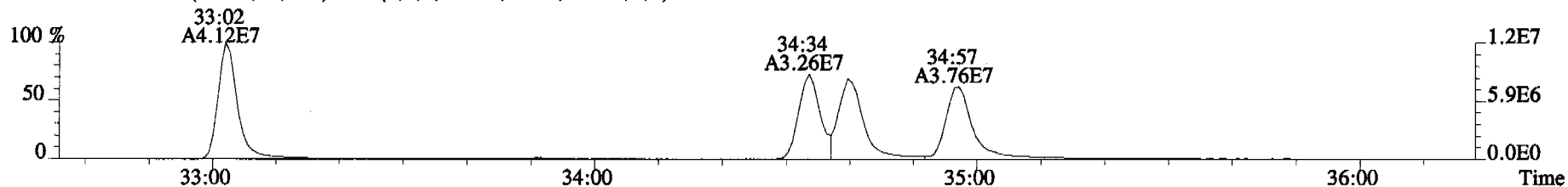
366.9792 F:2



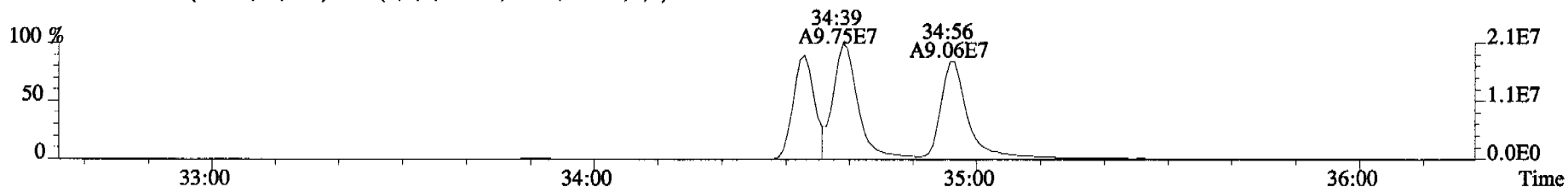
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



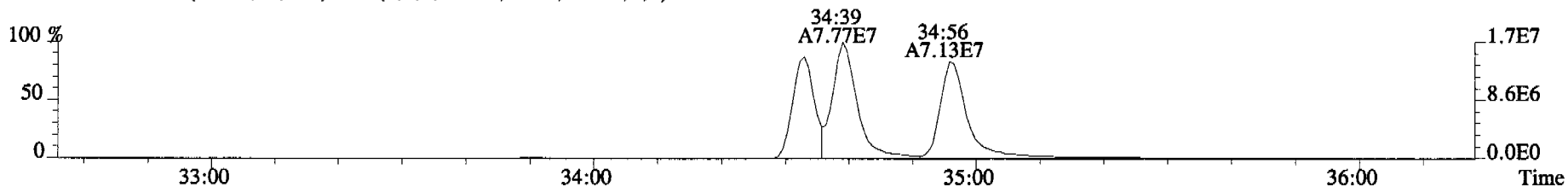
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



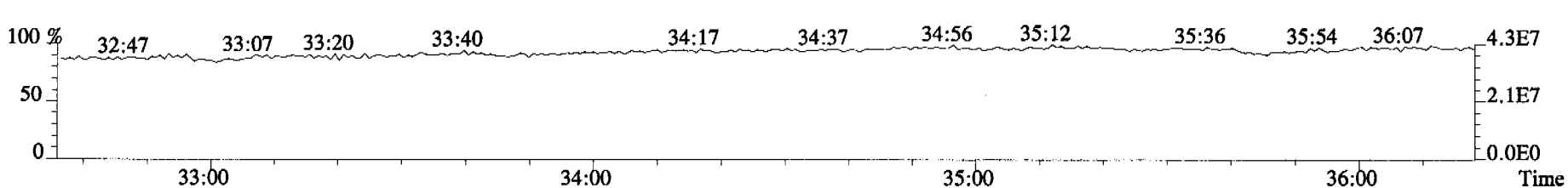
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



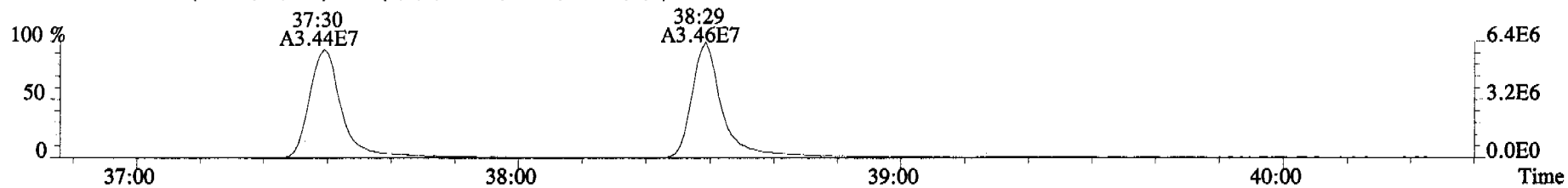
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



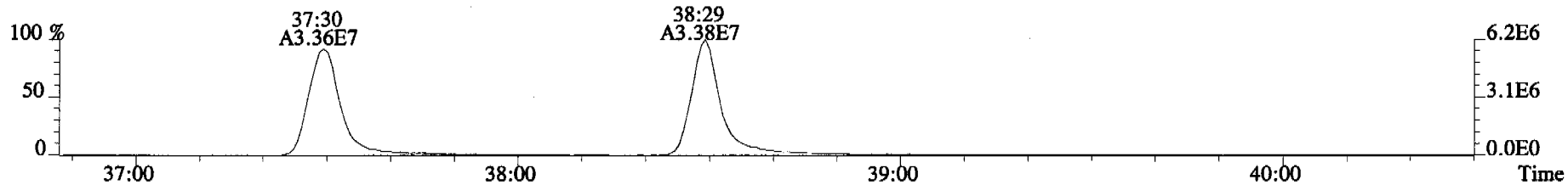
380.9760 F:3



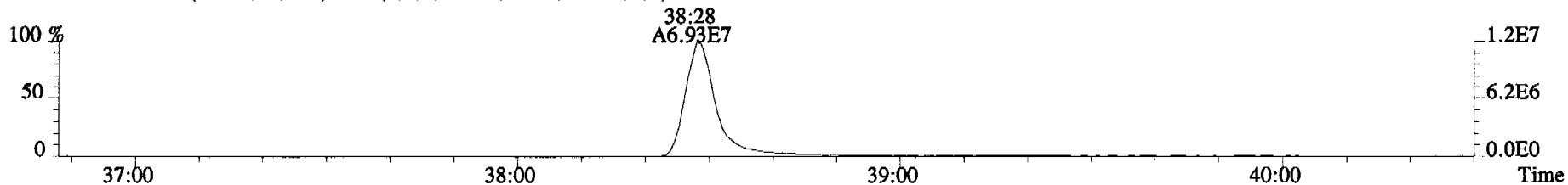
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



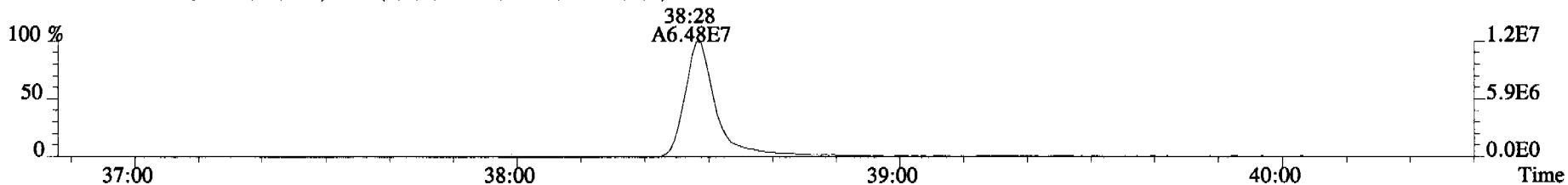
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



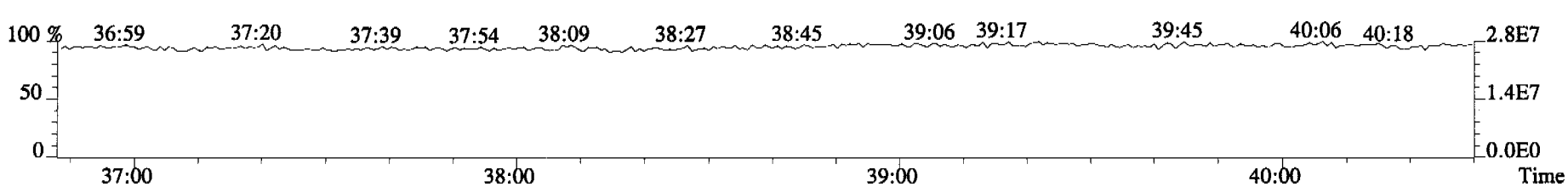
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



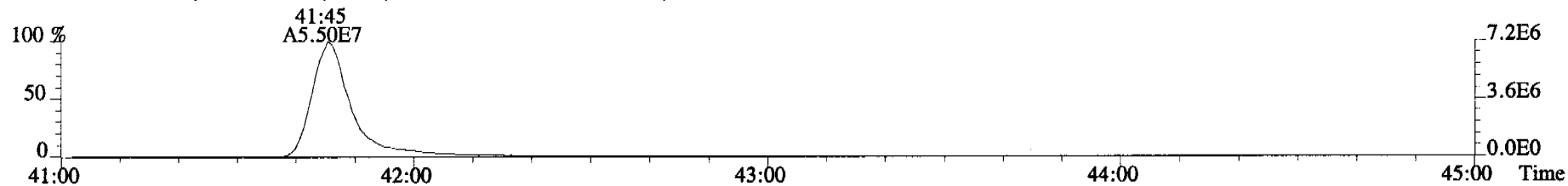
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



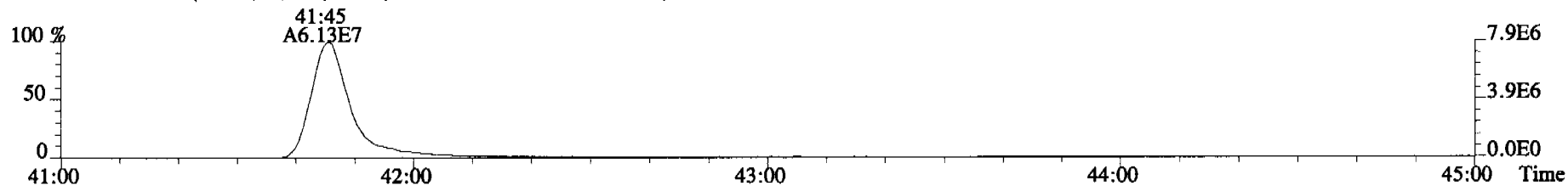
430.9728 F:4



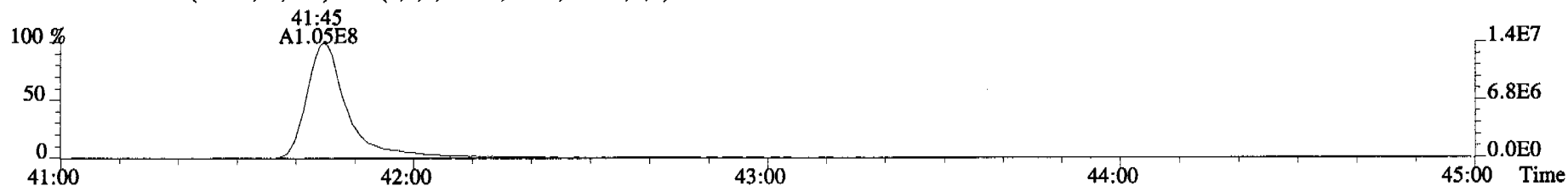
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



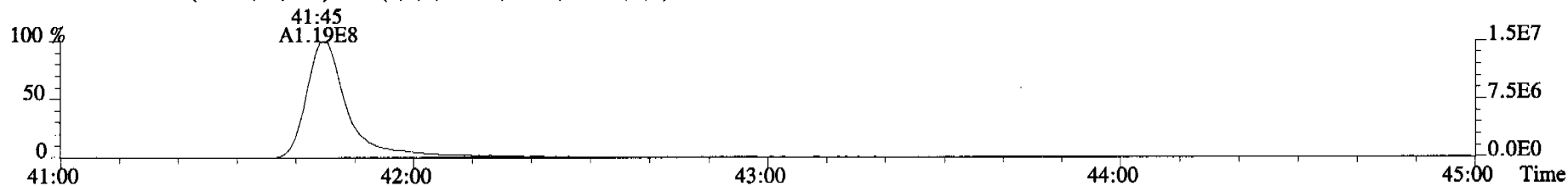
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



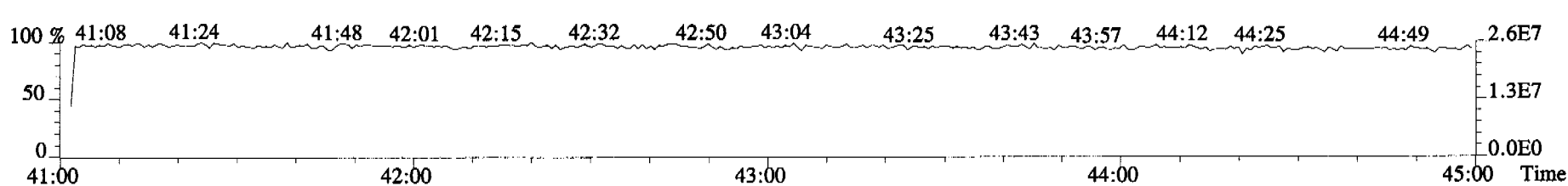
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



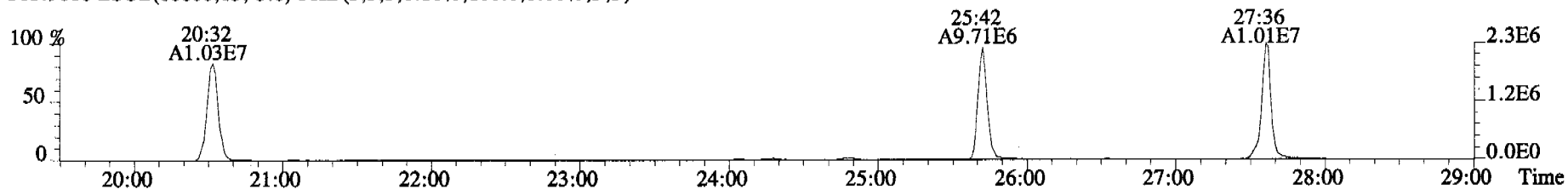
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



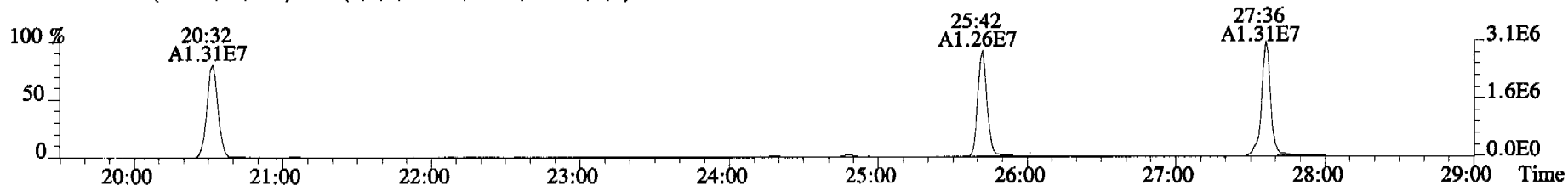
454.9728 F:5



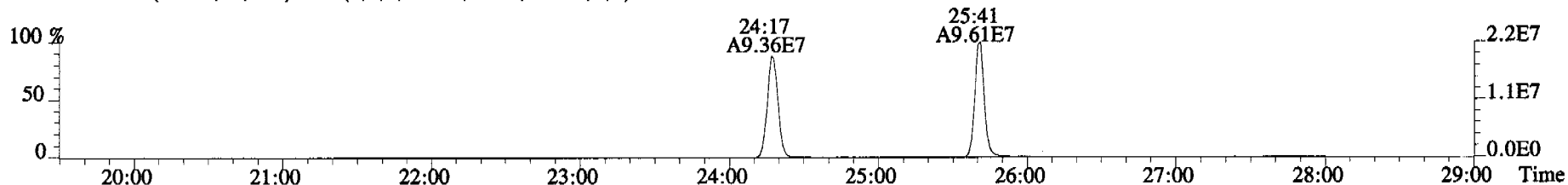
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



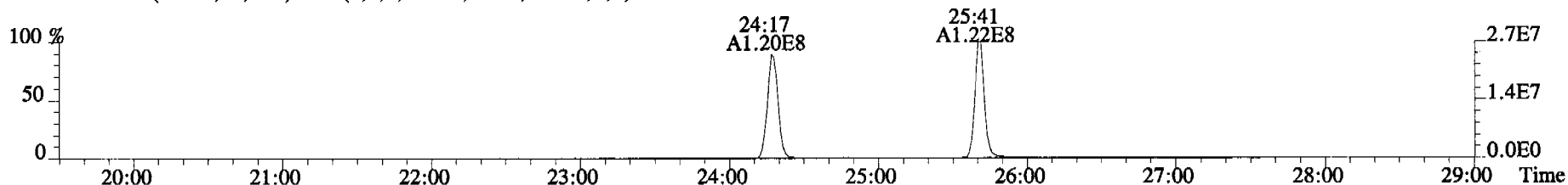
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



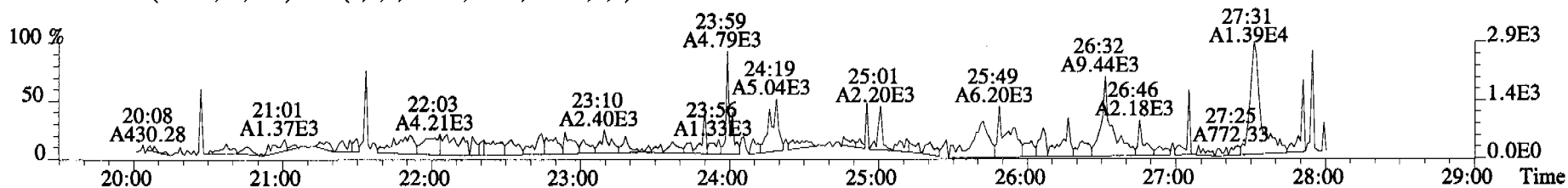
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



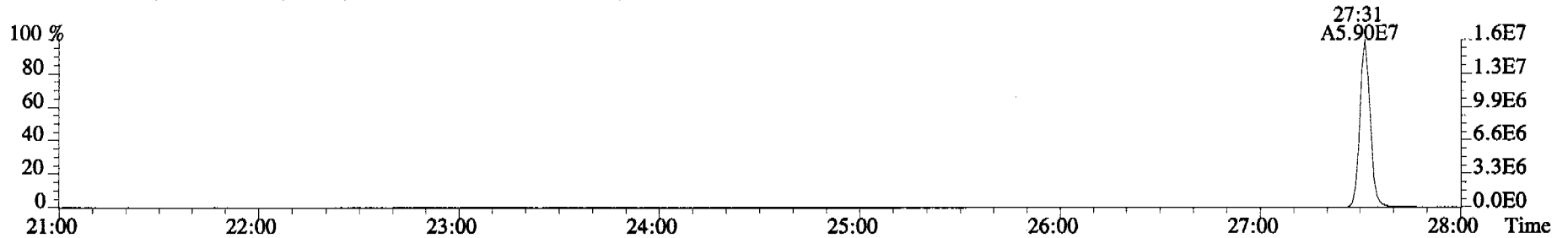
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



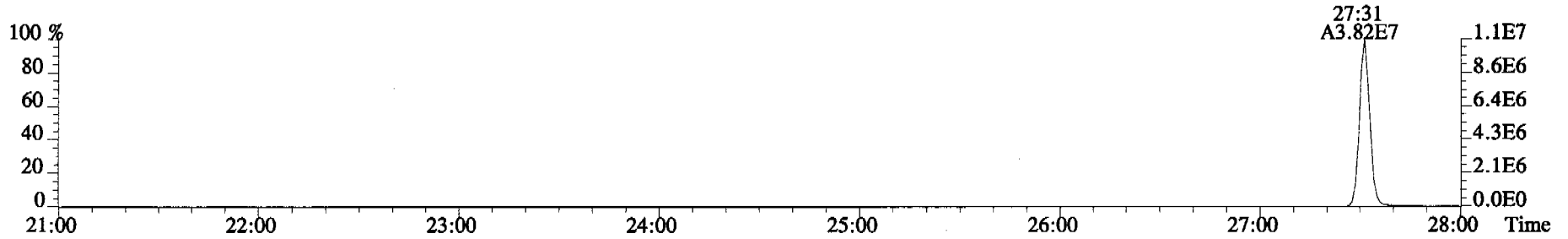
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



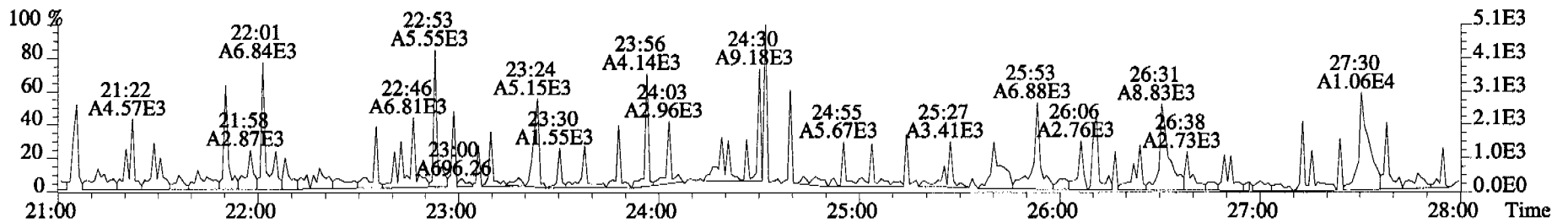
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



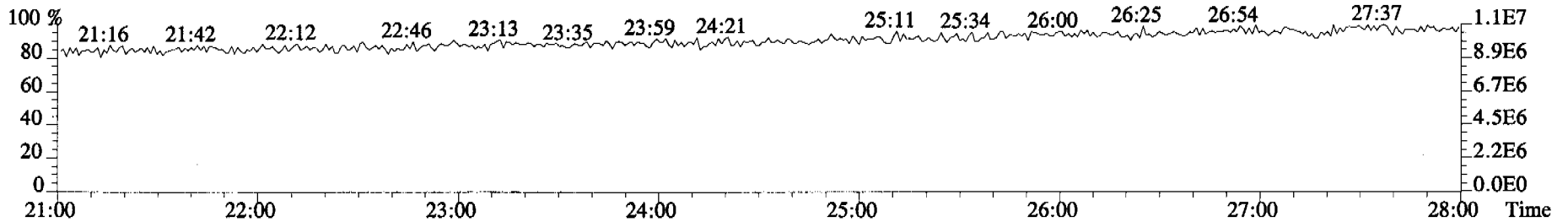
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



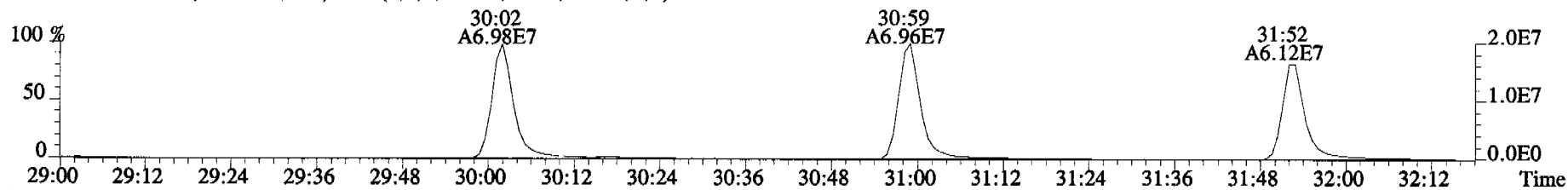
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



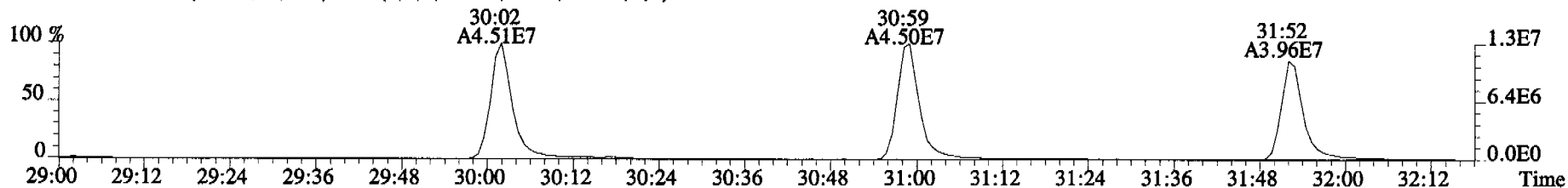
316.9824



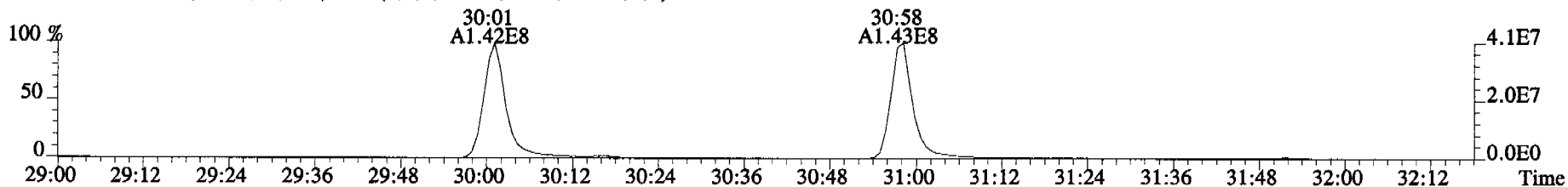
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



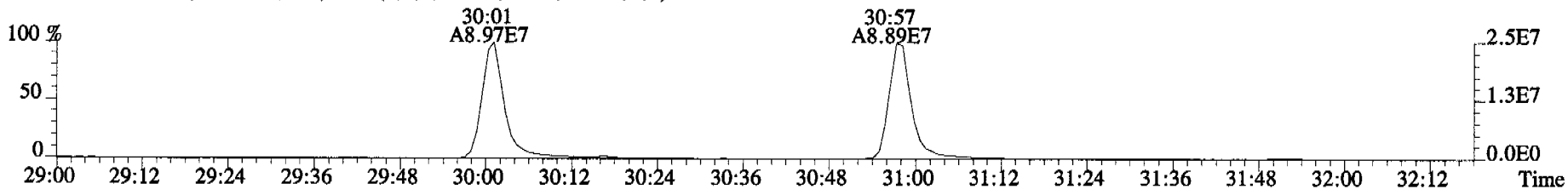
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



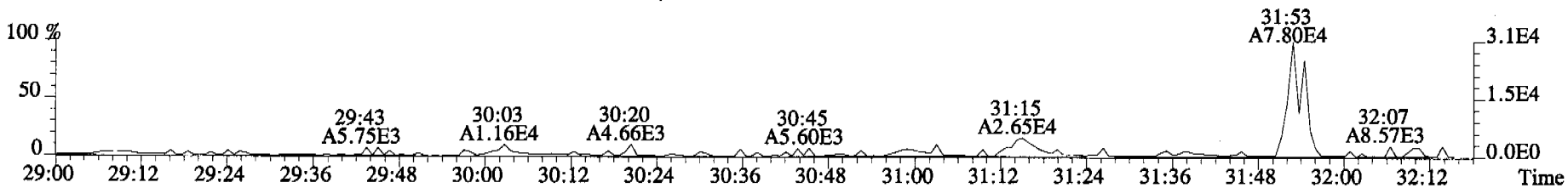
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



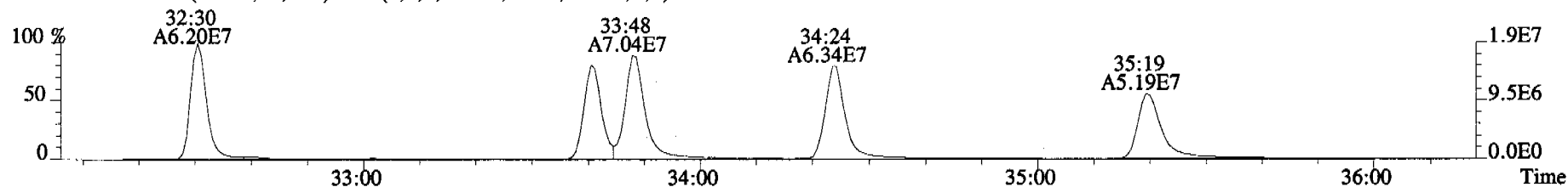
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



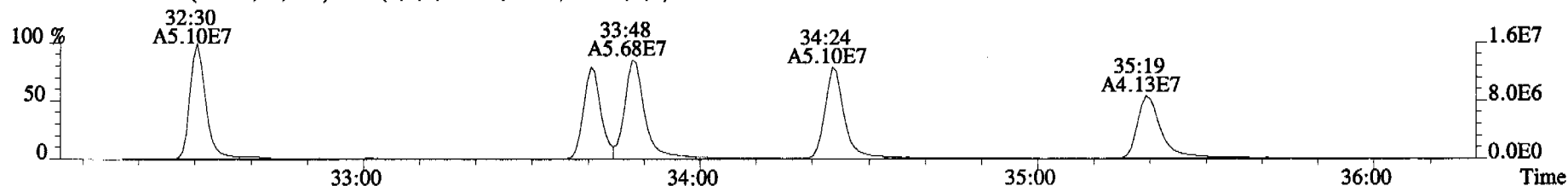
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



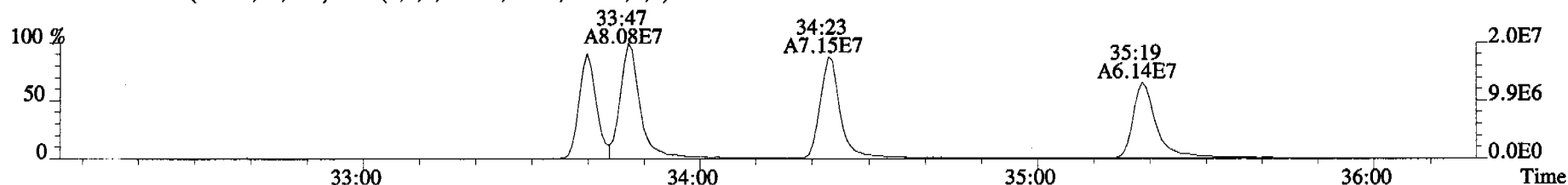
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



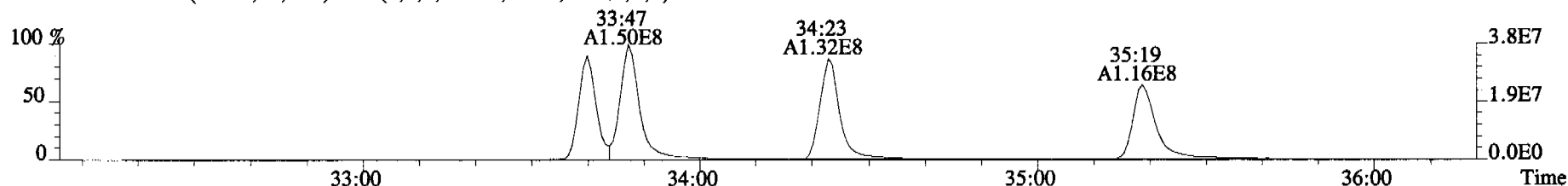
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



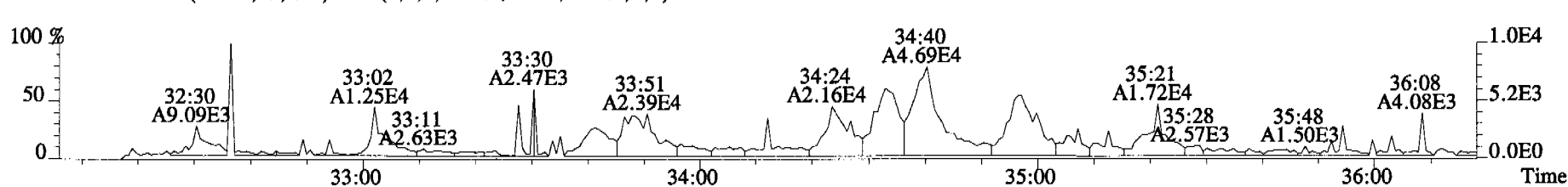
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



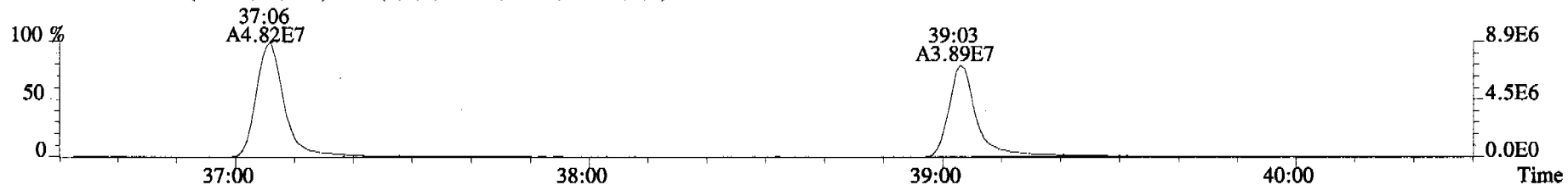
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



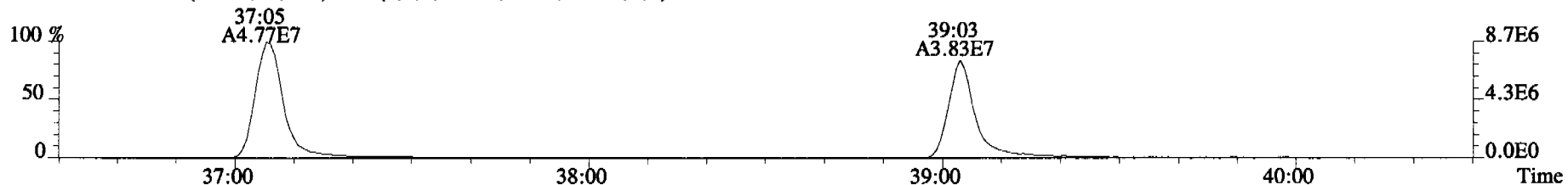
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



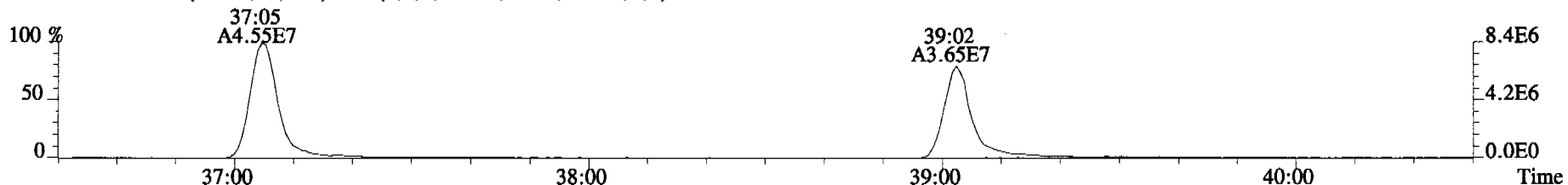
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



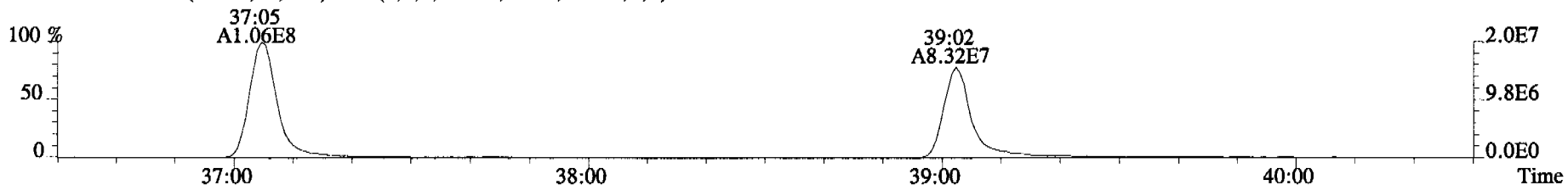
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



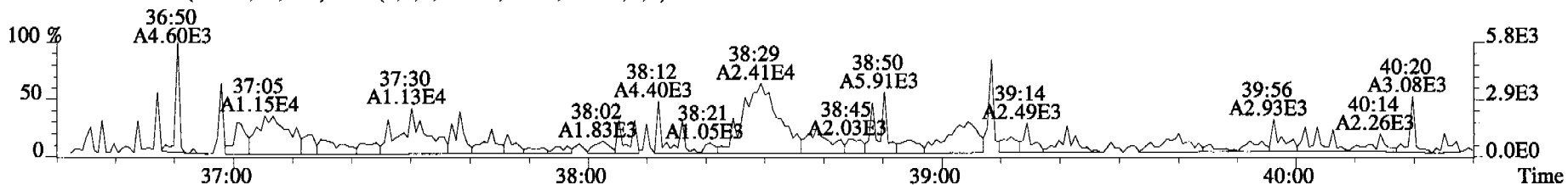
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



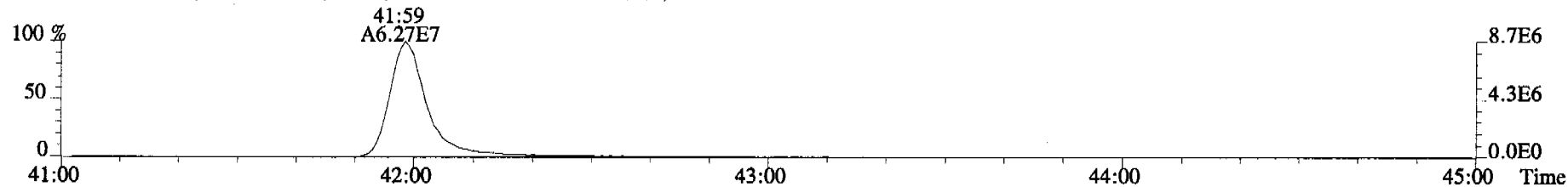
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



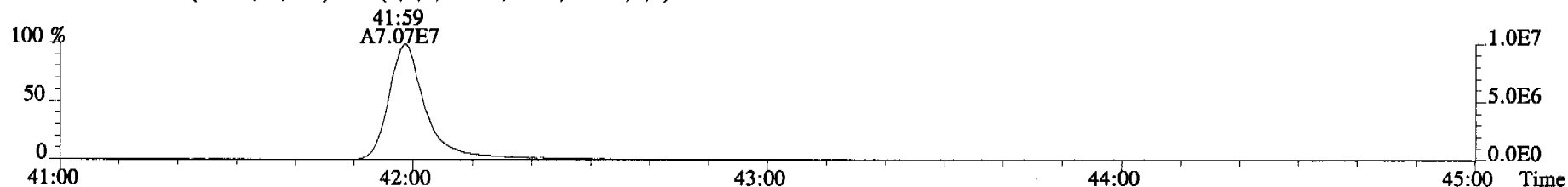
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



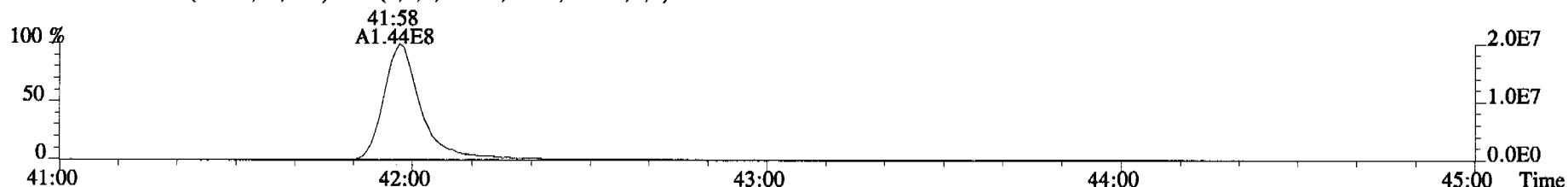
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



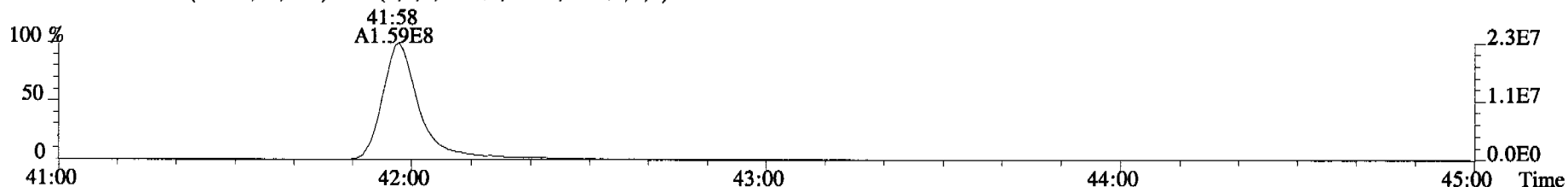
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



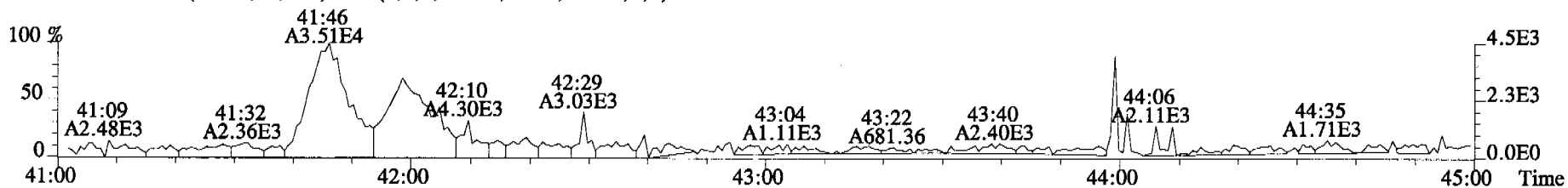
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



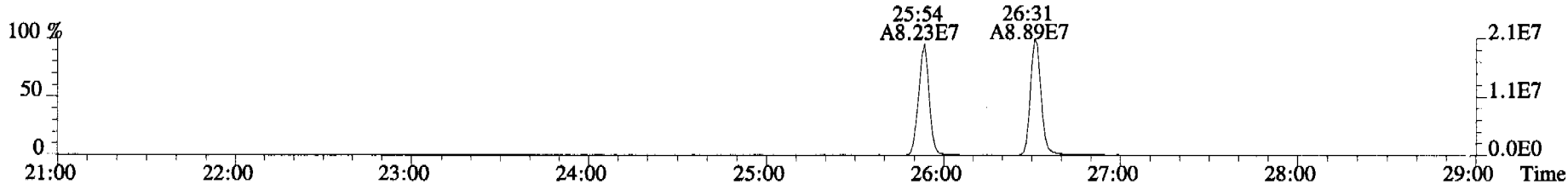
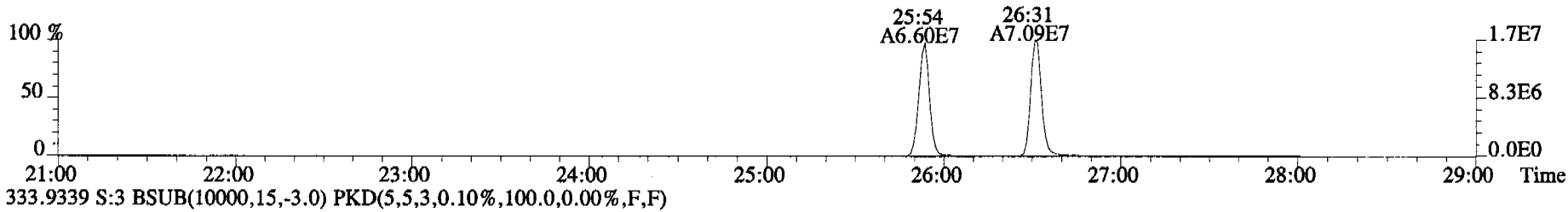
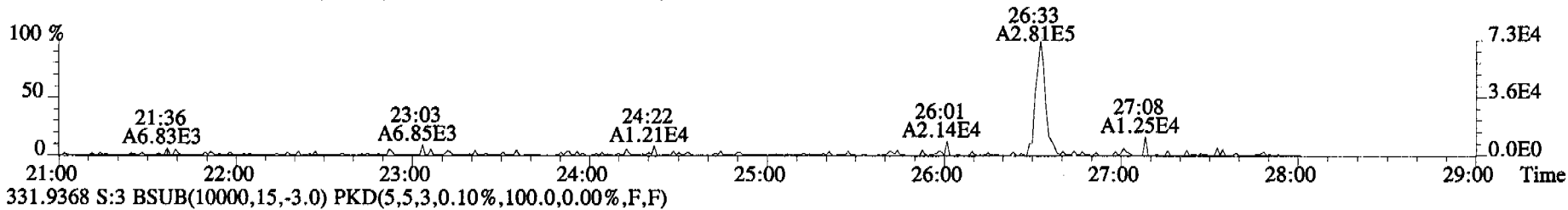
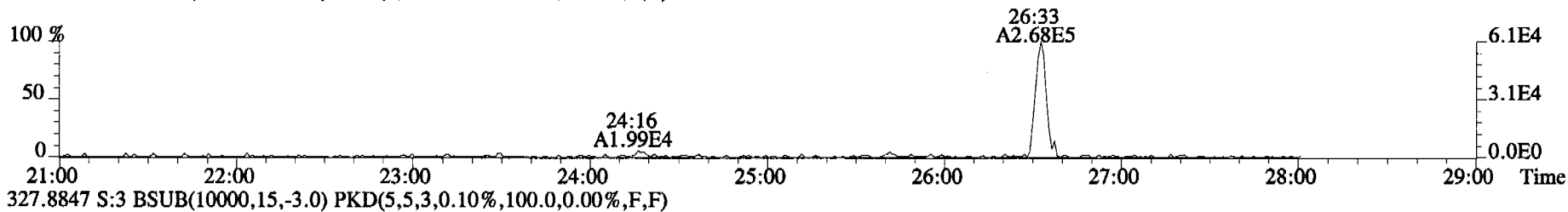
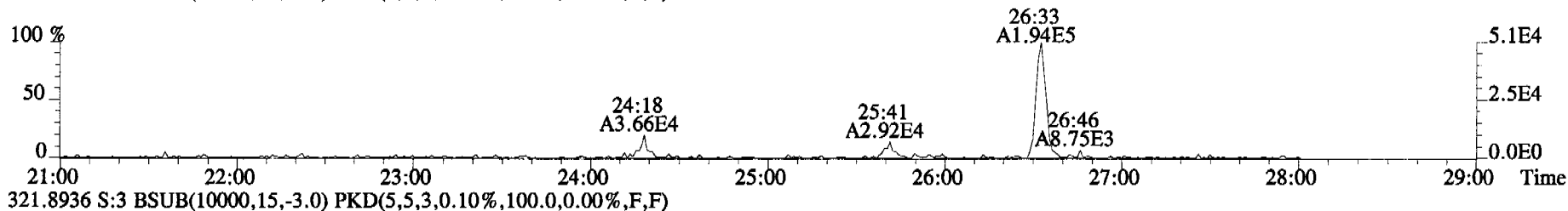
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



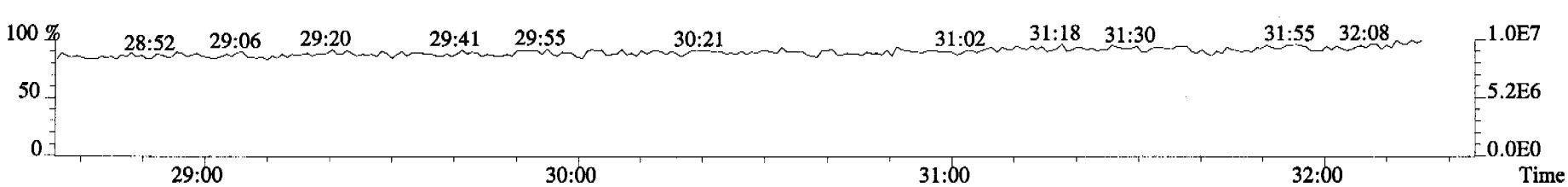
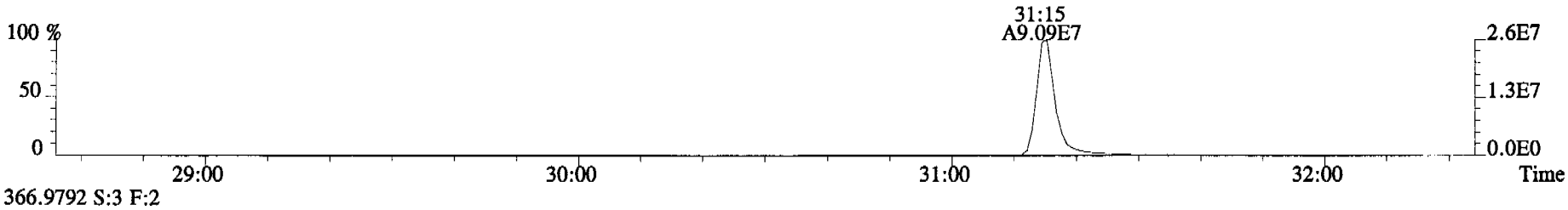
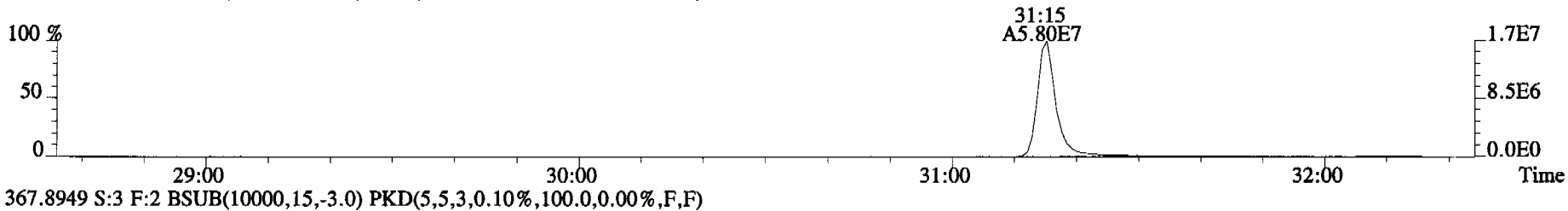
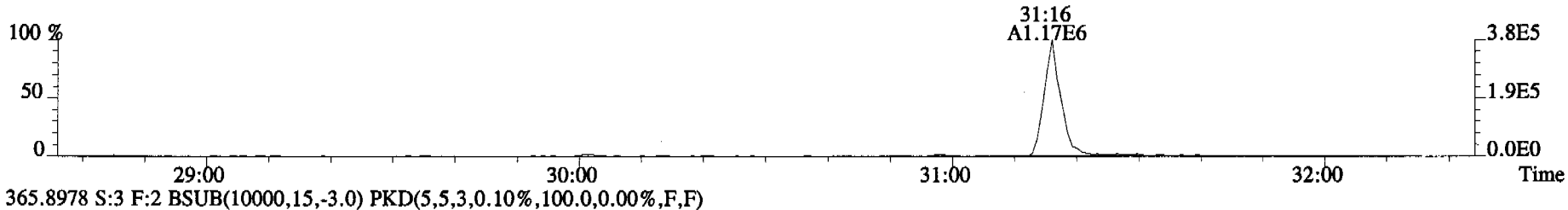
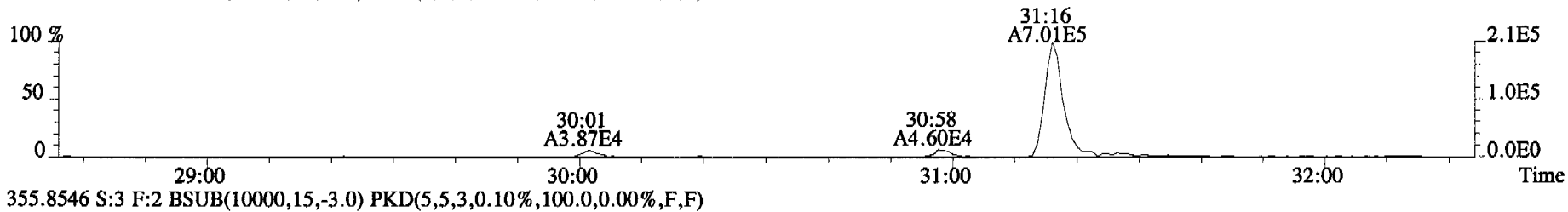
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



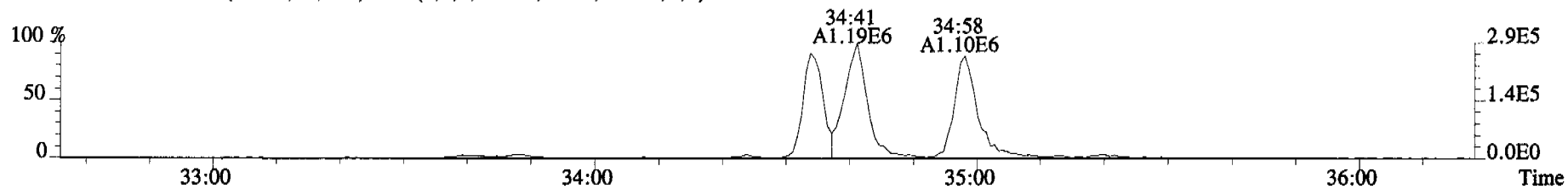
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



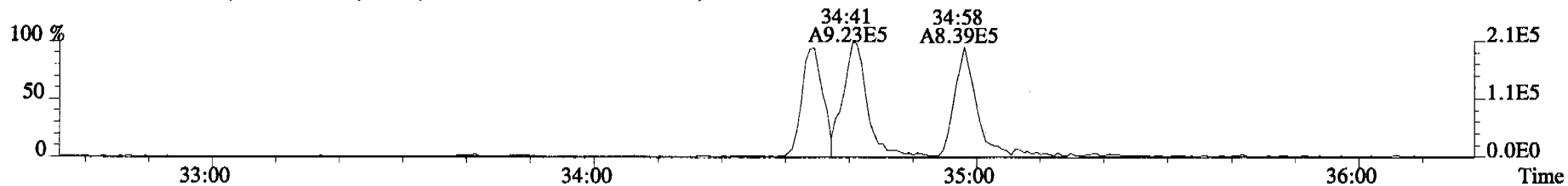
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



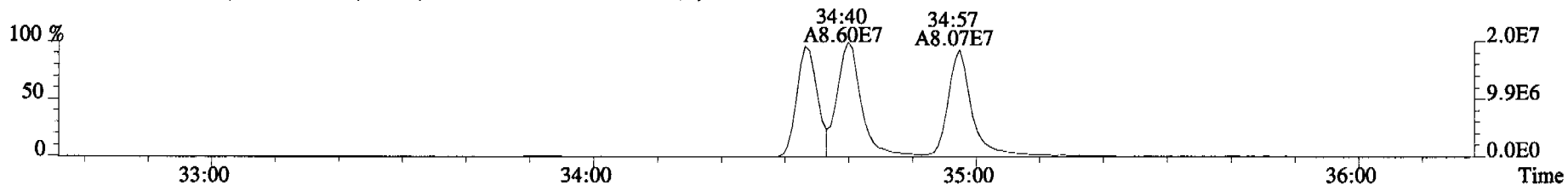
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



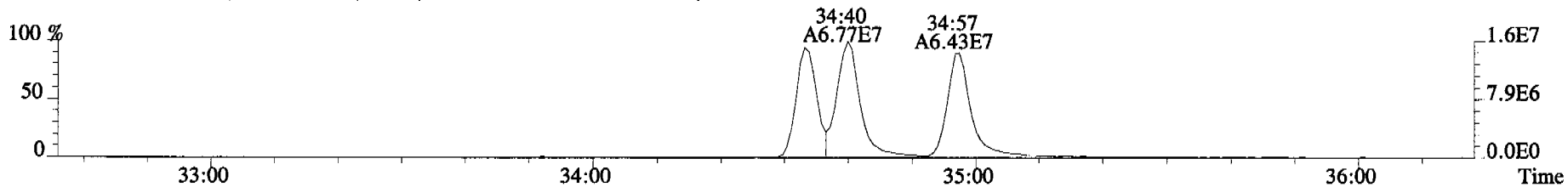
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



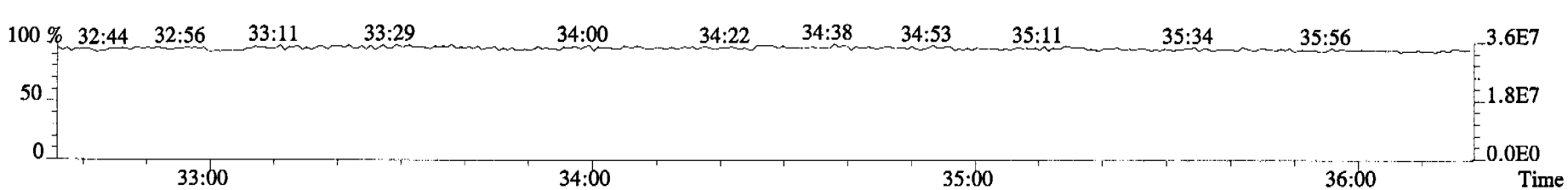
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



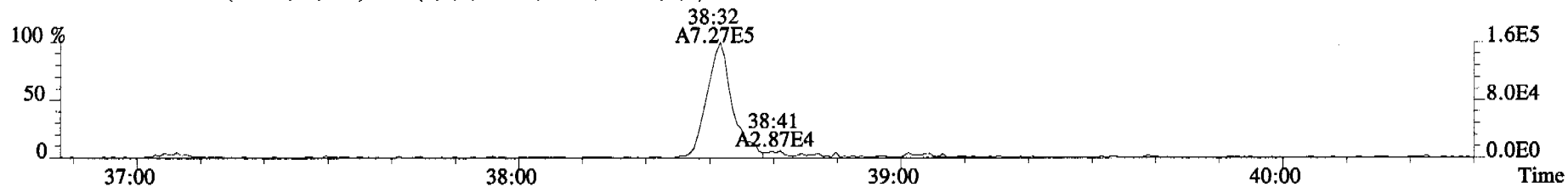
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



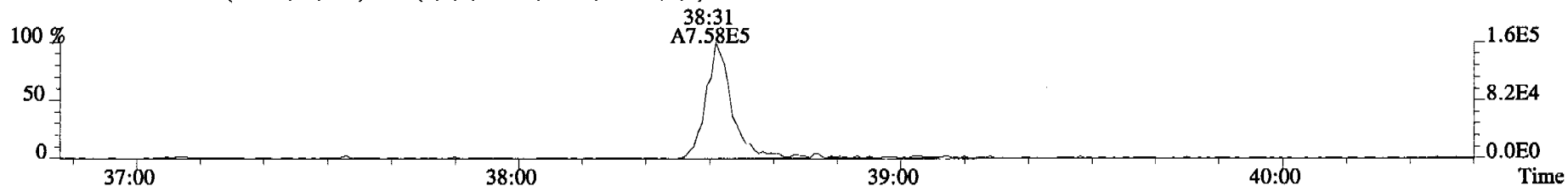
380.9760 S:3 F:3



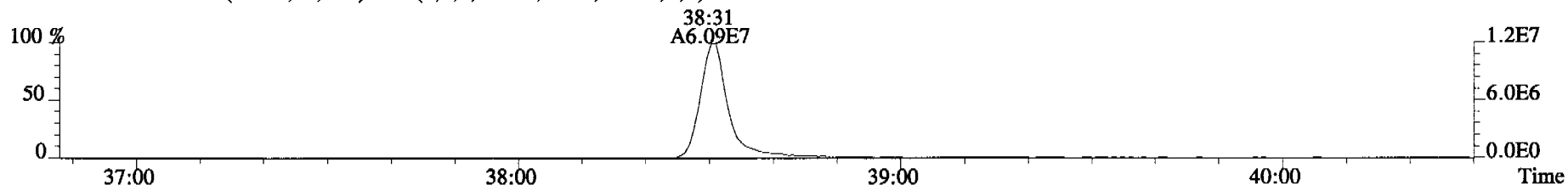
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



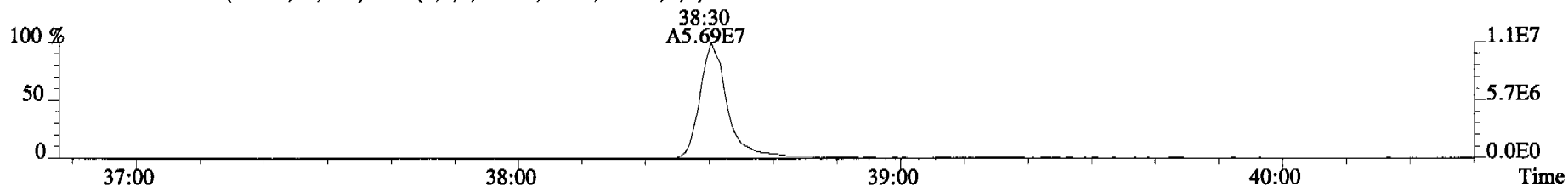
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



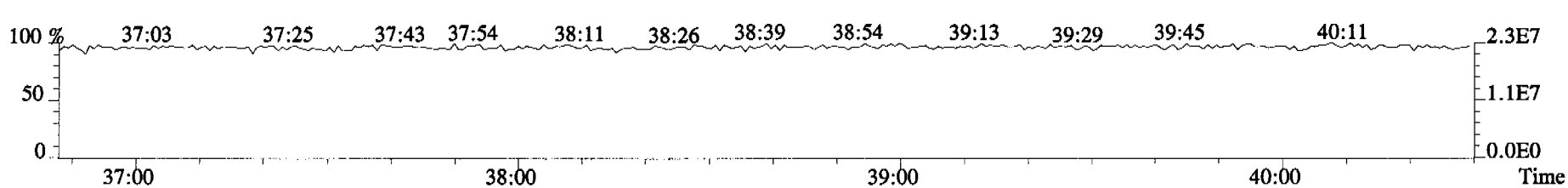
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



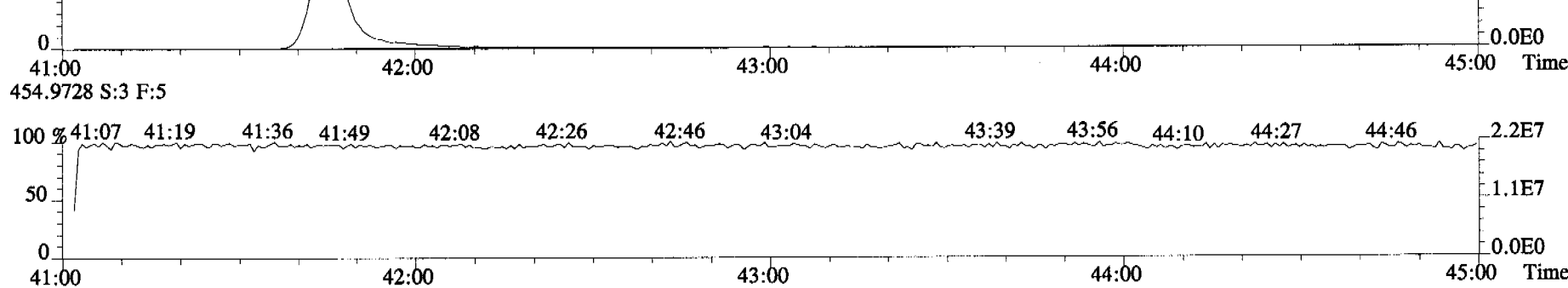
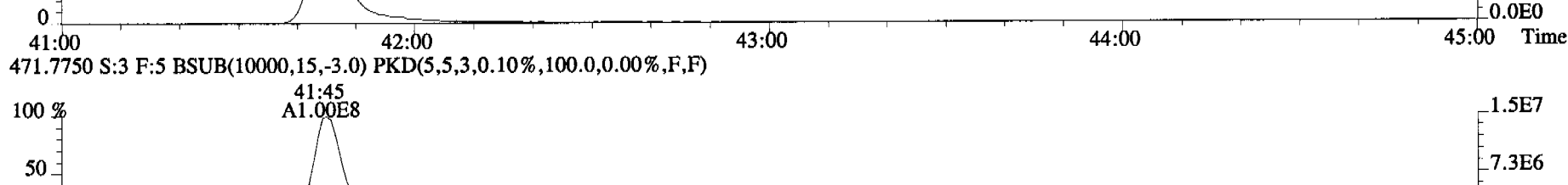
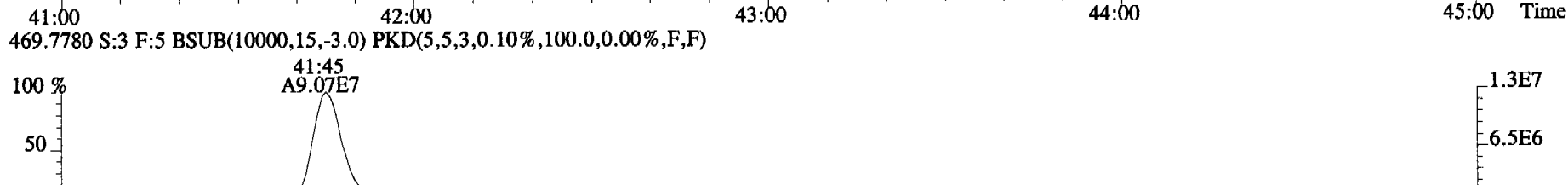
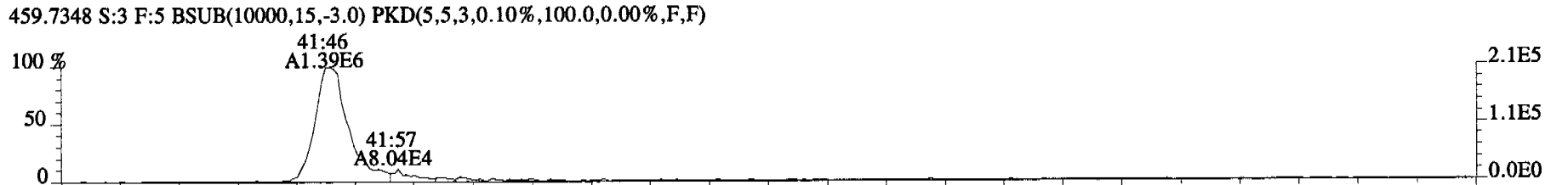
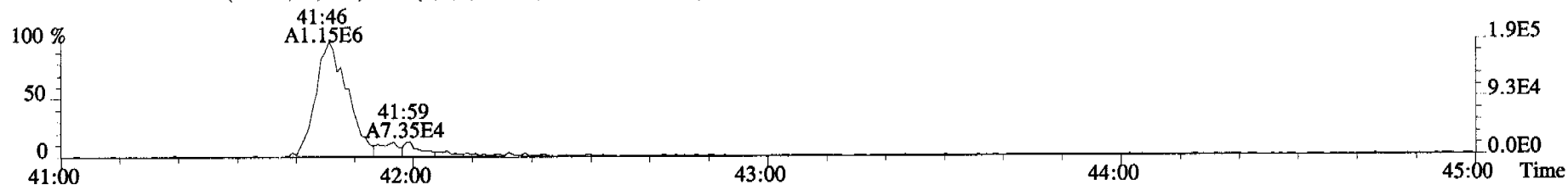
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



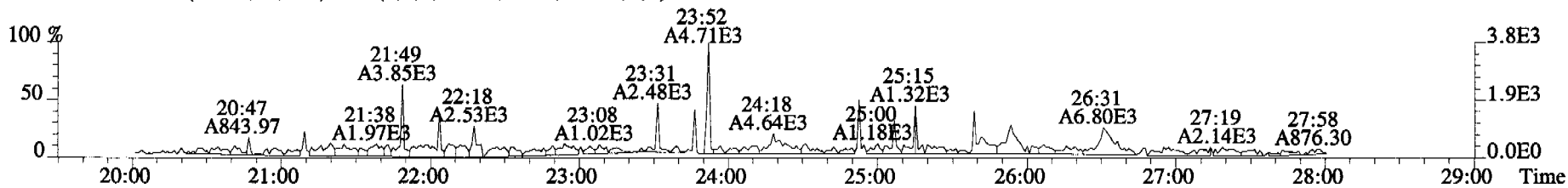
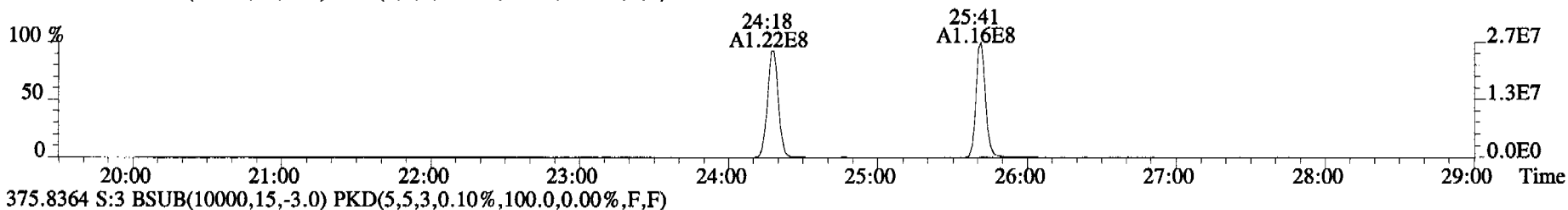
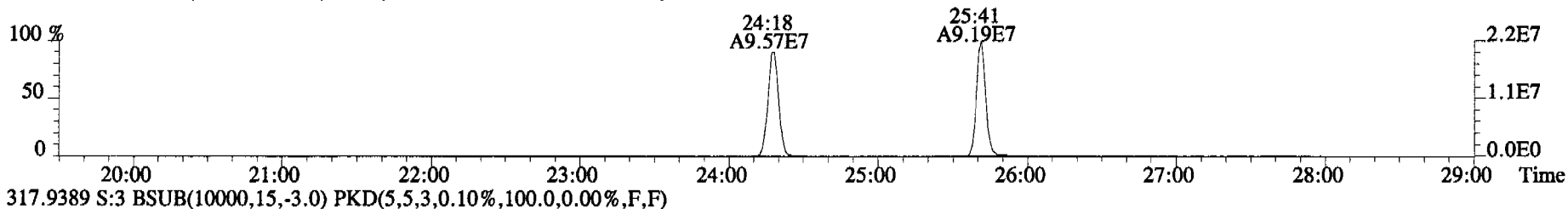
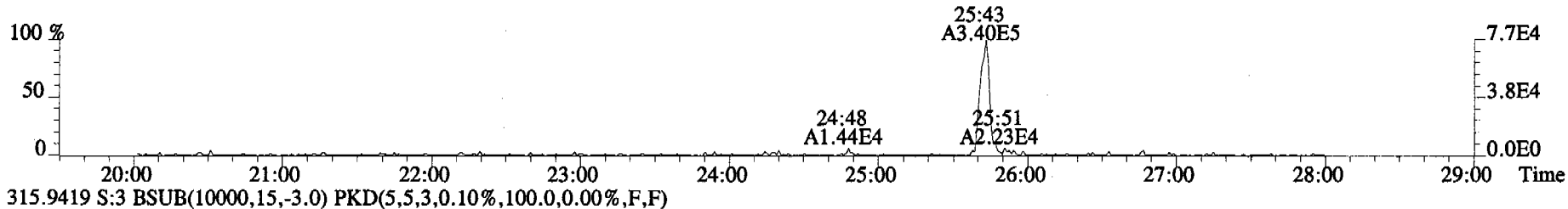
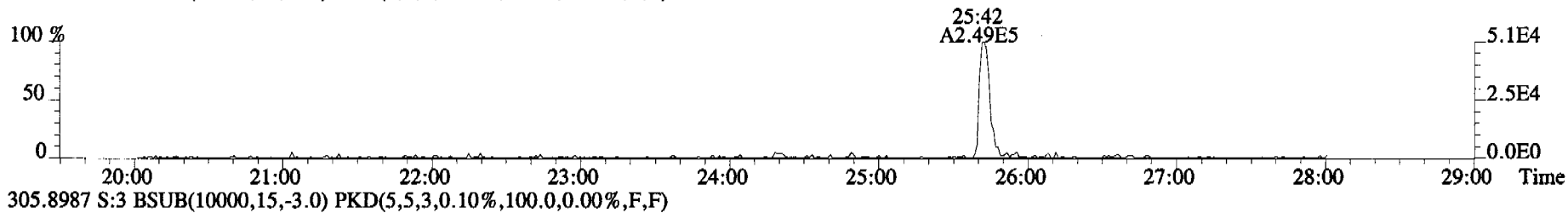
430.9728 S:3 F:4



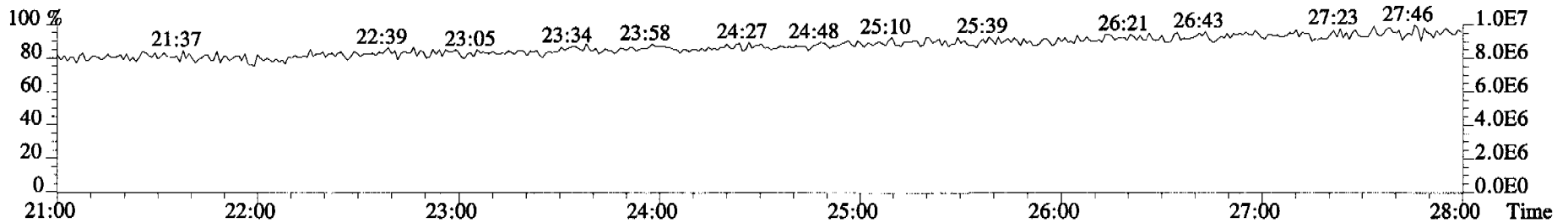
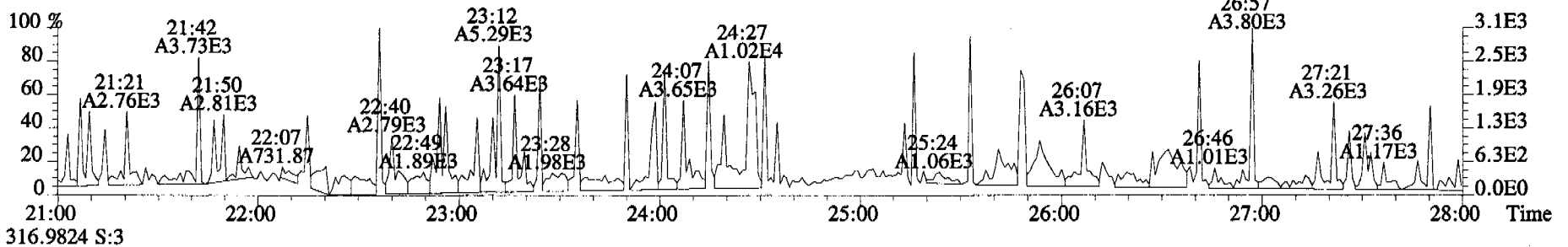
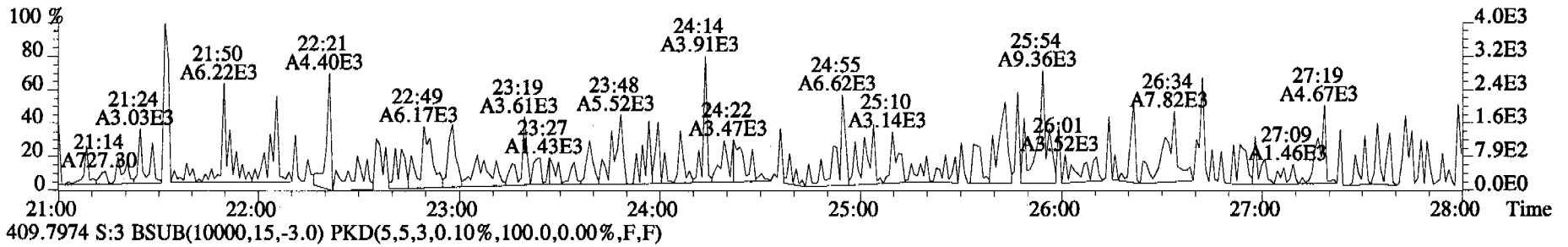
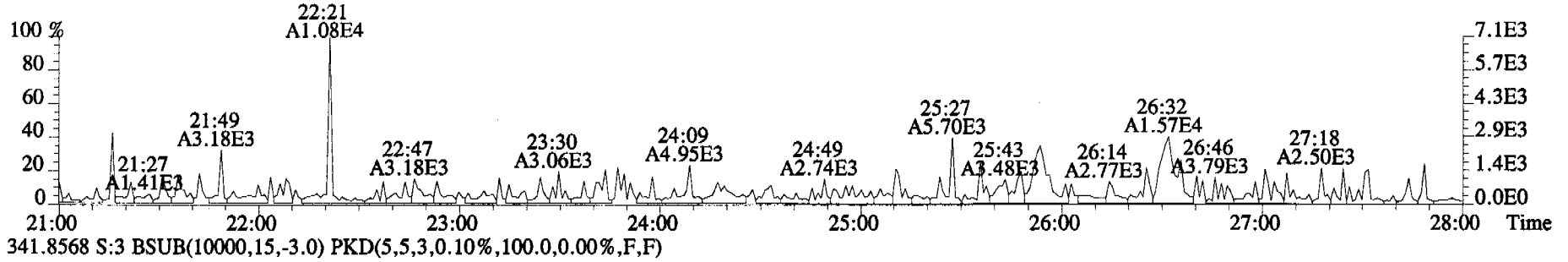
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



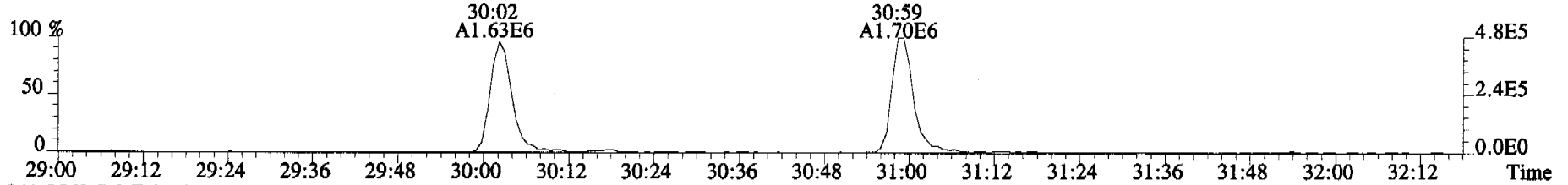
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



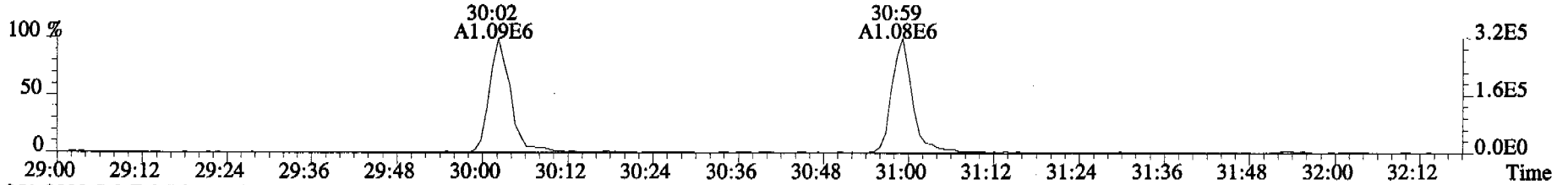
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



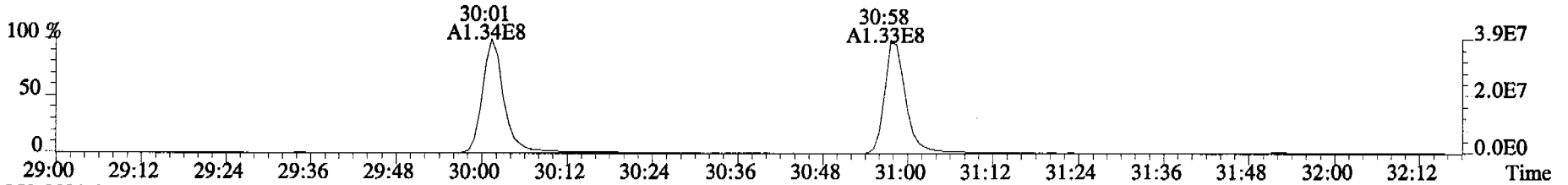
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



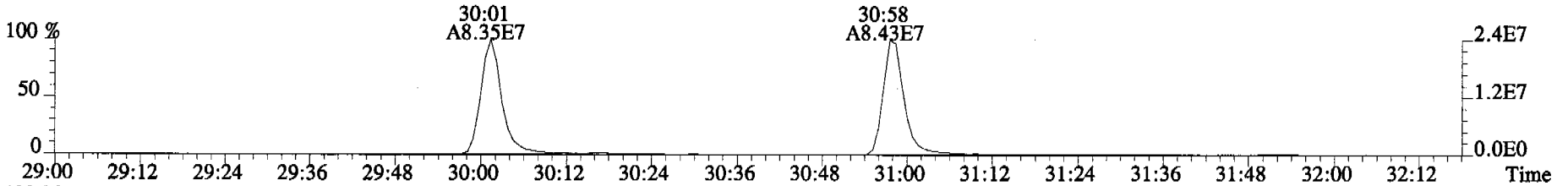
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



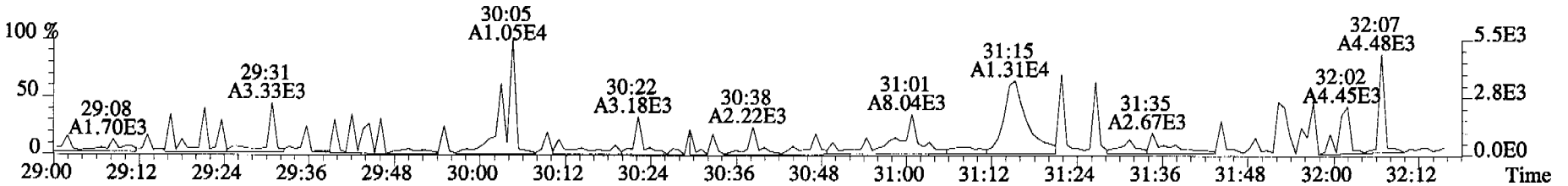
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



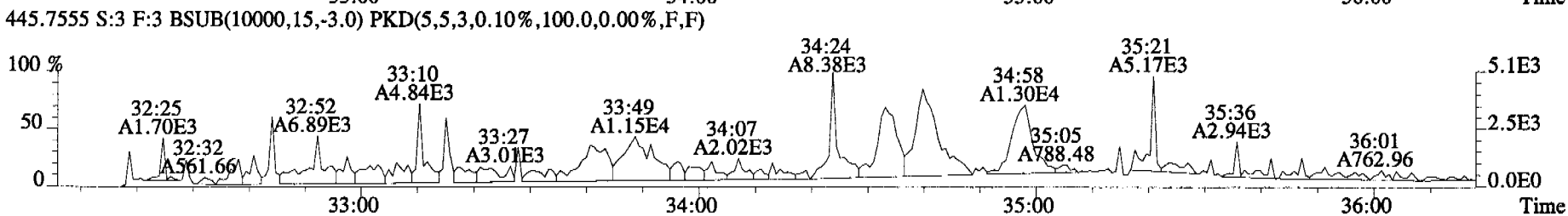
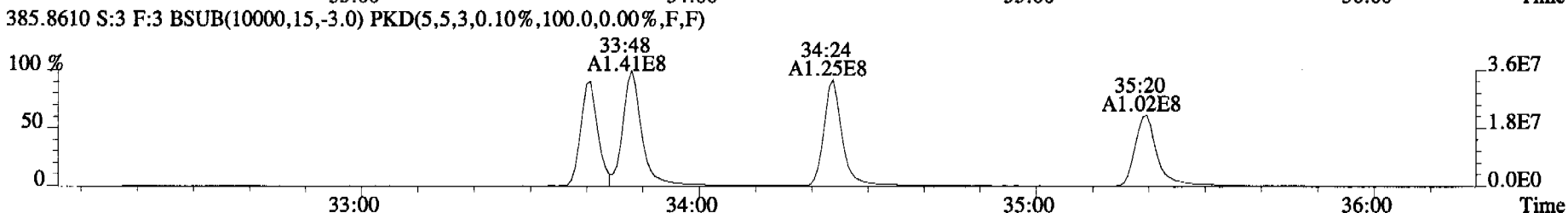
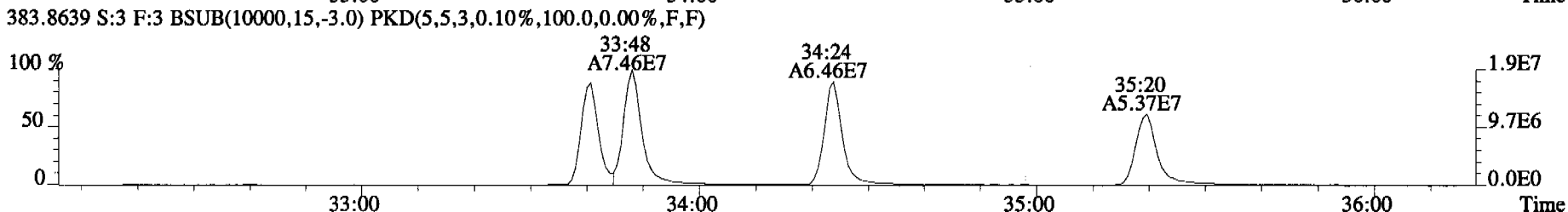
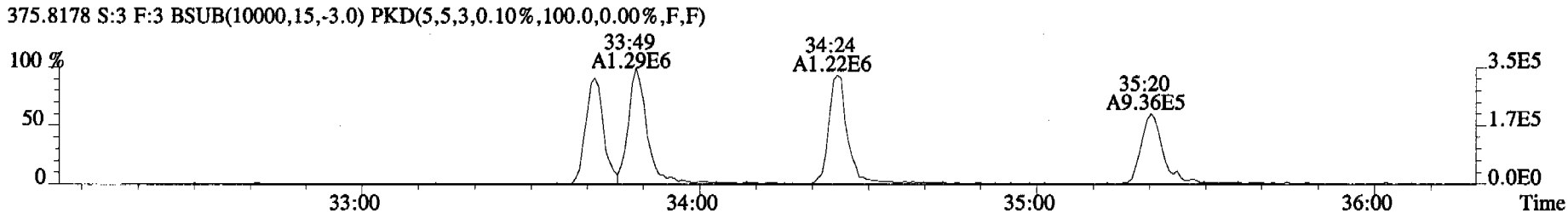
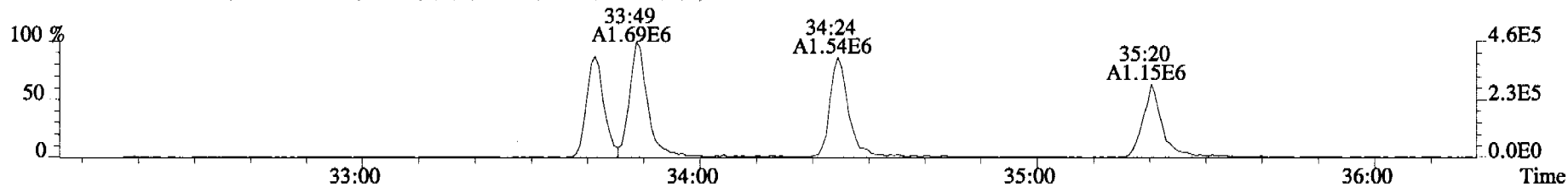
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



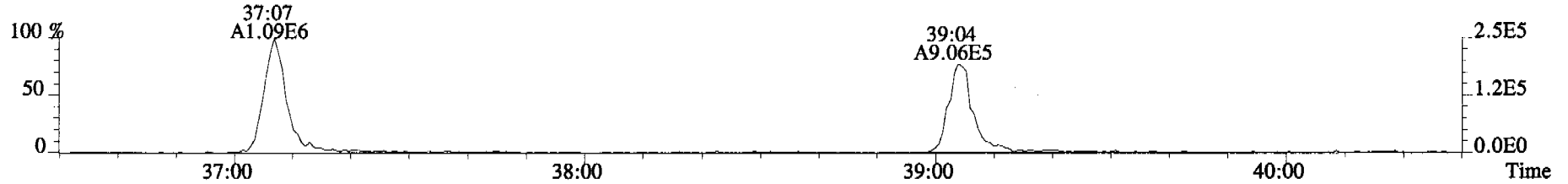
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



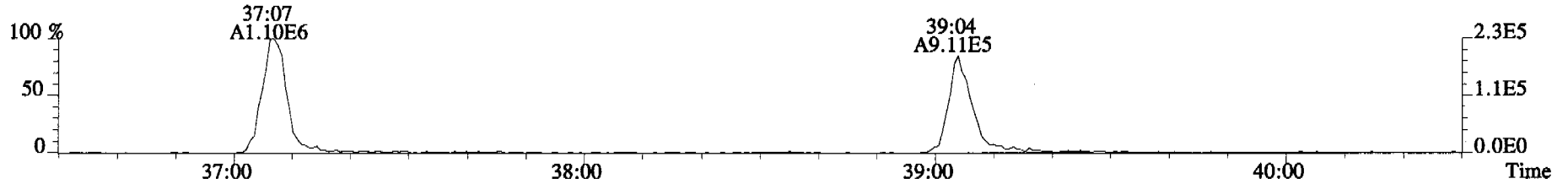
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



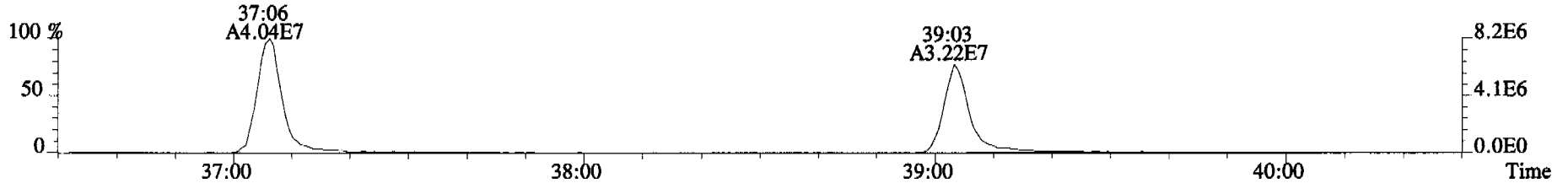
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



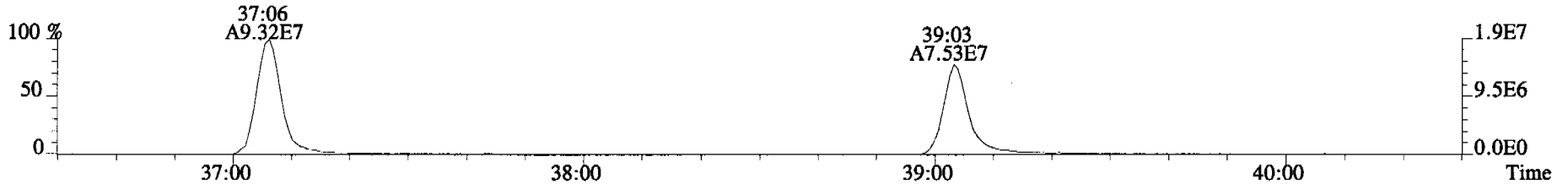
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



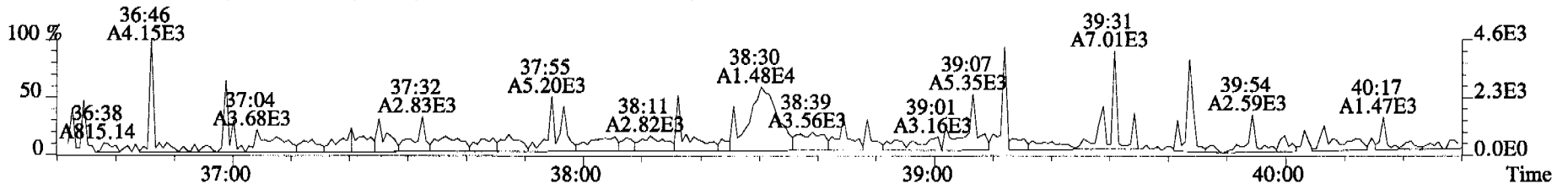
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



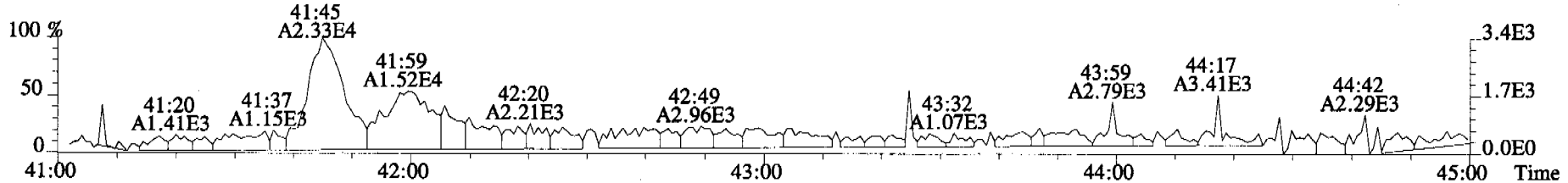
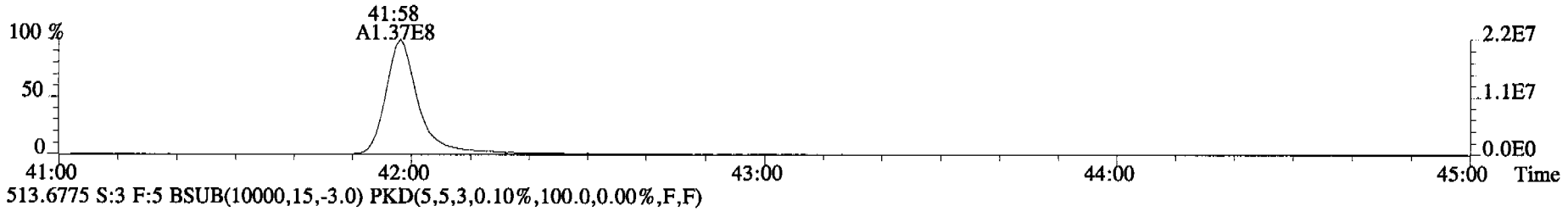
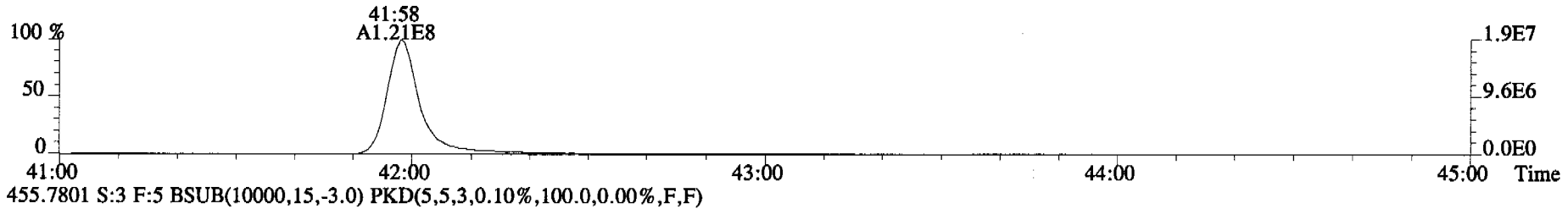
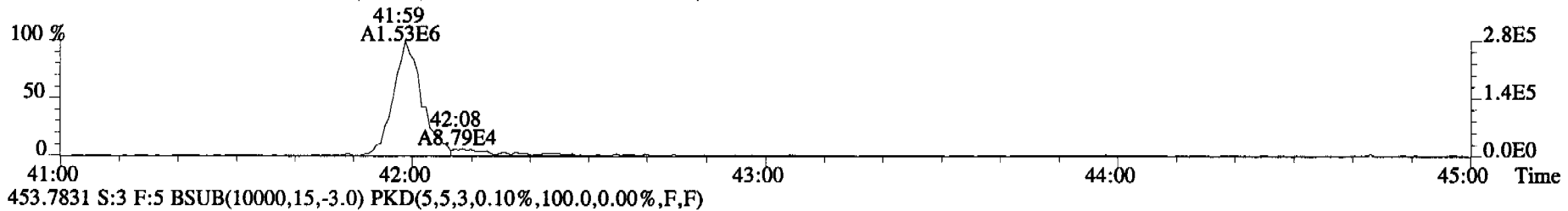
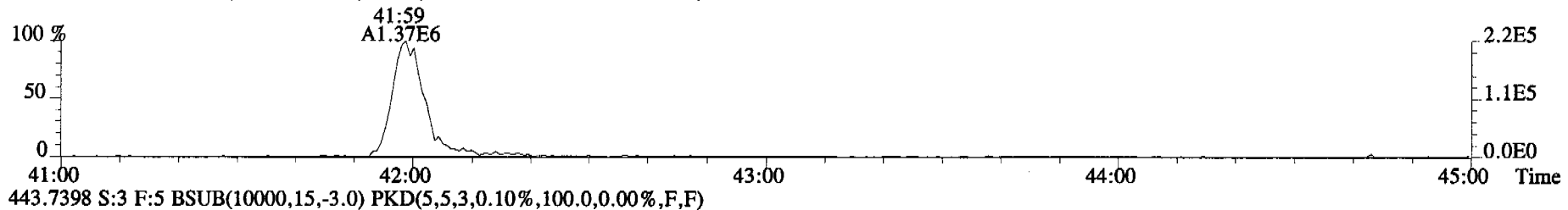
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



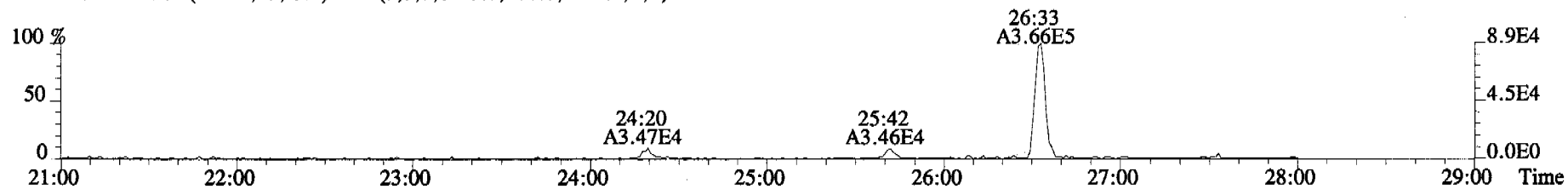
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



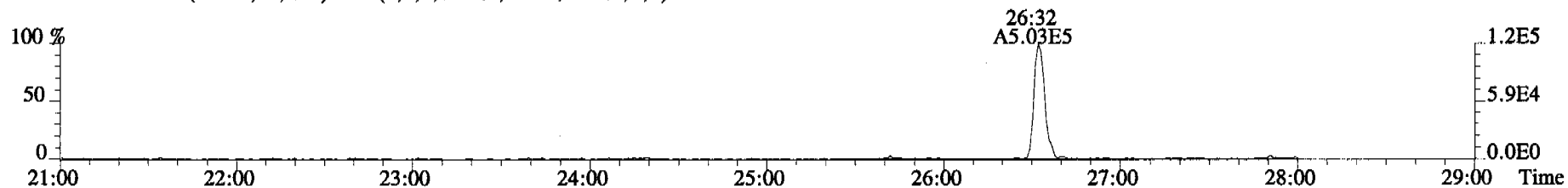
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



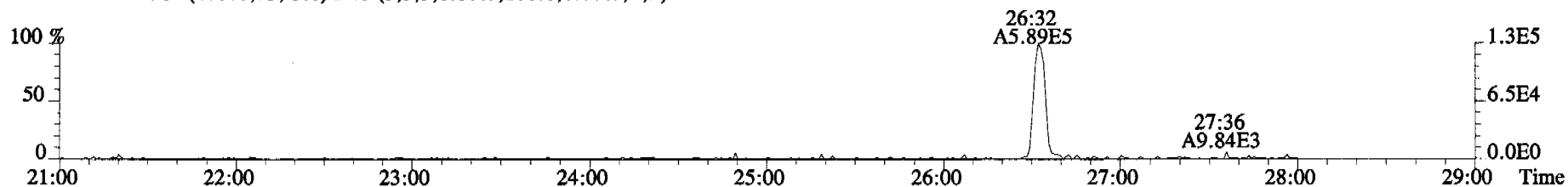
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



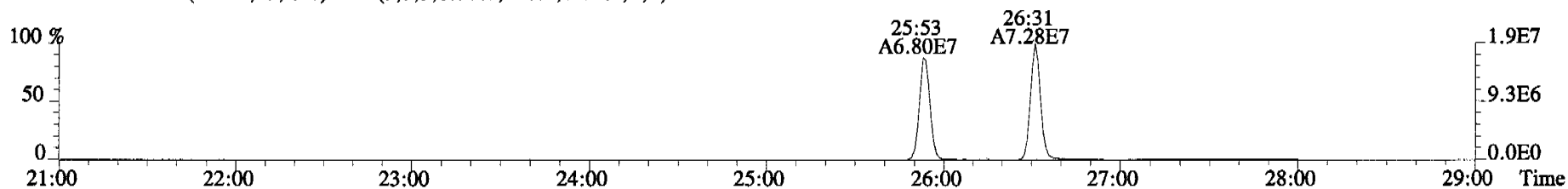
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



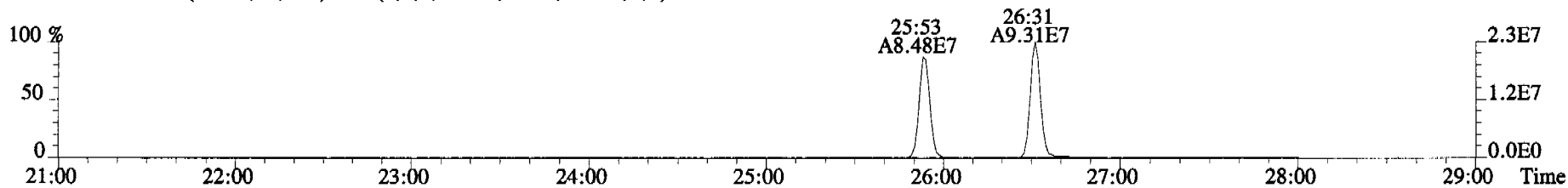
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



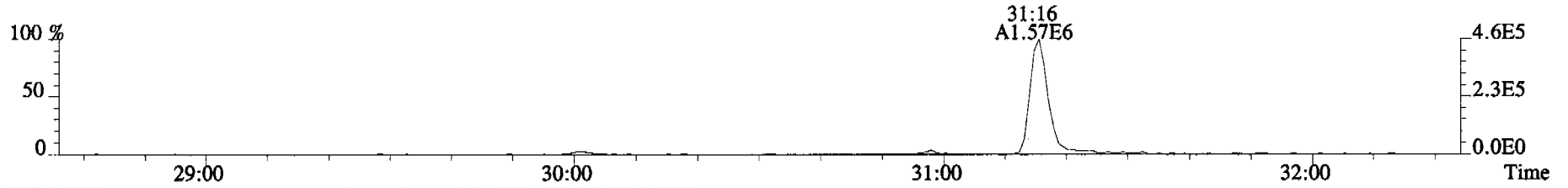
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



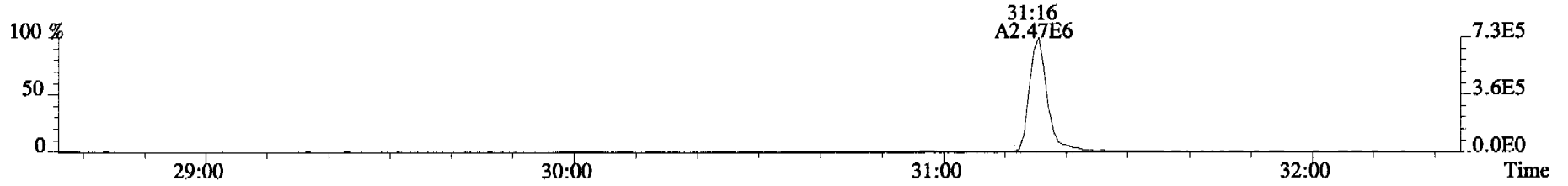
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



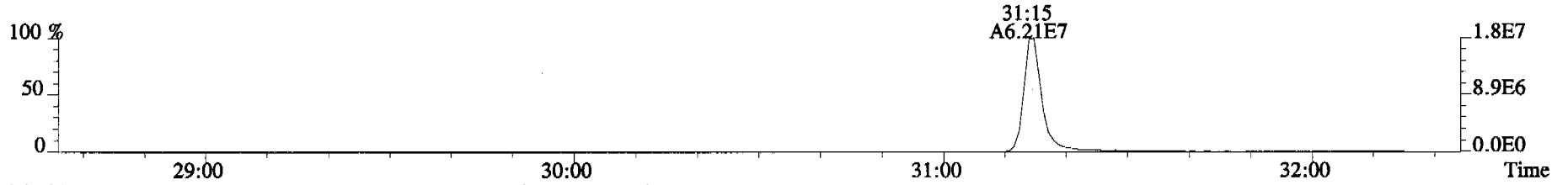
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



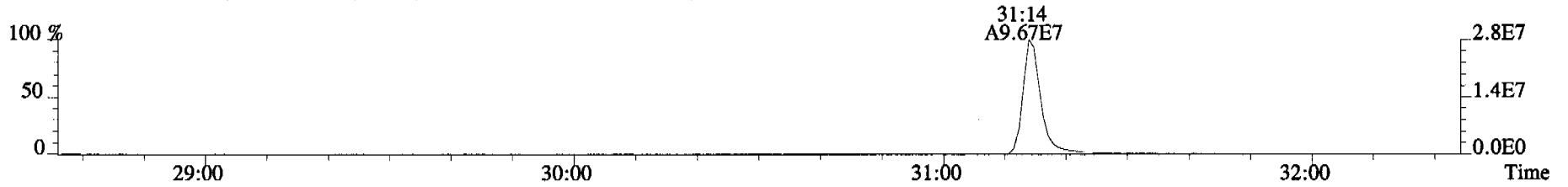
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



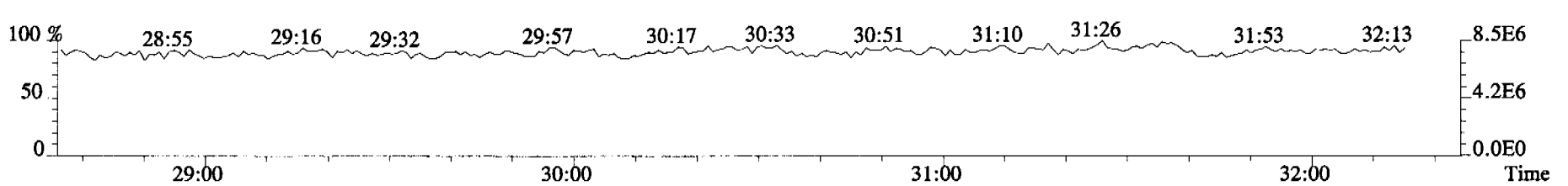
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



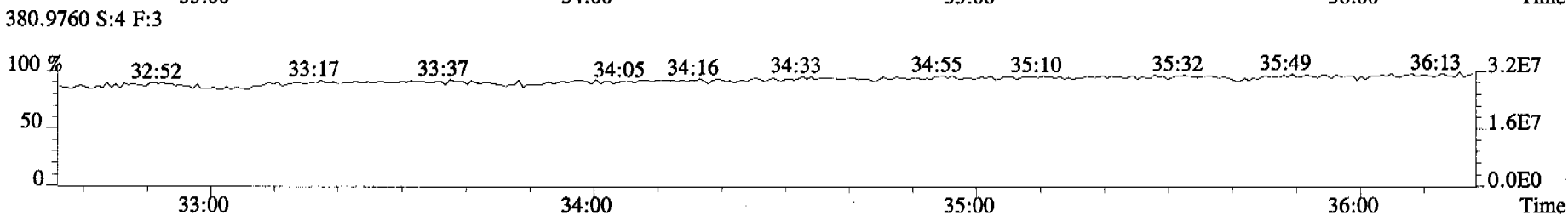
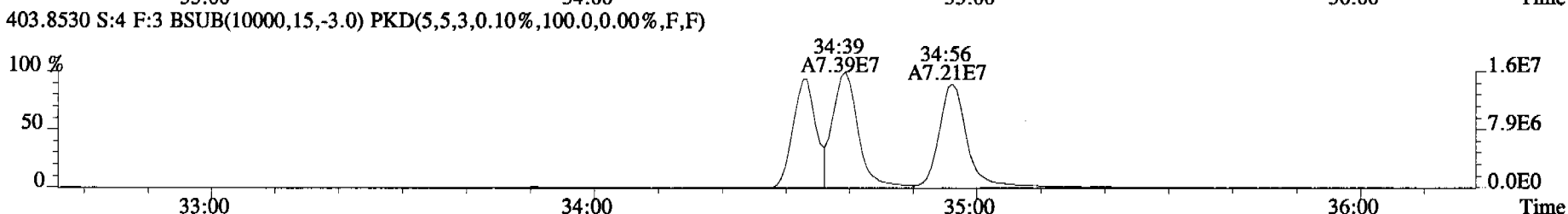
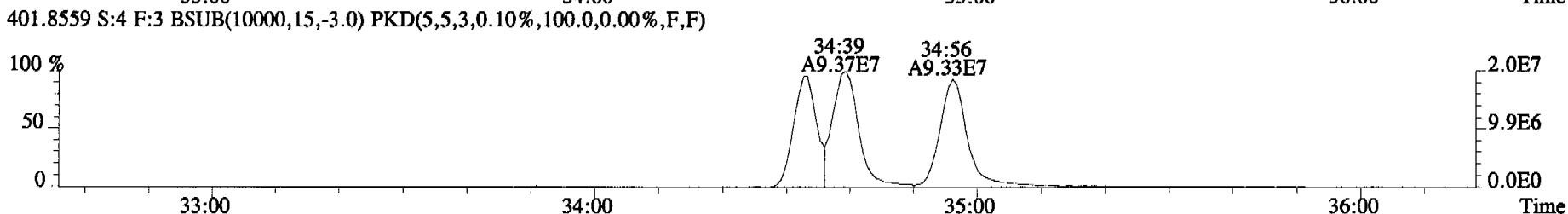
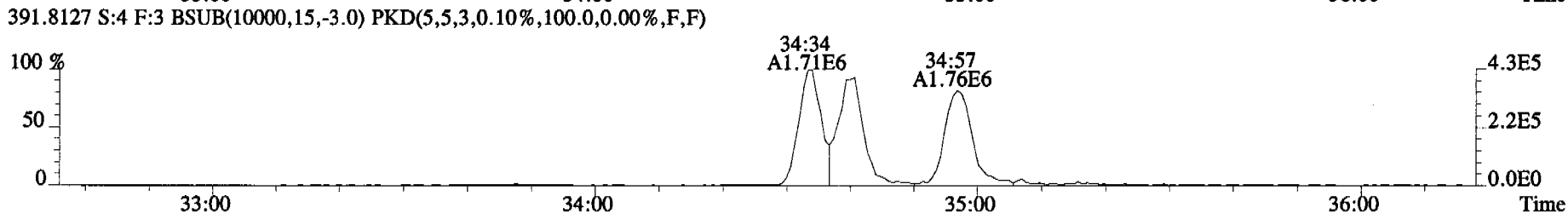
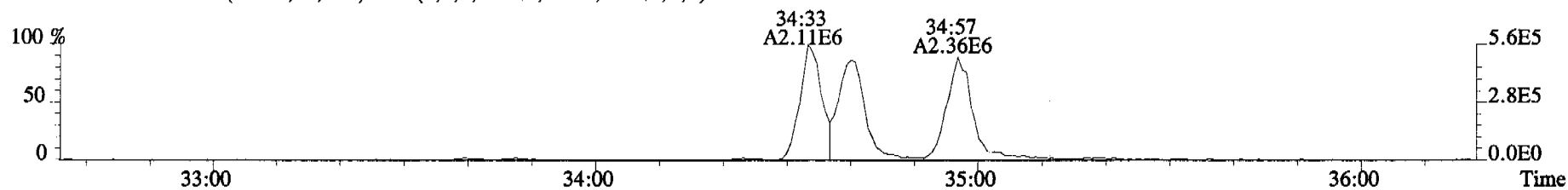
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



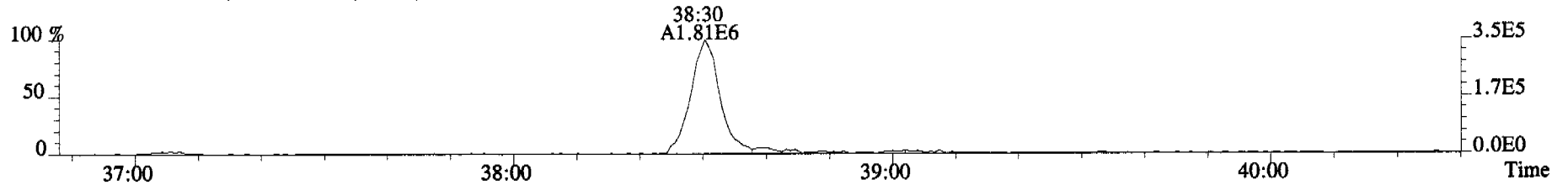
366.9792 S:4 F:2



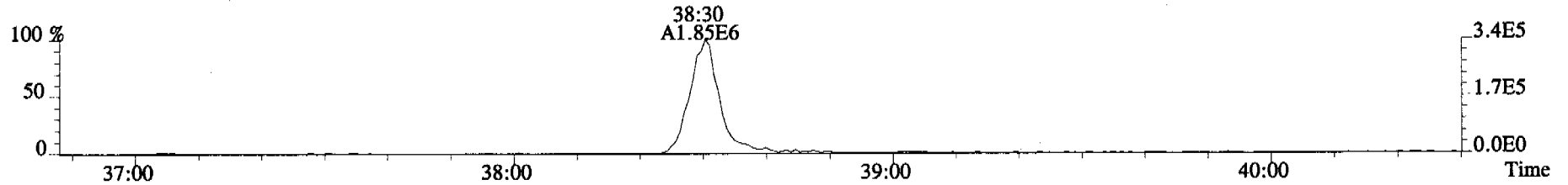
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



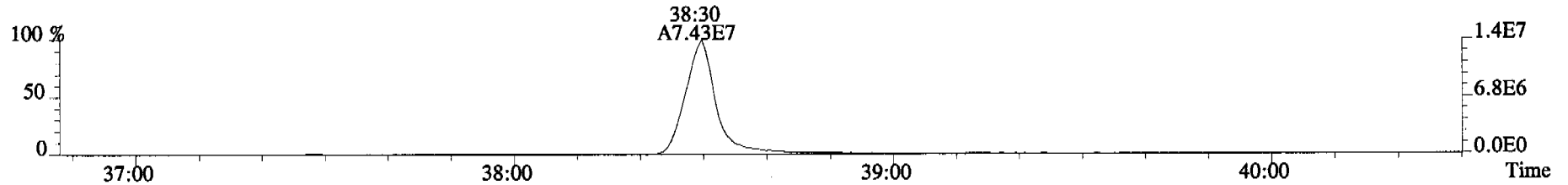
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



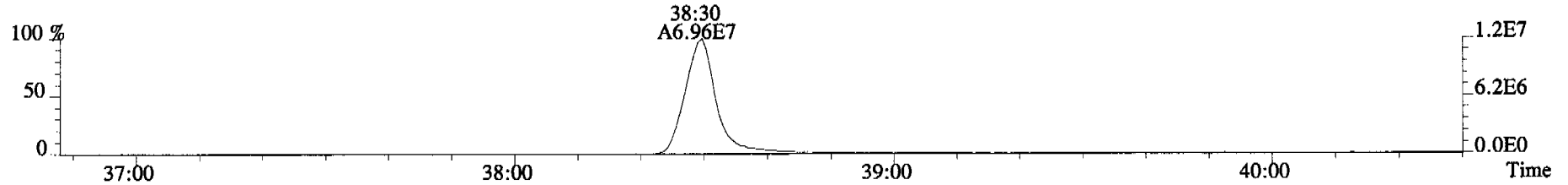
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



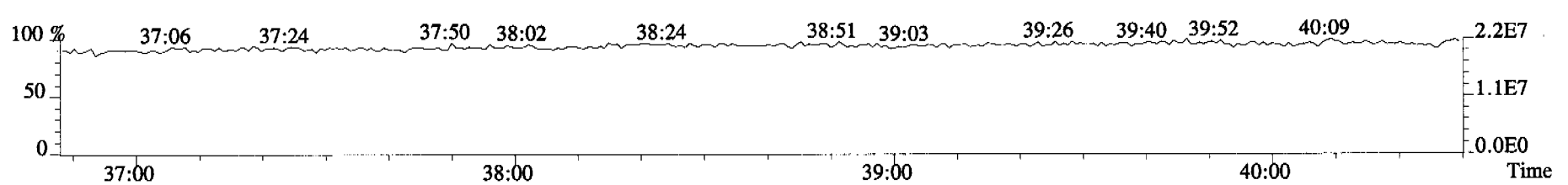
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



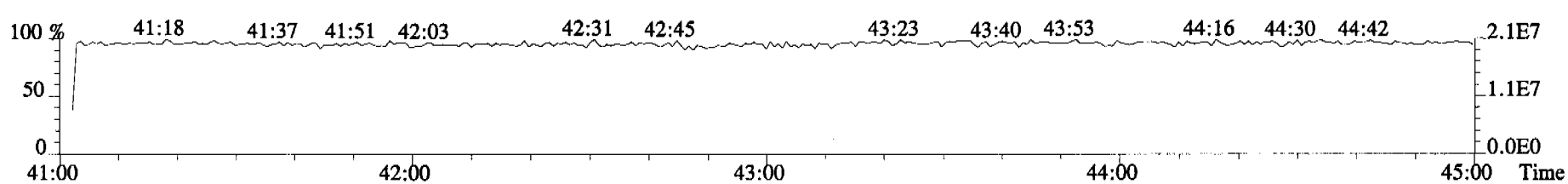
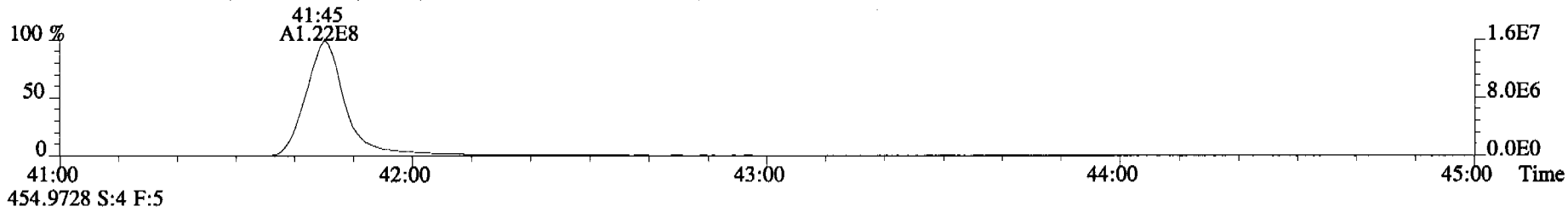
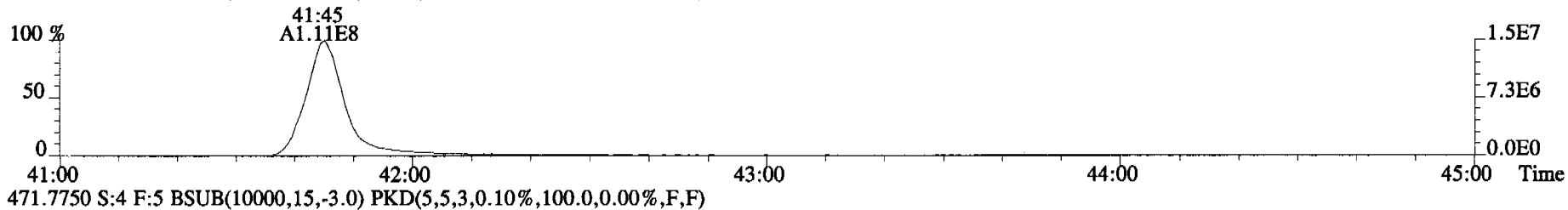
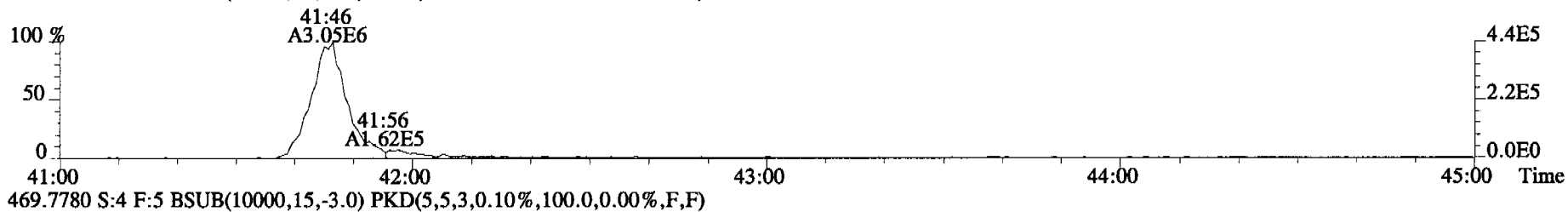
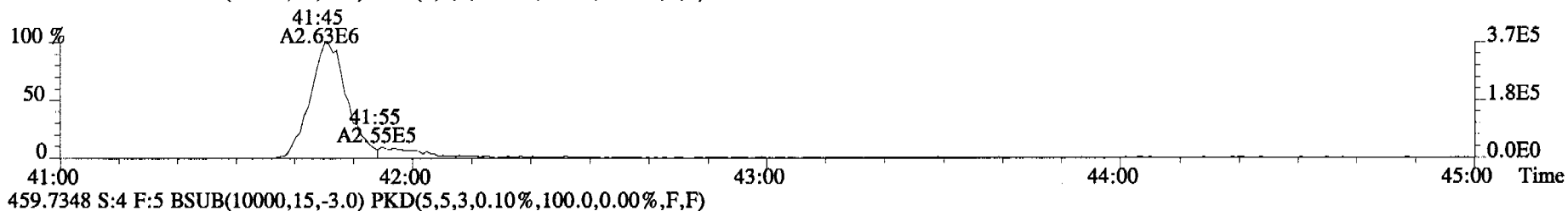
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



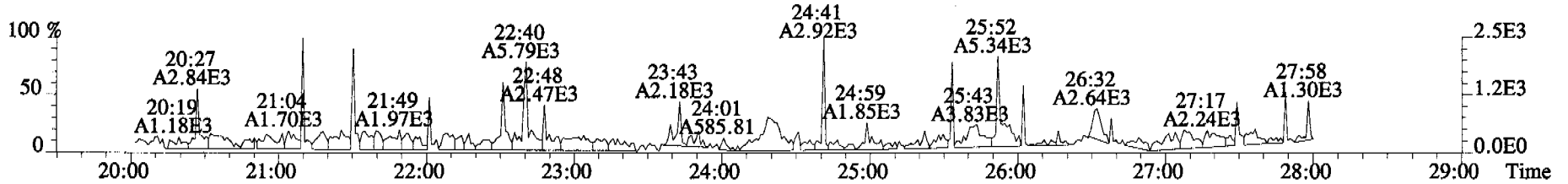
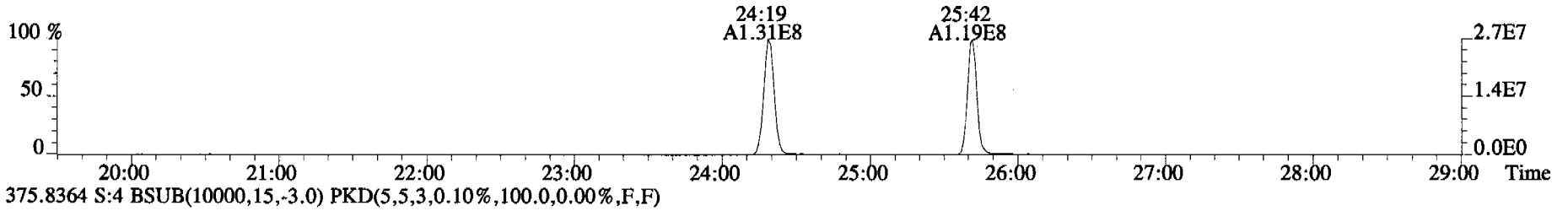
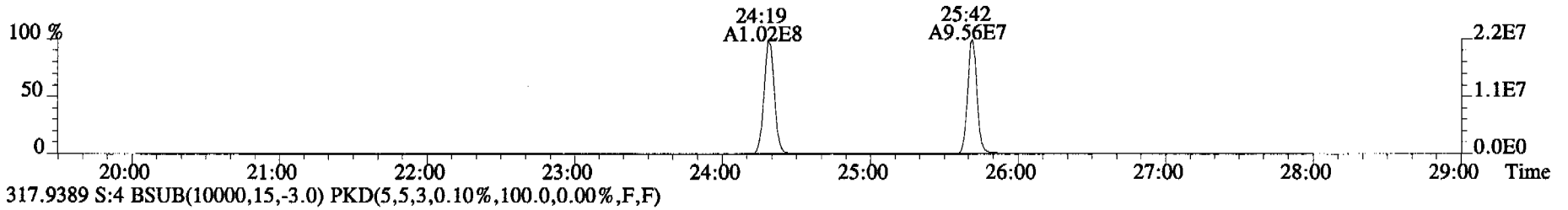
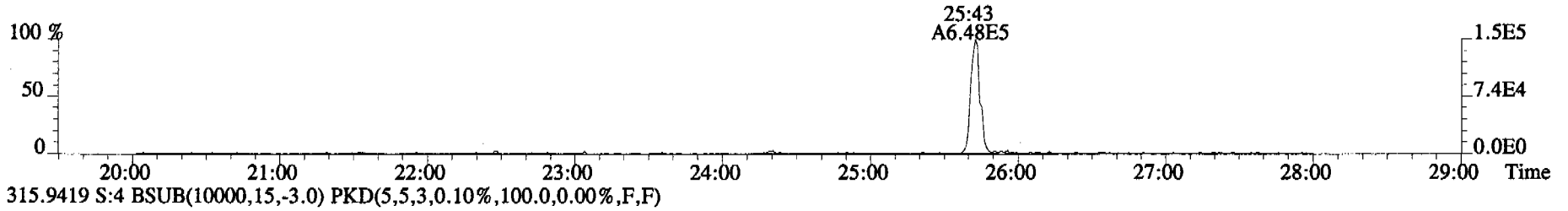
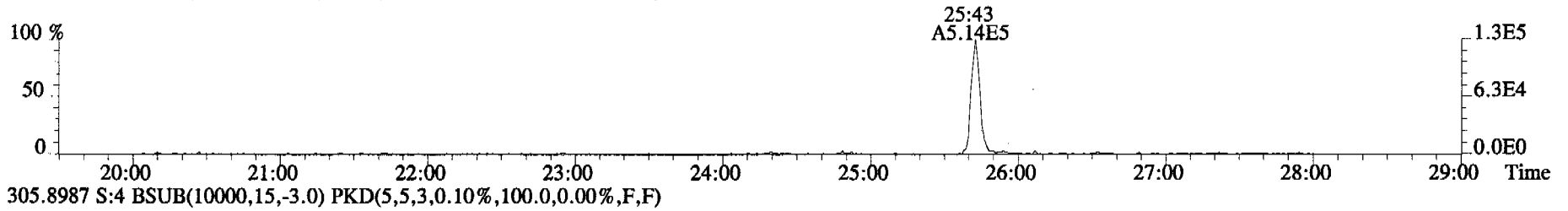
430.9728 S:4 F:4



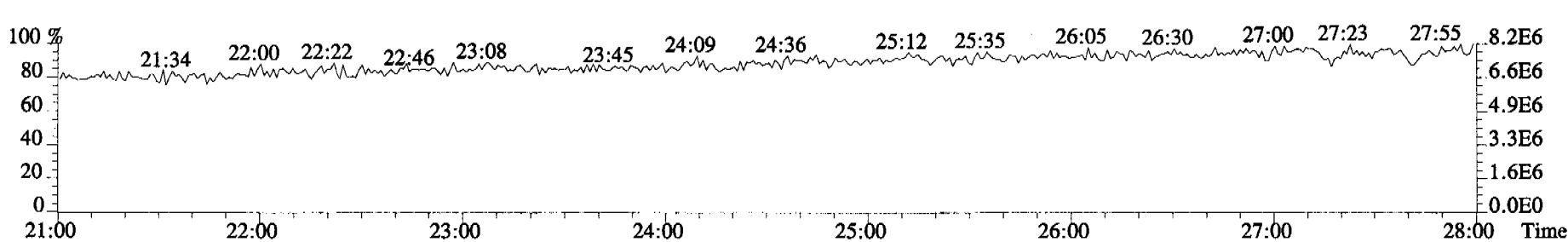
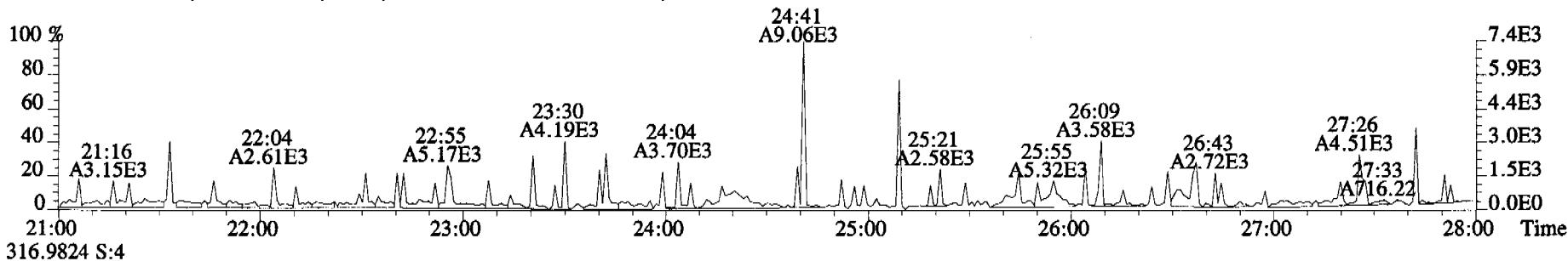
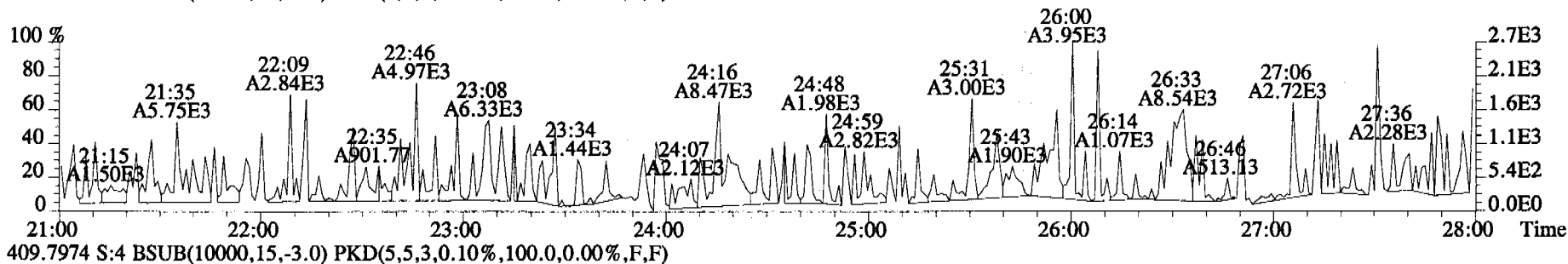
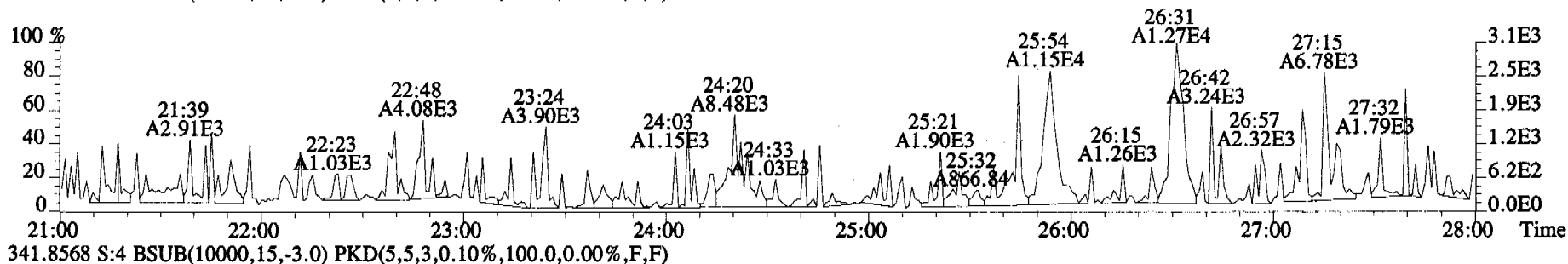
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



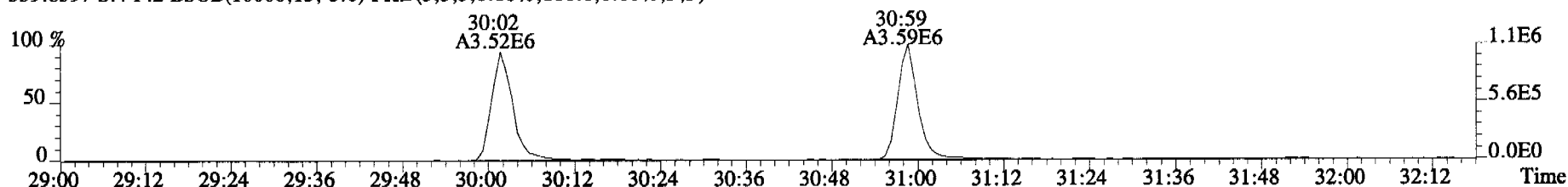
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



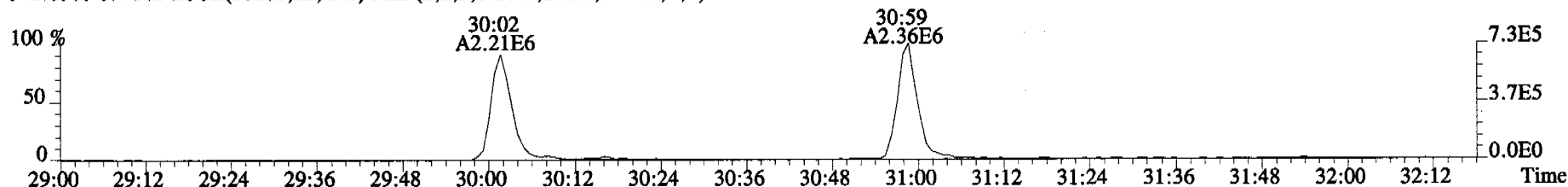
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



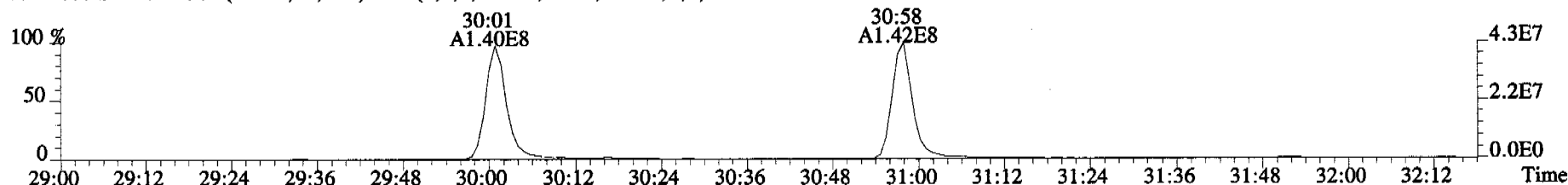
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



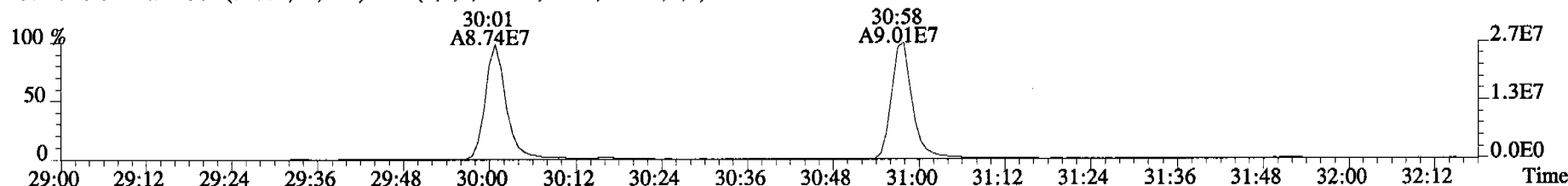
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



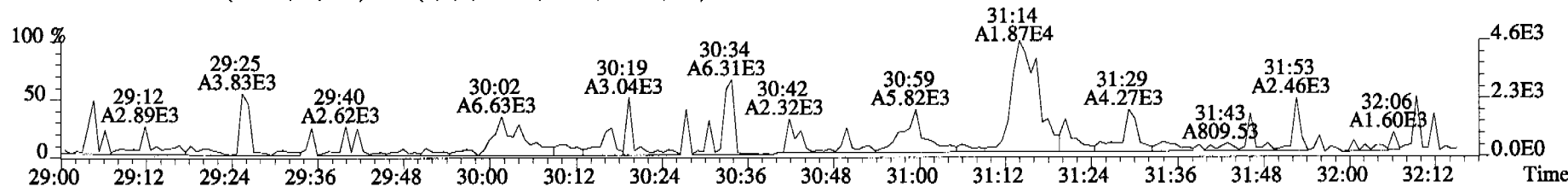
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



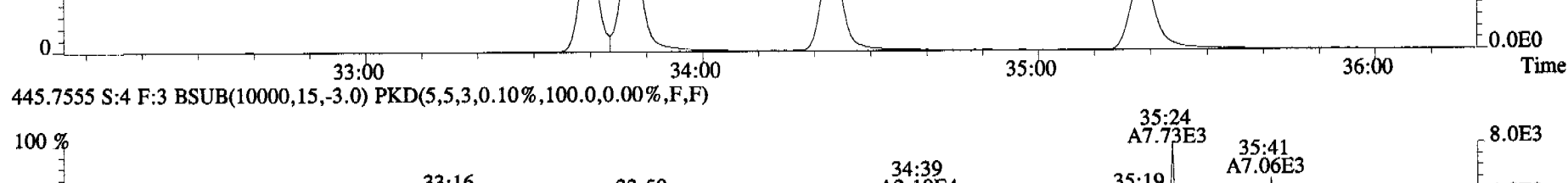
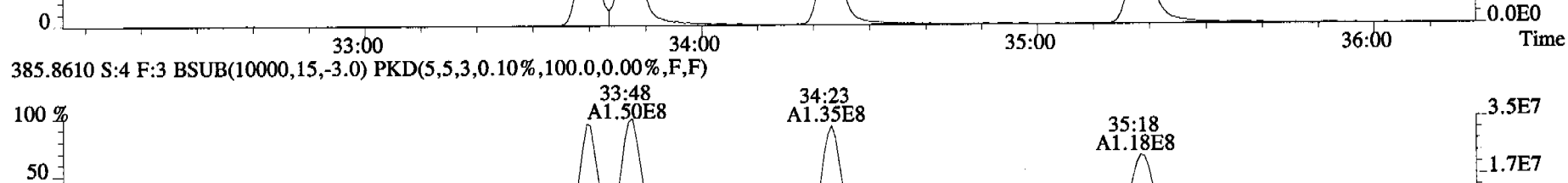
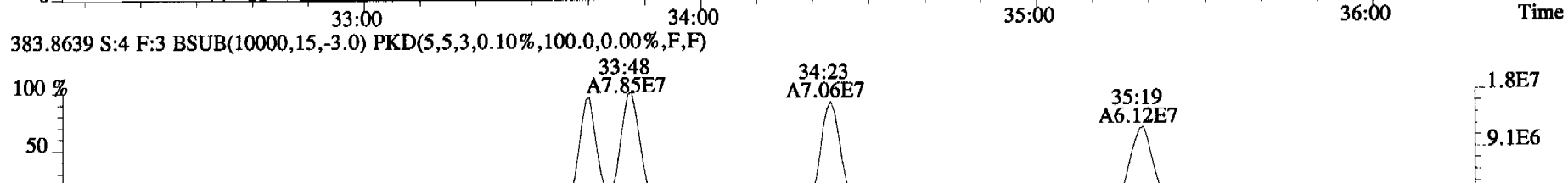
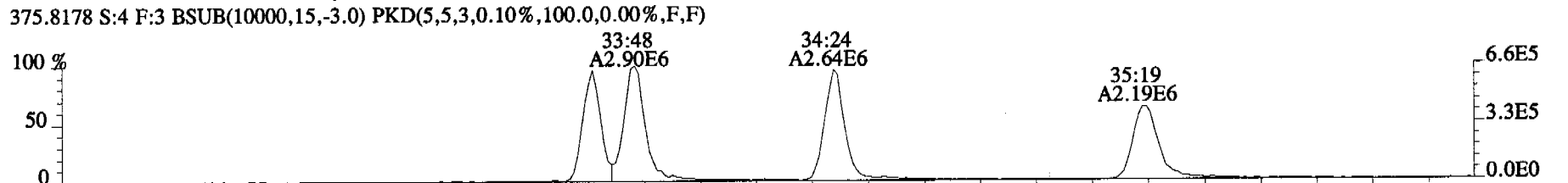
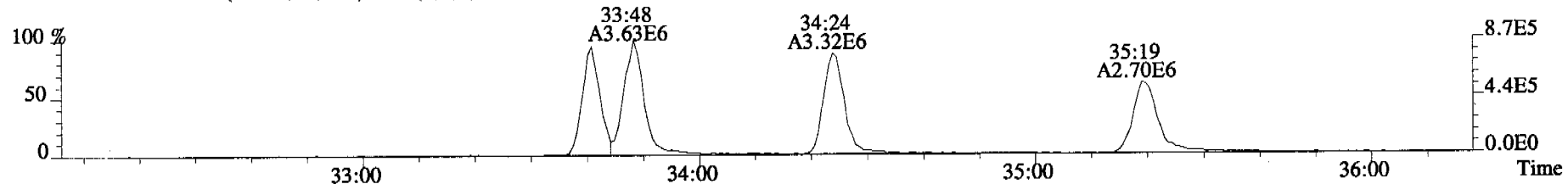
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



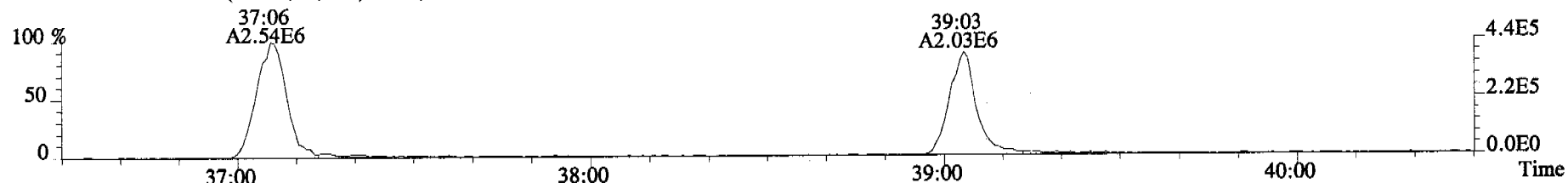
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



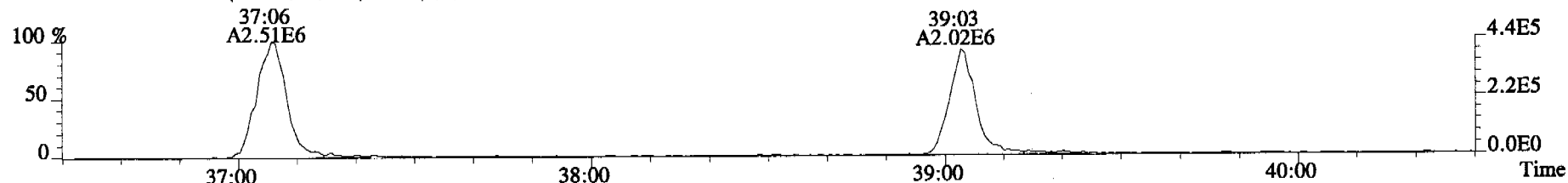
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



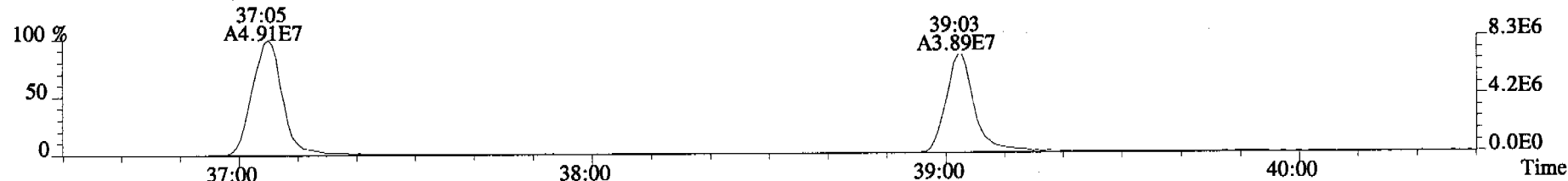
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



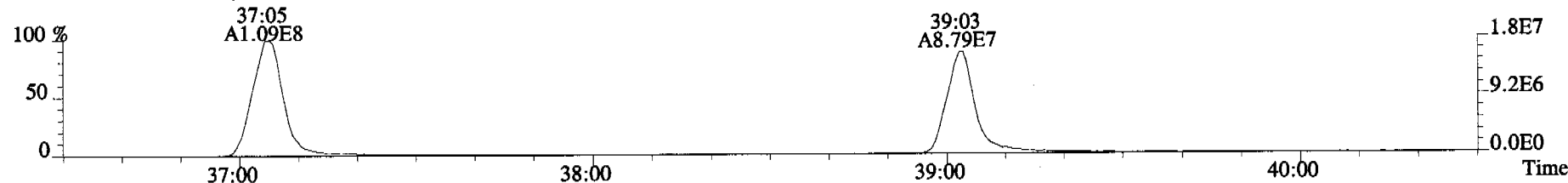
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



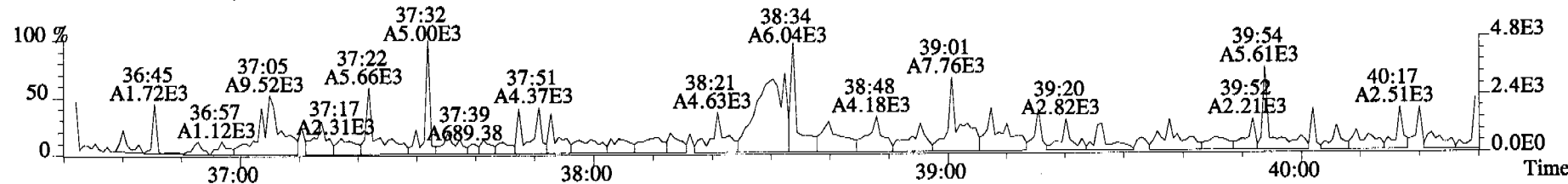
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



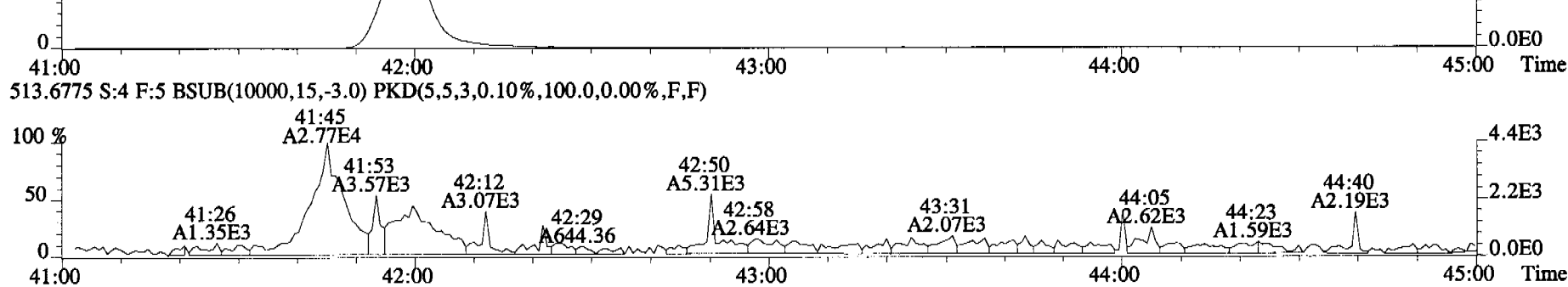
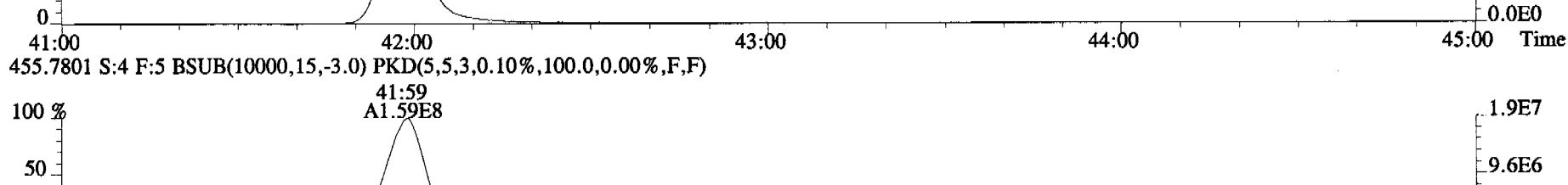
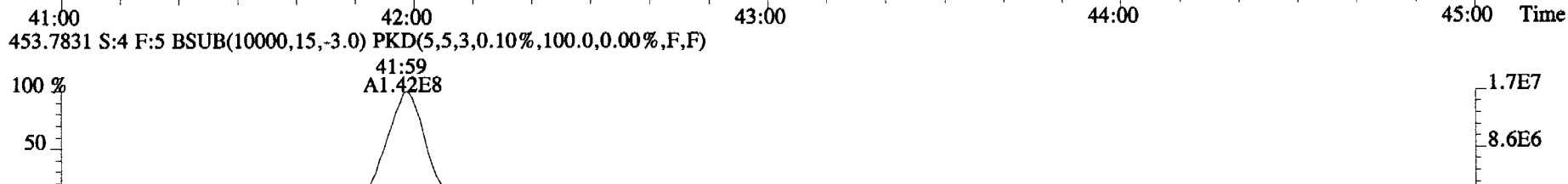
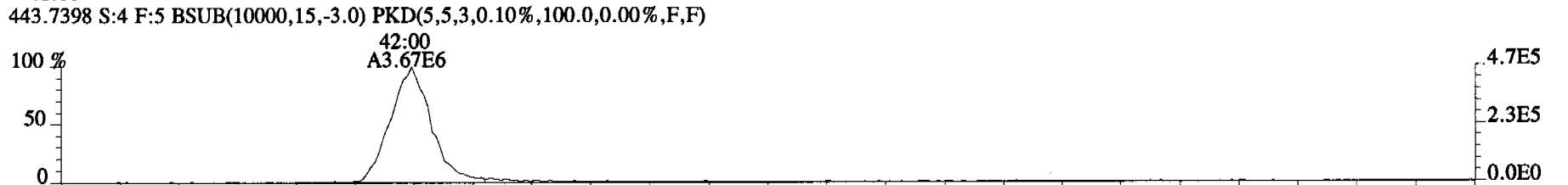
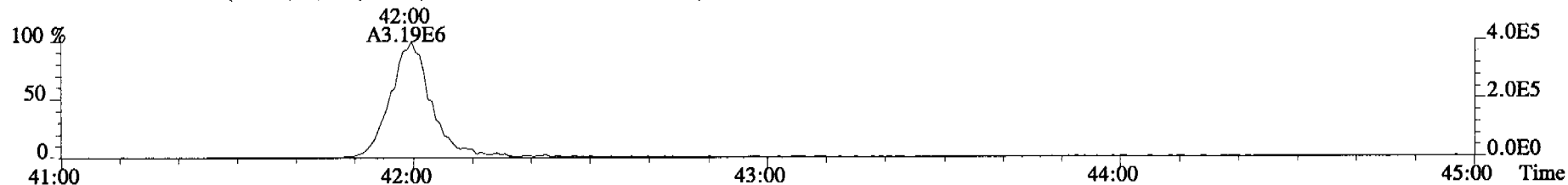
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



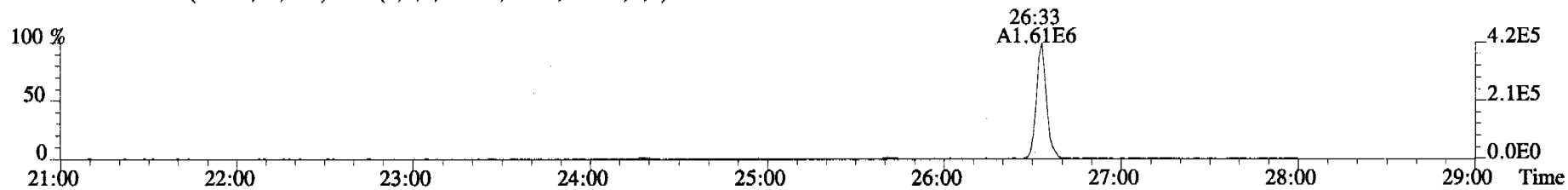
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



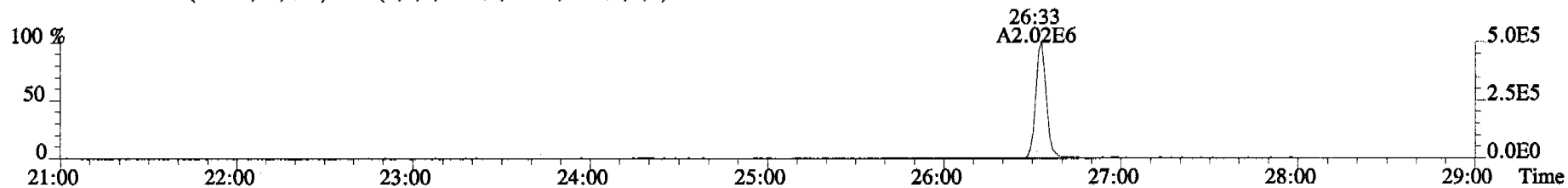
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



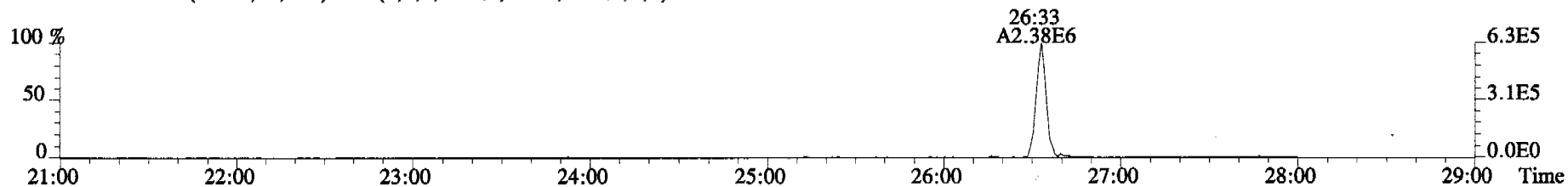
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



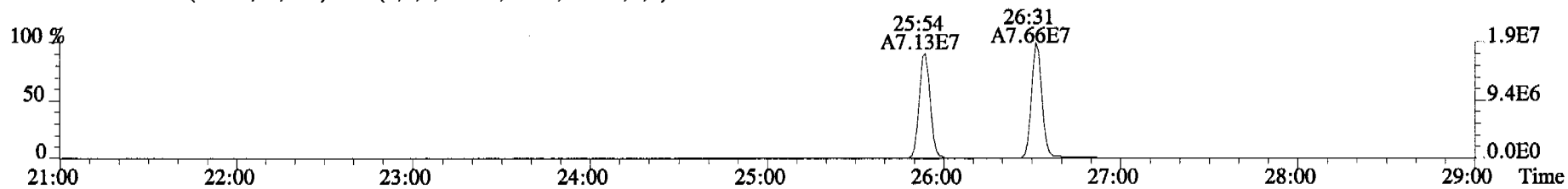
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



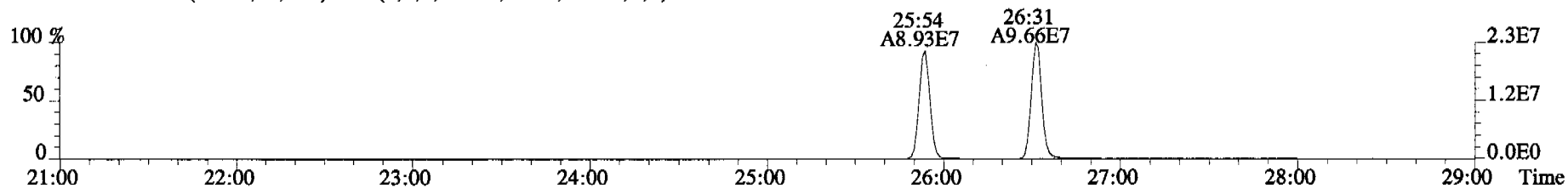
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



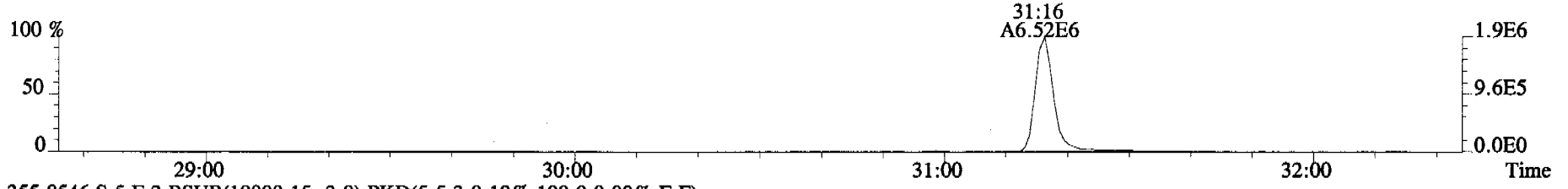
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



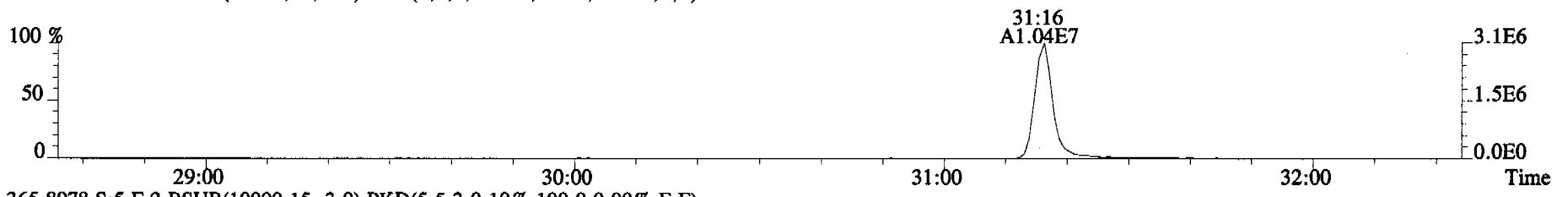
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



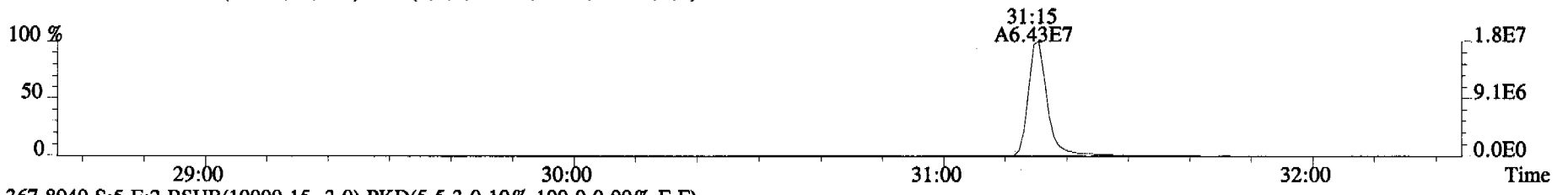
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



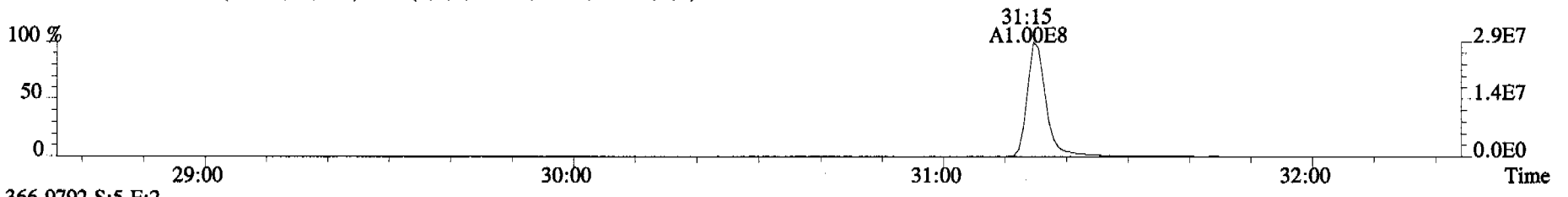
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



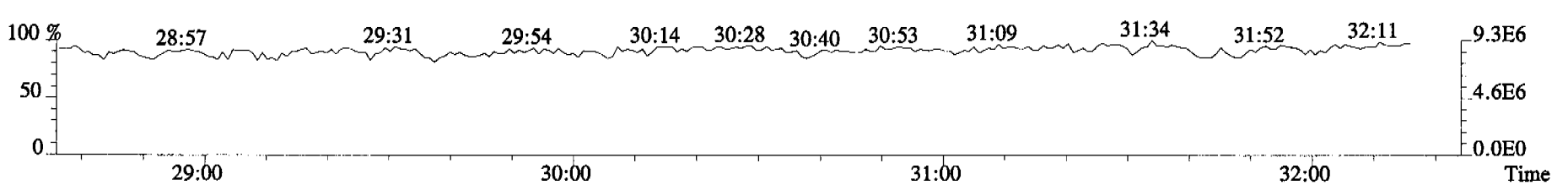
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



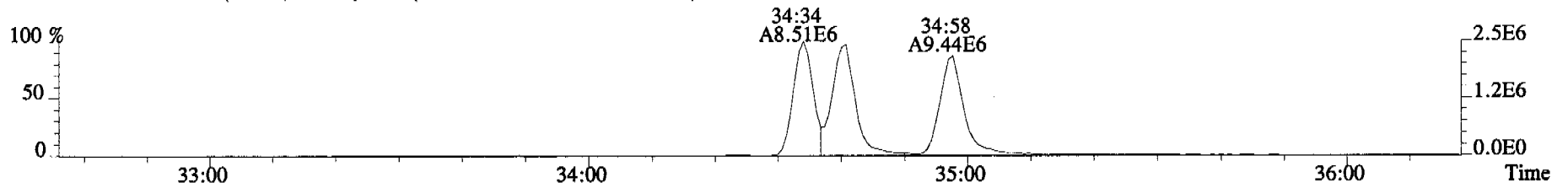
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



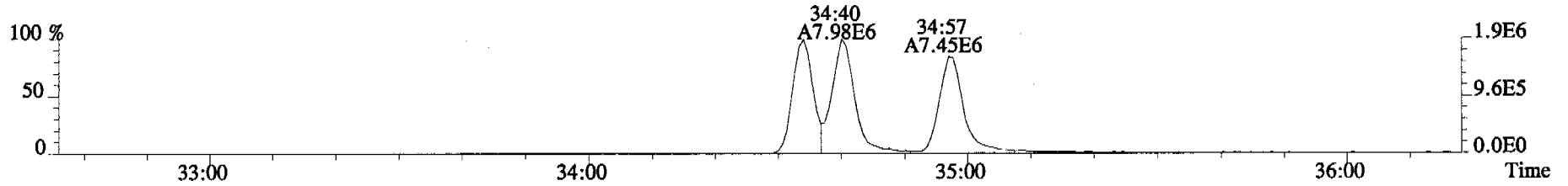
366.9792 S:5 F:2



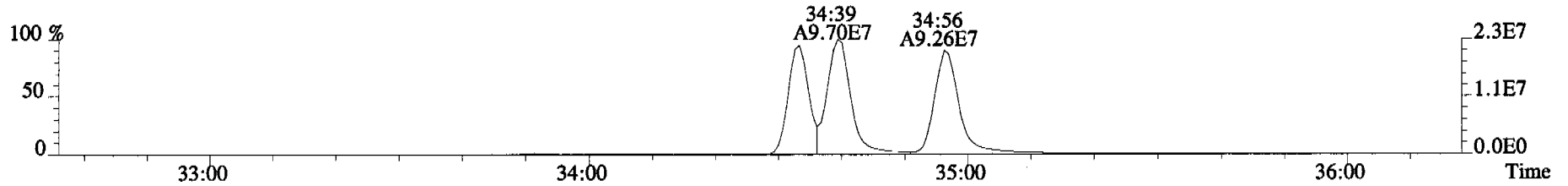
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



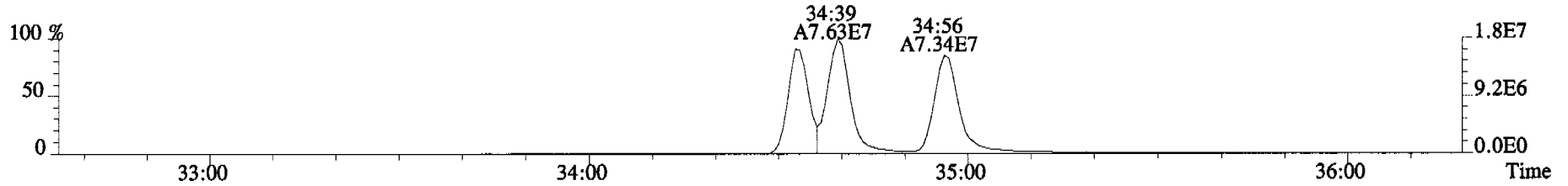
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



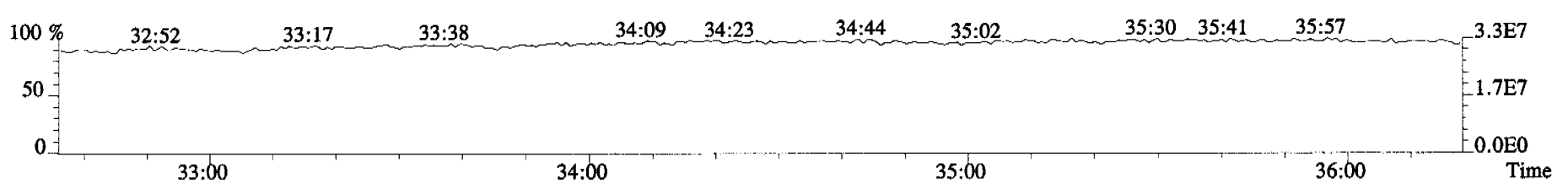
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



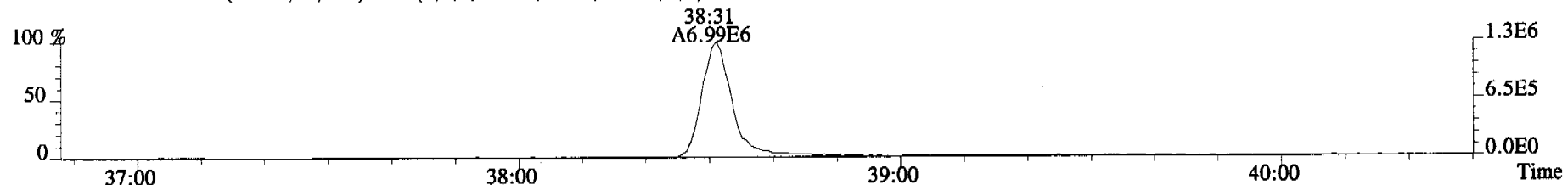
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



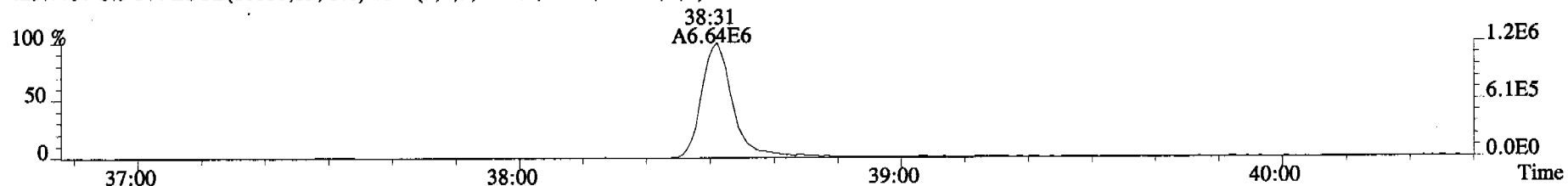
380.9760 S:5 F:3



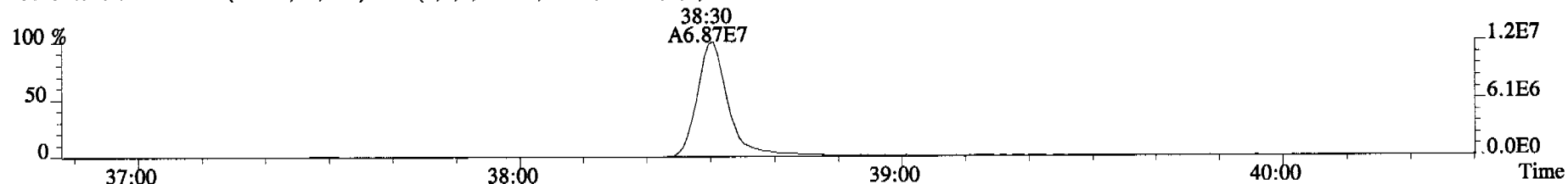
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



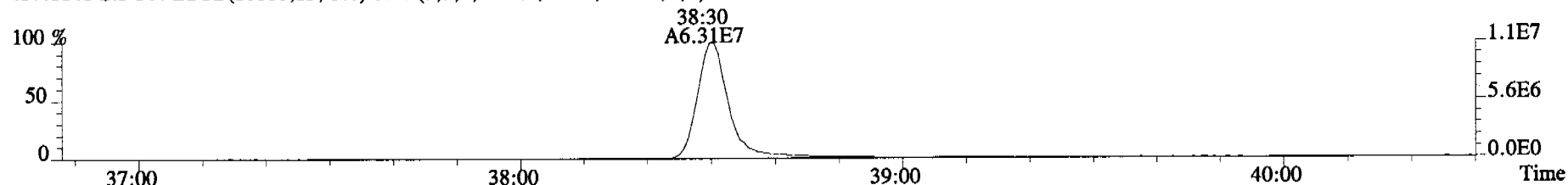
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



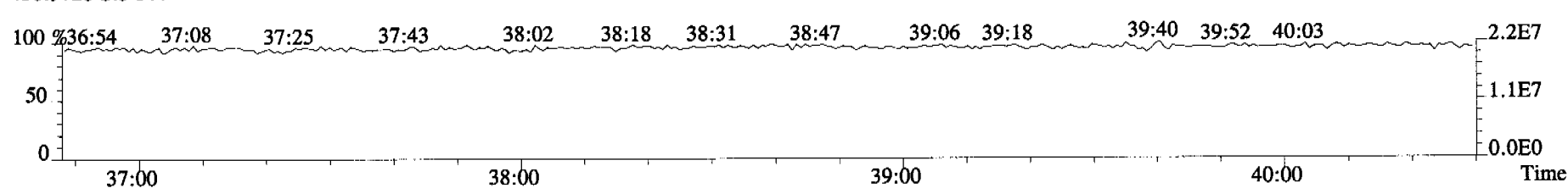
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



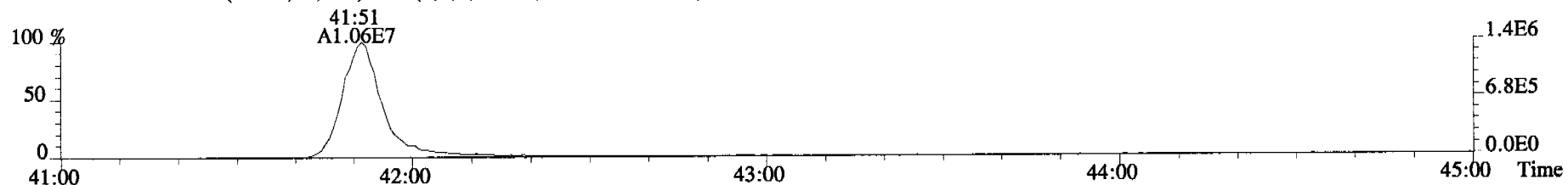
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



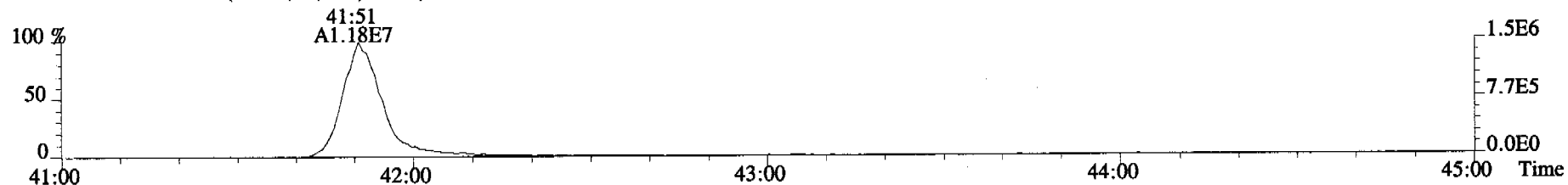
430.9728 S:5 F:4



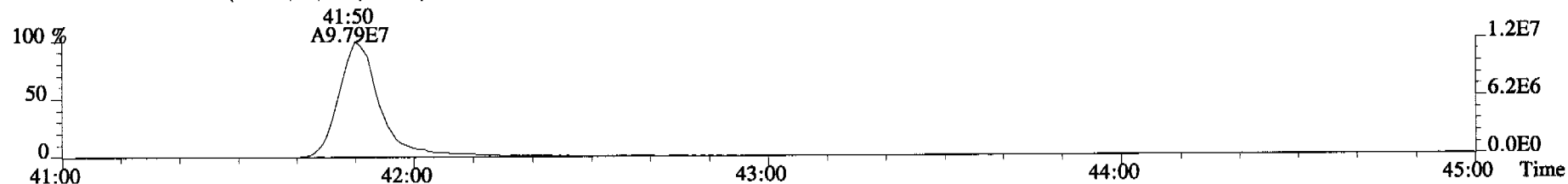
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



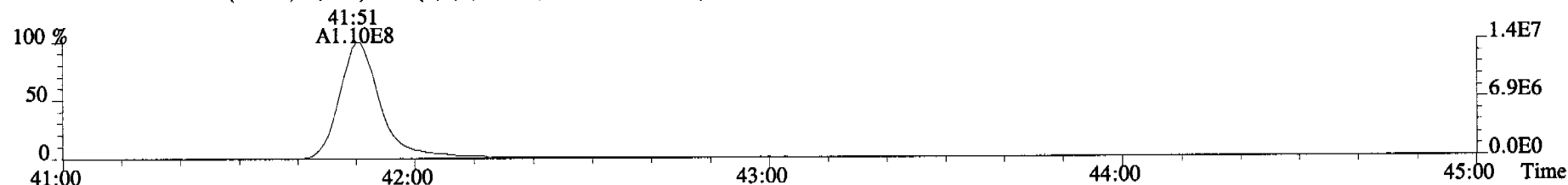
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



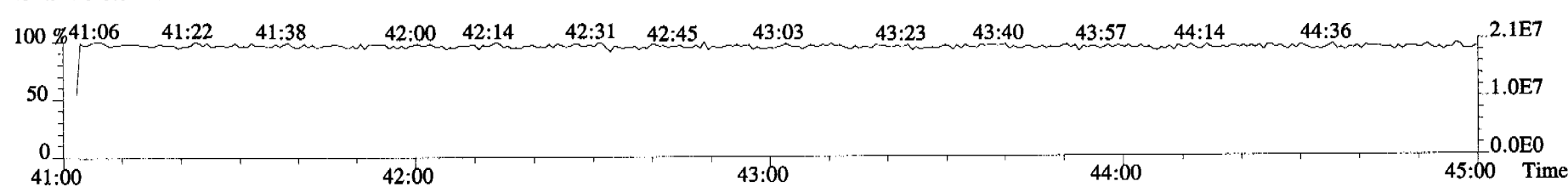
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



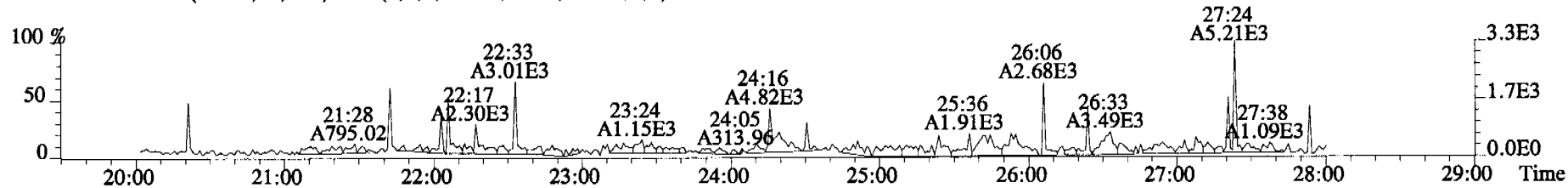
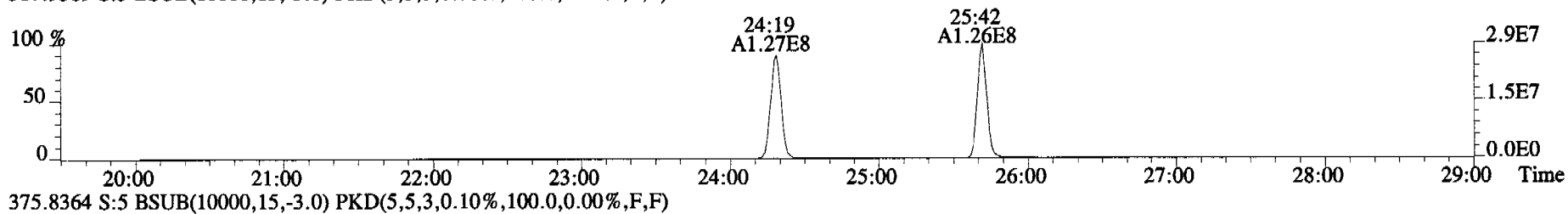
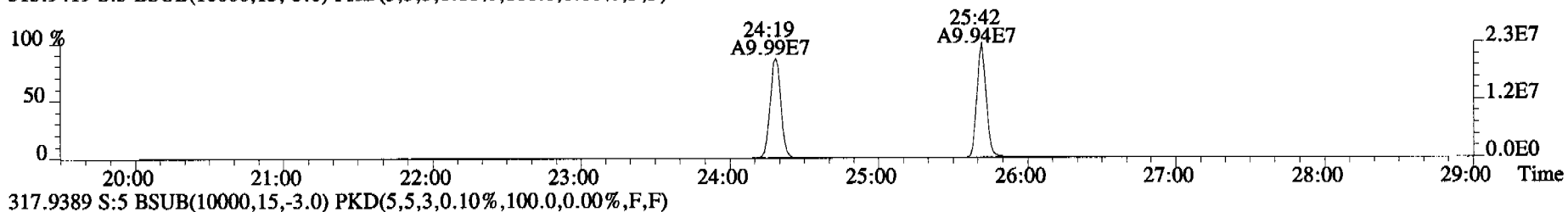
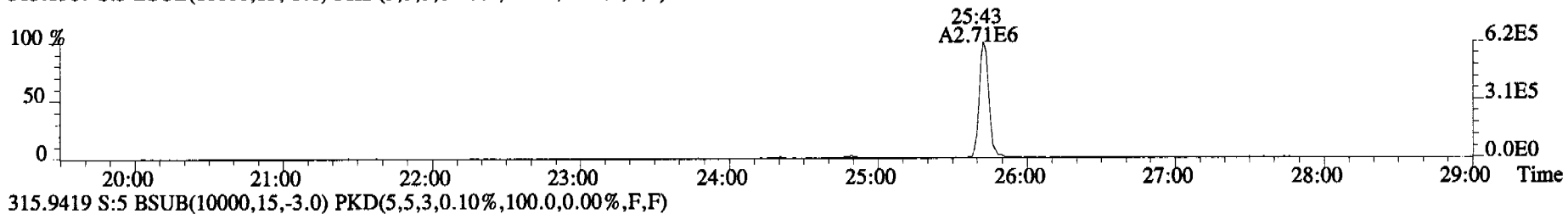
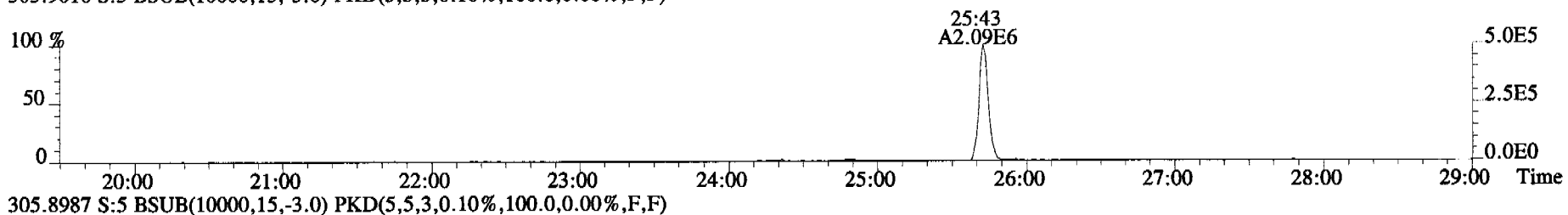
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



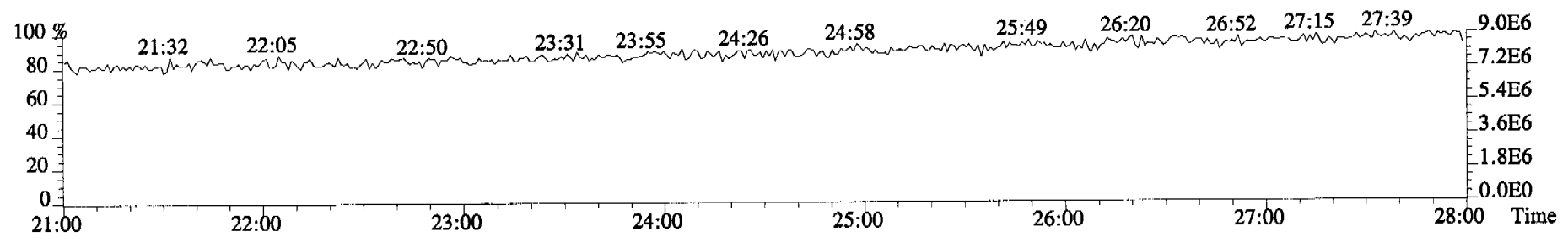
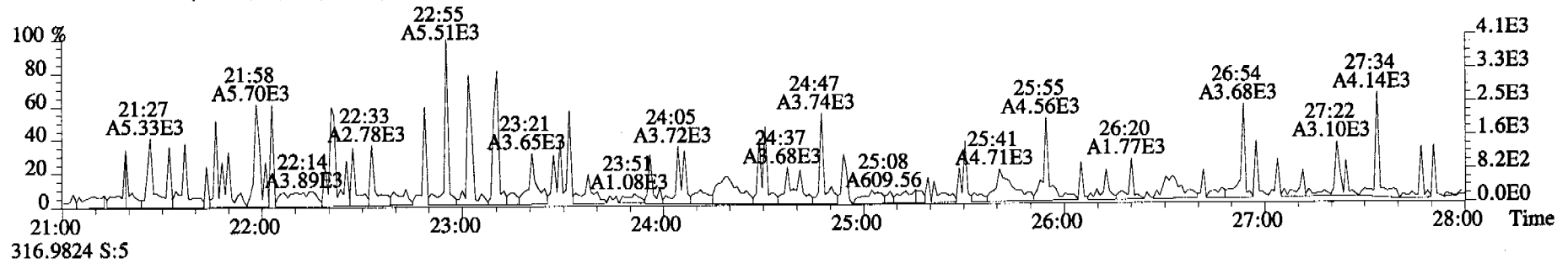
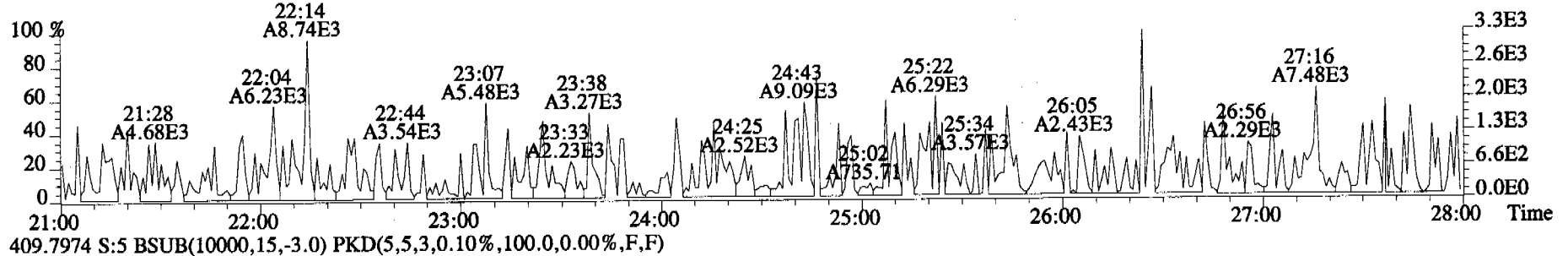
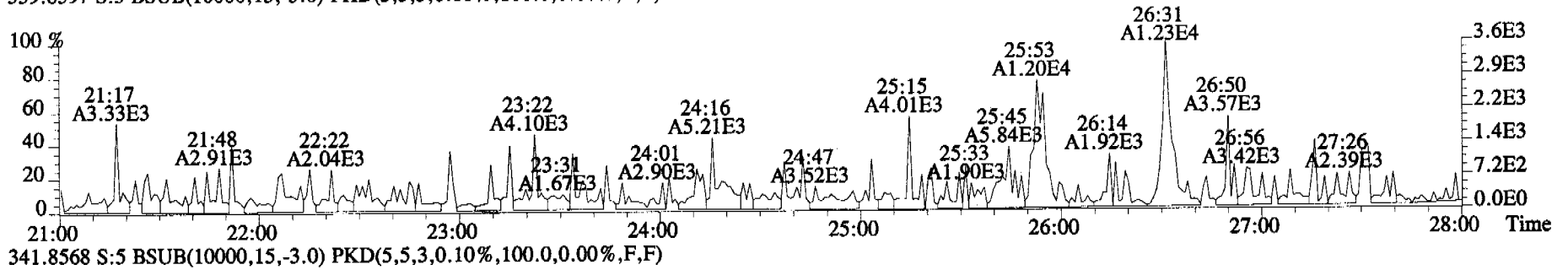
454.9728 S:5 F:5



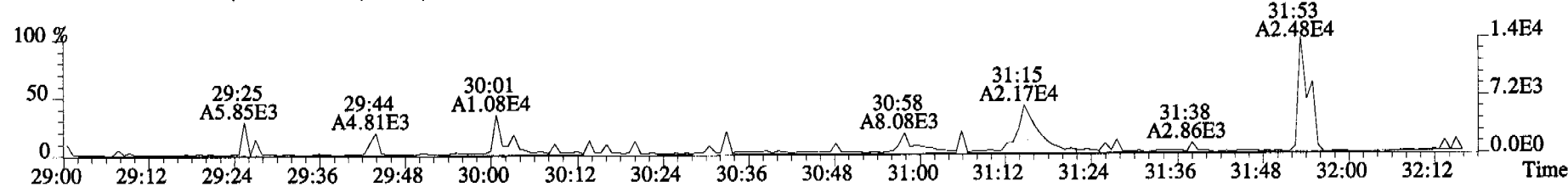
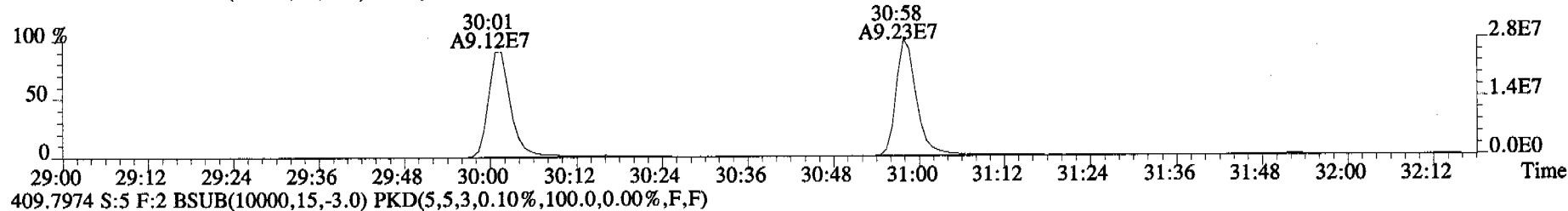
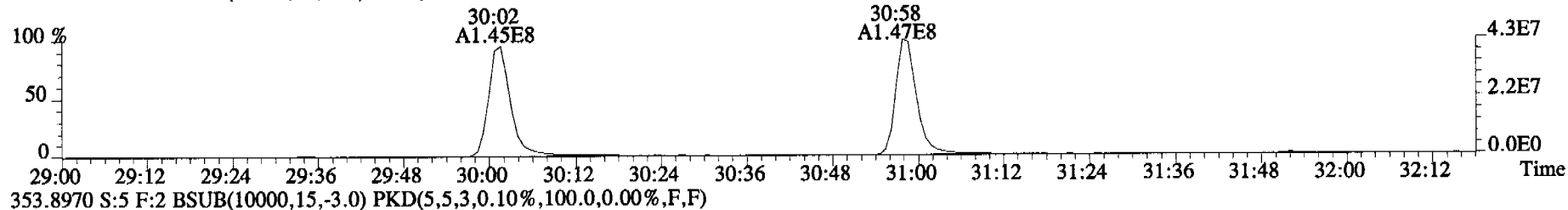
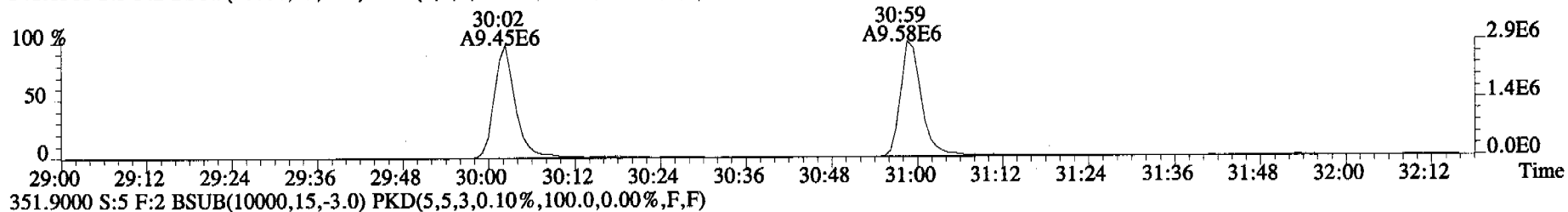
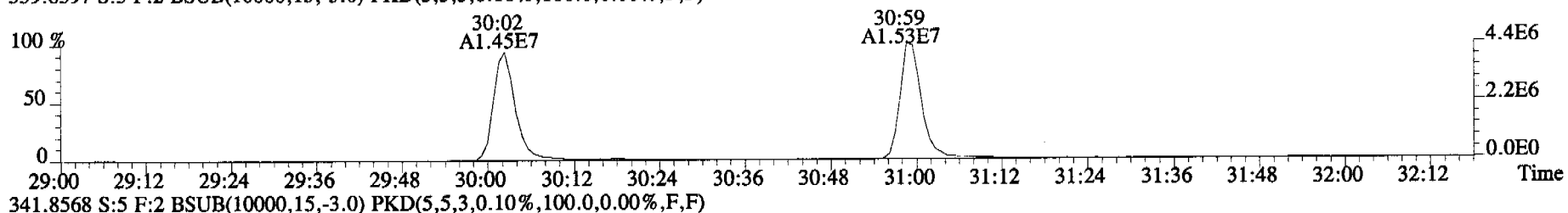
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



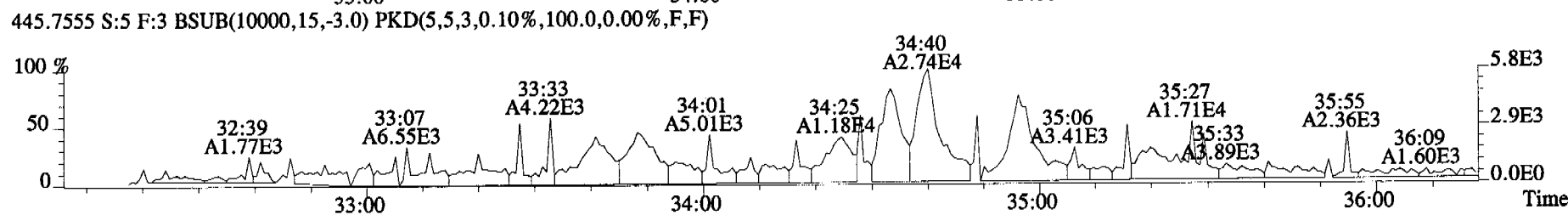
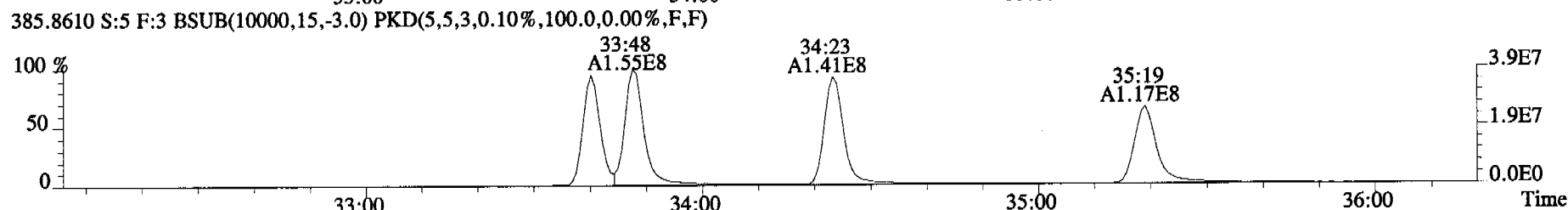
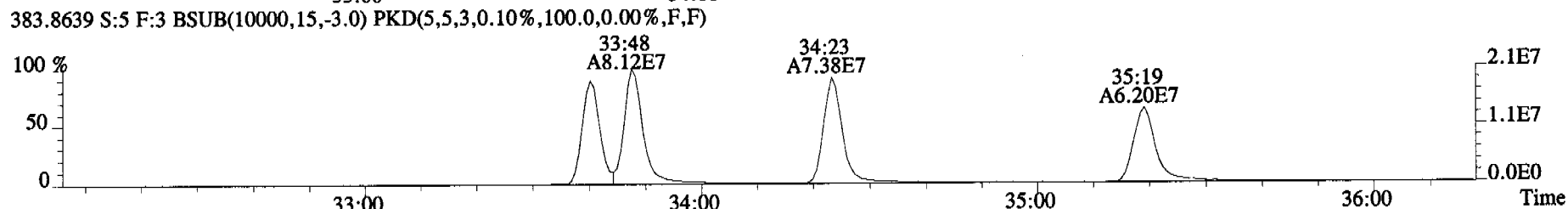
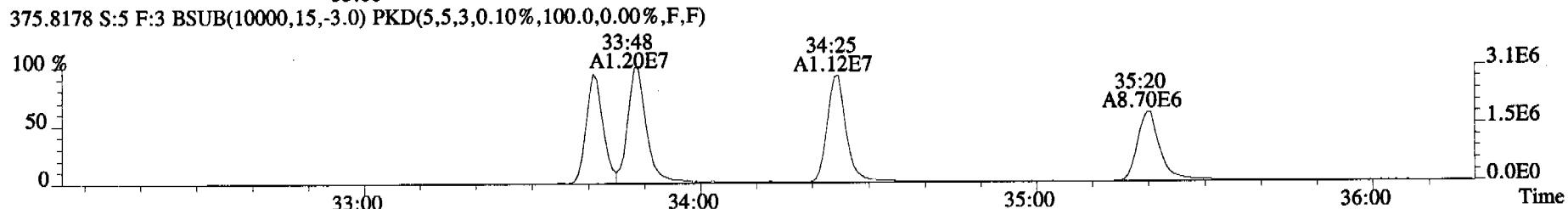
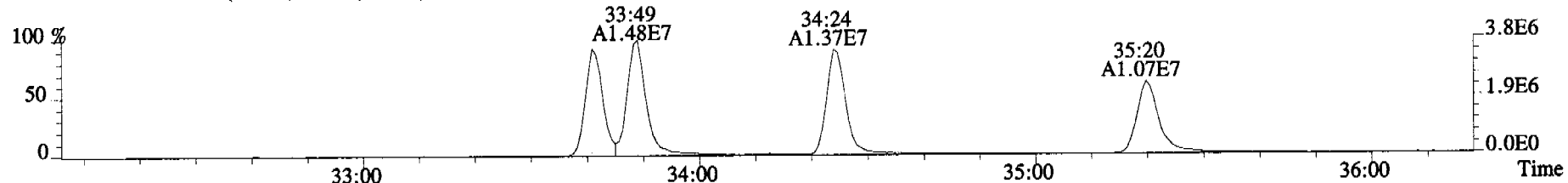
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



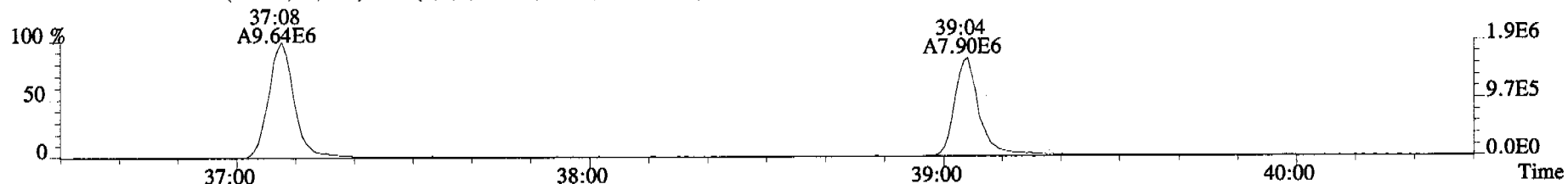
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



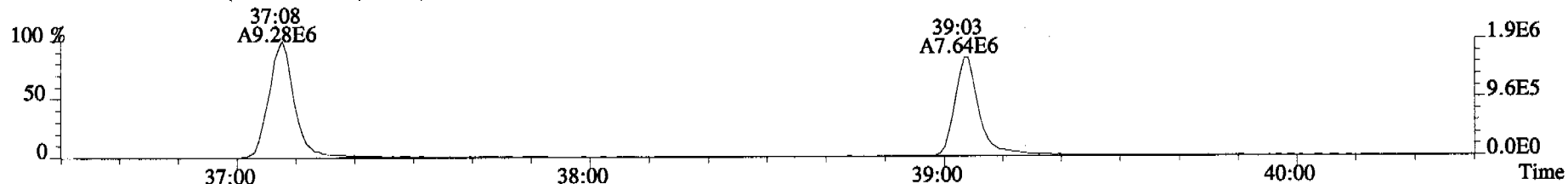
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



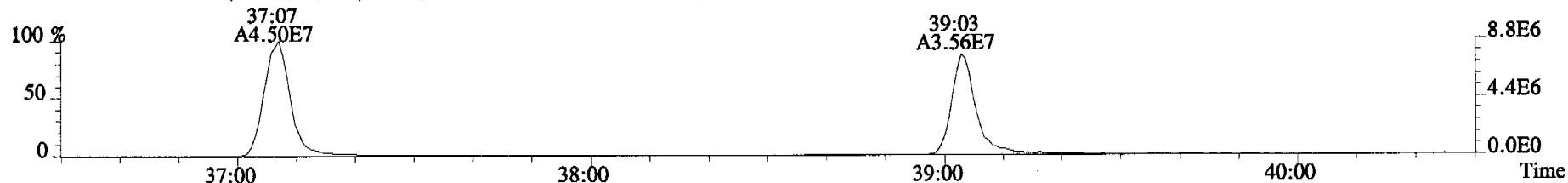
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



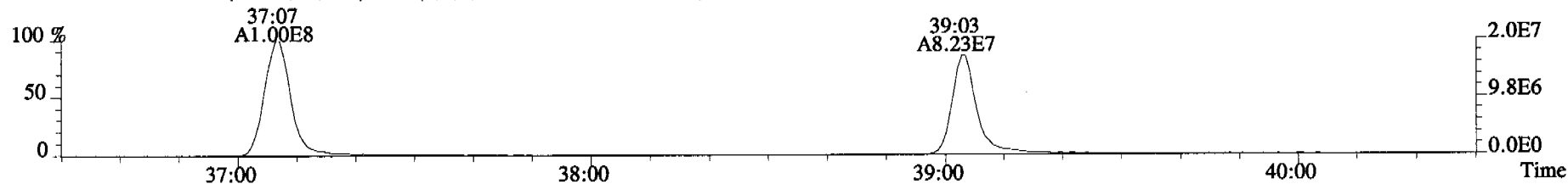
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



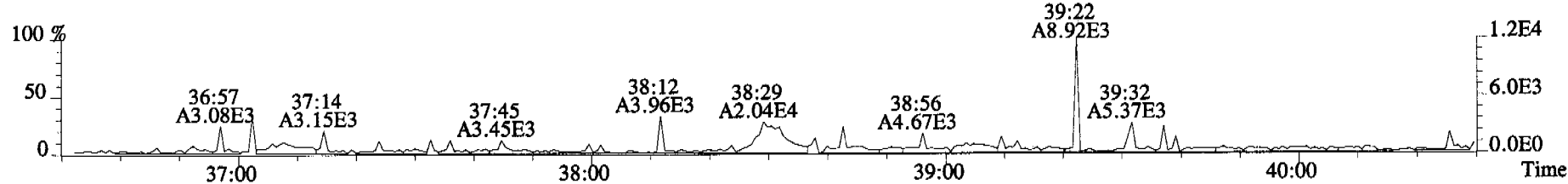
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



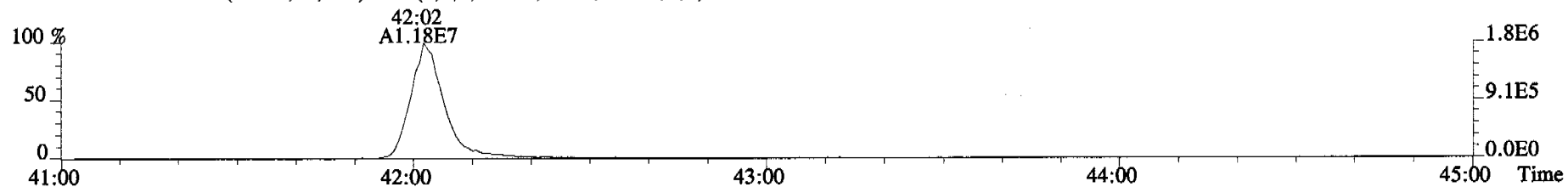
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



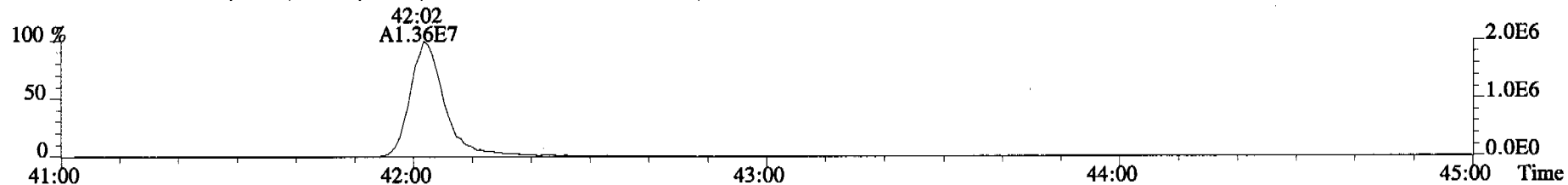
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



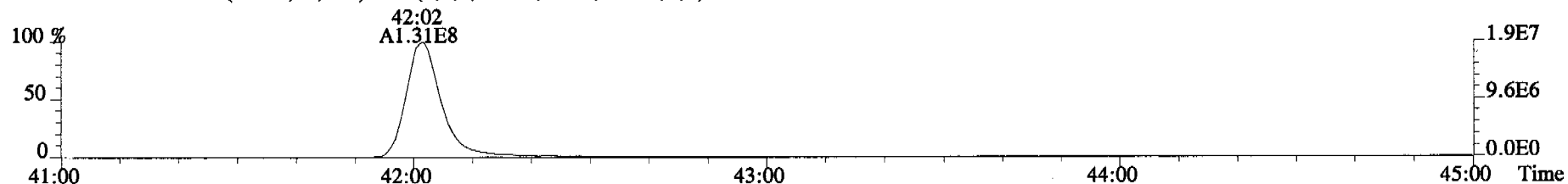
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



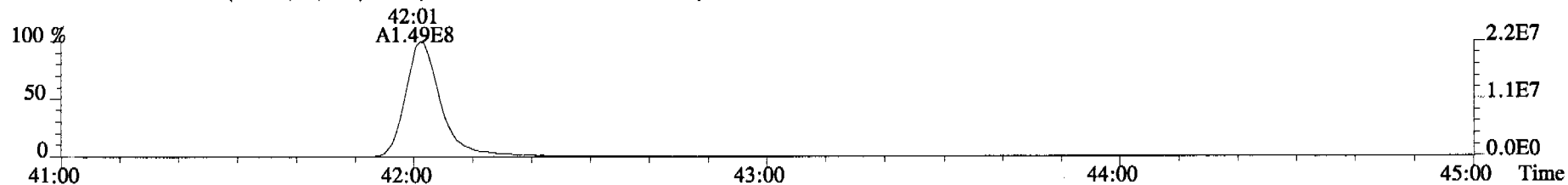
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



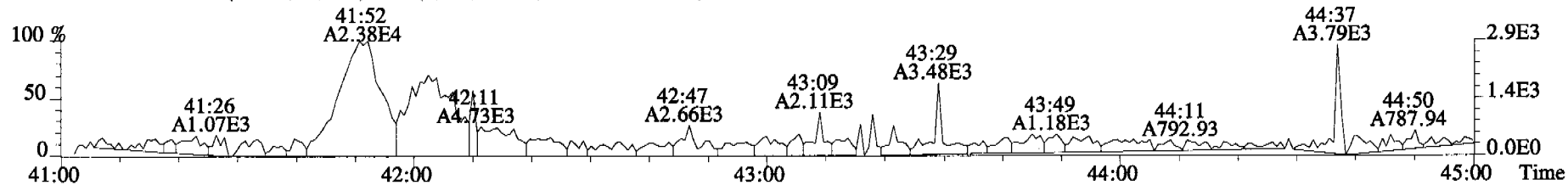
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



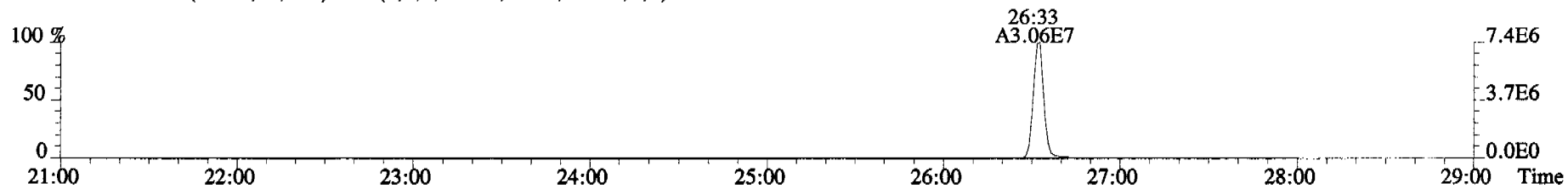
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



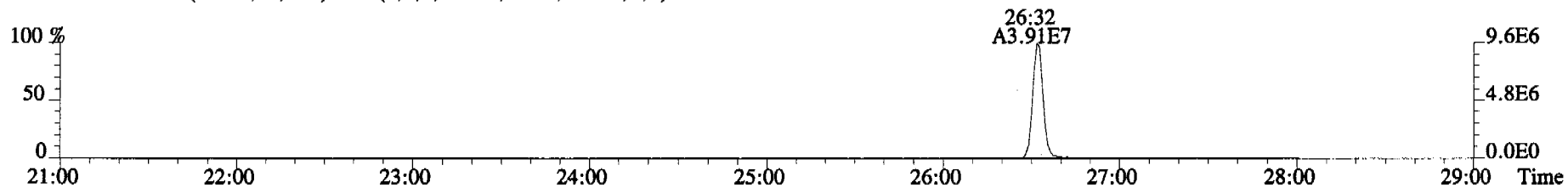
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



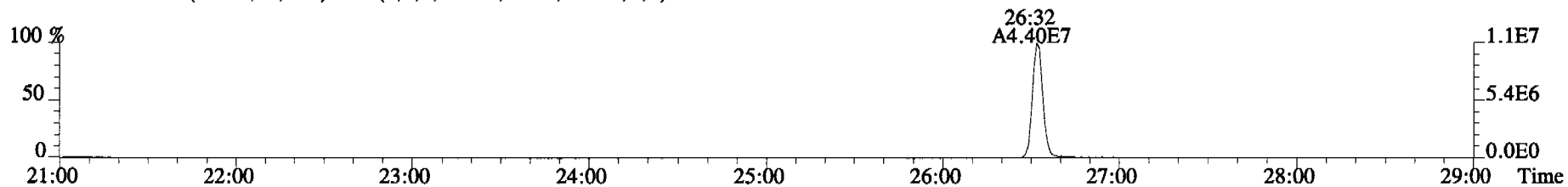
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



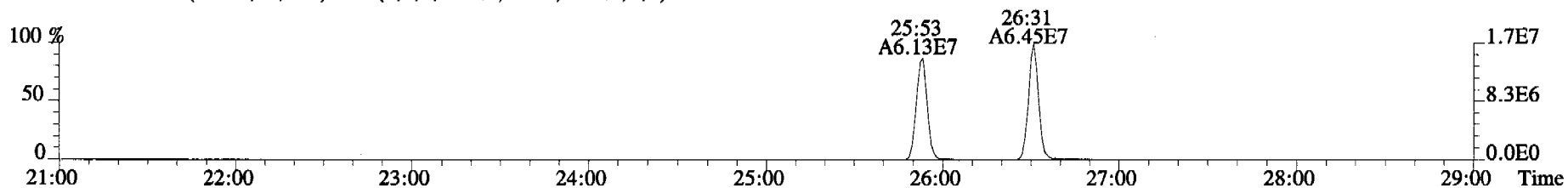
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



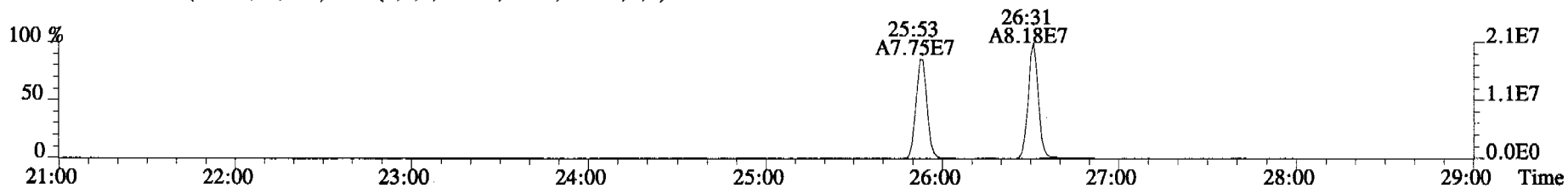
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



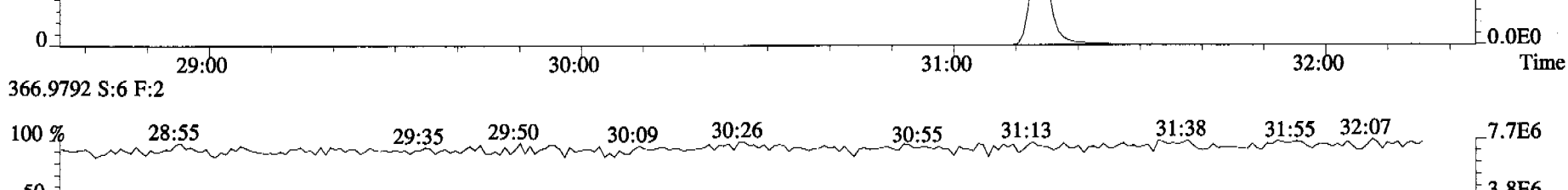
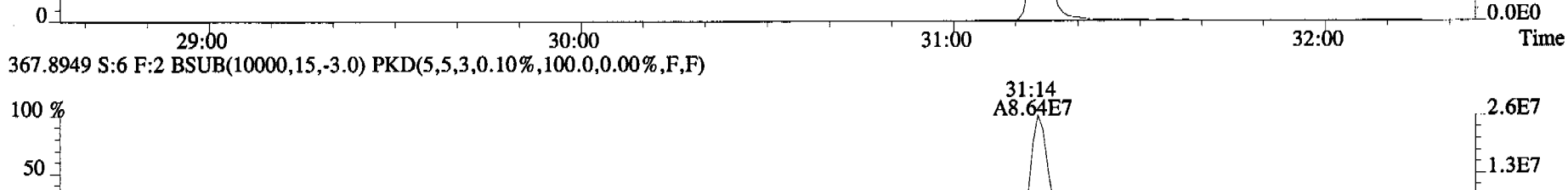
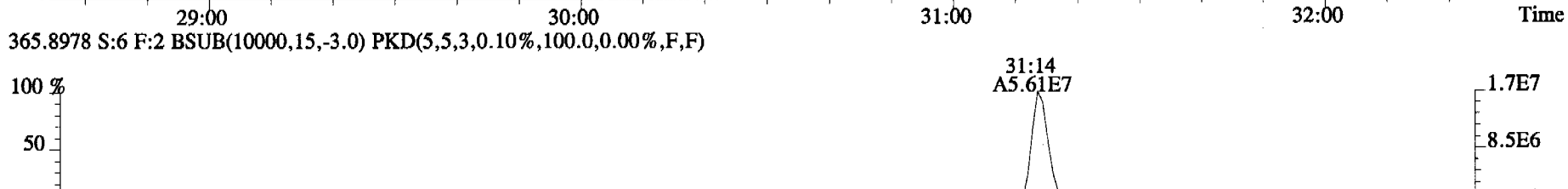
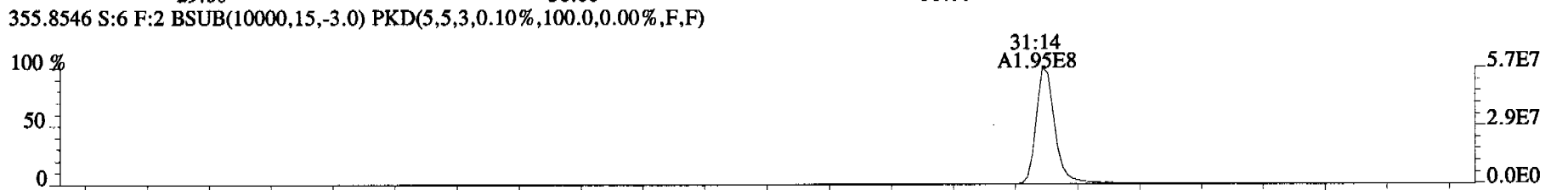
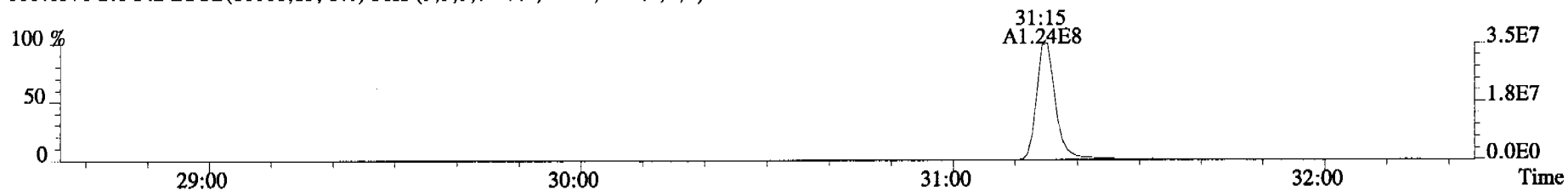
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



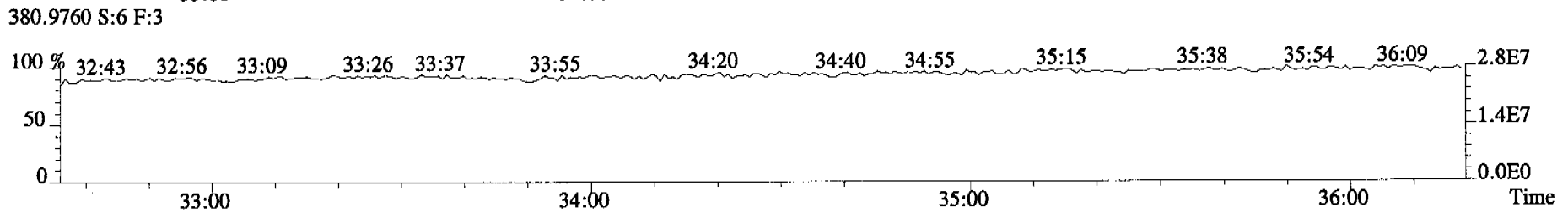
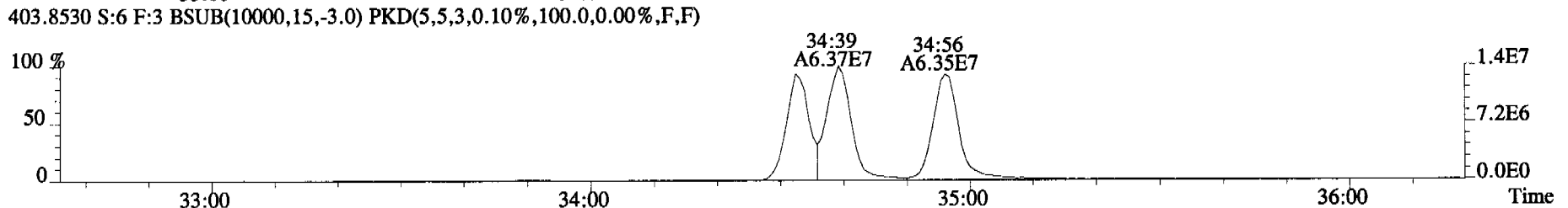
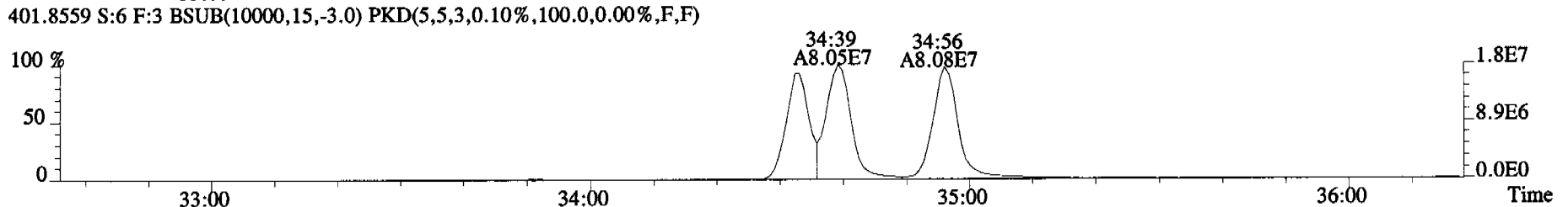
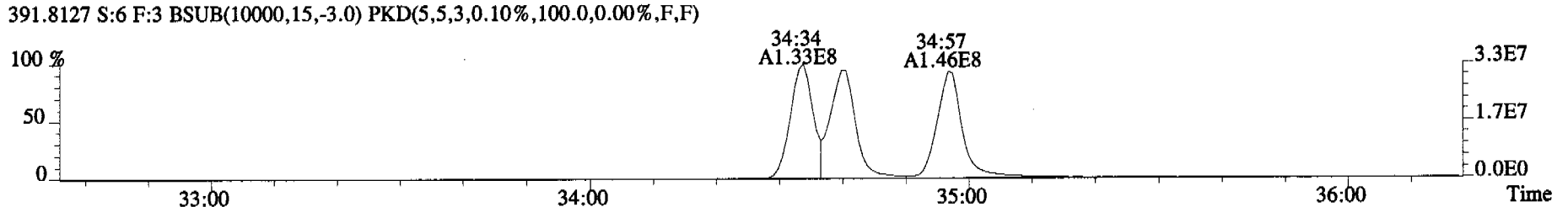
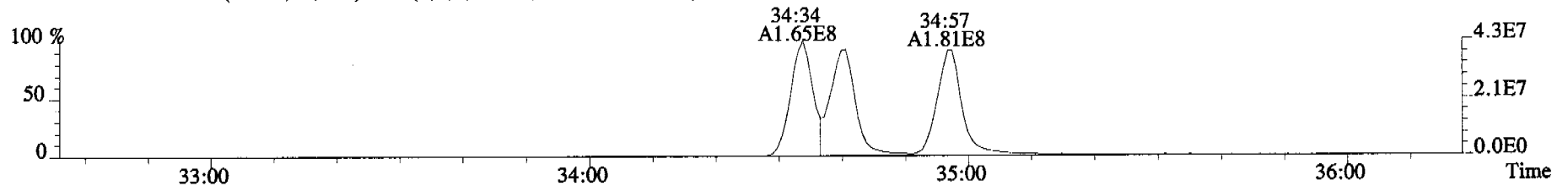
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



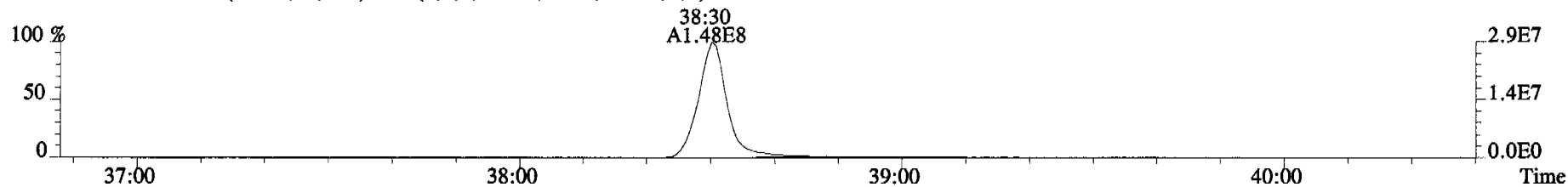
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



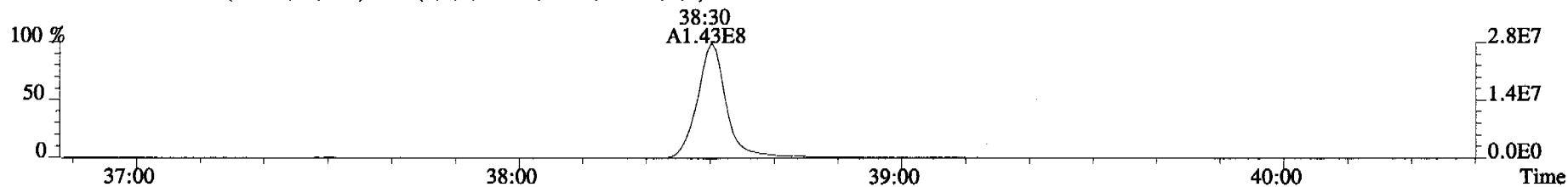
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



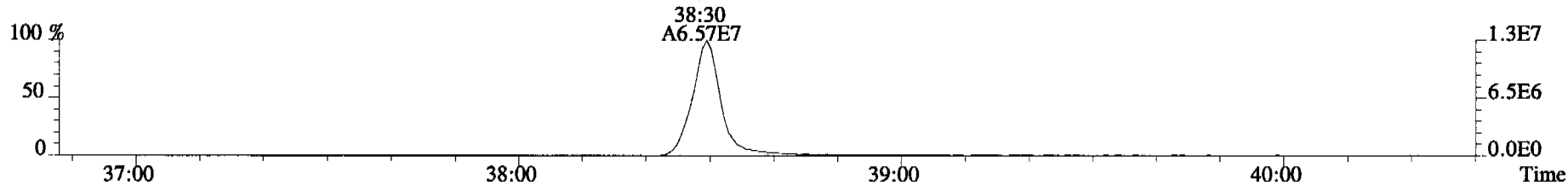
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



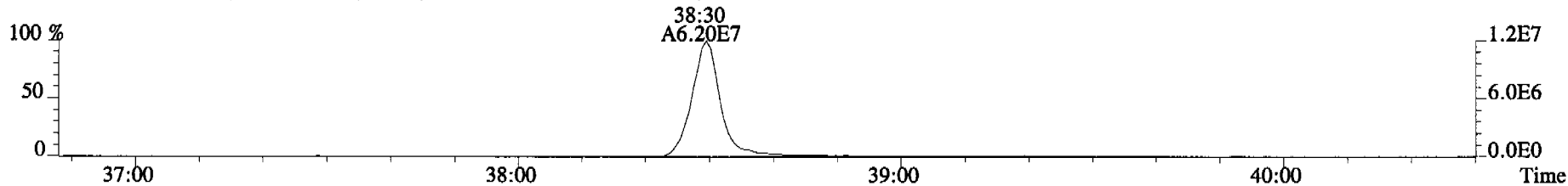
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



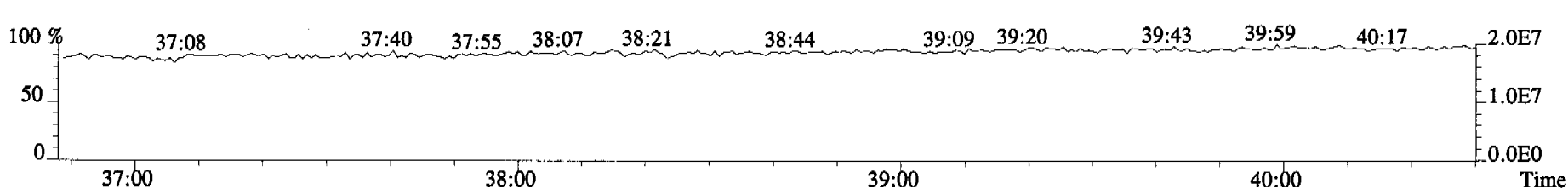
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



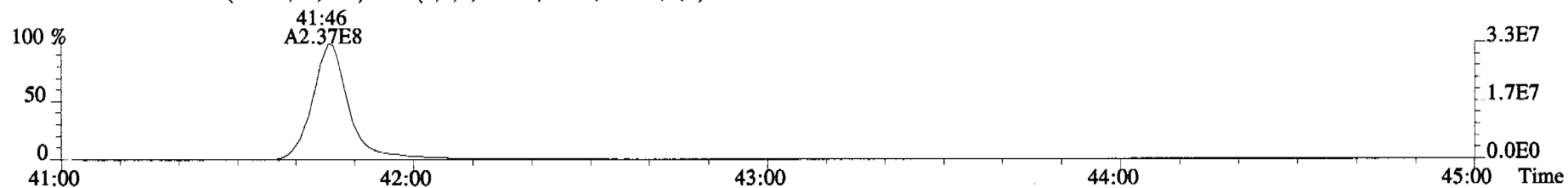
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



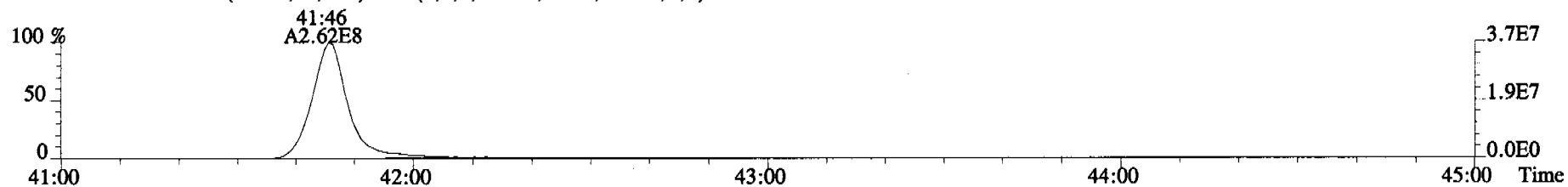
430.9728 S:6 F:4



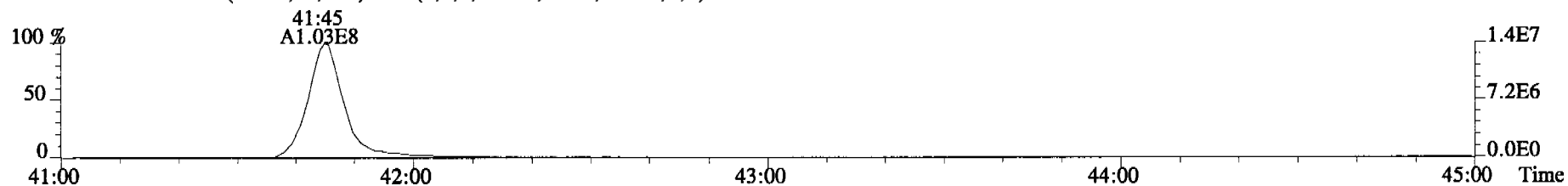
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Aita Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



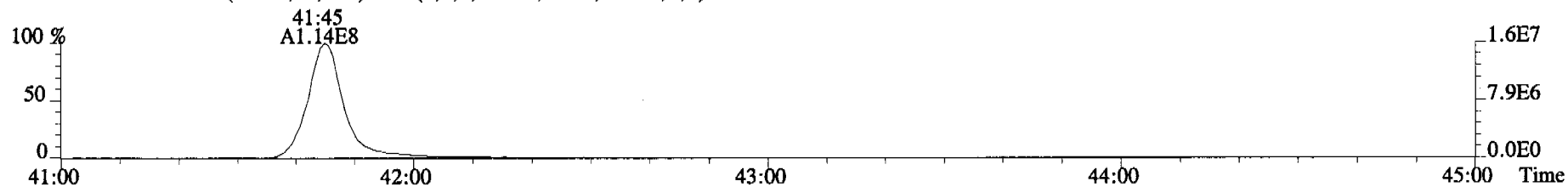
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



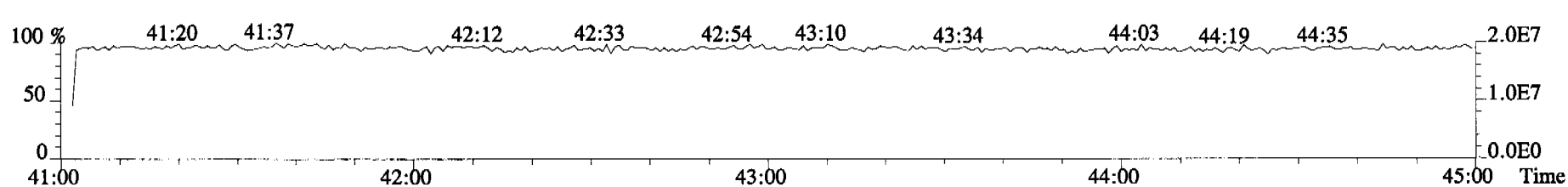
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



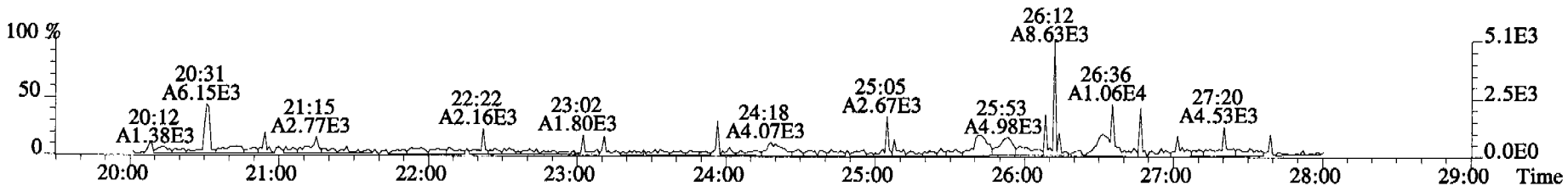
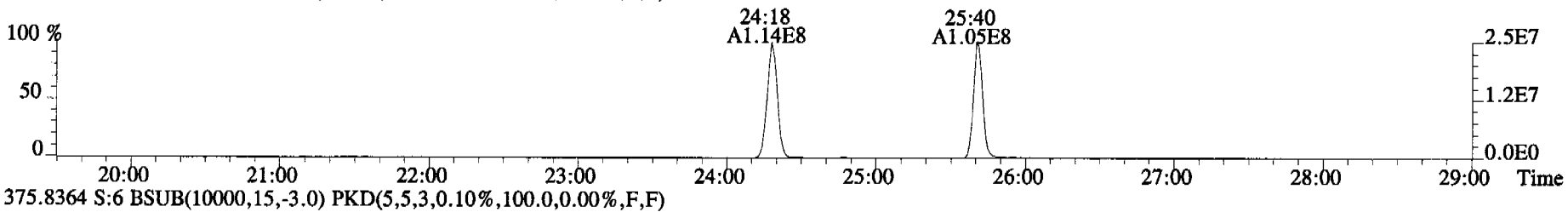
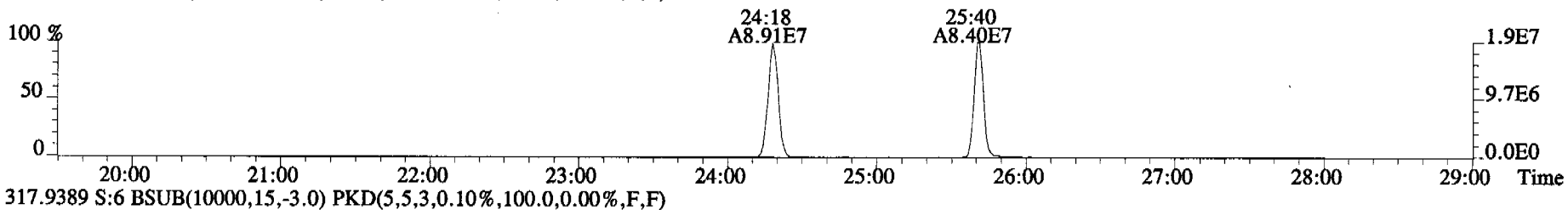
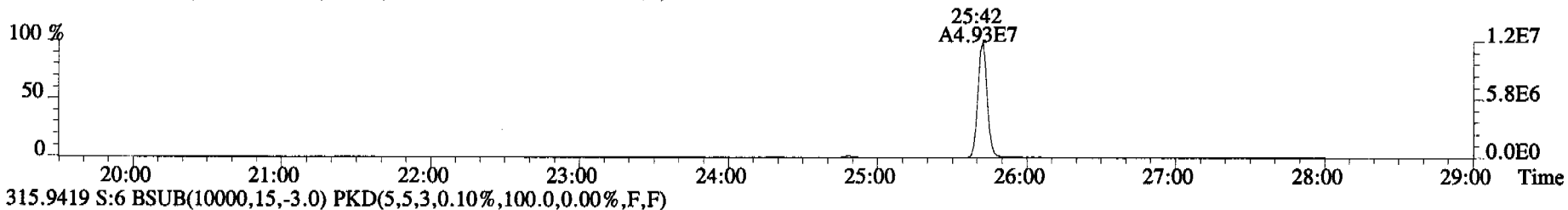
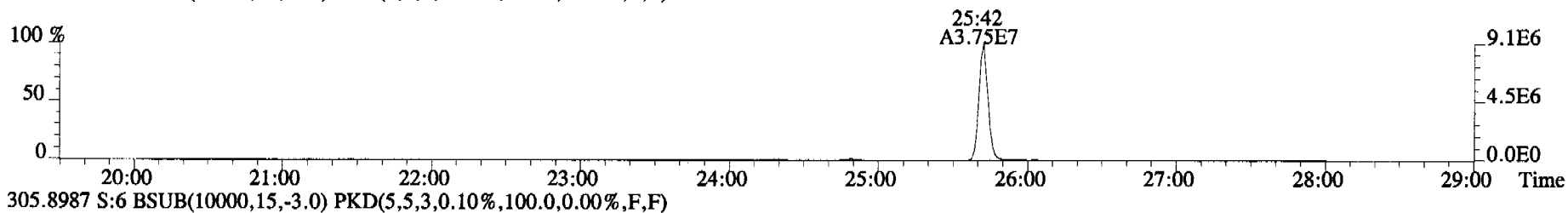
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



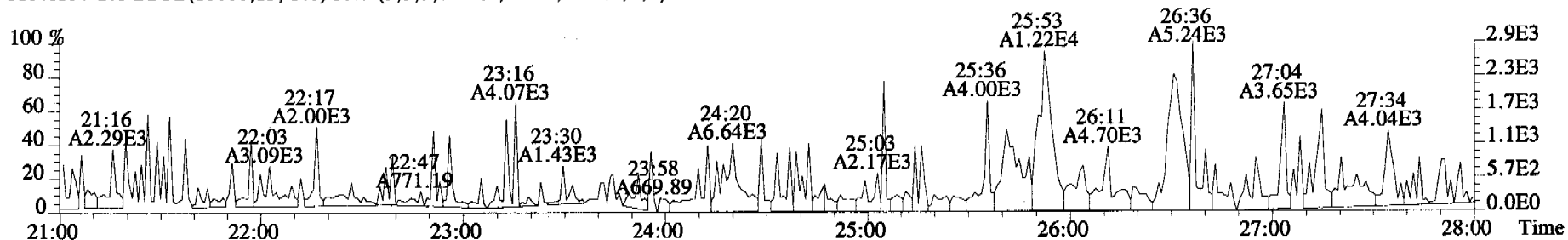
454.9728 S:6 F:5



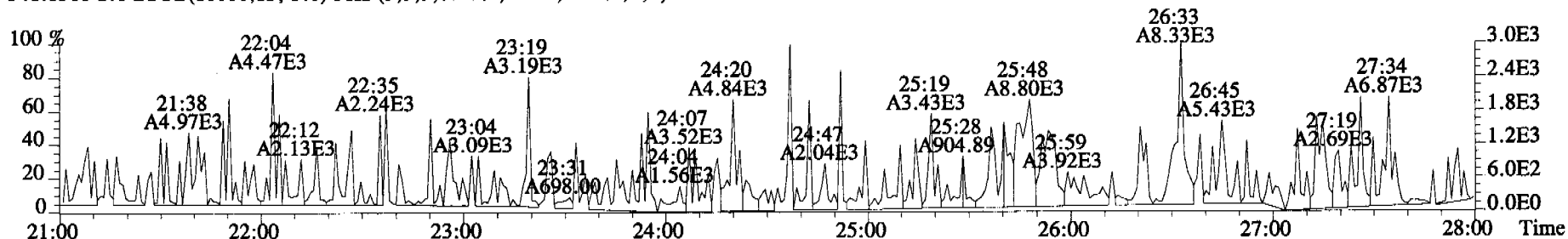
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



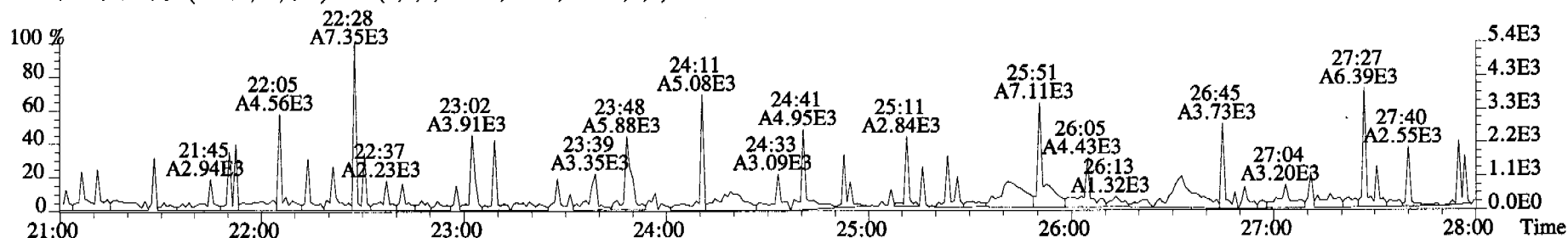
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



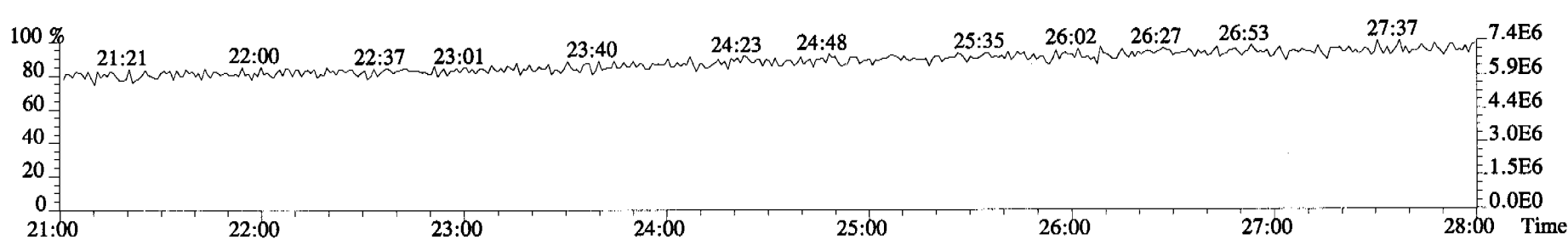
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



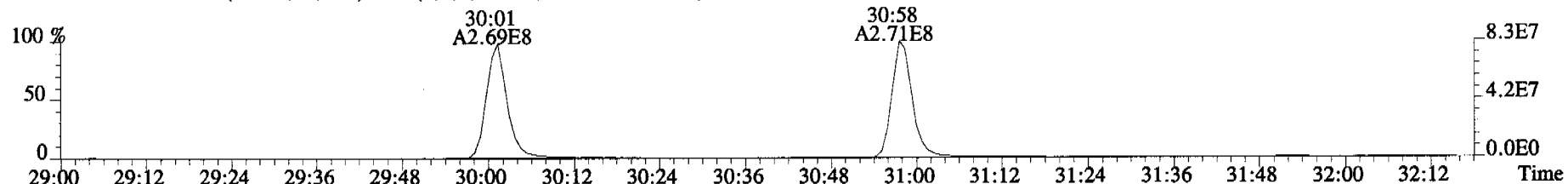
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



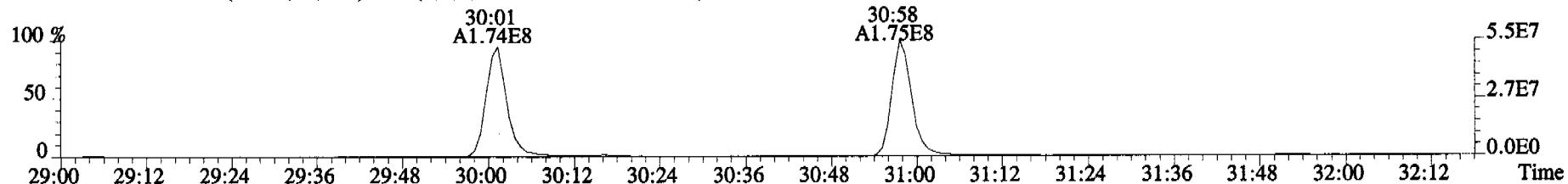
316.9824 S:6



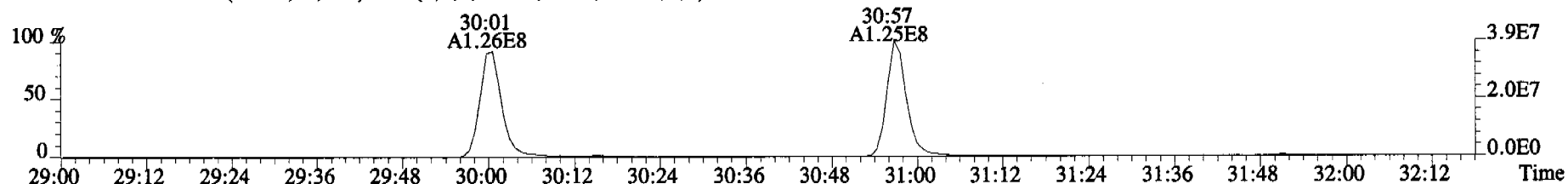
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



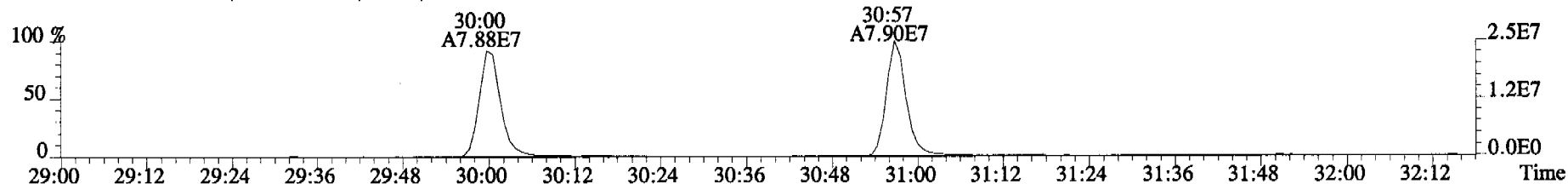
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



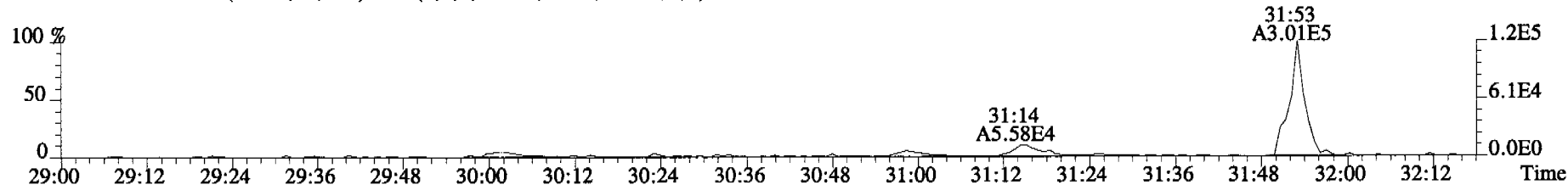
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



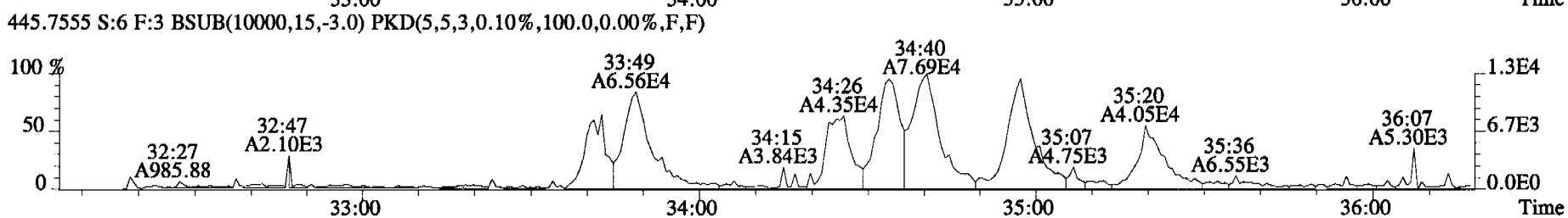
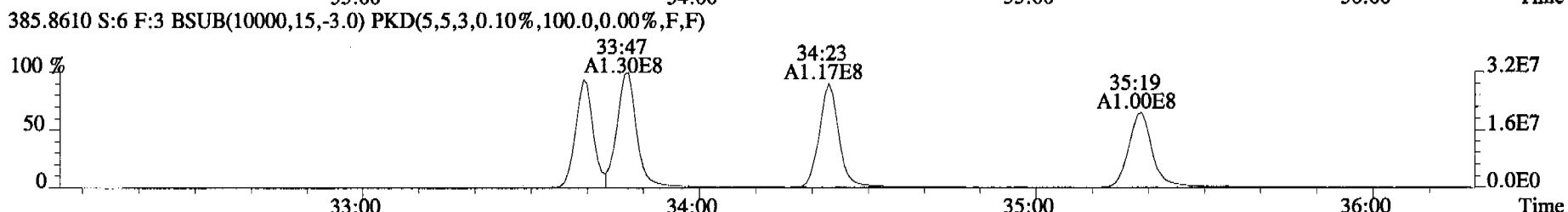
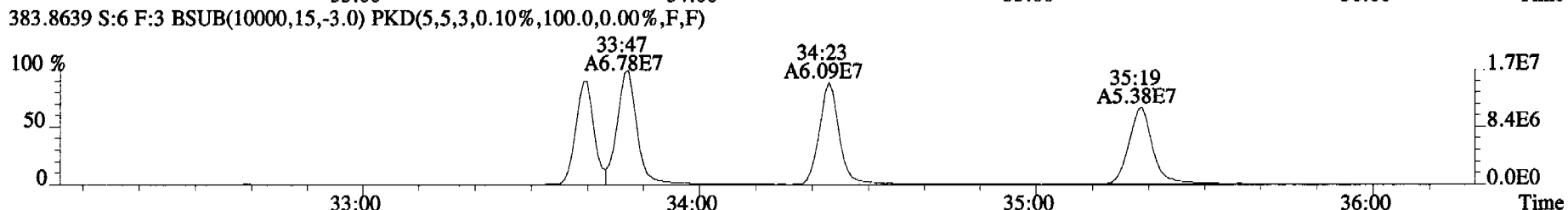
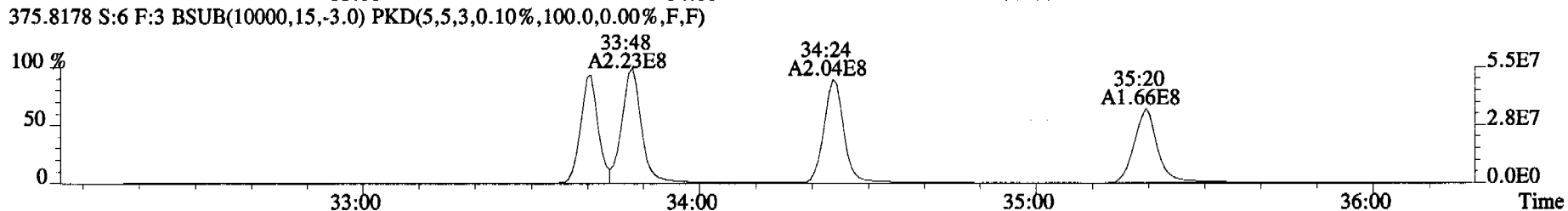
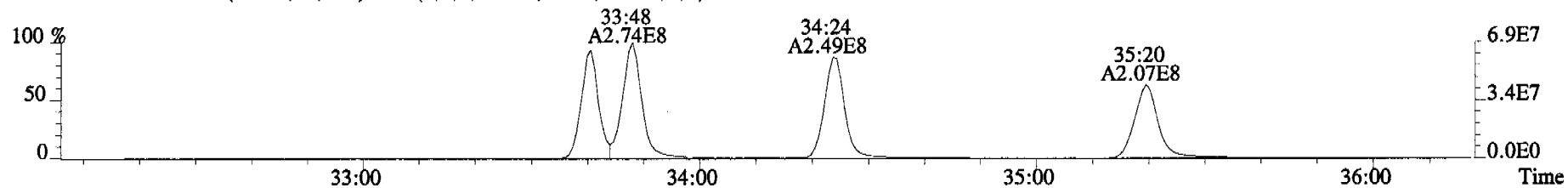
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



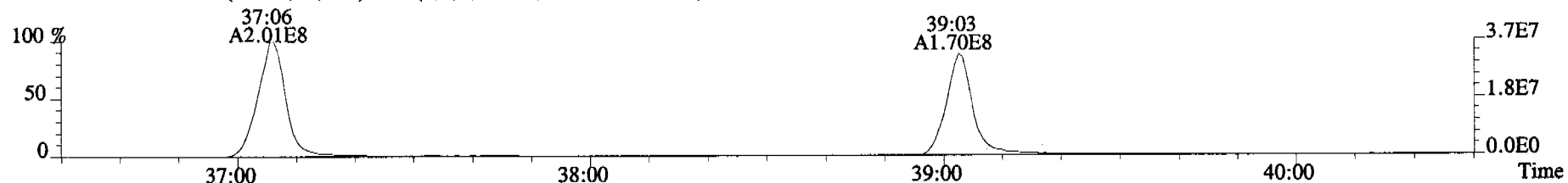
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



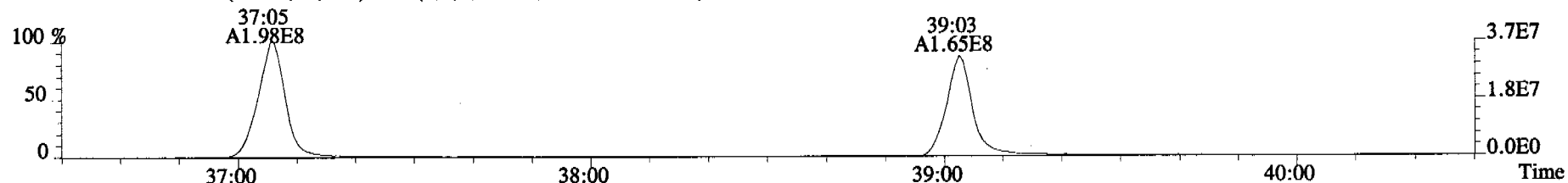
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



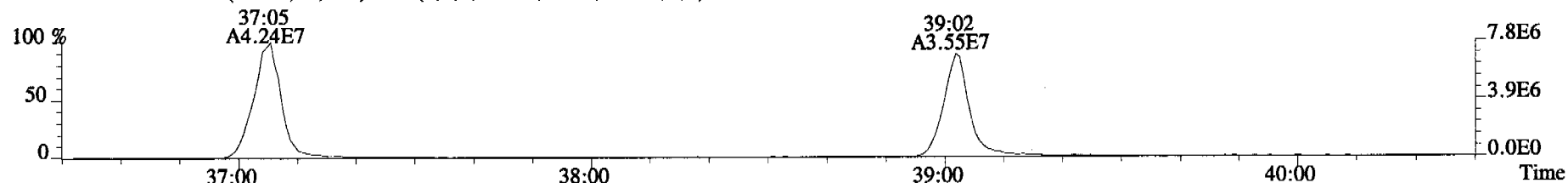
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



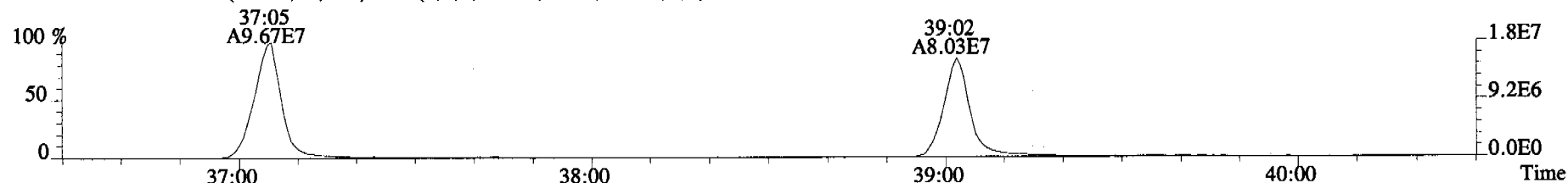
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



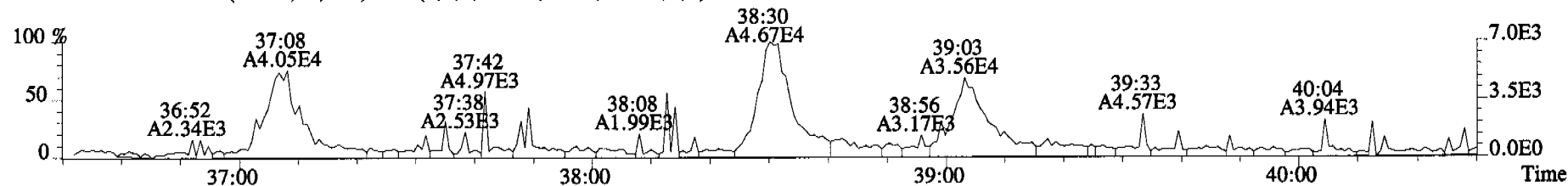
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



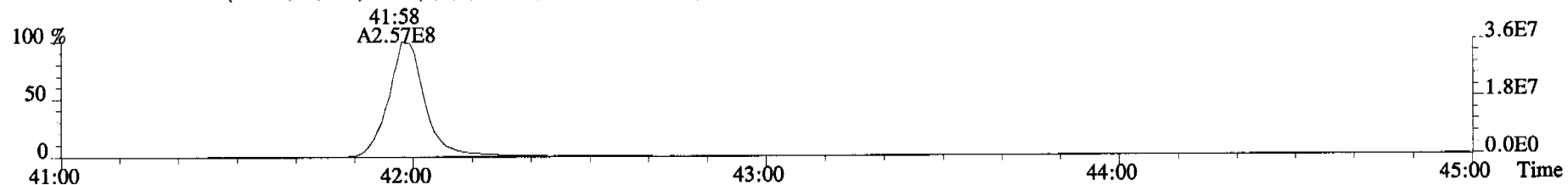
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



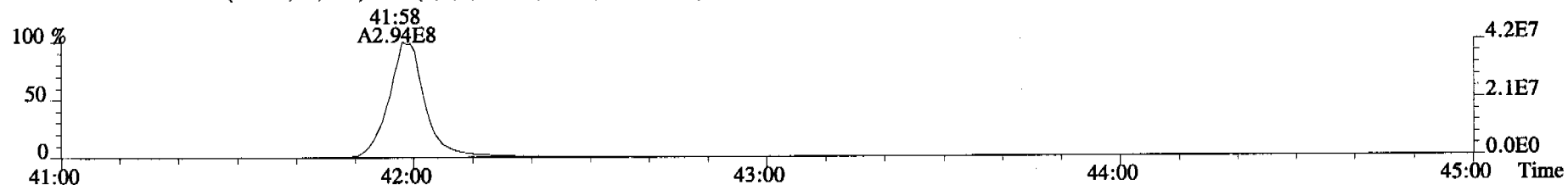
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



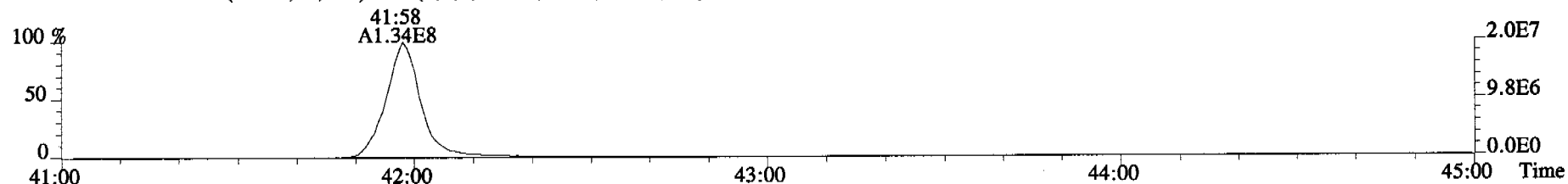
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 0601101 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



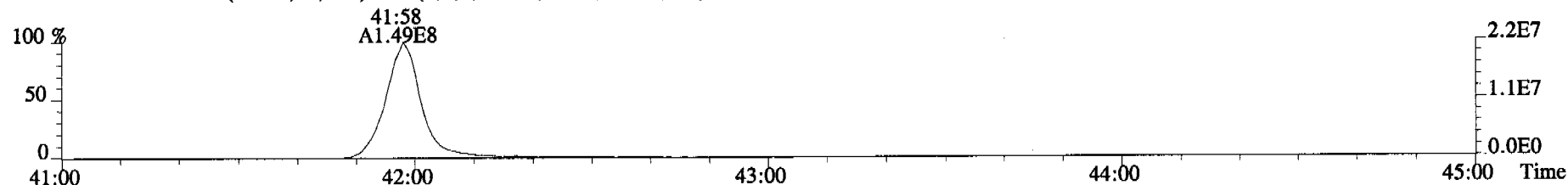
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



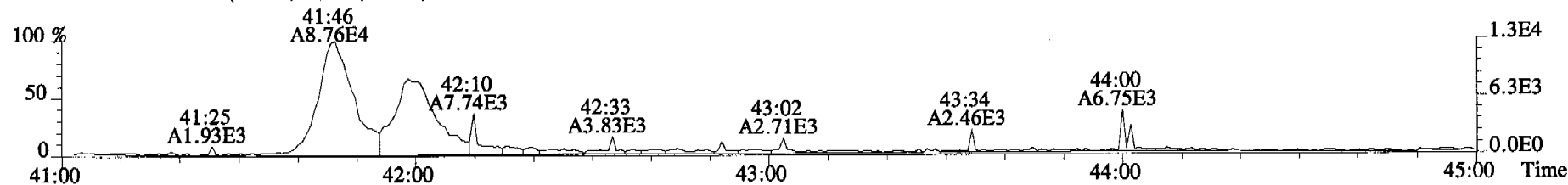
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



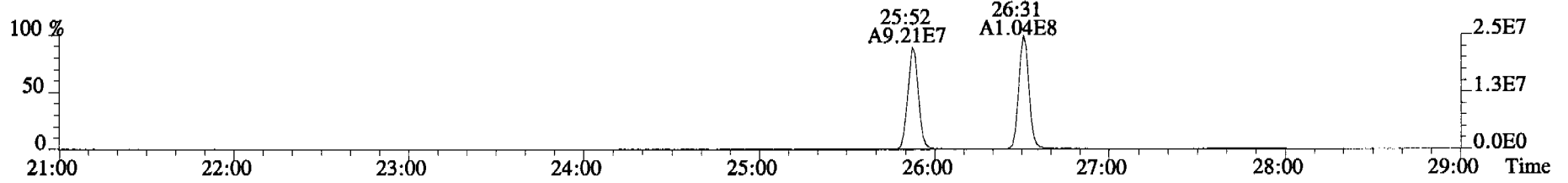
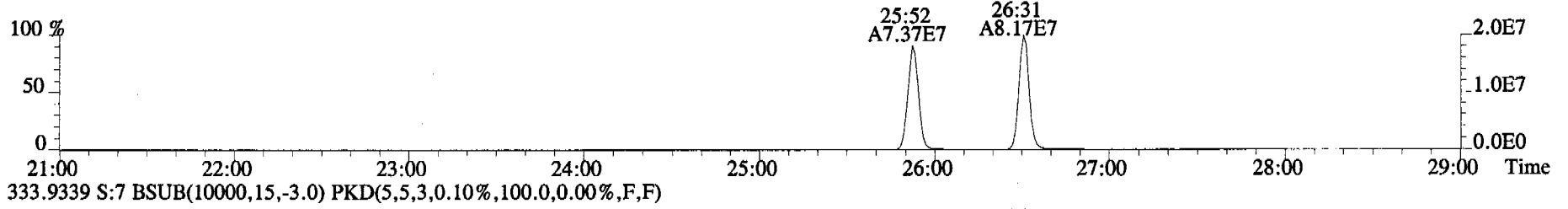
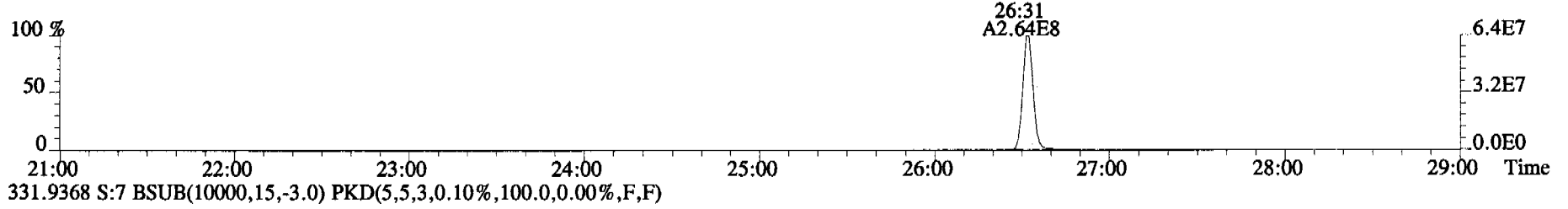
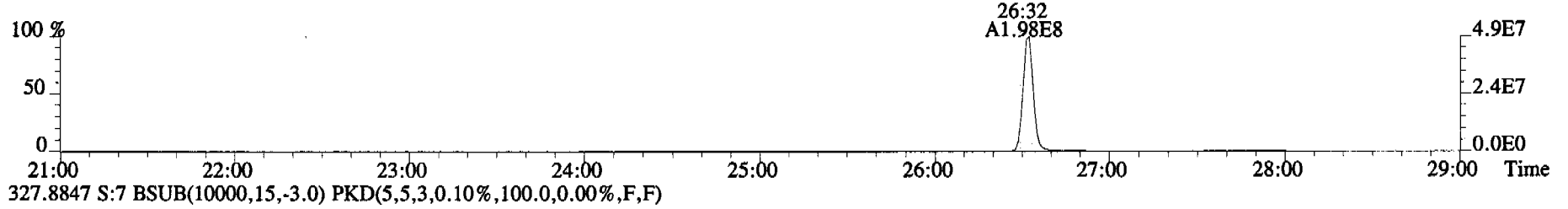
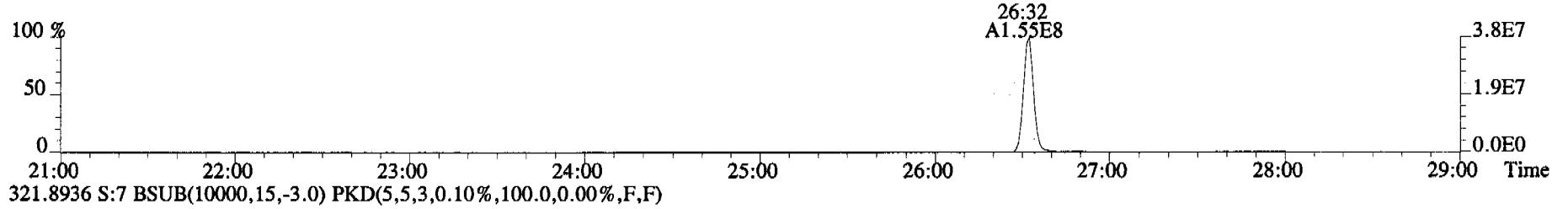
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



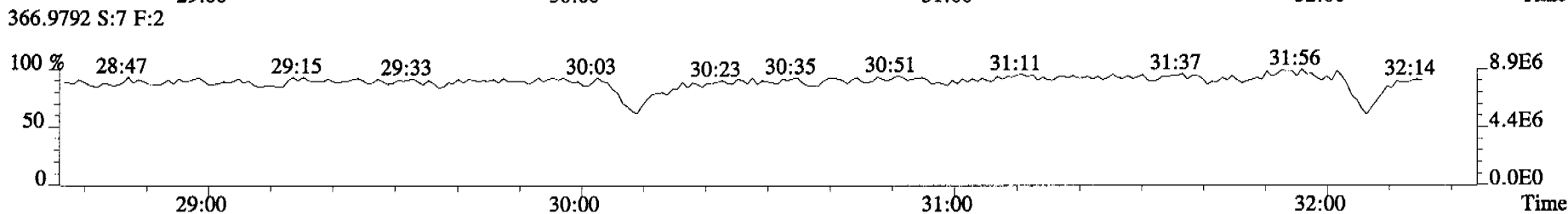
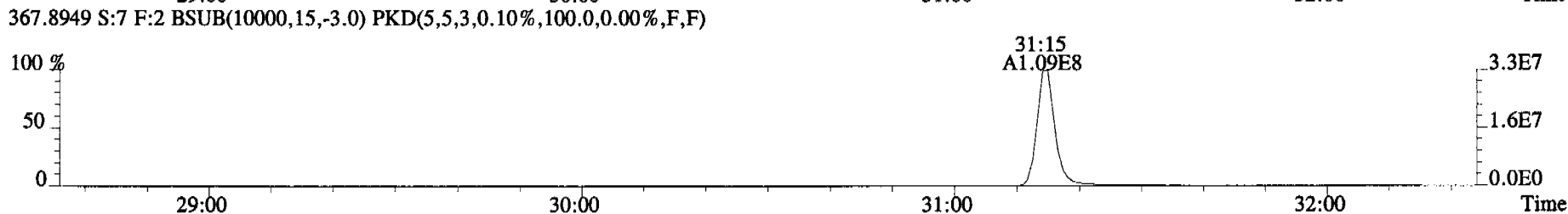
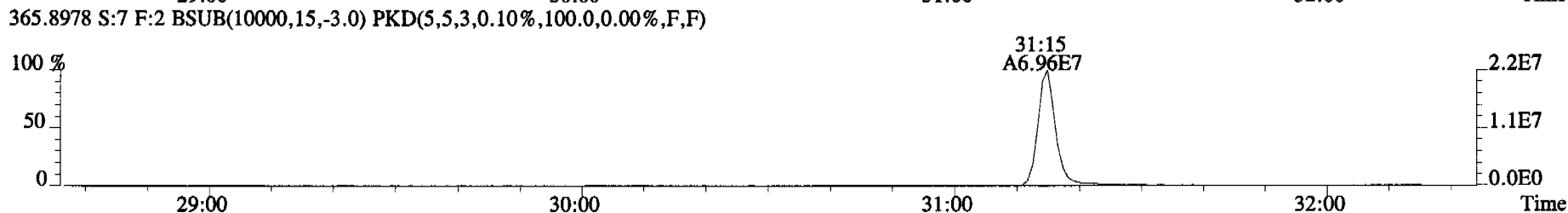
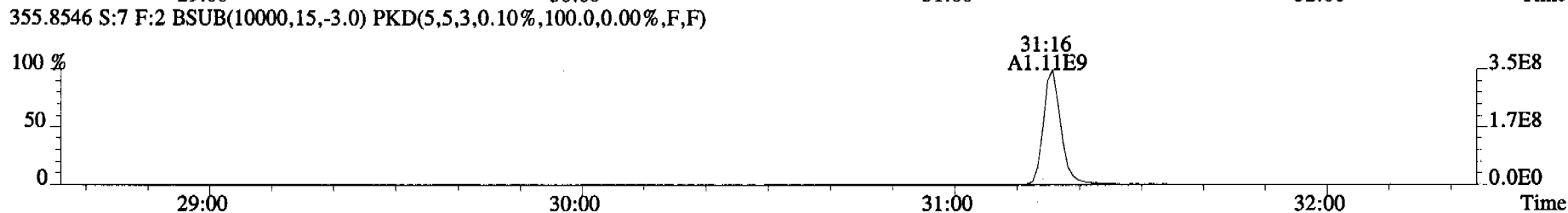
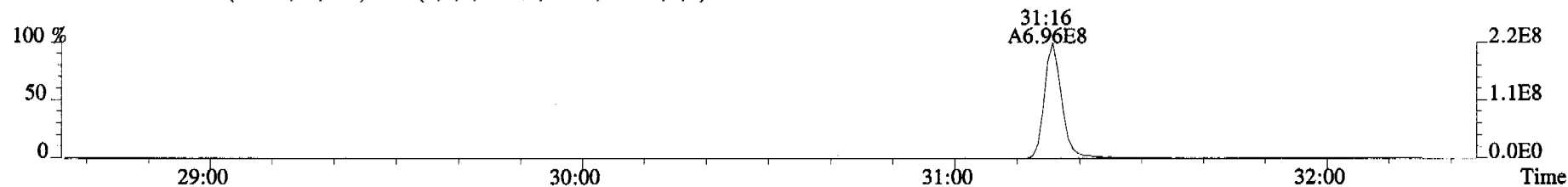
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



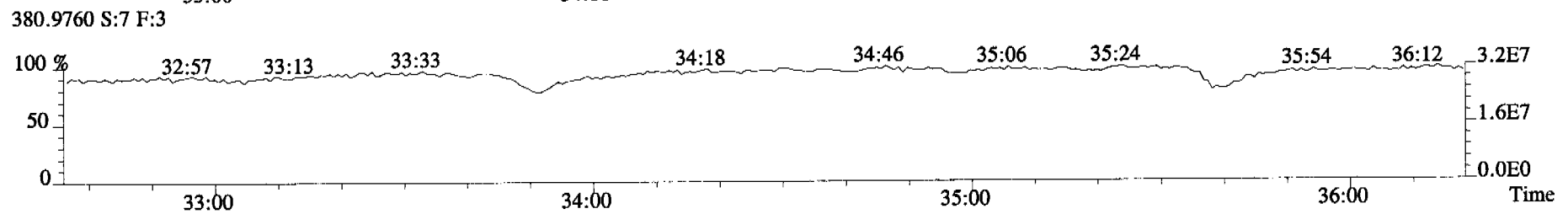
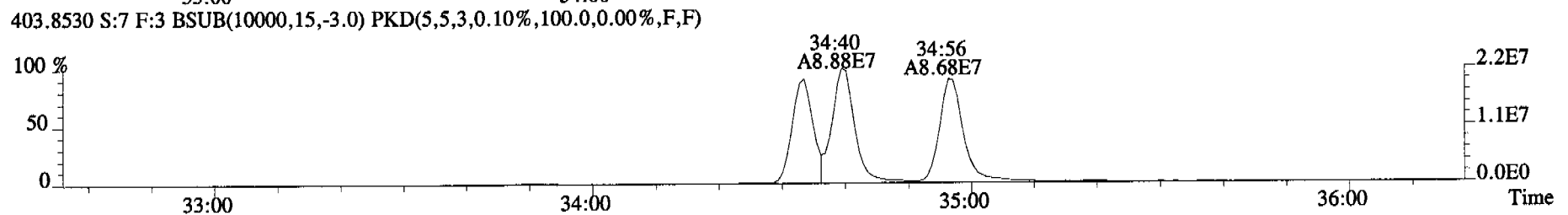
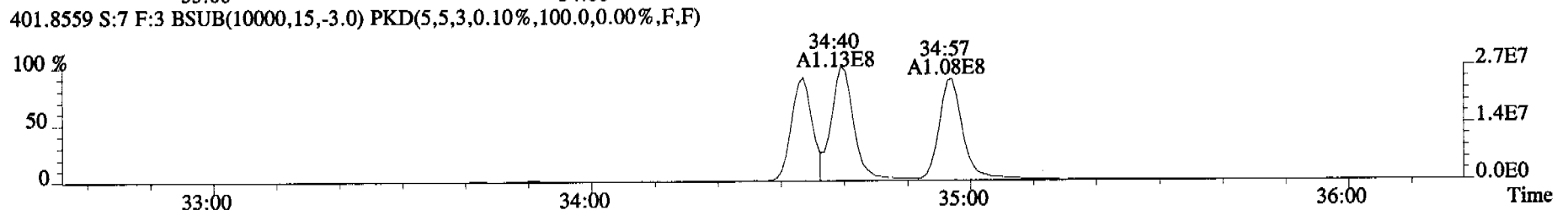
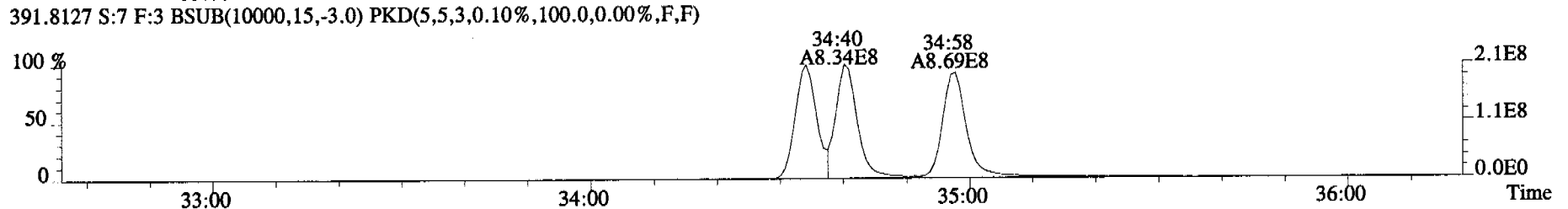
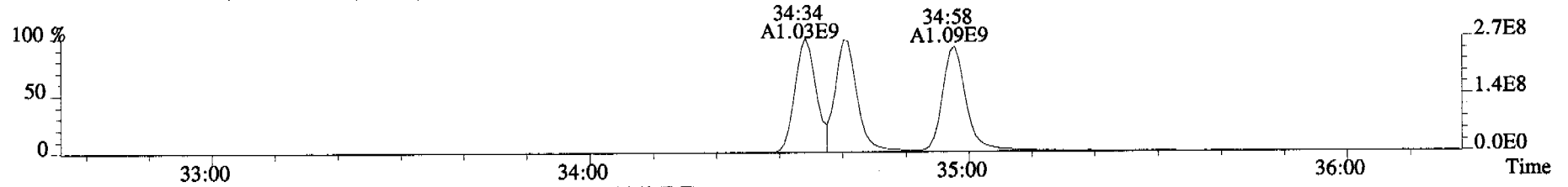
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



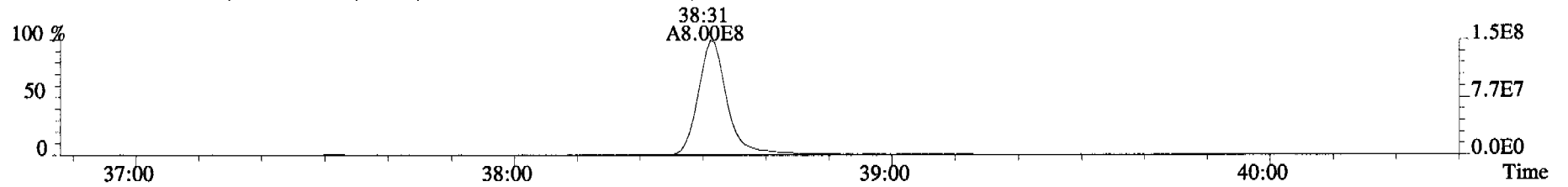
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



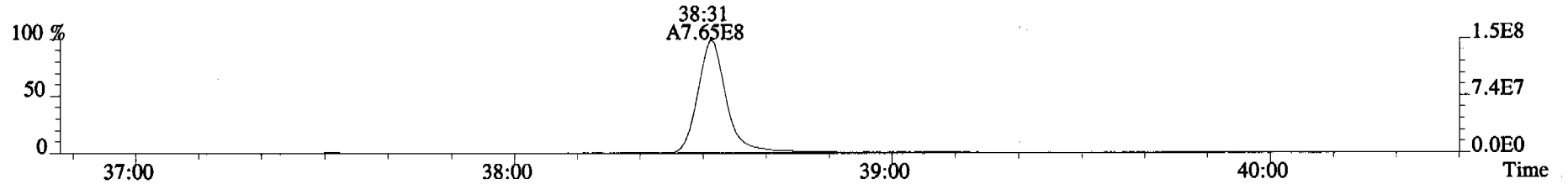
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



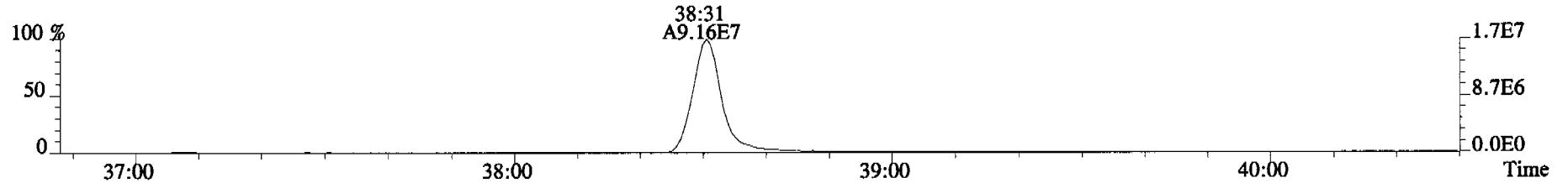
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



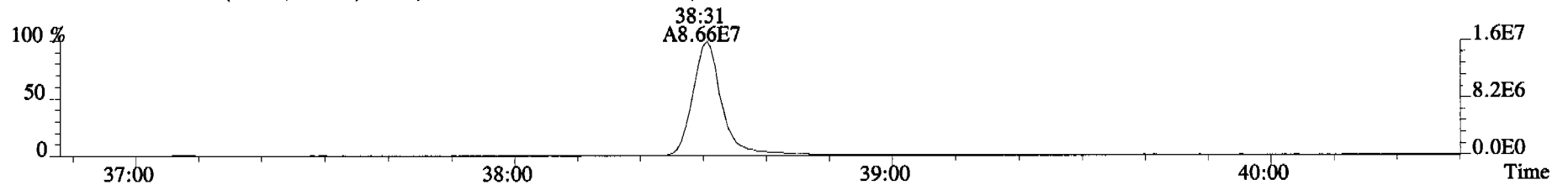
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



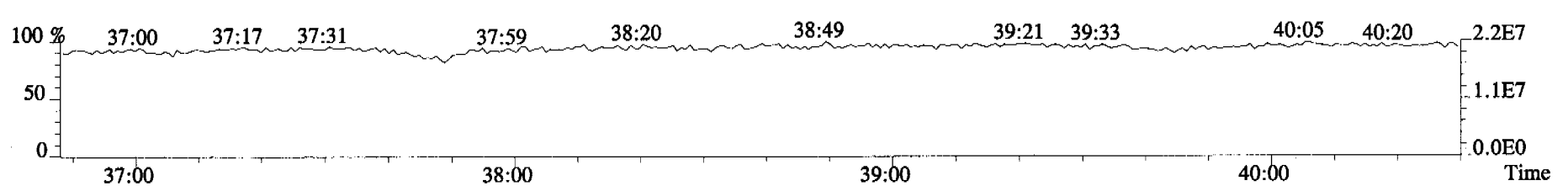
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



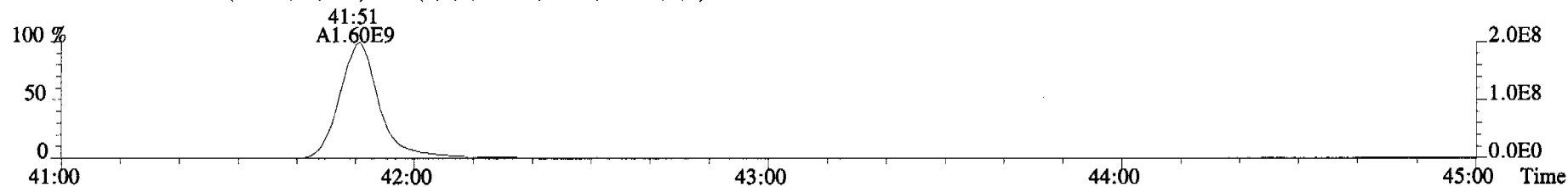
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



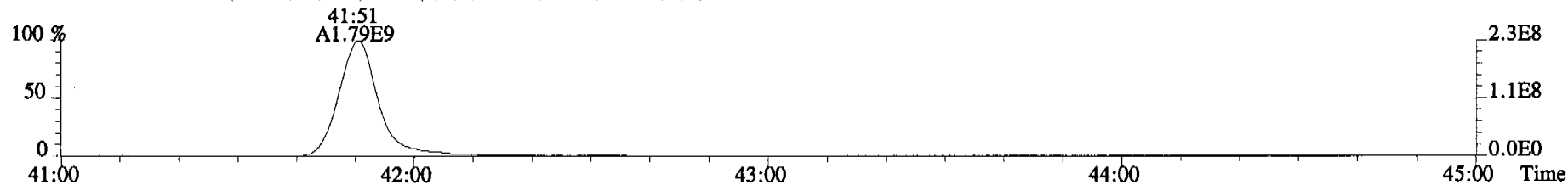
430.9728 S:7 F:4



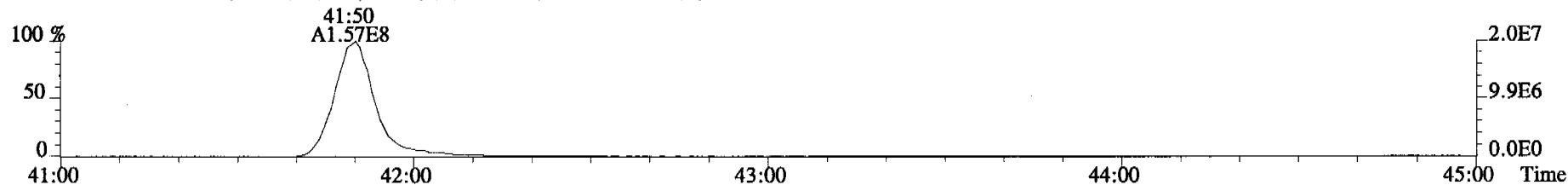
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



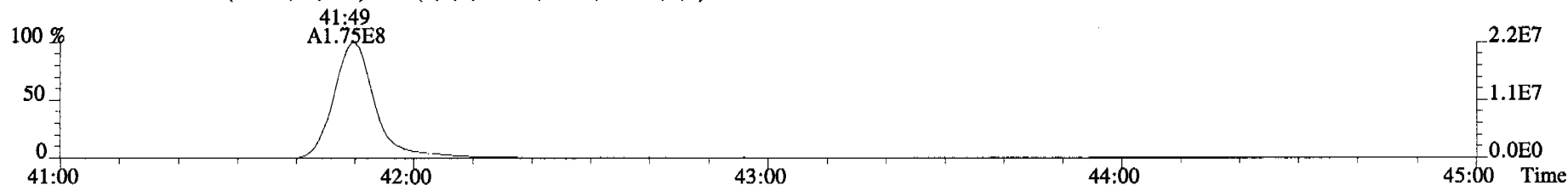
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



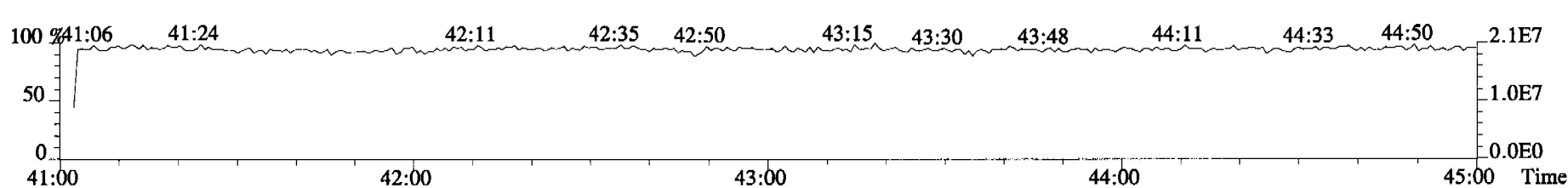
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



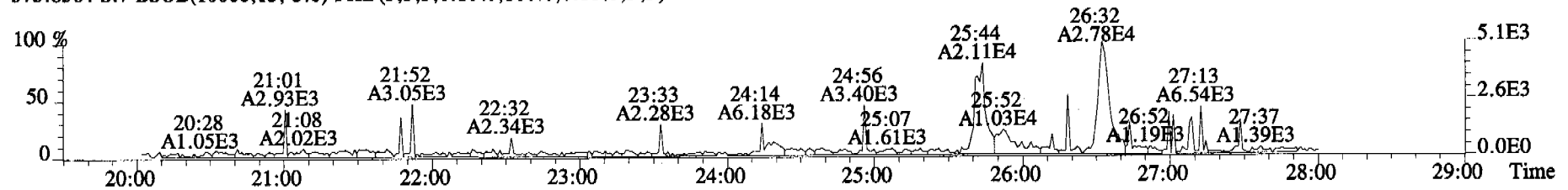
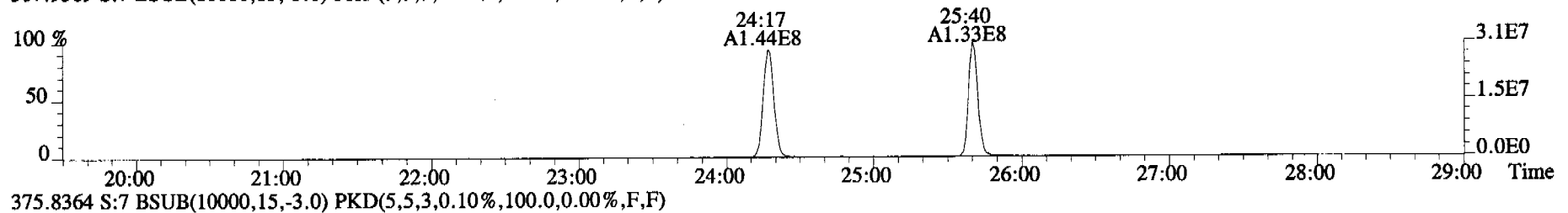
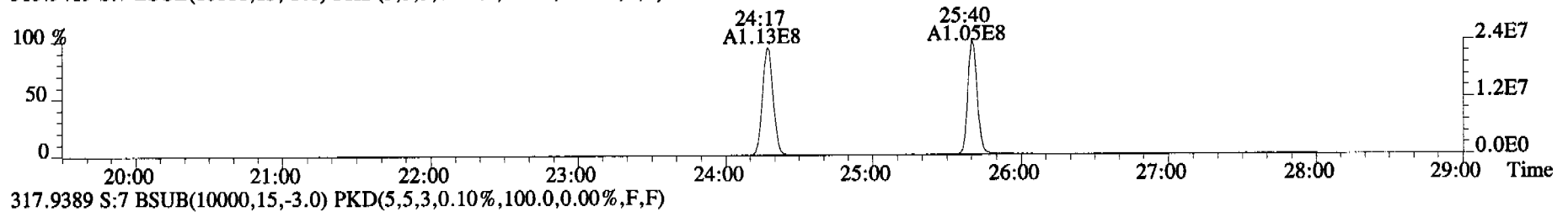
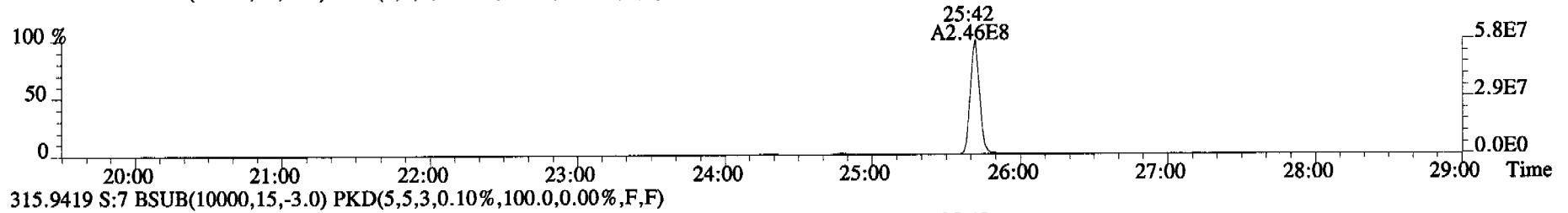
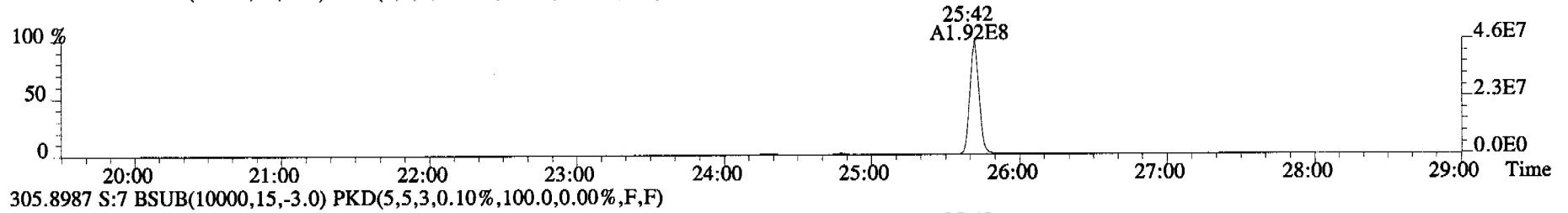
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



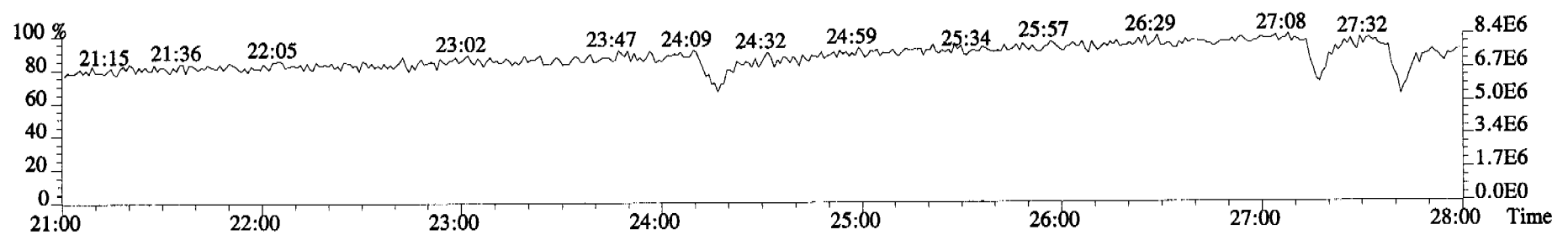
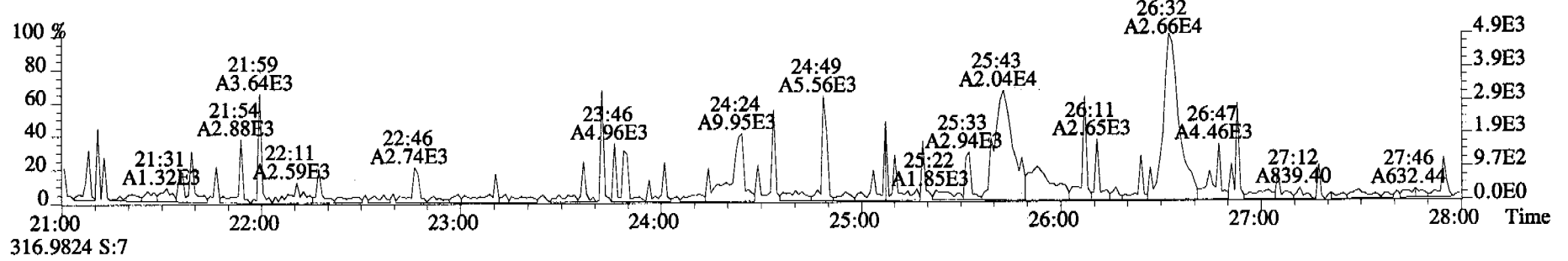
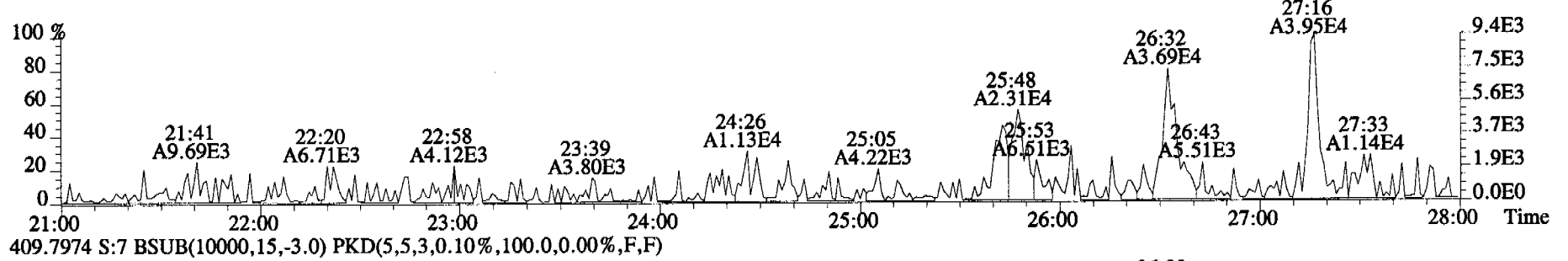
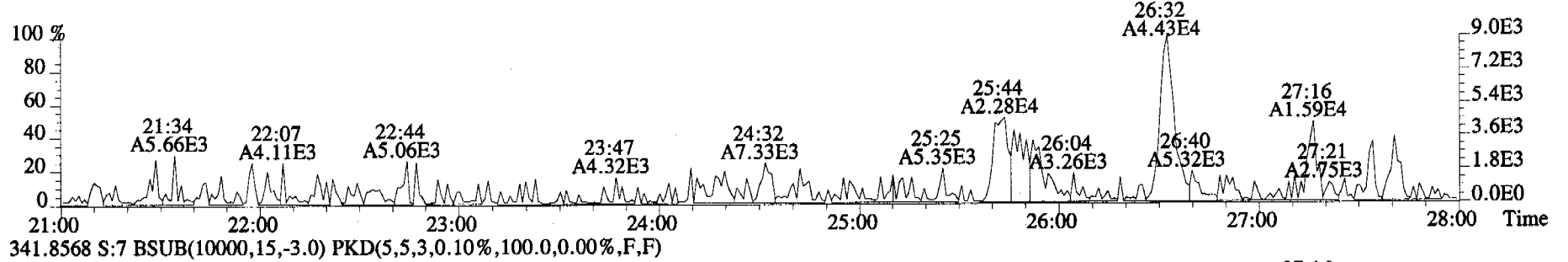
454.9728 S:7 F:5



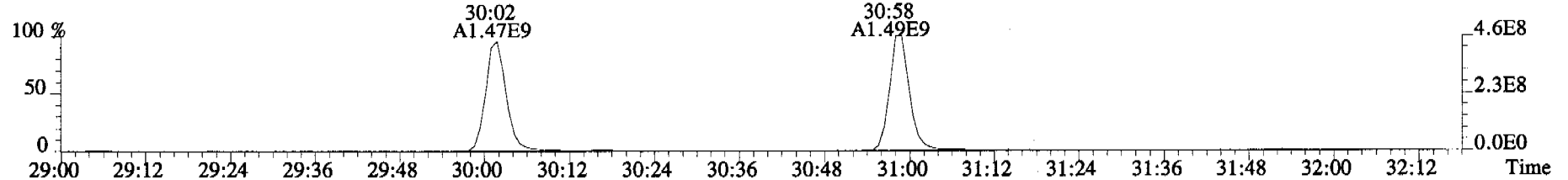
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



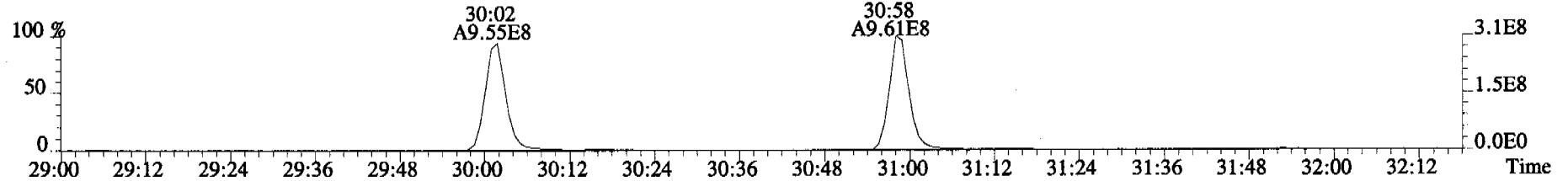
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



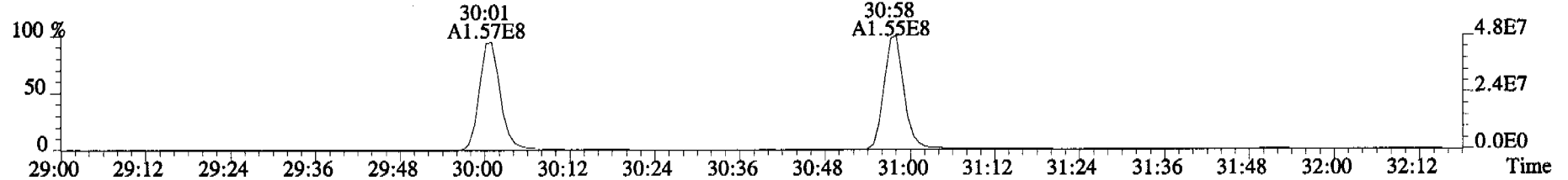
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



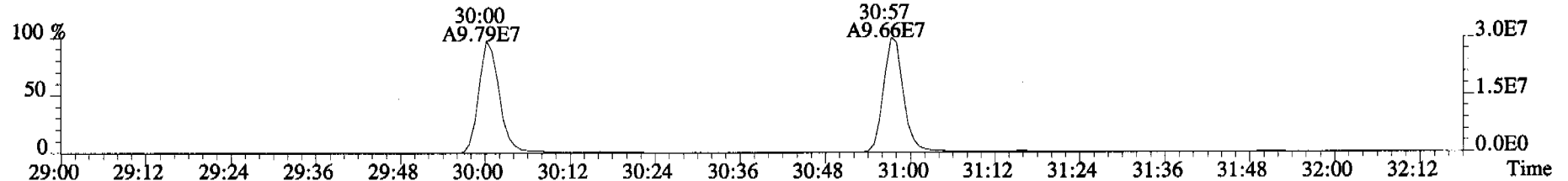
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



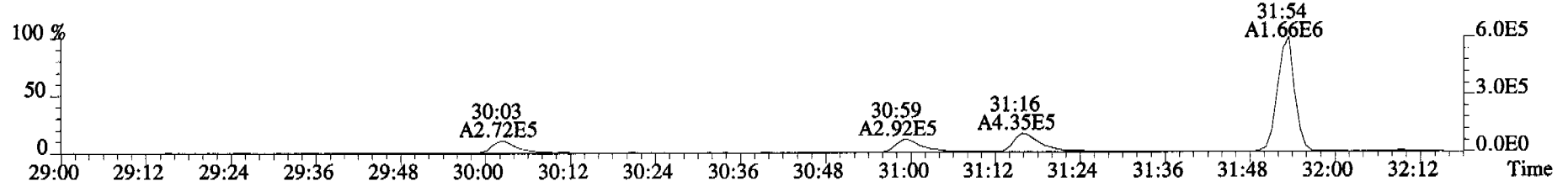
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



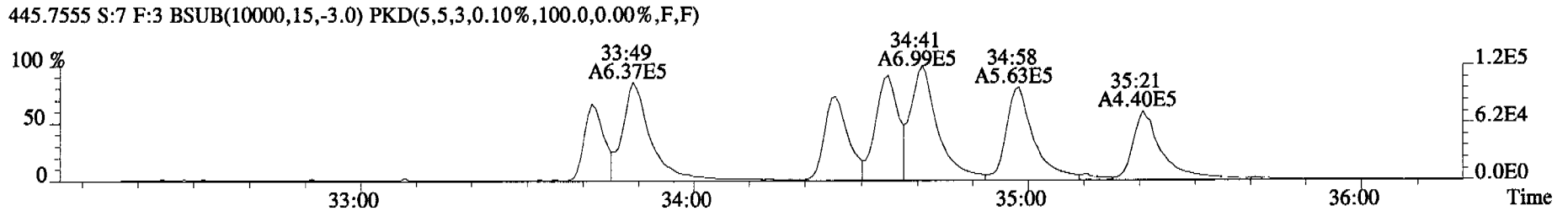
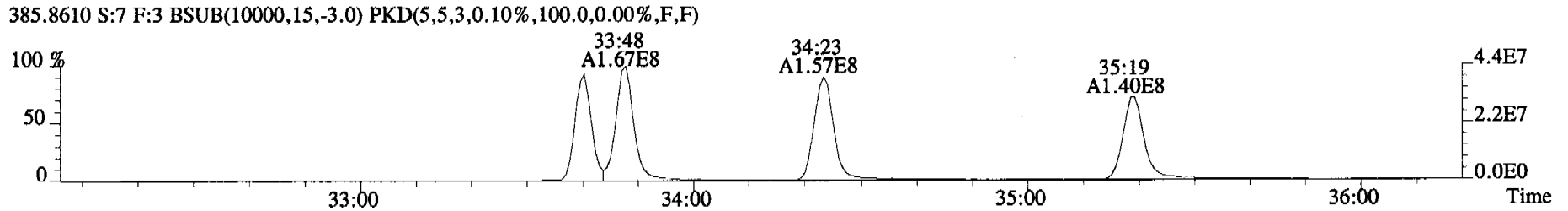
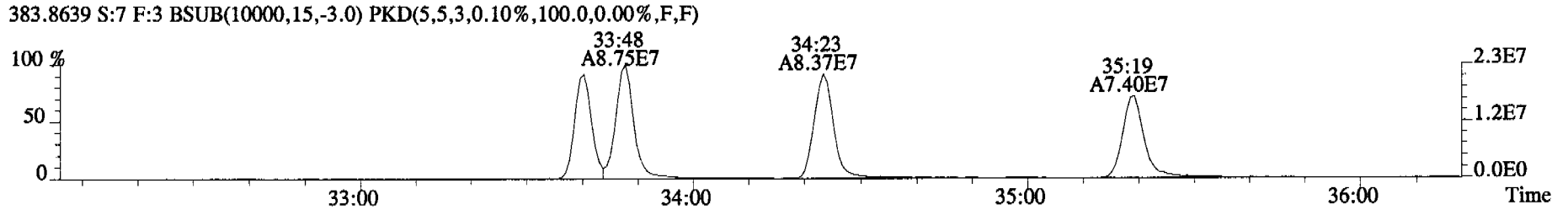
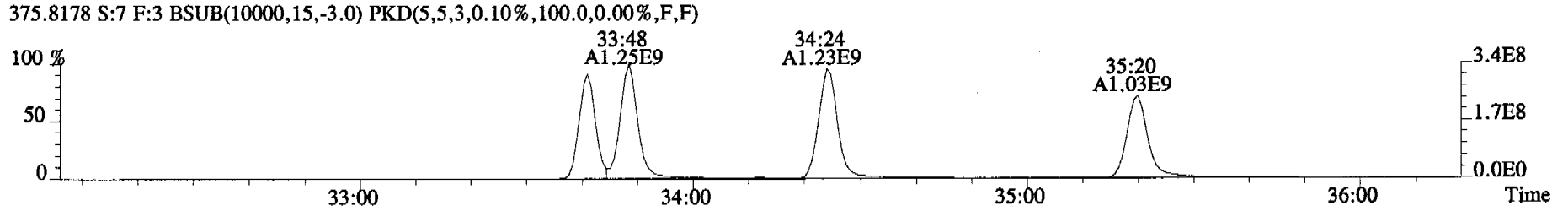
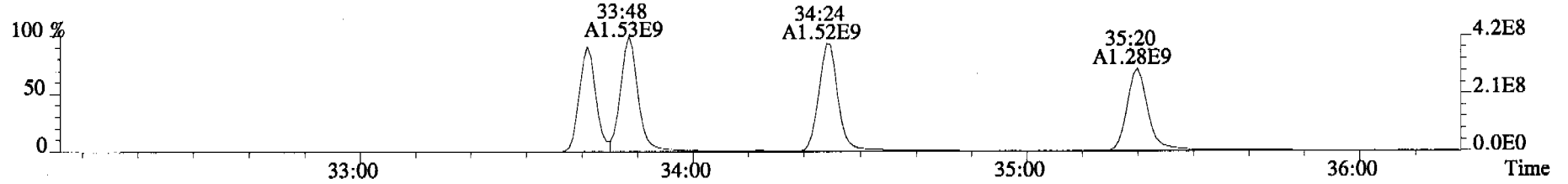
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



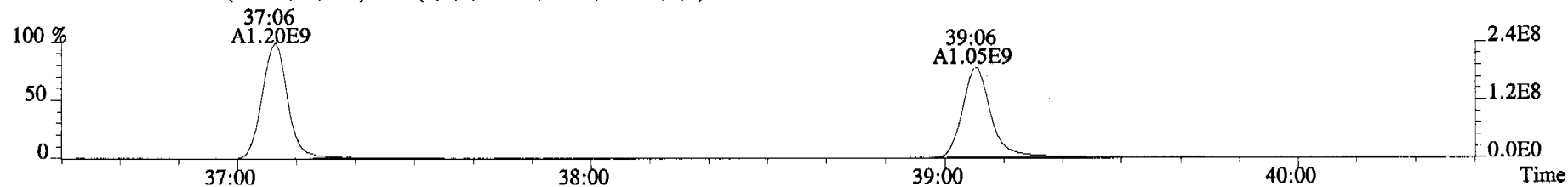
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



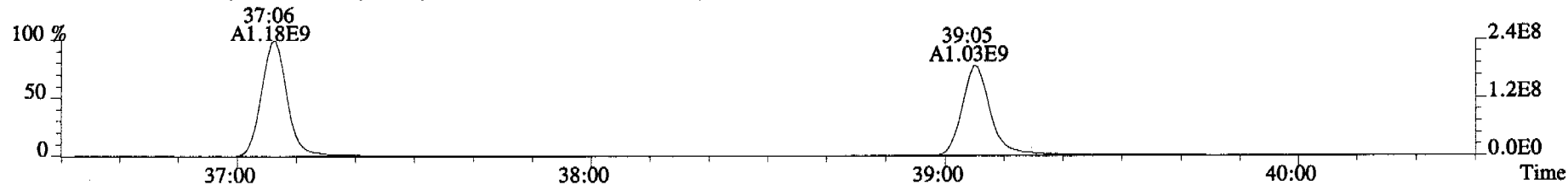
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



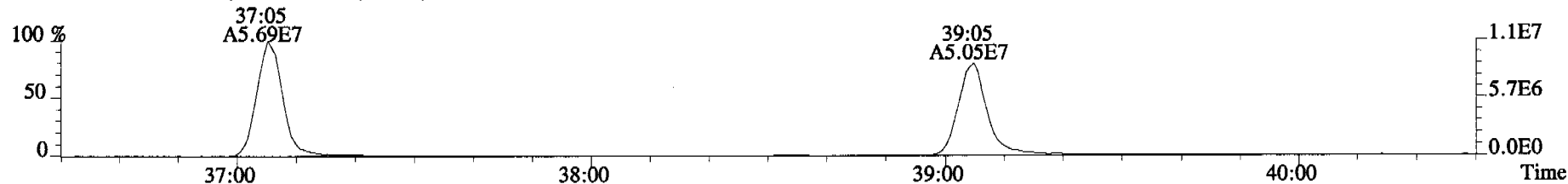
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



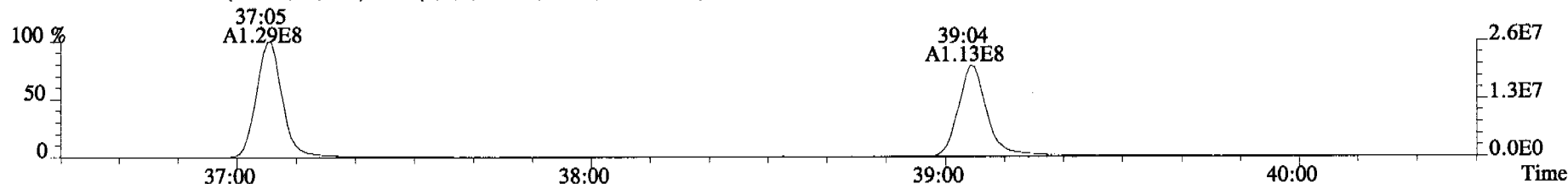
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



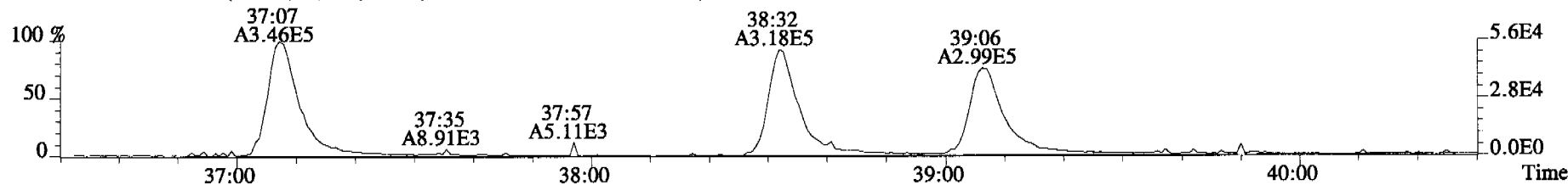
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



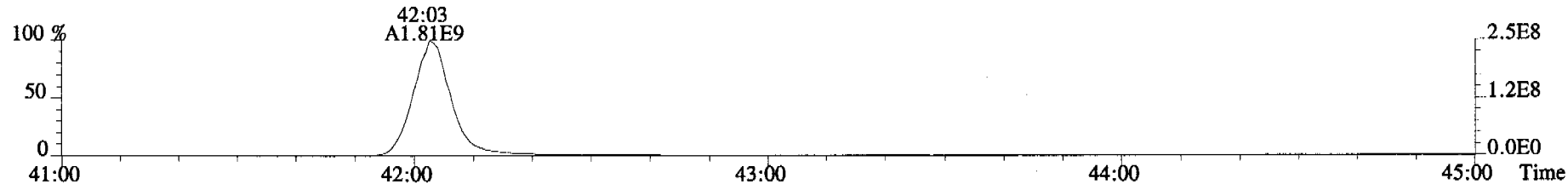
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



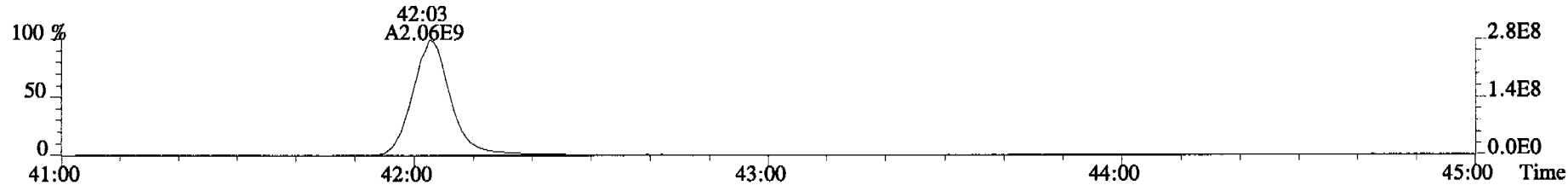
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



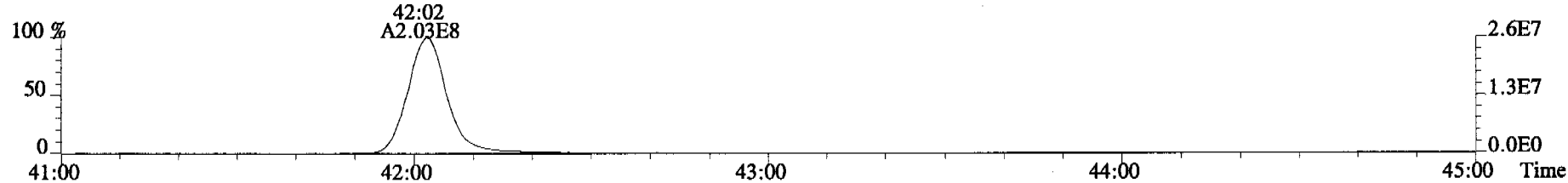
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



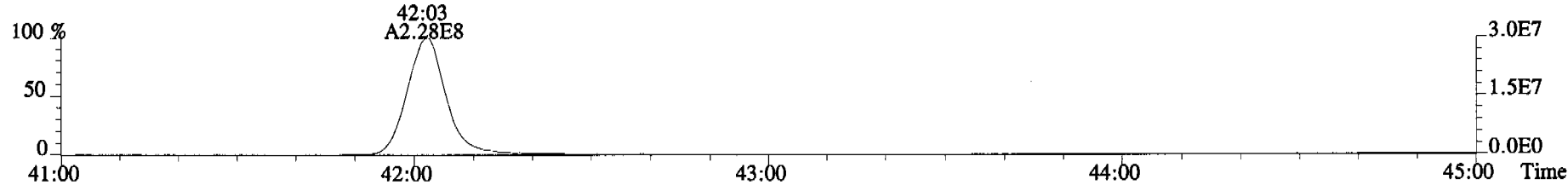
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



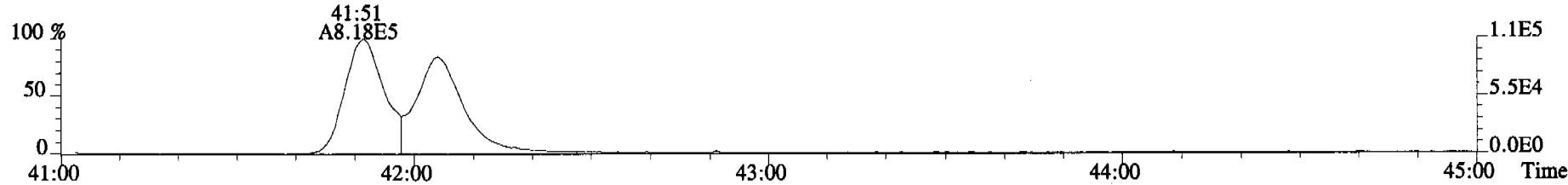
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

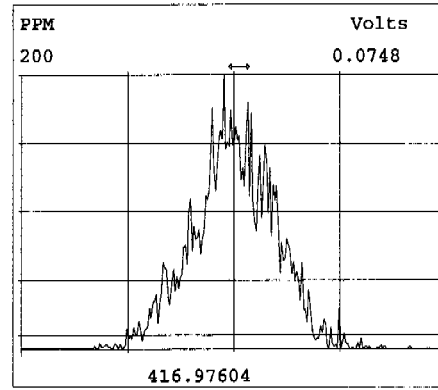
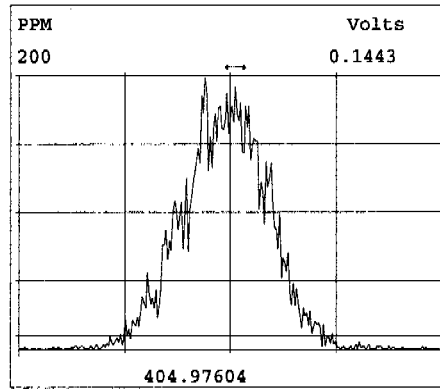
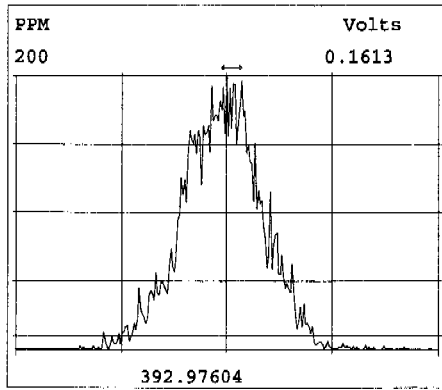
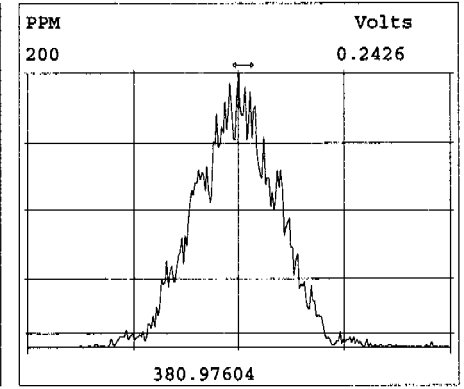
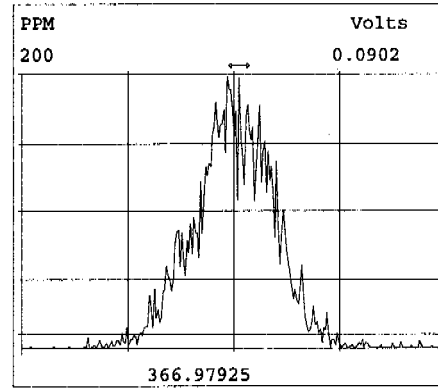
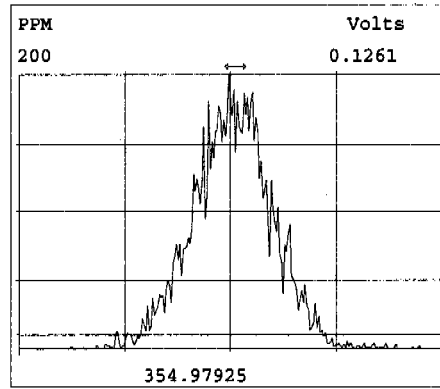
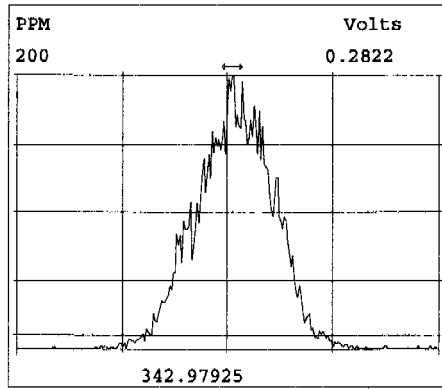
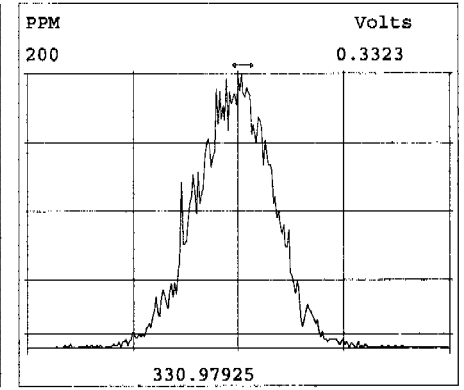
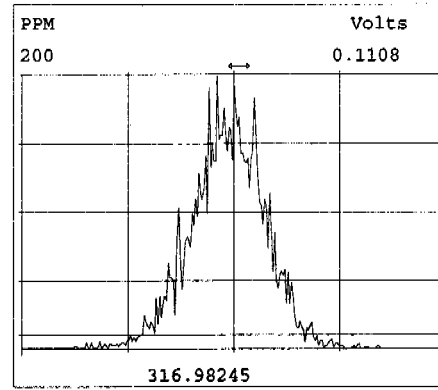
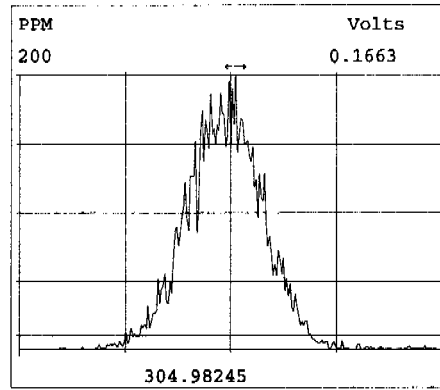
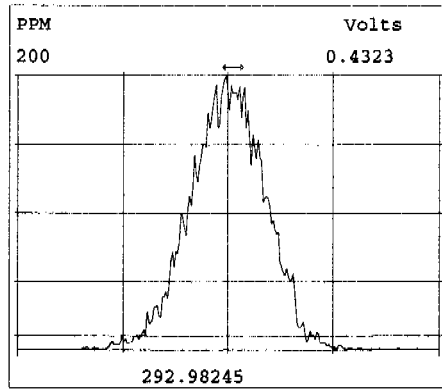


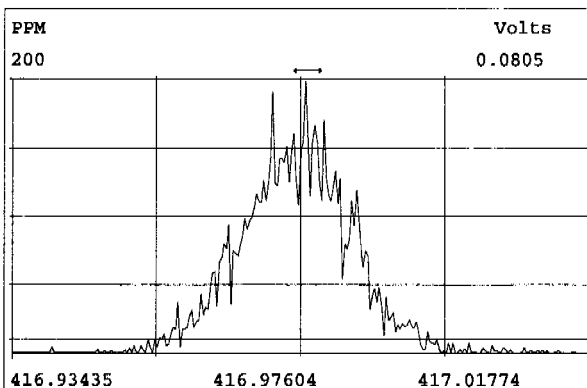
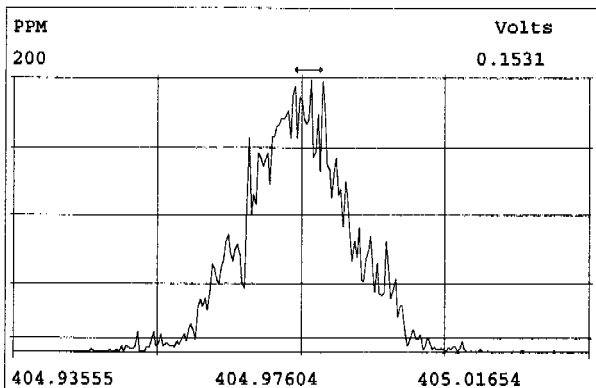
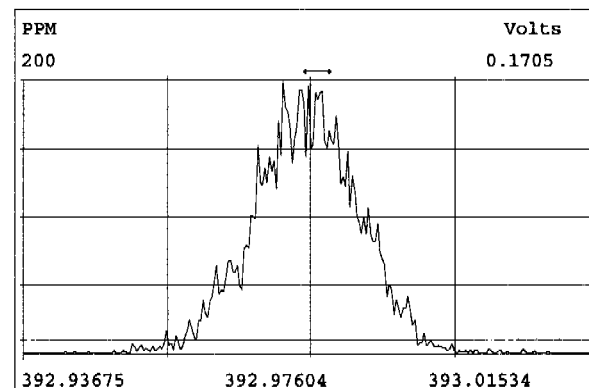
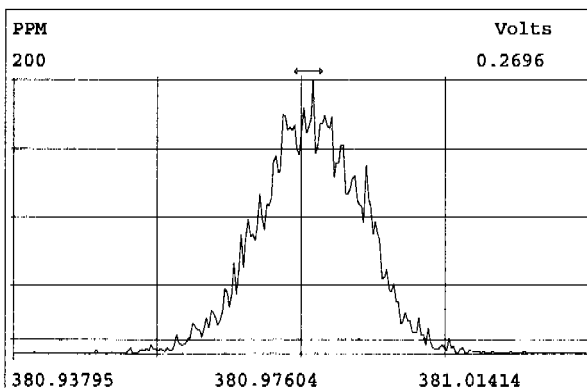
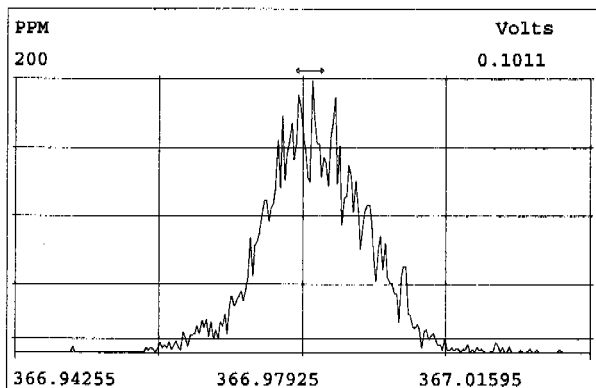
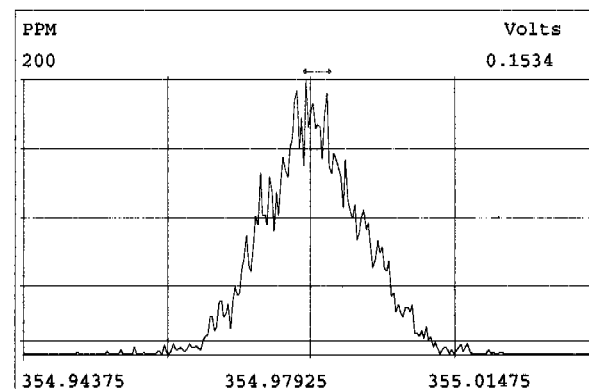
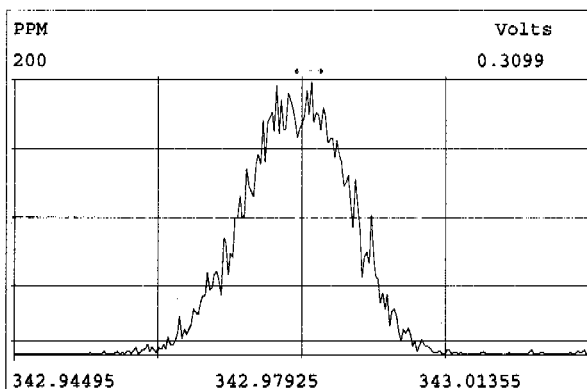
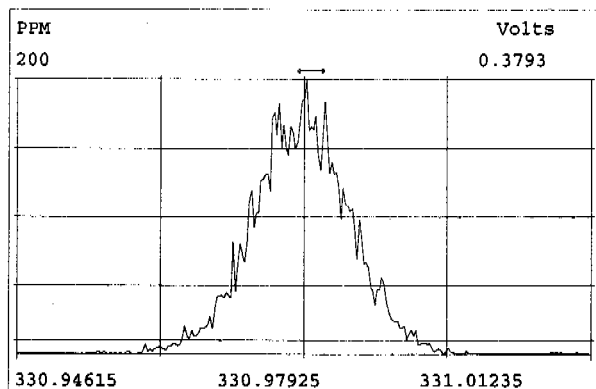
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

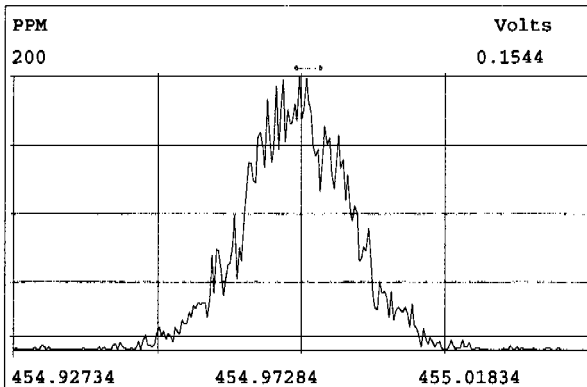
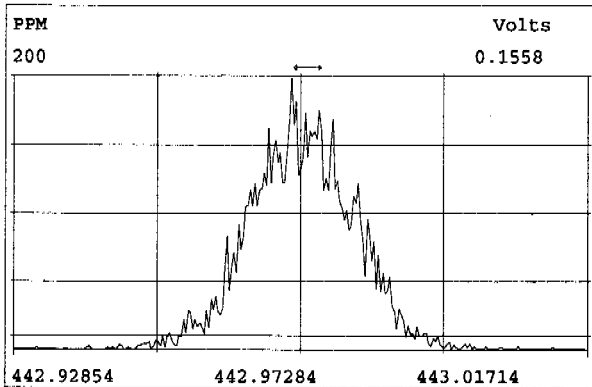
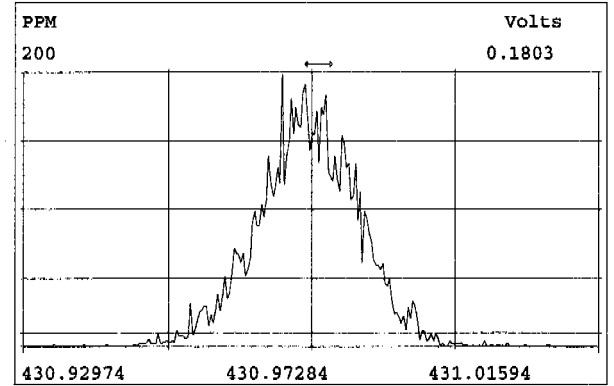
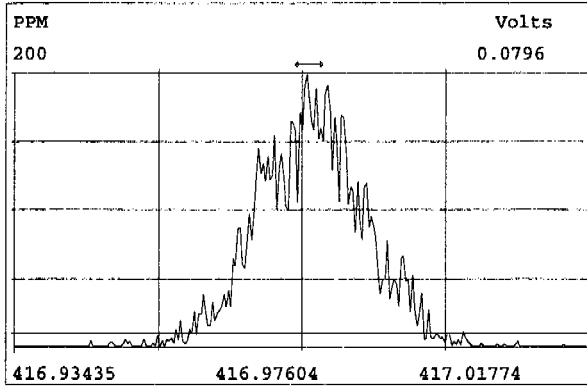
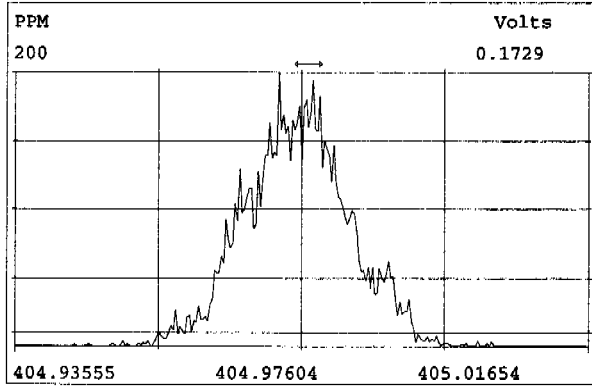
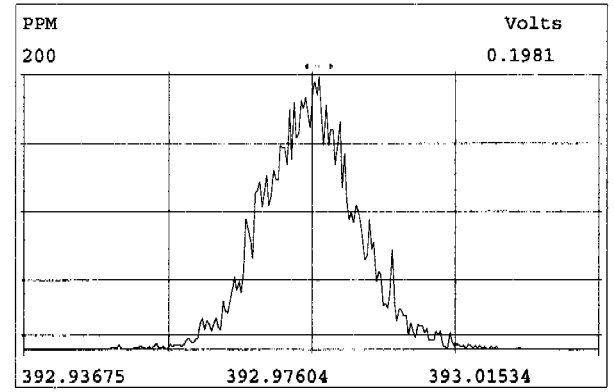
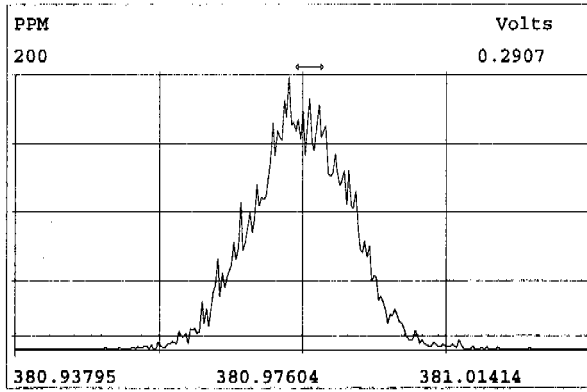
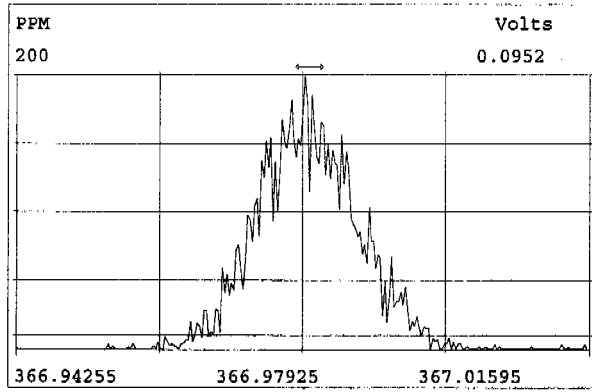


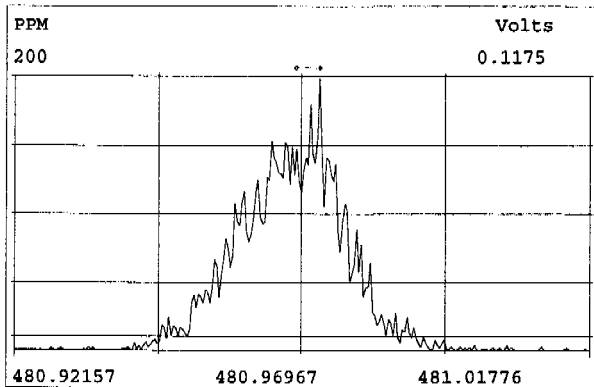
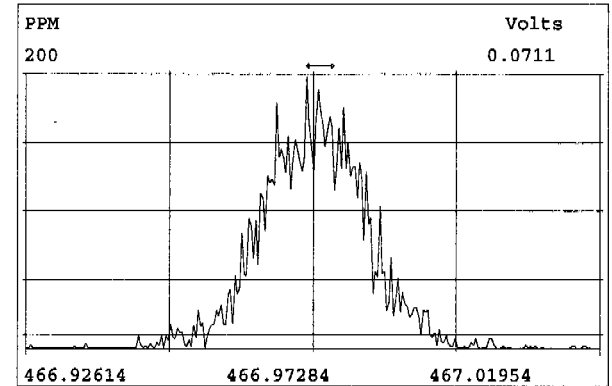
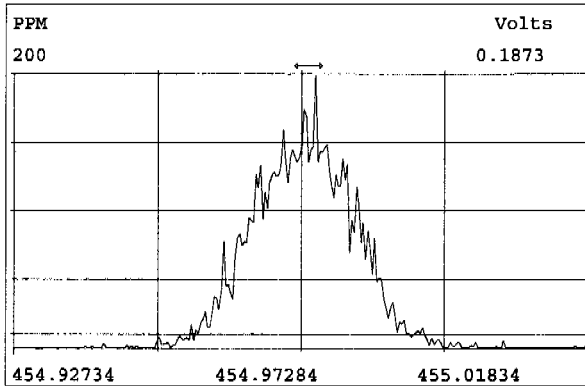
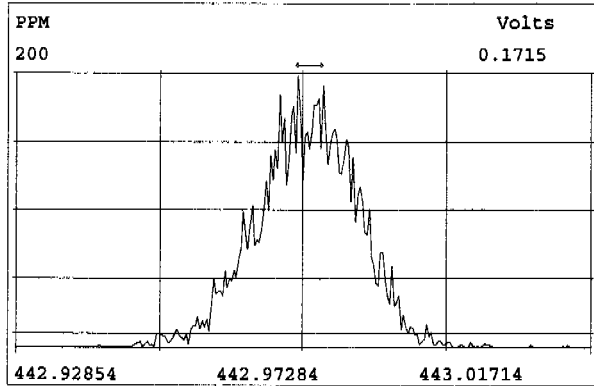
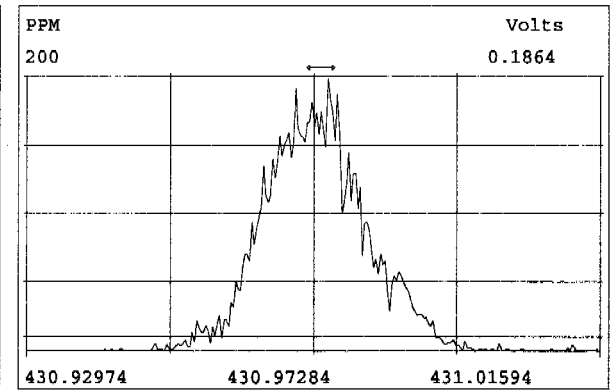
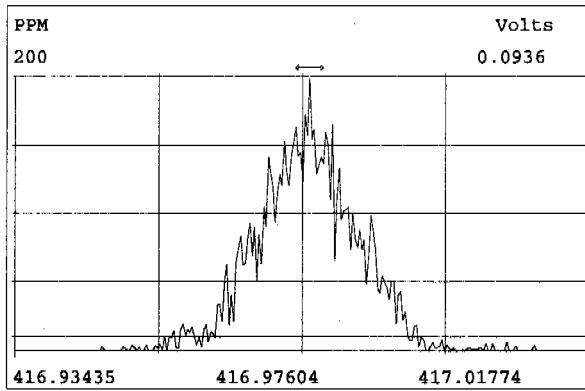
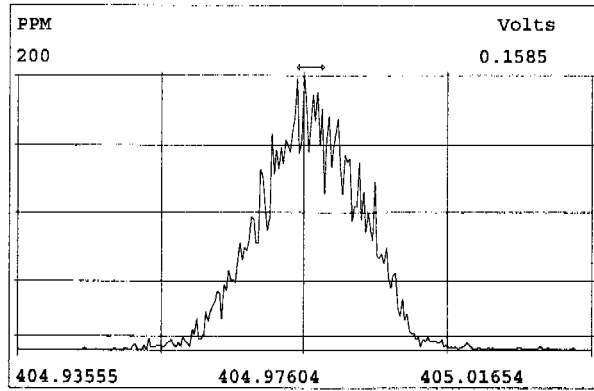
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

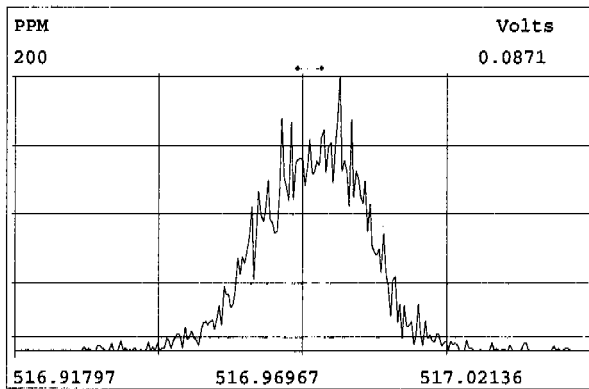
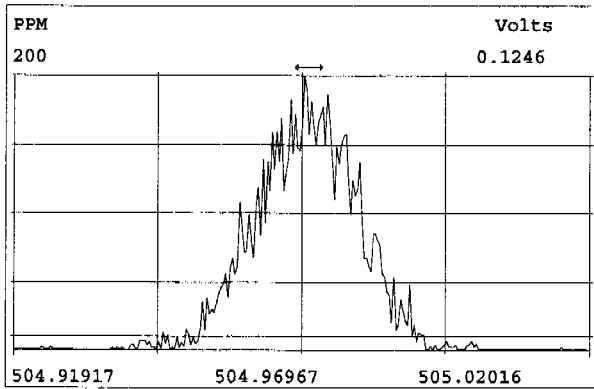
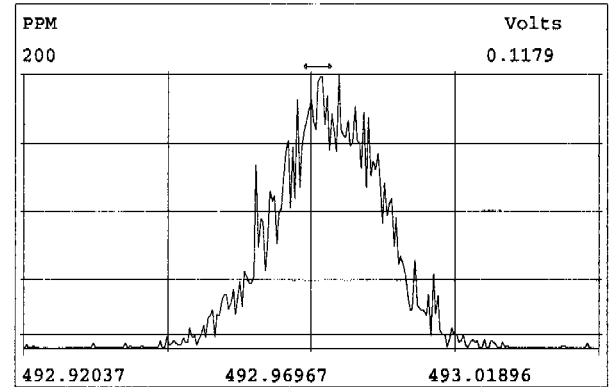
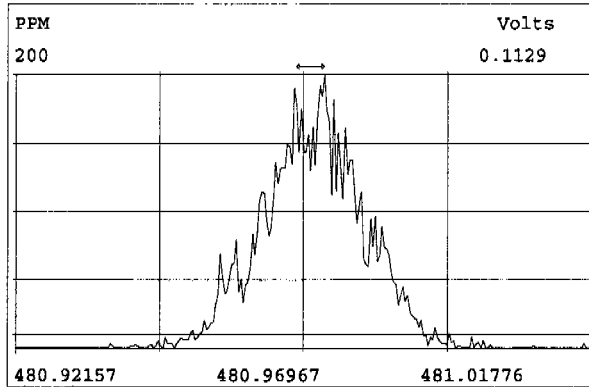
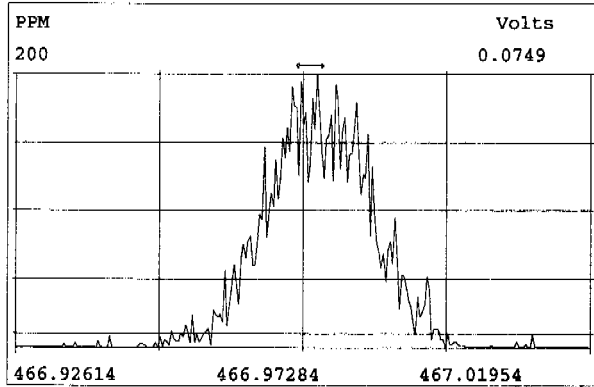
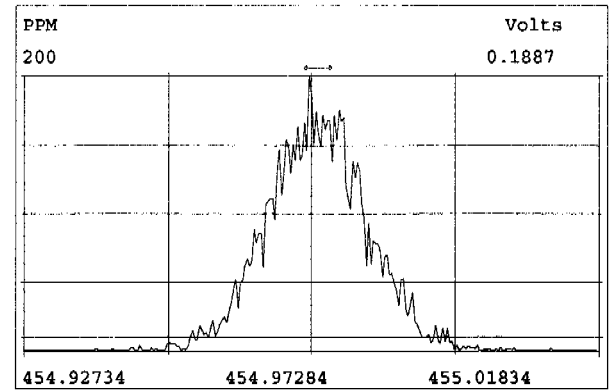
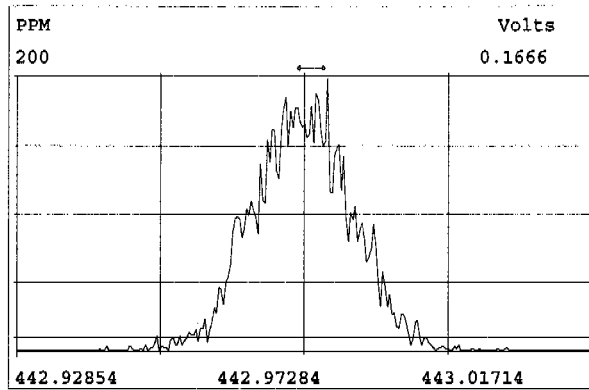
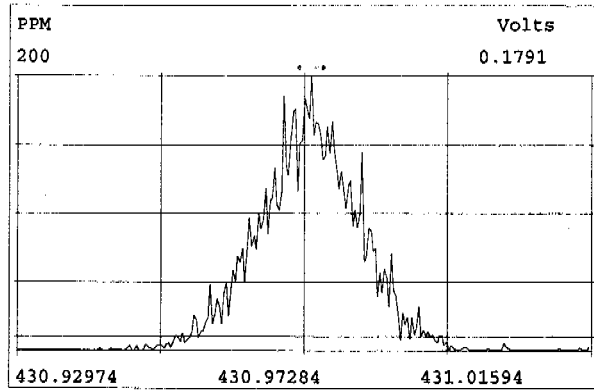












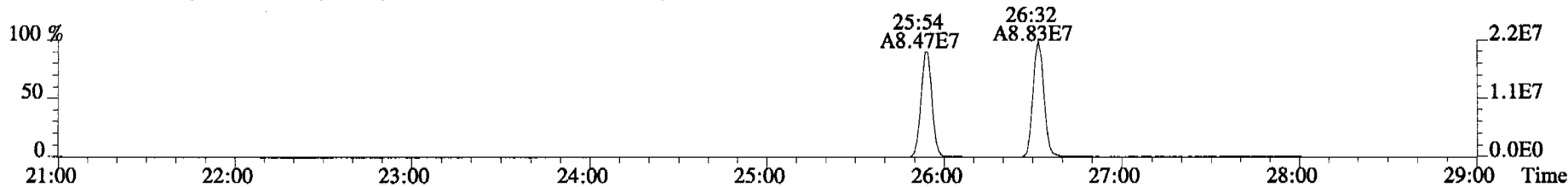
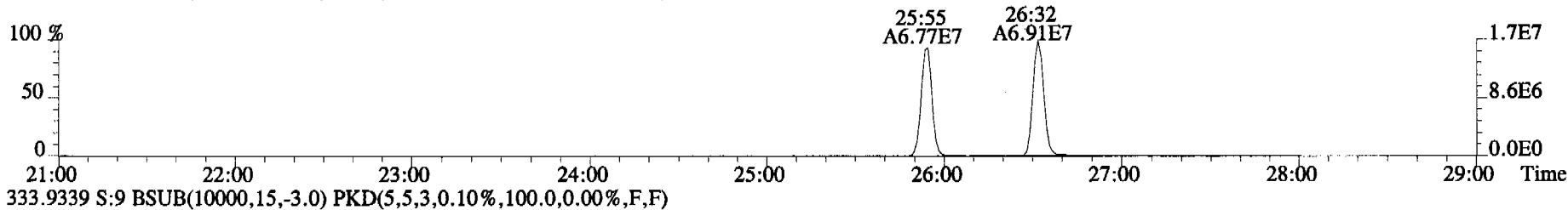
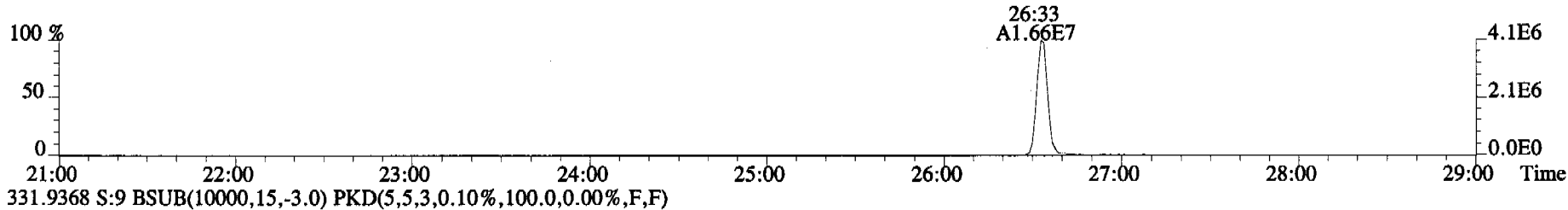
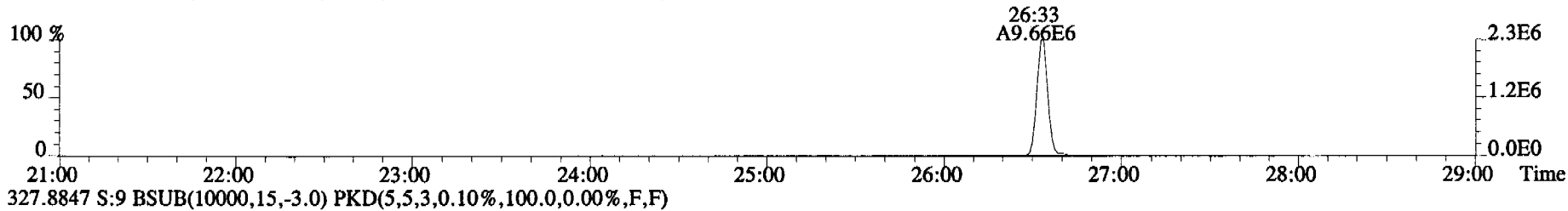
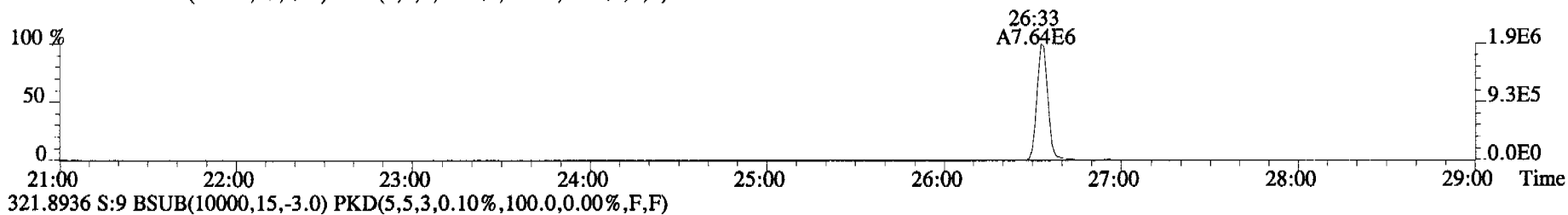
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.73e+07	0.79 y	1.08	26:34	10.177		* 2.5		*	Total Tetra-Dioxins	10.238	10.310		*	*
1,2,3,7,8-PeCDD	8.22e+07	0.63 y	1.03	31:17	51.086		* 2.5		*	Total Penta-Dioxins	51.086	51.131		*	*
1,2,3,4,7,8-HxCDD	7.49e+07	1.27 y	1.13	34:34	49.404		* 2.5		*	Total Hexa-Dioxins	155.83	156.52		*	*
1,2,3,6,7,8-HxCDD	8.77e+07	1.26 y	1.03	34:41	53.502		* 2.5		*	Total Hepta-Dioxins	49.585	49.917		*	*
1,2,3,7,8,9-HxCDD	8.63e+07	1.27 y	1.12	34:59	52.828		* 2.5		*	Total Tetra-Furans	10.228	10.271		*	*
1,2,3,4,6,7,8-HpCDD	7.21e+07	1.06 y	1.02	38:32	49.541		* 2.5		*	Total Penta-Furans	103.59	103.93		*	*
OCDD	1.33e+08	0.89 y	1.06	41:51	97.377		* 2.5		*	Total Hexa-Furans	198.49	198.65		*	*
										Total Hepta-Furans	99.713	100.55		*	*
2,3,7,8-TCDF	2.25e+07	0.77 y	1.06	25:43	10.004		* 2.5		*						
1,2,3,7,8-PeCDF	1.09e+08	1.55 y	1.01	30:03	50.447		* 2.5		*						
2,3,4,7,8-PeCDF	1.20e+08	1.54 y	1.02	30:60	51.163		* 2.5		*						
1,2,3,4,7,8-HxCDF	1.06e+08	1.20 y	1.15	33:41	50.462		* 2.5		*						
1,2,3,6,7,8-HxCDF	1.27e+08	1.22 y	1.14	33:50	49.315		* 2.5		*						
2,3,4,6,7,8-HxCDF	1.10e+08	1.23 y	1.17	34:25	46.925		* 2.5		*						
1,2,3,7,8,9-HxCDF	9.74e+07	1.25 y	1.10	35:21	51.523		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	9.52e+07	1.01 y	1.31	37:08	49.746		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	8.39e+07	1.01 y	1.33	39:04	49.924		* 2.5		*						
OCDF	1.52e+08	0.87 y	0.91	42:02			* 2.5		*						
IS	13C-2,3,7,8-TCDD	1.57e+08	0.78 y	1.09	26:32	94.685				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	1.56e+08	0.64 y	1.04	31:16	98.317				94.7					
IS	13C-1,2,3,4,7,8-HxCDD	1.34e+08	1.27 y	0.83	34:34	100.36				98.3					
IS	13C-1,2,3,6,7,8-HxCDD	1.59e+08	1.28 y	1.04	34:40	95.078				100					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.43e+08	1.08 y	0.85	38:31	104.81				95.1					
IS	13C-OCDD	2.59e+08	0.90 y	0.71	41:50	225.79				105					
IS	13C-2,3,7,8-TCDF	2.12e+08	0.80 y	0.96	25:42					113					
IS	13C-1,2,3,7,8-PeCDF	2.14e+08	1.59 y	1.02	30:02					+94.0					
IS	13C-2,3,4,7,8-PeCDF	2.29e+08	1.59 y	1.02	30:59					+89.2					
IS	13C-1,2,3,4,7,8-HxCDF	1.84e+08	0.51 y	1.14	33:41	99.916				+95.5					
IS	13C-1,2,3,6,7,8-HxCDF	2.27e+08	0.52 y	1.40	33:49	100.76									
IS	13C-2,3,4,6,7,8-HxCDF	2.01e+08	0.52 y	1.26	34:24	99.050									
IS	13C-1,2,3,7,8,9-HxCDF	1.72e+08	0.52 y	1.08	35:20	98.961									
IS	13C-1,2,3,4,6,7,8-HpCDF	1.46e+08	0.43 y	0.93	37:08	97.155									
IS	13C-1,2,3,4,7,8,9-HpCDF	1.27e+08	0.43 y	0.77	39:03	102.95									
IS	13C-OCDF	*	* n	0.94	NotF η	*									
C/Up	37C1-2,3,7,8-TCDD	1.66e+07		0.77	26:33	14.069									
RS/RT	13C-1,2,3,4-TCDD	1.52e+08	0.80 y	1.00	25:54	100.00									
RS	13C-1,2,3,4-TCDF	*	* n	1.00	NotF η	*									
RS/RT	13C-1,2,3,7,8,9-HxCDD	1.61e+08	1.27 y	1.00	34:57	100.00									

*98.84 Daily RRF = 1.19 using OCDD

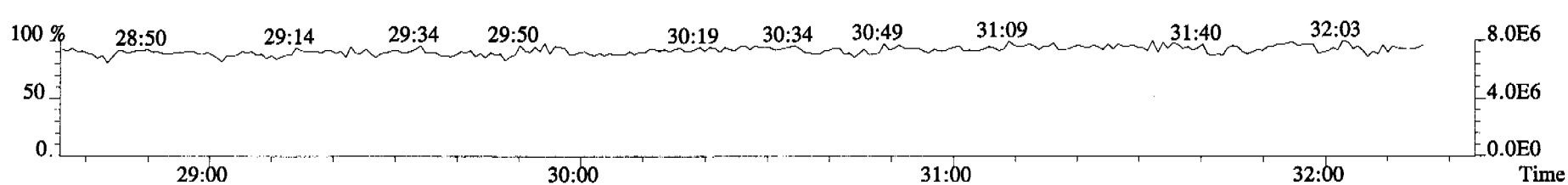
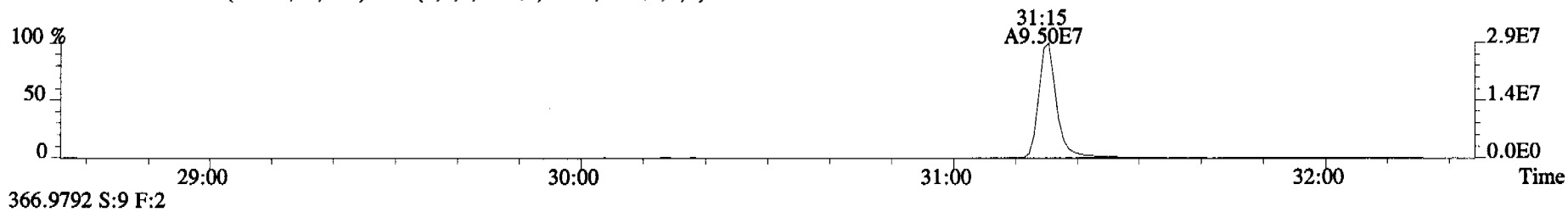
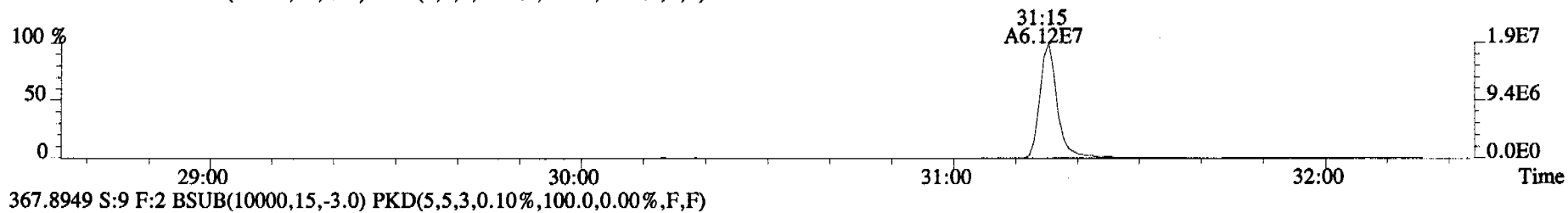
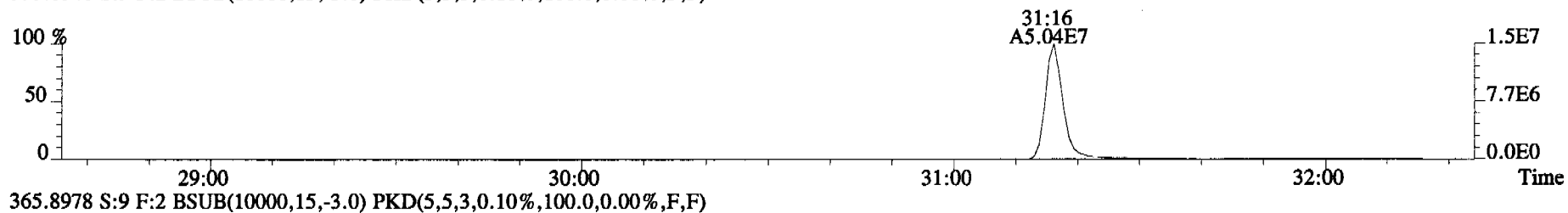
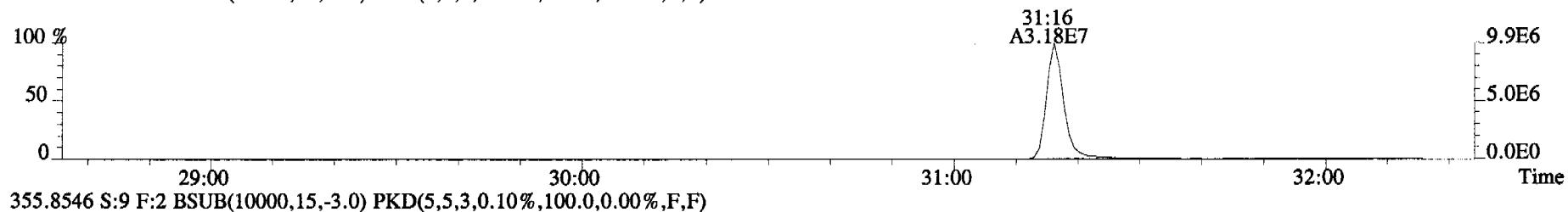
*Daily RRF = 1.46 using TCDD
 *Daily RRF = 1.58 using TCDD
 *Daily RRF = 1.58 using TCDD

Integrations Reviewed
 by my by
 Analyst: _____ Analyst: _____
 Date: 3/23/06 Date: _____

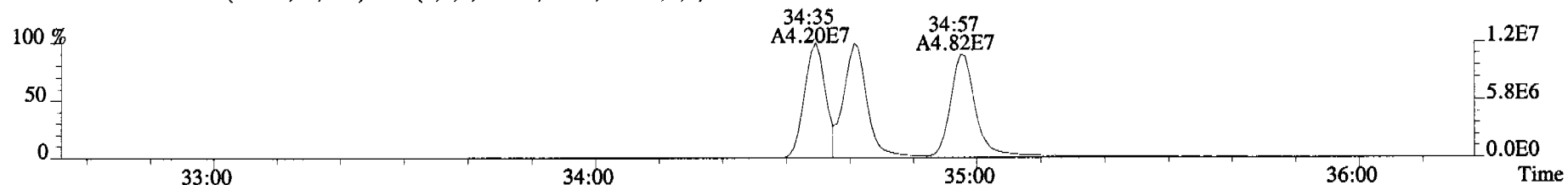
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



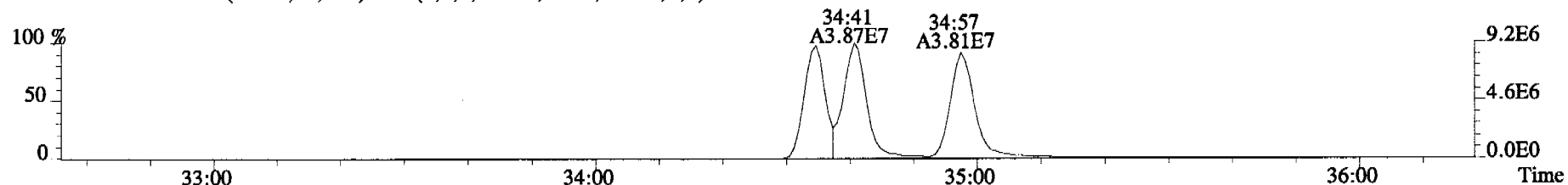
File:060322C1 #1-316 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



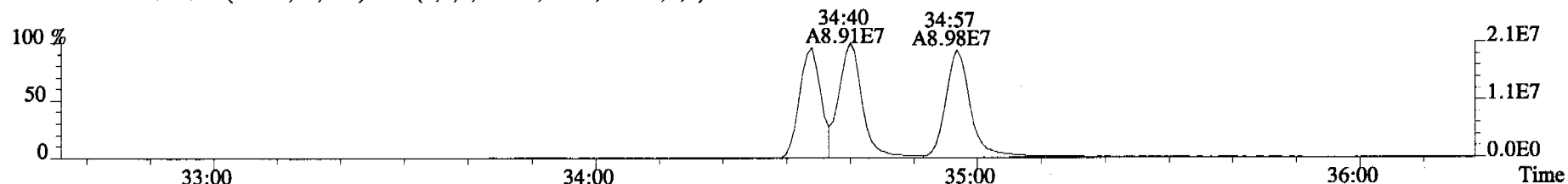
File:060322C1 #1-377 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



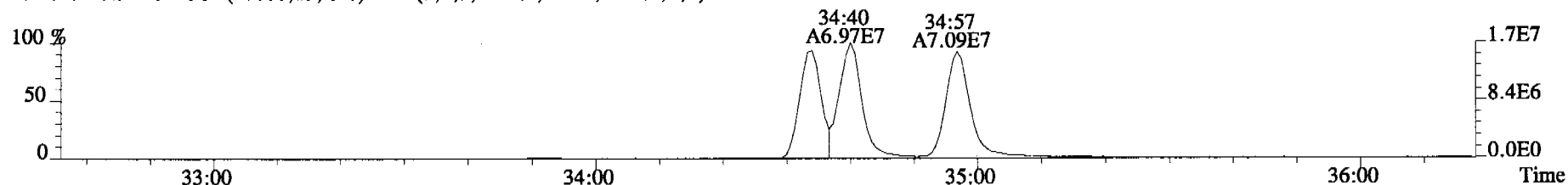
391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



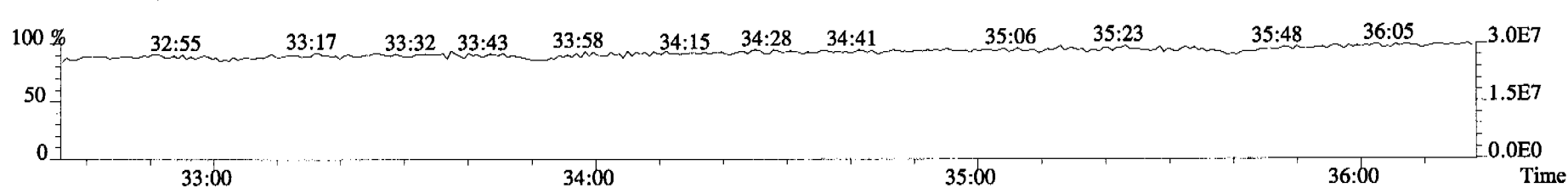
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



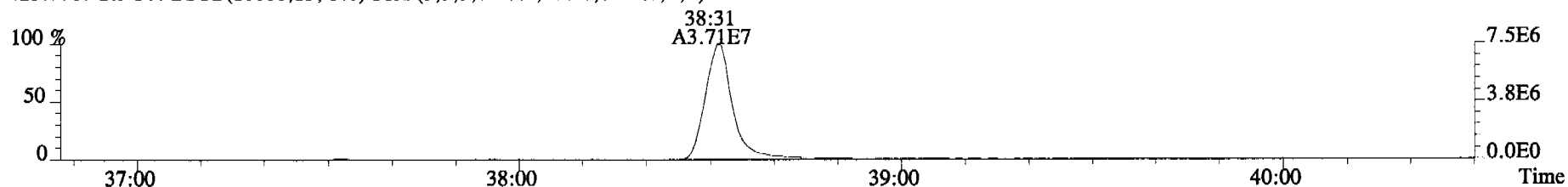
403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



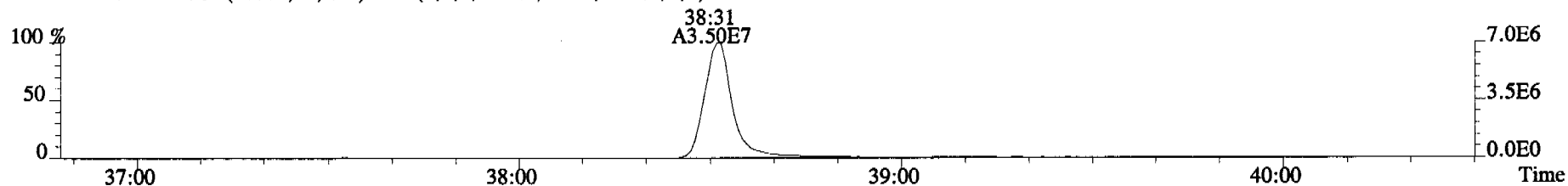
380.9760 S:9 F:3



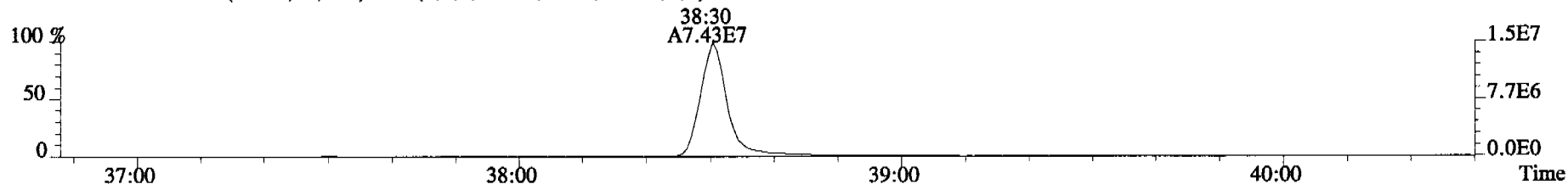
File:060322C1 #1-400 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



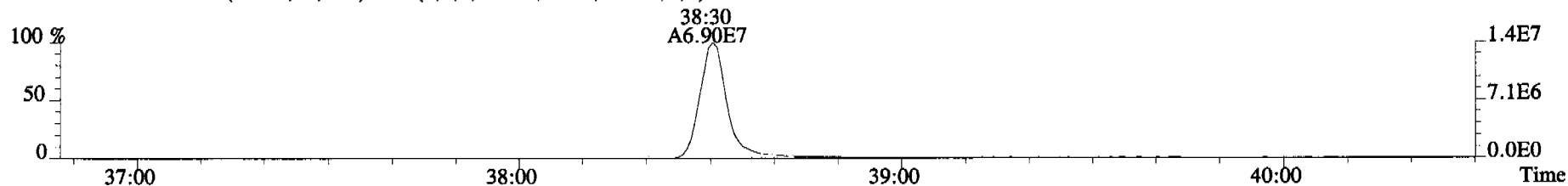
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



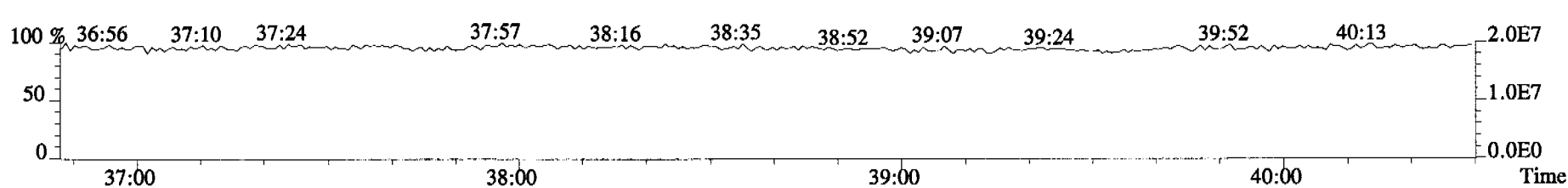
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



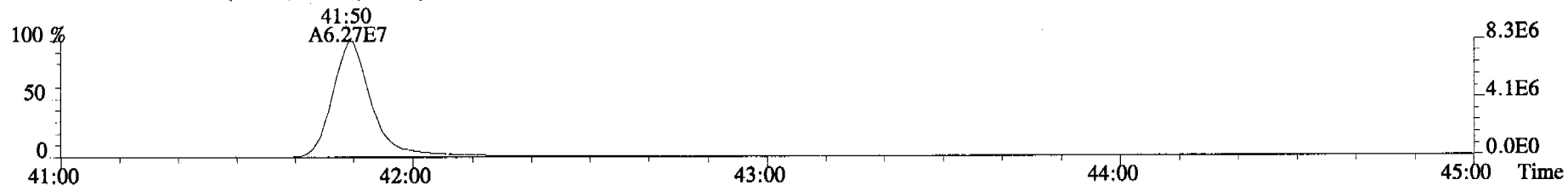
437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



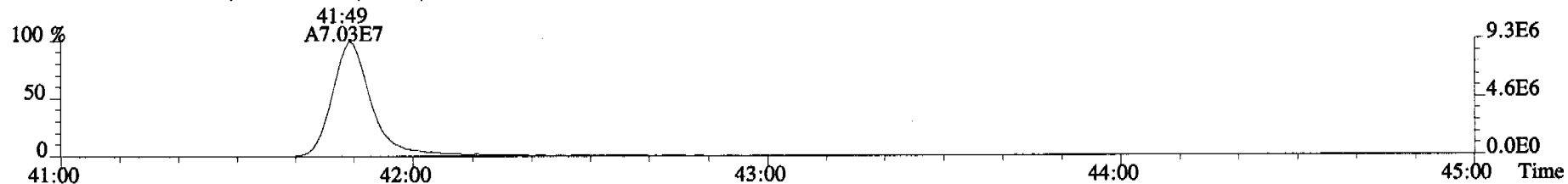
430.9728 S:9 F:4



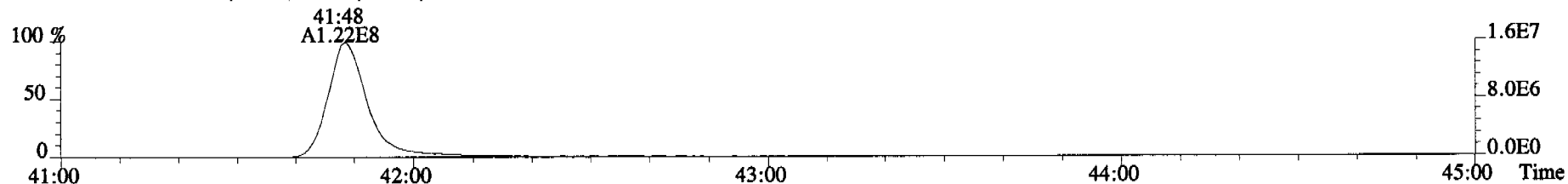
File:060322C1 #1-345 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



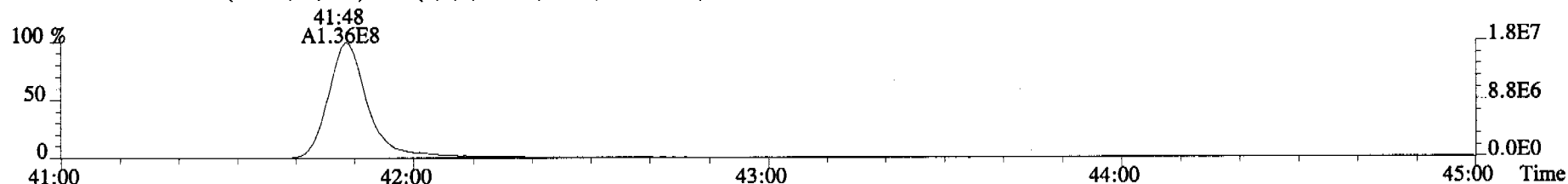
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



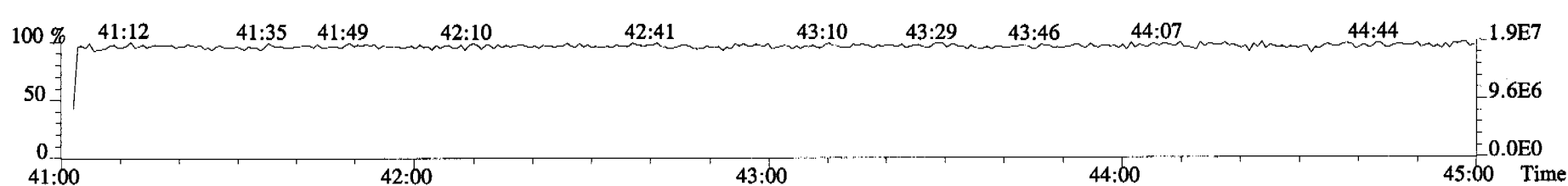
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



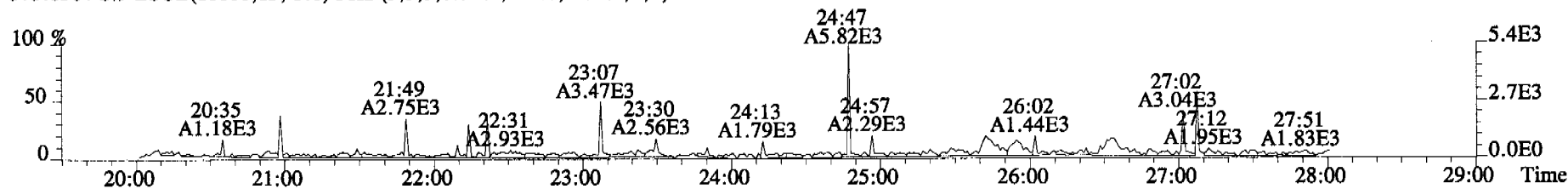
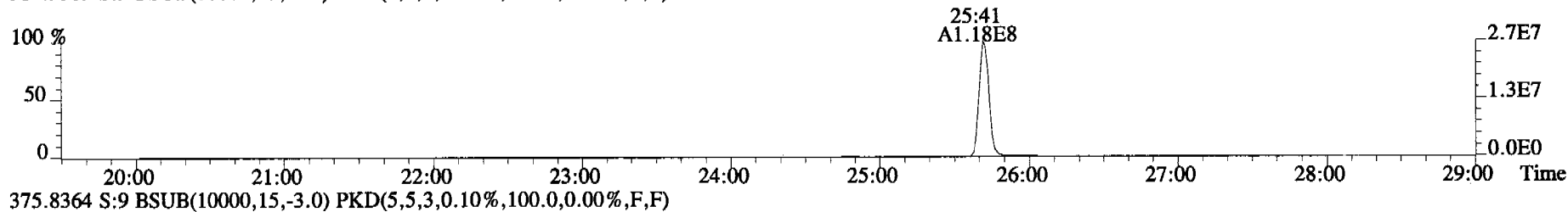
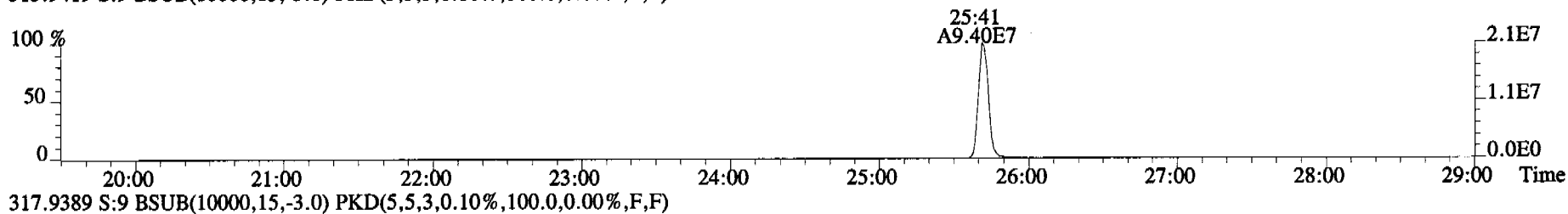
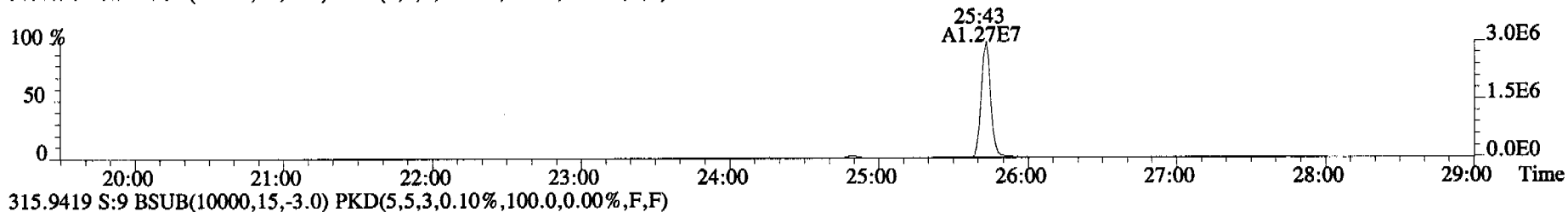
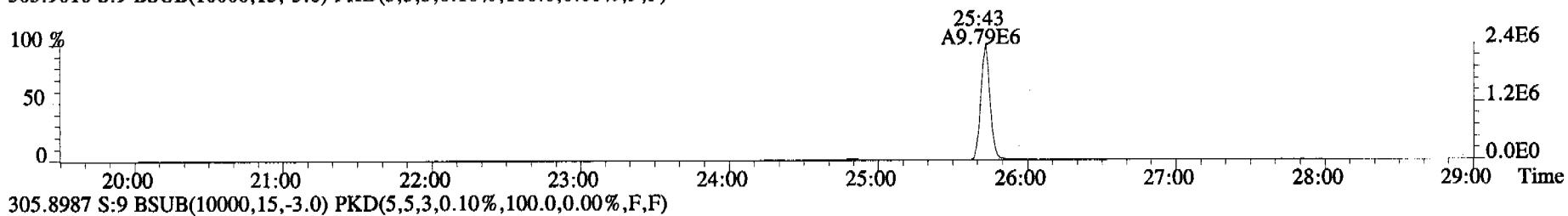
471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



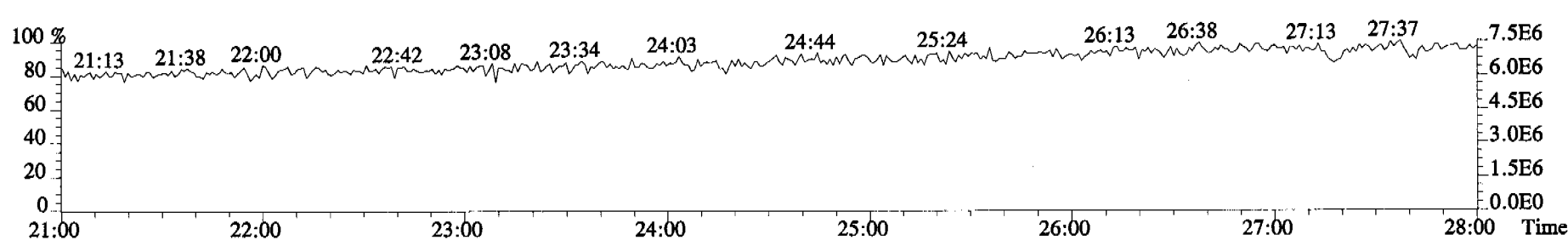
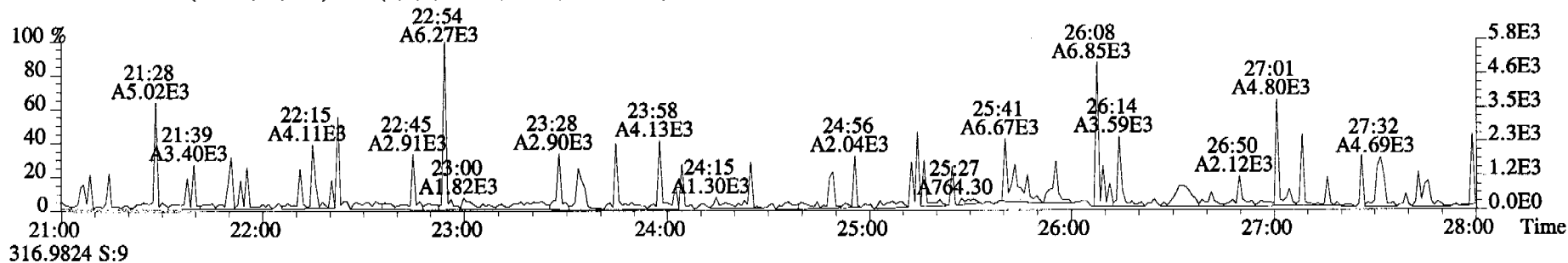
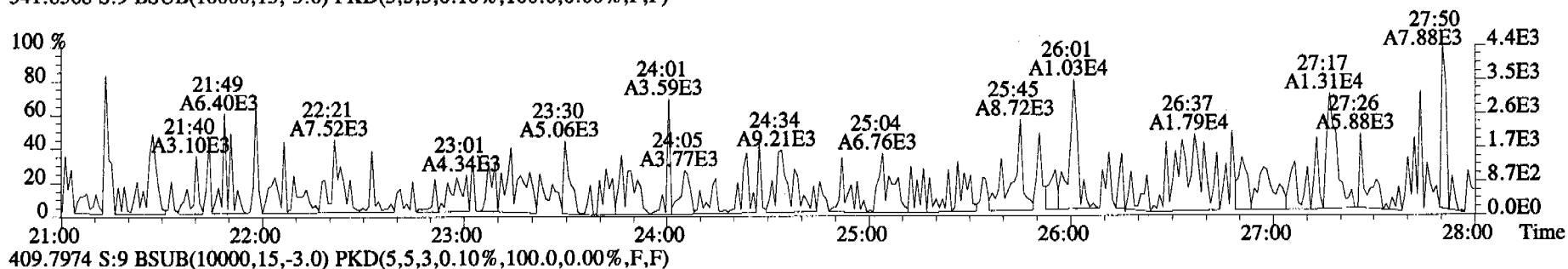
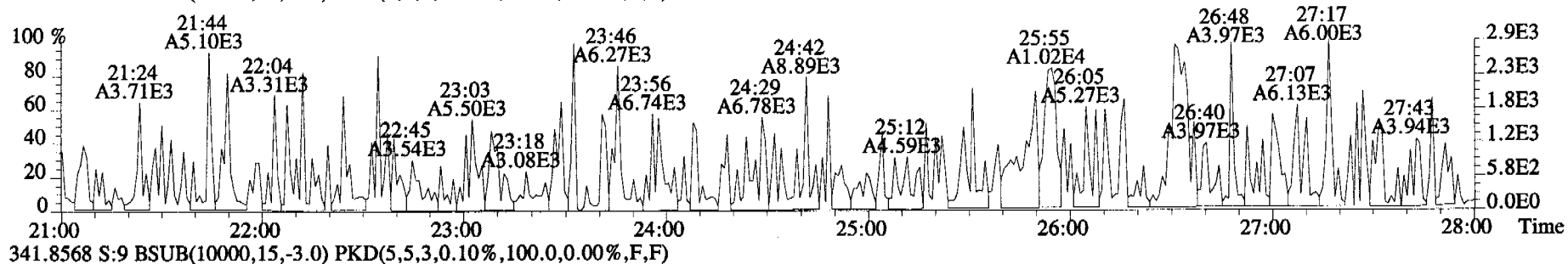
454.9728 S:9 F:5



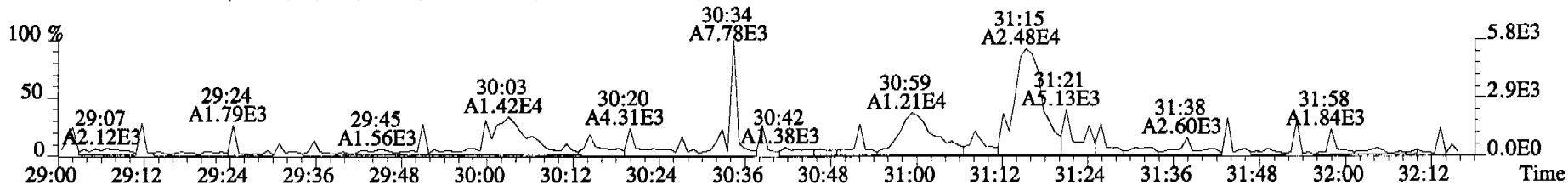
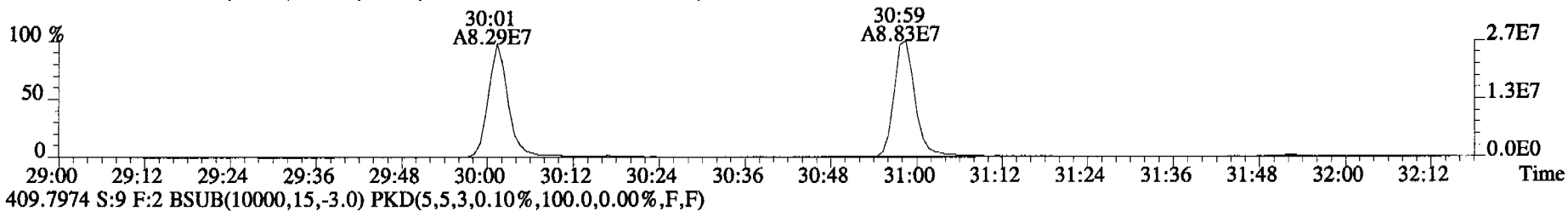
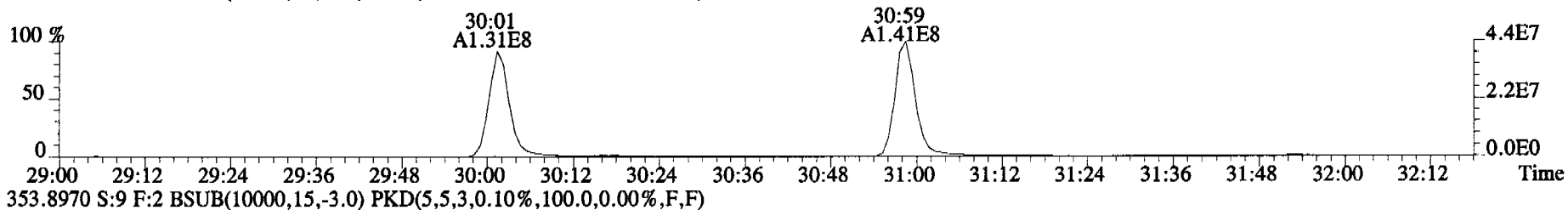
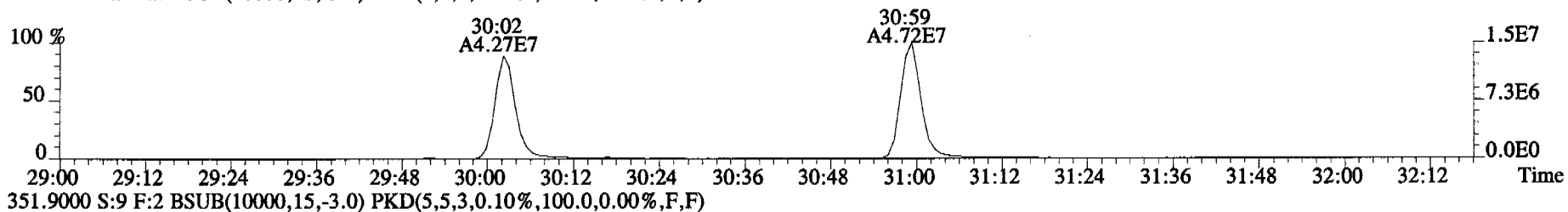
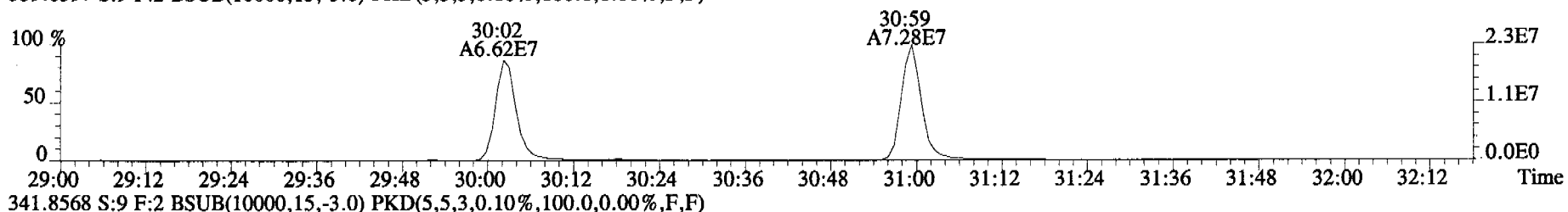
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



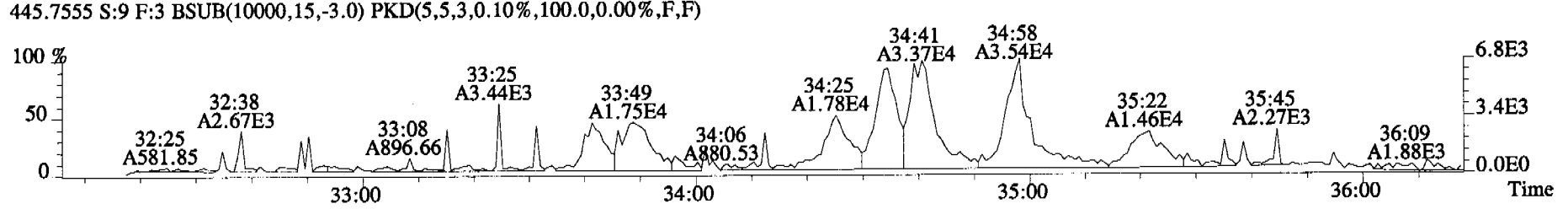
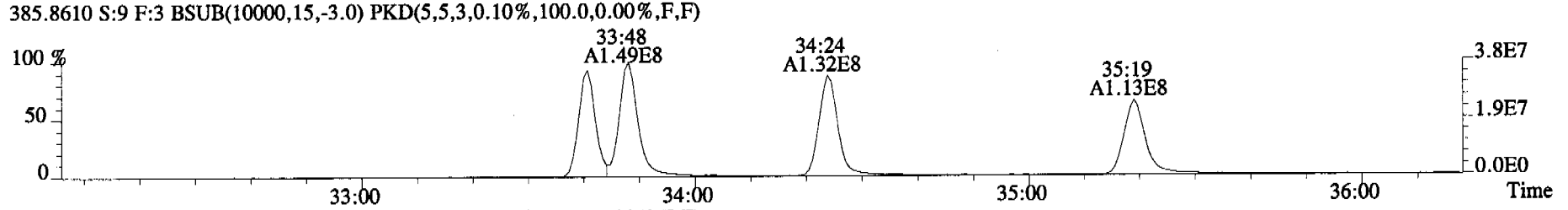
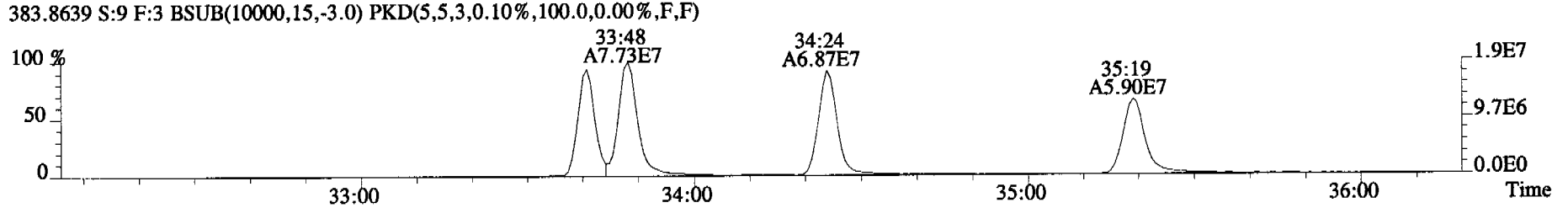
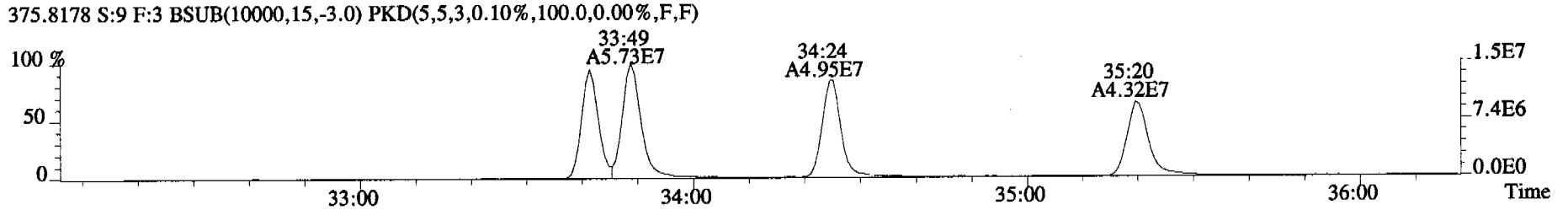
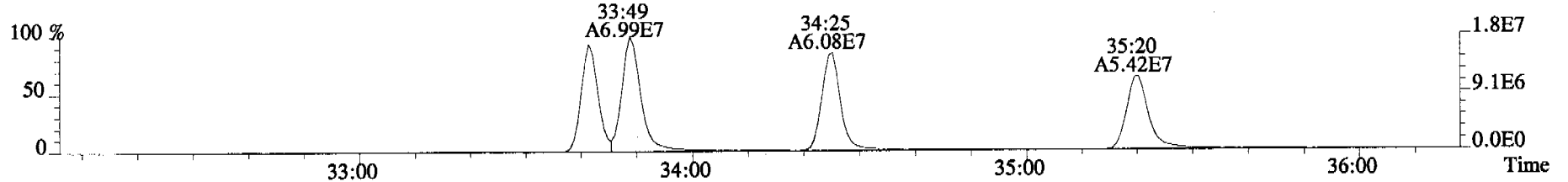
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



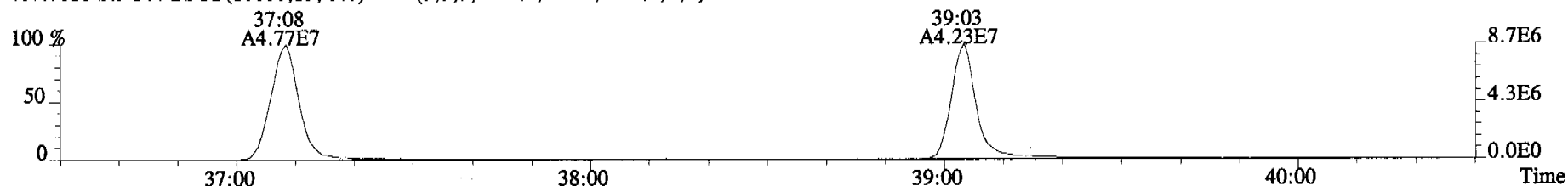
File:060322C1 #1-316 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



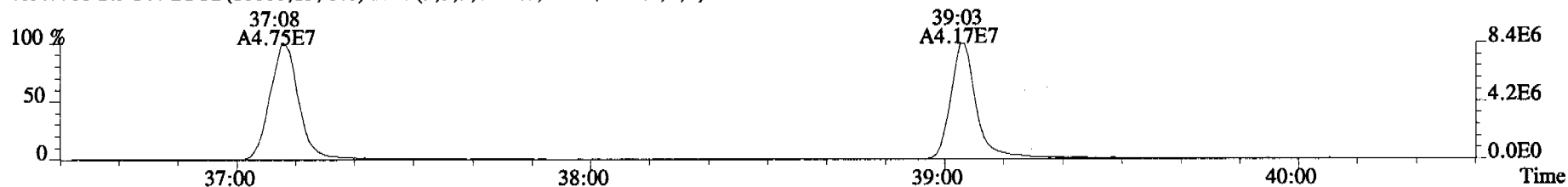
File:060322C1 #1-377 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



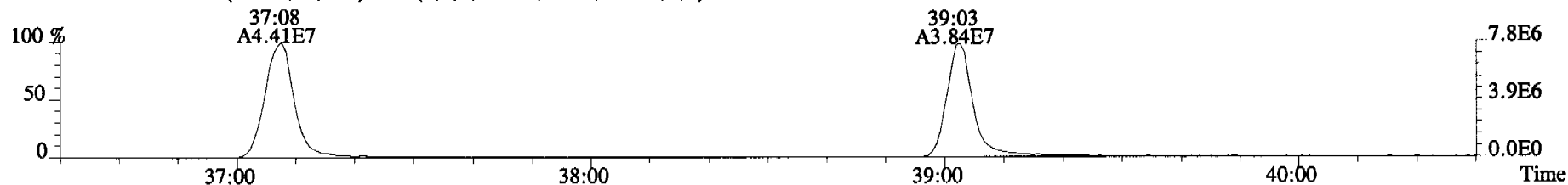
File:060322C1 #1-400 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



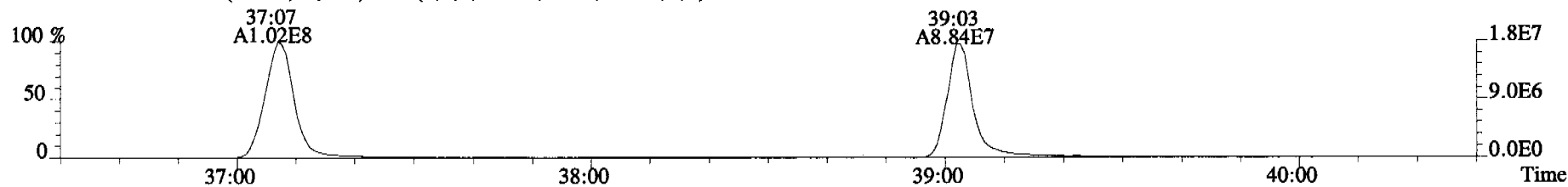
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



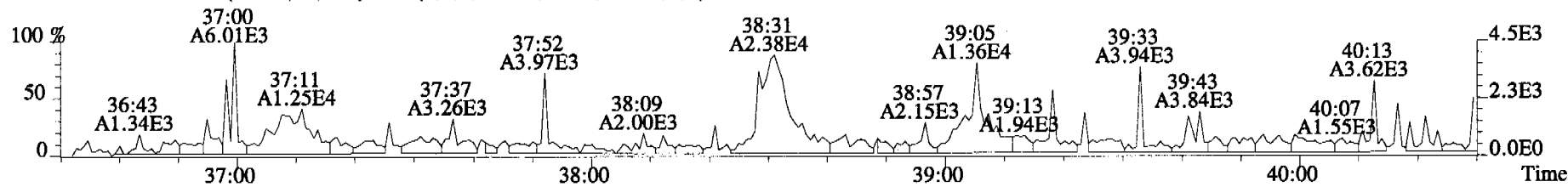
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



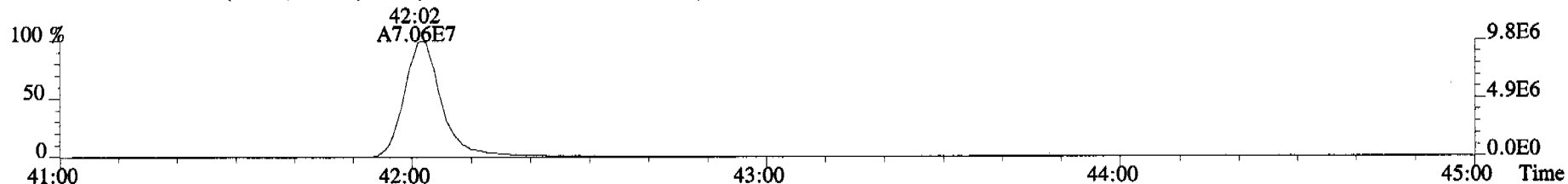
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



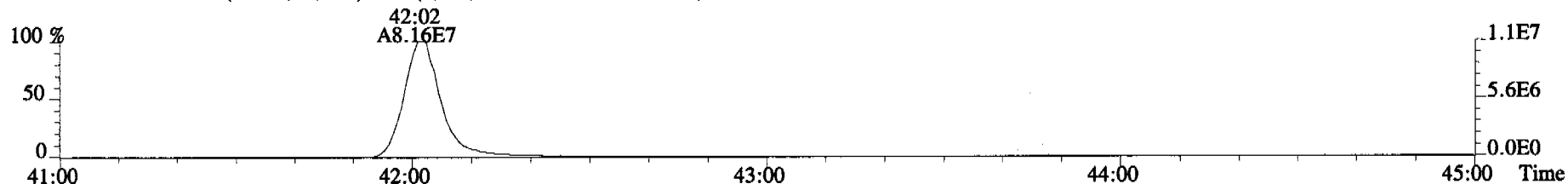
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



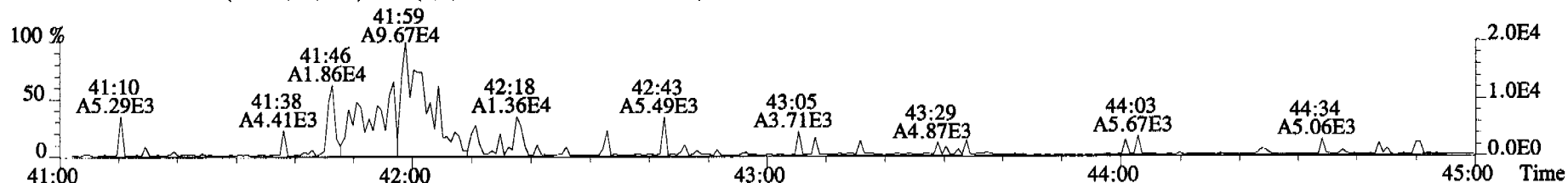
File:060322C1 #1-345 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



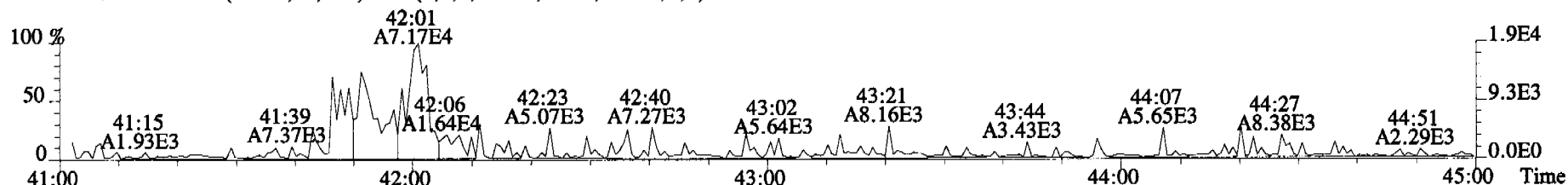
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



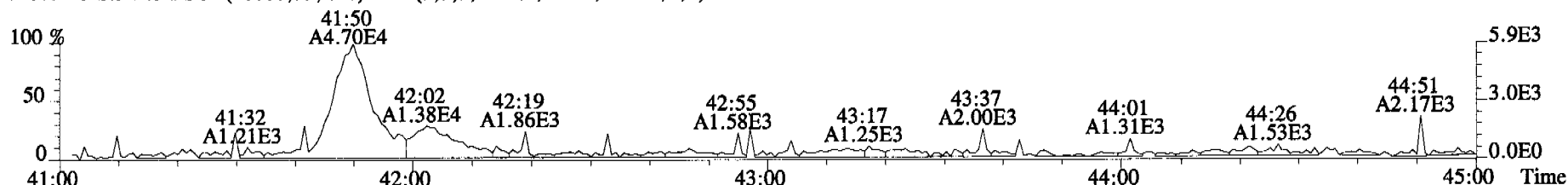
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/14/06
Received: 09/14/06
Issued: 09/26/06 14:45

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPI1290-01

CLIENT ID
P-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI1290

Sampled: 09/14/06
 Received: 09/14/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1290-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6118075	0.015	0.040	0.25	1	09/18/06	09/20/06	
Sample ID: IPI1290-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6118070	0.050	2.0	0.42	1	09/18/06	09/18/06	J
Arsenic	EPA 200.7	6118075	4.4	5.0	ND	1	09/18/06	09/20/06	
Beryllium	EPA 200.7	6118075	0.90	2.0	ND	1	09/18/06	09/20/06	
Cadmium	EPA 200.8	6118070	0.025	1.0	ND	1	09/18/06	09/18/06	
Chromium	EPA 200.7	6118075	2.0	5.0	ND	1	09/18/06	09/20/06	
Copper	EPA 200.8	6119133	0.25	2.0	0.71	1	09/19/06	09/20/06	B, J
Lead	EPA 200.8	6118070	0.040	1.0	0.20	1	09/18/06	09/18/06	J
Manganese	EPA 200.7	6118075	7.0	20	370	1	09/18/06	09/20/06	
Mercury	EPA 245.1	6115062	0.15	0.20	ND	1	09/15/06	09/15/06	
Nickel	EPA 200.7	6118075	2.0	10	ND	1	09/18/06	09/20/06	
Selenium	EPA 200.8	6118070	0.30	2.0	0.31	1	09/18/06	09/18/06	J
Silver	EPA 200.8	6118070	0.025	1.0	ND	1	09/18/06	09/18/06	
Thallium	EPA 200.8	6118070	0.15	1.0	ND	1	09/18/06	09/18/06	
Zinc	EPA 200.7	6118075	15	20	ND	1	09/18/06	09/20/06	

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Sampled: 09/14/06
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1290-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6115121	0.015	0.040	ND	1	09/15/06	09/23/06	
Sample ID: IPI1290-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6118073	0.050	2.0	0.51	1	09/18/06	09/18/06	J
Arsenic	EPA 200.7-Diss	6115121	4.4	5.0	ND	1	09/15/06	09/23/06	
Beryllium	EPA 200.7-Diss	6115121	0.90	2.0	ND	1	09/15/06	09/23/06	
Cadmium	EPA 200.8-Diss	6118073	0.025	1.0	ND	1	09/18/06	09/18/06	
Chromium	EPA 200.7-Diss	6115121	2.0	5.0	ND	1	09/15/06	09/23/06	
Copper	EPA 200.8-Diss	6118073	0.25	2.0	0.89	1	09/18/06	09/18/06	B, J
Lead	EPA 200.8-Diss	6118073	0.040	1.0	ND	1	09/18/06	09/18/06	
Manganese	EPA 200.7-Diss	6115121	7.0	20	85	1	09/15/06	09/23/06	
Mercury	EPA 245.1-Diss	6118082	0.15	0.20	ND	1	09/18/06	09/18/06	
Nickel	EPA 200.7-Diss	6115121	2.0	10	2.9	1	09/15/06	09/23/06	J
Selenium	EPA 200.8-Diss	6118073	0.30	2.0	0.52	1	09/18/06	09/18/06	J
Silver	EPA 200.8-Diss	6118073	0.025	1.0	ND	1	09/18/06	09/18/06	
Thallium	EPA 200.8-Diss	6118073	0.15	1.0	ND	1	09/18/06	09/18/06	
Zinc	EPA 200.7-Diss	6115121	15	20	ND	1	09/15/06	09/23/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1290-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I22108	N/A	NA	1.0	1	09/22/06	09/22/06	
Sample ID: IPI1290-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I25082	10	10	ND	1	09/25/06	09/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I20101	0.43	0.50	7.6	1	09/20/06	09/20/06	
Alkalinity as CaCO3	EPA 310.1	6I20071	2.0	2.0	140	1	09/20/06	09/20/06	
Ammonia-N (Distilled)	EPA 350.2	6I16057	0.30	0.50	0.56	1	09/16/06	09/16/06	
Hardness (as CaCO3)	SM2340B	6I18075	1.0	1.0	170	1	09/18/06	09/20/06	
Nitrate-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/14/06	
Nitrite-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/14/06	
Nitrate/Nitrite-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/14/06	
Oil & Grease	EPA 413.1	6I16001	0.89	4.7	ND	1	09/16/06	09/16/06	
Sulfate	EPA 300.0	6I15041	2.2	2.5	85	5	09/15/06	09/15/06	
Total Dissolved Solids	SM2540C	6I15073	10	10	360	1	09/15/06	09/15/06	
Total Organic Carbon	EPA 415.1	6I20132	0.50	1.0	10	1	09/20/06	09/20/06	
Total Suspended Solids	EPA 160.2	6I20128	10	10	ND	1	09/20/06	09/20/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1290-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I15115	0.040	1.0	3.4	1	09/15/06	09/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1290-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I15082	N/A	NA	7.48	1	09/15/06	09/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1290-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I15074	N/A	1.0	600	1	09/15/06	09/15/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: P-EFF (IPI1290-01) - Water					
EPA 150.1	1	09/14/2006 08:45	09/14/2006 18:15	09/15/2006 09:25	09/15/2006 10:45
EPA 180.1	2	09/14/2006 08:45	09/14/2006 18:15	09/15/2006 14:00	09/15/2006 15:35
EPA 300.0	2	09/14/2006 08:45	09/14/2006 18:15	09/14/2006 21:00	09/14/2006 22:34
Filtration	1	09/14/2006 08:45	09/14/2006 18:15	09/15/2006 16:50	09/15/2006 16:50

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 Received: 09/14/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15062 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15062-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/15/2006 (6I15062-BS1)											
Mercury	8.40	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)											
						Source: IPI1162-01					
Mercury	8.20	0.20	0.15	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)											
						Source: IPI1162-01					
Mercury	8.24	0.20	0.15	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6I18070 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18070-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18070-BS1)											
Antimony	78.2	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.0	1.0	0.025	ug/l	80.0		98	85-115			
Lead	79.6	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	78.8	2.0	0.30	ug/l	80.0		98	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	80.0	1.0	0.15	ug/l	80.0		100	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I18070 Extracted: 09/18/06											
Matrix Spike Analyzed: 09/18/2006 (6I18070-MS1)						Source: IPI1353-01					
Antimony	79.4	2.0	0.050	ug/l	80.0	0.053	99	70-130			
Cadmium	73.3	1.0	0.025	ug/l	80.0	ND	92	70-130			
Lead	75.8	1.0	0.040	ug/l	80.0	1.1	93	70-130			
Selenium	75.2	2.0	0.30	ug/l	80.0	ND	94	70-130			
Silver	72.3	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Analyzed: 09/18/2006 (6I18070-MS2)						Source: IPI1353-02					
Antimony	79.4	2.0	0.050	ug/l	80.0	ND	99	70-130			
Cadmium	73.0	1.0	0.025	ug/l	80.0	ND	91	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.8	94	70-130			
Selenium	75.4	2.0	0.30	ug/l	80.0	ND	94	70-130			
Silver	72.5	1.0	0.025	ug/l	80.0	ND	91	70-130			
Thallium	75.1	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 09/18/2006 (6I18070-MSD1)						Source: IPI1353-01					
Antimony	79.3	2.0	0.050	ug/l	80.0	0.053	99	70-130	0	20	
Cadmium	73.6	1.0	0.025	ug/l	80.0	ND	92	70-130	0	20	
Lead	75.6	1.0	0.040	ug/l	80.0	1.1	93	70-130	0	20	
Selenium	77.2	2.0	0.30	ug/l	80.0	ND	96	70-130	3	20	
Silver	72.3	1.0	0.025	ug/l	80.0	ND	90	70-130	0	20	
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130	0	20	
Batch: 6I18075 Extracted: 09/18/06											
Blank Analyzed: 09/20/2006 (6I18075-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I18075 Extracted: 09/18/06											
LCS Analyzed: 09/20/2006 (6I18075-BS1)											
Arsenic	484	5.0	4.4	ug/l	500		97	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	480	5.0	2.0	ug/l	500		96	85-115			
Iron	0.491	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	479	20	7.0	ug/l	500		96	85-115			
Nickel	475	10	2.0	ug/l	500		95	85-115			
Zinc	483	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01											
Arsenic	500	5.0	4.4	ug/l	500	4.7	99	70-130			
Beryllium	493	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	472	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.571	0.040	0.015	mg/l	0.500	0.095	95	70-130			
Manganese	534	20	7.0	ug/l	500	50	97	70-130			
Nickel	465	10	2.0	ug/l	500	ND	93	70-130			
Zinc	478	20	15	ug/l	500	ND	96	70-130			
Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01											
Arsenic	498	5.0	4.4	ug/l	500	4.9	99	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	473	5.0	2.0	ug/l	500	ND	95	70-130			
Iron	0.635	0.040	0.015	mg/l	0.500	0.15	97	70-130			
Manganese	576	20	7.0	ug/l	500	100	95	70-130			
Nickel	467	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	480	20	15	ug/l	500	ND	96	70-130			
Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01											
Arsenic	492	5.0	4.4	ug/l	500	4.7	97	70-130	2	20	
Beryllium	480	2.0	0.90	ug/l	500	ND	96	70-130	3	20	
Chromium	475	5.0	2.0	ug/l	500	ND	95	70-130	1	20	
Iron	0.566	0.040	0.015	mg/l	0.500	0.095	94	70-130	1	20	
Manganese	524	20	7.0	ug/l	500	50	95	70-130	2	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	1	20	
Zinc	475	20	15	ug/l	500	ND	95	70-130	1	20	

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Sampled: 09/14/06
 Received: 09/14/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I19133 Extracted: 09/19/06											
Blank Analyzed: 09/20/2006 (6I19133-BLK1)											
Copper	1.73	2.0	0.25	ug/l							J
LCS Analyzed: 09/20/2006 (6I19133-BS1)											
Copper	80.8	2.0	0.25	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 09/20/2006 (6I19133-MS1)											
						Source: IPI1286-01					
Copper	77.1	2.0	0.25	ug/l	80.0	0.82	95	70-130			
Matrix Spike Dup Analyzed: 09/20/2006 (6I19133-MSD1)											
						Source: IPI1286-01					
Copper	75.6	2.0	0.25	ug/l	80.0	0.82	93	70-130	2	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15121 Extracted: 09/15/06											
Blank Analyzed: 09/23/2006 (6I15121-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/23/2006 (6I15121-BS1)											
Arsenic	1040	5.0	4.4	ug/l	1000		104	85-115			
Beryllium	1040	2.0	0.90	ug/l	1000		104	85-115			
Chromium	1020	5.0	2.0	ug/l	1000		102	85-115			
Iron	1.03	0.040	0.015	mg/l	1.00		103	85-115			
Manganese	1030	20	7.0	ug/l	1000		103	85-115			
Nickel	1020	10	2.0	ug/l	1000		102	85-115			
Zinc	1040	20	15	ug/l	1000		104	85-115			
Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01											
Arsenic	1050	5.0	4.4	ug/l	1000	6.3	104	70-130			
Beryllium	1040	2.0	0.90	ug/l	1000	ND	104	70-130			
Chromium	1010	5.0	2.0	ug/l	1000	ND	101	70-130			
Iron	1.04	0.040	0.015	mg/l	1.00	0.032	101	70-130			
Manganese	1060	20	7.0	ug/l	1000	49	101	70-130			
Nickel	993	10	2.0	ug/l	1000	2.3	99	70-130			
Zinc	1030	20	15	ug/l	1000	36	99	70-130			
Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01											
Arsenic	1070	5.0	4.4	ug/l	1000	6.3	106	70-130	2	20	
Beryllium	1060	2.0	0.90	ug/l	1000	ND	106	70-130	2	20	
Chromium	1030	5.0	2.0	ug/l	1000	ND	103	70-130	2	20	
Iron	1.06	0.040	0.015	mg/l	1.00	0.032	103	70-130	2	20	
Manganese	1070	20	7.0	ug/l	1000	49	102	70-130	1	20	
Nickel	1020	10	2.0	ug/l	1000	2.3	102	70-130	3	20	
Zinc	1050	20	15	ug/l	1000	36	101	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I18073 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.303	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18073-BS1)											
Antimony	74.5	2.0	0.050	ug/l	80.0		93	85-115			
Cadmium	74.9	1.0	0.025	ug/l	80.0		94	85-115			
Copper	79.0	2.0	0.25	ug/l	80.0		99	85-115			
Lead	80.4	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	77.2	2.0	0.30	ug/l	80.0		96	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	80.8	1.0	0.15	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1) Source: IPI1226-01											
Antimony	74.1	2.0	0.050	ug/l	80.0	0.22	92	70-130			
Cadmium	68.4	1.0	0.025	ug/l	80.0	0.096	85	70-130			
Copper	73.2	2.0	0.25	ug/l	80.0	6.8	83	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.067	94	70-130			
Selenium	76.1	2.0	0.30	ug/l	80.0	6.1	88	70-130			
Silver	69.4	1.0	0.025	ug/l	80.0	ND	87	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2) Source: IPI1286-01											
Antimony	76.7	2.0	0.050	ug/l	80.0	1.0	95	70-130			
Cadmium	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130			
Copper	74.3	2.0	0.25	ug/l	80.0	6.1	85	70-130			
Lead	76.3	1.0	0.040	ug/l	80.0	0.093	95	70-130			
Selenium	73.8	2.0	0.30	ug/l	80.0	0.77	91	70-130			
Silver	74.5	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	76.5	1.0	0.15	ug/l	80.0	0.36	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I18073 Extracted: 09/18/06											
Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)						Source: IPI1226-01					
Antimony	75.1	2.0	0.050	ug/l	80.0	0.22	94	70-130	1	20	
Cadmium	69.1	1.0	0.025	ug/l	80.0	0.096	86	70-130	1	20	
Copper	71.7	2.0	0.25	ug/l	80.0	6.8	81	70-130	2	20	
Lead	75.6	1.0	0.040	ug/l	80.0	0.067	94	70-130	0	20	
Selenium	77.3	2.0	0.30	ug/l	80.0	6.1	89	70-130	2	20	
Silver	70.2	1.0	0.025	ug/l	80.0	ND	88	70-130	1	20	
Thallium	74.4	1.0	0.15	ug/l	80.0	ND	93	70-130	1	20	
Batch: 6I18082 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18082-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18082-BS1)											
Mercury	8.42	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)						Source: IPI1321-01					
Mercury	8.28	0.20	0.15	ug/l	8.00	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)						Source: IPI1321-01					
Mercury	8.17	0.20	0.15	ug/l	8.00	ND	102	70-130	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I14139 Extracted: 09/14/06											
Blank Analyzed: 09/14/2006 (6I14139-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
LCS Analyzed: 09/14/2006 (6I14139-BS1)											
Nitrate-N	1.09	0.15	0.080	mg/l	1.13		96	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13	ND	100	80-120			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52	ND	95	80-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01											
Nitrate-N	1.14	0.15	0.080	mg/l	1.13	ND	101	80-120	1	20	
Nitrite-N	1.46	0.15	0.080	mg/l	1.52	ND	96	80-120	1	20	
Batch: 6I15041 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15041-BLK1)											
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/15/2006 (6I15041-BS1)											
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02											
Sulfate	183	2.5	2.2	mg/l	10.0	180	30	80-120			M-HA

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I15041 Extracted: 09/15/06</u>											
Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)						Source: IPI1302-02					
Sulfate	184	2.5	2.2	mg/l	10.0	180	40	80-120	1	20	M-HA
<u>Batch: 6I15073 Extracted: 09/15/06</u>											
Blank Analyzed: 09/15/2006 (6I15073-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/15/2006 (6I15073-BS1)											
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/15/2006 (6I15073-DUP1)						Source: IPI1076-01					
Total Dissolved Solids	1480	10	10	mg/l		1500			1	10	
<u>Batch: 6I15074 Extracted: 09/15/06</u>											
Duplicate Analyzed: 09/15/2006 (6I15074-DUP1)						Source: IPI1120-01					
Specific Conductance	1820	1.0	N/A	umhos/cm		1800			1	5	
<u>Batch: 6I15082 Extracted: 09/15/06</u>											
Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)						Source: IPI1268-01					
pH	6.87	NA	N/A	pH Units		6.85			0	5	
Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)						Source: IPI1293-01					
pH	7.55	NA	N/A	pH Units		7.54			0	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I15115 Extracted: 09/15/06</u>											
Blank Analyzed: 09/15/2006 (6I15115-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)											
Turbidity	3.33	1.0	0.040	NTU		3.4			2	20	
Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)											
Turbidity	1.63	1.0	0.040	NTU		1.6			2	20	
<u>Batch: 6I16001 Extracted: 09/16/06</u>											
Blank Analyzed: 09/16/2006 (6I16001-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/16/2006 (6I16001-BS1)											
Oil & Grease	17.9	5.0	0.94	mg/l	20.0		90	65-120			M-NRI
LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120	1	20	
<u>Batch: 6I16057 Extracted: 09/16/06</u>											
Blank Analyzed: 09/16/2006 (6I16057-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/16/2006 (6I16057-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I16057 Extracted: 09/16/06</u>											
Matrix Spike Analyzed: 09/16/2006 (6I16057-MS1)						Source: IPI1286-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 09/16/2006 (6I16057-MSD1)						Source: IPI1286-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120	0	15	
<u>Batch: 6I18075 Extracted: 09/18/06</u>											
Blank Analyzed: 09/20/2006 (6I18075-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6I20071 Extracted: 09/20/06</u>											
Duplicate Analyzed: 09/20/2006 (6I20071-DUP1)						Source: IPI1125-01					
Alkalinity as CaCO3	348	2.0	2.0	mg/l		350			1	20	
Reference Analyzed: 09/20/2006 (6I20071-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			
<u>Batch: 6I20101 Extracted: 09/20/06</u>											
Blank Analyzed: 09/20/2006 (6I20101-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/20/2006 (6I20101-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I20101 Extracted: 09/20/06</u>											
LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1)											
						Source: IPI1210-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1)											
						Source: IPI1210-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	6	15	
<u>Batch: 6I20128 Extracted: 09/20/06</u>											
Blank Analyzed: 09/20/2006 (6I20128-BLK2)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/20/2006 (6I20128-BS2)											
Total Suspended Solids	1040	10	10	mg/l	1000		104	85-115			
Duplicate Analyzed: 09/20/2006 (6I20128-DUP2)											
						Source: IPI1285-02					
Total Suspended Solids	2270	10	10	mg/l		2100			8	10	
<u>Batch: 6I20132 Extracted: 09/20/06</u>											
Blank Analyzed: 09/20/2006 (6I20132-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/20/2006 (6I20132-BS1)											
Total Organic Carbon	9.91	1.0	0.25	mg/l	10.0		99	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I20132 Extracted: 09/20/06</u>											
Matrix Spike Analyzed: 09/20/2006 (6I20132-MS1)						Source: IPI1372-02					
Total Organic Carbon	5.71	1.0	0.25	mg/l	5.00	1.0	94	80-120			
Matrix Spike Dup Analyzed: 09/20/2006 (6I20132-MSD1)						Source: IPI1372-02					
Total Organic Carbon	5.67	1.0	0.25	mg/l	5.00	1.0	93	80-120	1	20	
<u>Batch: 6I22108 Extracted: 09/22/06</u>											
Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)						Source: IPI0964-02					
Density	0.999	NA	N/A	g/cc		1.0			0	20	

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
1613A/1613B	Water		
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Alta Analytical NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPI1290-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin
 Project Manager

PL 240

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		ANALYSIS REQUIRED		Field readings: Temp = 69 pH = 7.2 Comments	
Project Manager: Bronwyn Kelly Sampler: <i>BAW 611</i>		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* Zn, Hardness		Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* Zn Ammonia-N (NH3-N) Conductivity Turbidity, TSS SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) Total Kjeldahl Nitrogen Oil & Grease (EPA 413.1) Total Organic Carbon Sediments Concentration (ASTM Method) Alkalinity, Suspended Solids, pH	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative		Bottle #
P-EFF	W	Poly-1L	1	<i>9/14/06 1500</i>	HNO3		1
P-EFF	W	Poly-1L	1		None		2
P-EFF	W	VOAs	2		HCl		3A, 3B
P-EFF	W	1L Amber	2		HCl		4A, 4B
P-EFF	W	Poly-500 ml	1		H2SO4		5
P-EFF	W	Poly-500 ml	1		None		6
P-EFF	W	Poly-500 ml	2		None		7A, 7B
P-EFF	W	Poly-500 ml	1		H2SO4		8
P-EFF	W	Poly-1L	1		None		9
P-EFF	W	1L Amber	2		None		10A, 10B
Relinquished By <i>Kirby</i>	Date/Time: 9-14-06 1500	Received By <i>WJ</i>	Date/Time: 9-14-06 1500	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>			
Relinquished By <i>WJ</i>	Date/Time: 9-14-06 1815	Received By <i>Echam</i>	Date/Time: 9/14/06 1815	Perchlorate Only 72 Hours _____			
Relinquished By	Date/Time:	Received By	Date/Time:	Metals Only 72 Hours _____			
				Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>		<i>201210C</i>	



September 21, 2006

Alta Project I.D.: 28113

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on September 16, 2006 under your Project Name "IPI1290". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 9/16/2006

Alta Lab. ID

Client Sample ID

28113-001

IPI1290-01

SECTION II

Method Blank					EPA Method 1613				
Matrix:	Aqueous	QC Batch No.:	8381	Lab Sample:	0-MB001	Date Analyzed DB-5:	20-Sep-06	Date Analyzed DB-225:	NA
Sample Size:	1.00 L	Date Extracted:	18-Sep-06						
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers	
2,3,7,8-TCDD	ND	0.00000120			IS 13C-2,3,7,8-TCDD	80.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.00000185			13C-1,2,3,7,8-PeCDD	71.4	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.00000114			13C-1,2,3,4,7,8-HxCDD	83.4	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.00000119			13C-1,2,3,6,7,8-HxCDD	82.7	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.00000113			13C-1,2,3,4,6,7,8-HpCDD	77.1	23 - 140		
1,2,3,4,6,7,8-HpCDD	ND	0.00000251			13C-OCDD	70.2	17 - 157		
OCDD	ND	0.00000489			13C-2,3,7,8-TCDF	80.1	24 - 169		
2,3,7,8-TCDF	ND	0.00000133			13C-1,2,3,7,8-PeCDF	72.7	24 - 185		
1,2,3,7,8-PeCDF	ND	0.00000197			13C-2,3,4,7,8-PeCDF	65.5	21 - 178		
2,3,4,7,8-PeCDF	ND	0.00000201			13C-1,2,3,4,7,8-HxCDF	89.4	26 - 152		
1,2,3,4,7,8-HxCDF	ND	0.000000613			13C-1,2,3,6,7,8-HxCDF	85.1	26 - 123		
1,2,3,6,7,8-HxCDF	ND	0.000000579			13C-2,3,4,6,7,8-HxCDF	80.1	28 - 136		
2,3,4,6,7,8-HxCDF	ND	0.000000710			13C-1,2,3,7,8,9-HxCDF	63.8	29 - 147		
1,2,3,7,8,9-HxCDF	ND	0.00000163			13C-1,2,3,4,6,7,8-HpCDF	70.3	28 - 143		
1,2,3,4,6,7,8-HpCDF	ND	0.00000121			13C-1,2,3,4,7,8,9-HpCDF	58.0	26 - 138		
1,2,3,4,7,8,9-HpCDF	ND	0.00000160			13C-OCDF	56.7	17 - 157		
OCDF	ND	0.00000380			CRS 37Cl-2,3,7,8-TCDD	81.7	35 - 197		
Totals					Footnotes				
Total TCDD	ND	0.00000120			a. Sample specific estimated detection limit.				
Total PeCDD	ND	0.00000432			b. Estimated maximum possible concentration.				
Total HxCDD	ND	0.00000116			c. Method detection limit.				
Total HpCDD	ND	0.00000251			d. Lower control limit - upper control limit.				
Total TCDF	ND	0.00000133							
Total PeCDF	ND	0.00000342							
Total HxCDF	ND	0.000000802							
Total HpCDF	ND	0.00000137							

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:59

OPR Results				EPA Method 1613			
Matrix:	Aqueous	QC Batch No.:	8381	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	18-Sep-06	Date Analyzed DB-5:	20-Sep-06	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	
2,3,7,8-TCDD	10.0	9.99	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	72.8	25 - 164	
1,2,3,7,8-PeCDD	50.0	48.5	35 - 71	13C-1,2,3,7,8-PeCDD	62.1	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	46.7	35 - 82	13C-1,2,3,4,7,8-HxCDD	79.6	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	48.1	38 - 67	13C-1,2,3,6,7,8-HxCDD	76.6	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	47.4	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	76.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	51.3	35 - 70	13C-OCDD	68.9	17 - 157	
OCDD	100	99.3	78 - 144	13C-2,3,7,8-TCDF	76.1	24 - 169	
2,3,7,8-TCDF	10.0	9.77	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	62.3	24 - 185	
1,2,3,7,8-PeCDF	50.0	51.9	40 - 67	13C-2,3,4,7,8-PeCDF	59.0	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.8	34 - 80	13C-1,2,3,4,7,8-HxCDF	77.8	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	51.8	36 - 67	13C-1,2,3,6,7,8-HxCDF	75.4	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	50.6	42 - 65	13C-2,3,4,6,7,8-HxCDF	76.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	50.1	35 - 78	13C-1,2,3,7,8,9-HxCDF	54.3	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.3	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	64.1	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	51.1	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	58.8	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	52.3	39 - 69	13C-OCDF	58.1	17 - 157	
OCDF	100	105	63 - 170	CRS 37Cl-2,3,7,8-TCDD	81.1	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:59

Sample ID: IPI1290-01					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	Test America-Irvine		Matrix:	Aqueous	Lab Sample:	28113-001	Date Received:	16-Sep-06
Project:	IPI1290		Sample Size:	0.990 L	QC Batch No.:	8381	Date Extracted:	18-Sep-06
Date Collected:	14-Sep-06				Date Analyzed DB-5:	21-Sep-06	Date Analyzed DB-225:	NA
Time Collected:	0845							
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000128			IS 13C-2,3,7,8-TCDD	50.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000296			13C-1,2,3,7,8-PeCDD	44.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000240			13C-1,2,3,4,7,8-HxCDD	49.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000237			13C-1,2,3,6,7,8-HxCDD	51.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000230			13C-1,2,3,4,6,7,8-HpCDD	60.1	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000915			13C-OCDD	59.8	17 - 157	
OCDD	0.0000384			J	13C-2,3,7,8-TCDF	51.8	24 - 169	
2,3,7,8-TCDF	ND	0.00000175			13C-1,2,3,7,8-PeCDF	55.5	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000177			13C-2,3,4,7,8-PeCDF	39.1	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000232			13C-1,2,3,4,7,8-HxCDF	67.4	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000564			13C-1,2,3,6,7,8-HxCDF	54.9	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000676			13C-2,3,4,6,7,8-HxCDF	48.8	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000970			13C-1,2,3,7,8,9-HxCDF	46.4	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000199			13C-1,2,3,4,6,7,8-HpCDF	50.1	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000306			13C-1,2,3,4,7,8,9-HpCDF	56.1	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000164			13C-OCDF	52.7	17 - 157	
OCDF	ND	0.00000629			CRS 37Cl-2,3,7,8-TCDD	65.1	35 - 197	
Totals					Footnotes			
Total TCDD	ND	0.00000128			a. Sample specific estimated detection limit.			
Total PeCDD	ND		0.00000135		b. Estimated maximum possible concentration.			
Total HxCDD	ND	0.00000397			c. Method detection limit.			
Total HpCDD	0.00000661				d. Lower control limit - upper control limit.			
Total TCDF	ND	0.00000175						
Total PeCDF	ND	0.00000200						
Total HxCDF	ND	0.000000950						
Total HpCDF	ND	0.00000335						

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:59

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical interference
J	The amount detected is below the Lower Calibration Limit of the instrument.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated Detection Limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that corresponds 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
State of Alaska, DEC	CA413-02
State of Arizona	AZ0639
State of Arkansas, DEQ	05-013-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	
State of Connecticut	PH-0182
State of Florida, DEP	E87777
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA050001
State of Louisiana, DEQ	01977
State of Maine	CA0413
State of Michigan	81178087
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	
State of Nevada	CA413
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-002
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	02996
State of Texas	TX247-2005A
U.S. Army Corps of Engineers	
State of Utah	9169330940
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPI1290 28113, 0.1^{OC}

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical
1104 Windfield Way
El Dorado Hills, CA 95762
Phone: (916) 933-1640
Fax: (916) 673-0106

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPI1290-01 1613-Dioxin-HR-Alta	Water 09/21/06 08:45	Sampled: 09/14/06 08:45 J flags, 17 cngnrs, no TEQ, ug/L, sub=Alta, Boeing EDD

Containers Supplied:

- 1 L Amber (IPI1290-01M)
- 1 L Amber (IPI1290-01N)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No *N/A*
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 0.1^{OC}

~~Released By: _____ Date: 9/15/06 Time: _____ Received By: *Michele Chamberlin* Date: 9/16/06 Time: 0830~~

Released By _____ Date _____ Time _____ Received By _____ Date _____ Time _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 28113

TAT Standard

Samples Arrival:	Date/Time <u>9/16/06 0830</u>	Initials: <u>MT</u>	Location: <u>WR+2</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>9/16/06 0931</u>	Initials: <u>FEB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>C-3</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> Cal
	<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	<u>0.1°</u>	Time: <u>0840</u>	Thermometer ID: <u>DT-20</u>

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
<u>Airbill</u> Trk # <u>7911 2401 9082</u>	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?			✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Na ₂ S ₂ O ₃ Preservation Documented?			<u>None</u>
Shipping Container	Alta	<u>Client</u>	Retain
			<u>Return</u>
			<u>Dispose</u>

Comments:

EXTRACTION INFORMATION

PROCESS SHEET

Project No.-AR: 28113-1 of 1

Prep Due: 9/27/2006

Project Due: 10/7/2006

Hold Due: 9/14/2007

TAT: 21

Client: Test America-Irvine(TEACA01B)

Client Manager: Martha M. Maier

Method: EPA Method 1613 | PCDD/F (Tetra - Octa)

8381

Split Type:

Matrix: Aqueous

LabID	Recon	Client-ID	Description	Date Received	SLoc	Shelf
001	<input checked="" type="checkbox"/>	IPI1290-01		9/16/2006	WR-2	C-3

Instructions:

ugL; no TEQ

Report Options

Report Level:

TEQ Type: :

EDD Type:

Report Group: Dioxins NoMDL

Samples Reconciled By:

TEH 9/17/06

Vial Box ID:

Drag

Project 28113

Aqueous Sample Size Determination



Alta Analytical Laboratory
HRMS Services
El Dorado Hills, CA 95762

Project: 28113-1

Sample ID	Container Weight (g)		Sample Wt (g)
	Full	Empty	
1	1489.94	499.55	990.39

Procedure:

- Tare the balance.
- Record weight of bottle/cap and sample.
- If all of the sample is used, drain overnight.
- Tare the balance.
- Record weight of empty bottle/cap.
- Enter Sample Weight in HALs and on the Extraction Sheet*.

* Record in 'Liters', rounded to 3 decimal places; assumes density of 1 g/mL.

Notes:

Project: 28113

Extraction Set: 8381

Chemist: T. HORNER 9/18/06

Method(s): EPA Method 1613 | 2,3,7,8s Only

C	ALTA Sample ID	G Eqv	Sample Amt. (L)	IS/NS CHEM/ WIT DATE	CRS CHEM/WIT DATE	AP CHEM/Date	ABSG CHEM/Date	AA CHEM/Date	Florisol CHEM/Date	RS CHEM/WIT DATE
<input type="checkbox"/>	0_8381_MB001	NA	1.00	TEH 9/18/06	TEH MDH 9/18/06	NA	TEH 9/19/06	TEH 9/18/06	TEH 9/18/06	TEH FEB 9/19/06
<input type="checkbox"/>	0_8381_OPR001	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	28113_8381_001	↓	0.990	↓	↓	↓	↓	↓	↓	↓

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP.: SEFUN SOX	Check Out:
PCDD/F <u>10µl 060110 A</u> (V2)	PCDD/F <u>10µl 060110 B</u> (V4)	PCDD/F <u>10µl 060110 C</u> (V3)	PCDD/F <u>10µl 060110 D</u> (V3)	9/8 Start: 1230 9/9 Stop: 0430	SDS	TEH 9/18/06
PCB	PCB	PCB	PCB		SOLV: TOL	Check-In:
					Other: SPE	Empty 9/18/06
PAH	PAH	PAH	PAH		Final Volume(s): <u>20µl C44</u>	

Comments:

Project 28113 Page 6 of 232

CALIBRATION DATA

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-1

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

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	0.79	0.65-0.89	y	9.37	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	45.4	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	47.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.8	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.9	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	49.1	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	93.2	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.51	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	48.6	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	48.4	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	48.4	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	47.2	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.3	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.8	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: miDate: 9/20/06

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)	
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	99.0	82.0 - 121.0 85.0 - 117.0 (5)	(1) See Table 8, Method 1613, for m/z specifications.
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	92.4	62.0 - 160.0	
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	100	85.0 - 117.0	(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	111	85.0 - 118.0	
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	113	72.0 - 138.0	(3) Contract-required concentration range, as specified in Table 6, Method 1613.
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	235	96.0 - 415.0	(4) No ion abundance ratio; report concentration found.
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	110	71.0 - 140.0 76.0 - 131.0 (5)	(5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only.
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	102	76.0 - 130.0	
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	97.6	77.0 - 130.0	
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	111	76.0 - 131.0	
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	98.9	70.0 - 143.0	
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	99.4	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/M+2	0.45	0.37-0.51	y	109	78.0 - 129.0	
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	111	77.0 - 129.0	
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	216	96.0 - 415.0	

CLEANUP STANDARD (4)

37C1-2,3,7,8-TCDD 9.32 7.9 - 12.7
8.3 - 12.1 (5)

Analyst: MS

Date: 9/20/06

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-5 Initial Calibration Date: 3/22/06

RT Window Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

DB-5 IS Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

DB_225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:13	1,3,6,8-TCDF (F)	20:07
1,2,8,9-TCDD (L)	27:25	1,2,8,9-TCDF (L)	27:35
1,2,4,7,9-PeCDD (F)	29:12	1,3,4,6,8-PeCDF (F)	27:31
1,2,3,8,9-PeCDD (L)	31:49	1,2,3,8,9-PeCDF (L)	32:04
1,2,4,6,7,9-HxCDD (F)	33:16	1,2,3,4,6,8-HxCDF (F)	32:43
1,2,3,7,8,9-HxCDD (L)	35:09	1,2,3,7,8,9-HxCDF (L)	35:31
1,2,3,4,6,7,9-HpCDD (F)	37:37	1,2,3,4,6,7,8-HpCDF (F)	37:14
1,2,3,4,6,7,8-HpCDD (L)	38:40	1,2,3,4,7,8,9-HpCDF (L)	39:15

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5).

=====

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: IN

Date: 9/20/06

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	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-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.027	0.976-1.043
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.028	0.989-1.052
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.173	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.211	1.011-1.526
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.222	1.000-1.567

Analyst: ms

Date: 9/20/06

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

Compounds Using 13C-123789-HxCDD as Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE	RRT	QC LIMITS (1)	
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001	(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005	
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001	
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001	
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004	
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.009	1.000-1.019	
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	

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.964	0.944-0.970
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.968	0.949-0.975
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.984	0.959-1.021
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDD	1.011	0.977-1.047
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.989	0.977-1.000
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.992	0.981-1.003
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.060	1.043-1.085
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,7,8,9-HxCDD	1.100	1.086-1.110
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.117	1.057-1.151
13C-OCDD	13C-1,2,3,7,8,9-HxCDD	1.191	1.032-1.311
13C-OCDF	13C-1,2,3,7,8,9-HxCDD	1.197	1.032-1.311

Analyst: MS

Date: 9/20/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-1

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC.
						RANGE (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	9.37	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	45.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	47.7	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.8	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	43.9	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	49.1	40.0 - 60.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	93.2	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.51	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.3	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	48.6	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	48.4	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	48.4	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	47.2	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.6	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.8	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.3	40.0 - 60.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.8	80.0 - 120

Analyst: msDate: 9/20/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#1 Analysis Date: 20-SEP-06 Time: 15:15:02

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	99.0	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	92.4	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	100	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	111	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	113	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	235	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	110	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	102	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	97.6	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	111	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	98.9	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	99.4	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	102	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	109	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	111	70.0 - 130
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	216	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.32	7.00 - 13.0

Analyst: msDate: 9/20/06

Client ID: 1613 CS3 060110H
Lab ID: ST060920C2-1

Filename: 060920C2
GC Column ID: db-5

S:1 Acq:20-SEP-06 15:15:02
Ical: 1613VG5-3-22-06

wt/vol: 1.000

ConCal: ST060920C2-1
EndCAL: ST060920C2-2

Page 1 of 1

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	5.49e+06	0.79 y	1.08	26:26	9.3694			* 2.5	*
1,2,3,7,8-PeCDD	2.26e+07	0.62 y	1.03	31:26	45.386			* 2.5	*
1,2,3,4,7,8-HxCDD	1.85e+07	1.22 y	1.13	34:44	47.733			* 2.5	*
1,2,3,6,7,8-HxCDD	2.14e+07	1.23 y	1.03	34:51	43.765			* 2.5	*
1,2,3,7,8,9-HxCDD	2.00e+07	1.23 y	1.12	35:09	43.917			* 2.5	*
1,2,3,4,6,7,8-HpCDD	1.97e+07	1.05 y	1.02	38:39	49.121			* 2.5	*
OCDD	3.40e+07	0.89 y	1.06	41:51	93.250			* 2.5	*
2,3,7,8-TCDF	7.22e+06	0.76 y	1.06	25:31	9.5148			* 2.5	*
1,2,3,7,8-PeCDF	3.50e+07	1.55 y	1.01	30:09	49.274			* 2.5	*
2,3,4,7,8-PeCDF	3.35e+07	1.58 y	1.02	31:08	48.551			* 2.5	*
1,2,3,4,7,8-HxCDF	2.90e+07	1.21 y	1.15	33:53	48.386			* 2.5	*
1,2,3,6,7,8-HxCDF	3.14e+07	1.22 y	1.14	34:00	48.378			* 2.5	*
2,3,4,6,7,8-HxCDF	2.85e+07	1.21 y	1.17	34:36	47.177			* 2.5	*
1,2,3,7,8,9-HxCDF	2.43e+07	1.19 y	1.10	35:31	48.599			* 2.5	*
1,2,3,4,6,7,8-HpCDF	2.67e+07	1.03 y	1.31	37:14	48.759			* 2.5	*
1,2,3,4,7,8,9-HpCDF	2.25e+07	1.02 y	1.33	39:15	48.273			* 2.5	*
OCDF	3.82e+07	0.90 y	0.91	42:03	99.847			* 2.5	*

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	51.814	52.279	*	*	*
Total Penta-Dioxins	136.21	136.60	*	*	*
Total Hexa-Dioxins	187.41	188.23	*	*	*
Total Hepta-Dioxins	97.872	98.813	*	*	*
Total Tetra-Furans	31.628	32.078	*	*	*
Total Penta-Furans	185.47	186.67	*	*	*
Total Hexa-Furans	245.23	247.32	*	*	*
Total Hepta-Furans	97.436	98.202	*	*	*

IS	13C-2,3,7,8-TCDD	5.42e+07	0.78 y	1.09	26:25	98.980
IS	13C-1,2,3,7,8-PeCDD	4.84e+07	0.62 y	1.04	31:25	92.393
IS	13C-1,2,3,4,7,8-HxCDD	3.42e+07	1.23 y	0.83	34:44	100.32
IS	13C-1,2,3,6,7,8-HxCDD	4.74e+07	1.25 y	1.04	34:50	110.78
IS	13C-1,2,3,4,6,7,8-HpCDD	3.95e+07	1.06 y	0.85	38:39	112.88
IS	13C-OCDD	6.91e+07	0.89 y	0.71	41:50	235.45
IS	13C-2,3,7,8-TCDF	7.14e+07	0.79 y	0.96	25:30	110.02
IS	13C-1,2,3,7,8-PeCDF	7.04e+07	1.58 y	1.02	30:08	102.23
IS	13C-2,3,4,7,8-PeCDF	6.74e+07	1.58 y	1.02	31:07	97.609
IS	13C-1,2,3,4,7,8-HxCDF	5.24e+07	0.52 y	1.14	33:52	111.18
IS	13C-1,2,3,6,7,8-HxCDF	5.69e+07	0.52 y	1.40	33:60	98.914
IS	13C-2,3,4,6,7,8-HxCDF	5.16e+07	0.52 y	1.26	34:35	99.387
IS	13C-1,2,3,7,8,9-HxCDF	4.57e+07	0.50 y	1.08	35:30	102.47
IS	13C-1,2,3,4,6,7,8-HpCDF	4.18e+07	0.45 y	0.93	37:13	108.64
IS	13C-1,2,3,4,7,8,9-HpCDF	3.51e+07	0.45 y	0.77	39:14	111.35
IS	13C-OCDF	8.40e+07	0.90 y	0.94	42:03	216.24

Rec Qual

99.0	
92.4	
100	
111	
113	
118	
110	
102	
97.6	
111	
98.9	
99.4	
102	
109	
111	
108	

C/Up	37C1-2,3,7,8-TCDD	3.62e+06		0.77	26:25	9.3191
RS/RT	13C-1,2,3,4-TCDD	5.02e+07	0.80 y	1.00	25:42	100.00
RS	13C-1,2,3,4-TCDF	6.77e+07	0.80 y	1.00	23:56	100.00
RS/RT	13C-1,2,3,7,8,9-HxCDD	4.11e+07	1.26 y	1.00	35:08	100.00

Integrations

by

Analyst: MS

Reviewed

by

Analyst: _____

Date: 9/20/06

Date: _____

Alta Analytical Laboratory - Injection Log Run file: 060920C2 Instrument ID: VG-5 GC Column ID: db-5

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
060920C2	1	ST060920C2-1	MAS	20-SEP-06	15:15:02	ST060920C2-1	ST060920C2-2
060920C2	2	0_8381_OPR001	MAS	20-SEP-06	16:04:31	ST060920C2-1	ST060920C2-2
060920C2	3	0_8382_OPR001	MAS	20-SEP-06	16:54:06	ST060920C2-1	ST060920C2-2
060920C2	4	SOLVENT BLANK	MAS	20-SEP-06	17:43:41	ST060920C2-1	ST060920C2-2
060920C2	5	0_8381_MB001	MAS	20-SEP-06	18:33:15	ST060920C2-1	ST060920C2-2
060920C2	6	0_8382_MB001	MAS	20-SEP-06	19:22:48	ST060920C2-1	ST060920C2-2
060920C2	7	28101_8381_001	MAS	20-SEP-06	20:12:26	ST060920C2-1	ST060920C2-2
060920C2	8	28101_8381_002	MAS	20-SEP-06	21:02:04	ST060920C2-1	ST060920C2-2
060920C2	9	28110_8381_001	MAS	20-SEP-06	21:51:37	ST060920C2-1	ST060920C2-2
060920C2	10	28111_8381_001	MAS	20-SEP-06	22:41:10	ST060920C2-1	ST060920C2-2
060920C2	11	28112_8381_001	MAS	20-SEP-06	23:30:43	ST060920C2-1	ST060920C2-2
060920C2	12	28113_8381_001	MAS	21-SEP-06	00:20:15	ST060920C2-1	ST060920C2-2
060920C2	13	28114_8381_001	MAS	21-SEP-06	01:09:54	ST060920C2-1	ST060920C2-2
060920C2	14	28074_8382_001	MAS	21-SEP-06	01:59:27	ST060920C2-1	ST060920C2-2
060920C2	15	SOLVENT BLANK	MAS	21-SEP-06	02:48:56	ST060920C2-1	ST060920C2-2
060920C2	16	ST060920C2-2	MAS	21-SEP-06	03:38:30	ST060920C2-1	ST060920C2-2

CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST060920C2-1

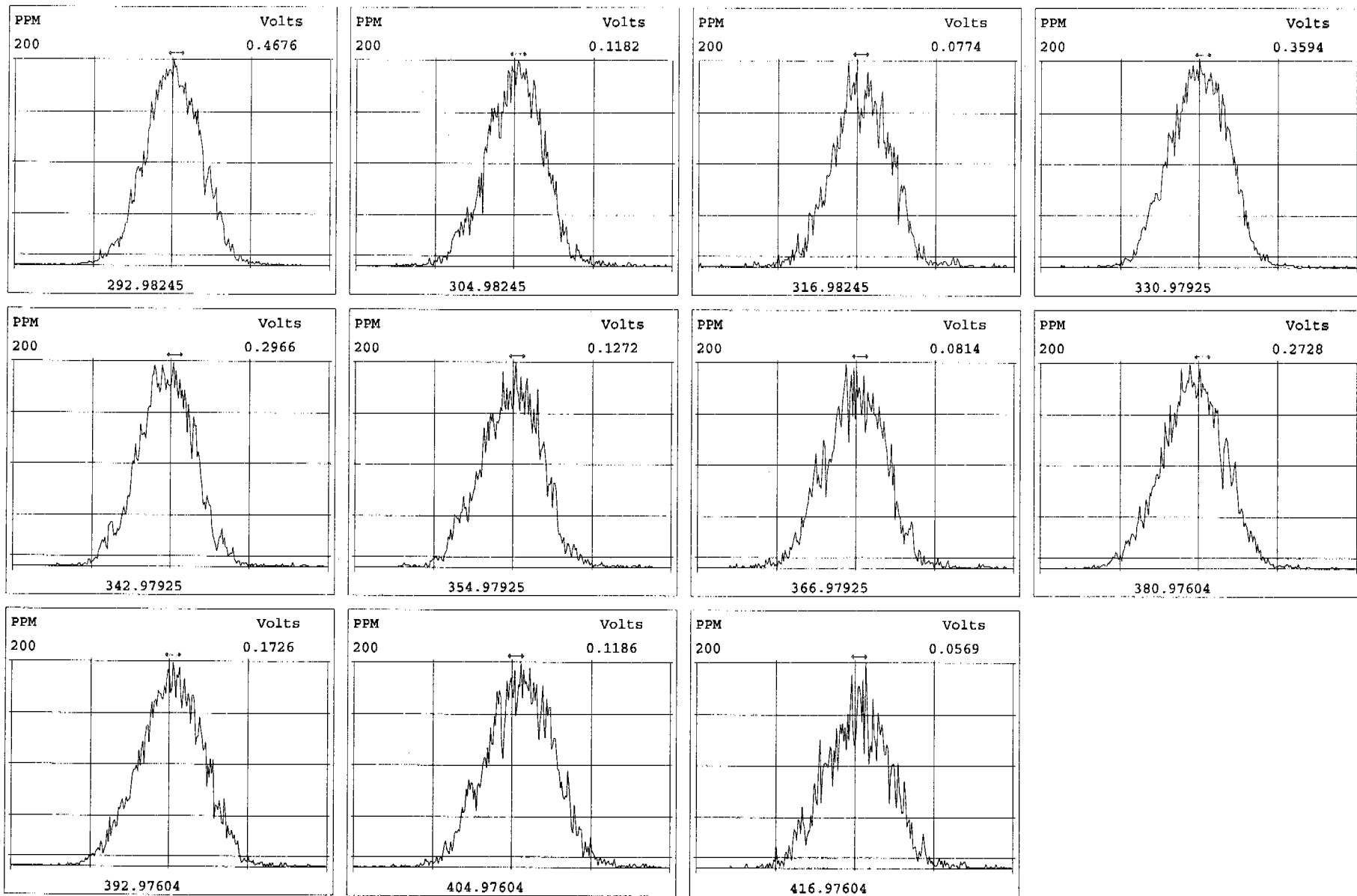
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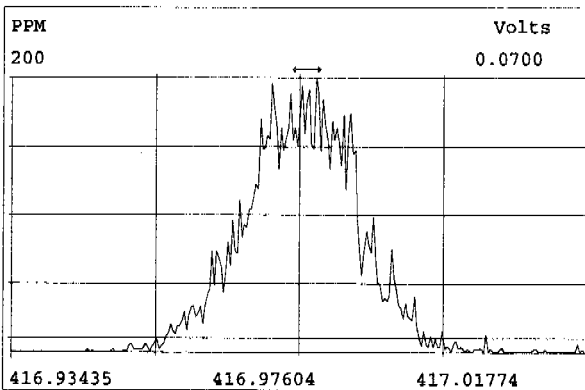
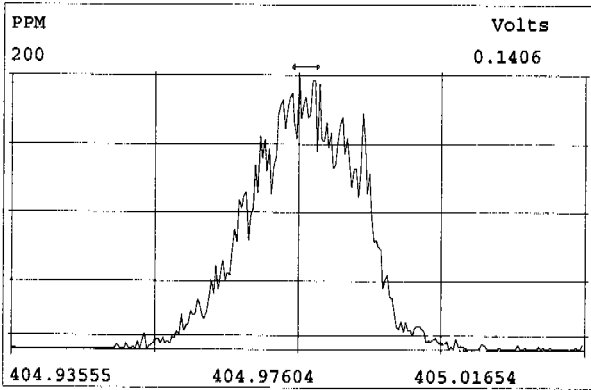
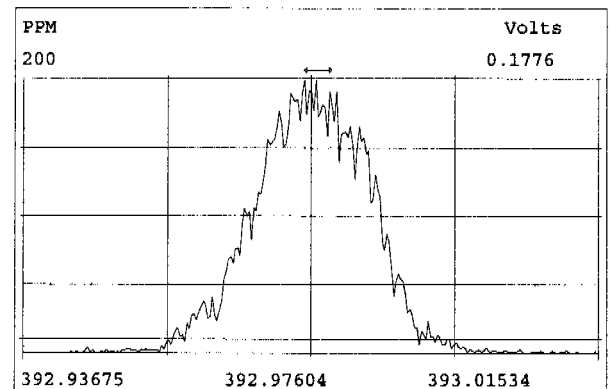
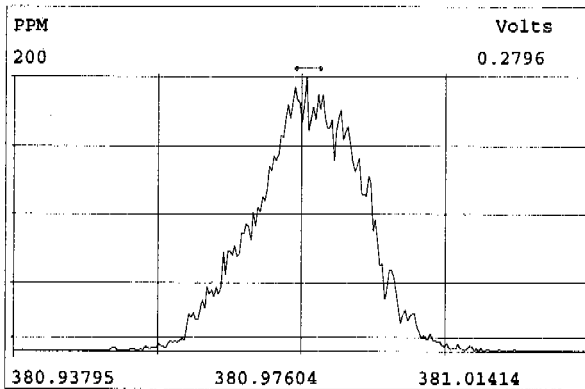
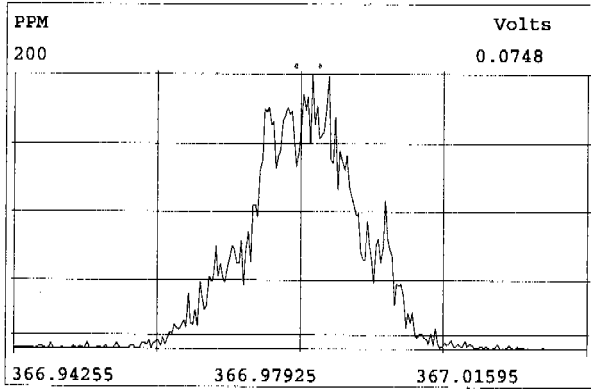
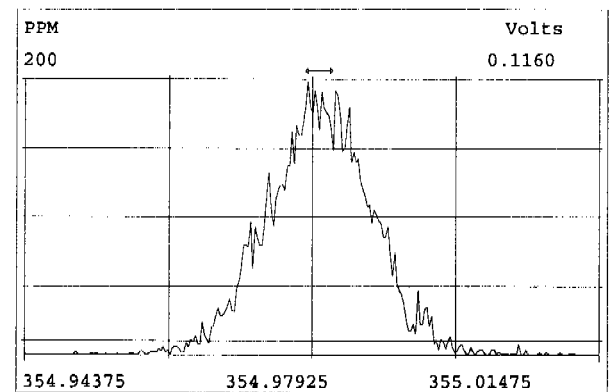
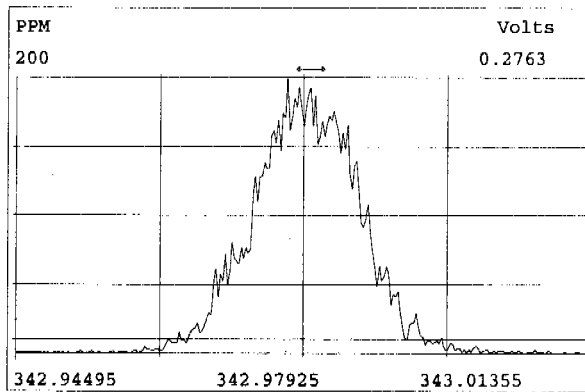
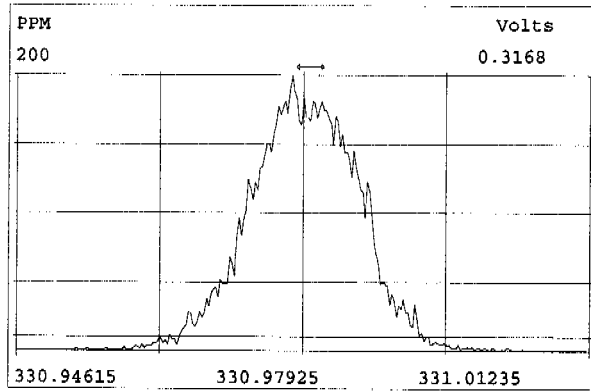
	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mass resolution > 10,000?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentration within range?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>TCDD/TCDF</u> valleys < 25%?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Manual integrations included?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8280 CS1 Ending Standard		
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-Ratios within limits		<input type="checkbox"/> NA
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-S/N > 2.5:1		<input type="checkbox"/> 1
Run Log:			-CS1 within 12-hour clock		<input type="checkbox"/> 6
-Standards named correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input type="checkbox"/> n			

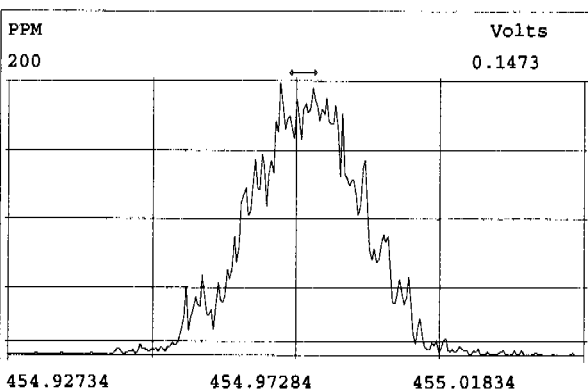
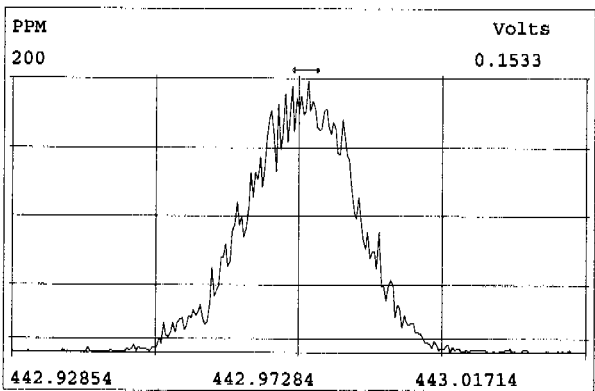
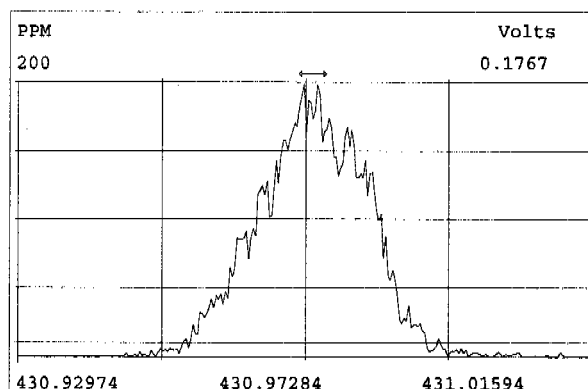
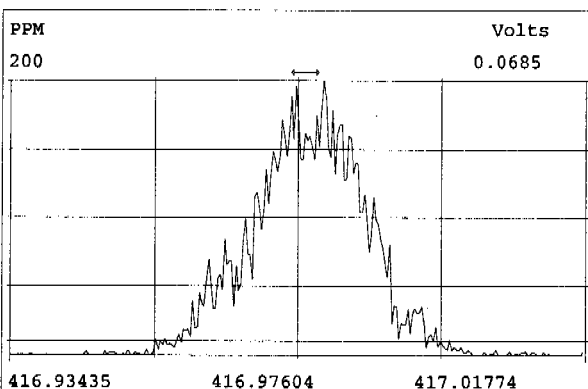
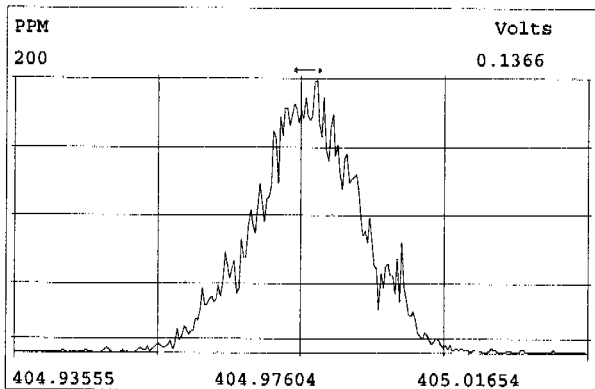
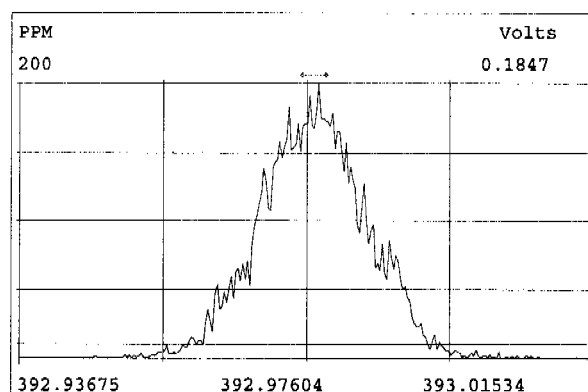
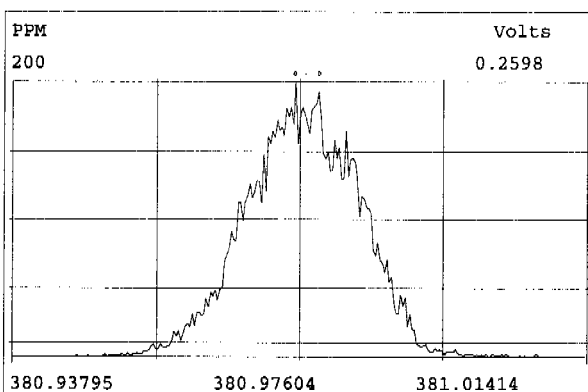
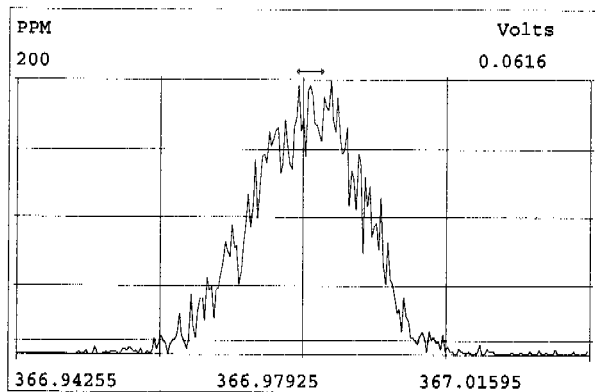
Comments:

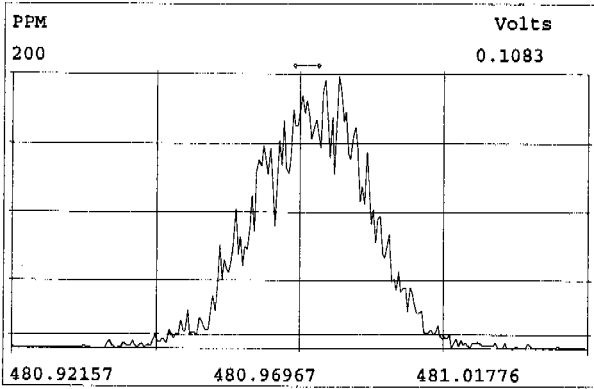
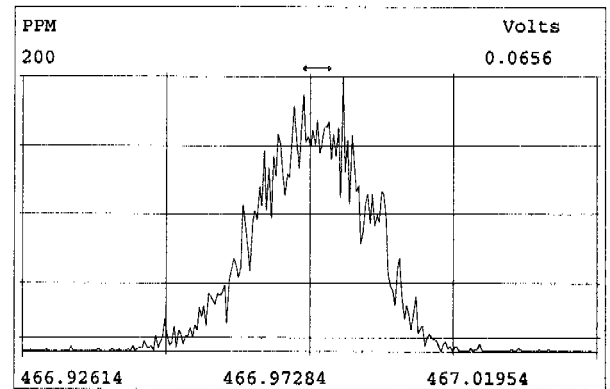
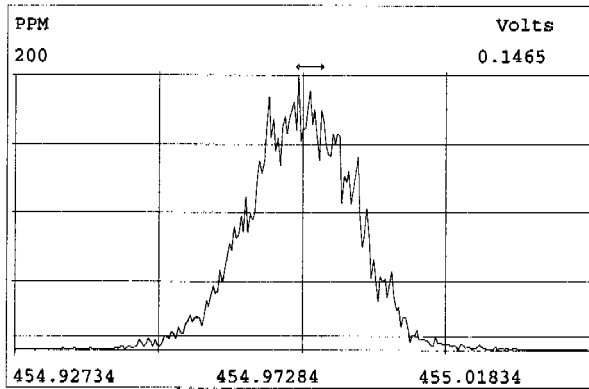
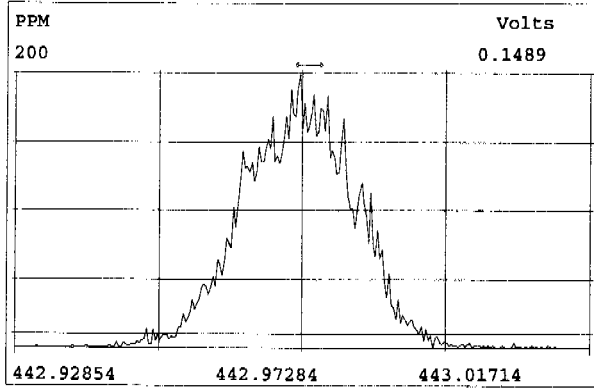
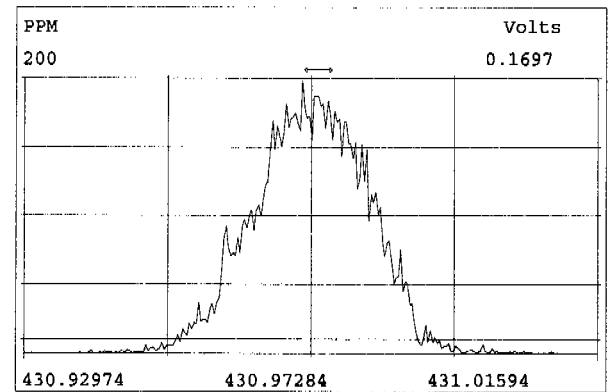
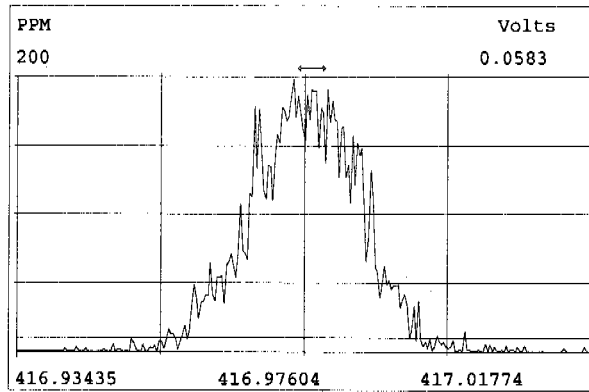
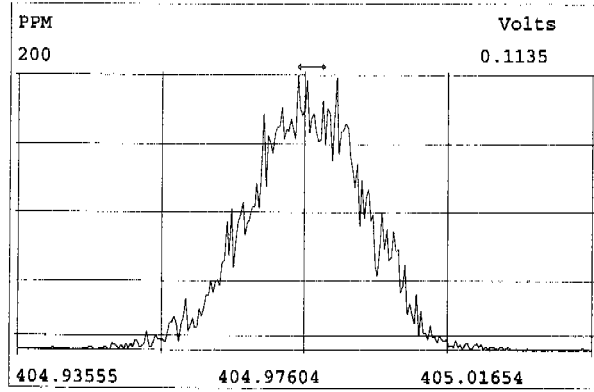
Reviewed by: J 9/25/06
 Initials & Date

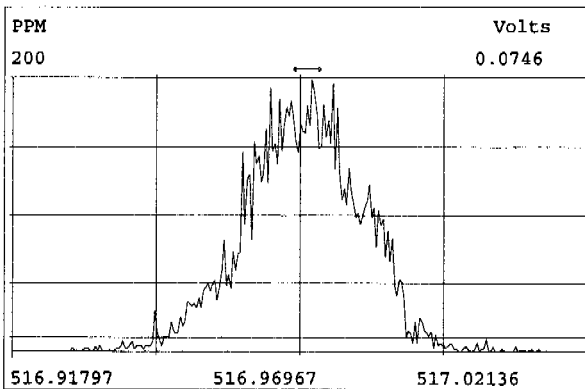
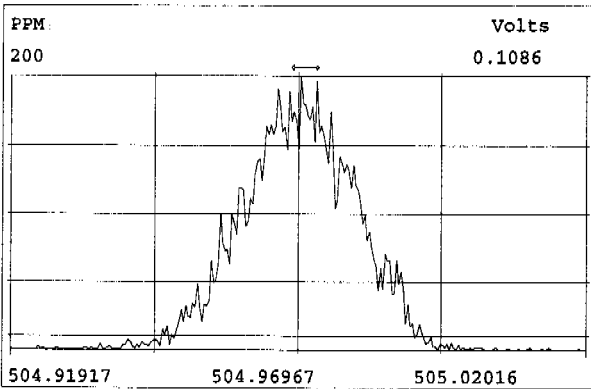
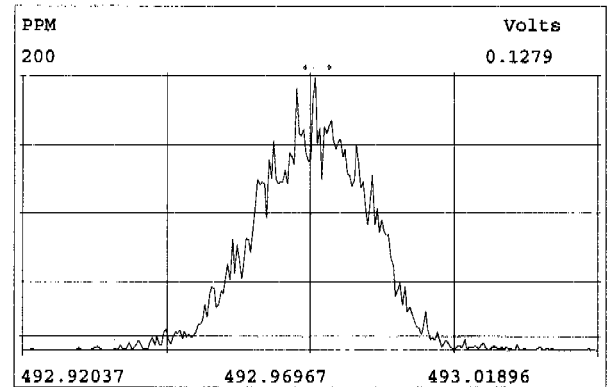
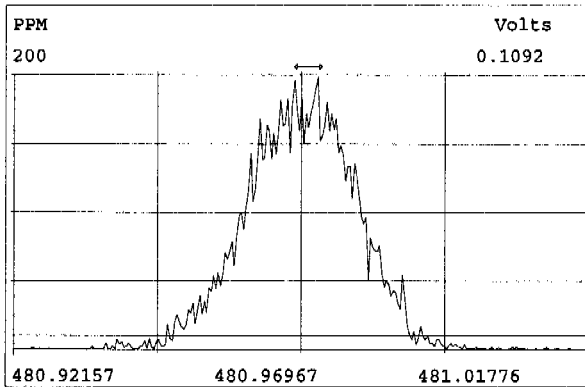
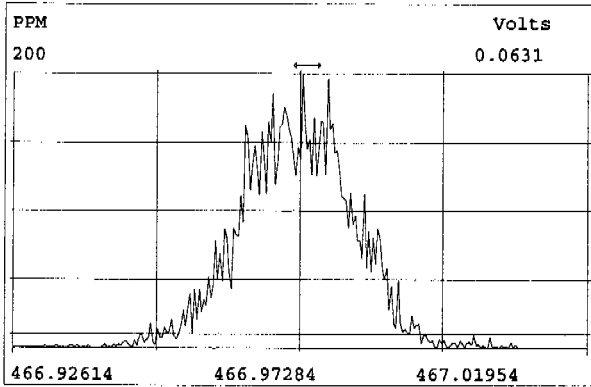
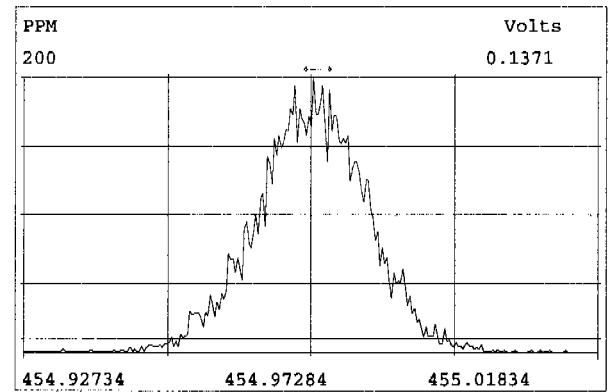
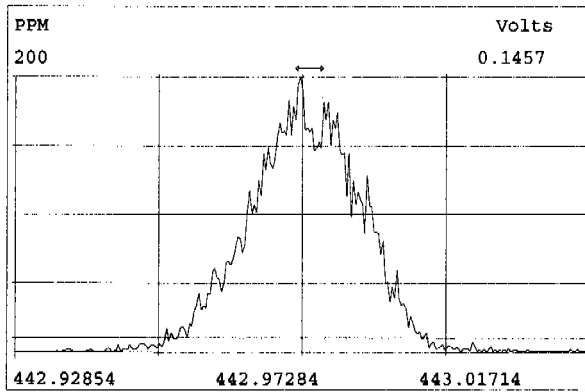
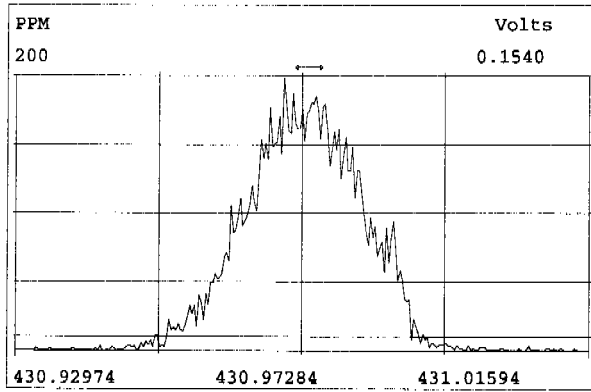
* Ending standard criteria applicable to 8290 only.



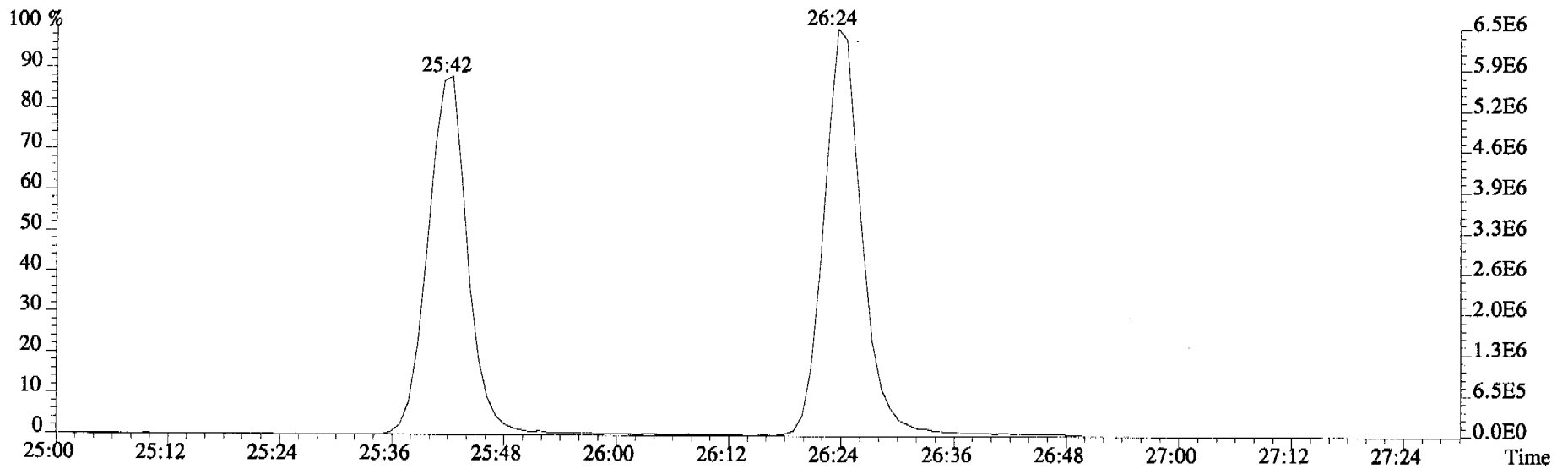
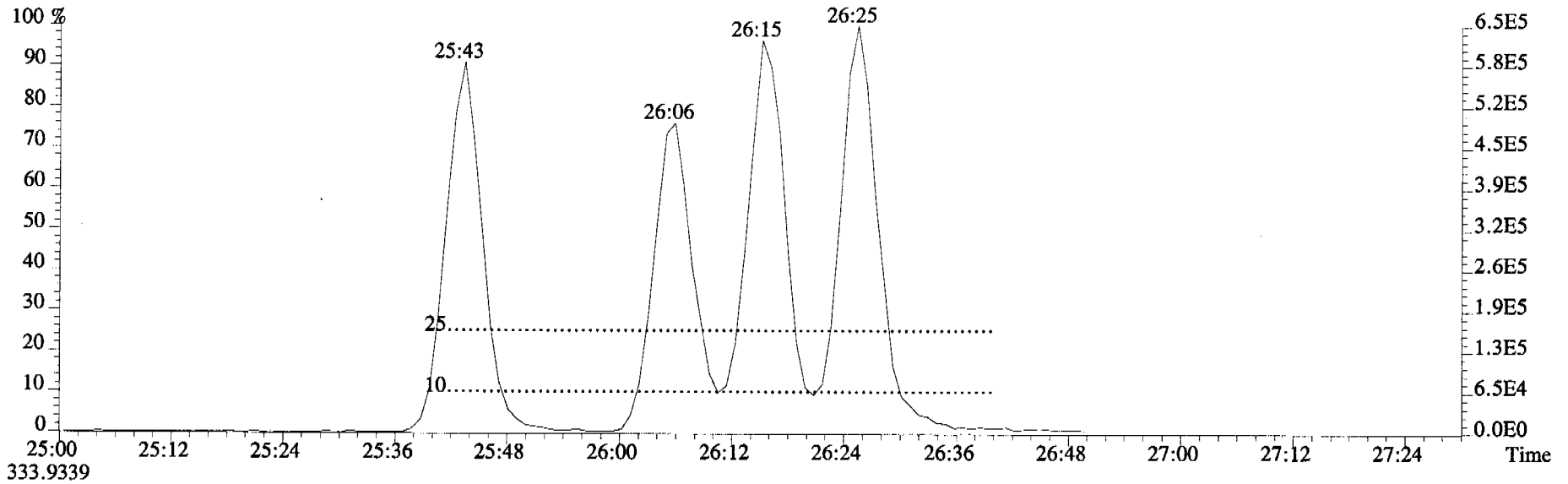




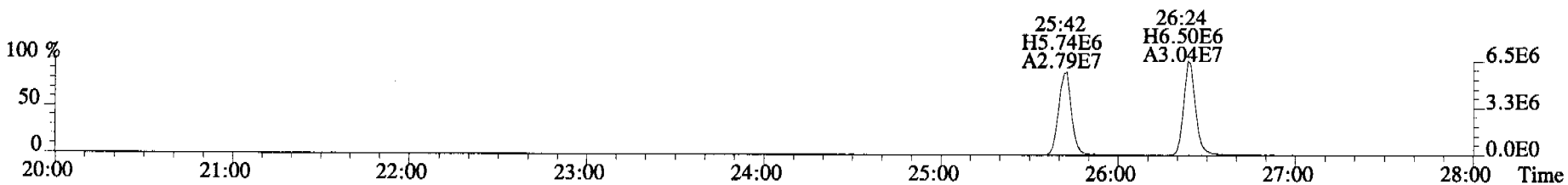
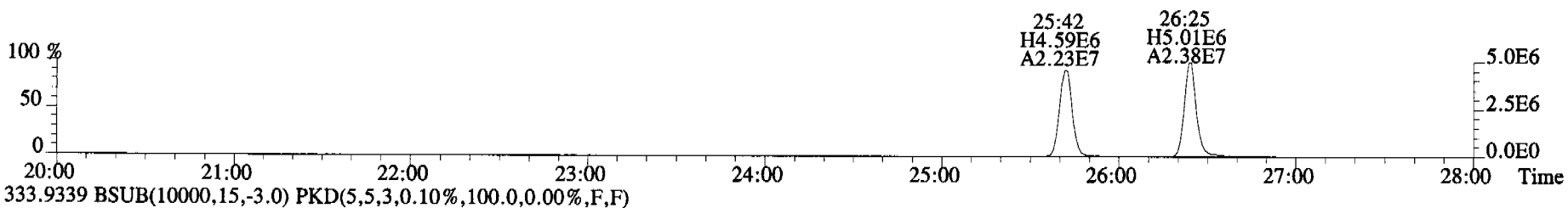
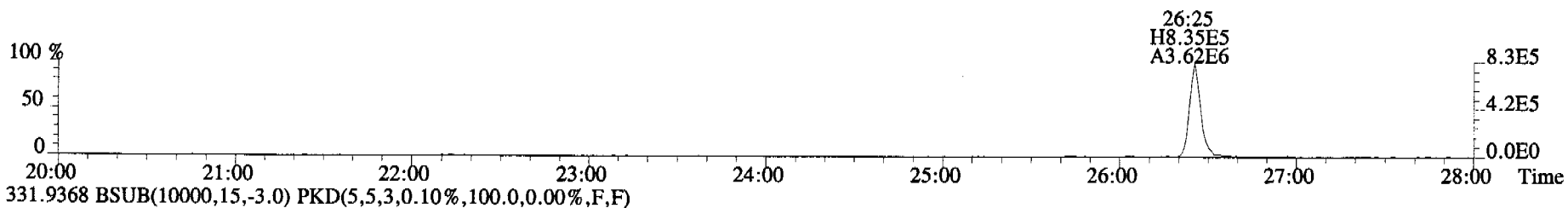
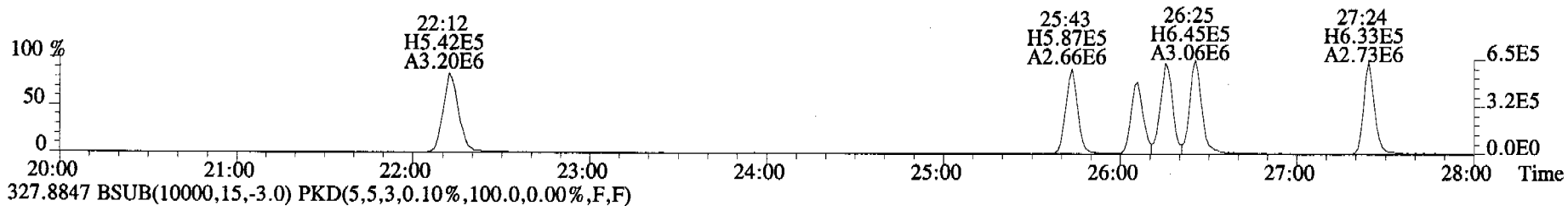
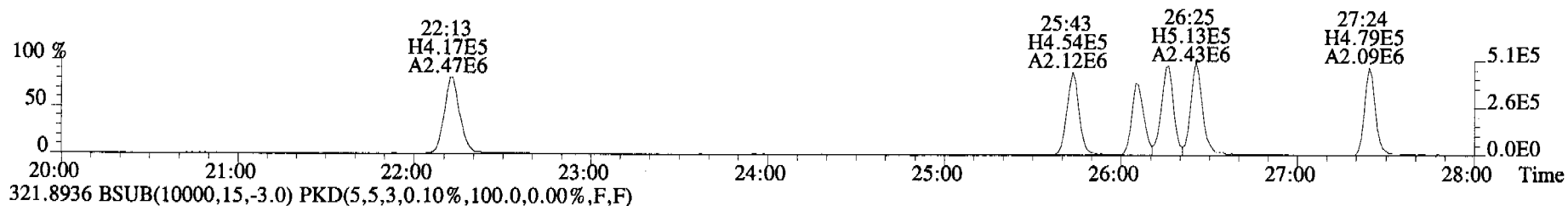




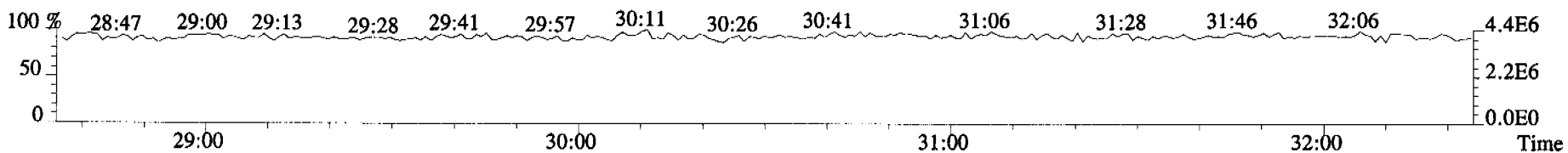
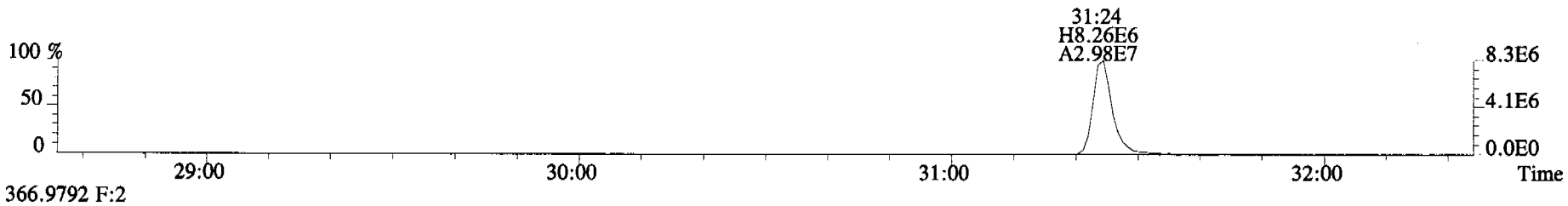
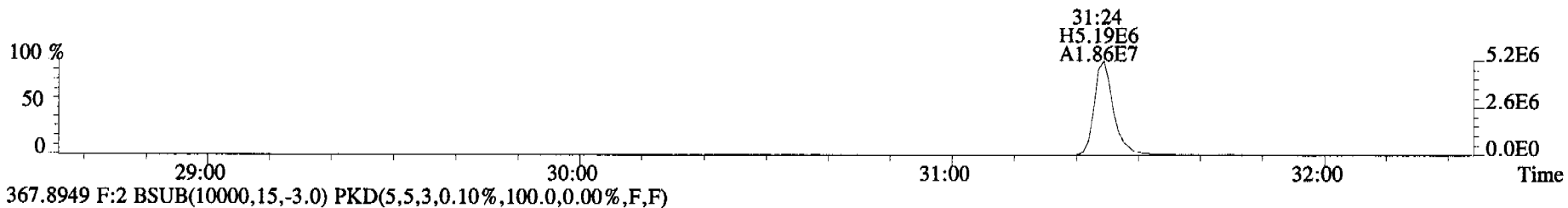
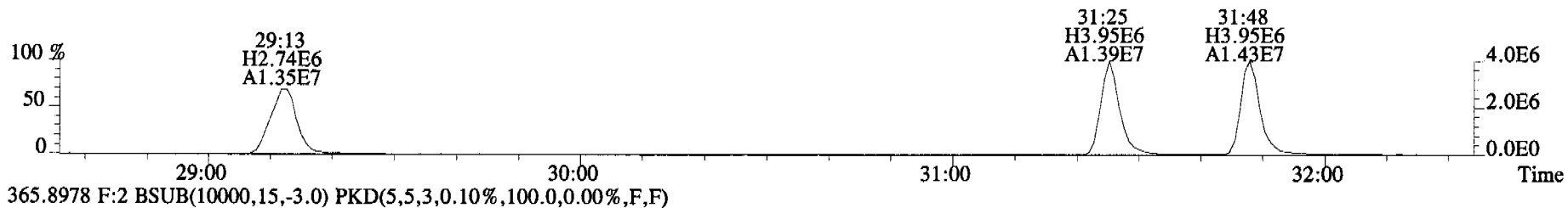
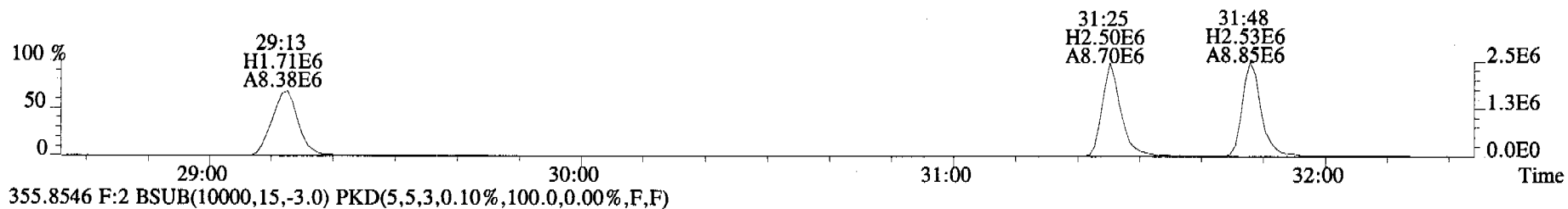
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
321.8936



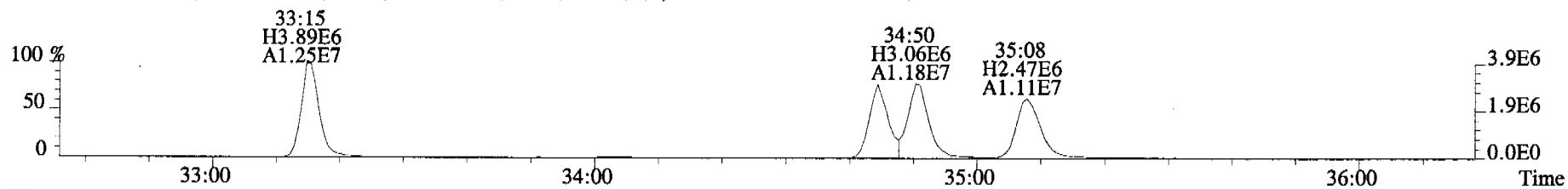
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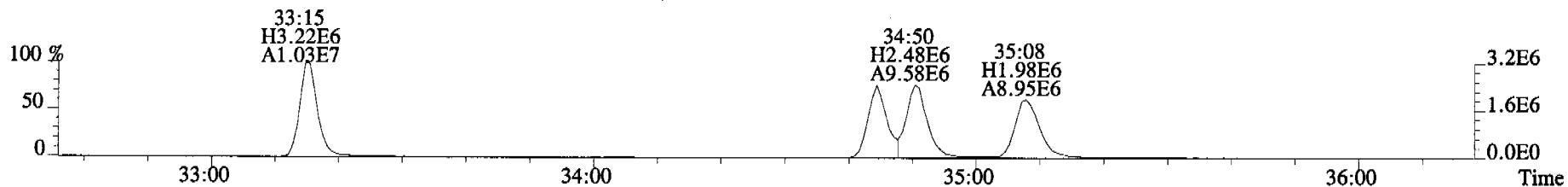
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



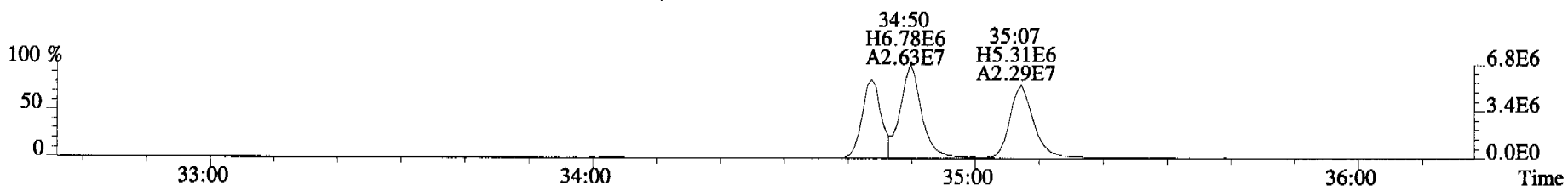
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



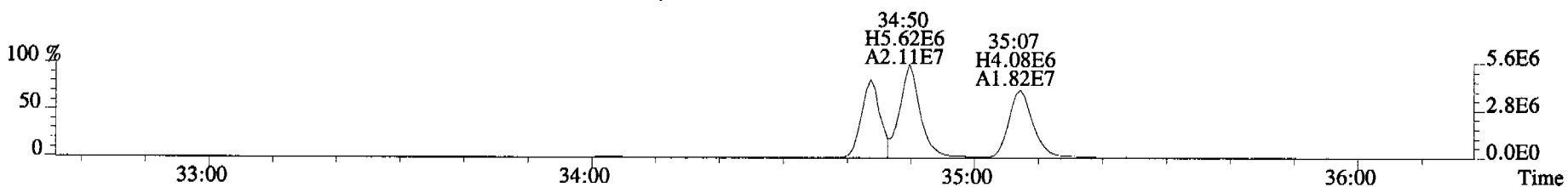
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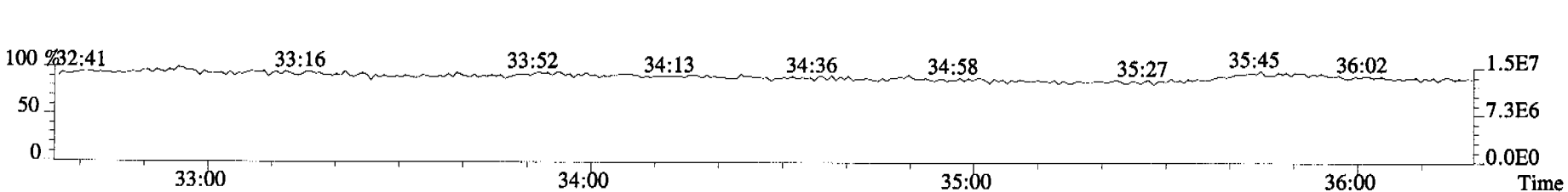
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



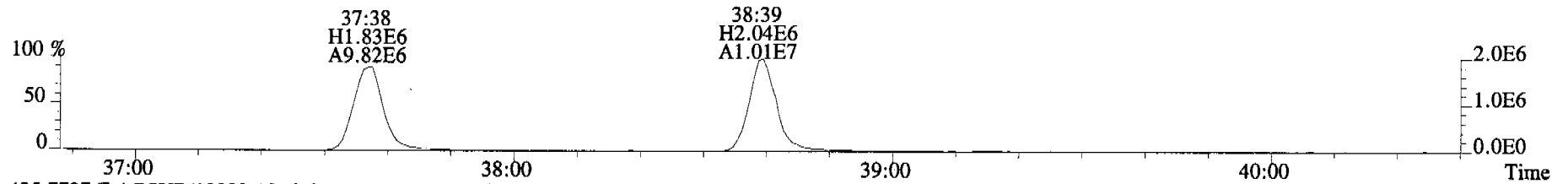
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



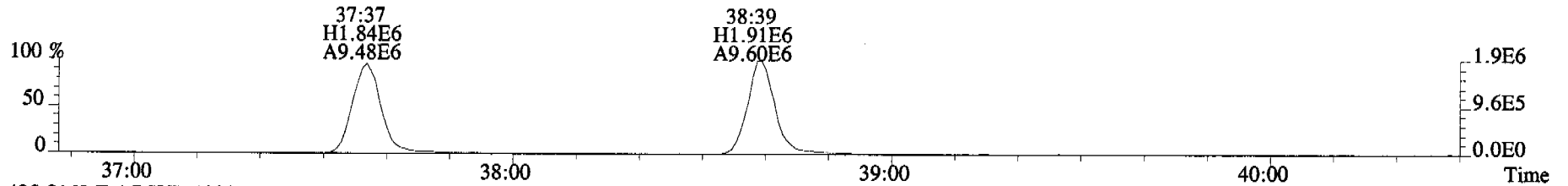
380.9760 F:3



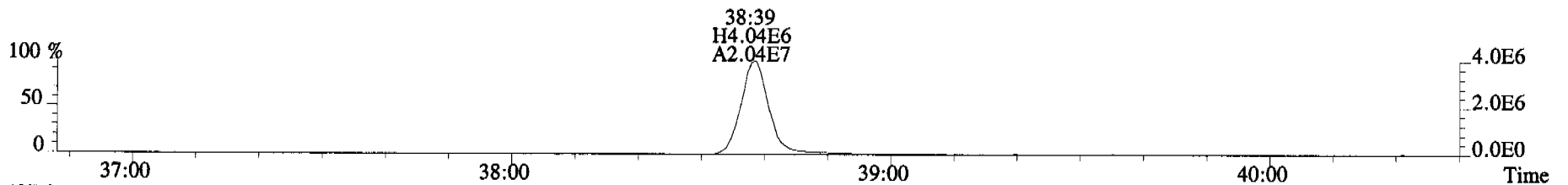
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



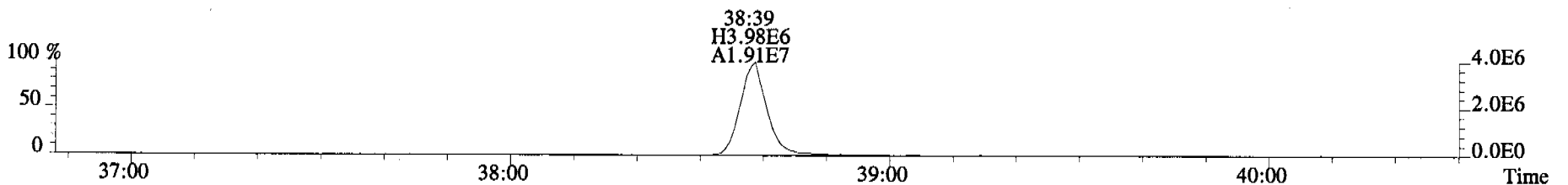
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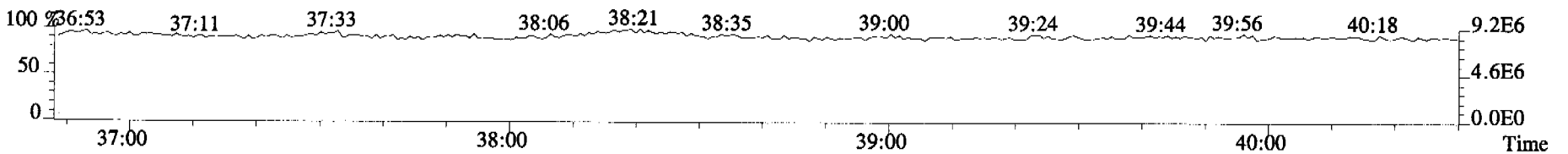
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



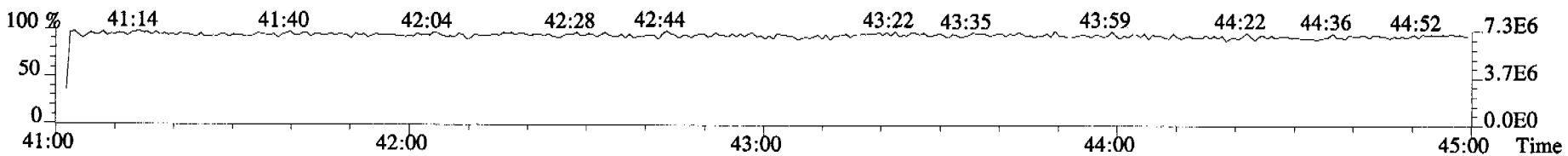
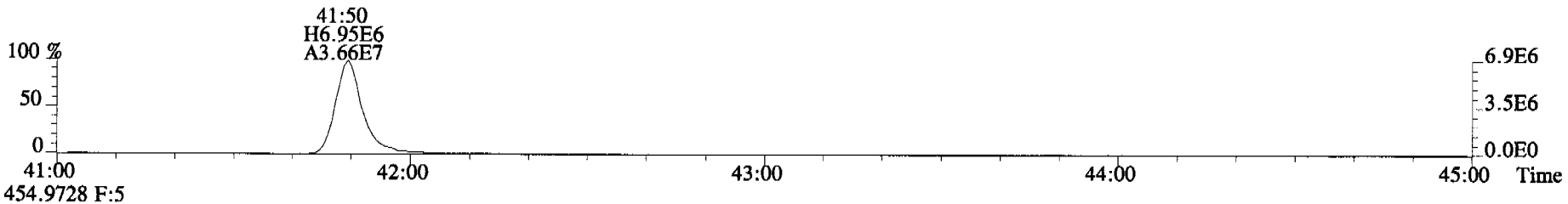
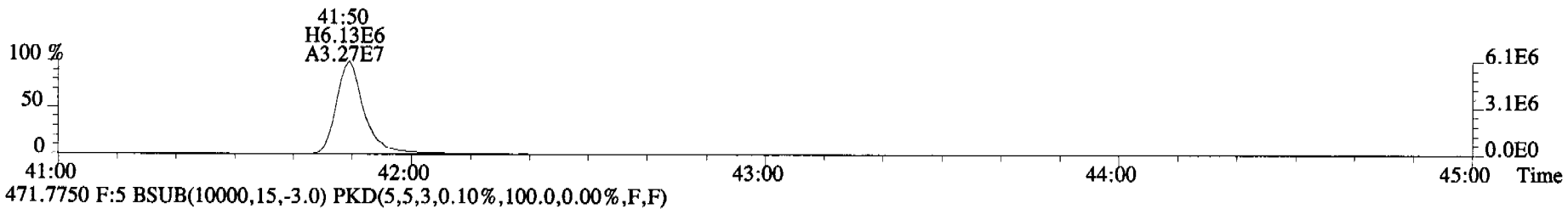
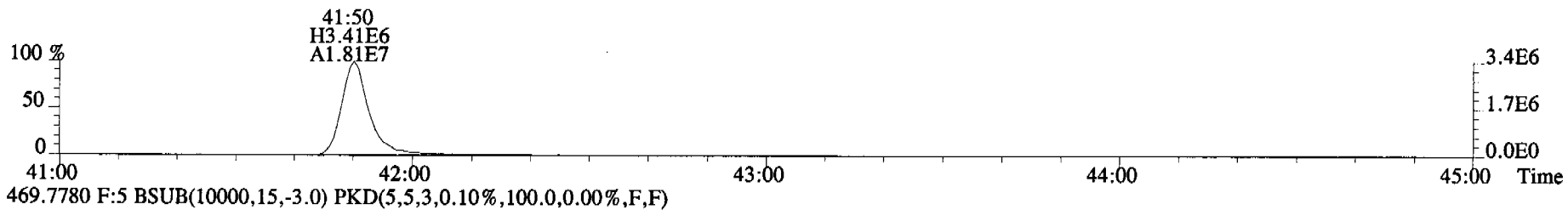
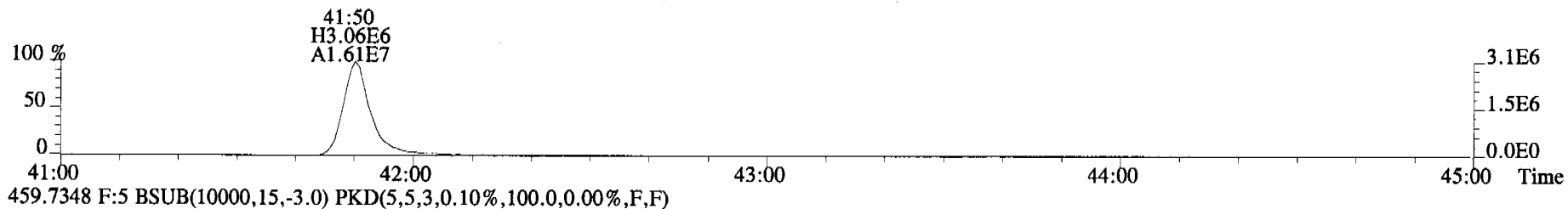
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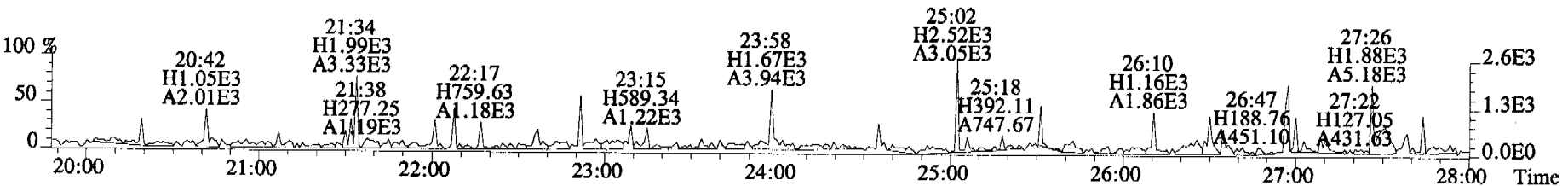
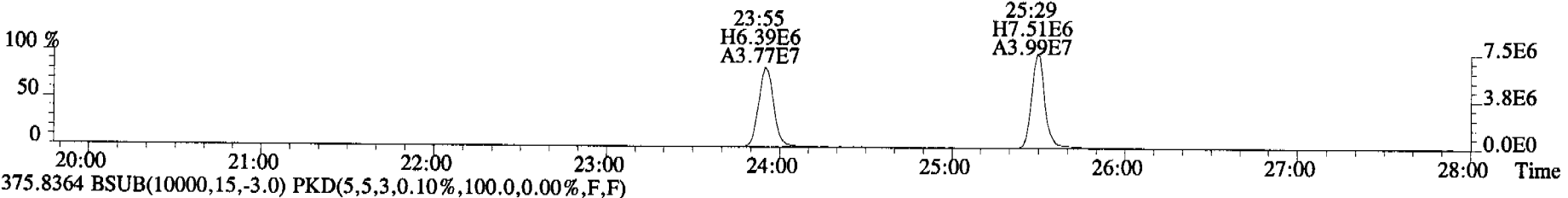
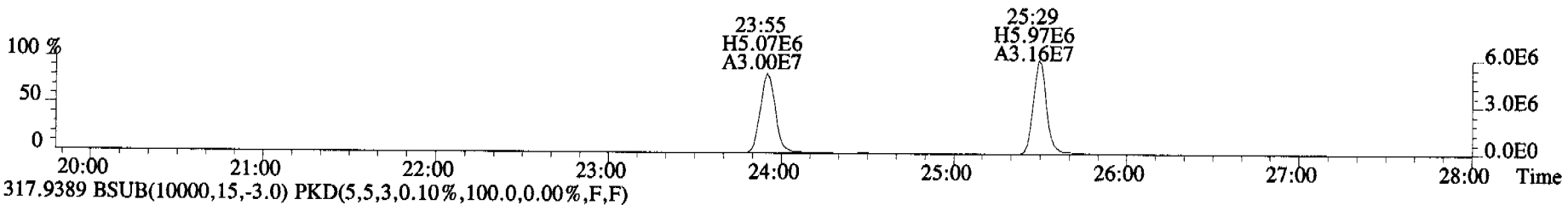
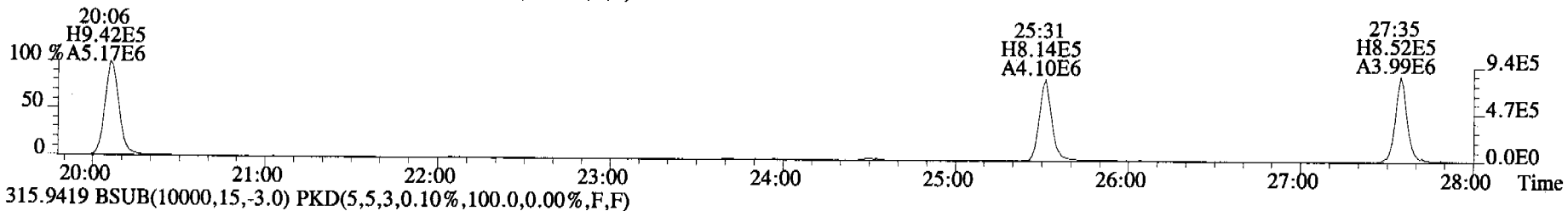
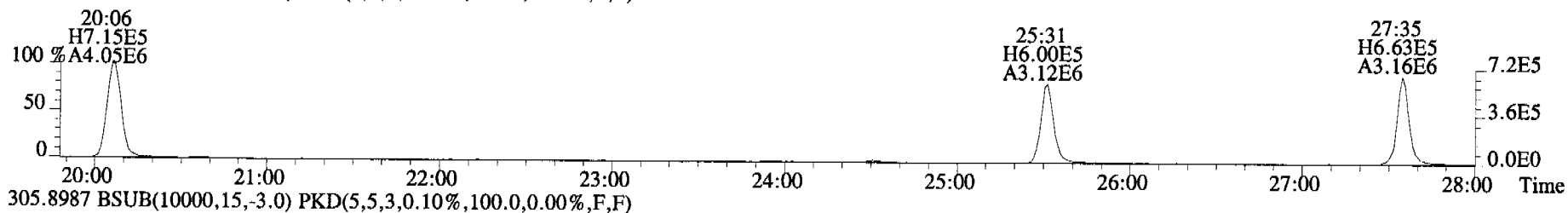
430.9728 F:4



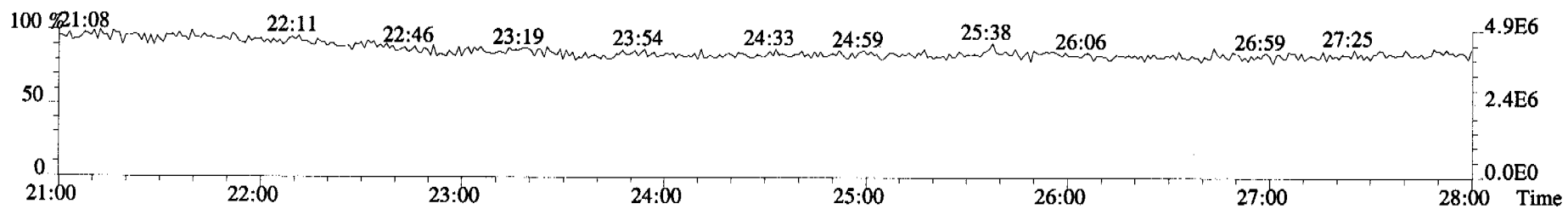
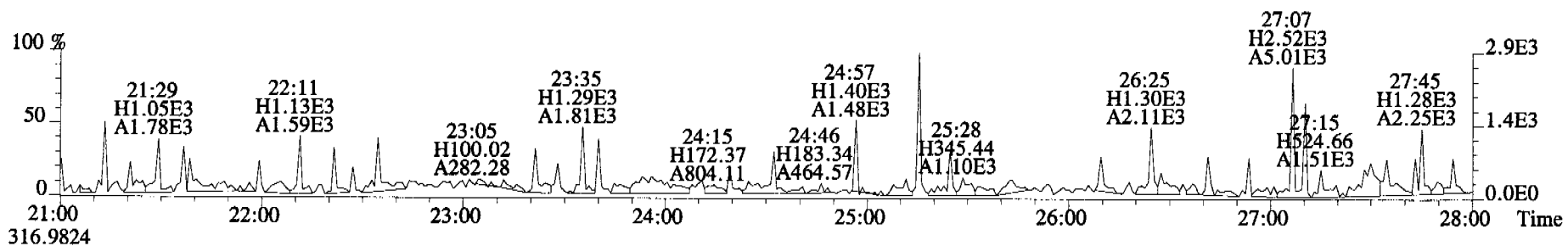
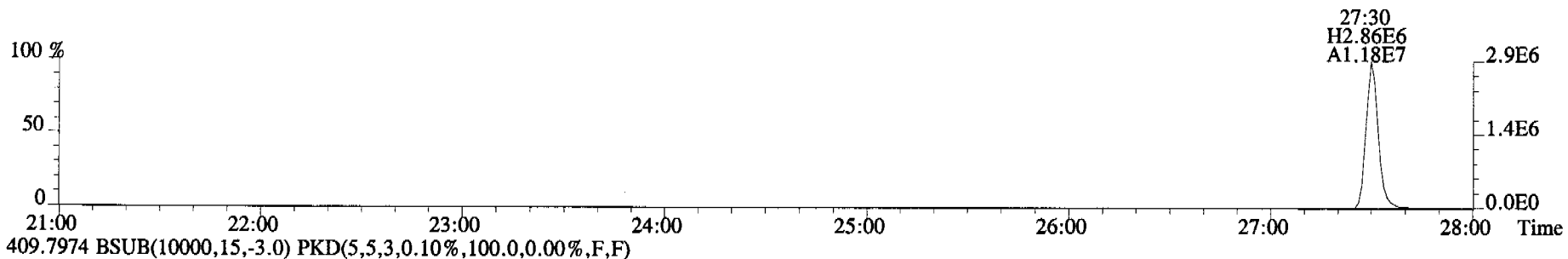
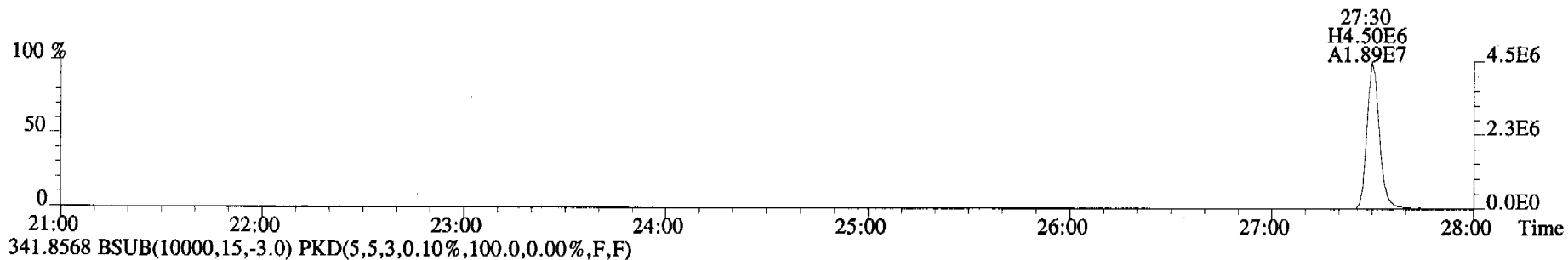
File:060920C2 #1-345 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



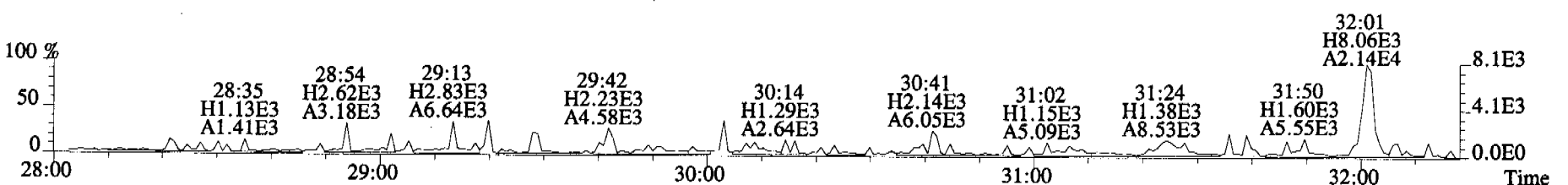
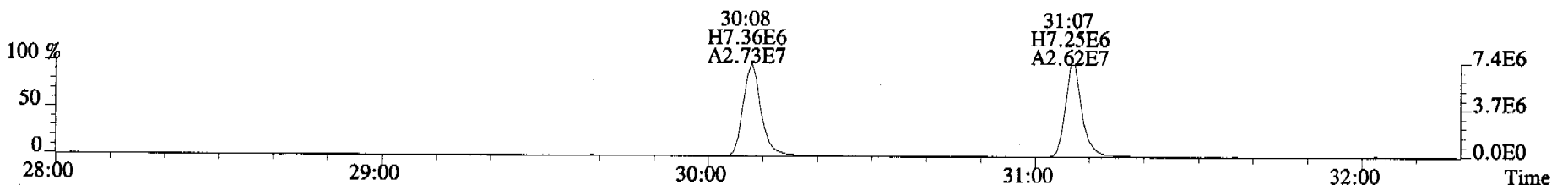
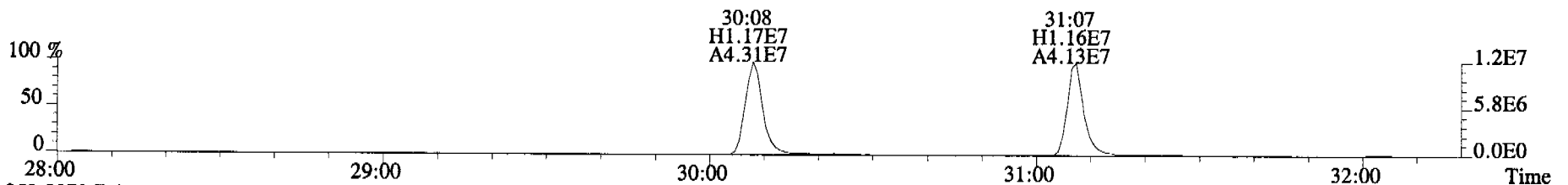
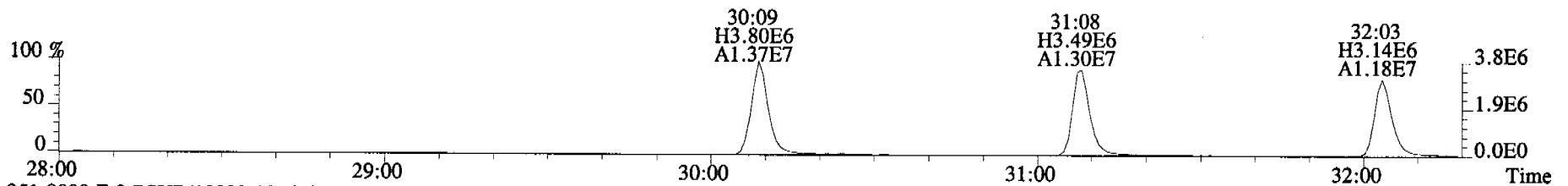
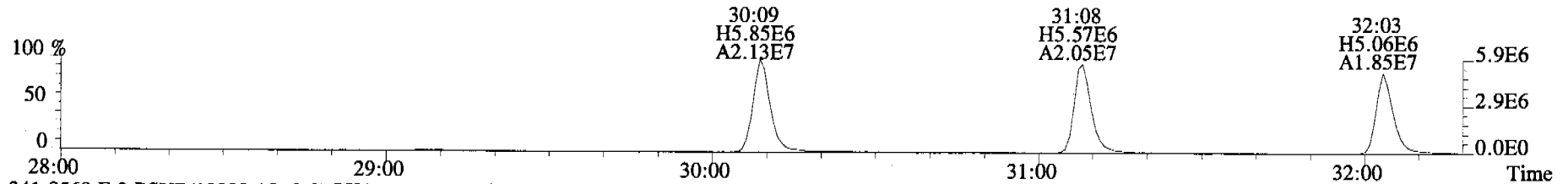
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



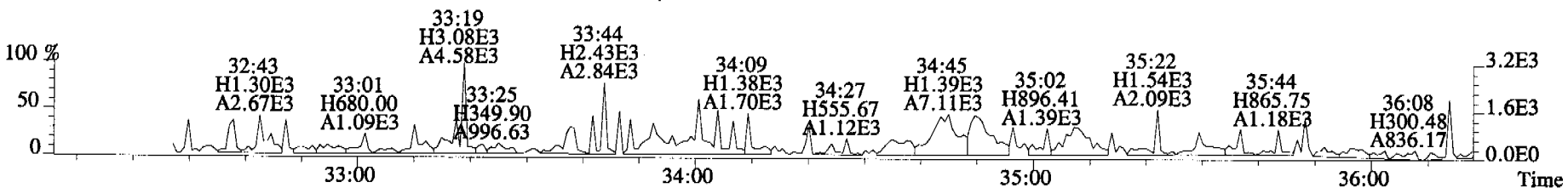
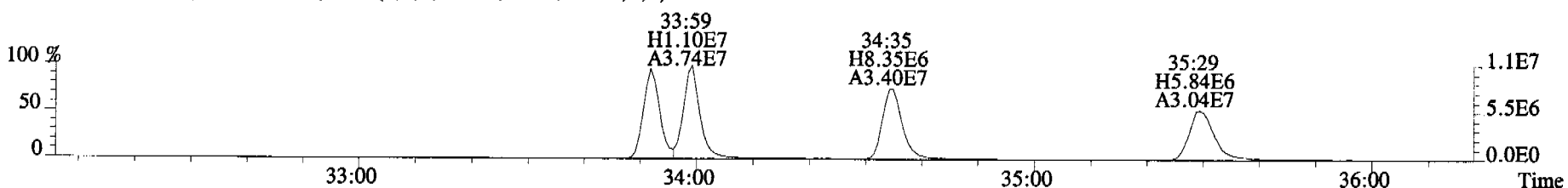
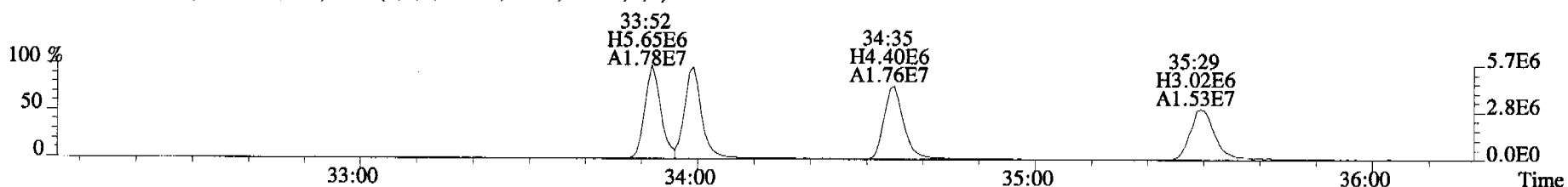
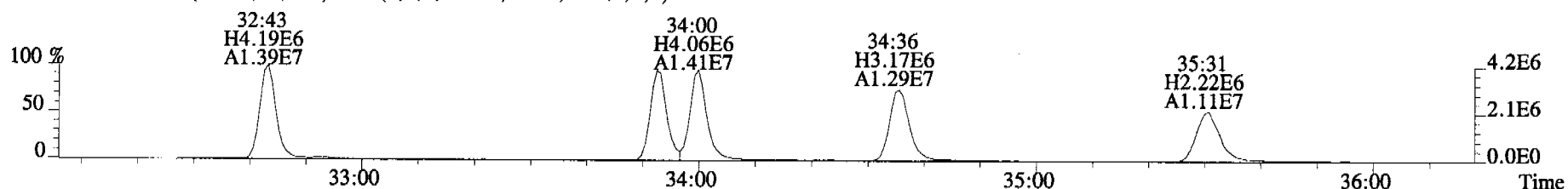
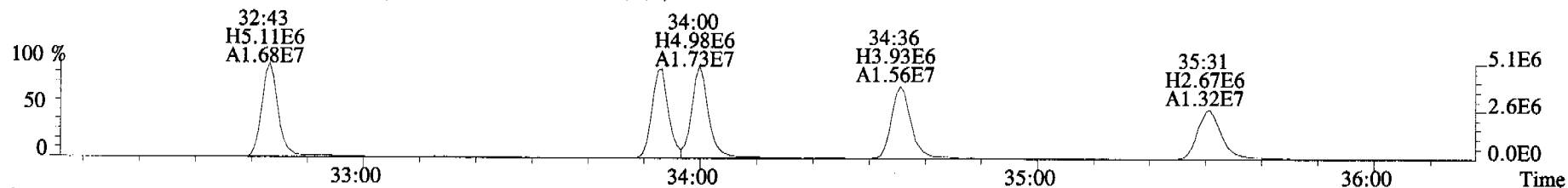
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



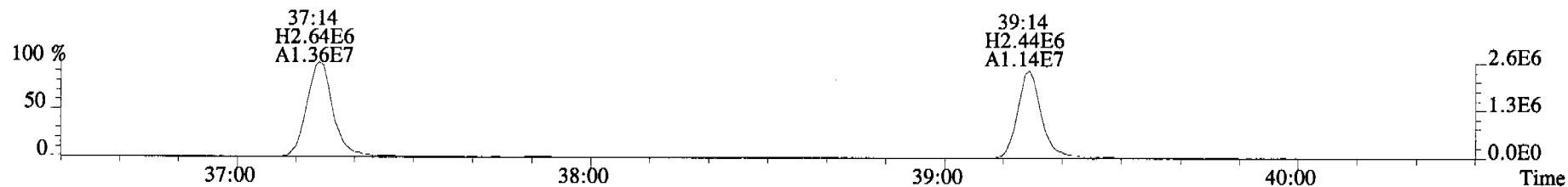
File:060920C2 #1-324 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



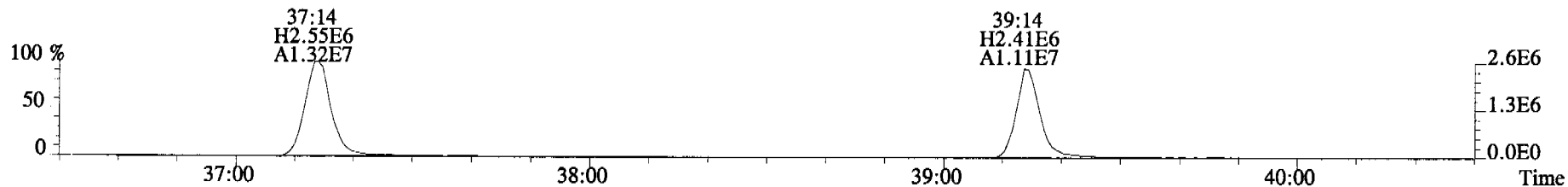
File:060920C2 #1-363 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



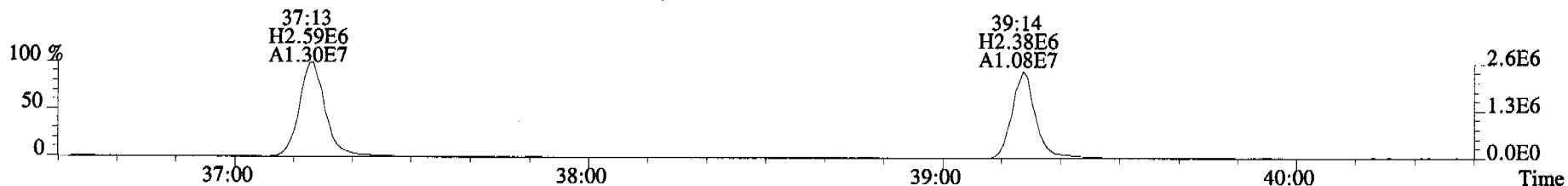
File:060920C2 #1-399 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



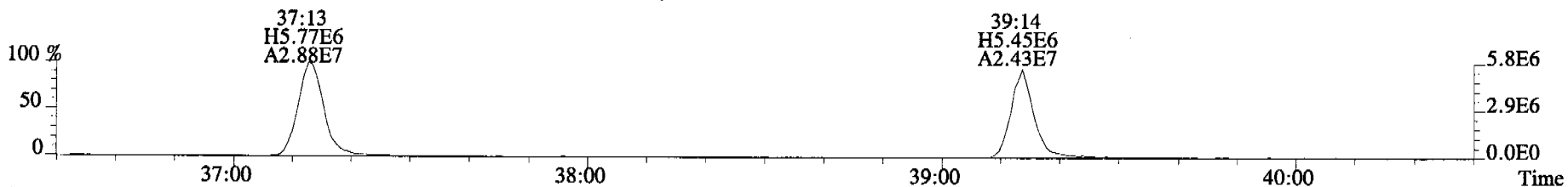
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



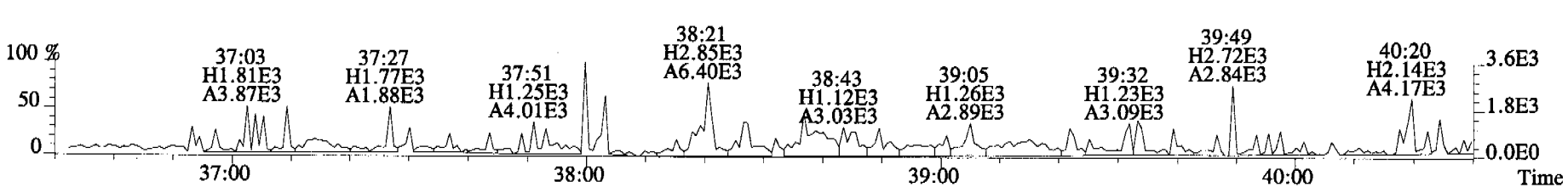
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



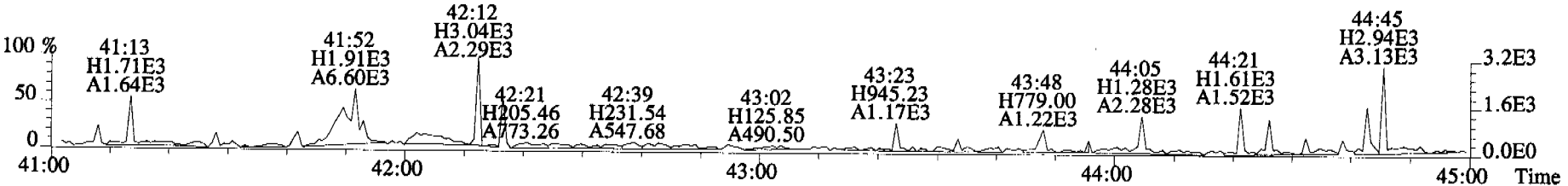
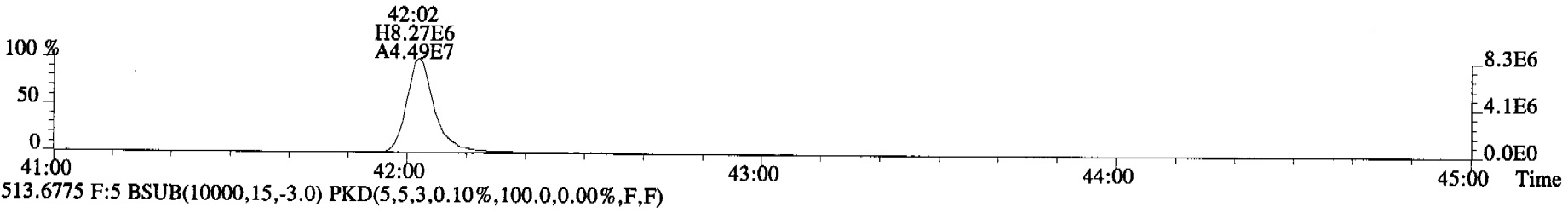
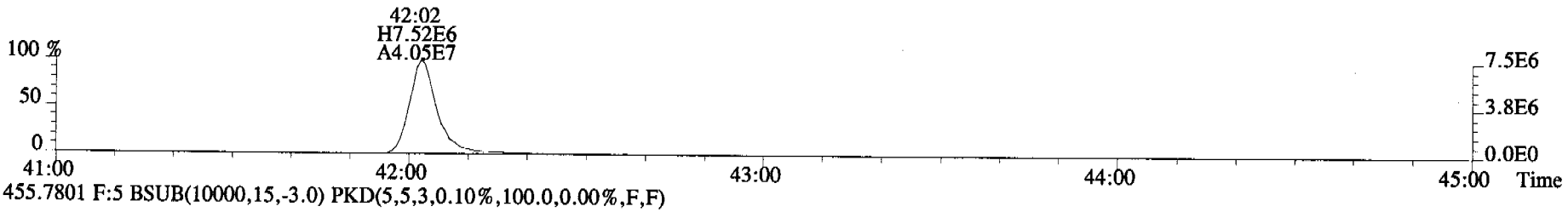
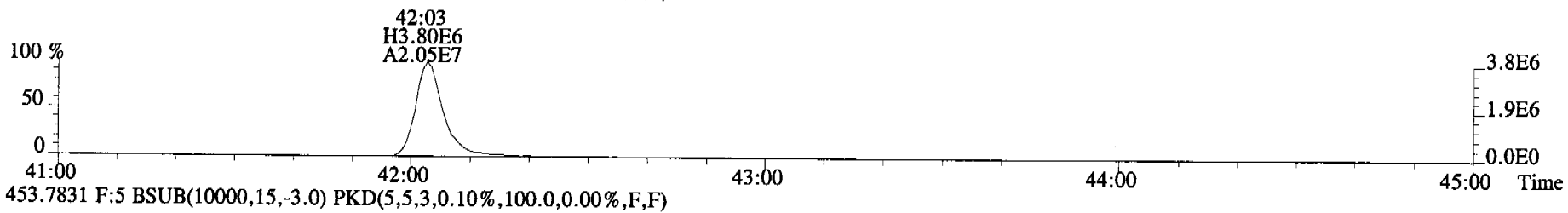
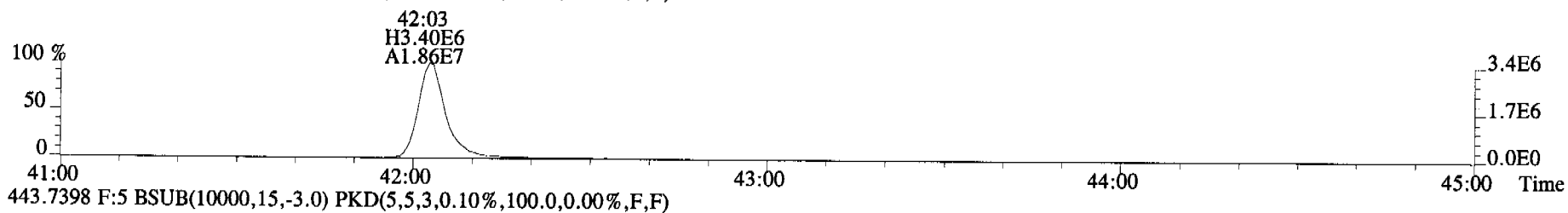
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



File:060920C2 #1-345 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-2

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.1	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	44.4	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	44.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	46.5	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	47.0	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	49.6	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	94.9	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.25	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	48.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	47.9	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.6	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.20	1.05-1.43	y	47.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.5	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	48.3	43.0 - 58.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.2	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MSDate: 9/21/06

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

Labeled Compounds	M/Z'S	ION	QC	Pass	CONC.	CONC.	CONC.
	FORMING						
	RATIO (1)	RATIO	(2)				(ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	96.9	82.0 - 121.0	
						85.0 - 117.0	(5) (1) See Table 8, Method 1613, for m/z specifications.
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	89.0	62.0 - 160.0	
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	95.7	85.0 - 117.0	(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	104	85.0 - 118.0	(3) Contract-required concentration range, as specified in Table 6, Method 1613.
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	102	72.0 - 138.0	
13C-OCDD	M+2/M+4	0.90	0.76-1.02	y	215	96.0 - 415.0	(4) No ion abundance ratio; report concentration found.
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	101	71.0 - 140.0	(5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only.
						76.0 - 131.0	
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	87.7	76.0 - 130.0	
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	82.1	77.0 - 130.0	
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	76.0 - 131.0	
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	103	70.0 - 143.0	
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	96.3	73.0 - 137.0	
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.1	74.0 - 135.0	
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	99.9	78.0 - 129.0	
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	99.0	77.0 - 129.0	
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	199	96.0 - 415.0	
CLEANUP STANDARD (4)							
37Cl-2,3,7,8-TCDD					8.94	7.9 - 12.7	
						8.3 - 12.1	(5)

Analyst: ms

Date: 9/21/06

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-5 Initial Calibration Date: 3/22/06

RT Window Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

DB-5 IS Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

DB_225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:15	1,3,6,8-TCDF (F)	20:09
1,2,8,9-TCDD (L)	27:27	1,2,8,9-TCDF (L)	27:37
1,2,4,7,9-PeCDD (F)	29:14	1,3,4,6,8-PeCDF (F)	27:32
1,2,3,8,9-PeCDD (L)	31:51	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)	35:12	1,2,3,7,8,9-HxCDF (L)	35:35
1,2,3,4,6,7,9-HpCDD (F)	37:41	1,2,3,4,6,7,8-HpCDF (F)	37:18
1,2,3,4,6,7,8,9-HpCDD (L)	38:43	1,2,3,4,7,8,9-HpCDF (L)	39:19

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5).

=====

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: 9/21/06

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
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
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	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-TCDF	13C-1,2,3,4-TCDD	0.993	0.923-1.103
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.028	0.976-1.043
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.028	0.989-1.052
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.173	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.212	1.011-1.526
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.223	1.000-1.567

Analyst: MS

Date: 9/21/06

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

Compounds Using 13C-123789-HxCDD as Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE	RRT	QC LIMITS (1)	
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001	(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005	
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001	
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001	
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004	
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.009	1.000-1.019	
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	

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.964	0.944-0.970
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.967	0.949-0.975
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.984	0.959-1.021
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDD	1.011	0.977-1.047
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.988	0.977-1.000
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.991	0.981-1.003
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.060	1.043-1.085
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,7,8,9-HxCDD	1.100	1.086-1.110
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.117	1.057-1.151
13C-OCDD	13C-1,2,3,7,8,9-HxCDD	1.191	1.032-1.311
13C-OCDF	13C-1,2,3,7,8,9-HxCDD	1.197	1.032-1.311

Analyst: MSDate: 9/21/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060920C2-2

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO	RATIO			(ng/mL)	
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.1	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	44.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	44.2	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	46.5	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	47.0	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	49.6	40.0 - 60.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	94.9	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.25	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	48.2	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	47.9	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	48.9	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.6	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.0	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.20	1.05-1.43	y	47.4	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	48.5	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	48.3	40.0 - 60.0
OCDF	M+2/M+4	0.90	0.76-1.02	y	99.2	80.0 - 120

Analyst: VM

Date: 9/21/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060920C2 S#16 Analysis Date: 21-SEP-06 Time: 03:38:30

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	96.9	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	89.0	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	95.7	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	104	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	102	70.0 - 130
13C-OCDD	M+2/M+4	0.90	0.76-1.02	y	215	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	101	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	87.7	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	82.1	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	103	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	96.3	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.1	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	99.9	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	99.0	70.0 - 130
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	199	140 - 260
CLEANUP STANDARD						
37C1-2,3,7,8-TCDD					8.94	7.00 - 13.0

Analyst: VMJDate: 9/21/06

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	5.52e+06	0.77 y	1.08	26:28	10.079	*	2.5	*	*	Total Tetra-Dioxins	53.345	53.895	*	*	
1,2,3,7,8-PeCDD	2.04e+07	0.62 y	1.03	31:28	44.445	*	2.5	*	*	Total Penta-Dioxins	138.92	139.22	*	*	
1,2,3,4,7,8-HxCDD	1.55e+07	1.22 y	1.13	34:47	44.224	*	2.5	*	*	Total Hexa-Dioxins	190.35	191.92	*	*	
1,2,3,6,7,8-HxCDD	2.01e+07	1.24 y	1.03	34:53	46.492	*	2.5	*	*	Total Hepta-Dioxins	99.126	100.77	*	*	
1,2,3,7,8,9-HxCDD	1.91e+07	1.23 y	1.12	35:12	46.993	*	2.5	*	*	Total Tetra-Furans	30.569	30.737	*	*	
1,2,3,4,6,7,8-HpCDD	1.70e+07	1.06 y	1.02	38:43	49.591	*	2.5	*	*	Total Penta-Furans	185.84	187.20	*	*	
OCDD	2.98e+07	0.89 y	1.06	41:55	94.889	*	2.5	*	*	Total Hexa-Furans	240.85	242.03	*	*	
2,3,7,8-TCDF	6.84e+06	0.77 y	1.06	25:33	9.2501	*	2.5	*	*	Total Hepta-Furans	97.108	99.126	*	*	
1,2,3,7,8-PeCDF	3.10e+07	1.57 y	1.01	30:11	48.150	*	2.5	*	*						
2,3,4,7,8-PeCDF	2.94e+07	1.56 y	1.02	31:11	47.888	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	2.53e+07	1.19 y	1.15	33:55	48.865	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	2.96e+07	1.22 y	1.14	34:02	46.639	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	2.54e+07	1.22 y	1.17	34:39	46.013	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	2.17e+07	1.20 y	1.10	35:35	47.404	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	2.31e+07	1.03 y	1.31	37:18	48.499	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.89e+07	1.04 y	1.33	39:19	48.346	*	2.5	*	*						
OCDF	3.29e+07	0.90 y	0.91	42:08	99.199	*	2.5	*	*						
IS	13C-2,3,7,8-TCDD	5.07e+07	0.80 y	1.09	26:26	96.904				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	4.45e+07	0.62 y	1.04	31:27	89.038				96.9					
IS	13C-1,2,3,4,7,8-HxCDD	3.08e+07	1.22 y	0.83	34:46	95.738				89.0					
IS	13C-1,2,3,6,7,8-HxCDD	4.19e+07	1.25 y	1.04	34:53	103.73				95.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	3.38e+07	1.06 y	0.85	38:42	102.32				104					
IS	13C-OCDD	5.96e+07	0.90 y	0.71	41:55	214.99				102					
IS	13C-2,3,7,8-TCDF	6.97e+07	0.80 y	0.96	25:32	101.40				107					
IS	13C-1,2,3,7,8-PeCDF	6.40e+07	1.55 y	1.02	30:10	87.728				101					
IS	13C-2,3,4,7,8-PeCDF	6.00e+07	1.57 y	1.02	31:10	82.101				87.7					
IS	13C-1,2,3,4,7,8-HxCDF	4.52e+07	0.54 y	1.14	33:54	101.70				82.1					
IS	13C-1,2,3,6,7,8-HxCDF	5.58e+07	0.50 y	1.40	34:02	102.69				102					
IS	13C-2,3,4,6,7,8-HxCDF	4.72e+07	0.51 y	1.26	34:38	96.313				103					
IS	13C-1,2,3,7,8,9-HxCDF	4.17e+07	0.52 y	1.08	35:34	99.055				96.3					
IS	13C-1,2,3,4,6,7,8-HpCDF	3.62e+07	0.44 y	0.93	37:16	99.869				99.1					
IS	13C-1,2,3,4,7,8,9-HpCDF	2.95e+07	0.44 y	0.77	39:18	99.039				99.9					
IS	13C-OCDF	7.28e+07	0.91 y	0.94	42:07	198.59				99.0					
C/Up	37C1-2,3,7,8-TCDD	3.32e+06		0.77	26:27	8.9415				99.3					
RS/RT	13C-1,2,3,4-TCDD	4.80e+07	0.79 y	1.00	25:43	100.00				22.4					
RS	13C-1,2,3,4-TCDF	7.17e+07	0.80 y	1.00	23:57	100.00									
RS/RT	13C-1,2,3,7,8,9-HxCDD	3.88e+07	1.25 y	1.00	35:11	100.00									

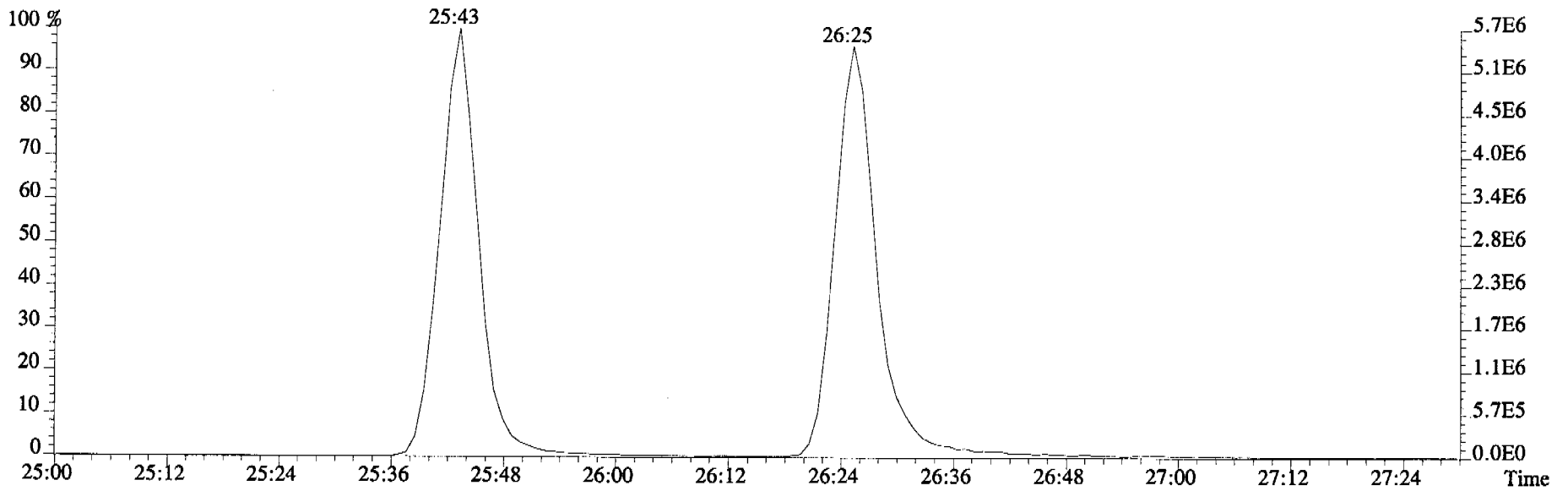
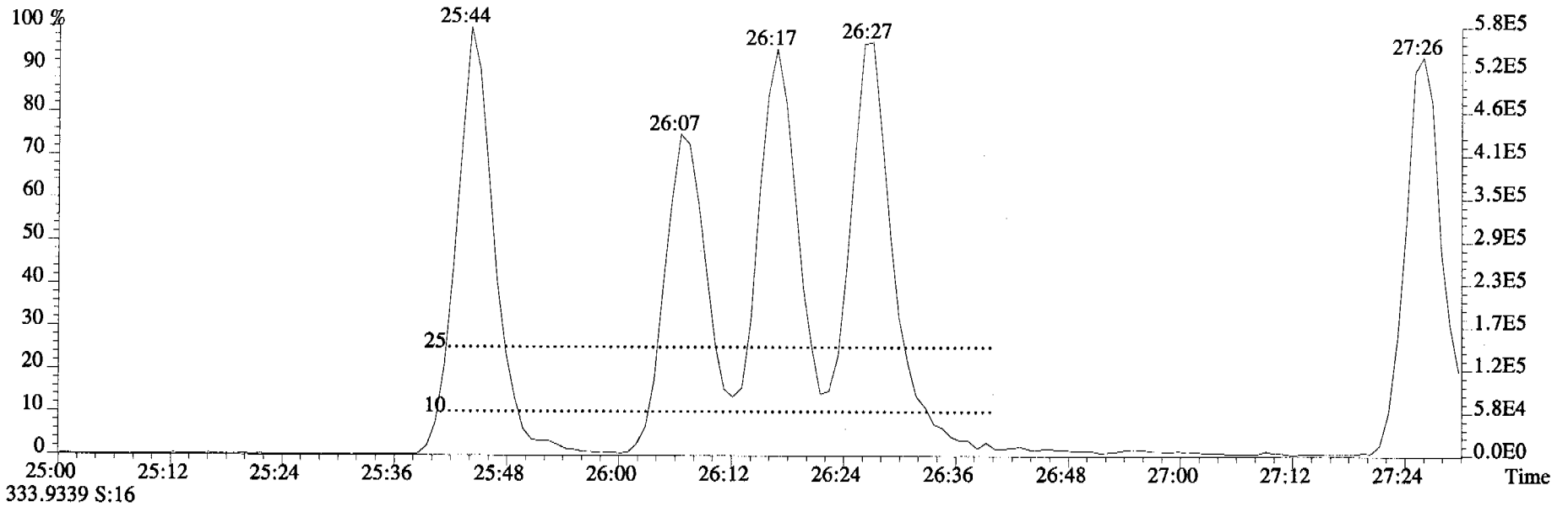
Integrations Reviewed
 by by
 Analyst: MJ Analyst: _____

Date: 9/21/06 Date: _____

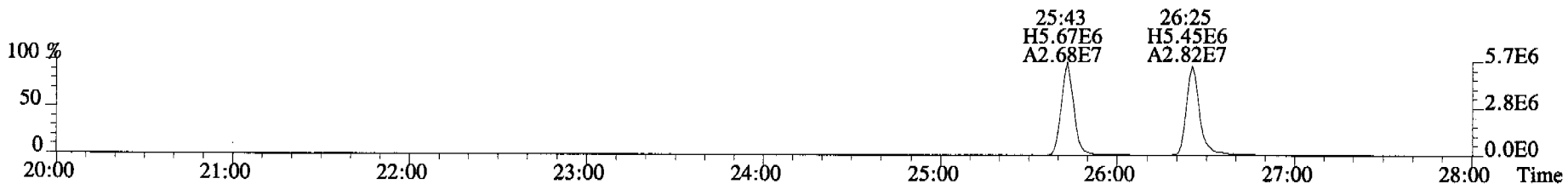
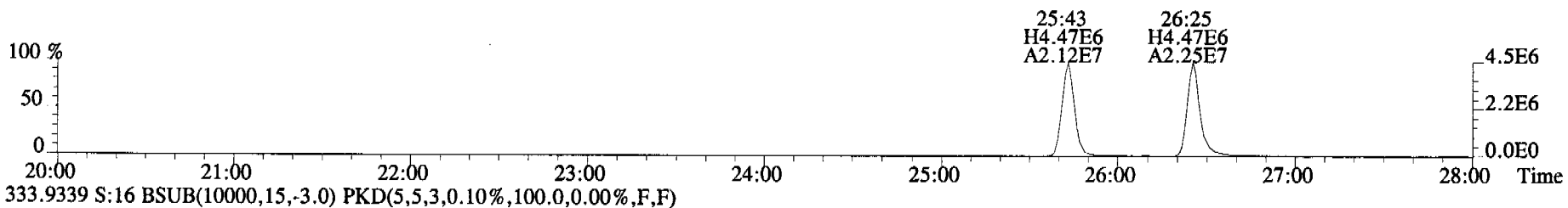
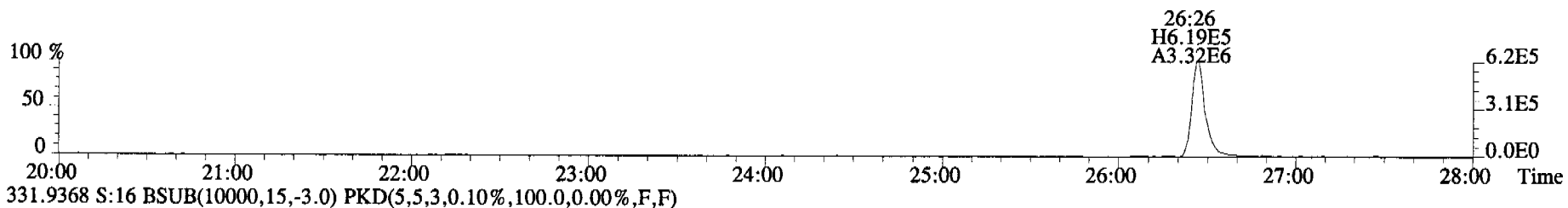
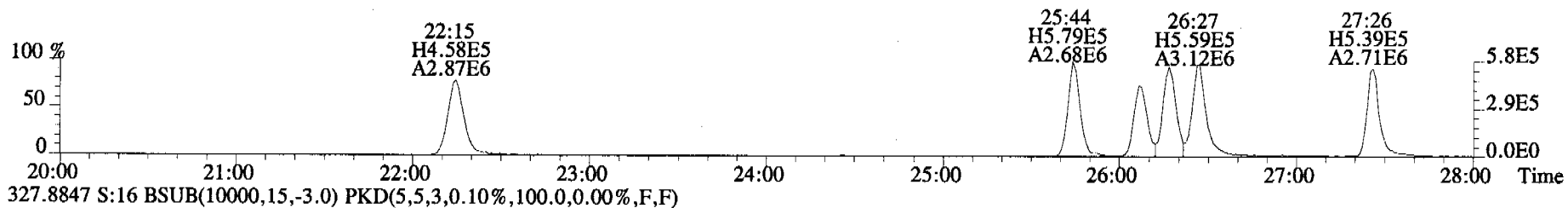
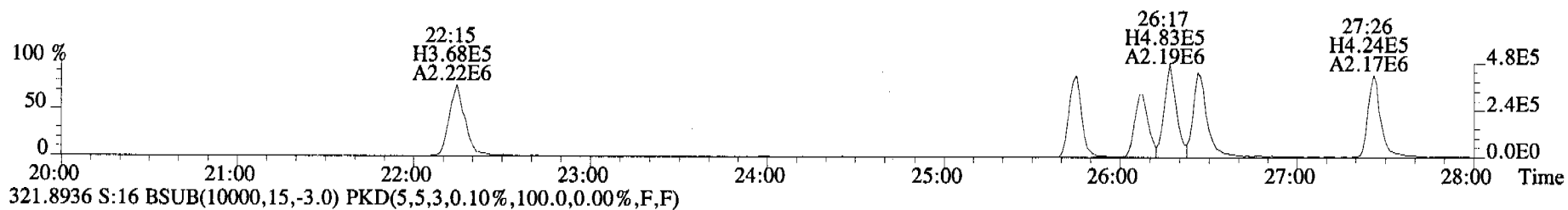
Alta Analytical Laboratory - Injection Log Run file: 060920C2 Instrument ID: VG-5 GC Column ID: db-5

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
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060920C2	2	0_8381_OPR001	MAS	20-SEP-06	16:04:31	ST060920C2-1	ST060920C2-2
060920C2	3	0_8382_OPR001	MAS	20-SEP-06	16:54:06	ST060920C2-1	ST060920C2-2
060920C2	4	SOLVENT BLANK	MAS	20-SEP-06	17:43:41	ST060920C2-1	ST060920C2-2
060920C2	5	0_8381_MB001	MAS	20-SEP-06	18:33:15	ST060920C2-1	ST060920C2-2
060920C2	6	0_8382_MB001	MAS	20-SEP-06	19:22:48	ST060920C2-1	ST060920C2-2
060920C2	7	28101_8381_001	MAS	20-SEP-06	20:12:26	ST060920C2-1	ST060920C2-2
060920C2	8	28101_8381_002	MAS	20-SEP-06	21:02:04	ST060920C2-1	ST060920C2-2
060920C2	9	28110_8381_001	MAS	20-SEP-06	21:51:37	ST060920C2-1	ST060920C2-2
060920C2	10	28111_8381_001	MAS	20-SEP-06	22:41:10	ST060920C2-1	ST060920C2-2
060920C2	11	28112_8381_001	MAS	20-SEP-06	23:30:43	ST060920C2-1	ST060920C2-2
060920C2	12	28113_8381_001	MAS	21-SEP-06	00:20:15	ST060920C2-1	ST060920C2-2
060920C2	13	28114_8381_001	MAS	21-SEP-06	01:09:54	ST060920C2-1	ST060920C2-2
060920C2	14	28074_8382_001	MAS	21-SEP-06	01:59:27	ST060920C2-1	ST060920C2-2
060920C2	15	SOLVENT BLANK	MAS	21-SEP-06	02:48:56	ST060920C2-1	ST060920C2-2
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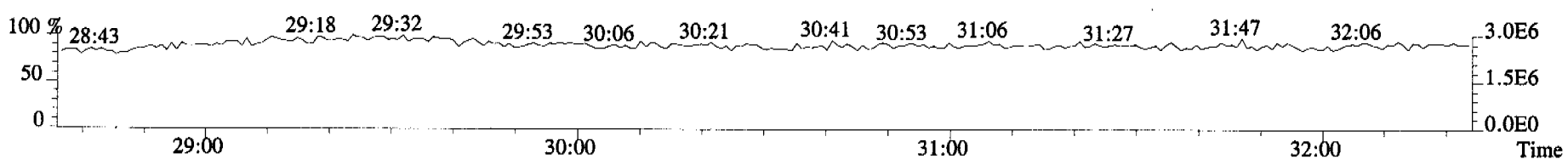
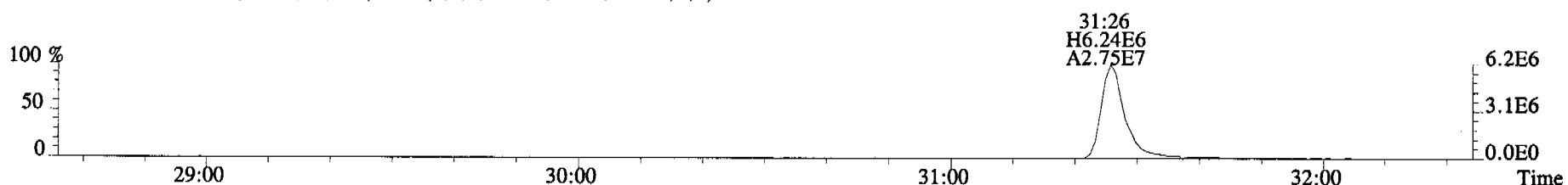
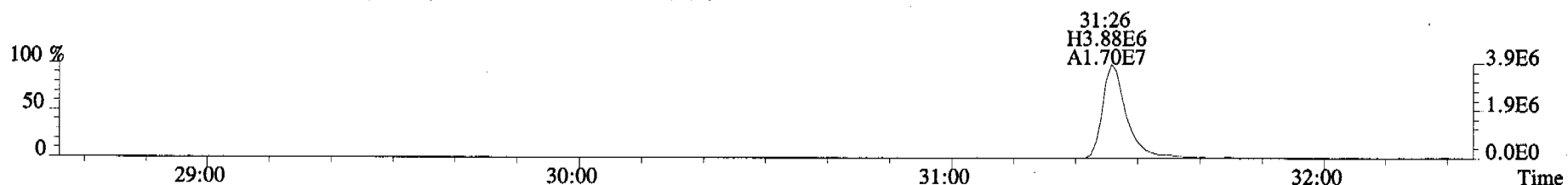
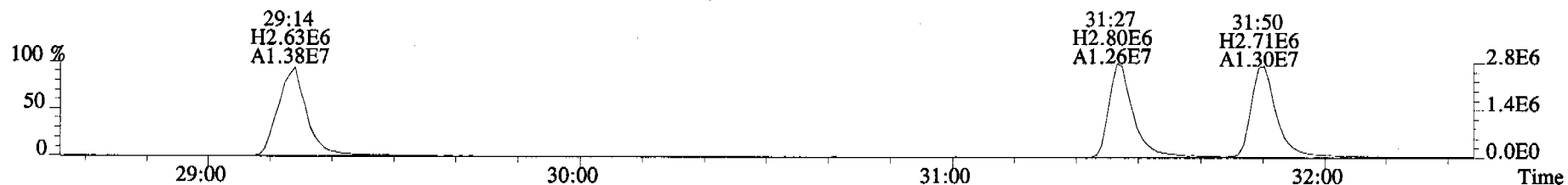
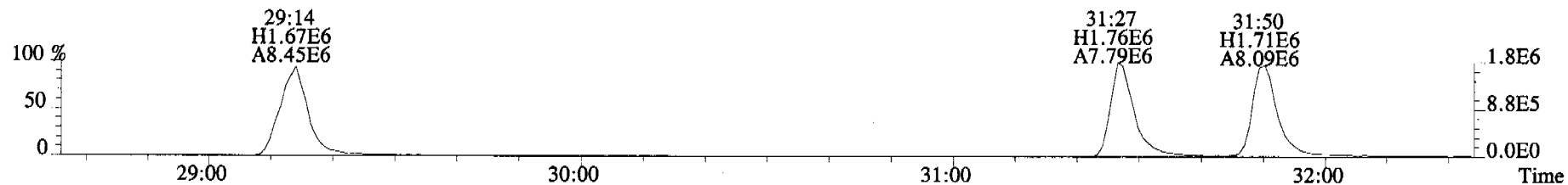
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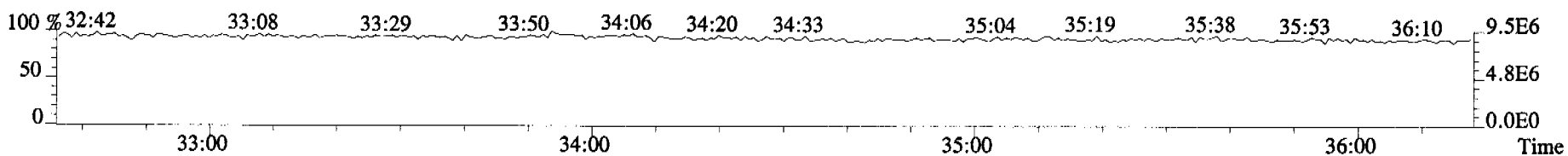
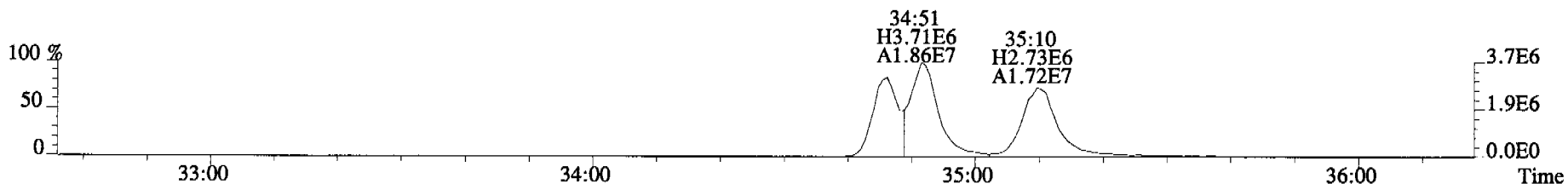
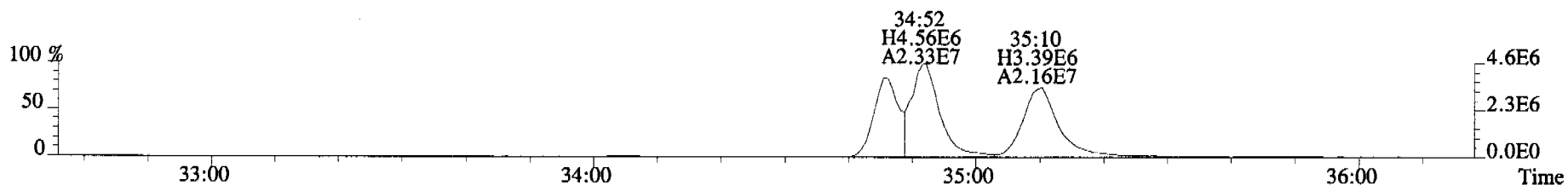
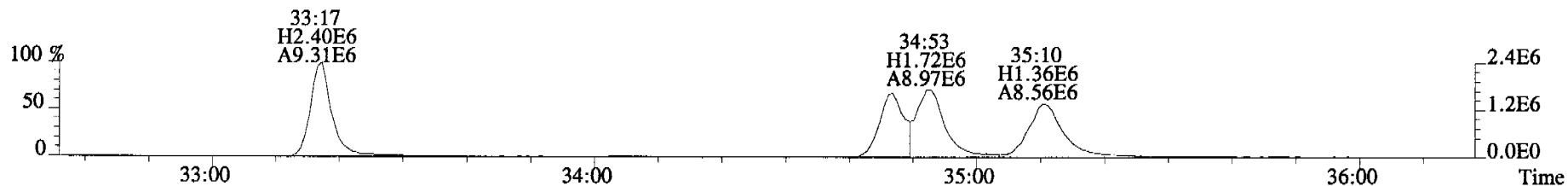
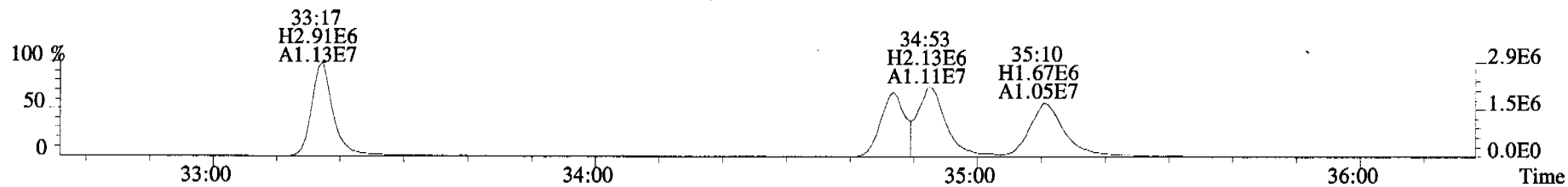
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319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



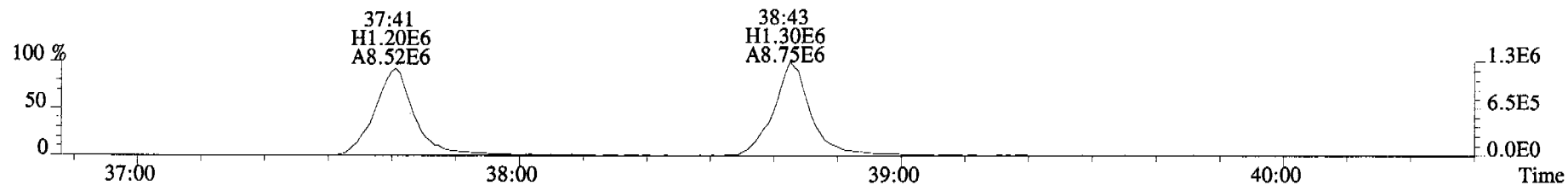
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353.8576 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



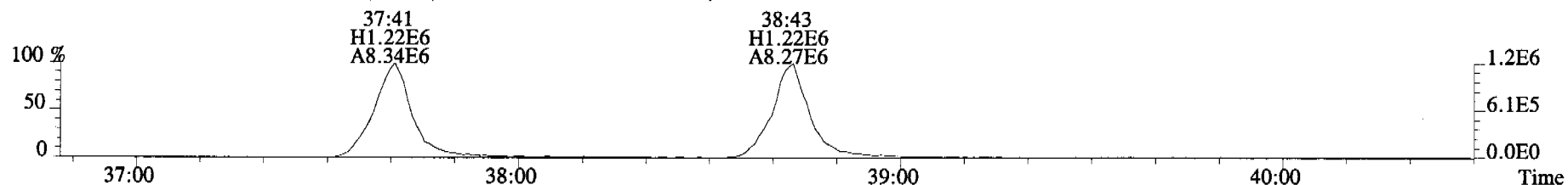
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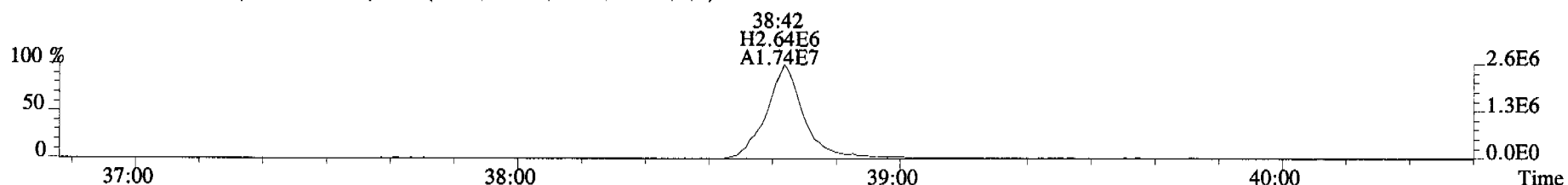
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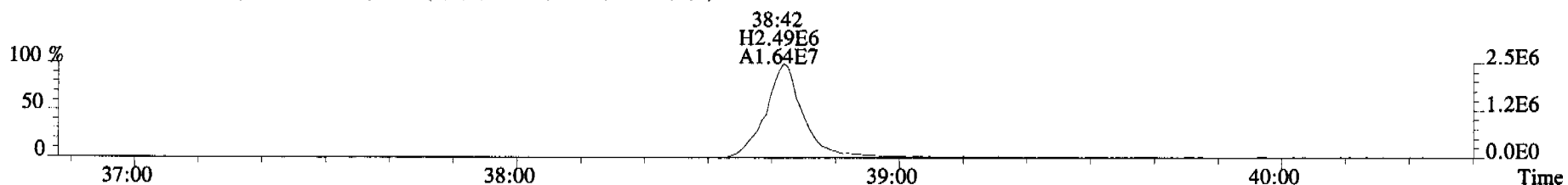
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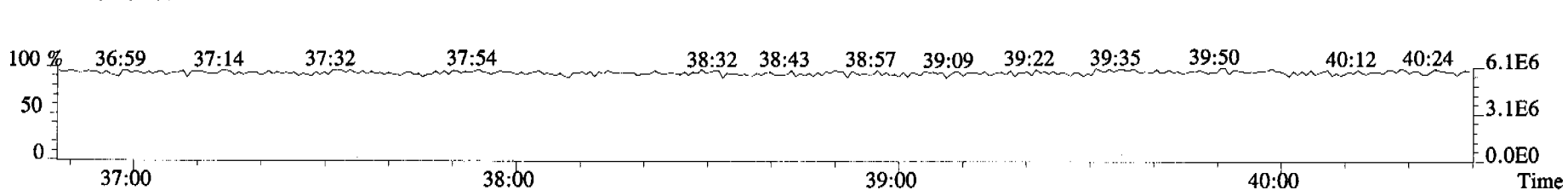
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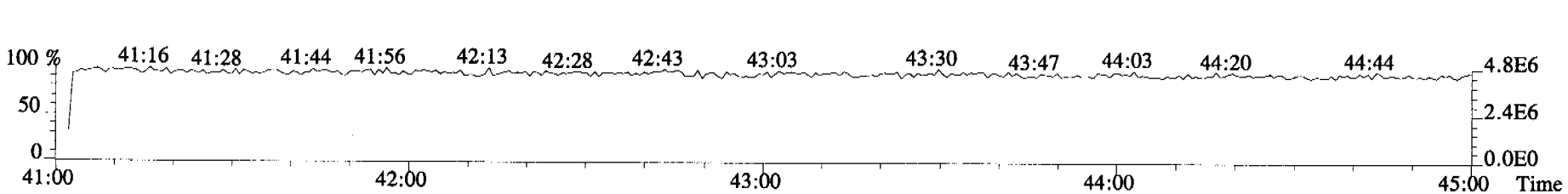
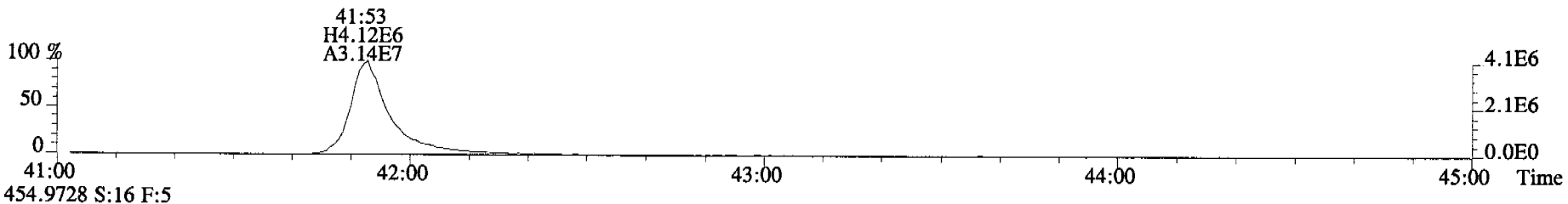
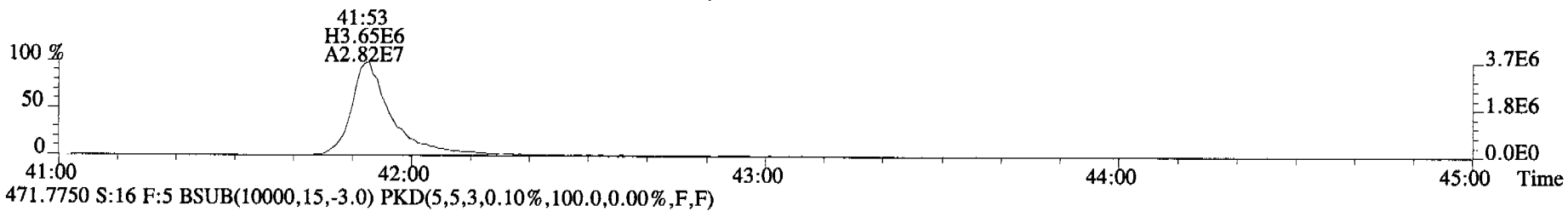
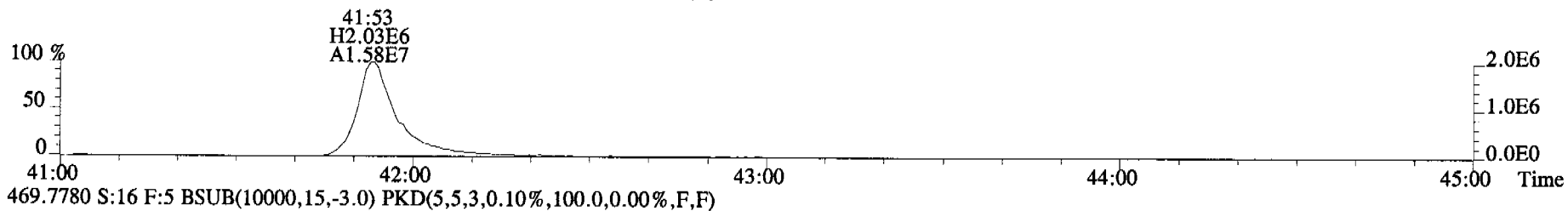
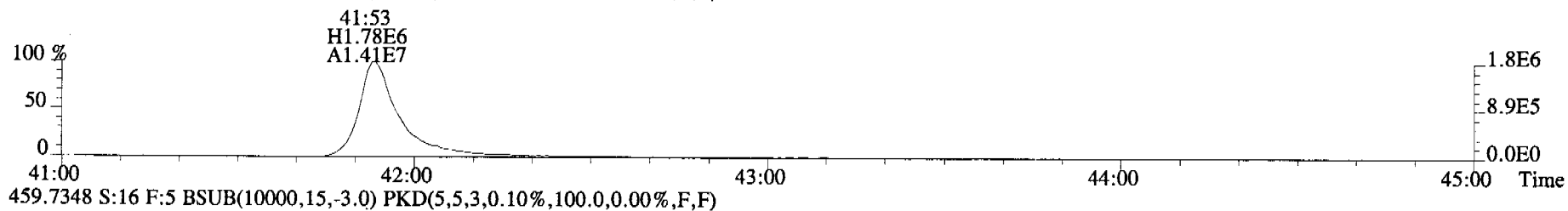
437.8140 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



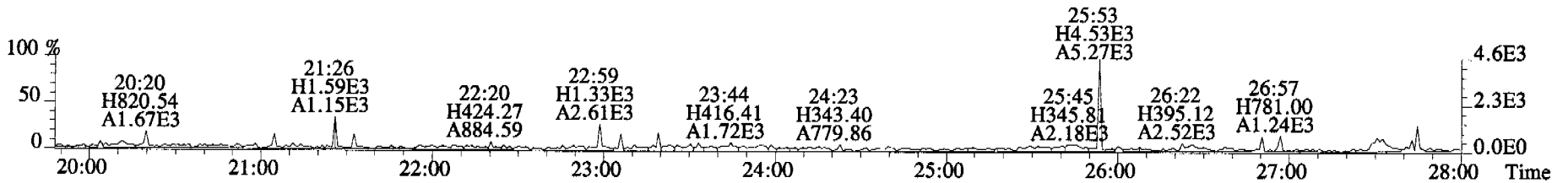
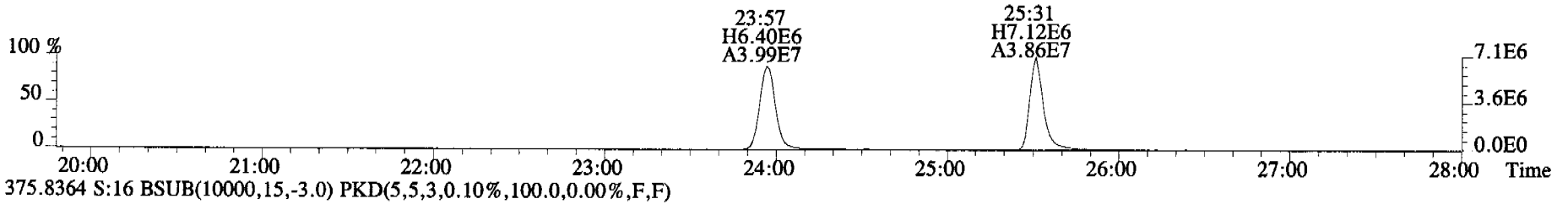
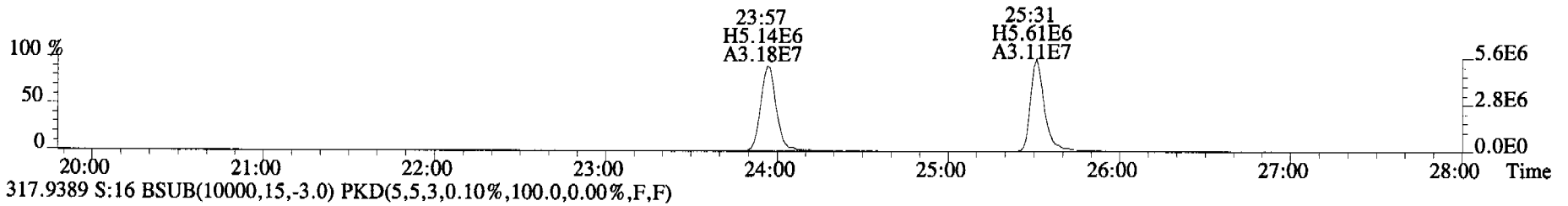
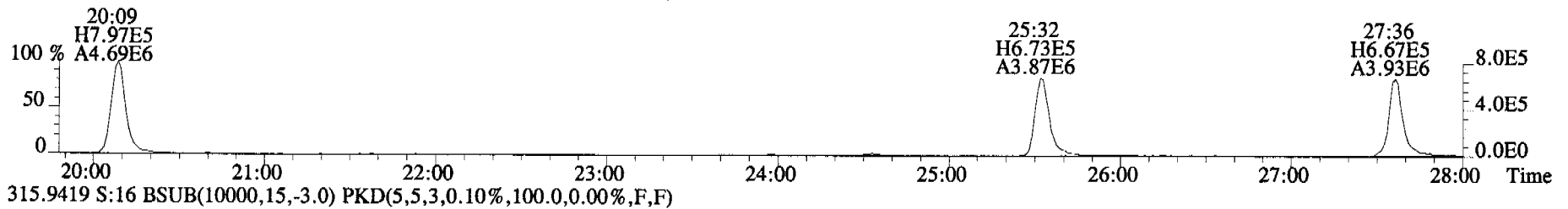
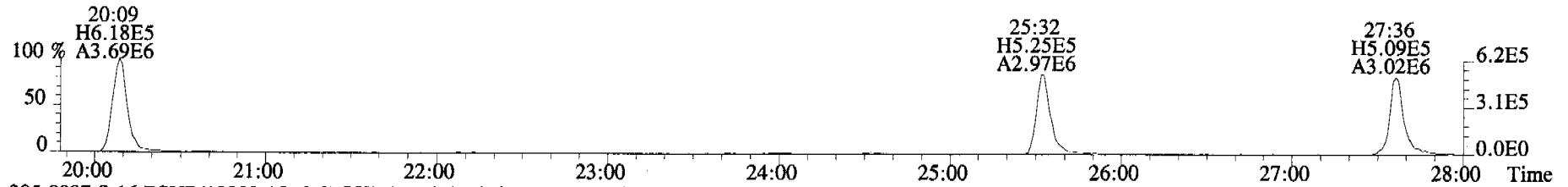
430.9728 S:16 F:4



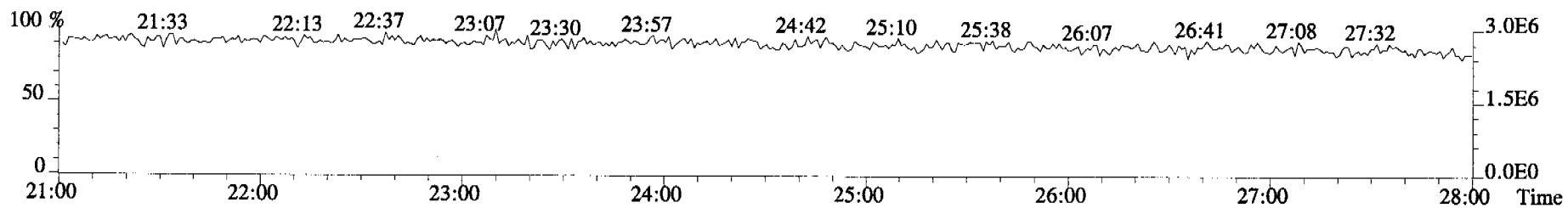
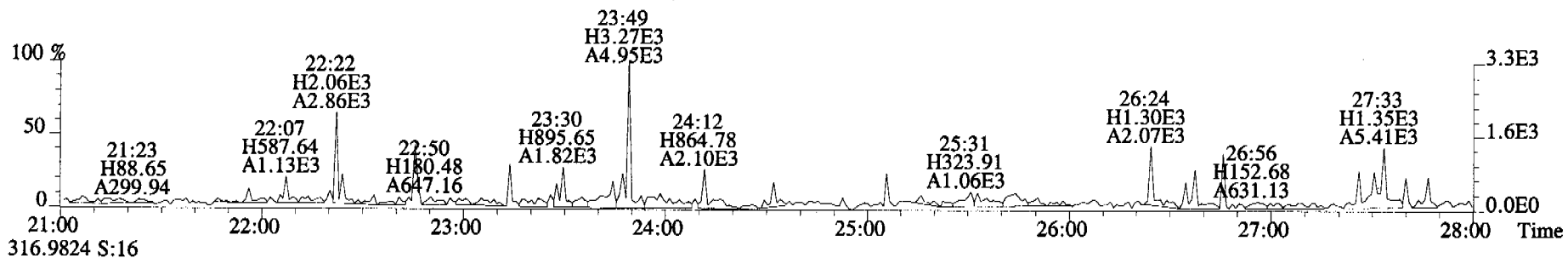
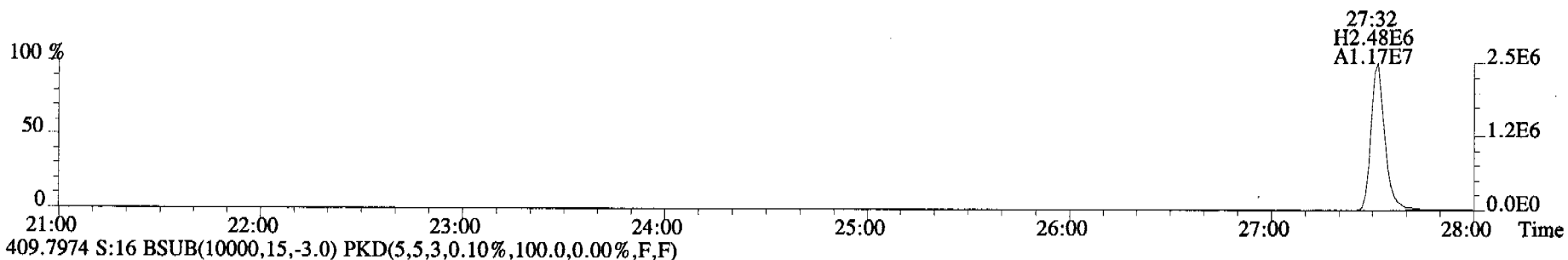
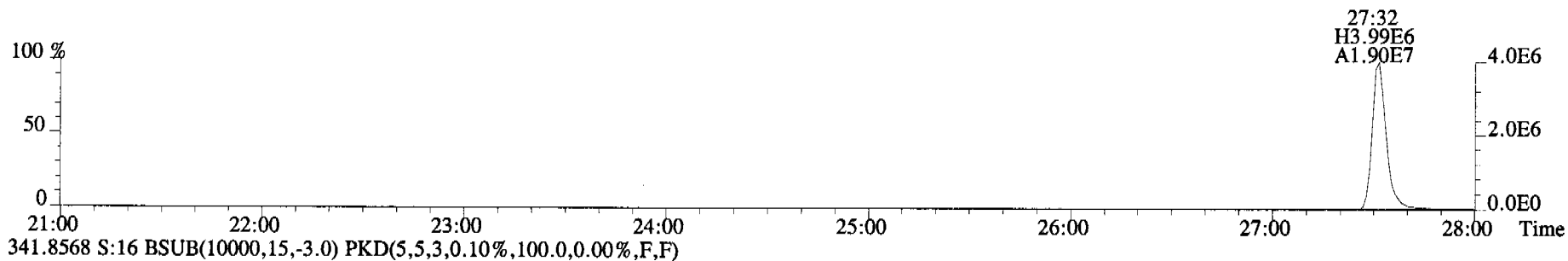
File:060920C2 #1-345 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



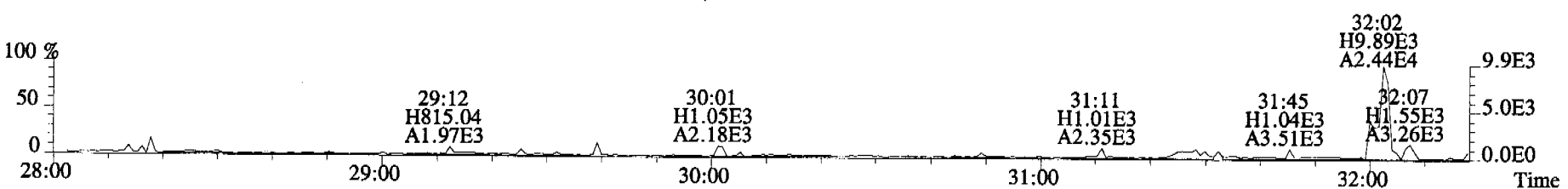
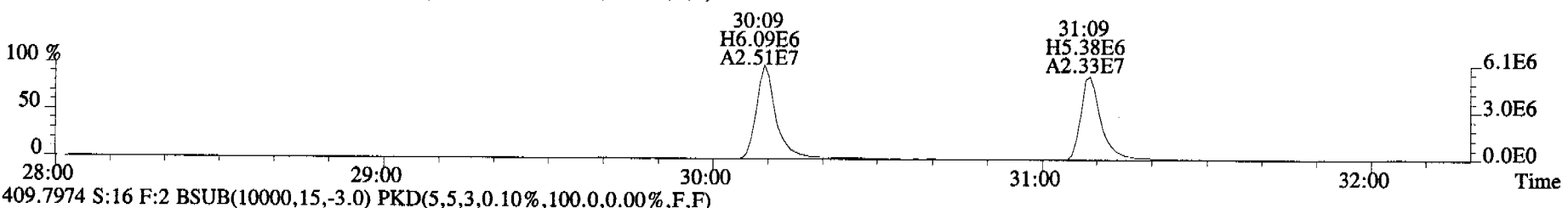
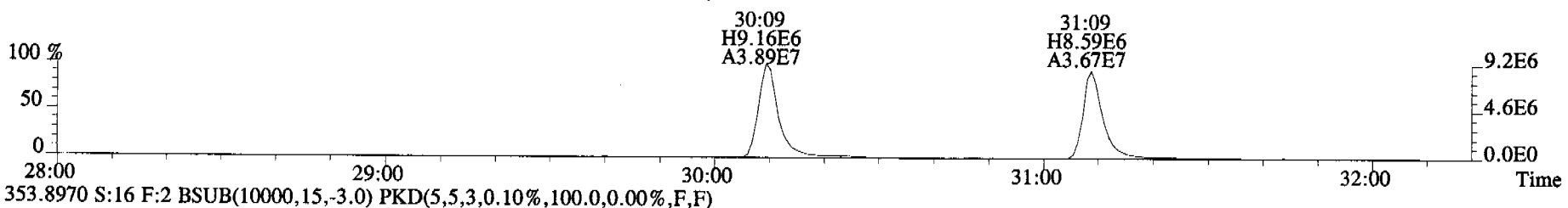
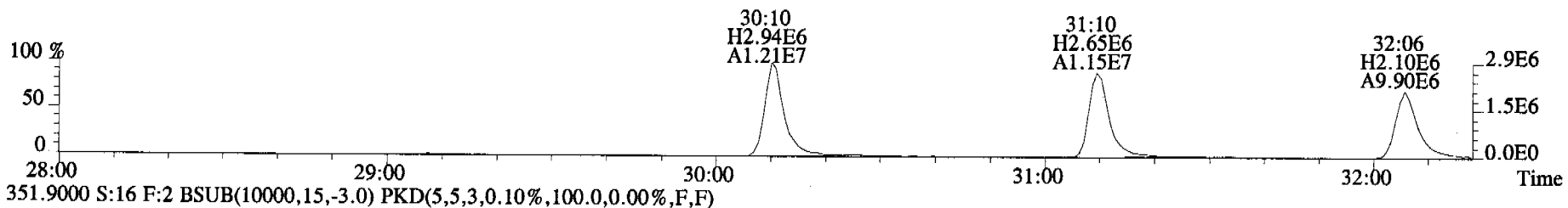
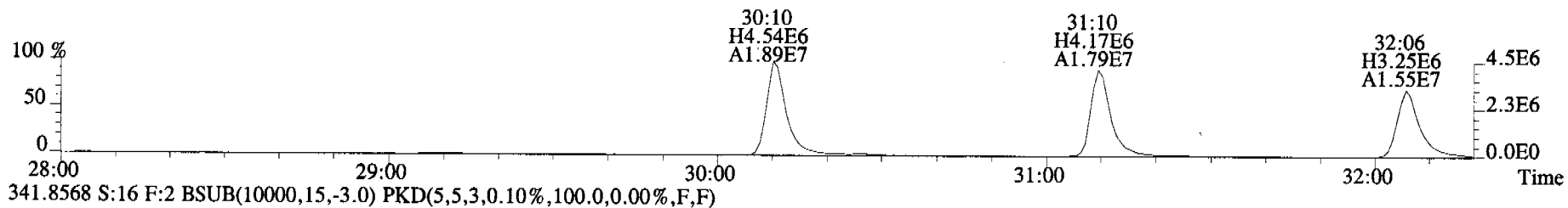
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



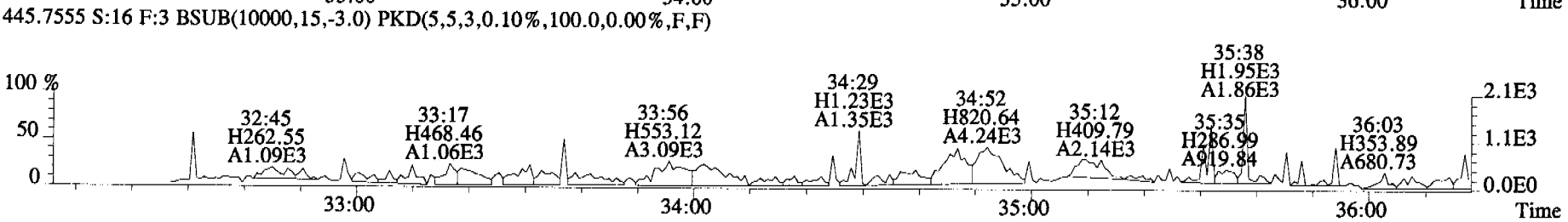
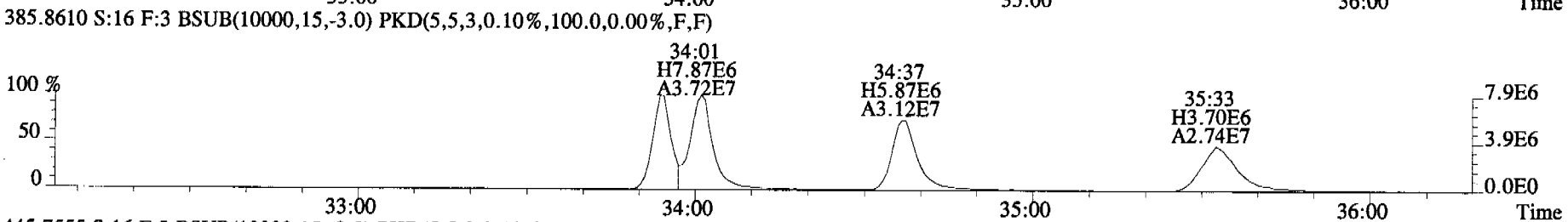
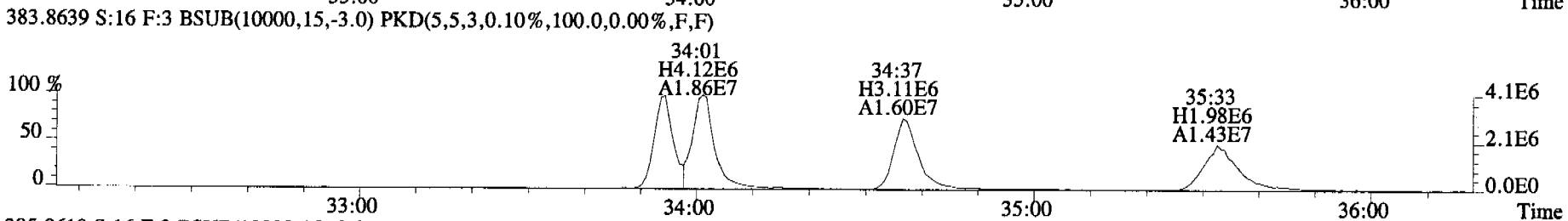
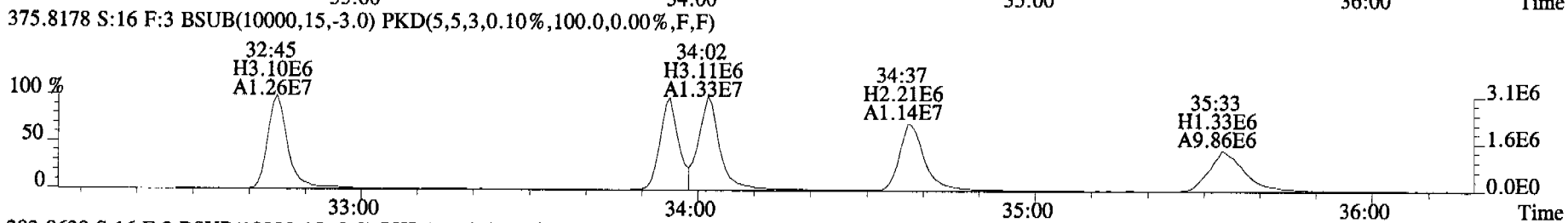
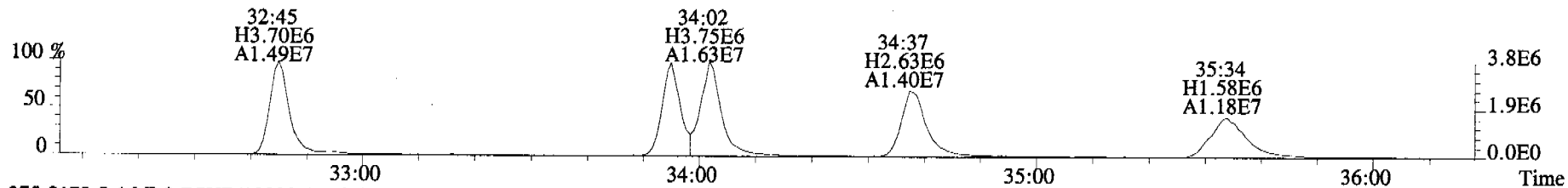
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



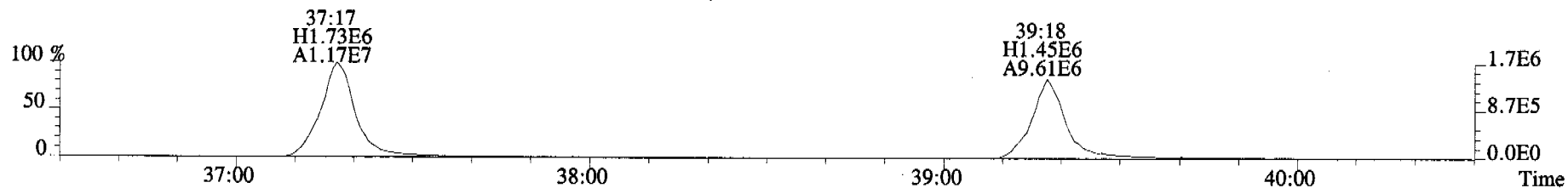
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



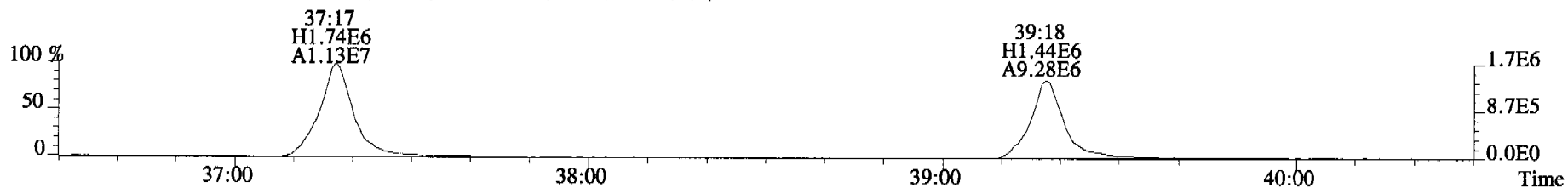
File:060920C2 #1-363 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



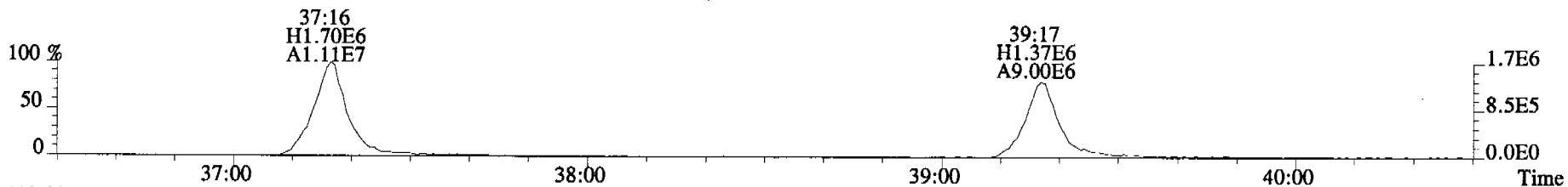
File:060920C2 #1-400 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



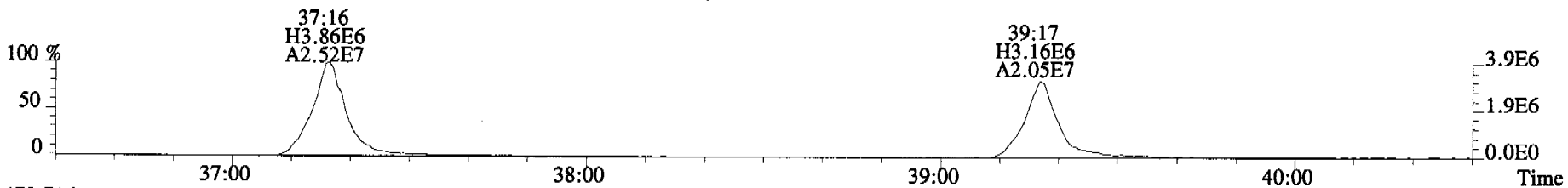
409.7788 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



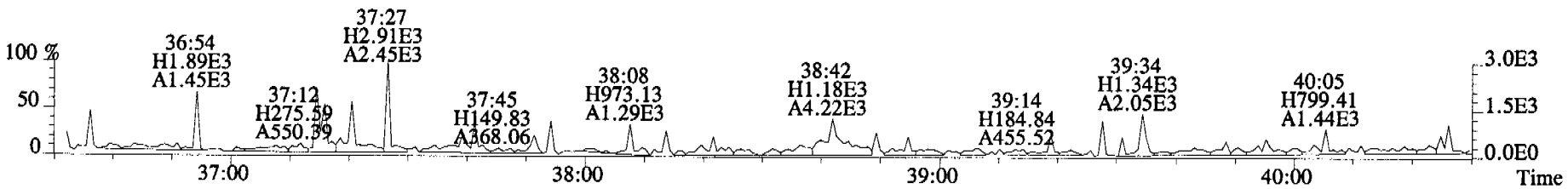
417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



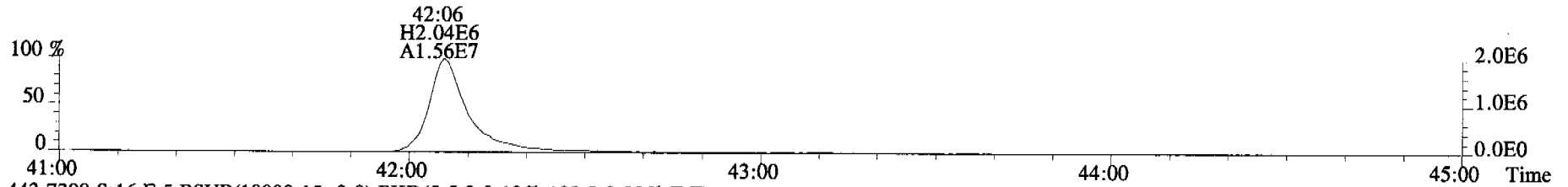
419.8220 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



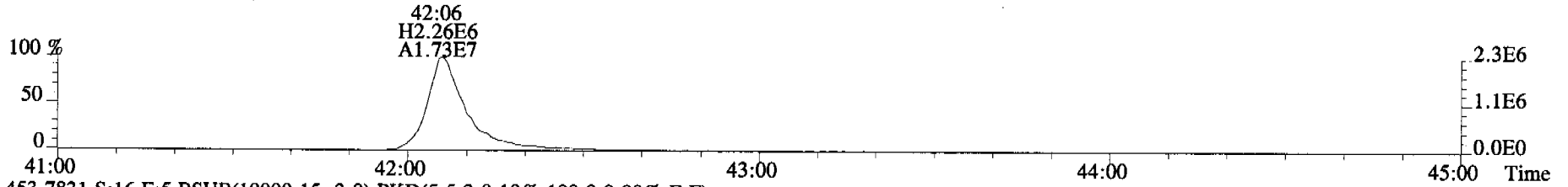
479.7165 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



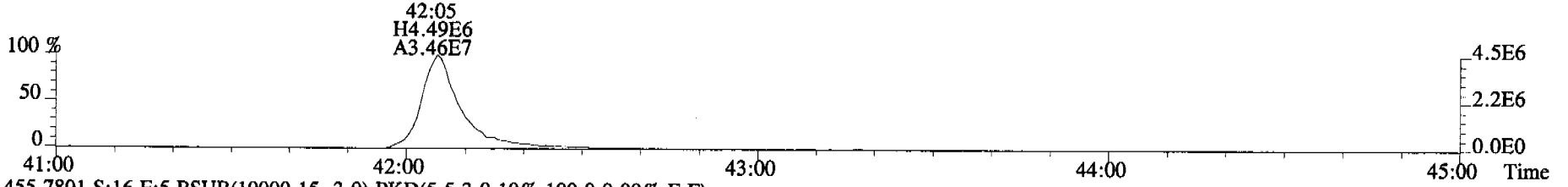
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD_DB5
441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



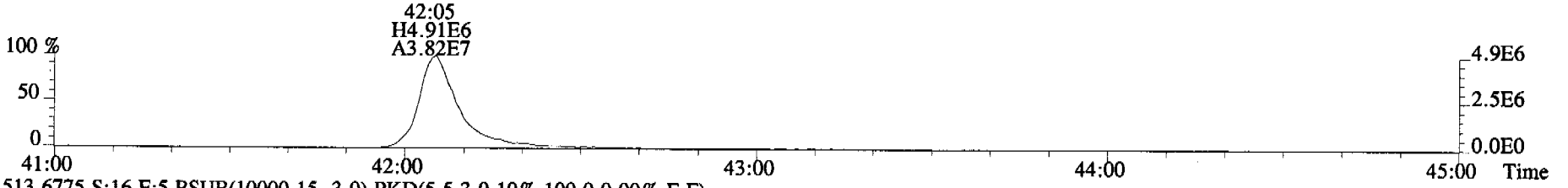
443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



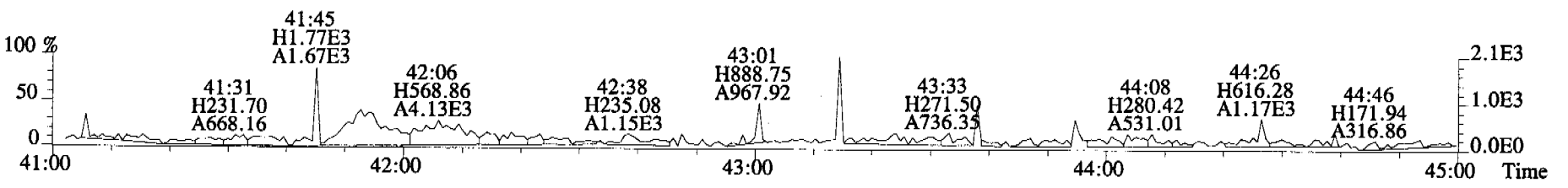
453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

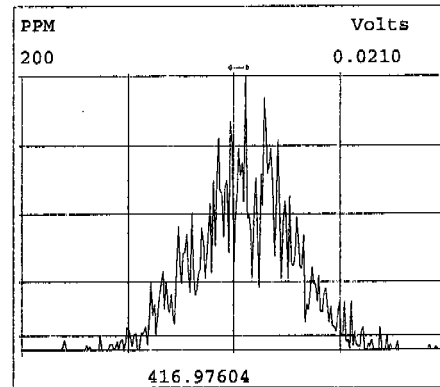
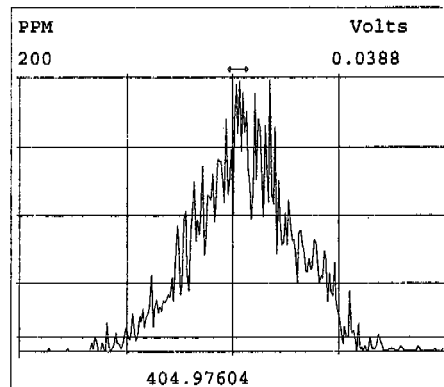
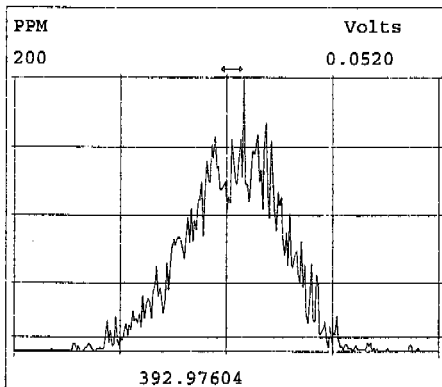
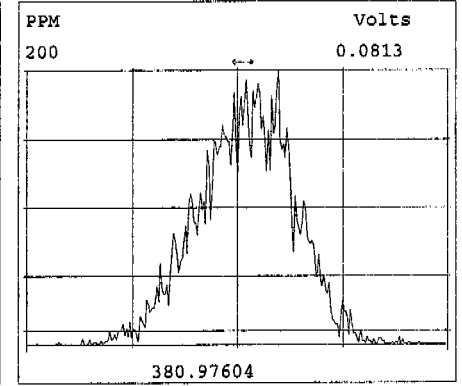
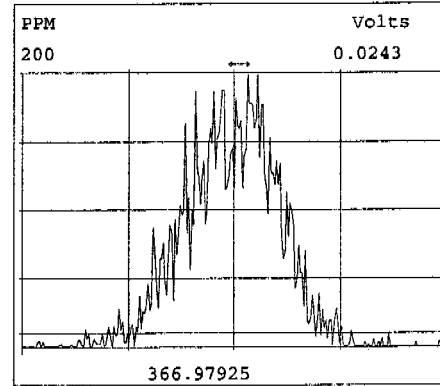
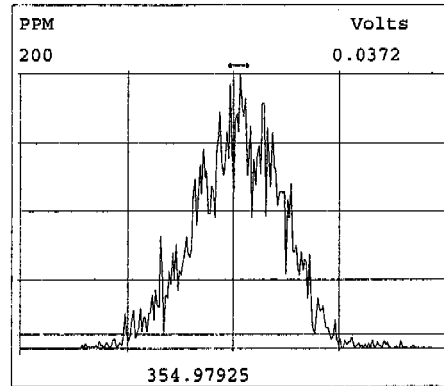
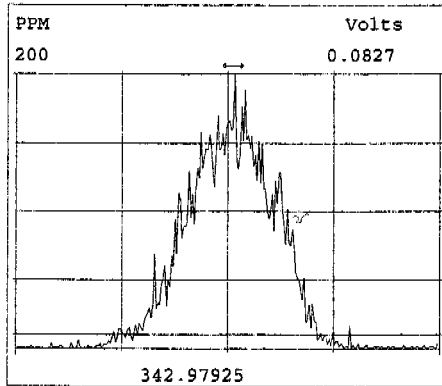
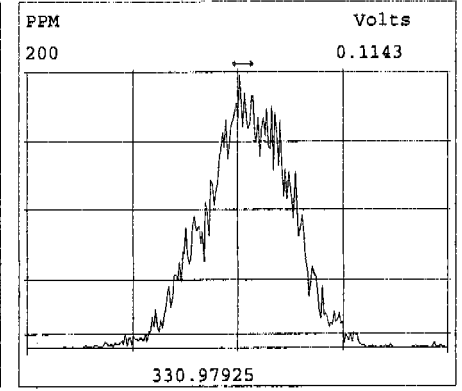
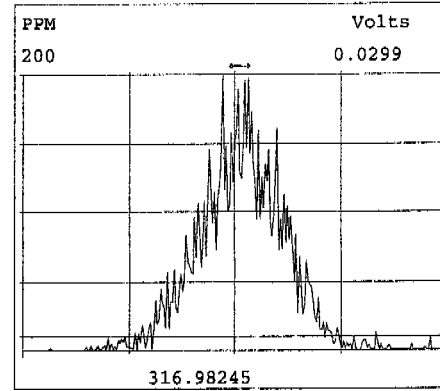
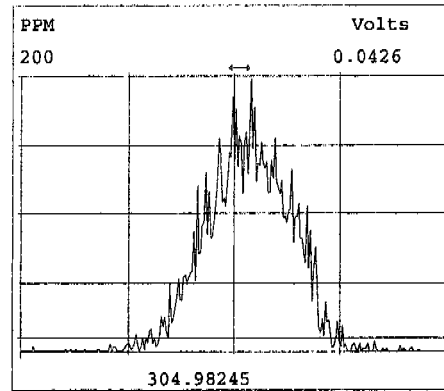
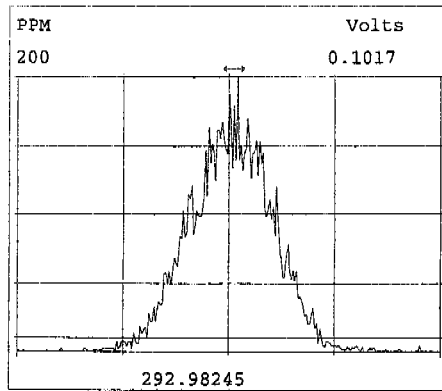


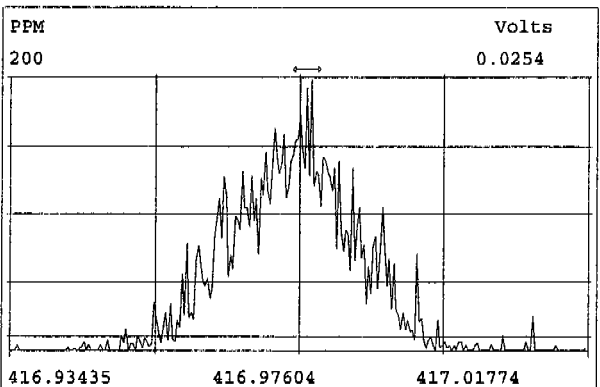
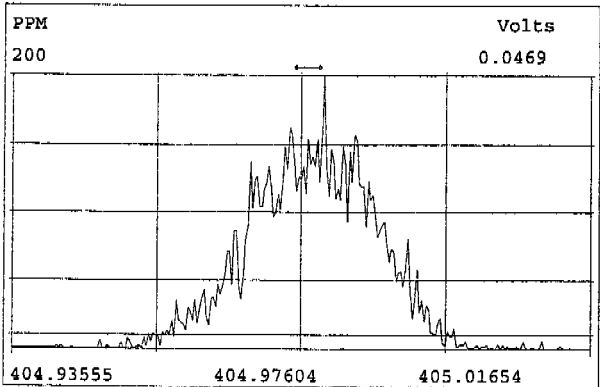
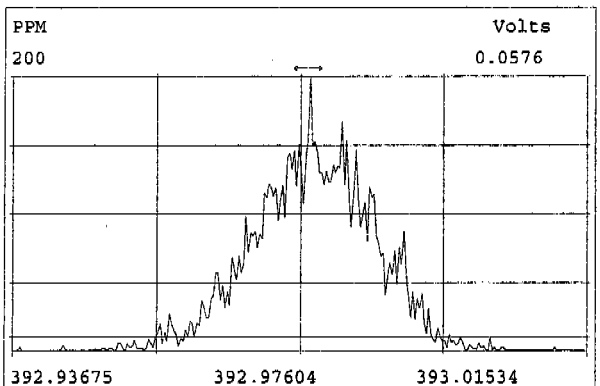
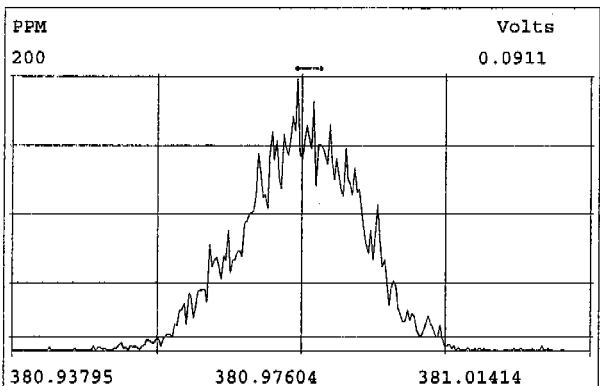
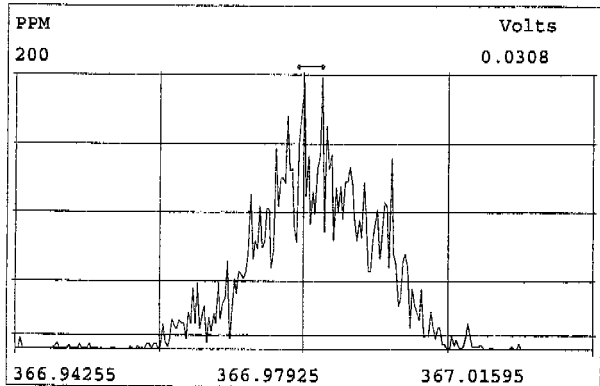
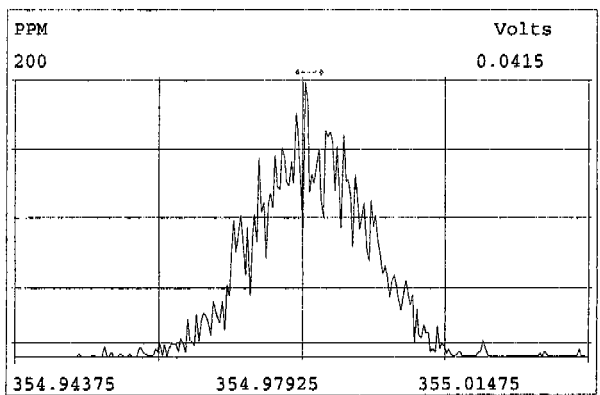
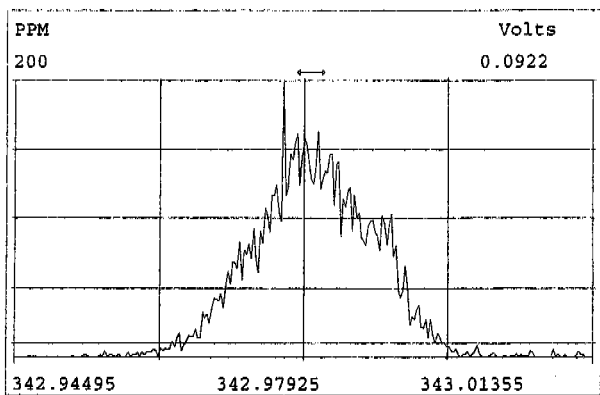
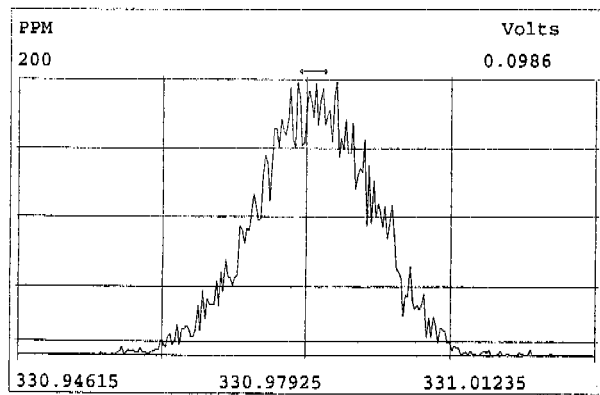
455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

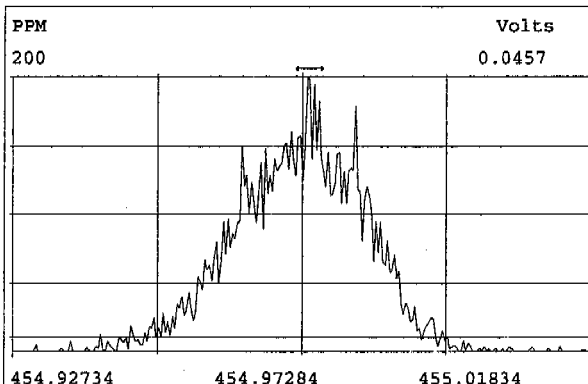
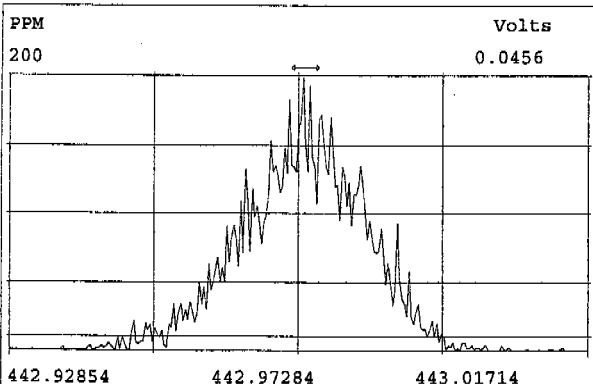
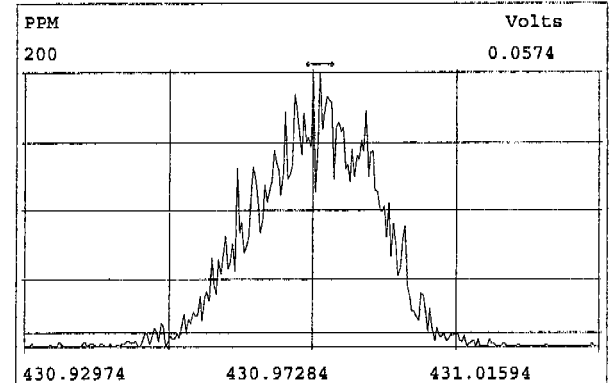
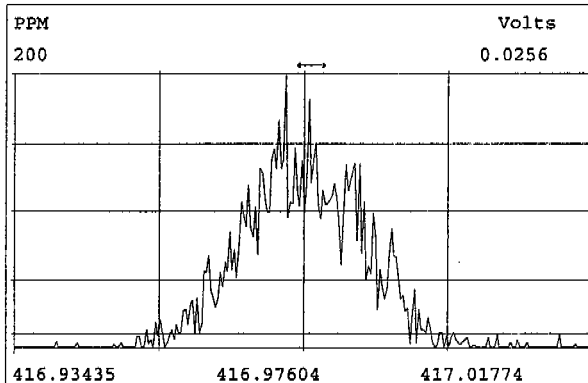
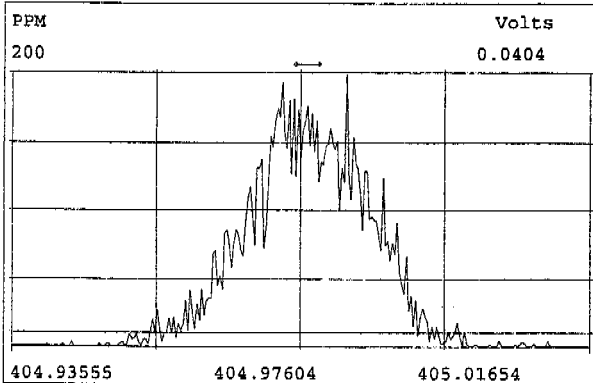
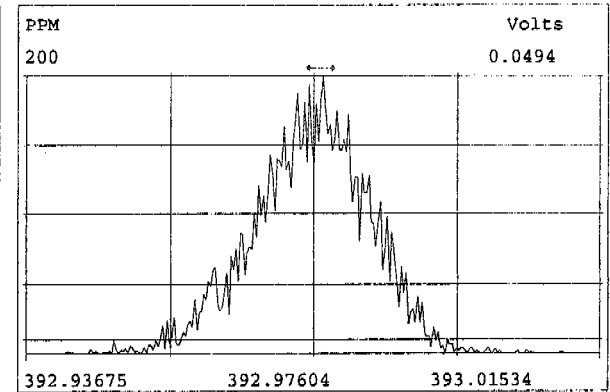
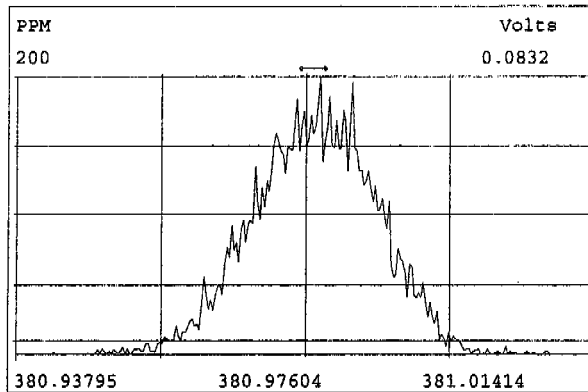
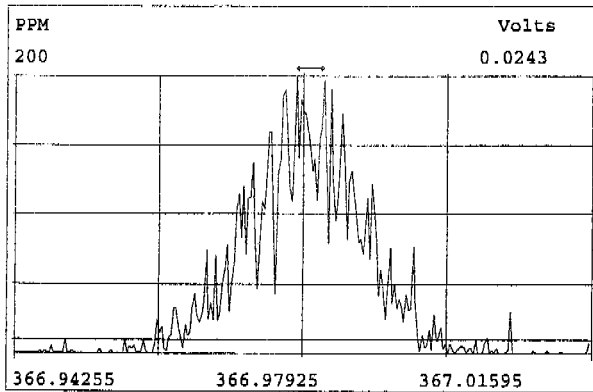


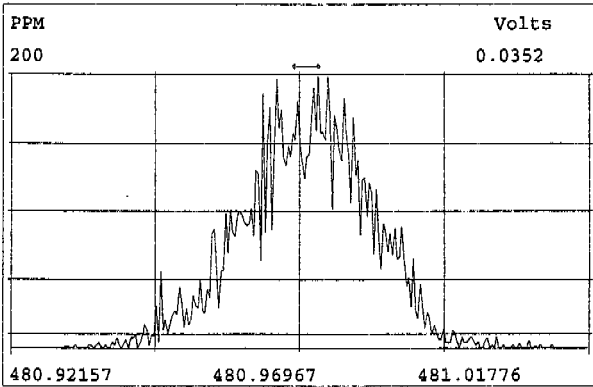
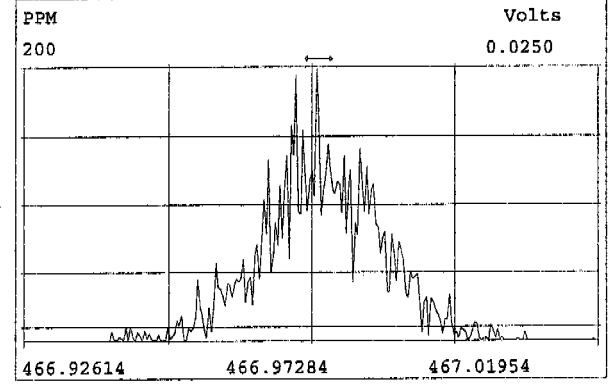
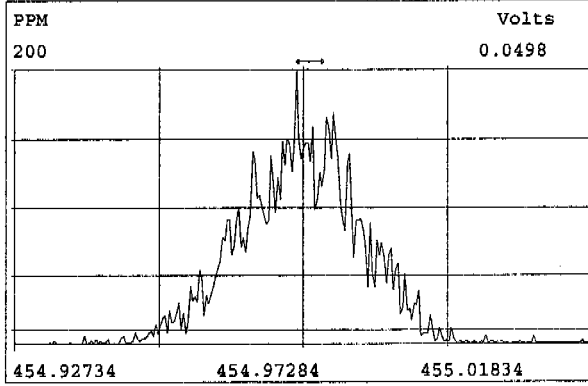
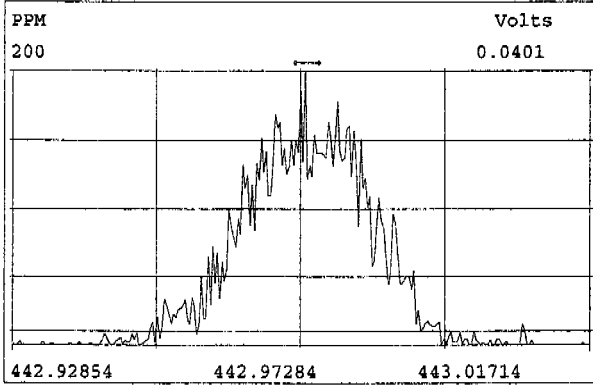
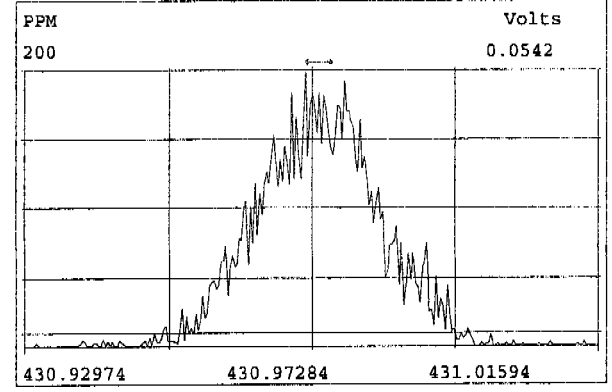
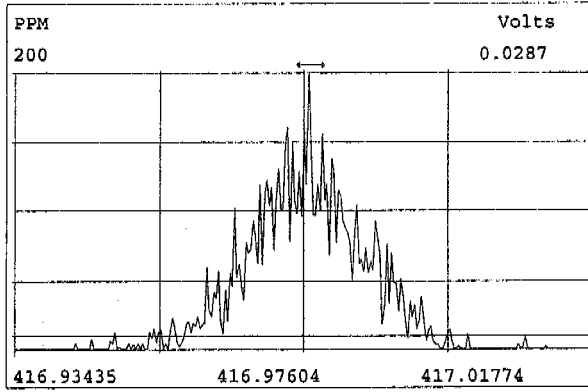
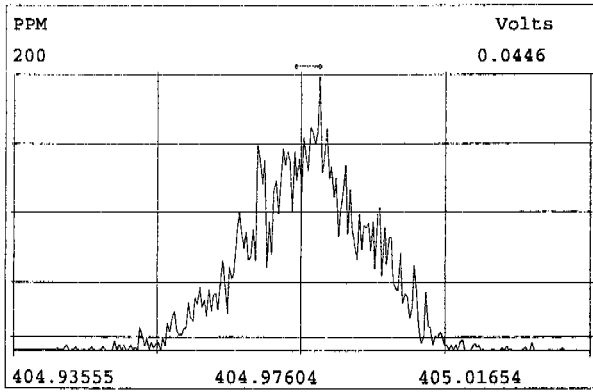
513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

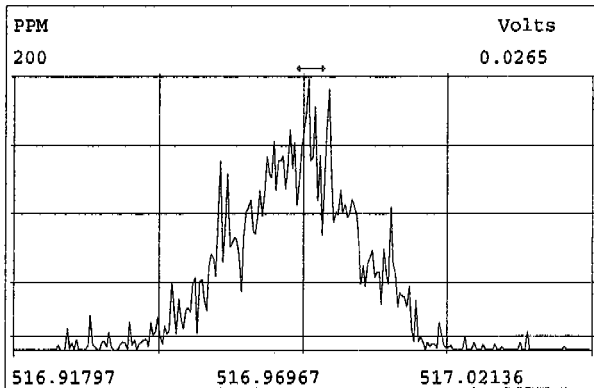
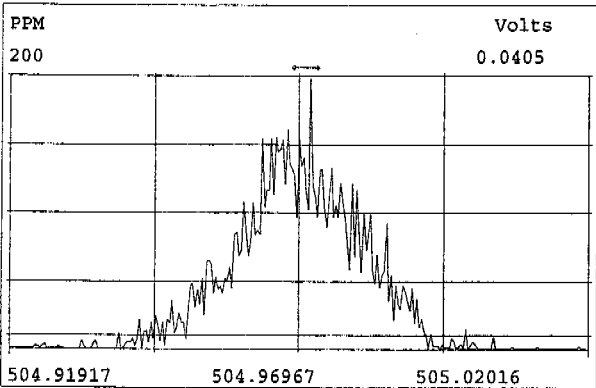
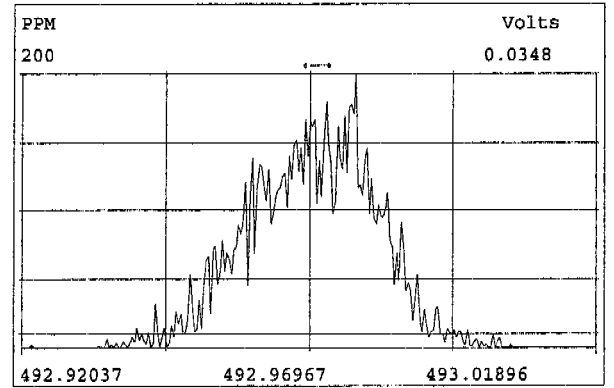
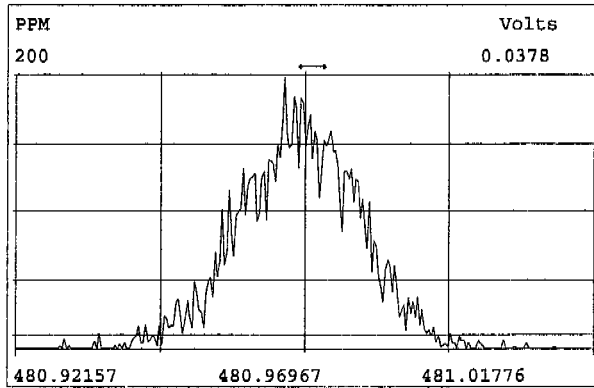
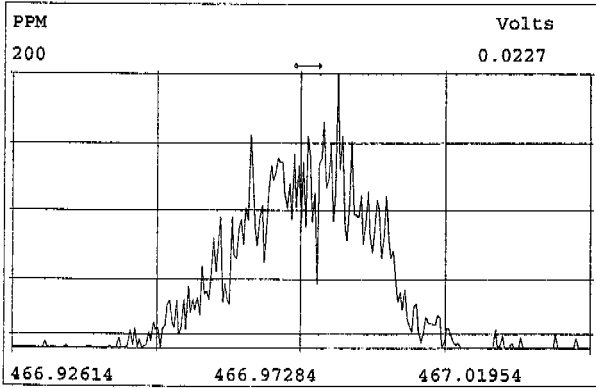
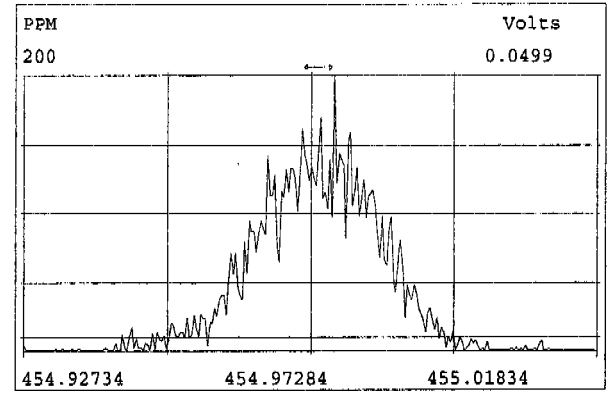
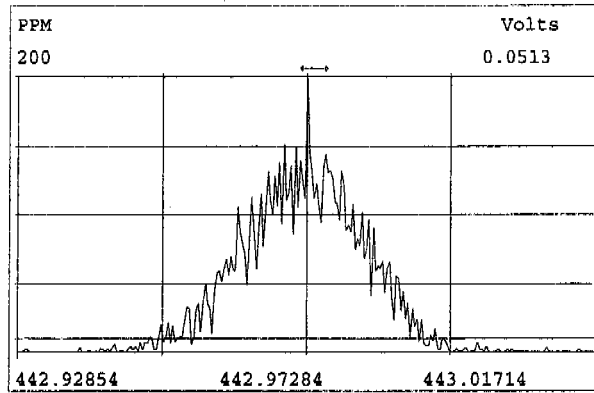
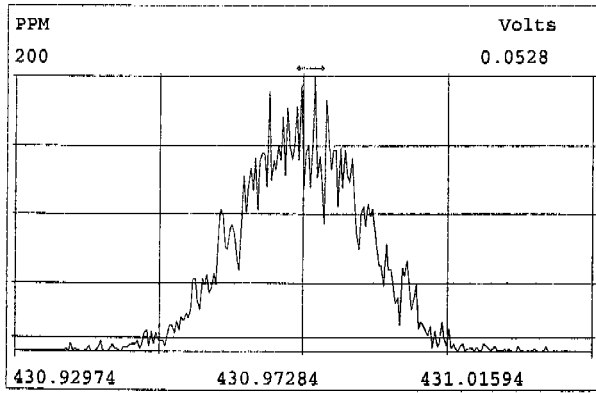












SAMPLE DATA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.08	NotF ₇	*		1130	2.5	1.20	Total Tetra-Dioxins	*	*		1130	1.20
1,2,3,7,8-PeCDD	*	* n	1.03	NotF ₇	*		1970	2.5	1.85	Total Penta-Dioxins	*	*		4610	4.32
1,2,3,4,7,8-HxCDD	*	* n	1.13	NotF ₇	*		775	2.5	1.14	Total Hexa-Dioxins	*	*		775	1.16
1,2,3,6,7,8-HxCDD	*	* n	1.03	NotF ₇	*		775	2.5	1.19	Total Hepta-Dioxins	*	*		1030	2.51
1,2,3,7,8,9-HxCDD	*	* n	1.12	NotF ₇	*		775	2.5	1.13	Total Tetra-Furans	*	*		1530	1.33
1,2,3,4,6,7,8-HpCDD	*	* n	1.02	NotF ₇	*		1030	2.5	2.51	Total Penta-Furans	0.0000	0.0000		3110	3.42
OCDD	*	* n	1.06	NotF ₇	*		1640	2.5	4.89	Total Hexa-Furans	*	*		961	0.802
										Total Hepta-Furans	*	*		868	1.37
2,3,7,8-TCDF	*	* n	1.06	NotF ₇	*		1530	2.5	1.33						
1,2,3,7,8-PeCDF	*	* n	1.01	NotF ₇	*		1810	2.5	1.97						
2,3,4,7,8-PeCDF	*	* n	1.02	NotF ₇	*		1810	2.5	2.01						
1,2,3,4,7,8-HxCDF	*	* n	1.15	NotF ₇	*		961	2.5	0.613						
1,2,3,6,7,8-HxCDF	*	* n	1.14	NotF ₇	*		961	2.5	0.579						
2,3,4,6,7,8-HxCDF	*	* n	1.17	NotF ₇	*		961	2.5	0.710						
1,2,3,7,8,9-HxCDF	*	* n	1.10	NotF ₇	*		961	2.5	1.63						
1,2,3,4,6,7,8-HpCDF	*	* n	1.31	NotF ₇	*		868	2.5	1.21						
1,2,3,4,7,8,9-HpCDF	*	* n	1.33	NotF ₇	*		868	2.5	1.60						
OCDF	*	* n	0.91	NotF ₇	*		1190	2.5	3.80						

Rec Qual

IS	13C-2,3,7,8-TCDD	3.65e+07	0.80 y	1.09	26:24	1610.3	80.5
IS	13C-1,2,3,7,8-PeCDD	3.10e+07	0.61 y	1.04	31:24	1428.4	71.4
IS	13C-1,2,3,4,7,8-HxCDD	2.67e+07	1.25 y	0.83	34:43	1668.3	83.4
IS	13C-1,2,3,6,7,8-HxCDD	3.32e+07	1.27 y	1.04	34:50	1654.0	82.7
IS	13C-1,2,3,4,6,7,8-HpCDD	2.54e+07	1.05 y	0.85	38:39	1542.3	77.1
IS	13C-OCDD	3.87e+07	0.89 y	0.71	41:51	2809.4	70.2
IS	13C-2,3,7,8-TCDF	4.93e+07	0.78 y	0.96	25:30	1601.3	80.1
IS	13C-1,2,3,7,8-PeCDF	4.75e+07	1.60 y	1.02	30:08	1453.4	72.7
IS	13C-2,3,4,7,8-PeCDF	4.29e+07	1.57 y	1.02	31:07	1310.4	65.5
IS	13C-1,2,3,4,7,8-HxCDF	3.96e+07	0.52 y	1.14	33:52	1788.7	89.4
IS	13C-1,2,3,6,7,8-HxCDF	4.61e+07	0.52 y	1.40	33:59	1702.5	85.1
IS	13C-2,3,4,6,7,8-HxCDF	3.91e+07	0.51 y	1.26	34:35	1603.0	80.1
IS	13C-1,2,3,7,8,9-HxCDF	2.67e+07	0.51 y	1.08	35:30	1275.4	63.8
IS	13C-1,2,3,4,6,7,8-HpCDF	2.54e+07	0.45 y	0.93	37:14	1405.3	70.3
IS	13C-1,2,3,4,7,8,9-HpCDF	1.72e+07	0.42 y	0.77	39:14	1161.0	58.0
IS	13C-OCDF	4.14e+07	0.88 y	0.94	42:03	2268.3	56.7
C/Up	37C1-2,3,7,8-TCDD	1.05e+07		0.77	26:25	653.51	81.7
RS/RT	13C-1,2,3,4-TCDD	4.16e+07	0.83 y	1.00	25:42	2000.0	
RS	13C-1,2,3,4-TCDF	6.42e+07	0.78 y	1.00	23:56	2000.0	
RS/RT	13C-1,2,3,7,8,9-HxCDD	3.87e+07	1.25 y	1.00	35:07	2000.0	

Integrations

Reviewed

by

by

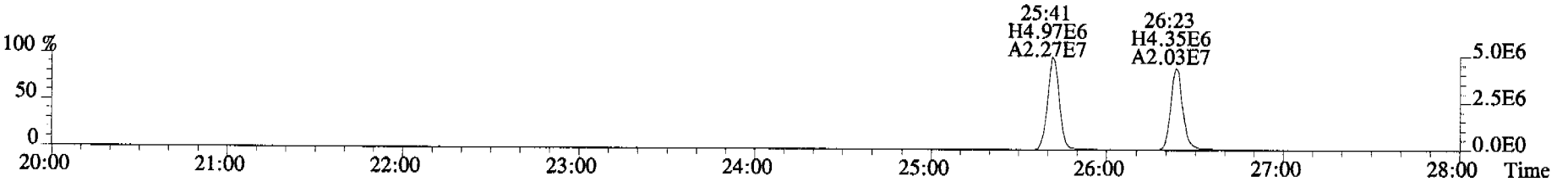
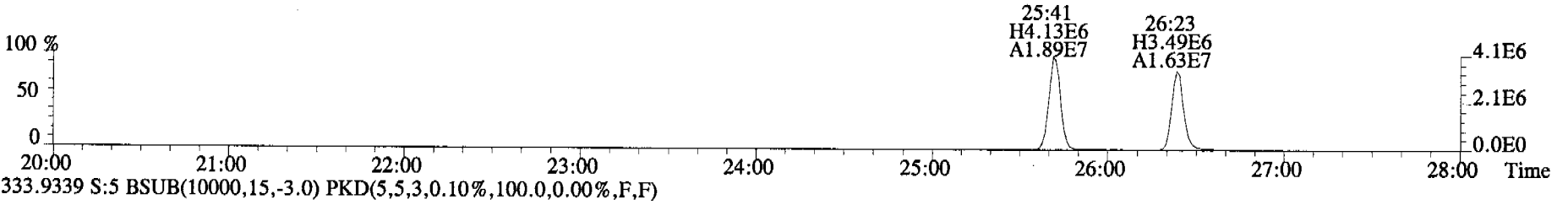
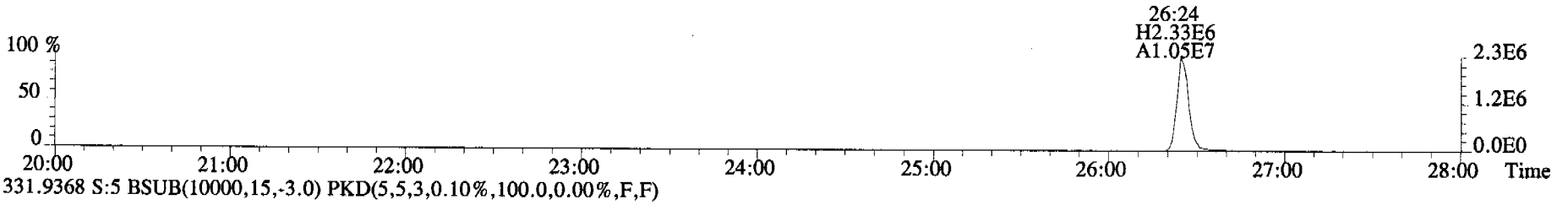
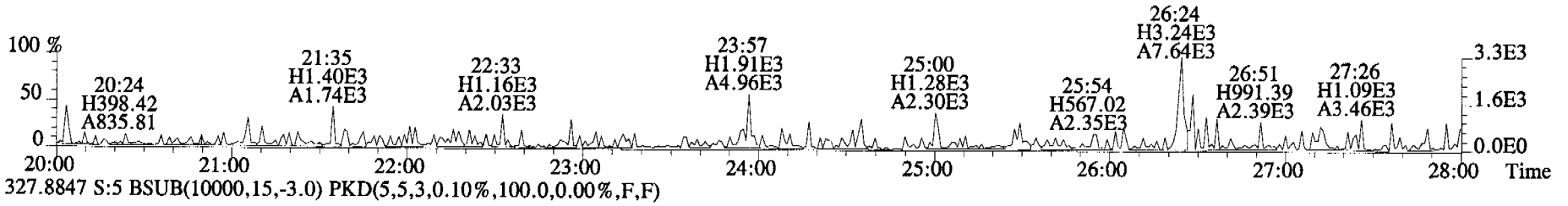
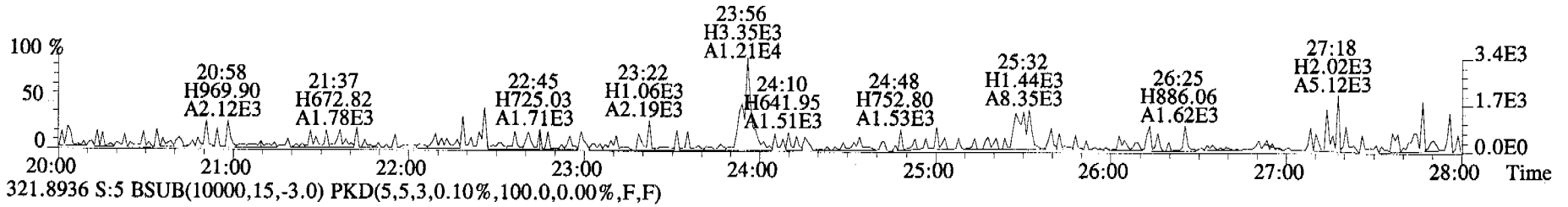
Analyst: MD

Analyst: LU

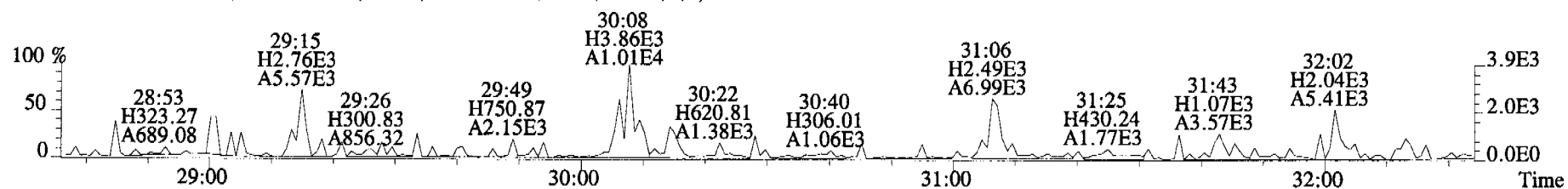
Date: 9/21/06

Date: 9/21/06

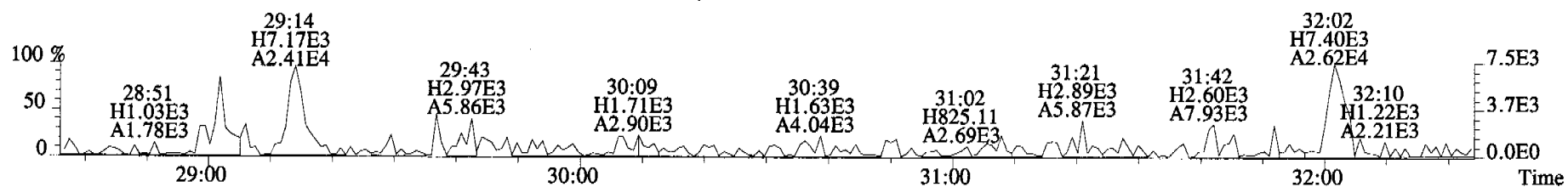
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



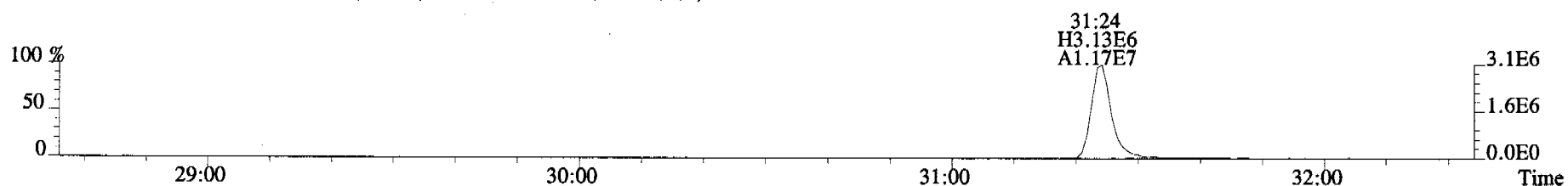
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0_8381_MB001 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



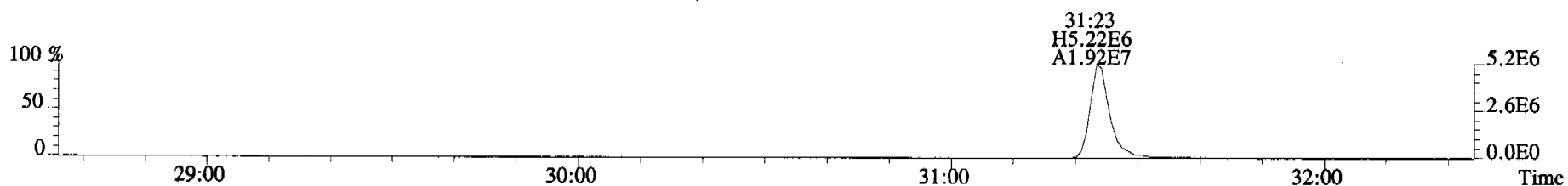
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



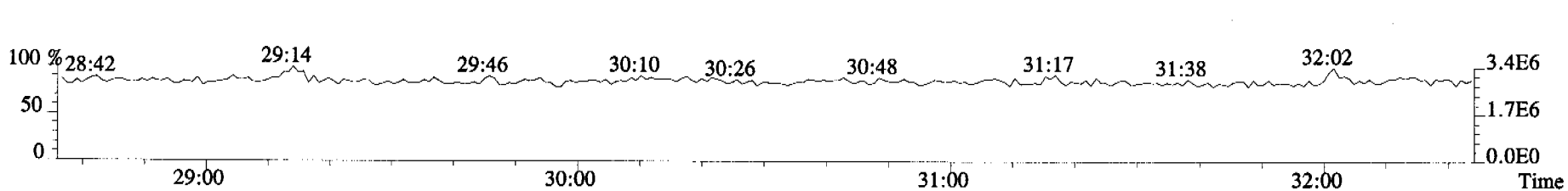
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



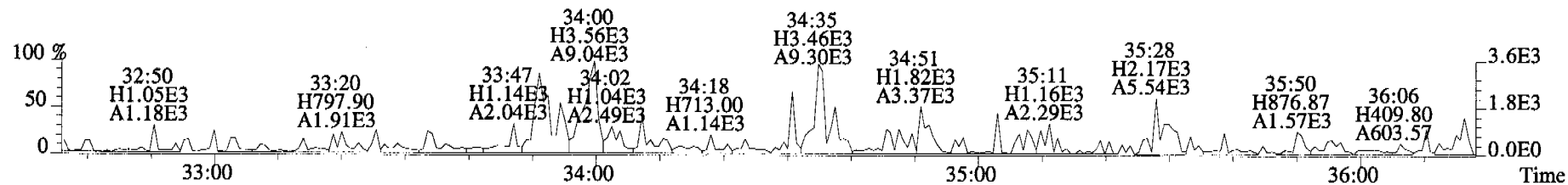
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



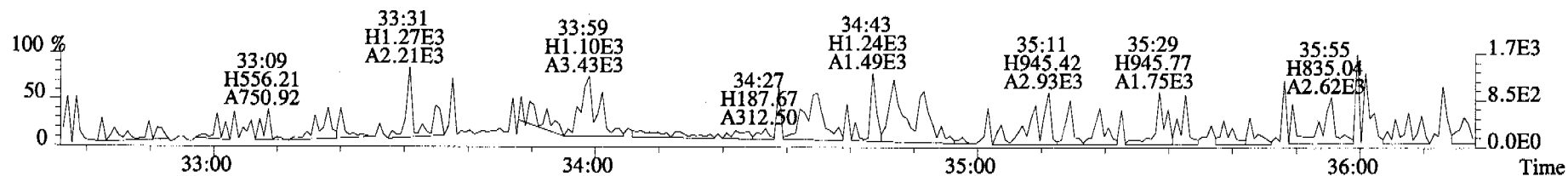
366.9792 S:5 F:2



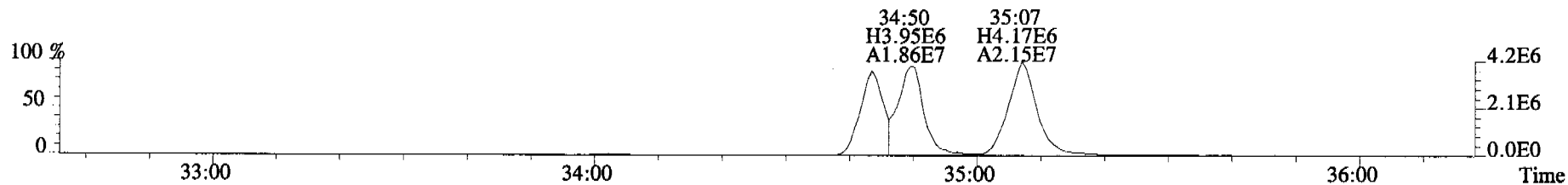
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



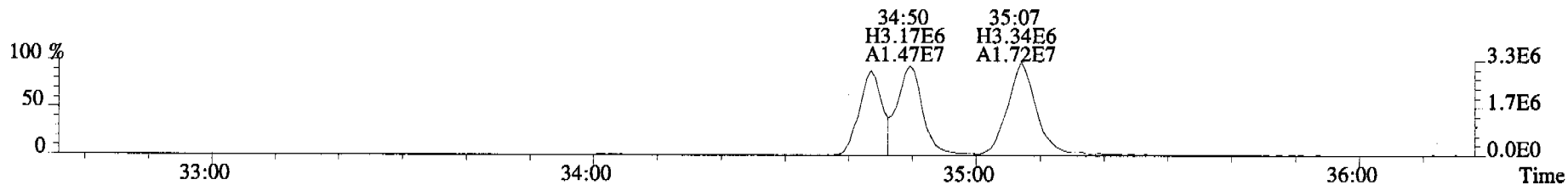
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



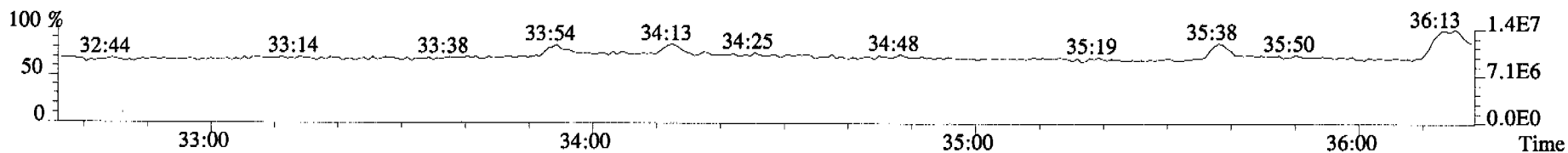
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



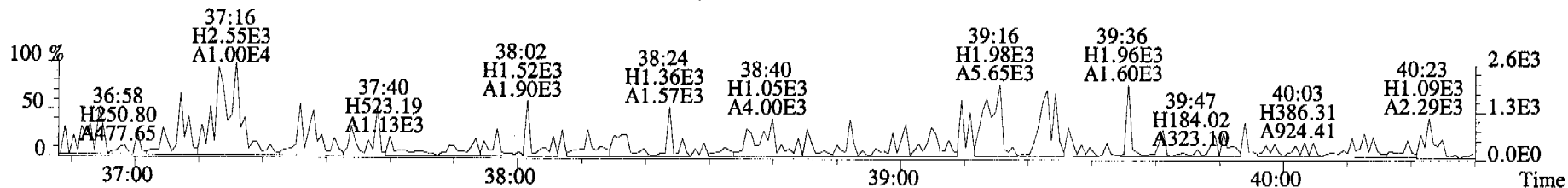
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



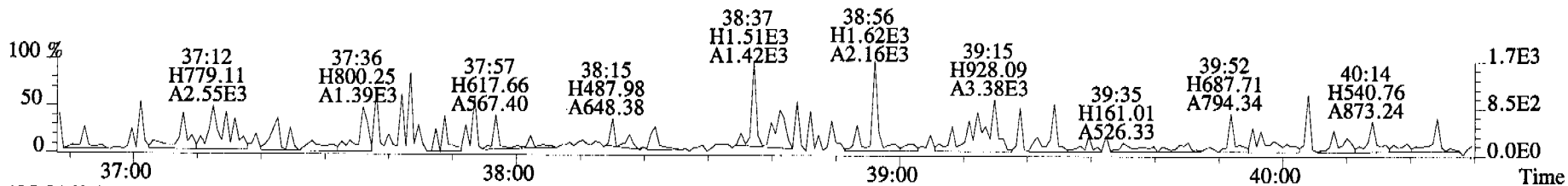
380.9760 S:5 F:3



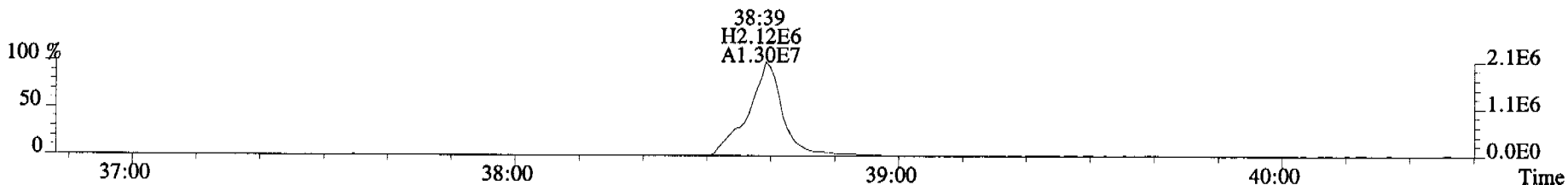
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0_8381_MB001_Exp:OCDD_DB5
423.7767 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



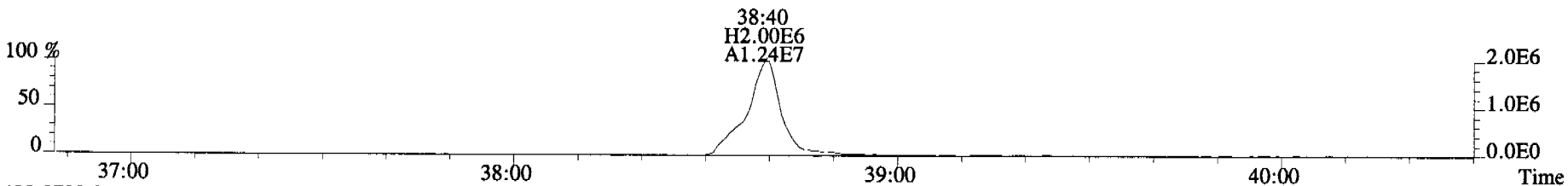
425.7737 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



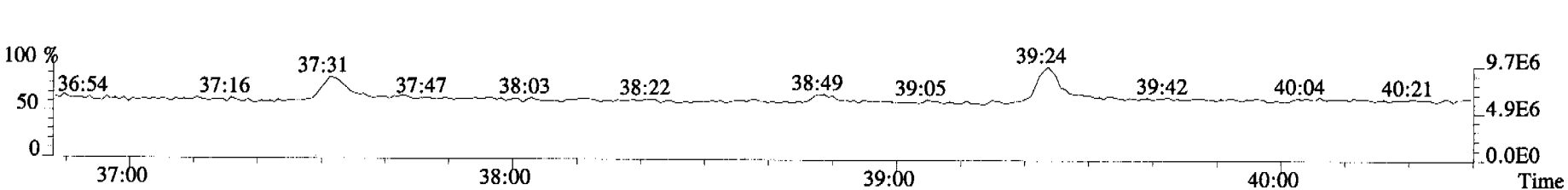
435.8169 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



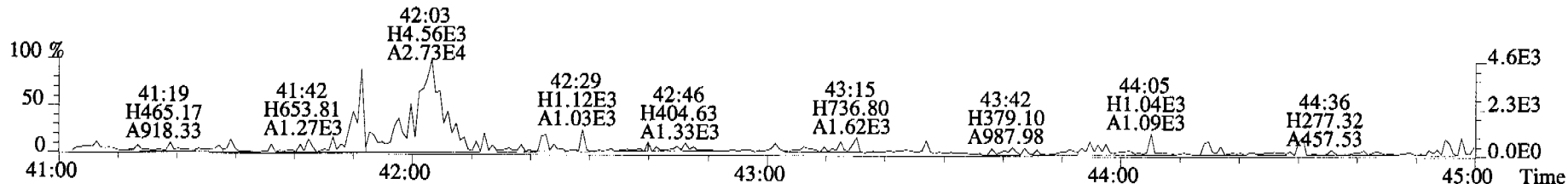
437.8140 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



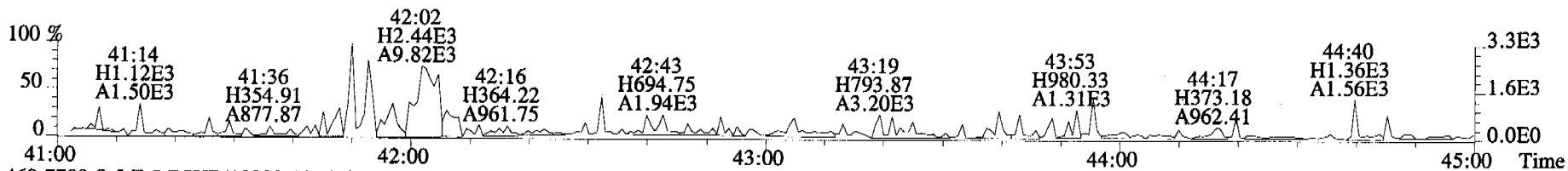
430.9728 S:5 F:4



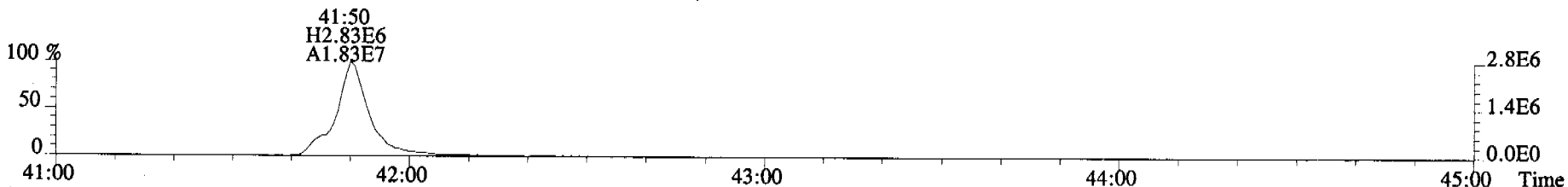
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



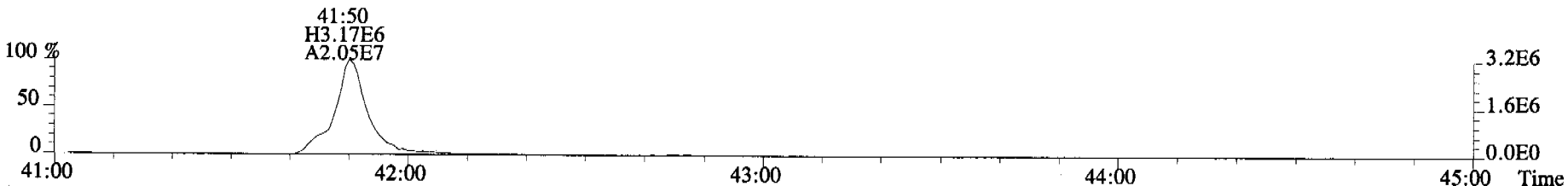
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



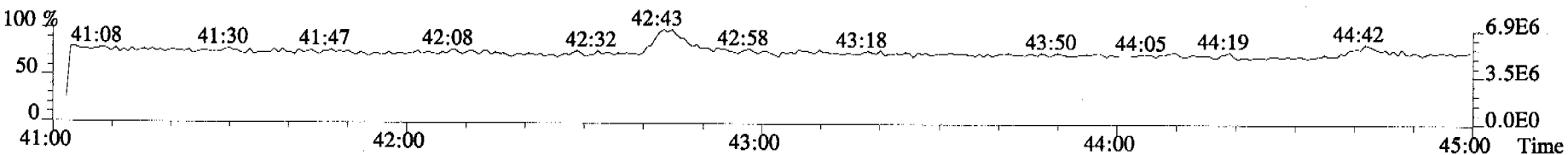
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



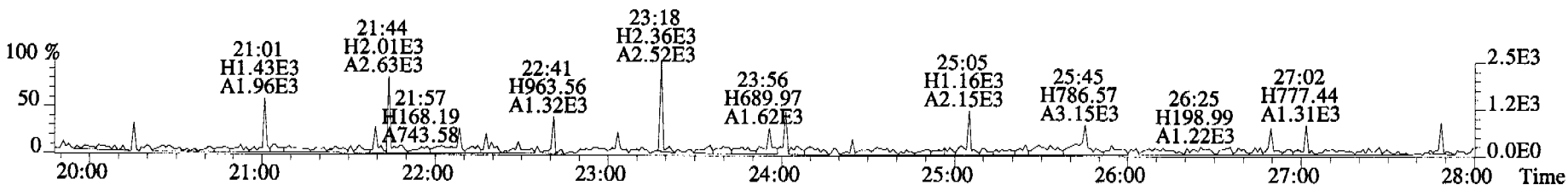
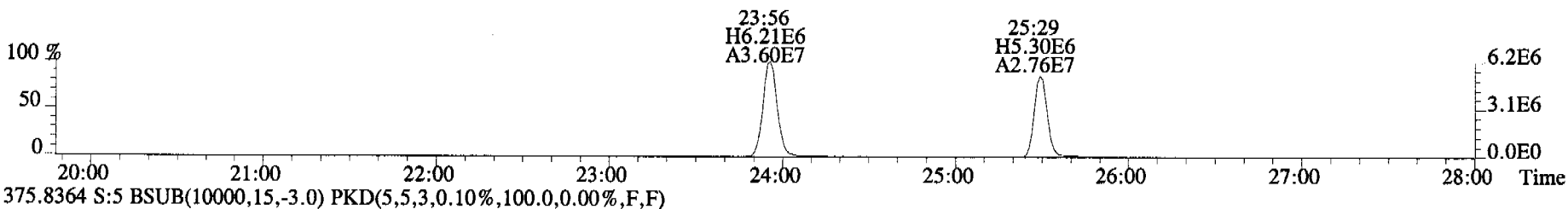
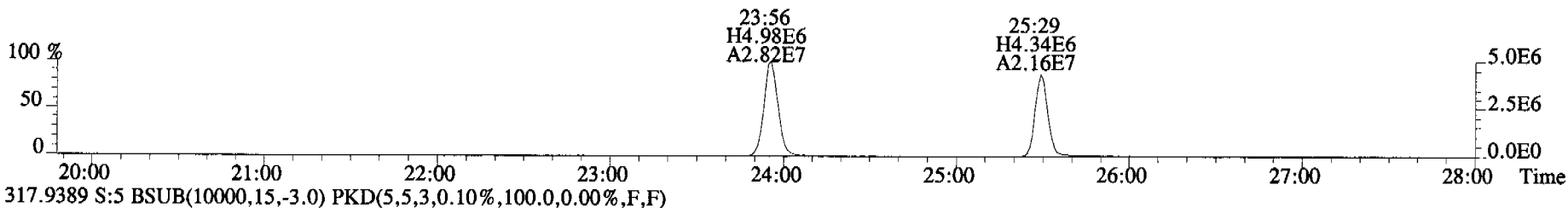
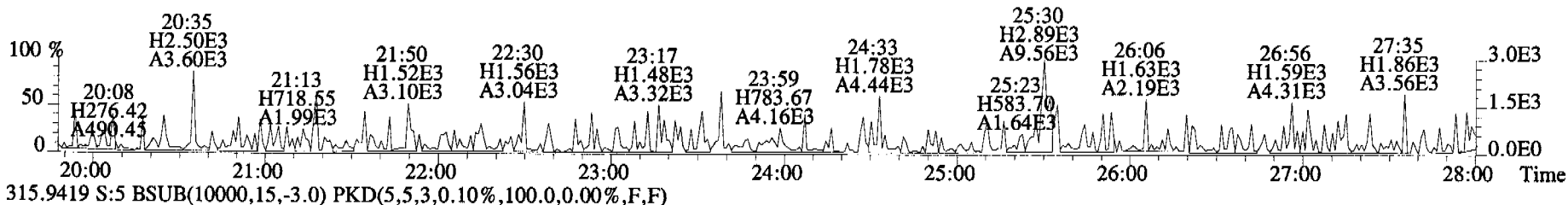
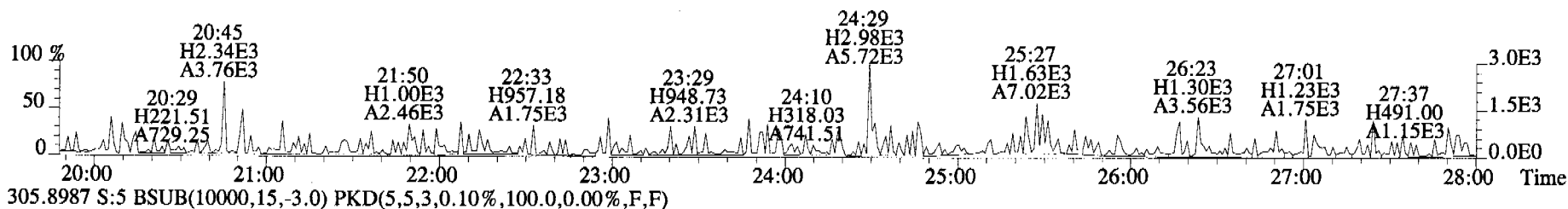
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



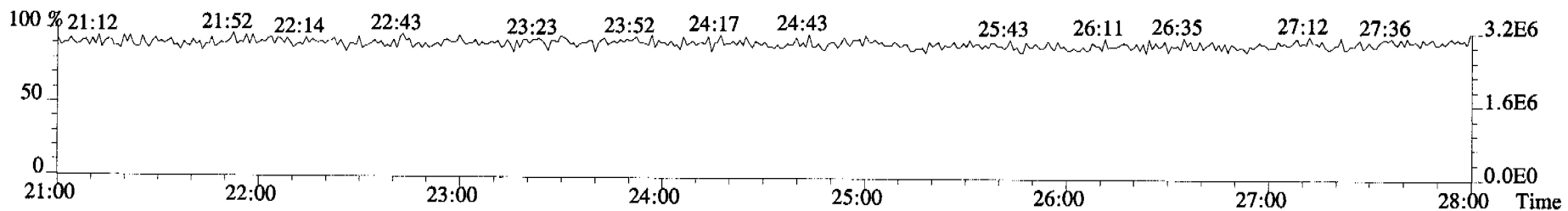
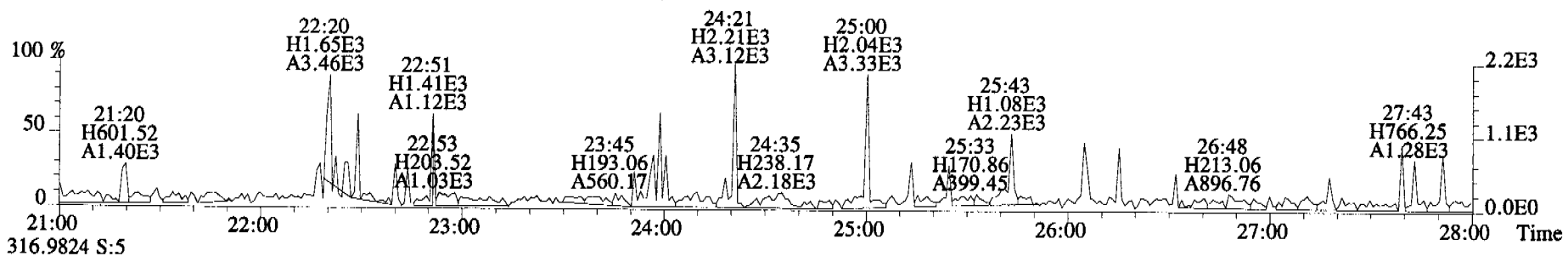
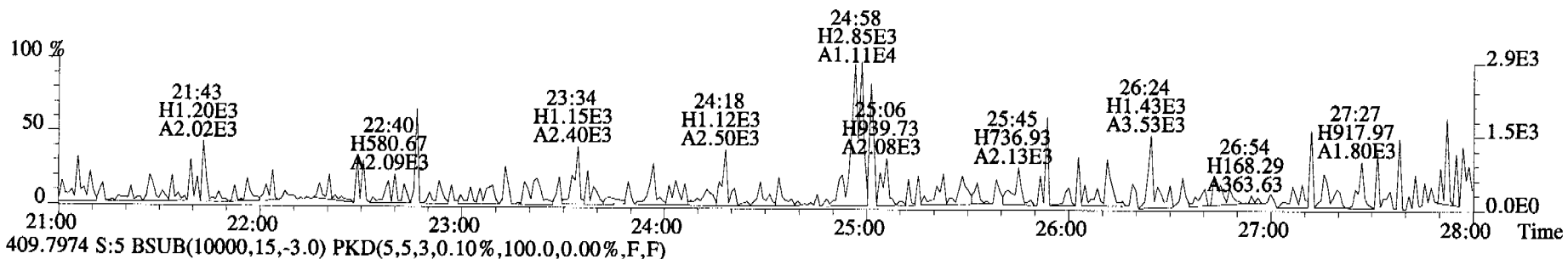
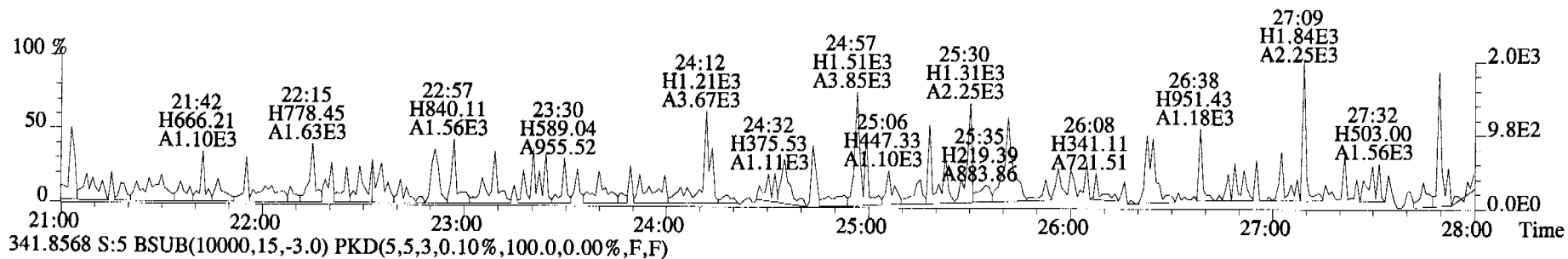
454.9728 S:5 F:5



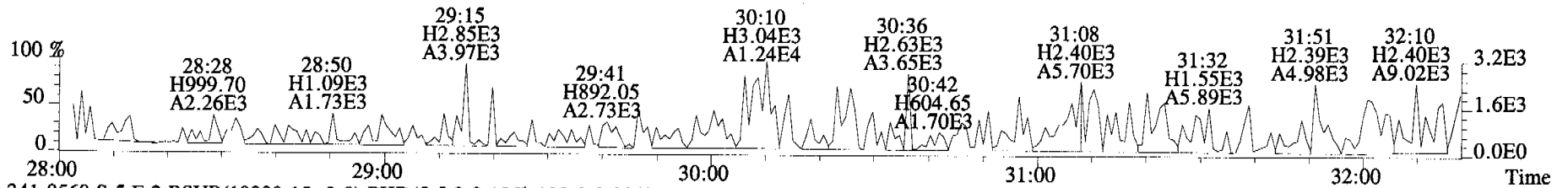
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Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



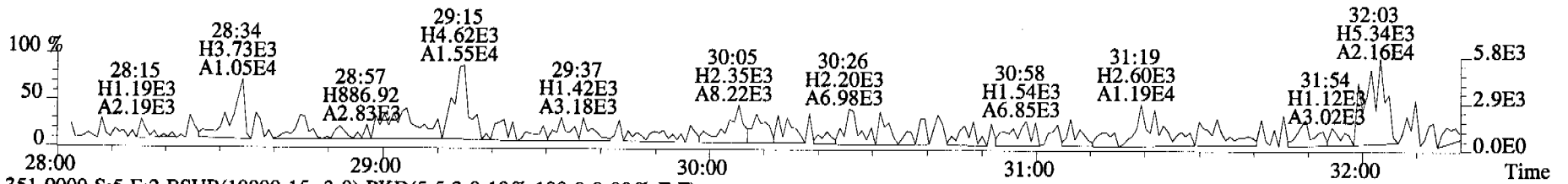
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 Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD_DB5
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



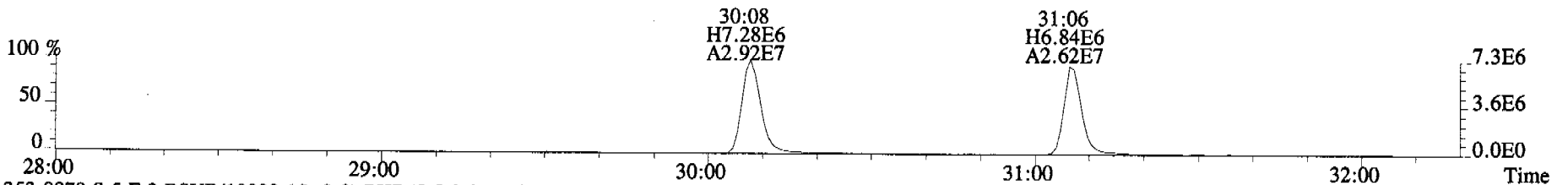
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Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



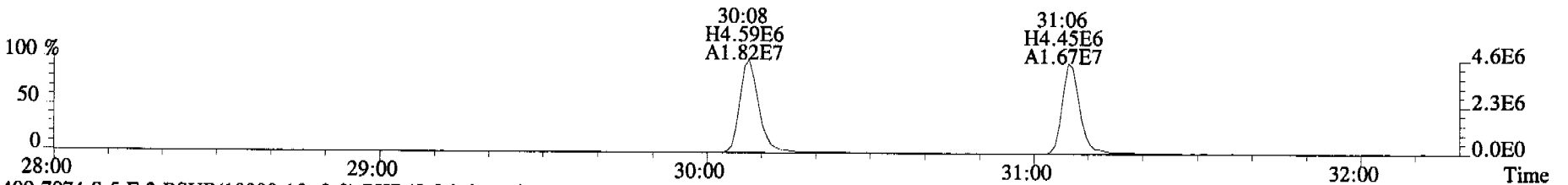
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



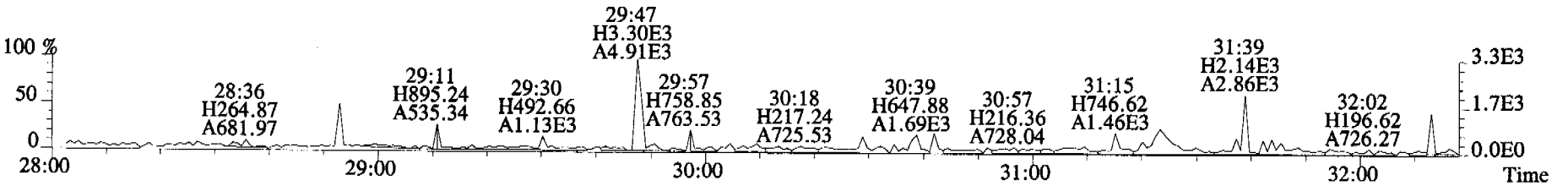
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



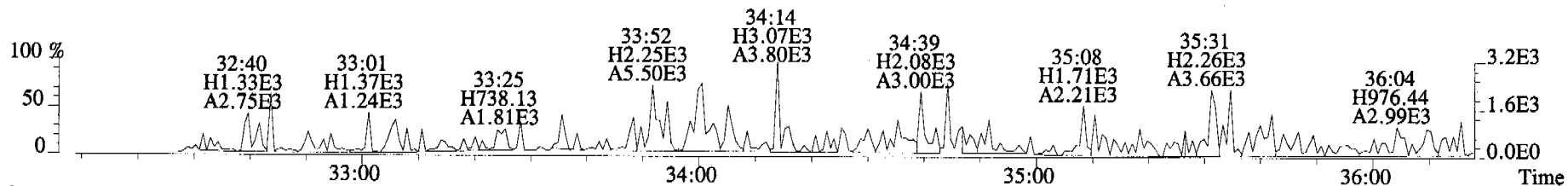
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



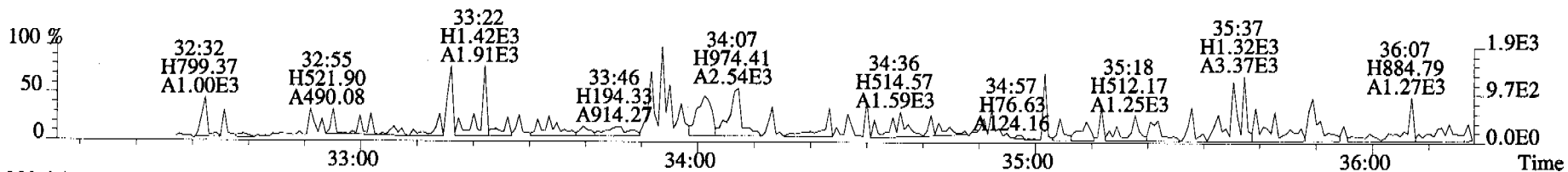
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



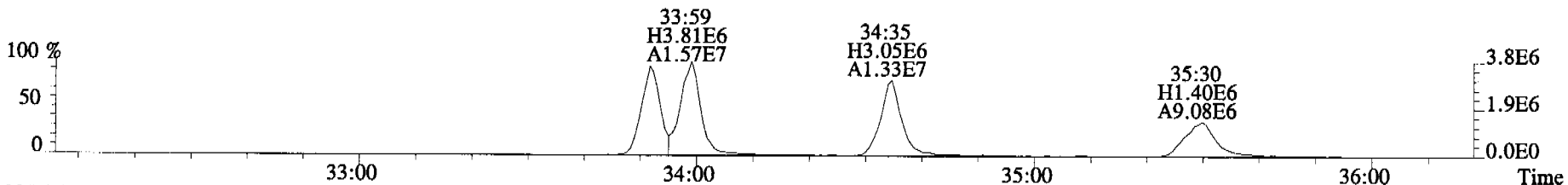
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Sample#5 File Text:Alta Analytical Laboratory Text:0 8381_MB001 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



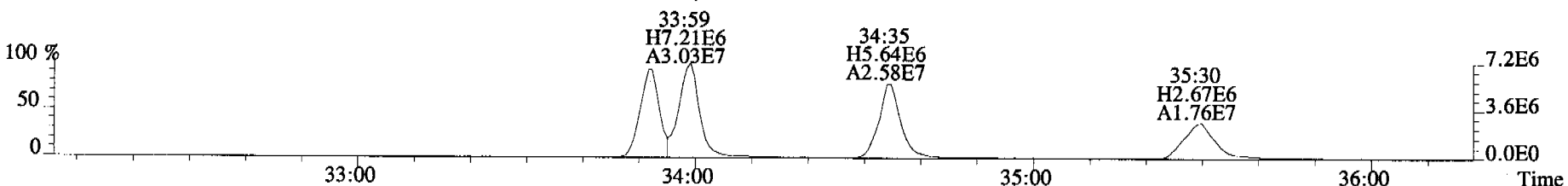
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



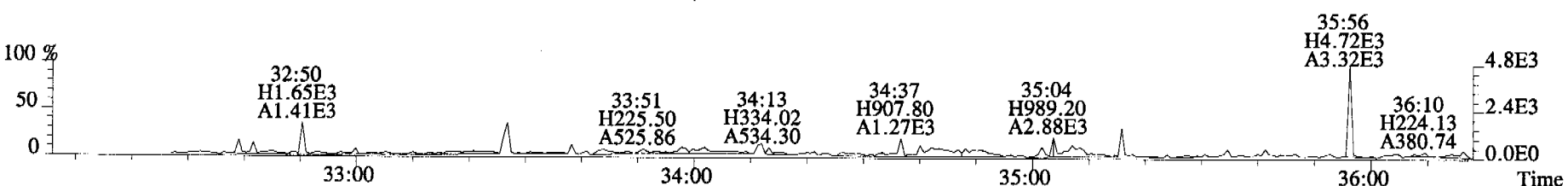
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



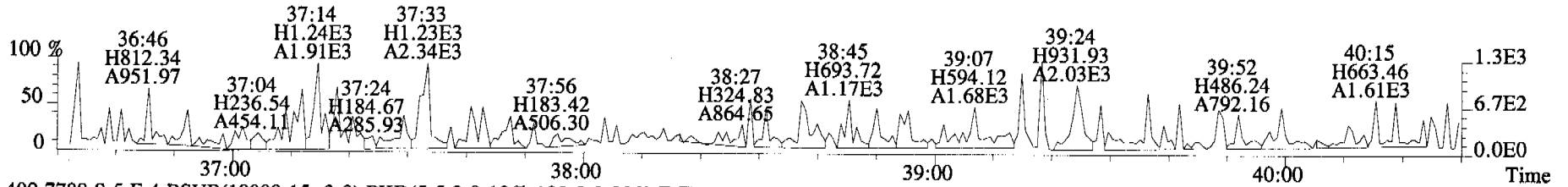
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



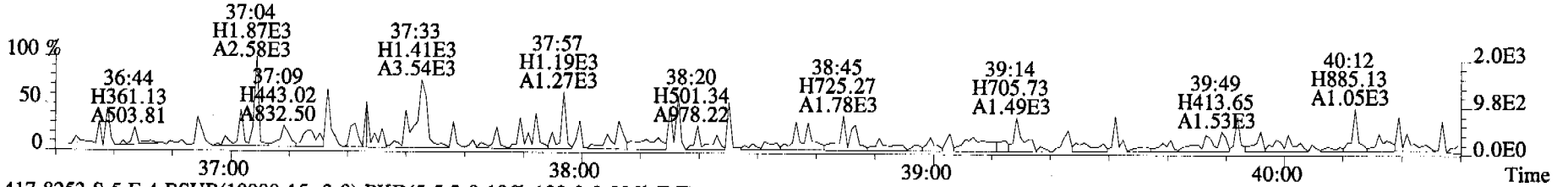
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



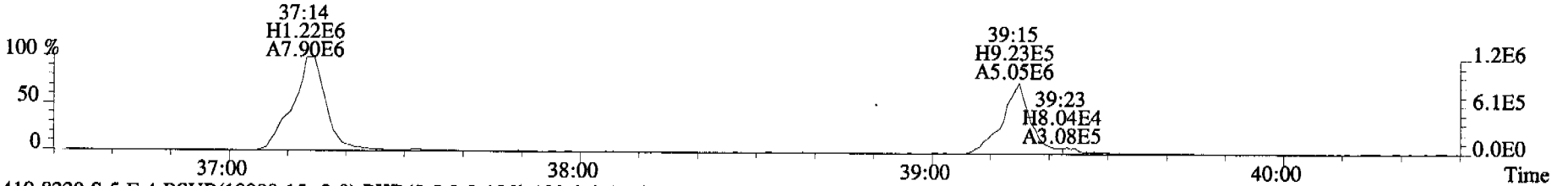
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Sample#5 File Text:Alta Analytical Laboratory Text:0_8381_MB001 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



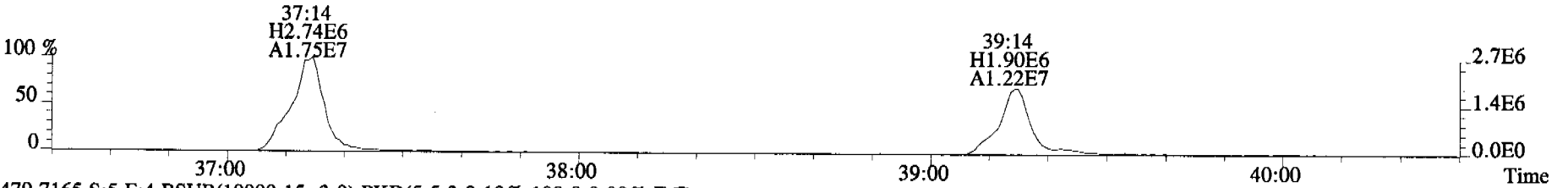
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



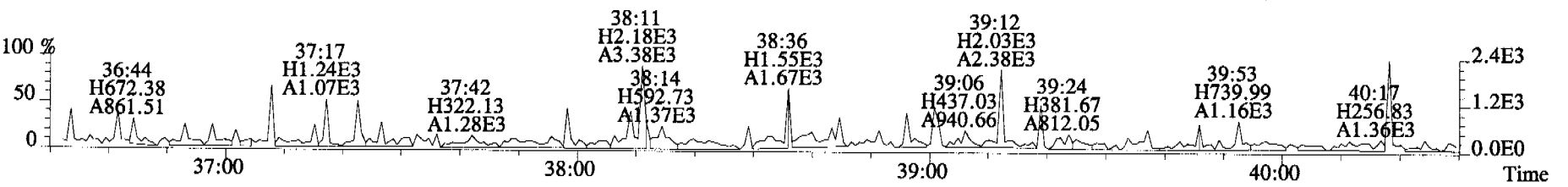
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



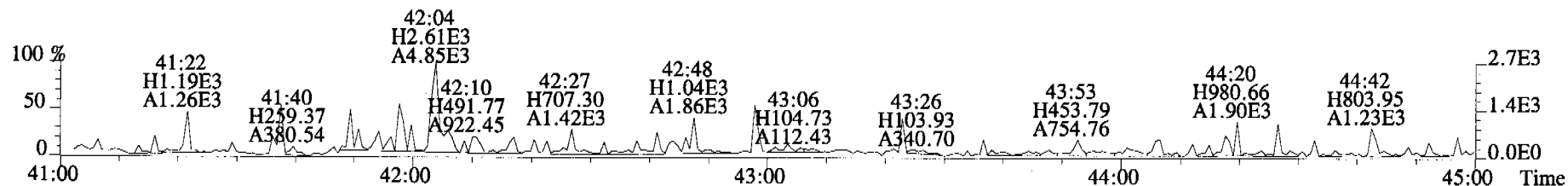
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



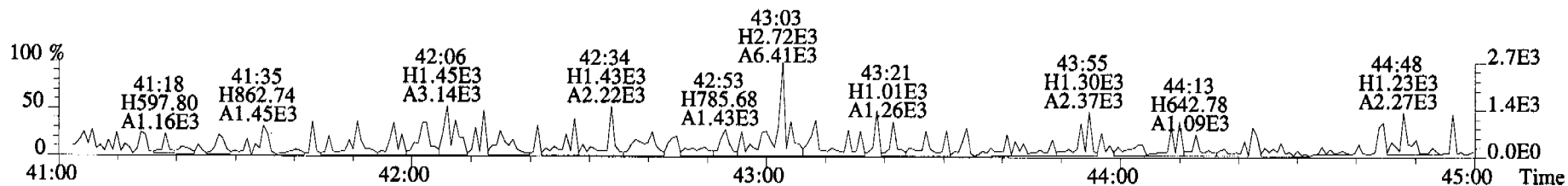
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



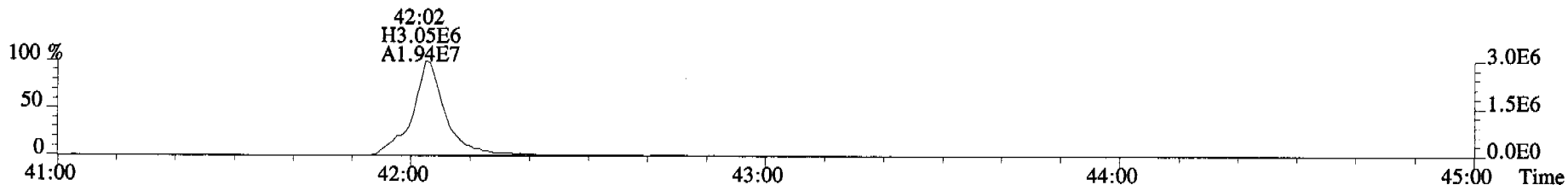
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Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



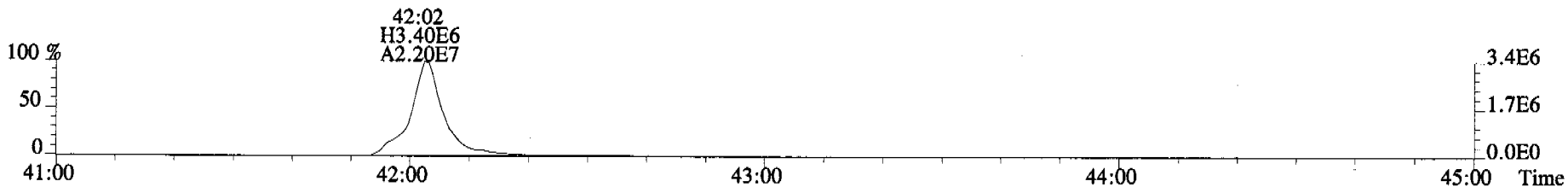
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



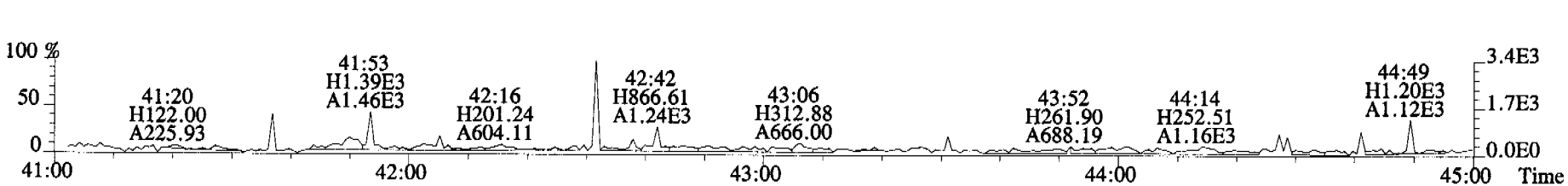
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



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

Lab Name: Alta Analytical Laboratory Extraction Batch: 0_8381_OPR001

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 060920C2-2

Ext. Date: 9/18/06 Shift: Day Analysis Date: 20-SEP-06 Time: 16:04:31

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	9.99	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	46.7	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	48.1	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	47.4	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	51.3	35.0 - 70.0
OCDD	100	99.3	78.0 - 144.0
2,3,7,8-TCDF	10	9.77	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	51.9	40.0 - 67.0
2,3,4,7,8-PeCDF	50	51.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	51.8	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	50.6	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	50.1	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	51.3	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	51.1	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	52.3	39.0 - 69.0
OCDF	100	105	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, for tetras only. 10/94

Analyst: ms

Date: 9/21/06

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Alta Analytical Laboratory Extraction Batch: 0_8381_OPR001

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 060920C2-2

Ext. Date: 9/18/06 Shift: Day Analysis Date: 20-SEP-06 Time: 16:04:31

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	72.8	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	62.1	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	79.6	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	76.6	25.0 - 163.0
13C-1,2,3,4,6,7,8-HpCDD	100	76.9	26.0 - 166.0
13C-OCDD	200	138	26.0 - 397.0
13C-2,3,7,8-TCDF	100	76.1	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	62.3	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	59.0	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	77.8	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	75.4	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	76.0	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	54.3	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	64.1	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	58.8	20.0 - 186.0
13C-OCDF	200	116	26.0 - 397.0
CLEANUP STANDARD			
37C1-2,3,7,8-TCDD	40	32.4	12.4 - 76.4

(1) Contract-required concentration limits for OPR
as specified in Table 6, Method 1613. 10/94(2) Contract-required concentration limits for OPR
as specified in Table 6a, Method 1613. 10/94Analyst: msDate: 9/21/06

Client ID: 0_8381_OPR001
Lab ID: 0_8381_OPR001

Filename: 060920C2 S:2 Acq:20-SEP-06 16:04:31
GC Column ID: db-5 ICal: 1613VG5-3-22-06 wt/vol: 1.000

ConCal: ST060920C2-1
EndCAL: ST060920C2-2

Page 2 of 2

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.52e+06	0.78 y	1.08	26:26	9.9927	*	2.5	*	*	Total Tetra-Dioxins	10.001	10.349	*	*	
1,2,3,7,8-PeCDD	1.33e+07	0.62 y	1.03	31:26	48.498	*	2.5	*	*	Total Penta-Dioxins	48.644	49.132	*	*	
1,2,3,4,7,8-HxCDD	1.43e+07	1.22 y	1.13	34:44	46.743	*	2.5	*	*	Total Hexa-Dioxins	142.66	143.01	*	*	
1,2,3,6,7,8-HxCDD	1.62e+07	1.23 y	1.03	34:50	48.140	*	2.5	*	*	Total Hepta-Dioxins	51.411	52.035	*	*	
1,2,3,7,8,9-HxCDD	1.58e+07	1.24 y	1.12	35:08	47.374	*	2.5	*	*	Total Tetra-Furans	10.181	10.615	*	*	
1,2,3,4,6,7,8-HpCDD	1.39e+07	1.06 y	1.02	38:40	51.285	*	2.5	*	*	Total Penta-Furans	106.01	106.64	*	*	
OCDD	2.11e+07	0.89 y	1.06	41:52	99.315	*	2.5	*	*	Total Hexa-Furans	204.44	204.94	*	*	
										Total Hepta-Furans	104.53	105.79	*	*	
2,3,7,8-TCDF	4.57e+06	0.76 y	1.06	25:31	9.7742	*	2.5	*	*						
1,2,3,7,8-PeCDF	2.00e+07	1.57 y	1.01	30:09	51.947	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.93e+07	1.56 y	1.02	31:08	51.804	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	2.16e+07	1.21 y	1.15	33:53	51.772	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	2.49e+07	1.22 y	1.14	34:00	50.622	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	2.30e+07	1.20 y	1.17	34:36	50.117	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.35e+07	1.23 y	1.10	35:31	51.264	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.65e+07	1.04 y	1.31	37:15	51.138	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.28e+07	0.97 y	1.33	39:15	52.275	*	2.5	*	*						
OCDF	2.16e+07	0.90 y	0.91	42:04	105.47	*	2.5	*	*						

Rec Qual

IS	13C-2,3,7,8-TCDD	3.26e+07	0.80 y	1.09	26:24	72.759	72.8	
IS	13C-1,2,3,7,8-PeCDD	2.66e+07	0.63 y	1.04	31:24	62.107	62.1	
IS	13C-1,2,3,4,7,8-HxCDD	2.70e+07	1.25 y	0.83	34:43	79.643	79.6	
IS	13C-1,2,3,6,7,8-HxCDD	3.26e+07	1.26 y	1.04	34:50	76.607	76.6	
IS	13C-1,2,3,4,6,7,8-HpCDD	2.68e+07	1.07 y	0.85	38:39	76.932	76.9	
IS	13C-OCDD	4.02e+07	0.90 y	0.71	41:51	137.77	68.9	
IS	13C-2,3,7,8-TCDF	4.40e+07	0.78 y	0.96	25:30	76.116	76.1	
IS	13C-1,2,3,7,8-PeCDF	3.83e+07	1.56 y	1.02	30:08	62.340	62.3	
IS	13C-2,3,4,7,8-PeCDF	3.63e+07	1.61 y	1.02	31:07	59.009	59.0	
IS	13C-1,2,3,4,7,8-HxCDF	3.64e+07	0.52 y	1.14	33:52	77.805	77.8	
IS	13C-1,2,3,6,7,8-HxCDF	4.32e+07	0.51 y	1.40	33:59	75.439	75.4	
IS	13C-2,3,4,6,7,8-HxCDF	3.92e+07	0.52 y	1.26	34:35	75.954	76.0	
IS	13C-1,2,3,7,8,9-HxCDF	2.41e+07	0.53 y	1.08	35:30	54.340	54.3	
IS	13C-1,2,3,4,6,7,8-HpCDF	2.45e+07	0.46 y	0.93	37:14	64.142	64.1	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.84e+07	0.46 y	0.77	39:14	58.769	58.8	
IS	13C-OCDF	4.49e+07	0.90 y	0.94	42:03	116.28	58.1	
C/Up	37C1-2,3,7,8-TCDD	1.03e+07		0.77	26:26	32.425	81.1	

Integrations

Reviewed

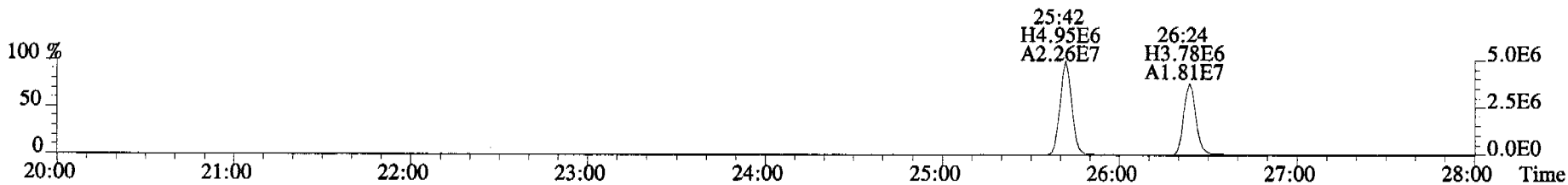
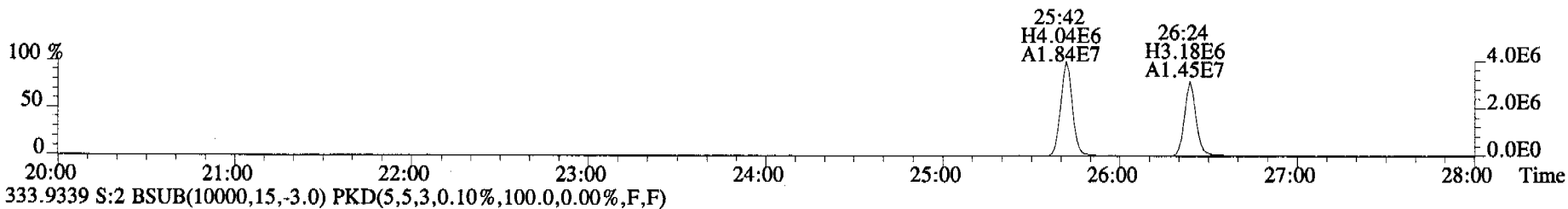
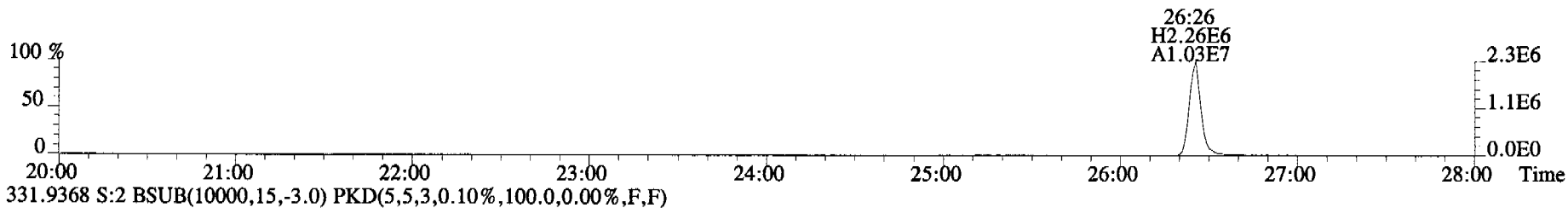
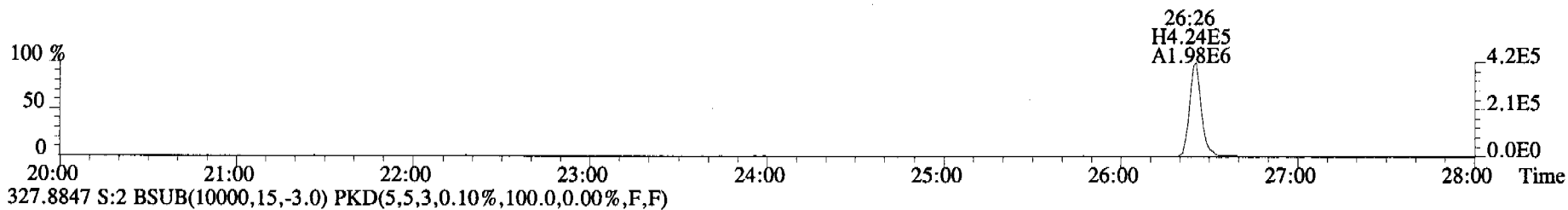
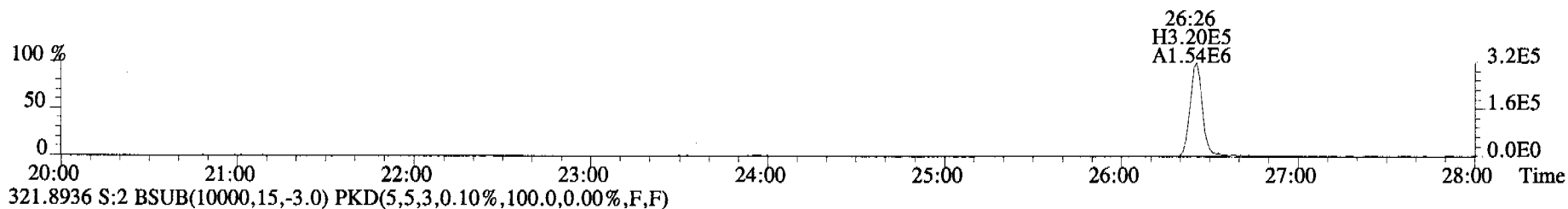
by
Analyst: ms

by
Analyst: llh

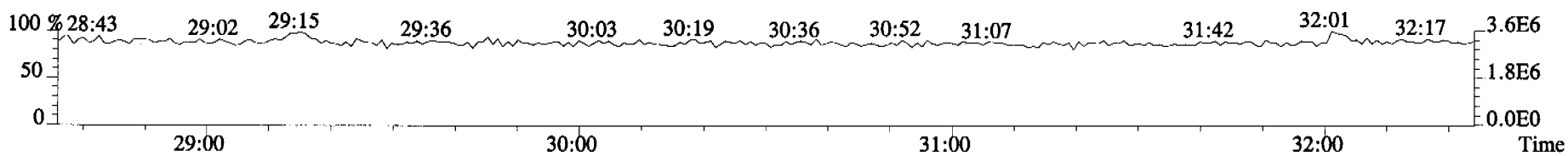
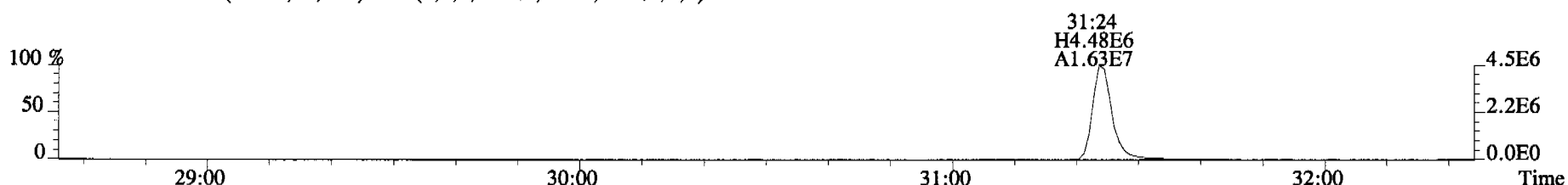
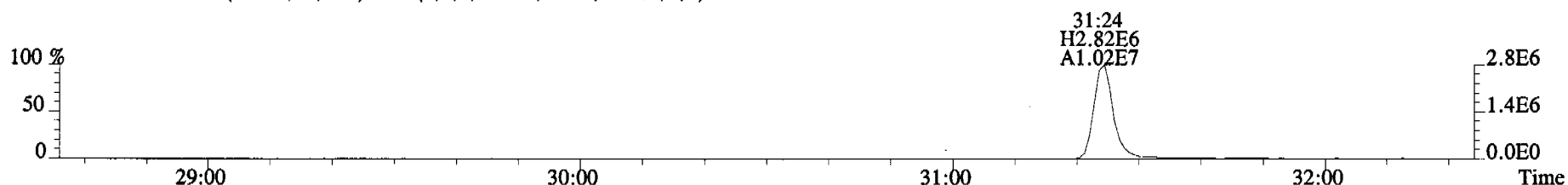
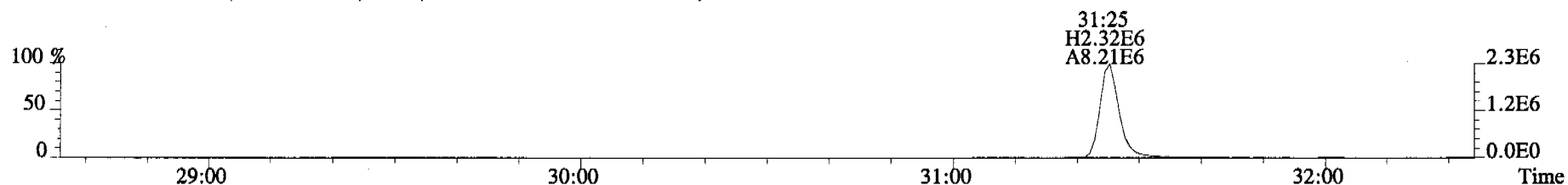
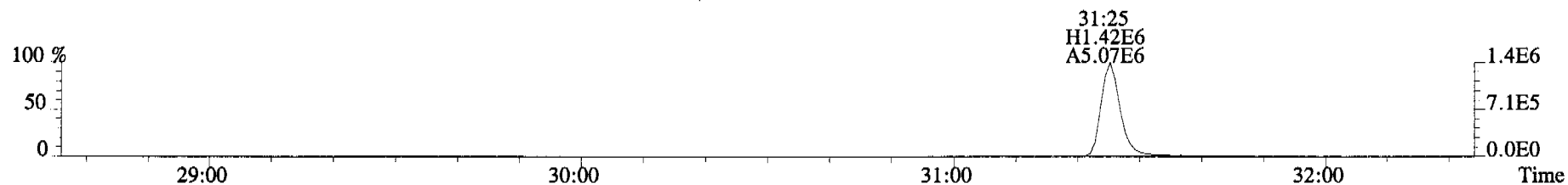
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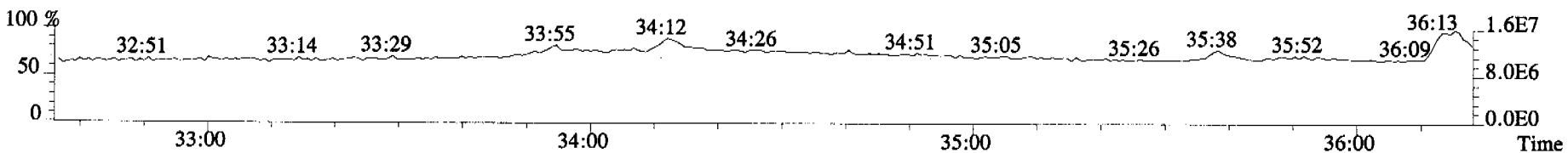
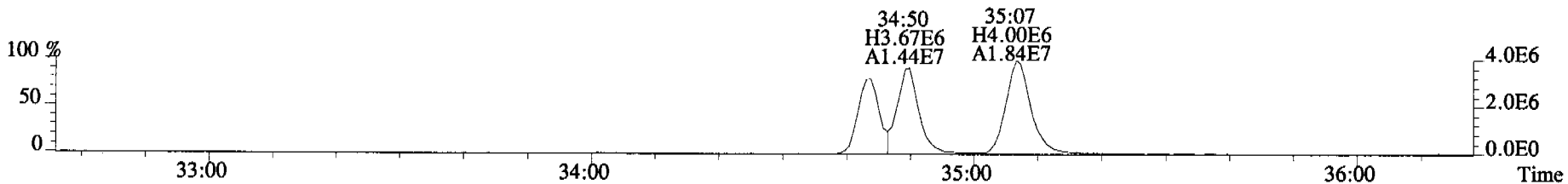
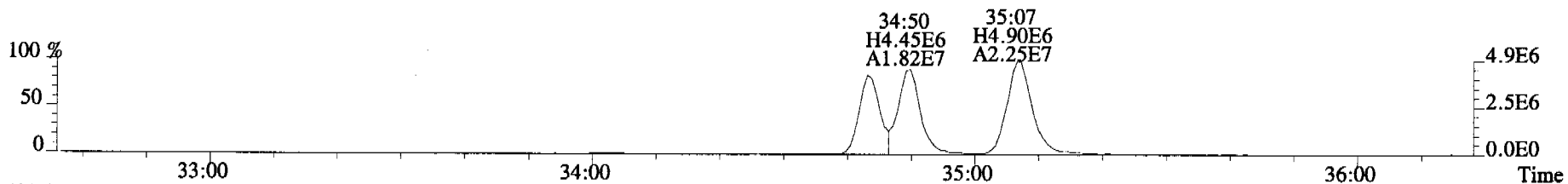
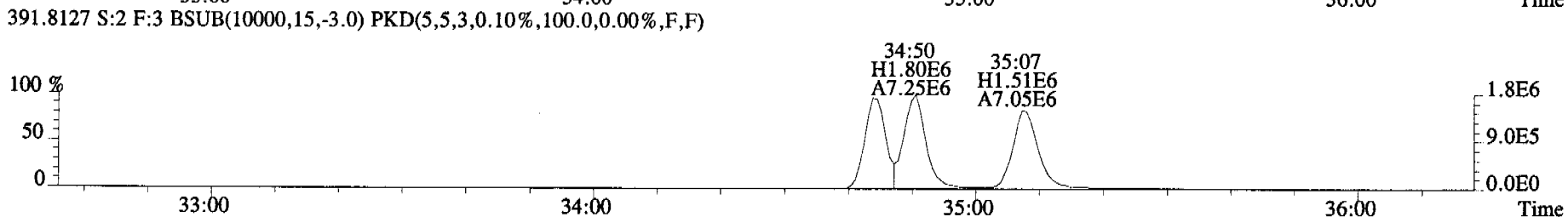
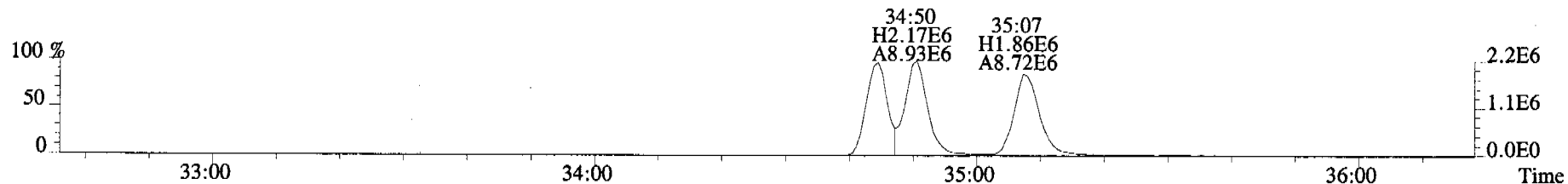
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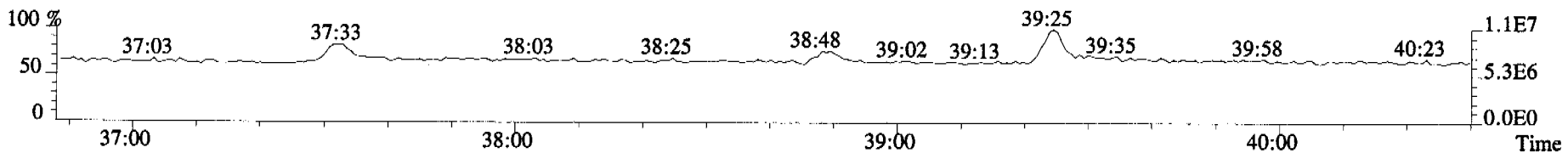
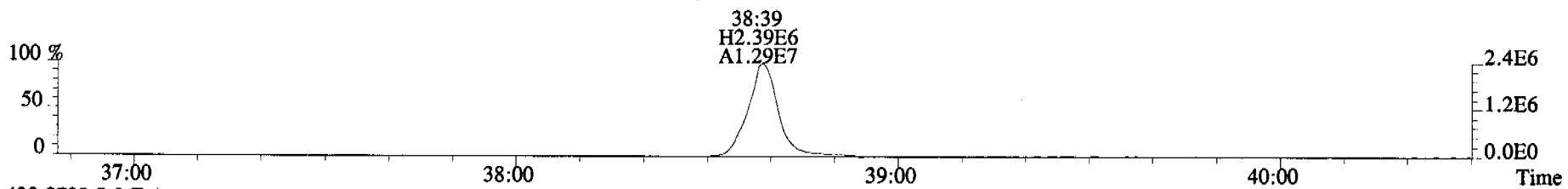
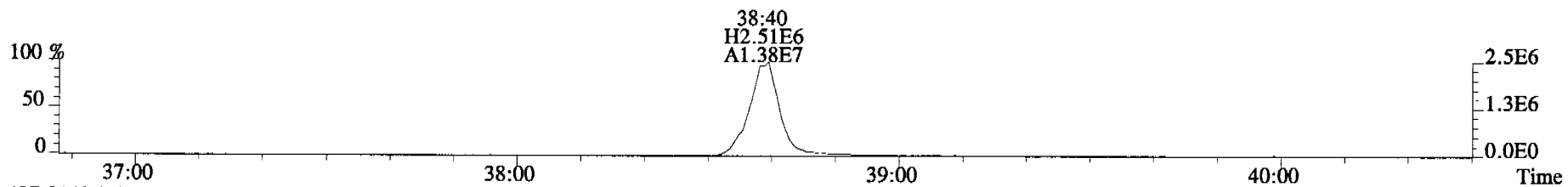
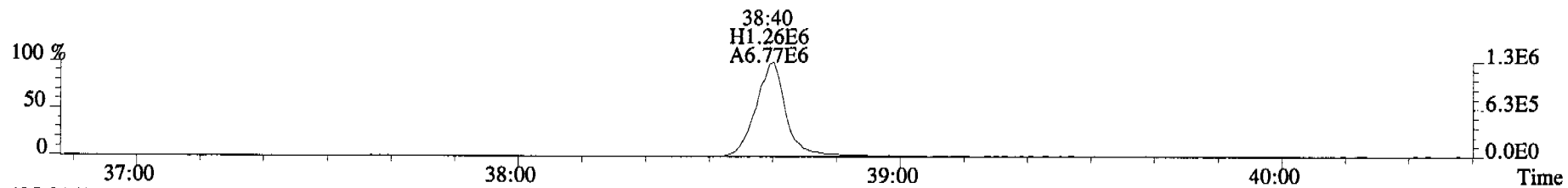
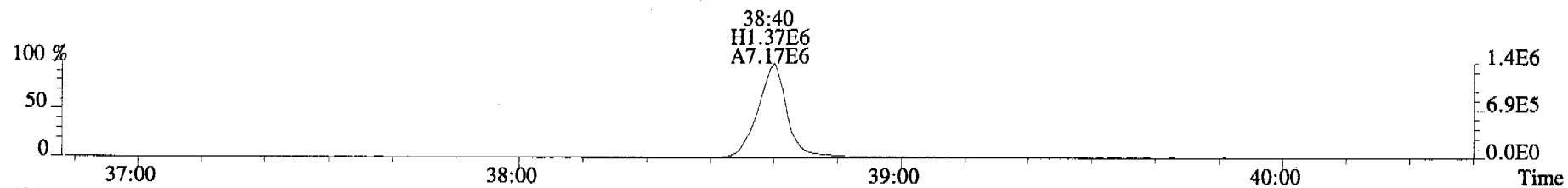
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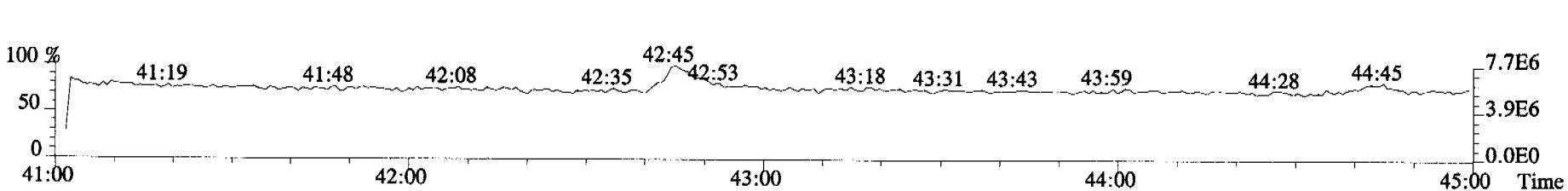
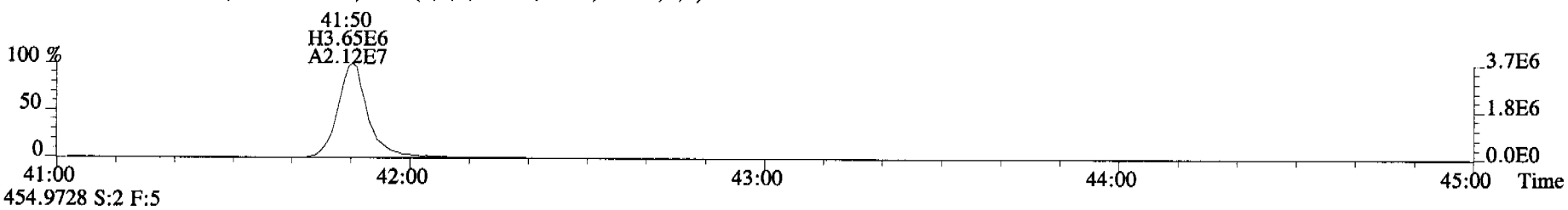
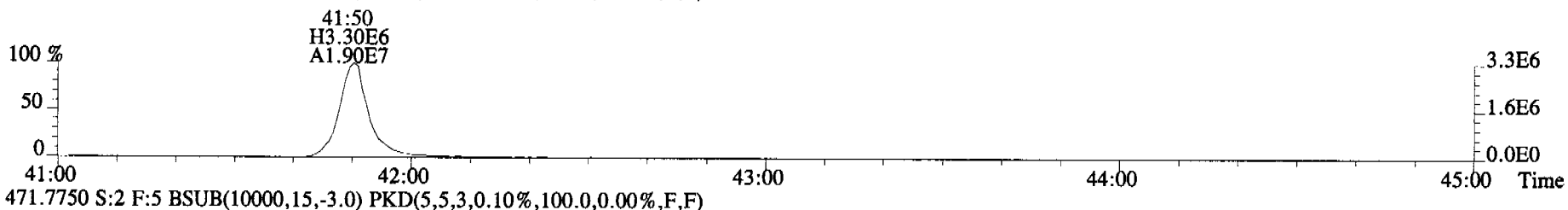
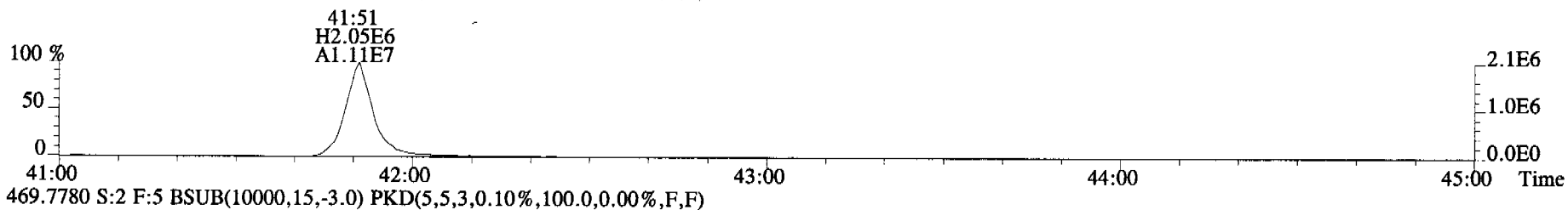
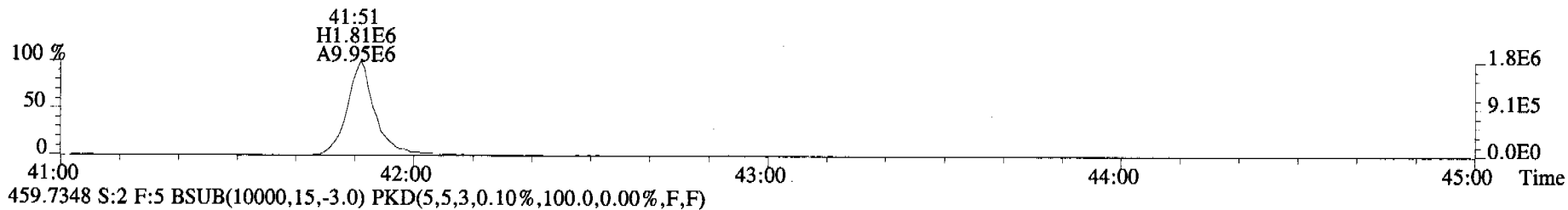
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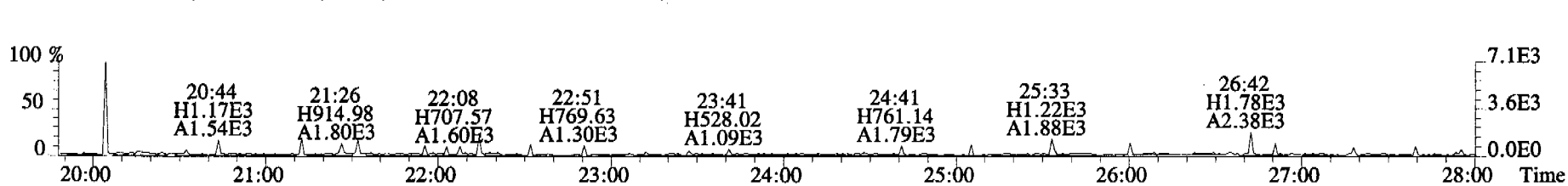
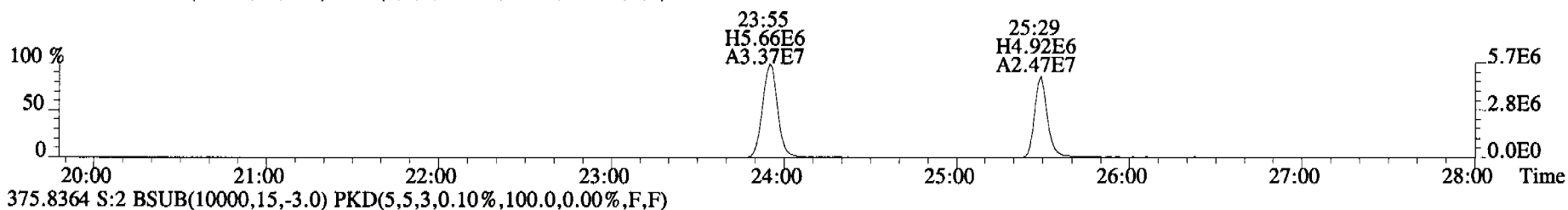
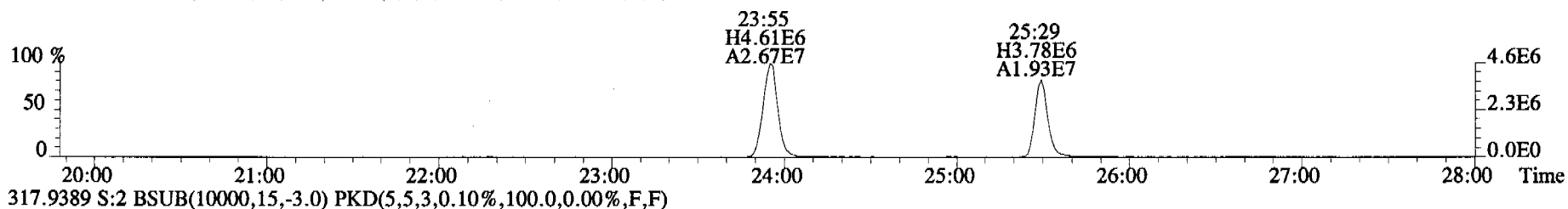
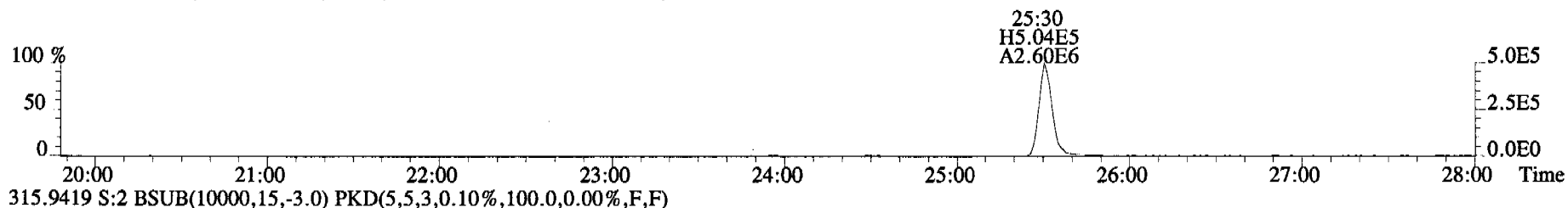
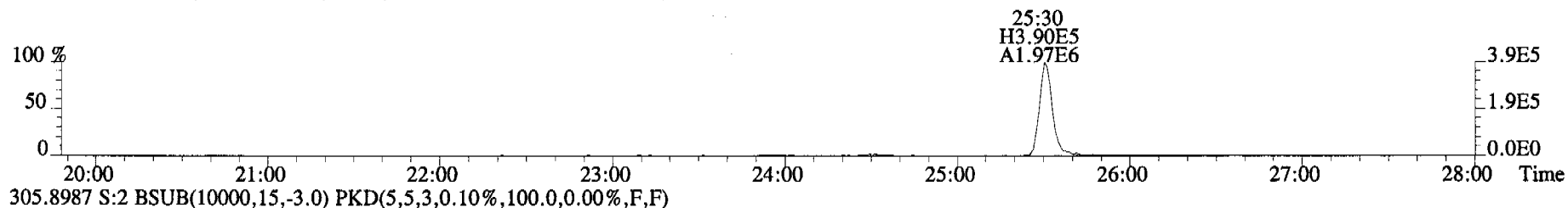
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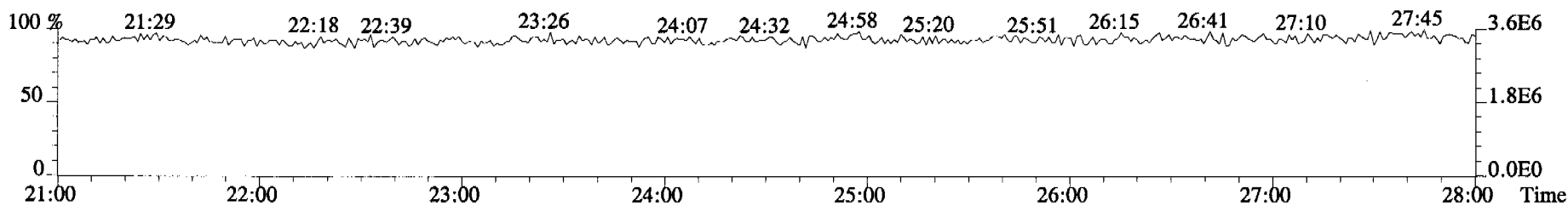
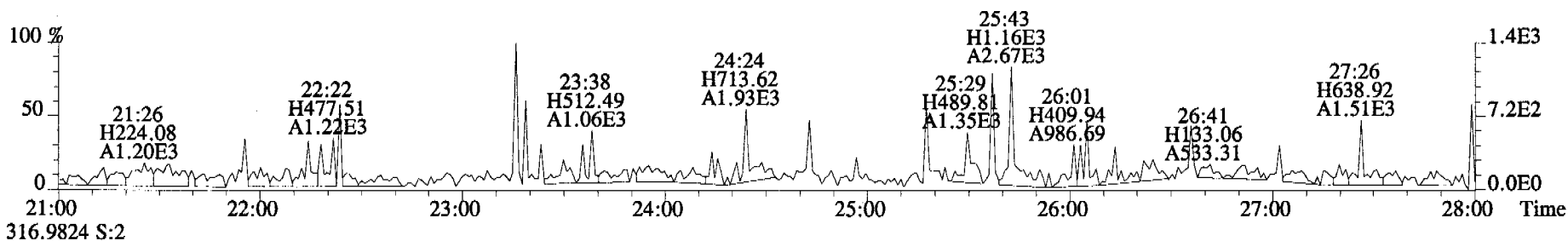
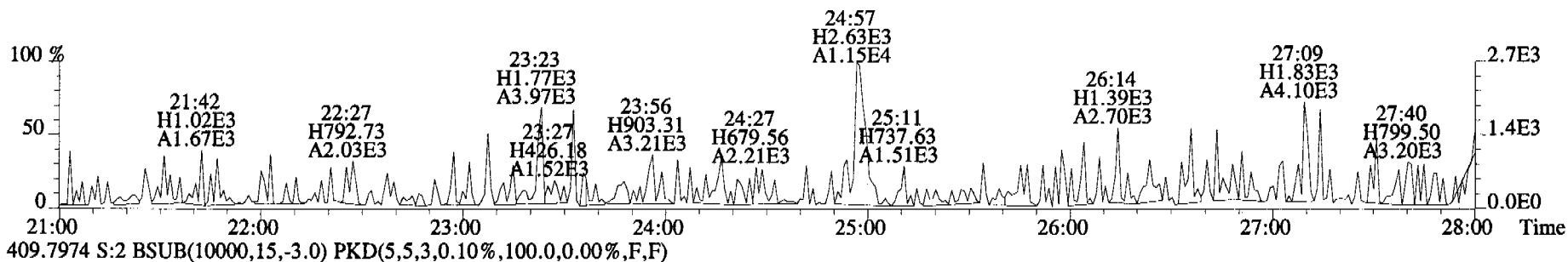
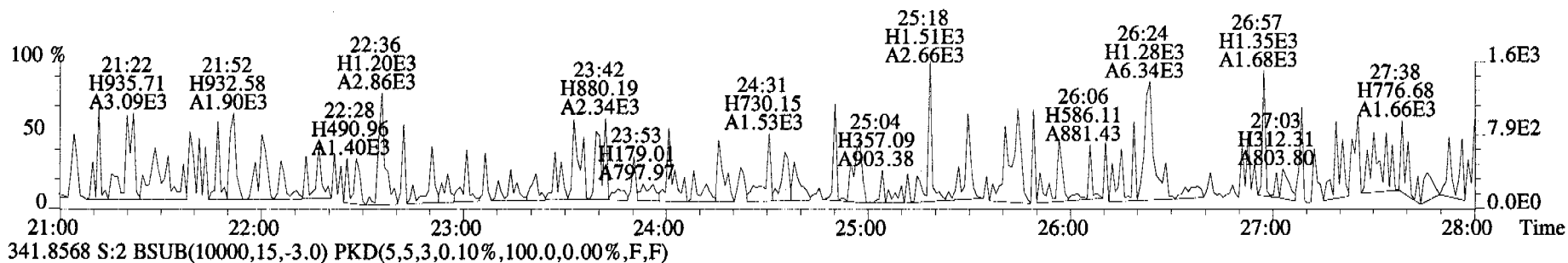
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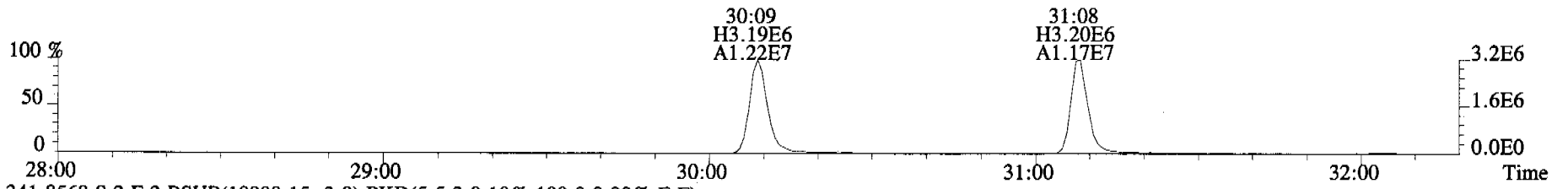
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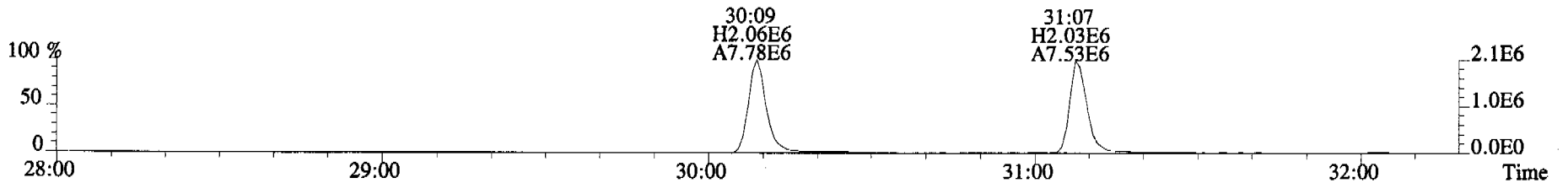
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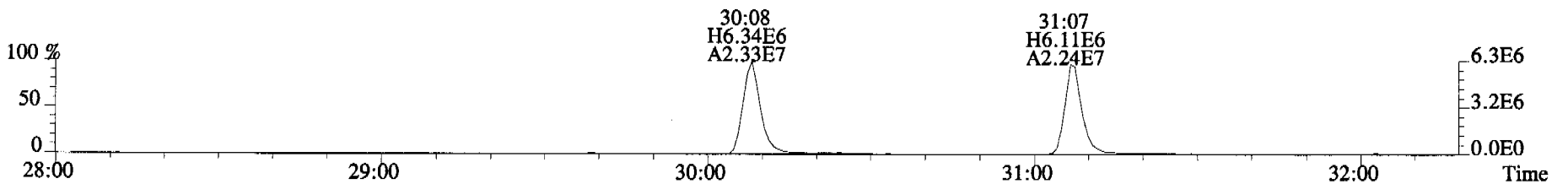
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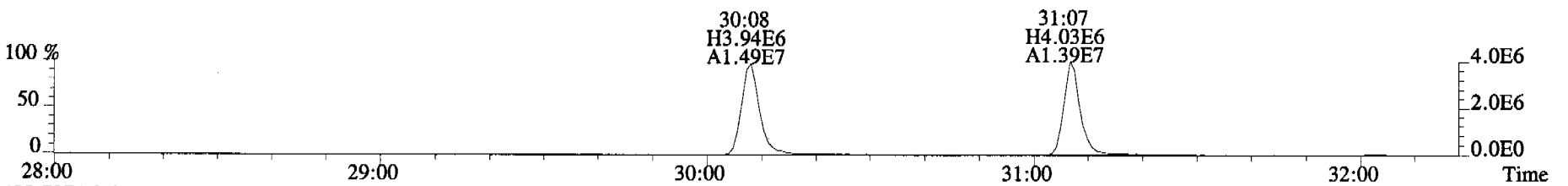
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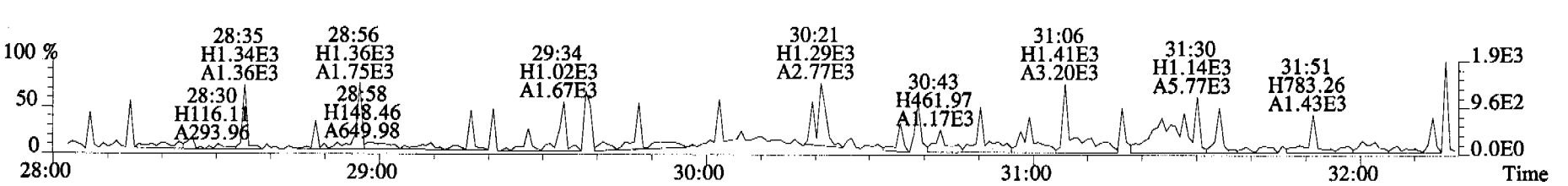
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



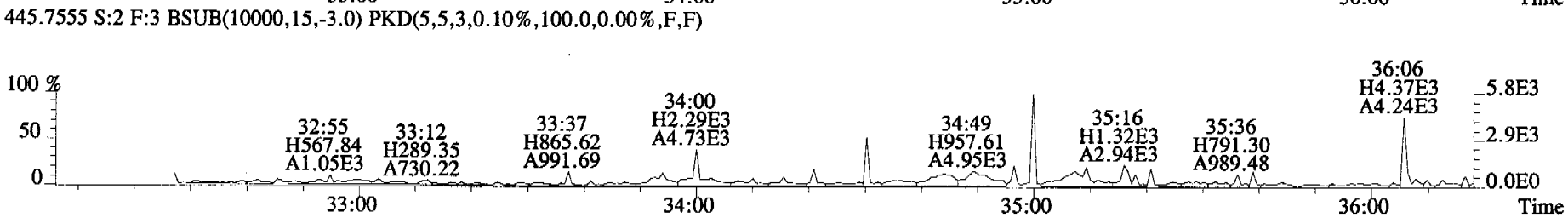
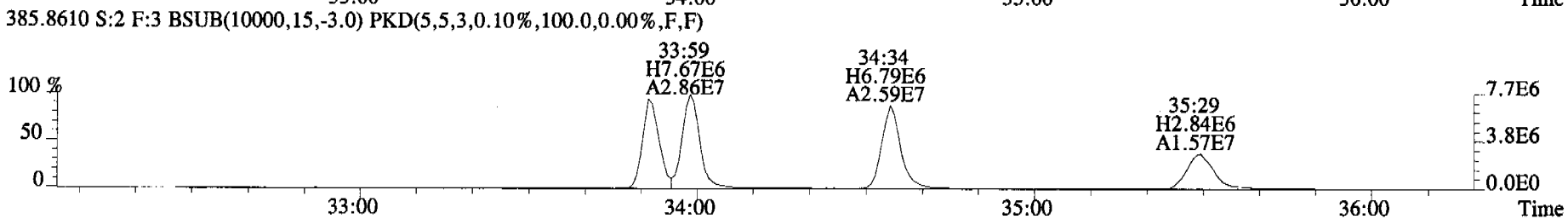
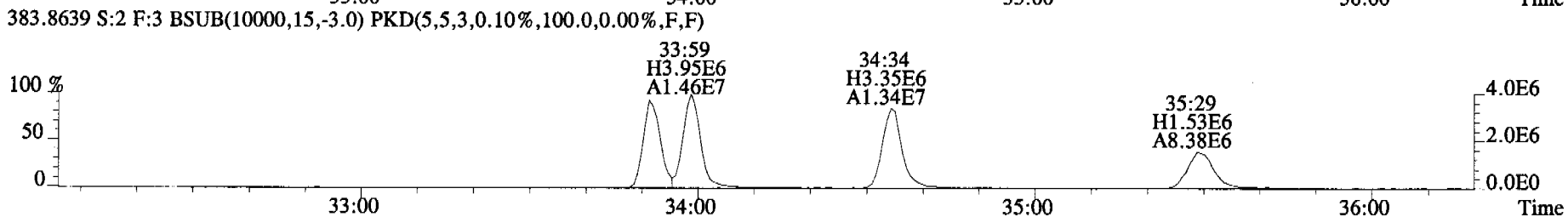
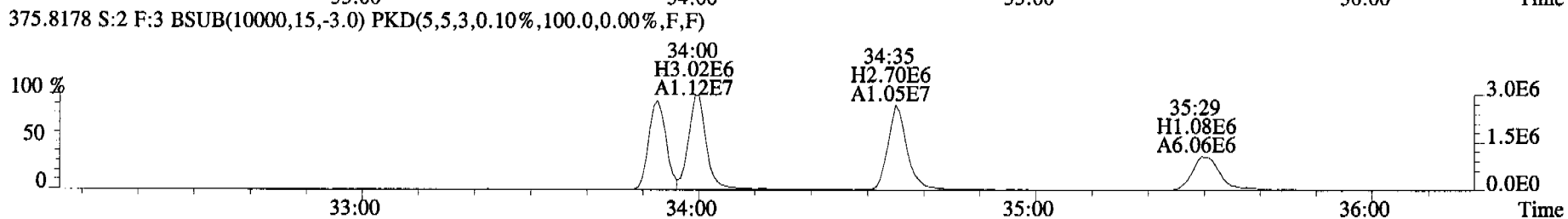
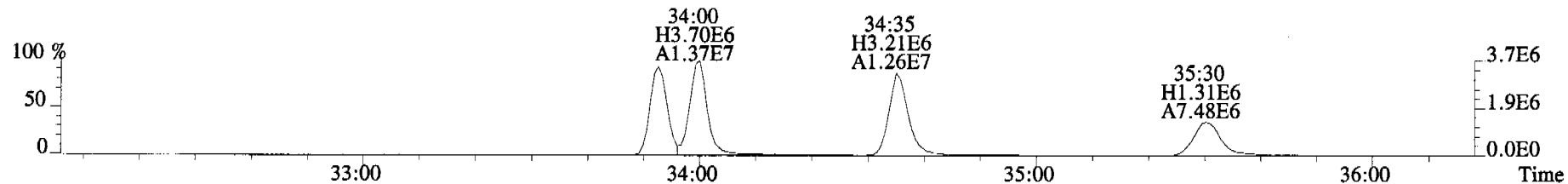
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



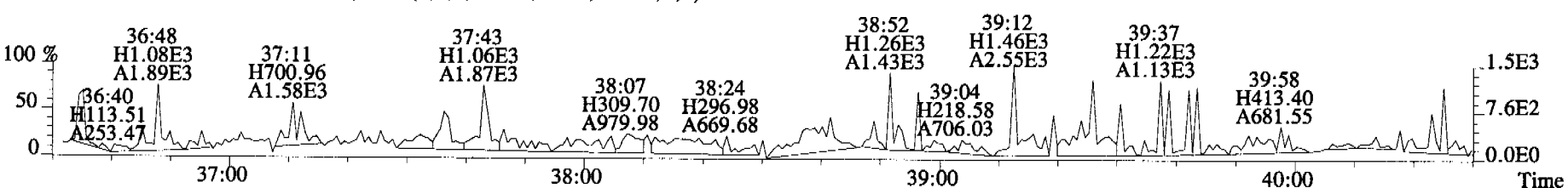
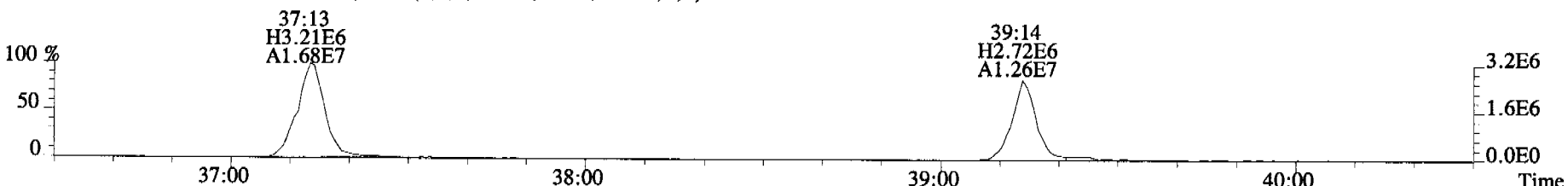
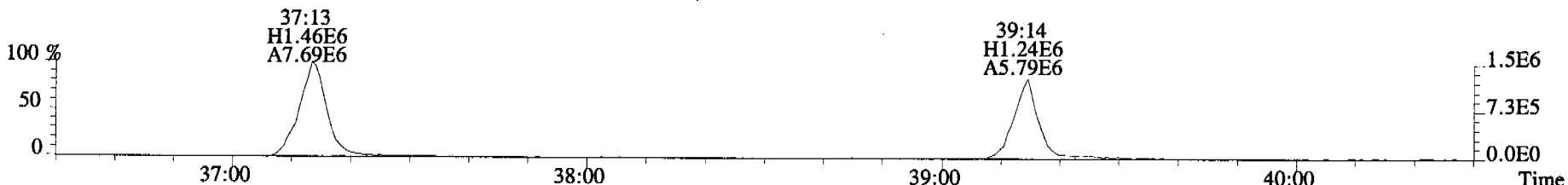
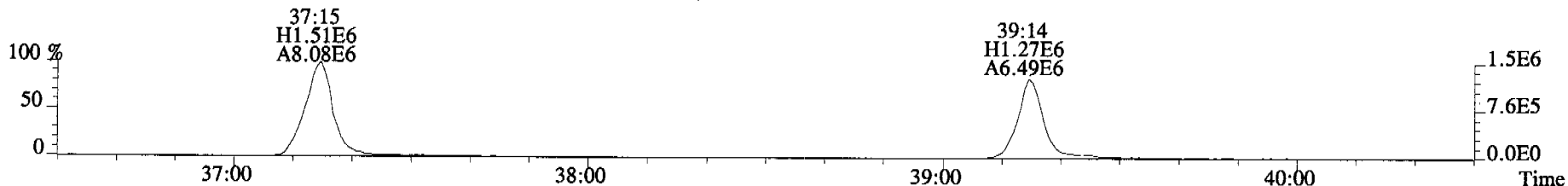
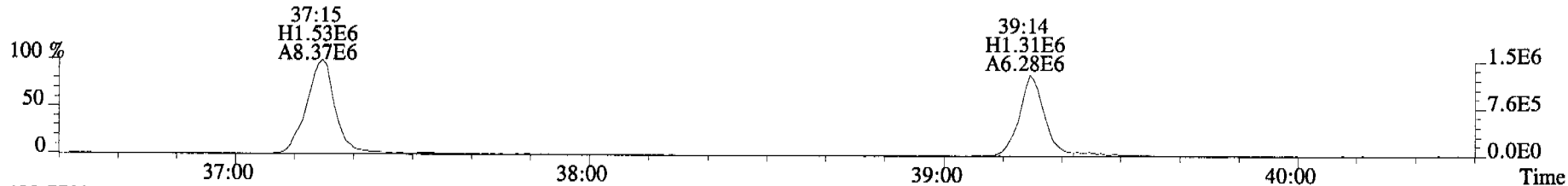
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



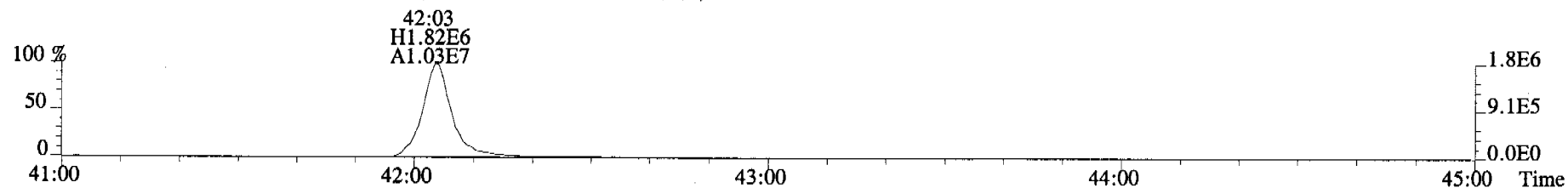
File:060920C2 #1-362 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381_OPR001 Exp:OCDD_DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



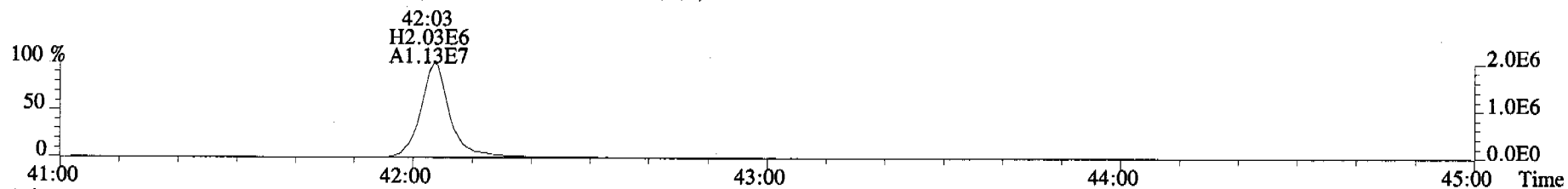
File:060920C2 #1-400 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381_OPR001 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



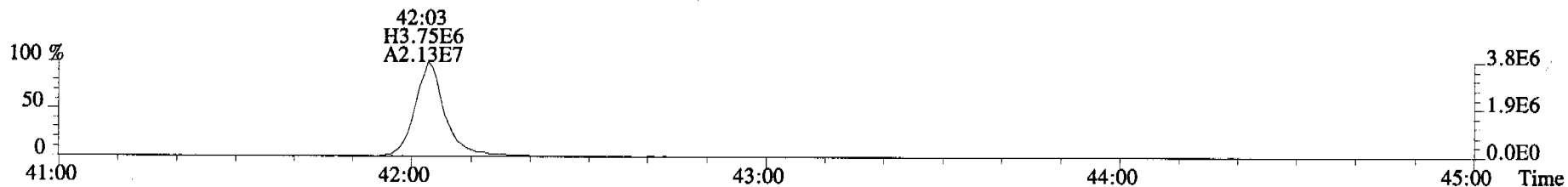
File:060920C2 #1-345 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



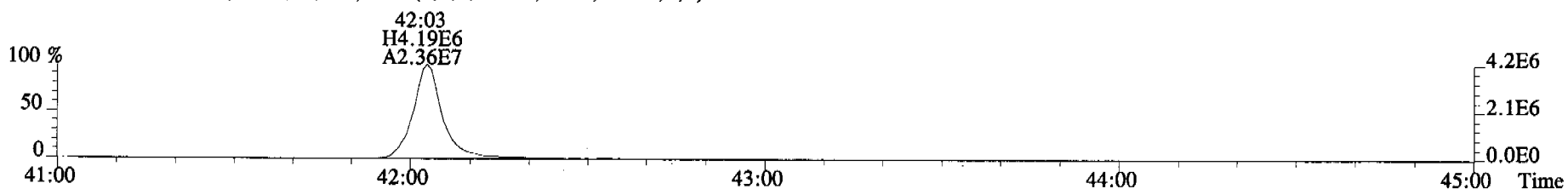
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



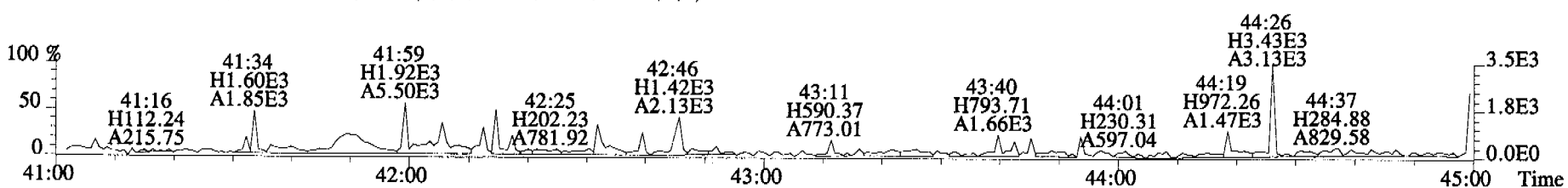
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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



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



Name	Resp	RA	RRF	RT	Conc	Qual	noise	Pac	DL
2,3,7,8-TCDD	*	* n	1.08	NotF η	*		847	2.5	1.28
1,2,3,7,8-PeCDD	*	* n	1.03	NotF η	*		1980	2.5	2.96
1,2,3,4,7,8-HxCDD	*	* n	1.13	NotF η	*		1000	2.5	2.40
1,2,3,6,7,8-HxCDD	*	* n	1.03	NotF η	*		1000	2.5	2.37
1,2,3,7,8,9-HxCDD	*	* n	1.12	NotF η	*		1000	2.5	2.30
1,2,3,4,6,7,8-HpCDD	*	* n	1.02	NotF η	*		2930	2.5	9.15
OCDD	3.59e+05	0.91 y	1.06	41:53	38.361		*	2.5	*
2,3,7,8-TCDF	*	* n	1.06	NotF η	*		1410	2.5	1.75
1,2,3,7,8-PeCDF	*	* n	1.01	NotF η	*		1330	2.5	1.77
2,3,4,7,8-PeCDF	*	* n	1.02	NotF η	*		1330	2.5	2.32
1,2,3,4,7,8-HxCDF	*	* n	1.15	NotF η	*		780	2.5	0.564
1,2,3,6,7,8-HxCDF	*	* n	1.14	NotF η	*		780	2.5	0.676
2,3,4,6,7,8-HxCDF	*	* n	1.17	NotF η	*		780	2.5	0.970
1,2,3,7,8,9-HxCDF	*	* n	1.10	NotF η	*		780	2.5	1.99
1,2,3,4,6,7,8-HpCDF	*	* n	1.31	NotF η	*		1770	2.5	3.06
1,2,3,4,7,8,9-HpCDF	*	* n	1.33	NotF η	*		792	2.5	1.64
OCDF	*	* n	0.91	NotF η	*		1780	2.5	6.29

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		847	1.28
Total Penta-Dioxins	*	1.3515		*	*
Total Hexa-Dioxins	*	*		1690	3.97
Total Hepta-Dioxins	6.6081	6.6081		*	*
Total Tetra-Furans	*	*		1410	1.75
Total Penta-Furans	0.0000	0.0000		1330	2.00
Total Hexa-Furans	*	*		780	0.950
Total Hepta-Furans	*	*		1770	3.35

IS	13C-2,3,7,8-TCDD	2.69e+07	0.81 y	1.09	26:25	1025.3
IS	13C-1,2,3,7,8-PeCDD	2.26e+07	0.61 y	1.04	31:26	901.97
IS	13C-1,2,3,4,7,8-HxCDD	1.72e+07	1.23 y	0.83	34:45	996.19
IS	13C-1,2,3,6,7,8-HxCDD	2.24e+07	1.27 y	1.04	34:51	1033.9
IS	13C-1,2,3,4,6,7,8-HpCDD	2.15e+07	1.07 y	0.85	38:41	1214.5
IS	13C-OCDD	3.59e+07	0.89 y	0.71	41:53	2415.5
IS	13C-2,3,7,8-TCDF	3.71e+07	0.77 y	0.96	25:31	1046.4
IS	13C-1,2,3,7,8-PeCDF	4.21e+07	1.58 y	1.02	30:10	1120.4
IS	13C-2,3,4,7,8-PeCDF	2.98e+07	1.56 y	1.02	31:09	790.60
IS	13C-1,2,3,4,7,8-HxCDF	3.24e+07	0.51 y	1.14	33:53	1361.0
IS	13C-1,2,3,6,7,8-HxCDF	3.23e+07	0.51 y	1.40	34:01	1108.8
IS	13C-2,3,4,6,7,8-HxCDF	2.59e+07	0.52 y	1.26	34:37	984.97
IS	13C-1,2,3,7,8,9-HxCDF	2.12e+07	0.52 y	1.08	35:33	938.28
IS	13C-1,2,3,4,6,7,8-HpCDF	1.97e+07	0.45 y	0.93	37:16	1013.0
IS	13C-1,2,3,4,7,8,9-HpCDF	1.81e+07	0.44 y	0.77	39:17	1132.4
IS	13C-OCDF	4.18e+07	0.90 y	0.94	42:05	2129.7
C/Up	37Cl-2,3,7,8-TCDD	9.77e+06		0.77	26:26	526.08
RS/RT	13C-1,2,3,4-TCDD	4.85e+07	0.82 y	1.00	25:43	2020.2
RS	13C-1,2,3,4-TCDF	7.46e+07	0.78 y	1.00	23:57	2020.2
RS/RT	13C-1,2,3,7,8,9-HxCDD	4.20e+07	1.27 y	1.00	35:09	2020.2

Rec Qual

50.8
44.6
49.3
51.2
60.1
59.8
51.8
55.5
39.1
67.4
54.9
48.8
46.4
50.1
56.1
52.7

Integrations

by
Analyst: MS

Date: 9/21/06

Reviewed

by
Analyst: MS

Date: 9/21/06

Totals class: PeCDD EMPC

Entry #: 21

Run: 17 File: 060920C2 S: 12 I: 1 F: 2

Acquired: 21-SEP-06 00:20:15 Processed: 21-SEP-06 07:06:57

Total Concentration: 1.3515

Unnamed Concentration: 1.351

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
29:13	6.015e+03	2.367e+04	0.25 n	1.556e+04	1.3515	

Totals class: HpCDD EMPC

Entry #: 25

Run: 17 File: 060920C2 S: 12 I: 1 F: 4

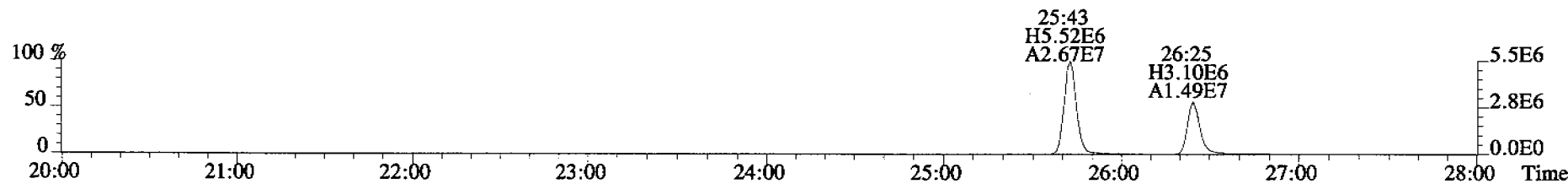
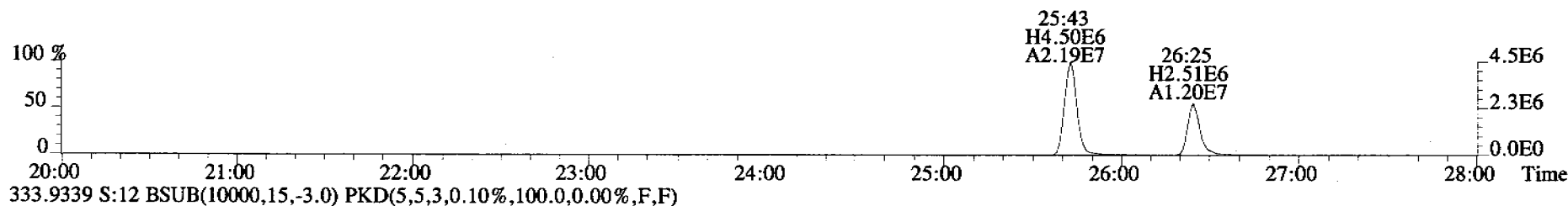
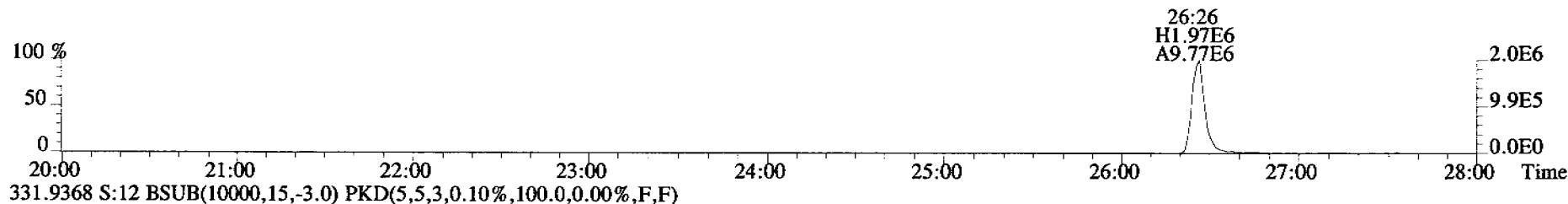
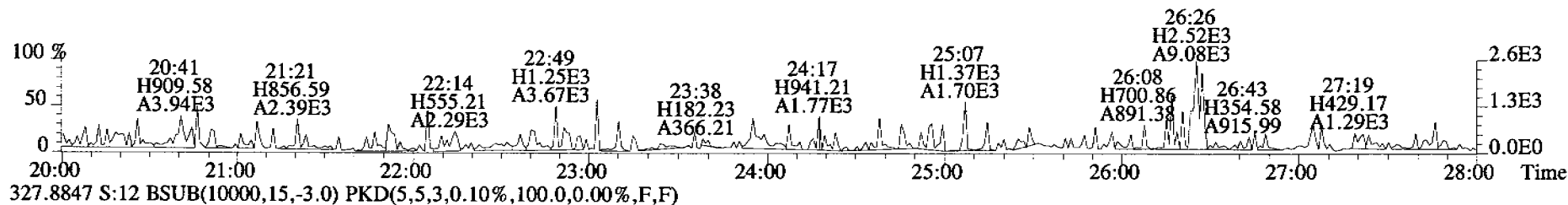
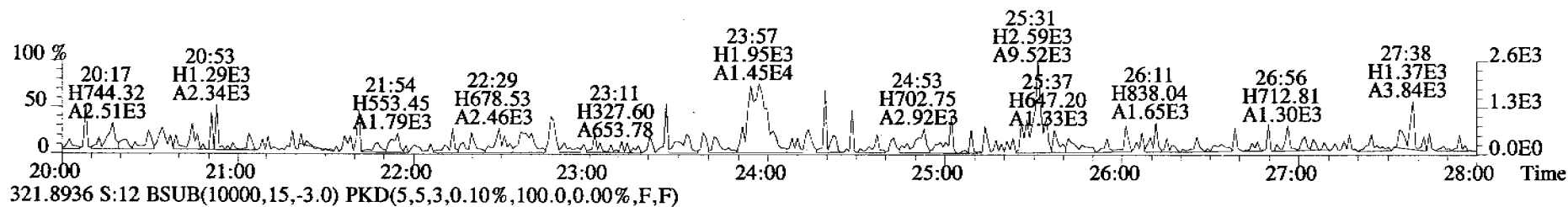
Acquired: 21-SEP-06 00:20:15 Processed: 21-SEP-06 07:06:57

Total Concentration: 6.6081

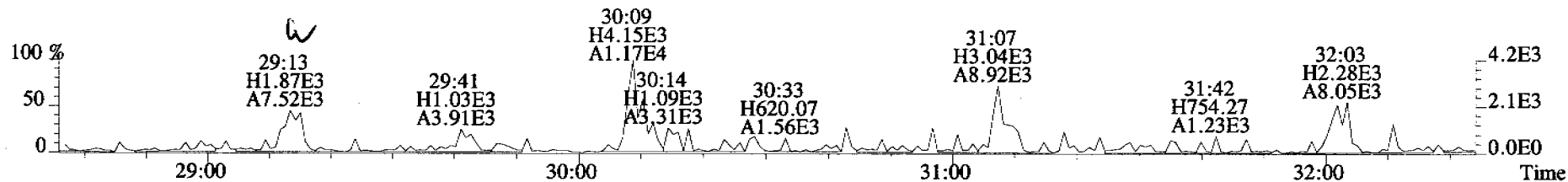
Unnamed Concentration: 6.608

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:39	3.678e+04	3.464e+04	1.06 y	7.142e+04	6.6081	

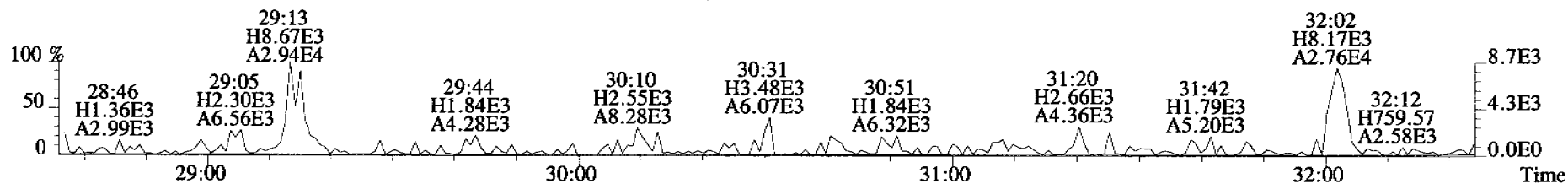
File:060920C2 #1-546 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381 001 IPI1290-01 0.9900L Exp:OCDD_DB5
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



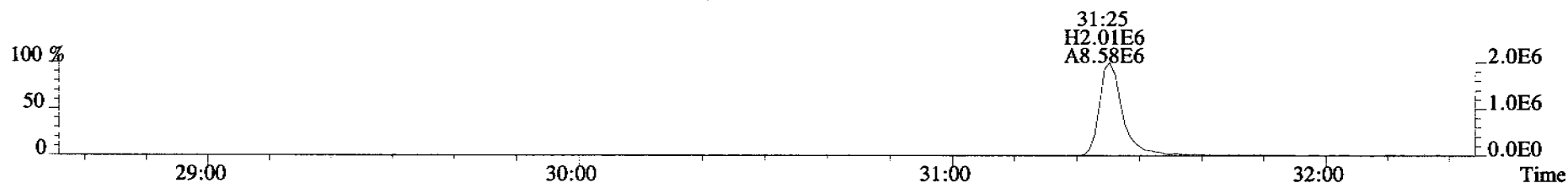
File:060920C2 #1-324 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381 001 IPI1290-01 0.9900L Exp:OCDD_DB5
353.8576 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



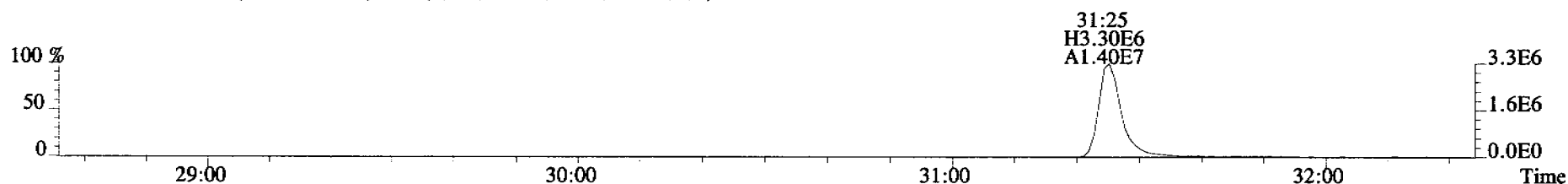
355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



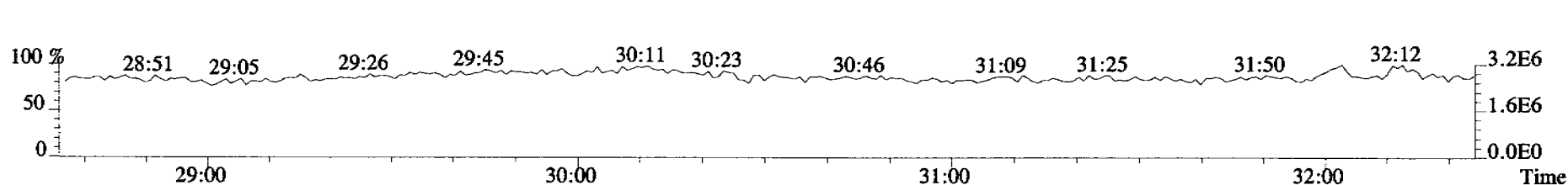
365.8978 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



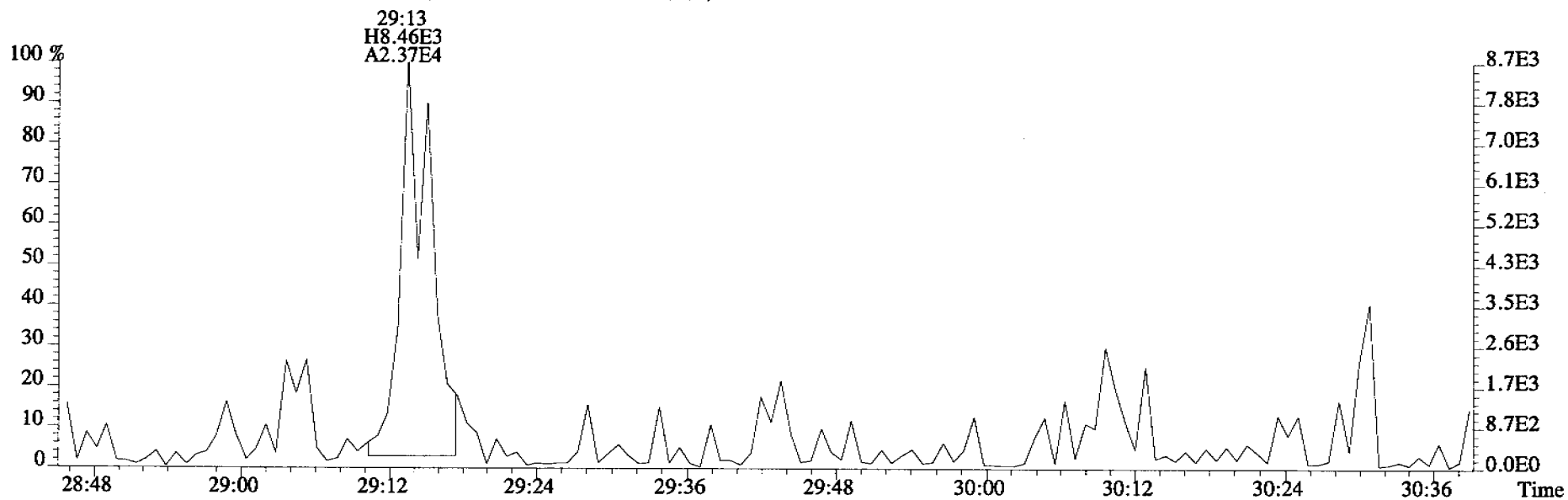
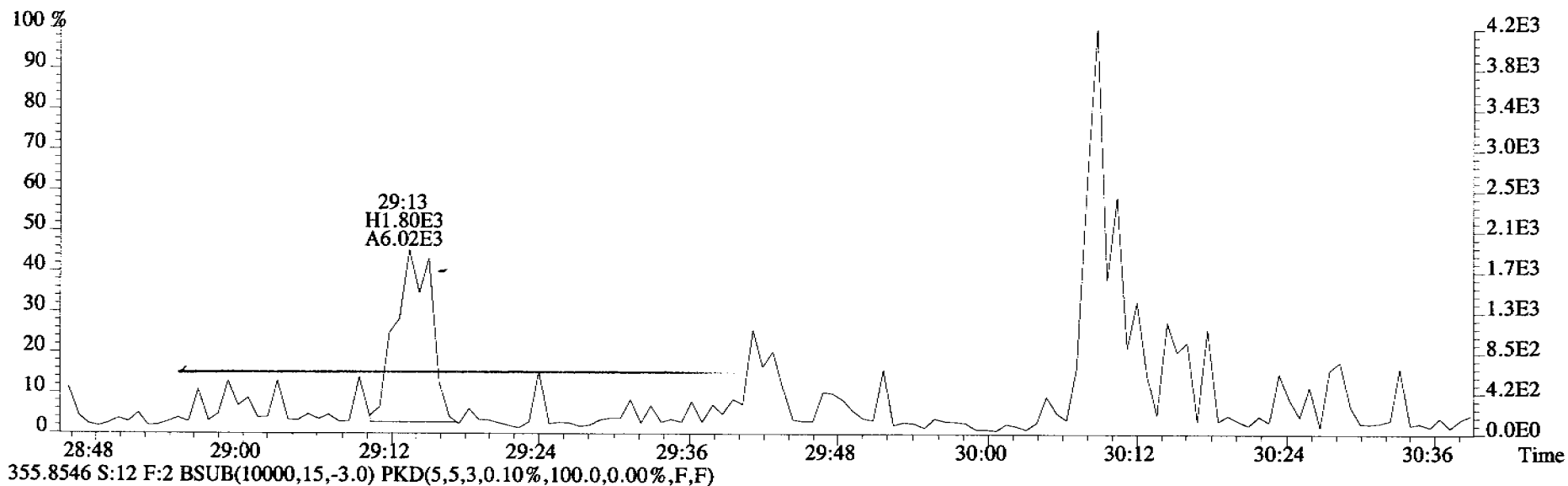
367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



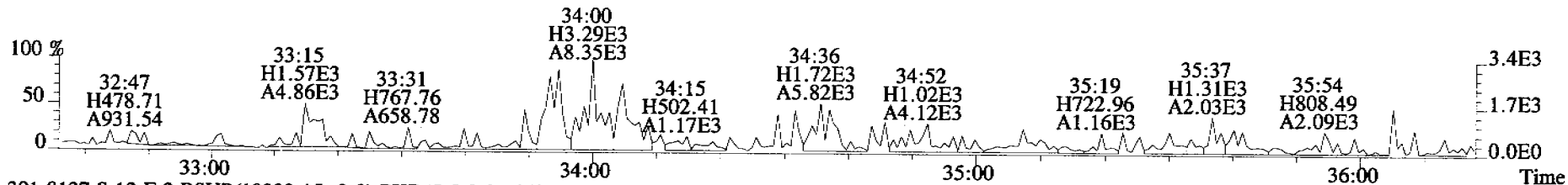
366.9792 S:12 F:2



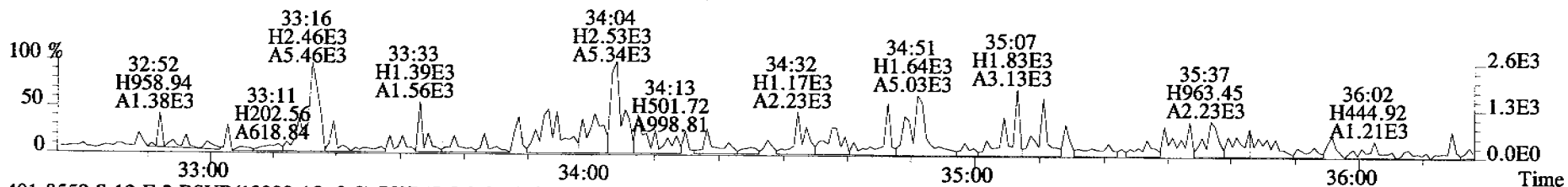
File:060920C2 #1-324 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381 001 IPI1290-01 0.9900L Exp:OCDD_DB5
353.8576 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



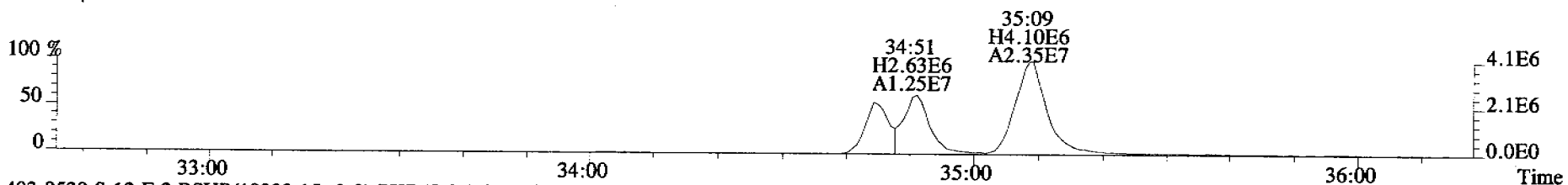
File:060920C2 #1-363 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



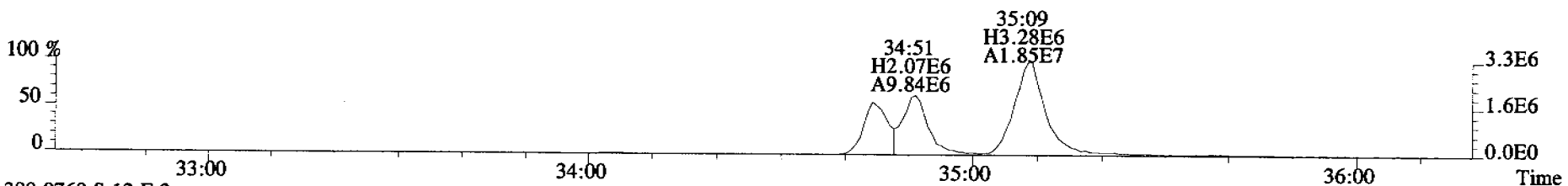
391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



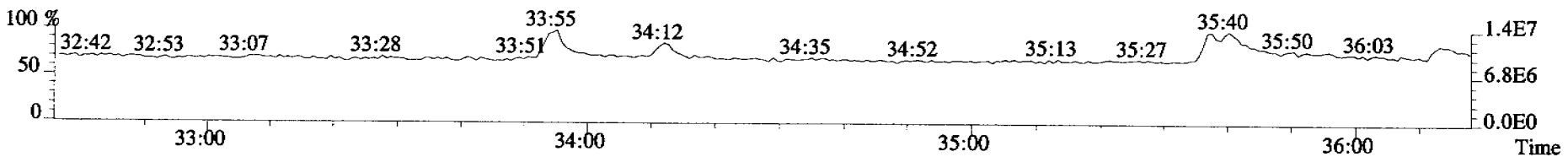
401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



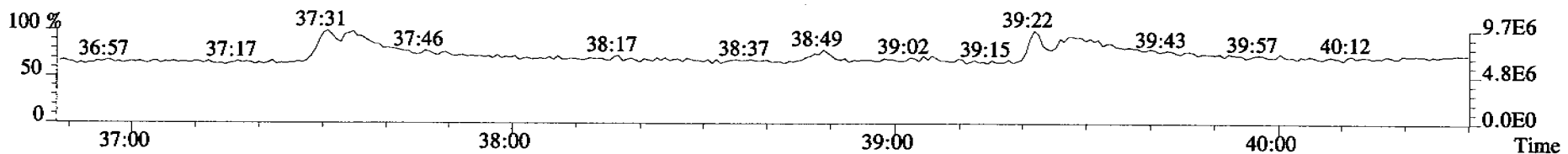
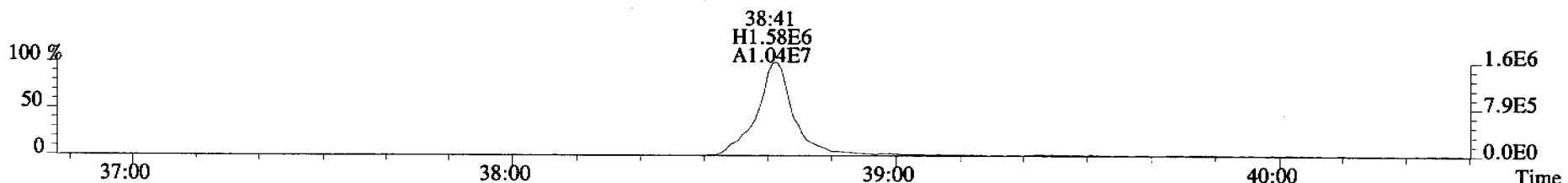
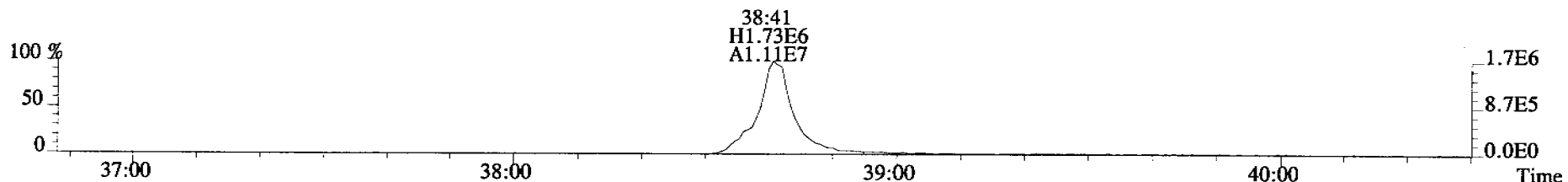
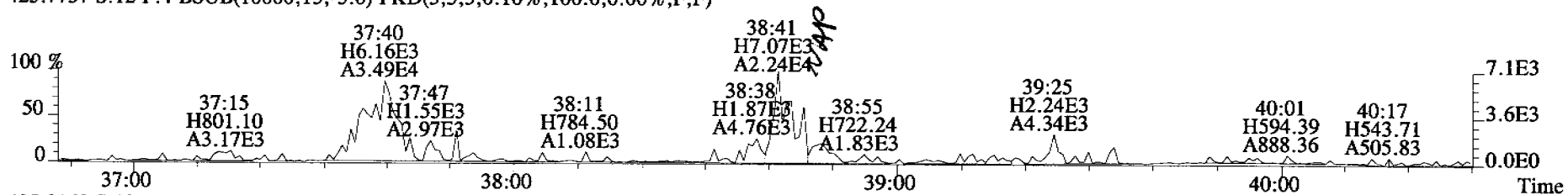
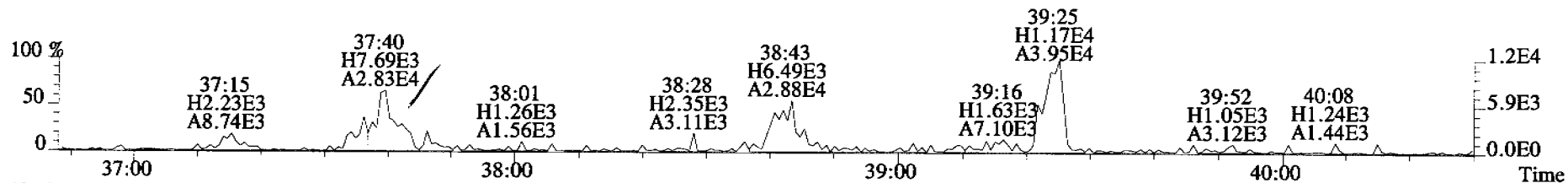
403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



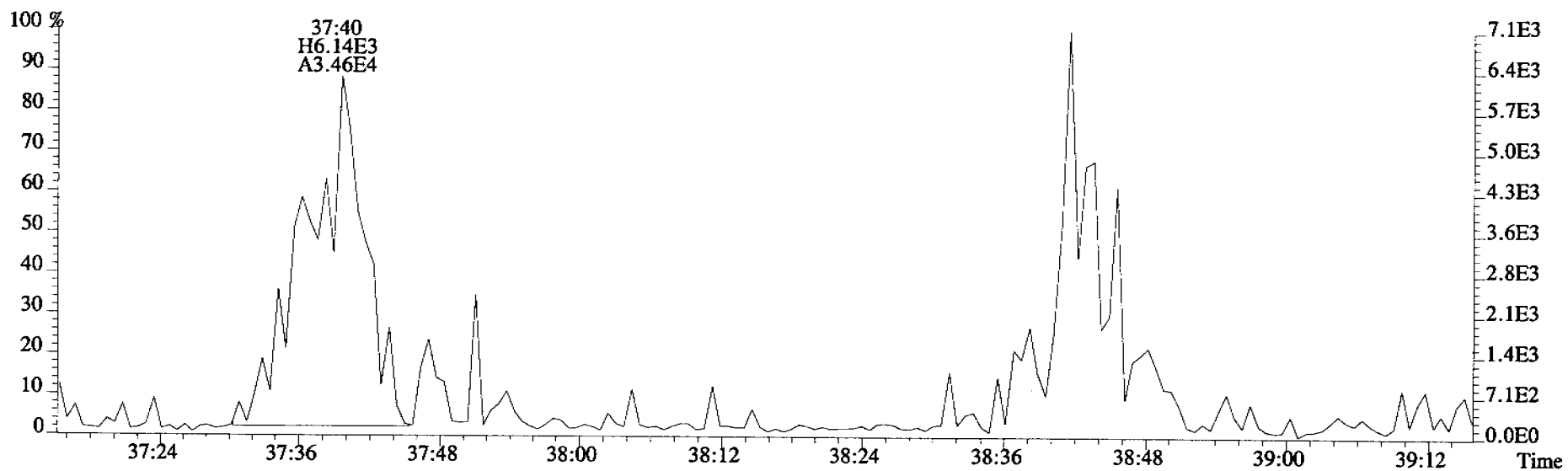
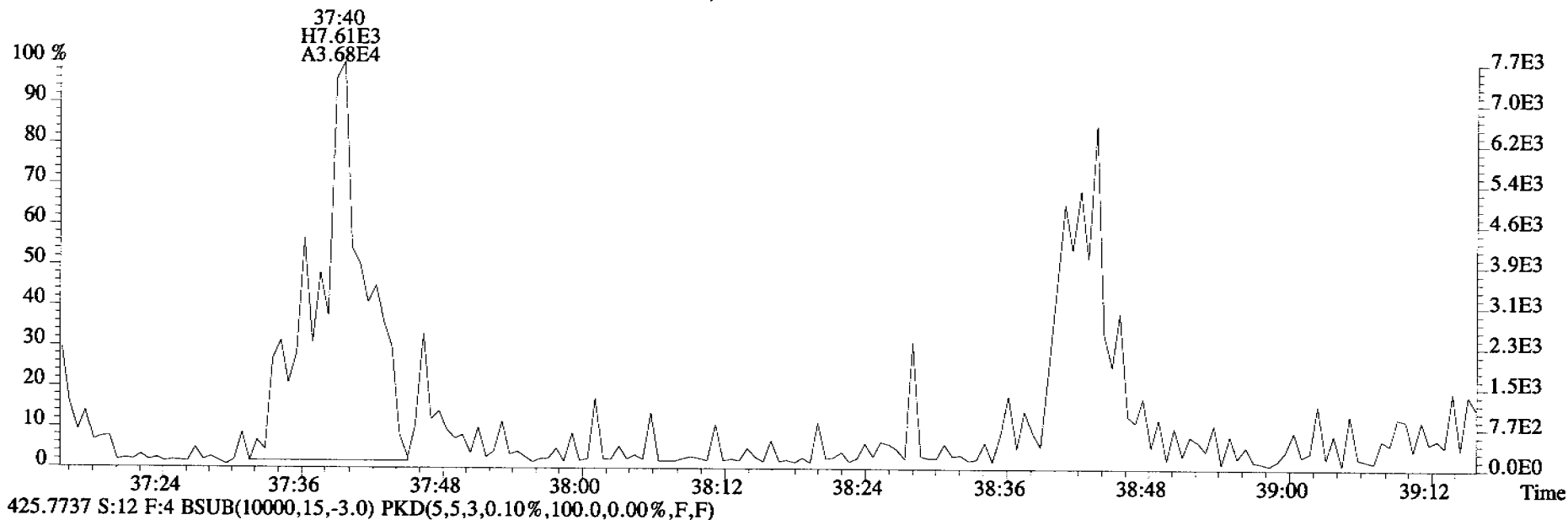
380.9760 S:12 F:3



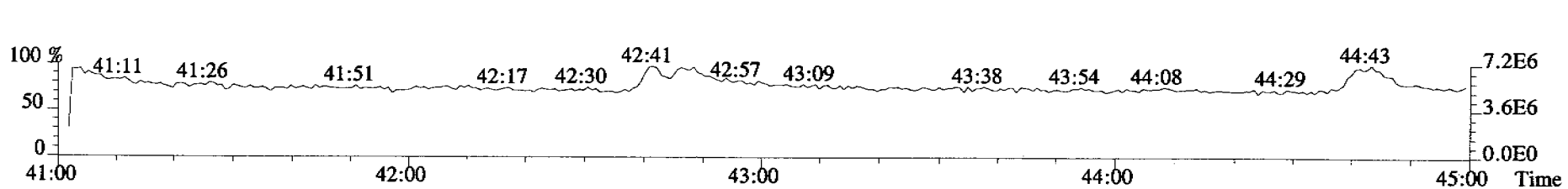
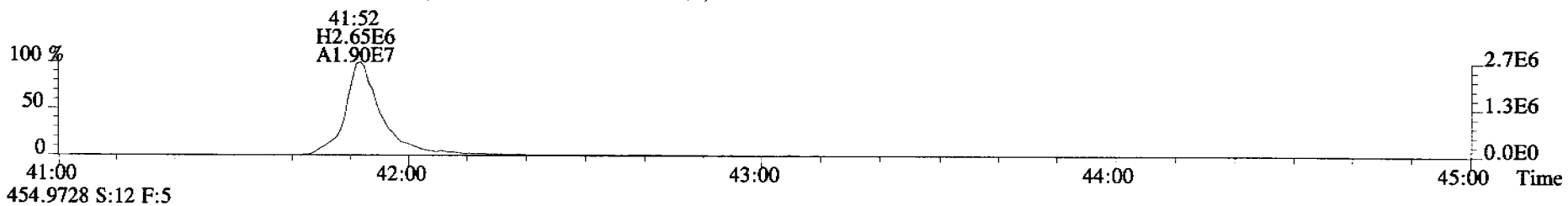
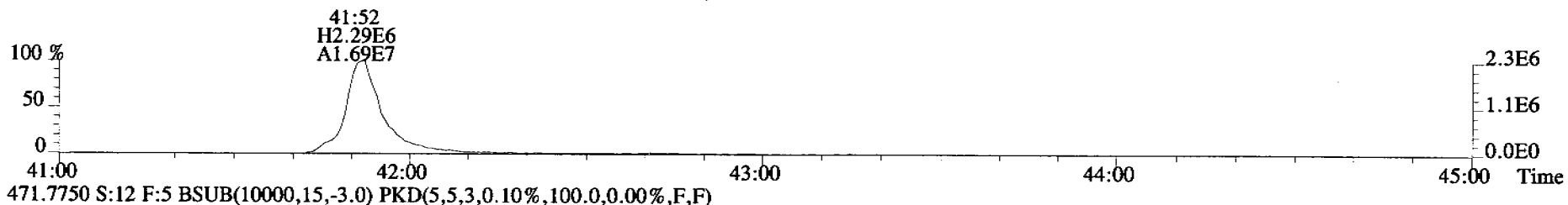
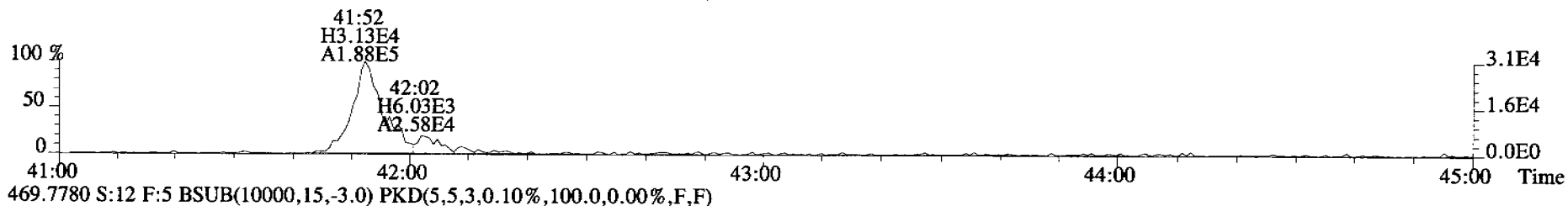
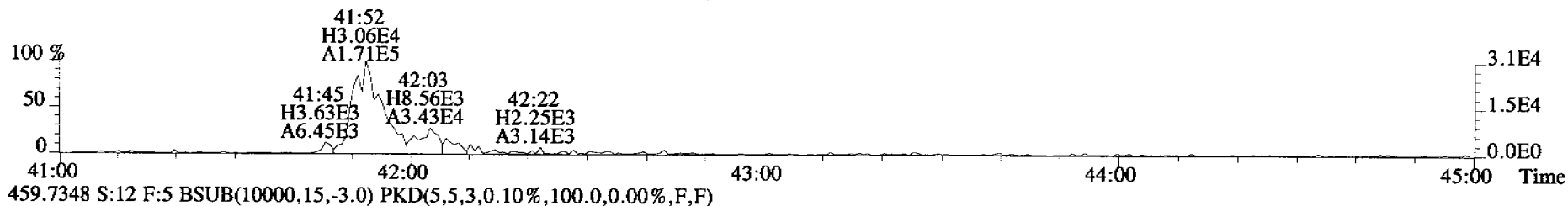
File:060920C2 #1-399 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113_8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



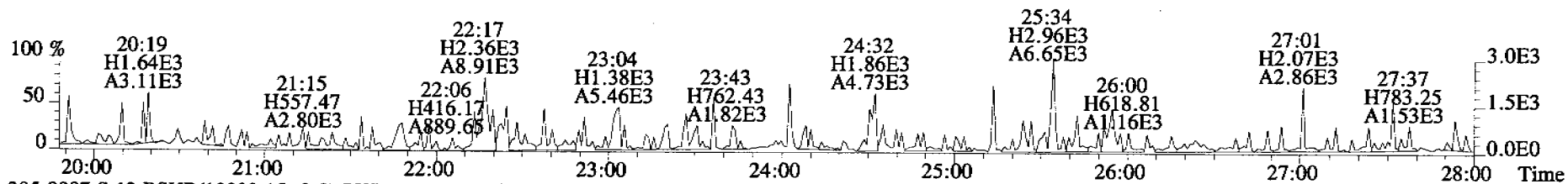
File:060920C2 #1-399 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381 001 IPI1290-01 0.9900L Exp:OCDD_DB5
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



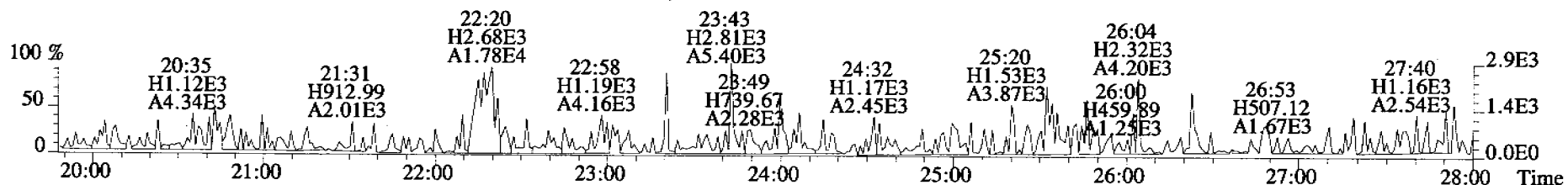
File:060920C2 #1-345 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113_8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



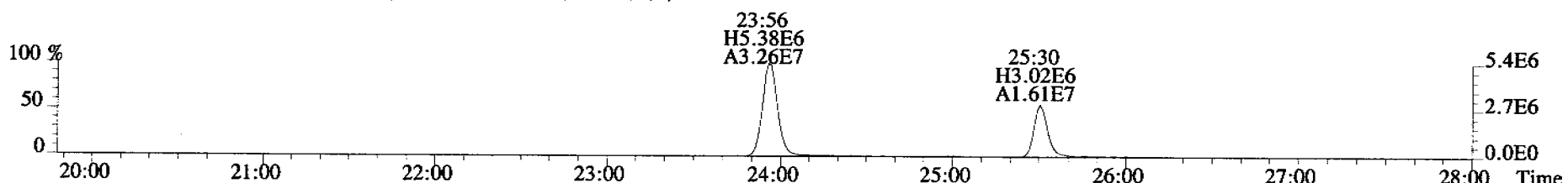
File:060920C2 #1-546 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text:Alta Analytical Laboratory Text:28113_8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
 303.9016 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



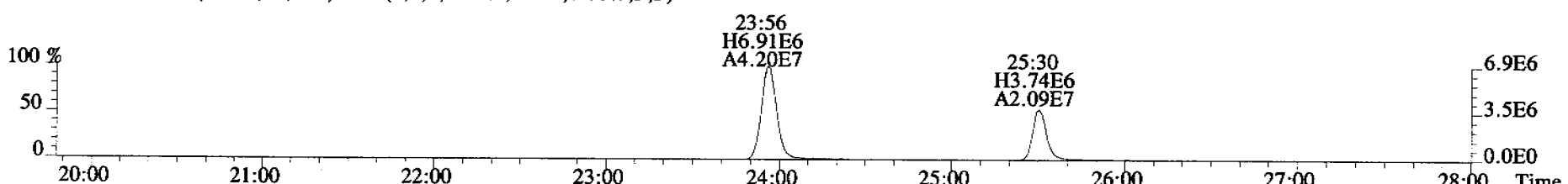
305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



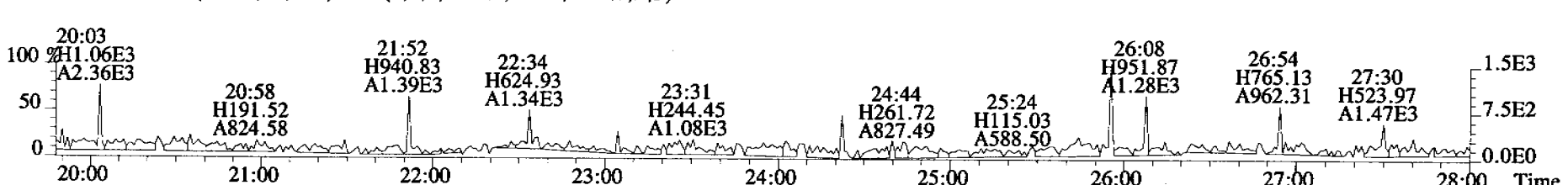
315.9419 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



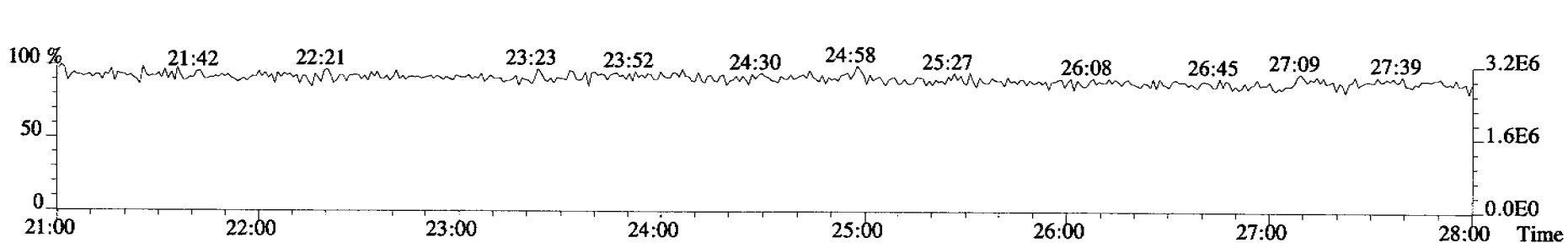
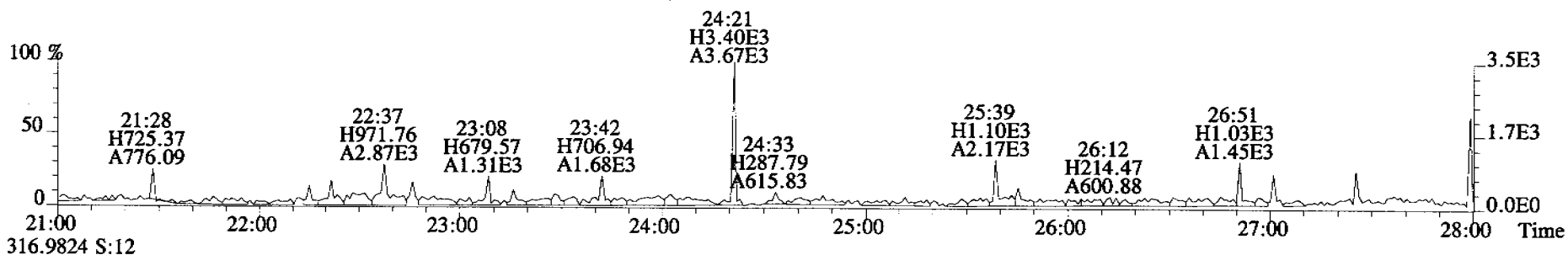
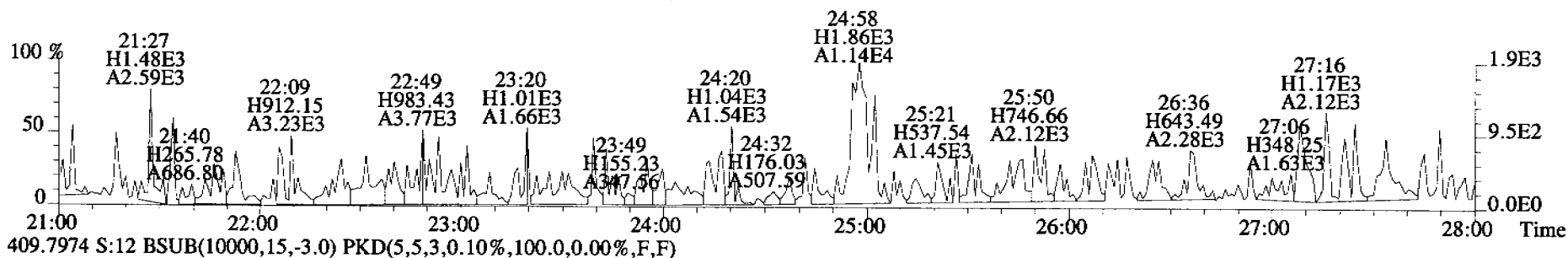
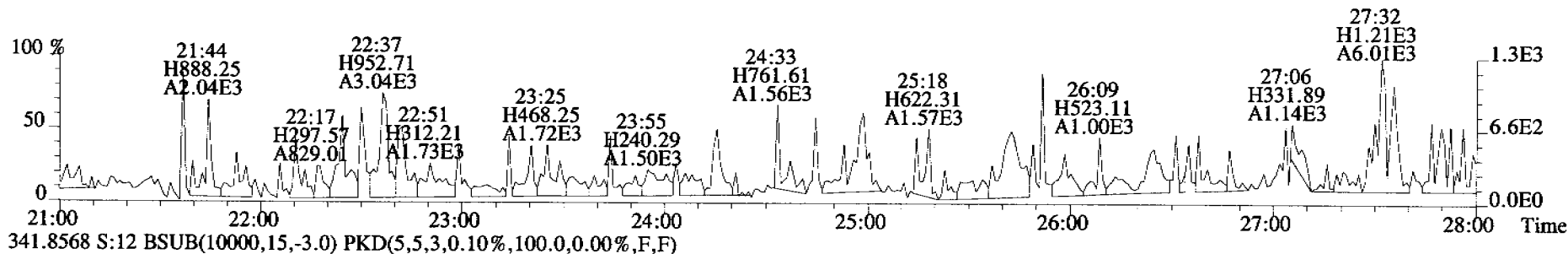
317.9389 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



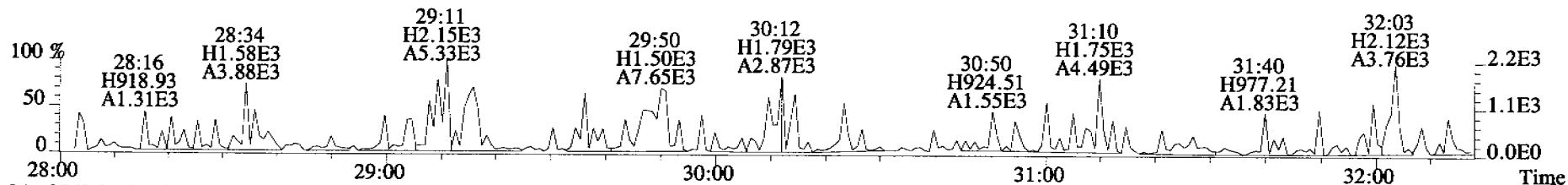
375.8364 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



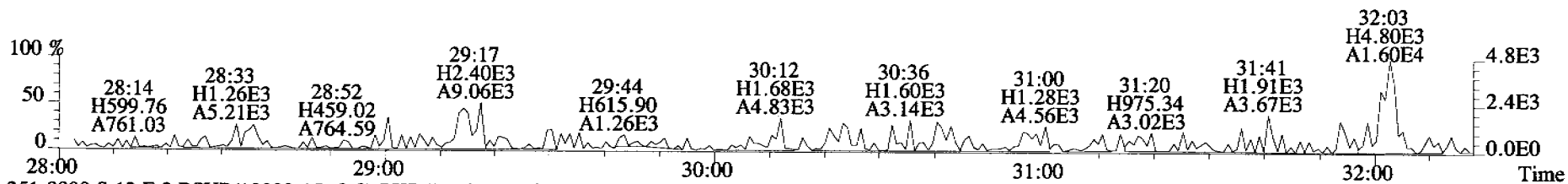
File:060920C2 #1-546 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381 001 IPI1290-01 0.9900L Exp:OCDD_DB5
 339.8597 S:12 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



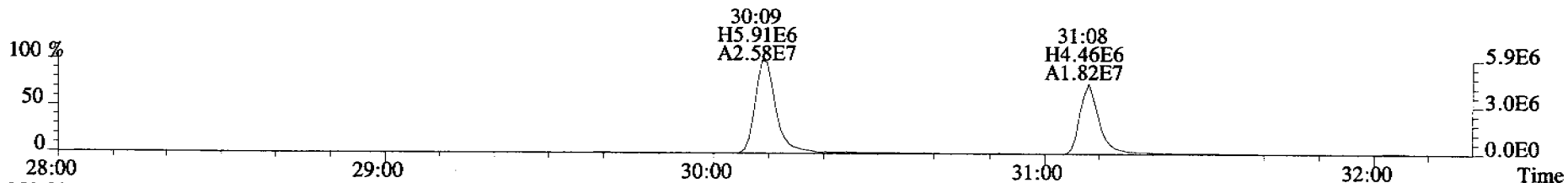
File:060920C2 #1-324 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113_8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



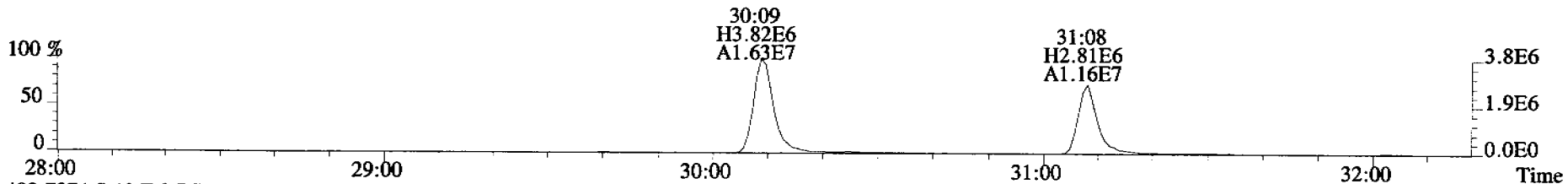
341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



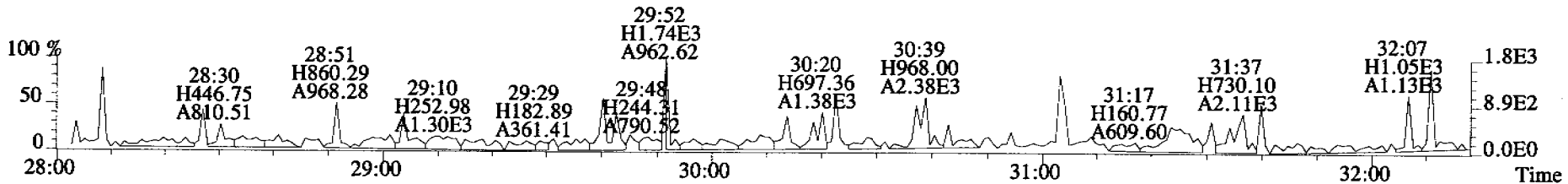
351.9000 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



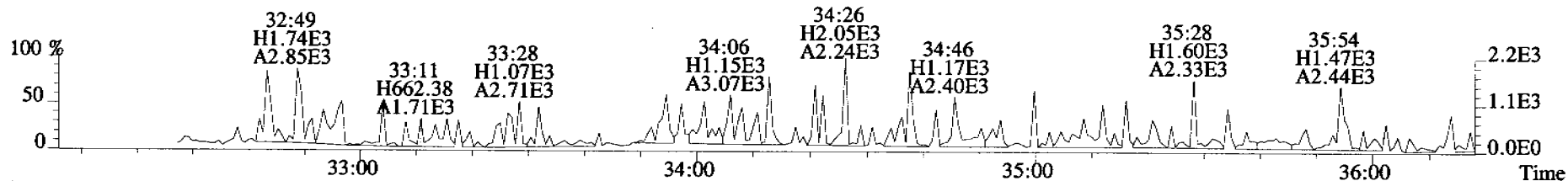
353.8970 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



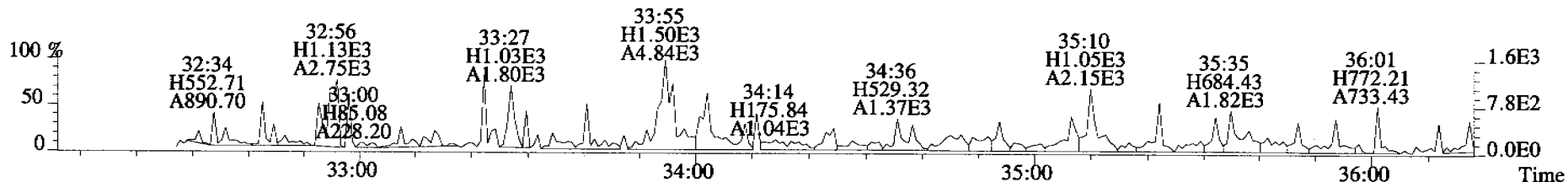
409.7974 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



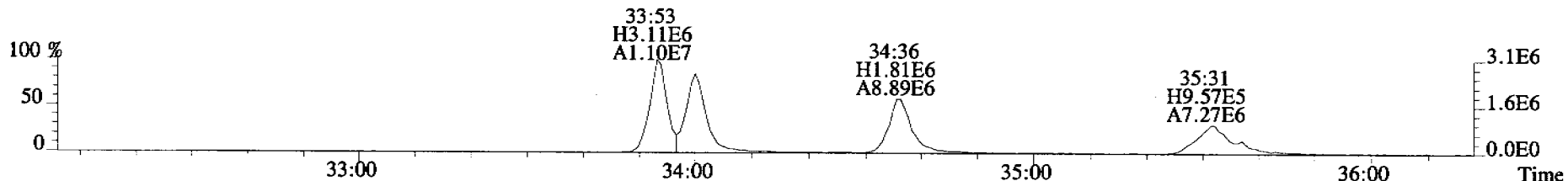
File:060920C2 #1-363 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 File Text:Alta Analytical Laboratory Text:28113_8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
 373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



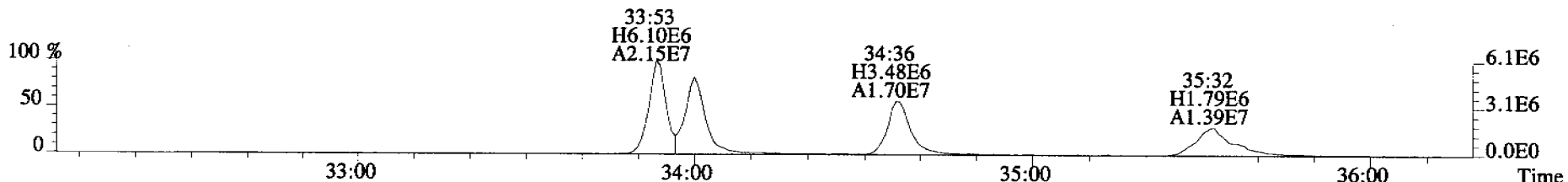
375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



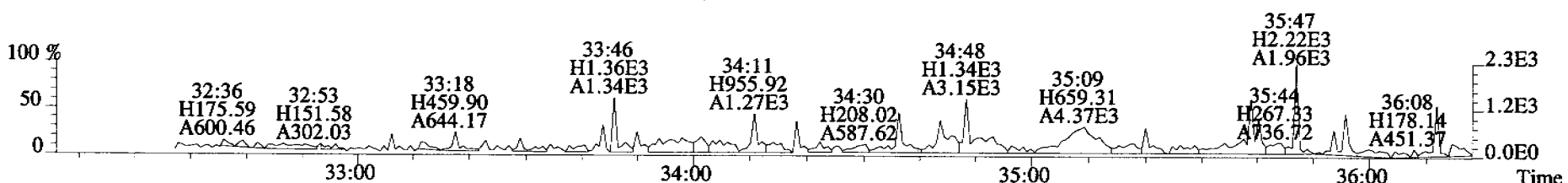
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



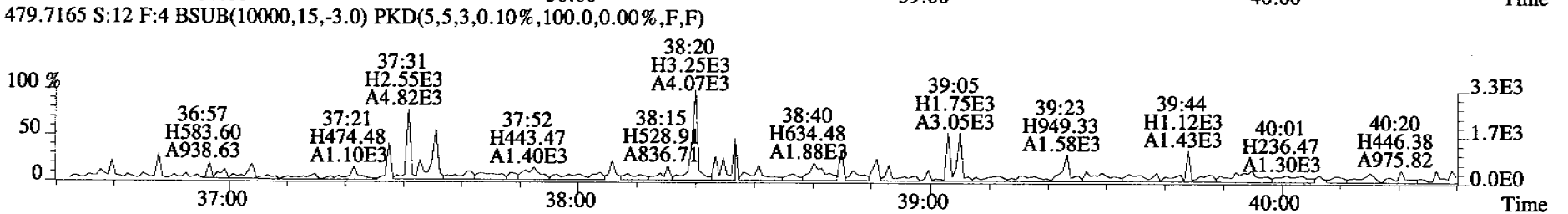
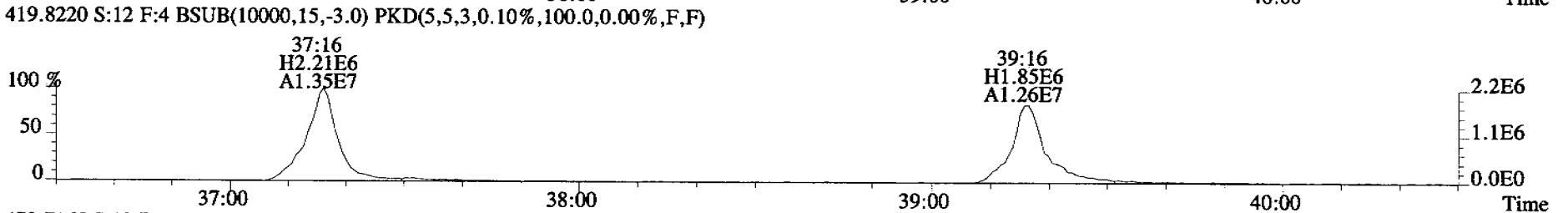
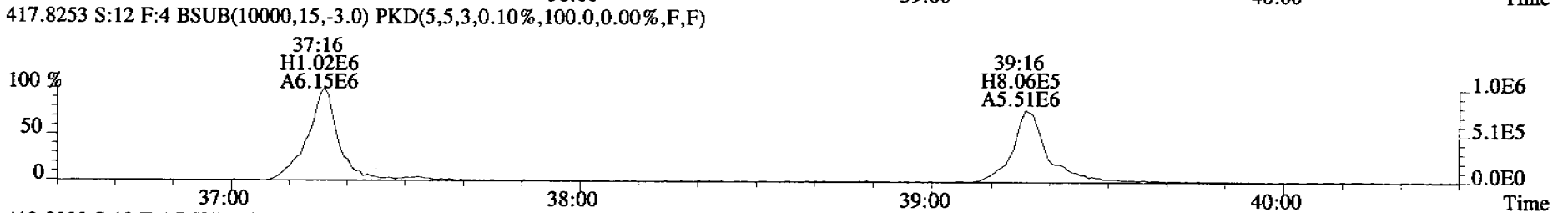
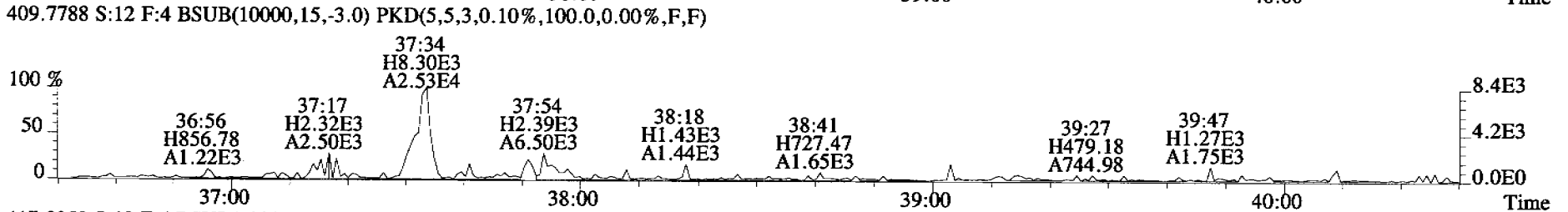
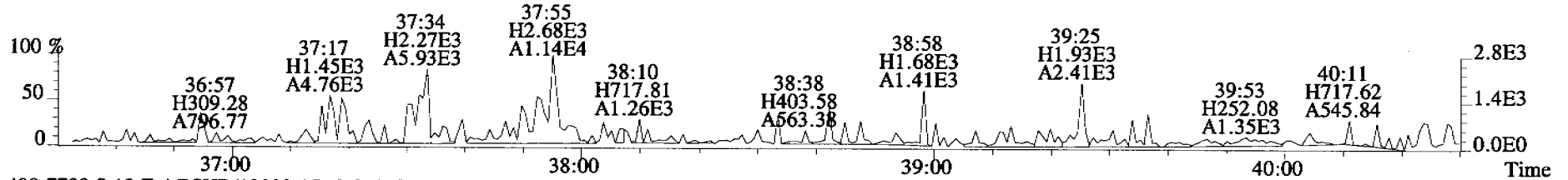
385.8610 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



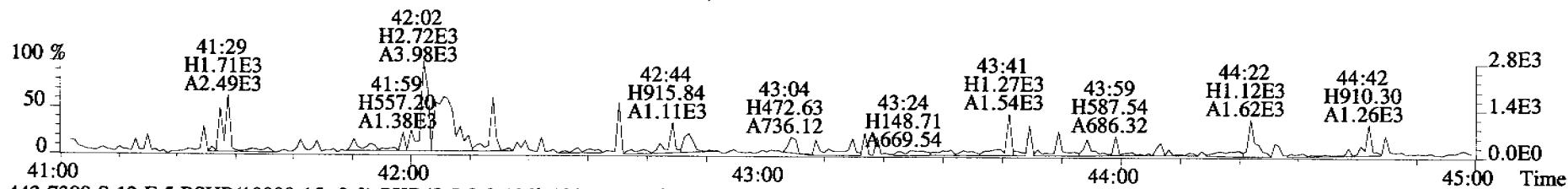
445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



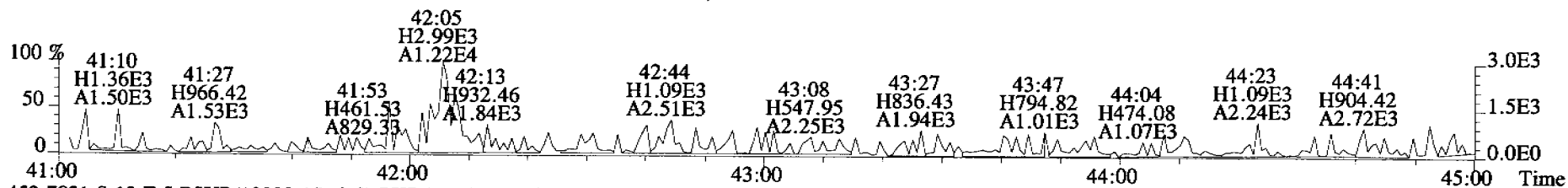
File:060920C2 #1-399 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113 8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



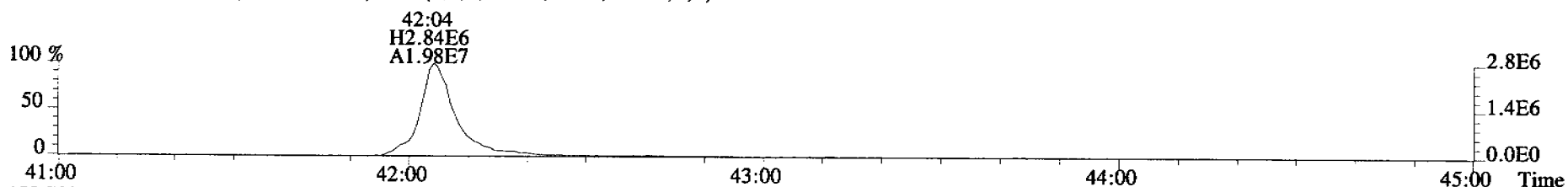
File:060920C2 #1-345 Acq:21-SEP-2006 00:20:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 File Text:Alta Analytical Laboratory Text:28113_8381_001 IPI1290-01 0.9900L Exp:OCDD_DB5
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



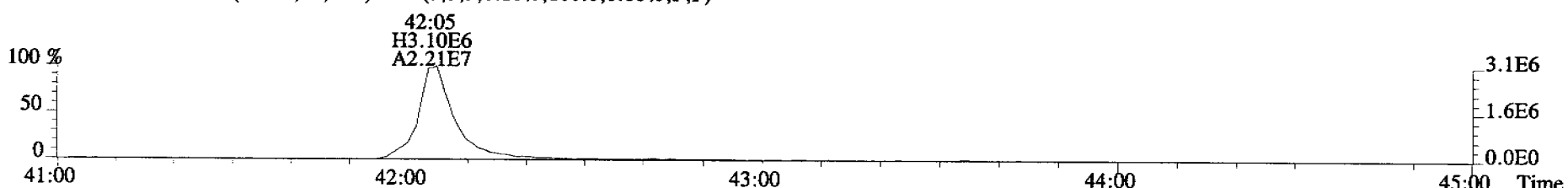
443.7398 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



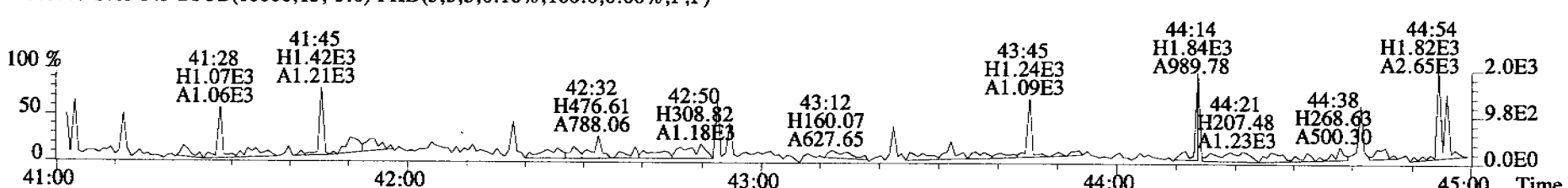
453.7831 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



ICAL

Run: 060322C1

Analyte:

Cal: 1613VG5-3-22-06

Inst. ID. VG-5

Data filename: 060322C1

			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	1.08	7.92 %	1.08	1.16	1.05	1.05	1.19	0.95
1,2,3,7,8-PeCDD	1.03	4.40 %	1.00	1.01	1.02	1.02	1.12	1.01
1,2,3,4,7,8-HxCDD	1.13	4.74 %	1.14	1.08	1.11	1.11	1.24	1.13
1,2,3,6,7,8-HxCDD	1.03	7.53 %	0.96	1.10	1.02	1.05	1.13	0.94
1,2,3,7,8,9-HxCDD	1.12	5.45 %	1.11	1.12	1.08	1.09	1.23	1.07
1,2,3,4,6,7,8-HpCDD	1.02	8.12 %	1.02	1.01	1.02	1.03	1.14	0.88
OCDD	1.06	5.69 %	1.04	1.07	0.98	1.08	1.15	1.02
2,3,7,8-TCDF	1.06	7.77 %	1.02	1.13	1.08	1.07	1.15	0.92
1,2,3,7,8-PeCDF	1.01	4.14 %	0.99	1.00	1.01	1.01	1.08	0.95
2,3,4,7,8-PeCDF	1.02	4.24 %	0.99	1.02	1.03	1.04	1.10	0.97
1,2,3,4,7,8-HxCDF	1.15	5.39 %	1.10	1.18	1.13	1.14	1.25	1.08
1,2,3,6,7,8-HxCDF	1.14	5.33 %	1.10	1.11	1.14	1.13	1.26	1.09
2,3,4,6,7,8-HxCDF	1.17	4.53 %	1.12	1.17	1.16	1.16	1.27	1.14
1,2,3,7,8,9-HxCDF	1.10	5.28 %	1.05	1.07	1.09	1.08	1.21	1.07
1,2,3,4,6,7,8-HpCDF	1.31	4.72 %	1.27	1.31	1.28	1.30	1.43	1.28
1,2,3,4,7,8,9-HpCDF	1.33	5.03 %	1.29	1.35	1.28	1.32	1.45	1.27
OCDF	0.91	3.45 %	0.88	0.90	0.91	0.90	0.97	0.90
13C-2,3,7,8-TCDD	1.09	2.67 %	1.13	1.08	1.09	1.08	1.05	1.12
13C-1,2,3,7,8-PeCDD	1.04	3.01 %	1.09	1.00	1.04	1.03	1.03	1.07
13C-1,2,3,4,7,8-HxCDD	0.83	2.39 %	0.79	0.85	0.83	0.83	0.83	0.84
13C-1,2,3,6,7,8-HxCDD	1.04	2.93 %	1.08	1.06	1.01	1.04	1.00	1.04
13C-1,2,3,4,6,7,8-HpCDD	0.85	5.38 %	0.83	0.81	0.87	0.79	0.89	0.91
13C-OCDD	0.71	11.07 %	0.69	0.66	0.70	0.63	0.75	0.85
13C-2,3,7,8-TCDF	0.96	4.18 %	1.02	0.96	0.92	0.99	0.93	0.92
13C-1,2,3,7,8-PeCDF	1.02	3.93 %	1.09	1.00	0.98	1.04	1.01	0.99
13C-2,3,4,7,8-PeCDF	1.02	4.06 %	1.09	1.00	1.00	1.05	1.00	0.98
13C-1,2,3,4,7,8-HxCDF	1.14	2.98 %	1.12	1.19	1.13	1.17	1.15	1.10
13C-1,2,3,6,7,8-HxCDF	1.40	4.36 %	1.43	1.49	1.38	1.43	1.37	1.31
13C-2,3,4,6,7,8-HxCDF	1.26	2.41 %	1.26	1.30	1.25	1.29	1.23	1.23
13C-1,2,3,7,8,9-HxCDF	1.08	1.14 %	1.10	1.07	1.08	1.08	1.07	1.10
13C-1,2,3,4,6,7,8-HpCDF	0.93	3.49 %	0.93	0.92	0.96	0.88	0.96	0.95
13C-1,2,3,4,7,8,9-HpCDF	0.77	6.13 %	0.74	0.74	0.77	0.71	0.80	0.84
13C-OCDF	0.94	9.65 %	0.93	0.89	0.91	0.84	0.98	1.10
37Cl-2,3,7,8-TCDD	0.77	2.76 %	0.78	0.76	0.77	0.74	0.79	0.80
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-1,2,3,7,8,9-HxCDD	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

MS 7/23/04

ok 9/3/23/06

Filename: 060322C1 S: 1 Acquired: 22-MAR-06 09:32:59

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-1 1613 CS3 060110H

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	1.79e+07	0.78 y	26:33	-	1.08
2	Unk	1,2,3,7,8-PeCDD	50.00	7.94e+07	0.63 y	31:17	-	1.00
3	Unk	1,2,3,4,7,8-HxCDD	50.00	7.27e+07	1.23 y	34:34	-	1.14
4	Unk	1,2,3,6,7,8-HxCDD	50.00	8.37e+07	1.27 y	34:41	-	0.96
5	Unk	1,2,3,7,8,9-HxCDD	50.00	8.40e+07	1.24 y	34:58	-	1.11
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	6.84e+07	1.03 y	38:31	-	1.02
7	Unk	OCDD	100.00	1.16e+08	0.90 y	41:47	-	1.04
8	Unk	2,3,7,8-TCDF	10.00	2.23e+07	0.77 y	25:42	-	1.02
9	Unk	1,2,3,7,8-PeCDF	50.00	1.15e+08	1.55 y	30:03	-	0.99
10	Unk	2,3,4,7,8-PeCDF	50.00	1.15e+08	1.55 y	30:59	-	0.99
11	Unk	1,2,3,4,7,8-HxCDF	50.00	9.97e+07	1.23 y	33:41	-	1.10
12	Unk	1,2,3,6,7,8-HxCDF	50.00	1.27e+08	1.24 y	33:49	-	1.10
13	Unk	2,3,4,6,7,8-HxCDF	50.00	1.14e+08	1.24 y	34:25	-	1.12
14	Unk	1,2,3,7,8,9-HxCDF	50.00	9.32e+07	1.25 y	35:21	-	1.05
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	9.59e+07	1.01 y	37:07	-	1.27
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	7.72e+07	1.02 y	39:04	-	1.29
17	Unk	OCDF	100.00	1.33e+08	0.89 y	42:00	-	0.88
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08
19	Tot	TCDD EMPC	0.00	-	- n	-	-	1.08
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.00
21	Tot	PeCDD EMPC	0.00	-	- n	-	-	1.00
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	-	-	1.02
25	Tot	HpCDD EMPC	0.00	-	- n	-	-	1.02
26	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.02
27	Tot	TCDF EMPC	0.00	-	- n	-	-	1.02
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	-	0.99
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	-	0.99
30	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.99
31	Tot	PeCDF EMPC	0.00	-	- n	-	-	0.99
32	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.10
33	Tot	HxCDF EMPC	0.00	-	- n	-	-	1.10
34	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.28
35	Tot	HpCDF EMPC	0.00	-	- n	-	-	1.28
36	IS	13C-2,3,7,8-TCDD	100.00	1.66e+08	0.78 y	26:31	-	1.13
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.59e+08	0.65 y	31:16	-	1.09
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.28e+08	1.25 y	34:33	-	0.79

39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.75e+08	1.26 y	34:40	-	1.08
40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.34e+08	1.07 y	38:30	-	0.83
41	IS	13C-OCDD	200.00	2.24e+08	0.89 y	41:46	-	0.69
42	IS	13C-2,3,7,8-TCDF	100.00	2.18e+08	0.79 y	25:41	-	1.02
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.32e+08	1.59 y	30:02	-	1.09
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.32e+08	1.61 y	30:59	-	1.09
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.81e+08	0.52 y	33:40	-	1.12
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.31e+08	0.54 y	33:48	-	1.43
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.04e+08	0.54 y	34:24	-	1.26
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.78e+08	0.53 y	35:20	-	1.10
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.51e+08	0.43 y	37:05	-	0.93
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.20e+08	0.44 y	39:04	-	0.74
51	IS	13C-OCDF	200.00	3.02e+08	0.91 y	41:59	-	0.93

52	C/Up	37Cl-2,3,7,8-TCDD	10.00	1.15e+07		26:32	-	0.78
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.47e+08	0.80 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.13e+08	0.78 y	24:18	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.62e+08	1.27 y	34:58	-	1.00

Filename: 060322C1 S: 3 Acquired: 22-MAR-06 11:12:17

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-2 1613 CS0 060110E

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	4.63e+05	0.72 y	26:33	-	1.16
2	Unk	1,2,3,7,8-PeCDD	1.25	1.87e+06	0.60 y	31:17	-	1.01
3	Unk	1,2,3,4,7,8-HxCDD	1.25	1.65e+06	1.24 y	34:34	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	1.25	2.11e+06	1.29 y	34:41	-	1.10
5	Unk	1,2,3,7,8,9-HxCDD	1.25	1.94e+06	1.31 y	34:59	-	1.12
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	1.49e+06	0.96 y	38:32	-	1.01
7	Unk	OCDD	2.50	2.54e+06	0.82 y	41:46	-	1.07
8	Unk	2,3,7,8-TCDF	0.25	5.89e+05	0.73 y	25:43	-	1.13
9	Unk	1,2,3,7,8-PeCDF	1.25	2.72e+06	1.49 y	30:03	-	1.00
10	Unk	2,3,4,7,8-PeCDF	1.25	2.78e+06	1.58 y	30:59	-	1.02
11	Unk	1,2,3,4,7,8-HxCDF	1.25	2.55e+06	1.25 y	33:41	-	1.18
12	Unk	1,2,3,6,7,8-HxCDF	1.25	2.98e+06	1.31 y	33:49	-	1.11
13	Unk	2,3,4,6,7,8-HxCDF	1.25	2.76e+06	1.26 y	34:25	-	1.17
14	Unk	1,2,3,7,8,9-HxCDF	1.25	2.08e+06	1.22 y	35:21	-	1.07
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	2.19e+06	1.00 y	37:07	-	1.31
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	1.82e+06	0.99 y	39:05	-	1.35
17	Unk	OCDF	2.50	2.91e+06	0.90 y	41:59	-	0.90
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	-	-	1.01
21	Tot	PeCDD EMPC	0.00	-	- n	-	-	1.01
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.10
23	Tot	HxCDD EMPC	0.00	-	- n	-	-	1.10
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.01
25	Tot	HpCDD EMPC	0.00	-	- n	-	-	1.01
26	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.13
27	Tot	TCDF EMPC	0.00	-	- n	-	-	1.13
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	-	1.01
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	-	1.01
30	Tot	Total Penta-Furans	0.00	-	- n	-	-	1.01
31	Tot	PeCDF EMPC	0.00	-	- n	-	-	1.01
32	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.13
33	Tot	HxCDF EMPC	0.00	-	- n	-	-	1.13
34	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.33
35	Tot	HpCDF EMPC	0.00	-	- n	-	-	1.33
36	IS	13C-2,3,7,8-TCDD	100.00	1.60e+08	0.80 y	26:32	-	1.08
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.49e+08	0.64 y	31:16	-	1.00
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.23e+08	1.27 y	34:33	-	0.85
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.54e+08	1.27 y	34:40	-	1.06

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.18e+08	1.07 y	38:32	-	0.81
41	IS	13C-OCDD	200.00	1.91e+08	0.90 y	41:47	-	0.66
42	IS	13C-2,3,7,8-TCDF	100.00	2.08e+08	0.79 y	25:41	-	0.96
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.17e+08	1.60 y	30:02	-	1.00
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.17e+08	1.58 y	30:58	-	1.00
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.73e+08	0.54 y	33:41	-	1.19
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.15e+08	0.53 y	33:49	-	1.49
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.89e+08	0.52 y	34:24	-	1.30
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.56e+08	0.53 y	35:20	-	1.07
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.34e+08	0.43 y	37:07	-	0.92
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.08e+08	0.43 y	39:04	-	0.74
51	IS	13C-OCDF	200.00	2.57e+08	0.88 y	41:59	-	0.89

52	C/Up	37C1-2,3,7,8-TCDD	0.25	2.81e+05		26:33	-	0.76
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.48e+08	0.80 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.18e+08	0.79 y	24:18	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.45e+08	1.26 y	34:58	-	1.00

Filename: 060322C1 S: 4 Acquired: 22-MAR-06 12:02:01
 Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06 Results:
 Sample text: ST060322C1-3 1613 CS1 060110F

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	8.69e+05	0.73 y	26:33	- 1.05
2	Unk	1,2,3,7,8-PeCDD	2.50	4.04e+06	0.64 y	31:16	- 1.02
3	Unk	1,2,3,4,7,8-HxCDD	2.50	3.83e+06	1.23 y	34:34	- 1.11
4	Unk	1,2,3,6,7,8-HxCDD	2.50	4.26e+06	1.27 y	34:40	- 1.02
5	Unk	1,2,3,7,8,9-HxCDD	2.50	4.12e+06	1.34 y	34:58	- 1.08
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	3.65e+06	0.98 y	38:30	- 1.02
7	Unk	OCDD	5.00	5.67e+06	0.86 y	41:46	- 0.98
8	Unk	2,3,7,8-TCDF	0.50	1.16e+06	0.79 y	25:43	- 1.08
9	Unk	1,2,3,7,8-PeCDF	2.50	5.73e+06	1.60 y	30:02	- 1.01
10	Unk	2,3,4,7,8-PeCDF	2.50	5.95e+06	1.52 y	30:59	- 1.03
11	Unk	1,2,3,4,7,8-HxCDF	2.50	5.27e+06	1.27 y	33:41	- 1.13
12	Unk	1,2,3,6,7,8-HxCDF	2.50	6.53e+06	1.25 y	33:49	- 1.14
13	Unk	2,3,4,6,7,8-HxCDF	2.50	5.96e+06	1.26 y	34:25	- 1.16
14	Unk	1,2,3,7,8,9-HxCDF	2.50	4.89e+06	1.23 y	35:20	- 1.09
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	5.05e+06	1.01 y	37:06	- 1.28
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	4.06e+06	1.00 y	39:03	- 1.28
17	Unk	OCDF	5.00	6.85e+06	0.87 y	42:00	- 0.91
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.05
19	Tot	TCDD EMPC	0.00	-	- n	-	- 1.05
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.02
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.02
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	-	- 1.02
25	Tot	HpCDD EMPC	0.00	-	- n	-	- 1.02
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	-	- 1.02
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	- 1.02
30	Tot	Total Penta-Furans	0.00	-	- n	-	- 1.02
31	Tot	PeCDF EMPC	0.00	-	- n	-	- 1.02
32	Tot	Total Hexa-Furans	0.00	-	- n	-	- 1.13
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.13
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.28
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.28
36	IS	13C-2,3,7,8-TCDD	100.00	1.66e+08	0.78 y	26:31	- 1.09
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.59e+08	0.64 y	31:15	- 1.04
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.37e+08	1.27 y	34:33	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.68e+08	1.27 y	34:39	- 1.01

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.44e+08	1.07 y	38:30	-	0.87
41	IS	13C-OCDD	200.00	2.32e+08	0.91 y	41:46	-	0.70
42	IS	13C-2,3,7,8-TCDF	100.00	2.15e+08	0.80 y	25:42	-	0.92
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.28e+08	1.60 y	30:01	-	0.98
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.32e+08	1.57 y	30:58	-	1.00
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.86e+08	0.52 y	33:40	-	1.13
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.28e+08	0.52 y	33:48	-	1.38
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.06e+08	0.52 y	34:24	-	1.25
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.79e+08	0.52 y	35:19	-	1.08
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.58e+08	0.45 y	37:05	-	0.96
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.27e+08	0.44 y	39:03	-	0.77
51	IS	13C-OCDF	200.00	3.02e+08	0.89 y	41:59	-	0.91

52	C/Up	37C1-2,3,7,8-TCDD	0.50	5.89e+05		26:33	-	0.77
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.53e+08	0.80 y	25:54	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.32e+08	0.78 y	24:19	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.65e+08	1.29 y	34:57	-	1.00

Filename: 060322C1 S: 5 Acquired: 22-MAR-06 12:51:46
 Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06 Results:
 Sample text: ST060322C1-4 1613 CS2 060110G

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	3.64e+06	0.80 y	26:33	- 1.05
2	Unk	1,2,3,7,8-PeCDD	10.00	1.69e+07	0.63 y	31:17	- 1.02
3	Unk	1,2,3,4,7,8-HxCDD	10.00	1.53e+07	1.25 y	34:34	- 1.11
4	Unk	1,2,3,6,7,8-HxCDD	10.00	1.82e+07	1.28 y	34:41	- 1.05
5	Unk	1,2,3,7,8,9-HxCDD	10.00	1.69e+07	1.27 y	34:58	- 1.09
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	1.36e+07	1.05 y	38:32	- 1.03
7	Unk	OCDD	20.00	2.24e+07	0.90 y	41:52	- 1.08
8	Unk	2,3,7,8-TCDF	2.00	4.80e+06	0.77 y	25:43	- 1.07
9	Unk	1,2,3,7,8-PeCDF	10.00	2.39e+07	1.53 y	30:02	- 1.01
10	Unk	2,3,4,7,8-PeCDF	10.00	2.49e+07	1.60 y	30:59	- 1.04
11	Unk	1,2,3,4,7,8-HxCDF	10.00	2.22e+07	1.23 y	33:41	- 1.14
12	Unk	1,2,3,6,7,8-HxCDF	10.00	2.68e+07	1.23 y	33:49	- 1.13
13	Unk	2,3,4,6,7,8-HxCDF	10.00	2.49e+07	1.22 y	34:25	- 1.16
14	Unk	1,2,3,7,8,9-HxCDF	10.00	1.94e+07	1.24 y	35:20	- 1.08
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	1.89e+07	1.04 y	37:08	- 1.30
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	1.55e+07	1.03 y	39:05	- 1.32
17	Unk	OCDF	20.00	2.53e+07	0.87 y	42:03	- 0.90
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.05
19	Tot	TCDD EMPC	0.00	-	- n	-	- 1.05
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.02
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.02
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	- 1.08
23	Tot	HxCDD EMPC	0.00	-	- n	-	- 1.08
24	Tot	Total Hepta-Dioxins	0.00	-	- n	-	- 1.03
25	Tot	HpCDD EMPC	0.00	-	- n	-	- 1.03
26	Tot	Total Tetra-Furans	0.00	-	- n	-	- 1.07
27	Tot	TCDF EMPC	0.00	-	- n	-	- 1.07
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	- 1.03
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	- 1.03
30	Tot	Total Penta-Furans	0.00	-	- n	-	- 1.03
31	Tot	PeCDF EMPC	0.00	-	- n	-	- 1.03
32	Tot	Total Hexa-Furans	0.00	-	- n	-	- 1.13
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.13
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.31
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.31
36	IS	13C-2,3,7,8-TCDD	100.00	1.73e+08	0.79 y	26:32	- 1.08
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.65e+08	0.64 y	31:16	- 1.03
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.38e+08	1.27 y	34:33	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.73e+08	1.27 y	34:40	- 1.04

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.32e+08	1.09 y	38:31	-	0.79
41	IS	13C-OCDD	200.00	2.08e+08	0.89 y	41:51	-	0.63
42	IS	13C-2,3,7,8-TCDF	100.00	2.25e+08	0.79 y	25:42	-	0.99
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.36e+08	1.59 y	30:02	-	1.04
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.39e+08	1.59 y	30:59	-	1.05
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.95e+08	0.52 y	33:40	-	1.17
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.36e+08	0.52 y	33:48	-	1.43
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.14e+08	0.52 y	34:24	-	1.29
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.79e+08	0.53 y	35:20	-	1.08
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.45e+08	0.45 y	37:07	-	0.88
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.18e+08	0.43 y	39:03	-	0.71
51	IS	13C-OCDF	200.00	2.80e+08	0.88 y	42:02	-	0.84

52	C/Up	37C1-2,3,7,8-TCDD	2.00	2.38e+06		26:33	-	0.74
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.61e+08	0.80 y	25:54	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.27e+08	0.79 y	24:19	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.66e+08	1.26 y	34:57	-	1.00

Filename: 060322C1 S: 6 Acquired: 22-MAR-06 13:41:25
 Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06 Results:
 Sample text: ST060322C1-5 1613 CS4 060110I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	6.96e+07	0.78 y	26:33	- 1.19
2	Unk	1,2,3,7,8-PeCDD	200.00	3.19e+08	0.64 y	31:16	- 1.12
3	Unk	1,2,3,4,7,8-HxCDD	200.00	2.97e+08	1.24 y	34:33	- 1.24
4	Unk	1,2,3,6,7,8-HxCDD	200.00	3.27e+08	1.25 y	34:40	- 1.13
5	Unk	1,2,3,7,8,9-HxCDD	200.00	3.27e+08	1.24 y	34:57	- 1.23
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	2.90e+08	1.03 y	38:31	- 1.14
7	Unk	OCDD	400.00	4.99e+08	0.91 y	41:47	- 1.15
8	Unk	2,3,7,8-TCDF	40.00	8.69e+07	0.76 y	25:42	- 1.15
9	Unk	1,2,3,7,8-PeCDF	200.00	4.43e+08	1.54 y	30:01	- 1.08
10	Unk	2,3,4,7,8-PeCDF	200.00	4.46e+08	1.54 y	30:58	- 1.10
11	Unk	1,2,3,4,7,8-HxCDF	200.00	4.16e+08	1.22 y	33:40	- 1.25
12	Unk	1,2,3,6,7,8-HxCDF	200.00	4.97e+08	1.23 y	33:48	- 1.26
13	Unk	2,3,4,6,7,8-HxCDF	200.00	4.54e+08	1.22 y	34:24	- 1.27
14	Unk	1,2,3,7,8,9-HxCDF	200.00	3.74e+08	1.25 y	35:20	- 1.21
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	3.99e+08	1.02 y	37:06	- 1.43
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	3.35e+08	1.03 y	39:03	- 1.45
17	Unk	OCDF	400.00	5.50e+08	0.87 y	41:59	- 0.97
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 1.19
19	Tot	TCDD EMPC	0.00	-	- n	-	- 1.19
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.12
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.12
22	Tot	Total Hexa-Dioxins	0.00	-	- n	-	- 1.20
23	Tot	HxCDD EMPC	0.00	-	- n	-	- 1.20
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	-	- 1.09
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	-	- 1.25
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.25
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.44
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.44
36	IS	13C-2,3,7,8-TCDD	100.00	1.46e+08	0.79 y	26:31	- 1.05
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.43e+08	0.65 y	31:14	- 1.03
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.20e+08	1.25 y	34:32	- 0.83
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.44e+08	1.26 y	34:39	- 1.00

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.28e+08	1.06 y	38:30	-	0.89
41	IS	13C-OCDD	200.00	2.16e+08	0.91 y	41:46	-	0.75
42	IS	13C-2,3,7,8-TCDF	100.00	1.89e+08	0.80 y	25:41	-	0.93
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.05e+08	1.60 y	30:01	-	1.01
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.04e+08	1.58 y	30:57	-	1.00
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.67e+08	0.52 y	33:39	-	1.15
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.98e+08	0.52 y	33:47	-	1.37
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.78e+08	0.52 y	34:23	-	1.23
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.54e+08	0.54 y	35:19	-	1.07
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.39e+08	0.44 y	37:05	-	0.96
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.16e+08	0.44 y	39:03	-	0.80
51	IS	13C-OCDF	200.00	2.83e+08	0.90 y	41:59	-	0.98

52	C/Up	37C1-2,3,7,8-TCDD	40.00	4.40e+07		26:32	-	0.79
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.39e+08	0.79 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.03e+08	0.78 y	24:18	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.44e+08	1.27 y	34:57	-	1.00

Filename: 060322C1 S: 7 Acquired: 22-MAR-06 14:31:06

Run: 060322C1 Analyte: Cal: 1613VG5-3-22-06

Results:

Sample text: ST060322C1-6 1613 CSS 060110J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	200.00	3.53e+08	0.78 y	26:32	- 0.95
2	Unk	1,2,3,7,8-PeCDD	1000.00	1.80e+09	0.63 y	31:16	- 1.01
3	Unk	1,2,3,4,7,8-HxCDD	1000.00	1.85e+09	1.26 y	34:34	- 1.13
4	Unk	1,2,3,6,7,8-HxCDD	1000.00	1.89e+09	1.27 y	34:41	- 0.94
5	Unk	1,2,3,7,8,9-HxCDD	1000.00	1.96e+09	1.25 y	34:58	- 1.07
6	Unk	1,2,3,4,6,7,8-HpCDD	1000.00	1.56e+09	1.05 y	38:32	- 0.88
7	Unk	OCDD	2000.00	3.39e+09	0.90 y	41:52	- 1.02
8	Unk	2,3,7,8-TCDF	200.00	4.37e+08	0.78 y	25:42	- 0.92
9	Unk	1,2,3,7,8-PeCDF	1000.00	2.42e+09	1.54 y	30:02	- 0.95
10	Unk	2,3,4,7,8-PeCDF	1000.00	2.45e+09	1.55 y	30:59	- 0.97
11	Unk	1,2,3,4,7,8-HxCDF	1000.00	2.31e+09	1.26 y	33:41	- 1.08
12	Unk	1,2,3,6,7,8-HxCDF	1000.00	2.78e+09	1.23 y	33:49	- 1.09
13	Unk	2,3,4,6,7,8-HxCDF	1000.00	2.75e+09	1.24 y	34:25	- 1.14
14	Unk	1,2,3,7,8,9-HxCDF	1000.00	2.30e+09	1.24 y	35:21	- 1.07
15	Unk	1,2,3,4,6,7,8-HpCDF	1000.00	2.38e+09	1.02 y	37:06	- 1.28
16	Unk	1,2,3,4,7,8,9-HpCDF	1000.00	2.07e+09	1.02 y	39:06	- 1.27
17	Unk	OCDF	2000.00	3.87e+09	0.88 y	42:04	- 0.90
18	Tot	Total Tetra-Dioxins	0.00	-	- n	-	- 0.95
19	Tot	TCDD EMPC	0.00	-	- n	-	- 0.95
20	Tot	Total Penta-Dioxins	0.00	-	- n	-	- 1.01
21	Tot	PeCDD EMPC	0.00	-	- n	-	- 1.01
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	-	- 0.88
25	Tot	HpCDD EMPC	0.00	-	- n	-	- 0.88
26	Tot	Total Tetra-Furans	0.00	-	- n	-	- 0.92
27	Tot	TCDF EMPC	0.00	-	- n	-	- 0.92
28	Tot	1st Func. Penta-Furans	0.00	-	- n	-	- 0.96
29	Tot	1st Func. PeCDF EMPC	0.00	-	- n	-	- 0.96
30	Tot	Total Penta-Furans	0.00	-	- n	-	- 0.96
31	Tot	PeCDF EMPC	0.00	-	- n	-	- 0.96
32	Tot	Total Hexa-Furans	0.00	-	- n	-	- 1.10
33	Tot	HxCDF EMPC	0.00	-	- n	-	- 1.10
34	Tot	Total Hepta-Furans	0.00	-	- n	-	- 1.27
35	Tot	HpCDF EMPC	0.00	-	- n	-	- 1.27
36	IS	13C-2,3,7,8-TCDD	100.00	1.85e+08	0.79 y	26:31	- 1.12
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.78e+08	0.64 y	31:15	- 1.07
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.64e+08	1.27 y	34:33	- 0.84
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.02e+08	1.28 y	34:40	- 1.04

40	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.78e+08	1.06 y	38:31	-	0.91
41	IS	13C-OCDD	200.00	3.32e+08	0.90 y	41:51	-	0.85
42	IS	13C-2,3,7,8-TCDF	100.00	2.38e+08	0.79 y	25:41	-	0.92
43	IS	13C-1,2,3,7,8-PeCDF	100.00	2.54e+08	1.60 y	30:01	-	0.99
44	IS	13C-2,3,4,7,8-PeCDF	100.00	2.52e+08	1.61 y	30:58	-	0.98
45	IS	13C-1,2,3,4,7,8-HxCDF	100.00	2.15e+08	0.54 y	33:40	-	1.10
46	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.55e+08	0.52 y	33:48	-	1.31
47	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.41e+08	0.53 y	34:24	-	1.23
48	IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.14e+08	0.53 y	35:20	-	1.10
49	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.86e+08	0.44 y	37:06	-	0.95
50	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.64e+08	0.45 y	39:05	-	0.84
51	IS	13C-OCDF	200.00	4.31e+08	0.89 y	42:03	-	1.10

52	C/Up	37C1-2,3,7,8-TCDD	200.00	2.64e+08		26:32	-	0.80
53	RS/RT	13C-1,2,3,4-TCDD	100.00	1.66e+08	0.80 y	25:53	-	1.00
54	RS	13C-1,2,3,4-TCDF	100.00	2.57e+08	0.78 y	24:17	-	1.00
55	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.95e+08	1.25 y	34:57	-	1.00

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060322C1-1

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

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	0.78	0.65-0.89	y	10.00	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.54-0.72	y	48.4	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	50.1	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	46.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	50.2	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	98.4	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.64	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.1	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	48.2	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.4	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.9	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	47.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	48.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.7	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	96.7	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: MSDate: 3/23/06

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)	
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	104	82.0 - 121.0 85.0 - 117.0 (5)	(1) See Table 8, Method 1613, for m/z specifications.
13C-1,2,3,7,8-PeCDD	M+2/M+4	0.65	0.54-0.72	y	104	62.0 - 160.0	(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	95.4	85.0 - 117.0	(3) Contract-required concentration range, as specified in Table 6, Method 1613.
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	104	85.0 - 118.0	(4) No ion abundance ratio; report concentration found.
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	97.4	72.0 - 138.0	(5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only.
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	194	96.0 - 415.0	
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	107	71.0 - 140.0 76.0 - 131.0 (5)	
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	107	76.0 - 130.0	
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	107	77.0 - 130.0	
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	97.8	76.0 - 131.0	
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	70.0 - 143.0	
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.9	73.0 - 137.0	
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	101	74.0 - 135.0	
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	100	78.0 - 129.0	
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	96.5	77.0 - 129.0	
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	198	96.0 - 415.0	Analyst: <u>vm</u>
CLEANUP STANDARD (4)							Date: <u>3/22/06</u>
37Cl-2,3,7,8-TCDD					10.1	7.9 - 12.7 8.3 - 12.1 (5)	

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory

Episode No.:

CCAL ID: ST060322C1-1

Contract No.:

SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	10.00	8.00 - 12.0
1,2,3,7,8-PeCDD	M+2/M+4	0.63	0.54-0.72	y	48.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	50.1	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	46.3	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.6	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	50.2	40.0 - 60.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	98.4	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.64	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	49.1	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	48.2	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.4	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.9	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	47.9	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	48.3	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	48.7	40.0 - 60.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	96.7	80.0 - 120

Analyst: miDate: 3/23/06

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

LABELLED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	104	70.0 - 130
13C-1,2,3,7,8-PeCDD	M+2/M+4	0.65	0.54-0.72	y	104	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	95.4	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	104	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	97.4	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	194	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	107	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	107	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	107	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	97.8	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	102	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.9	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	101	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	100	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	96.5	70.0 - 130
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	198	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					10.1	7.00 - 13.0

Analyst: RMDate: 3/23/06

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-5 Initial Calibration Date: 3/22/06

RT Window Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

DB-5 IS Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

DB_225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:44	1,3,6,8-TCDF (F)	20:32
1,2,8,9-TCDD (L)	27:27	1,2,8,9-TCDF (L)	27:36
1,2,4,7,9-PeCDD (F)	29:08	1,3,4,6,8-PeCDF (F)	27:31
1,2,3,8,9-PeCDD (L)	31:39	1,2,3,8,9-PeCDF (L)	31:53
1,2,4,6,7,9-HxCDD (F)	33:03	1,2,3,4,6,8-HxCDF (F)	32:31
1,2,3,7,8,9-HxCDD (L)	34:58	1,2,3,7,8,9-HxCDF (L)	35:21
1,2,3,4,6,7,9-HpCDD (F)	37:31	1,2,3,4,6,7,8-HpCDF (F)	37:07
1,2,3,4,6,7,8-HpCDD (L)	38:31	1,2,3,4,7,8,9-HpCDF (L)	39:04

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5).

=====

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: AM

Date: 3/23/06

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5

GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
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
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	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-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.025	0.976-1.043
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.026	0.989-1.052
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.160	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.197	1.011-1.526
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.208	1.000-1.567

Analyst: YH

Date: 3/23/06

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Alta Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/22/06

Instrument ID: VG-5 GC Column ID: DB-5

VER Data Filename: 060322C1 S#1 Analysis Date: 22-MAR-06 Time: 09:32:59

Compounds Using 13C-123789-HxCDD as Internal Standard

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	1.001	0.999-1.001	
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001	
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004	
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.009	1.000-1.019	
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	1.001	0.999-1.001	
OCDF	13C-OCDF	1.006	0.999-1.008	

(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-1,2,3,7,8,9-HxCDD	0.963	0.944-0.970
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.967	0.949-0.975
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,7,8,9-HxCDD	0.984	0.959-1.021
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDD	1.011	0.977-1.047
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.988	0.977-1.000
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.991	0.981-1.003
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.061	1.043-1.085
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,7,8,9-HxCDD	1.101	1.086-1.110
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,7,8,9-HxCDD	1.117	1.057-1.151
13C-OCDD	13C-1,2,3,7,8,9-HxCDD	1.195	1.032-1.311
13C-OCDF	13C-1,2,3,7,8,9-HxCDD	1.201	1.032-1.311

Analyst: AM

Date: 3/23/06

Client ID: 1613 CS3 060110H
Lab ID: ST060322C1-1

Filename: 060322C1
GC Column ID: db-5

S:1 Acq:22-MAR-06 09:32:59
ICal: 1613VG5-3-22-06 wt/vol: 1.000

ConCal: NA
EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.79e+07	0.78 y	1.08	26:33	9.9986	*	2.5	*	*	Total Tetra-Dioxins	52.364	52.641	*	*	*
1,2,3,7,8-PeCDD	7.94e+07	0.63 y	1.03	31:17	48.413	*	2.5	*	*	Total Penta-Dioxins	143.45	143.74	*	*	*
1,2,3,4,7,8-HxCDD	7.27e+07	1.23 y	1.13	34:34	50.100	*	2.5	*	*	Total Hexa-Dioxins	202.96	203.37	*	*	*
1,2,3,6,7,8-HxCDD	8.37e+07	1.27 y	1.03	34:41	46.322	*	2.5	*	*	Total Hepta-Dioxins	100.70	101.63	*	*	*
1,2,3,7,8,9-HxCDD	8.40e+07	1.24 y	1.12	34:58	49.626	*	2.5	*	*	Total Tetra-Furans	30.189	30.289	*	*	*
1,2,3,4,6,7,8-HpCDD	6.84e+07	1.03 y	1.02	38:31	50.200	*	2.5	*	*	Total Penta-Furans	181.82	182.98	*	*	*
OCDD	1.16e+08	0.90 y	1.06	41:47	98.413	*	2.5	*	*	Total Hexa-Furans	243.28	244.86	*	*	*
2,3,7,8-TCDF	2.23e+07	0.77 y	1.06	25:42	9.6429	*	2.5	*	*	Total Hepta-Furans	97.658	99.281	*	*	*
1,2,3,7,8-PeCDF	1.15e+08	1.55 y	1.01	30:03	49.145	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.15e+08	1.55 y	1.02	30:59	48.157	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	9.97e+07	1.23 y	1.15	33:41	48.028	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.27e+08	1.24 y	1.14	33:49	48.373	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.14e+08	1.24 y	1.17	34:25	47.928	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	9.32e+07	1.25 y	1.10	35:21	47.854	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	9.59e+07	1.01 y	1.31	37:07	48.348	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	7.72e+07	1.02 y	1.33	39:04	48.679	*	2.5	*	*						
OCDF	1.33e+08	0.89 y	0.91	42:00	96.741	*	2.5	*	*						
IS 13C-2,3,7,8-TCDD	1.66e+08	0.78 y	1.09	26:31	103.84					Rec	Qual				
IS 13C-1,2,3,7,8-PeCDD	1.59e+08	0.65 y	1.04	31:16	104.12					104					
IS 13C-1,2,3,4,7,8-HxCDD	1.28e+08	1.25 y	0.83	34:33	95.383					104					
IS 13C-1,2,3,6,7,8-HxCDD	1.75e+08	1.26 y	1.04	34:40	104.17					95.4					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.34e+08	1.07 y	0.85	38:30	97.436					104					
IS 13C-OCDD	2.24e+08	0.89 y	0.71	41:46	194.01					97.4					
IS 13C-2,3,7,8-TCDF	2.18e+08	0.79 y	0.96	25:41	106.62					97.0					
IS 13C-1,2,3,7,8-PeCDF	2.32e+08	1.59 y	1.02	30:02	106.81					107					
IS 13C-2,3,4,7,8-PeCDF	2.32e+08	1.61 y	1.02	30:59	106.66					107					
IS 13C-1,2,3,4,7,8-HxCDF	1.81e+08	0.52 y	1.14	33:40	97.782					107					
IS 13C-1,2,3,6,7,8-HxCDF	2.31e+08	0.54 y	1.40	33:48	101.93					97.8					
IS 13C-2,3,4,6,7,8-HxCDF	2.04e+08	0.54 y	1.26	34:24	99.872					102					
IS 13C-1,2,3,7,8,9-HxCDF	1.78e+08	0.53 y	1.08	35:20	101.23					99.9					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.51e+08	0.43 y	0.93	37:05	100.02					101					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.20e+08	0.44 y	0.77	39:04	96.454					100					
IS 13C-OCDF	3.02e+08	0.91 y	0.94	41:59	197.99					96.5					
C/Up 37C1-2,3,7,8-TCDD	1.15e+07		0.77	26:32	10.124					99.0					
RS/RT 13C-1,2,3,4-TCDD	1.47e+08	0.80 y	1.00	25:53	100.00										
RS 13C-1,2,3,4-TCDF	2.13e+08	0.78 y	1.00	24:18	100.00										
RS/RT 13C-1,2,3,7,8,9-HxCDD	1.62e+08	1.27 y	1.00	34:58	100.00										

Integrations Reviewed
by _____ by _____
Analyst: MJ Analyst: _____
Date: 3/23/06 Date: _____

Run: 060322C1

Analyte:

Cal: 1613VG5-3-22-06

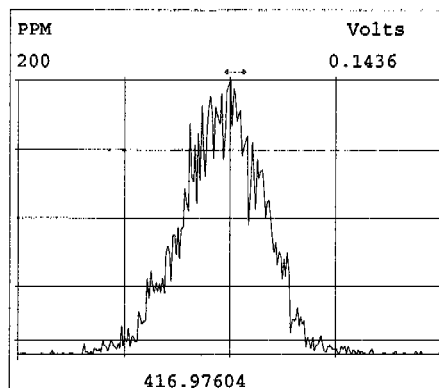
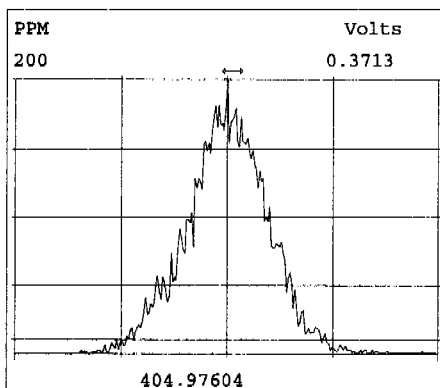
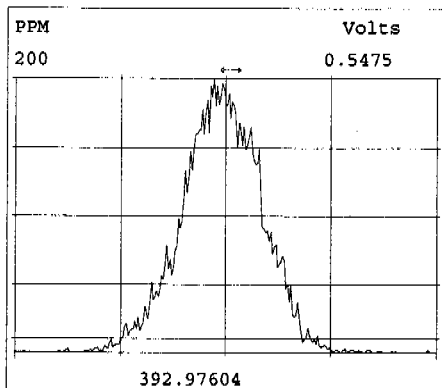
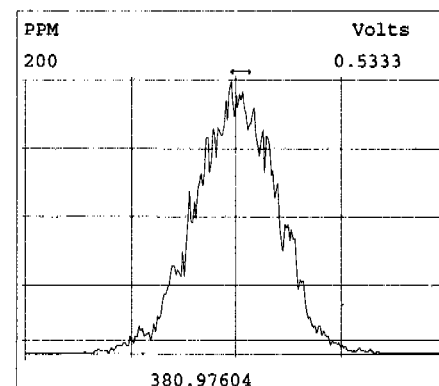
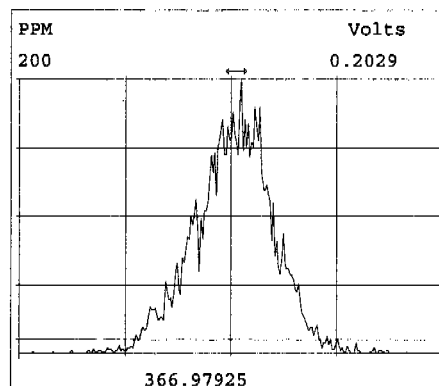
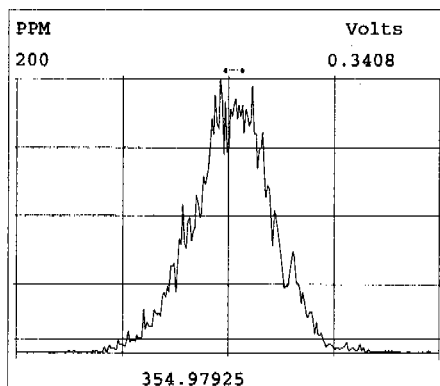
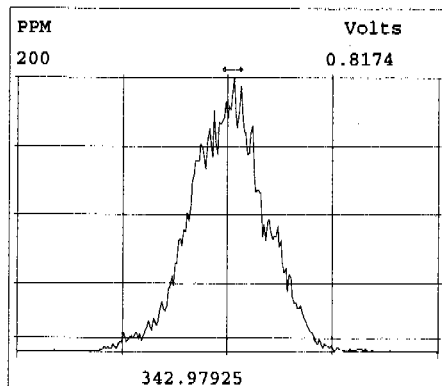
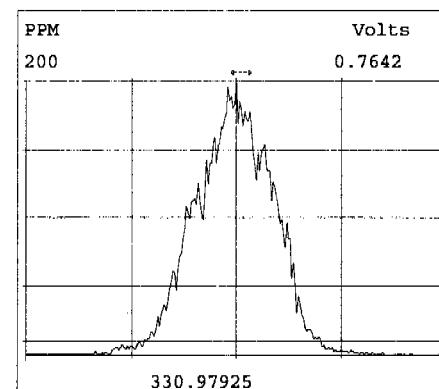
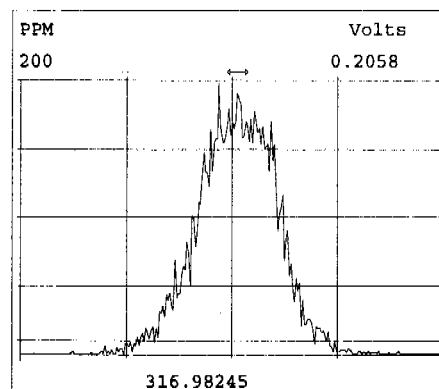
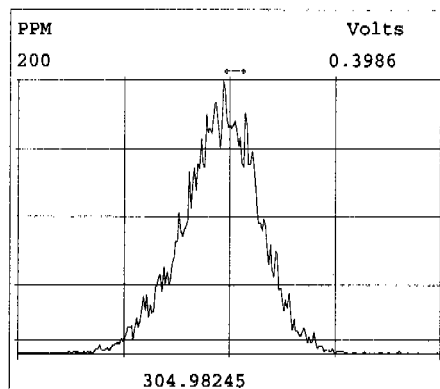
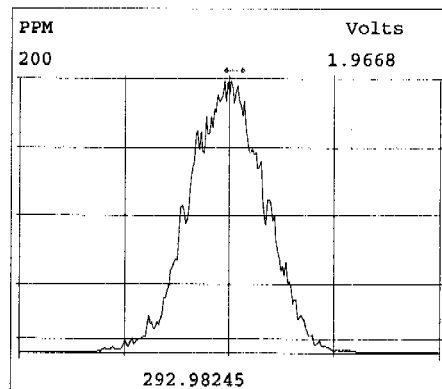
Inst. ID. VG-7

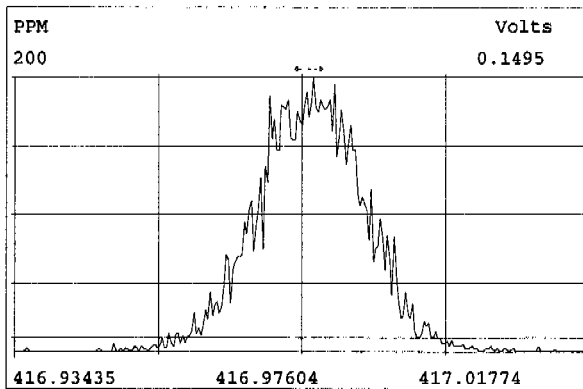
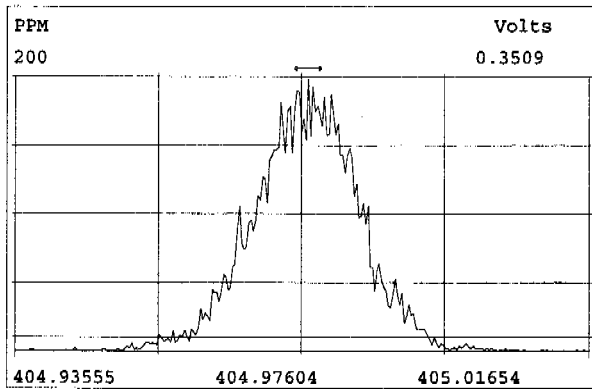
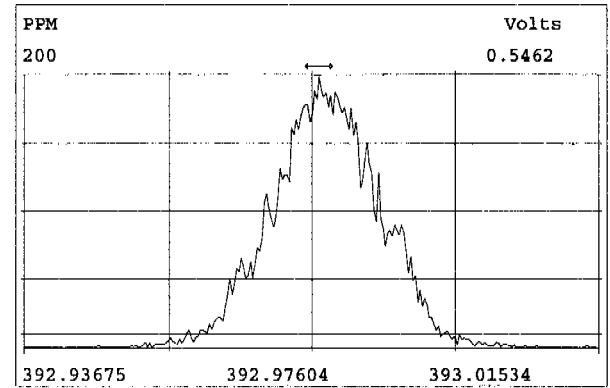
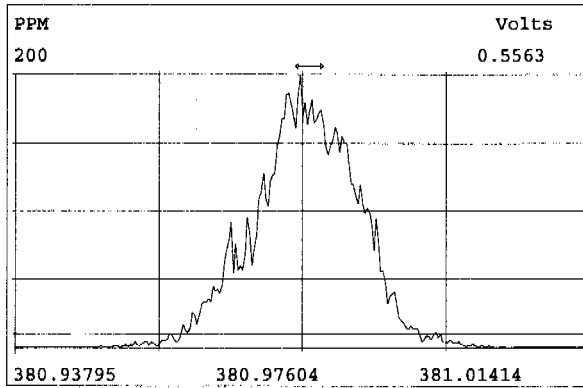
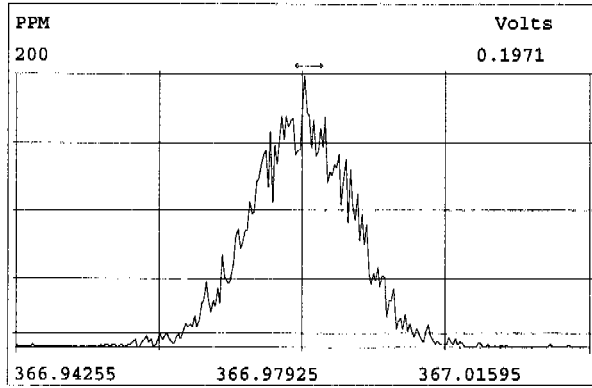
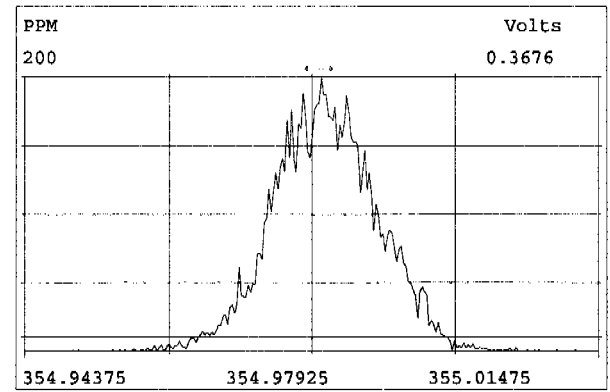
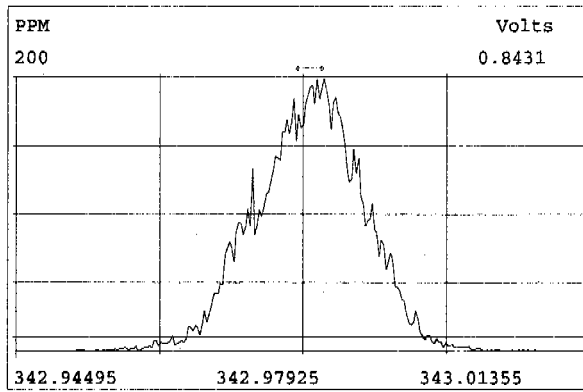
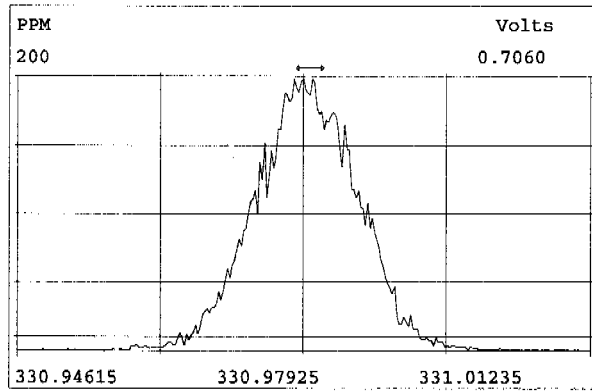
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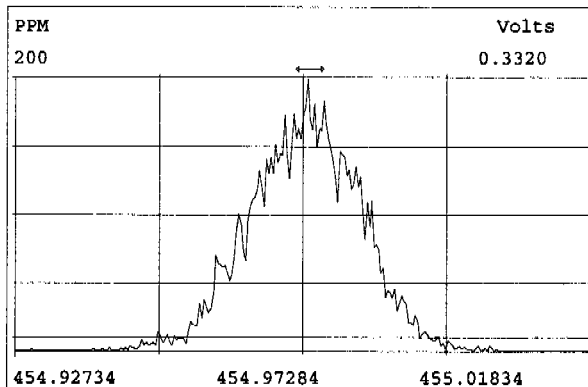
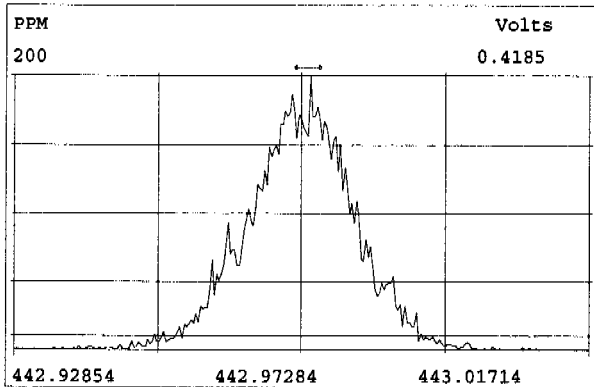
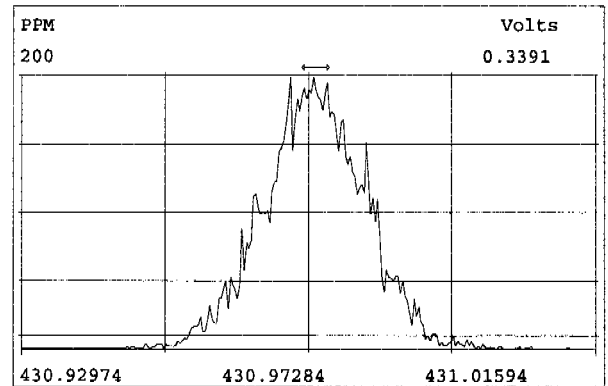
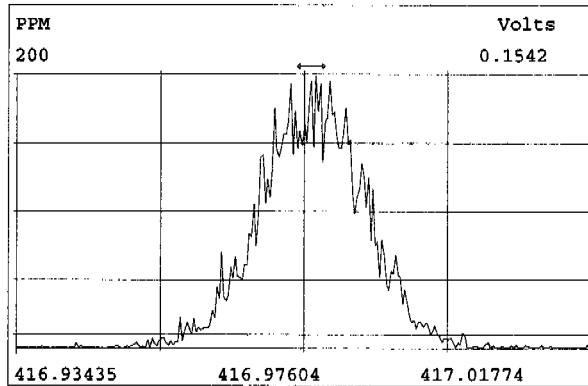
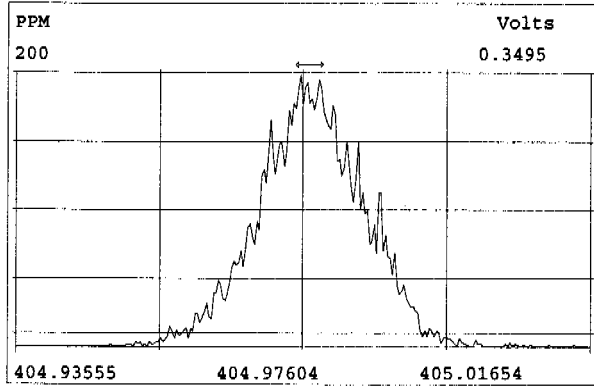
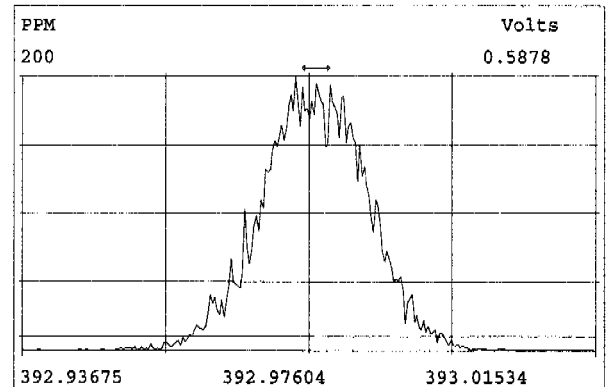
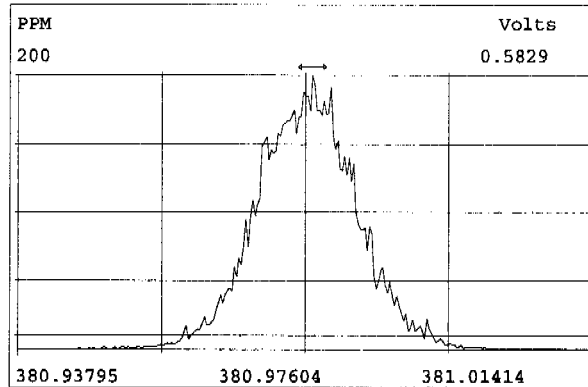
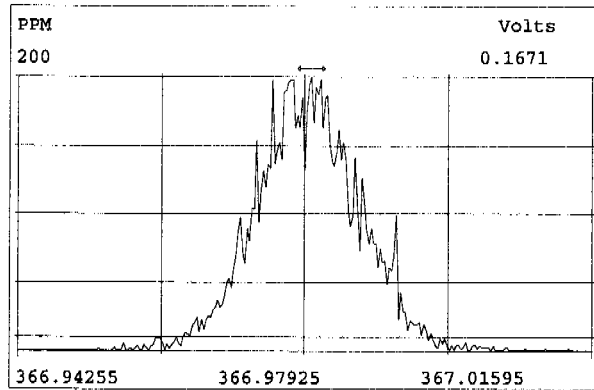
Name	RRT Limits		Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 7
	Lower	Upper	10	0.25	0.50	2.0	40	200
2,3,7,8-TCDD	0.999	-1.002	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999	-1.002	1.000	1.000	1.000	1.000	1.001	1.000
1,2,3,4,7,8-HxCDD	0.999	-1.001	1.000	1.001	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998	-1.004	1.000	1.000	1.001	1.000	1.000	1.000
1,2,3,7,8,9-HxCDD	1.000	-1.019	1.009	1.009	1.009	1.009	1.009	1.009
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	1.001	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	1.000	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	1.001	1.000	1.000	1.001	1.001	1.000
1,2,3,6,7,8-HxCDF	0.997	-1.005	1.000	1.000	1.000	1.000	1.001	1.001
2,3,4,6,7,8-HxCDF	0.999	-1.001	1.001	1.000	1.000	1.000	1.000	1.000
1,2,3,7,8,9-HxCDF	0.999	-1.001	1.000	1.000	1.001	1.000	1.001	1.000
1,2,3,4,6,7,8-HpCDF	0.999	-1.001	1.001	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999	-1.008	1.006	1.005	1.005	1.005	1.005	1.005
13C-2,3,7,8-TCDD	0.976	-1.043	1.025	1.025	1.024	1.025	1.024	1.024
13C-1,2,3,7,8-PeCDD	1.000	-1.567	1.208	1.208	1.207	1.207	1.207	1.208
13C-1,2,3,4,7,8-HxCDD	0.977	-1.000	0.988	0.988	0.988	0.988	0.988	0.988
13C-1,2,3,6,7,8-HxCDD	0.981	-1.003	0.991	0.992	0.991	0.992	0.992	0.992
13C-1,2,3,4,6,7,8-HpCDD	1.086	-1.110	1.101	1.102	1.102	1.102	1.102	1.102
13C-OCDD	1.032	-1.311	1.195	1.195	1.195	1.197	1.195	1.197
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	1.160	1.160	1.159	1.160	1.159	1.160
13C-2,3,4,7,8-PeCDF	1.011	-1.526	1.197	1.196	1.196	1.196	1.196	1.197
13C-1,2,3,4,7,8-HxCDF	0.944	-0.970	0.963	0.963	0.963	0.963	0.963	0.963
13C-1,2,3,6,7,8-HxCDF	0.949	-0.975	0.967	0.967	0.967	0.967	0.967	0.967
13C-2,3,4,6,7,8-HxCDF	0.959	-1.021	0.984	0.984	0.984	0.984	0.984	0.984
13C-1,2,3,7,8,9-HxCDF	0.977	-1.047	1.011	1.011	1.010	1.011	1.011	1.011
13C-1,2,3,4,6,7,8-HpCDF	1.043	-1.085	1.061	1.061	1.061	1.062	1.061	1.061
13C-1,2,3,4,7,8,9-HpCDF	1.057	-1.151	1.117	1.117	1.117	1.117	1.117	1.118
13C-OCDF	1.032	-1.311	1.201	1.201	1.201	1.203	1.201	1.203
37C1-2,3,7,8-TCDD	0.989	-1.052	1.026	1.025	1.025	1.025	1.025	1.026
13C-1,2,3,4-TCDD	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.923	-1.103	*	*	*	*	*	*
13C-1,2,3,7,8,9-HxCDD	0.000	-0.000	*	*	*	*	*	*

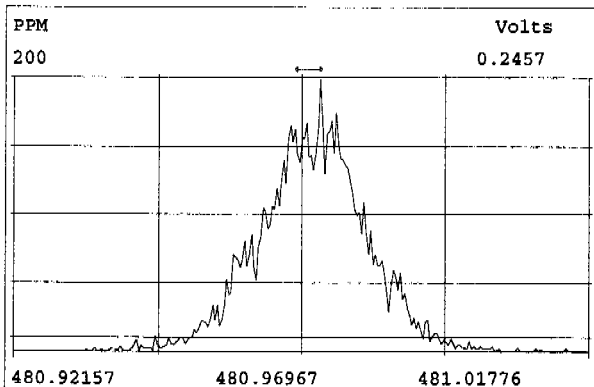
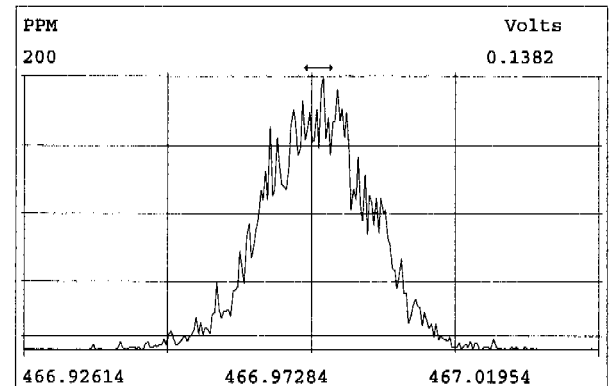
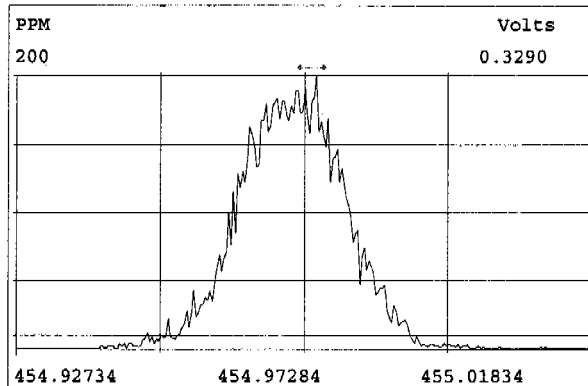
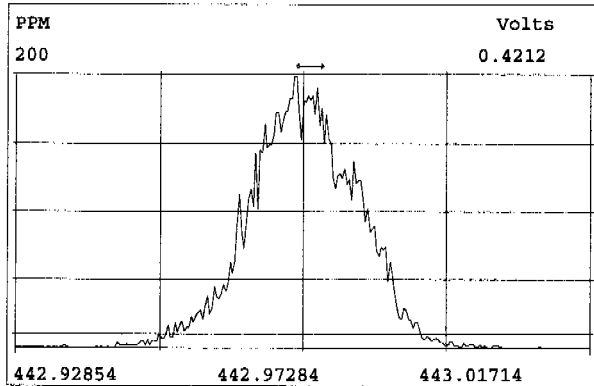
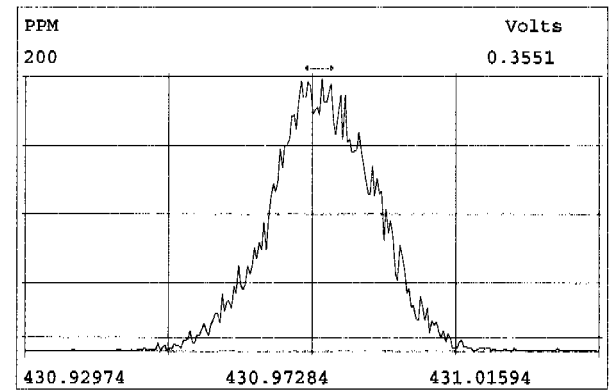
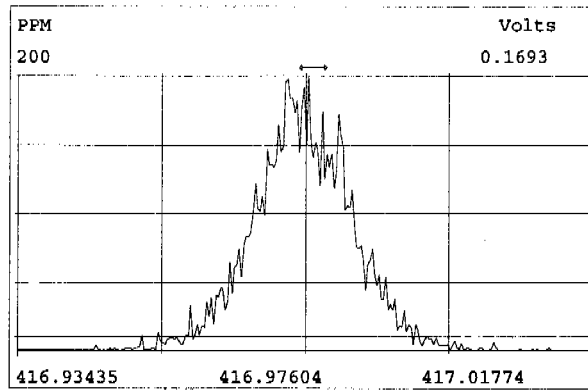
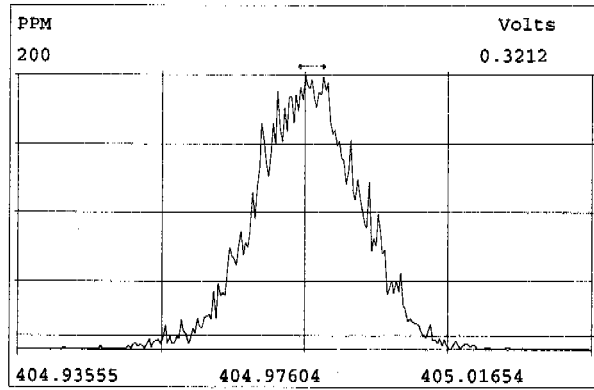
Alta Analytical Laboratory - Injection Log Run file: 060322C1 Instrument ID: VG-5 GC Column ID: db-5

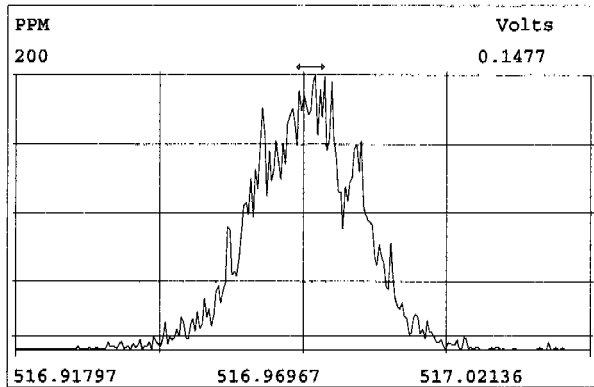
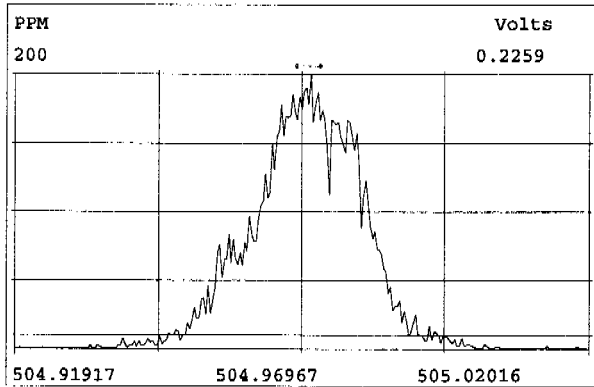
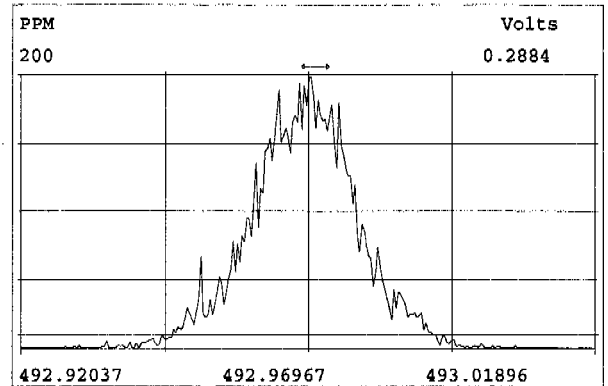
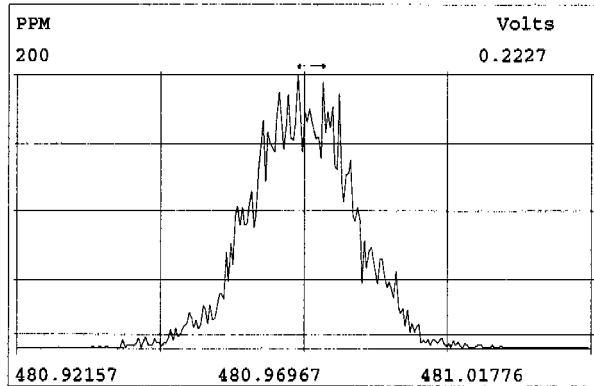
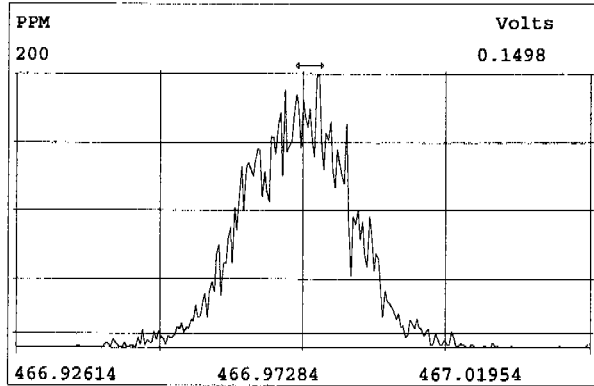
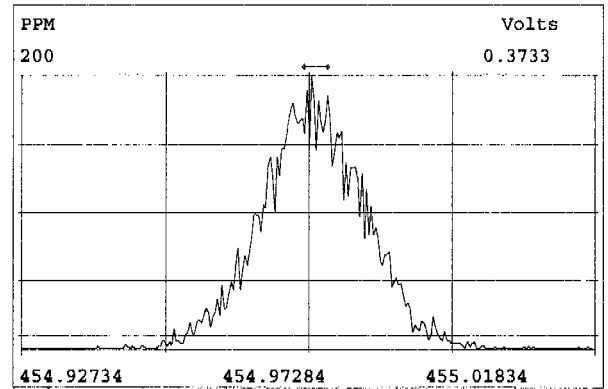
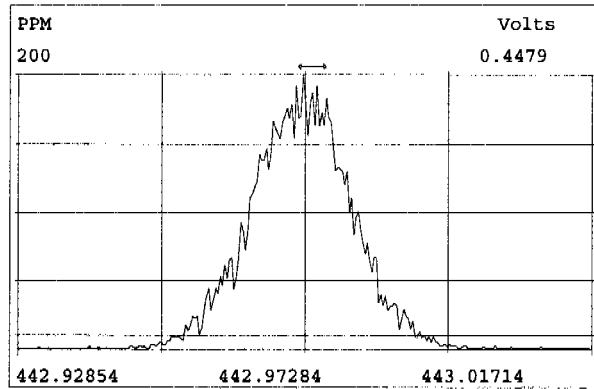
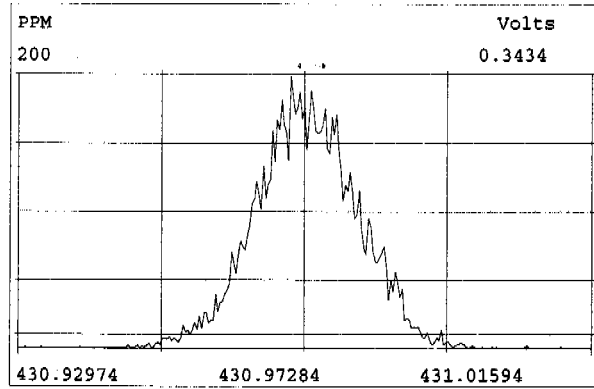
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
060322C1	1	ST060322C1-1	MAS	22-MAR-06	09:32:59	NA	NA
060322C1	2	SOLVENT BLANK	MAS	22-MAR-06	10:22:37	NA	NA
060322C1	3	ST060322C1-2	MAS	22-MAR-06	11:12:17	NA	NA
060322C1	4	ST060322C1-3	MAS	22-MAR-06	12:02:01	NA	NA
060322C1	5	ST060322C1-4	MAS	22-MAR-06	12:51:46	NA	NA
060322C1	6	ST060322C1-5	MAS	22-MAR-06	13:41:25	NA	NA
060322C1	7	ST060322C1-6	MAS	22-MAR-06	14:31:06	NA	NA
060322C1	8	SOLVENT BLANK	MAS	22-MAR-06	15:20:45	NA	NA
060322C1	9	SS060322C1-1	MAS	22-MAR-06	16:10:24	NA	NA



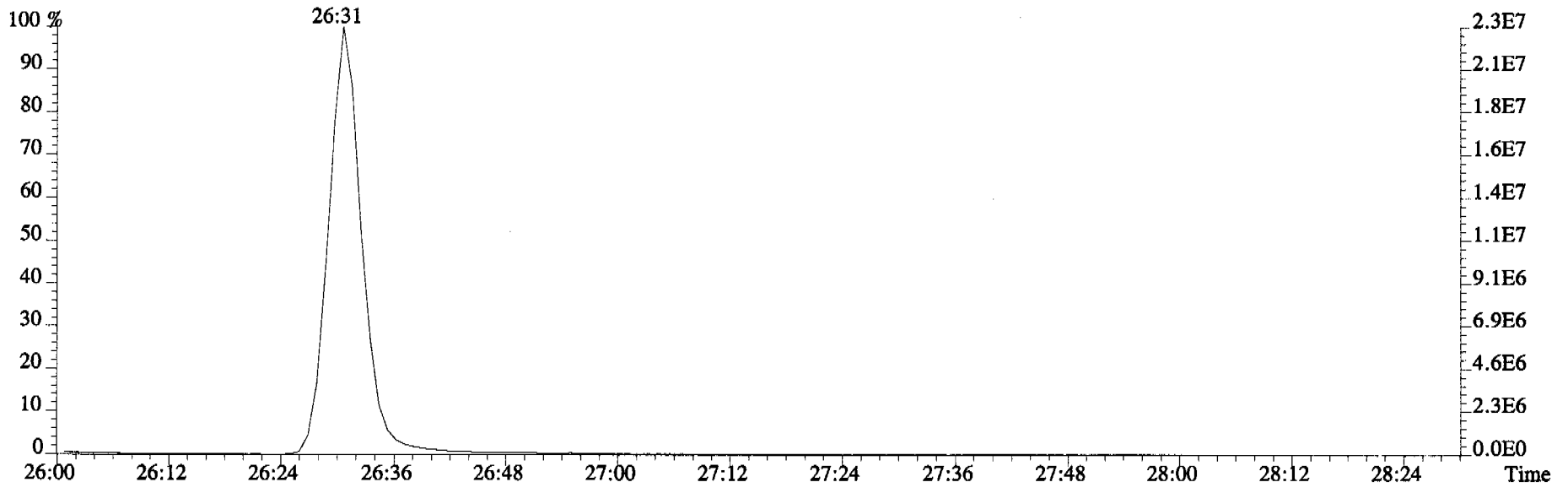
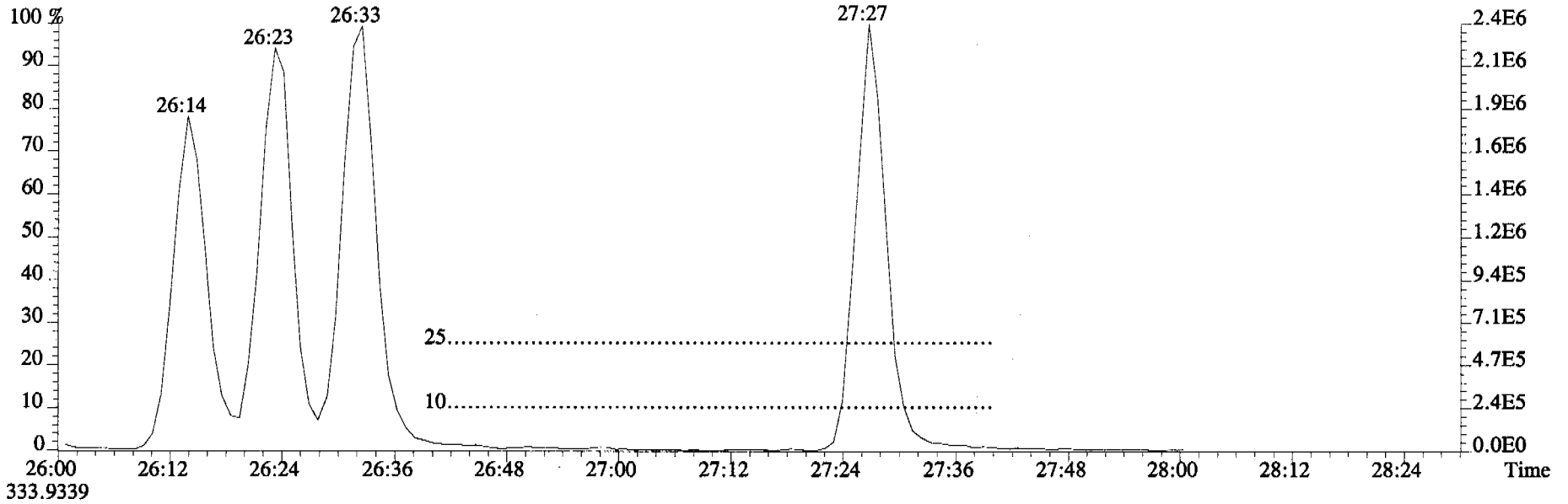




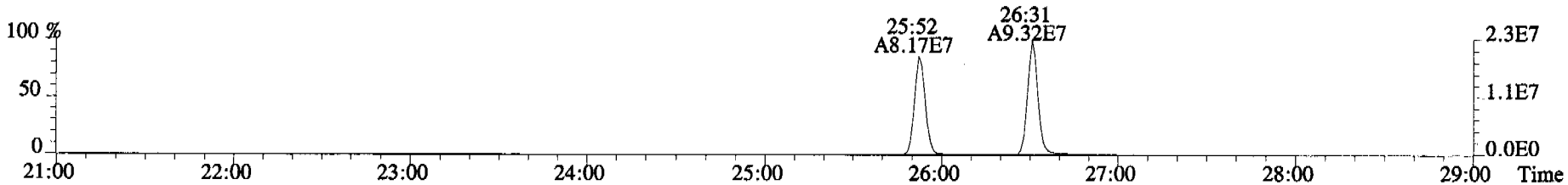
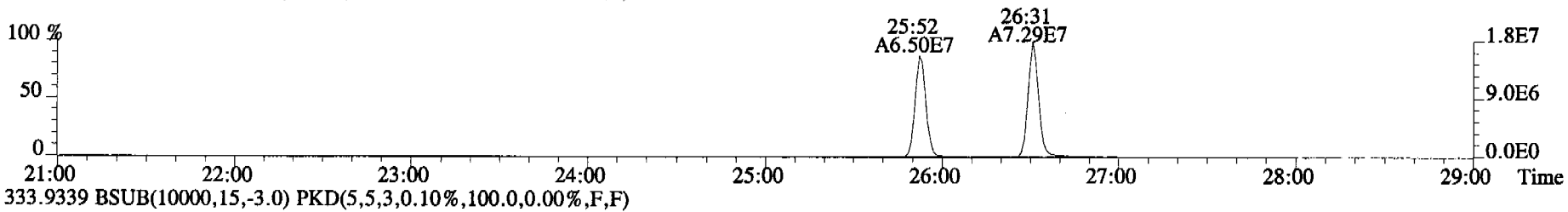
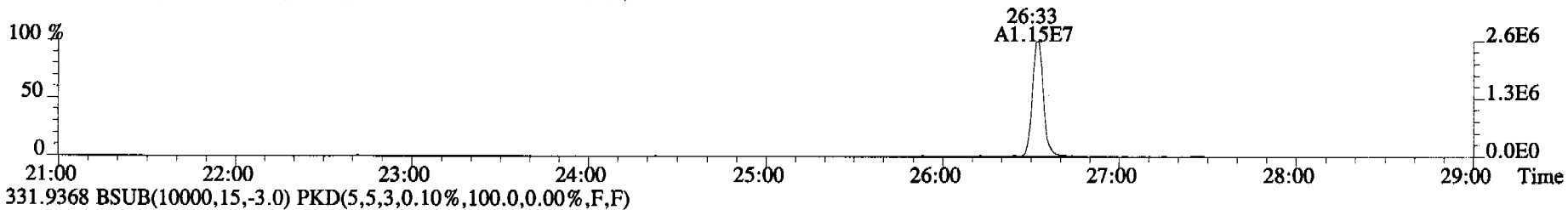
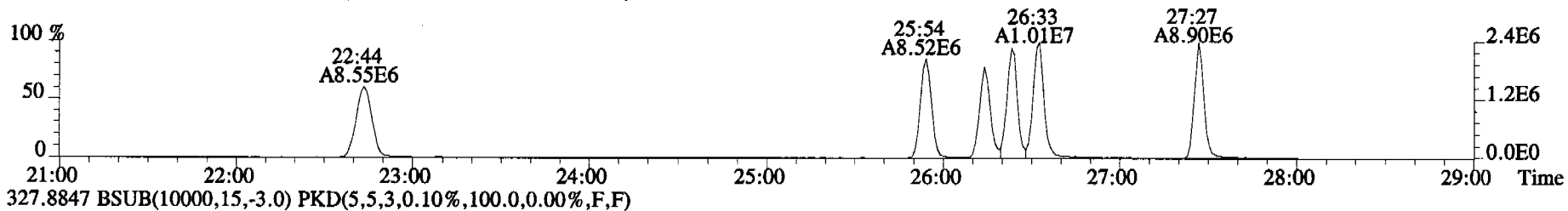
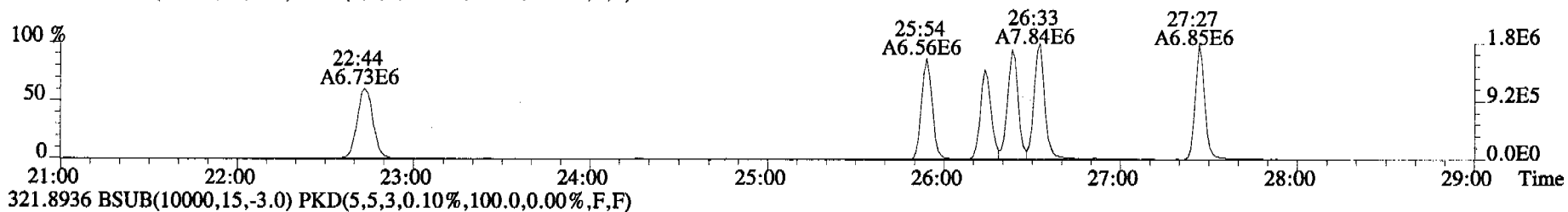




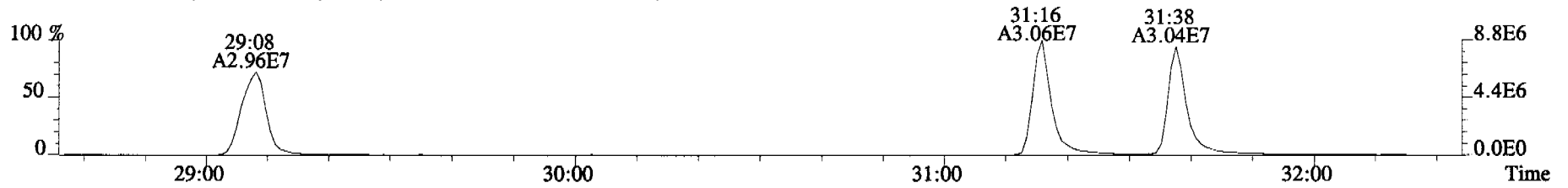
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
321.8936



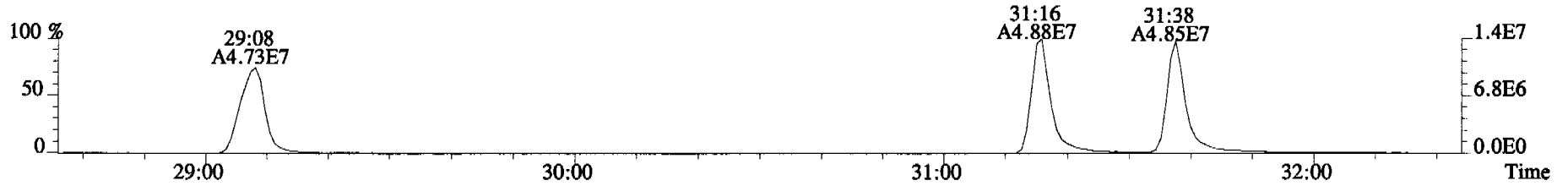
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



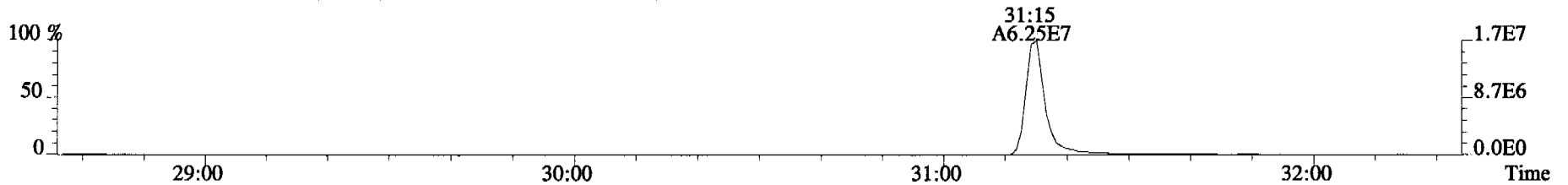
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



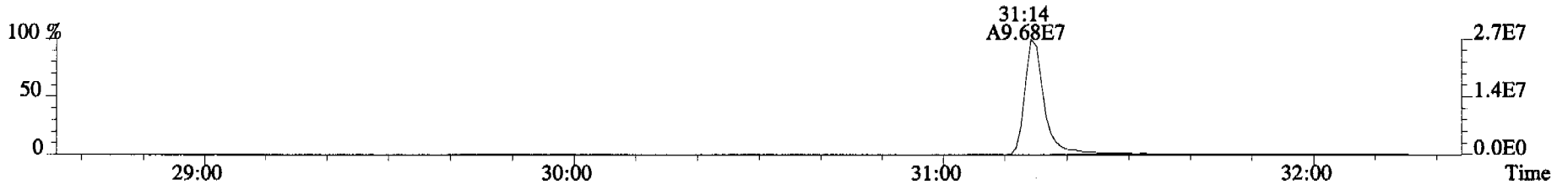
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



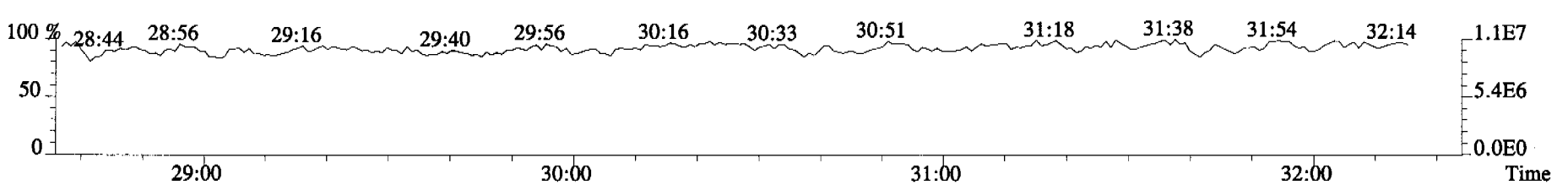
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



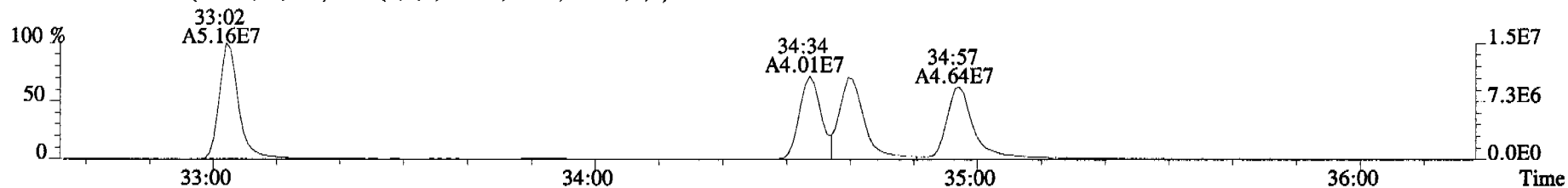
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



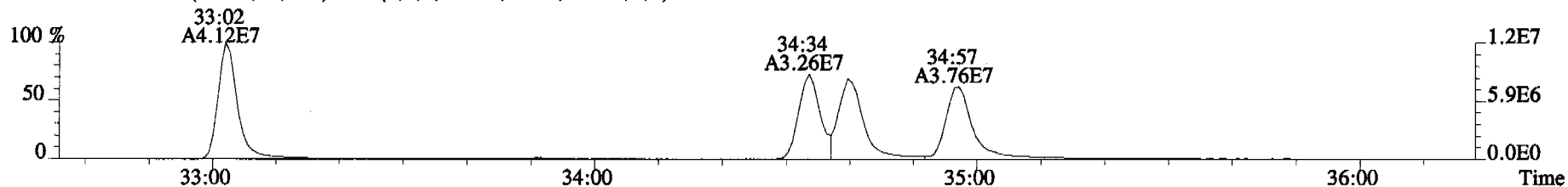
366.9792 F:2



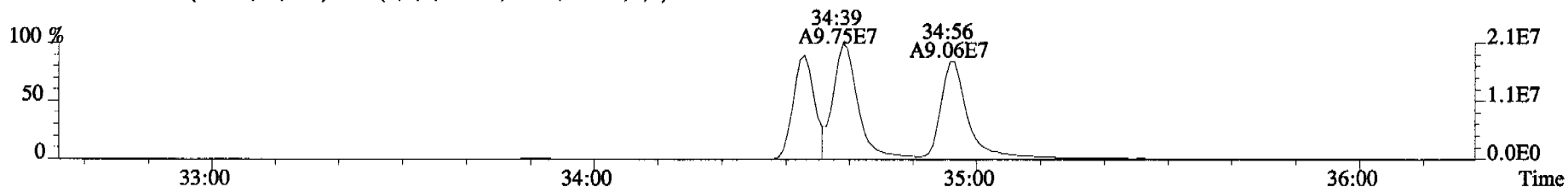
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



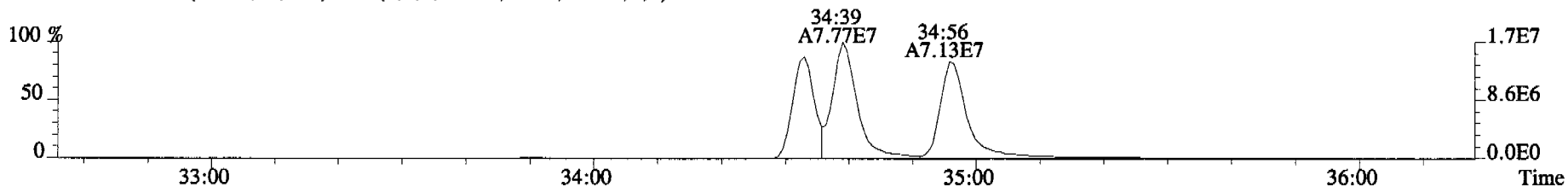
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



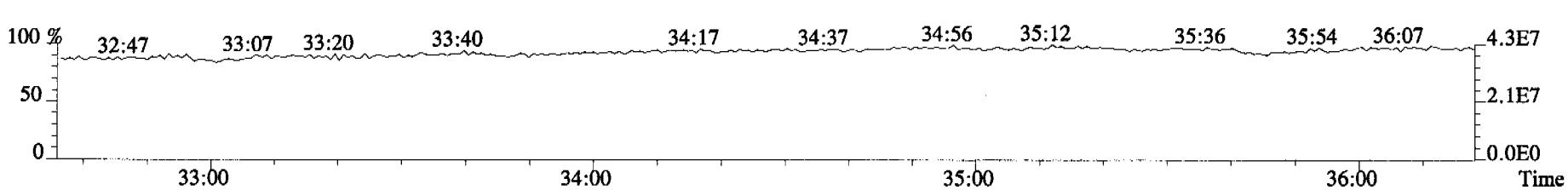
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



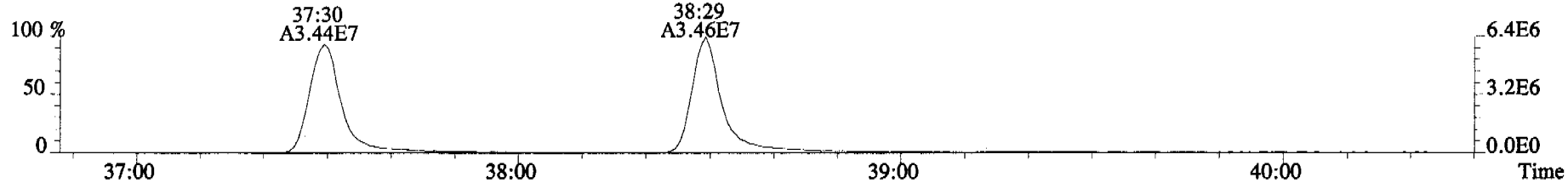
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



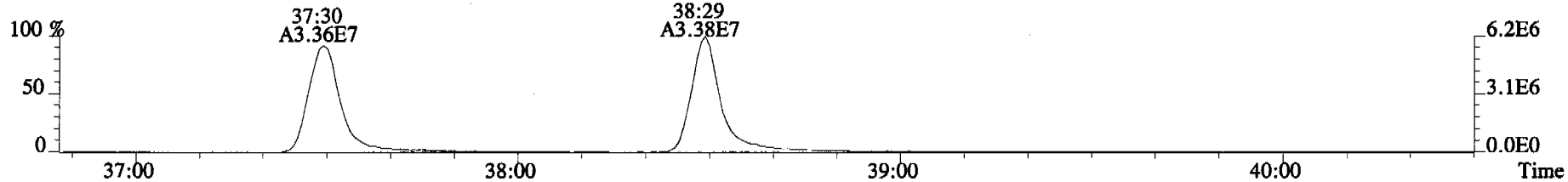
380.9760 F:3



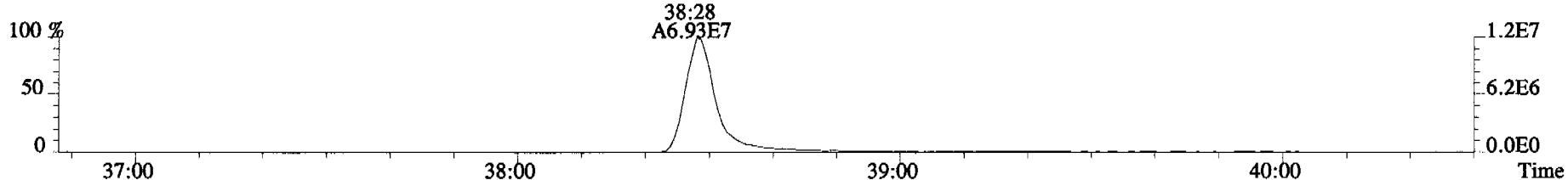
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



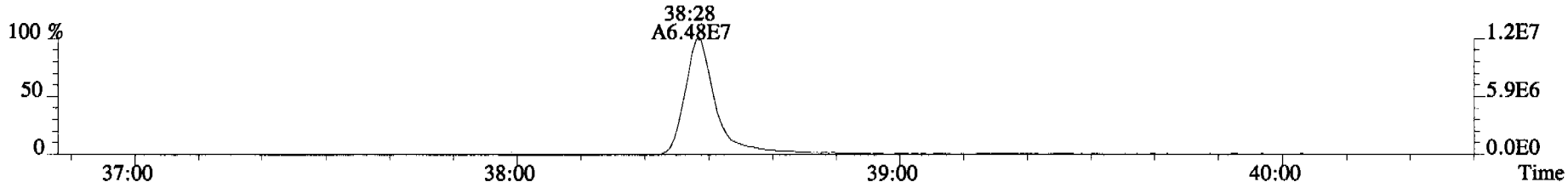
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



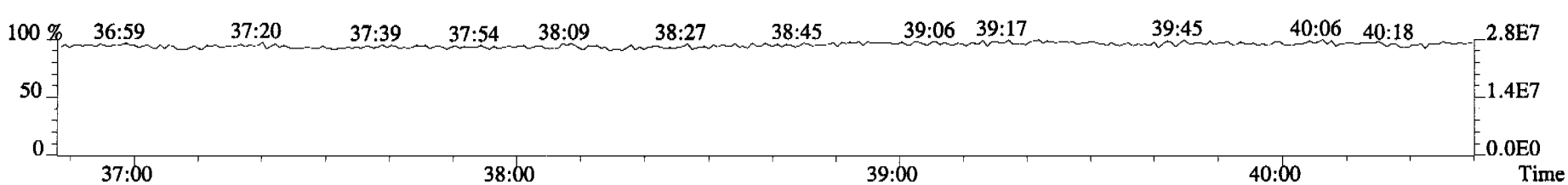
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



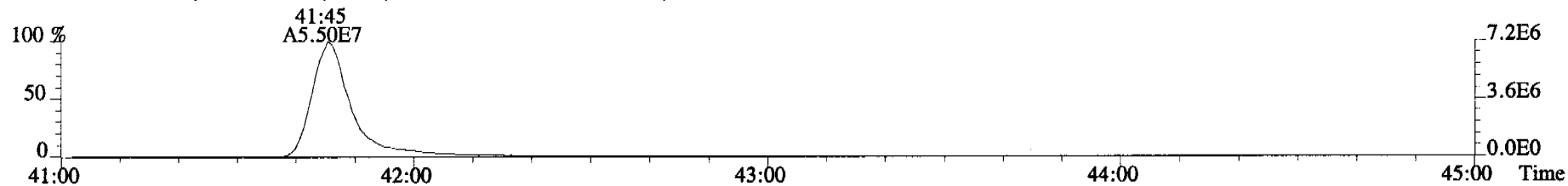
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



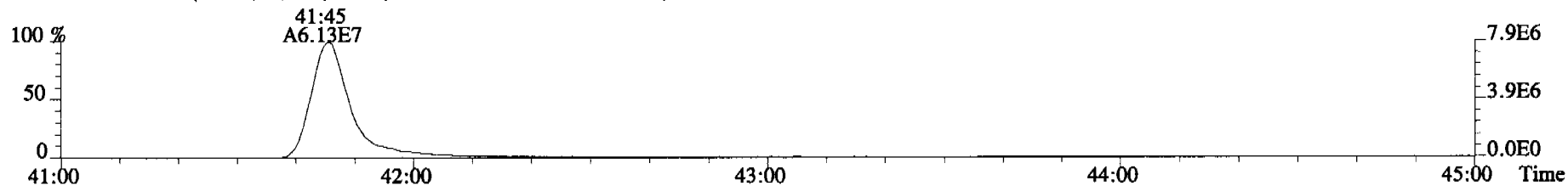
430.9728 F:4



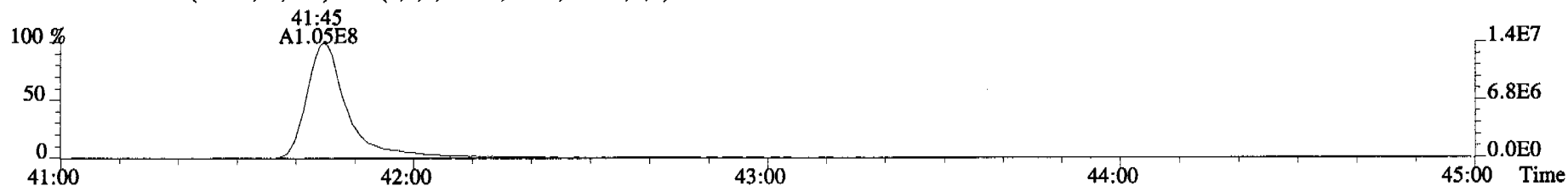
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



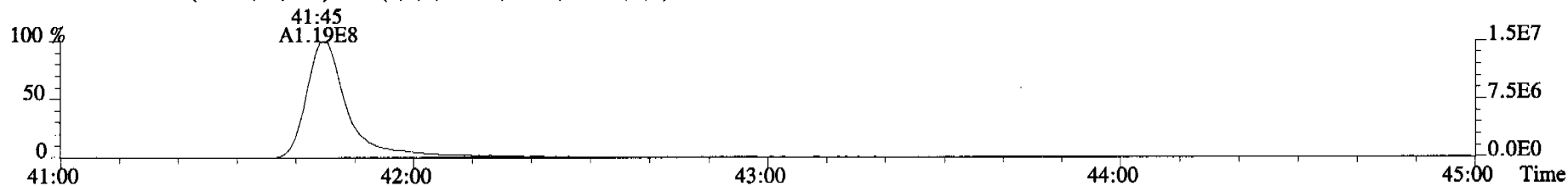
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



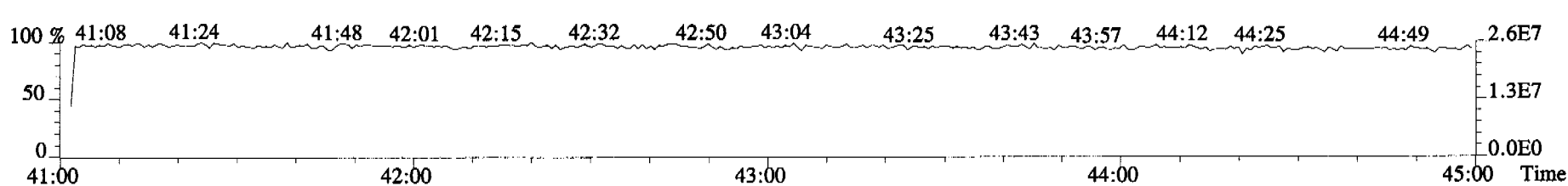
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



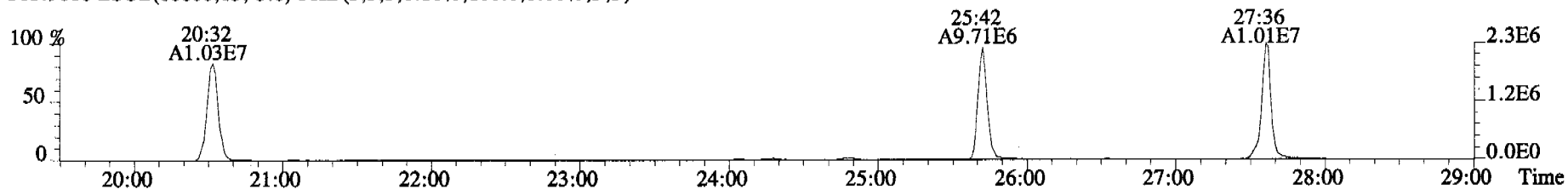
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



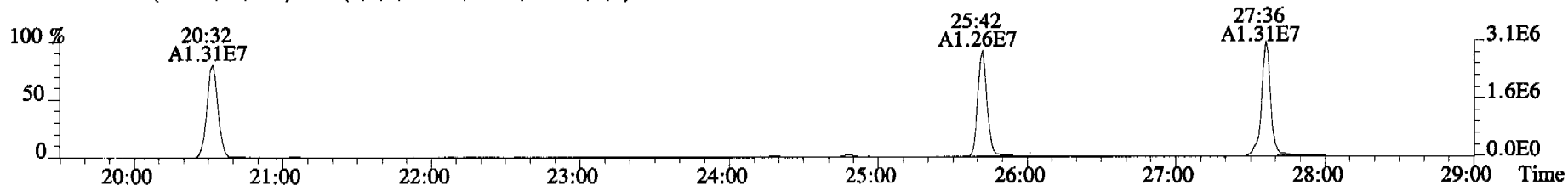
454.9728 F:5



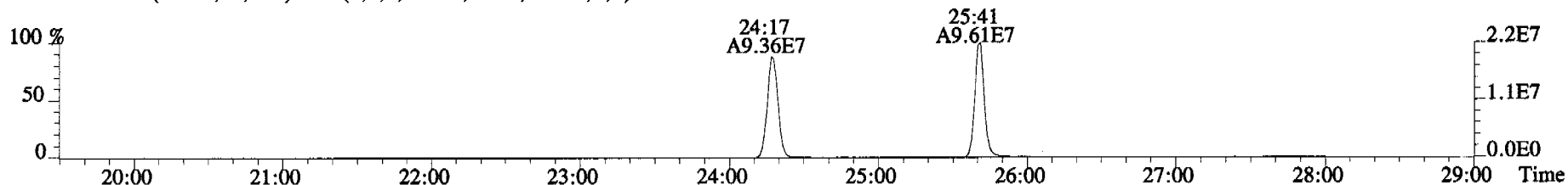
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



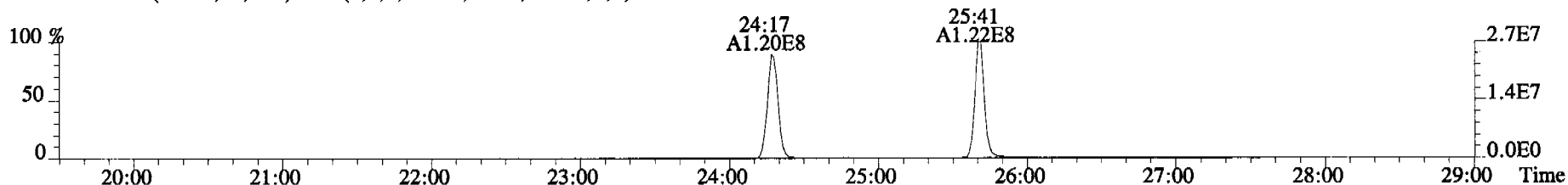
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



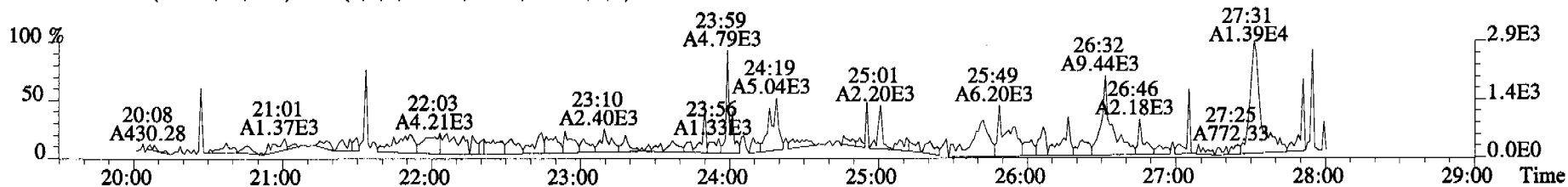
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



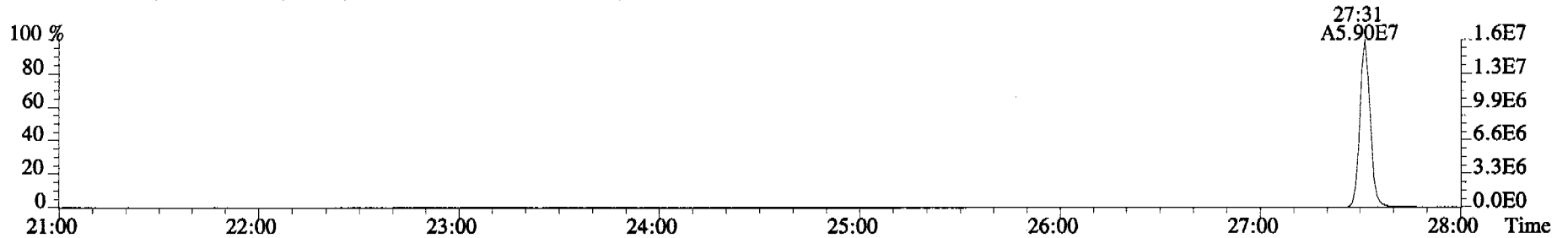
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



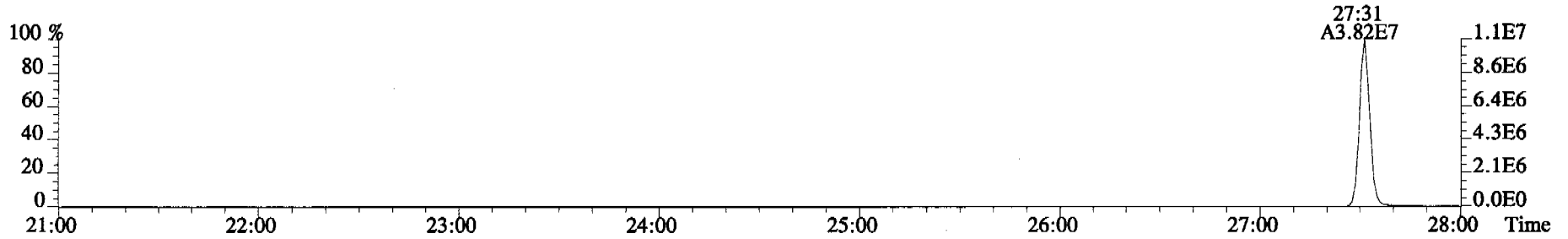
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



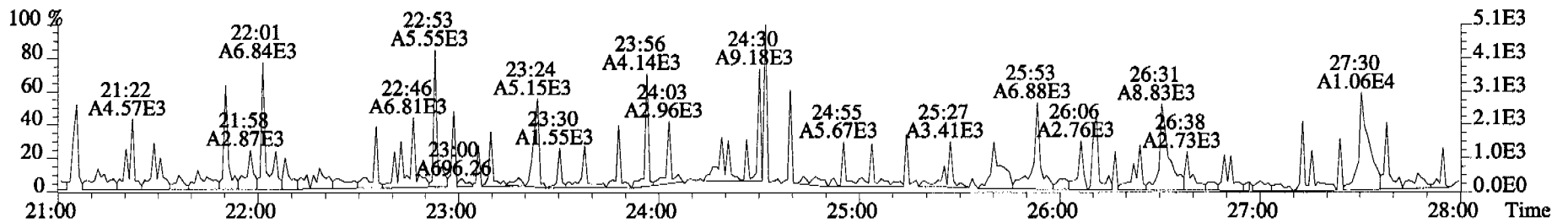
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



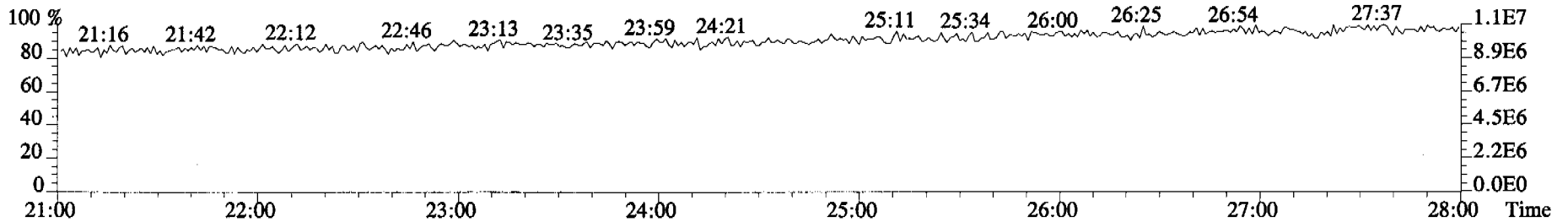
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



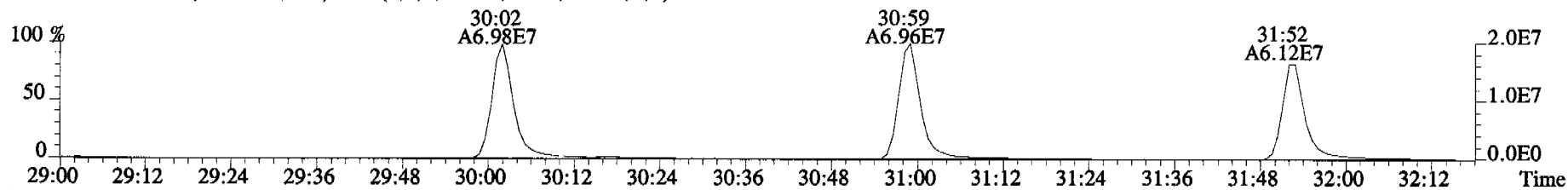
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



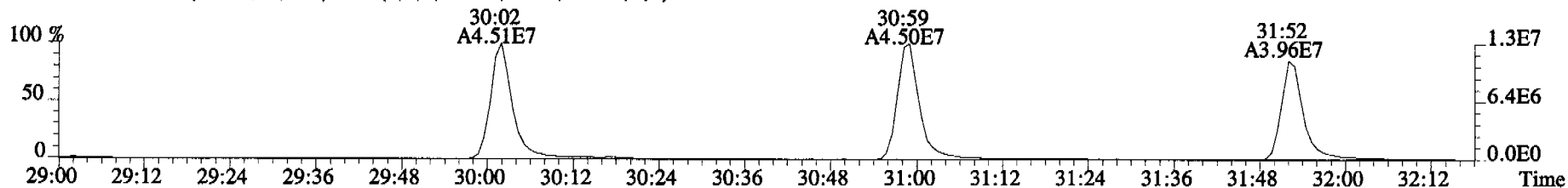
316.9824



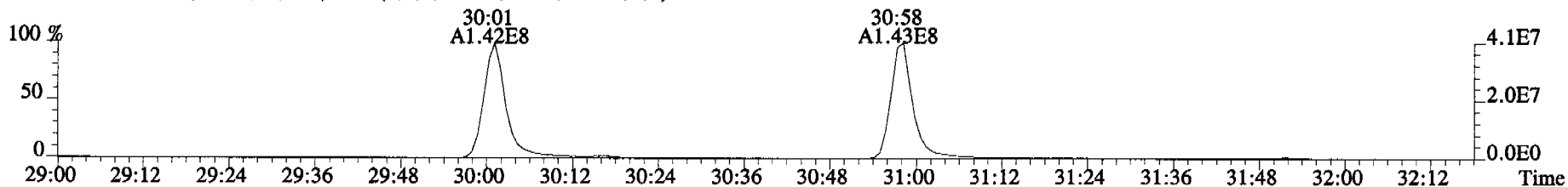
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



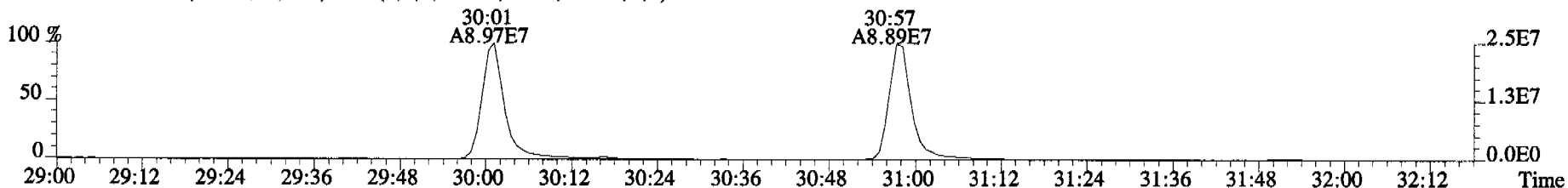
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



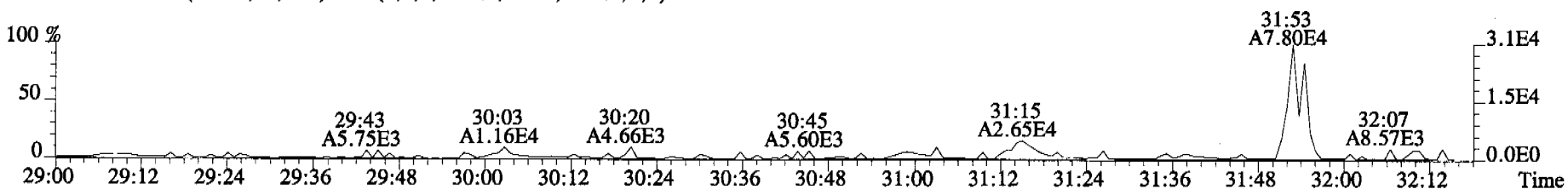
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



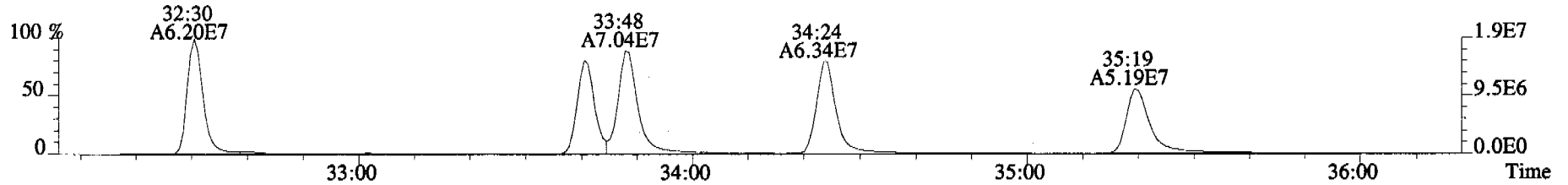
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



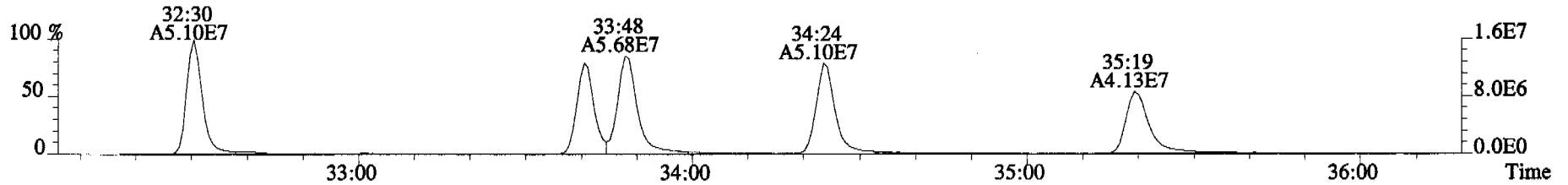
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



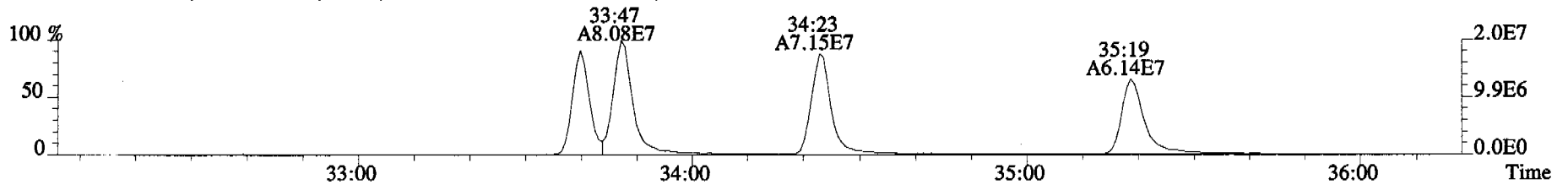
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



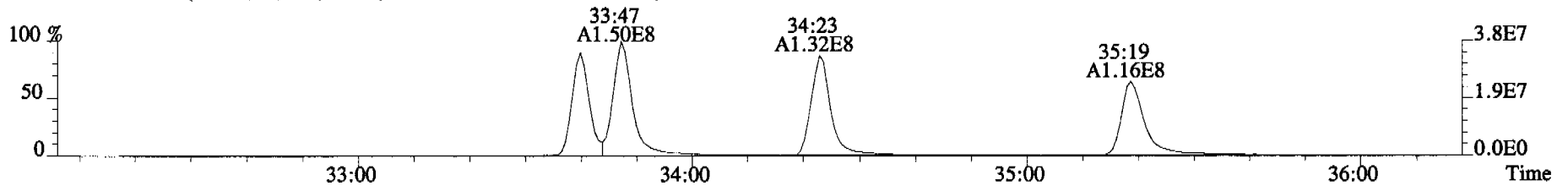
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



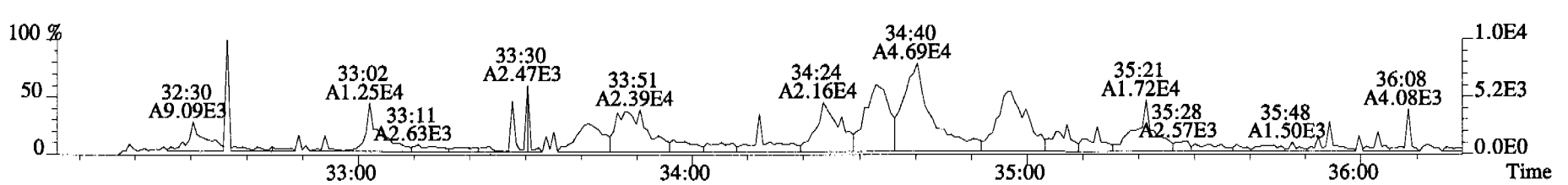
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



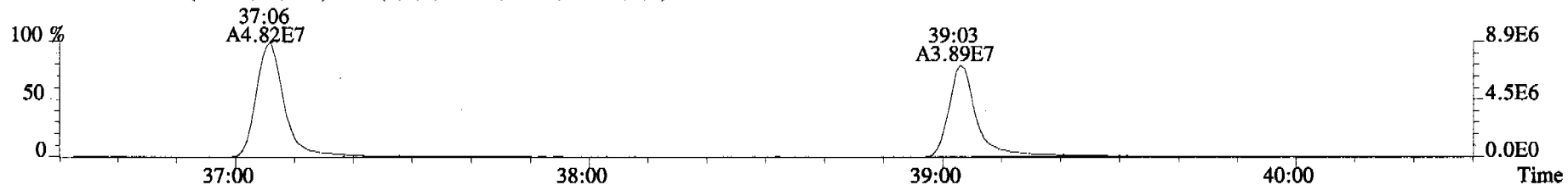
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



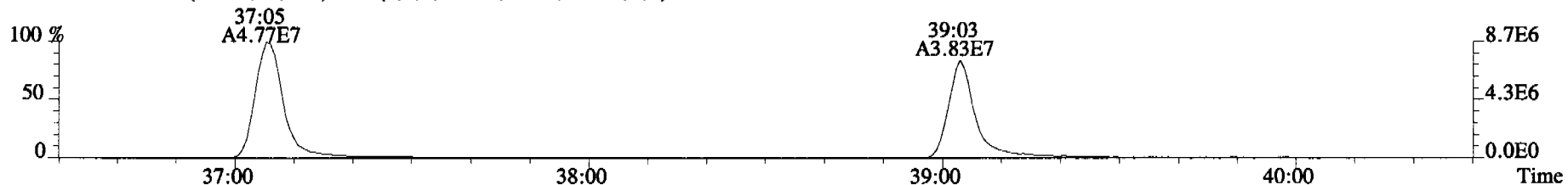
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



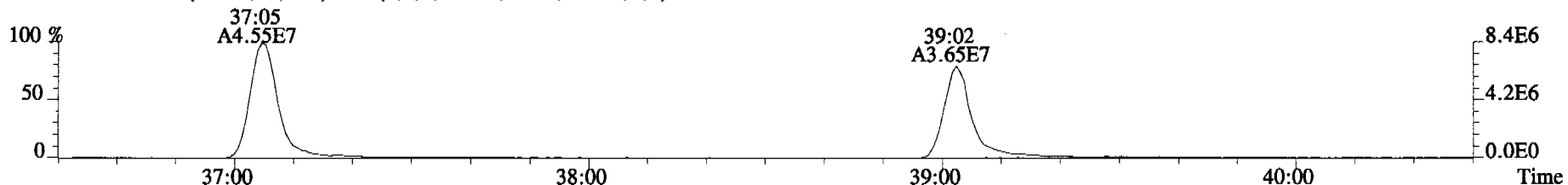
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



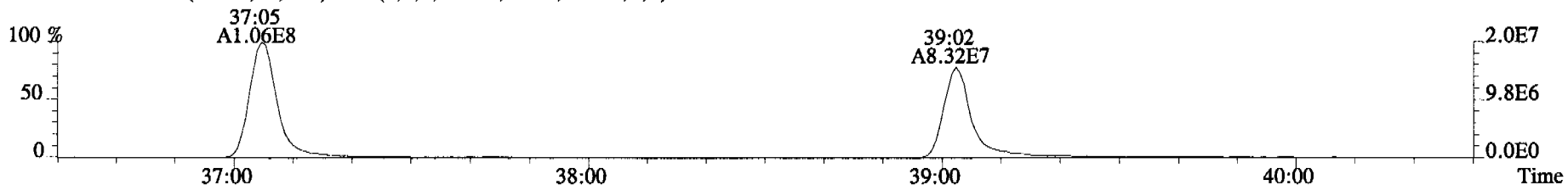
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



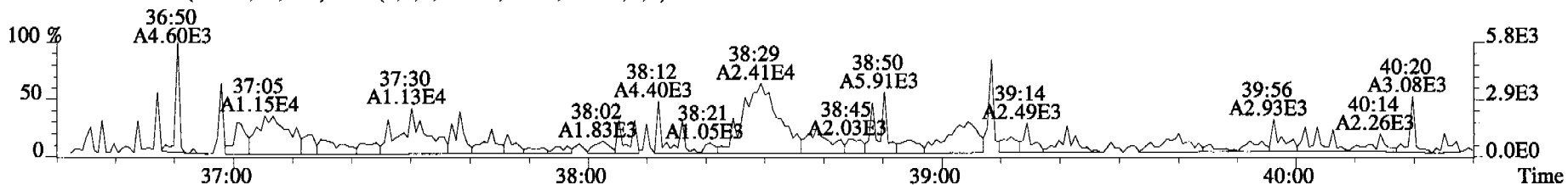
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



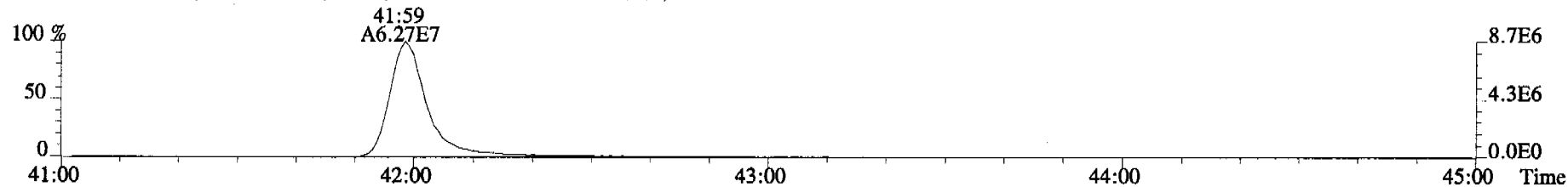
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



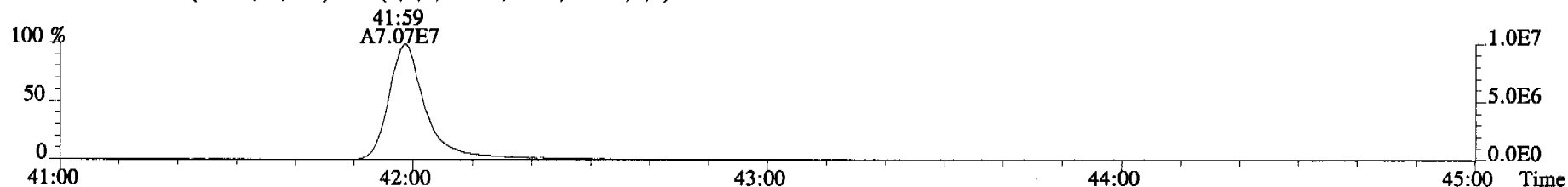
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



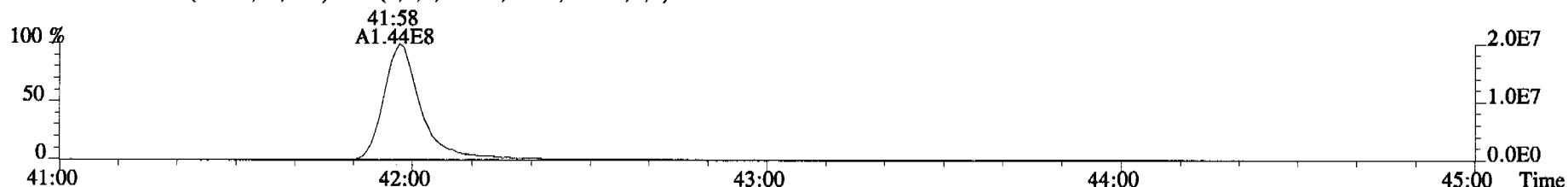
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



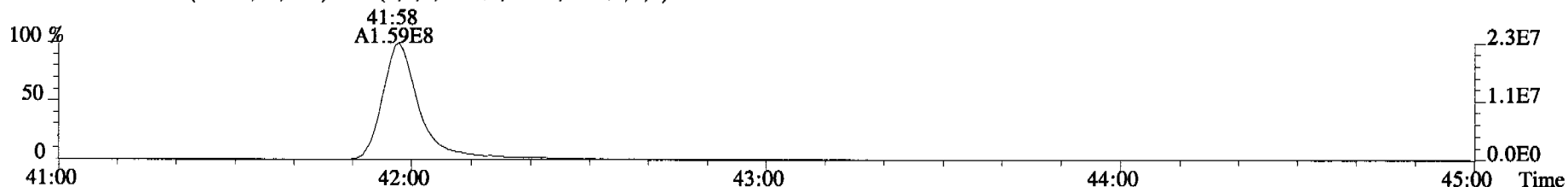
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



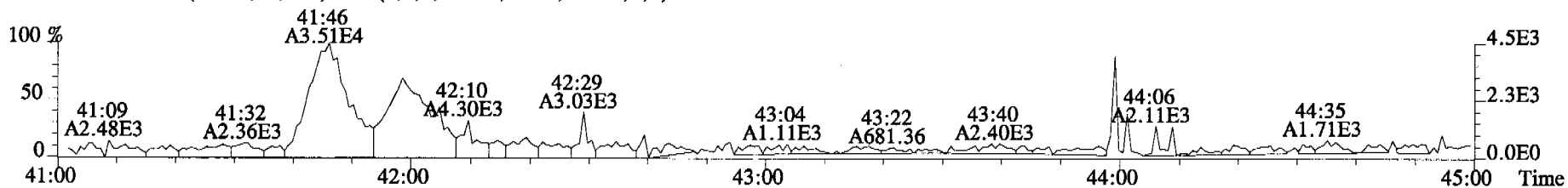
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



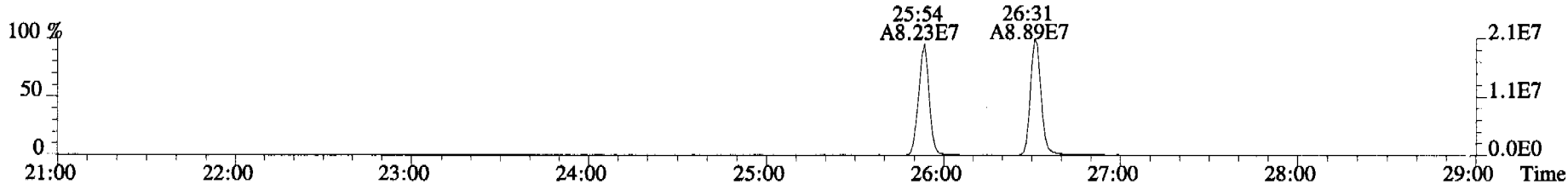
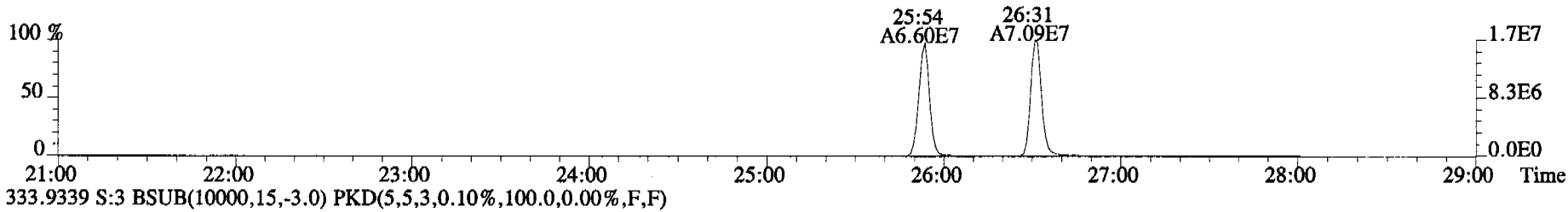
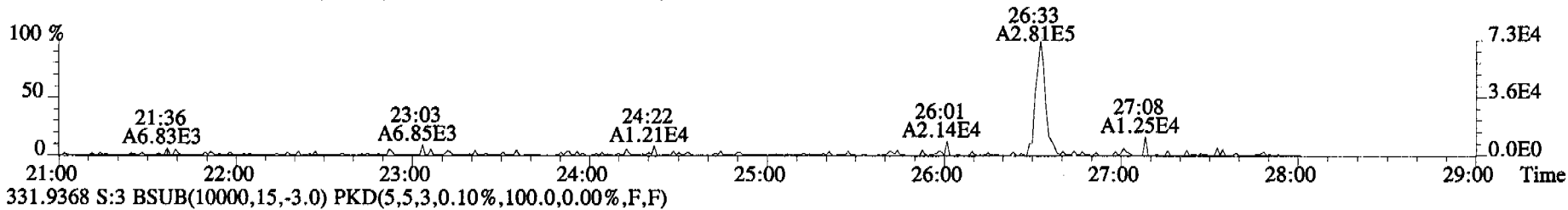
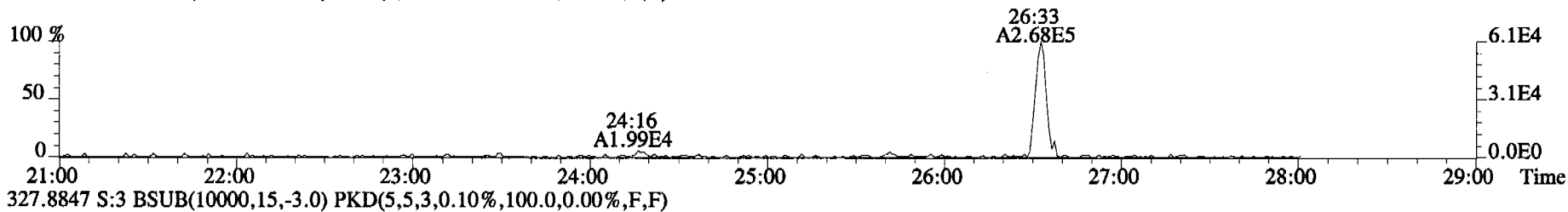
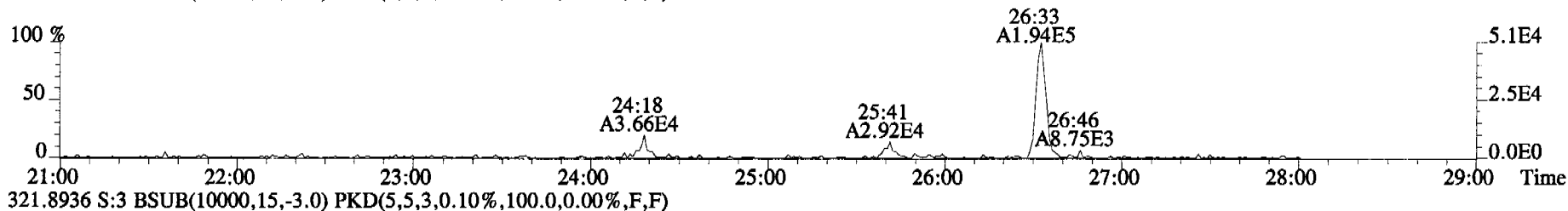
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



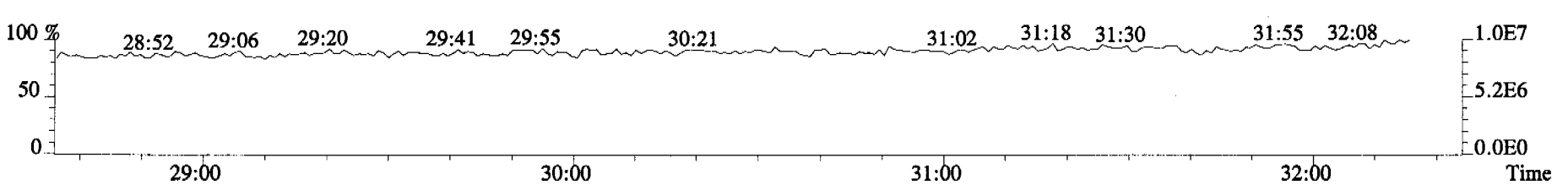
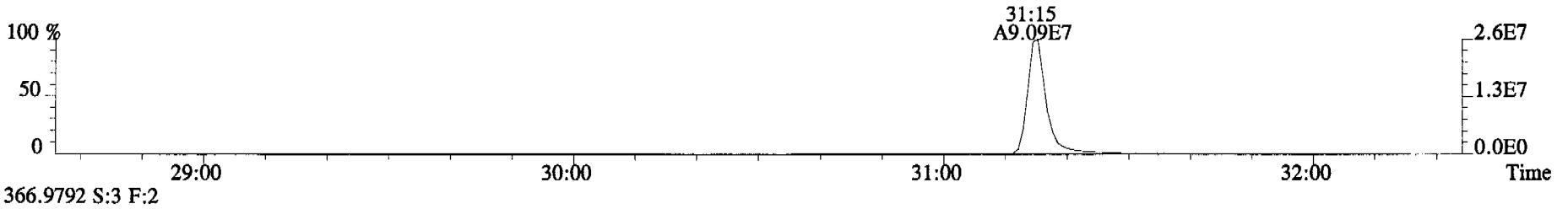
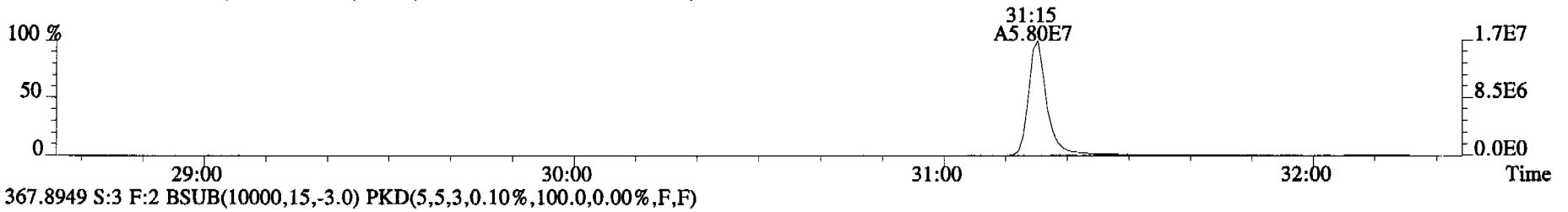
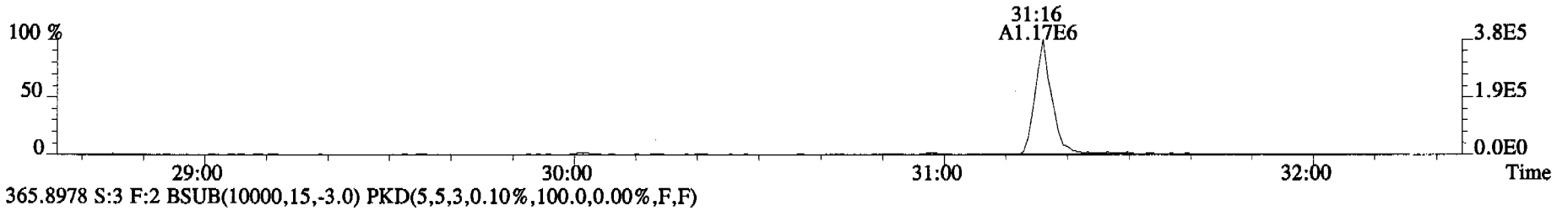
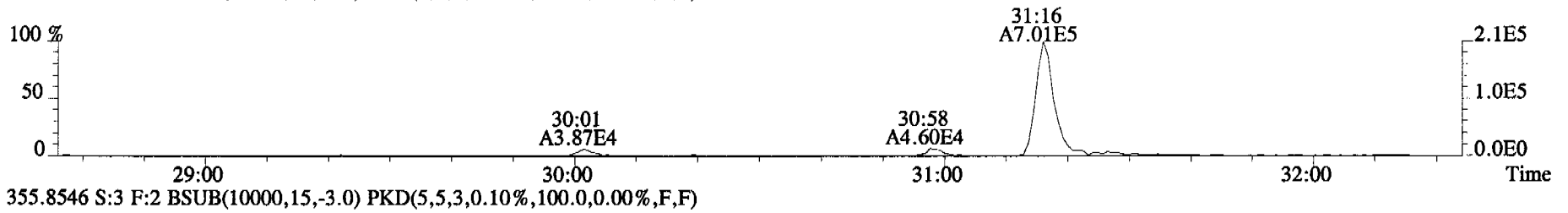
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



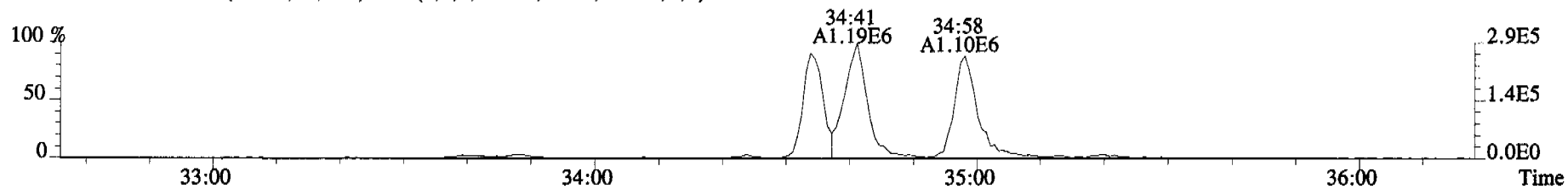
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



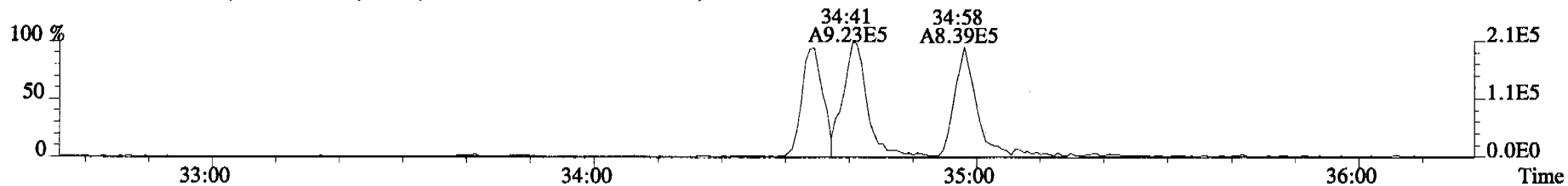
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



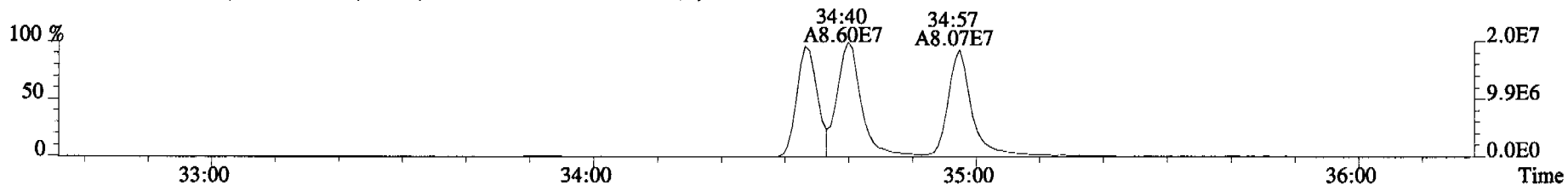
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



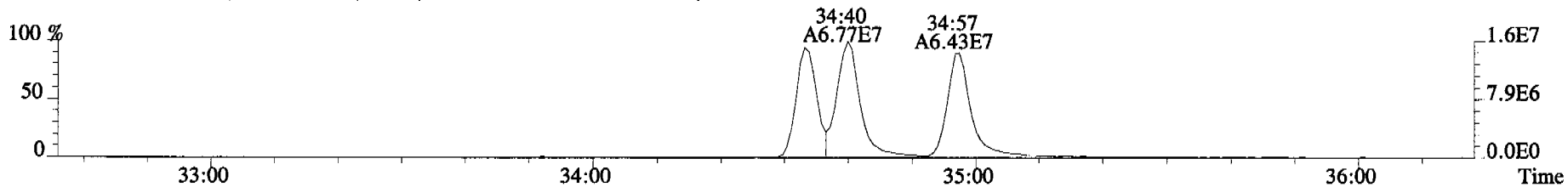
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



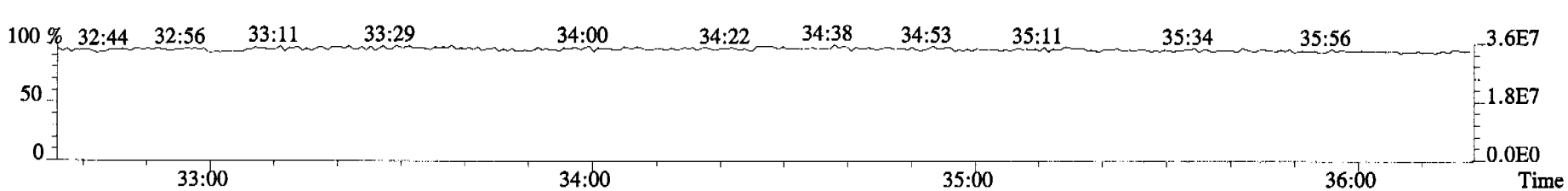
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



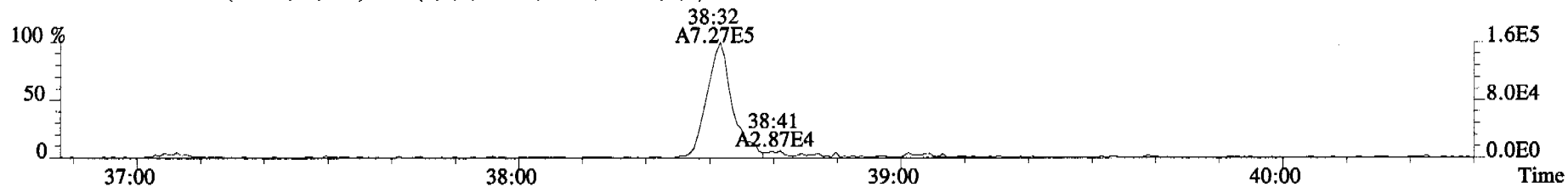
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



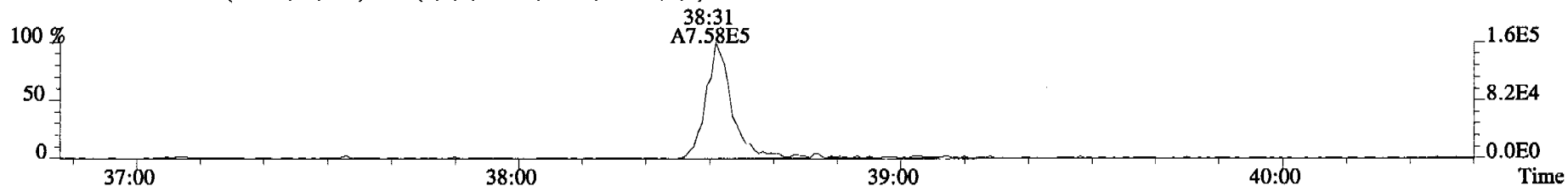
380.9760 S:3 F:3



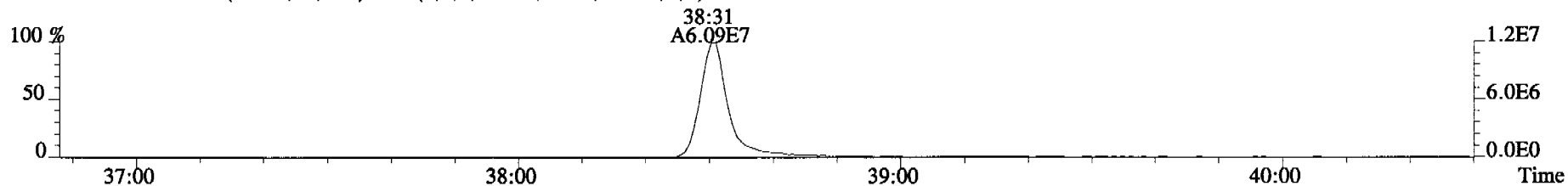
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



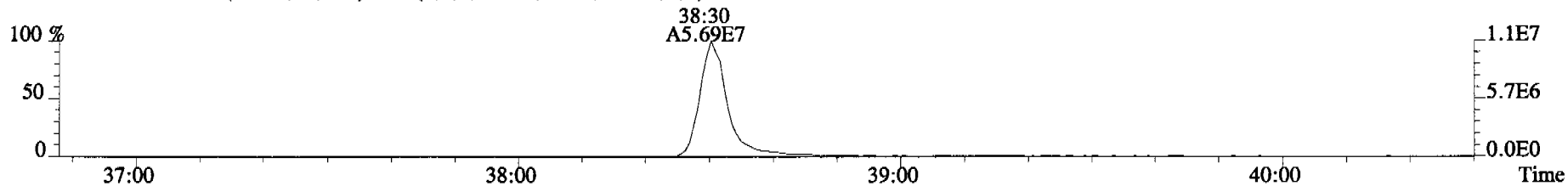
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



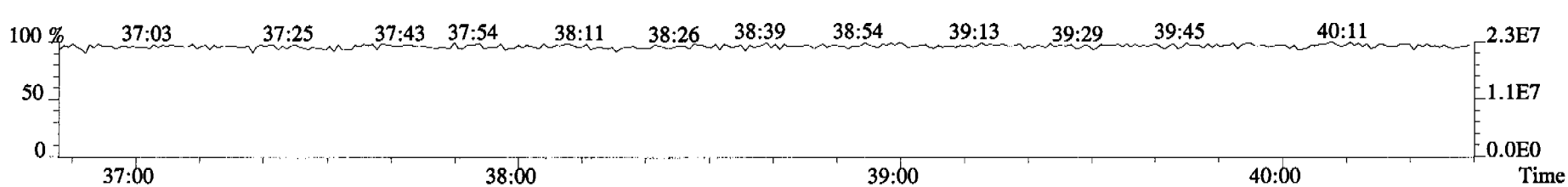
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



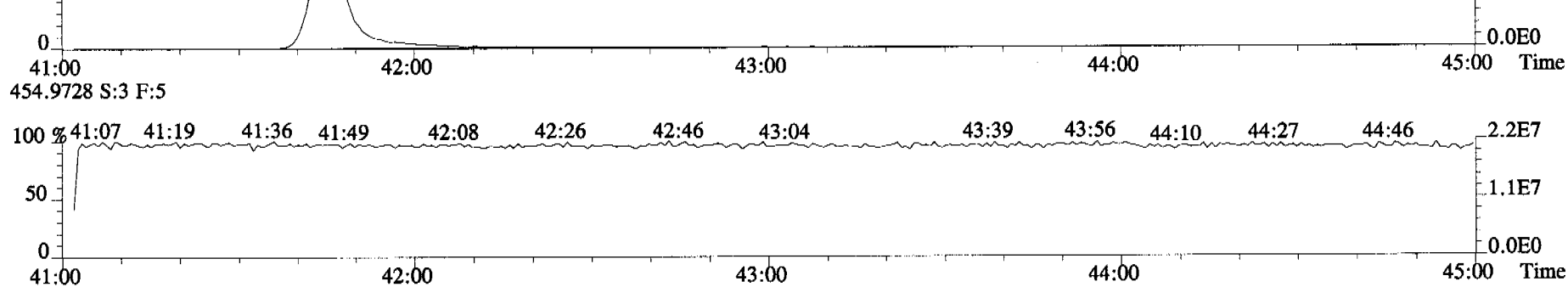
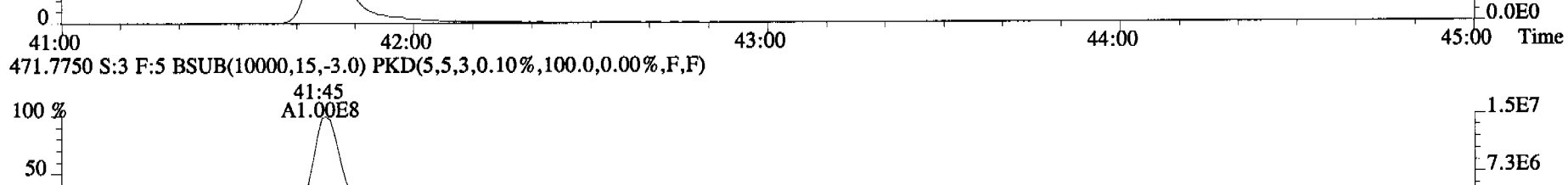
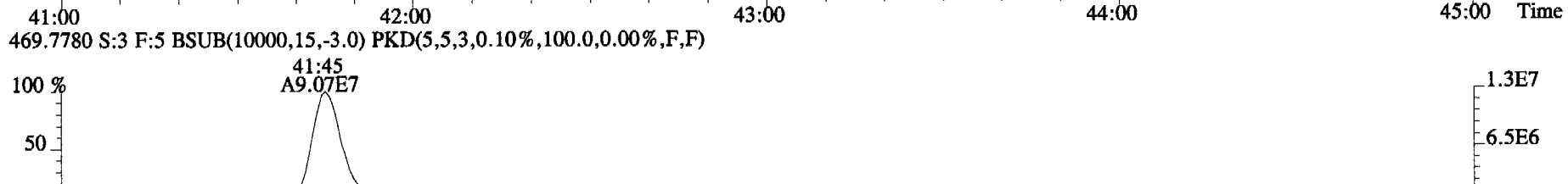
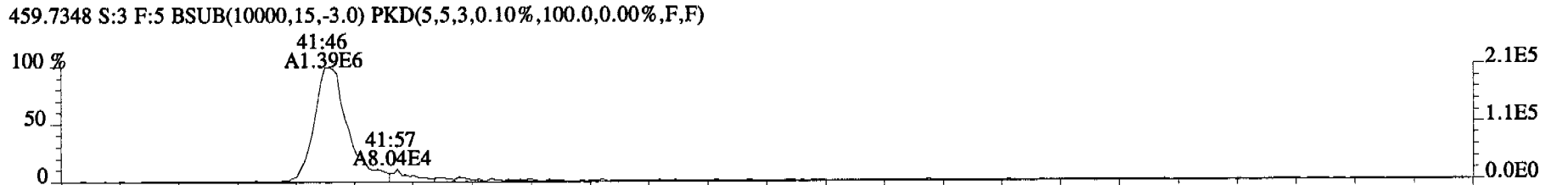
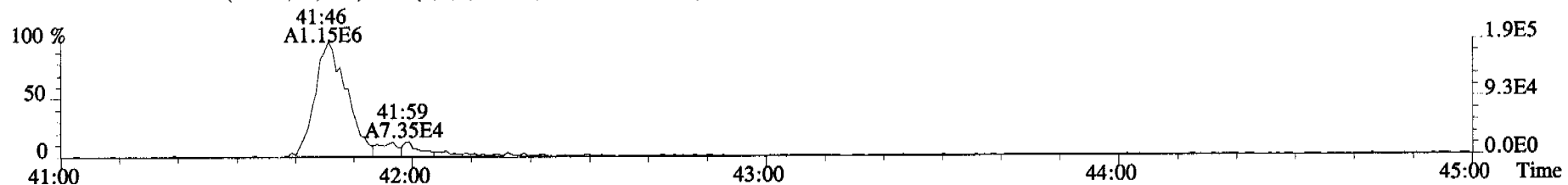
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



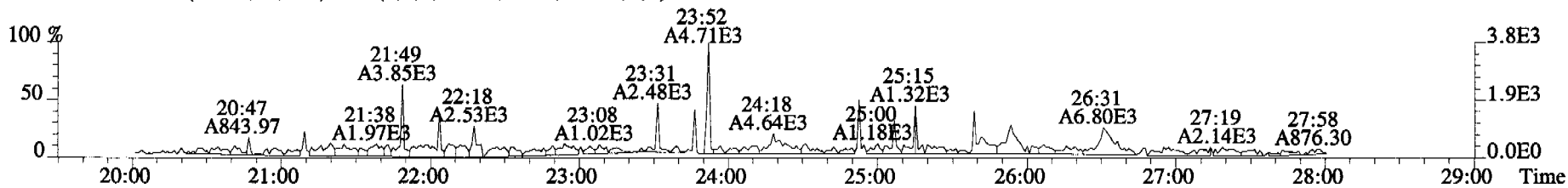
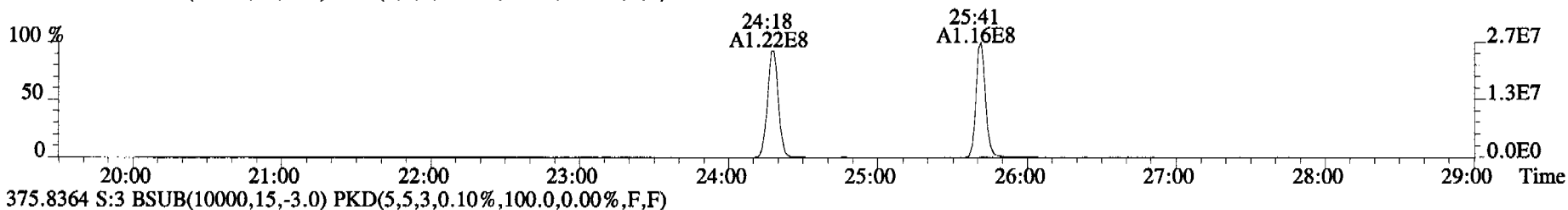
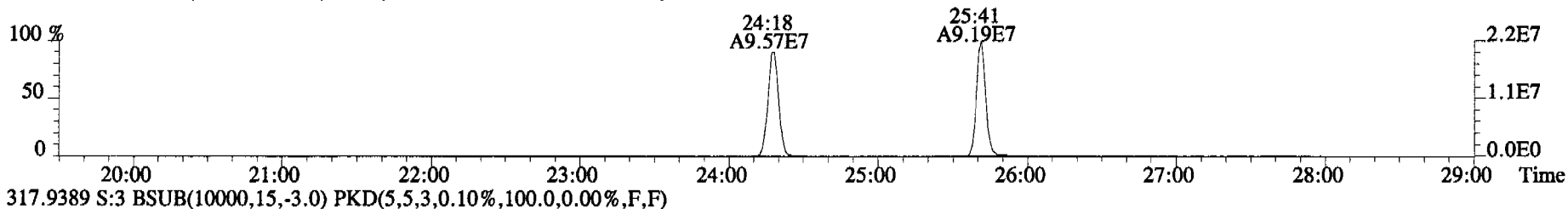
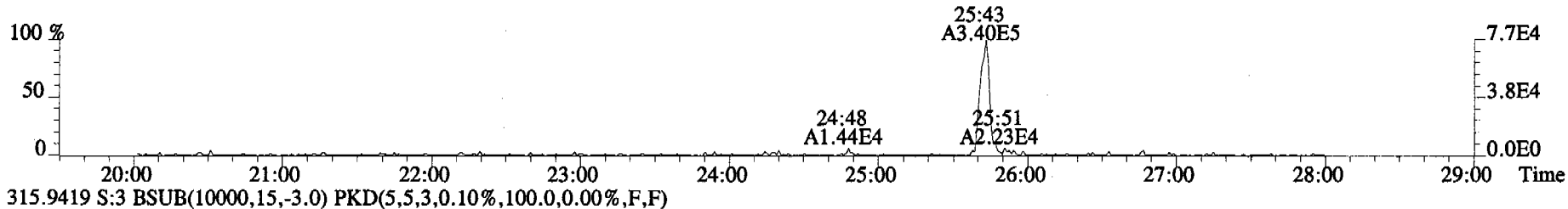
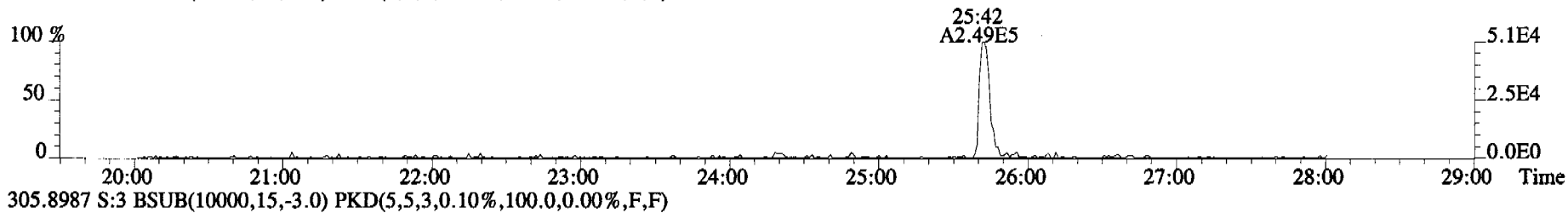
430.9728 S:3 F:4



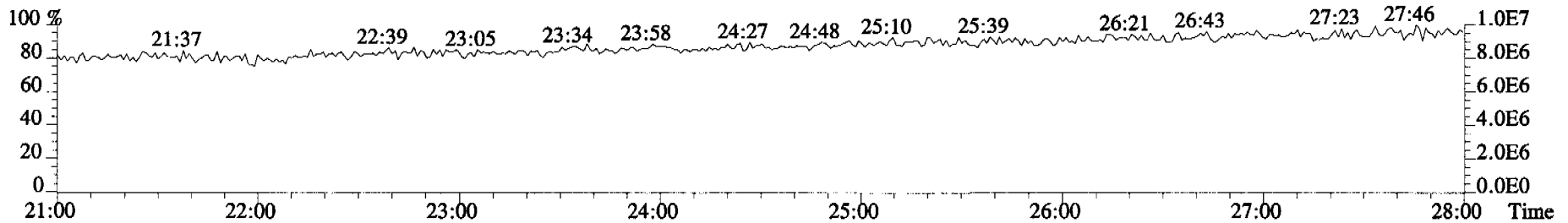
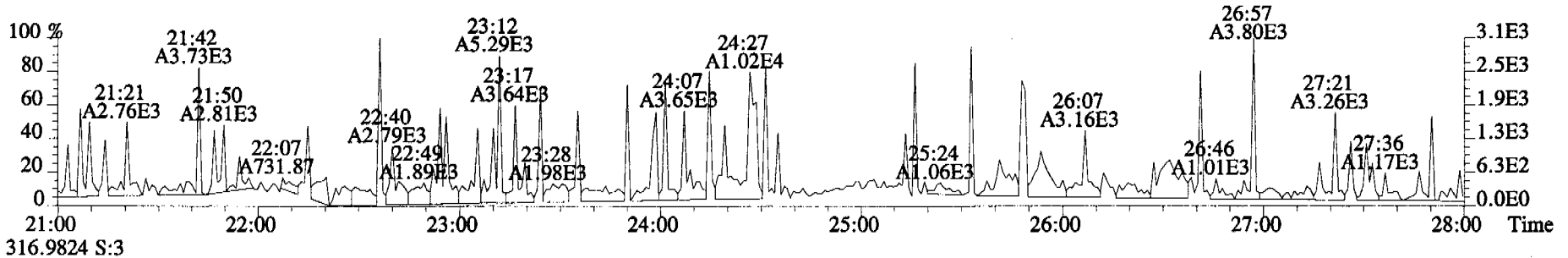
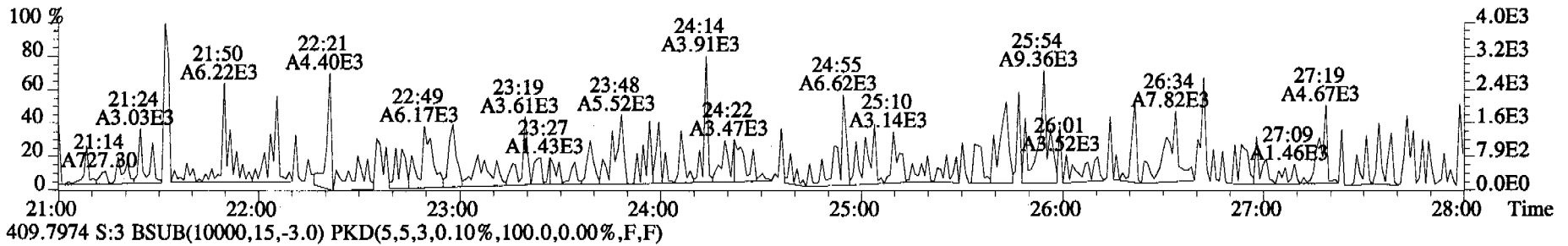
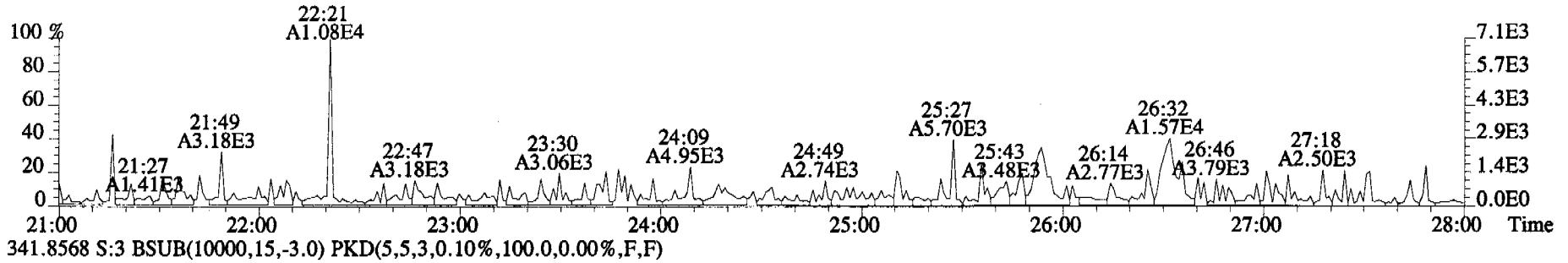
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



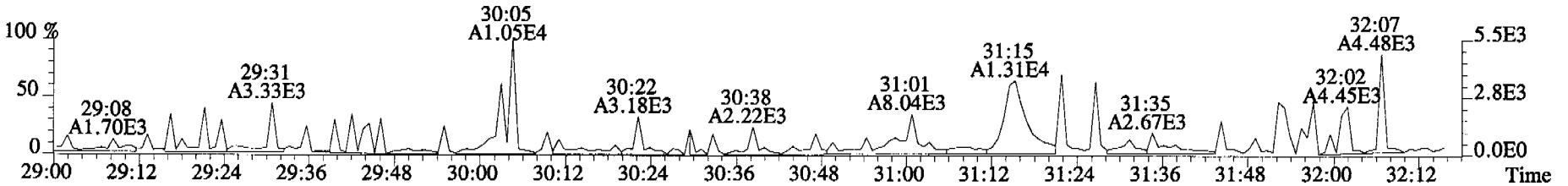
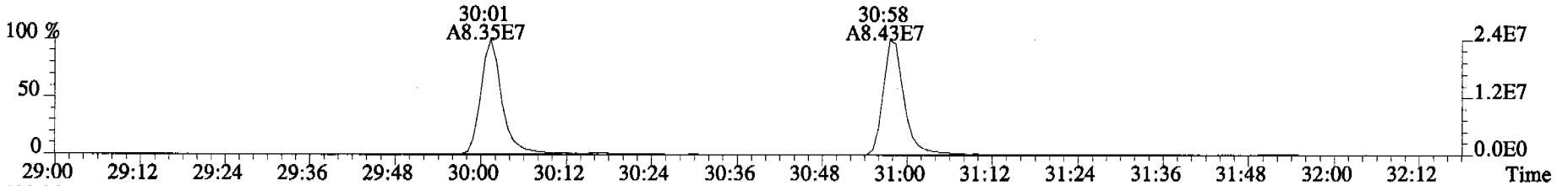
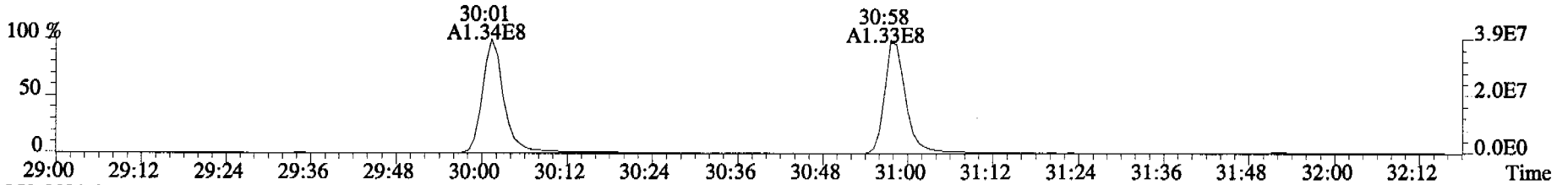
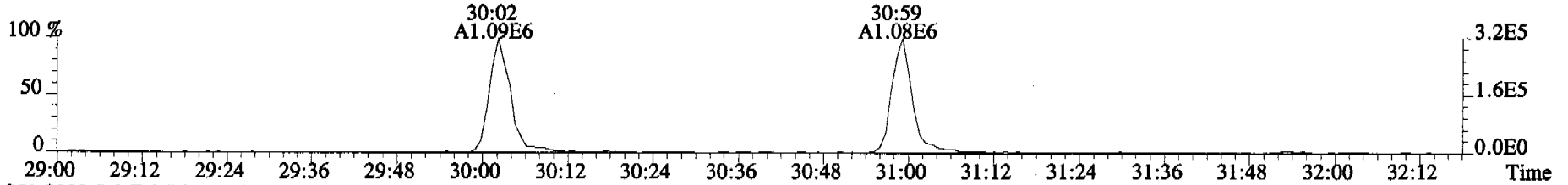
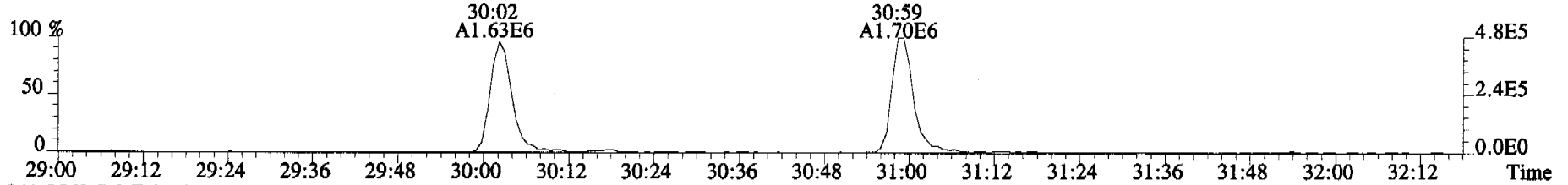
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



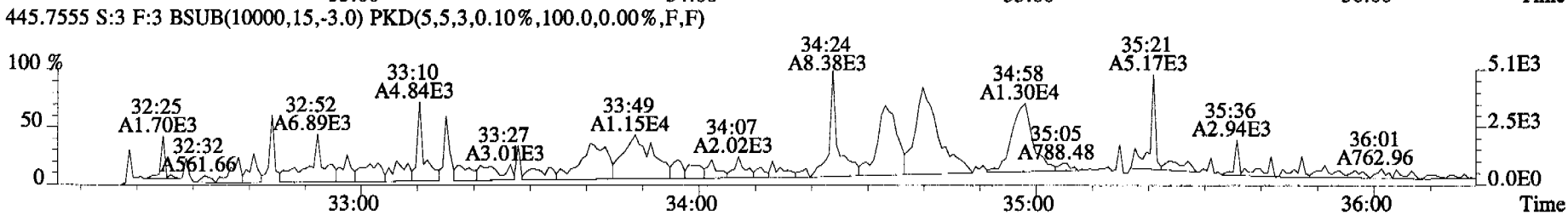
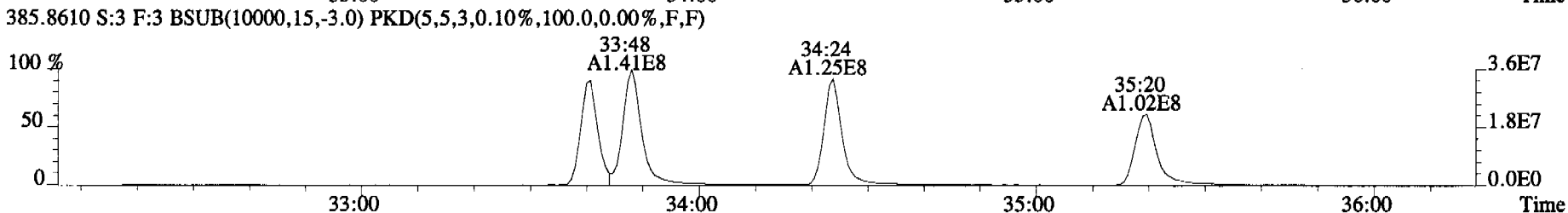
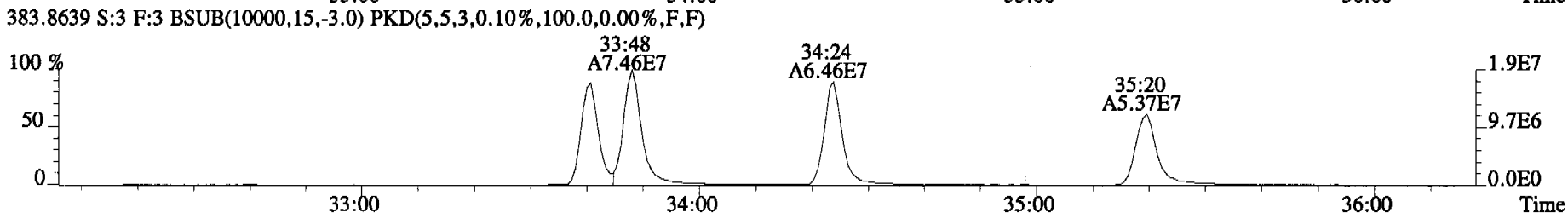
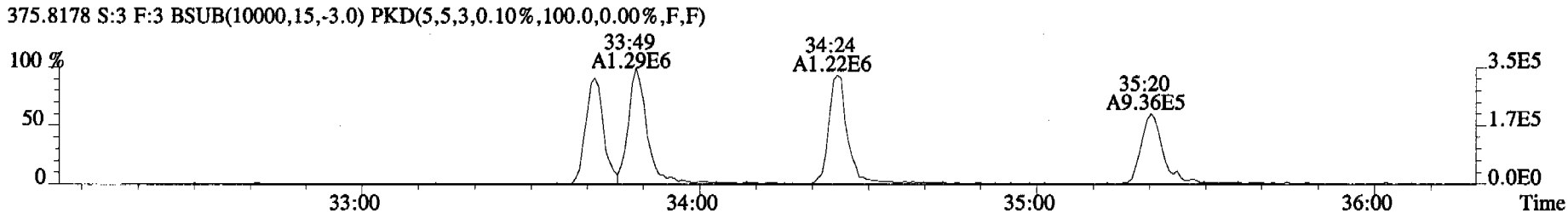
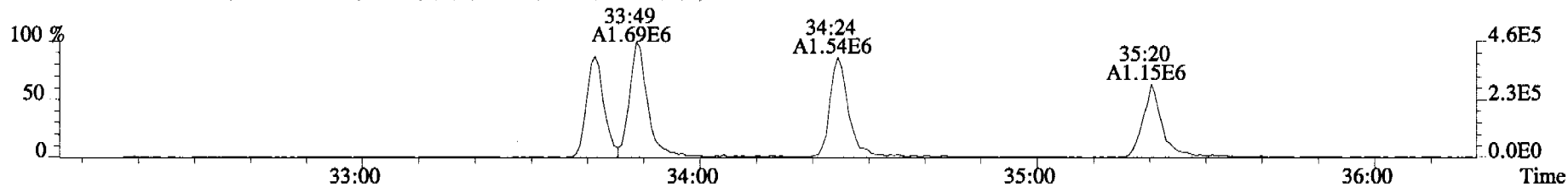
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



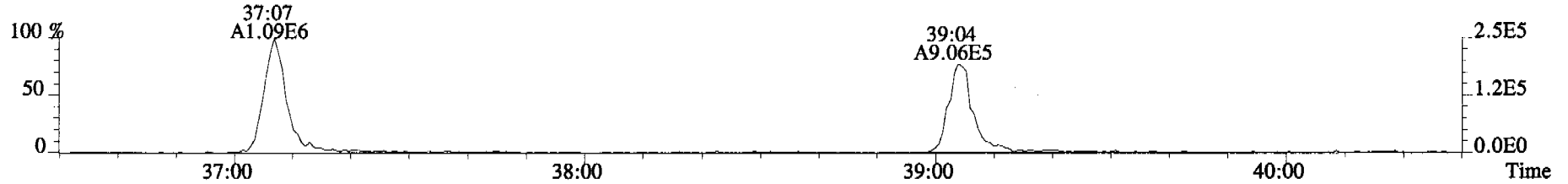
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



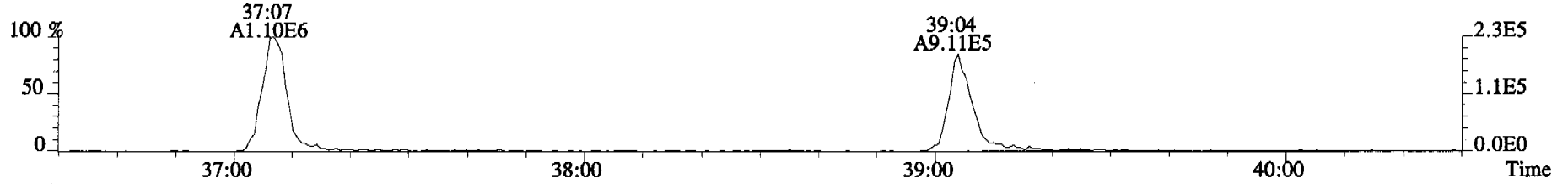
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



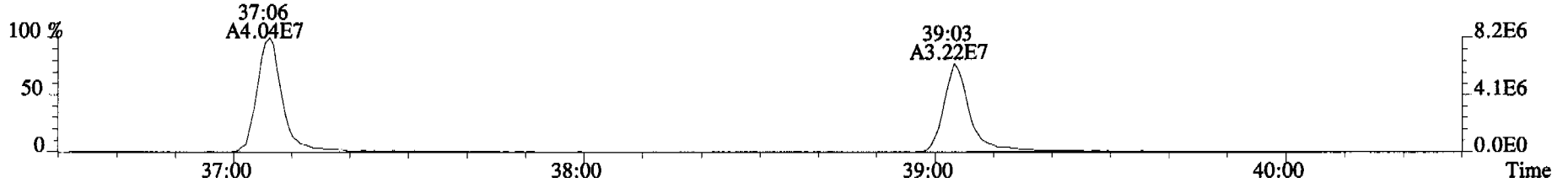
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



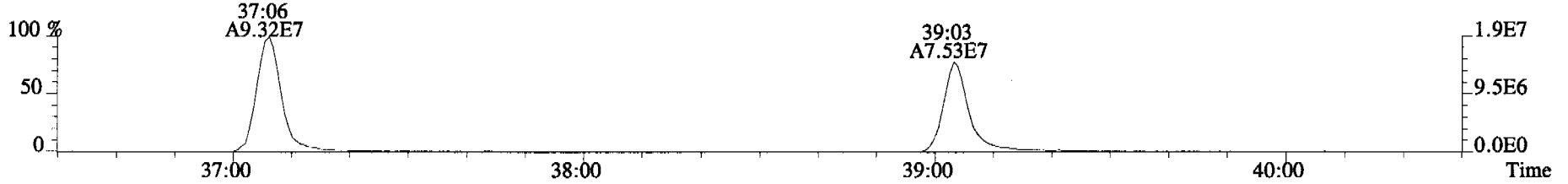
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



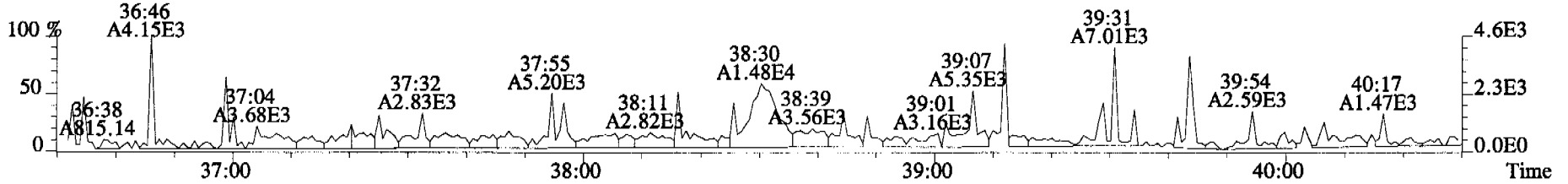
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



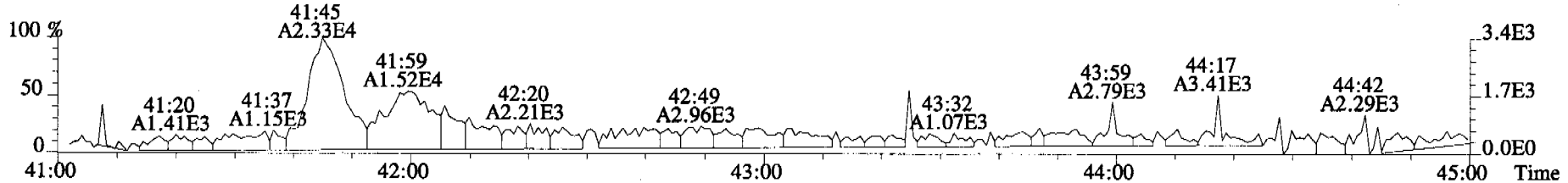
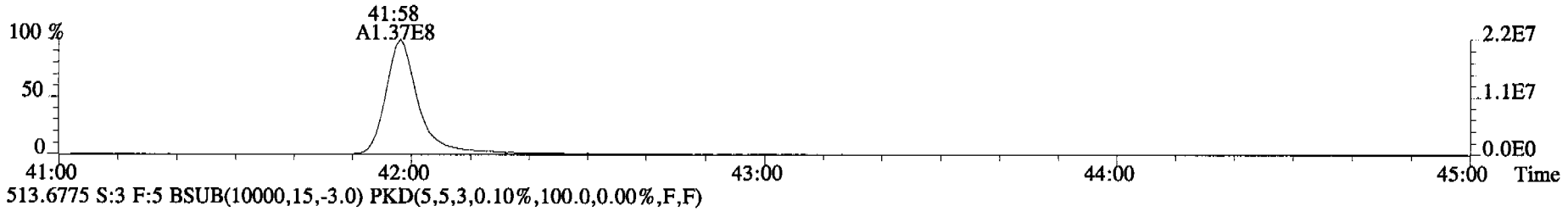
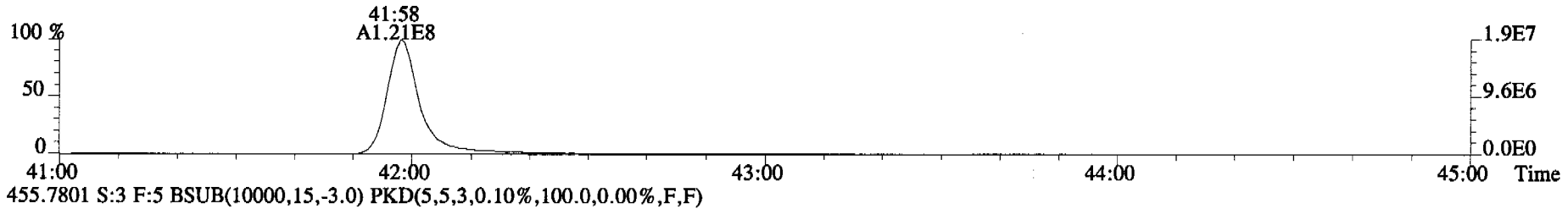
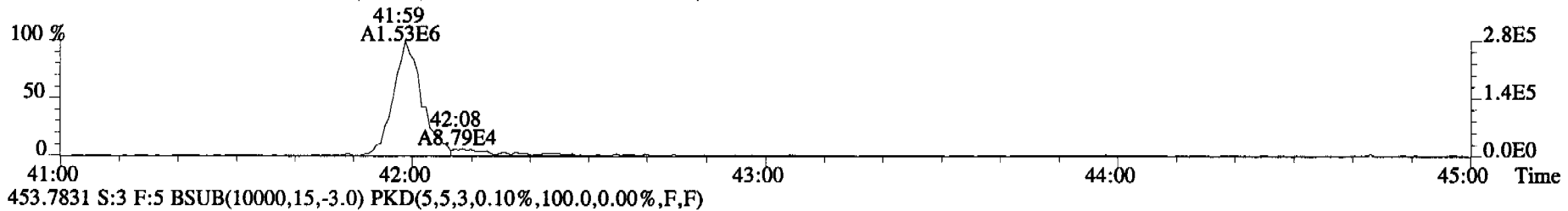
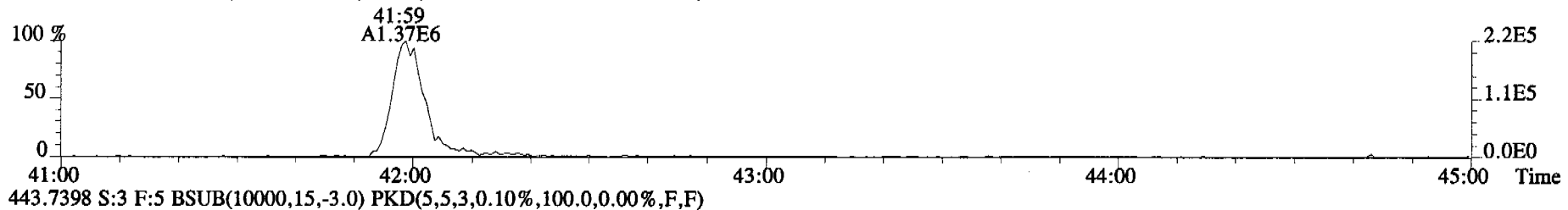
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



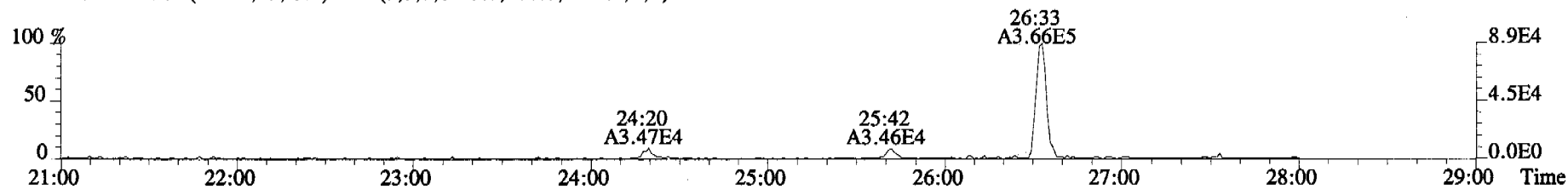
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



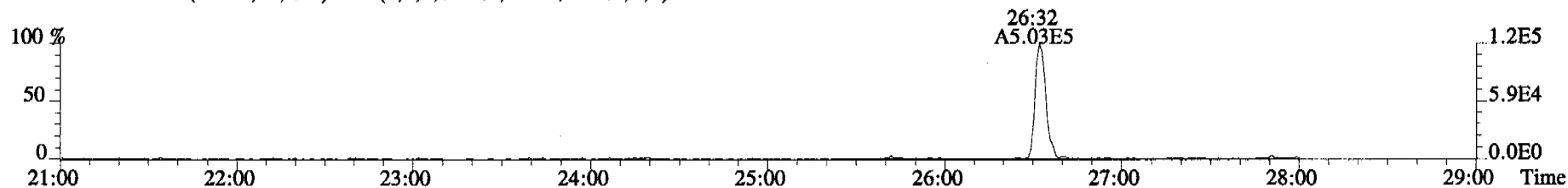
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD_DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



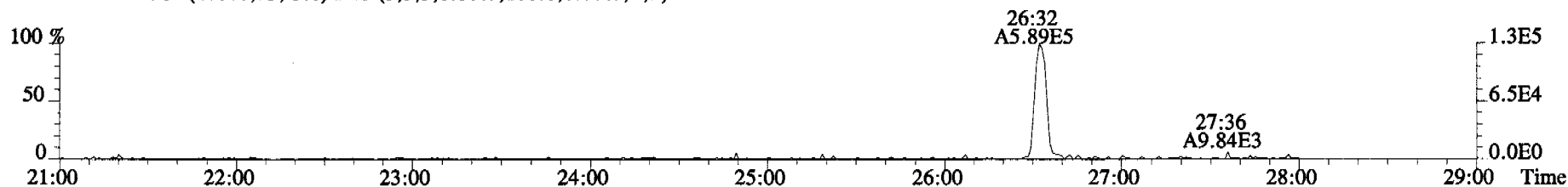
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



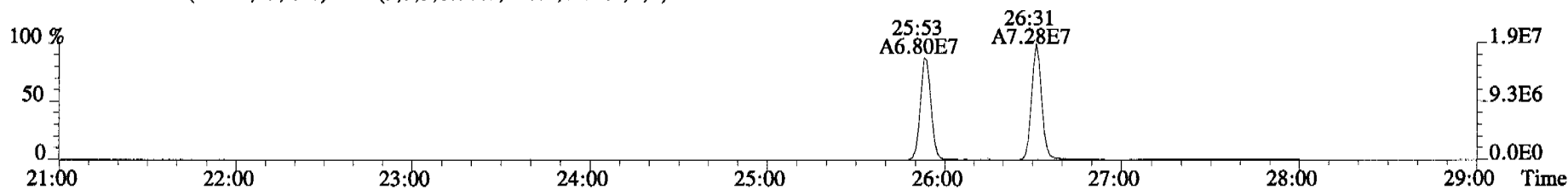
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



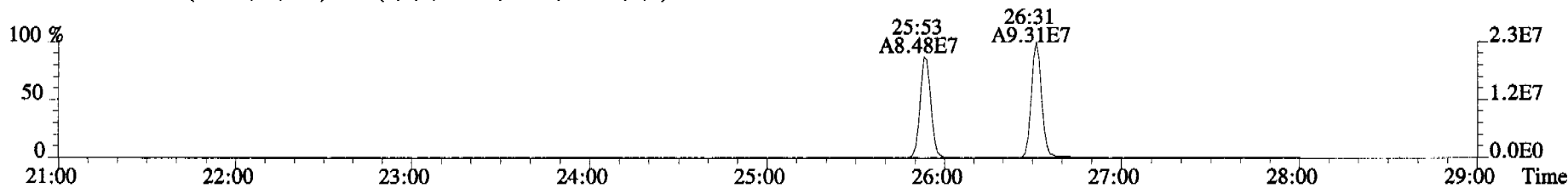
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



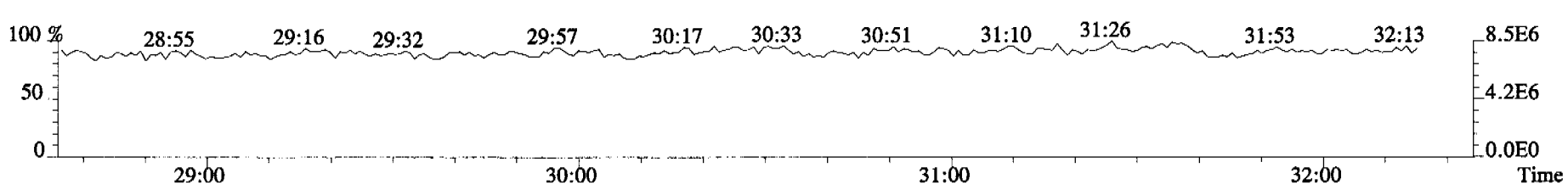
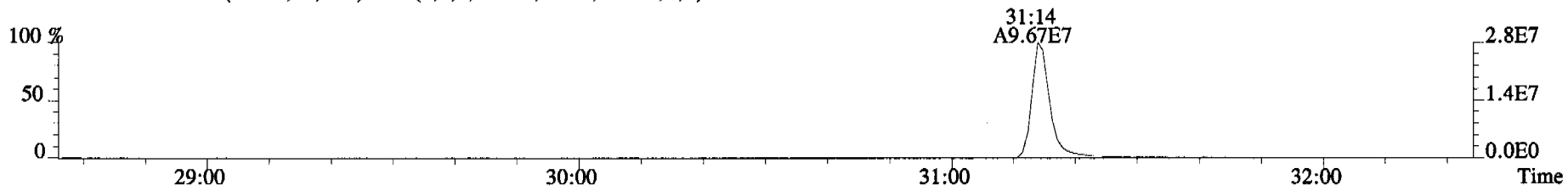
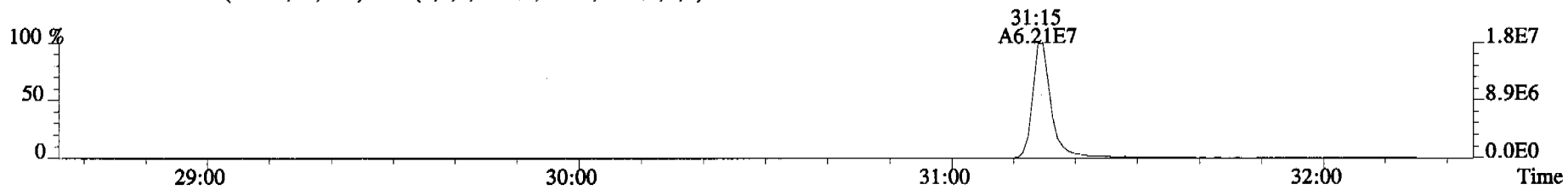
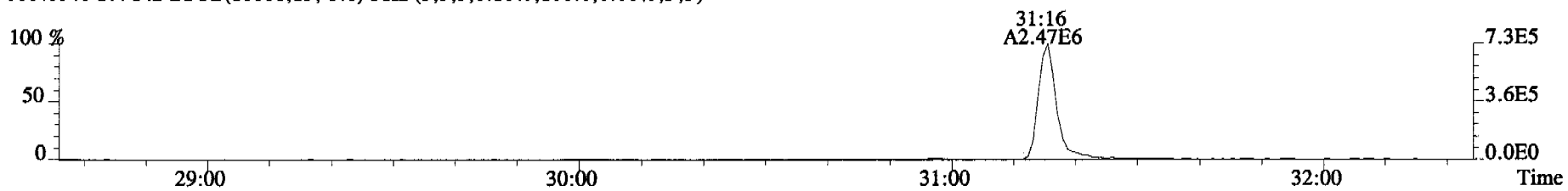
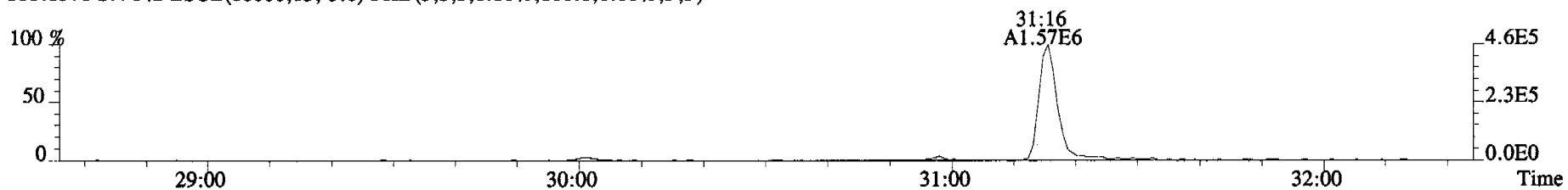
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



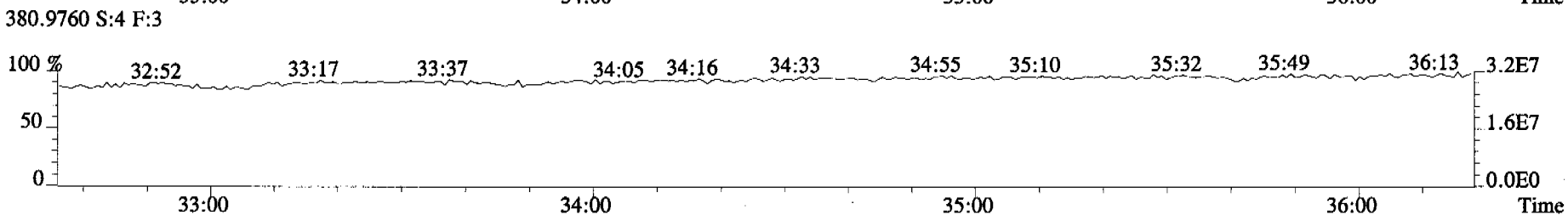
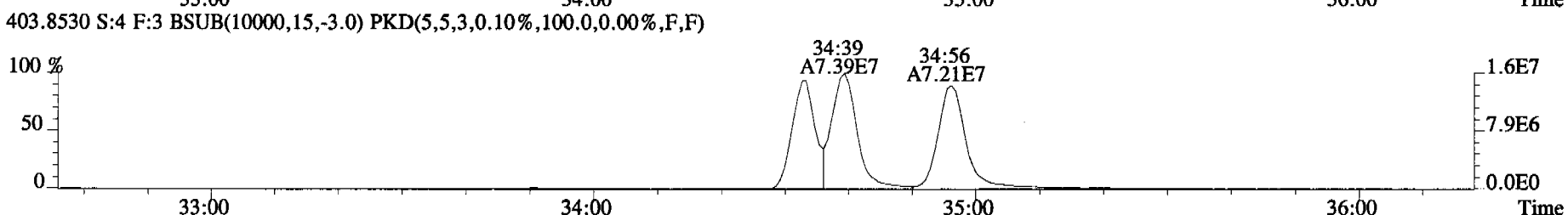
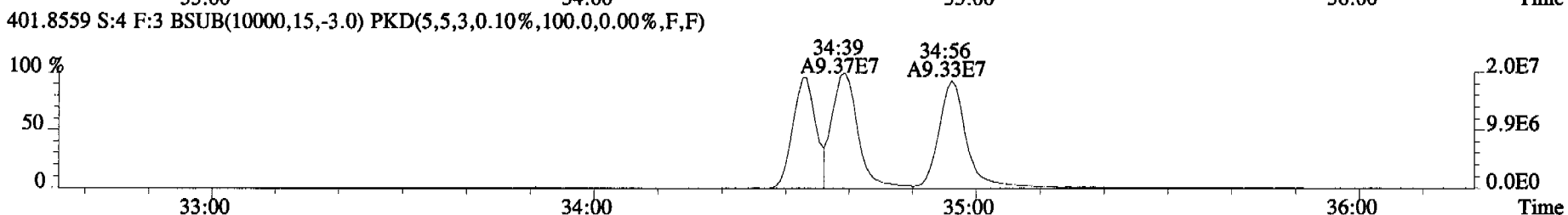
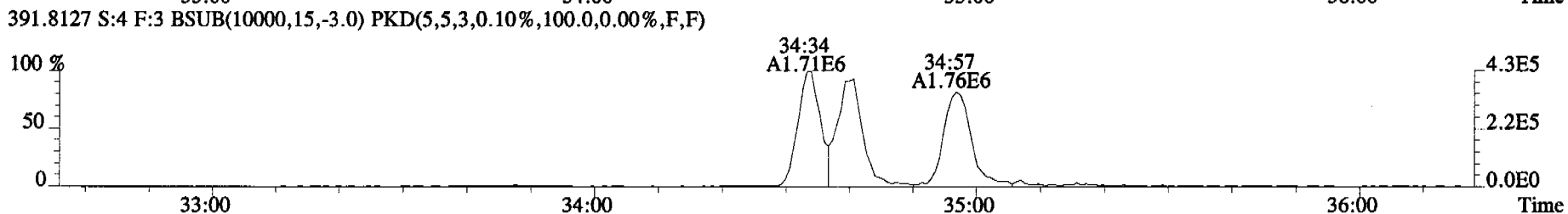
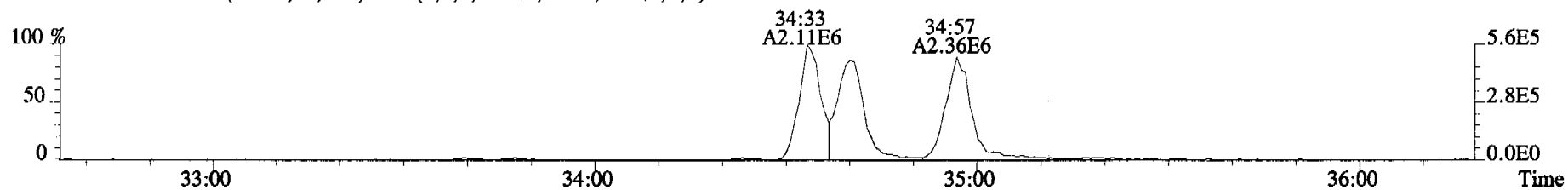
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



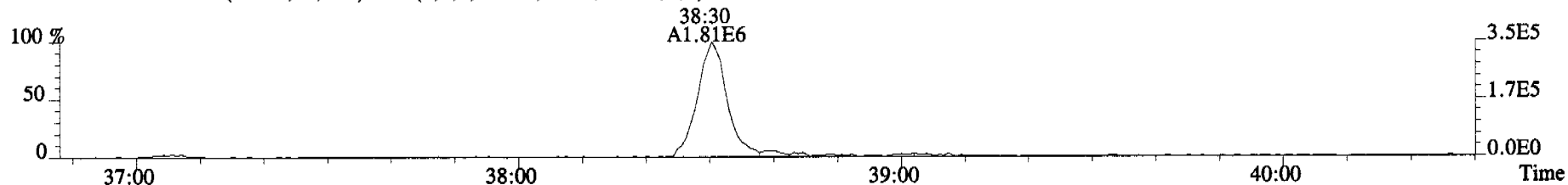
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



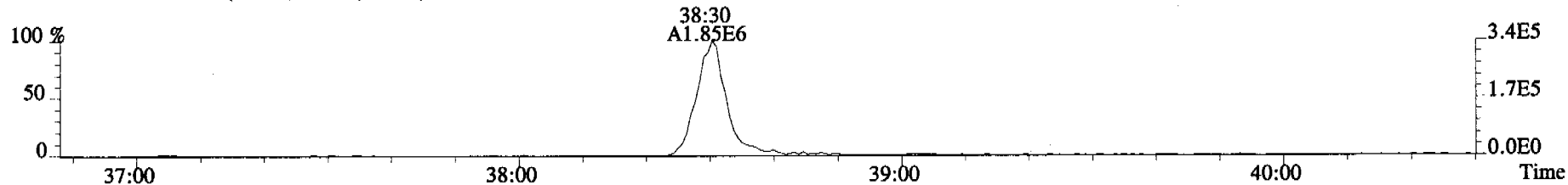
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



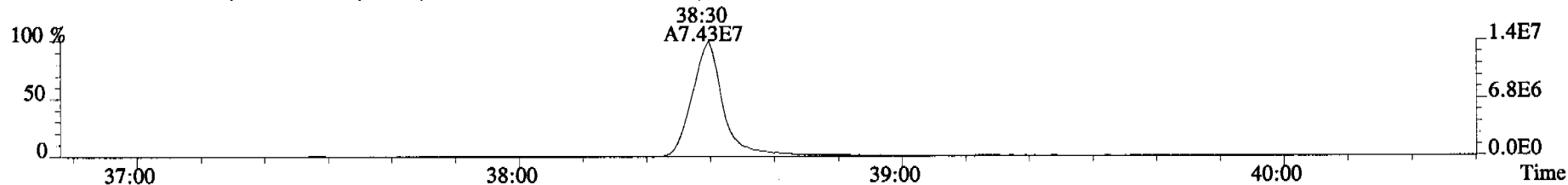
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



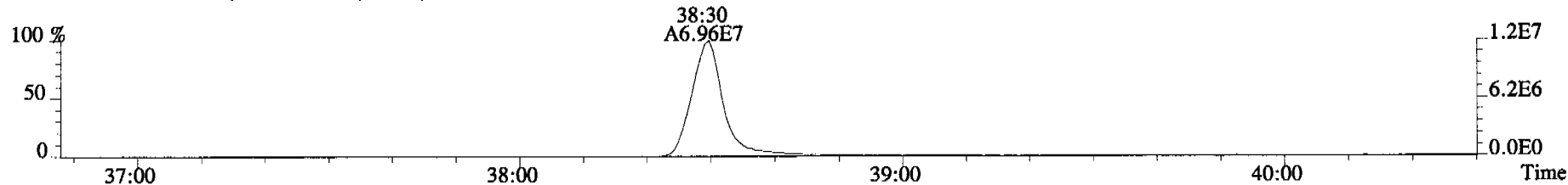
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



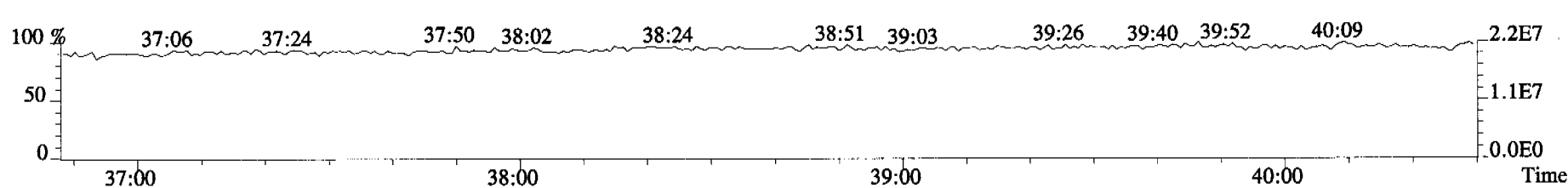
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



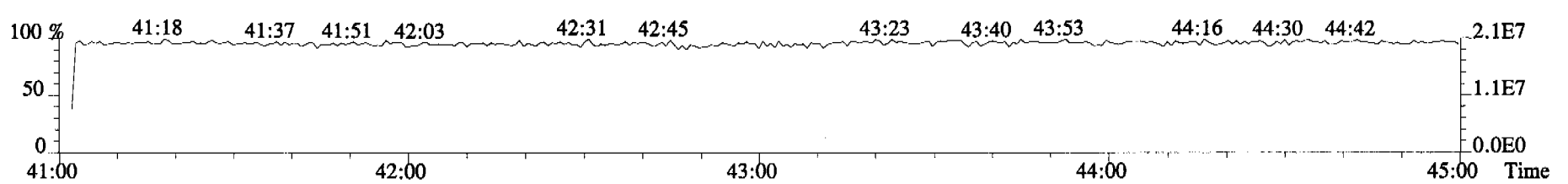
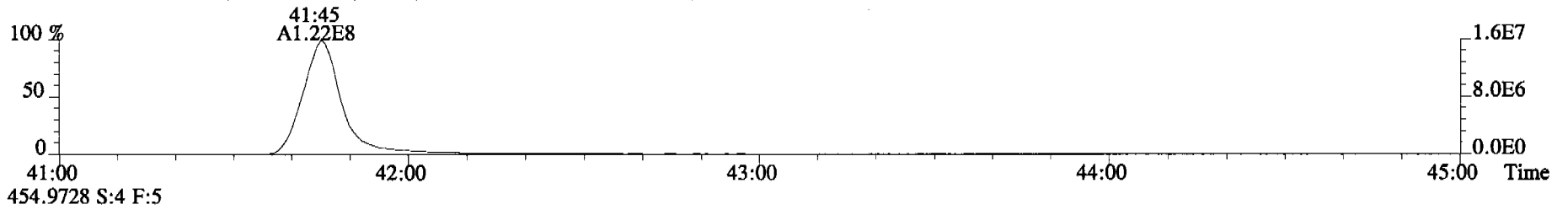
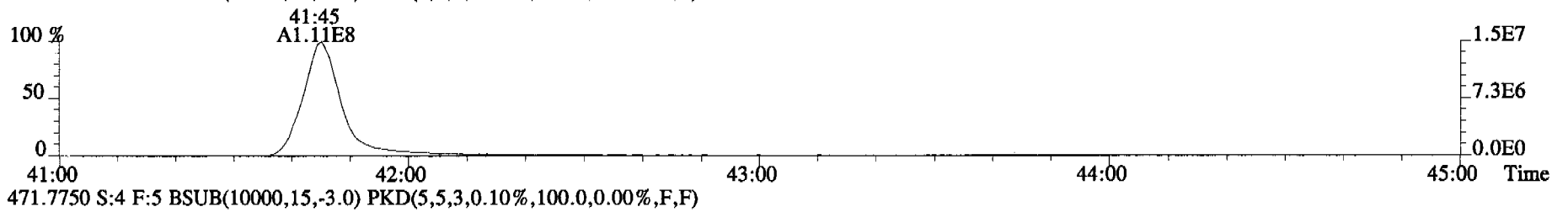
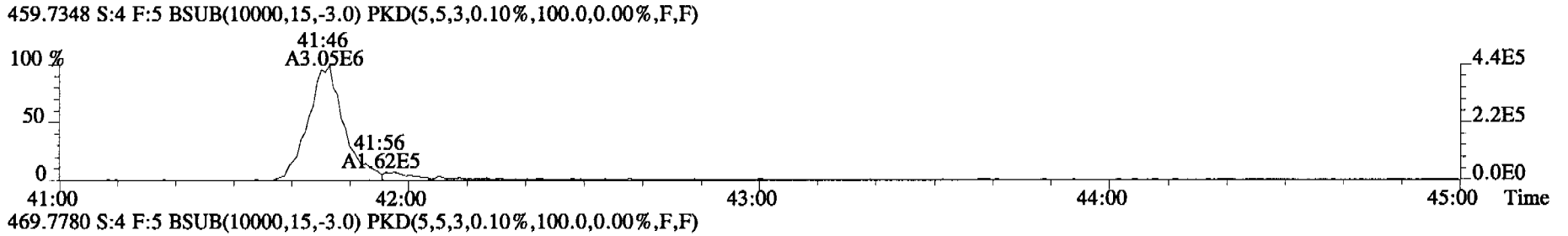
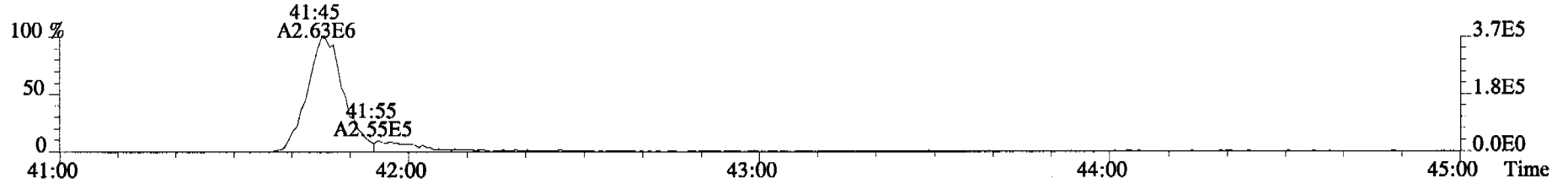
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



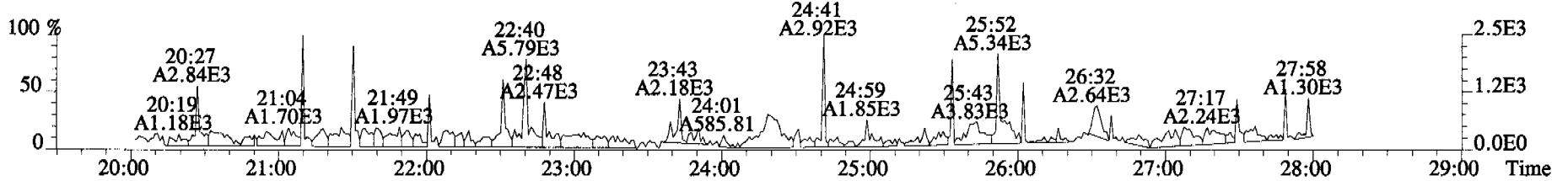
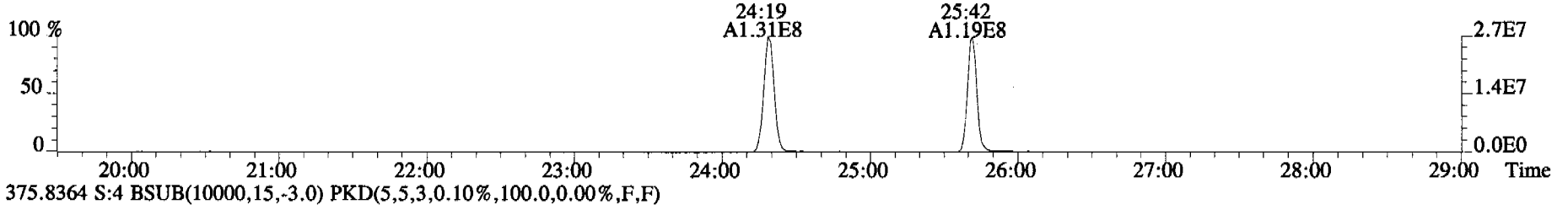
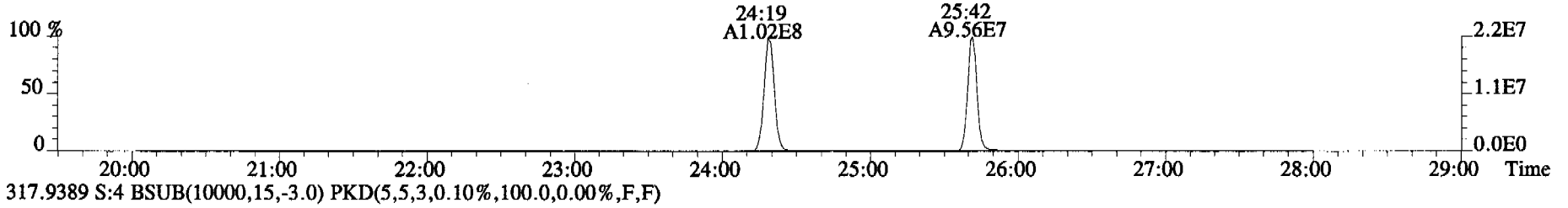
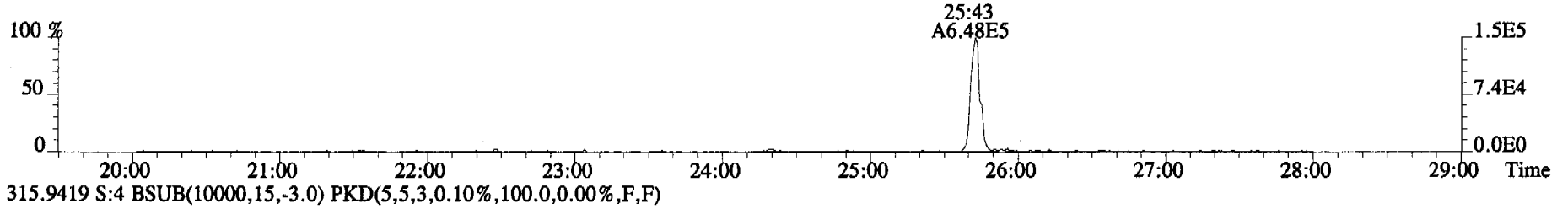
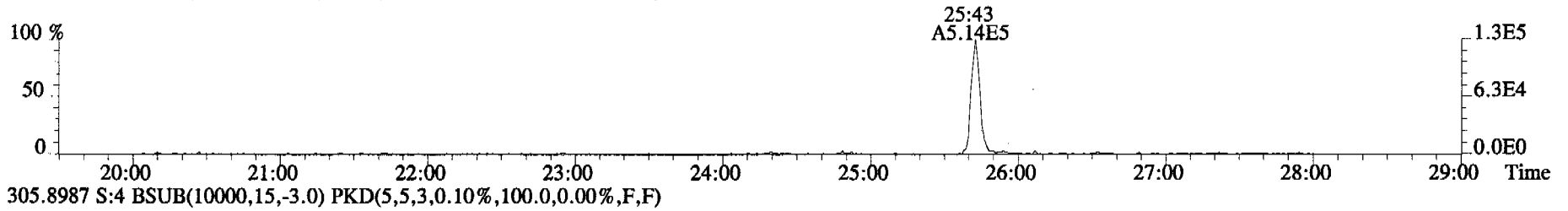
430.9728 S:4 F:4



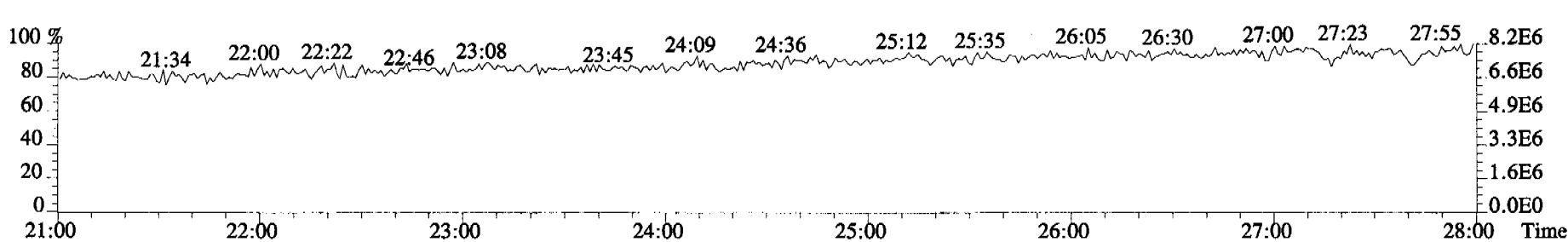
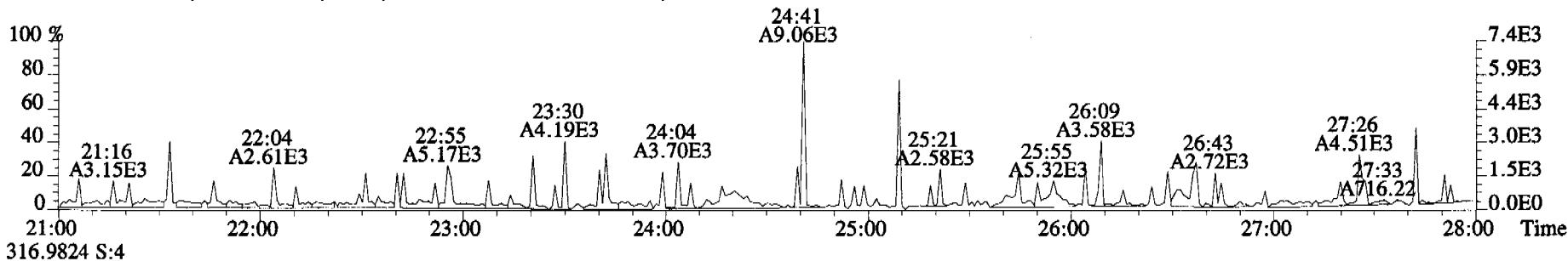
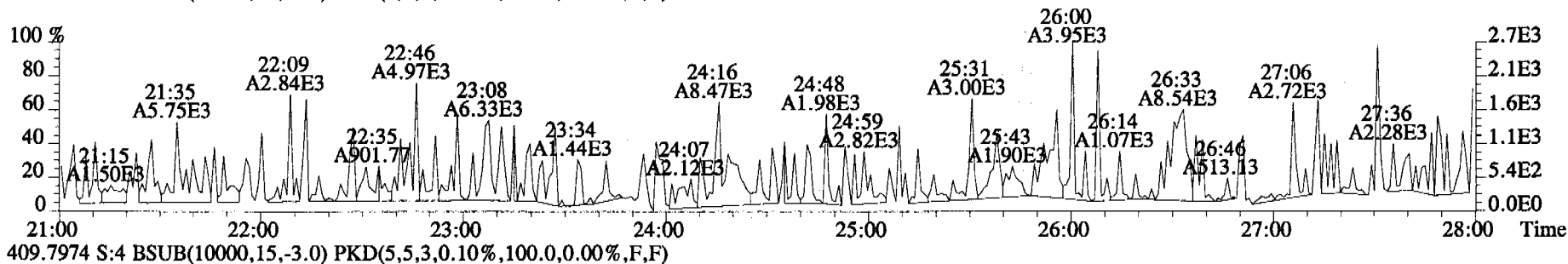
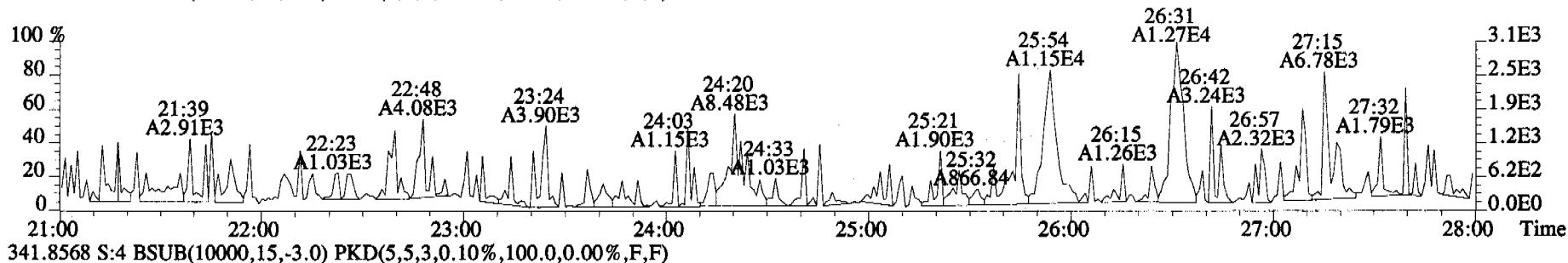
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



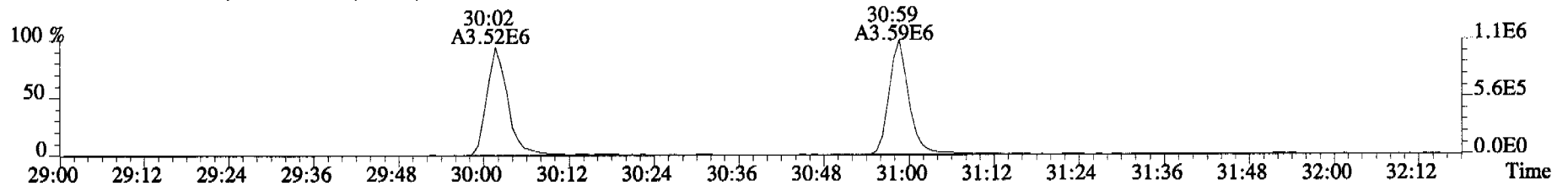
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



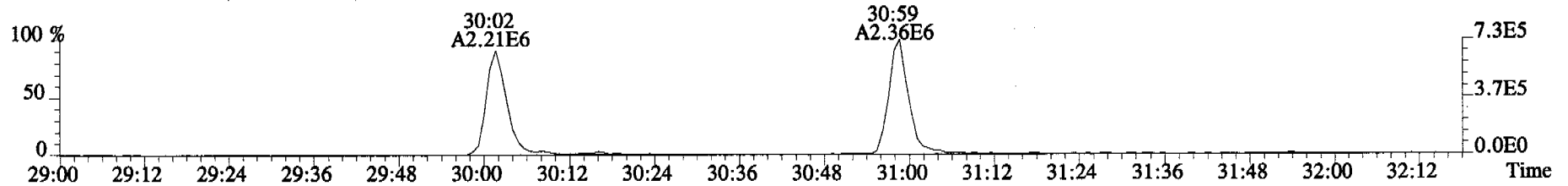
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



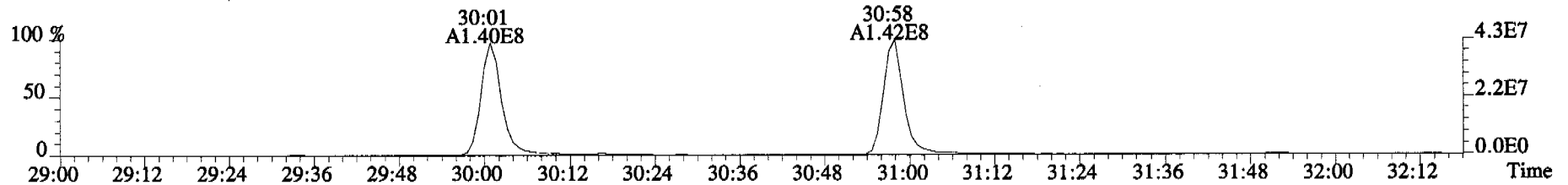
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



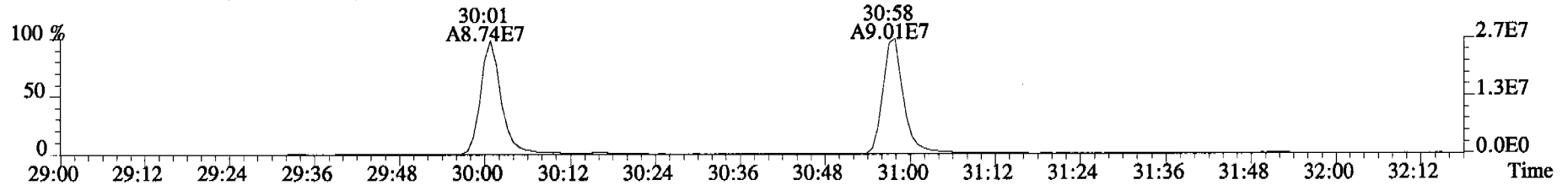
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



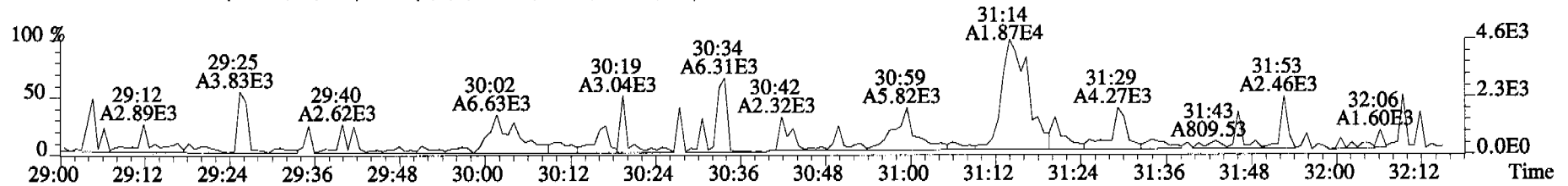
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



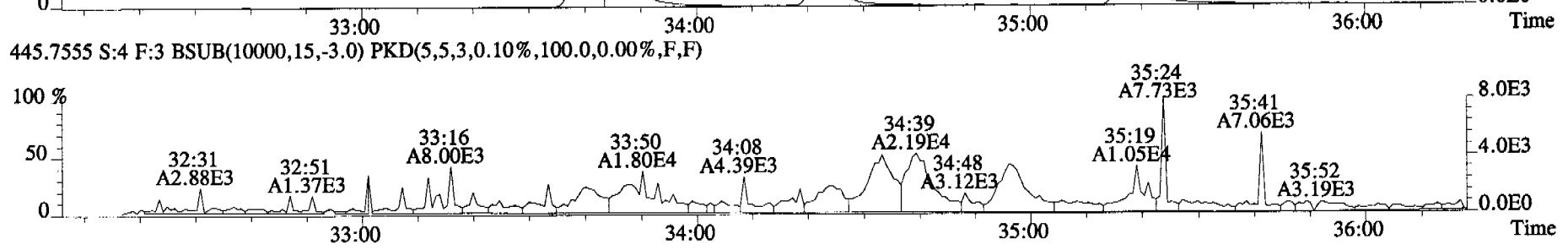
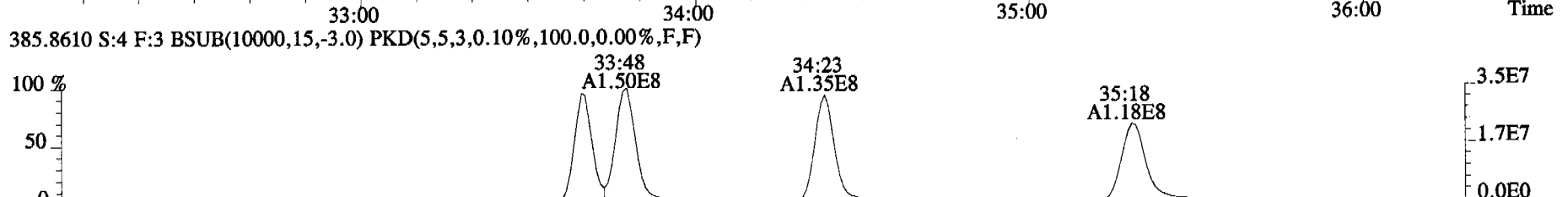
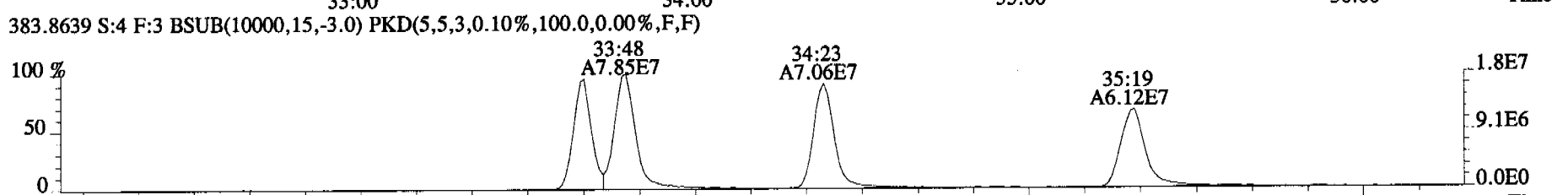
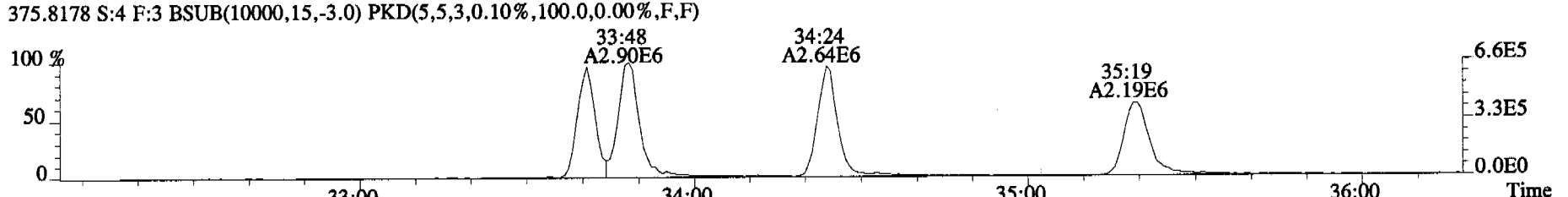
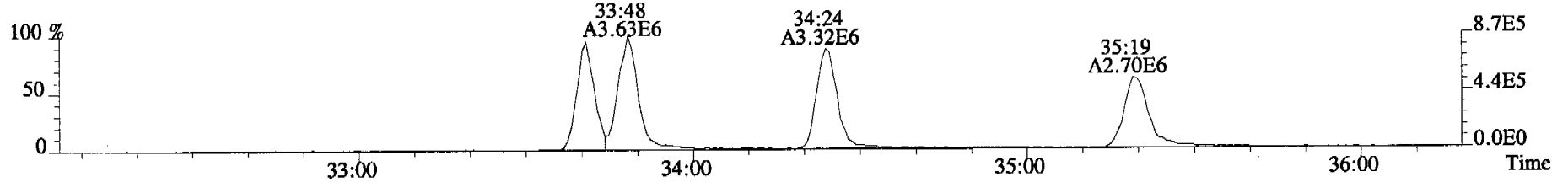
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



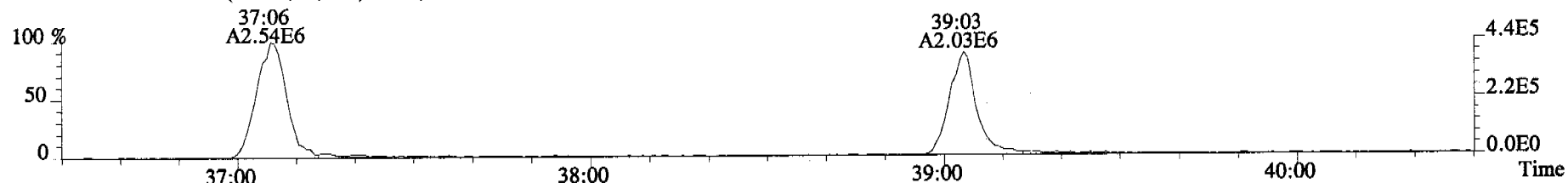
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



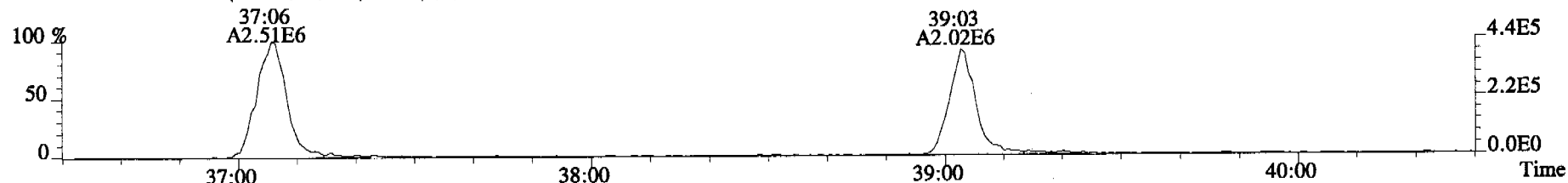
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



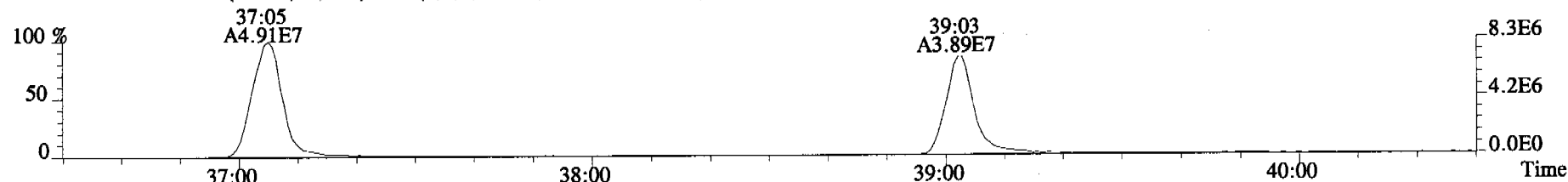
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



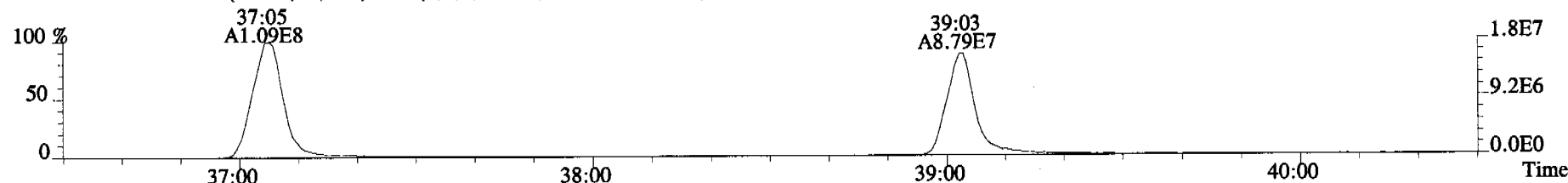
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



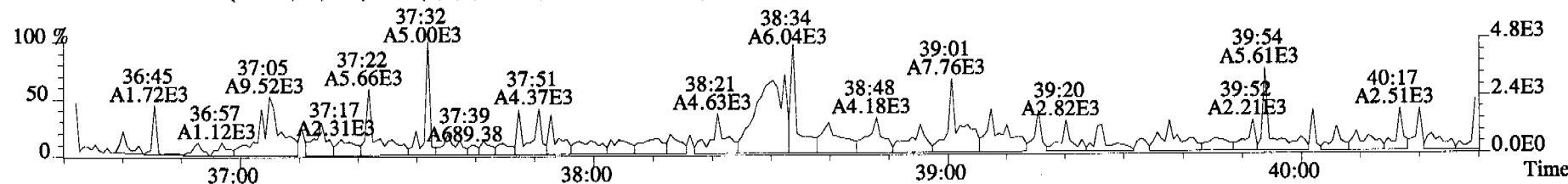
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



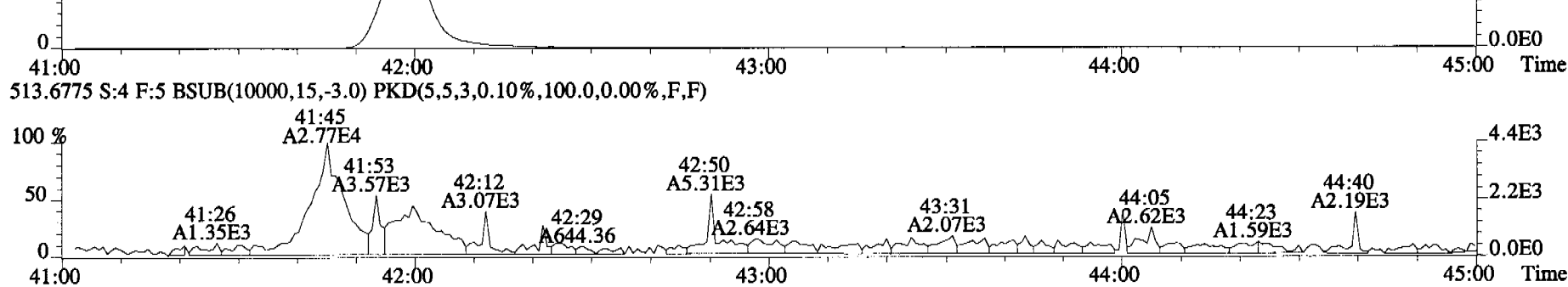
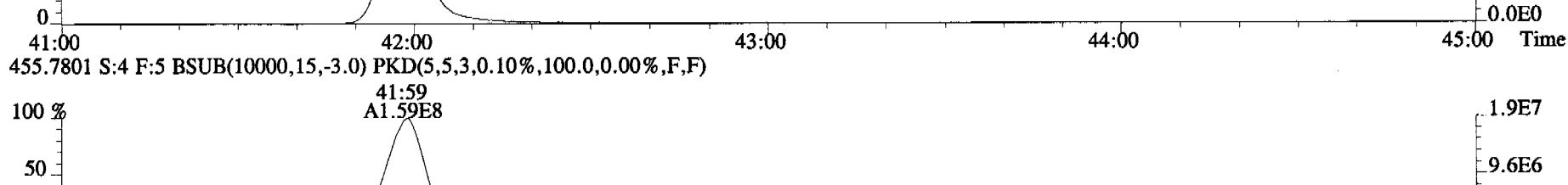
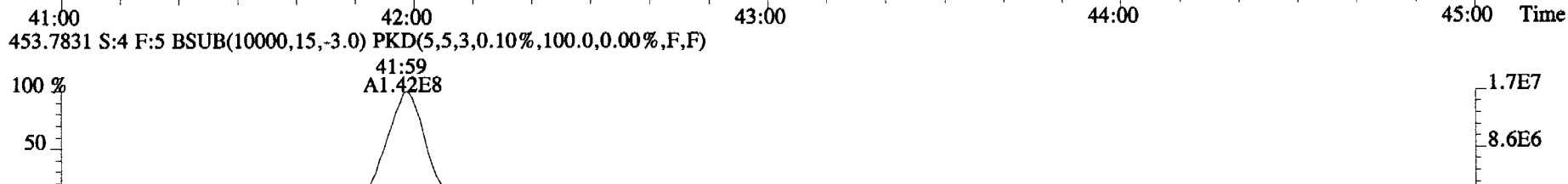
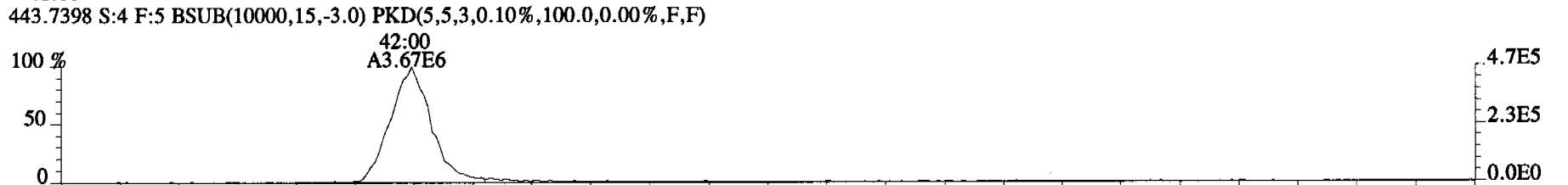
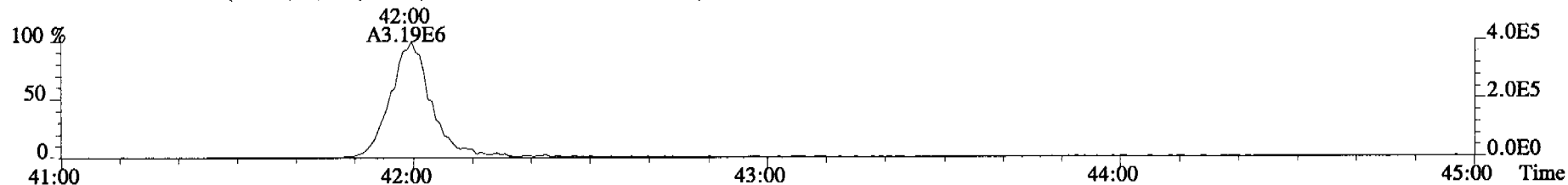
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



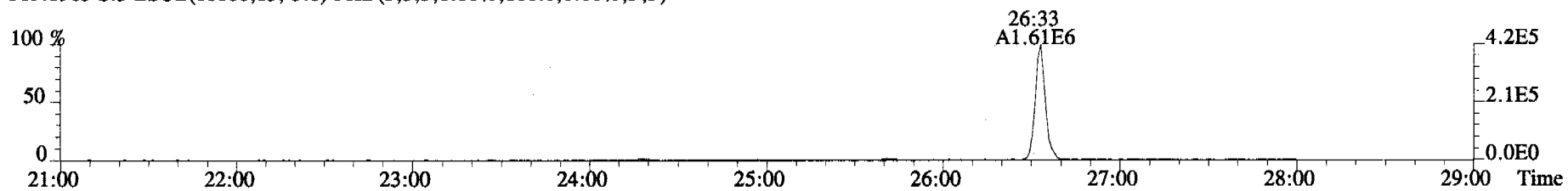
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



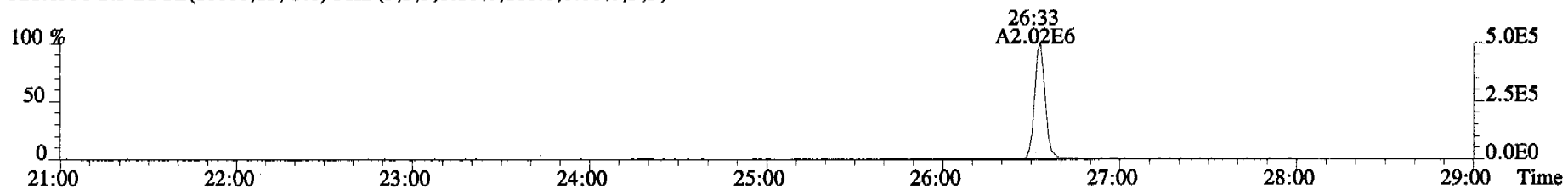
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



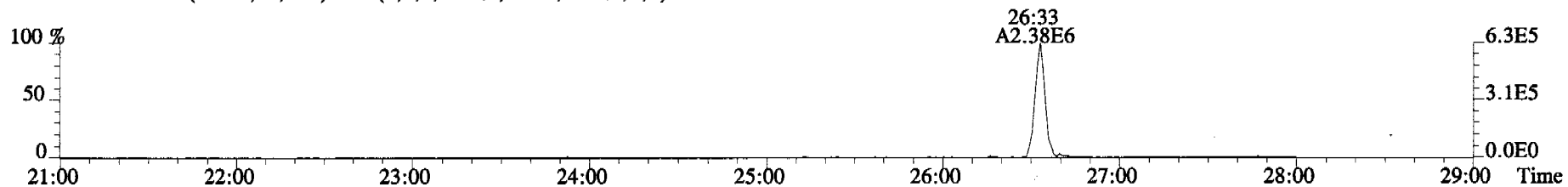
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



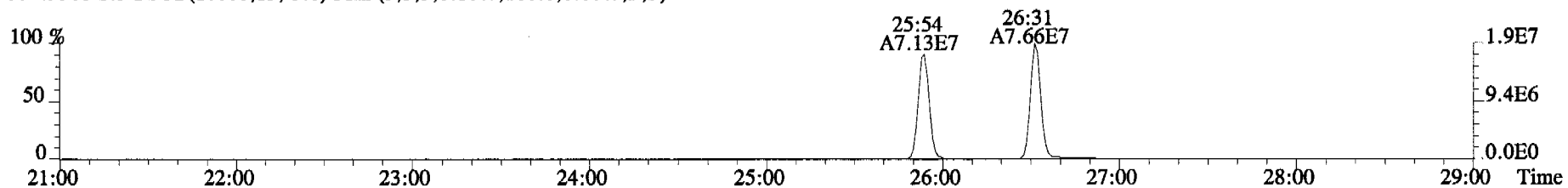
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



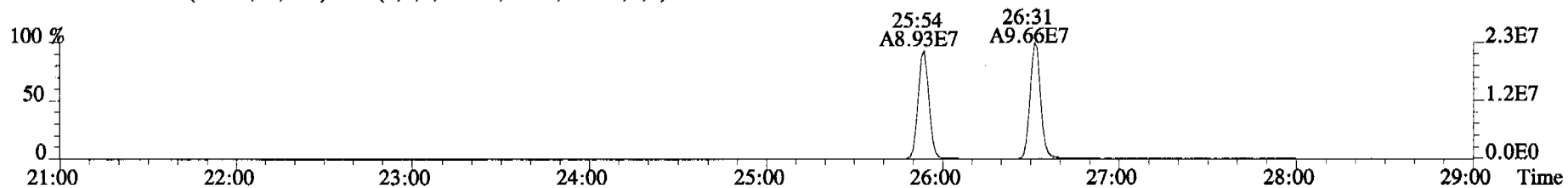
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



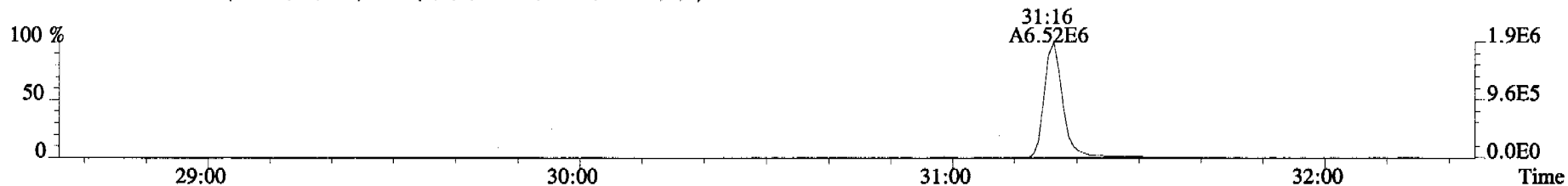
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



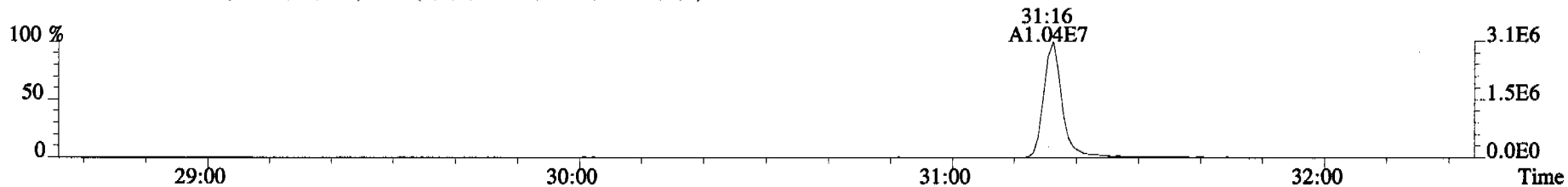
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



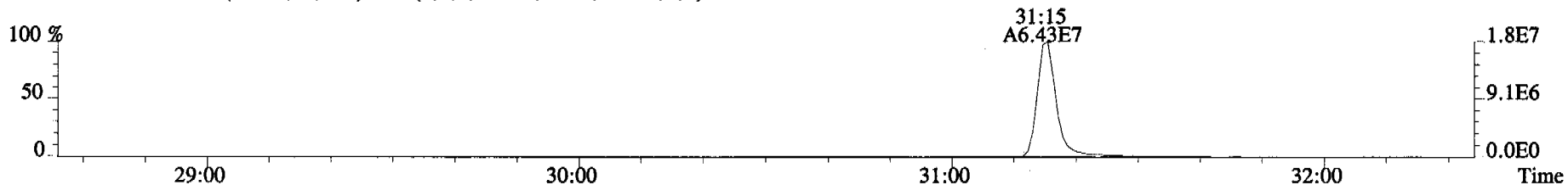
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



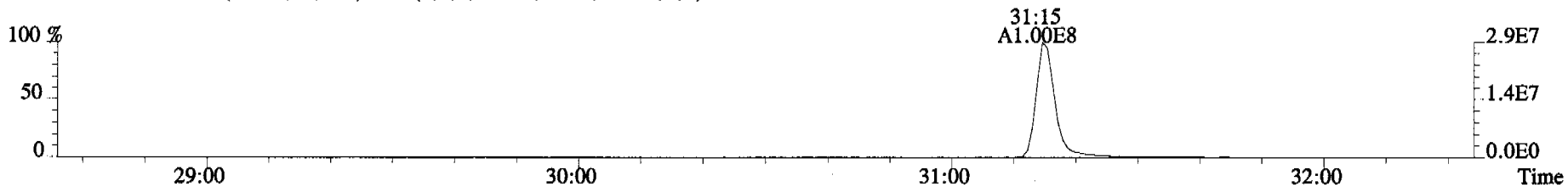
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



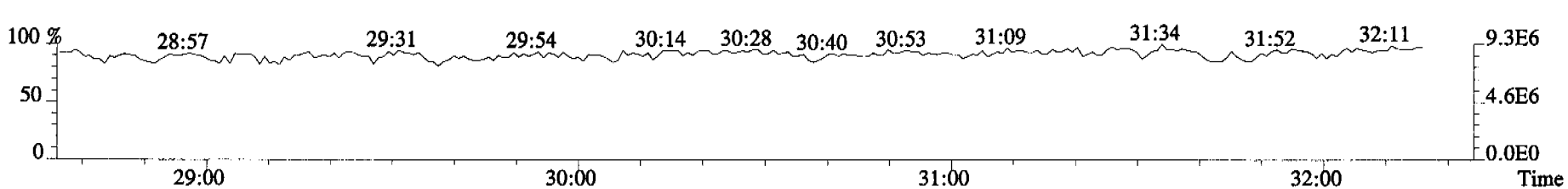
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



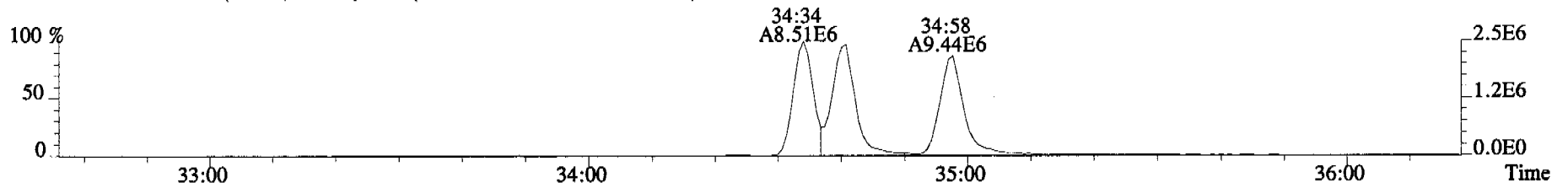
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



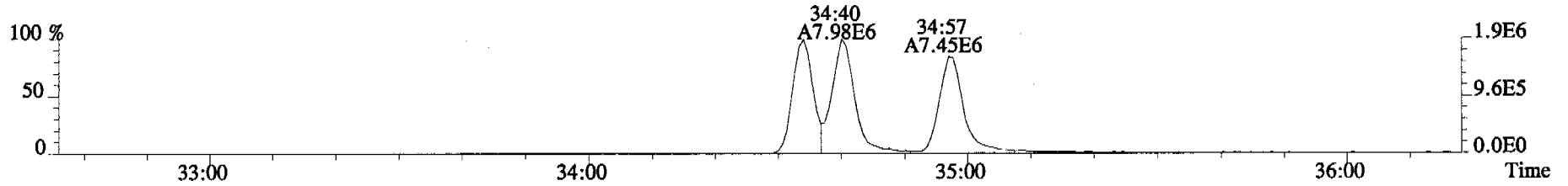
366.9792 S:5 F:2



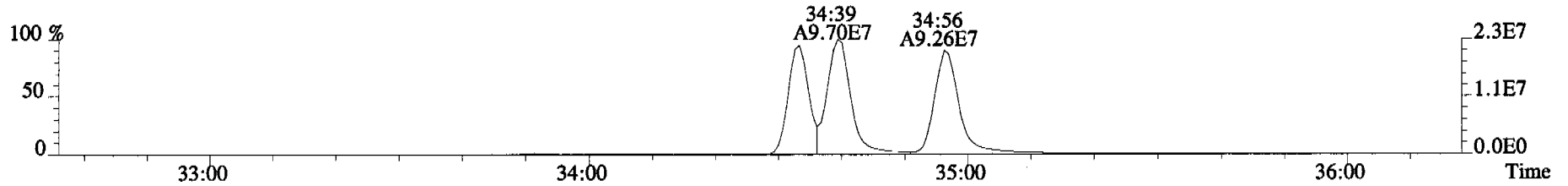
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



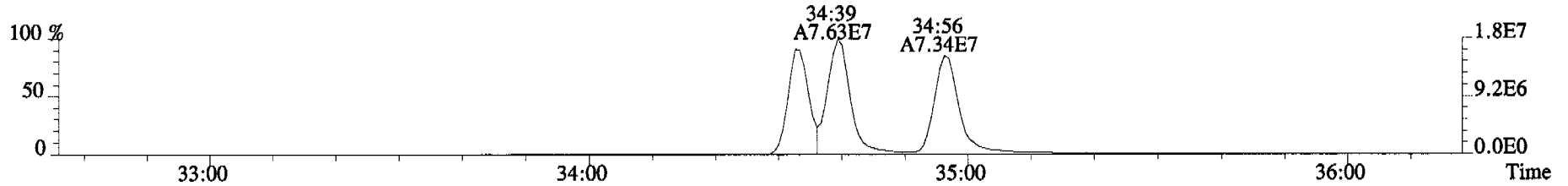
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



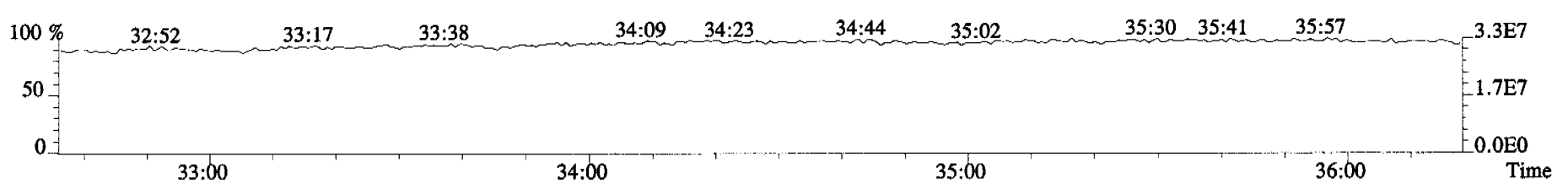
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



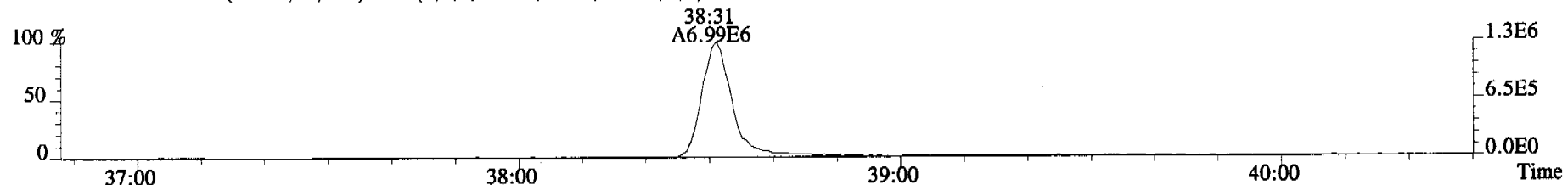
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



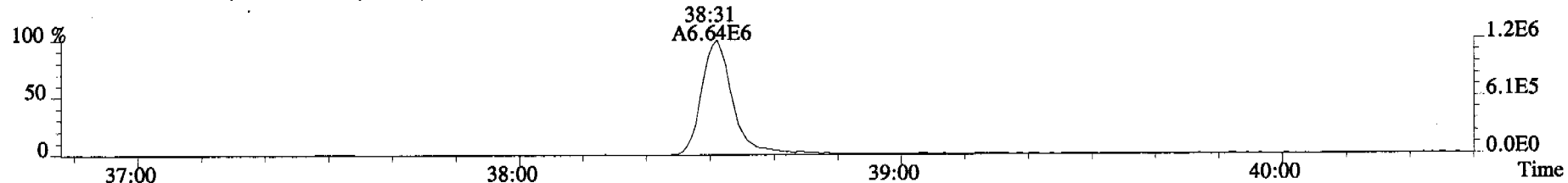
380.9760 S:5 F:3



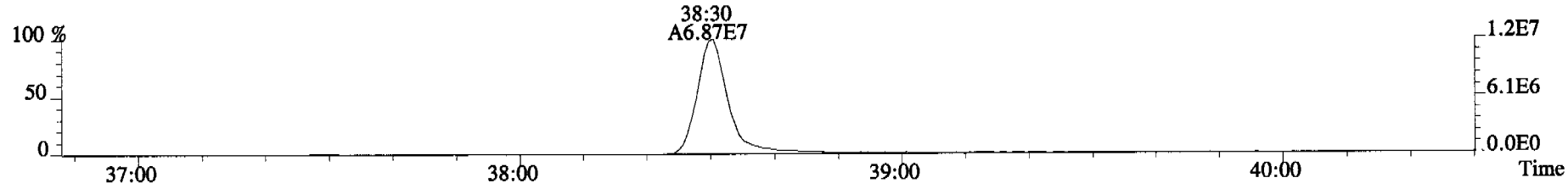
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



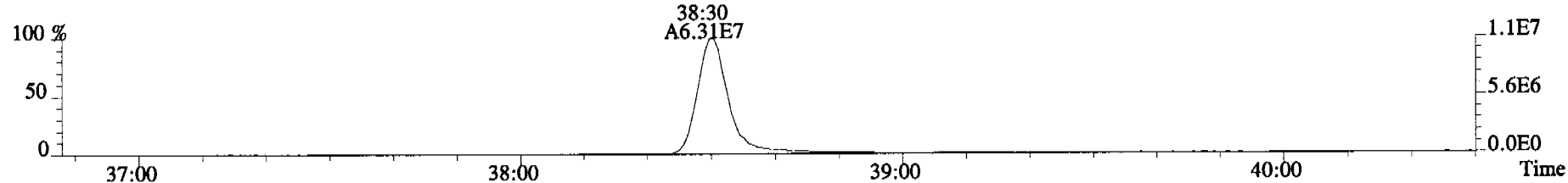
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



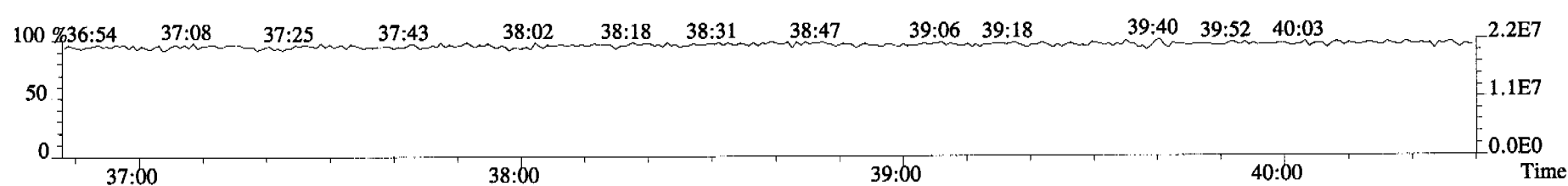
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



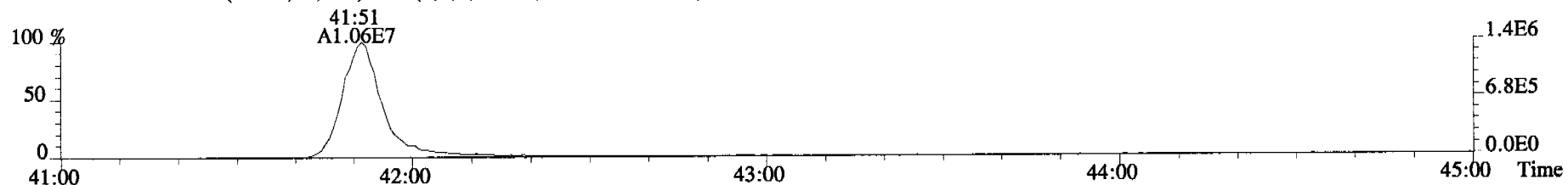
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



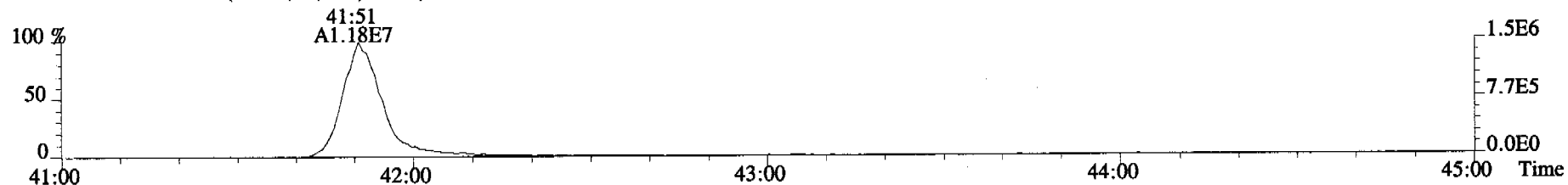
430.9728 S:5 F:4



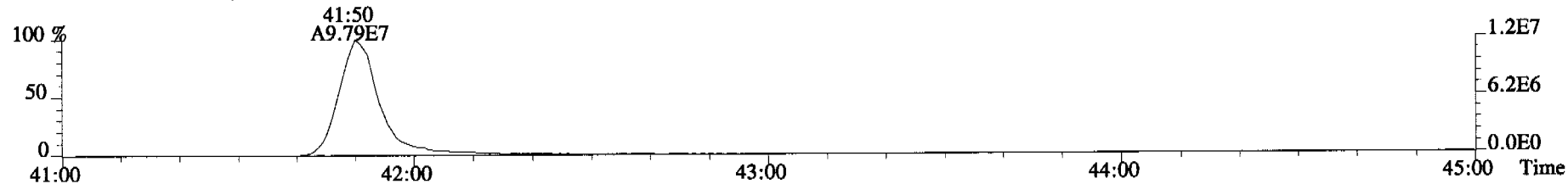
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



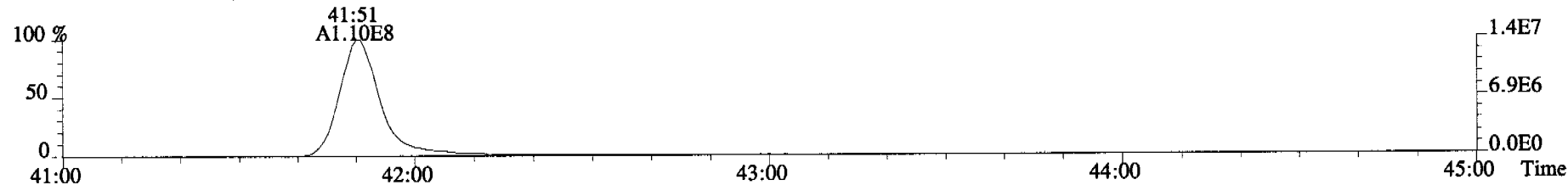
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



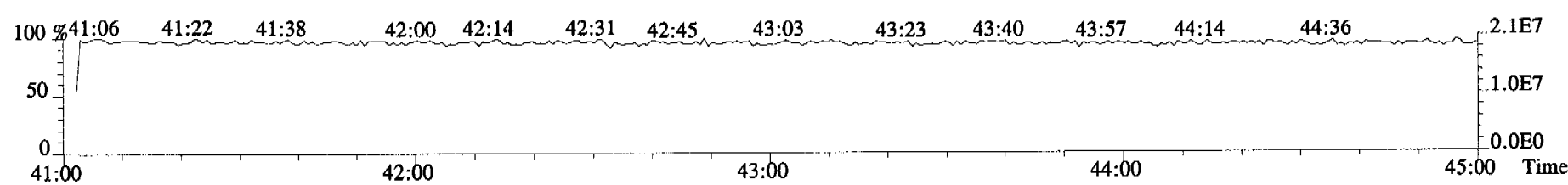
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



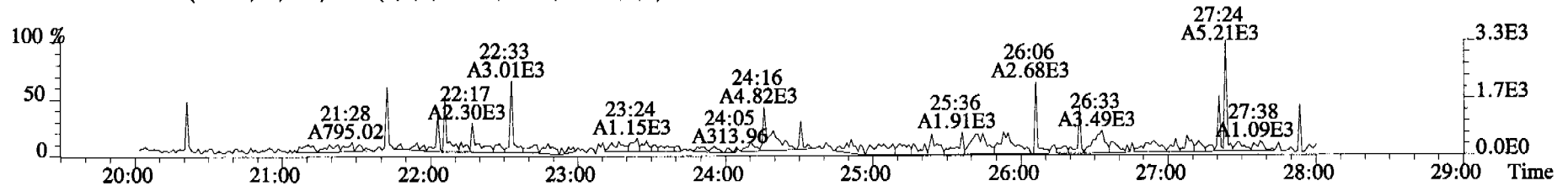
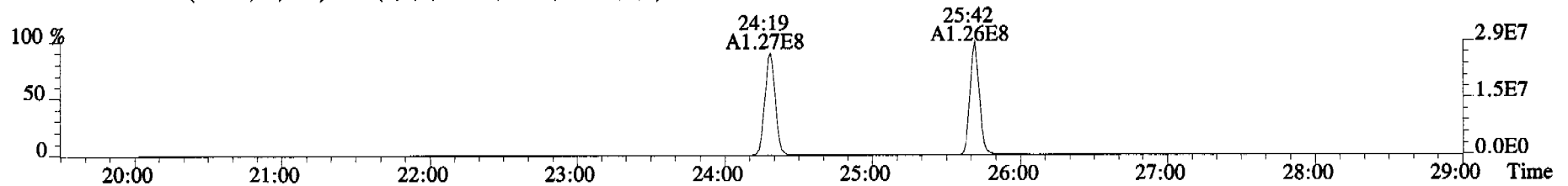
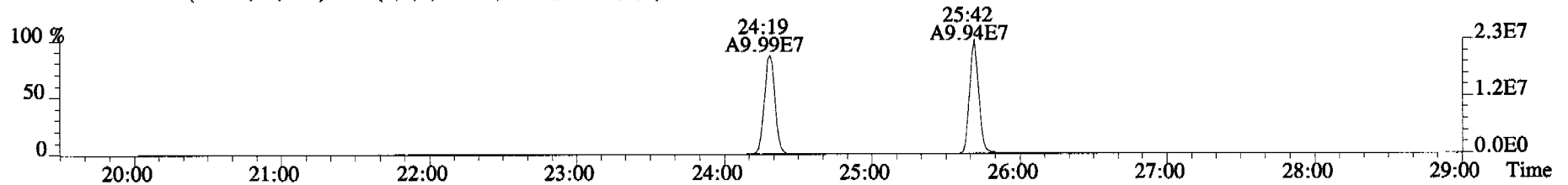
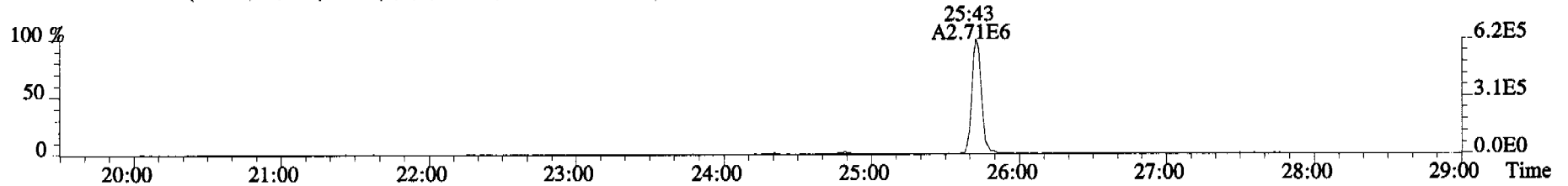
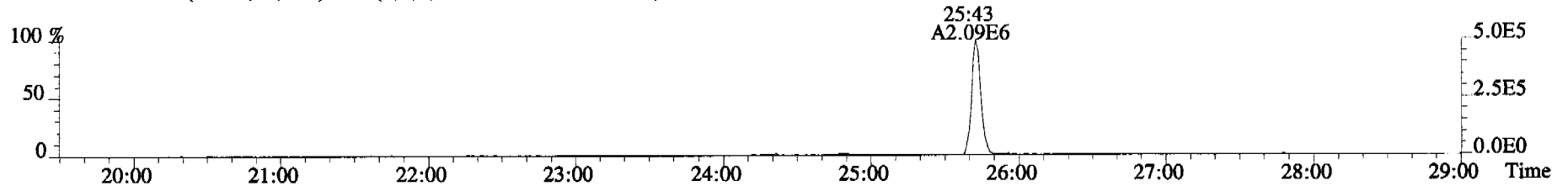
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



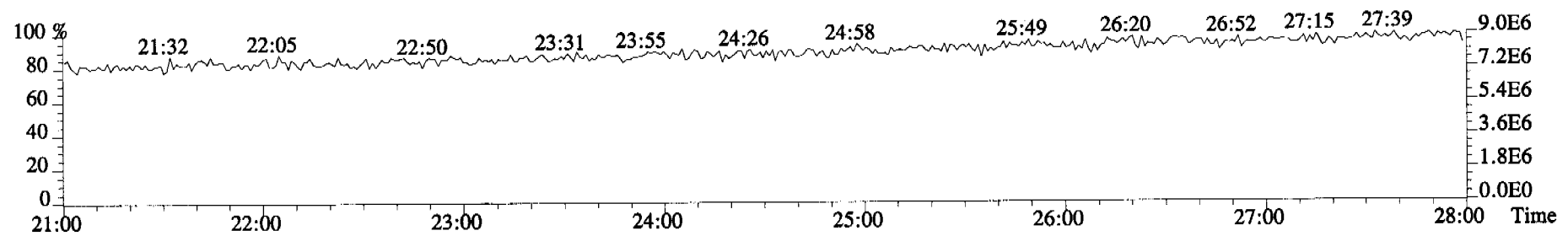
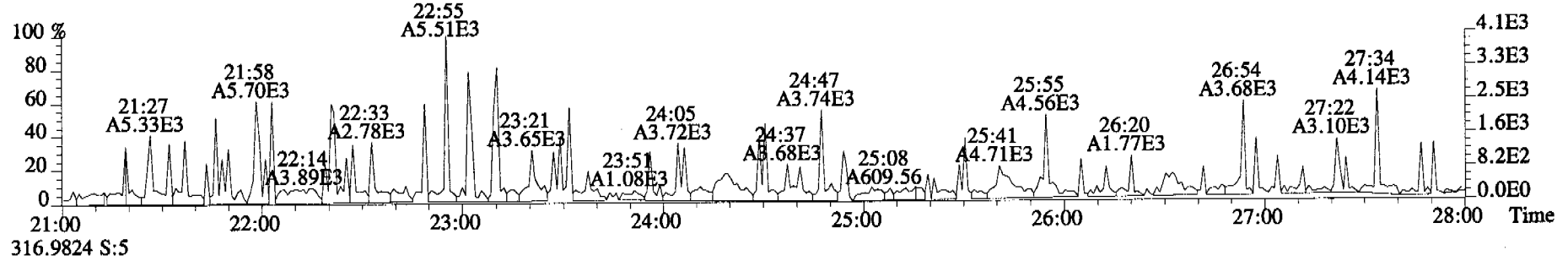
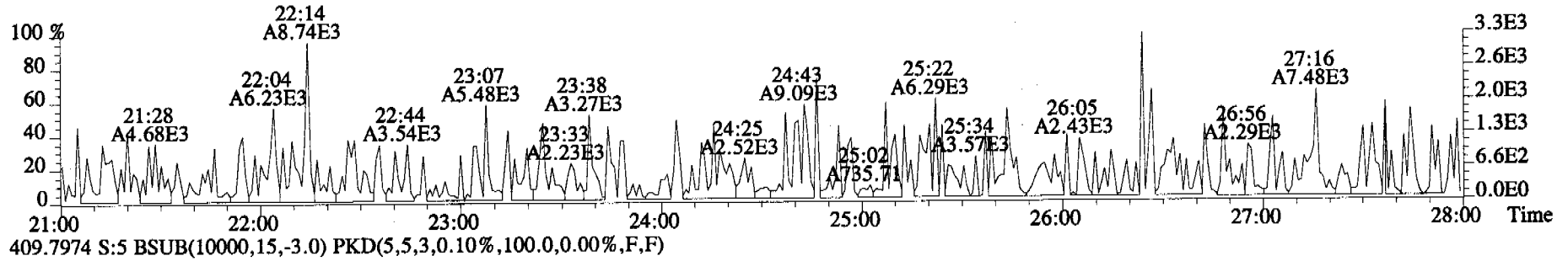
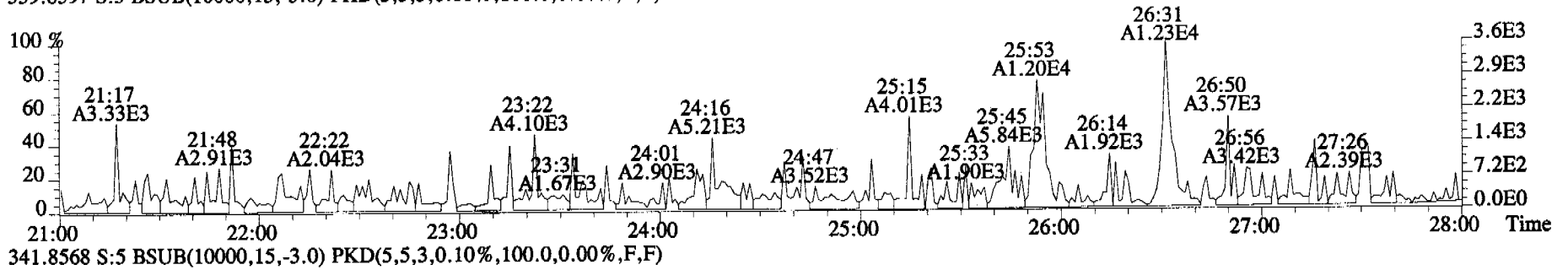
454.9728 S:5 F:5



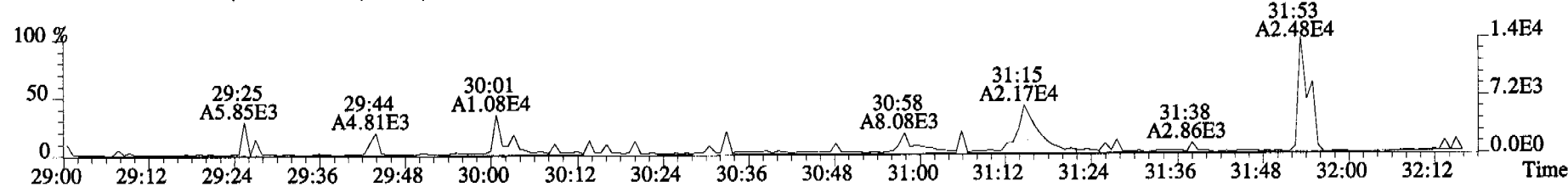
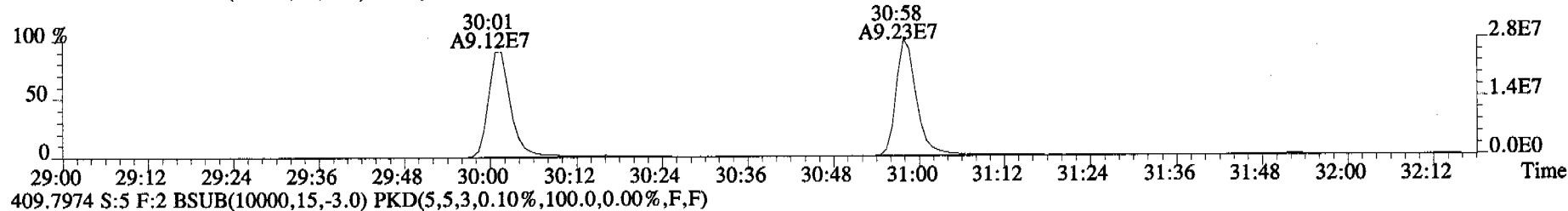
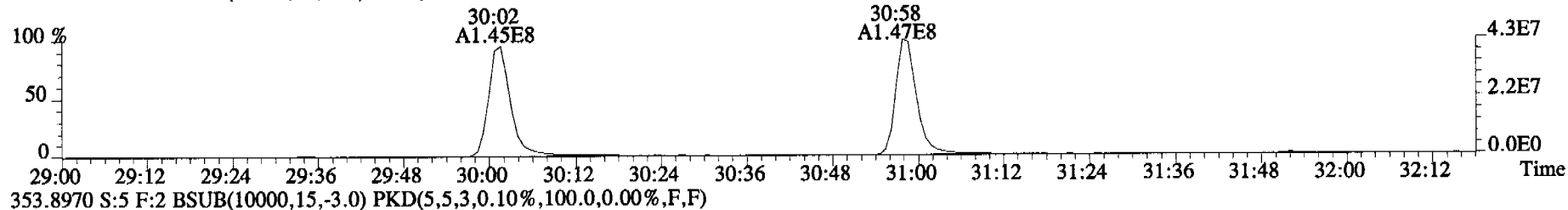
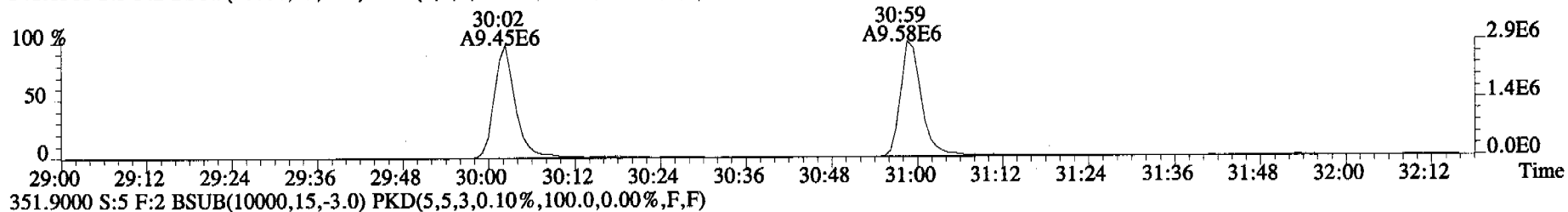
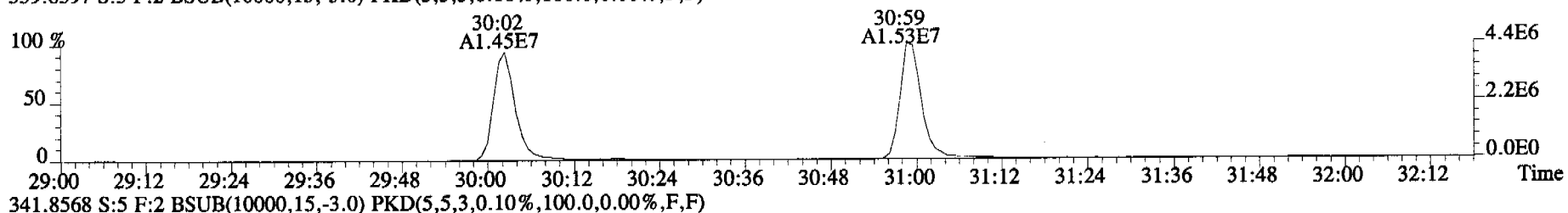
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



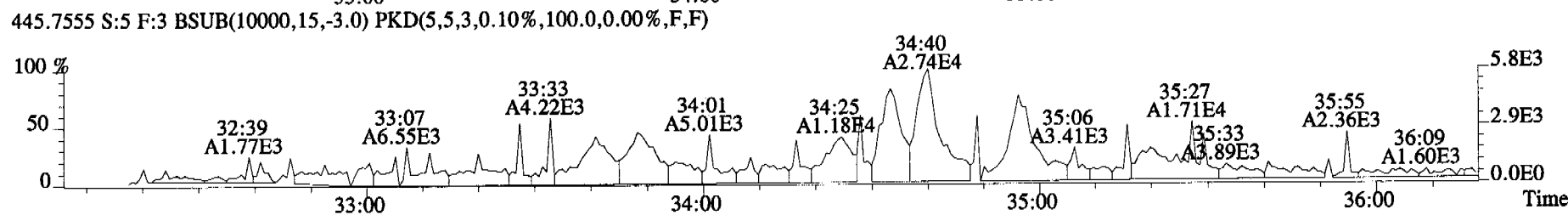
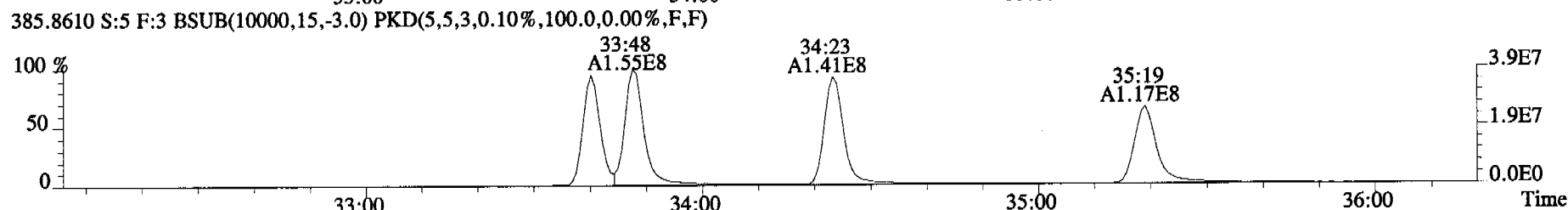
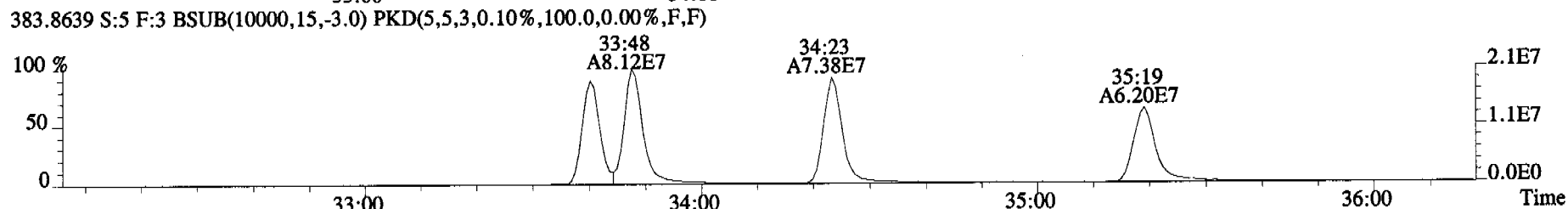
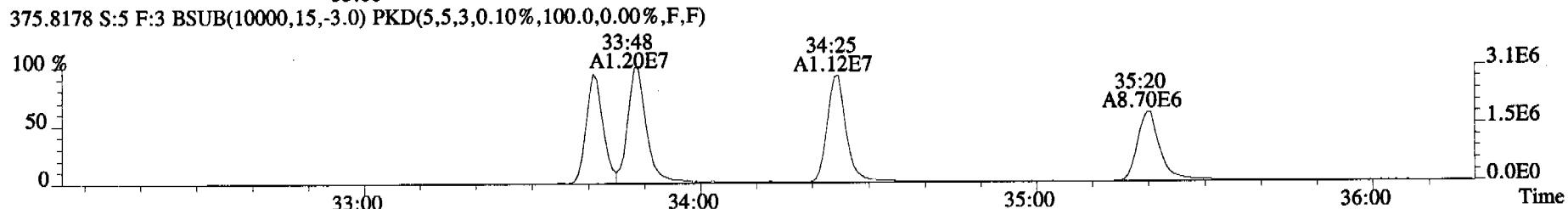
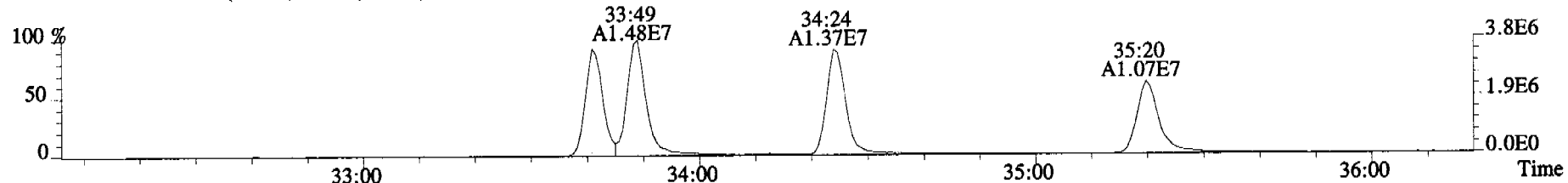
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



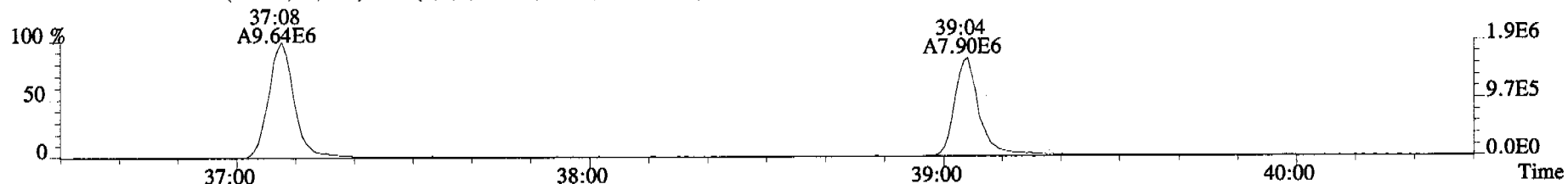
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



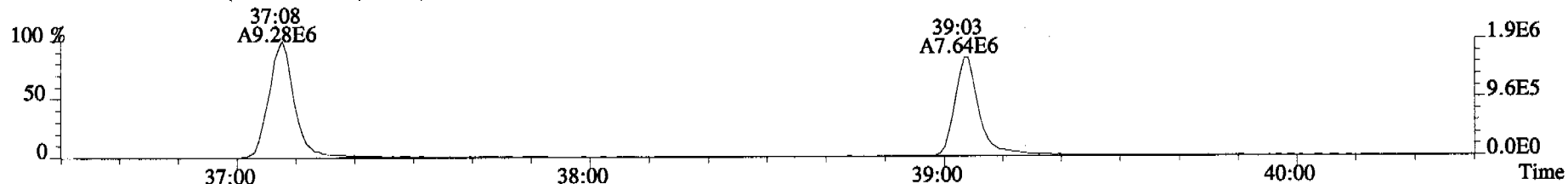
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



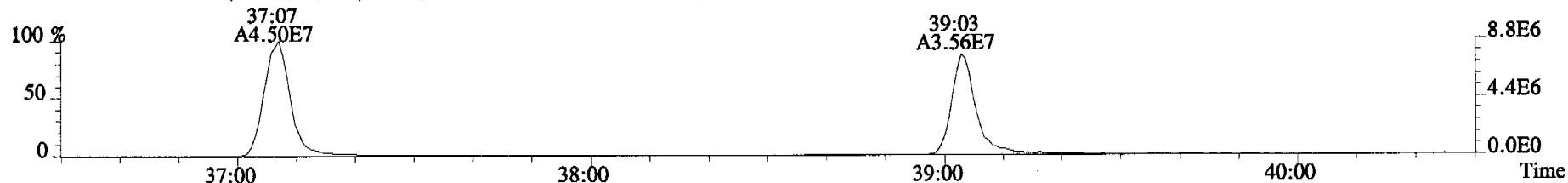
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



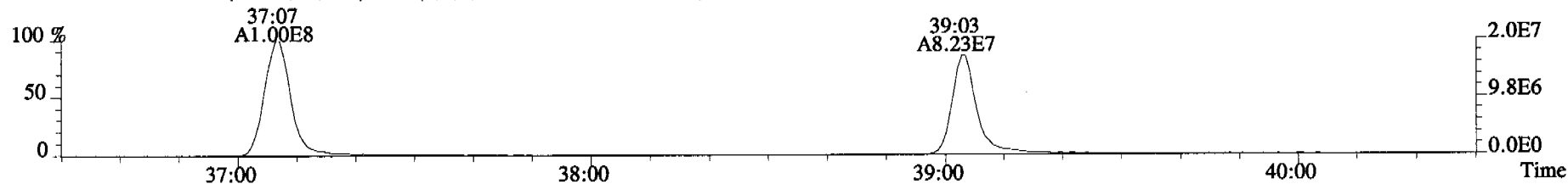
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



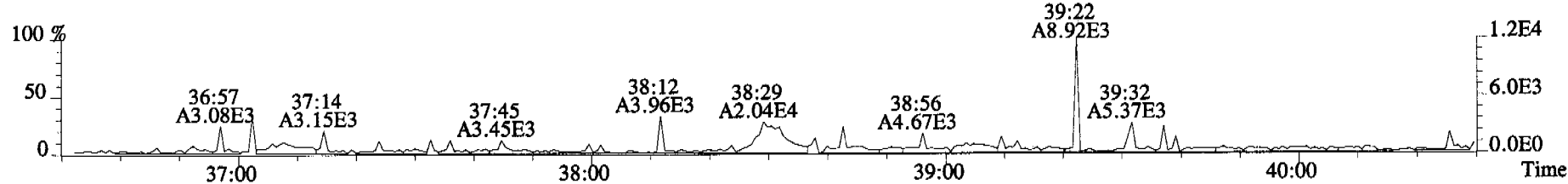
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



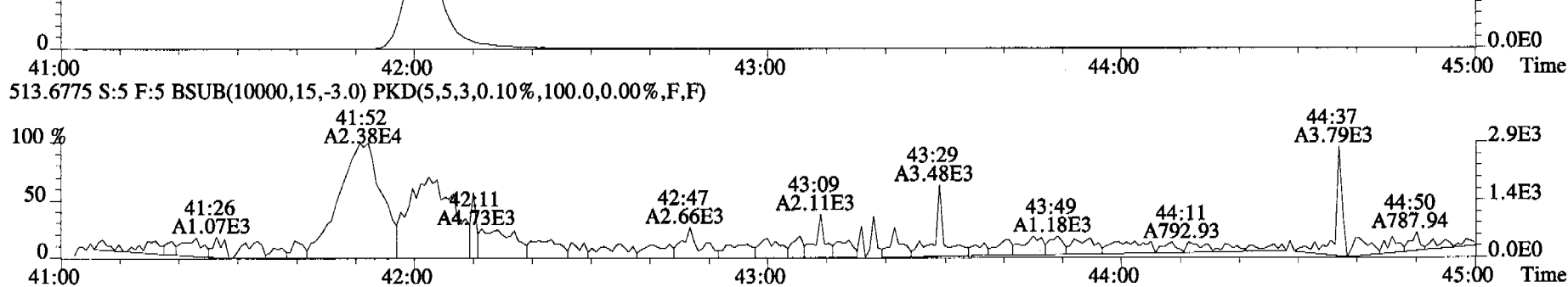
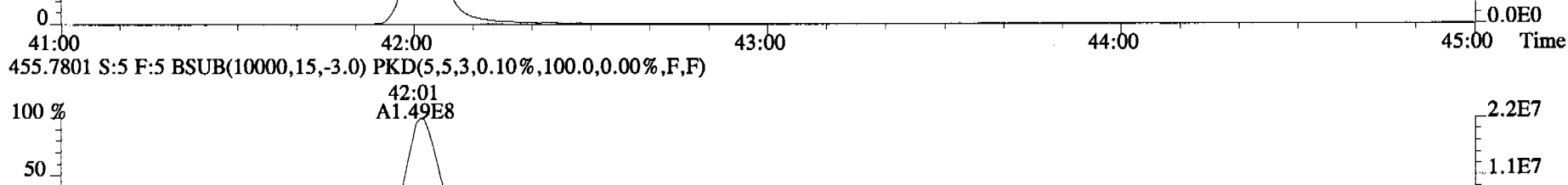
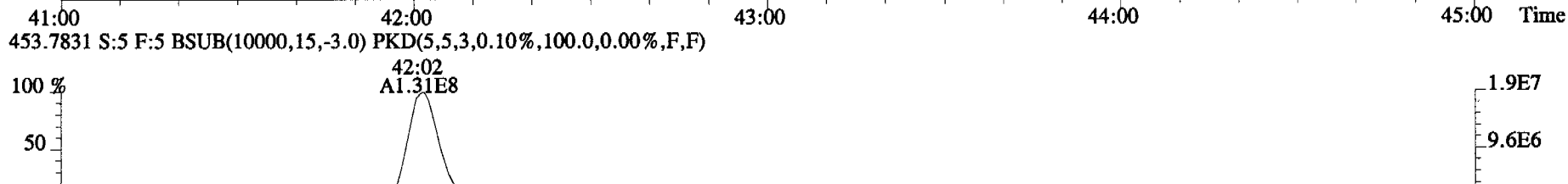
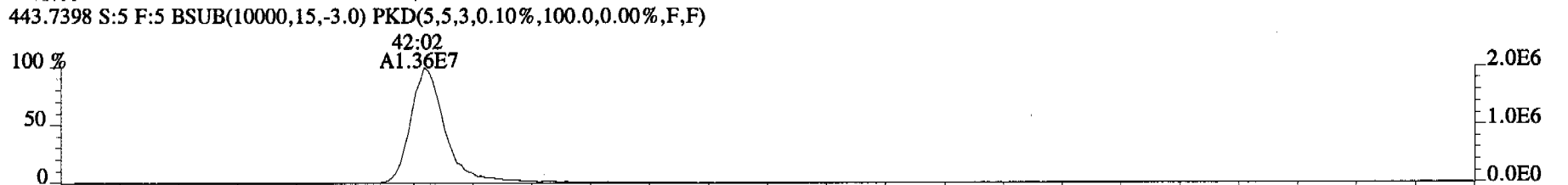
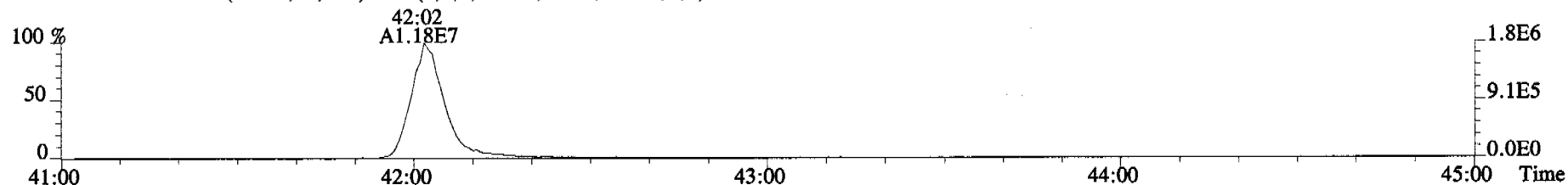
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



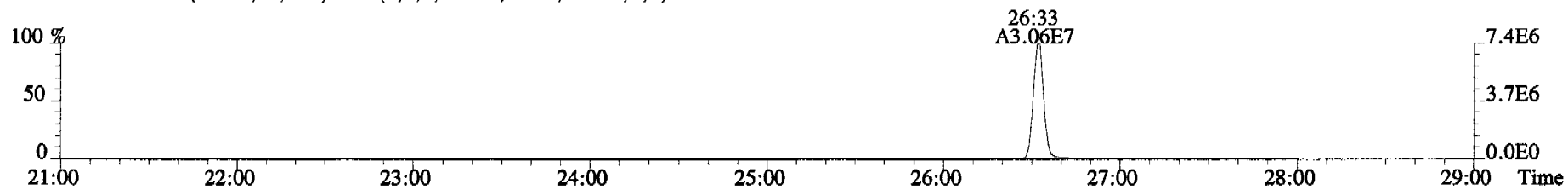
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



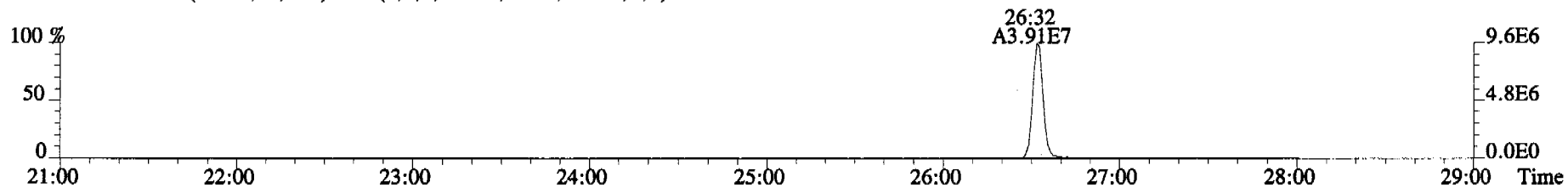
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



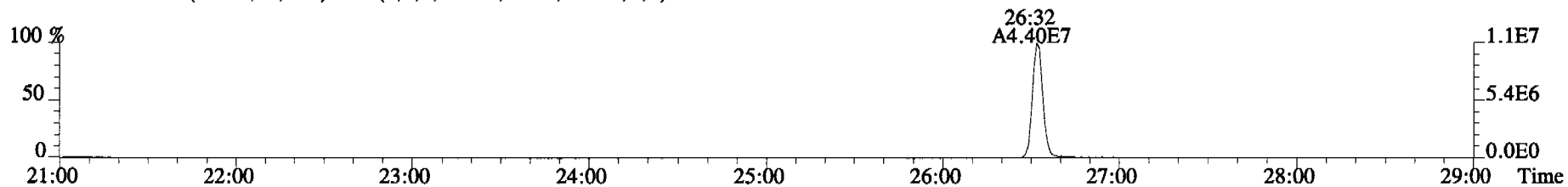
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



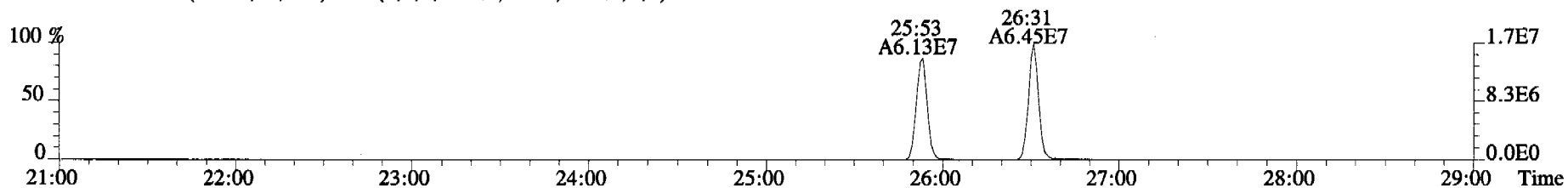
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



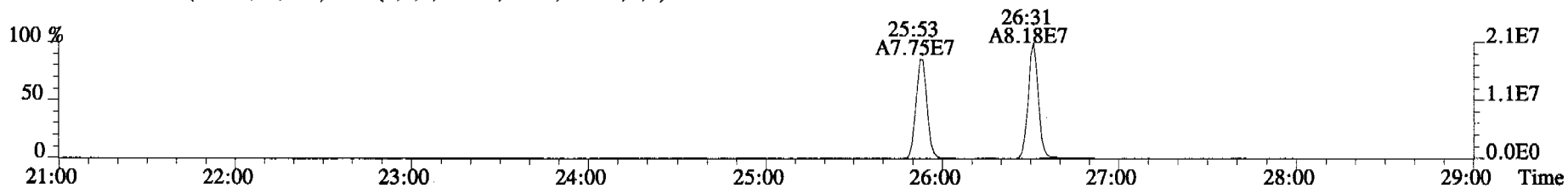
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



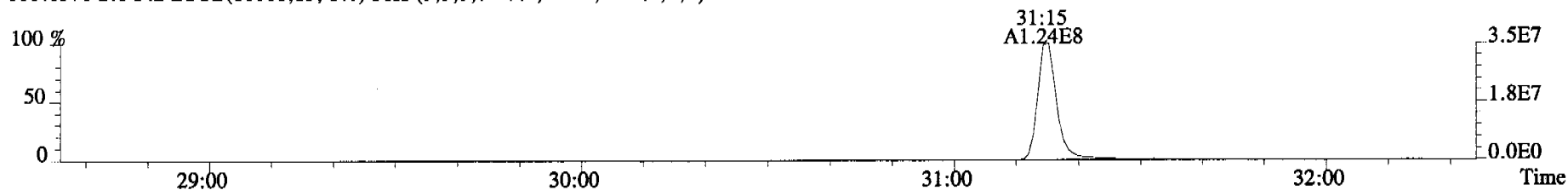
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



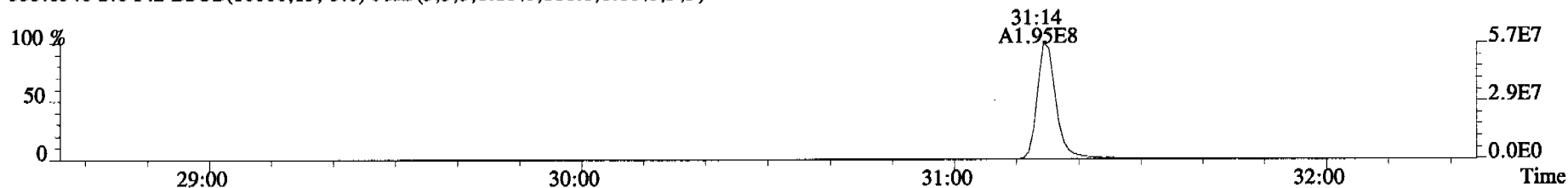
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



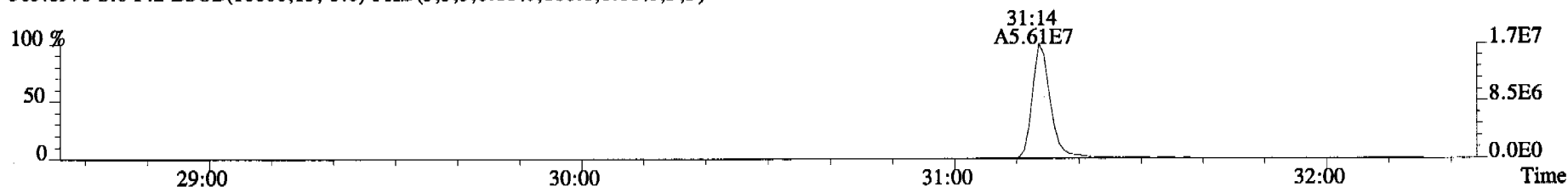
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



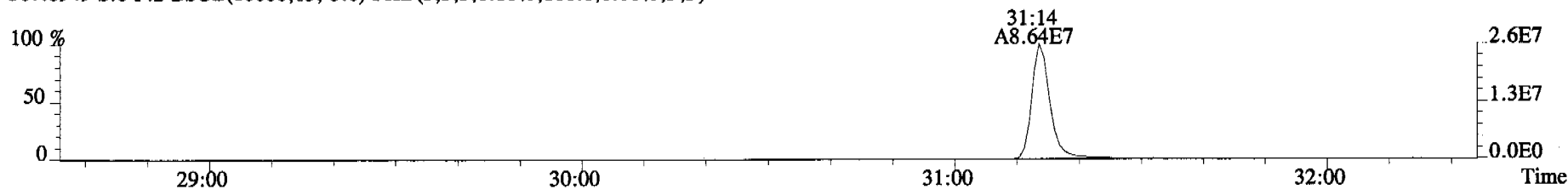
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



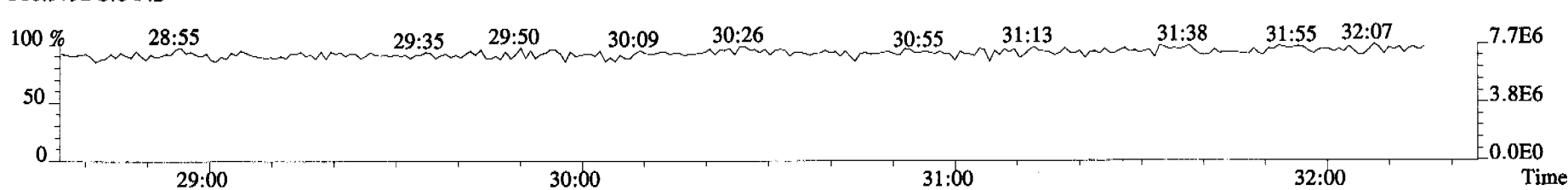
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



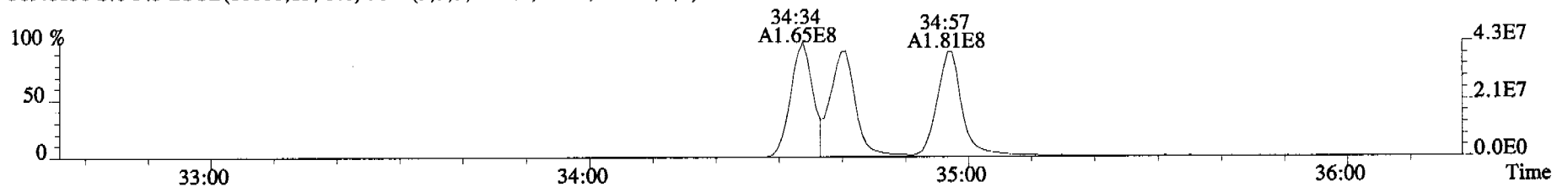
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



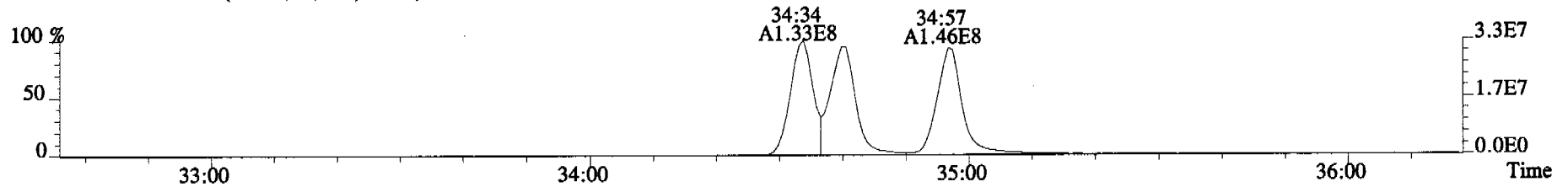
366.9792 S:6 F:2



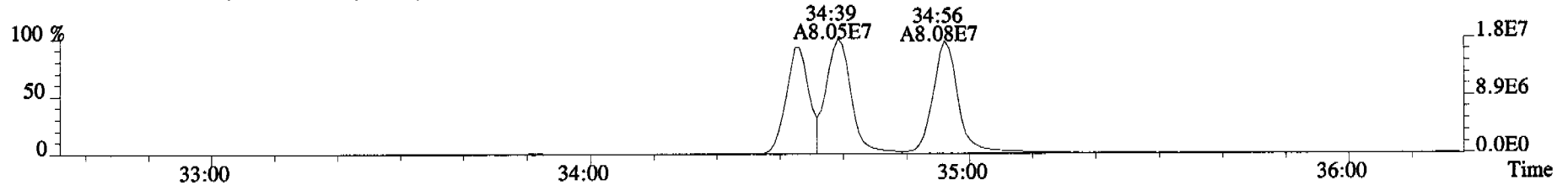
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 0601101 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



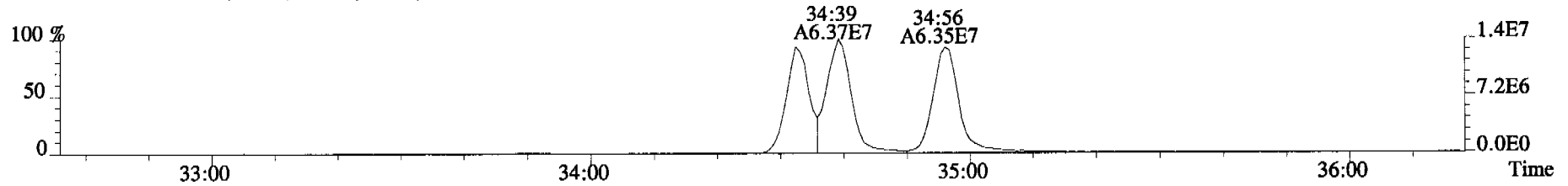
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



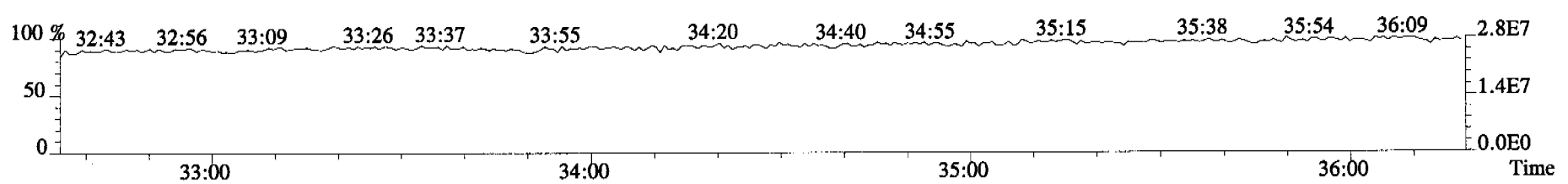
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



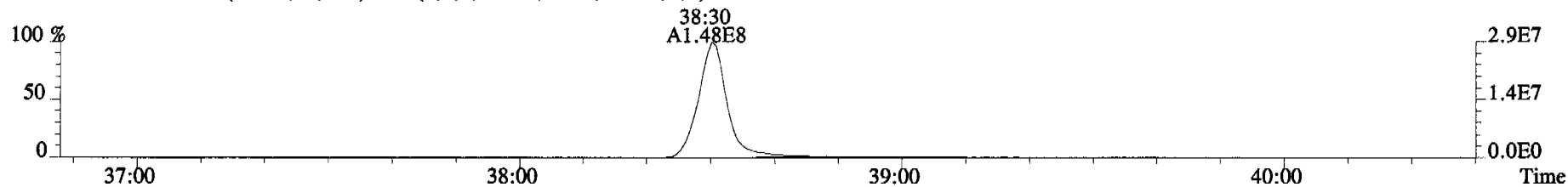
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



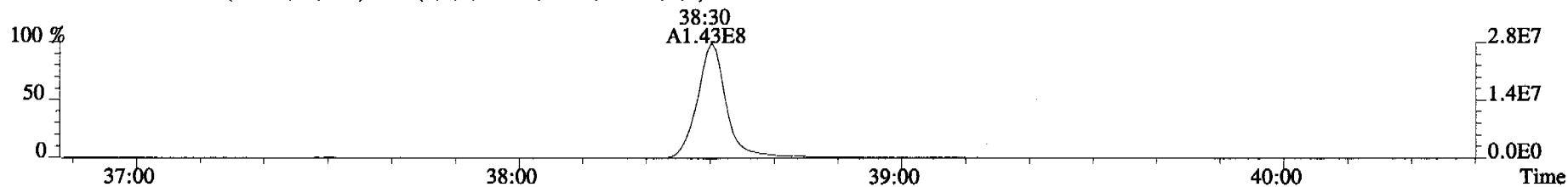
380.9760 S:6 F:3



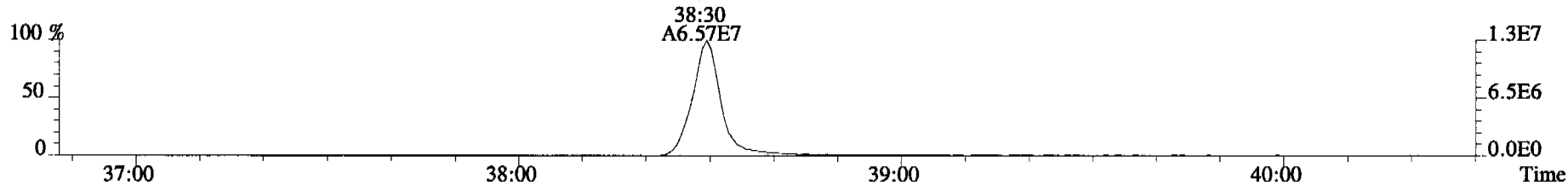
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



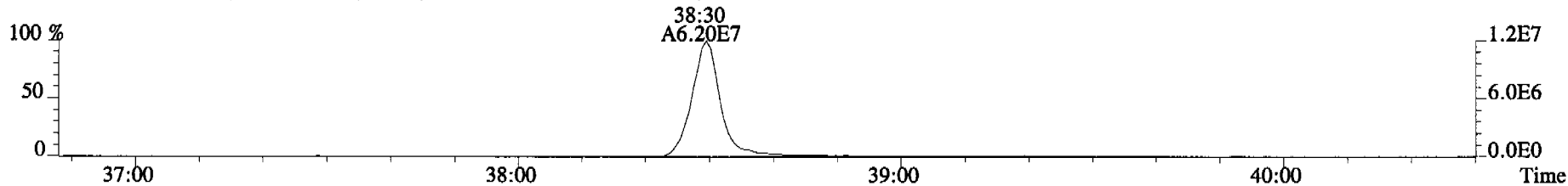
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



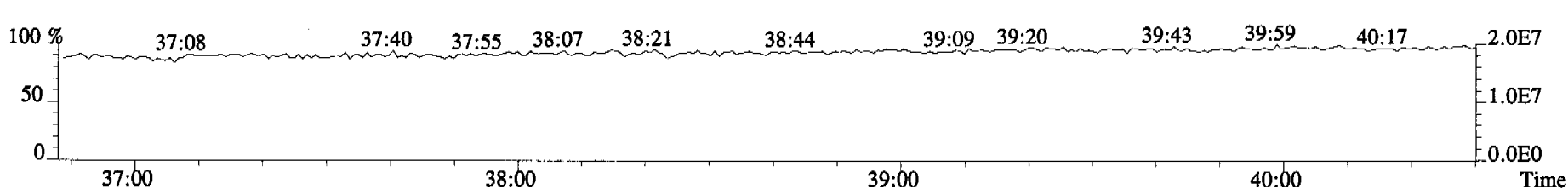
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



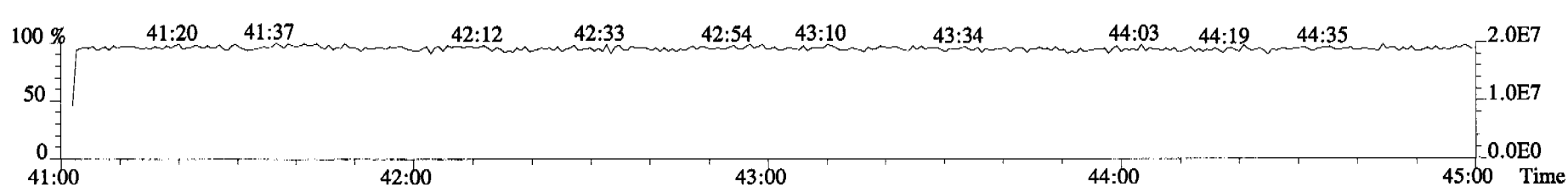
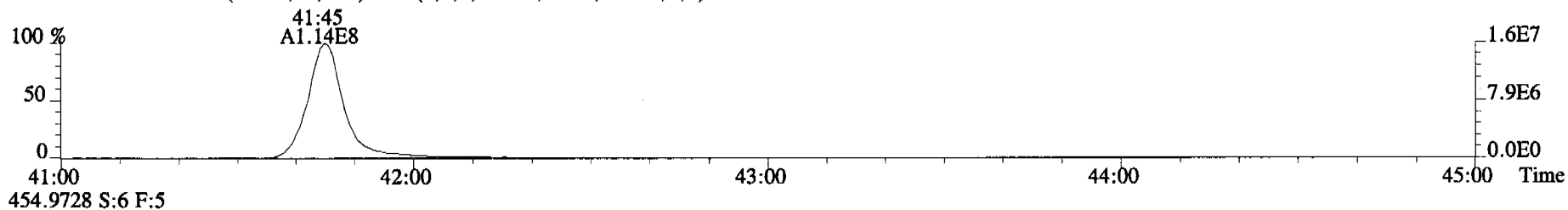
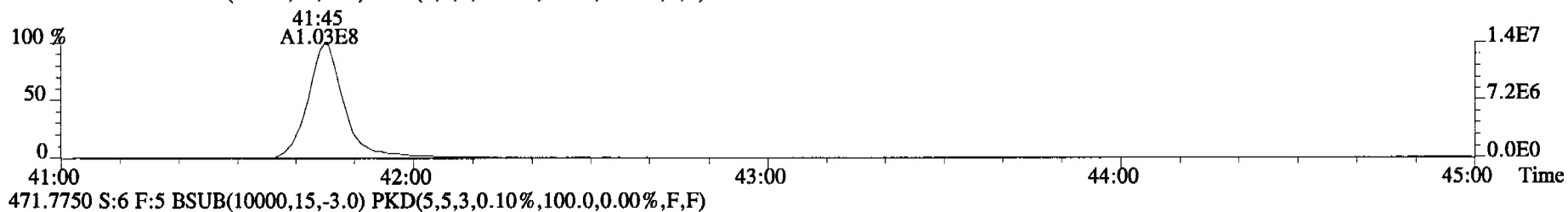
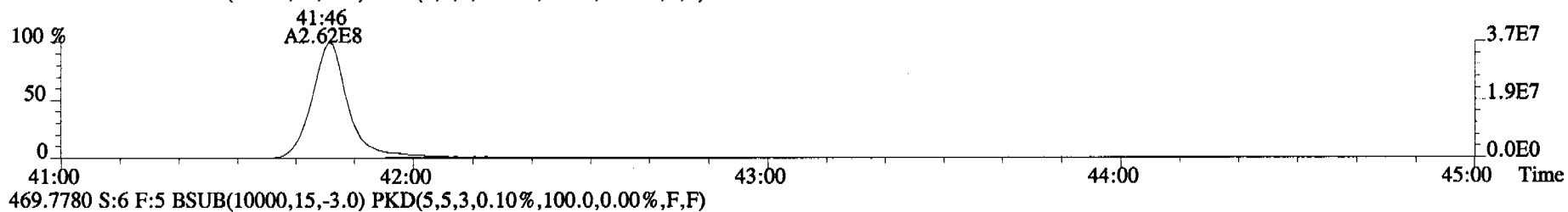
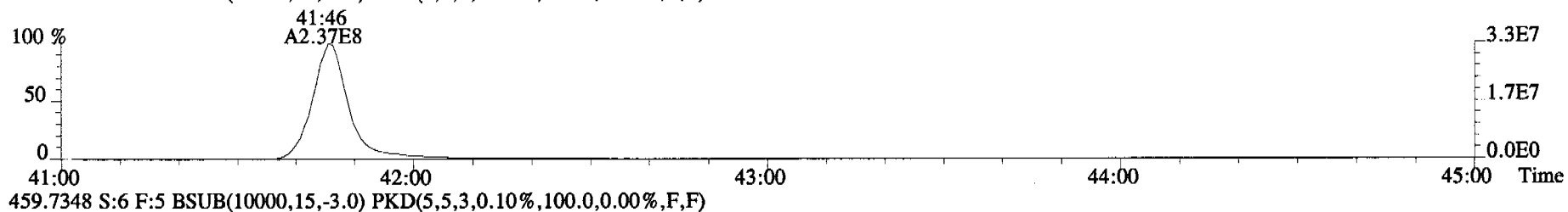
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



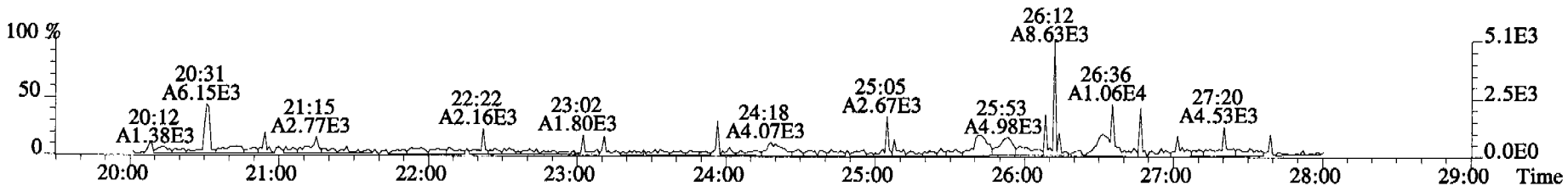
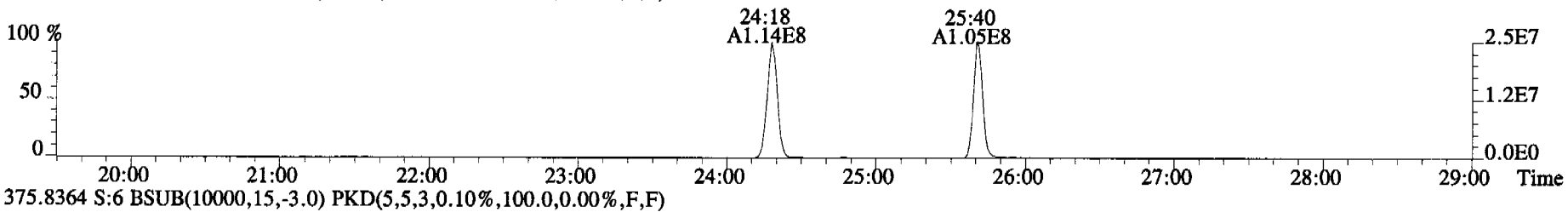
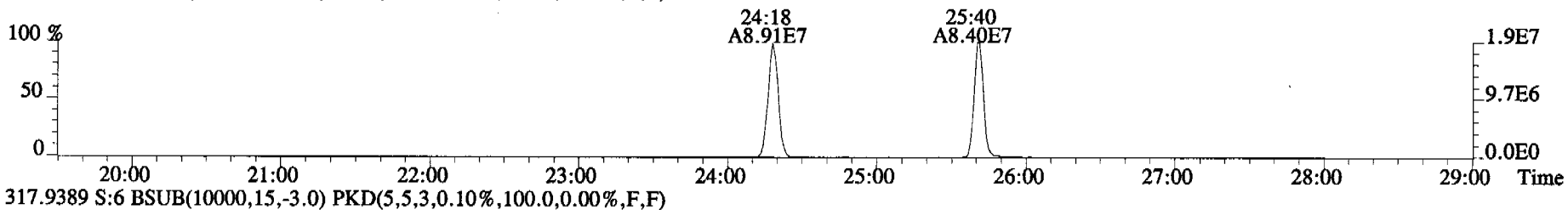
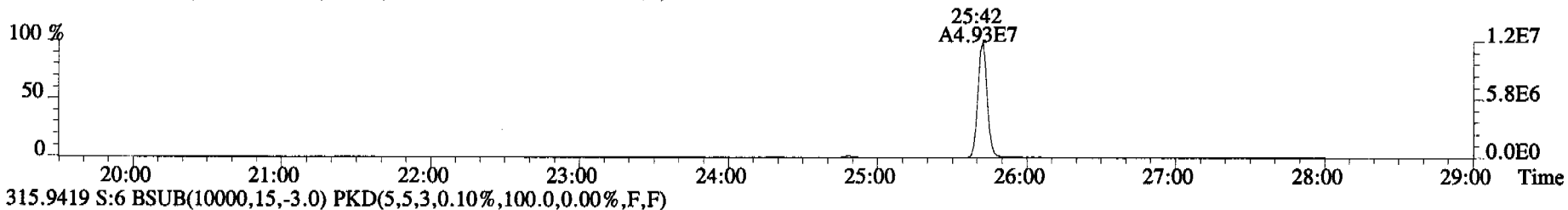
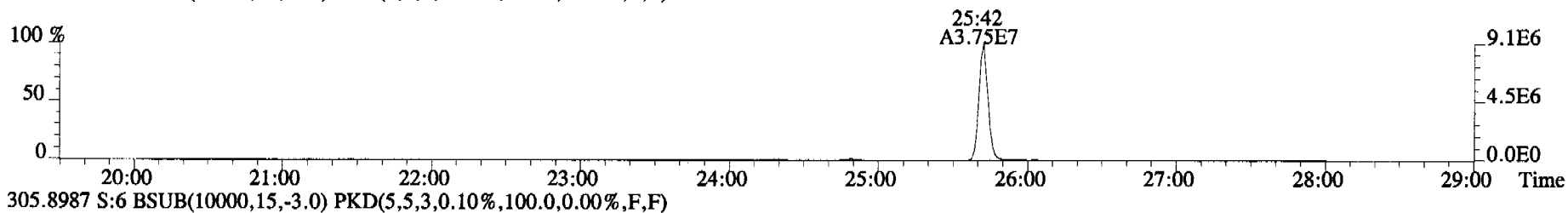
430.9728 S:6 F:4



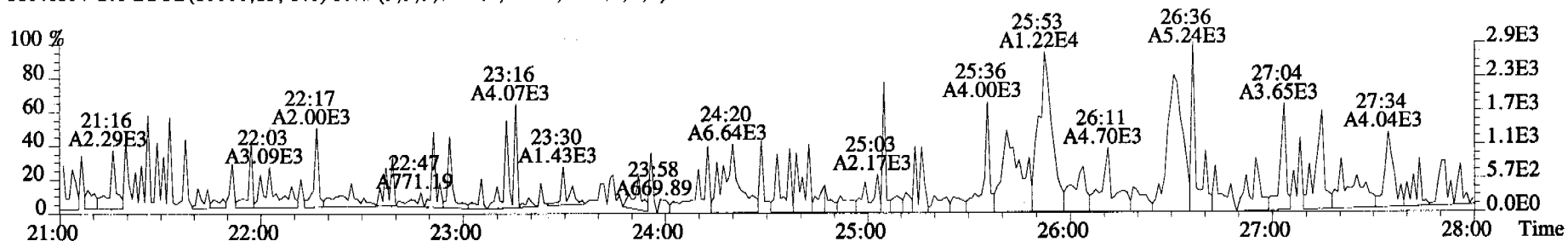
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Aita Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



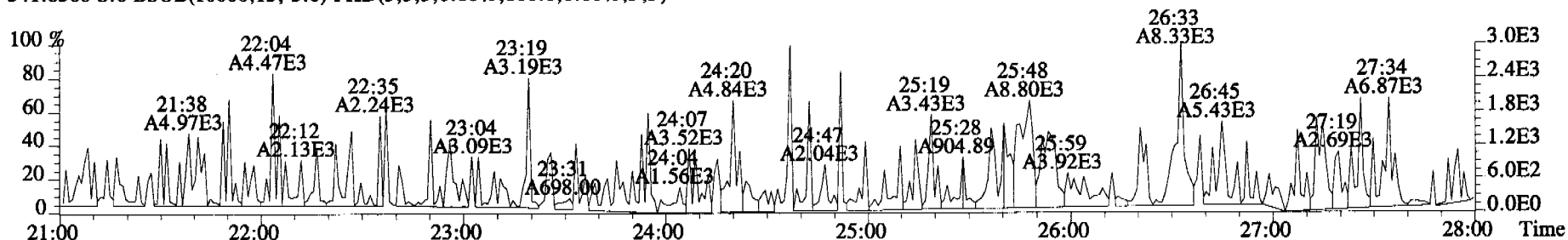
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



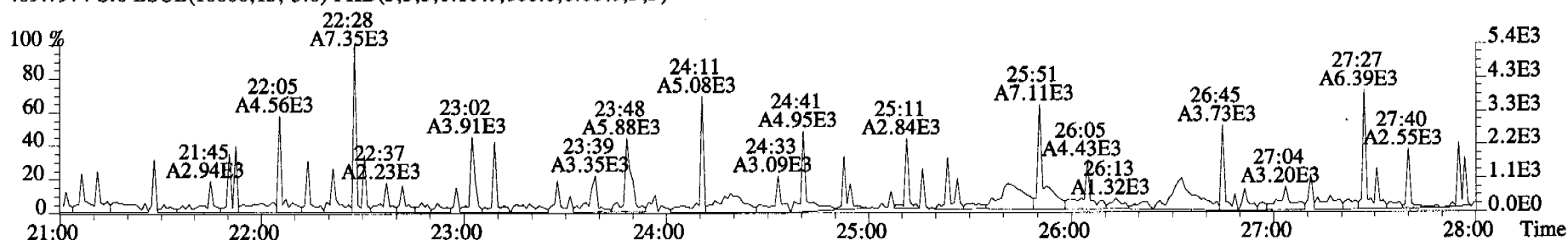
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



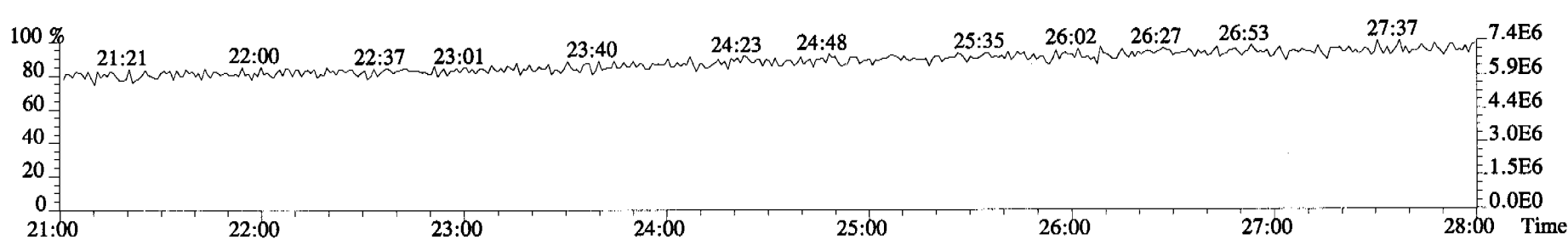
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



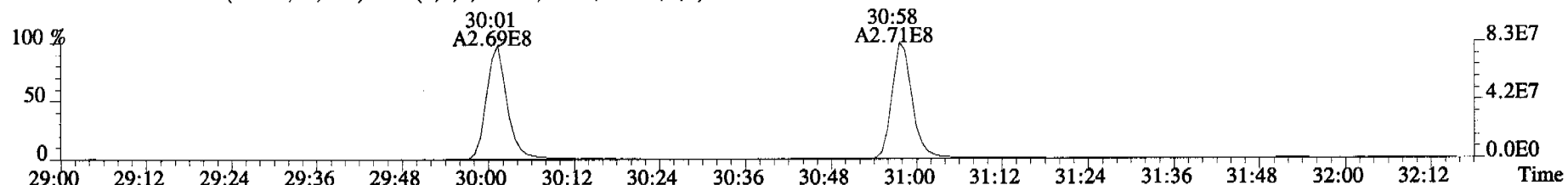
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



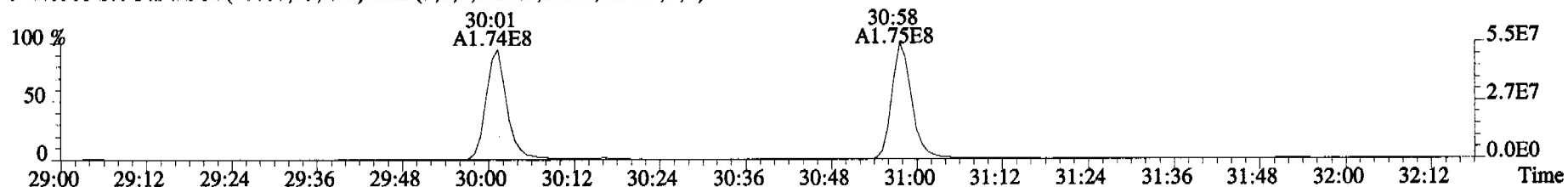
316.9824 S:6



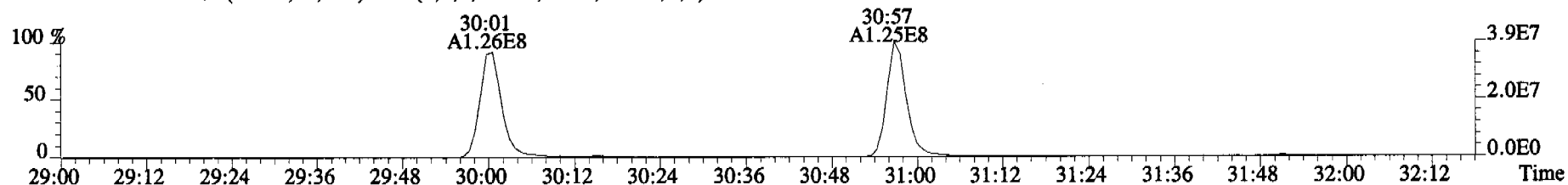
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



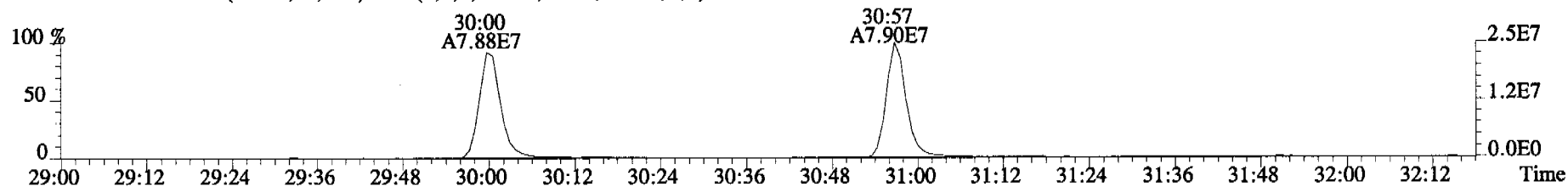
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



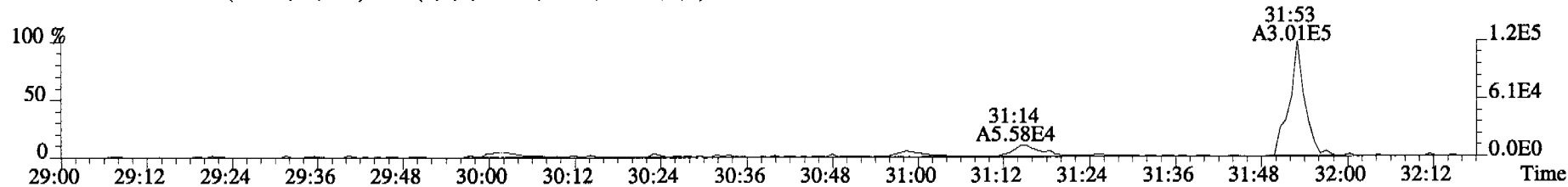
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



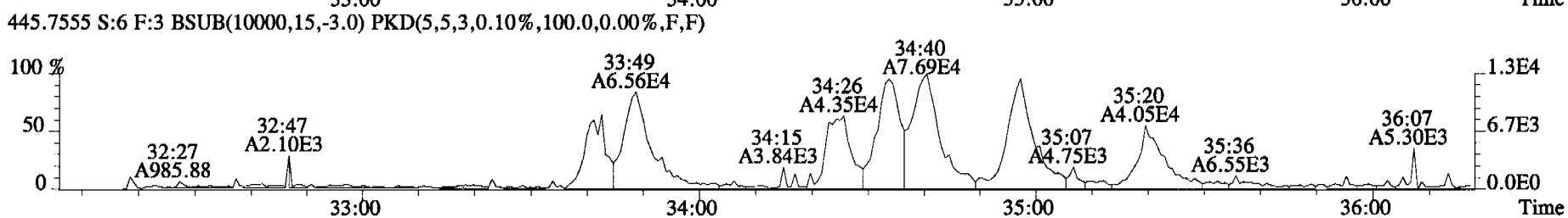
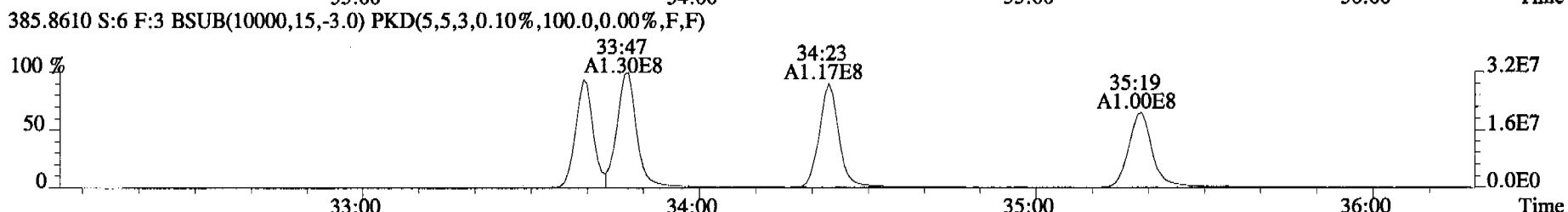
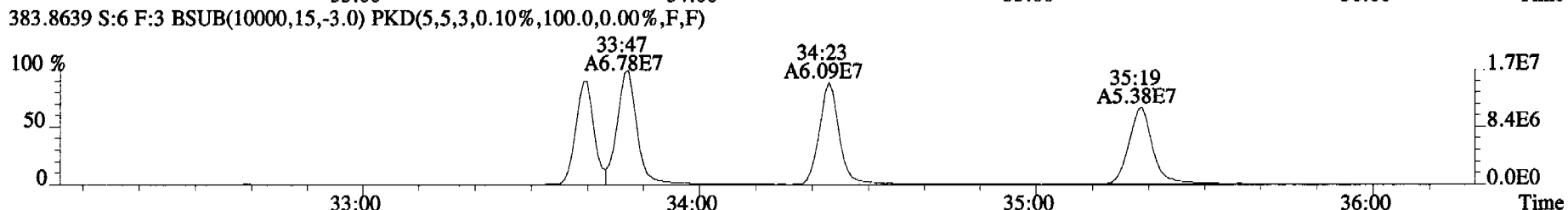
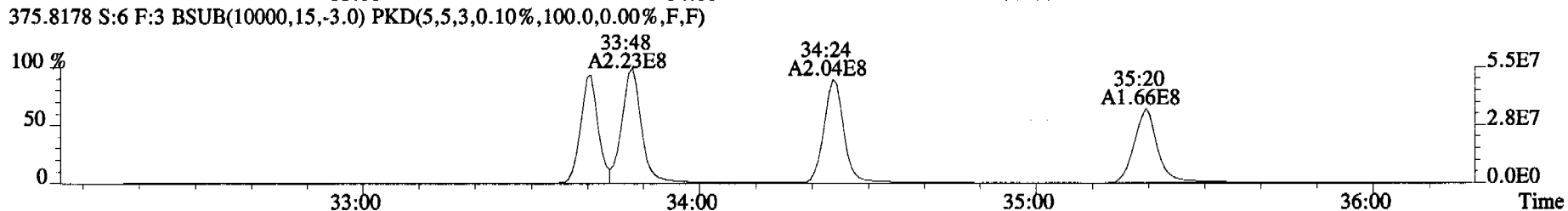
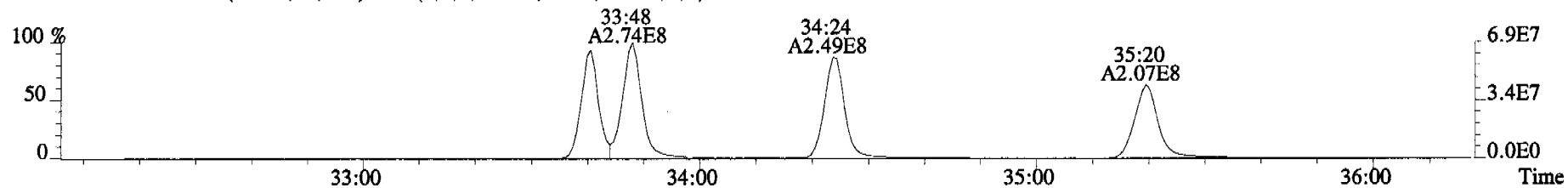
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



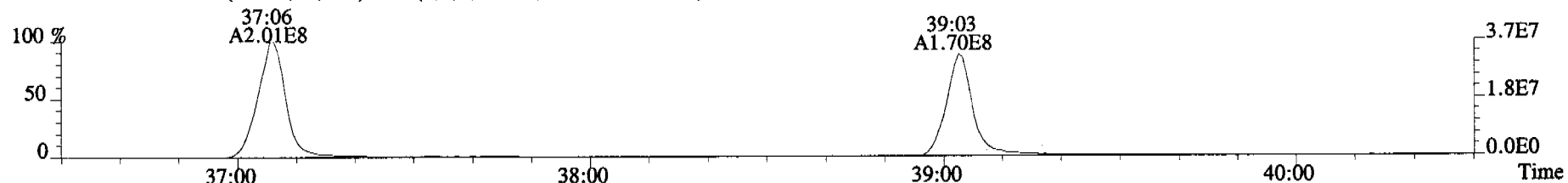
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



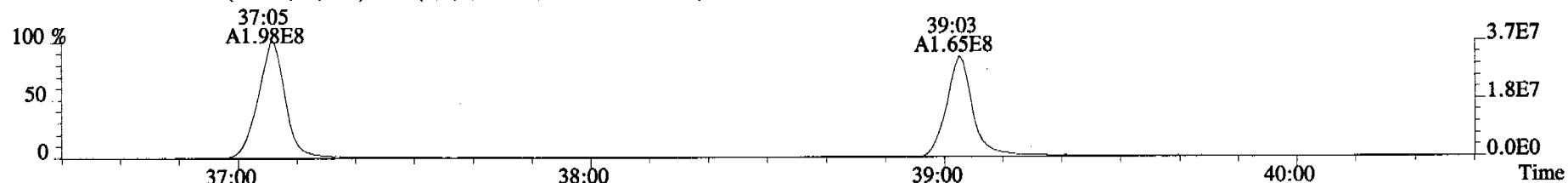
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



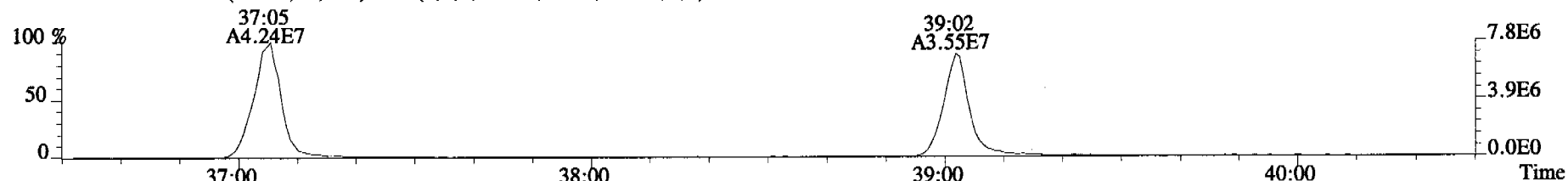
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD_DB5
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



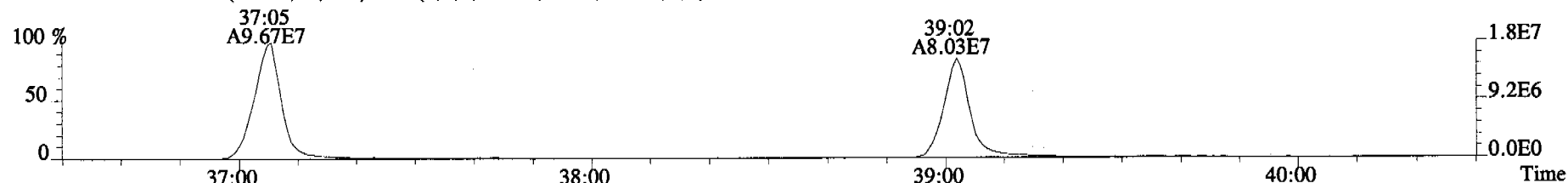
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



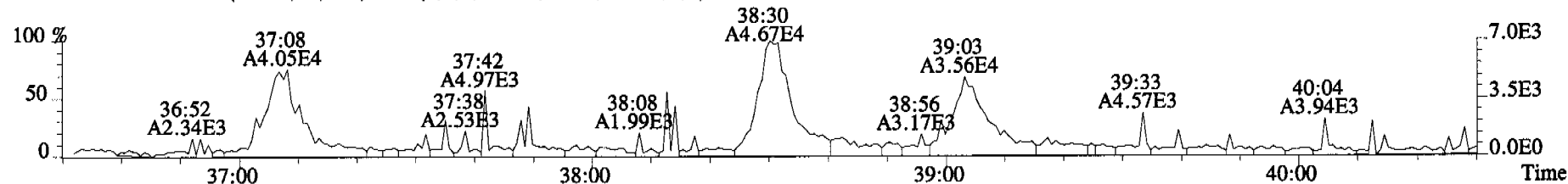
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



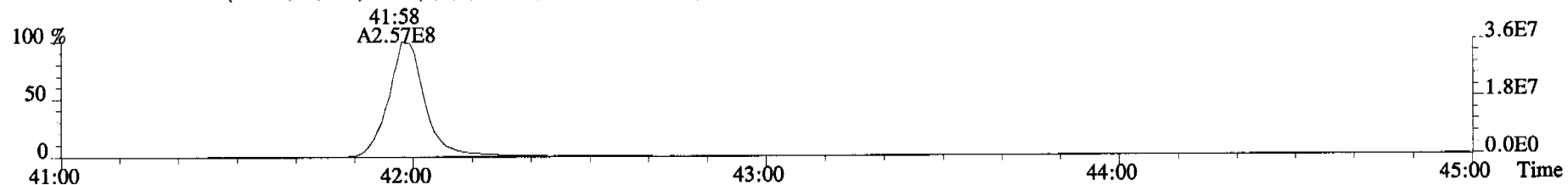
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



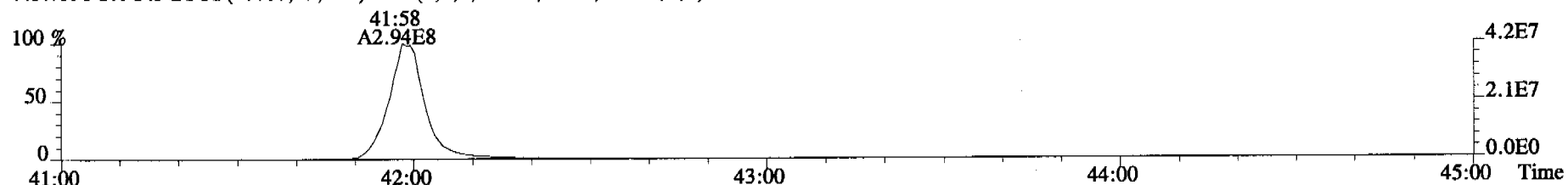
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



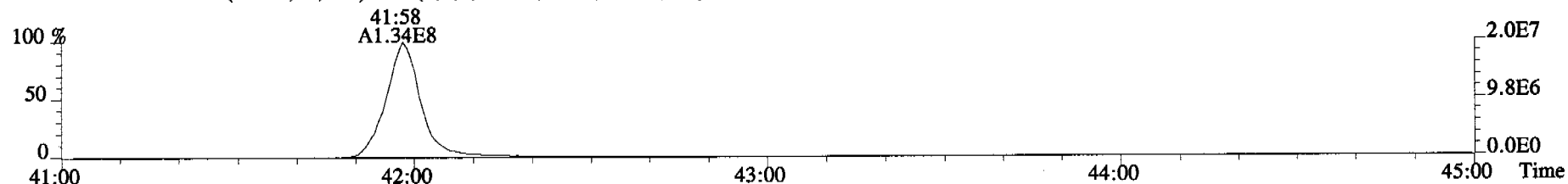
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 0601101 Exp:OCDD_DB5
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



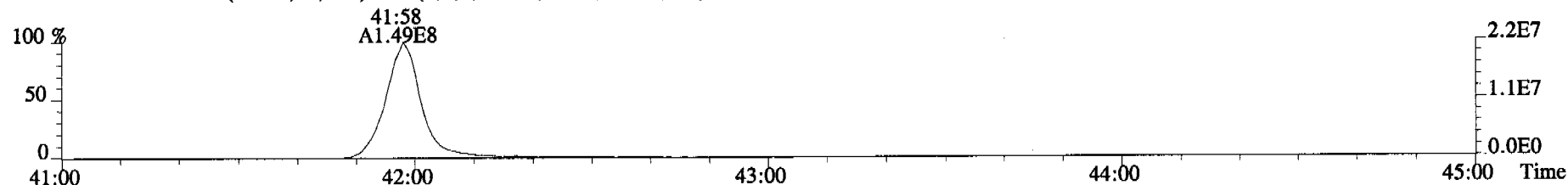
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



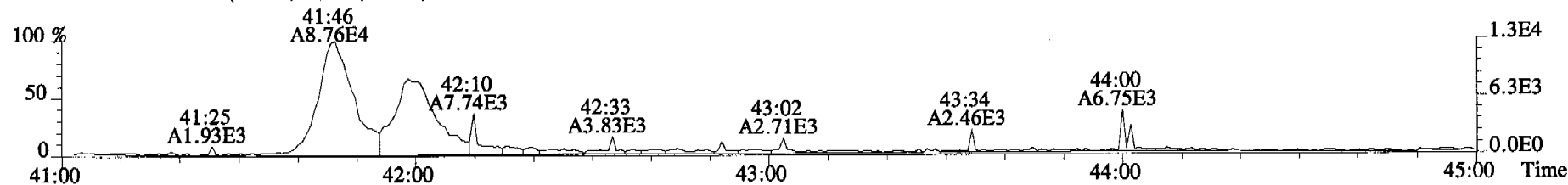
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



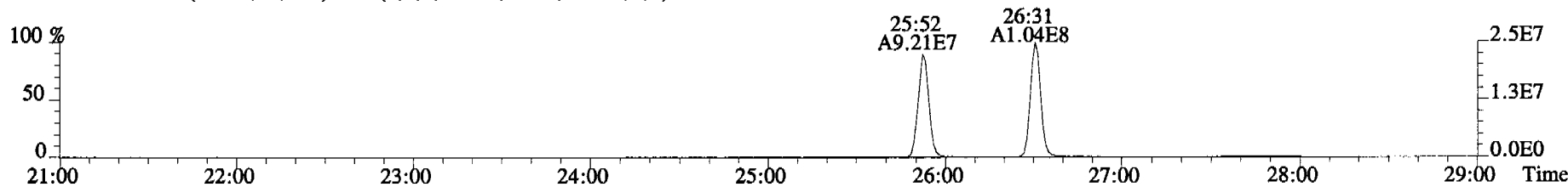
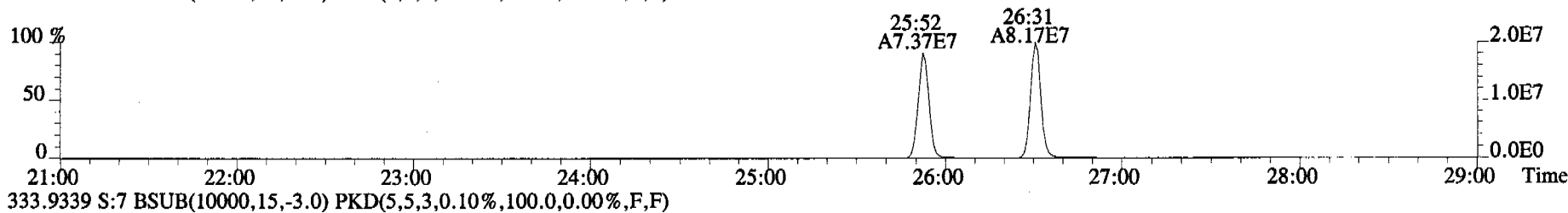
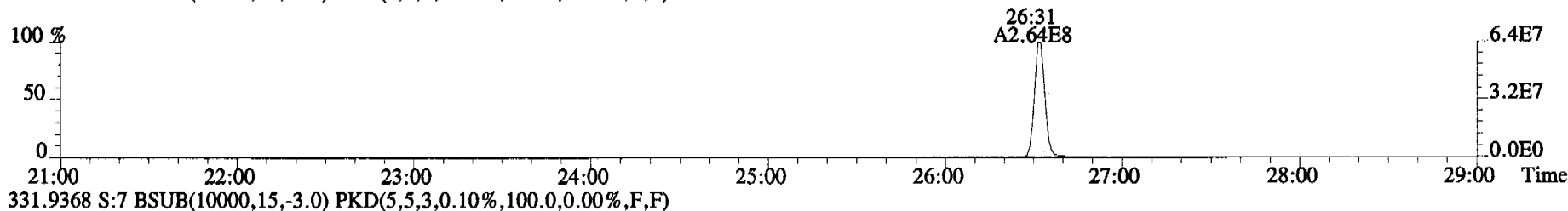
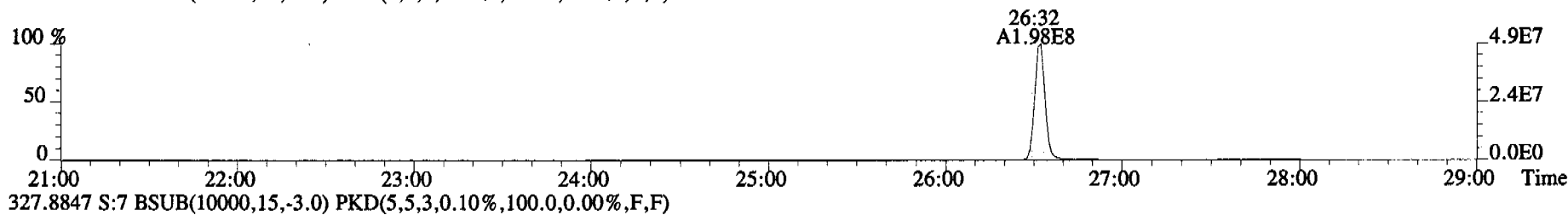
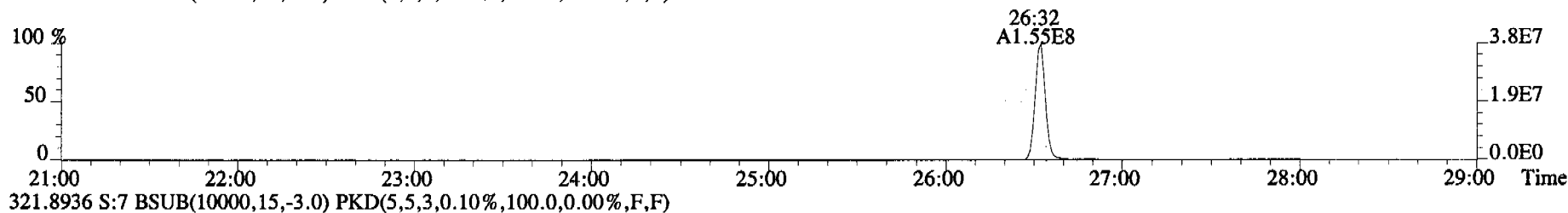
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



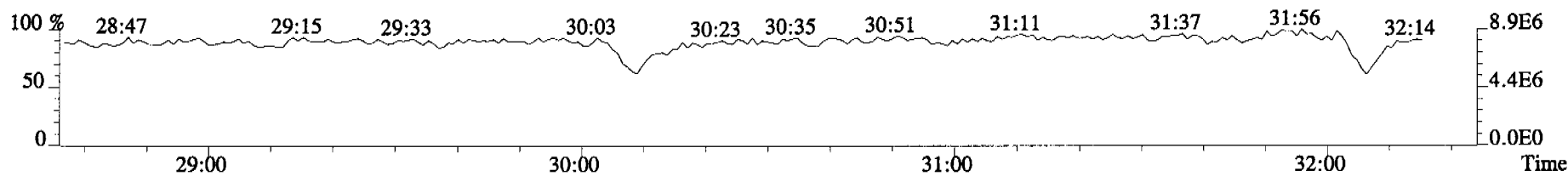
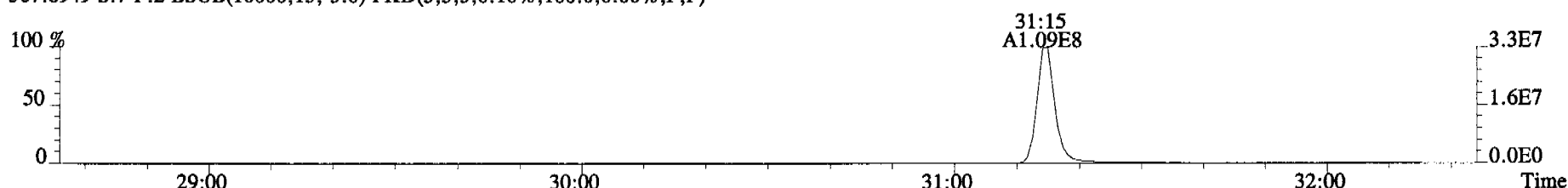
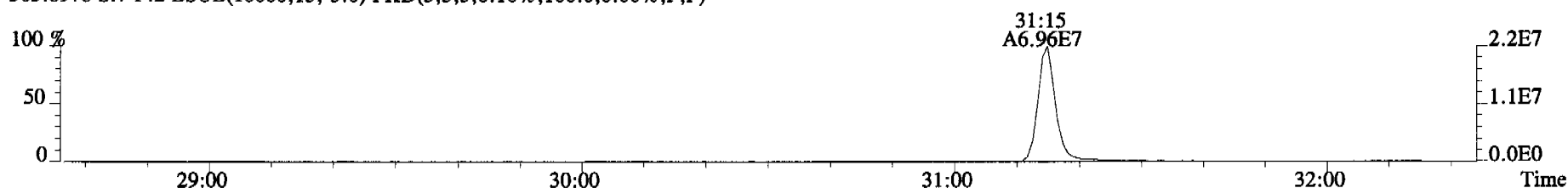
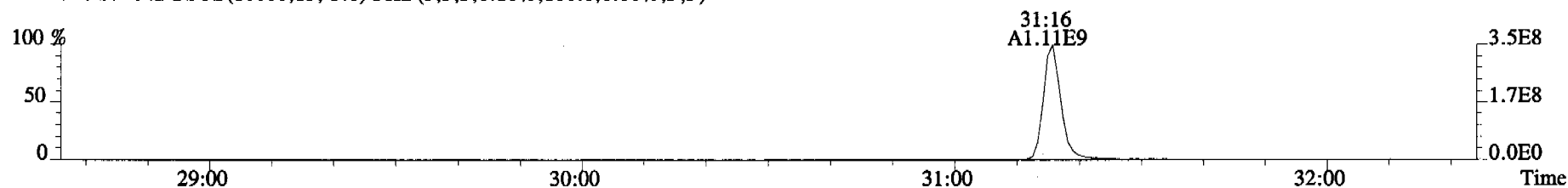
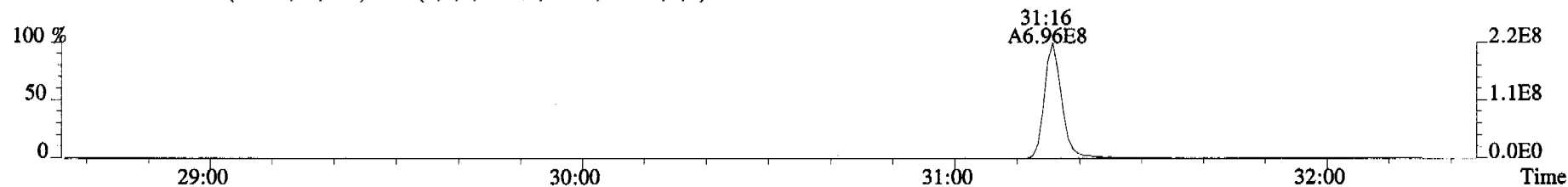
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



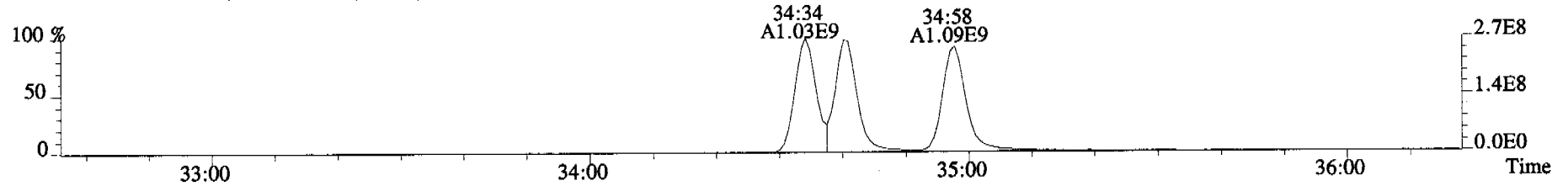
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



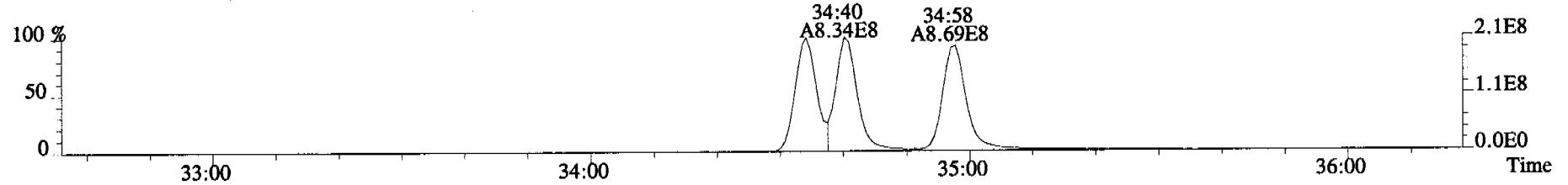
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



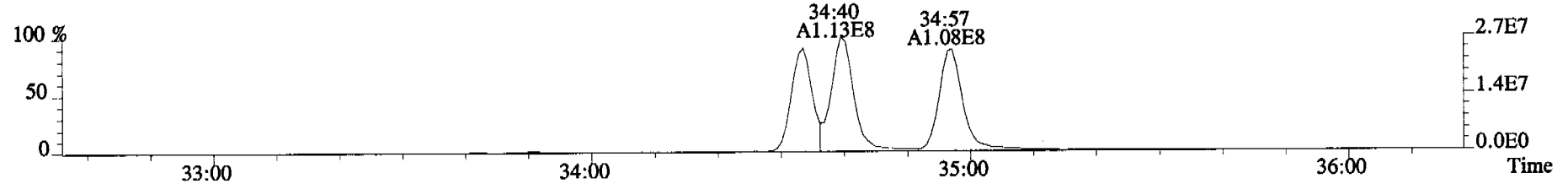
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



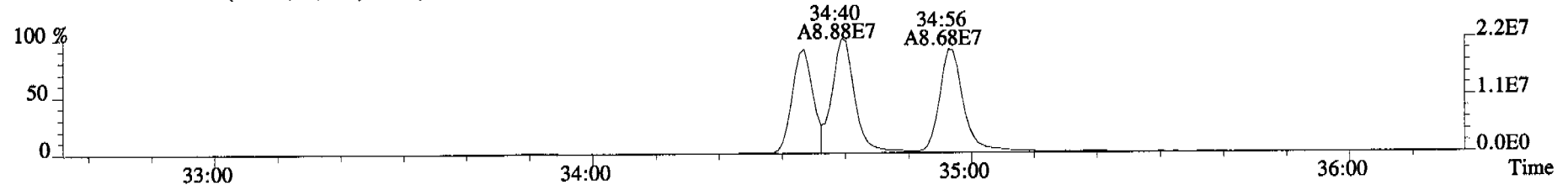
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



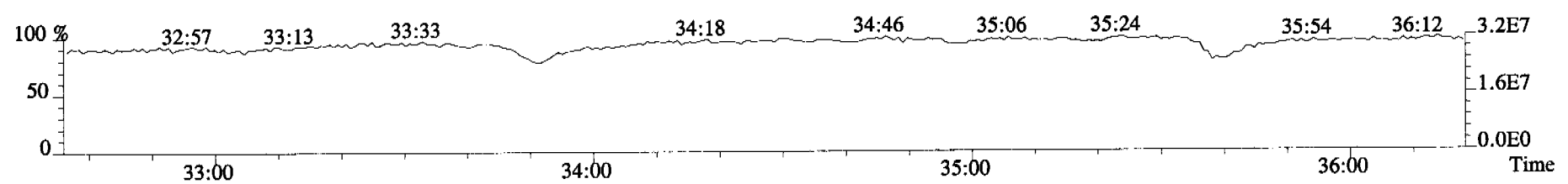
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



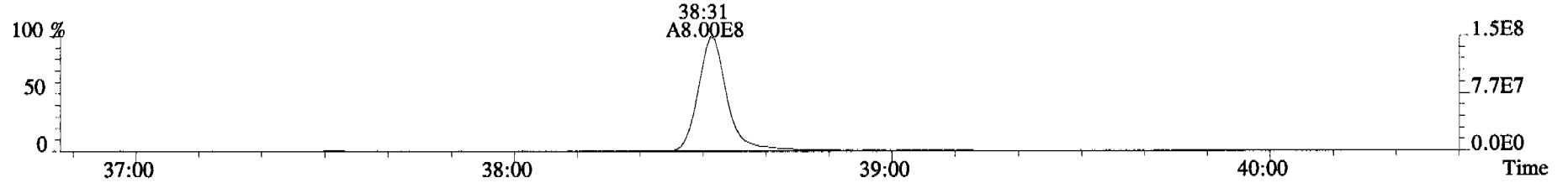
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



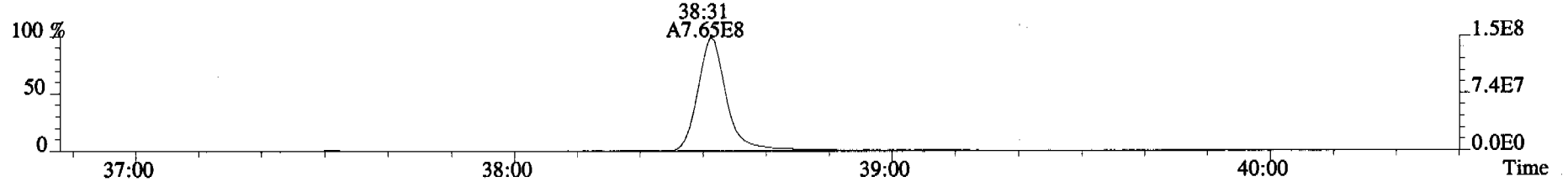
380.9760 S:7 F:3



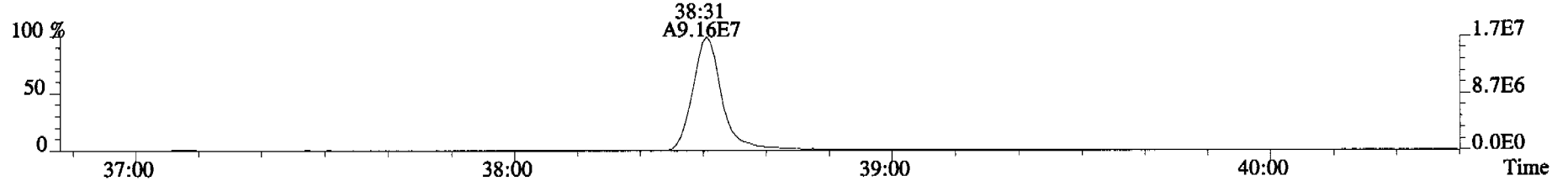
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



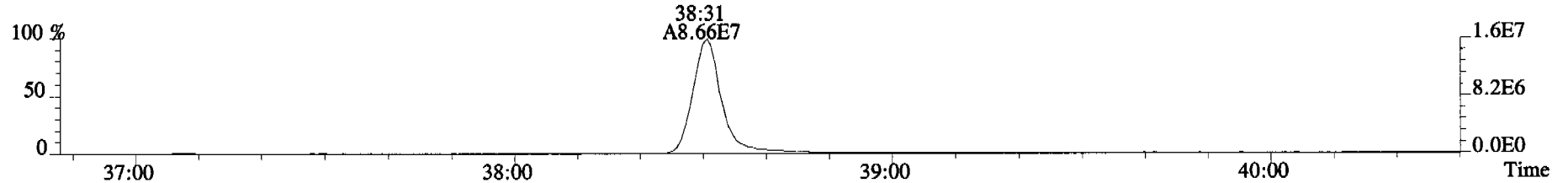
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



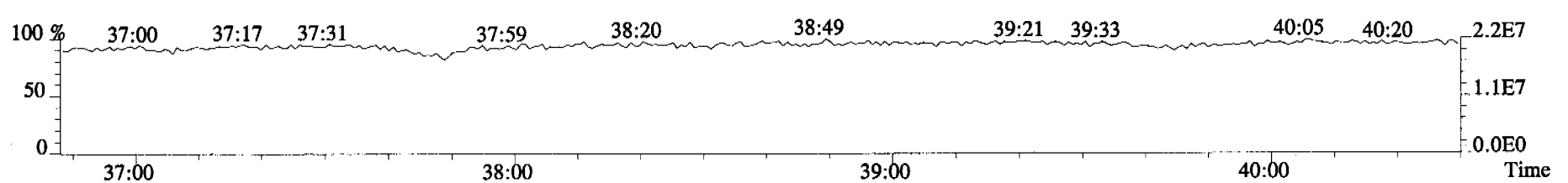
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



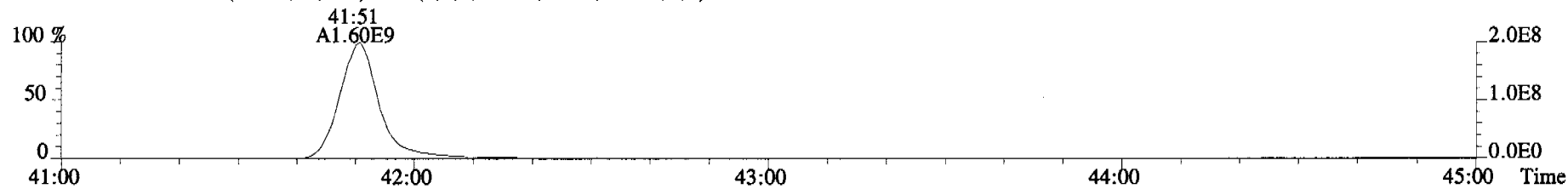
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



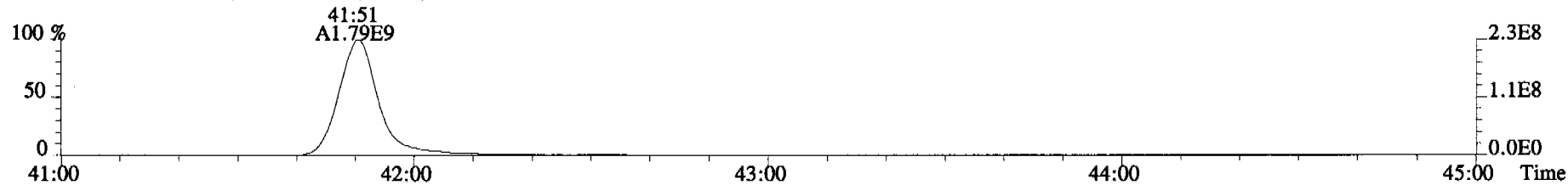
430.9728 S:7 F:4



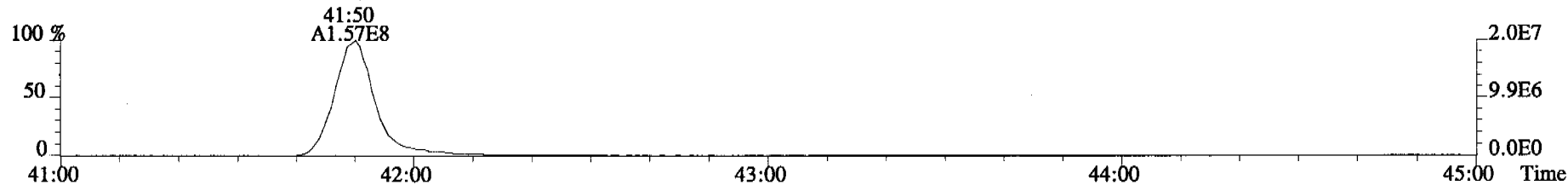
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



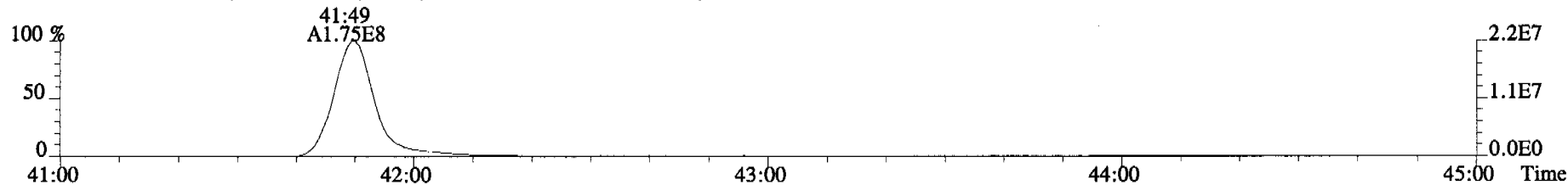
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



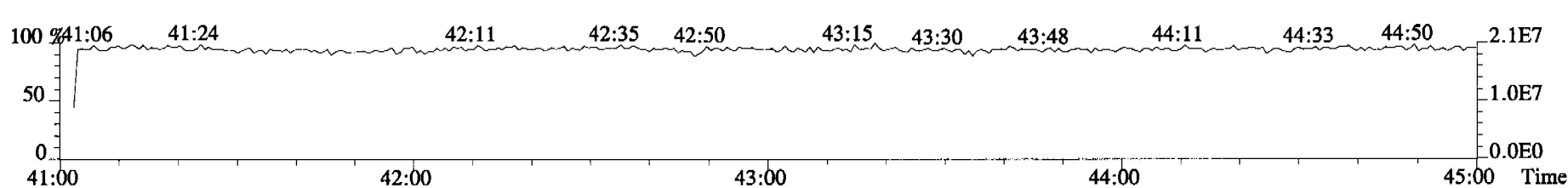
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



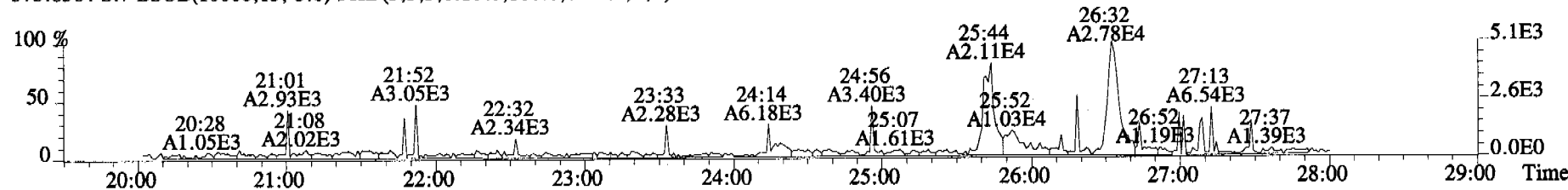
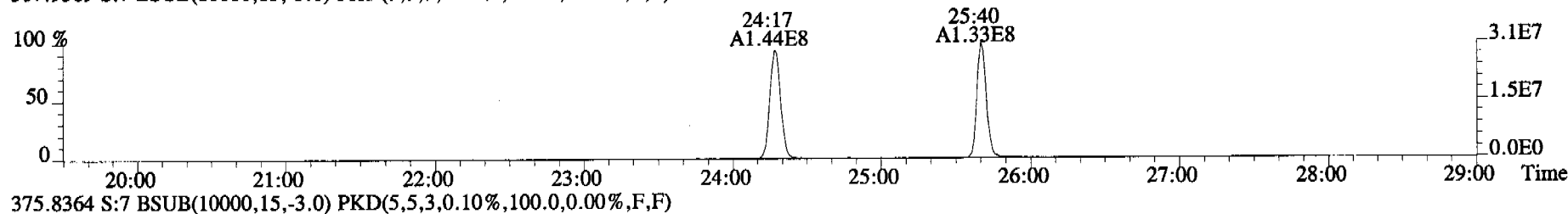
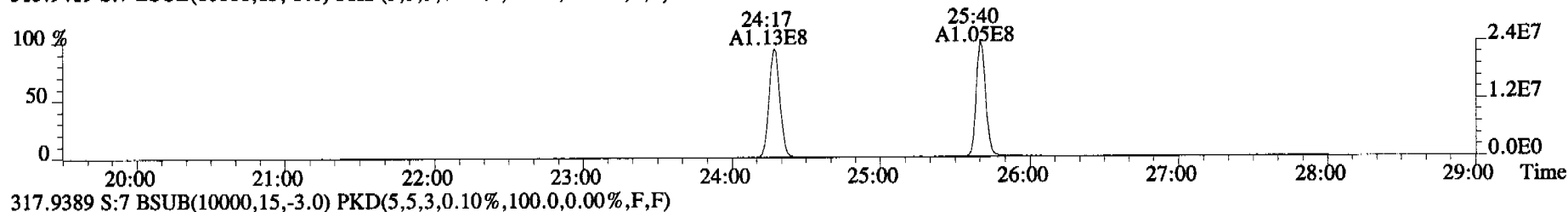
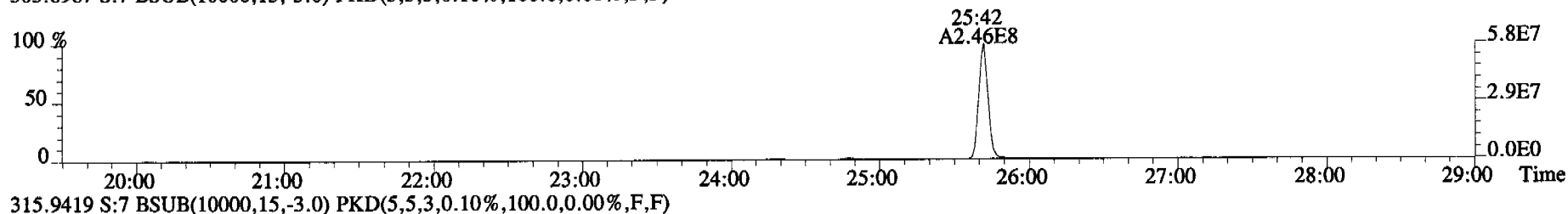
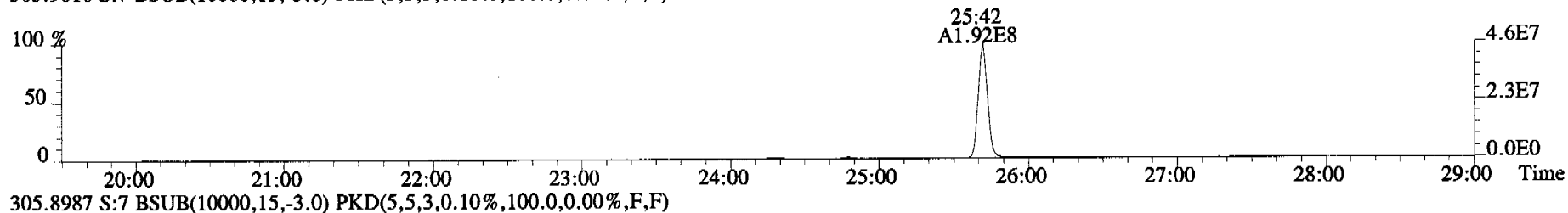
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



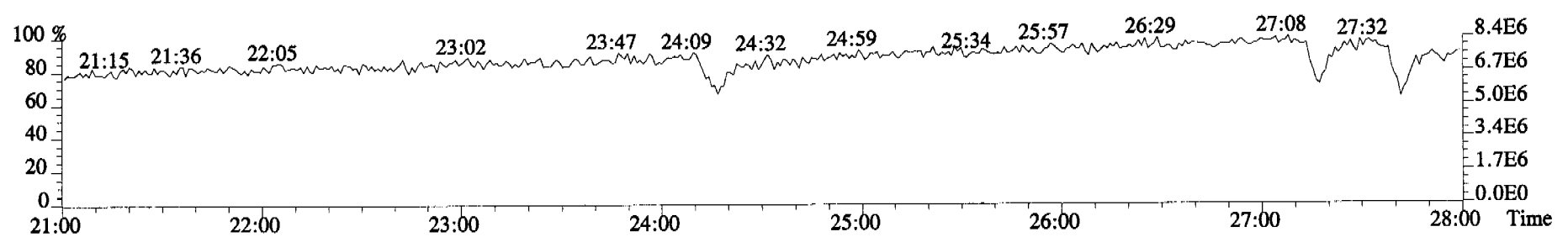
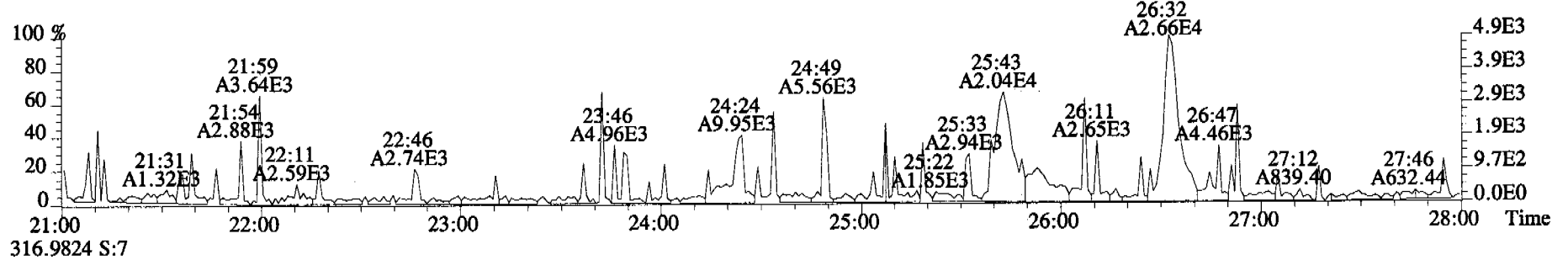
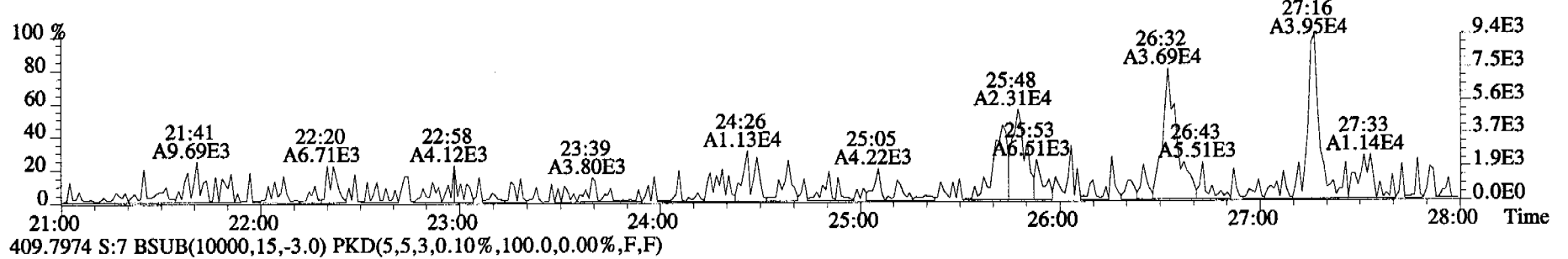
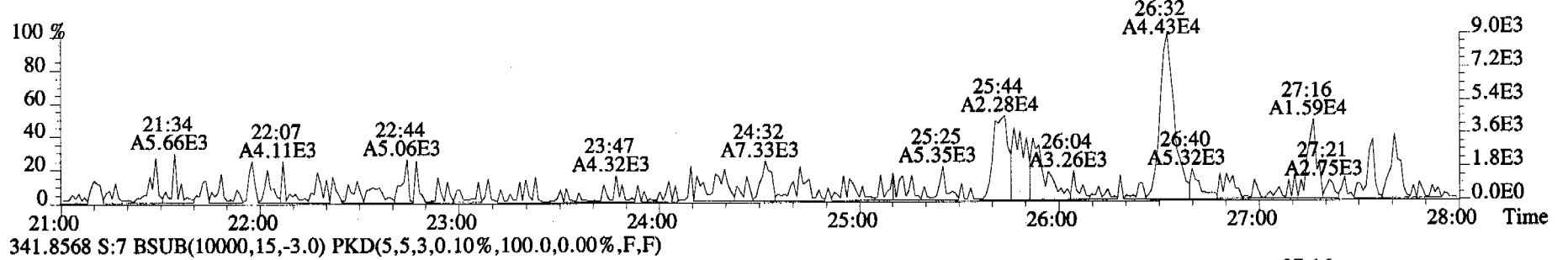
454.9728 S:7 F:5



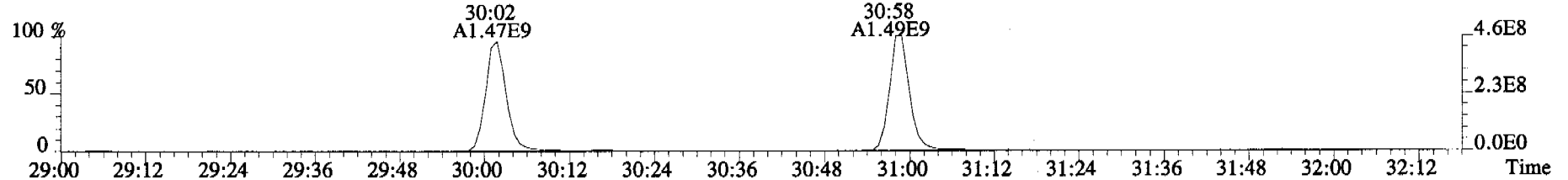
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



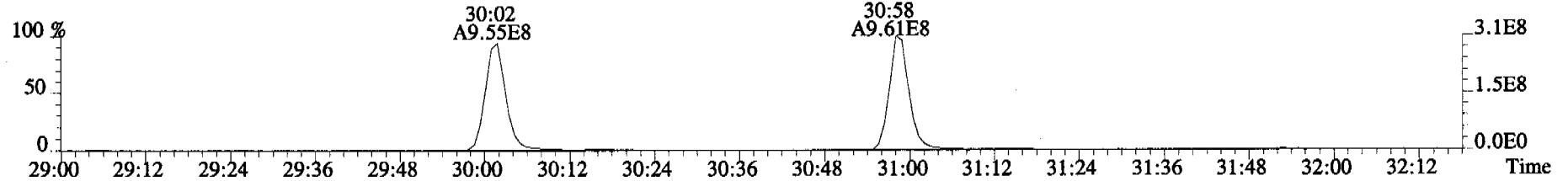
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



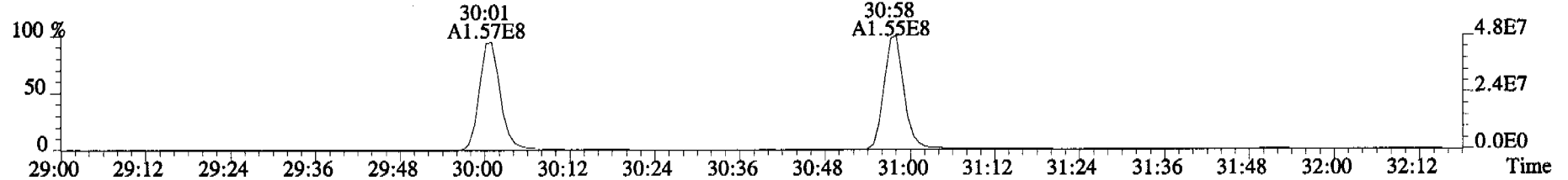
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



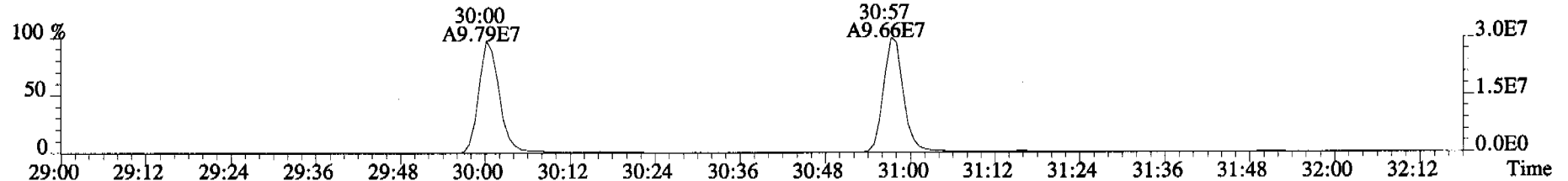
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



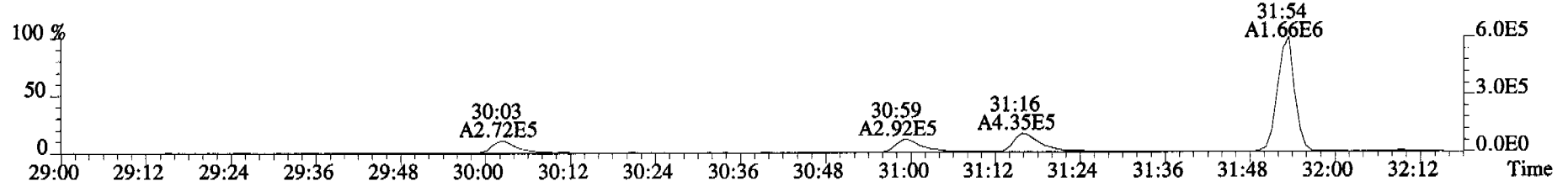
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



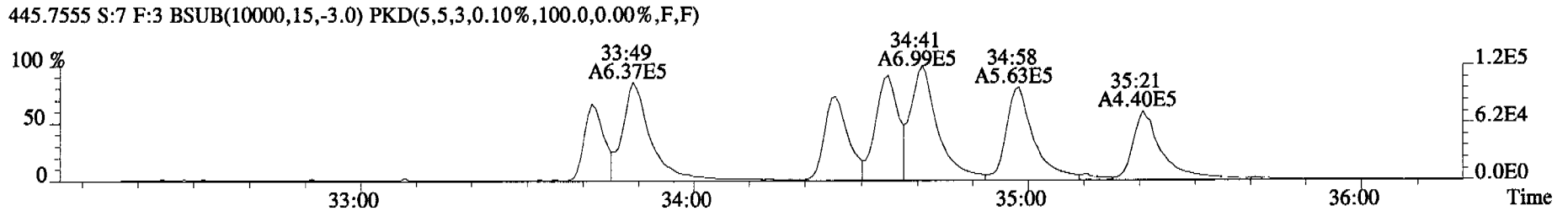
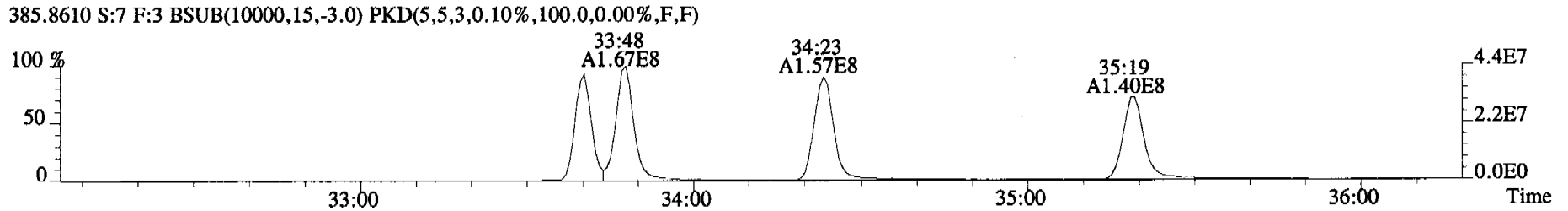
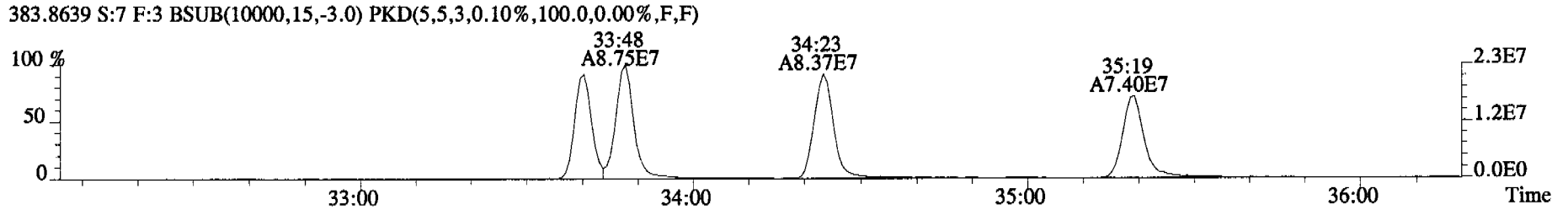
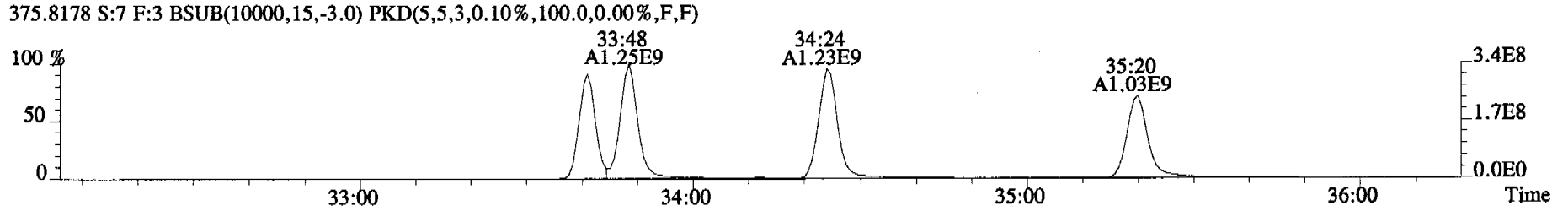
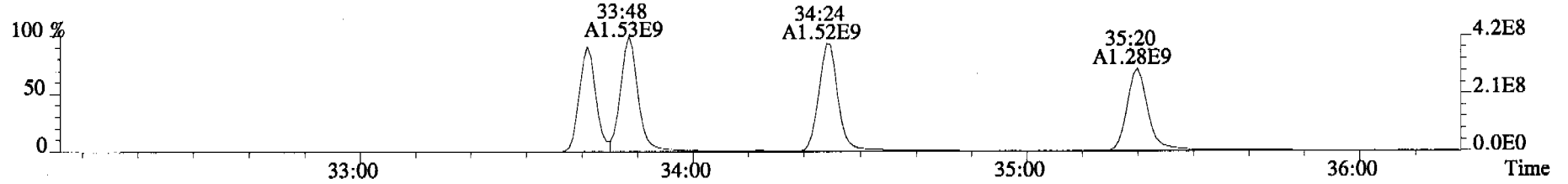
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



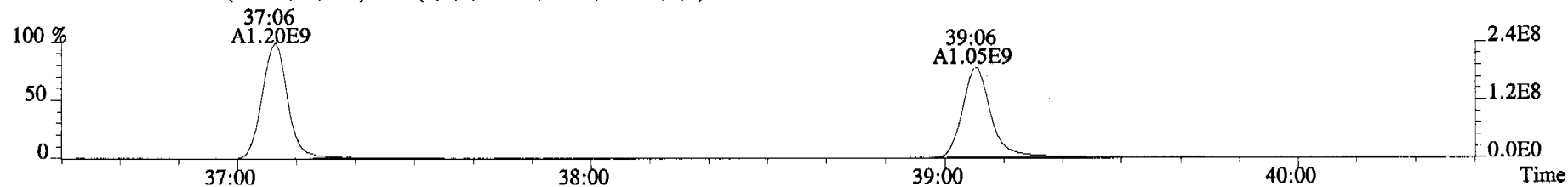
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



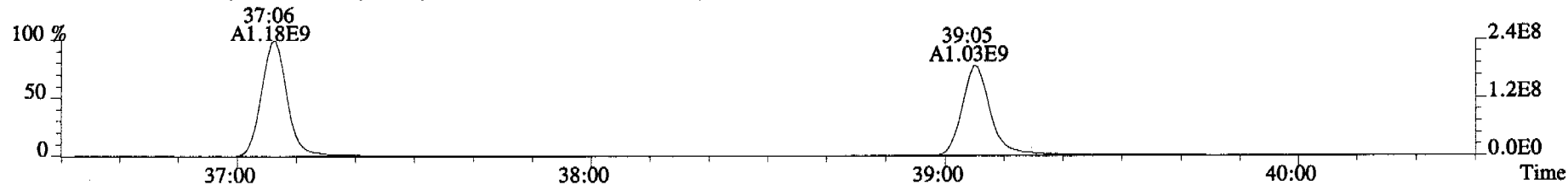
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



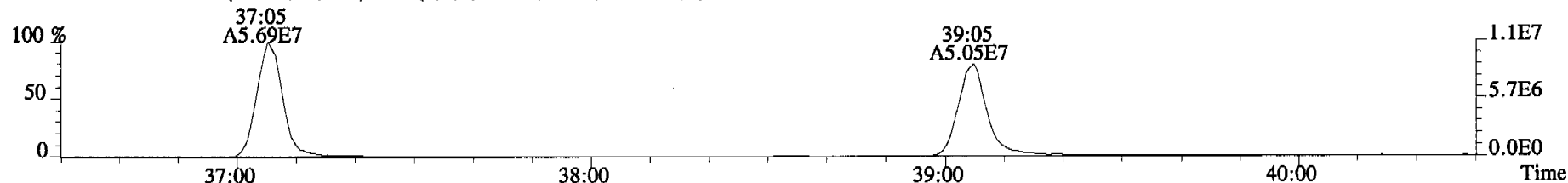
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



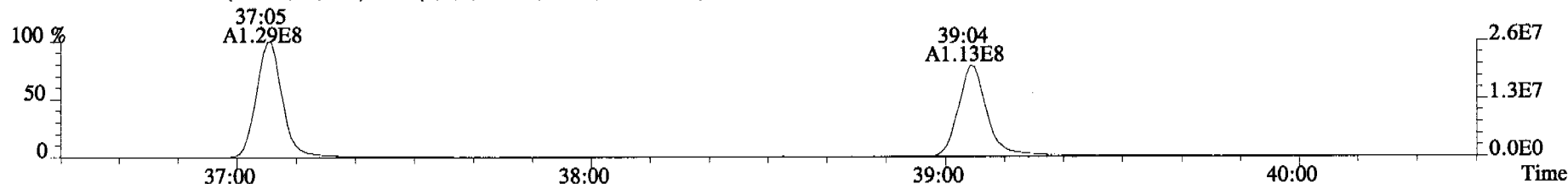
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



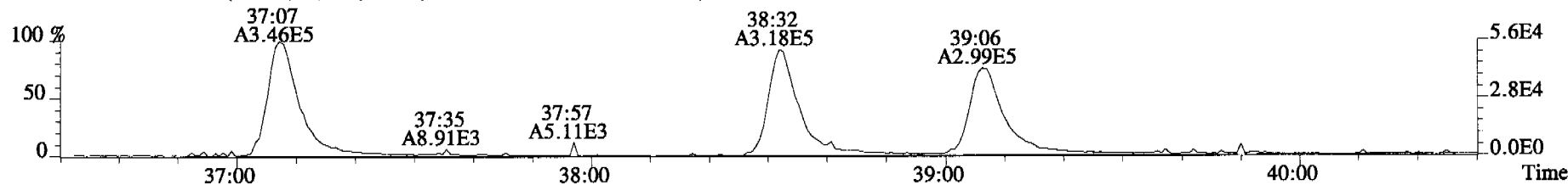
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



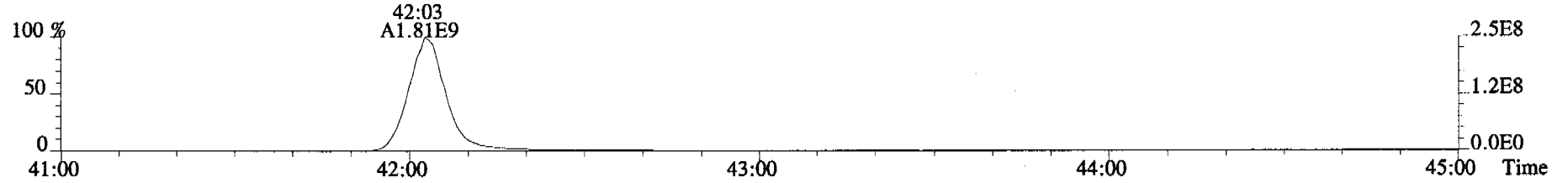
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



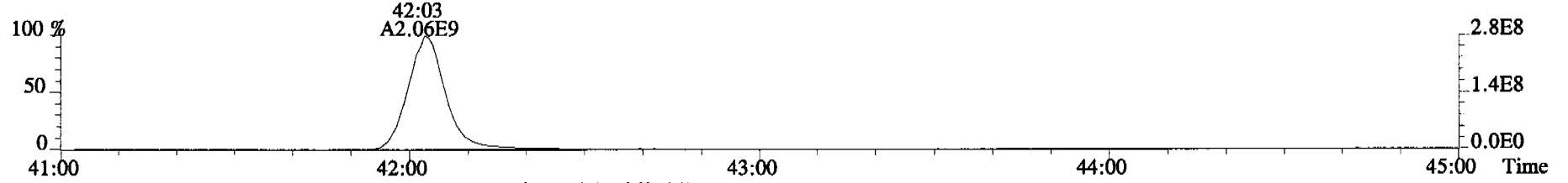
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



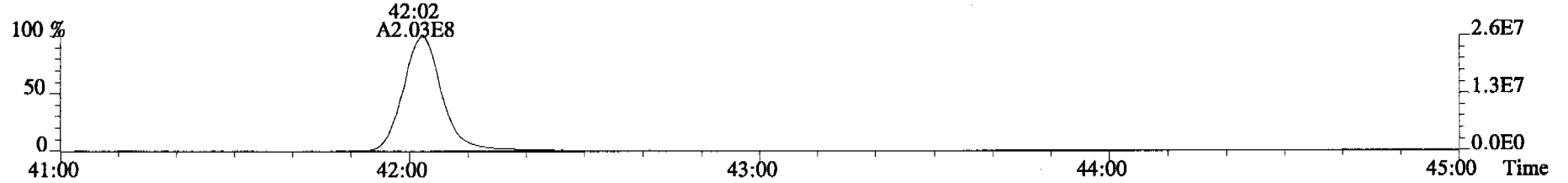
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD_DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



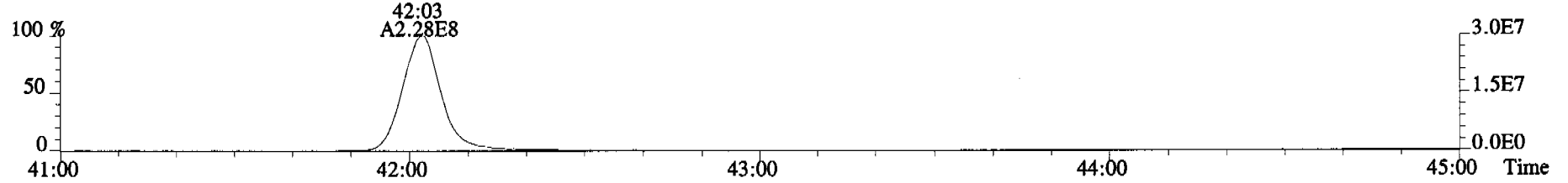
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



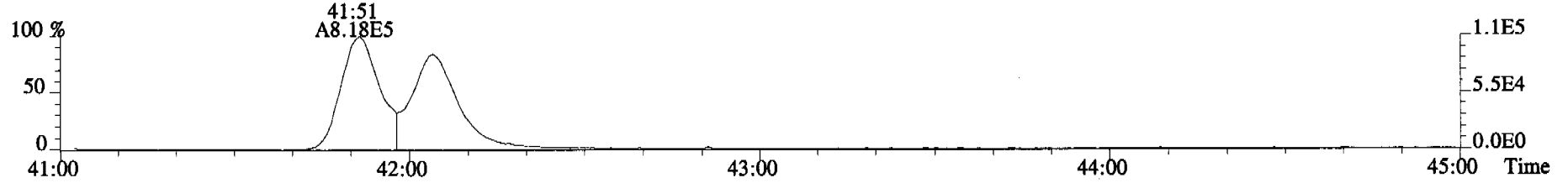
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

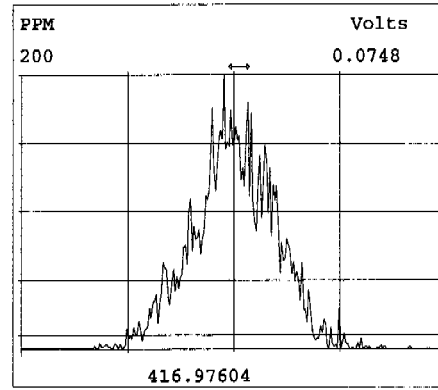
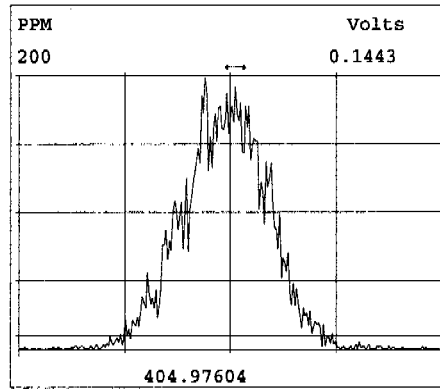
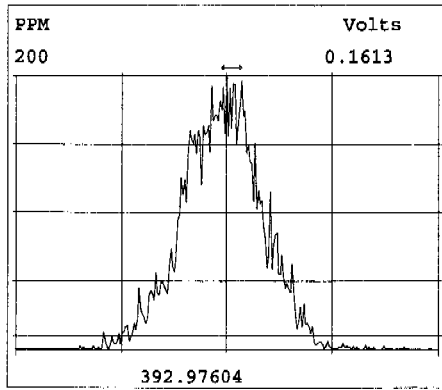
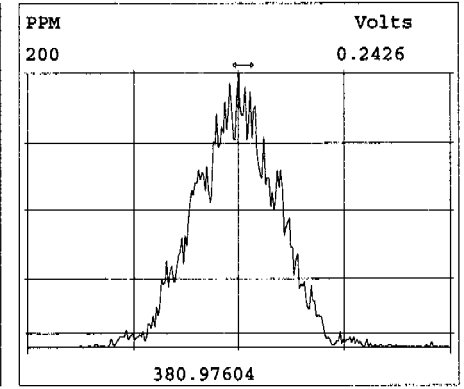
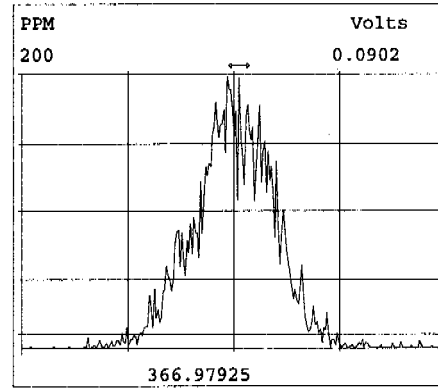
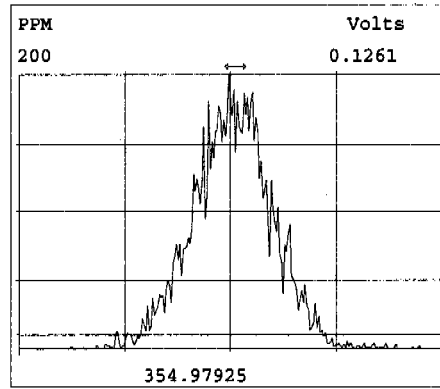
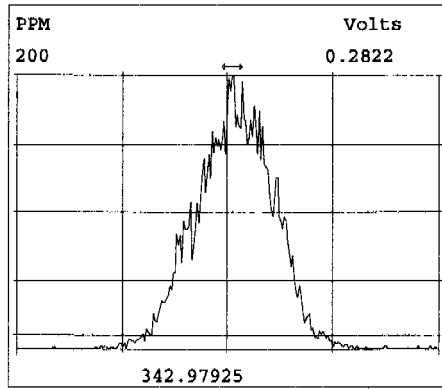
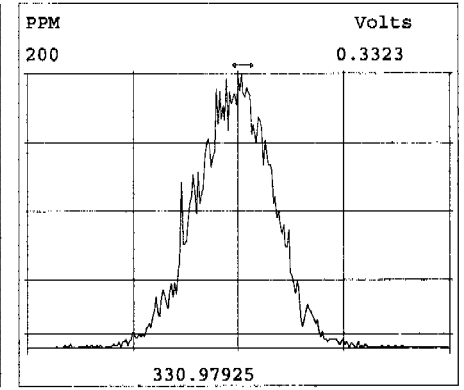
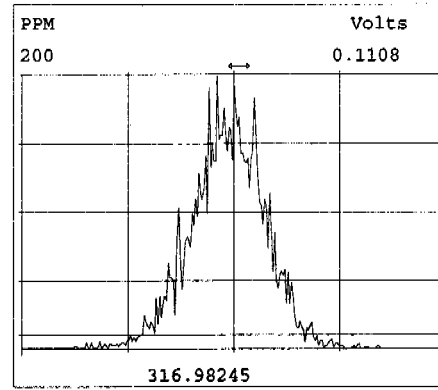
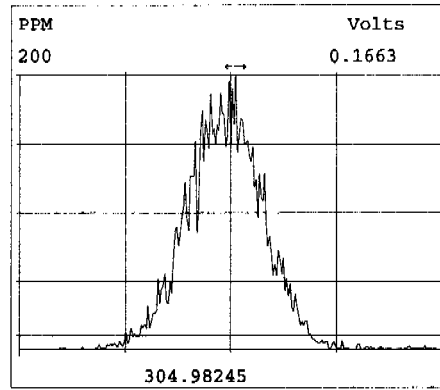
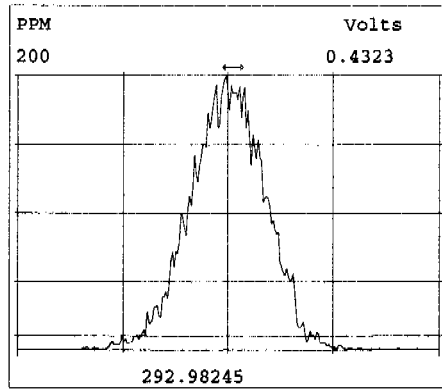


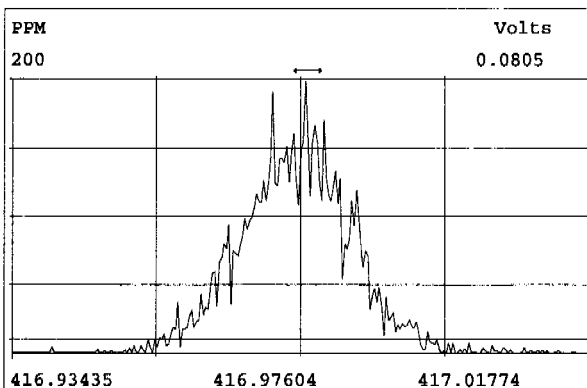
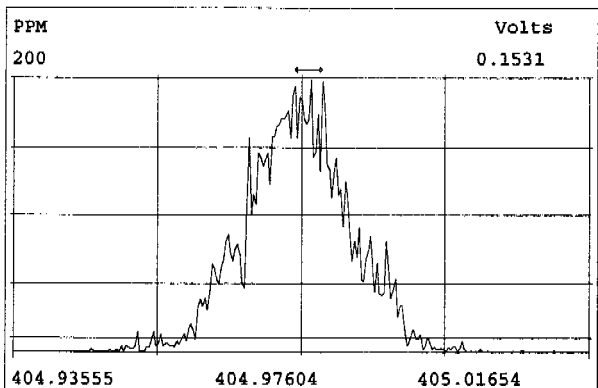
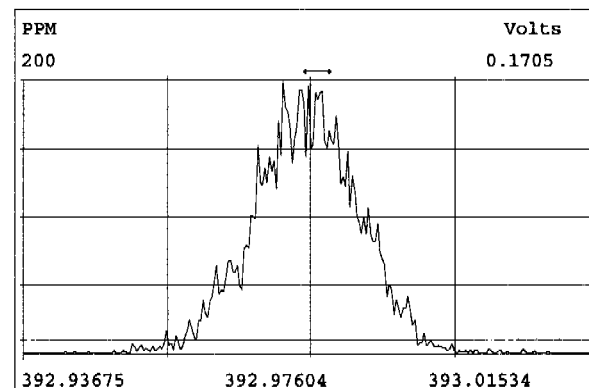
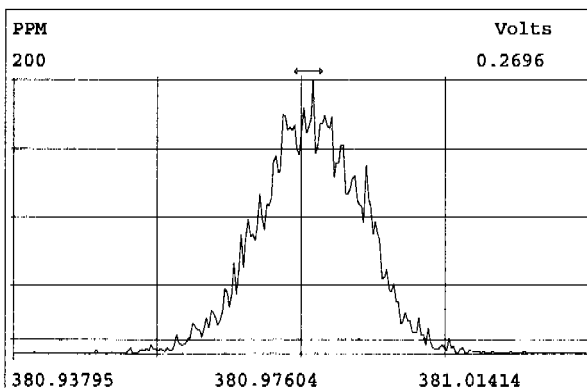
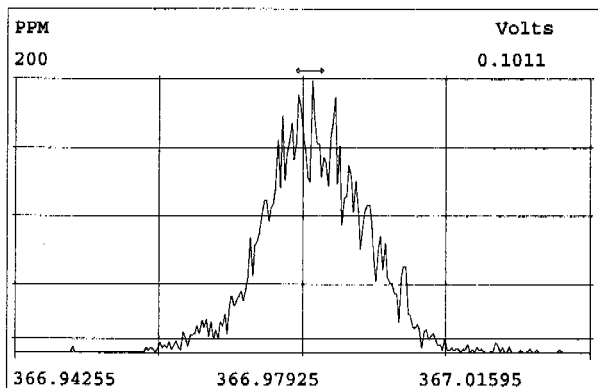
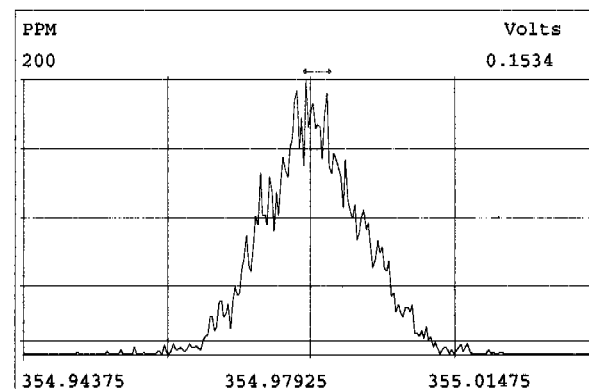
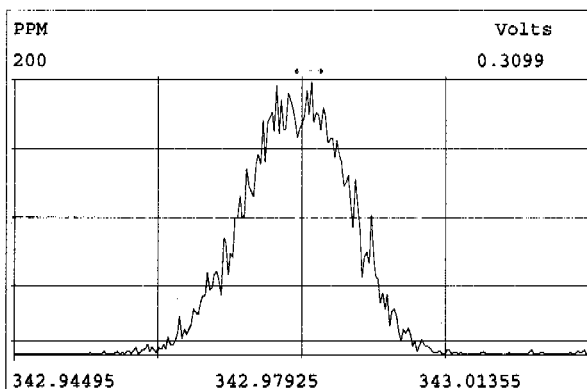
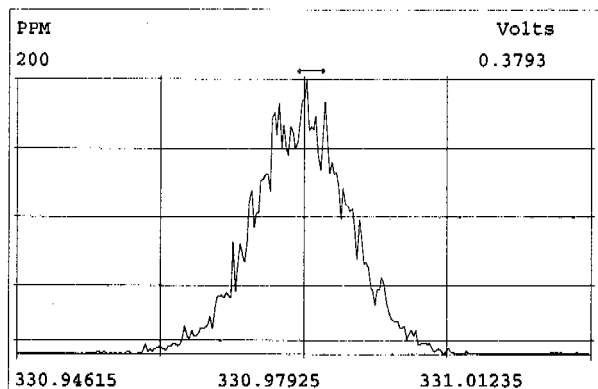
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

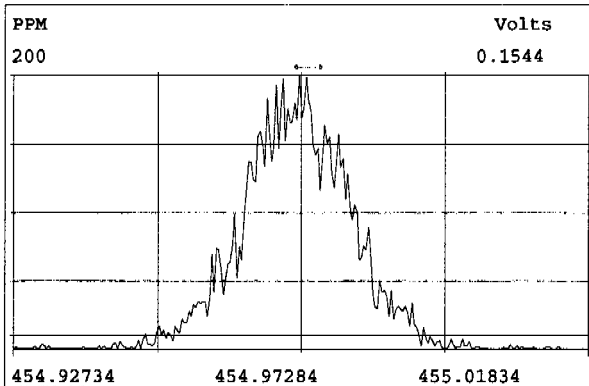
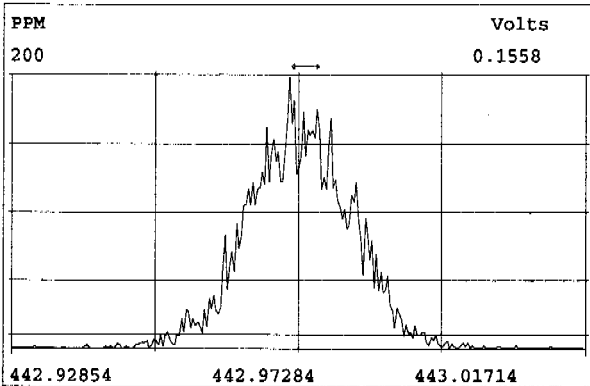
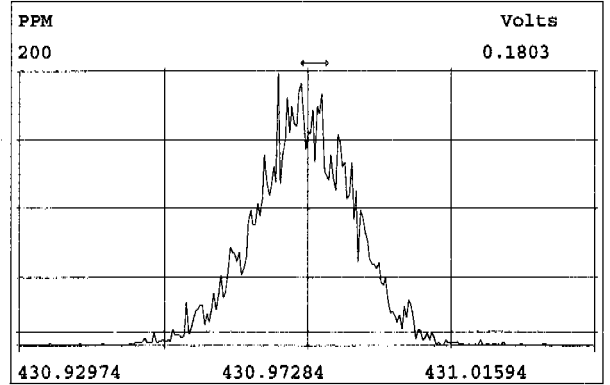
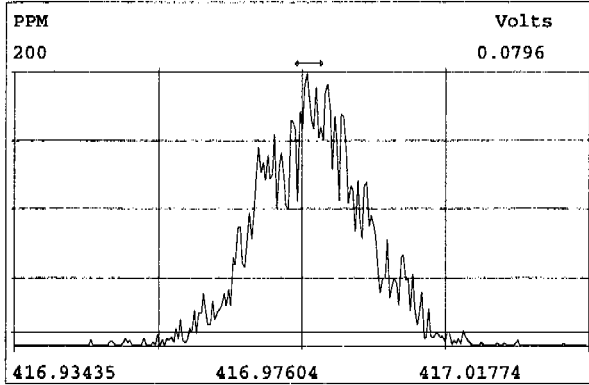
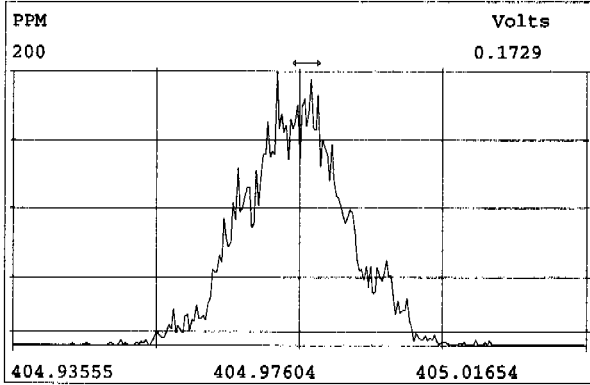
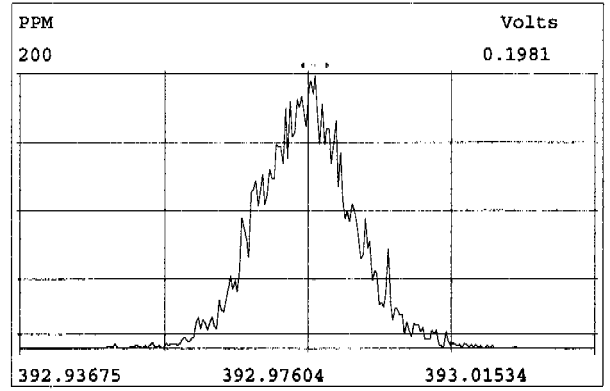
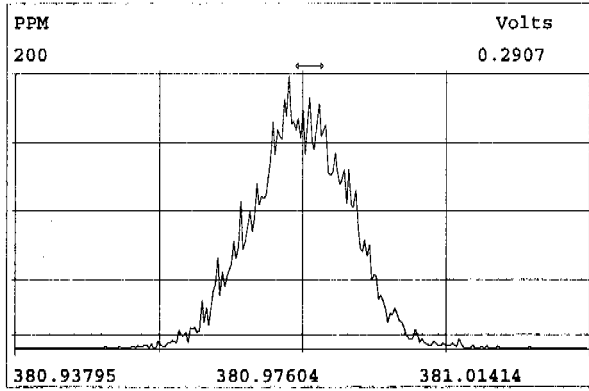
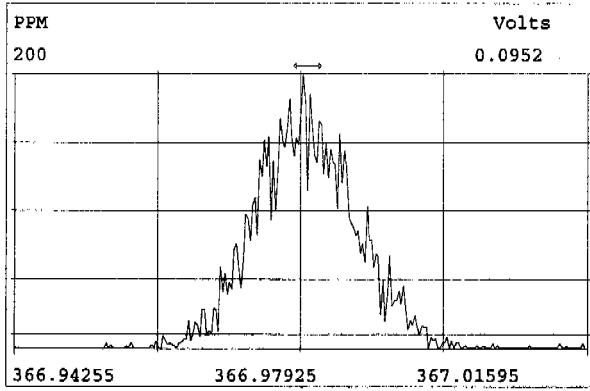


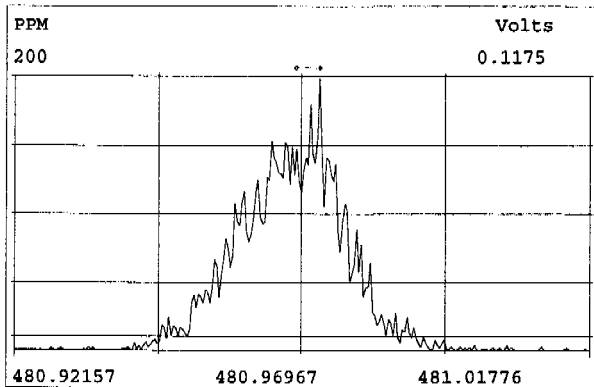
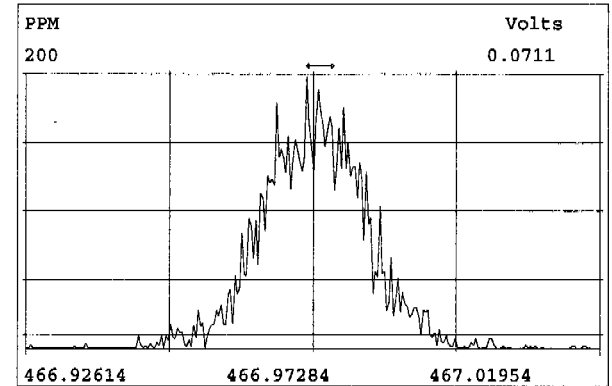
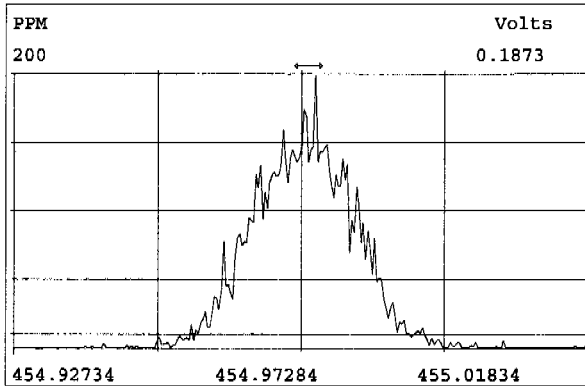
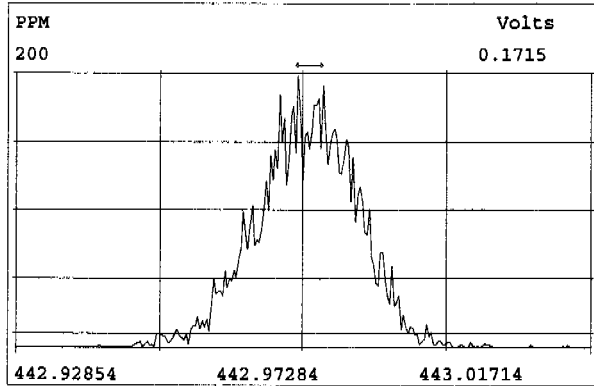
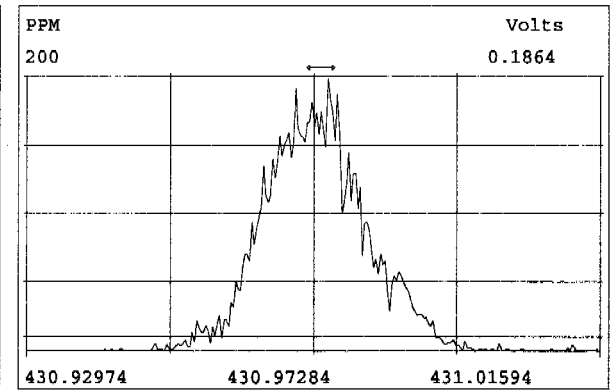
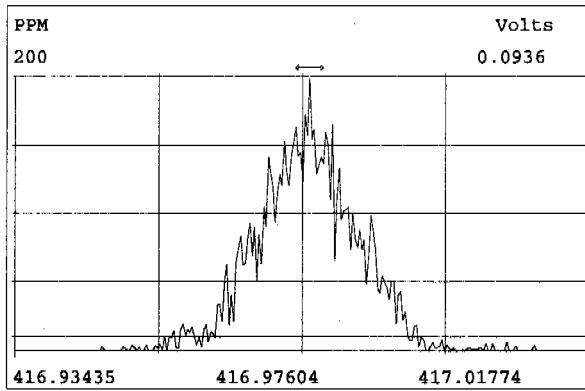
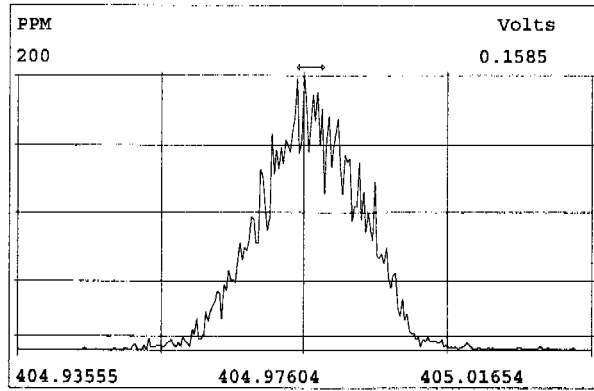
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

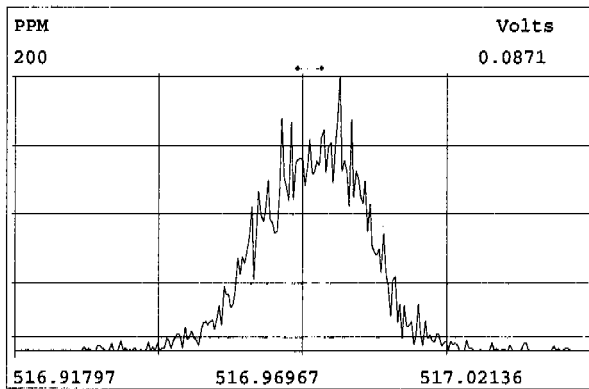
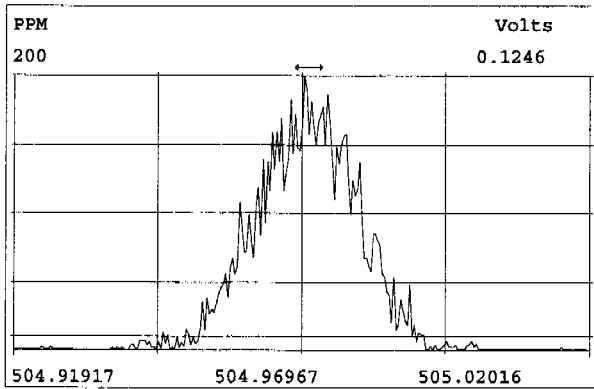
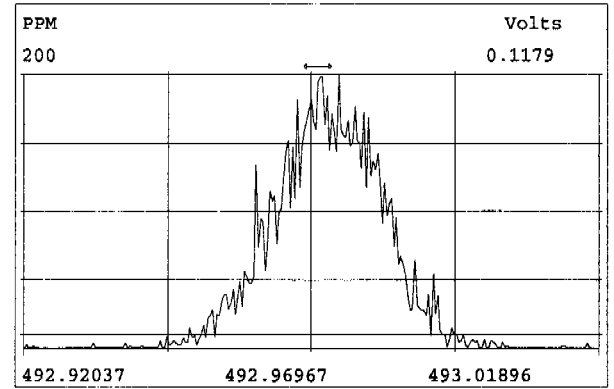
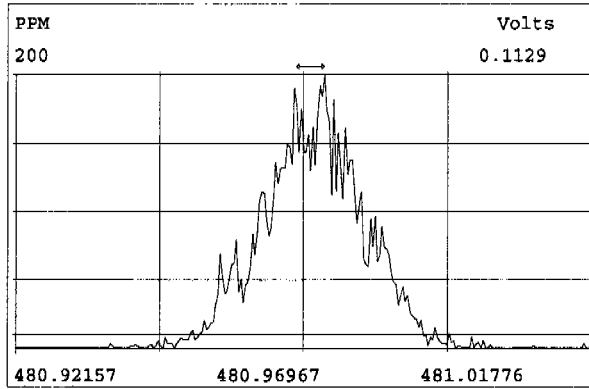
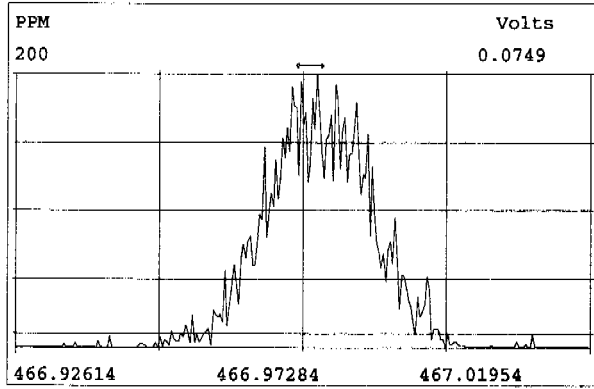
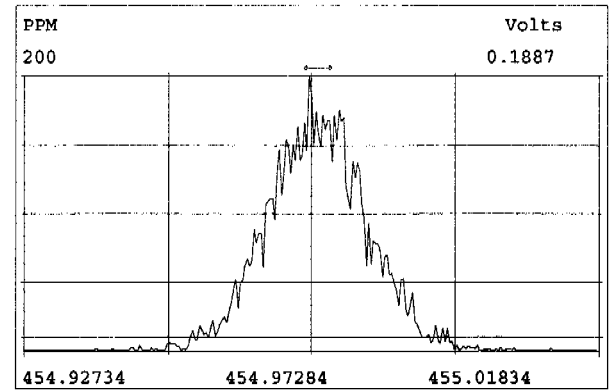
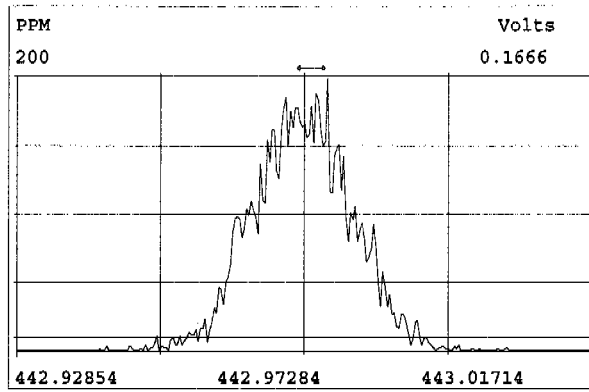
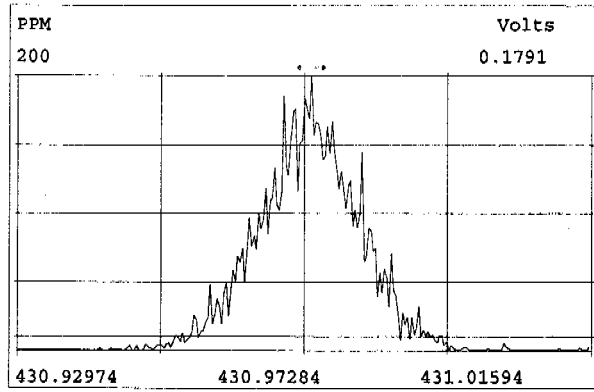












Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.73e+07	0.79 y	1.08	26:34	10.177		* 2.5		*	Total Tetra-Dioxins	10.238	10.310	*	*	
1,2,3,7,8-PeCDD	8.22e+07	0.63 y	1.03	31:17	51.086		* 2.5		*	Total Penta-Dioxins	51.086	51.131	*	*	
1,2,3,4,7,8-HxCDD	7.49e+07	1.27 y	1.13	34:34	49.404		* 2.5		*	Total Hexa-Dioxins	155.83	156.52	*	*	
1,2,3,6,7,8-HxCDD	8.77e+07	1.26 y	1.03	34:41	53.502		* 2.5		*	Total Hepta-Dioxins	49.585	49.917	*	*	
1,2,3,7,8,9-HxCDD	8.63e+07	1.27 y	1.12	34:59	52.828		* 2.5		*	Total Tetra-Furans	10.228	10.271	*	*	
1,2,3,4,6,7,8-HpCDD	7.21e+07	1.06 y	1.02	38:32	49.541		* 2.5		*	Total Penta-Furans	103.59	103.93	*	*	
OCDD	1.33e+08	0.89 y	1.06	41:51	97.377		* 2.5		*	Total Hexa-Furans	198.49	198.65	*	*	
										Total Hepta-Furans	99.713	100.55	*	*	
2,3,7,8-TCDF	2.25e+07	0.77 y	1.06	25:43	10.004		* 2.5		*						
1,2,3,7,8-PeCDF	1.09e+08	1.55 y	1.01	30:03	50.447		* 2.5		*						
2,3,4,7,8-PeCDF	1.20e+08	1.54 y	1.02	30:60	51.163		* 2.5		*						
1,2,3,4,7,8-HxCDF	1.06e+08	1.20 y	1.15	33:41	50.462		* 2.5		*						
1,2,3,6,7,8-HxCDF	1.27e+08	1.22 y	1.14	33:50	49.315		* 2.5		*						
2,3,4,6,7,8-HxCDF	1.10e+08	1.23 y	1.17	34:25	46.925		* 2.5		*						
1,2,3,7,8,9-HxCDF	9.74e+07	1.25 y	1.10	35:21	51.523		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	9.52e+07	1.01 y	1.31	37:08	49.746		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	8.39e+07	1.01 y	1.33	39:04	49.924		* 2.5		*						
OCDF	1.52e+08	0.87 y	0.91	42:02			* 2.5		*						
IS	13C-2,3,7,8-TCDD	1.57e+08	0.78 y	1.09	26:32	94.685				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	1.56e+08	0.64 y	1.04	31:16	98.317				94.7					
IS	13C-1,2,3,4,7,8-HxCDD	1.34e+08	1.27 y	0.83	34:34	100.36				98.3					
IS	13C-1,2,3,6,7,8-HxCDD	1.59e+08	1.28 y	1.04	34:40	95.078				100					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.43e+08	1.08 y	0.85	38:31	104.81				95.1					
IS	13C-OCDD	2.59e+08	0.90 y	0.71	41:50	225.79				105					
IS	13C-2,3,7,8-TCDF	2.12e+08	0.80 y	0.96	25:42					113					
IS	13C-1,2,3,7,8-PeCDF	2.14e+08	1.59 y	1.02	30:02					+94.0					
IS	13C-2,3,4,7,8-PeCDF	2.29e+08	1.59 y	1.02	30:59					+89.2					
IS	13C-1,2,3,4,7,8-HxCDF	1.84e+08	0.51 y	1.14	33:41	99.916				+95.5					
IS	13C-1,2,3,6,7,8-HxCDF	2.27e+08	0.52 y	1.40	33:49	100.76									
IS	13C-2,3,4,6,7,8-HxCDF	2.01e+08	0.52 y	1.26	34:24	99.050									
IS	13C-1,2,3,7,8,9-HxCDF	1.72e+08	0.52 y	1.08	35:20	98.961									
IS	13C-1,2,3,4,6,7,8-HpCDF	1.46e+08	0.43 y	0.93	37:08	97.155									
IS	13C-1,2,3,4,7,8,9-HpCDF	1.27e+08	0.43 y	0.77	39:03	102.95									
IS	13C-OCDF	*	* n	0.94	NotF η	*									
C/Up	37C1-2,3,7,8-TCDD	1.66e+07		0.77	26:33	14.069				141					
RS/RT	13C-1,2,3,4-TCDD	1.52e+08	0.80 y	1.00	25:54	100.00									
RS	13C-1,2,3,4-TCDF	*	* n	1.00	NotF η	*									
RS/RT	13C-1,2,3,7,8,9-HxCDD	1.61e+08	1.27 y	1.00	34:57	100.00									

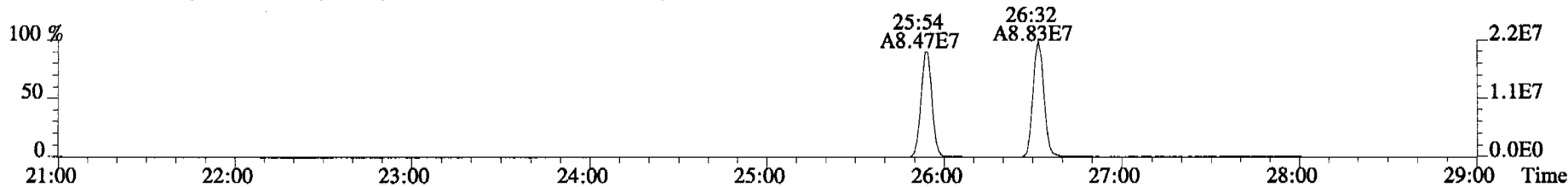
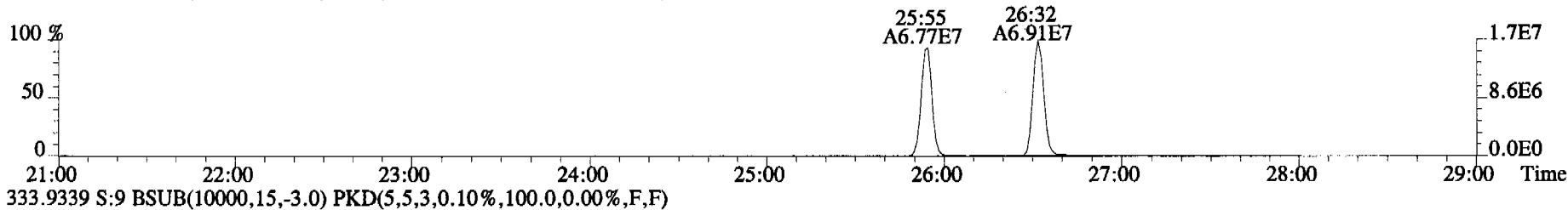
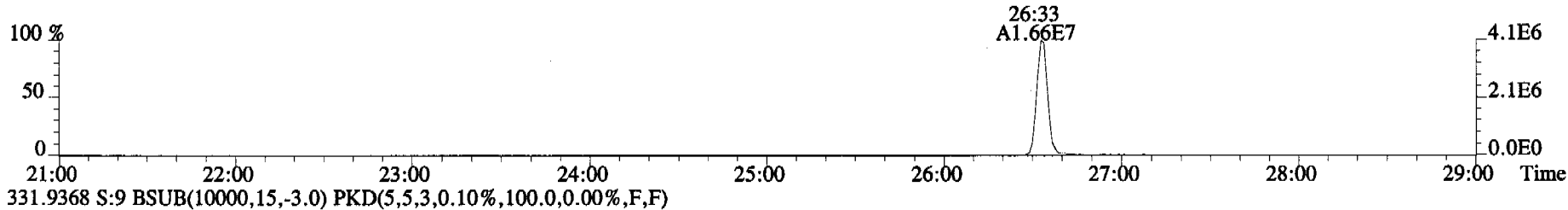
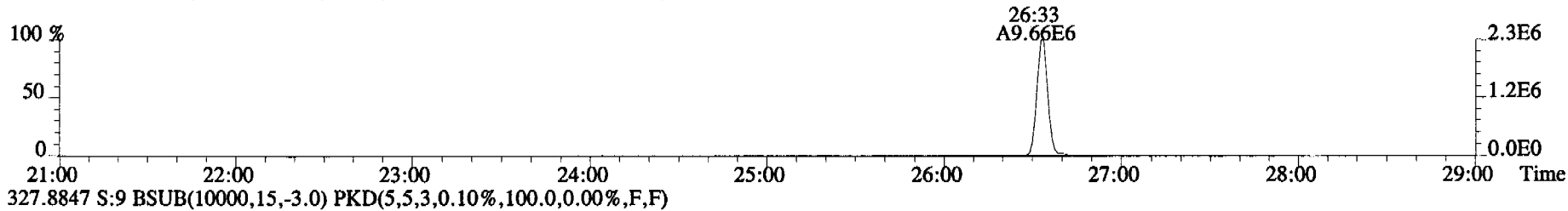
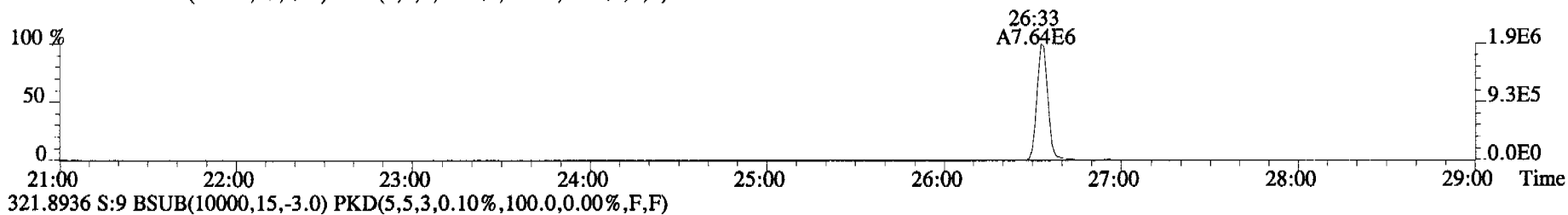
*98.84 Daily RRF = 1.19 using OCDD

*Daily RRF = 1.46 using TCDD
 *Daily RRF = 1.58 using TCDD
 *Daily RRF = 1.58 using TCDD

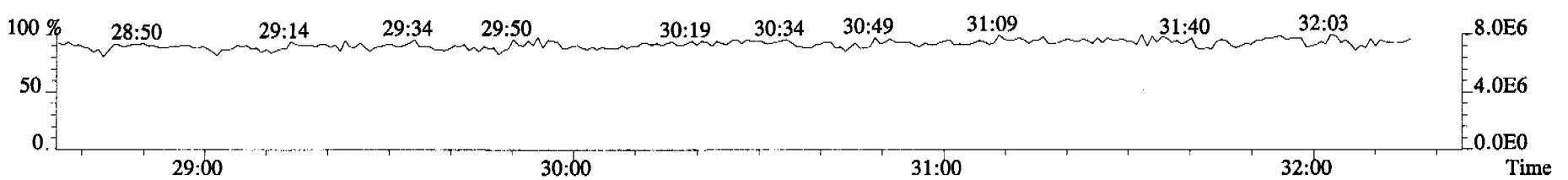
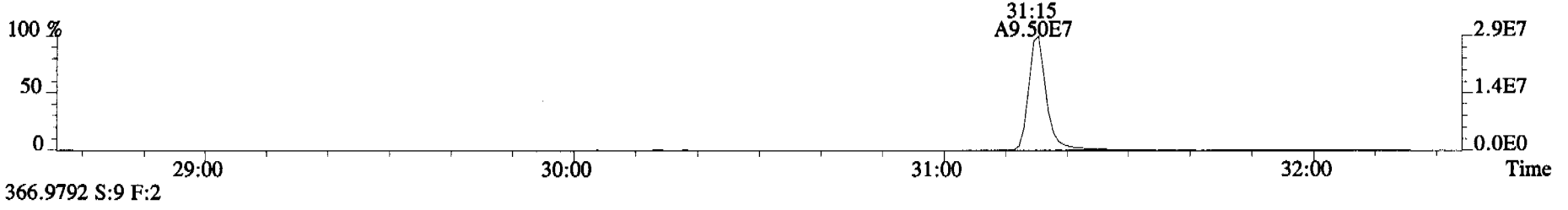
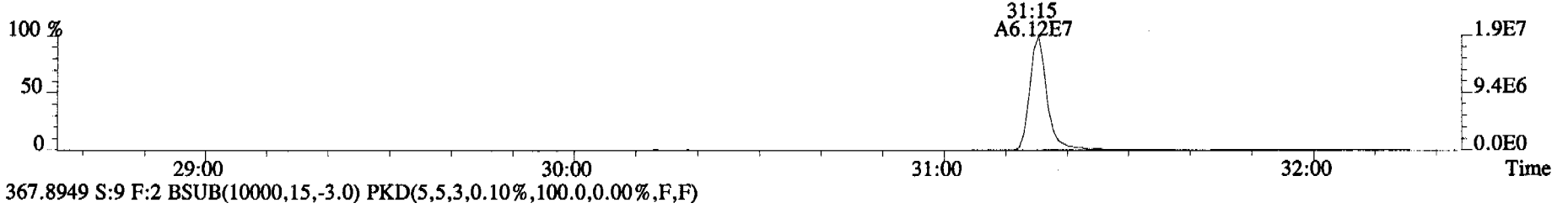
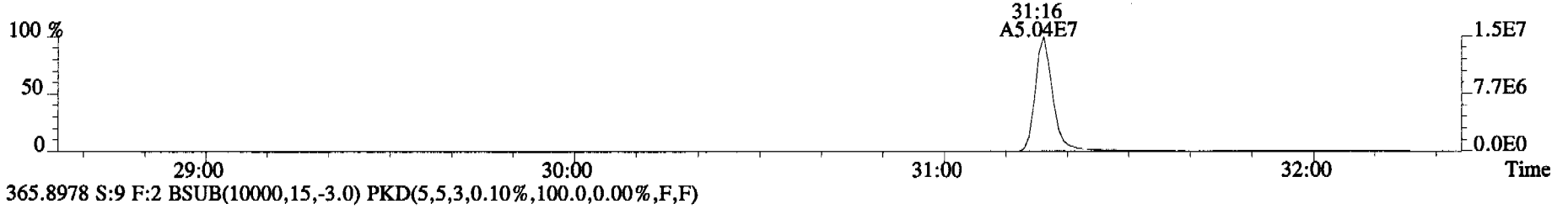
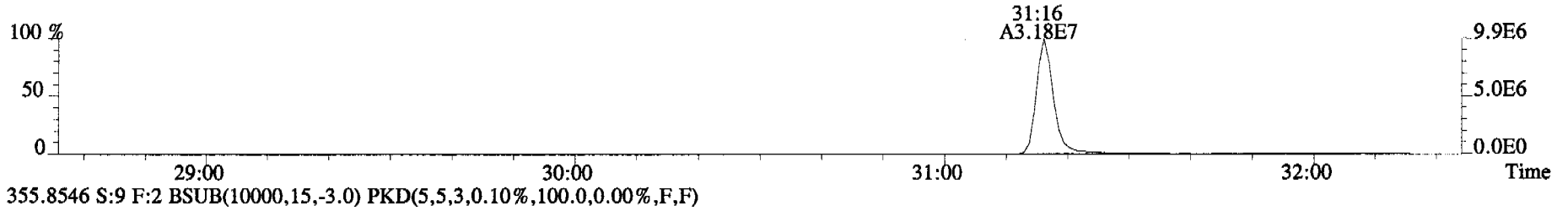
Integrations Reviewed
 by my by
 Analyst: _____ Analyst: _____

Date: 3/23/06 Date: _____

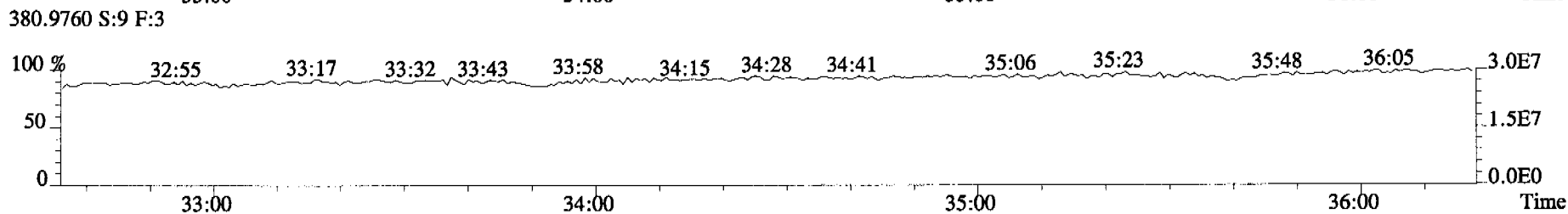
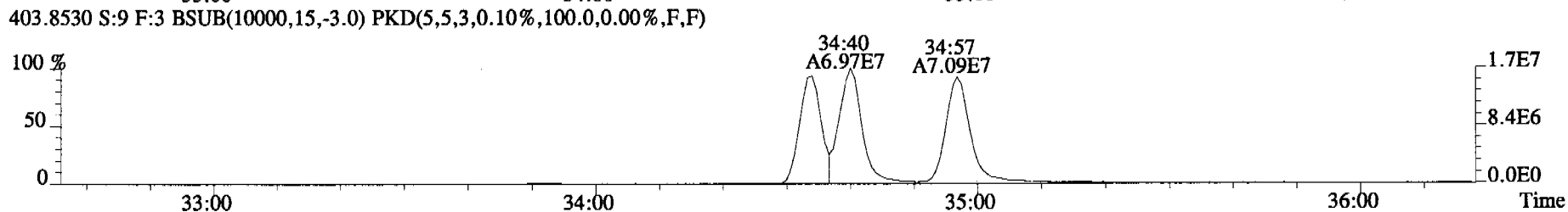
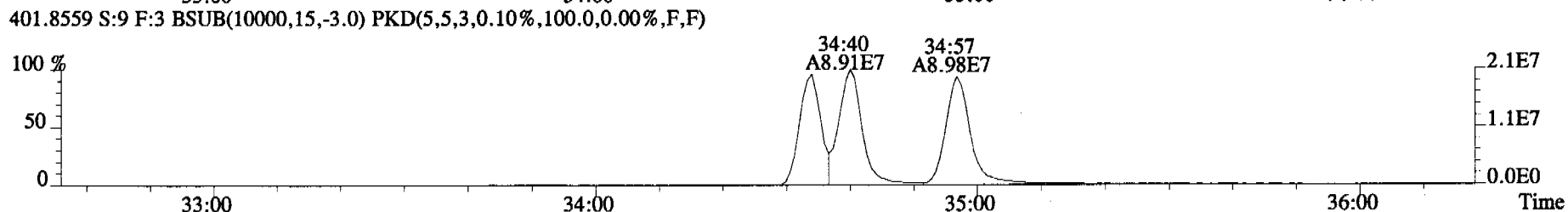
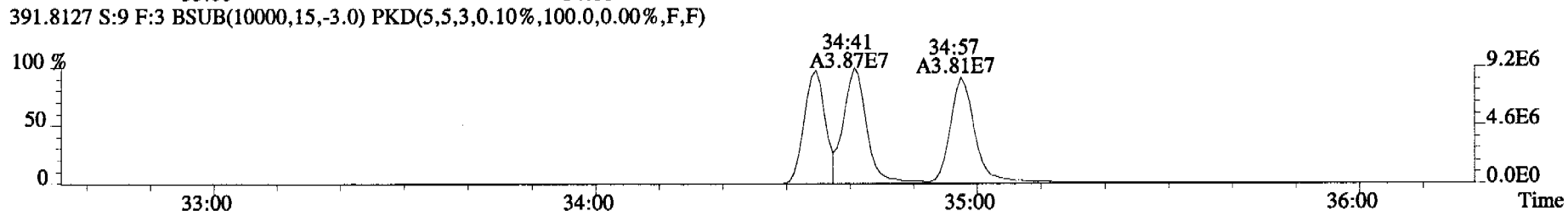
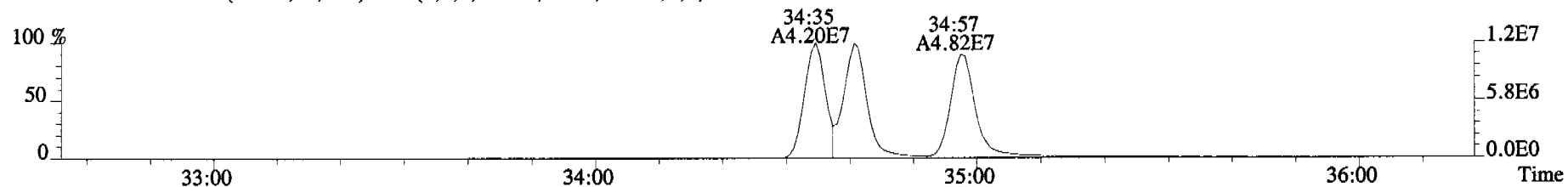
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



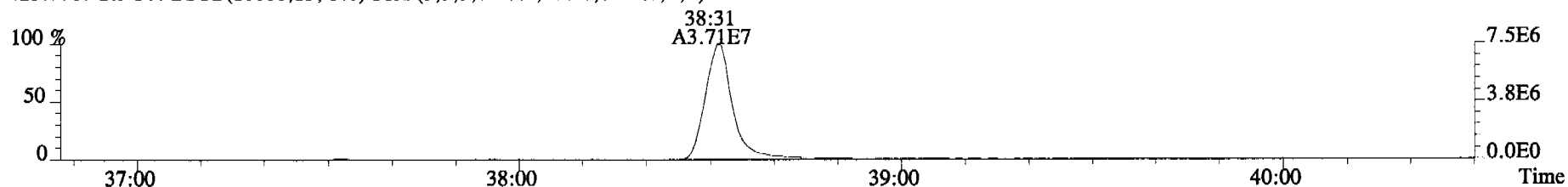
File:060322C1 #1-316 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



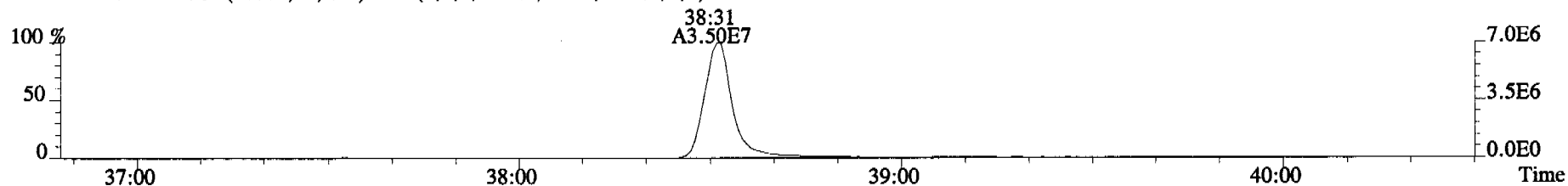
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



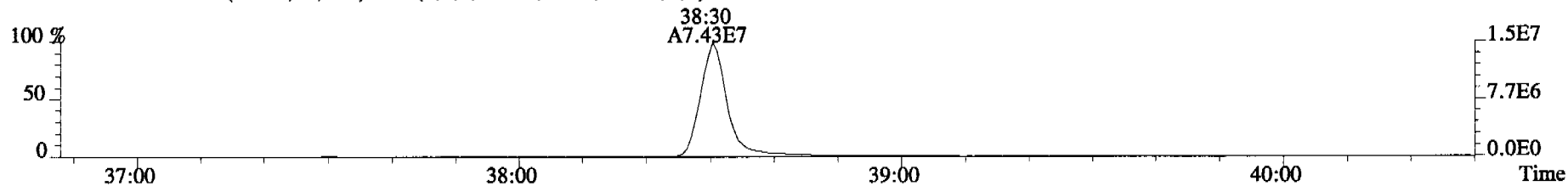
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



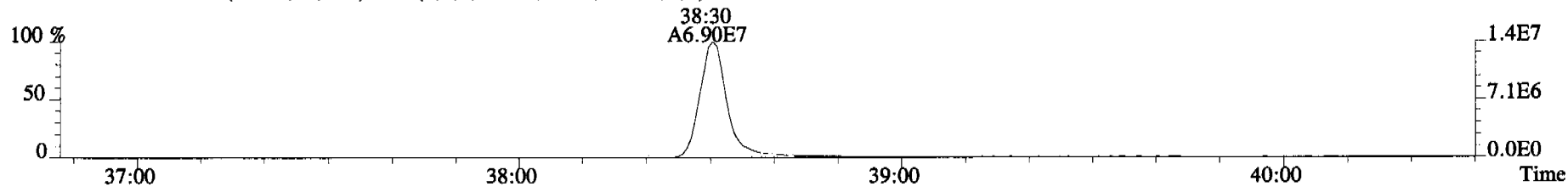
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



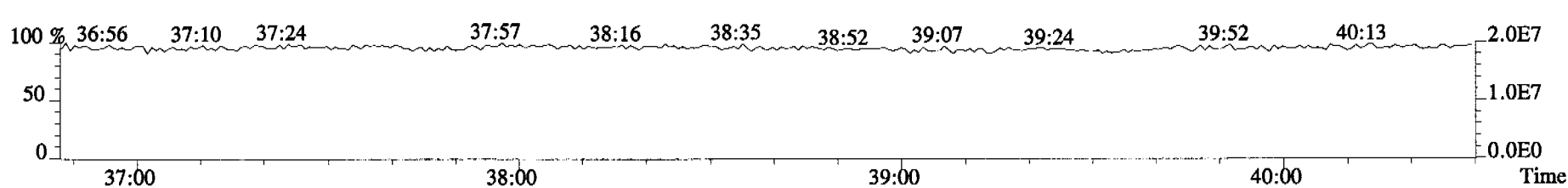
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



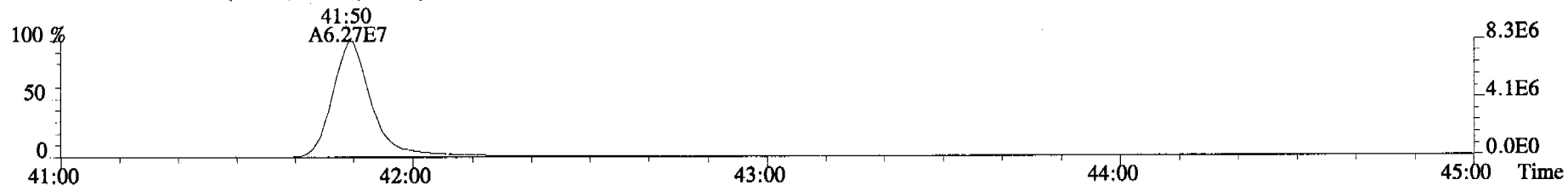
437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



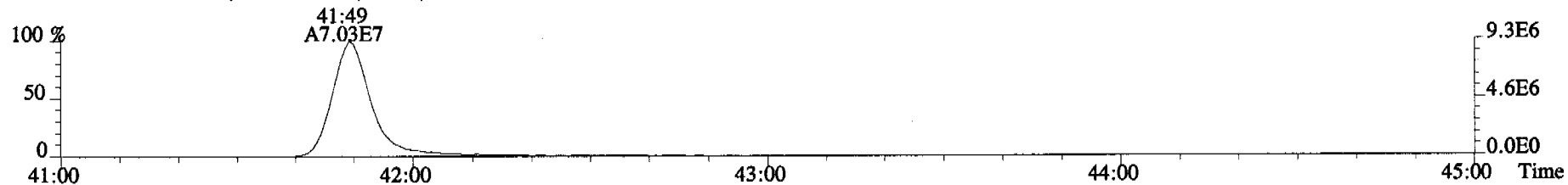
430.9728 S:9 F:4



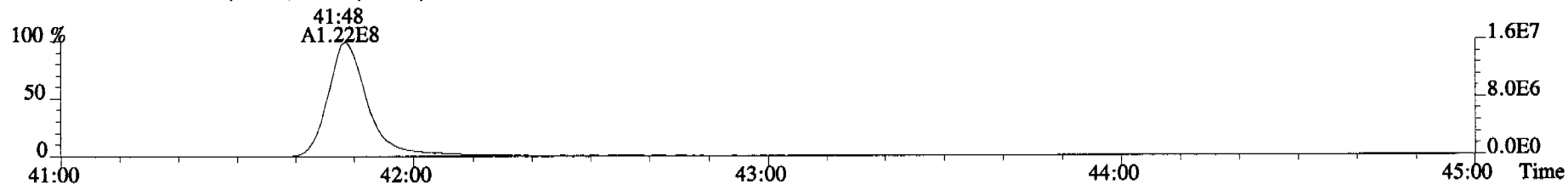
File:060322C1 #1-345 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



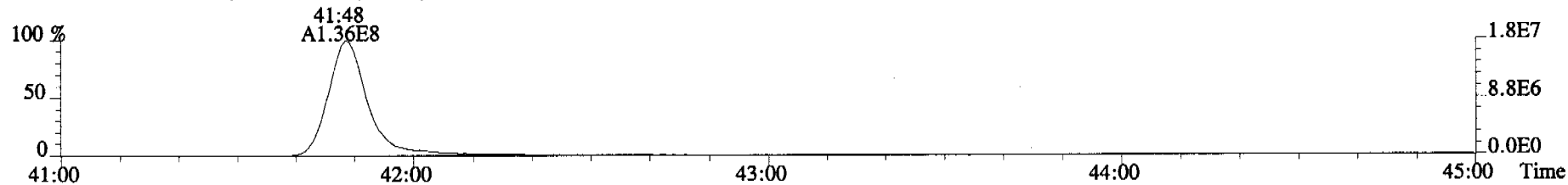
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



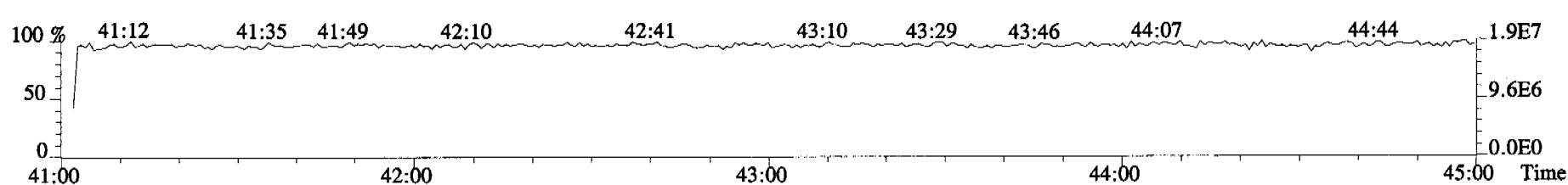
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



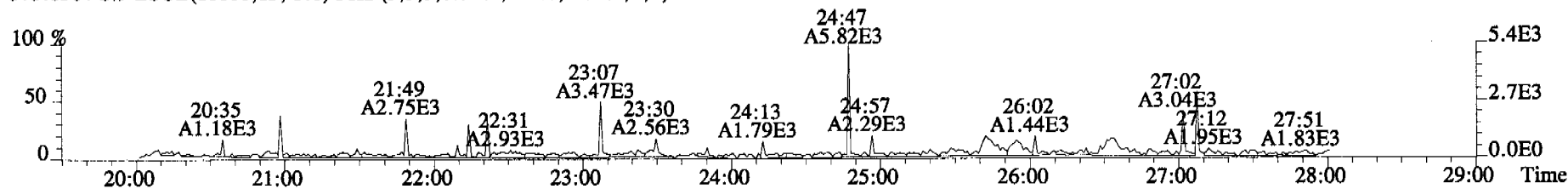
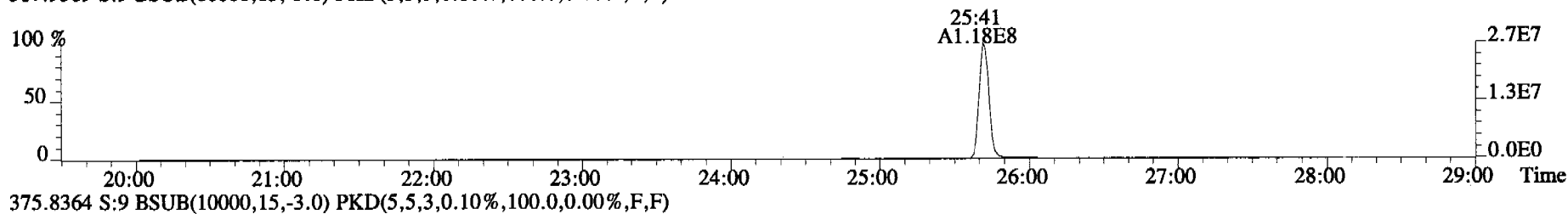
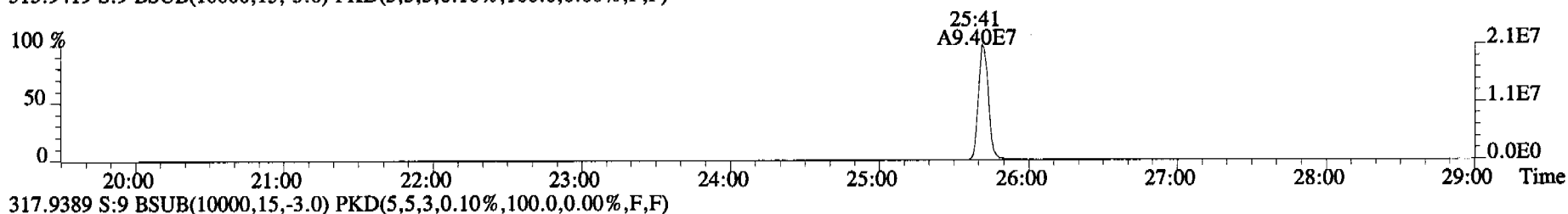
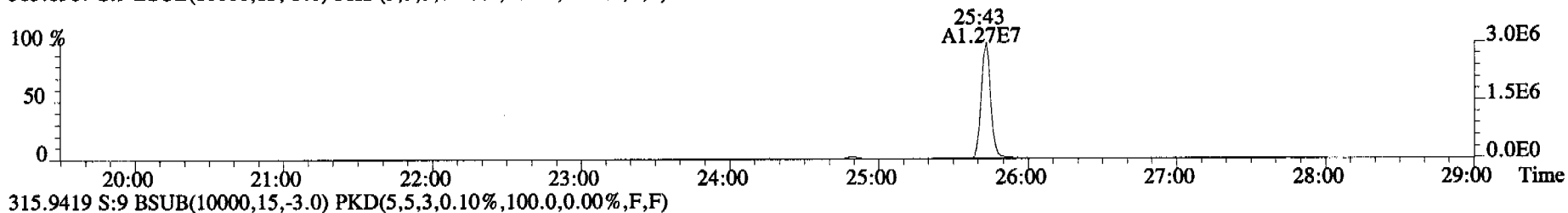
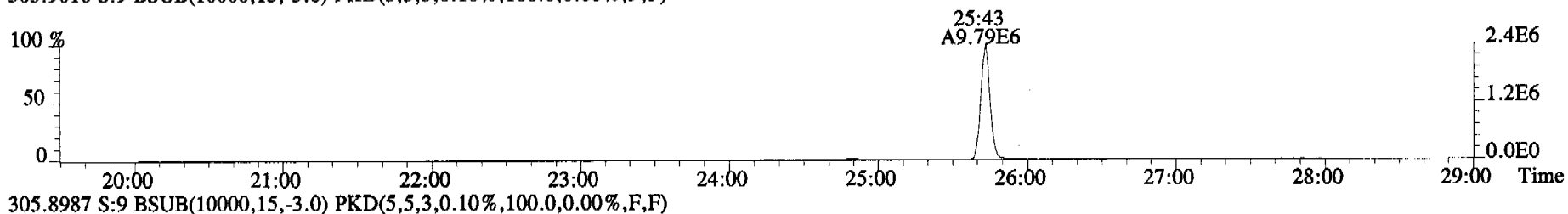
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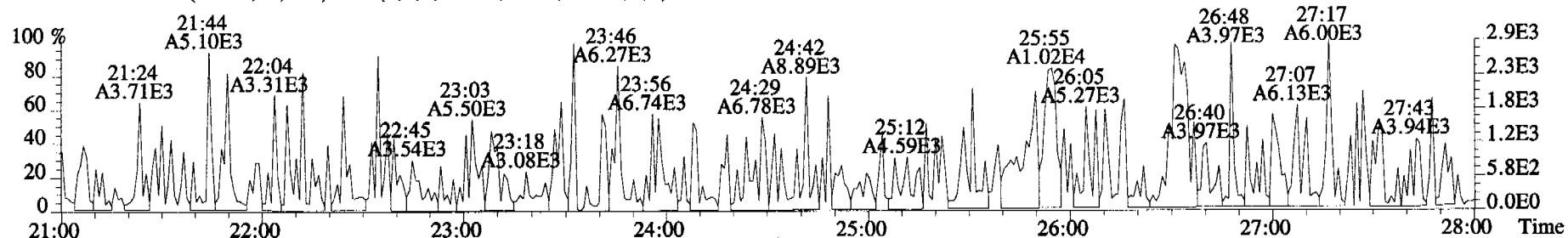
454.9728 S:9 F:5



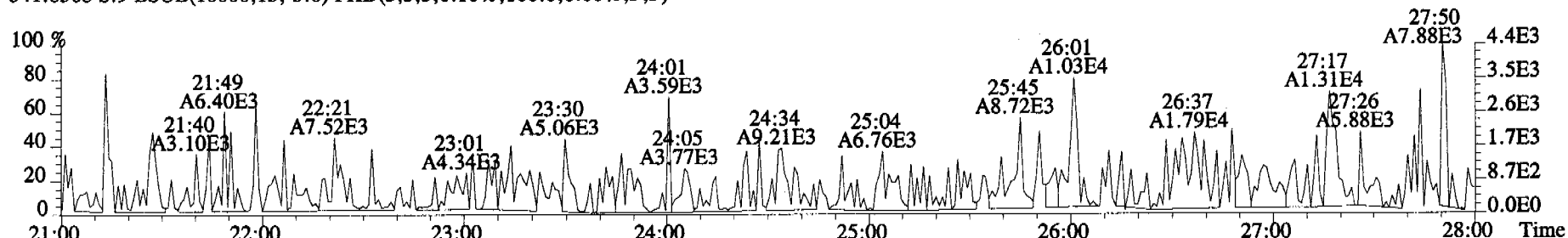
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



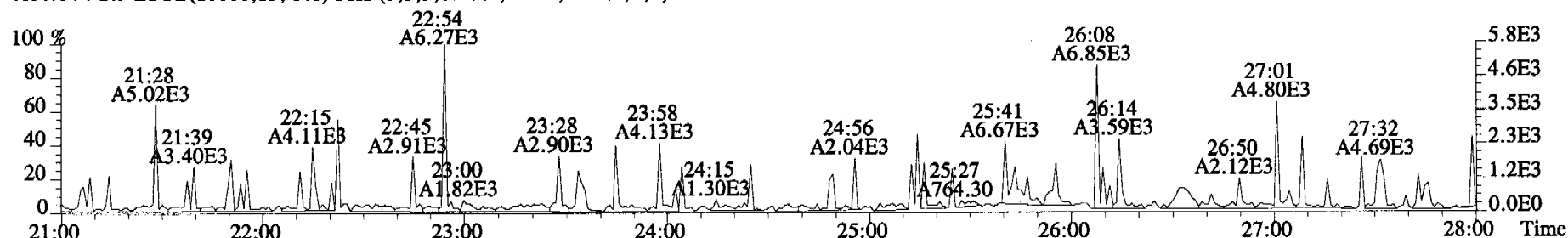
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



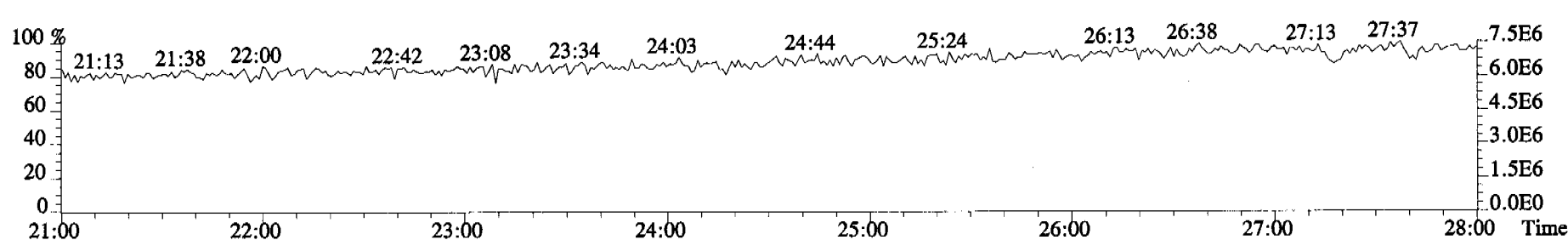
341.8568 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



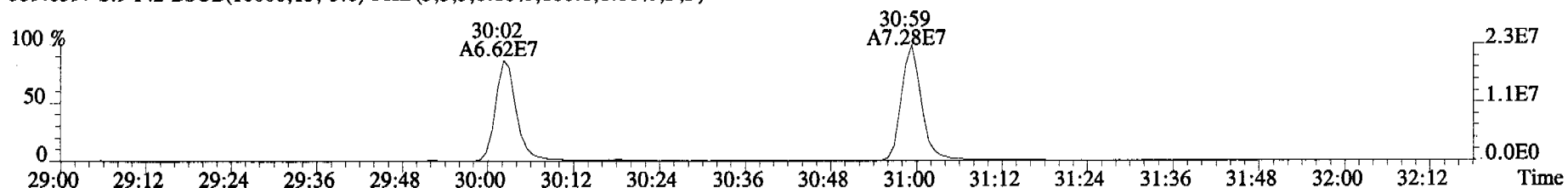
409.7974 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



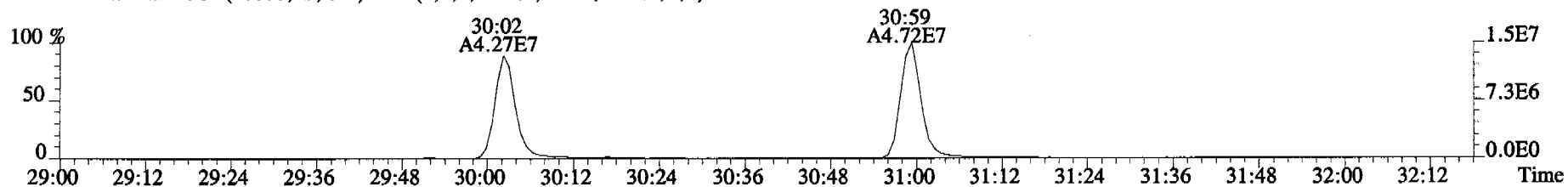
316.9824 S:9



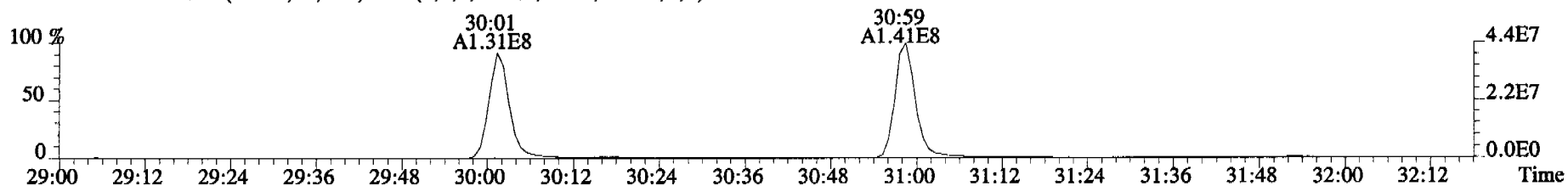
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



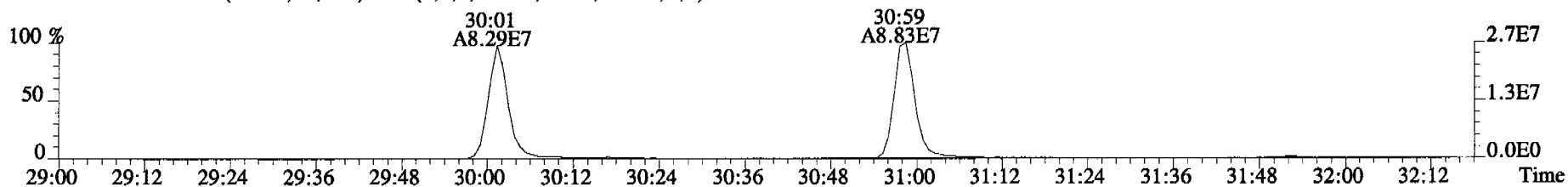
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



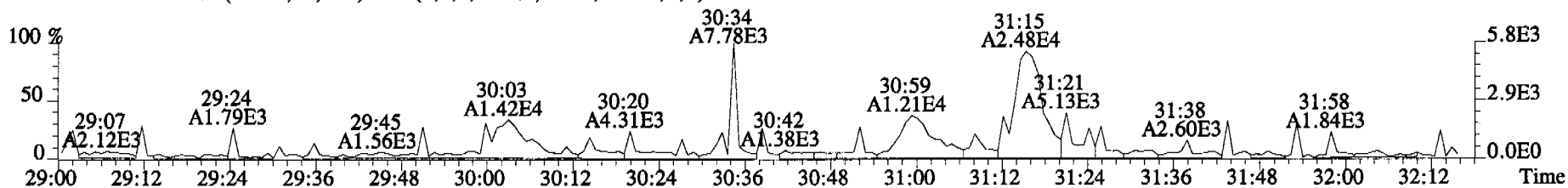
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



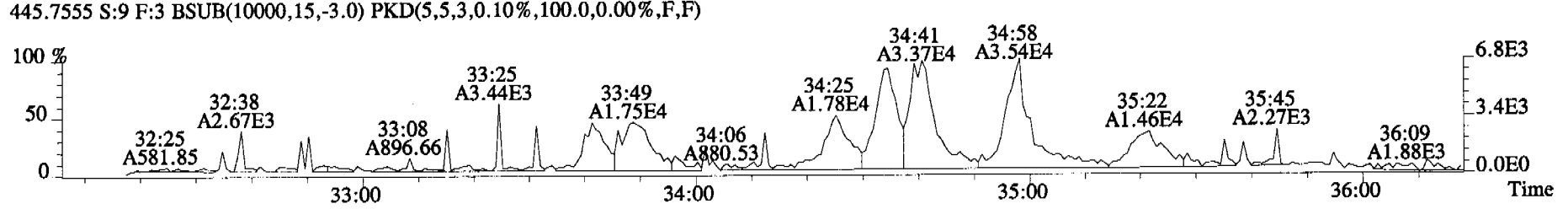
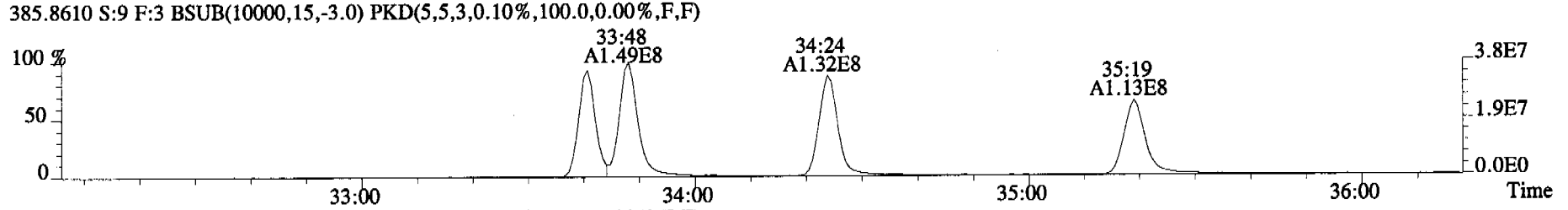
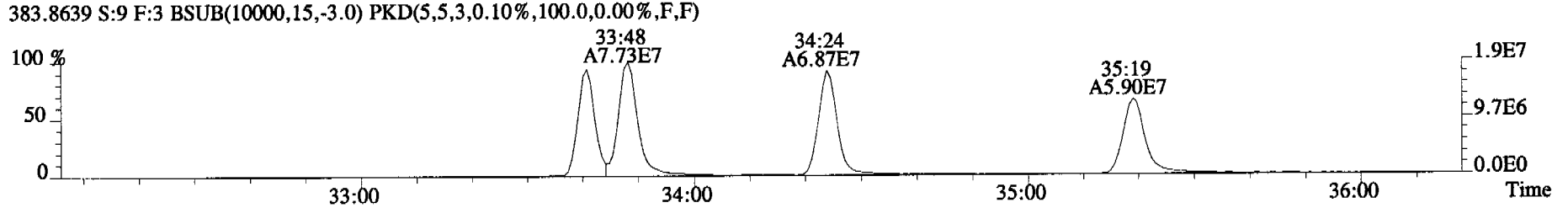
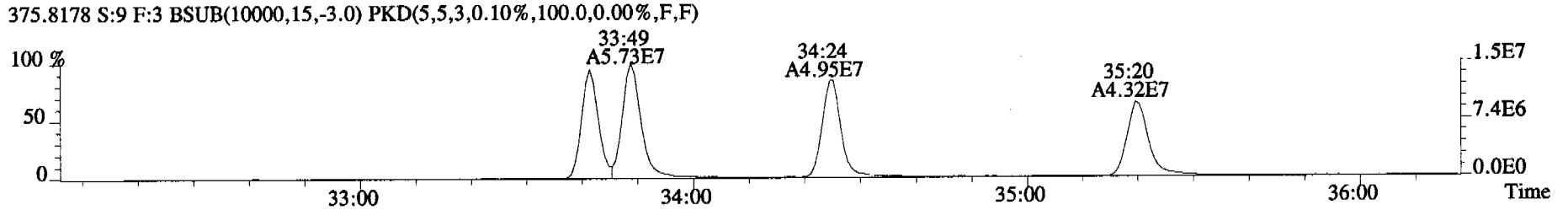
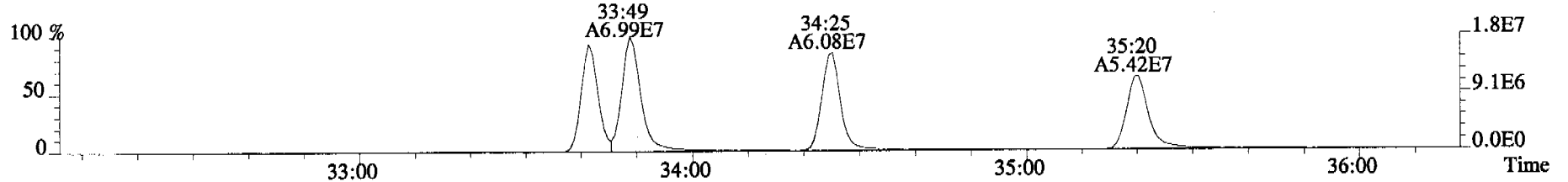
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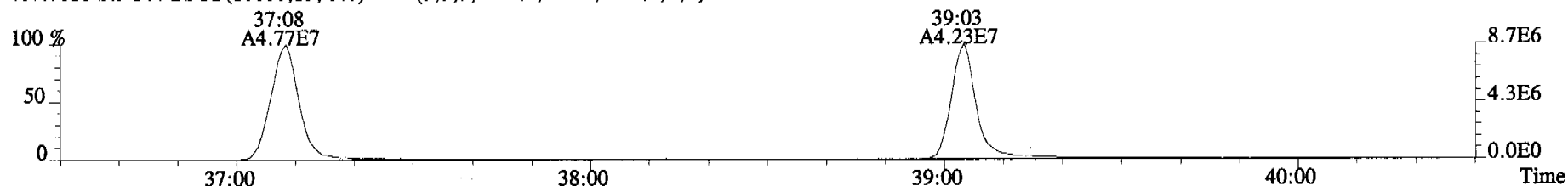
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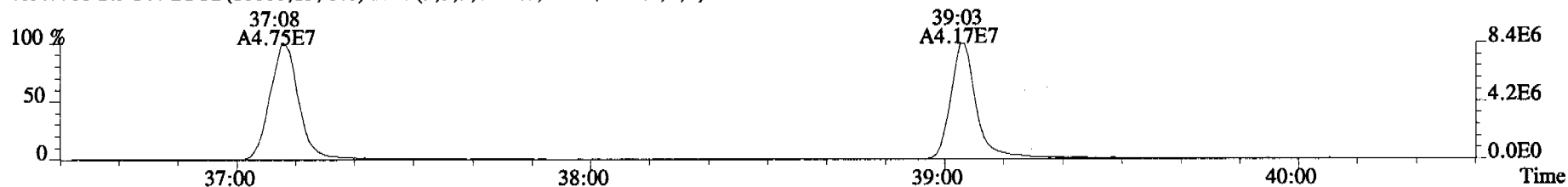
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



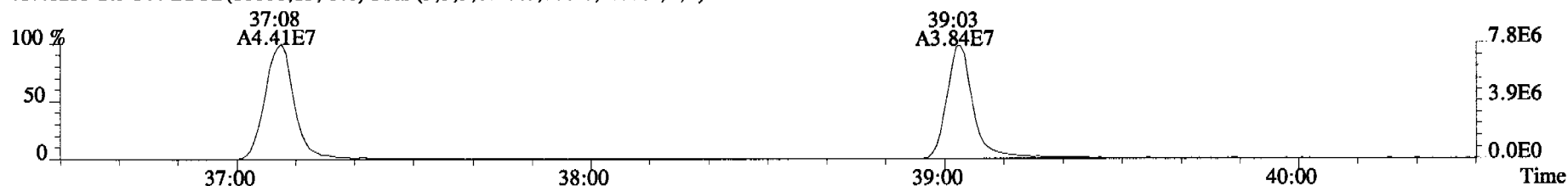
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



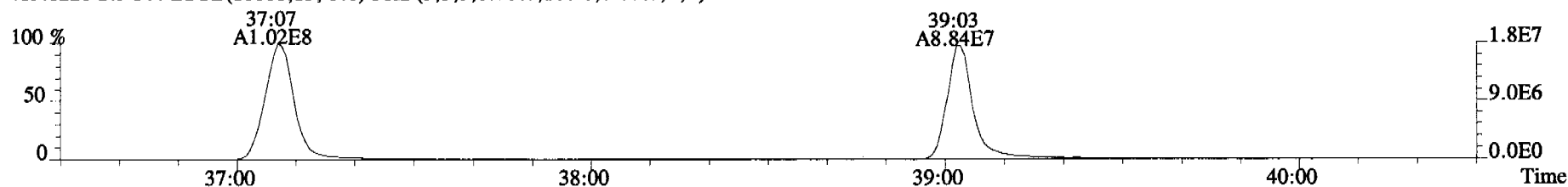
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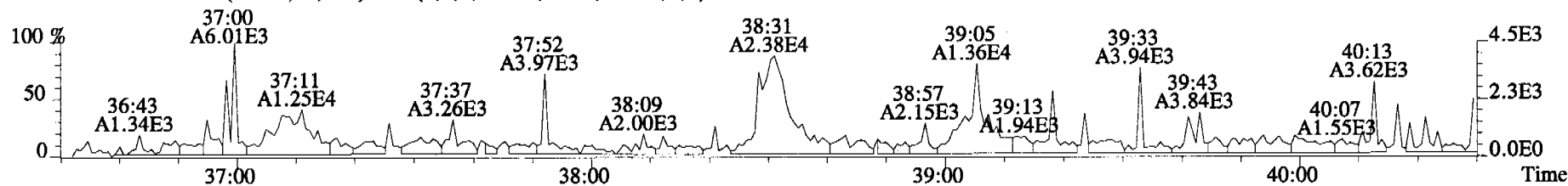
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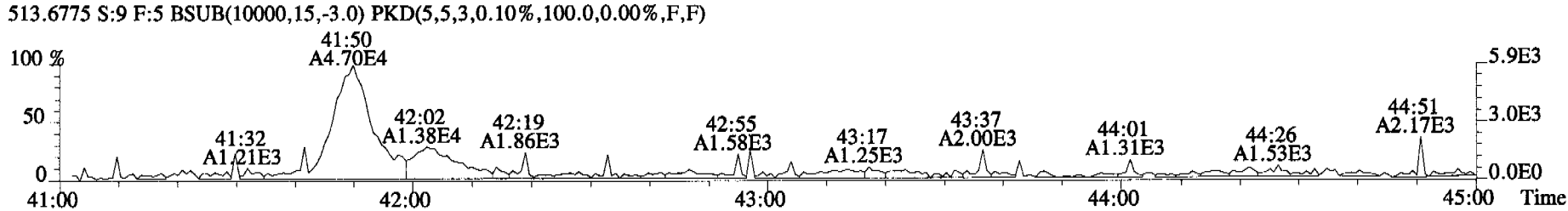
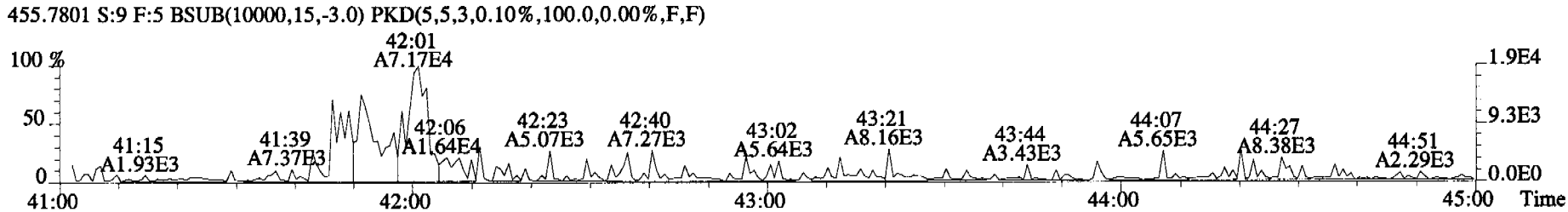
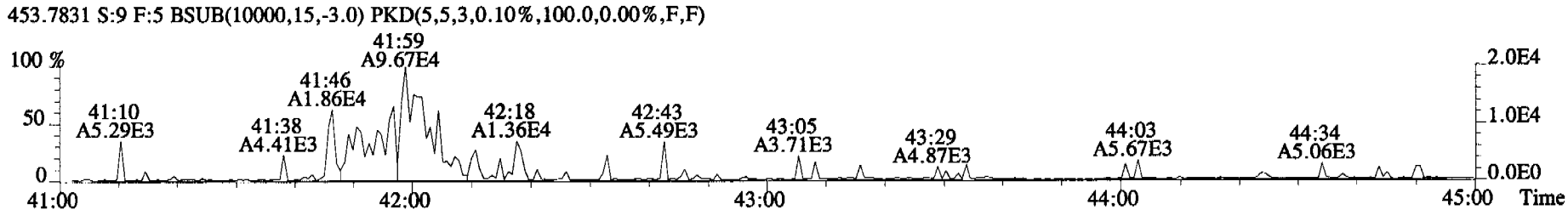
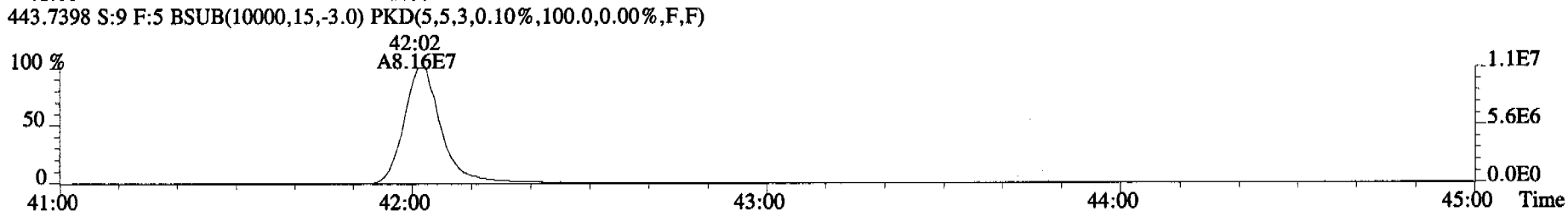
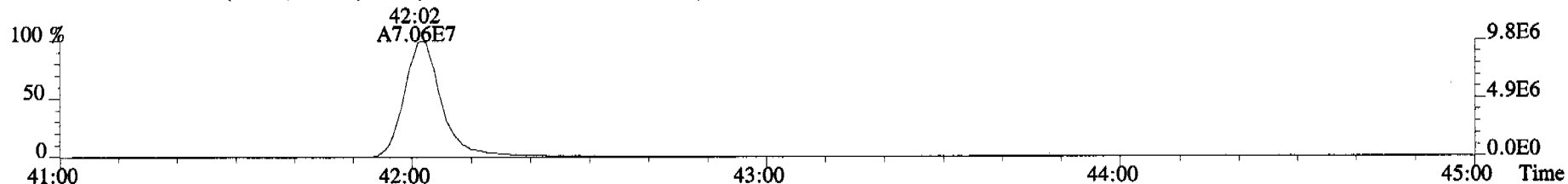
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:060322C1 #1-345 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD_DB5
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/14/06
Received: 09/14/06
Issued: 09/28/06 18:07

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPI1292-01

CLIENT ID
V-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI1292

Sampled: 09/14/06
 Received: 09/14/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1292-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6118075	0.015	0.040	0.096	1	09/18/06	09/20/06	
Sample ID: IPI1292-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6118070	0.050	2.0	0.32	1	09/18/06	09/18/06	J
Arsenic	EPA 200.7	6118075	4.4	5.0	ND	1	09/18/06	09/20/06	
Beryllium	EPA 200.7	6118075	0.90	2.0	ND	1	09/18/06	09/20/06	
Cadmium	EPA 200.8	6118070	0.025	1.0	ND	1	09/18/06	09/18/06	
Chromium	EPA 200.7	6118075	2.0	5.0	ND	1	09/18/06	09/20/06	
Copper	EPA 200.8	6119133	0.25	2.0	2.0	1	09/19/06	09/20/06	B
Lead	EPA 200.8	6118070	0.040	1.0	0.10	1	09/18/06	09/18/06	J
Manganese	EPA 200.7	6118075	7.0	20	410	1	09/18/06	09/20/06	
Mercury	EPA 245.1	6115062	0.15	0.20	ND	1	09/15/06	09/15/06	
Nickel	EPA 200.7	6118075	2.0	10	ND	1	09/18/06	09/20/06	
Selenium	EPA 200.8	6118070	0.30	2.0	0.36	1	09/18/06	09/18/06	J
Silver	EPA 200.8	6118070	0.025	1.0	ND	1	09/18/06	09/18/06	
Thallium	EPA 200.8	6118070	0.15	1.0	ND	1	09/18/06	09/18/06	
Zinc	EPA 200.7	6118075	15	20	ND	1	09/18/06	09/20/06	

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Sampled: 09/14/06
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1292-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6115121	0.015	0.040	ND	1	09/15/06	09/23/06	
Sample ID: IPI1292-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6118073	0.050	2.0	0.41	1	09/18/06	09/18/06	J
Arsenic	EPA 200.7-Diss	6115121	4.4	5.0	ND	1	09/15/06	09/23/06	
Beryllium	EPA 200.7-Diss	6115121	0.90	2.0	ND	1	09/15/06	09/23/06	
Cadmium	EPA 200.8-Diss	6118073	0.025	1.0	ND	1	09/18/06	09/18/06	
Chromium	EPA 200.7-Diss	6115121	2.0	5.0	ND	1	09/15/06	09/23/06	
Copper	EPA 200.8-Diss	6118073	0.25	2.0	1.4	1	09/18/06	09/18/06	B, J
Lead	EPA 200.8-Diss	6118073	0.040	1.0	ND	1	09/18/06	09/18/06	
Manganese	EPA 200.7-Diss	6115121	7.0	20	240	1	09/15/06	09/23/06	
Mercury	EPA 245.1-Diss	6118082	0.15	0.20	ND	1	09/18/06	09/18/06	
Nickel	EPA 200.7-Diss	6115121	2.0	10	2.4	1	09/15/06	09/23/06	J
Selenium	EPA 200.8-Diss	6118073	0.30	2.0	0.46	1	09/18/06	09/18/06	J
Silver	EPA 200.8-Diss	6118073	0.025	1.0	ND	1	09/18/06	09/18/06	
Thallium	EPA 200.8-Diss	6118073	0.15	1.0	ND	1	09/18/06	09/18/06	
Zinc	EPA 200.7-Diss	6115121	15	20	ND	1	09/15/06	09/23/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1292-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I22108	N/A	NA	1.0	1	09/22/06	09/22/06	
Sample ID: IPI1292-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I25082	10	10	ND	1	09/25/06	09/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I20101	0.43	0.50	0.84	1	09/20/06	09/20/06	
Alkalinity as CaCO3	EPA 310.1	6I20071	2.0	2.0	150	1	09/20/06	09/20/06	
Ammonia-N (Distilled)	EPA 350.2	6I16057	0.30	0.50	0.56	1	09/16/06	09/16/06	
Hardness (as CaCO3)	SM2340B	6I18075	1.0	1.0	170	1	09/18/06	09/20/06	
Nitrate-N	EPA 300.0	6I14139	0.080	0.15	ND	1	09/14/06	09/15/06	
Nitrite-N	EPA 300.0	6I14139	0.080	0.15	0.15	1	09/14/06	09/15/06	
Nitrate/Nitrite-N	EPA 300.0	6I14139	0.080	0.15	0.18	1	09/14/06	09/15/06	
Oil & Grease	EPA 413.1	6I16001	0.91	4.9	ND	1	09/16/06	09/16/06	
Sulfate	EPA 300.0	6I15041	2.2	2.5	83	5	09/15/06	09/15/06	
Total Dissolved Solids	SM2540C	6I15073	10	10	370	1	09/15/06	09/15/06	
Total Organic Carbon	EPA 415.1	6I20145	0.50	1.0	10	1	09/20/06	09/20/06	
Total Suspended Solids	EPA 160.2	6I20128	10	10	ND	1	09/20/06	09/20/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1292-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I15115	0.040	1.0	1.8	1	09/15/06	09/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1292-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I15082	N/A	NA	7.66	1	09/15/06	09/15/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1292-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I15074	N/A	1.0	600	1	09/15/06	09/15/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: V-EFF (IPI1292-01) - Water					
EPA 150.1	1	09/14/2006 08:50	09/14/2006 18:15	09/15/2006 09:25	09/15/2006 10:45
EPA 180.1	2	09/14/2006 08:50	09/14/2006 18:15	09/15/2006 14:00	09/15/2006 15:35
EPA 300.0	2	09/14/2006 08:50	09/14/2006 18:15	09/14/2006 21:00	09/15/2006 00:26
Filtration	1	09/14/2006 08:50	09/14/2006 18:15	09/15/2006 16:50	09/15/2006 16:50

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Sampled: 09/14/06
 Received: 09/14/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15062 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15062-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/15/2006 (6I15062-BS1)											
Mercury	8.40	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)											
						Source: IPI1162-01					
Mercury	8.20	0.20	0.15	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)											
						Source: IPI1162-01					
Mercury	8.24	0.20	0.15	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6I18070 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18070-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18070-BS1)											
Antimony	78.2	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.0	1.0	0.025	ug/l	80.0		98	85-115			
Lead	79.6	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	78.8	2.0	0.30	ug/l	80.0		98	85-115			
Silver	78.3	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	80.0	1.0	0.15	ug/l	80.0		100	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I18070 Extracted: 09/18/06											
Matrix Spike Analyzed: 09/18/2006 (6I18070-MS1)						Source: IPI1353-01					
Antimony	79.4	2.0	0.050	ug/l	80.0	0.053	99	70-130			
Cadmium	73.3	1.0	0.025	ug/l	80.0	ND	92	70-130			
Lead	75.8	1.0	0.040	ug/l	80.0	1.1	93	70-130			
Selenium	75.2	2.0	0.30	ug/l	80.0	ND	94	70-130			
Silver	72.3	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Analyzed: 09/18/2006 (6I18070-MS2)						Source: IPI1353-02					
Antimony	79.4	2.0	0.050	ug/l	80.0	ND	99	70-130			
Cadmium	73.0	1.0	0.025	ug/l	80.0	ND	91	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.8	94	70-130			
Selenium	75.4	2.0	0.30	ug/l	80.0	ND	94	70-130			
Silver	72.5	1.0	0.025	ug/l	80.0	ND	91	70-130			
Thallium	75.1	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 09/18/2006 (6I18070-MSD1)						Source: IPI1353-01					
Antimony	79.3	2.0	0.050	ug/l	80.0	0.053	99	70-130	0	20	
Cadmium	73.6	1.0	0.025	ug/l	80.0	ND	92	70-130	0	20	
Lead	75.6	1.0	0.040	ug/l	80.0	1.1	93	70-130	0	20	
Selenium	77.2	2.0	0.30	ug/l	80.0	ND	96	70-130	3	20	
Silver	72.3	1.0	0.025	ug/l	80.0	ND	90	70-130	0	20	
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130	0	20	
Batch: 6I18075 Extracted: 09/18/06											
Blank Analyzed: 09/20/2006 (6I18075-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I18075 Extracted: 09/18/06											
LCS Analyzed: 09/20/2006 (6I18075-BS1)											
Arsenic	484	5.0	4.4	ug/l	500		97	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	480	5.0	2.0	ug/l	500		96	85-115			
Iron	0.491	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	479	20	7.0	ug/l	500		96	85-115			
Nickel	475	10	2.0	ug/l	500		95	85-115			
Zinc	483	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01											
Arsenic	500	5.0	4.4	ug/l	500	4.7	99	70-130			
Beryllium	493	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	472	5.0	2.0	ug/l	500	ND	94	70-130			
Iron	0.571	0.040	0.015	mg/l	0.500	0.095	95	70-130			
Manganese	534	20	7.0	ug/l	500	50	97	70-130			
Nickel	465	10	2.0	ug/l	500	ND	93	70-130			
Zinc	478	20	15	ug/l	500	ND	96	70-130			
Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01											
Arsenic	498	5.0	4.4	ug/l	500	4.9	99	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	473	5.0	2.0	ug/l	500	ND	95	70-130			
Iron	0.635	0.040	0.015	mg/l	0.500	0.15	97	70-130			
Manganese	576	20	7.0	ug/l	500	100	95	70-130			
Nickel	467	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	480	20	15	ug/l	500	ND	96	70-130			
Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01											
Arsenic	492	5.0	4.4	ug/l	500	4.7	97	70-130	2	20	
Beryllium	480	2.0	0.90	ug/l	500	ND	96	70-130	3	20	
Chromium	475	5.0	2.0	ug/l	500	ND	95	70-130	1	20	
Iron	0.566	0.040	0.015	mg/l	0.500	0.095	94	70-130	1	20	
Manganese	524	20	7.0	ug/l	500	50	95	70-130	2	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	1	20	
Zinc	475	20	15	ug/l	500	ND	95	70-130	1	20	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I19133 Extracted: 09/19/06											
Blank Analyzed: 09/20/2006 (6I19133-BLK1)											
Copper	1.73	2.0	0.25	ug/l							J
LCS Analyzed: 09/20/2006 (6I19133-BS1)											
Copper	80.8	2.0	0.25	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 09/20/2006 (6I19133-MS1)											
Copper	77.1	2.0	0.25	ug/l	80.0	0.82	95	70-130			
Matrix Spike Dup Analyzed: 09/20/2006 (6I19133-MSD1)											
Copper	75.6	2.0	0.25	ug/l	80.0	0.82	93	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I15121 Extracted: 09/15/06											
Blank Analyzed: 09/23/2006 (6I15121-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/23/2006 (6I15121-BS1)											
Arsenic	1040	5.0	4.4	ug/l	1000		104	85-115			
Beryllium	1040	2.0	0.90	ug/l	1000		104	85-115			
Chromium	1020	5.0	2.0	ug/l	1000		102	85-115			
Iron	1.03	0.040	0.015	mg/l	1.00		103	85-115			
Manganese	1030	20	7.0	ug/l	1000		103	85-115			
Nickel	1020	10	2.0	ug/l	1000		102	85-115			
Zinc	1040	20	15	ug/l	1000		104	85-115			
Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01											
Arsenic	1050	5.0	4.4	ug/l	1000	6.3	104	70-130			
Beryllium	1040	2.0	0.90	ug/l	1000	ND	104	70-130			
Chromium	1010	5.0	2.0	ug/l	1000	ND	101	70-130			
Iron	1.04	0.040	0.015	mg/l	1.00	0.032	101	70-130			
Manganese	1060	20	7.0	ug/l	1000	49	101	70-130			
Nickel	993	10	2.0	ug/l	1000	2.3	99	70-130			
Zinc	1030	20	15	ug/l	1000	36	99	70-130			
Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01											
Arsenic	1070	5.0	4.4	ug/l	1000	6.3	106	70-130	2	20	
Beryllium	1060	2.0	0.90	ug/l	1000	ND	106	70-130	2	20	
Chromium	1030	5.0	2.0	ug/l	1000	ND	103	70-130	2	20	
Iron	1.06	0.040	0.015	mg/l	1.00	0.032	103	70-130	2	20	
Manganese	1070	20	7.0	ug/l	1000	49	102	70-130	1	20	
Nickel	1020	10	2.0	ug/l	1000	2.3	102	70-130	3	20	
Zinc	1050	20	15	ug/l	1000	36	101	70-130	2	20	

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 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI1292

Sampled: 09/14/06
 Received: 09/14/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I18073 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.303	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18073-BS1)											
Antimony	74.5	2.0	0.050	ug/l	80.0		93	85-115			
Cadmium	74.9	1.0	0.025	ug/l	80.0		94	85-115			
Copper	79.0	2.0	0.25	ug/l	80.0		99	85-115			
Lead	80.4	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	77.2	2.0	0.30	ug/l	80.0		96	85-115			
Silver	77.2	1.0	0.025	ug/l	80.0		96	85-115			
Thallium	80.8	1.0	0.15	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1)											
						Source: IPI1226-01					
Antimony	74.1	2.0	0.050	ug/l	80.0	0.22	92	70-130			
Cadmium	68.4	1.0	0.025	ug/l	80.0	0.096	85	70-130			
Copper	73.2	2.0	0.25	ug/l	80.0	6.8	83	70-130			
Lead	75.6	1.0	0.040	ug/l	80.0	0.067	94	70-130			
Selenium	76.1	2.0	0.30	ug/l	80.0	6.1	88	70-130			
Silver	69.4	1.0	0.025	ug/l	80.0	ND	87	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2)											
						Source: IPI1286-01					
Antimony	76.7	2.0	0.050	ug/l	80.0	1.0	95	70-130			
Cadmium	73.5	1.0	0.025	ug/l	80.0	ND	92	70-130			
Copper	74.3	2.0	0.25	ug/l	80.0	6.1	85	70-130			
Lead	76.3	1.0	0.040	ug/l	80.0	0.093	95	70-130			
Selenium	73.8	2.0	0.30	ug/l	80.0	0.77	91	70-130			
Silver	74.5	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	76.5	1.0	0.15	ug/l	80.0	0.36	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I18073 Extracted: 09/18/06											
Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)						Source: IPI1226-01					
Antimony	75.1	2.0	0.050	ug/l	80.0	0.22	94	70-130	1	20	
Cadmium	69.1	1.0	0.025	ug/l	80.0	0.096	86	70-130	1	20	
Copper	71.7	2.0	0.25	ug/l	80.0	6.8	81	70-130	2	20	
Lead	75.6	1.0	0.040	ug/l	80.0	0.067	94	70-130	0	20	
Selenium	77.3	2.0	0.30	ug/l	80.0	6.1	89	70-130	2	20	
Silver	70.2	1.0	0.025	ug/l	80.0	ND	88	70-130	1	20	
Thallium	74.4	1.0	0.15	ug/l	80.0	ND	93	70-130	1	20	
Batch: 6I18082 Extracted: 09/18/06											
Blank Analyzed: 09/18/2006 (6I18082-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/18/2006 (6I18082-BS1)											
Mercury	8.42	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)						Source: IPI1321-01					
Mercury	8.28	0.20	0.15	ug/l	8.00	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)						Source: IPI1321-01					
Mercury	8.17	0.20	0.15	ug/l	8.00	ND	102	70-130	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I14139 Extracted: 09/14/06											
Blank Analyzed: 09/14/2006 (6I14139-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
LCS Analyzed: 09/14/2006 (6I14139-BS1)											
Nitrate-N	1.09	0.15	0.080	mg/l	1.13		96	90-110			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52		95	90-110			
Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13	ND	100	80-120			
Nitrite-N	1.45	0.15	0.080	mg/l	1.52	ND	95	80-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01											
Nitrate-N	1.14	0.15	0.080	mg/l	1.13	ND	101	80-120	1	20	
Nitrite-N	1.46	0.15	0.080	mg/l	1.52	ND	96	80-120	1	20	
Batch: 6I15041 Extracted: 09/15/06											
Blank Analyzed: 09/15/2006 (6I15041-BLK1)											
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/15/2006 (6I15041-BS1)											
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02											
Sulfate	183	2.5	2.2	mg/l	10.0	180	30	80-120			M-HA

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I15041 Extracted: 09/15/06</u>											
Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)						Source: IPI1302-02					
Sulfate	184	2.5	2.2	mg/l	10.0	180	40	80-120	1	20	M-HA
<u>Batch: 6I15073 Extracted: 09/15/06</u>											
Blank Analyzed: 09/15/2006 (6I15073-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/15/2006 (6I15073-BS1)											
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/15/2006 (6I15073-DUP1)						Source: IPI1076-01					
Total Dissolved Solids	1480	10	10	mg/l		1500			1	10	
<u>Batch: 6I15074 Extracted: 09/15/06</u>											
Duplicate Analyzed: 09/15/2006 (6I15074-DUP1)						Source: IPI1120-01					
Specific Conductance	1820	1.0	N/A	umhos/cm		1800			1	5	
<u>Batch: 6I15082 Extracted: 09/15/06</u>											
Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)						Source: IPI1268-01					
pH	6.87	NA	N/A	pH Units		6.85			0	5	
Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)						Source: IPI1293-01					
pH	7.55	NA	N/A	pH Units		7.54			0	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I15115 Extracted: 09/15/06</u>											
Blank Analyzed: 09/15/2006 (6I15115-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)											
Turbidity	3.33	1.0	0.040	NTU		3.4			2	20	
Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)											
Turbidity	1.63	1.0	0.040	NTU		1.6			2	20	
<u>Batch: 6I16001 Extracted: 09/16/06</u>											
Blank Analyzed: 09/16/2006 (6I16001-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/16/2006 (6I16001-BS1)											
Oil & Grease	17.9	5.0	0.94	mg/l	20.0		90	65-120			M-NRI
LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120	1	20	
<u>Batch: 6I16057 Extracted: 09/16/06</u>											
Blank Analyzed: 09/16/2006 (6I16057-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/16/2006 (6I16057-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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Sampled: 09/14/06
 Received: 09/14/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I16057 Extracted: 09/16/06</u>											
Matrix Spike Analyzed: 09/16/2006 (6I16057-MS1)						Source: IPI1286-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120			
Matrix Spike Dup Analyzed: 09/16/2006 (6I16057-MSD1)						Source: IPI1286-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.84	104	70-120	0	15	
<u>Batch: 6I18075 Extracted: 09/18/06</u>											
Blank Analyzed: 09/20/2006 (6I18075-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6I20071 Extracted: 09/20/06</u>											
Duplicate Analyzed: 09/20/2006 (6I20071-DUP1)						Source: IPI1125-01					
Alkalinity as CaCO3	348	2.0	2.0	mg/l		350			1	20	
Reference Analyzed: 09/20/2006 (6I20071-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			
<u>Batch: 6I20101 Extracted: 09/20/06</u>											
Blank Analyzed: 09/20/2006 (6I20101-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/20/2006 (6I20101-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I20101 Extracted: 09/20/06											
LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	2	15	
Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1) Source: IPI1210-01											
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.84	98	85-120			
Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1) Source: IPI1210-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	6	15	
Batch: 6I20128 Extracted: 09/20/06											
Blank Analyzed: 09/20/2006 (6I20128-BLK2)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/20/2006 (6I20128-BS2)											
Total Suspended Solids	1040	10	10	mg/l	1000		104	85-115			
Duplicate Analyzed: 09/20/2006 (6I20128-DUP2) Source: IPI1285-02											
Total Suspended Solids	2270	10	10	mg/l		2100			8	10	
Batch: 6I20145 Extracted: 09/20/06											
Blank Analyzed: 09/20/2006 (6I20145-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/20/2006 (6I20145-BS1)											
Total Organic Carbon	10.7	1.0	0.25	mg/l	10.0		107	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I20145 Extracted: 09/20/06</u>											
Matrix Spike Analyzed: 09/20/2006 (6I20145-MS1)						Source: IPI1211-01					
Total Organic Carbon	6.34	1.0	0.25	mg/l	5.00	1.5	97	80-120			
Matrix Spike Dup Analyzed: 09/20/2006 (6I20145-MSD1)						Source: IPI1211-01					
Total Organic Carbon	6.52	1.0	0.25	mg/l	5.00	1.5	100	80-120	3	20	
<u>Batch: 6I22108 Extracted: 09/22/06</u>											
Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)						Source: IPI0964-02					
Density	0.999	NA	N/A	g/cc		1.0			0	20	

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
1613A/1613B	Water		
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Alta Analytical NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IPI1292-01

TestAmerica - Irvine, CA

Amy Windham For Michele Chamberlin
 Project Manager



October 05, 2006

Alta Project I.D.: 28115

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on September 18, 2006 under your Project Name "IPI1292". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.



Alta Analytical Laboratory, Inc.

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(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 9/18/2006

Alta Lab. ID

Client Sample ID

28115-001

IPI1292-01

SECTION II

Method Blank					EPA Method 1613				
Matrix:	Aqueous	QC Batch No.:	8402	Lab Sample:	0-MB001	Date Analyzed DB-5:	29-Sep-06	Date Analyzed DB-225:	NA
Sample Size:	1.00 L	Date Extracted:	22-Sep-06						
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers	
2,3,7,8-TCDD	ND	0.000000917			IS 13C-2,3,7,8-TCDD	85.7	25 - 164		
1,2,3,7,8-PeCDD	ND	0.00000246			13C-1,2,3,7,8-PeCDD	81.4	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.00000113			13C-1,2,3,4,7,8-HxCDD	81.8	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.00000124			13C-1,2,3,6,7,8-HxCDD	70.4	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.00000115			13C-1,2,3,4,6,7,8-HpCDD	76.2	23 - 140		
1,2,3,4,6,7,8-HpCDD	ND	0.000000961			13C-OCDD	75.7	17 - 157		
OCDD	0.00000329			J	13C-2,3,7,8-TCDF	86.7	24 - 169		
2,3,7,8-TCDF	ND	0.000000846			13C-1,2,3,7,8-PeCDF	80.1	24 - 185		
1,2,3,7,8-PeCDF	ND	0.00000165			13C-2,3,4,7,8-PeCDF	82.3	21 - 178		
2,3,4,7,8-PeCDF	ND	0.00000154			13C-1,2,3,4,7,8-HxCDF	98.1	26 - 152		
1,2,3,4,7,8-HxCDF	ND	0.000000391			13C-1,2,3,6,7,8-HxCDF	84.6	26 - 123		
1,2,3,6,7,8-HxCDF	ND	0.000000400			13C-2,3,4,6,7,8-HxCDF	81.8	28 - 136		
2,3,4,6,7,8-HxCDF	ND	0.000000452			13C-1,2,3,7,8,9-HxCDF	82.1	29 - 147		
1,2,3,7,8,9-HxCDF	ND	0.000000647			13C-1,2,3,4,6,7,8-HpCDF	75.5	28 - 143		
1,2,3,4,6,7,8-HpCDF	ND	0.000000711			13C-1,2,3,4,7,8,9-HpCDF	83.2	26 - 138		
1,2,3,4,7,8,9-HpCDF	ND	0.000000661			13C-OCDF	75.9	17 - 157		
OCDF	ND	0.00000198			CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197		
Totals					Footnotes				
Total TCDD	ND	0.000000917			a. Sample specific estimated detection limit.				
Total PeCDD	ND	0.00000246			b. Estimated maximum possible concentration.				
Total HxCDD	ND	0.00000118			c. Method detection limit.				
Total HpCDD	ND	0.000000961			d. Lower control limit - upper control limit.				
Total TCDF	ND	0.000000846							
Total PeCDF	ND	0.00000159							
Total HxCDF	ND	0.000000461							
Total HpCDF	ND	0.000000687							

Analyst: RAS

Approved By: William J. Luksemburg 05-Oct-2006 11:25

OPR Results				EPA Method 1613			
Matrix:	Aqueous	QC Batch No.:	8402	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	22-Sep-06	Date Analyzed DB-5:	29-Sep-06	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	
2,3,7,8-TCDD	10.0	10.5	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	80.9	25 - 164	
1,2,3,7,8-PeCDD	50.0	48.2	35 - 71	13C-1,2,3,7,8-PeCDD	73.2	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	49.6	35 - 82	13C-1,2,3,4,7,8-HxCDD	68.8	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	48.1	38 - 67	13C-1,2,3,6,7,8-HxCDD	58.9	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	46.9	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	61.8	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	49.8	35 - 70	13C-OCDD	61.4	17 - 157	
OCDD	100	96.7	78 - 144	13C-2,3,7,8-TCDF	83.8	24 - 169	
2,3,7,8-TCDF	10.0	9.95	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	72.5	24 - 185	
1,2,3,7,8-PeCDF	50.0	50.2	40 - 67	13C-2,3,4,7,8-PeCDF	75.8	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.2	34 - 80	13C-1,2,3,4,7,8-HxCDF	77.4	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	50.2	36 - 67	13C-1,2,3,6,7,8-HxCDF	66.1	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	48.7	42 - 65	13C-2,3,4,6,7,8-HxCDF	68.4	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	48.5	35 - 78	13C-1,2,3,7,8,9-HxCDF	66.5	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	50.6	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	61.0	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	49.1	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	66.9	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	48.4	39 - 69	13C-OCDF	63.4	17 - 157	
OCDF	100	102	63 - 170	CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

Analyst: RAS

Approved By: William J. Luksemburg 05-Oct-2006 11:25

Sample ID: IPI1292-01					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	Test America-Irvine		Matrix:	Aqueous	Lab Sample:	28115-001	Date Received:	18-Sep-06
Project:	IPI1292		Sample Size:	1.04 L	QC Batch No.:	8402	Date Extracted:	22-Sep-06
Date Collected:	14-Sep-06				Date Analyzed DB-5:	29-Sep-06	Date Analyzed DB-225:	NA
Time Collected:	0850							
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000127			IS 13C-2,3,7,8-TCDD	66.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000256			13C-1,2,3,7,8-PeCDD	59.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000178			13C-1,2,3,4,7,8-HxCDD	61.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000191			13C-1,2,3,6,7,8-HxCDD	52.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000179			13C-1,2,3,4,6,7,8-HpCDD	55.8	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.00000410			J	13C-OCDD	56.4	17 - 157	
OCDD	0.0000298			J,B	13C-2,3,7,8-TCDF	65.7	24 - 169	
2,3,7,8-TCDF	ND	0.00000138			13C-1,2,3,7,8-PeCDF	59.9	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000209			13C-2,3,4,7,8-PeCDF	61.0	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000185			13C-1,2,3,4,7,8-HxCDF	69.0	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000570			13C-1,2,3,6,7,8-HxCDF	59.9	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000588			13C-2,3,4,6,7,8-HxCDF	58.7	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000662			13C-1,2,3,7,8,9-HxCDF	60.0	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.000000916			13C-1,2,3,4,6,7,8-HpCDF	55.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000193			13C-1,2,3,4,7,8,9-HpCDF	59.6	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.000000870			13C-OCDF	57.2	17 - 157	
OCDF	0.00000327			J	CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	
Totals					Footnotes			
Total TCDD	ND	0.00000127			a. Sample specific estimated detection limit.			
Total PeCDD	ND	0.00000256			b. Estimated maximum possible concentration.			
Total HxCDD	ND	0.00000183			c. Method detection limit.			
Total HpCDD	0.00000843				d. Lower control limit - upper control limit.			
Total TCDF	ND	0.00000138						
Total PeCDF	ND	0.00000197						
Total HxCDF	ND	0.000000670						
Total HpCDF	ND	0.00000191						

Analyst: RAS

Approved By: William J. Luksemburg 05-Oct-2006 11:25

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical interference
J	The amount detected is below the Lower Calibration Limit of the instrument.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated Detection Limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that corresponds 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
State of Alaska, DEC	CA413-02
State of Arizona	AZ0639
State of Arkansas, DEQ	05-013-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	
State of Connecticut	PH-0182
State of Florida, DEP	E87777
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA050001
State of Louisiana, DEQ	01977
State of Maine	CA0413
State of Michigan	81178087
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	
State of Nevada	CA413
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-002
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	02996
State of Texas	TX247-2005A
U.S. Army Corps of Engineers	
State of Utah	9169330940
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPI1292

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Alta Analytical
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 933-1640
Fax: (916) 673-0106

28115
14.7°C

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPI1292-01 Water 1613-Dioxin-HR-Alta	Sampled: 09/14/06 08:50 09/21/06 08:50	J flags, 17 cngnrs, no TEQ, ug/L, sub=Alta, Boeing EDD

Containers Supplied:

- 1 L Amber (IPI1292-01M)
- 1 L Amber (IPI1292-01N)

SAMPLE INTEGRITY:

All containers intact: Yes No Sample labels/COC agree: Yes No Samples Received On Ice:: Yes No
Custody Seals Present: Yes No Samples Preserved Properly: Yes No Samples Received at (temp): _____

Released By: [Signature] Date: 9/15/06 Time: _____ Received By: Bethma J. Benedict Date: 9/18/06 Time: 0848

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 28115

TAT Standard

Samples Arrival:	Date/Time <u>9/18/06 0848</u>	Initials: <u>BBB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>NA</u>
Logged In:	Date/Time <u>9/18/06 1247</u>	Initials: <u>BBB</u>	Location: <u>WR-2</u> Shelf/Rack: <u>C-4</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> Cal
		<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	<u>14.7</u>	Time: <u>0910</u>	Thermometer ID: DT-20

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # <u>7911 2401 9160</u>	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?		✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓
Na ₂ S ₂ O ₃ Preservation Documented?	COC	Sample Container	<u>None</u>	
Shipping Container	Alta	<u>Client</u>	Retain	<u>Return</u>
				Dispose

Comments:

Chain of Custody Anomaly/Sample Acceptance Form

Client: Test America-Irvine
Contact: Michele Chamberlin
Fax Number: 949-2611228

Project Number 28115
Date Received: Sep 18 2006
Documented by/date: BSB 9/18/06

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. (Fax # 916-673-0106)

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

- Complete Chain-of-Custody
- Test Method Requested
- Analyte List Requested
- Preservative
- Sample Identification
- Sample Collection Date / Time
- Collector's Name
- Sample Type
- Sample Location

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

Temperature outside $\pm 2^{\circ}\text{C}$ range Samples Affected: All

Temperature outside 14.7 $^{\circ}\text{C}$ Ice present? Yes No

Sample ID Discrepancy Samples Affected _____

Sample holding time missed Samples Affected _____

Custody seals broken Samples Affected _____

Insufficient Sample Size Samples Affected _____

Sample Container(s) Broken Samples Affected _____

Incorrect Container Type Samples Affected _____

Other _____

Client Authorization

Proceed With Analysis: YES NO Signature and Date MM 9/19/06

Client Comments/Instructions: per M. Chamberlin by email