

**ATTACHMENT 7**

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

**PT-INF2 (BAG FILTER INFLUENT), LEAF COMPOST, PEAT  
MOSS AND BARLEY STRAW**

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**09/14/06**

**PT-INF2 (BAG FILTER INFLUENT), LEAF COMPOST,  
PEAT MOSS AND BARLEY STRAW**

## 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 18:03

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**  
IPI1293-01

**CLIENT ID**  
LC-EFF

**MATRIX**  
Water

Reviewed By:



**TestAmerica - Irvine, CA**  
Amy Windham 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: IPI1293

Sampled: 09/14/06  
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## METALS

| Analyte                                       | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1293-01 (LC-EFF - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                         |           |         |           |                 |               |                 |                |               |                 |
| Iron  | EPA 200.7 | 6118075 | 0.015     | 0.040           | <b>0.30</b>   | 1               | 09/18/06       | 09/20/06      |                 |
| <b>Sample ID: IPI1293-01 (LC-EFF - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                         |           |         |           |                 |               |                 |                |               |                 |
| Antimony                                      | EPA 200.8 | 6118070 | 0.050     | 2.0             | <b>0.19</b>   | 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             | <b>0.55</b>   | 1               | 09/19/06       | 09/20/06      | B, J            |
| Lead  | EPA 200.8 | 6118070 | 0.040     | 1.0             | <b>0.17</b>   | 1               | 09/18/06       | 09/18/06      | J               |
| Manganese                                     | EPA 200.7 | 6118075 | 7.0       | 20              | <b>210</b>    | 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             | <b>0.44</b>   | 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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 R-2A Pond Pilot Test  
 Report Number: IPI1293

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## DISSOLVED METALS

| Analyte   | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1293-01 (LC-EFF - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                 |                |         |           |                 |               |                 |                |               |                 |
| Iron  | EPA 200.7-Diss | 6115121 | 0.015     | 0.040           | <b>0.17</b>   | 1               | 09/15/06       | 09/23/06      |                 |
| <b>Sample ID: IPI1293-01 (LC-EFF - Water)</b>         |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                 |                |         |           |                 |               |                 |                |               |                 |
| Antimony  | EPA 200.8-Diss | 6118073 | 0.050     | 2.0             | <b>0.27</b>   | 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             | <b>0.76</b>   | 1               | 09/18/06       | 09/18/06      | B, J            |
| Lead  | EPA 200.8-Diss | 6118073 | 0.040     | 1.0             | <b>0.073</b>  | 1               | 09/18/06       | 09/18/06      | J               |
| Manganese   | EPA 200.7-Diss | 6115121 | 7.0       | 20              | <b>140</b>    | 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              | <b>2.8</b>    | 1               | 09/15/06       | 09/23/06      | J               |
| Selenium  | EPA 200.8-Diss | 6118073 | 0.30      | 2.0             | <b>0.44</b>   | 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 |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1293-01 (LC-EFF - Water) - cont.</b> |              |         |           |                 |               |                 |                |               |                 |
| Reporting Units: g/cc                                 |              |         |           |                 |               |                 |                |               |                 |
| Density   | Displacement | 6I22108 | N/A       | NA              | 1.0           | 1               | 09/22/06       | 09/22/06      |                 |
| <b>Sample ID: IPI1293-01 (LC-EFF - Water)</b>         |              |         |           |                 |               |                 |                |               |                 |
| 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            | 0.56          | 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            | ND            | 1               | 09/16/06       | 09/16/06      |                 |
| Hardness (as CaCO3)                                   | SM2340B      | 6I18075 | 1.0       | 1.0             | 190           | 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            | ND            | 1               | 09/14/06       | 09/15/06      |                 |
| Nitrate/Nitrite-N                                     | EPA 300.0    | 6I14139 | 0.080     | 0.15            | ND            | 1               | 09/14/06       | 09/15/06      |                 |
| 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             | 81            | 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             | 11            | 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 |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1293-01 (LC-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: NTU                                  |           |         |           |                 |               |                 |                |               |                 |
| Turbidity   | EPA 180.1 | 6115115 | 0.040     | 1.0             | 1.6           | 1               | 09/15/06       | 09/15/06      |                 |

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| Analyte   | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1293-01 (LC-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: pH Units                             |           |         |           |                 |               |                 |                |               |                 |
| pH  | EPA 150.1 | 6I15082 | N/A       | NA              | 7.54          | 1               | 09/15/06       | 09/15/06      |                 |

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| Analyte   | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1293-01 (LC-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: umhos/cm                             |           |         |           |                 |               |                 |                |               |                 |
| Specific Conductance                                  | EPA 120.1 | 6I15074 | N/A       | 1.0             | <b>620</b>    | 1               | 09/15/06       | 09/15/06      |                 |

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## SHORT HOLD TIME DETAIL REPORT

| Sample ID: LC-EFF (IPI1293-01) - Water | Hold Time<br>(in days) | Date/Time<br>Sampled | Date/Time<br>Received | Date/Time<br>Extracted | Date/Time<br>Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1                              | 1                      | 09/14/2006 08:55     | 09/14/2006 18:15      | 09/15/2006 09:25       | 09/15/2006 10:45      |
| EPA 180.1                              | 2                      | 09/14/2006 08:55     | 09/14/2006 18:15      | 09/15/2006 14:00       | 09/15/2006 15:35      |
| EPA 300.0                              | 2                      | 09/14/2006 08:55     | 09/14/2006 18:15      | 09/14/2006 21:00       | 09/15/2006 00:43      |
| Filtration                             | 1                      | 09/14/2006 08:55     | 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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I15062 Extracted: 09/15/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15062-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15062-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.40   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)</b>      |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.20   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 102  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)</b> |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.24   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 103  | 70-130      | 1   | 20        |                 |
| <b>Batch: 6I18070 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18070-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| 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  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18070-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| 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 Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18070 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18070-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1353-01</b> |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18070-MS2)</b>      |        |                 |       |       |             | <b>Source: IPI1353-02</b> |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18070-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1353-01</b> |      |             |     |           |                 |
| 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        |                 |
| <b>Batch: 6I18075 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I18075-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1293

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 | Limit  | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I18075 Extracted: 09/18/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I18075-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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 R-2A Pond Pilot Test  
 Report Number: IPI1293

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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I19133 Extracted: 09/19/06</b>                   |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I19133-BLK1)</b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| Copper  | 1.73   | 2.0             | 0.25 | ug/l  |             |                           |      |             |     |           | J               |
| <b>LCS Analyzed: 09/20/2006 (6I19133-BS1)</b>               |        |                 |      |       |             |                           |      |             |     |           |                 |
| Copper  | 80.8   | 2.0             | 0.25 | ug/l  | 80.0        |                           | 101  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I19133-MS1)</b>      |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1286-01</b> |      |             |     |           |                 |
| Copper  | 77.1   | 2.0             | 0.25 | ug/l  | 80.0        | 0.82                      | 95   | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I19133-MSD1)</b> |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1286-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I15121 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/23/2006 (6I15121-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/23/2006 (6I15121-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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 R-2A Pond Pilot Test  
 Report Number: IPI1293

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## METHOD BLANK/QC DATA

### DISSOLVED METALS

| Analyte   | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                                 |        |                 |       |       |             |               |           |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18073-BLK1)</b>                          |        |                 |       |       |             |               |           |             |     |           |                 |
| 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  |             |               |           |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18073-BS1)</b>                             |        |                 |       |       |             |               |           |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1) Source: IPI1226-01</b> |        |                 |       |       |             |               |           |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |             |     |           |                 |
| 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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1226-01</b> |      |             |     |           |                 |
| 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        |                 |
| <b>Batch: 6I18082 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18082-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18082-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.42   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| Mercury   | 8.28   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 104  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I14139 Extracted: 09/14/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/14/2006 (6I14139-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/14/2006 (6I14139-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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        |                 |
| <b>Batch: 6I15041 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15041-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | ND     | 0.50            | 0.45  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15041-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 10.1   | 0.50            | 0.45  | mg/l  | 10.0        |               | 101       | 90-110 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 183    | 2.5             | 2.2   | mg/l  | 10.0        | 180           | 30        | 80-120 |     |           | M-HA            |

TestAmerica - Irvine, CA  
 Amy Windham For Michele Chamberlin  
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MWH-Pasadena/Boeing  
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1293

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 |
|---|--------|-----------------|-----|----------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I15041 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)</b> |        |                 |     |          |             | <b>Source: IPI1302-02</b> |      |             |     |           |                 |
| Sulfate   | 184    | 2.5             | 2.2 | mg/l     | 10.0        | 180                       | 40   | 80-120      | 1   | 20        | M-HA            |
| <b>Batch: 6I15073 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15073-BLK1)</b>            |        |                 |     |          |             |                           |      |             |     |           |                 |
| Total Dissolved Solids                                      | ND     | 10              | 10  | mg/l     |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15073-BS1)</b>               |        |                 |     |          |             |                           |      |             |     |           |                 |
| Total Dissolved Solids                                      | 1000   | 10              | 10  | mg/l     | 1000        |                           | 100  | 90-110      |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15073-DUP1)</b>        |        |                 |     |          |             | <b>Source: IPI1076-01</b> |      |             |     |           |                 |
| Total Dissolved Solids                                      | 1480   | 10              | 10  | mg/l     |             | 1500                      |      |             | 1   | 10        |                 |
| <b>Batch: 6I15074 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15074-DUP1)</b>        |        |                 |     |          |             | <b>Source: IPI1120-01</b> |      |             |     |           |                 |
| Specific Conductance  | 1820   | 1.0             | N/A | umhos/cm |             | 1800                      |      |             | 1   | 5         |                 |
| <b>Batch: 6I15082 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)</b>        |        |                 |     |          |             | <b>Source: IPI1268-01</b> |      |             |     |           |                 |
| pH  | 6.87   | NA              | N/A | pH Units |             | 6.85                      |      |             | 0   | 5         |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)</b>        |        |                 |     |          |             | <b>Source: IPI1293-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b><u>Batch: 6I15115 Extracted: 09/15/06</u></b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15115-BLK1)</b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| Turbidity  | ND     | 1.0             | 0.040 | NTU   |             |               |           |        |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| Turbidity  | 3.33   | 1.0             | 0.040 | NTU   |             | 3.4           |           |        | 2   | 20        |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| Turbidity  | 1.63   | 1.0             | 0.040 | NTU   |             | 1.6           |           |        | 2   | 20        |                 |
| <b><u>Batch: 6I16001 Extracted: 09/16/06</u></b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16001-BLK1)</b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| Oil & Grease   | ND     | 5.0             | 0.94  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16001-BS1)</b>        |        |                 |       |       |             |               |           |        |     |           |                 |
| Oil & Grease   | 17.9   | 5.0             | 0.94  | mg/l  | 20.0        |               | 90        | 65-120 |     |           | M-NRI           |
| <b>LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)</b>   |        |                 |       |       |             |               |           |        |     |           |                 |
| Oil & Grease   | 18.1   | 5.0             | 0.94  | mg/l  | 20.0        |               | 90        | 65-120 | 1   | 20        |                 |
| <b><u>Batch: 6I16057 Extracted: 09/16/06</u></b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16057-BLK1)</b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                | ND     | 0.50            | 0.30  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16057-BS1)</b>        |        |                 |       |       |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                | 10.9   | 0.50            | 0.30  | mg/l  | 10.0        |               | 109       | 80-115 |     |           |                 |

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 Report Number: IPI1293

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

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 Report Number: IPI1293

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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 |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I20101 Extracted: 09/20/06</b>                                      |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)</b>                             |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 19.9   | 0.50            | 0.43 | mg/l  | 20.0        |               | 100  | 85-120      | 2   | 15        |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1) Source: IPI1210-01</b>      |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 10.6   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84          | 98   | 85-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1) Source: IPI1210-01</b> |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 11.2   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84          | 104  | 85-120      | 6   | 15        |                 |
| <b>Batch: 6I20128 Extracted: 09/20/06</b>                                      |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20128-BLK2)</b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | ND     | 10              | 10   | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20128-BS2)</b>                                  |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | 1040   | 10              | 10   | mg/l  | 1000        |               | 104  | 85-115      |     |           |                 |
| <b>Duplicate Analyzed: 09/20/2006 (6I20128-DUP2) Source: IPI1285-02</b>        |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | 2270   | 10              | 10   | mg/l  |             | 2100          |      |             | 8   | 10        |                 |
| <b>Batch: 6I20145 Extracted: 09/20/06</b>                                      |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20145-BLK1)</b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Organic Carbon   | ND     | 1.0             | 0.25 | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20145-BS1)</b>                                  |        |                 |      |       |             |               |      |             |     |           |                 |
| 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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I20145 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20145-MS1)</b>      |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.34   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 97   | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20145-MSD1)</b> |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.52   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 100  | 80-120      | 3   | 20        |                 |
| <b><u>Batch: 6I22108 Extracted: 09/22/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)</b>        |        |                 |      |       |             | <b>Source: IPI0964-02</b> |      |             |     |           |                 |
| 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](http://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: IPI1293-01

### TestAmerica - Irvine, CA

Amy Windham For Michele Chamberlin  
 Project Manager

# Del Mar Analytical

Version 04/28/06

## CHAIN OF CUSTODY FORM

*DLR*

| Client Name/Address:  |               | Project:   |            | ANALYSIS REQUIRED  |   |                      |                          |   |  |                              |                                |  |                              | Field readings:                |                        |                          |                              |   |  |
|---|---------------|--|------------|--|---|----------------------|--------------------------|---|--|------------------------------|--------------------------------|--|------------------------------|--------------------------------|------------------------|--------------------------|------------------------------|---|--|
| MWH-Pasadena<br>300 North Lake Avenue, Suite 1200<br>Pasadena, CA 91101 |               | Boeing-SSFL BMP/NPDES<br>R-2A Pond Filtration Pilot Test |            | Total Recoverable Metals<br>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 <sub>4</sub> , NO <sub>3</sub> +NO <sub>2</sub> -N, Nitrate-N, Nitrite-N (NO <sub>3</sub> + NO <sub>2</sub> -N) | Turbidity, TSS, Conductivity | Ammonia-N (NH <sub>3</sub> -N) | Total Dissolved Metals<br>As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn                               | TCDD (and all congeners)     | Comments                       |                        |                          |                              |   |  |
| Sample Description  | Sample Matrix | Container Type   | # of Cont. | Preservative   | Bottle #  | Sampling Date/Time   | Total Recoverable Metals | Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon   | Oil & Grease (EPA 413.1)     | Total Kjeldahl Nitrogen        | SO <sub>4</sub> , NO <sub>3</sub> +NO <sub>2</sub> -N, Nitrate-N, Nitrite-N (NO <sub>3</sub> + NO <sub>2</sub> -N) | Turbidity, TSS, Conductivity | Ammonia-N (NH <sub>3</sub> -N) | Total Dissolved Metals | TCDD (and all congeners) | Field readings               |   |  |
| LC-EFF  | W             | Poly-1L  | 1          | HNO3   | 1   | 9/14/06 0855         | X                        | X   |  |                              |                                |  |                              |                                |                        |                          | Temp = 69<br>pH = 6.8<br>7.2 |   |  |
| LC-EFF  | W             | Poly-1L  | 1          | None   | 2   |                      |                          |   |  |                              |                                |  |                              |                                |                        |                          |                              |   |  |
| LC-EFF  | W             | VOAs   | 2          | HCl  | 3A, 3B  |                      |                          |   |  |                              |                                |  |                              |                                |                        |                          |                              |   |  |
| LC-EFF  | W             | 1L Amber   | 2          | HCl  | 4A, 4B  |                      |                          |   |  |                              |                                |  |                              |                                |                        |                          |                              |   |  |
| LC-EFF  | W             | Poly-500 ml  | 1          | H2SO4  | 5   |                      |                          |   | X  |                              |                                |  |                              |                                |                        |                          |                              |   |  |
| LC-EFF  | W             | Poly-500 ml  | 1          | None   | 6   |                      |                          |   |  |                              | X                              |  |                              |                                |                        |                          |                              |   |  |
| LC-EFF  | W             | Poly-500 ml  | 2          | None   | 7A, 7B  |                      |                          |   |  |                              |                                |  | X                            |                                |                        |                          |                              |   |  |
| LC-EFF  | W             | Poly-500 ml  | 1          | H2SO4  | 8   |                      |                          |   |  |                              |                                |  |                              | X                              |                        |                          |                              |   |  |
| LC-EFF  | W             | Poly-1L  | 1          | None   | 9   |                      |                          |   |  |                              |                                |  |                              |                                | X                      |                          |                              |   |  |
| LC-EFF  | W             | 1L Amber   | 2          | None   | 10A, 10B  |                      |                          |   |  |                              |                                |  |                              |                                |                        | X                        |                              |   |  |
| Relinquished By <i>[Signature]</i> Date/Time: 9-14-06 1500              |               |  |            | Received By <i>[Signature]</i> Date/Time: 9-14-06 1500   |   |                      |                          |   |  |                              |                                |  |                              |                                |                        |                          |                              | Turn around Time: (check)<br>24 Hours _____ 5 Days _____<br>48 Hours _____ 10 Days _____<br>72 Hours _____ Normal _____ |  |
| Relinquished By <i>[Signature]</i> Date/Time: 9-14-06 1815              |               |  |            | Received By <i>[Signature]</i> Date/Time: 9-14-06 1815   |   |                      |                          |   |  |                              |                                |  |                              |                                |                        |                          |                              | Perchlorate Only 72 Hours _____<br>Metals Only 72 Hours _____   |  |
| Relinquished By _____ Date/Time: _____                                  |               |  |            | Received By <i>[Signature]</i> Date/Time: 9/14/06 1800   |   |                      |                          |   |  |                              |                                |  |                              |                                |                        |                          |                              | Sample Integrity: (Check) On Ice: <i>[Signature]</i><br>Intact _____  |  |

*DLR*

## 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 17:59

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**  
IPI1294-01

**CLIENT ID**  
PM-P-EFF

**MATRIX**  
Water

Reviewed By:



**TestAmerica - Irvine, CA**  
Amy Windham 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: IPI1294

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 |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                           |           |         |           |                 |               |                 |                |               |                 |
| Iron  | EPA 200.7 | 6118075 | 0.015     | 0.040           | <b>0.095</b>  | 1               | 09/18/06       | 09/20/06      |                 |
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                           |           |         |           |                 |               |                 |                |               |                 |
| Antimony  | EPA 200.8 | 6118071 | 0.050     | 2.0             | <b>0.58</b>   | 1               | 09/18/06       | 09/19/06      | J               |
| Arsenic   | EPA 200.7 | 6118075 | 4.4       | 5.0             | <b>4.7</b>    | 1               | 09/18/06       | 09/20/06      | J               |
| Beryllium                                       | EPA 200.7 | 6118075 | 0.90      | 2.0             | ND            | 1               | 09/18/06       | 09/20/06      |                 |
| Cadmium   | EPA 200.8 | 6118071 | 0.025     | 1.0             | ND            | 1               | 09/18/06       | 09/19/06      |                 |
| Chromium  | EPA 200.7 | 6118075 | 2.0       | 5.0             | ND            | 1               | 09/18/06       | 09/20/06      |                 |
| Copper  | EPA 200.8 | 6118071 | 0.25      | 2.0             | <b>4.2</b>    | 1               | 09/18/06       | 09/19/06      |                 |
| Lead  | EPA 200.8 | 6118071 | 0.040     | 1.0             | <b>0.10</b>   | 1               | 09/18/06       | 09/19/06      | J               |
| Manganese                                       | EPA 200.7 | 6118075 | 7.0       | 20              | <b>50</b>     | 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 | 6118071 | 0.30      | 2.0             | <b>0.46</b>   | 1               | 09/18/06       | 09/19/06      | J               |
| Silver  | EPA 200.8 | 6118071 | 0.025     | 1.0             | ND            | 1               | 09/18/06       | 09/19/06      |                 |
| Thallium  | EPA 200.8 | 6118071 | 0.15      | 1.0             | <b>0.20</b>   | 1               | 09/18/06       | 09/19/06      | J               |
| Zinc  | EPA 200.7 | 6118075 | 15        | 20              | ND            | 1               | 09/18/06       | 09/20/06      |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1294

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

## DISSOLVED METALS

| Analyte   | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                   |                |         |           |                 |               |                 |                |               |                 |
| Iron  | EPA 200.7-Diss | 6115121 | 0.015     | 0.040           | ND            | 1               | 09/15/06       | 09/23/06      |                 |
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water)</b>         |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                   |                |         |           |                 |               |                 |                |               |                 |
| Antimony  | EPA 200.8-Diss | 6118073 | 0.050     | 2.0             | <b>0.46</b>   | 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             | <b>1.8</b>    | 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              | <b>10</b>     | 1               | 09/15/06       | 09/23/06      | J               |
| 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              | <b>2.2</b>    | 1               | 09/15/06       | 09/23/06      | J               |
| Selenium  | EPA 200.8-Diss | 6118073 | 0.30      | 2.0             | <b>0.42</b>   | 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1294

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

## INORGANICS

| Analyte   | Method       | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water) - cont.</b> |              |         |           |                 |               |                 |                |               |                 |
| Reporting Units: g/cc                                   |              |         |           |                 |               |                 |                |               |                 |
| Density   | Displacement | 6I22108 | N/A       | NA              | 1.0           | 1               | 09/22/06       | 09/22/06      |                 |
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water)</b>         |              |         |           |                 |               |                 |                |               |                 |
| 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            | 0.16          | 1               | 09/14/06       | 09/15/06      |                 |
| Nitrite-N   | EPA 300.0    | 6I14139 | 0.080     | 0.15            | 0.12          | 1               | 09/14/06       | 09/15/06      | J               |
| Nitrate/Nitrite-N                                       | EPA 300.0    | 6I14139 | 0.080     | 0.15            | 0.28          | 1               | 09/14/06       | 09/15/06      |                 |
| 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             | 83            | 5               | 09/15/06       | 09/15/06      |                 |
| Total Dissolved Solids                                  | SM2540C      | 6I18061 | 10        | 10              | 340           | 1               | 09/18/06       | 09/18/06      |                 |
| 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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 R-2A Pond Pilot Test  
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Sampled: 09/14/06  
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## INORGANICS

| Analyte   | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: NTU</b>                             |           |         |           |                 |               |                 |                |               |                 |
| <b>Turbidity</b>  | EPA 180.1 | 6I15115 | 0.040     | 1.0             | <b>1.5</b>    | 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 |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: pH Units                               |           |         |           |                 |               |                 |                |               |                 |
| pH  | EPA 150.1 | 6I15082 | N/A       | NA              | 7.40          | 1               | 09/15/06       | 09/15/06      |                 |

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R-2A Pond Pilot Test  
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## INORGANICS

| Analyte   | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1294-01 (PM-P-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: umhos/cm                               |           |         |           |                 |               |                 |                |               |                 |
| Specific Conductance                                    | EPA 120.1 | 6118059 | N/A       | 1.0             | <b>600</b>    | 1               | 09/18/06       | 09/18/06      |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1294

Sampled: 09/14/06  
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## SHORT HOLD TIME DETAIL REPORT

| Sample ID: PM-P-EFF (IPI1294-01) - Water | Hold Time<br>(in days) | Date/Time<br>Sampled | Date/Time<br>Received | Date/Time<br>Extracted | Date/Time<br>Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1                                | 1                      | 09/14/2006 08:35     | 09/14/2006 18:15      | 09/15/2006 09:25       | 09/15/2006 10:45      |
| EPA 180.1                                | 2                      | 09/14/2006 08:35     | 09/14/2006 18:15      | 09/15/2006 14:00       | 09/15/2006 15:35      |
| EPA 300.0                                | 2                      | 09/14/2006 08:35     | 09/14/2006 18:15      | 09/14/2006 21:00       | 09/15/2006 00:59      |
| Filtration                               | 1                      | 09/14/2006 08:35     | 09/14/2006 18:15      | 09/15/2006 16:50       | 09/15/2006 16:50      |

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 R-2A Pond Pilot Test  
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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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I15062 Extracted: 09/15/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15062-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15062-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.40   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)</b>      |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.20   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 102  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)</b> |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.24   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 103  | 70-130      | 1   | 20        |                 |
| <b>Batch: 6I18071 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/19/2006 (6I18071-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Antimony  | ND     | 2.0             | 0.050 | ug/l  |             |                           |      |             |     |           |                 |
| Cadmium   | ND     | 1.0             | 0.025 | ug/l  |             |                           |      |             |     |           |                 |
| Copper  | 0.400  | 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  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/19/2006 (6I18071-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Antimony  | 80.1   | 2.0             | 0.050 | ug/l  | 80.0        |                           | 100  | 85-115      |     |           |                 |
| Cadmium   | 81.5   | 1.0             | 0.025 | ug/l  | 80.0        |                           | 102  | 85-115      |     |           |                 |
| Copper  | 80.5   | 2.0             | 0.25  | ug/l  | 80.0        |                           | 101  | 85-115      |     |           |                 |
| Lead  | 82.3   | 1.0             | 0.040 | ug/l  | 80.0        |                           | 103  | 85-115      |     |           |                 |
| Selenium  | 80.9   | 2.0             | 0.30  | ug/l  | 80.0        |                           | 101  | 85-115      |     |           |                 |
| Silver  | 80.3   | 1.0             | 0.025 | ug/l  | 80.0        |                           | 100  | 85-115      |     |           |                 |
| Thallium  | 84.3   | 1.0             | 0.15  | ug/l  | 80.0        |                           | 105  | 85-115      |     |           |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1294

Sampled: 09/14/06  
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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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18071 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/19/2006 (6I18071-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1509-01</b> |      |             |     |           |                 |
| Antimony  | 80.6   | 2.0             | 0.050 | ug/l  | 80.0        | 0.15                      | 101  | 70-130      |     |           |                 |
| Cadmium   | 80.6   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 101  | 70-130      |     |           |                 |
| Copper  | 81.9   | 2.0             | 0.25  | ug/l  | 80.0        | 3.3                       | 98   | 70-130      |     |           |                 |
| Lead  | 77.8   | 1.0             | 0.040 | ug/l  | 80.0        | 0.088                     | 97   | 70-130      |     |           |                 |
| Selenium  | 77.2   | 2.0             | 0.30  | ug/l  | 80.0        | ND                        | 96   | 70-130      |     |           |                 |
| Silver  | 78.0   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 98   | 70-130      |     |           |                 |
| Thallium  | 79.0   | 1.0             | 0.15  | ug/l  | 80.0        | 0.19                      | 99   | 70-130      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/19/2006 (6I18071-MS2)</b>      |        |                 |       |       |             | <b>Source: IPI1509-02</b> |      |             |     |           |                 |
| Antimony  | 79.9   | 2.0             | 0.050 | ug/l  | 80.0        | 0.16                      | 100  | 70-130      |     |           |                 |
| Cadmium   | 79.5   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 99   | 70-130      |     |           |                 |
| Copper  | 86.5   | 2.0             | 0.25  | ug/l  | 80.0        | 0.90                      | 107  | 70-130      |     |           |                 |
| Lead  | 77.5   | 1.0             | 0.040 | ug/l  | 80.0        | 0.060                     | 97   | 70-130      |     |           |                 |
| Selenium  | 76.3   | 2.0             | 0.30  | ug/l  | 80.0        | ND                        | 95   | 70-130      |     |           |                 |
| Silver  | 76.9   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 96   | 70-130      |     |           |                 |
| Thallium  | 74.6   | 1.0             | 0.15  | ug/l  | 80.0        | 0.20                      | 93   | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/19/2006 (6I18071-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1509-01</b> |      |             |     |           |                 |
| Antimony  | 80.3   | 2.0             | 0.050 | ug/l  | 80.0        | 0.15                      | 100  | 70-130      | 0   | 20        |                 |
| Cadmium   | 80.9   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 101  | 70-130      | 0   | 20        |                 |
| Copper  | 78.1   | 2.0             | 0.25  | ug/l  | 80.0        | 3.3                       | 94   | 70-130      | 5   | 20        |                 |
| Lead  | 77.9   | 1.0             | 0.040 | ug/l  | 80.0        | 0.088                     | 97   | 70-130      | 0   | 20        |                 |
| Selenium  | 76.4   | 2.0             | 0.30  | ug/l  | 80.0        | ND                        | 96   | 70-130      | 1   | 20        |                 |
| Silver  | 77.7   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 97   | 70-130      | 0   | 20        |                 |
| Thallium  | 82.4   | 1.0             | 0.15  | ug/l  | 80.0        | 0.19                      | 103  | 70-130      | 4   | 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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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1294

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 | Limit  | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I18075 Extracted: 09/18/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I18075-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1294

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 | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I15121 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/23/2006 (6I15121-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/23/2006 (6I15121-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1294

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 |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                                 |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18073-BLK1)</b>                          |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18073-BS1)</b>                             |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1) Source: IPI1226-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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 Report Number: IPI1294

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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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1226-01</b> |      |             |     |           |                 |
| 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        |                 |
| <b>Batch: 6I18082 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18082-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18082-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.42   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| Mercury   | 8.28   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 104  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I14139 Extracted: 09/14/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/14/2006 (6I14139-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/14/2006 (6I14139-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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        |                 |
| <b>Batch: 6I15041 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15041-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | ND     | 0.50            | 0.45  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15041-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 10.1   | 0.50            | 0.45  | mg/l  | 10.0        |               | 101       | 90-110 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 183    | 2.5             | 2.2   | mg/l  | 10.0        | 180           | 30        | 80-120 |     |           | M-HA            |

TestAmerica - Irvine, CA  
 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: IPI1294

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 |
|---|--------|-----------------|-------|----------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I15041 Extracted: 09/15/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)</b> |        |                 |       |          |             | <b>Source: IPI1302-02</b> |      |             |     |           |                 |
| Sulfate   | 184    | 2.5             | 2.2   | mg/l     | 10.0        | 180                       | 40   | 80-120      | 1   | 20        | M-HA            |
| <b><u>Batch: 6I15082 Extracted: 09/15/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)</b>        |        |                 |       |          |             | <b>Source: IPI1268-01</b> |      |             |     |           |                 |
| pH  | 6.87   | NA              | N/A   | pH Units |             | 6.85                      |      |             | 0   | 5         |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)</b>        |        |                 |       |          |             | <b>Source: IPI1293-01</b> |      |             |     |           |                 |
| pH  | 7.55   | NA              | N/A   | pH Units |             | 7.54                      |      |             | 0   | 5         |                 |
| <b><u>Batch: 6I15115 Extracted: 09/15/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15115-BLK1)</b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| Turbidity   | ND     | 1.0             | 0.040 | NTU      |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)</b>        |        |                 |       |          |             | <b>Source: IPI1266-01</b> |      |             |     |           |                 |
| Turbidity   | 3.33   | 1.0             | 0.040 | NTU      |             | 3.4                       |      |             | 2   | 20        |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)</b>        |        |                 |       |          |             | <b>Source: IPI1293-01</b> |      |             |     |           |                 |
| Turbidity   | 1.63   | 1.0             | 0.040 | NTU      |             | 1.6                       |      |             | 2   | 20        |                 |
| <b><u>Batch: 6I16001 Extracted: 09/16/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16001-BLK1)</b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| Oil & Grease  | ND     | 5.0             | 0.94  | mg/l     |             |                           |      |             |     |           |                 |

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 Report Number: IPI1294

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 |
|---|--------|-----------------|------|----------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I16001 Extracted: 09/16/06</u></b>            |        |                 |      |          |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16001-BS1)</b>               |        |                 |      |          |             |               |      |             |     |           |                 |
| Oil & Grease  | 17.9   | 5.0             | 0.94 | mg/l     | 20.0        |               | 90   | 65-120      |     |           | M-NRI           |
| <b>LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)</b>          |        |                 |      |          |             |               |      |             |     |           |                 |
| Oil & Grease  | 18.1   | 5.0             | 0.94 | mg/l     | 20.0        |               | 90   | 65-120      | 1   | 20        |                 |
| <b><u>Batch: 6I16057 Extracted: 09/16/06</u></b>            |        |                 |      |          |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16057-BLK1)</b>            |        |                 |      |          |             |               |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | ND     | 0.50            | 0.30 | mg/l     |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16057-BS1)</b>               |        |                 |      |          |             |               |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | 10.9   | 0.50            | 0.30 | mg/l     | 10.0        |               | 109  | 80-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/16/2006 (6I16057-MS1)</b>      |        |                 |      |          |             |               |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | 11.2   | 0.50            | 0.30 | mg/l     | 10.0        | 0.84          | 104  | 70-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/16/2006 (6I16057-MSD1)</b> |        |                 |      |          |             |               |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | 11.2   | 0.50            | 0.30 | mg/l     | 10.0        | 0.84          | 104  | 70-120      | 0   | 15        |                 |
| <b><u>Batch: 6I18059 Extracted: 09/18/06</u></b>            |        |                 |      |          |             |               |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/18/2006 (6I18059-DUP1)</b>        |        |                 |      |          |             |               |      |             |     |           |                 |
| Specific Conductance  | 2030   | 1.0             | N/A  | umhos/cm |             | 2000          |      |             | 1   | 5         |                 |
| <b><u>Batch: 6I18061 Extracted: 09/18/06</u></b>            |        |                 |      |          |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18061-BLK1)</b>            |        |                 |      |          |             |               |      |             |     |           |                 |
| Total Dissolved Solids                                      | ND     | 10              | 10   | mg/l     |             |               |      |             |     |           |                 |

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 R-2A Pond Pilot Test  
 Report Number: IPI1294

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 |
|--|--------|-----------------|------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| <b><u>Batch: 6I18061 Extracted: 09/18/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18061-BS1)</b>        |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Dissolved Solids                               | 994    | 10              | 10   | mg/l  | 1000        |                           | 99        | 90-110 |     |           |                 |
| <b>Duplicate Analyzed: 09/18/2006 (6I18061-DUP1)</b> |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Dissolved Solids                               | 343    | 10              | 10   | mg/l  |             | Source: IPI1321-01<br>350 |           |        | 2   | 10        |                 |
| <b><u>Batch: 6I18075 Extracted: 09/18/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I18075-BLK1)</b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| Hardness (as CaCO3)                                  | ND     | 1.0             | 1.0  | mg/l  |             |                           |           |        |     |           |                 |
| <b><u>Batch: 6I20071 Extracted: 09/20/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>Duplicate Analyzed: 09/20/2006 (6I20071-DUP1)</b> |        |                 |      |       |             |                           |           |        |     |           |                 |
| Alkalinity as CaCO3                                  | 348    | 2.0             | 2.0  | mg/l  |             | Source: IPI1125-01<br>350 |           |        | 1   | 20        |                 |
| <b>Reference Analyzed: 09/20/2006 (6I20071-SRM1)</b> |        |                 |      |       |             |                           |           |        |     |           |                 |
| Alkalinity as CaCO3                                  | 224    | 2.0             | 2.0  | mg/l  | 231         |                           | 97        | 90-110 |     |           |                 |
| <b><u>Batch: 6I20101 Extracted: 09/20/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20101-BLK1)</b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Kjeldahl Nitrogen                              | ND     | 0.50            | 0.43 | mg/l  |             |                           |           |        |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20101-BS1)</b>        |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Kjeldahl Nitrogen                              | 19.6   | 0.50            | 0.43 | mg/l  | 20.0        |                           | 98        | 85-120 |     |           |                 |

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 R-2A Pond Pilot Test  
 Report Number: IPI1294

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 |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I20101 Extracted: 09/20/06</b>                                      |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)</b>                             |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 19.9   | 0.50            | 0.43 | mg/l  | 20.0        |               | 100  | 85-120      | 2   | 15        |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1) Source: IPI1210-01</b>      |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 10.6   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84          | 98   | 85-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1) Source: IPI1210-01</b> |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 11.2   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84          | 104  | 85-120      | 6   | 15        |                 |
| <b>Batch: 6I20128 Extracted: 09/20/06</b>                                      |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20128-BLK2)</b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | ND     | 10              | 10   | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20128-BS2)</b>                                  |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | 1040   | 10              | 10   | mg/l  | 1000        |               | 104  | 85-115      |     |           |                 |
| <b>Duplicate Analyzed: 09/20/2006 (6I20128-DUP2) Source: IPI1285-02</b>        |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | 2270   | 10              | 10   | mg/l  |             | 2100          |      |             | 8   | 10        |                 |
| <b>Batch: 6I20145 Extracted: 09/20/06</b>                                      |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20145-BLK1)</b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Organic Carbon   | ND     | 1.0             | 0.25 | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20145-BS1)</b>                                  |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Organic Carbon   | 10.7   | 1.0             | 0.25 | mg/l  | 10.0        |               | 107  | 90-110      |     |           |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1294

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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I20145 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20145-MS1)</b>      |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.34   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 97   | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20145-MSD1)</b> |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.52   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 100  | 80-120      | 3   | 20        |                 |
| <b><u>Batch: 6I22108 Extracted: 09/22/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)</b>        |        |                 |      |       |             | <b>Source: IPI0964-02</b> |      |             |     |           |                 |
| Density   | 0.999  | NA              | N/A  | g/cc  |             | 1.0                       |      |             | 0   | 20        |                 |

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Report Number: IPI1294

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Received: 09/14/06

## 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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 Report Number: IPI1294

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

## 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](http://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: IPI1294-01

### TestAmerica - Irvine, CA

Amy Windham For Michele Chamberlin  
 Project Manager



IP-1294

|  |   |  |   |                                   |   |                                 |          |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
|--|---|--|---|-----------------------------------|---|---------------------------------|----------|---|--|--|--|----------------------------|--|---|--|--|--|---|--|----------------------------------|--|----------------------|--|---|--|--------------------------|--|--|--|----------|--|--|--|--|
| Client Name/Address:<br><b>MWH-Pasadena</b><br>300 North Lake Avenue, Suite 1200<br>Pasadena, CA 91101 |   | Project:<br>Boeing-SSFL BMP/NPDES<br>R-2A Pond Filtration Pilot Test |   | Project Number:<br>(626) 568-6691 |   | Phone Number:<br>(626) 568-6691 |          | Fax Number:<br>(626) 568-6515   |  | Sediments Concentration<br>(ASTM Method) |  | Oil & Grease (EPA 413 1)   |  | Total Kjeldhal Nitrogen                                 |  | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) |  | Turbidity, TSS  |  | Conductivity                     |  | Ammonia-N (NH3-N)    |  | Total Dissolved Metals<br>As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* |  | TCDD (and all congeners) |  | Field readings:<br>Temp = 66<br>pH = 7.0 |  | Comments |  |  |  |  |
| Project Manager: Bronwyn Kelly   |   | Sampler: <i>Bronwyn Kelly</i>  |   | Sample Description                |   | Container Type                  |          | # of Cont.  |  | Sample Matrix                            |  | Preservative               |  | Bottle #  |  | Sampling Date/Time                                 |  | Total Recoverable Metals<br>As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* |  | Alkalinity, Suspended Solids, pH |  | Total Organic Carbon |  | Total Dissolved Metals<br>As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe* |  | Zn, Hardness             |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-1L  | 1 | 1                                 | W | HNO3                            | 1        | 9/14/06 1500  |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-1L  | 1 | 1                                 | W | None                            | 2        |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | VOAs   | 2 | 2                                 | W | HCl                             | 3A, 3B   |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | 1L Amber   | 2 | 2                                 | W | HCl                             | 4A, 4B   |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-500 ml  | 1 | 1                                 | W | H2SO4                           | 5        |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-500 ml  | 1 | 1                                 | W | None                            | 6        |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-500 ml  | 2 | 2                                 | W | None                            | 7A, 7B   |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-500 ml  | 1 | 1                                 | W | H2SO4                           | 8        |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | Poly-1L  | 1 | 1                                 | W | None                            | 9        |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| PM-P-EFF   | W | 1L Amber   | 2 | 2                                 | W | None                            | 10A, 10B |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| Relinquished By: <i>Bronwyn Kelly</i>  |   | Date/Time: 9-14-06 1500  |   | Received By: <i>John</i>          |   | Date/Time: 9-14-06 1500         |          | Turn around Time: (check)<br>24 Hours _____ 5 Days _____<br>48 Hours _____ 10 Days _____<br>72 Hours _____ Normal _____ |  | Perchlorate Only 72 Hours _____          |  | Metals Only 72 Hours _____ |  | Sample Integrity: (Check) Intact _____ On Ice: <u>6</u> |  | DN2100   |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| Relinquished By: <i>John</i>   |   | Date/Time: 9-14-06 1815  |   | Received By: <i>Edward</i>        |   | Date/Time: 9/14/06 1815         |          |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |
| Relinquished By: _____   |   | Date/Time: _____   |   | Received By: _____                |   | Date/Time: _____                |          |   |  |  |  |                            |  |   |  |  |  |   |  |                                  |  |                      |  |   |  |                          |  |  |  |          |  |  |  |  |

## 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 13:43

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**  
IPI1295-01

**CLIENT ID**  
BST-EFF

**MATRIX**  
Water

Reviewed By:



**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: IPI1295

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 |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1295-01 (BST-EFF - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                          |           |         |           |                 |               |                 |                |               |                 |
| Iron   | EPA 200.7 | 6118075 | 0.015     | 0.040           | <b>0.38</b>   | 1               | 09/18/06       | 09/20/06      |                 |
| <b>Sample ID: IPI1295-01 (BST-EFF - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                          |           |         |           |                 |               |                 |                |               |                 |
| Antimony                                       | EPA 200.8 | 6118071 | 0.050     | 2.0             | <b>0.47</b>   | 1               | 09/18/06       | 09/19/06      | 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 | 6118071 | 0.025     | 1.0             | ND            | 1               | 09/18/06       | 09/19/06      |                 |
| Chromium                                       | EPA 200.7 | 6118075 | 2.0       | 5.0             | ND            | 1               | 09/18/06       | 09/20/06      |                 |
| Copper   | EPA 200.8 | 6118071 | 0.25      | 2.0             | <b>2.2</b>    | 1               | 09/18/06       | 09/19/06      |                 |
| Lead   | EPA 200.8 | 6118071 | 0.040     | 1.0             | <b>0.18</b>   | 1               | 09/18/06       | 09/19/06      | J               |
| Manganese                                      | EPA 200.7 | 6118075 | 7.0       | 20              | <b>220</b>    | 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              | <b>2.1</b>    | 1               | 09/18/06       | 09/20/06      | J               |
| Selenium                                       | EPA 200.8 | 6118071 | 0.30      | 2.0             | <b>0.33</b>   | 1               | 09/18/06       | 09/19/06      | J               |
| Silver   | EPA 200.8 | 6118071 | 0.025     | 1.0             | ND            | 1               | 09/18/06       | 09/19/06      |                 |
| Thallium                                       | EPA 200.8 | 6118071 | 0.15      | 1.0             | ND            | 1               | 09/18/06       | 09/19/06      |                 |
| Zinc   | EPA 200.7 | 6118075 | 15        | 20              | ND            | 1               | 09/18/06       | 09/20/06      |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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

## DISSOLVED METALS

| Analyte  | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1295-01 (BST-EFF - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                  |                |         |           |                 |               |                 |                |               |                 |
| <b>Iron</b>  | EPA 200.7-Diss | 6115121 | 0.015     | 0.040           | <b>0.10</b>   | 1               | 09/15/06       | 09/23/06      |                 |
| <b>Sample ID: IPI1295-01 (BST-EFF - Water)</b>         |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                  |                |         |           |                 |               |                 |                |               |                 |
| <b>Antimony</b>  | EPA 200.8-Diss | 6118073 | 0.050     | 2.0             | <b>0.41</b>   | 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      |                 |
| <b>Copper</b>  | EPA 200.8-Diss | 6118073 | 0.25      | 2.0             | <b>1.1</b>    | 1               | 09/18/06       | 09/18/06      | J               |
| <b>Lead</b>  | EPA 200.8-Diss | 6118073 | 0.040     | 1.0             | <b>0.048</b>  | 1               | 09/18/06       | 09/18/06      | J               |
| <b>Manganese</b>                                       | EPA 200.7-Diss | 6115121 | 7.0       | 20              | <b>130</b>    | 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      |                 |
| <b>Nickel</b>  | EPA 200.7-Diss | 6115121 | 2.0       | 10              | <b>2.5</b>    | 1               | 09/15/06       | 09/23/06      | J               |
| <b>Selenium</b>  | EPA 200.8-Diss | 6118073 | 0.30      | 2.0             | <b>0.41</b>   | 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      |                 |
| <b>Zinc</b>  | EPA 200.7-Diss | 6115121 | 15        | 20              | <b>33</b>     | 1               | 09/15/06       | 09/23/06      |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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

## INORGANICS

| Analyte  | Method       | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1295-01 (BST-EFF - Water) - cont.</b> |              |         |           |                 |               |                 |                |               |                 |
| Reporting Units: g/cc                                  |              |         |           |                 |               |                 |                |               |                 |
| Density  | Displacement | 6I22108 | N/A       | NA              | 1.0           | 1               | 09/22/06       | 09/22/06      |                 |
| <b>Sample ID: IPI1295-01 (BST-EFF - Water)</b>         |              |         |           |                 |               |                 |                |               |                 |
| 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            | 1.1           | 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            | ND            | 1               | 09/16/06       | 09/16/06      |                 |
| Hardness (as CaCO3)                                    | SM2340B      | 6I18075 | 1.0       | 1.0             | 180           | 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            | ND            | 1               | 09/14/06       | 09/15/06      |                 |
| Nitrate/Nitrite-N                                      | EPA 300.0    | 6I14139 | 0.080     | 0.15            | ND            | 1               | 09/14/06       | 09/15/06      |                 |
| 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             | 77            | 5               | 09/15/06       | 09/15/06      |                 |
| Total Dissolved Solids                                 | SM2540C      | 6I18061 | 10        | 10              | 370           | 1               | 09/18/06       | 09/18/06      |                 |
| Total Organic Carbon                                   | EPA 415.1    | 6I20145 | 0.50      | 1.0             | 13            | 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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

## INORGANICS

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1295-01 (BST-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| 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 |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1295-01 (BST-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: pH Units                              |           |         |           |                 |               |                 |                |               |                 |
| pH   | EPA 150.1 | 6I15082 | N/A       | NA              | 7.41          | 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 |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1295-01 (BST-EFF - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: umhos/cm                              |           |         |           |                 |               |                 |                |               |                 |
| Specific Conductance                                   | EPA 120.1 | 6118059 | N/A       | 1.0             | 590           | 1               | 09/18/06       | 09/18/06      |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1295

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

## SHORT HOLD TIME DETAIL REPORT

| Sample ID: BST-EFF (IPI1295-01) - Water | Hold Time<br>(in days) | Date/Time<br>Sampled | Date/Time<br>Received | Date/Time<br>Extracted | Date/Time<br>Analyzed |
|---|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1                               | 1                      | 09/14/2006 08:30     | 09/14/2006 18:15      | 09/15/2006 09:25       | 09/15/2006 10:45      |
| EPA 180.1                               | 2                      | 09/14/2006 08:30     | 09/14/2006 18:15      | 09/15/2006 14:00       | 09/15/2006 15:35      |
| EPA 300.0                               | 2                      | 09/14/2006 08:30     | 09/14/2006 18:15      | 09/14/2006 21:00       | 09/15/2006 01:16      |
| Filtration                              | 1                      | 09/14/2006 08:30     | 09/14/2006 18:15      | 09/15/2006 16:50       | 09/15/2006 16:50      |

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 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I15062 Extracted: 09/15/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15062-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15062-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.40   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)</b>      |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.20   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 102  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)</b> |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.24   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 103  | 70-130      | 1   | 20        |                 |
| <b>Batch: 6I18071 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/19/2006 (6I18071-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Antimony  | ND     | 2.0             | 0.050 | ug/l  |             |                           |      |             |     |           |                 |
| Cadmium   | ND     | 1.0             | 0.025 | ug/l  |             |                           |      |             |     |           |                 |
| Copper  | 0.400  | 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  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/19/2006 (6I18071-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Antimony  | 80.1   | 2.0             | 0.050 | ug/l  | 80.0        |                           | 100  | 85-115      |     |           |                 |
| Cadmium   | 81.5   | 1.0             | 0.025 | ug/l  | 80.0        |                           | 102  | 85-115      |     |           |                 |
| Copper  | 80.5   | 2.0             | 0.25  | ug/l  | 80.0        |                           | 101  | 85-115      |     |           |                 |
| Lead  | 82.3   | 1.0             | 0.040 | ug/l  | 80.0        |                           | 103  | 85-115      |     |           |                 |
| Selenium  | 80.9   | 2.0             | 0.30  | ug/l  | 80.0        |                           | 101  | 85-115      |     |           |                 |
| Silver  | 80.3   | 1.0             | 0.025 | ug/l  | 80.0        |                           | 100  | 85-115      |     |           |                 |
| Thallium  | 84.3   | 1.0             | 0.15  | ug/l  | 80.0        |                           | 105  | 85-115      |     |           |                 |

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R-2A Pond Pilot Test  
Report Number: IPI1295

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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18071 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/19/2006 (6I18071-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1509-01</b> |      |             |     |           |                 |
| Antimony  | 80.6   | 2.0             | 0.050 | ug/l  | 80.0        | 0.15                      | 101  | 70-130      |     |           |                 |
| Cadmium   | 80.6   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 101  | 70-130      |     |           |                 |
| Copper  | 81.9   | 2.0             | 0.25  | ug/l  | 80.0        | 3.3                       | 98   | 70-130      |     |           |                 |
| Lead  | 77.8   | 1.0             | 0.040 | ug/l  | 80.0        | 0.088                     | 97   | 70-130      |     |           |                 |
| Selenium  | 77.2   | 2.0             | 0.30  | ug/l  | 80.0        | ND                        | 96   | 70-130      |     |           |                 |
| Silver  | 78.0   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 98   | 70-130      |     |           |                 |
| Thallium  | 79.0   | 1.0             | 0.15  | ug/l  | 80.0        | 0.19                      | 99   | 70-130      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/19/2006 (6I18071-MS2)</b>      |        |                 |       |       |             | <b>Source: IPI1509-02</b> |      |             |     |           |                 |
| Antimony  | 79.9   | 2.0             | 0.050 | ug/l  | 80.0        | 0.16                      | 100  | 70-130      |     |           |                 |
| Cadmium   | 79.5   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 99   | 70-130      |     |           |                 |
| Copper  | 86.5   | 2.0             | 0.25  | ug/l  | 80.0        | 0.90                      | 107  | 70-130      |     |           |                 |
| Lead  | 77.5   | 1.0             | 0.040 | ug/l  | 80.0        | 0.060                     | 97   | 70-130      |     |           |                 |
| Selenium  | 76.3   | 2.0             | 0.30  | ug/l  | 80.0        | ND                        | 95   | 70-130      |     |           |                 |
| Silver  | 76.9   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 96   | 70-130      |     |           |                 |
| Thallium  | 74.6   | 1.0             | 0.15  | ug/l  | 80.0        | 0.20                      | 93   | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/19/2006 (6I18071-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1509-01</b> |      |             |     |           |                 |
| Antimony  | 80.3   | 2.0             | 0.050 | ug/l  | 80.0        | 0.15                      | 100  | 70-130      | 0   | 20        |                 |
| Cadmium   | 80.9   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 101  | 70-130      | 0   | 20        |                 |
| Copper  | 78.1   | 2.0             | 0.25  | ug/l  | 80.0        | 3.3                       | 94   | 70-130      | 5   | 20        |                 |
| Lead  | 77.9   | 1.0             | 0.040 | ug/l  | 80.0        | 0.088                     | 97   | 70-130      | 0   | 20        |                 |
| Selenium  | 76.4   | 2.0             | 0.30  | ug/l  | 80.0        | ND                        | 96   | 70-130      | 1   | 20        |                 |
| Silver  | 77.7   | 1.0             | 0.025 | ug/l  | 80.0        | ND                        | 97   | 70-130      | 0   | 20        |                 |
| Thallium  | 82.4   | 1.0             | 0.15  | ug/l  | 80.0        | 0.19                      | 103  | 70-130      | 4   | 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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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1295

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 |
|--|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18075 Extracted: 09/18/06</b>                                      |        |                 |       |       |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I18075-BS1)</b>                                  |        |                 |       |       |             |               |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01</b>      |        |                 |       |       |             |               |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01</b>      |        |                 |       |       |             |               |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01</b> |        |                 |       |       |             |               |      |             |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1295

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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I15121 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/23/2006 (6I15121-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/23/2006 (6I15121-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                                 |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18073-BLK1)</b>                          |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18073-BS1)</b>                             |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1) Source: IPI1226-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1226-01</b> |      |             |     |           |                 |
| 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        |                 |
| <b>Batch: 6I18082 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18082-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18082-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.42   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| Mercury   | 8.28   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 104  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I14139 Extracted: 09/14/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/14/2006 (6I14139-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/14/2006 (6I14139-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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        |                 |
| <b>Batch: 6I15041 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15041-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | ND     | 0.50            | 0.45  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15041-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 10.1   | 0.50            | 0.45  | mg/l  | 10.0        |               | 101       | 90-110 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 183    | 2.5             | 2.2   | mg/l  | 10.0        | 180           | 30        | 80-120 |     |           | M-HA            |

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



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

Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|---|--------|-----------------|-------|----------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I15041 Extracted: 09/15/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)</b> |        |                 |       |          |             | <b>Source: IPI1302-02</b> |      |             |     |           |                 |
| Sulfate   | 184    | 2.5             | 2.2   | mg/l     | 10.0        | 180                       | 40   | 80-120      | 1   | 20        | M-HA            |
| <b><u>Batch: 6I15082 Extracted: 09/15/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)</b>        |        |                 |       |          |             | <b>Source: IPI1268-01</b> |      |             |     |           |                 |
| pH  | 6.87   | NA              | N/A   | pH Units |             | 6.85                      |      |             | 0   | 5         |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)</b>        |        |                 |       |          |             | <b>Source: IPI1293-01</b> |      |             |     |           |                 |
| pH  | 7.55   | NA              | N/A   | pH Units |             | 7.54                      |      |             | 0   | 5         |                 |
| <b><u>Batch: 6I15115 Extracted: 09/15/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15115-BLK1)</b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| Turbidity   | ND     | 1.0             | 0.040 | NTU      |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)</b>        |        |                 |       |          |             | <b>Source: IPI1266-01</b> |      |             |     |           |                 |
| Turbidity   | 3.33   | 1.0             | 0.040 | NTU      |             | 3.4                       |      |             | 2   | 20        |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)</b>        |        |                 |       |          |             | <b>Source: IPI1293-01</b> |      |             |     |           |                 |
| Turbidity   | 1.63   | 1.0             | 0.040 | NTU      |             | 1.6                       |      |             | 2   | 20        |                 |
| <b><u>Batch: 6I16001 Extracted: 09/16/06</u></b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16001-BLK1)</b>            |        |                 |       |          |             |                           |      |             |     |           |                 |
| Oil & Grease  | ND     | 5.0             | 0.94  | mg/l     |             |                           |      |             |     |           |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|---|--------|-----------------|------|----------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I16001 Extracted: 09/16/06</b>                   |        |                 |      |          |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16001-BS1)</b>               |        |                 |      |          |             |               |           |        |     |           |                 |
| Oil & Grease  | 17.9   | 5.0             | 0.94 | mg/l     | 20.0        |               | 90        | 65-120 |     |           | M-NRI           |
| <b>LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)</b>          |        |                 |      |          |             |               |           |        |     |           |                 |
| Oil & Grease  | 18.1   | 5.0             | 0.94 | mg/l     | 20.0        |               | 90        | 65-120 | 1   | 20        |                 |
| <b>Batch: 6I16057 Extracted: 09/16/06</b>                   |        |                 |      |          |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16057-BLK1)</b>            |        |                 |      |          |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                       | ND     | 0.50            | 0.30 | mg/l     |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16057-BS1)</b>               |        |                 |      |          |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                       | 10.9   | 0.50            | 0.30 | mg/l     | 10.0        |               | 109       | 80-115 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/16/2006 (6I16057-MS1)</b>      |        |                 |      |          |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                       | 11.2   | 0.50            | 0.30 | mg/l     | 10.0        | 0.84          | 104       | 70-120 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/16/2006 (6I16057-MSD1)</b> |        |                 |      |          |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                       | 11.2   | 0.50            | 0.30 | mg/l     | 10.0        | 0.84          | 104       | 70-120 | 0   | 15        |                 |
| <b>Batch: 6I18059 Extracted: 09/18/06</b>                   |        |                 |      |          |             |               |           |        |     |           |                 |
| <b>Duplicate Analyzed: 09/18/2006 (6I18059-DUP1)</b>        |        |                 |      |          |             |               |           |        |     |           |                 |
| Specific Conductance  | 2030   | 1.0             | N/A  | umhos/cm |             | 2000          |           |        | 1   | 5         |                 |
| <b>Batch: 6I18061 Extracted: 09/18/06</b>                   |        |                 |      |          |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18061-BLK1)</b>            |        |                 |      |          |             |               |           |        |     |           |                 |
| Total Dissolved Solids                                      | ND     | 10              | 10   | mg/l     |             |               |           |        |     |           |                 |

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 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|--|--------|-----------------|------|-------|-------------|---------------------------|-----------|--------|-----|-----------|-----------------|
| <b><u>Batch: 6I18061 Extracted: 09/18/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18061-BS1)</b>        |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Dissolved Solids                               | 994    | 10              | 10   | mg/l  | 1000        |                           | 99        | 90-110 |     |           |                 |
| <b>Duplicate Analyzed: 09/18/2006 (6I18061-DUP1)</b> |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Dissolved Solids                               | 343    | 10              | 10   | mg/l  |             | Source: IPI1321-01<br>350 |           |        | 2   | 10        |                 |
| <b><u>Batch: 6I18075 Extracted: 09/18/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I18075-BLK1)</b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| Hardness (as CaCO3)                                  | ND     | 1.0             | 1.0  | mg/l  |             |                           |           |        |     |           |                 |
| <b><u>Batch: 6I20071 Extracted: 09/20/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>Duplicate Analyzed: 09/20/2006 (6I20071-DUP1)</b> |        |                 |      |       |             |                           |           |        |     |           |                 |
| Alkalinity as CaCO3                                  | 348    | 2.0             | 2.0  | mg/l  |             | Source: IPI1125-01<br>350 |           |        | 1   | 20        |                 |
| <b>Reference Analyzed: 09/20/2006 (6I20071-SRM1)</b> |        |                 |      |       |             |                           |           |        |     |           |                 |
| Alkalinity as CaCO3                                  | 224    | 2.0             | 2.0  | mg/l  | 231         |                           | 97        | 90-110 |     |           |                 |
| <b><u>Batch: 6I20101 Extracted: 09/20/06</u></b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20101-BLK1)</b>     |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Kjeldahl Nitrogen                              | ND     | 0.50            | 0.43 | mg/l  |             |                           |           |        |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20101-BS1)</b>        |        |                 |      |       |             |                           |           |        |     |           |                 |
| Total Kjeldahl Nitrogen                              | 19.6   | 0.50            | 0.43 | mg/l  | 20.0        |                           | 98        | 85-120 |     |           |                 |

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 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I20101 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)</b>          |        |                 |      |       |             |                           |      |             |     |           |                 |
| Total Kjeldahl Nitrogen                                     | 19.9   | 0.50            | 0.43 | mg/l  | 20.0        |                           | 100  | 85-120      | 2   | 15        |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1)</b>      |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1210-01</b> |      |             |     |           |                 |
| Total Kjeldahl Nitrogen                                     | 10.6   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84                      | 98   | 85-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1)</b> |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1210-01</b> |      |             |     |           |                 |
| Total Kjeldahl Nitrogen                                     | 11.2   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84                      | 104  | 85-120      | 6   | 15        |                 |
| <b><u>Batch: 6I20128 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20128-BLK2)</b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| Total Suspended Solids                                      | ND     | 10              | 10   | mg/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20128-BS2)</b>               |        |                 |      |       |             |                           |      |             |     |           |                 |
| Total Suspended Solids                                      | 1040   | 10              | 10   | mg/l  | 1000        |                           | 104  | 85-115      |     |           |                 |
| <b>Duplicate Analyzed: 09/20/2006 (6I20128-DUP2)</b>        |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1285-02</b> |      |             |     |           |                 |
| Total Suspended Solids                                      | 2270   | 10              | 10   | mg/l  |             | 2100                      |      |             | 8   | 10        |                 |
| <b><u>Batch: 6I20145 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20145-BLK1)</b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| Total Organic Carbon  | ND     | 1.0             | 0.25 | mg/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20145-BS1)</b>               |        |                 |      |       |             |                           |      |             |     |           |                 |
| Total Organic Carbon  | 10.7   | 1.0             | 0.25 | mg/l  | 10.0        |                           | 107  | 90-110      |     |           |                 |

TestAmerica - Irvine, CA  
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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1295

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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I20145 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20145-MS1)</b>      |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.34   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 97   | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20145-MSD1)</b> |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.52   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 100  | 80-120      | 3   | 20        |                 |
| <b><u>Batch: 6I22108 Extracted: 09/22/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)</b>        |        |                 |      |       |             | <b>Source: IPI0964-02</b> |      |             |     |           |                 |
| Density   | 0.999  | NA              | N/A  | g/cc  |             | 1.0                       |      |             | 0   | 20        |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
R-2A Pond Pilot Test  
Report Number: IPI1295

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

## DATA QUALIFIERS AND DEFINITIONS

- 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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 R-2A Pond Pilot Test  
 Report Number: IPI1295

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

## 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](http://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: IPI1295-01

### TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin  
 Project Manager

# Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

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: *Samir*

| Sample Description | Sample Matrix | Container Type | # of Cont. | 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 | SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) | Turbidity, TSS, Conductivity | Ammonia-N (NH3-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 = 67, pH = 7.0 | Comments |
|--------------------|---------------|----------------|------------|--------------|----------|--|---|----------------------|--------------------------|-------------------------|--|------------------------------|-------------------|--|--------------------------|-------------------------------------|----------|
| BST-EFF            | W             | Poly-1L        | 1          | HNO3         | 1        | X  |   |                      |                          |                         |  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | Poly-1L        | 1          | None         | 2        |  | X   |                      |                          |                         |  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | VOAs           | 2          | HCl          | 3A, 3B   |  |   | X                    |                          |                         |  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | 1L Amber       | 2          | HCl          | 4A, 4B   |  |   | X                    |                          |                         |  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | Poly-500 ml    | 1          | H2SO4        | 5        |  |   |                      | X                        |                         |  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | Poly-500 ml    | 1          | None         | 6        |  |   |                      |                          | X                       |  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | Poly-500 ml    | 2          | None         | 7A, 7B   |  |   |                      |                          |                         | X  |                              |                   |  |                          |                                     |          |
| BST-EFF            | W             | Poly-500 ml    | 1          | H2SO4        | 8        |  |   |                      |                          |                         |  | X                            |                   |  |                          |                                     |          |
| BST-EFF            | W             | Poly-1L        | 1          | None         | 9        |  |   |                      |                          |                         |  |                              | X                 |  |                          |                                     |          |
| BST-EFF            | W             | 1L Amber       | 2          | None         | 10A, 10B |  |   |                      |                          |                         |  |                              |                   | X  |                          |                                     |          |

Relinquished By: *Kevin* Date/Time: 9-14-06 1500  
 Received By: *Edwards* Date/Time: 9-14-06 1500

Relinquished By: *Edwards* Date/Time: 9-14-06 1815  
 Received By: *Edwards* Date/Time: 9-14-06 1815

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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:

*Edwards R. 9/14/06 1815*

*DN210C*





September 21, 2006

**Alta Project I.D.: 28110**

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 "IPI1295". 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](mailto: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**

28110-001

IPI1295-01

## 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 <sup>a</sup> | EMPC <sup>b</sup> | Qualifiers  | Labeled Standard                              | %R                  | LCL-UCL <sup>d</sup> | Qualifiers            |    |
| 2,3,7,8-TCDD        | ND           | 0.00000120      |                   |             | <b>IS</b> 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      |                   |             | <b>CRS</b> 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 14:20

| 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 | <b>IS</b> 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   | <b>CRS</b> 37Cl-2,3,7,8-TCDD | 81.1      | 35 - 197              |    |

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:20

| Sample ID: <b>IPI1295-01</b> |                     |                 |                   |            | EPA Method 1613                               |           |                       |            |
|------------------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data                  |                     |                 | Sample Data       |            | Laboratory Data                               |           |                       |            |
| Name:                        | Test America-Irvine |                 | Matrix:           | Aqueous    | Lab Sample:                                   | 28110-001 | Date Received:        | 16-Sep-06  |
| Project:                     | IPI1295             |                 | Sample Size:      | 1.02 L     | QC Batch No.:                                 | 8381      | Date Extracted:       | 18-Sep-06  |
| Date Collected:              | 14-Sep-06           |                 |                   |            | Date Analyzed DB-5:                           | 20-Sep-06 | Date Analyzed DB-225: | NA         |
| Time Collected:              | 0830                |                 |                   |            |   |           |                       |            |
| Analyte                      | Conc. (ug/L)        | DL <sup>a</sup> | EMPC <sup>b</sup> | Qualifiers | Labeled Standard                              | %R        | LCL-UCL <sup>d</sup>  | Qualifiers |
| 2,3,7,8-TCDD                 | ND                  | 0.00000134      |                   |            | <b>IS</b> 13C-2,3,7,8-TCDD                    | 62.3      | 25 - 164              |            |
| 1,2,3,7,8-PeCDD              | ND                  | 0.00000323      |                   |            | 13C-1,2,3,7,8-PeCDD                           | 51.9      | 25 - 181              |            |
| 1,2,3,4,7,8-HxCDD            | ND                  | 0.00000254      |                   |            | 13C-1,2,3,4,7,8-HxCDD                         | 56.1      | 32 - 141              |            |
| 1,2,3,6,7,8-HxCDD            | ND                  | 0.00000262      |                   |            | 13C-1,2,3,6,7,8-HxCDD                         | 61.2      | 28 - 130              |            |
| 1,2,3,7,8,9-HxCDD            | ND                  | 0.00000249      |                   |            | 13C-1,2,3,4,6,7,8-HpCDD                       | 68.2      | 23 - 140              |            |
| 1,2,3,4,6,7,8-HpCDD          | ND                  |                 | 0.00000560        |            | 13C-OCDD                                      | 60.2      | 17 - 157              |            |
| OCDD                         | 0.0000507           |                 |                   |            | 13C-2,3,7,8-TCDF                              | 65.0      | 24 - 169              |            |
| 2,3,7,8-TCDF                 | ND                  | 0.00000148      |                   |            | 13C-1,2,3,7,8-PeCDF                           | 49.8      | 24 - 185              |            |
| 1,2,3,7,8-PeCDF              | ND                  | 0.00000316      |                   |            | 13C-2,3,4,7,8-PeCDF                           | 46.4      | 21 - 178              |            |
| 2,3,4,7,8-PeCDF              | ND                  | 0.00000339      |                   |            | 13C-1,2,3,4,7,8-HxCDF                         | 60.6      | 26 - 152              |            |
| 1,2,3,4,7,8-HxCDF            | ND                  | 0.00000178      |                   |            | 13C-1,2,3,6,7,8-HxCDF                         | 57.3      | 26 - 123              |            |
| 1,2,3,6,7,8-HxCDF            | ND                  | 0.00000166      |                   |            | 13C-2,3,4,6,7,8-HxCDF                         | 55.4      | 28 - 136              |            |
| 2,3,4,6,7,8-HxCDF            | ND                  | 0.00000208      |                   |            | 13C-1,2,3,7,8,9-HxCDF                         | 50.4      | 29 - 147              |            |
| 1,2,3,7,8,9-HxCDF            | ND                  | 0.00000399      |                   |            | 13C-1,2,3,4,6,7,8-HpCDF                       | 60.3      | 28 - 143              |            |
| 1,2,3,4,6,7,8-HpCDF          | ND                  | 0.00000227      |                   |            | 13C-1,2,3,4,7,8,9-HpCDF                       | 58.6      | 26 - 138              |            |
| 1,2,3,4,7,8,9-HpCDF          | ND                  | 0.00000109      |                   |            | 13C-OCDF                                      | 51.2      | 17 - 157              |            |
| OCDF                         | ND                  | 0.00000548      |                   |            | <b>CRS</b> 37Cl-2,3,7,8-TCDD                  | 76.9      | 35 - 197              |            |
| Totals                       |                     |                 |                   |            | Footnotes                                     |           |                       |            |
| Total TCDD                   | ND                  | 0.00000134      |                   |            | a. Sample specific estimated detection limit. |           |                       |            |
| Total PeCDD                  | ND                  | 0.00000588      |                   |            | b. Estimated maximum possible concentration.  |           |                       |            |
| Total HxCDD                  | ND                  | 0.00000255      |                   |            | c. Method detection limit.                    |           |                       |            |
| Total HpCDD                  | 0.00000572          |                 | 0.0000113         |            | d. Lower control limit - upper control limit. |           |                       |            |
| Total TCDF                   | ND                  | 0.00000148      |                   |            |   |           |                       |            |
| Total PeCDF                  | ND                  | 0.00000327      |                   |            |   |           |                       |            |
| Total HxCDF                  | ND                  | 0.00000225      |                   |            |   |           |                       |            |
| Total HpCDF                  | ND                  | 0.00000244      |                   |            |   |           |                       |            |

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:20

## **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

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

0.1°C, 28110

## SUBCONTRACT ORDER - PROJECT # IPI1295

### 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: IPI1295-01<br>1613-Dioxin-HR-Alta | Water<br>09/21/06 08:30 | Sampled: 09/14/06 08:30<br>J flags, 17 cngnrs, no TEQ, ug/L, sub=Alta, Boeing EDD |

### Containers Supplied:

- 1 L Amber (IPI1295-01M)
- 1 L Amber (IPI1295-01N)

### 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°C

~~Released By~~ 9/15/06 ~~Date~~ Michael Jellert ~~Received By~~ 9/16/06 ~~Date~~ 0830 ~~Time~~

Released By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

### SAMPLE LOG-IN CHECKLIST

Alta Project #: 28110 TAT Standard

|                     |   |   |   |
|---------------------|---|---|---|
| Samples Arrival:    | Date/Time<br><u>9/16/06 0830</u>          | Initials:<br><u>MA</u>                  | Location: <u>WR-2</u><br>Shelf/Rack: <u>N/A</u> |
| Logged In:          | Date/Time<br><u>9/16/06 0909</u>          | Initials:<br><u>FEB</u>                 | Location: <u>WR-2</u><br>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: 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="checkbox"/> 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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented? |      |  | <input checked="" type="checkbox"/> None |
| Shipping Container   | Alta | <input checked="" type="checkbox"/> Client | Retain                                   |
|  |      | <input checked="" type="checkbox"/> Return | <input type="checkbox"/> Dispose         |

Comments:

## **EXTRACTION INFORMATION**

PROCESS SHEET

Project No.-AR: 28110-1 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"/> | IPI1295-01 |             | 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:

Project 28110

Drog





Project: 28110

# 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 9/18/06       | 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"/> | 28110_8381_001 | ↓     | 1.022           | ↓                    | ↓                 | ↓            | ↓              | ↓            | ↓                  | ↓                |

|                                 |                                 |                                 |                                 |             |                                |                        |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------|--------------------------------|------------------------|
| IS Name                         | NS Name                         | CRS Name                        | RS Name                         | Cycle Time  | APP.: SEFUN SOX                | Check Out:             |
| PCDD/F <u>10µl 060110A</u> (V2) | PCDD/F <u>10µl 060110B</u> (V2) | PCDD/F <u>10µl 060110C</u> (V3) | PCDD/F <u>10µl 060110D</u> (V3) | 9/18        | SOLV: TOL                      | Chemist: TEH 9/18/06   |
| PCB                             | PCB                             | PCB                             | PCB                             | Start: 1230 | Other: SPE                     | Check-In:              |
| PAH                             | PAH                             | PAH                             | PAH                             | Stop: 0430  | Final Volume(s): <u>2µl CH</u> | Chemist: Empty 9/18/06 |

**Comments:**

Project 28110 Page 16 of 231



## **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.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL) |
|---------------------|----------------------|-----------------|---------------|------|----------------|-------------------------------|
|                     | FORMING<br>RATIO (1) | ABUND.<br>RATIO | LIMITS<br>(2) |      |                |                               |
| 2,3,7,8-TCDD        | M/M+2                | 0.79            | 0.65-0.89     | y    | 9.37           | 7.8 - 12.9<br>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<br>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<br>FORMING<br>RATIO (1) | ION<br>ABUND.<br>RATIO | QC<br>LIMITS<br>(2) | Pass | CONC.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL)    |   |
|-------------------------|-------------------------------|------------------------|---------------------|------|----------------|----------------------------------|---|
| 13C-2,3,7,8-TCDD        | M/M+2                         | 0.78                   | 0.65-0.89           | y    | 99.0           | 82.0 - 121.0<br>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<br>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<br>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<br>76.0 - 131.0 (5) | (5) Contract-required concentration range, as specified<br>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<br>RT | ISOMERS                 | ABSOLUTE<br>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)

&lt;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   | 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<br>Relative Retention Times (RRT)<br>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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.            |
|---------------------|---------------------------|------------------------|--------------|------|----------------|------------------|
|                     |                           |                        |              |      |                | RANGE<br>(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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(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

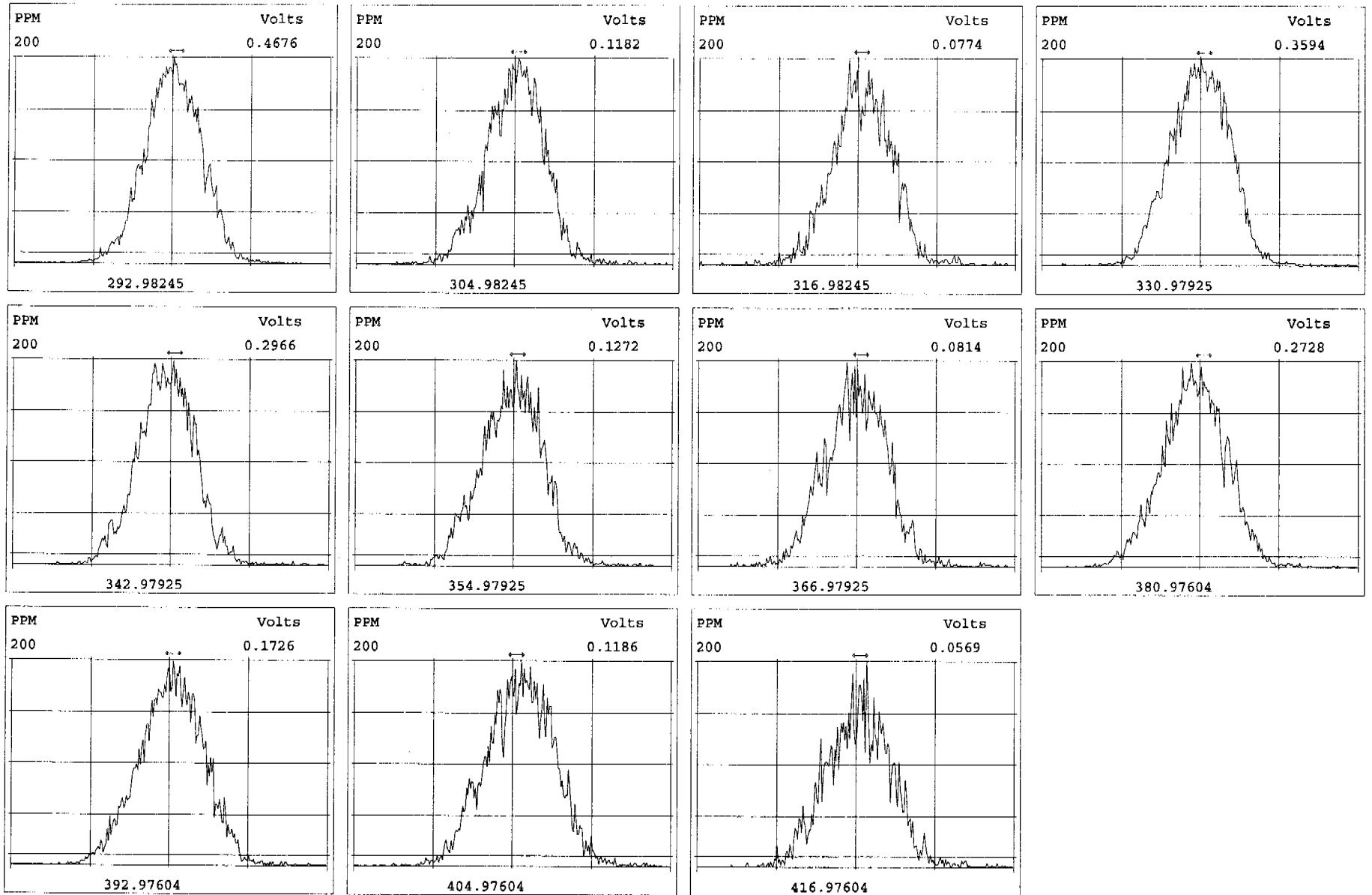
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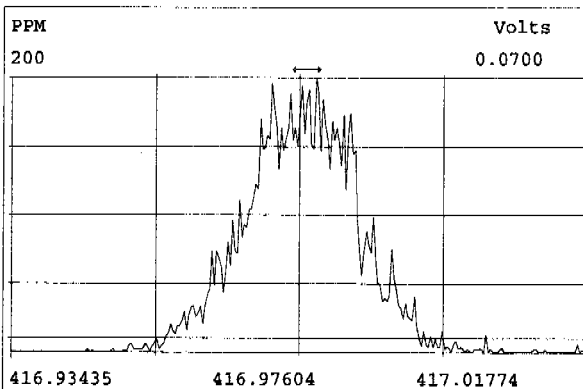
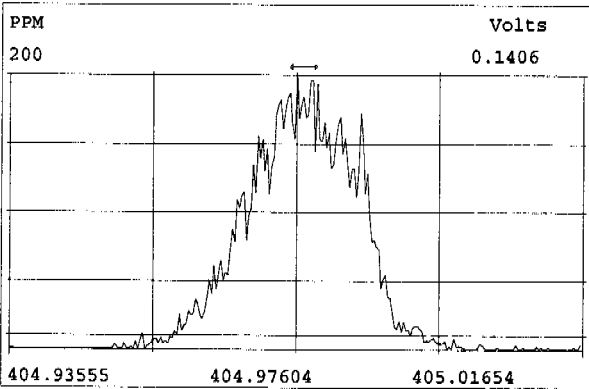
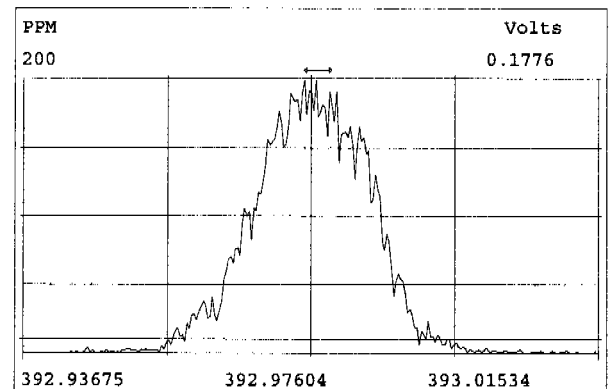
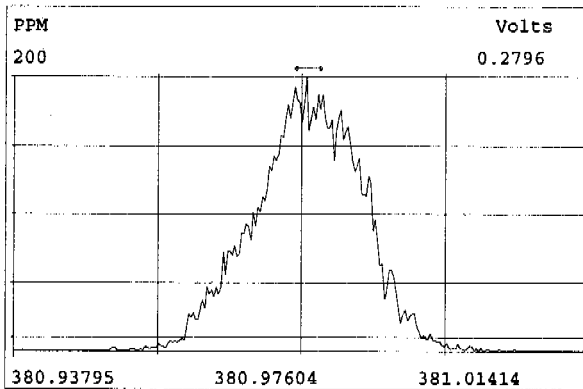
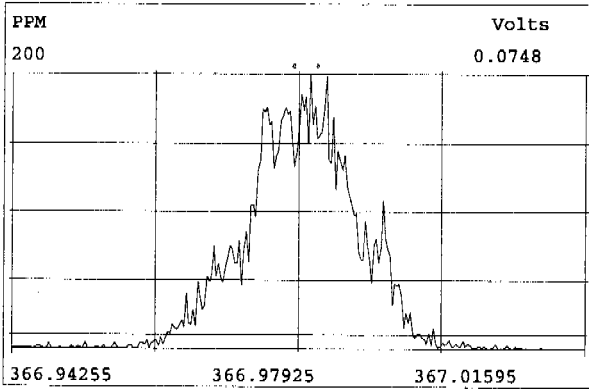
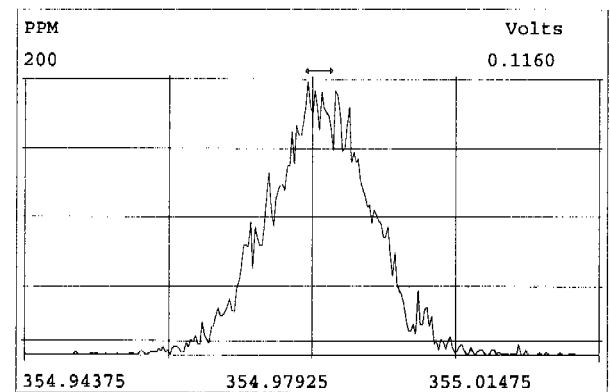
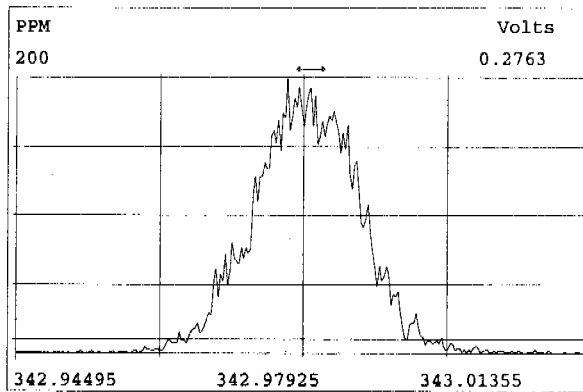
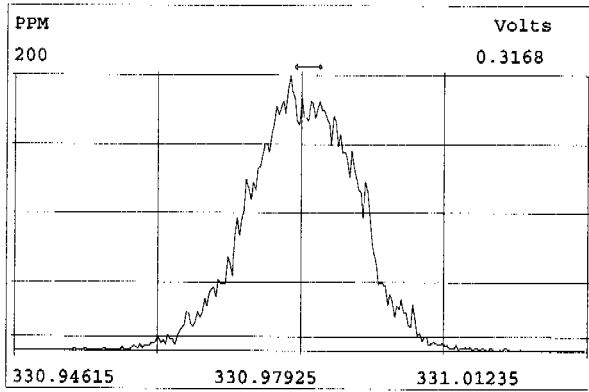
|   | <u>Beg.</u>                           | <u>End</u>                          |                                 | <u>Beg.</u>                         | <u>End</u>                          |
|---|---------------------------------------|-------------------------------------|---------------------------------|-------------------------------------|-------------------------------------|
| 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?<br>(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          |                                 |                                     |                                     |

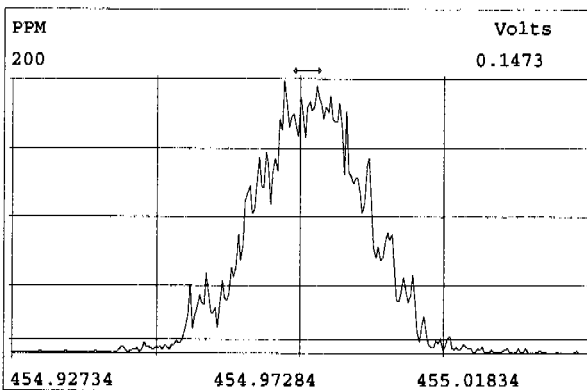
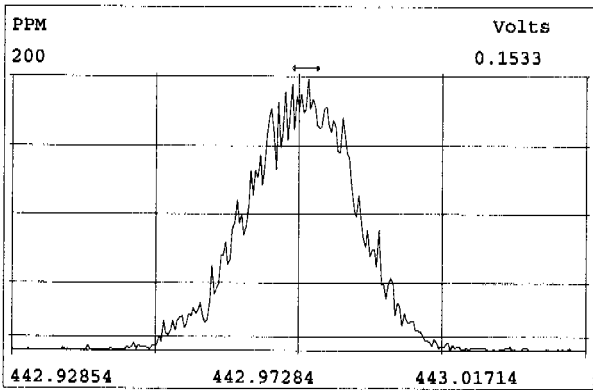
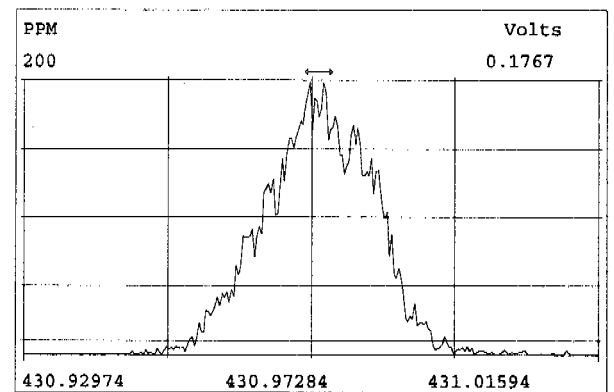
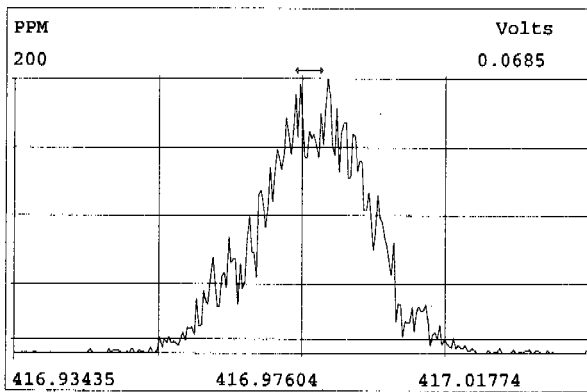
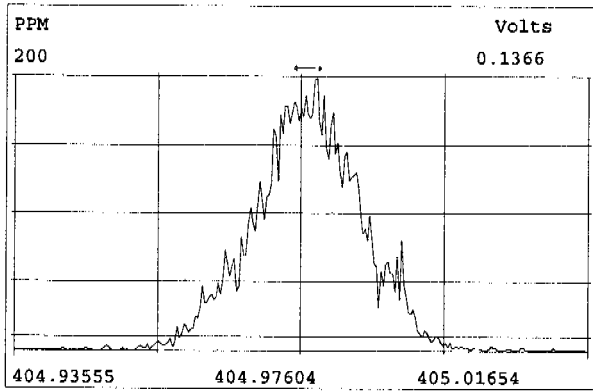
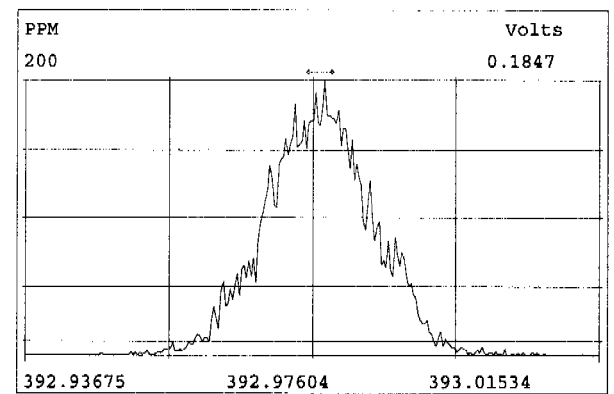
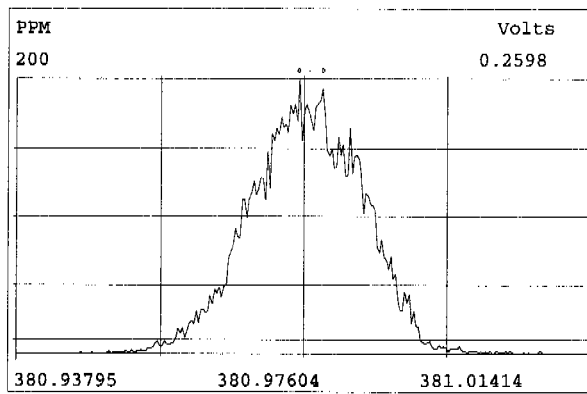
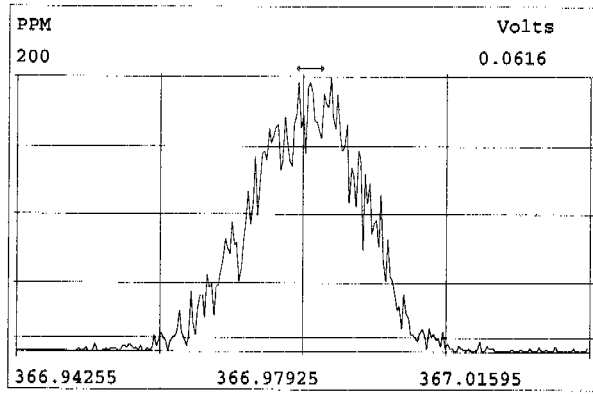
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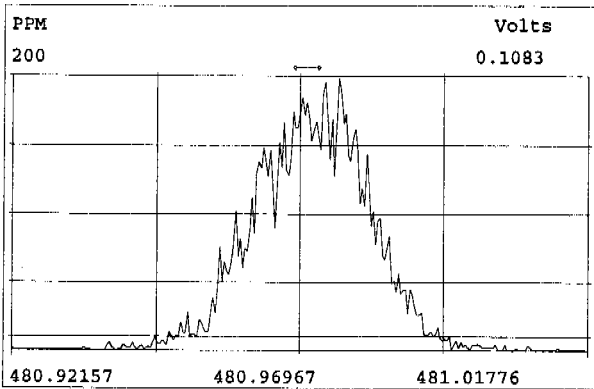
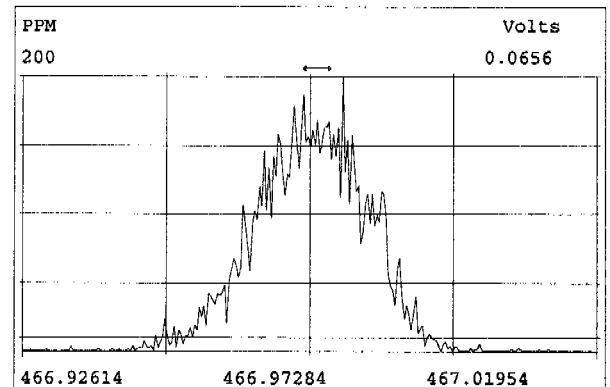
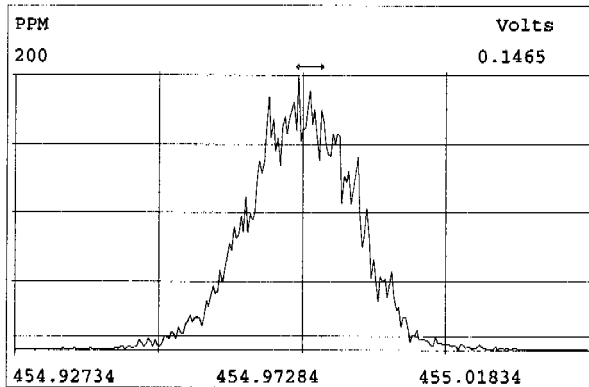
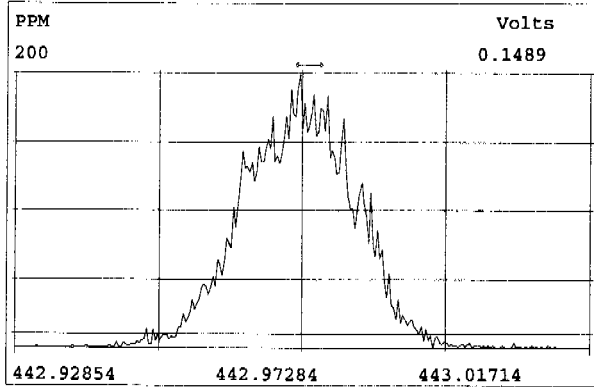
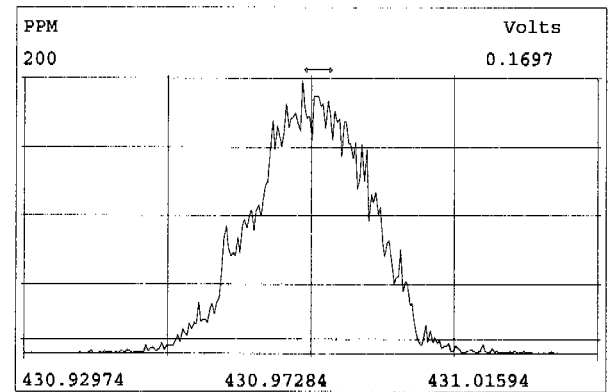
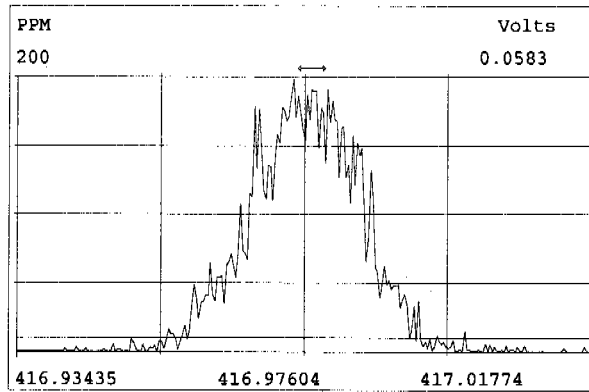
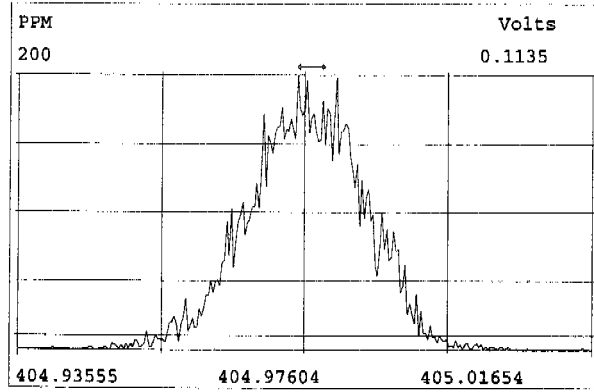
Reviewed by: J 9/25/06  
 Initials & Date

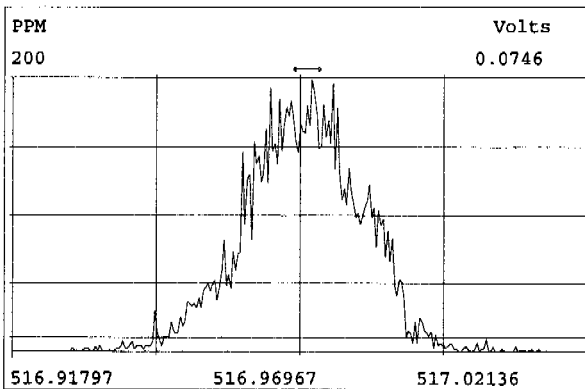
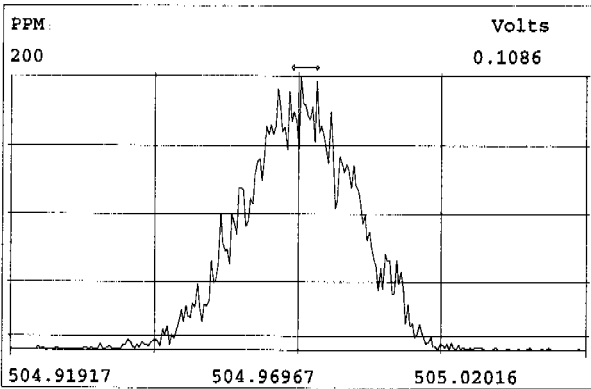
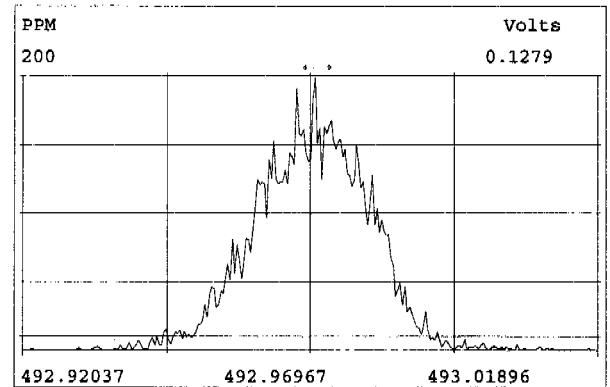
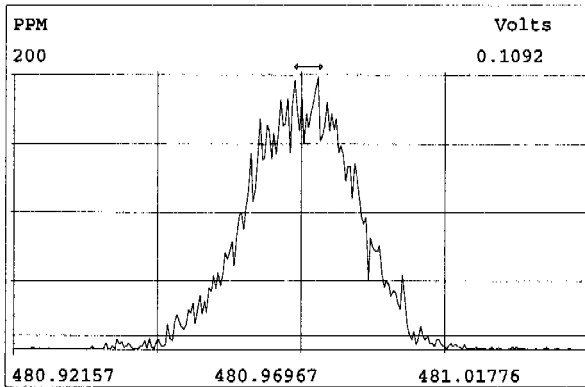
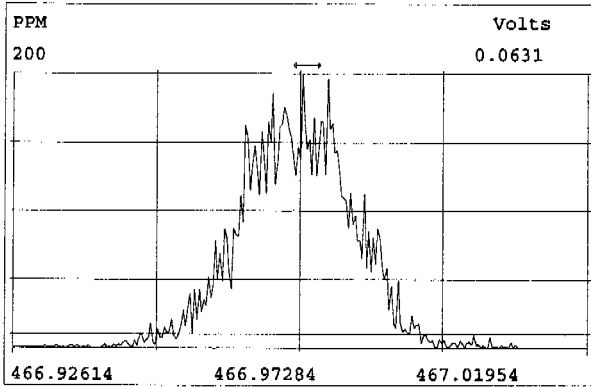
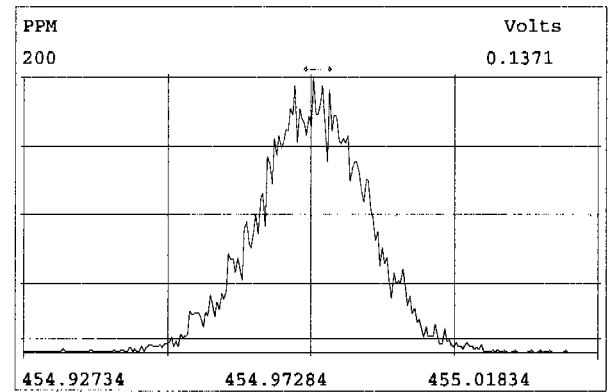
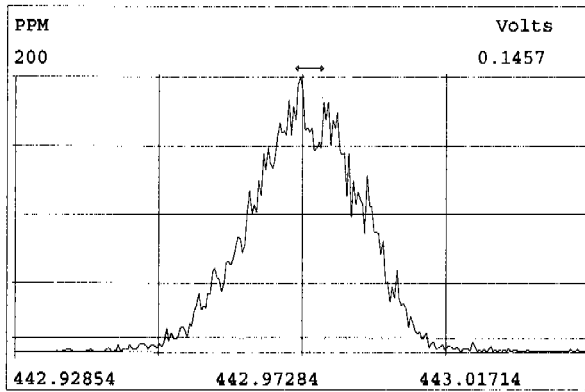
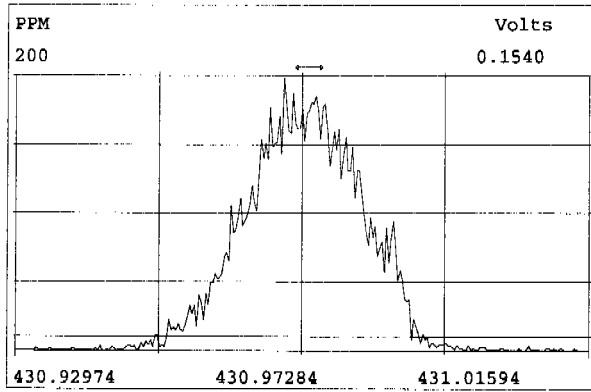
\* Ending standard criteria applicable to 8290 only.





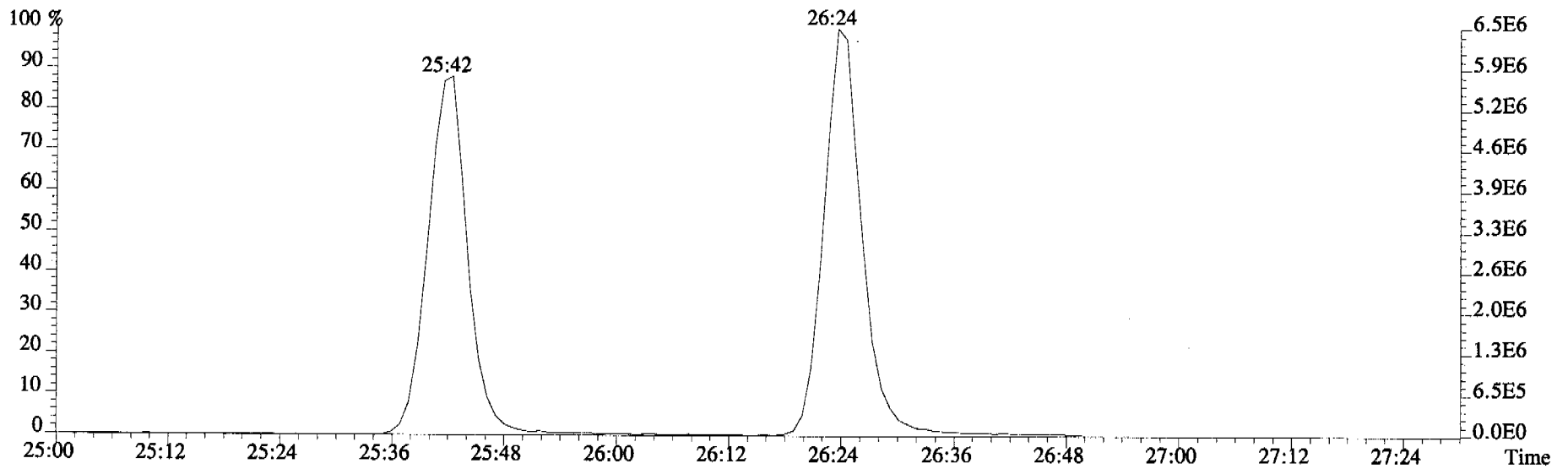
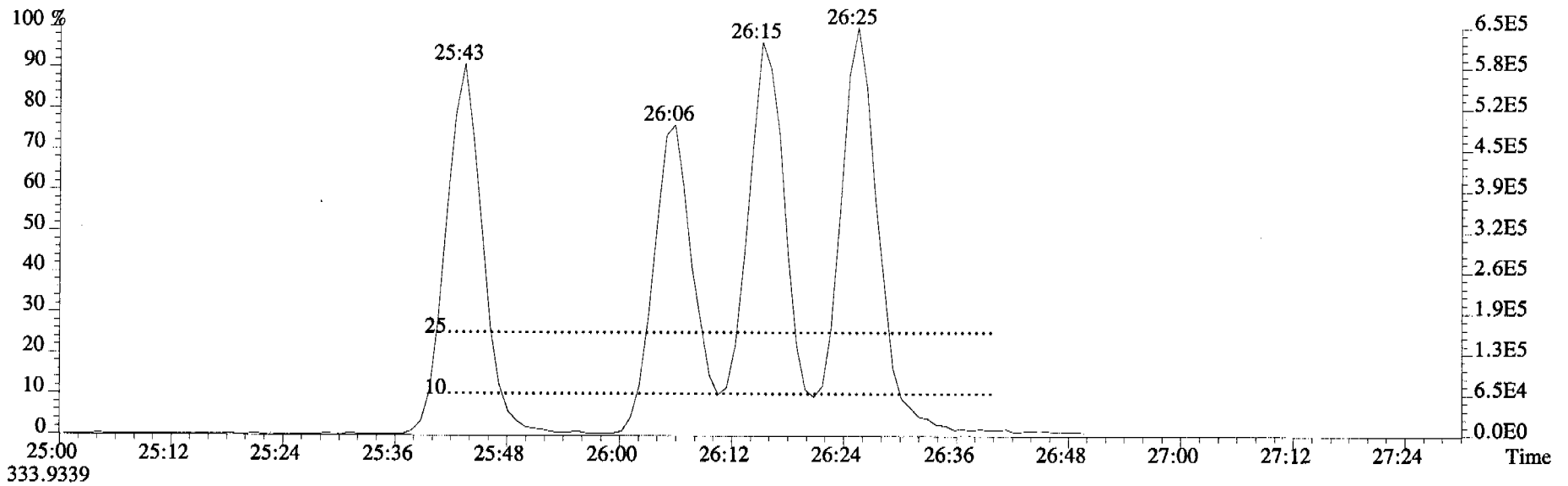




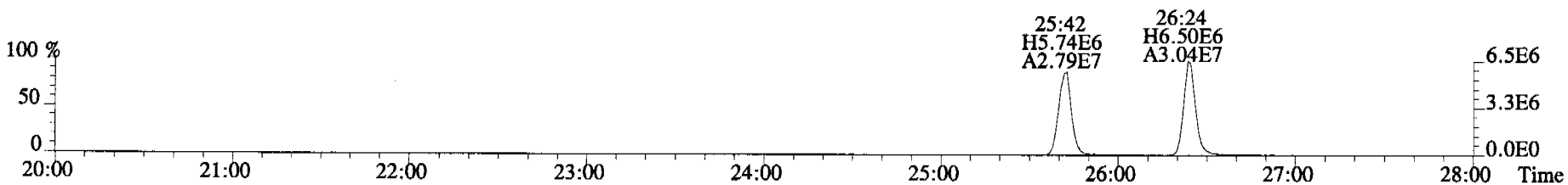
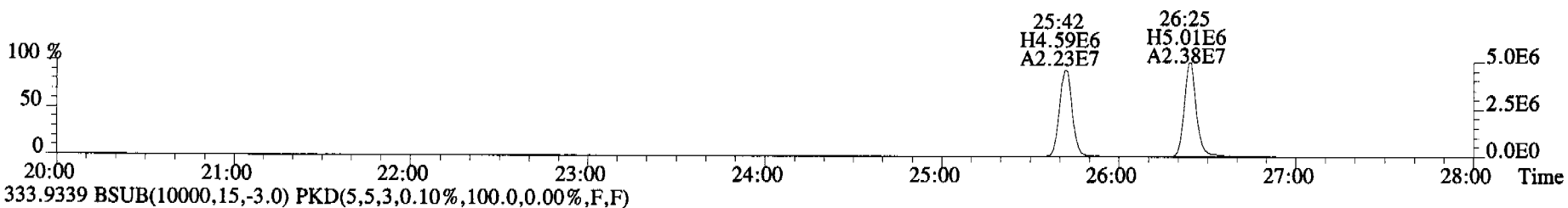
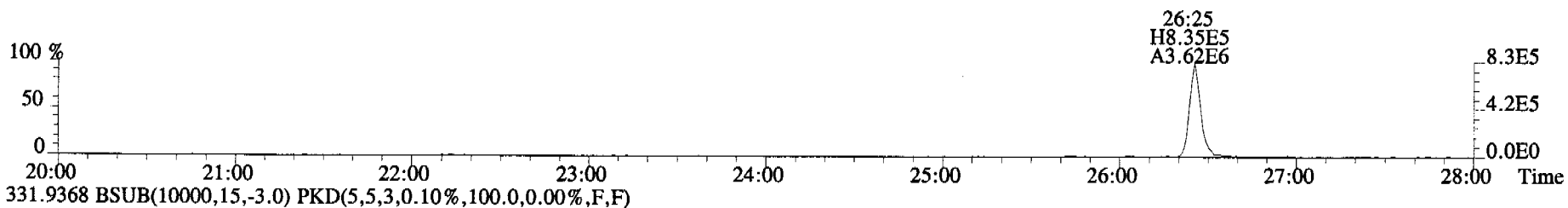
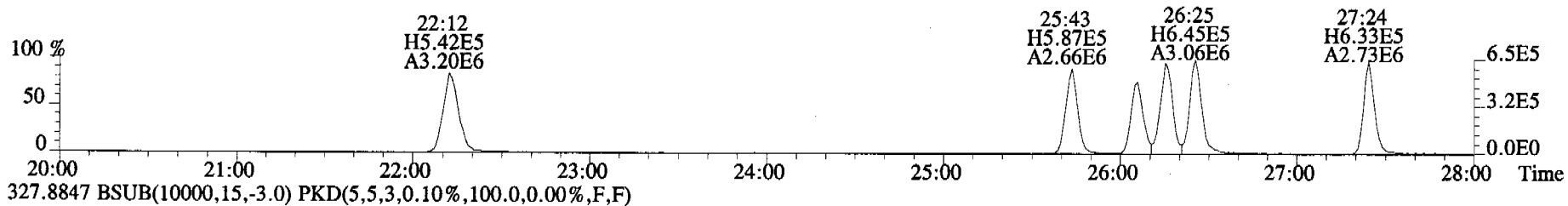
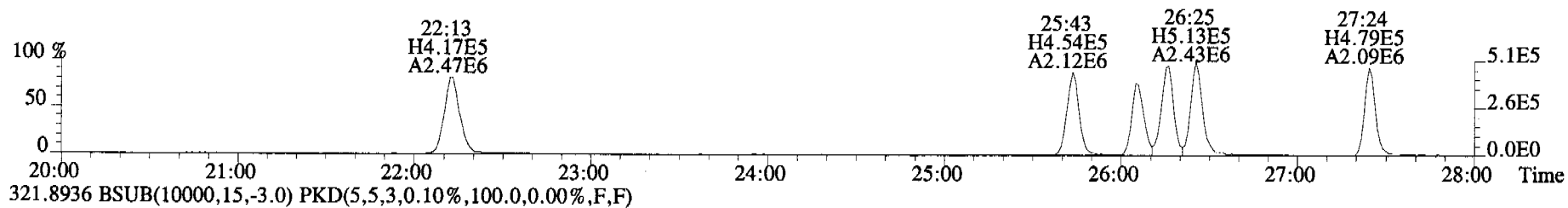




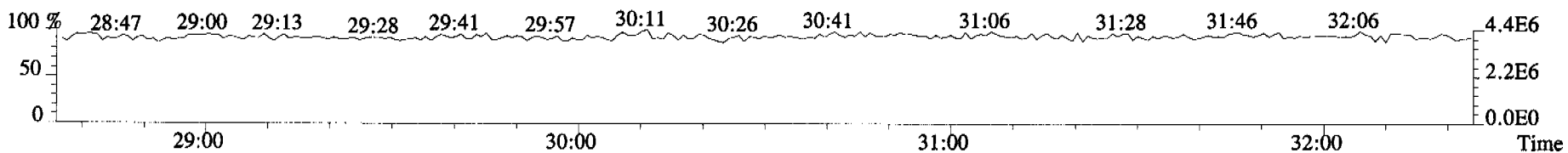
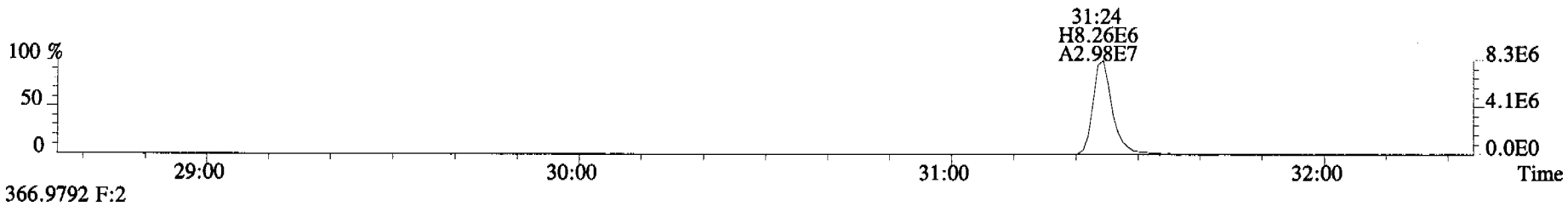
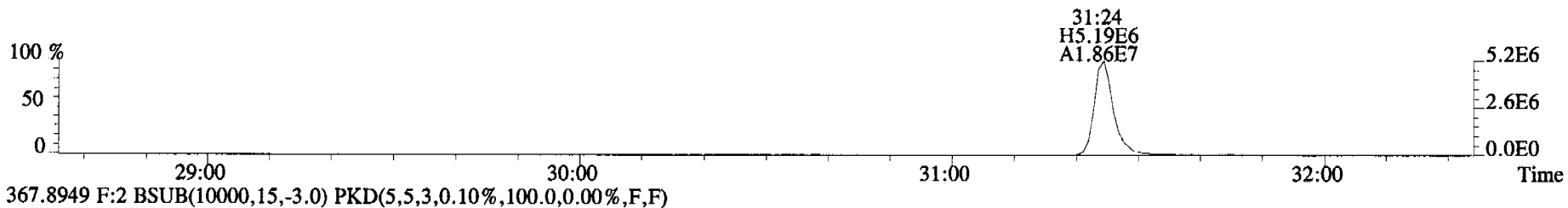
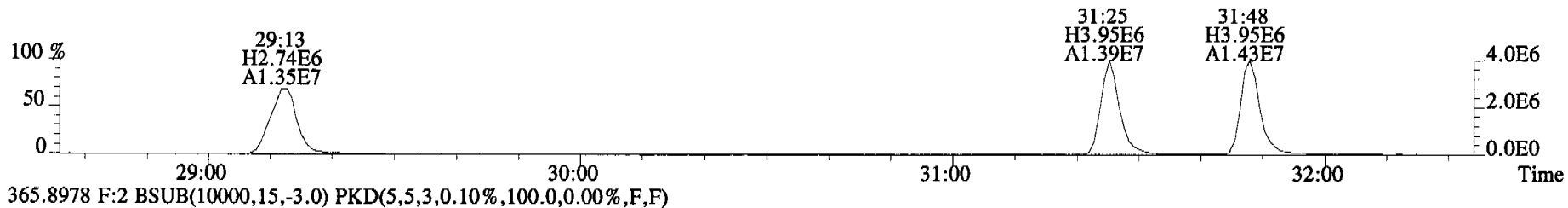
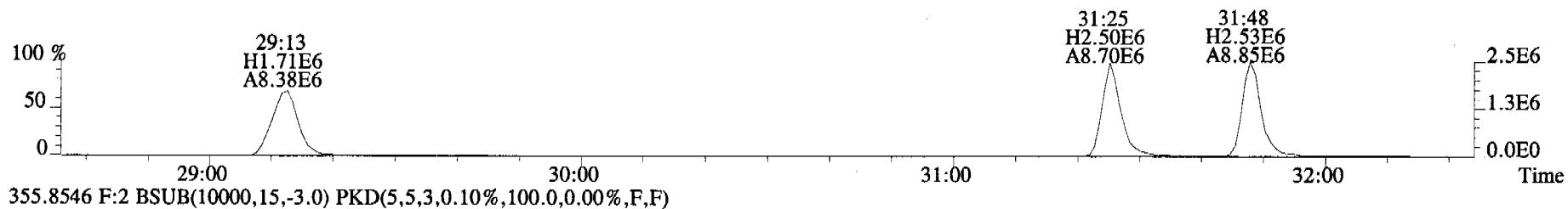
File:060920C2 #1-470 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
321.8936



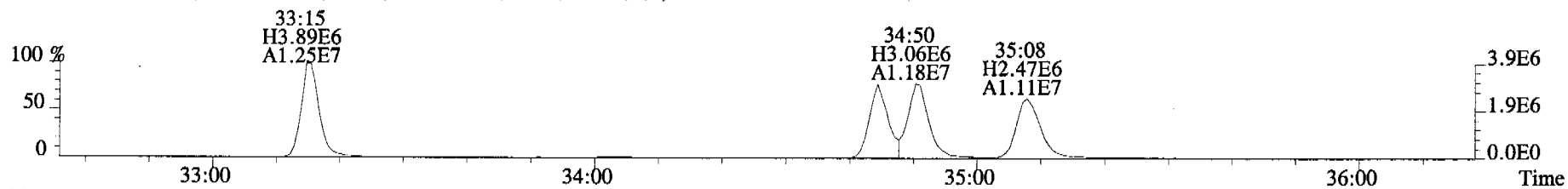
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



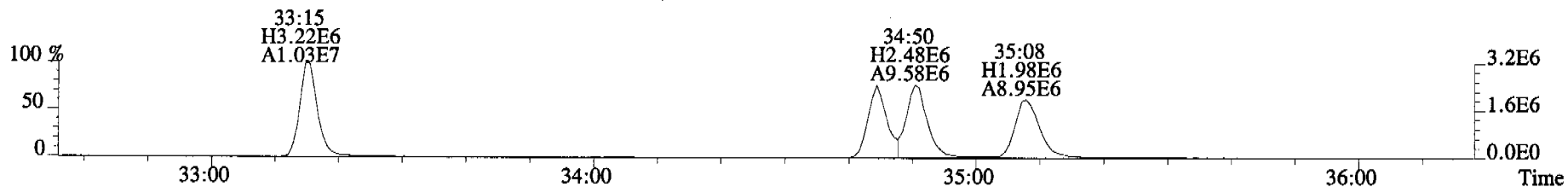
File:060920C2 #1-324 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



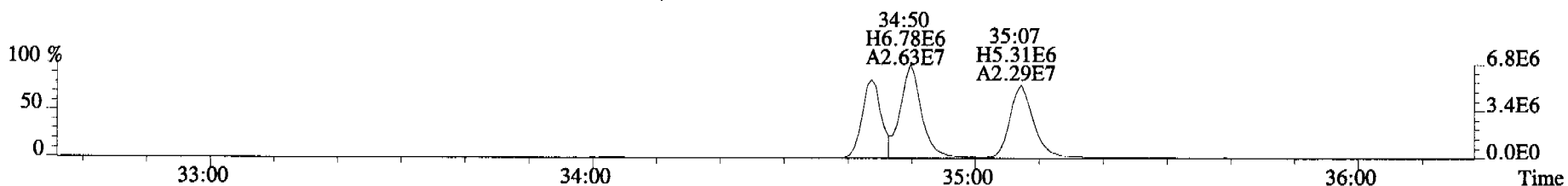
File:060920C2 #1-363 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



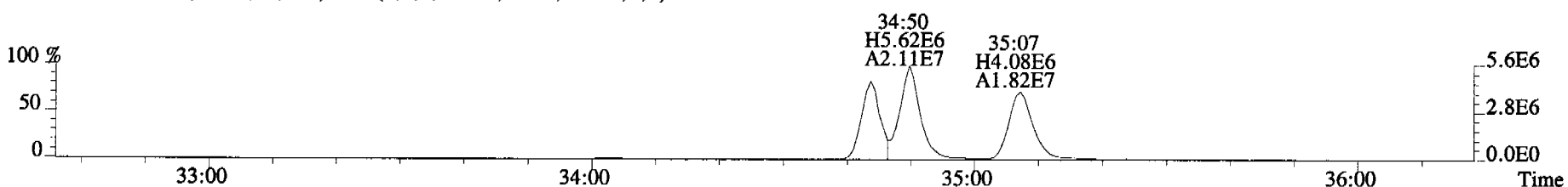
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



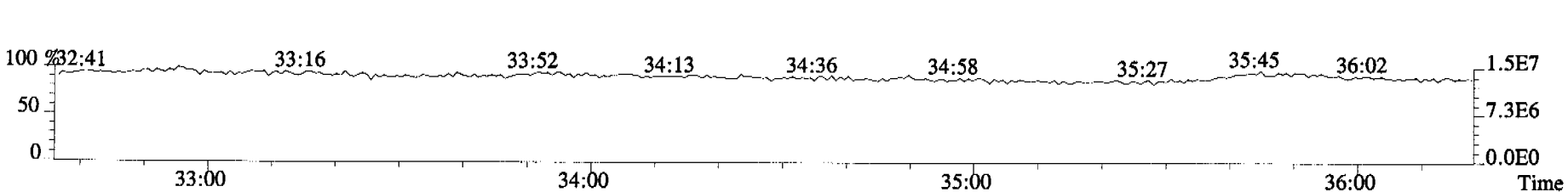
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



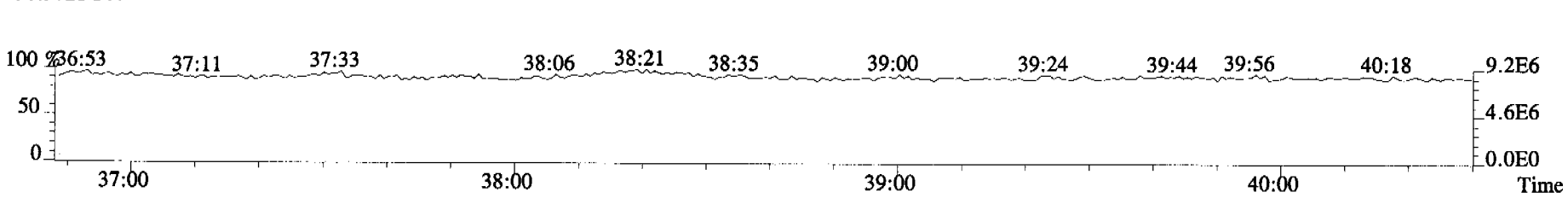
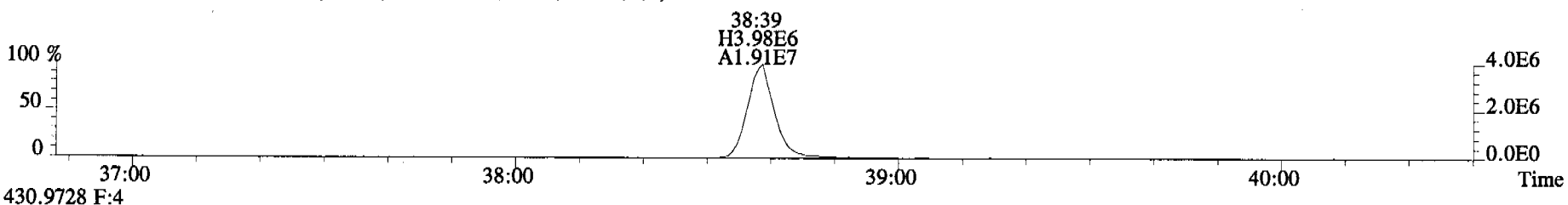
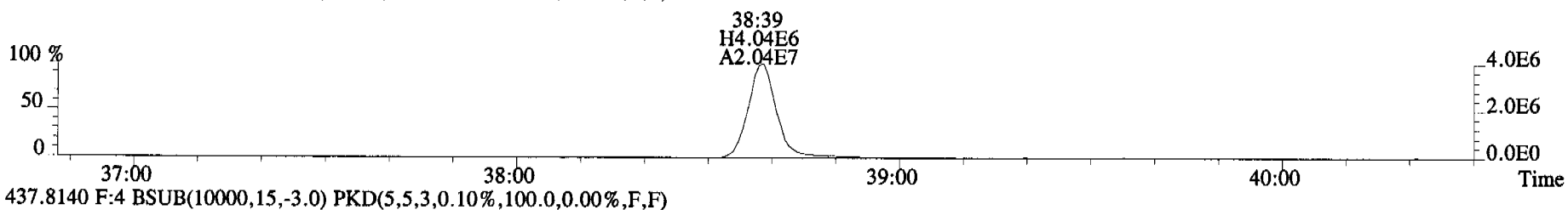
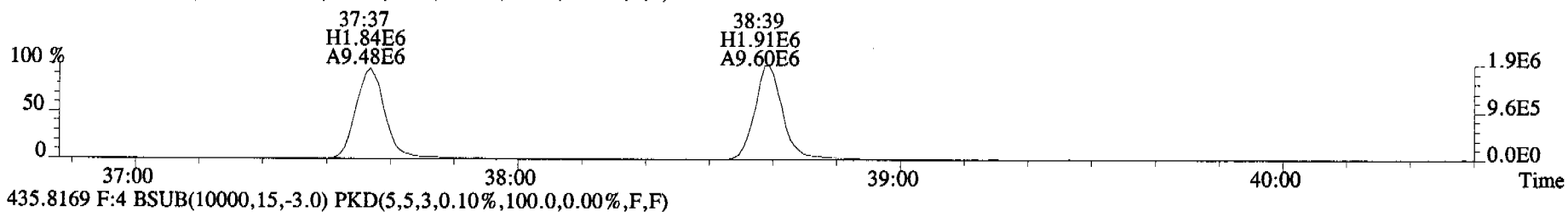
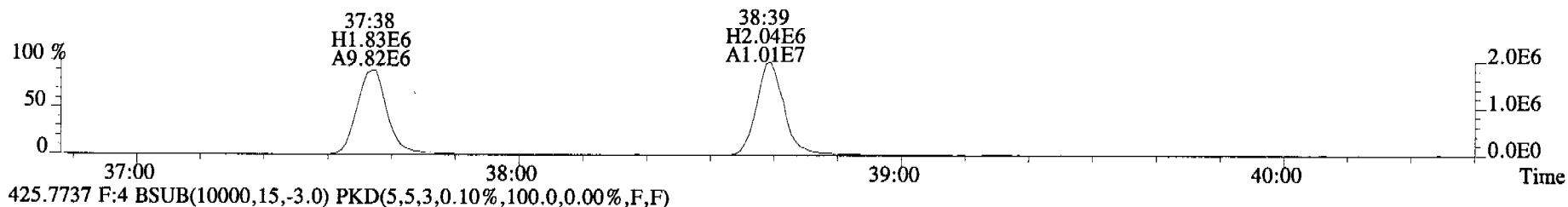
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



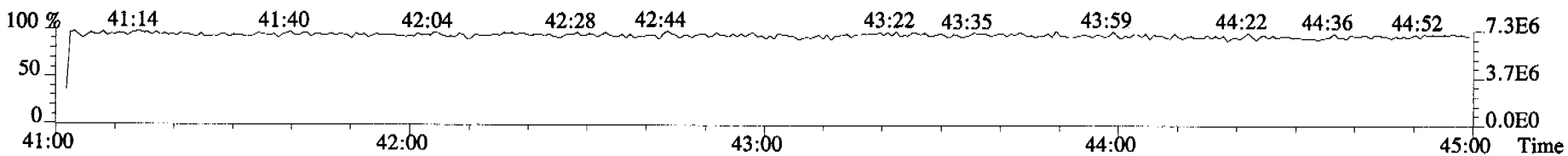
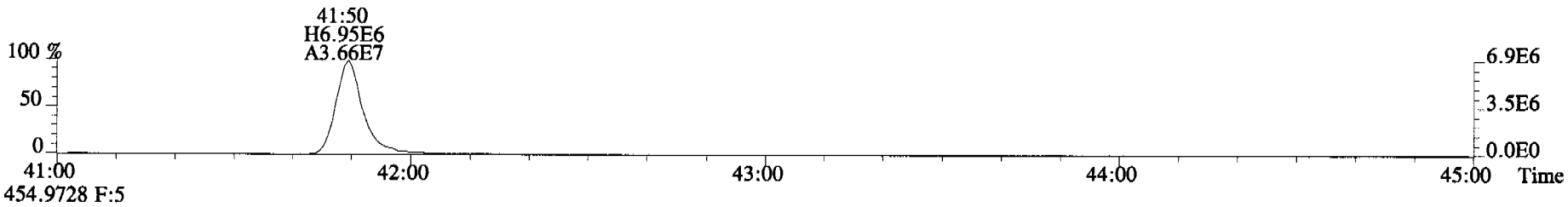
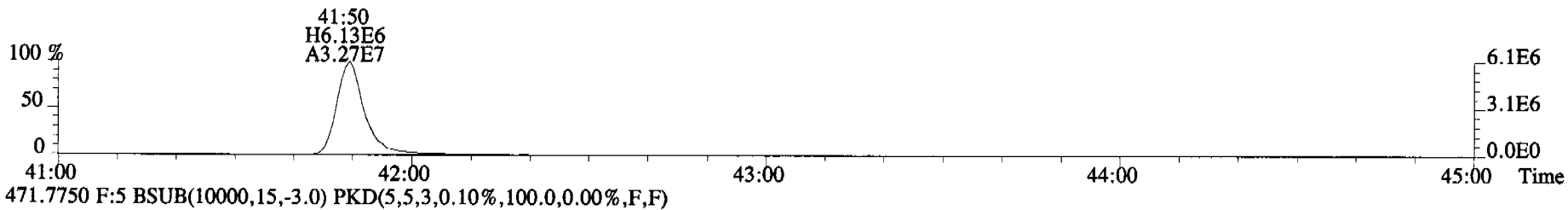
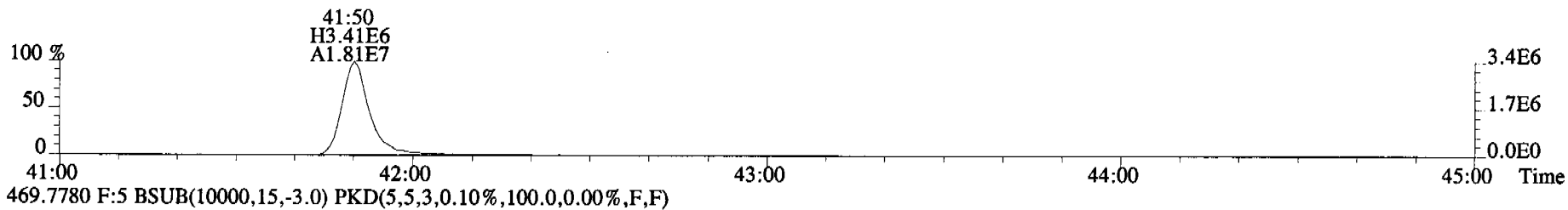
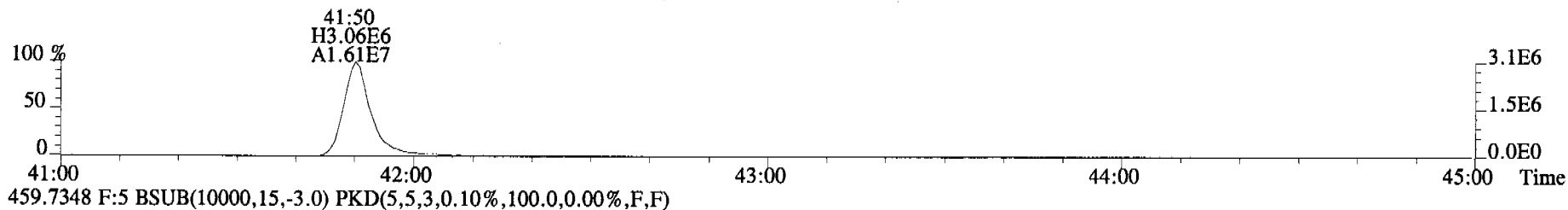
380.9760 F:3



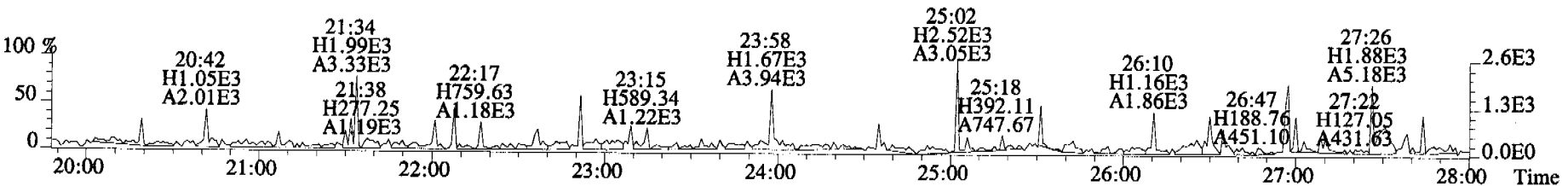
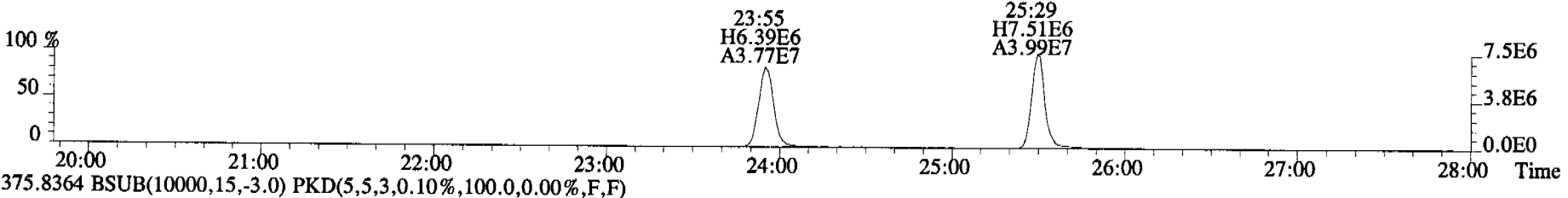
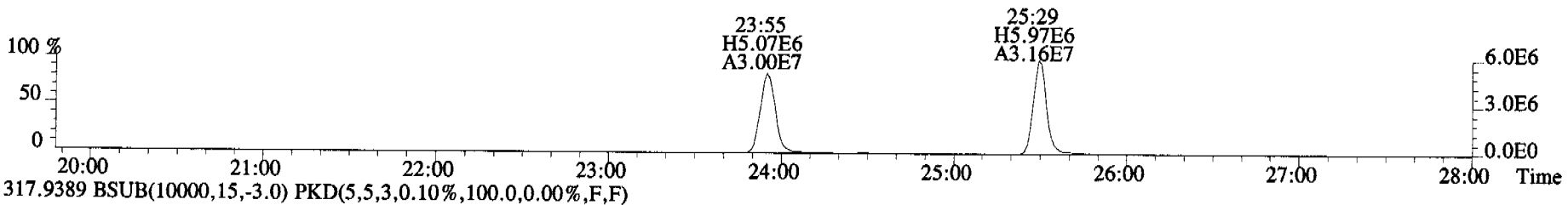
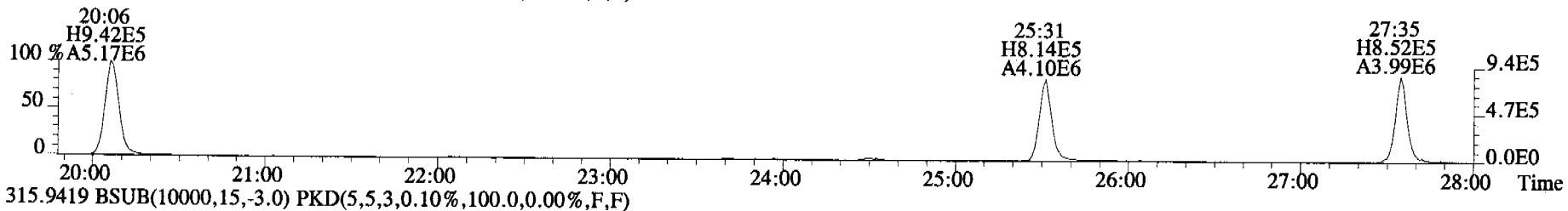
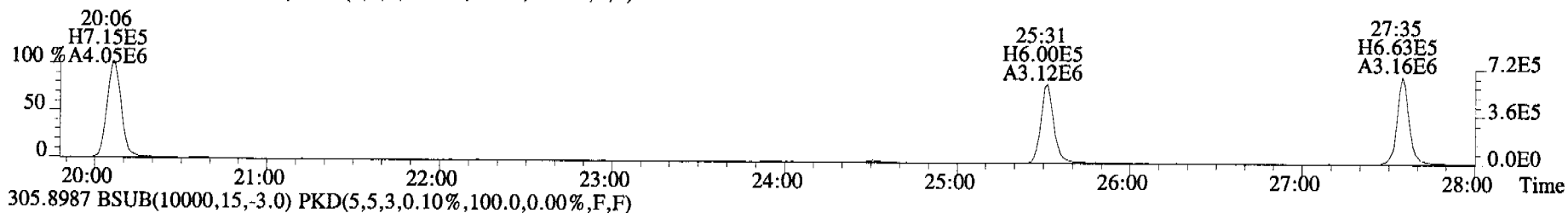
File:060920C2 #1-399 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



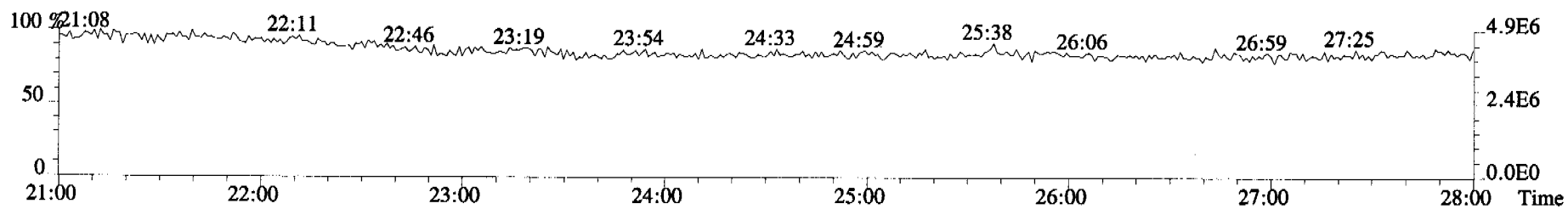
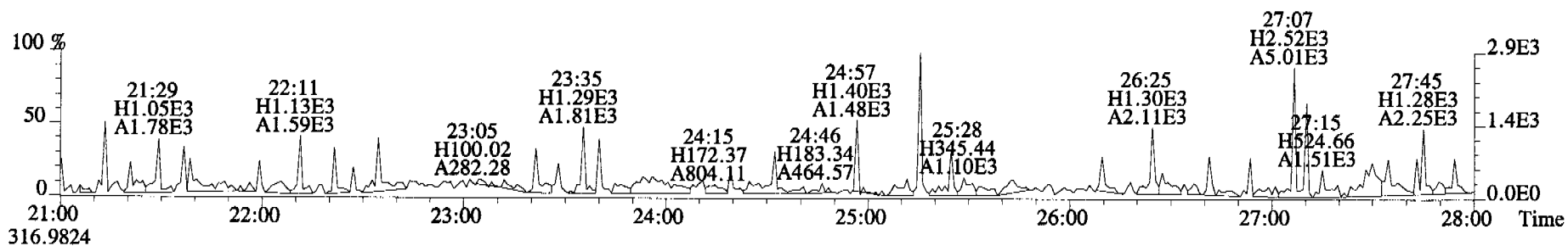
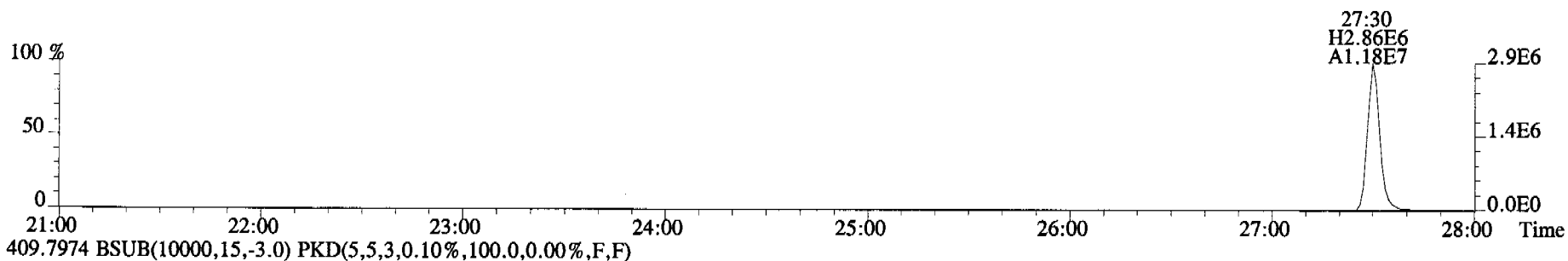
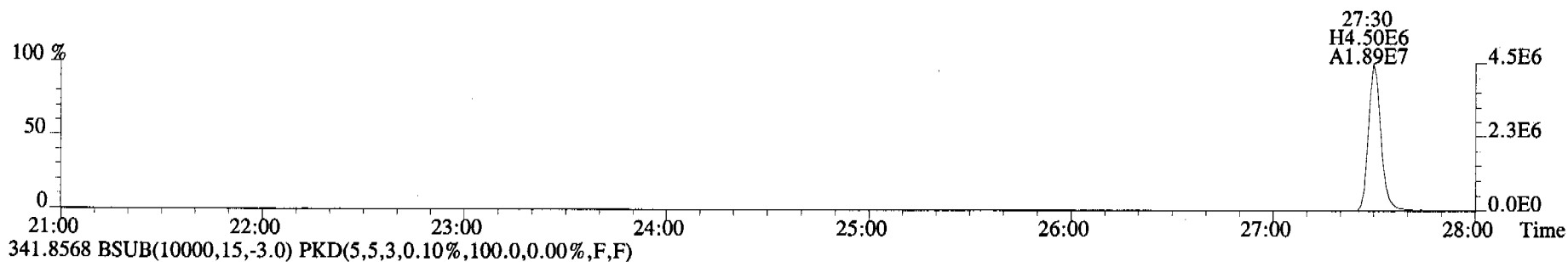
File:060920C2 #1-345 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

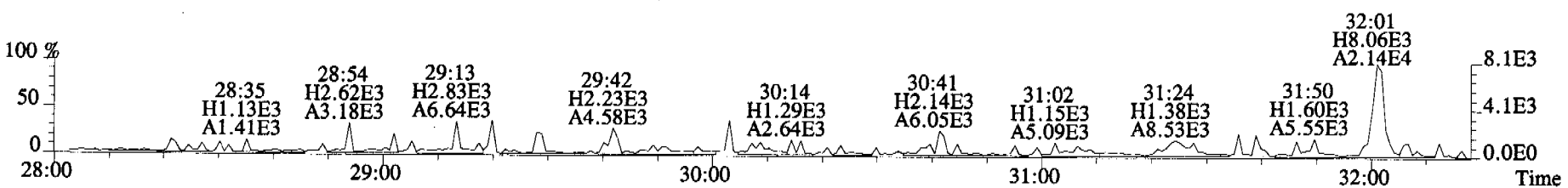
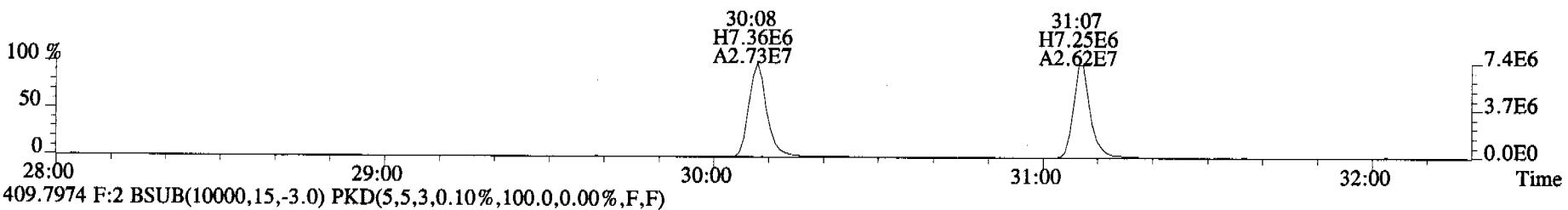
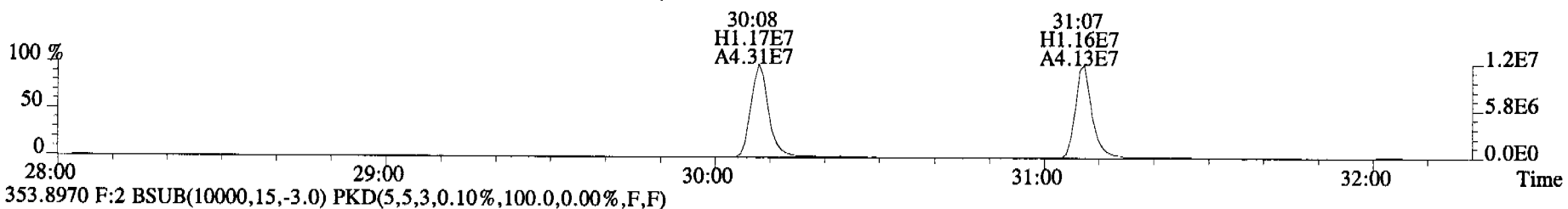
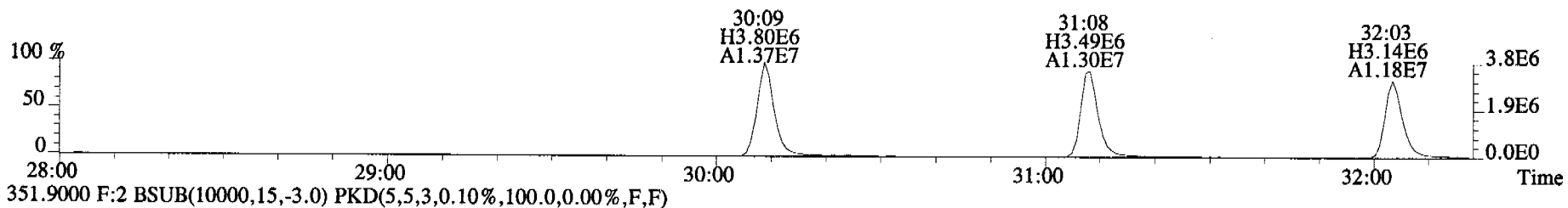
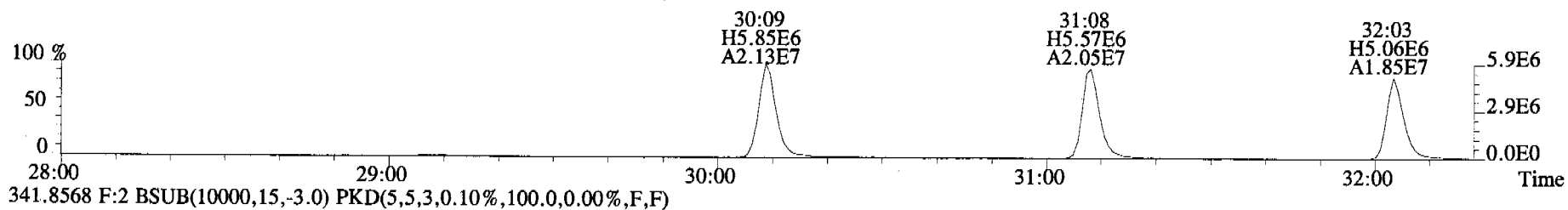


File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

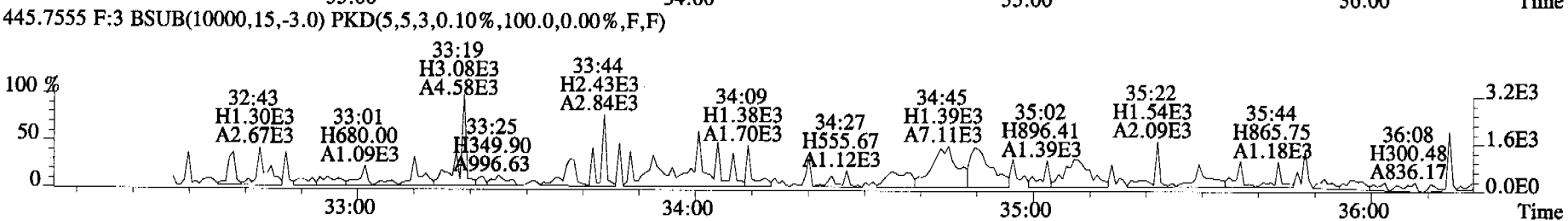
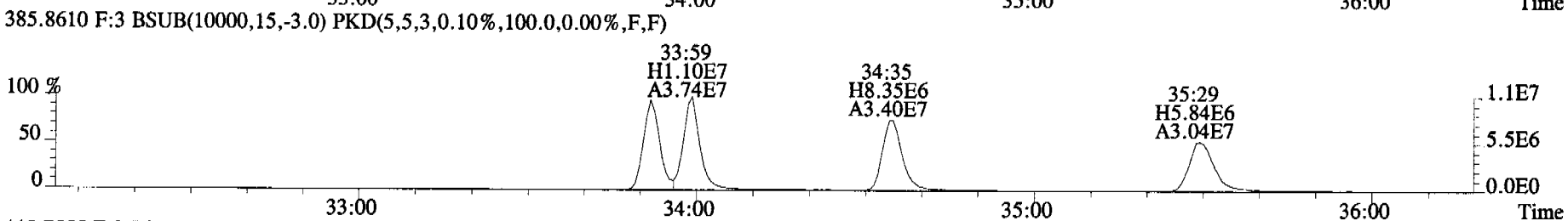
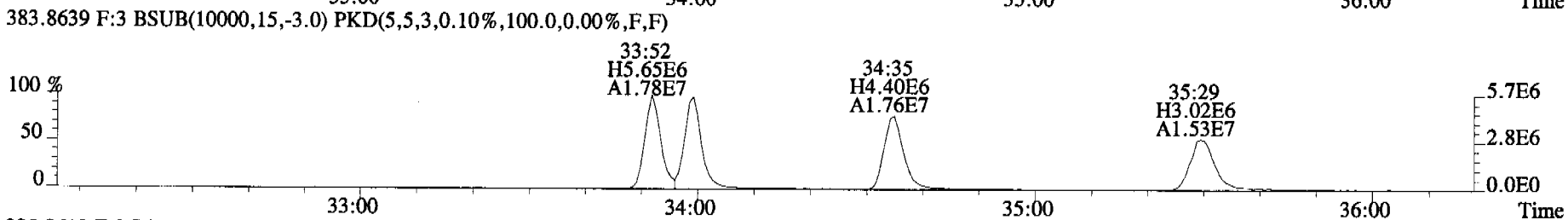
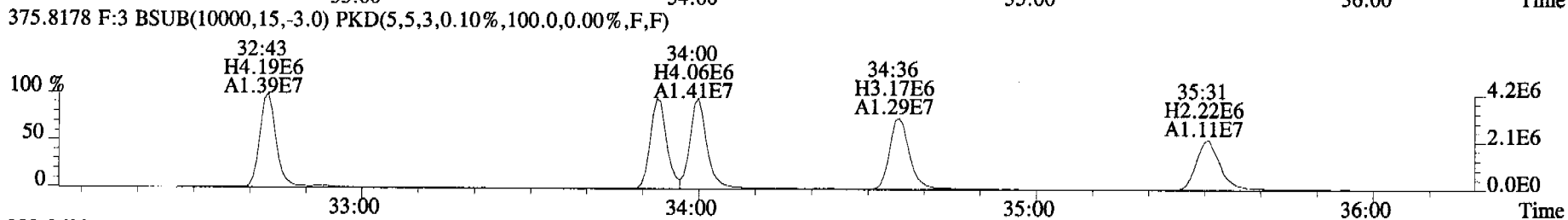
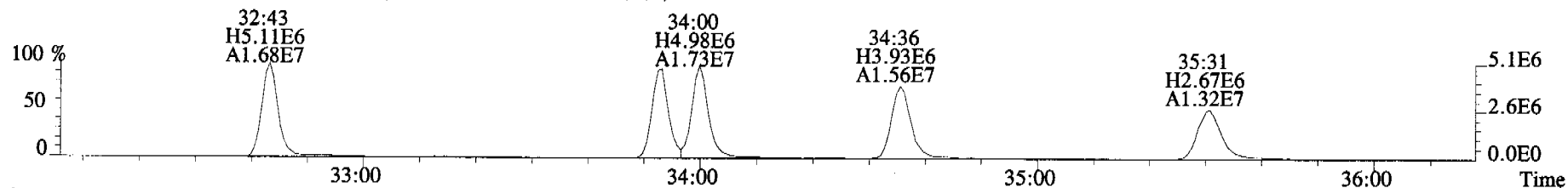




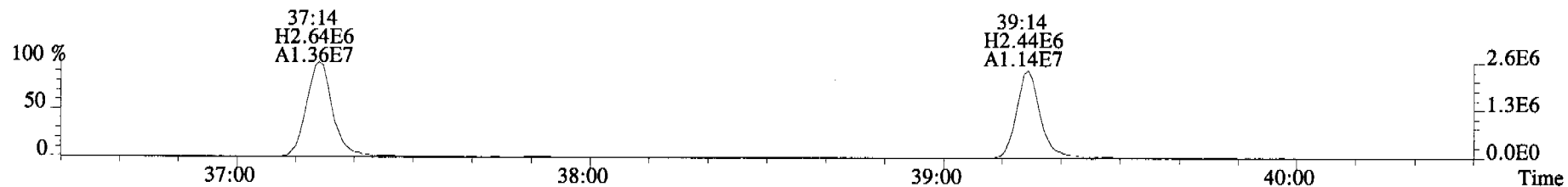
File:060920C2 #1-324 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



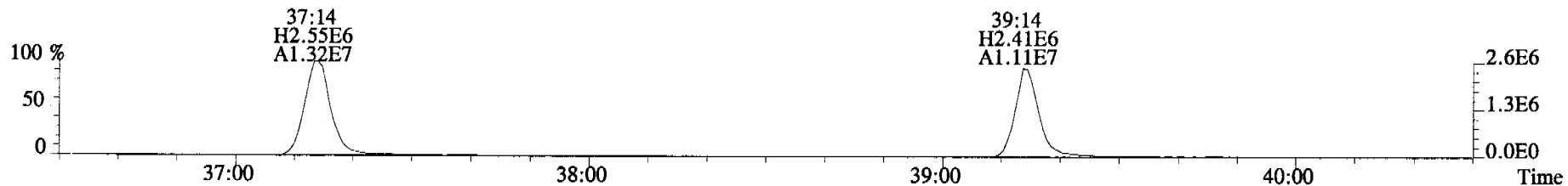
File:060920C2 #1-363 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



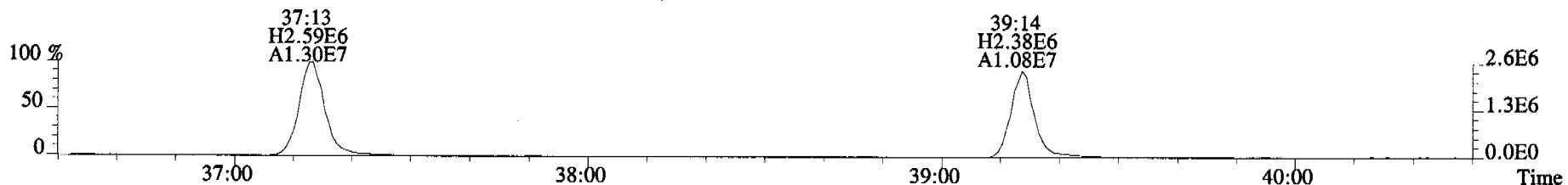
File:060920C2 #1-399 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



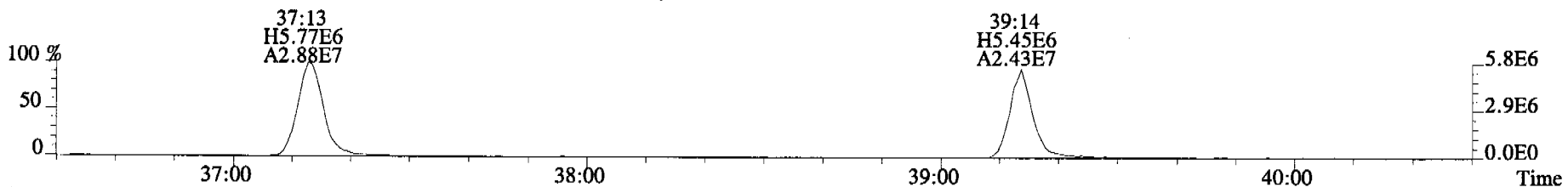
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



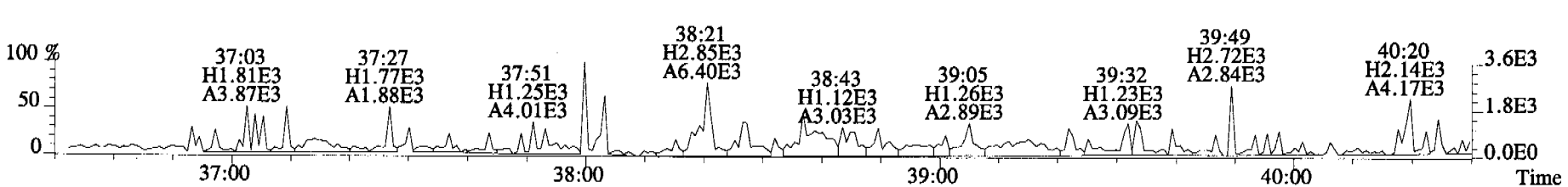
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



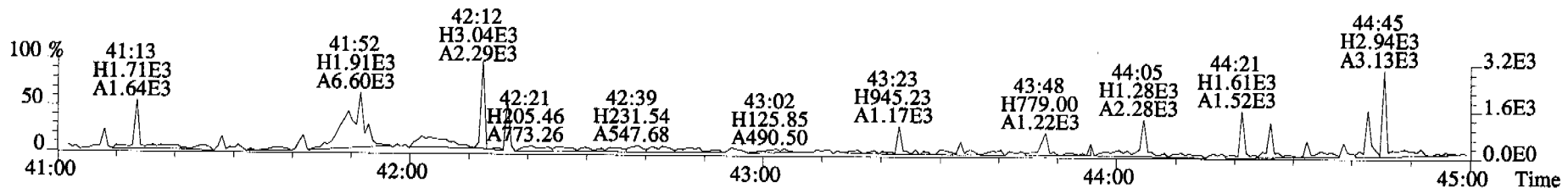
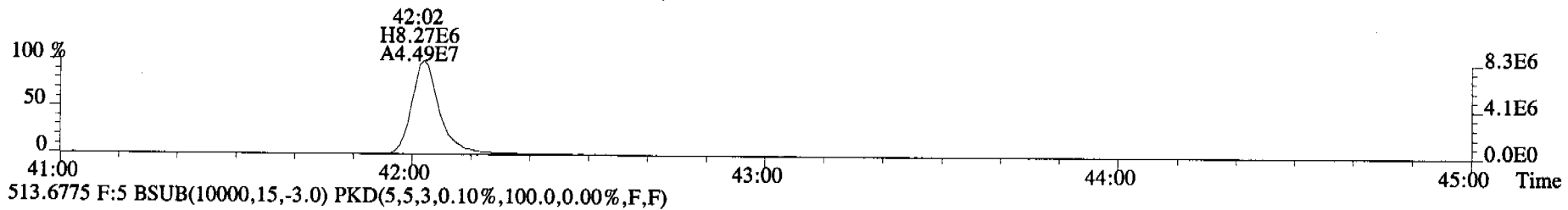
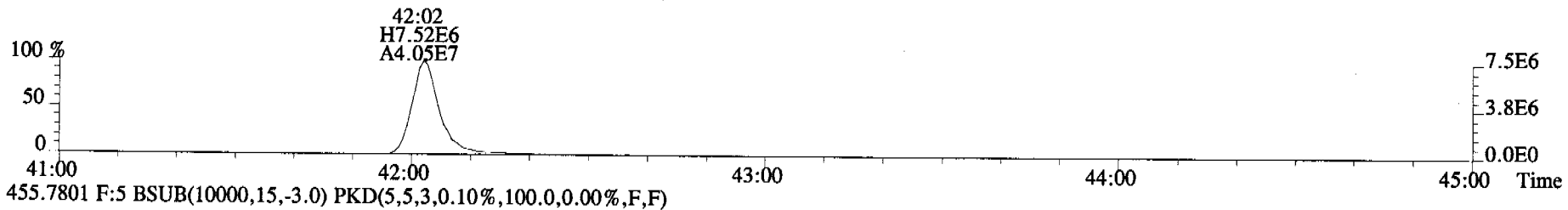
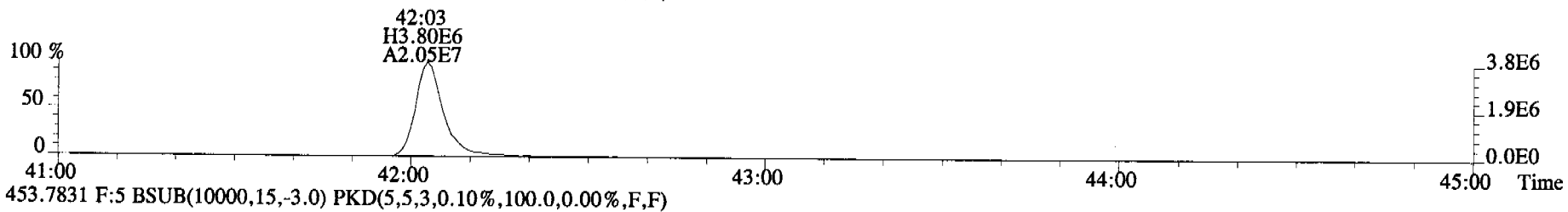
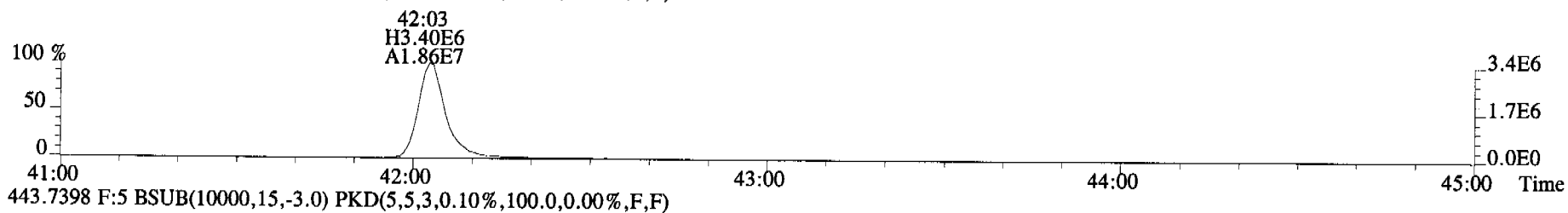
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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<br>FORMING<br>RATIO (1) | ION<br>ABUND.<br>RATIO | QC<br>LIMITS<br>(2) | Pass | CONC.<br>FOUND | CONC.<br>RANGE (3)<br>(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)<br>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<br>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<br>FORMING<br>RATIO (1) | ION<br>ABUND.<br>RATIO | QC<br>LIMITS<br>(2) | Pass | CONC.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL) |  |
|-------------------------|-------------------------------|------------------------|---------------------|------|----------------|-------------------------------|--|
| 13C-2,3,7,8-TCDD        | M/M+2                         | 0.80                   | 0.65-0.89           | y    | 96.9           | 82.0 - 121.0<br>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<br>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<br>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<br>RT | ISOMERS                 | ABSOLUTE<br>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           |
|-----------------|---------------------|-------|---------------|
|                 | 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<br>REFERENCE | RRT   | RRT<br>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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(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 |      |       |     |    |                     |        |        |      |       |    |

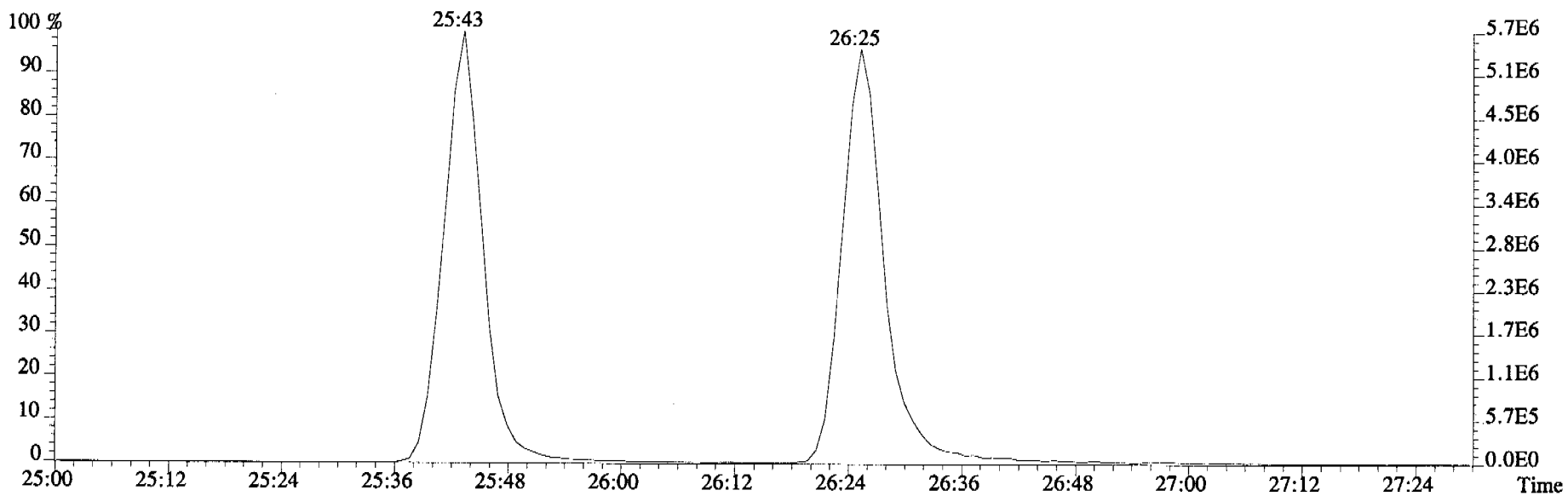
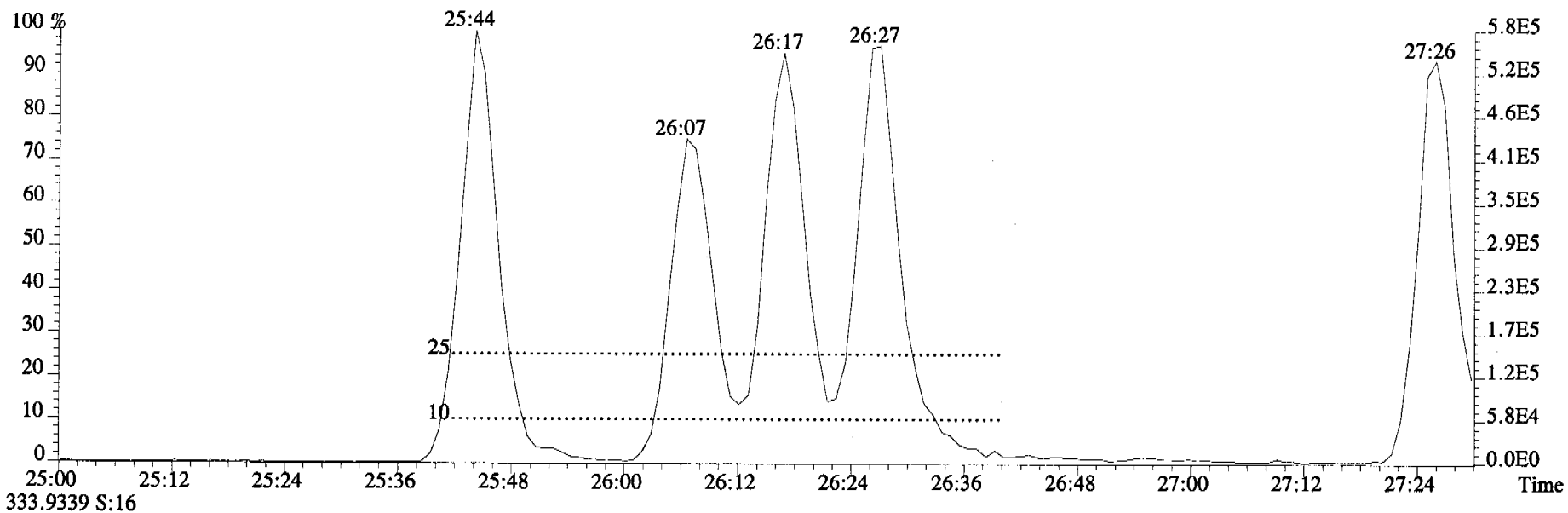
Integrations Reviewed  
 by by  
 Analyst: M Analyst: \_\_\_\_\_

Date: 9/21/06 Date: \_\_\_\_\_

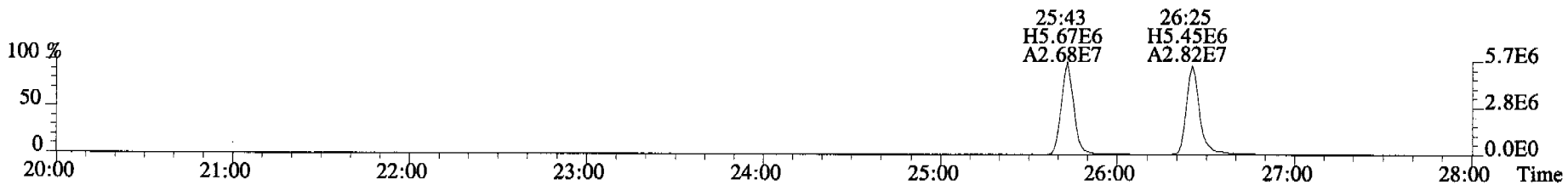
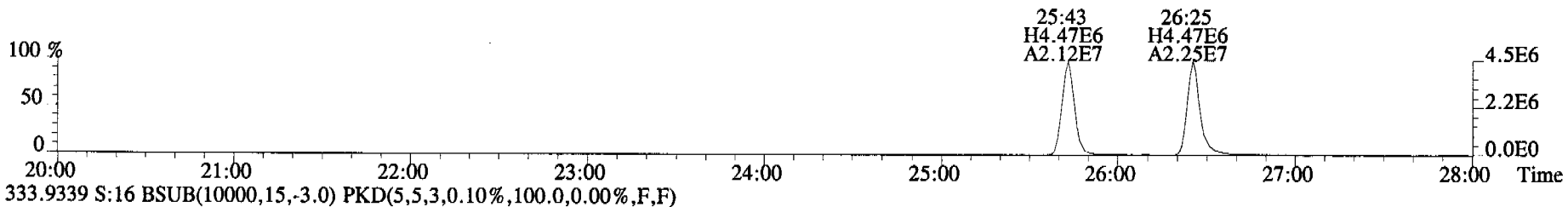
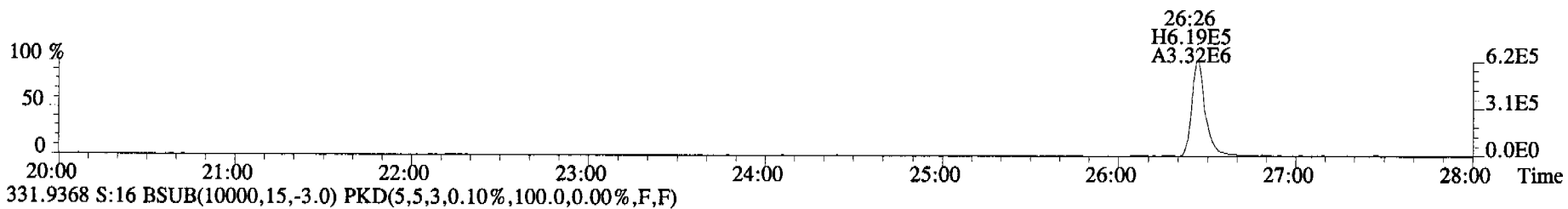
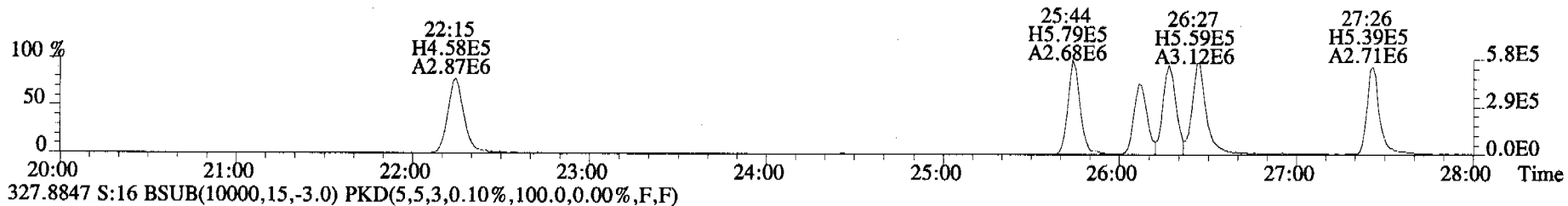
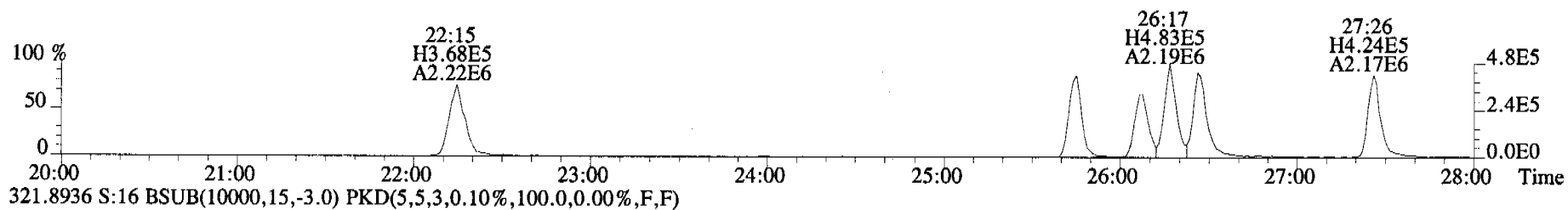
Alta Analytical Laboratory - Injection Log Run file: 060920C2 Instrument ID: VG-5 GC Column ID: db-5

| Data file | S# | Sample ID      | Analyst | Acq date  | Acq time | CCal         | ECal         |
|-----------|----|----------------|---------|-----------|----------|--------------|--------------|
| 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 |

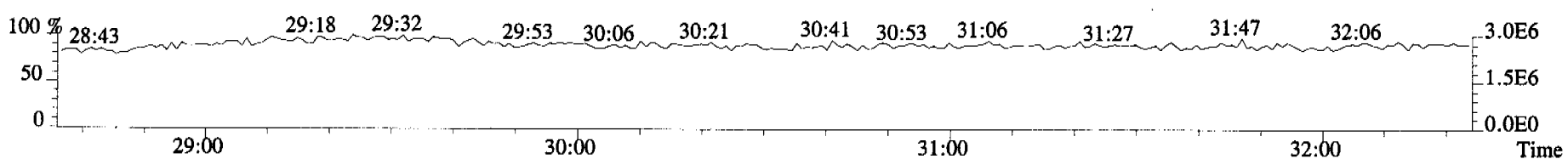
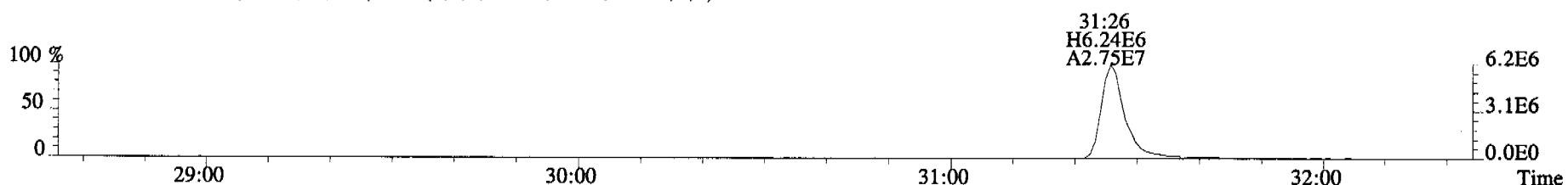
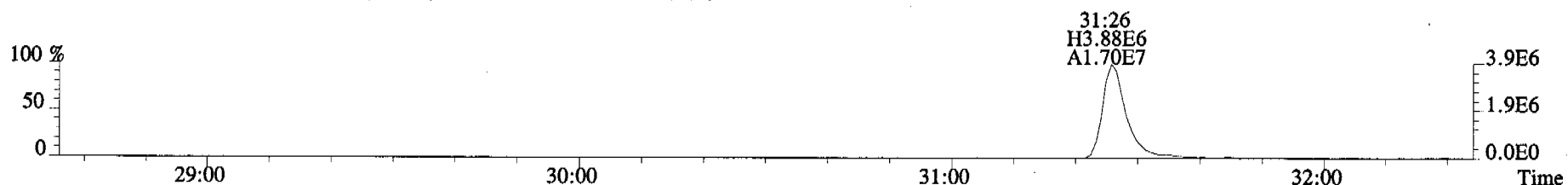
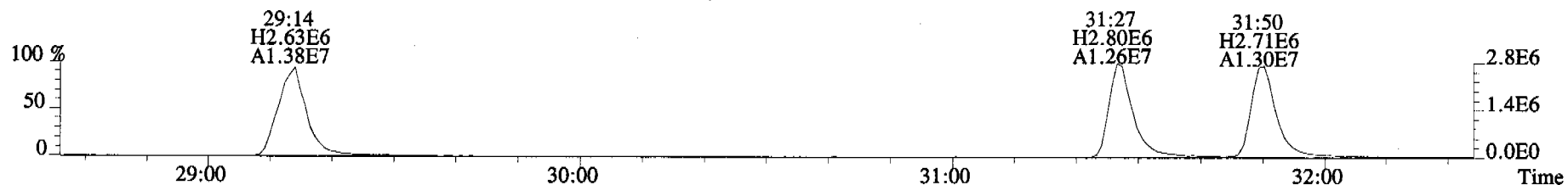
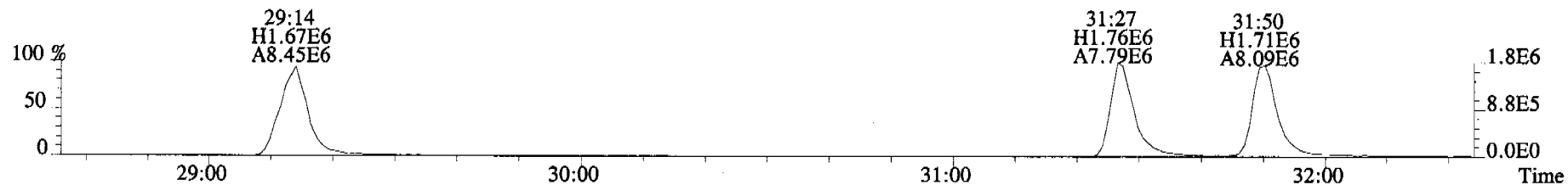
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
321.8936 S:16



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

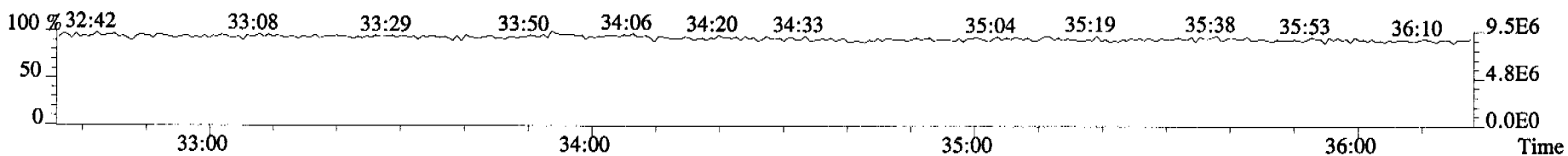
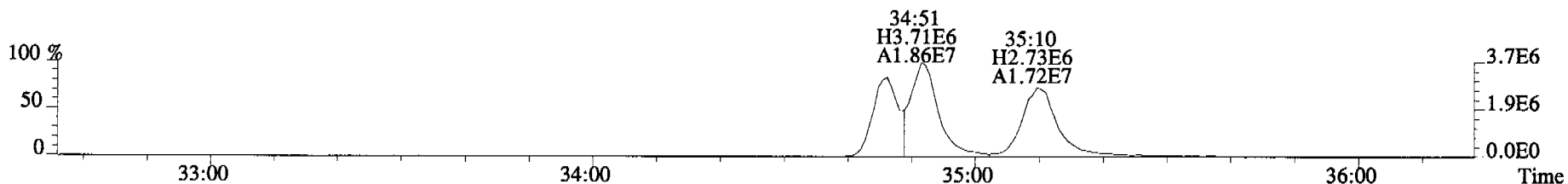
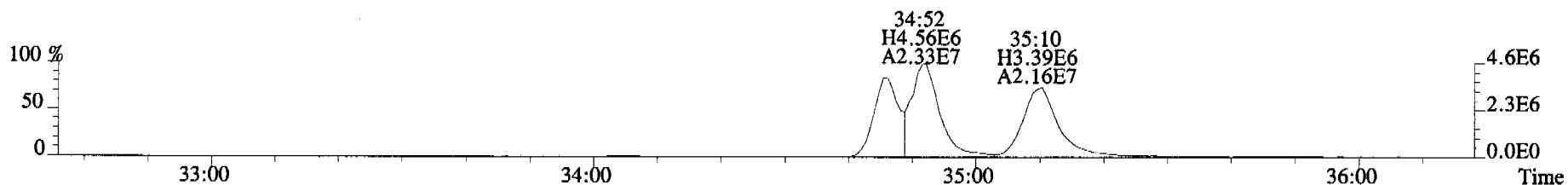
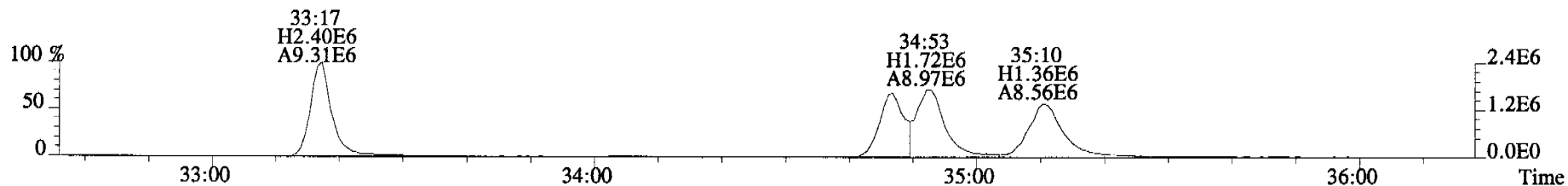
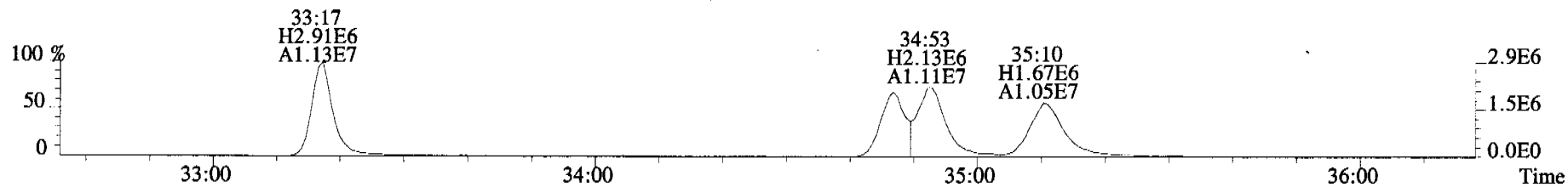


File:060920C2 #1-324 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
353.8576 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

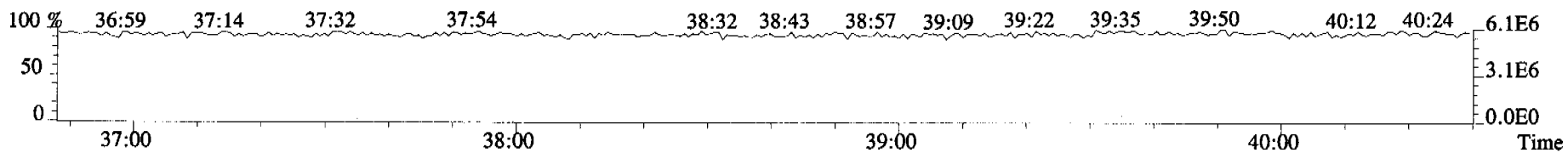
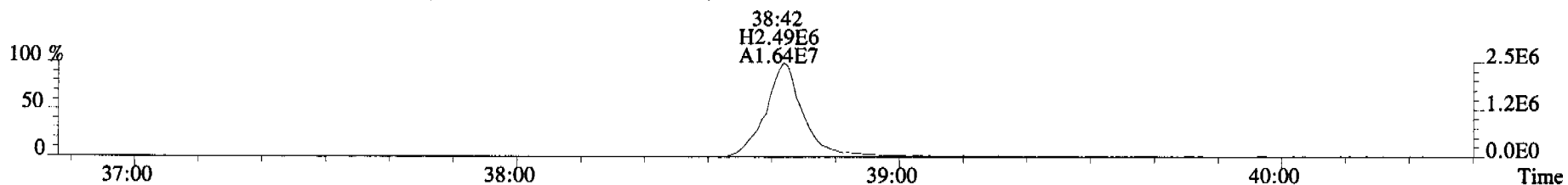
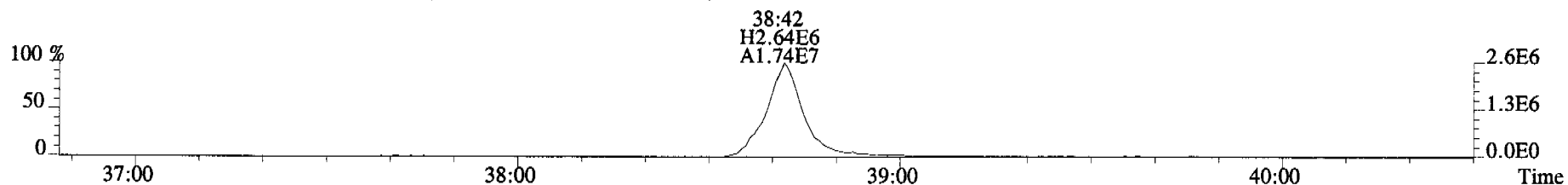
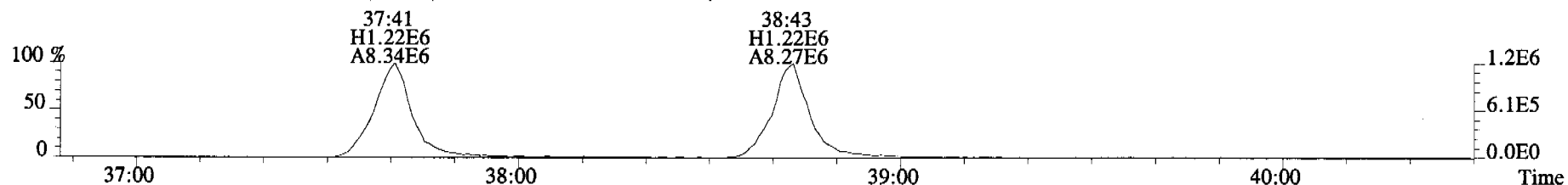
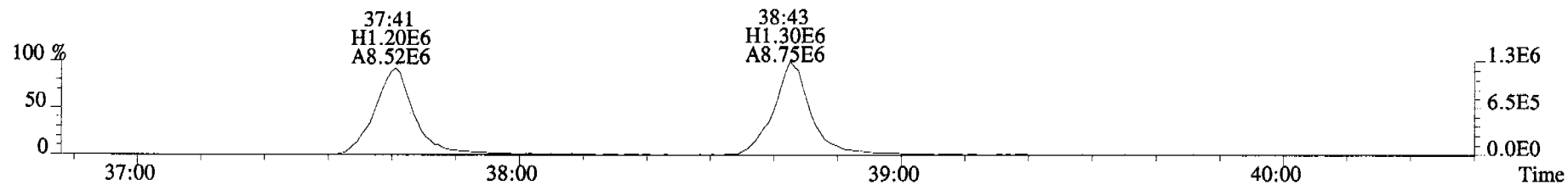




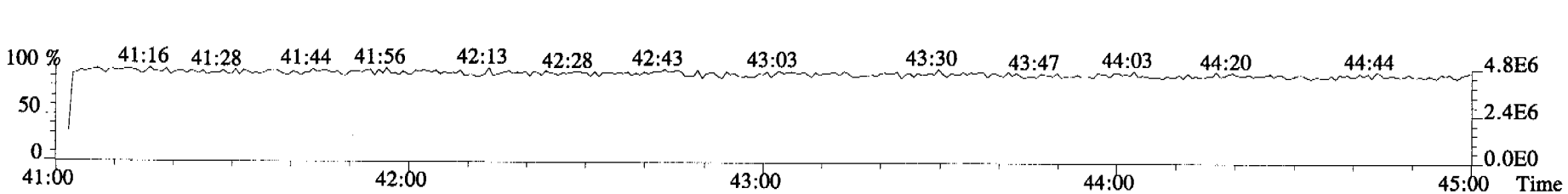
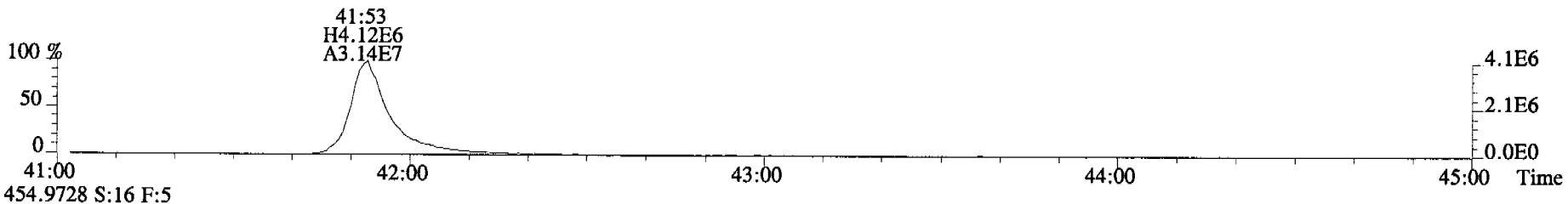
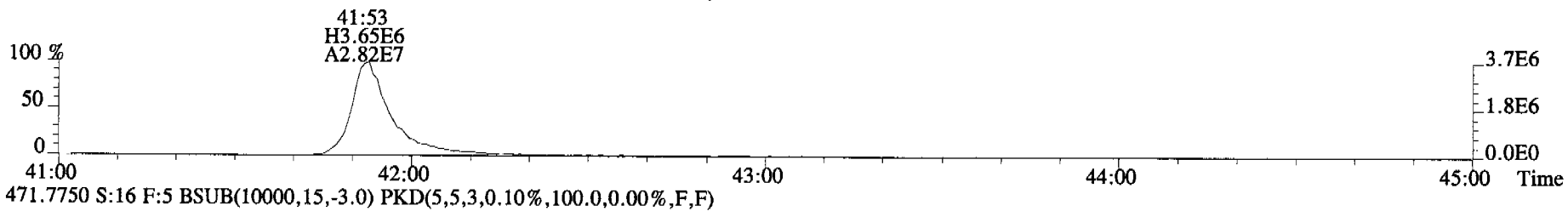
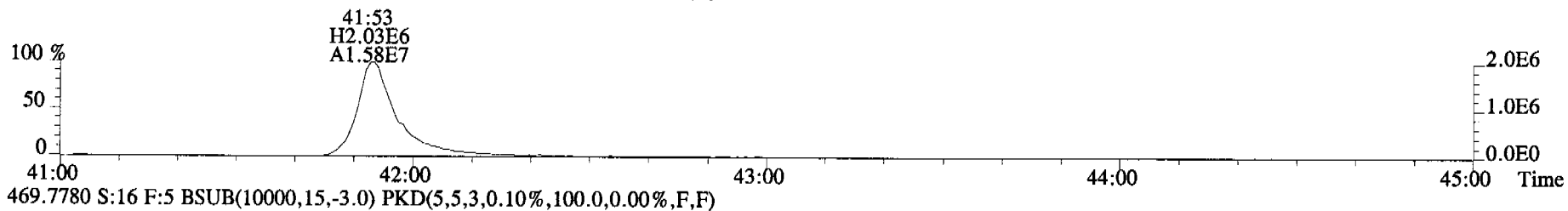
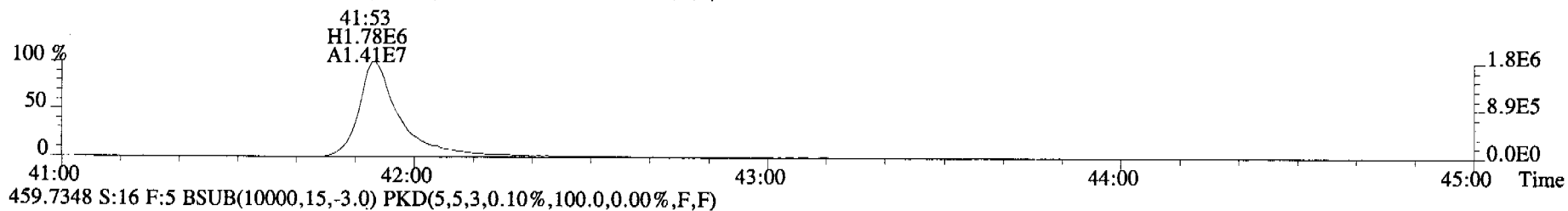
File:060920C2 #1-363 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



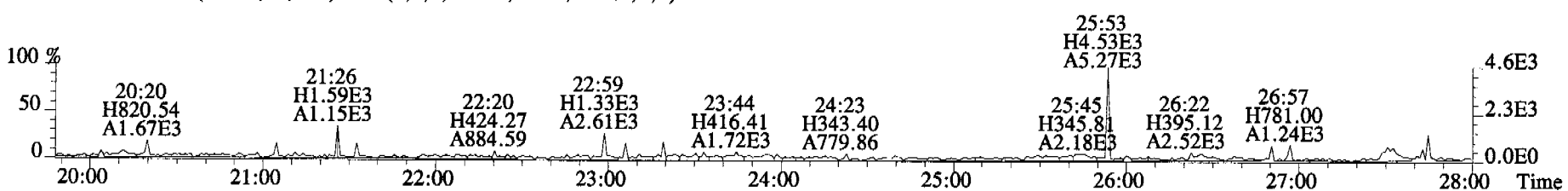
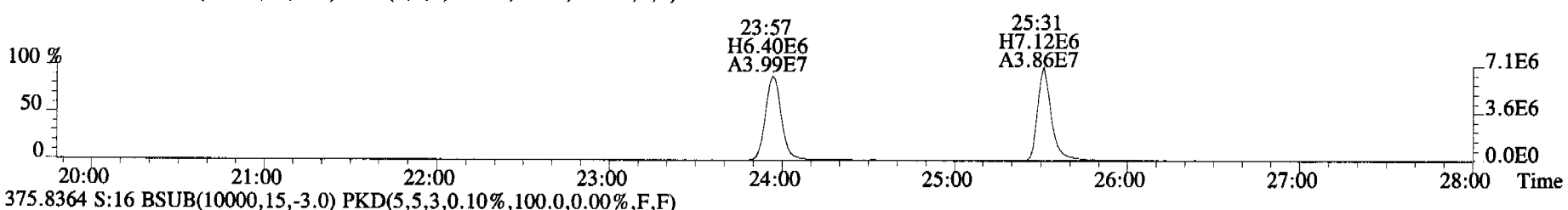
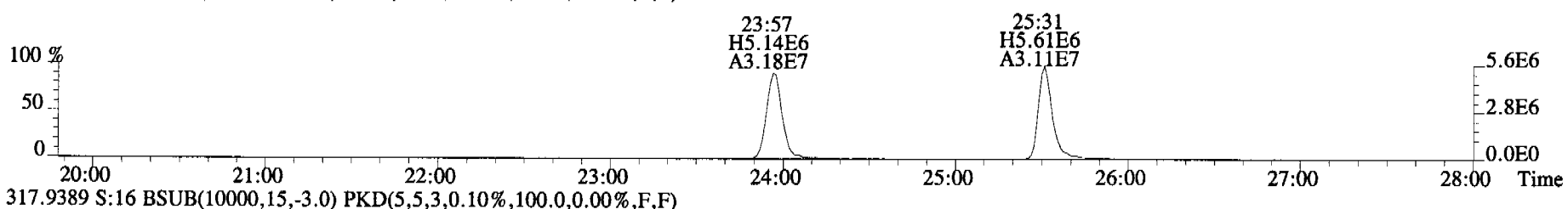
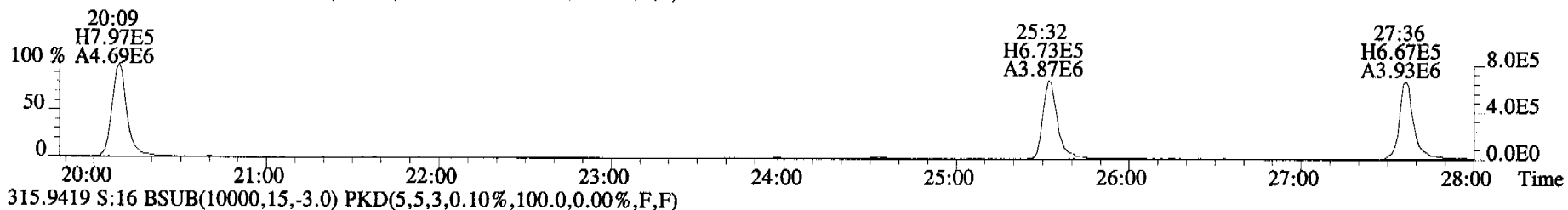
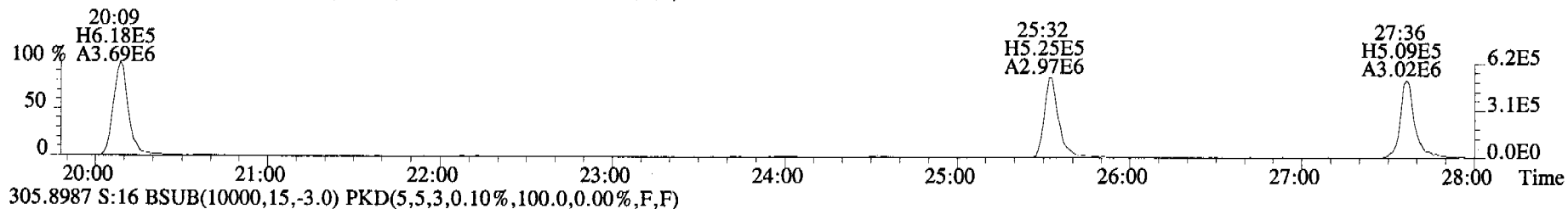
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



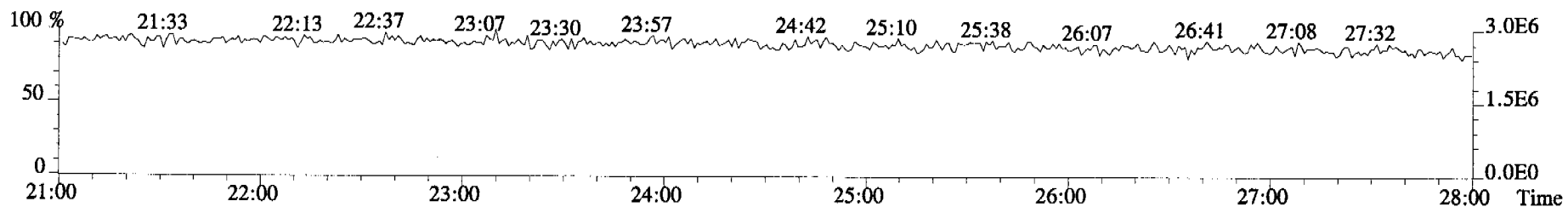
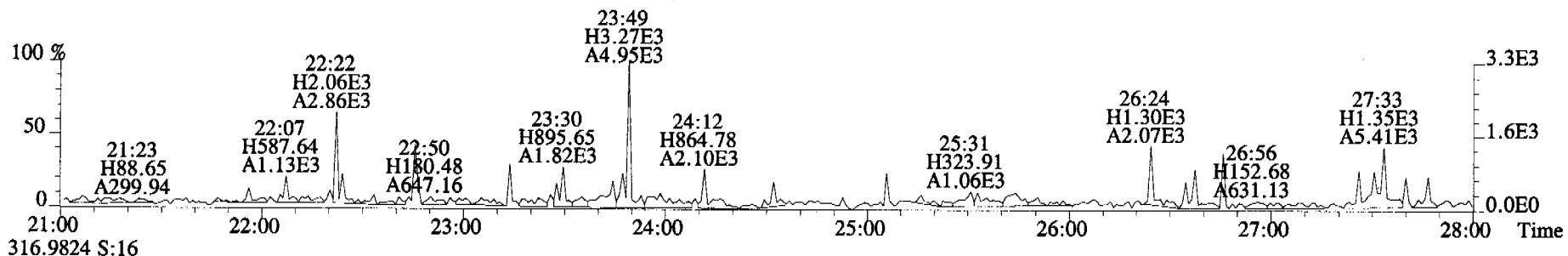
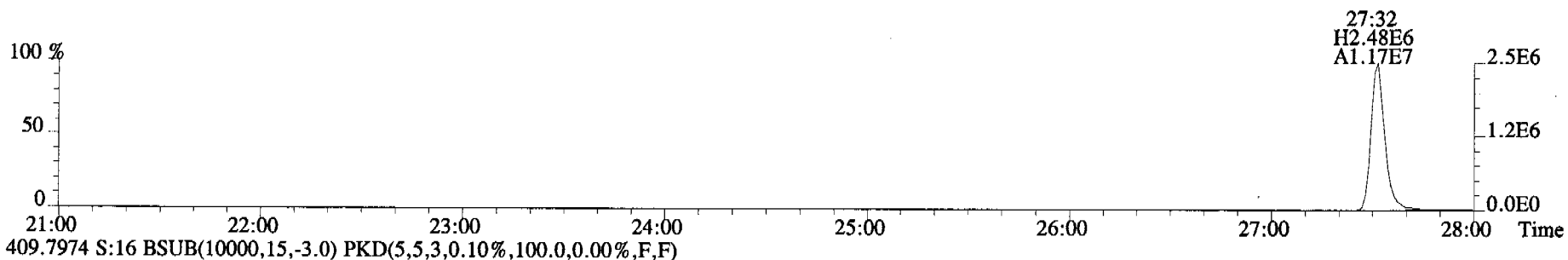
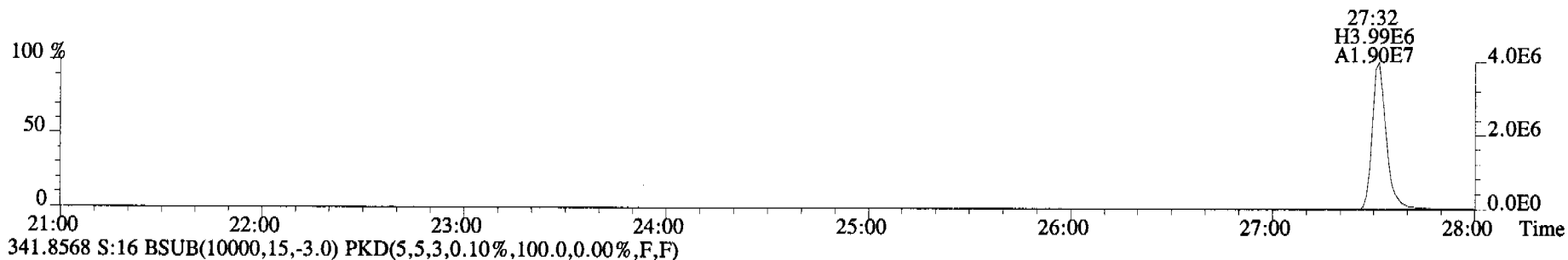
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



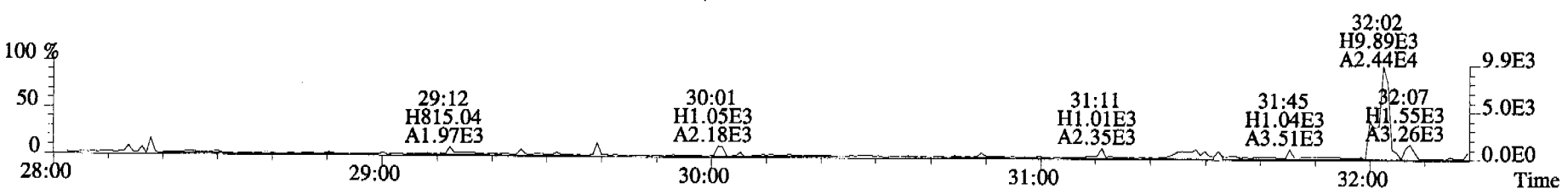
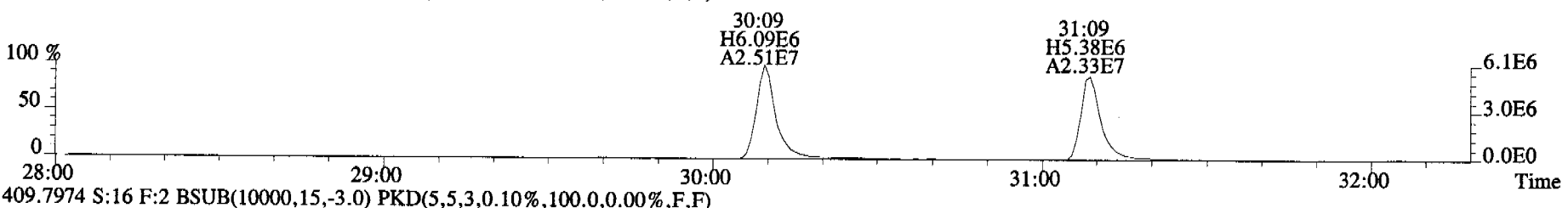
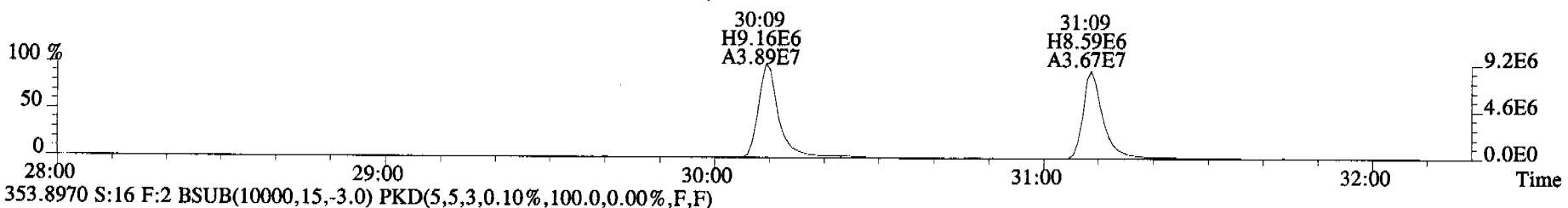
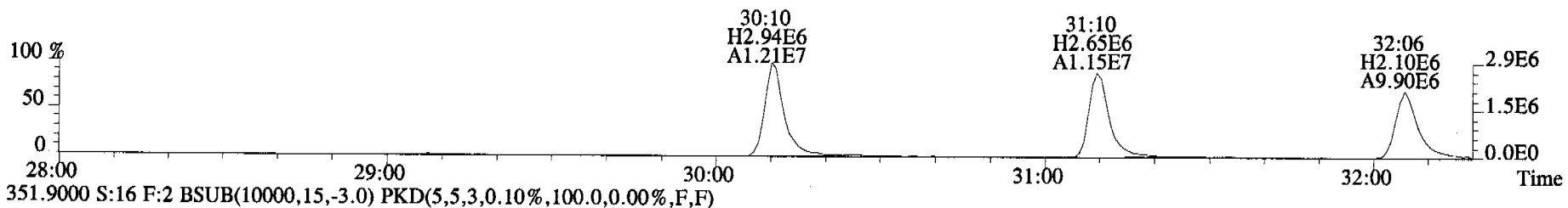
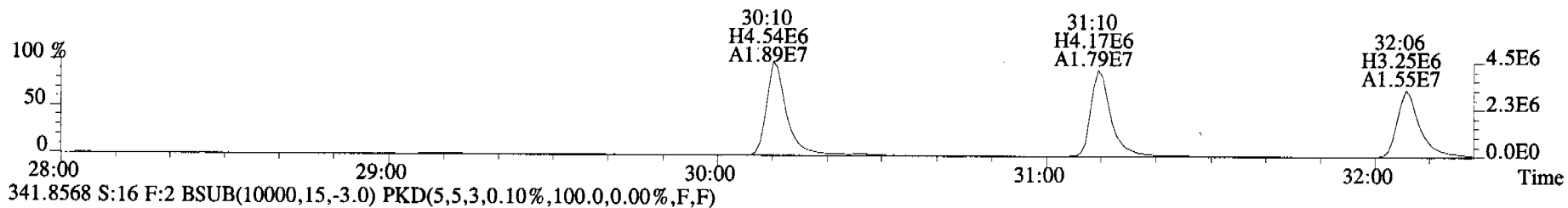
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



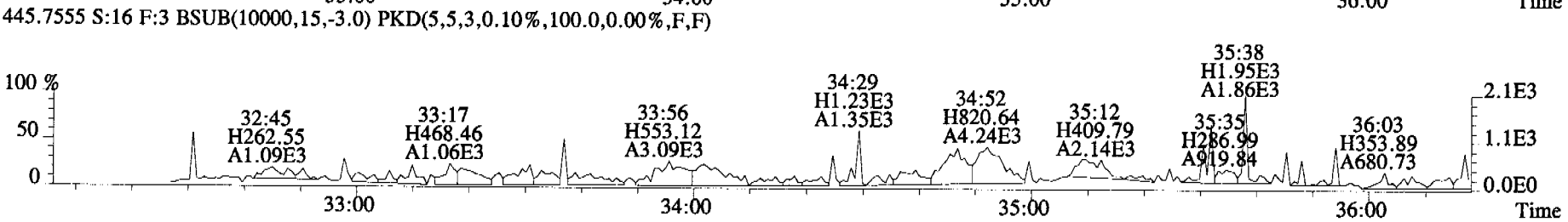
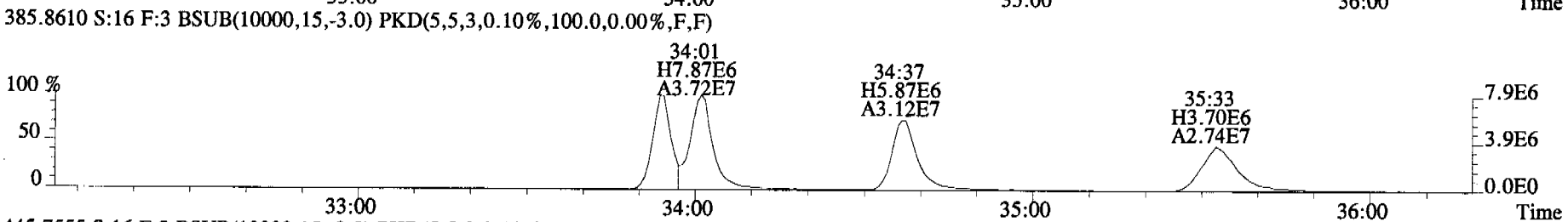
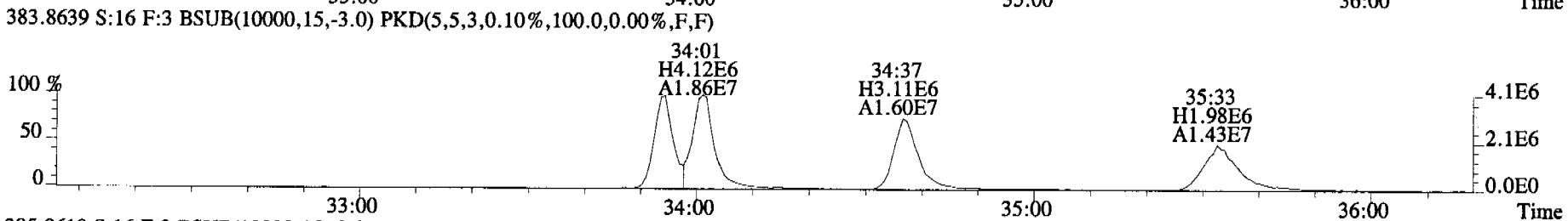
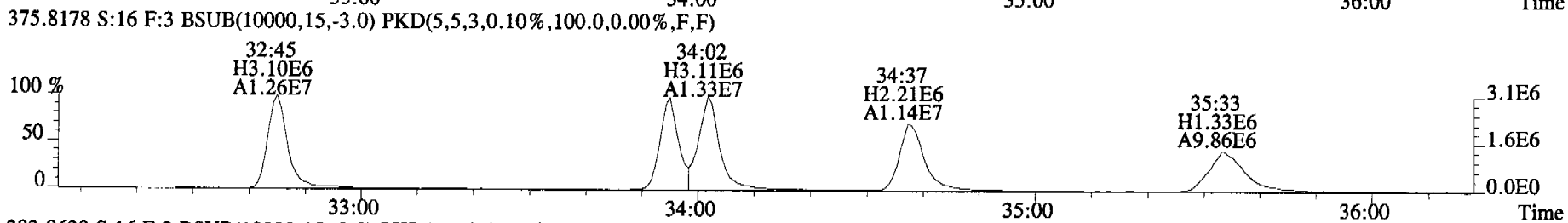
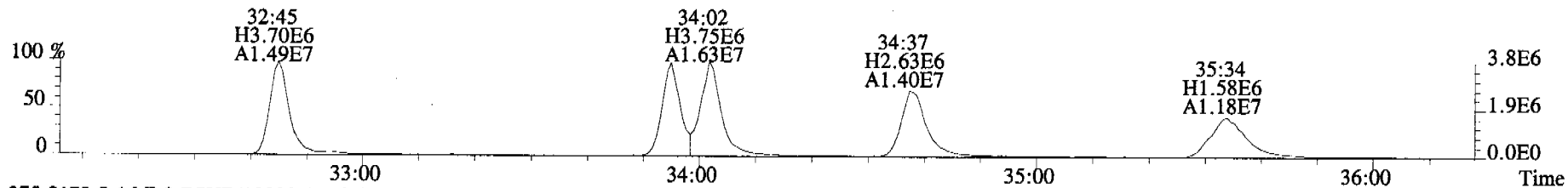
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



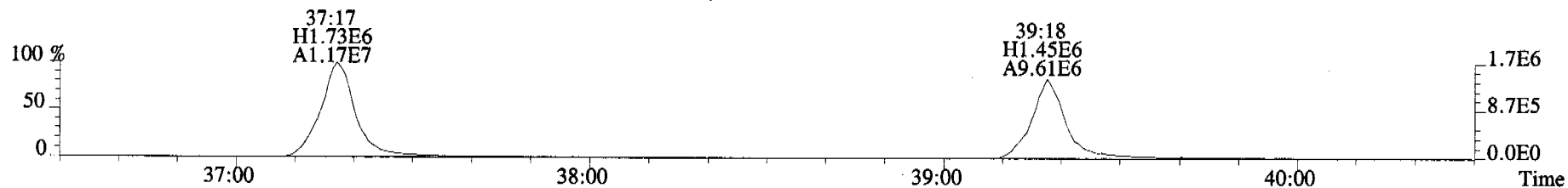
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



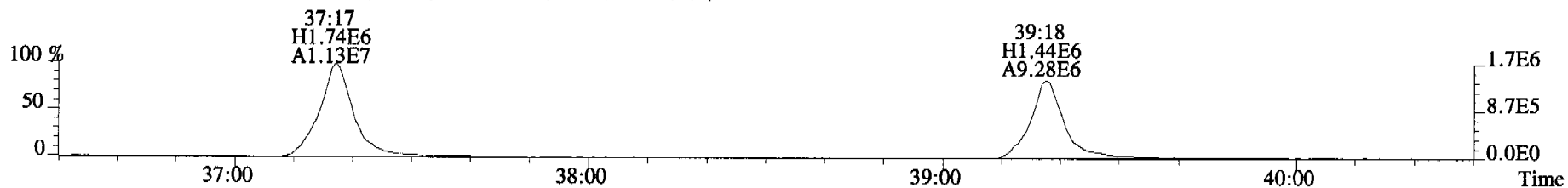
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 373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



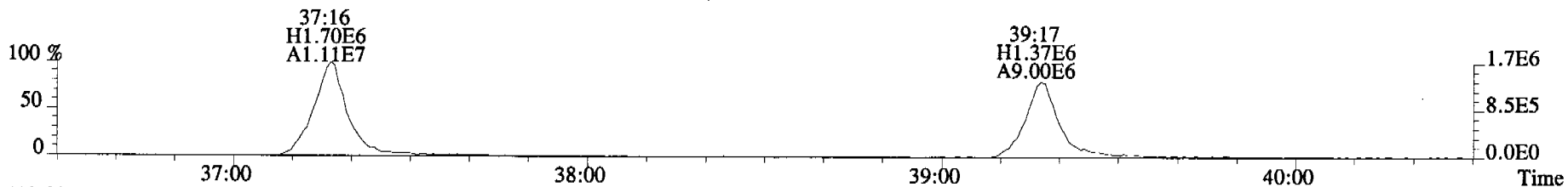
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



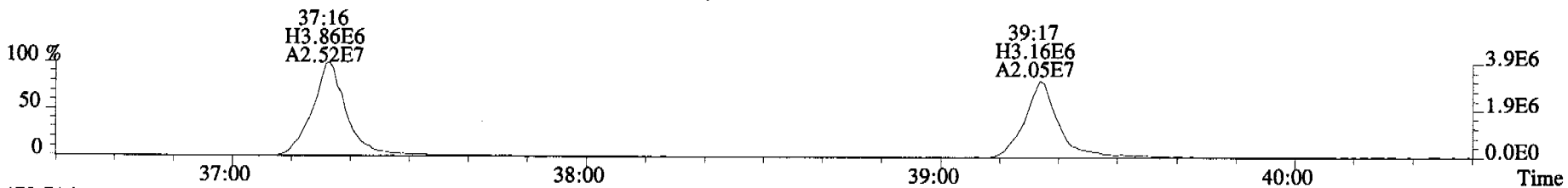
409.7788 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



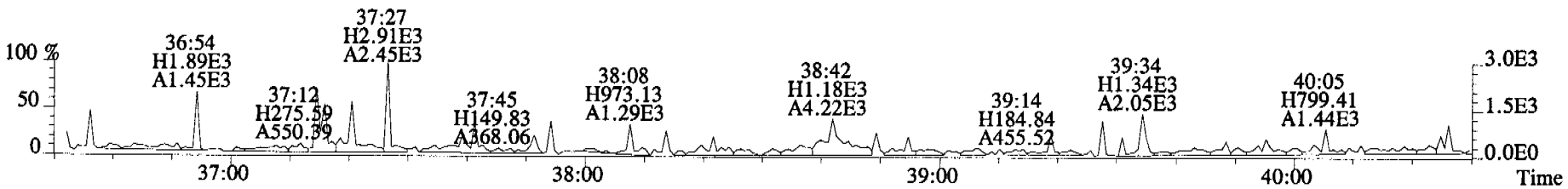
417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

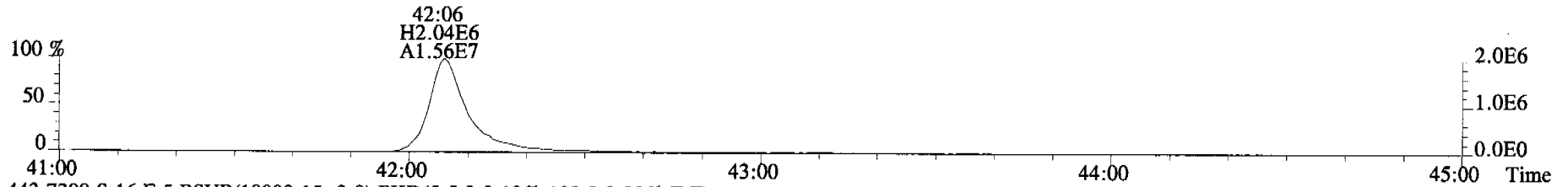


479.7165 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

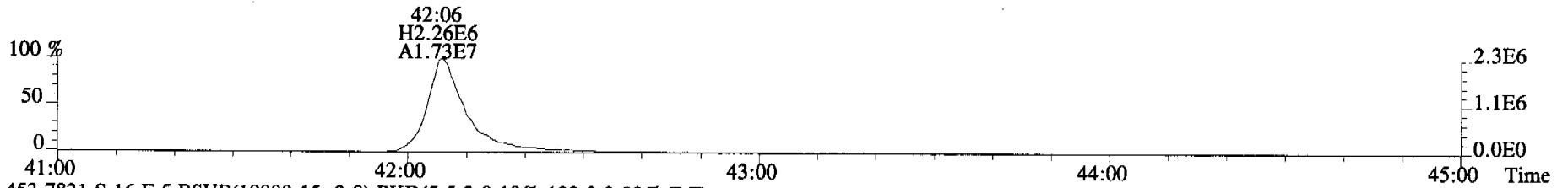




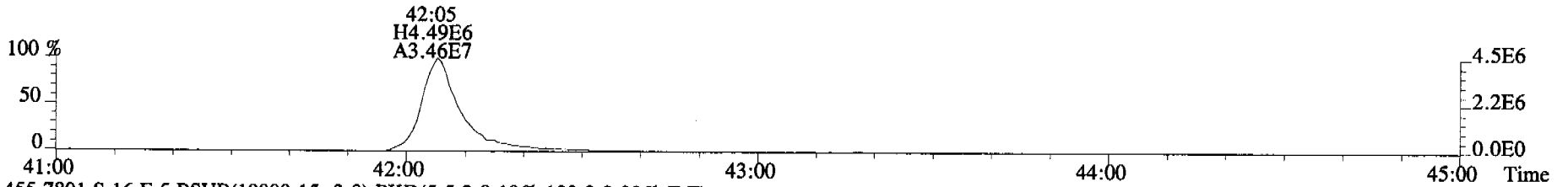
File:060920C2 #1-345 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



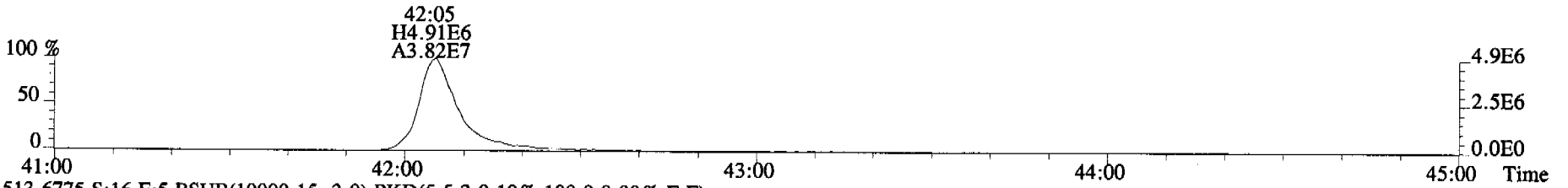
443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



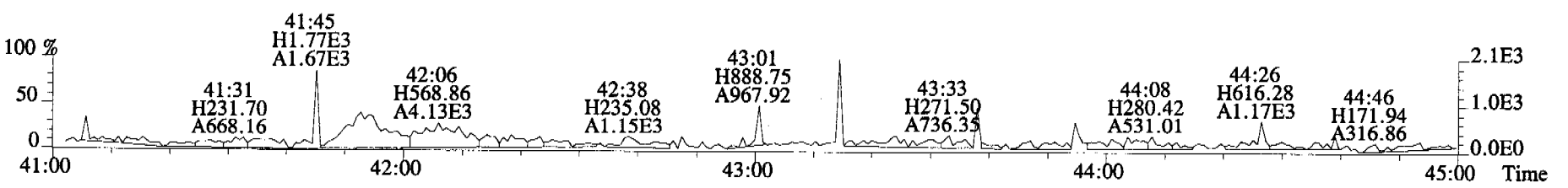
453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

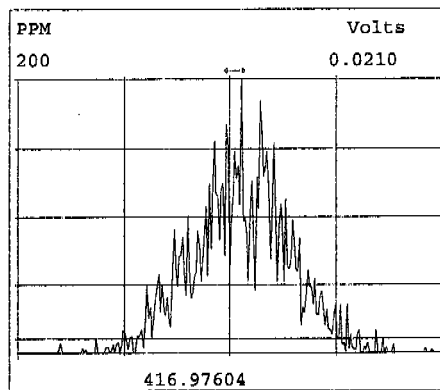
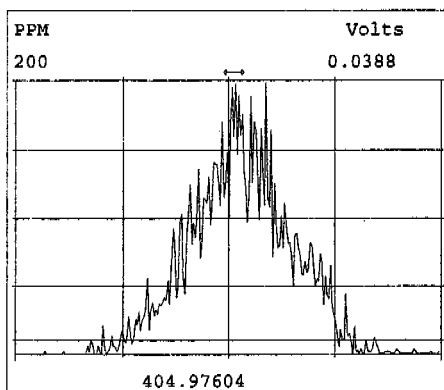
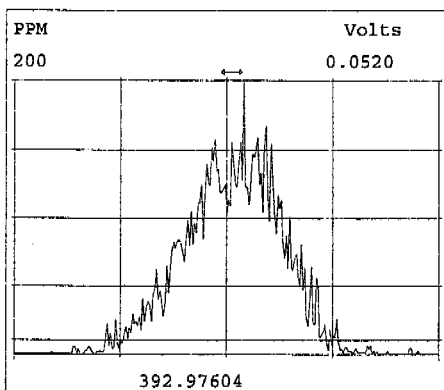
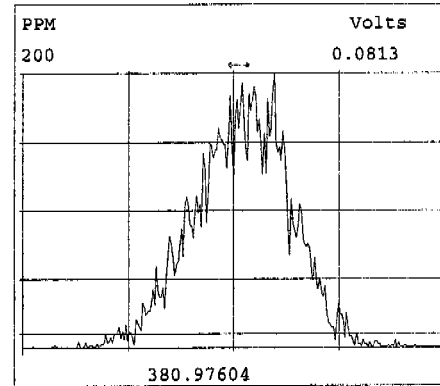
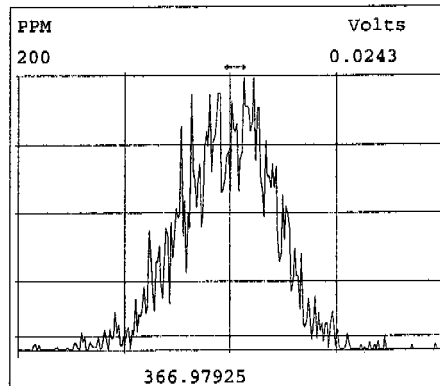
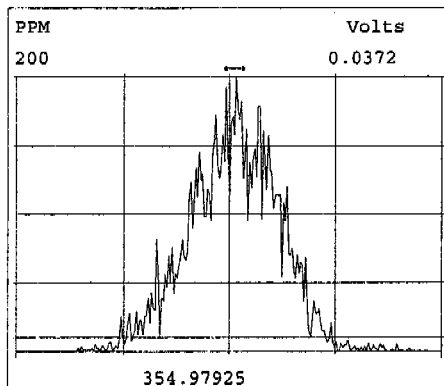
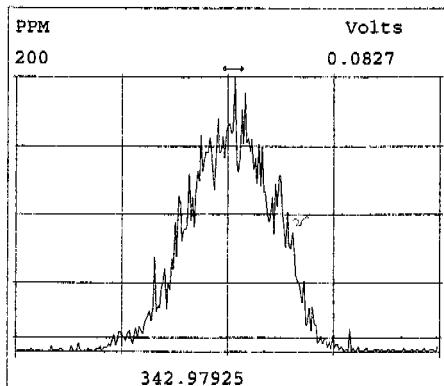
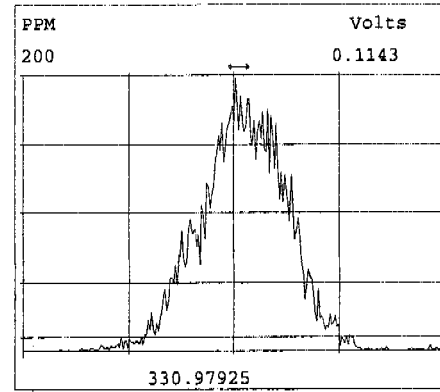
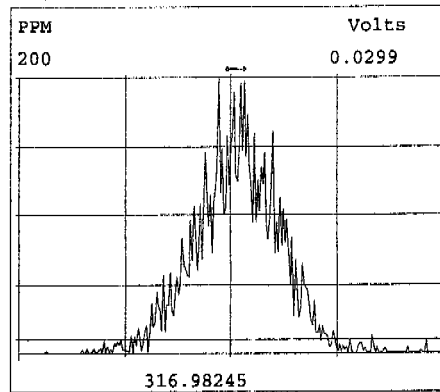
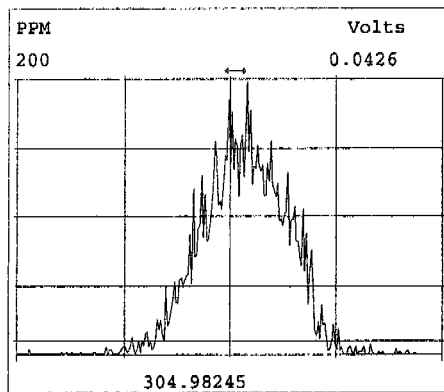
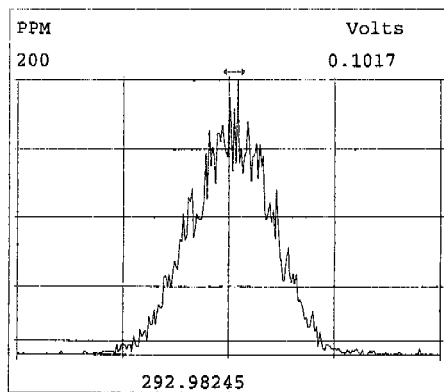


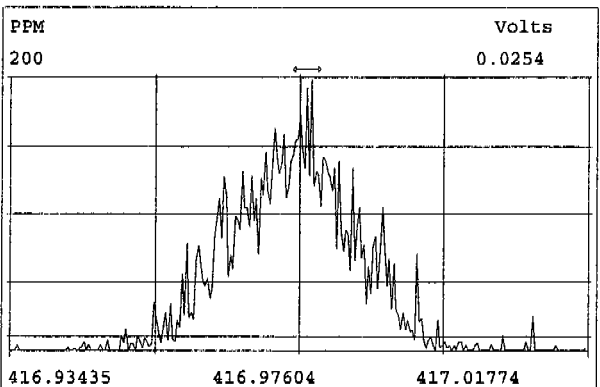
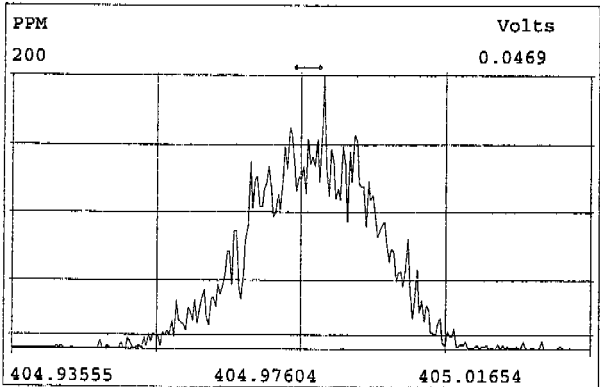
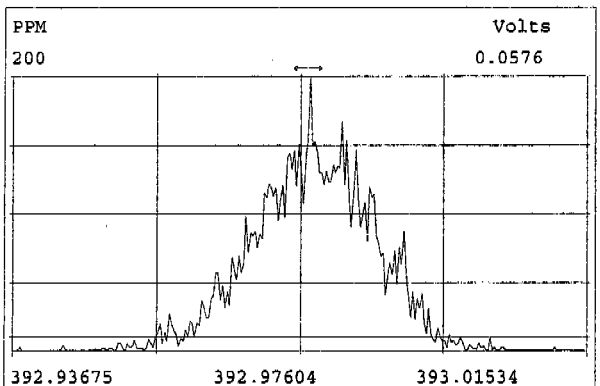
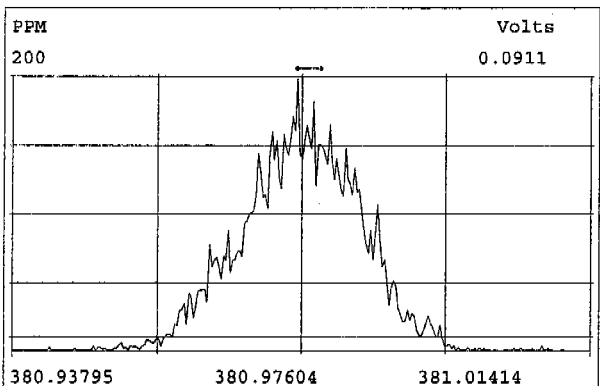
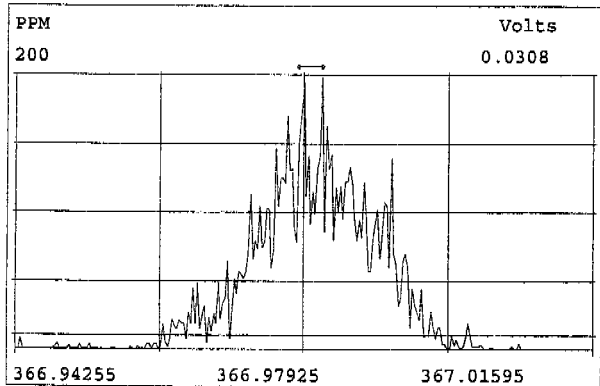
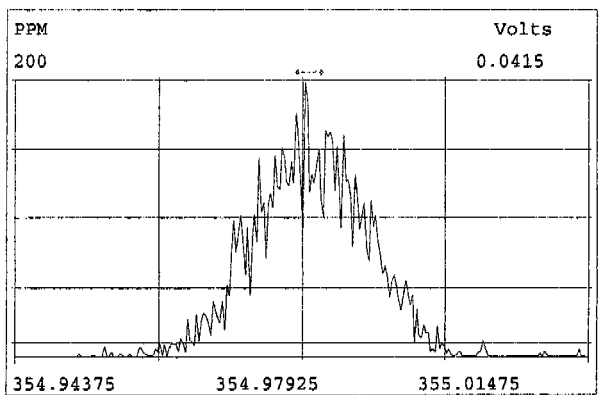
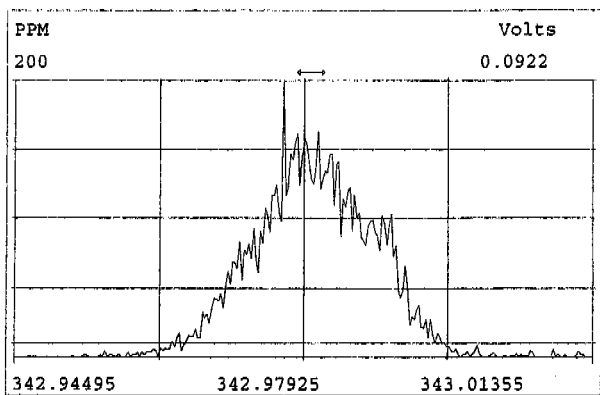
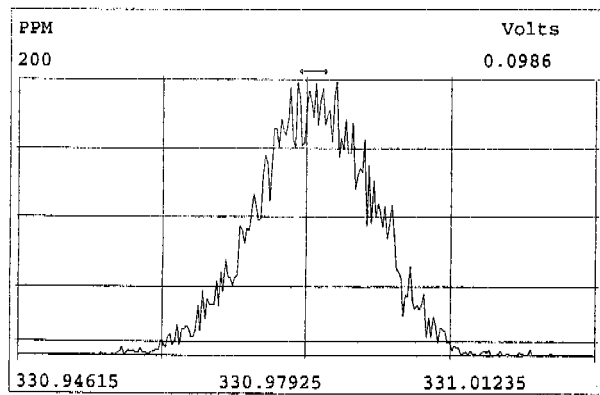
455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

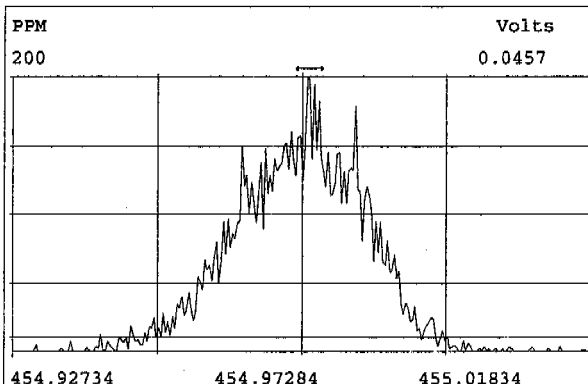
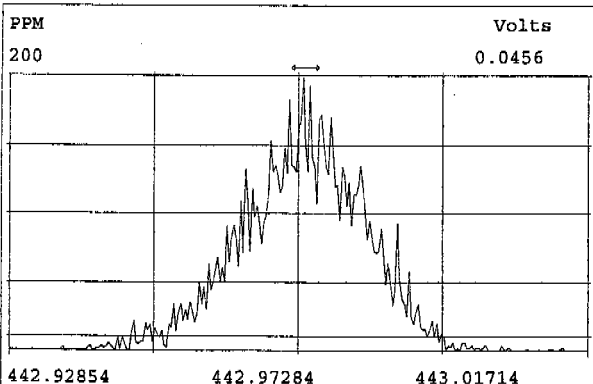
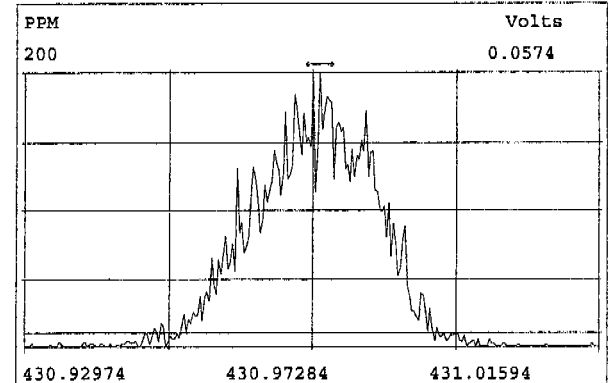
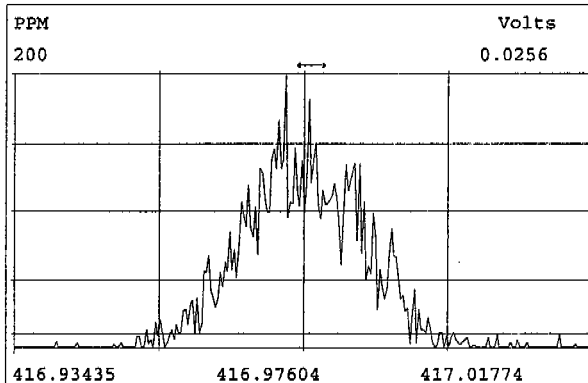
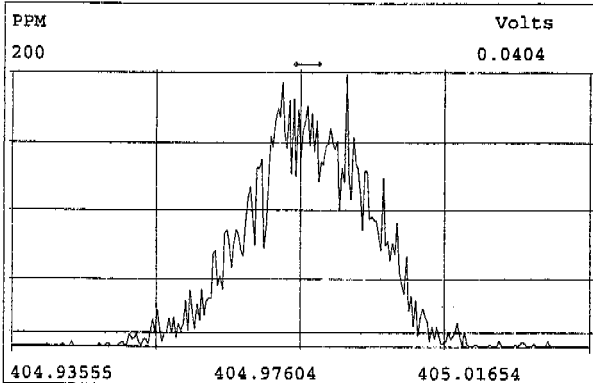
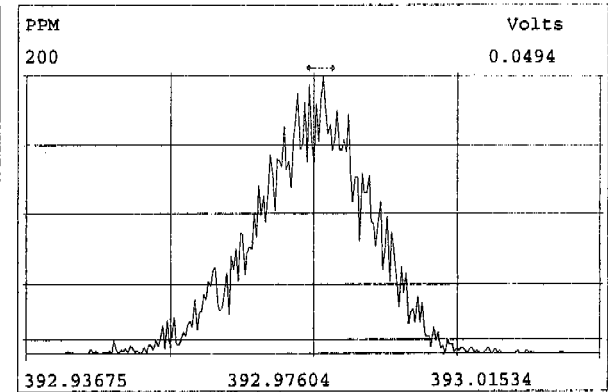
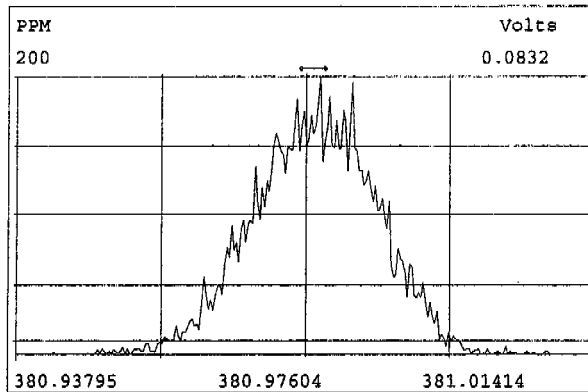
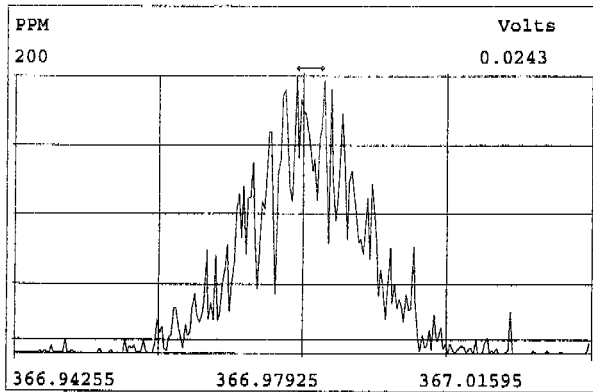


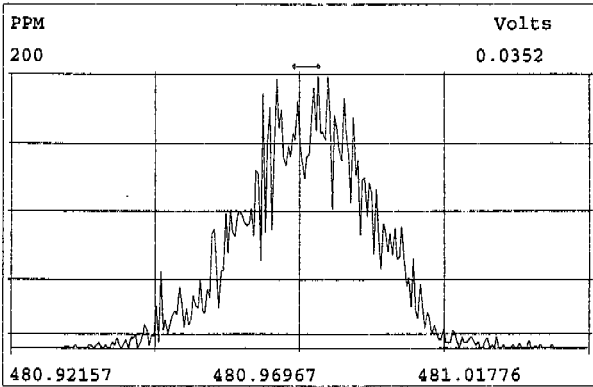
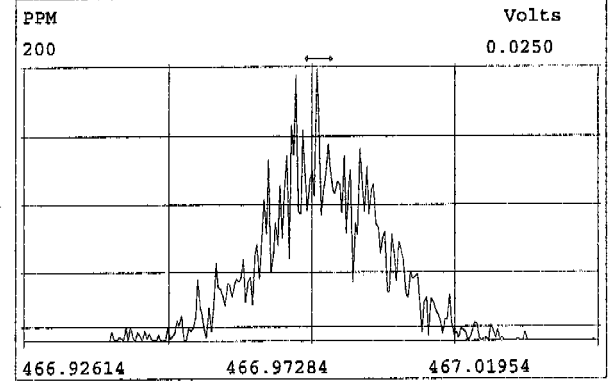
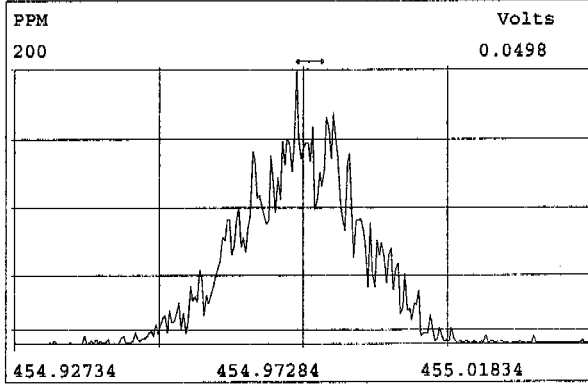
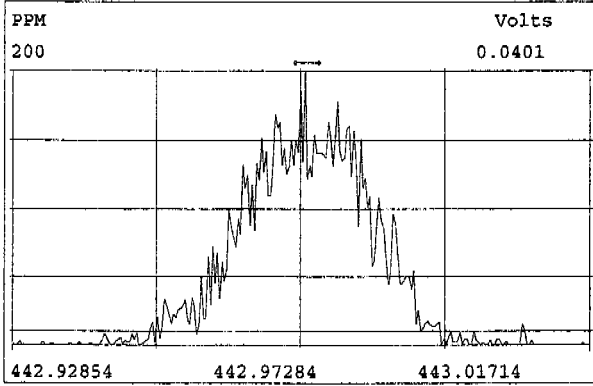
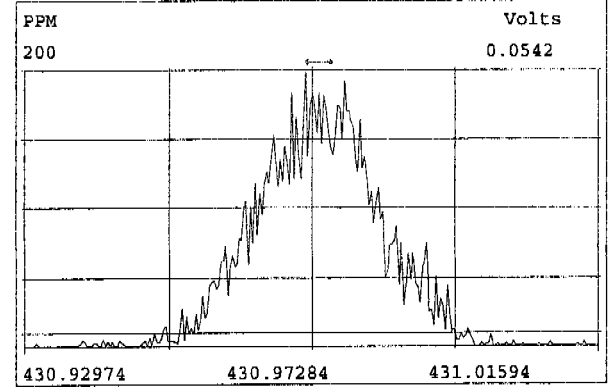
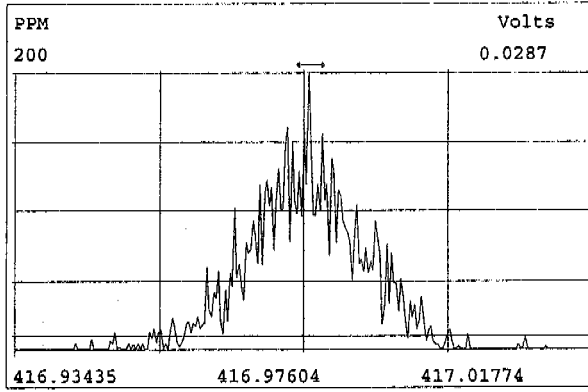
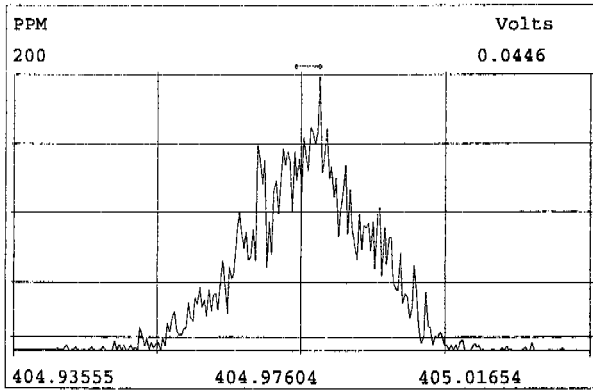
513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

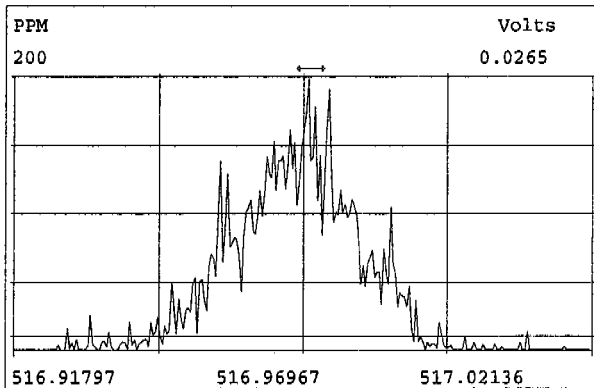
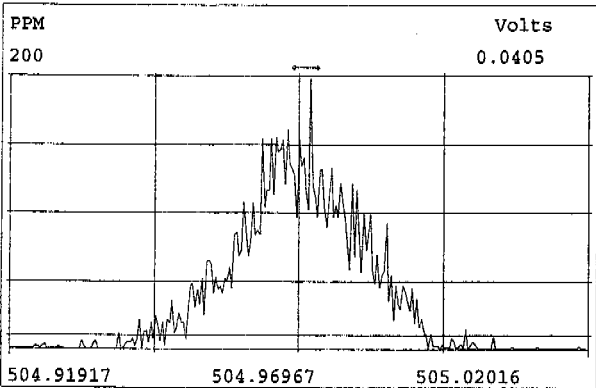
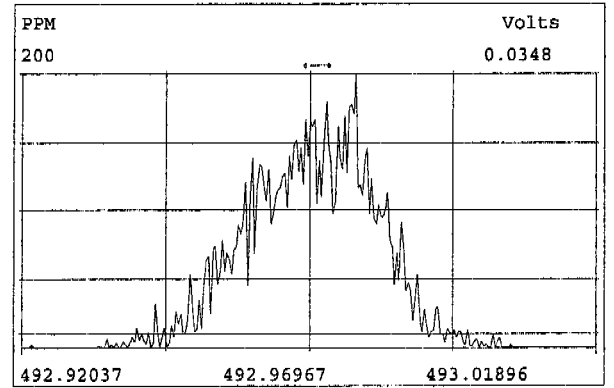
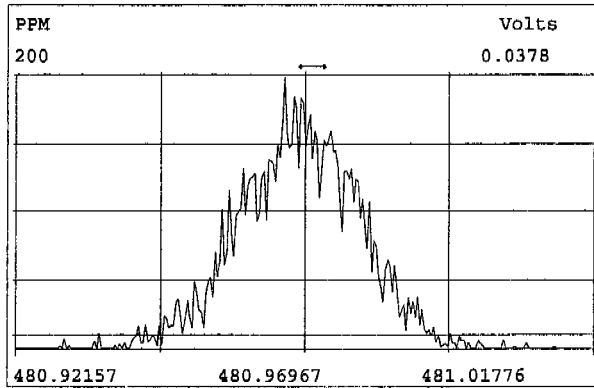
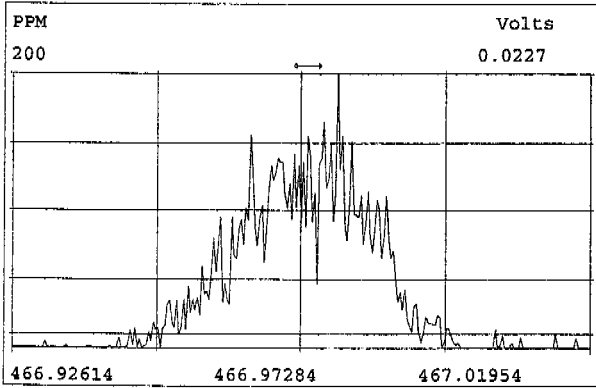
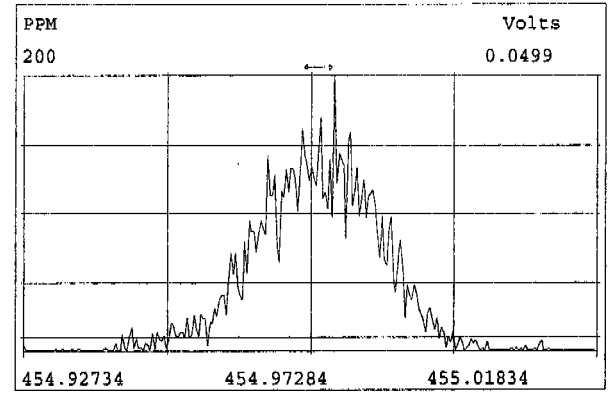
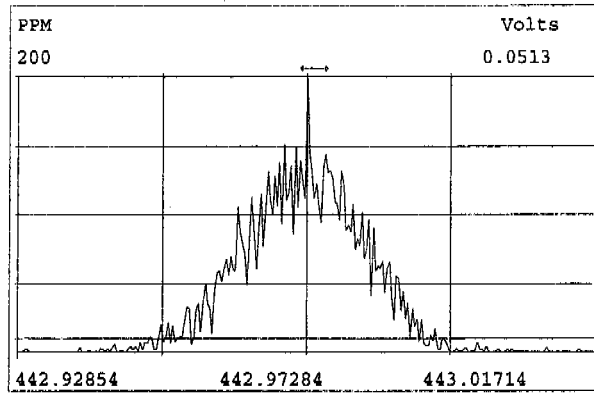
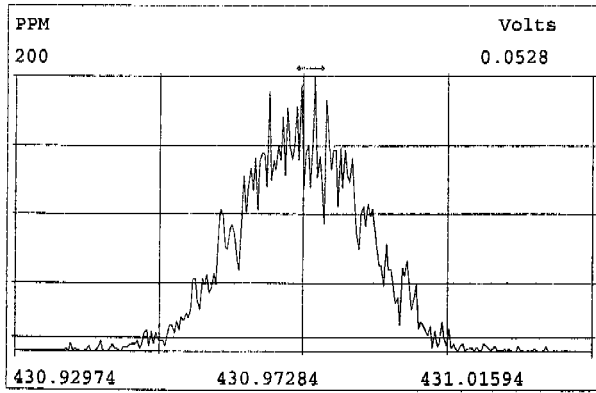












## **SAMPLE DATA**

| 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 <sub>7</sub> | *    |      | 1130  | 2.5 | 1.20  | Total Tetra-Dioxins | *      | *      |      | 1130  | 1.20  |
| 1,2,3,7,8-PeCDD     | *    | * n | 1.03 | NotF <sub>7</sub> | *    |      | 1970  | 2.5 | 1.85  | Total Penta-Dioxins | *      | *      |      | 4610  | 4.32  |
| 1,2,3,4,7,8-HxCDD   | *    | * n | 1.13 | NotF <sub>7</sub> | *    |      | 775   | 2.5 | 1.14  | Total Hexa-Dioxins  | *      | *      |      | 775   | 1.16  |
| 1,2,3,6,7,8-HxCDD   | *    | * n | 1.03 | NotF <sub>7</sub> | *    |      | 775   | 2.5 | 1.19  | Total Hepta-Dioxins | *      | *      |      | 1030  | 2.51  |
| 1,2,3,7,8,9-HxCDD   | *    | * n | 1.12 | NotF <sub>7</sub> | *    |      | 775   | 2.5 | 1.13  | Total Tetra-Furans  | *      | *      |      | 1530  | 1.33  |
| 1,2,3,4,6,7,8-HpCDD | *    | * n | 1.02 | NotF <sub>7</sub> | *    |      | 1030  | 2.5 | 2.51  | Total Penta-Furans  | 0.0000 | 0.0000 |      | 3110  | 3.42  |
| OCDD                | *    | * n | 1.06 | NotF <sub>7</sub> | *    |      | 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 <sub>7</sub> | *    |      | 1530  | 2.5 | 1.33  |                     |        |        |      |       |       |
| 1,2,3,7,8-PeCDF     | *    | * n | 1.01 | NotF <sub>7</sub> | *    |      | 1810  | 2.5 | 1.97  |                     |        |        |      |       |       |
| 2,3,4,7,8-PeCDF     | *    | * n | 1.02 | NotF <sub>7</sub> | *    |      | 1810  | 2.5 | 2.01  |                     |        |        |      |       |       |
| 1,2,3,4,7,8-HxCDF   | *    | * n | 1.15 | NotF <sub>7</sub> | *    |      | 961   | 2.5 | 0.613 |                     |        |        |      |       |       |
| 1,2,3,6,7,8-HxCDF   | *    | * n | 1.14 | NotF <sub>7</sub> | *    |      | 961   | 2.5 | 0.579 |                     |        |        |      |       |       |
| 2,3,4,6,7,8-HxCDF   | *    | * n | 1.17 | NotF <sub>7</sub> | *    |      | 961   | 2.5 | 0.710 |                     |        |        |      |       |       |
| 1,2,3,7,8,9-HxCDF   | *    | * n | 1.10 | NotF <sub>7</sub> | *    |      | 961   | 2.5 | 1.63  |                     |        |        |      |       |       |
| 1,2,3,4,6,7,8-HpCDF | *    | * n | 1.31 | NotF <sub>7</sub> | *    |      | 868   | 2.5 | 1.21  |                     |        |        |      |       |       |
| 1,2,3,4,7,8,9-HpCDF | *    | * n | 1.33 | NotF <sub>7</sub> | *    |      | 868   | 2.5 | 1.60  |                     |        |        |      |       |       |
| OCDF                | *    | * n | 0.91 | NotF <sub>7</sub> | *    |      | 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

by  
Analyst: MD

Reviewed

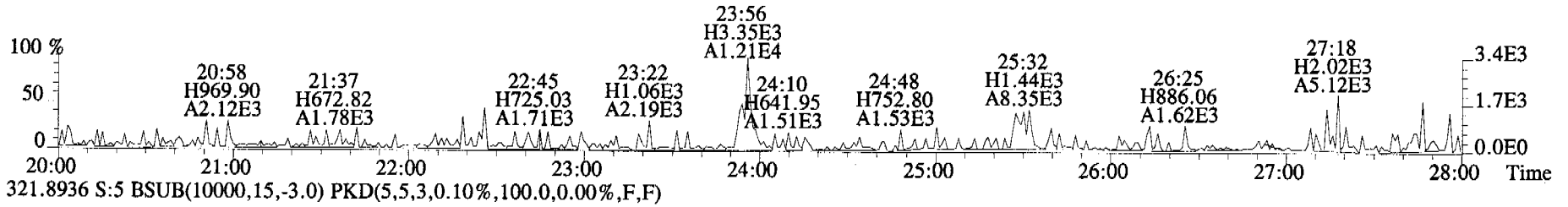
by  
Analyst: LU

Date: 9/21/06

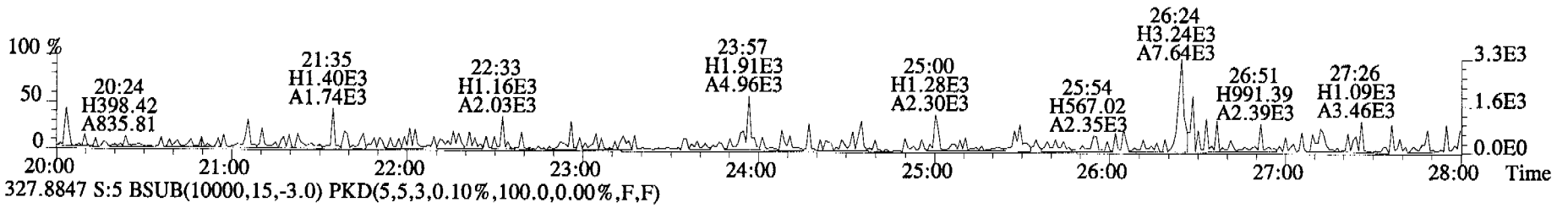
Date: 9/21/06



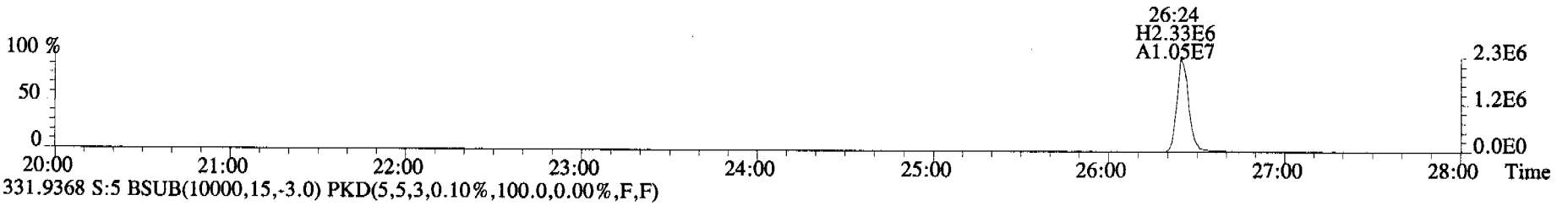
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



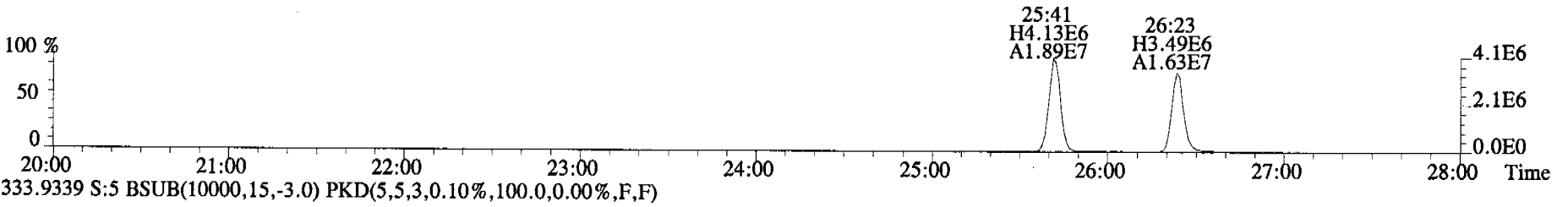
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



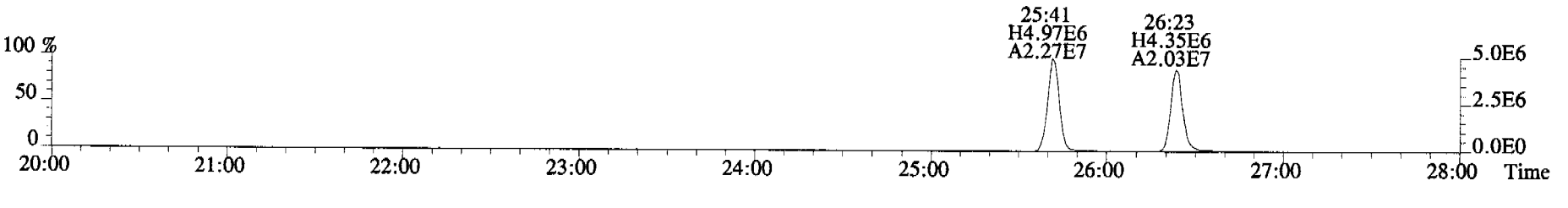
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



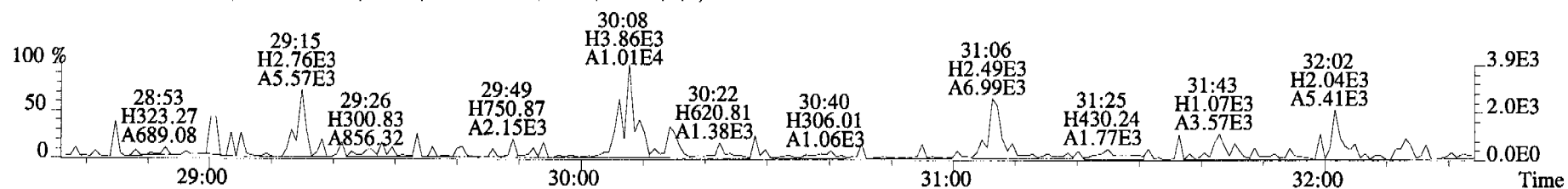
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



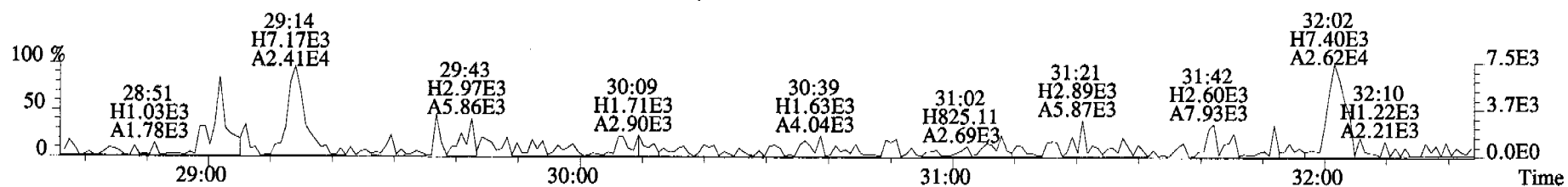
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



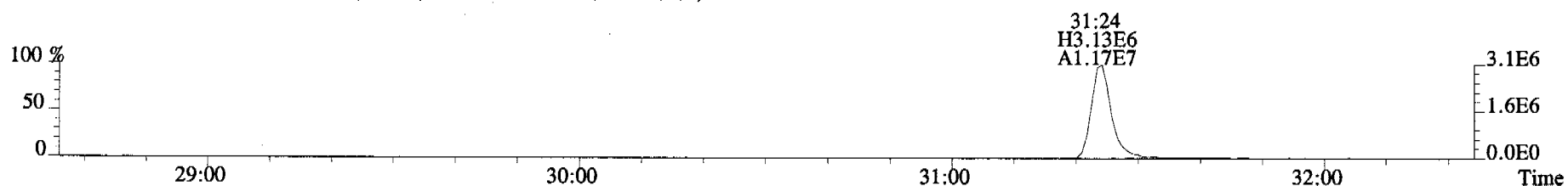
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0\_8381\_MB001 Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



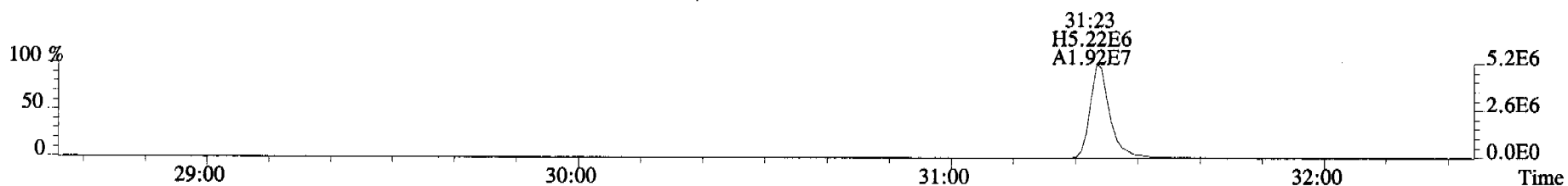
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



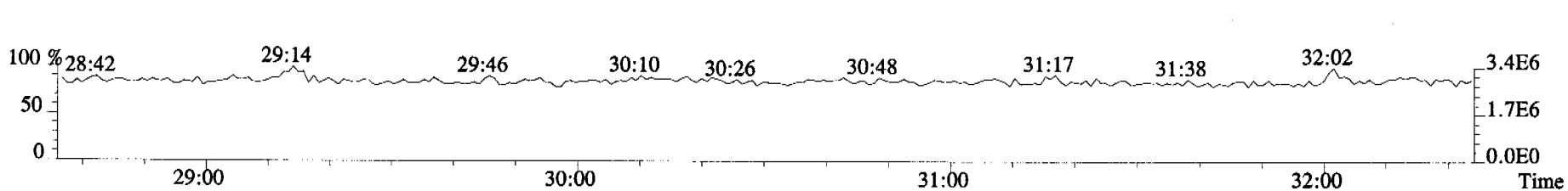
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



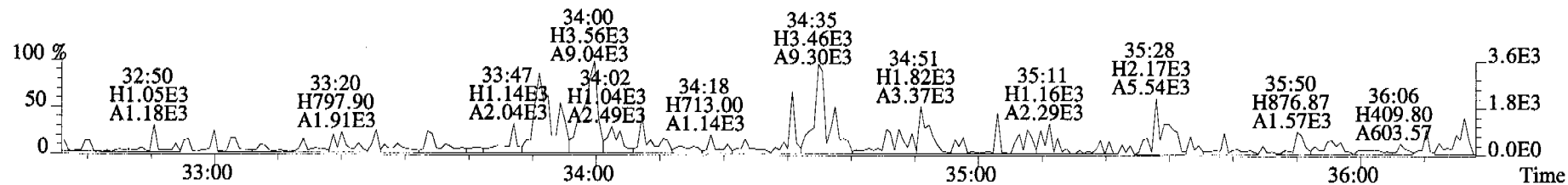
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



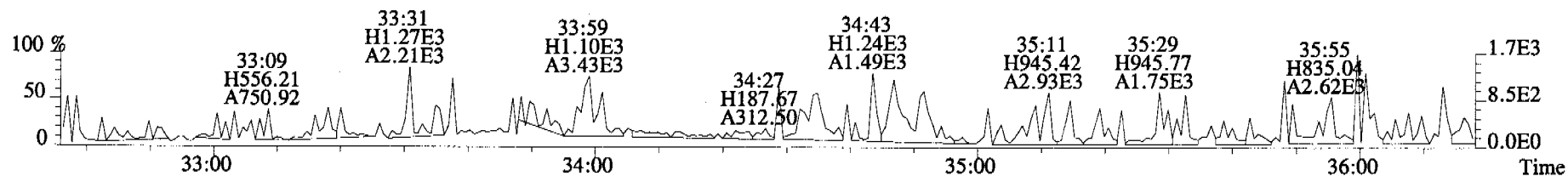
366.9792 S:5 F:2



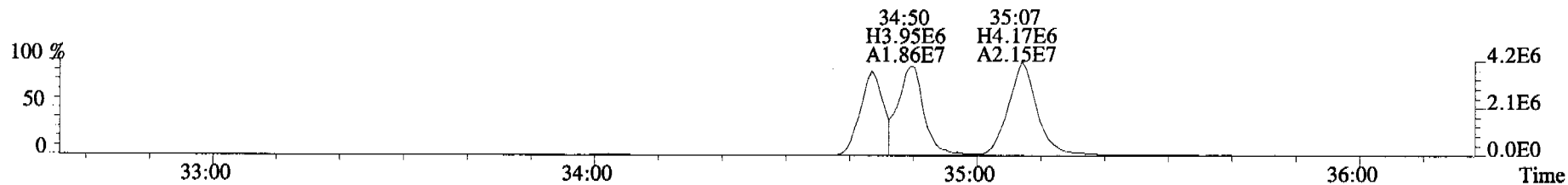
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



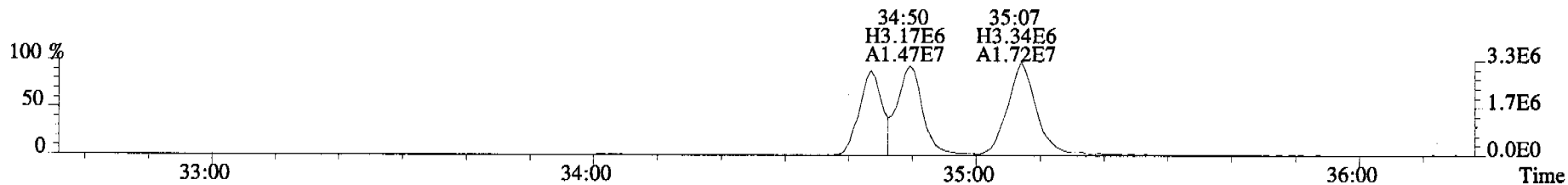
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



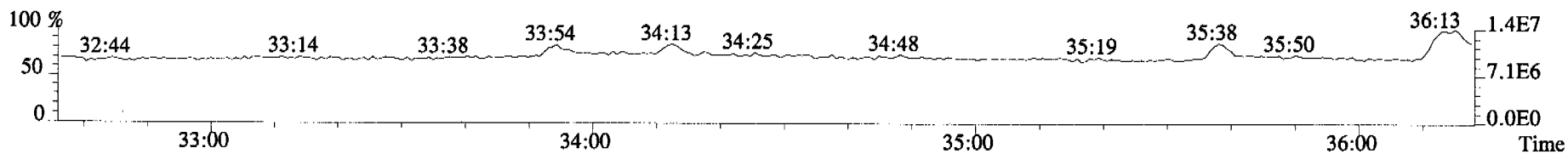
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



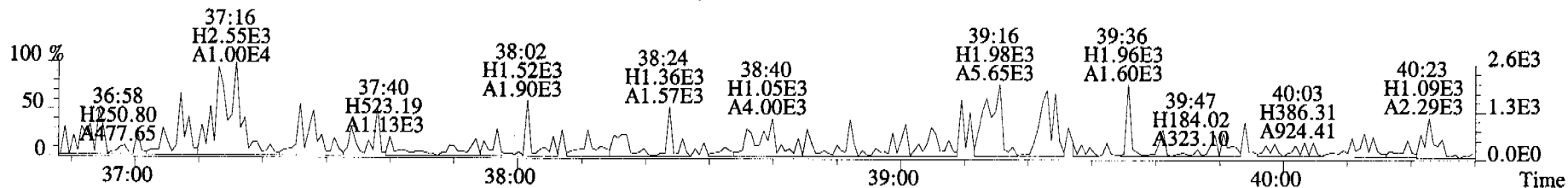
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



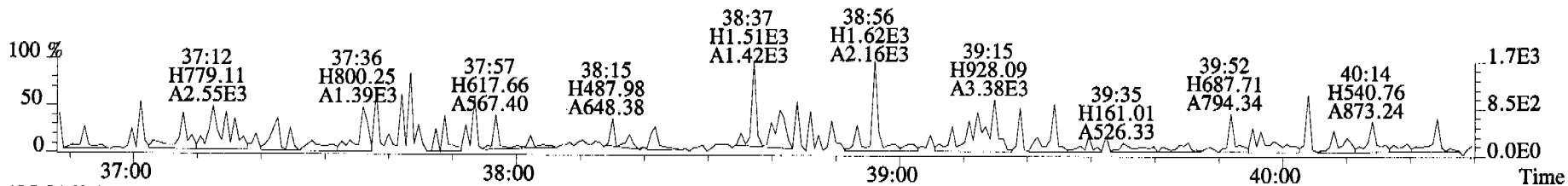
380.9760 S:5 F:3



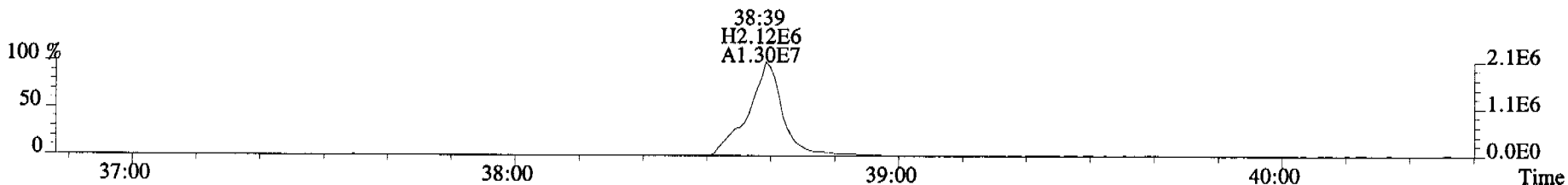
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0\_8381\_MB001\_Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



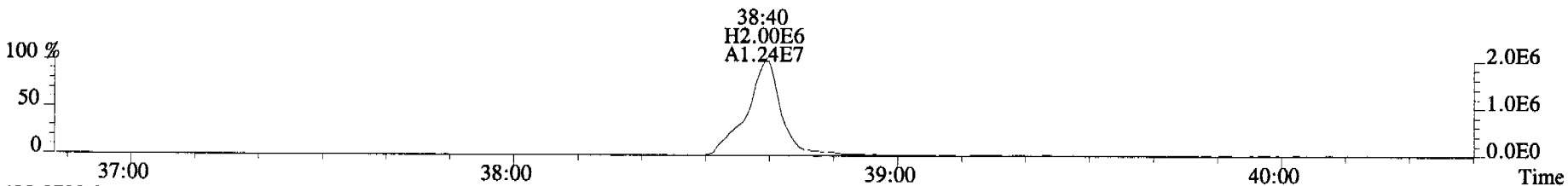
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



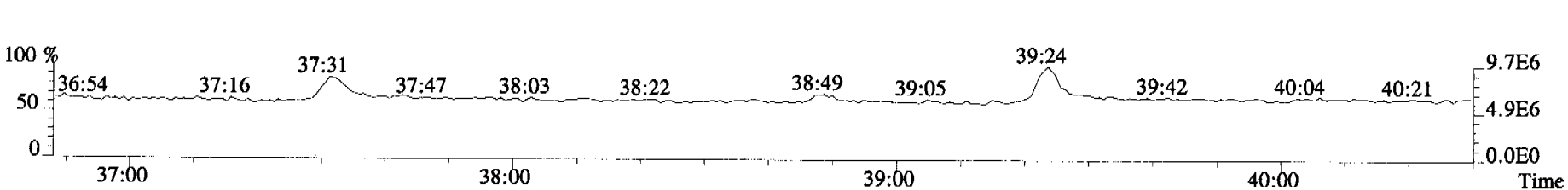
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



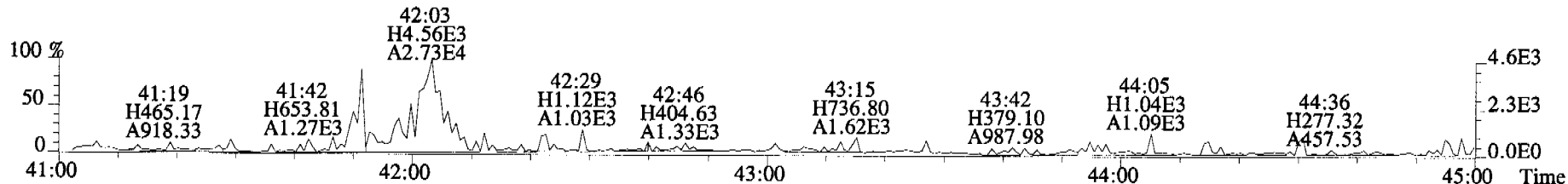
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



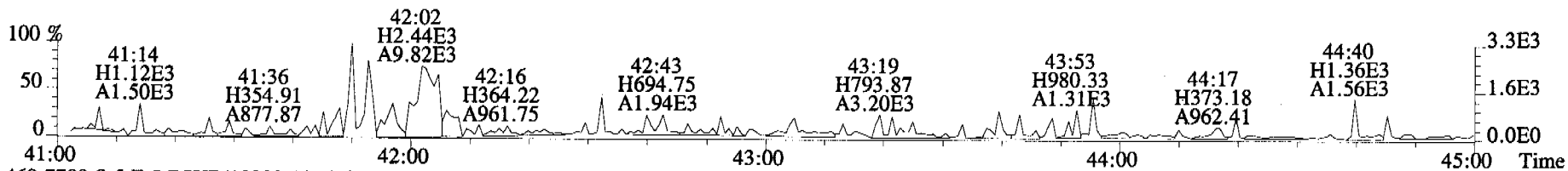
430.9728 S:5 F:4



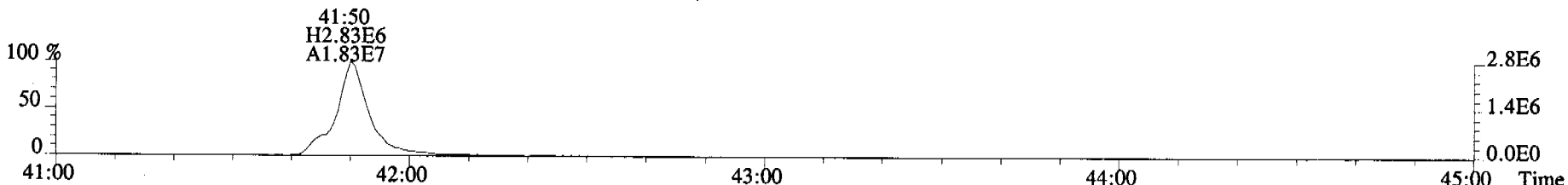
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



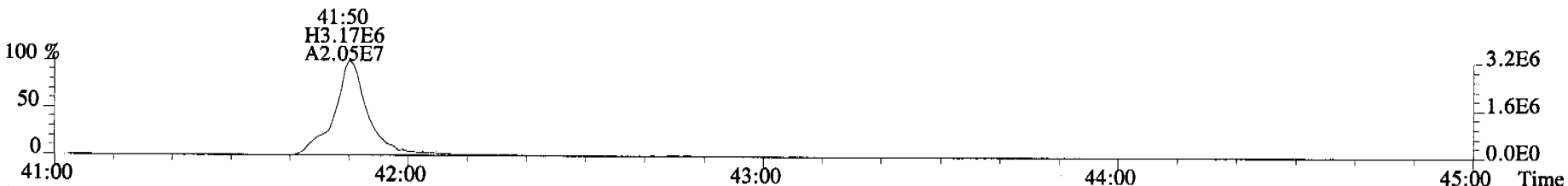
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



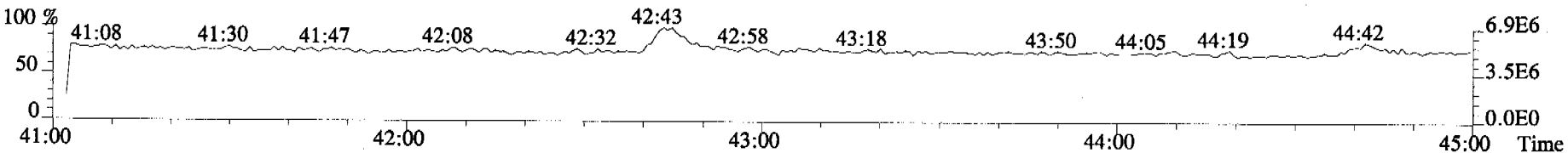
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



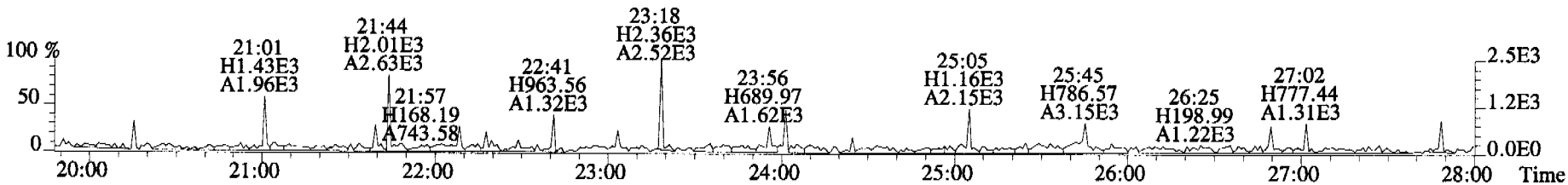
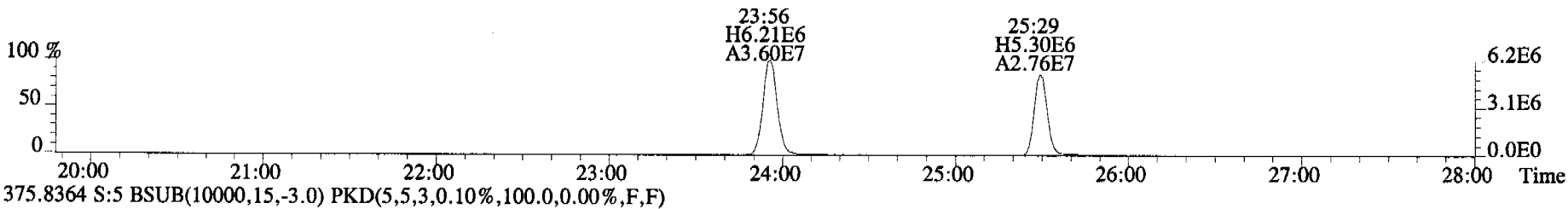
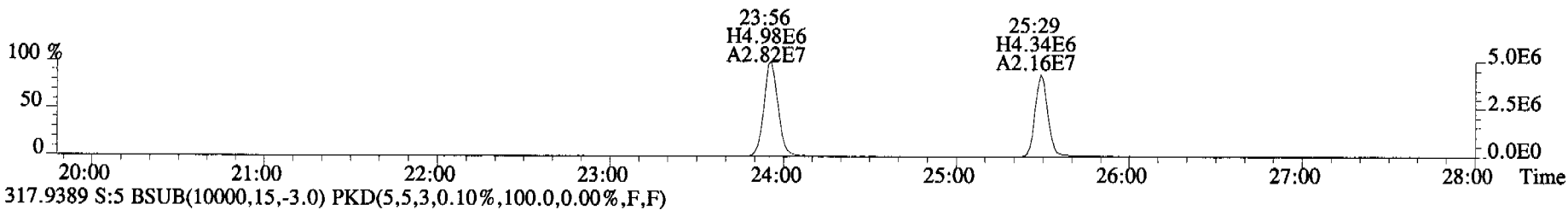
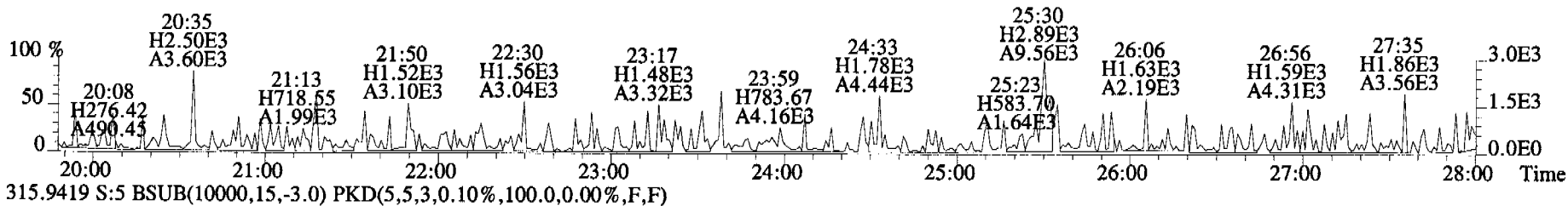
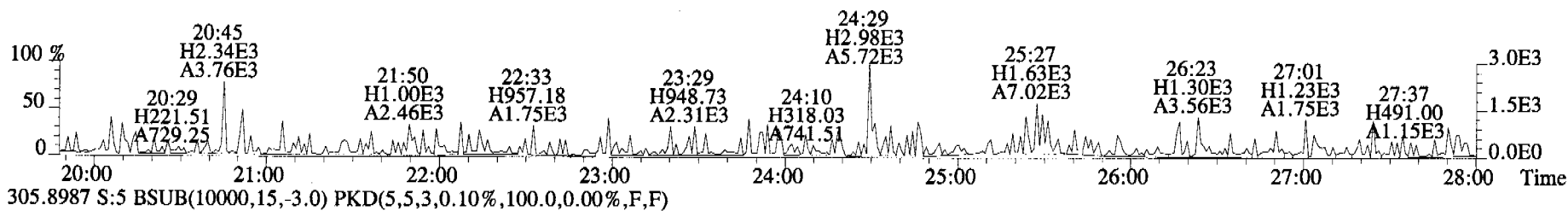
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



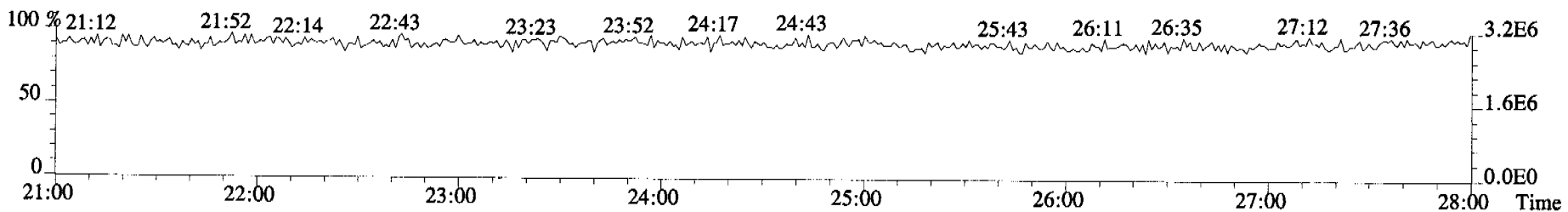
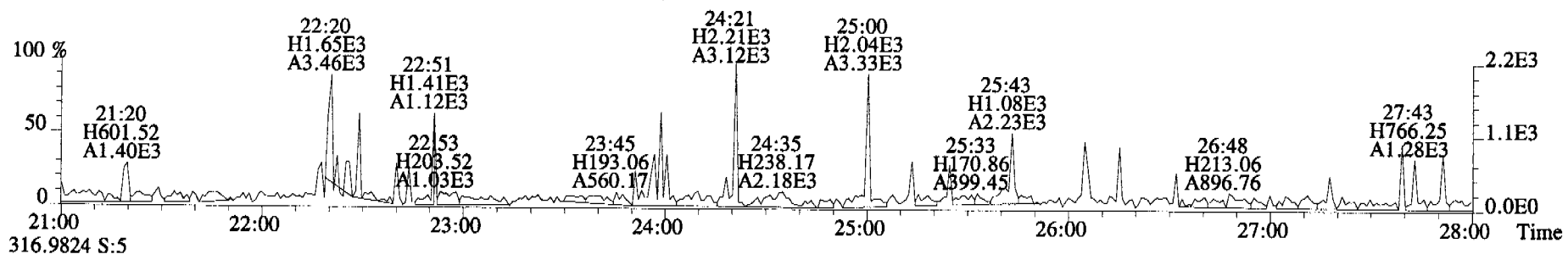
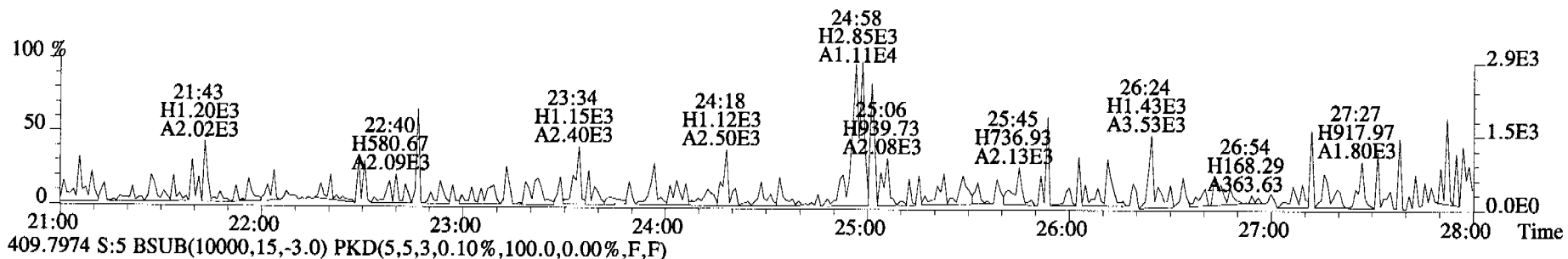
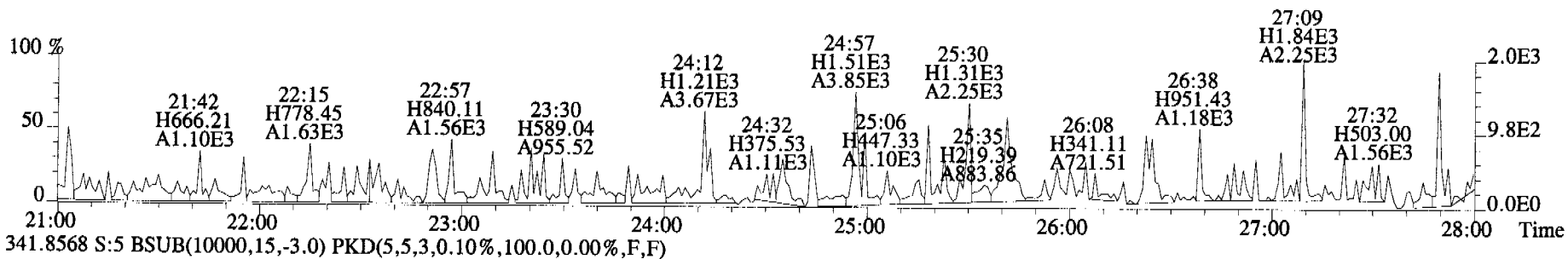
454.9728 S:5 F:5



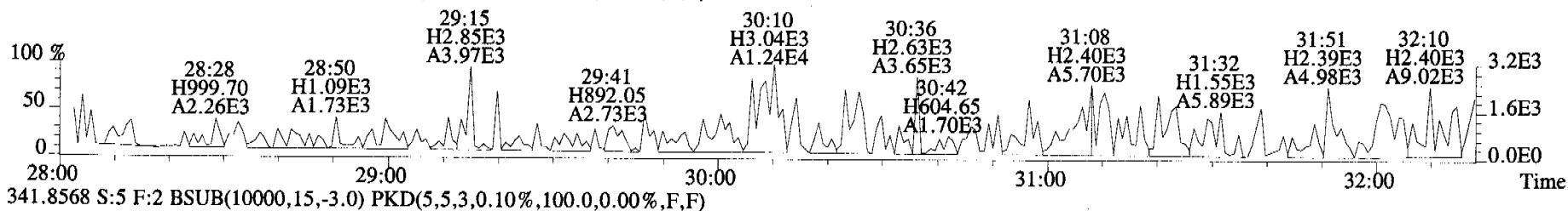
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



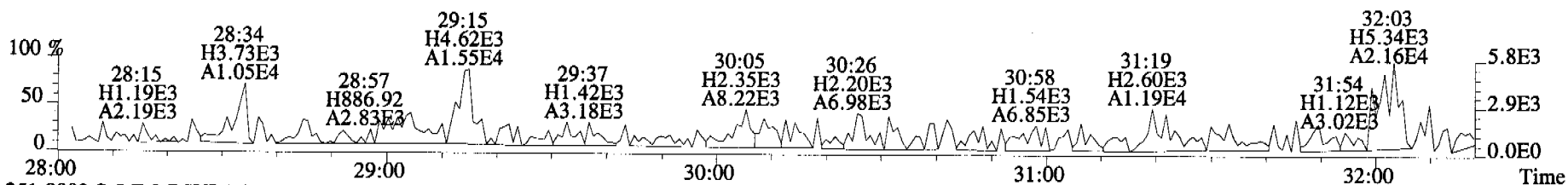
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD\_DB5  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



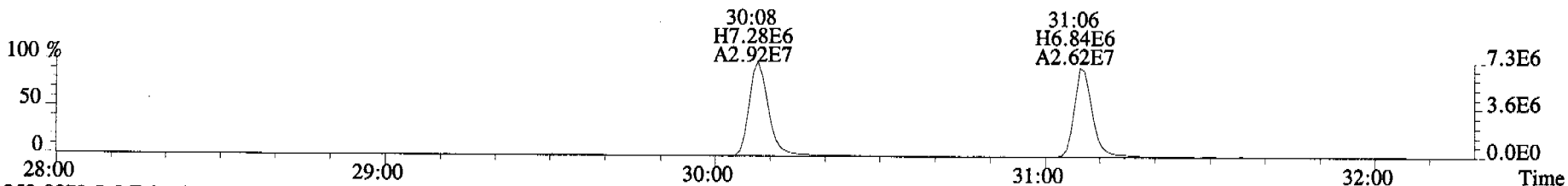
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



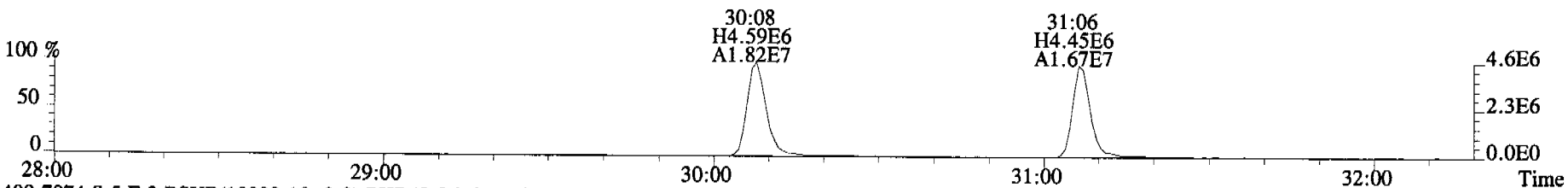
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



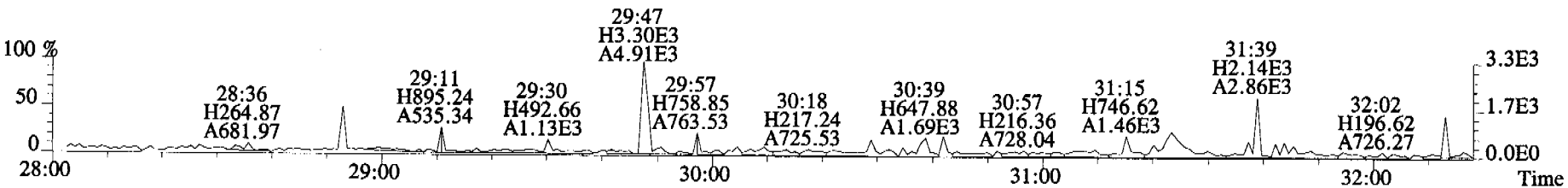
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

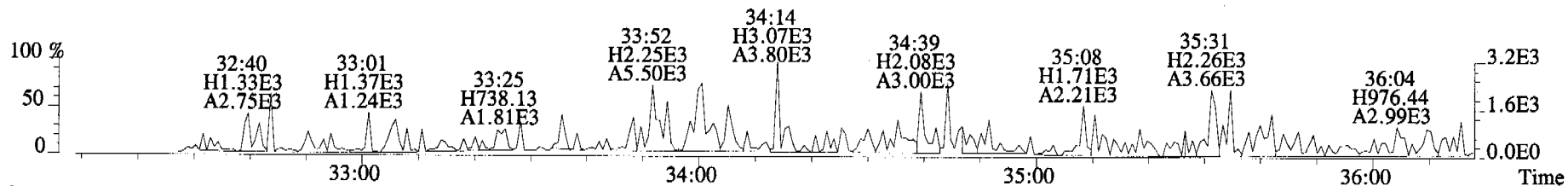


409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

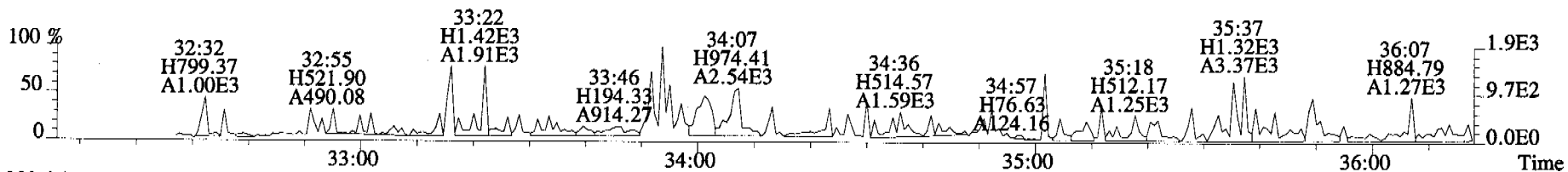




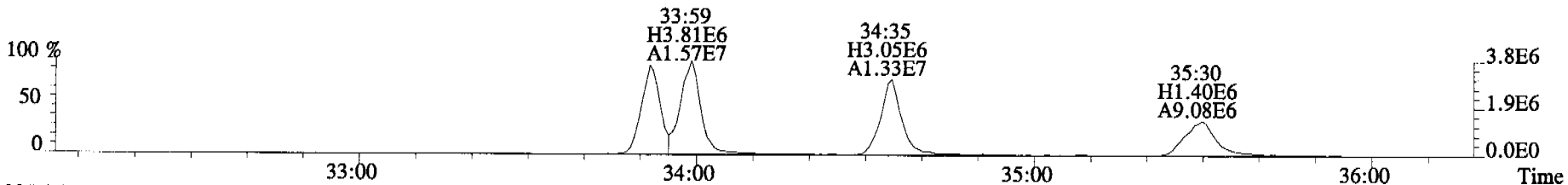
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



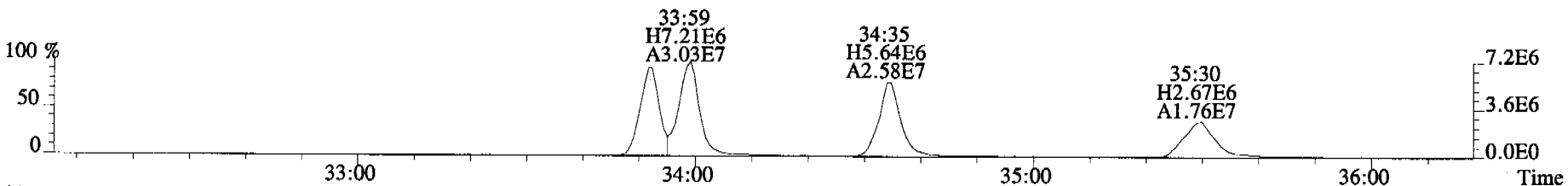
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



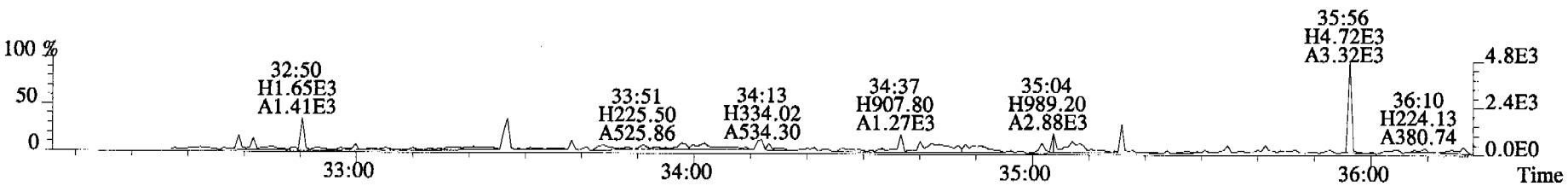
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



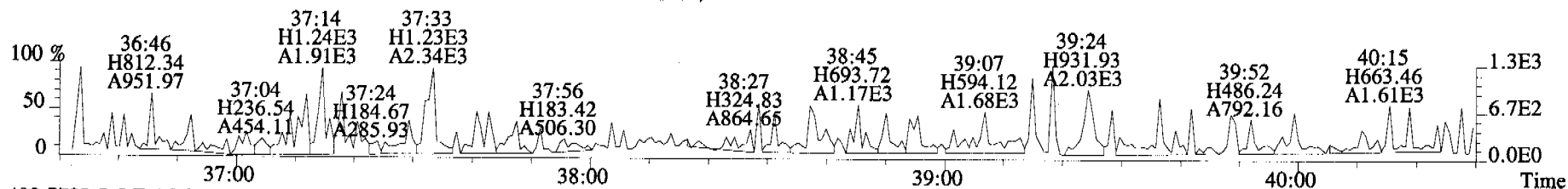
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



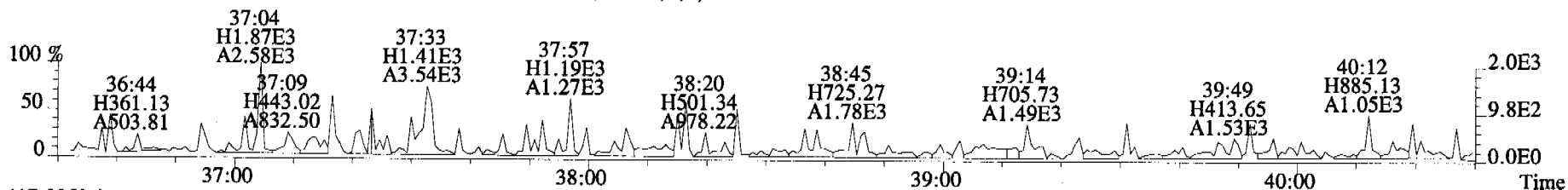
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



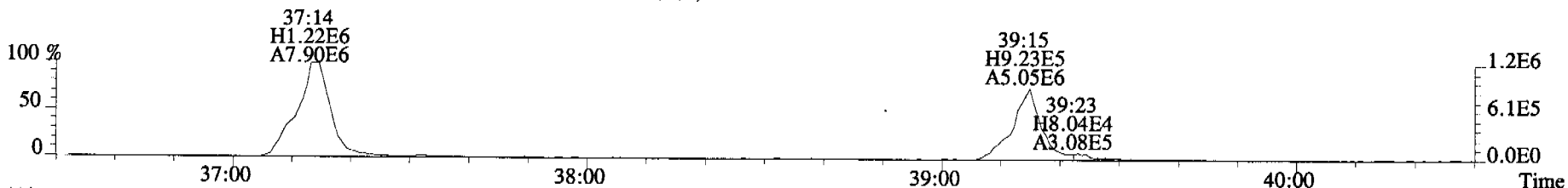
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0\_8381\_MB001 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



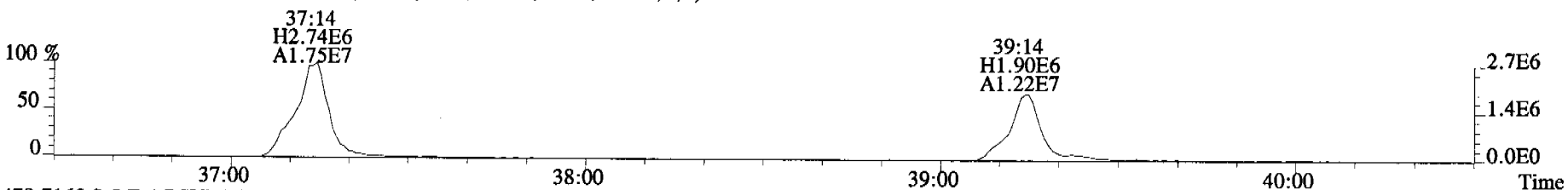
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



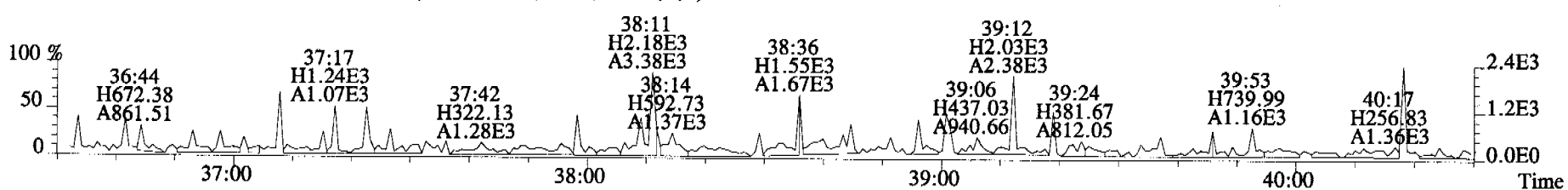
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



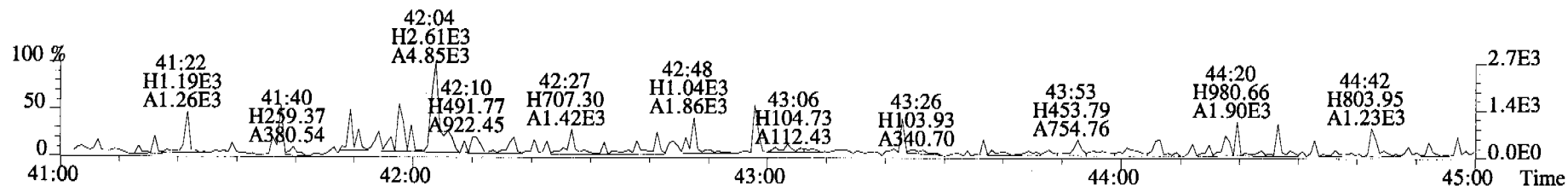
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



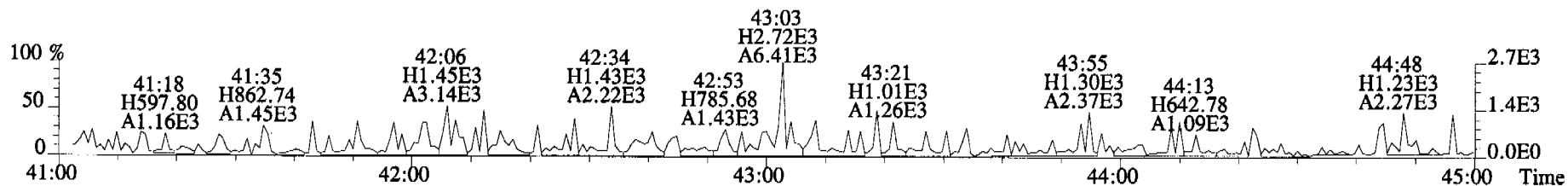
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



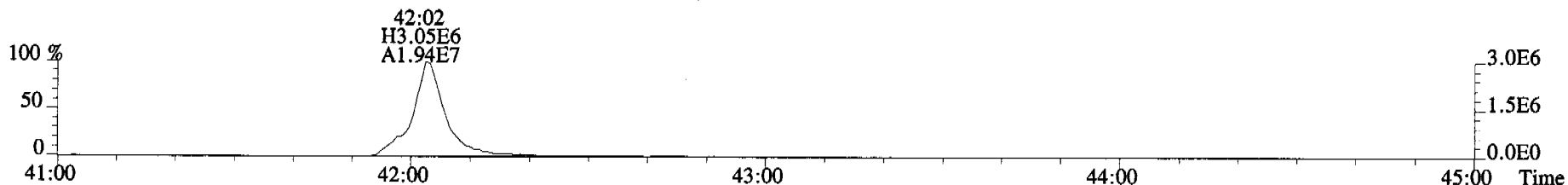
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



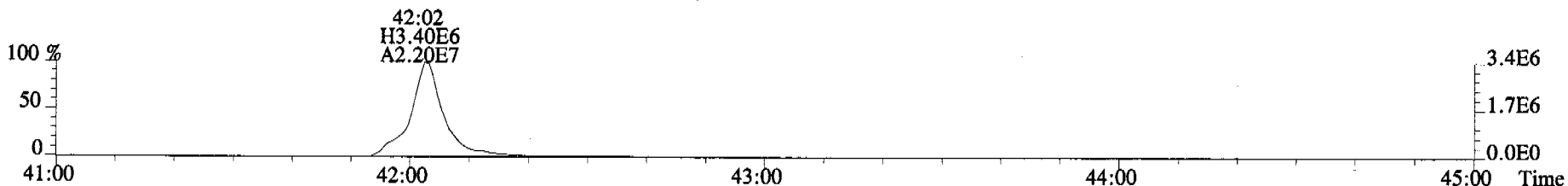
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



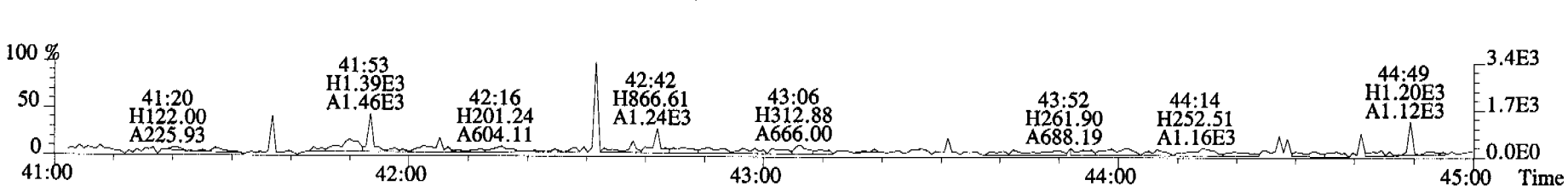
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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<br>CONC.<br>(ng/mL) | CONC.<br>FOUND<br>(ng/mL) | OPR CONC.<br>LIMITS (1)<br>(ng/mL) |
|---------------------|---------------------------|---------------------------|------------------------------------|
| 2,3,7,8-TCDD        | 10                        | 9.99                      | 6.7 - 15.8<br>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<br>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.  
10/94Analyst: msDate: 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<br>CONC.<br>(ng/mL) | CONC.<br>FOUND<br>(ng/mL) | OPR CONC.<br>LIMITS (1)<br>(ng/mL) |
|-------------------------|---------------------------|---------------------------|------------------------------------|
| 13C-2,3,7,8-TCDD        | 100                       | 72.8                      | 20.0 - 175.0<br>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<br>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  
GC Column ID: db-5

S:2 Acq:20-SEP-06 16:04:31  
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 | 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

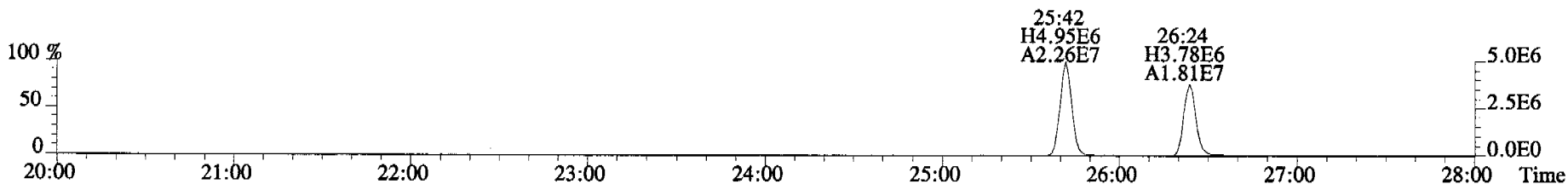
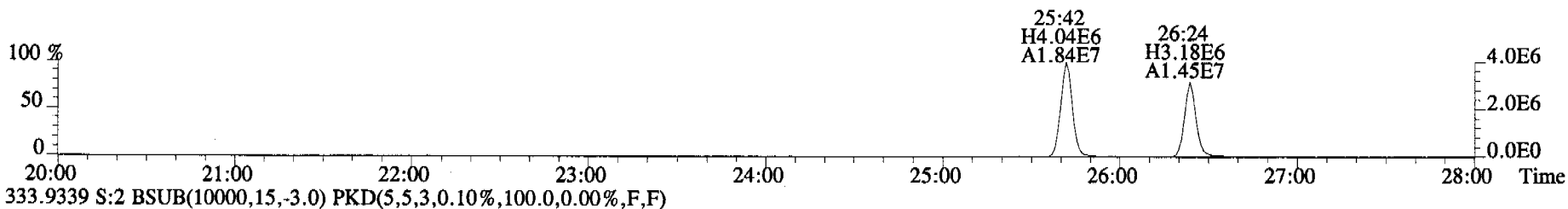
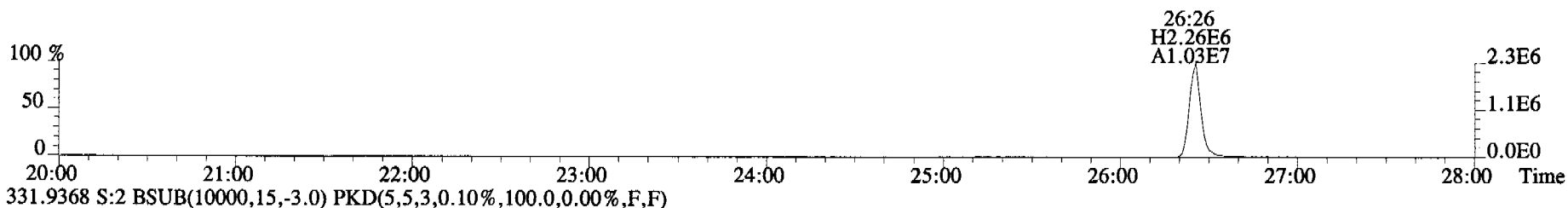
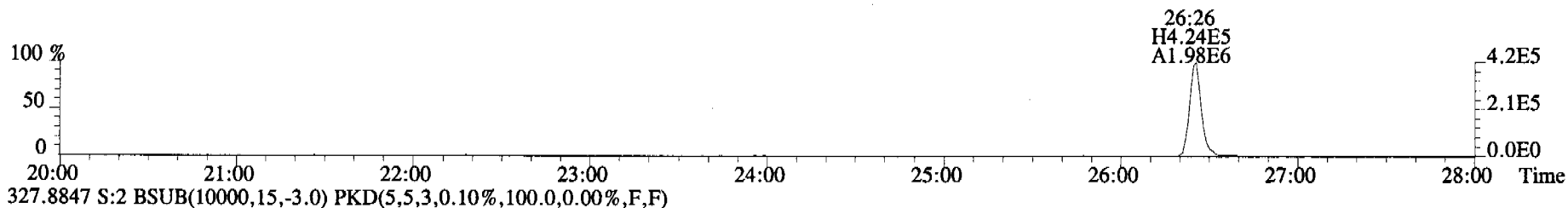
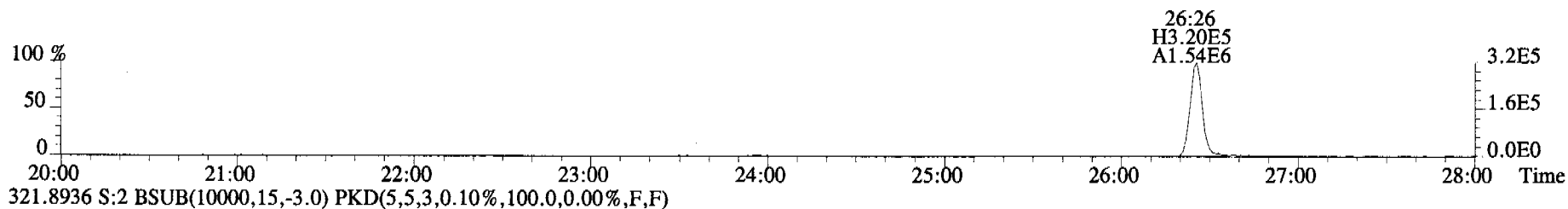
by  
Analyst: MS

by  
Analyst: MLL

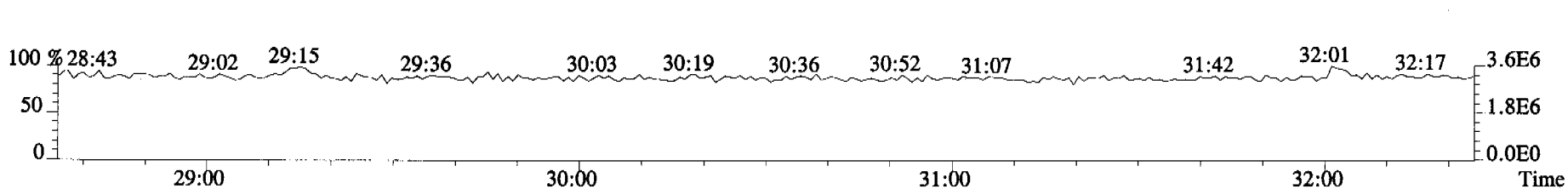
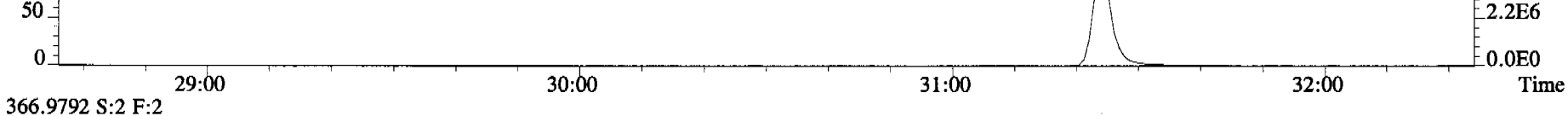
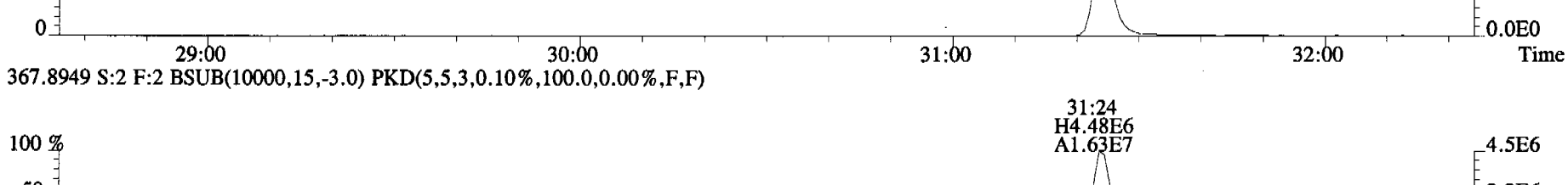
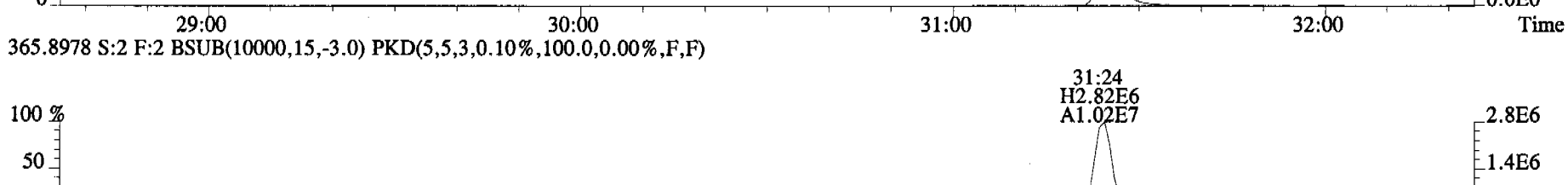
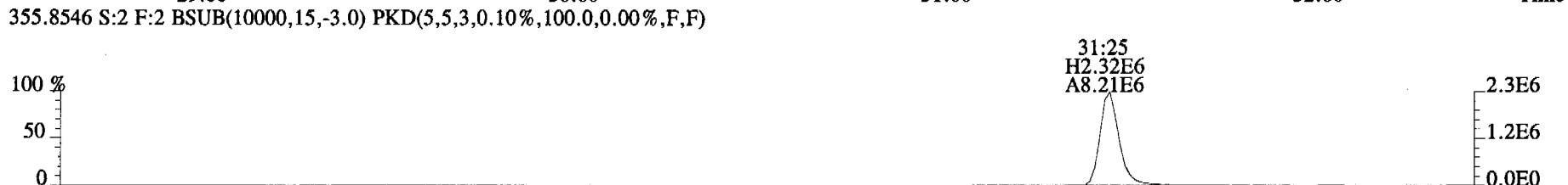
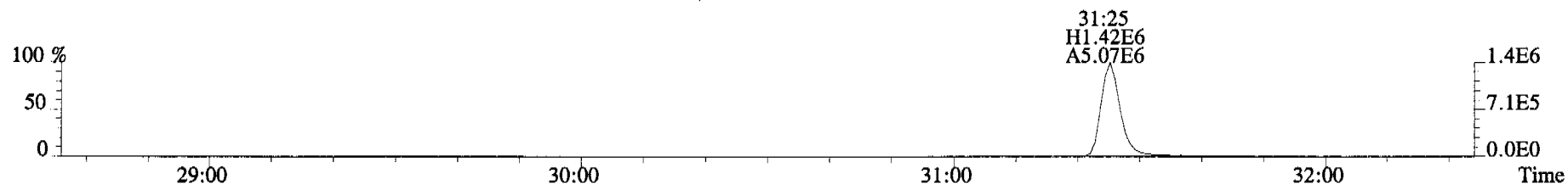
Date: 9/21/06

Date: 9/21/06

File:060920C2 #1-546 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  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

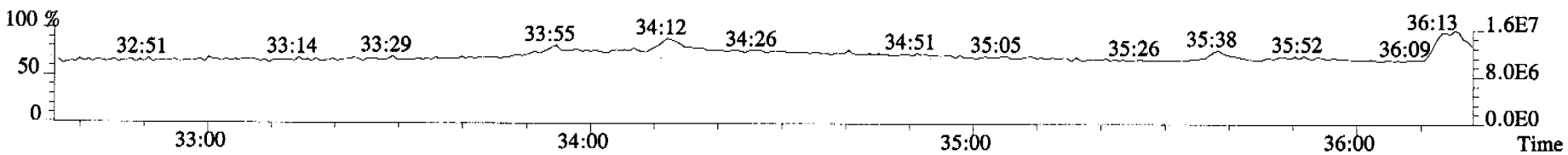
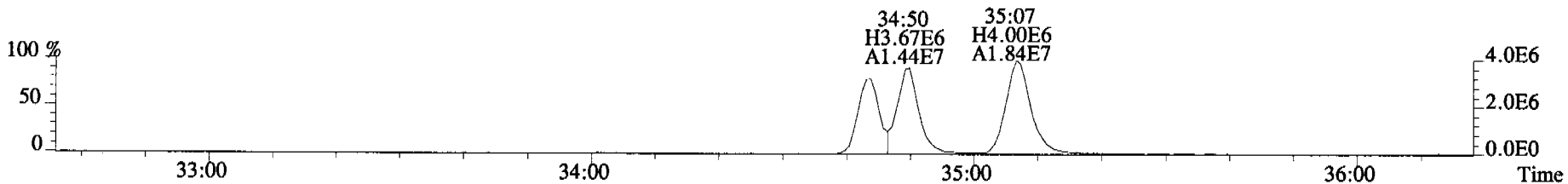
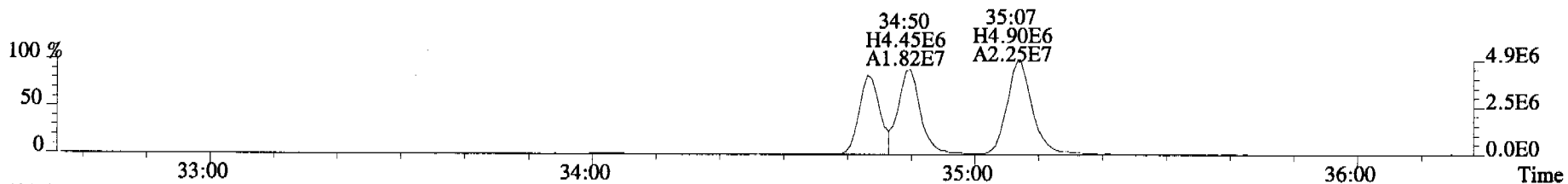
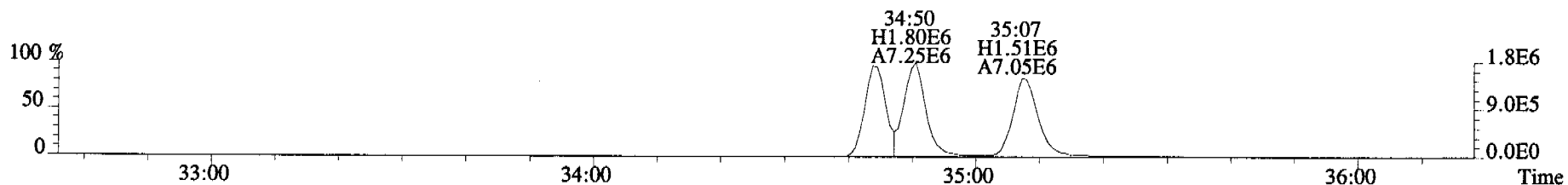
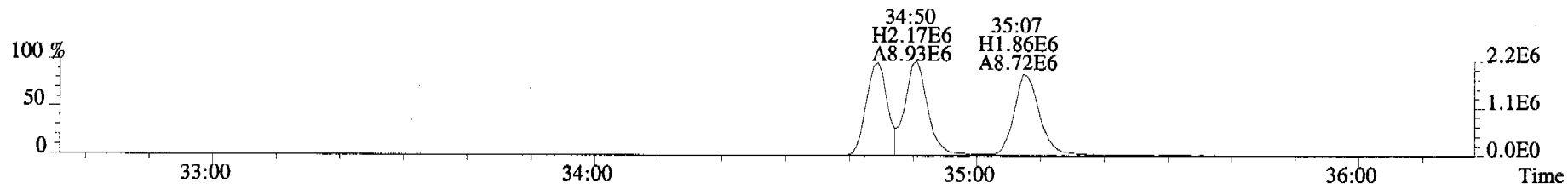


File:060920C2 #1-324 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
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353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

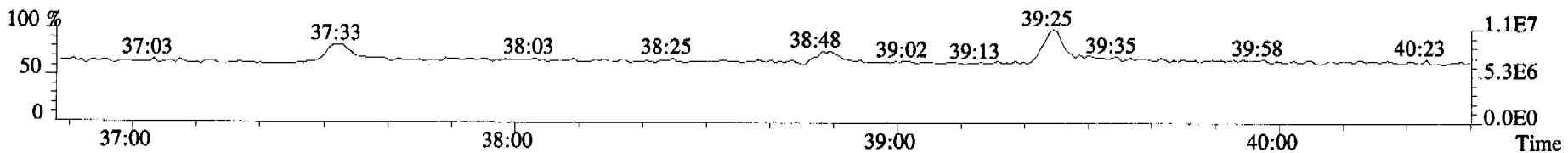
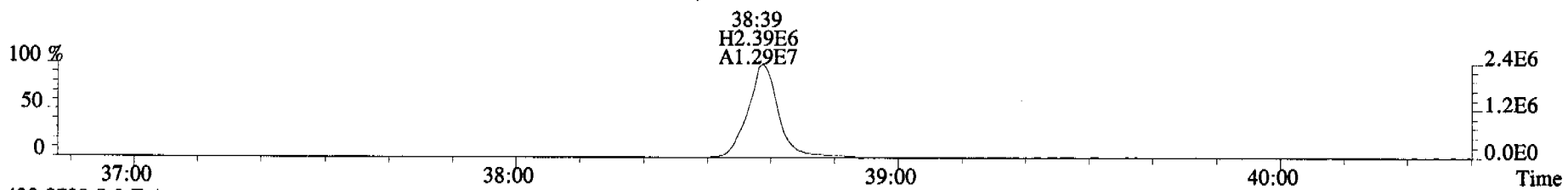
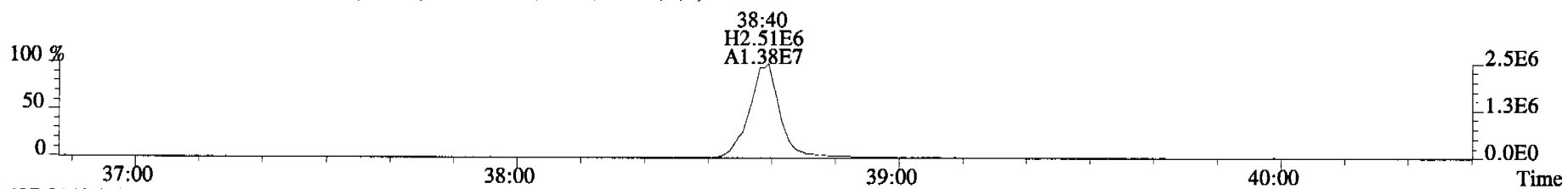
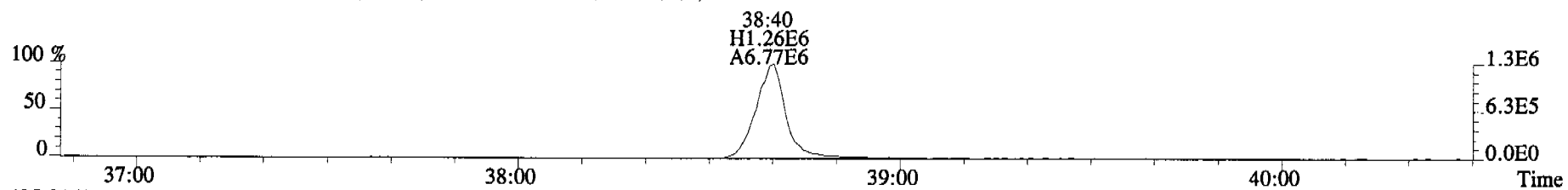
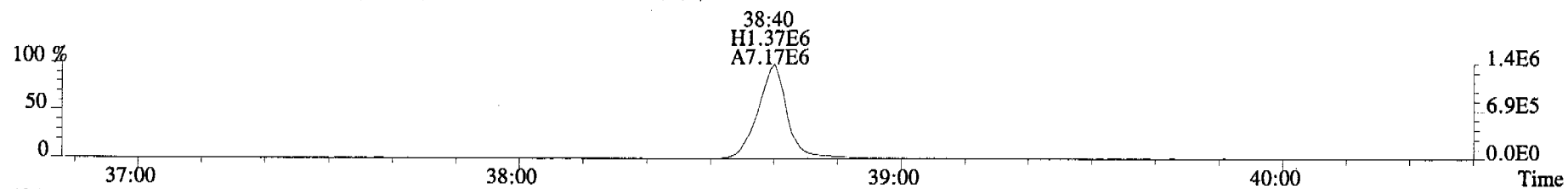




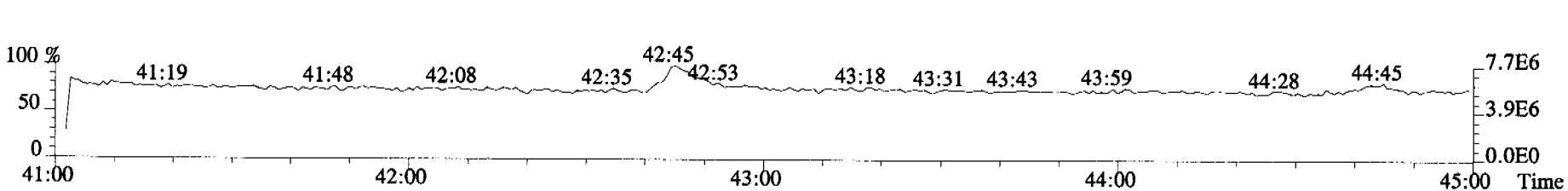
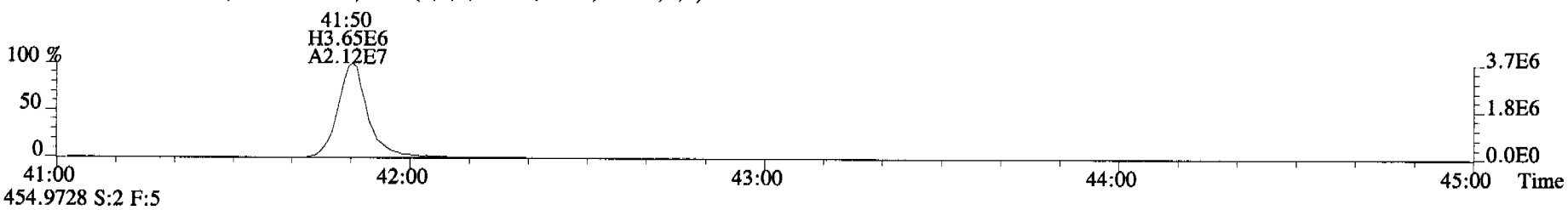
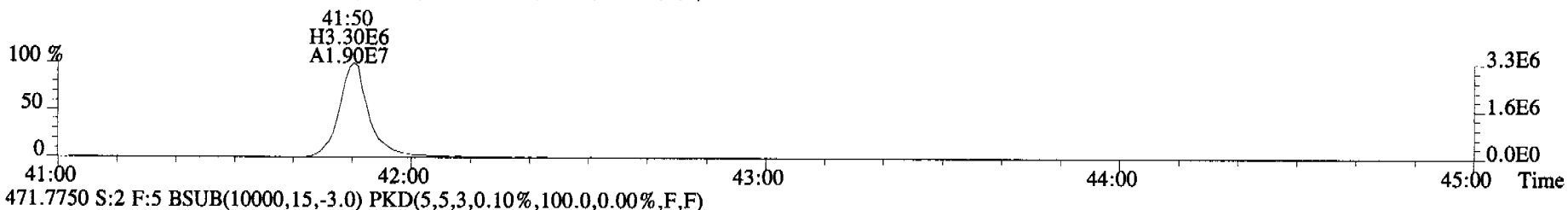
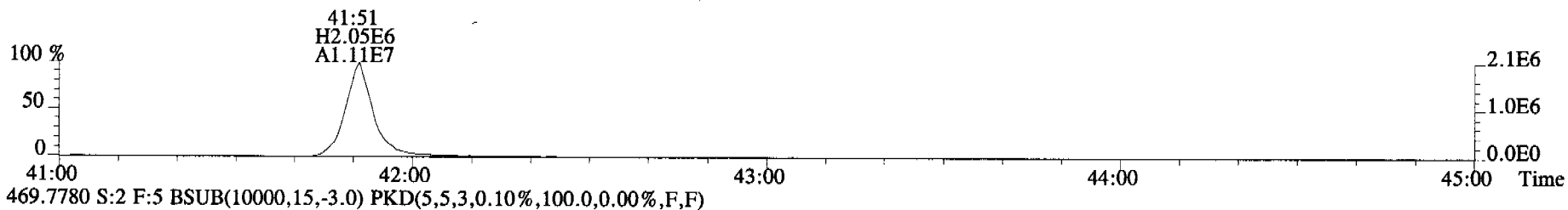
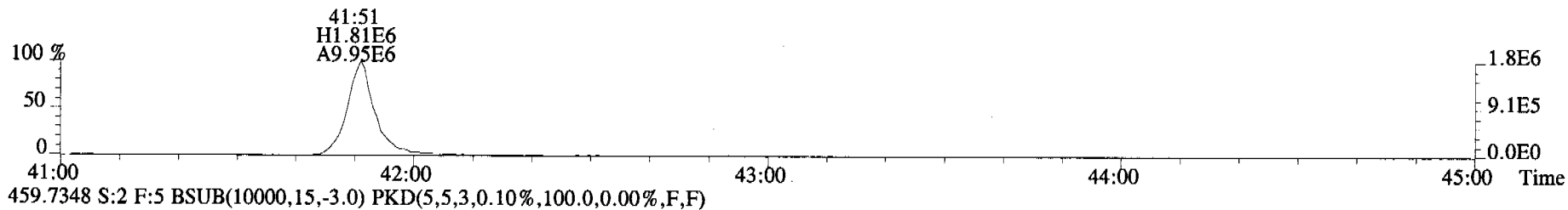
File:060920C2 #1-362 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



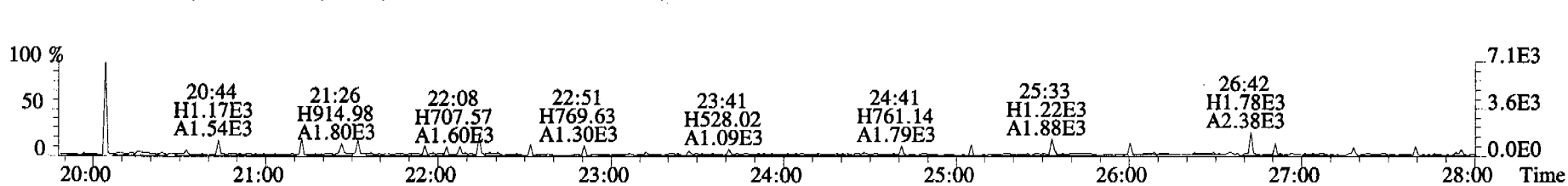
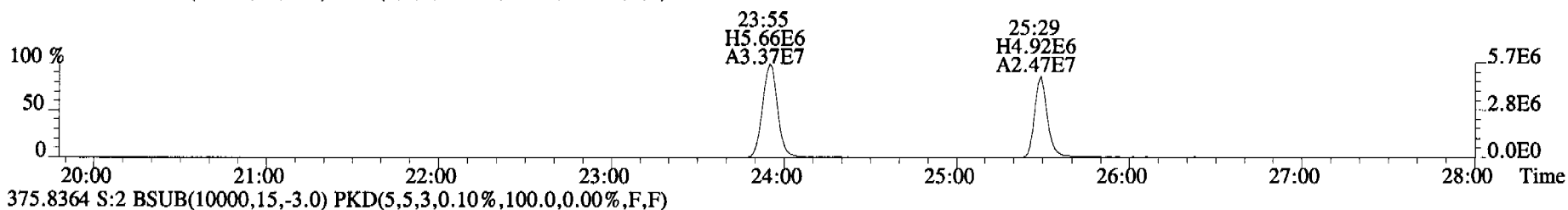
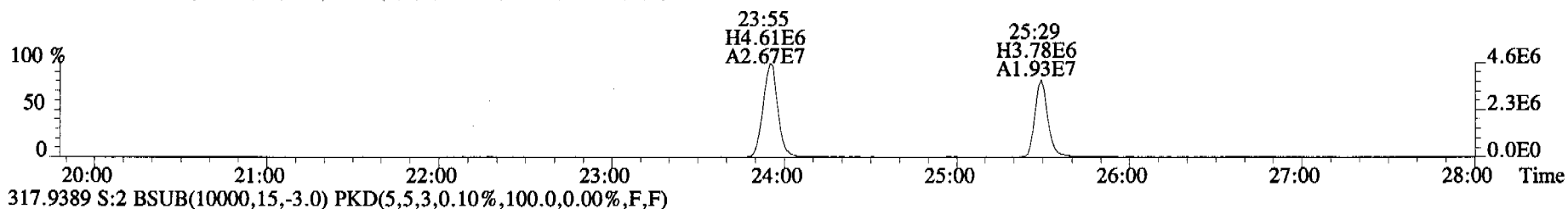
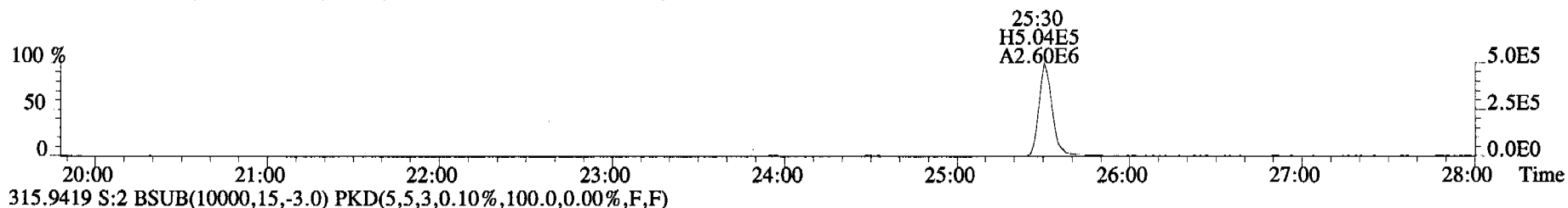
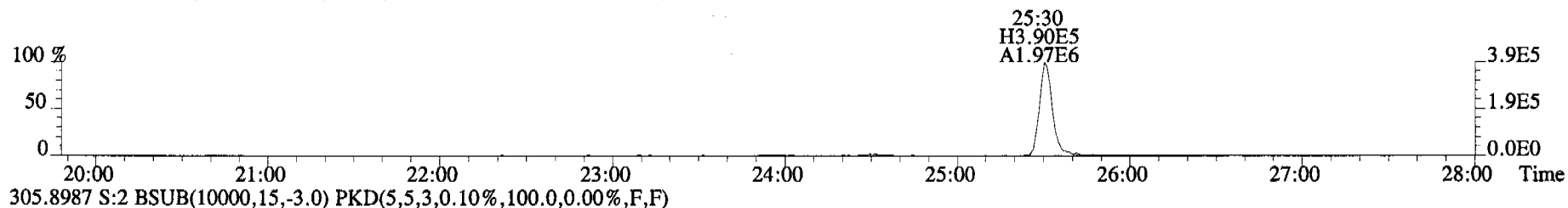
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423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



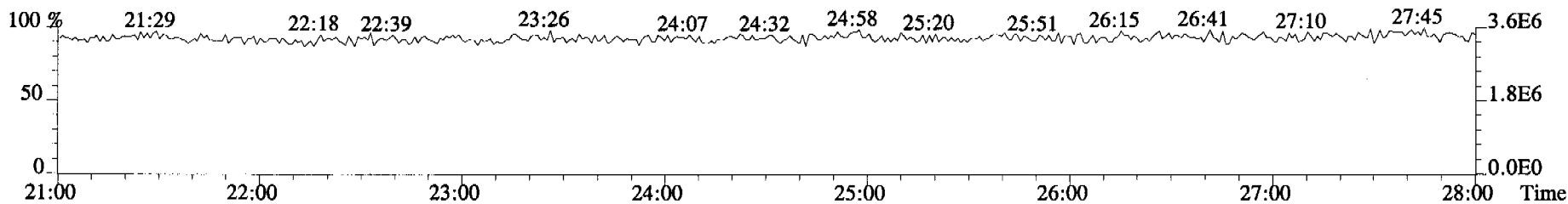
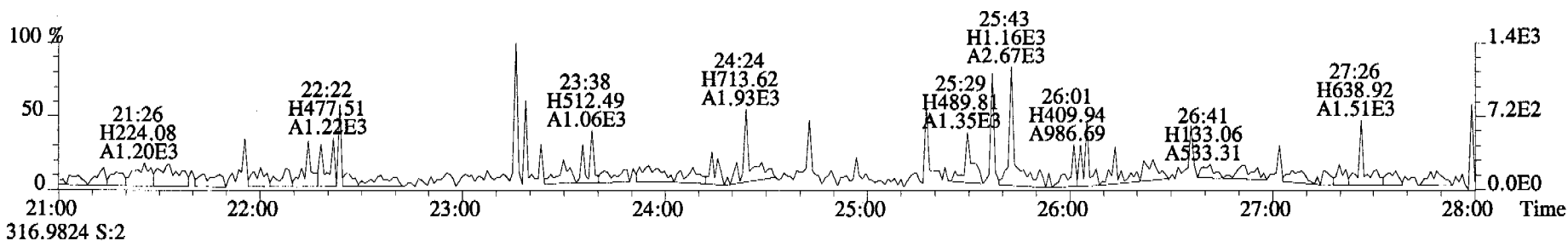
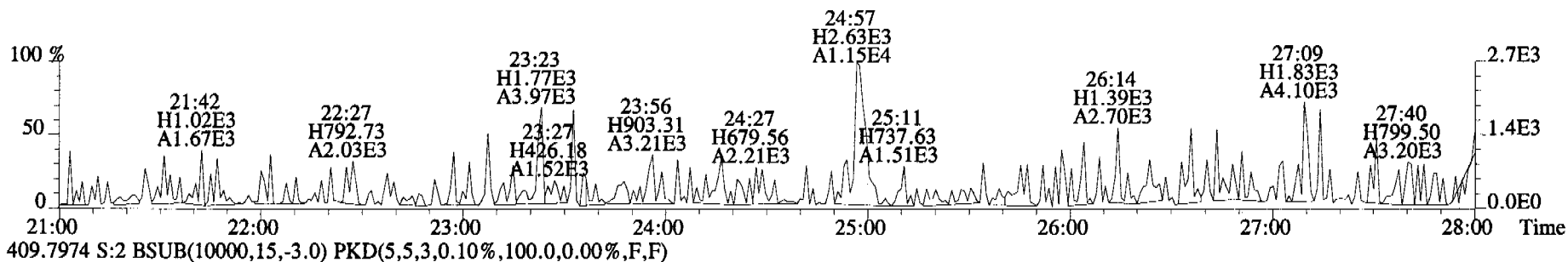
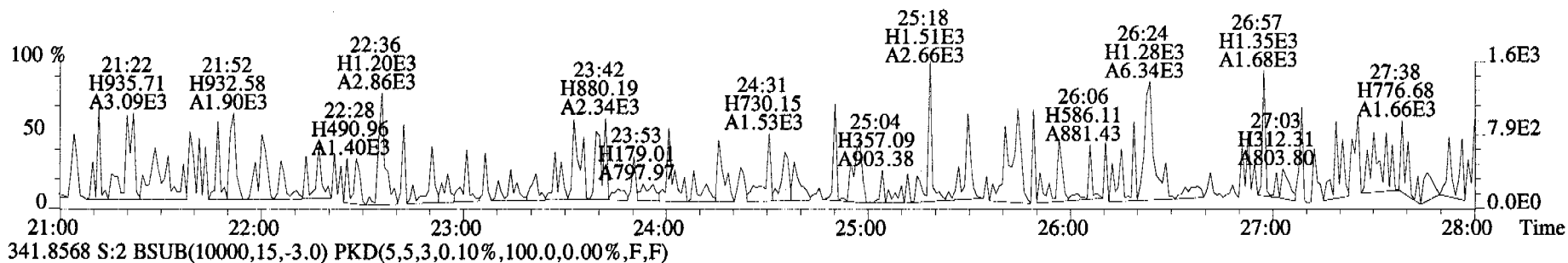
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Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



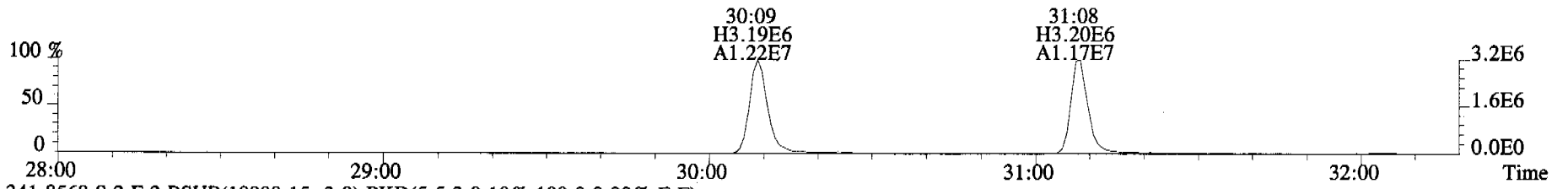
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303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



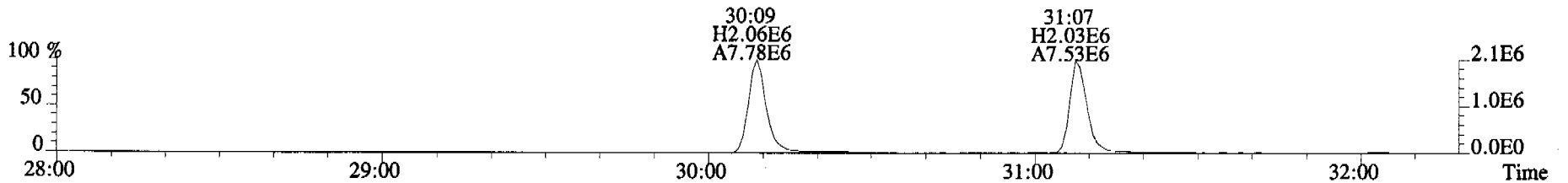
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Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD\_DB5  
339.8597 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



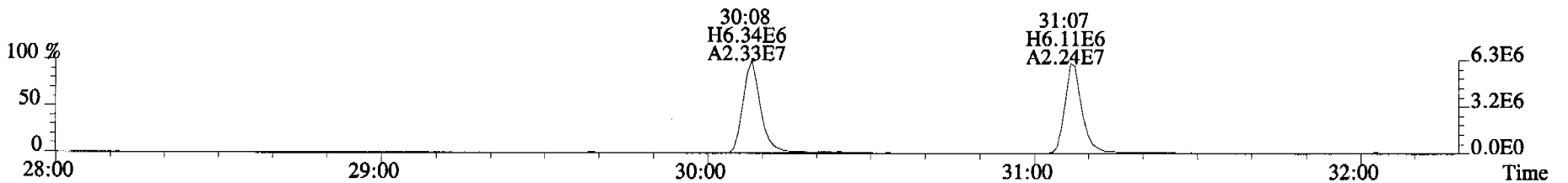
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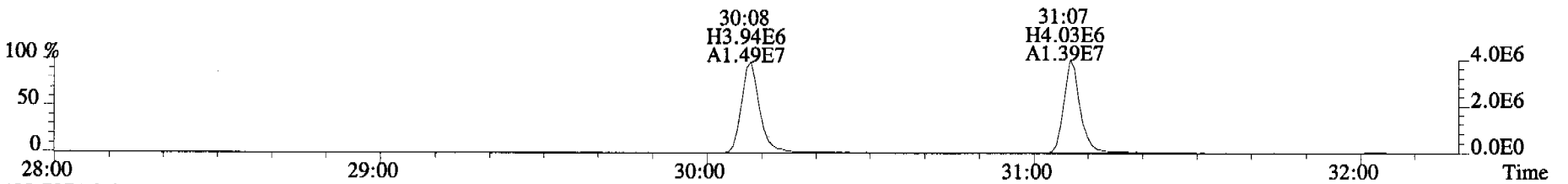
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



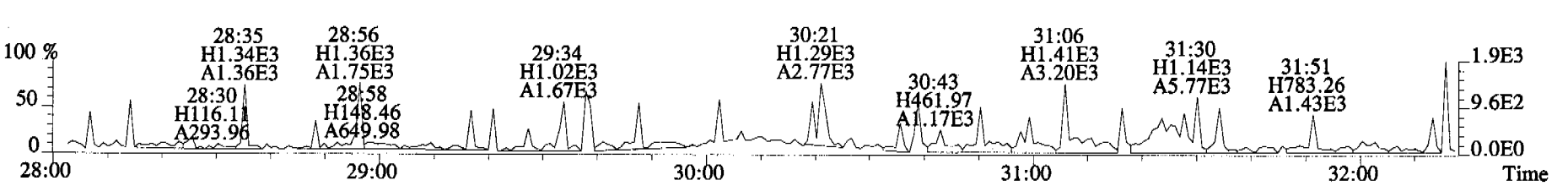
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



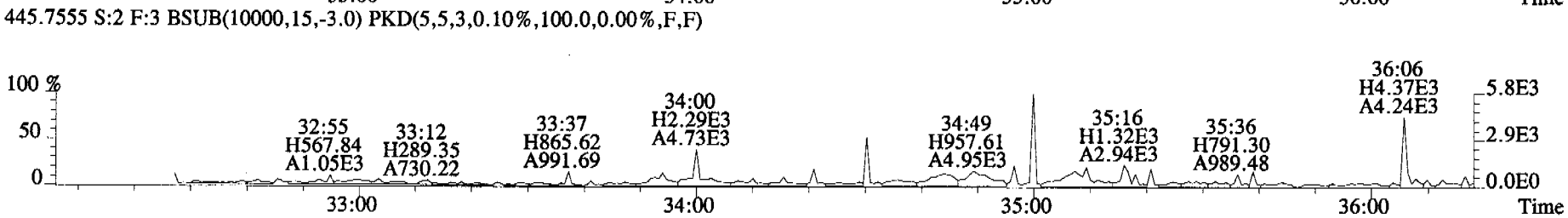
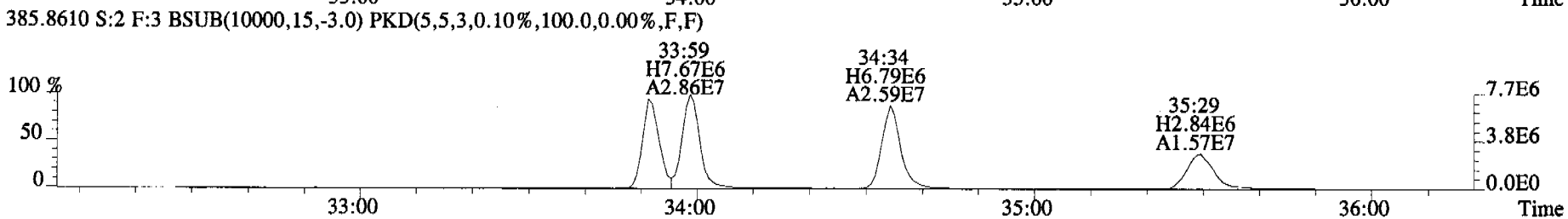
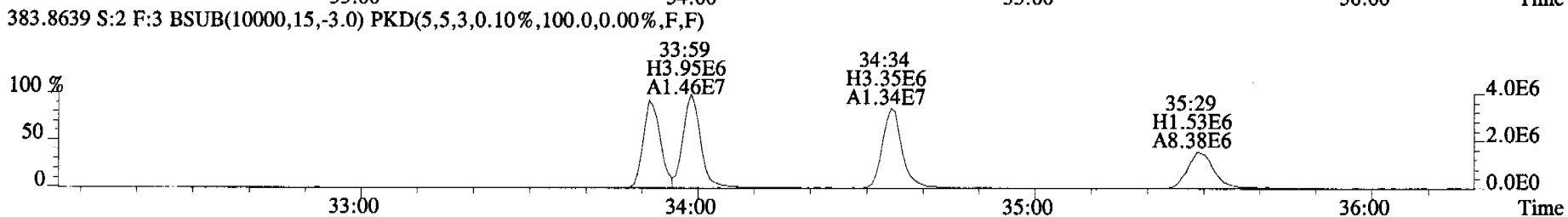
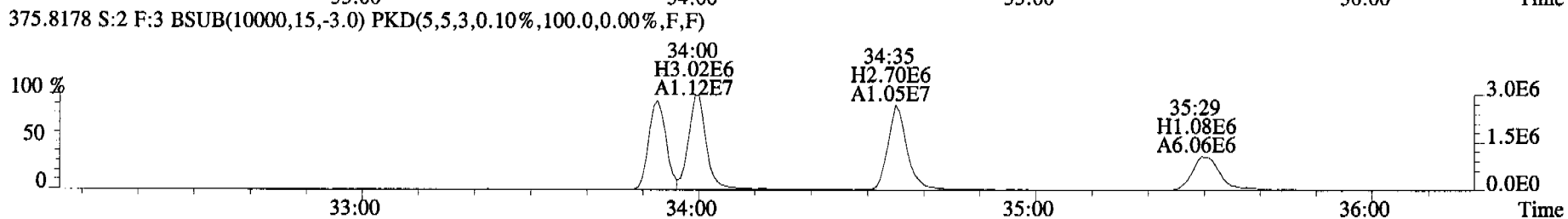
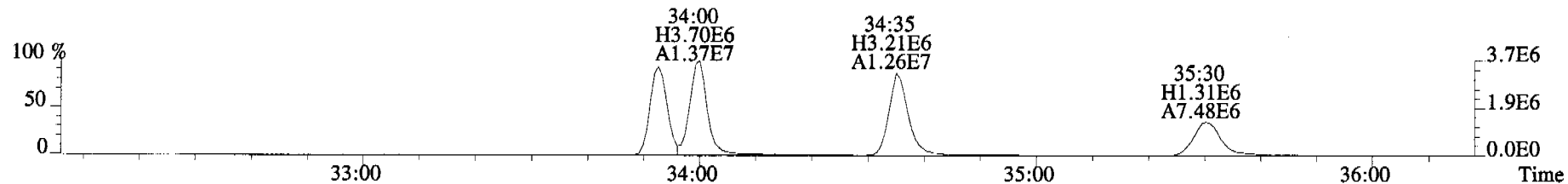
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



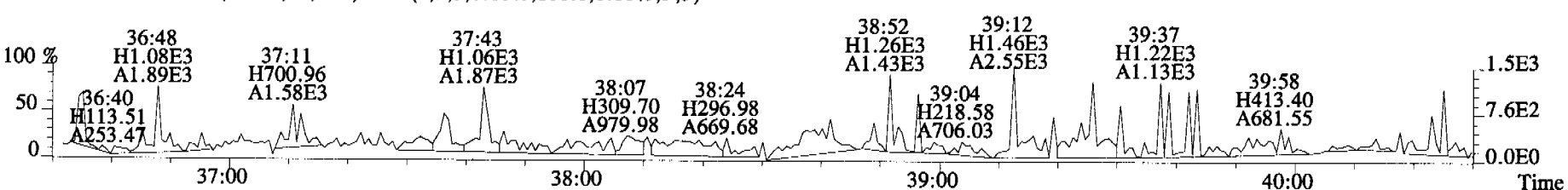
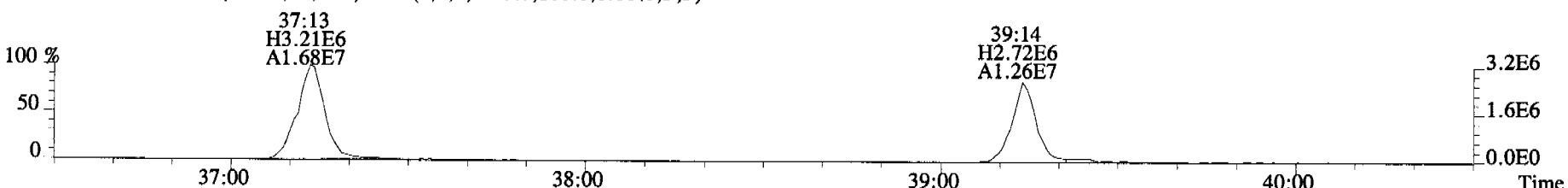
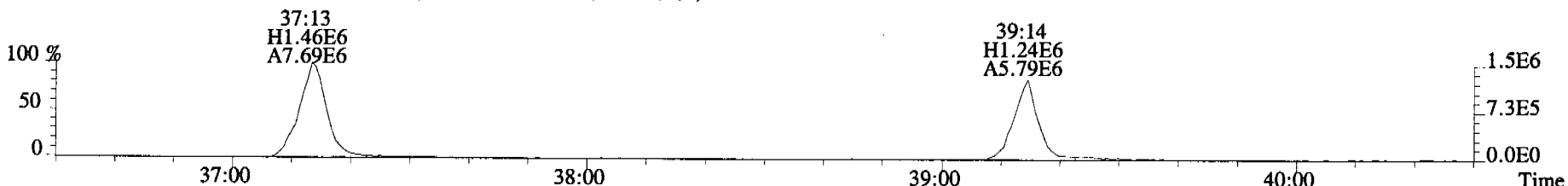
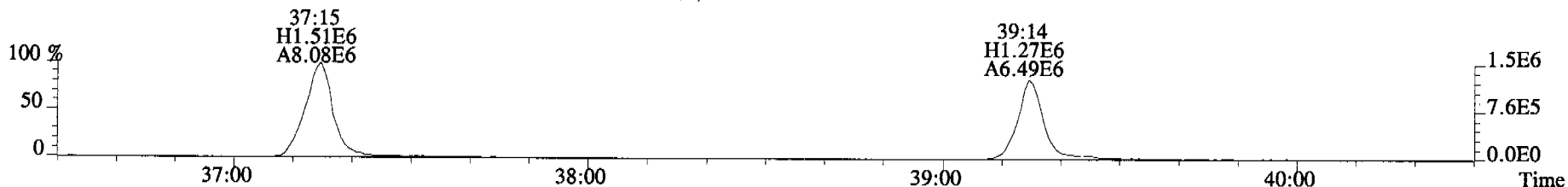
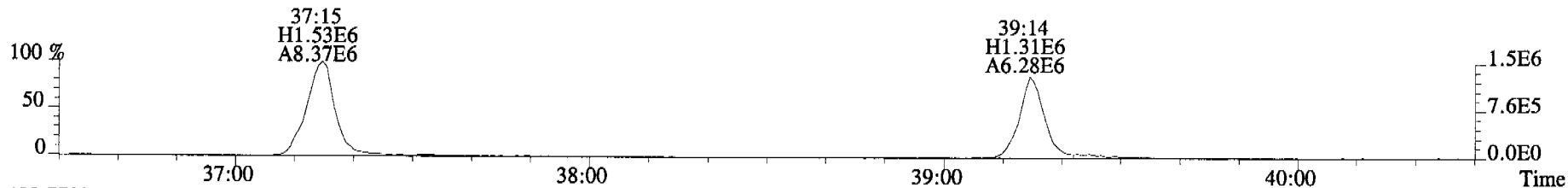
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File: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)

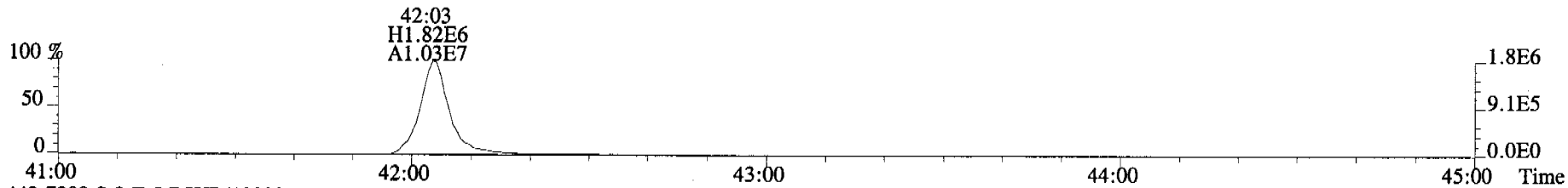


File:060920C2 #1-400 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

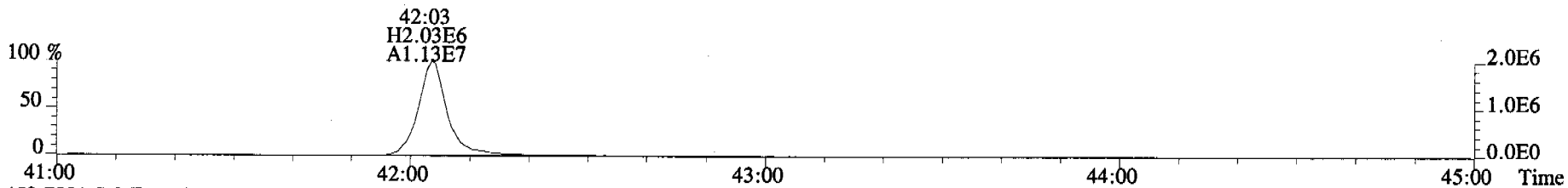




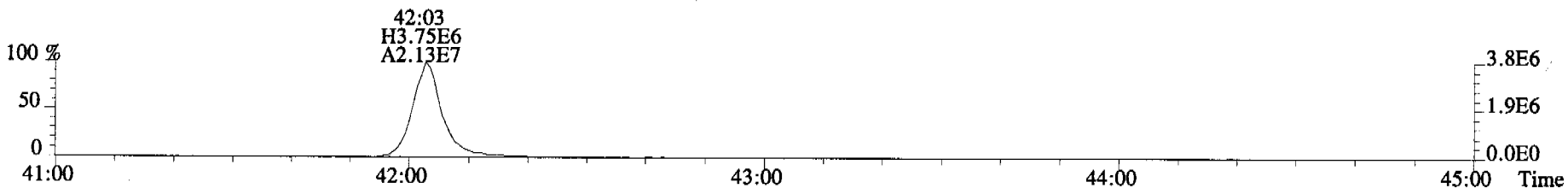
File:060920C2 #1-345 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD\_DB5  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



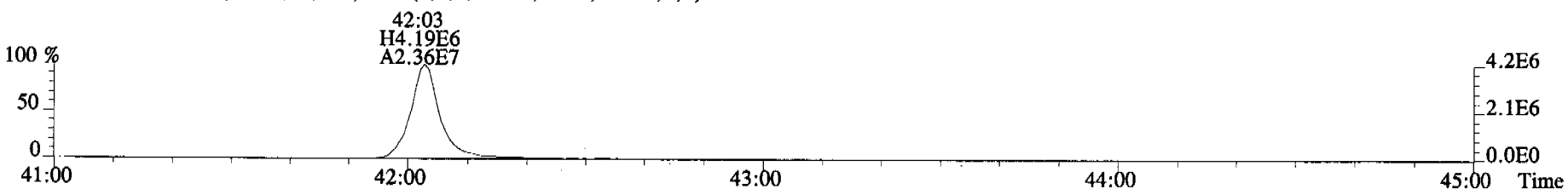
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



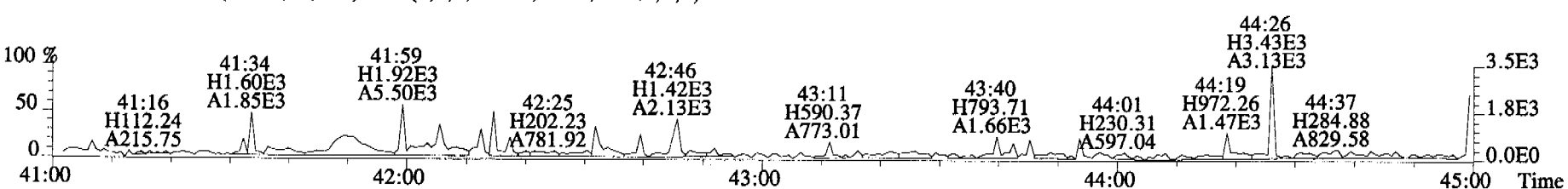
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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 | Fac | DL   |
|---------------------|----------|--------|------|-------------|--------|------|-------|-----|------|
| 2,3,7,8-TCDD        | *        | * n    | 1.08 | NotF $\eta$ | *      |      | 1030  | 2.5 | 1.34 |
| 1,2,3,7,8-PeCDD     | *        | * n    | 1.03 | NotF $\eta$ | *      |      | 2570  | 2.5 | 3.23 |
| 1,2,3,4,7,8-HxCDD   | *        | * n    | 1.13 | NotF $\eta$ | *      |      | 1450  | 2.5 | 2.54 |
| 1,2,3,6,7,8-HxCDD   | *        | * n    | 1.03 | NotF $\eta$ | *      |      | 1450  | 2.5 | 2.62 |
| 1,2,3,7,8,9-HxCDD   | *        | * n    | 1.12 | NotF $\eta$ | *      |      | 1450  | 2.5 | 2.49 |
| 1,2,3,4,6,7,8-HpCDD | 6.93e+04 | 1.32 n | 1.02 | 38:42       | 5.6017 |      | *     | 2.5 | *    |
| OCDD                | 4.82e+05 | 0.81 y | 1.06 | 41:54       | 50.732 |      | *     | 2.5 | *    |
| 2,3,7,8-TCDF        | *        | * n    | 1.06 | NotF $\eta$ | *      |      | 1450  | 2.5 | 1.48 |
| 1,2,3,7,8-PeCDF     | *        | * n    | 1.01 | NotF $\eta$ | *      |      | 2260  | 2.5 | 3.16 |
| 2,3,4,7,8-PeCDF     | *        | * n    | 1.02 | NotF $\eta$ | *      |      | 2260  | 2.5 | 3.39 |
| 1,2,3,4,7,8-HxCDF   | *        | * n    | 1.15 | NotF $\eta$ | *      |      | 2160  | 2.5 | 1.78 |
| 1,2,3,6,7,8-HxCDF   | *        | * n    | 1.14 | NotF $\eta$ | *      |      | 2160  | 2.5 | 1.66 |
| 2,3,4,6,7,8-HxCDF   | *        | * n    | 1.17 | NotF $\eta$ | *      |      | 2160  | 2.5 | 2.08 |
| 1,2,3,7,8,9-HxCDF   | *        | * n    | 1.10 | NotF $\eta$ | *      |      | 2160  | 2.5 | 3.99 |
| 1,2,3,4,6,7,8-HpCDF | *        | * n    | 1.31 | NotF $\eta$ | *      |      | 1750  | 2.5 | 2.27 |
| 1,2,3,4,7,8,9-HpCDF | *        | * n    | 1.33 | NotF $\eta$ | *      |      | 719   | 2.5 | 1.09 |
| OCDF                | *        | * n    | 0.91 | NotF $\eta$ | *      |      | 1710  | 2.5 | 5.48 |

| Name                | Conc   | EMPC   | Qual | noise | DL   |
|---------------------|--------|--------|------|-------|------|
| Total Tetra-Dioxins | *      | *      |      | 1030  | 1.34 |
| Total Penta-Dioxins | *      | *      |      | 4670  | 5.88 |
| Total Hexa-Dioxins  | *      | *      |      | 1450  | 2.55 |
| Total Hepta-Dioxins | 5.7236 | 11.325 |      | *     | *    |
| Total Tetra-Furans  | *      | *      |      | 1450  | 1.48 |
| Total Penta-Furans  | 0.0000 | 0.0000 |      | 2260  | 3.27 |
| Total Hexa-Furans   | *      | *      |      | 2160  | 2.25 |
| Total Hepta-Furans  | *      | *      |      | 1750  | 2.44 |

|    |                         |          |        |      |       |        |
|----|-------------------------|----------|--------|------|-------|--------|
| IS | 13C-2,3,7,8-TCDD        | 3.15e+07 | 0.81 y | 1.09 | 26:26 | 1218.7 |
| IS | 13C-1,2,3,7,8-PeCDD     | 2.51e+07 | 0.63 y | 1.04 | 31:27 | 1015.4 |
| IS | 13C-1,2,3,4,7,8-HxCDD   | 1.91e+07 | 1.15 y | 0.83 | 34:45 | 1098.2 |
| IS | 13C-1,2,3,6,7,8-HxCDD   | 2.61e+07 | 1.28 y | 1.04 | 34:52 | 1198.3 |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 2.38e+07 | 1.05 y | 0.85 | 38:41 | 1334.5 |
| IS | 13C-OCDD                | 3.53e+07 | 0.90 y | 0.71 | 41:54 | 2355.9 |
| IS | 13C-2,3,7,8-TCDF        | 4.36e+07 | 0.80 y | 0.96 | 25:32 | 1272.6 |
| IS | 13C-1,2,3,7,8-PeCDF     | 3.54e+07 | 1.56 y | 1.02 | 30:10 | 974.41 |
| IS | 13C-2,3,4,7,8-PeCDF     | 3.31e+07 | 1.58 y | 1.02 | 31:10 | 907.15 |
| IS | 13C-1,2,3,4,7,8-HxCDF   | 2.85e+07 | 0.53 y | 1.14 | 33:54 | 1185.4 |
| IS | 13C-1,2,3,6,7,8-HxCDF   | 3.29e+07 | 0.53 y | 1.40 | 34:01 | 1120.5 |
| IS | 13C-2,3,4,6,7,8-HxCDF   | 2.87e+07 | 0.51 y | 1.26 | 34:37 | 1083.6 |
| IS | 13C-1,2,3,7,8,9-HxCDF   | 2.24e+07 | 0.52 y | 1.08 | 35:33 | 986.13 |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 2.31e+07 | 0.44 y | 0.93 | 37:17 | 1179.1 |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 1.84e+07 | 0.46 y | 0.77 | 39:17 | 1146.0 |
| IS | 13C-OCDF                | 3.97e+07 | 0.90 y | 0.94 | 42:06 | 2005.7 |

Rec Qual

|      |
|------|
| 62.3 |
| 51.9 |
| 56.1 |
| 61.2 |
| 68.2 |
| 60.2 |
| 65.0 |
| 49.8 |
| 46.4 |
| 60.6 |
| 57.3 |
| 55.4 |
| 50.4 |
| 60.3 |
| 58.6 |
| 51.2 |

|       |                       |          |        |      |       |        |
|-------|-----------------------|----------|--------|------|-------|--------|
| C/Up  | 37C1-2,3,7,8-TCDD     | 1.10e+07 |        | 0.77 | 26:27 | 602.05 |
| RS/RT | 13C-1,2,3,4-TCDD      | 4.63e+07 | 0.80 y | 1.00 | 25:43 | 1956.9 |
| RS    | 13C-1,2,3,4-TCDF      | 6.99e+07 | 0.79 y | 1.00 | 23:57 | 1956.9 |
| RS/RT | 13C-1,2,3,7,8,9-HxCDD | 4.11e+07 | 1.25 y | 1.00 | 35:10 | 1956.9 |

Integrations

by Analyst: MS

Date: 9/21/06

Reviewed

by Analyst: af

Date: 9/21/06

Totals class: HpCDD EMPC

Entry #: 25

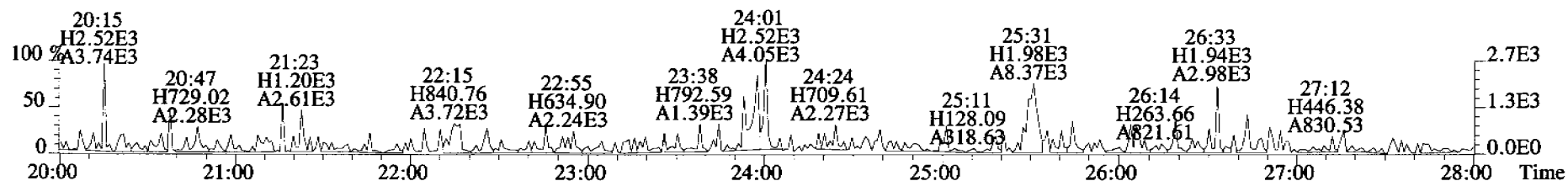
Run: 14 File: 060920C2 S: 9 I: 1 F: 4  
Acquired: 20-SEP-06 21:51:37 Processed: 21-SEP-06 07:06:55

Total Concentration: 11.325

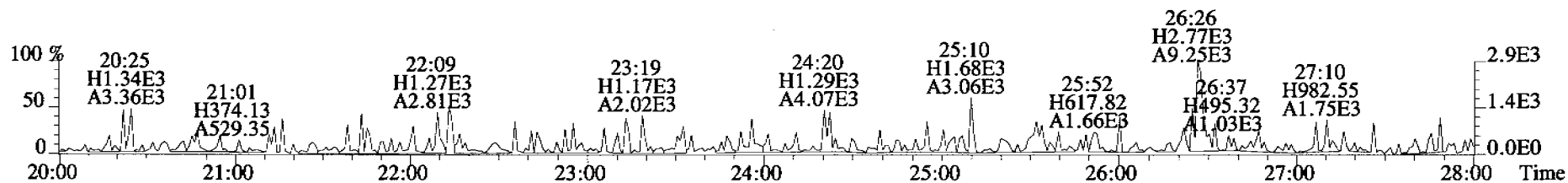
Unnamed Concentration: 5.724

| RT    | m1 Resp   | m2 Resp   | RA   |   | Resp      | Concentration | Name                |
|-------|-----------|-----------|------|---|-----------|---------------|---------------------|
| 37:40 | 3.681e+04 | 3.397e+04 | 1.08 | y | 7.078e+04 | 5.7236        |                     |
| 38:42 | 4.480e+04 | 3.396e+04 | 1.32 | n | 6.927e+04 | 5.6017        | 1,2,3,4,6,7,8-HpCDD |

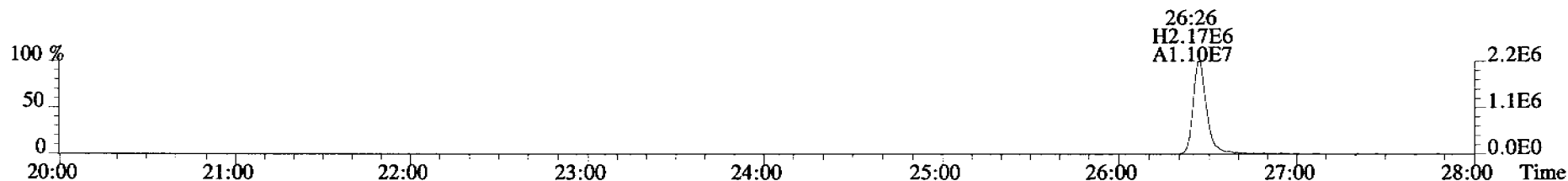
File:060920C2 #1-546 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



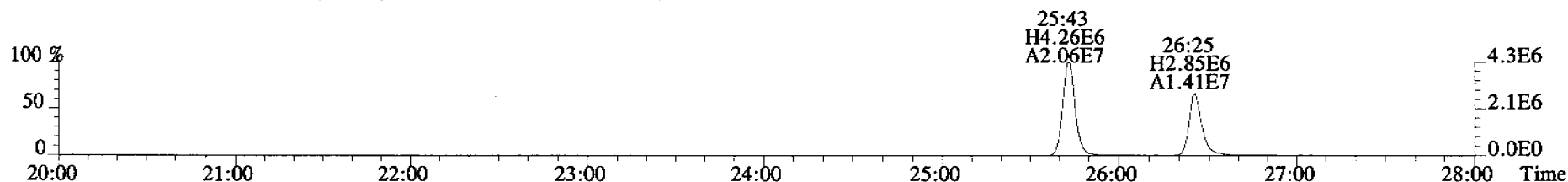
321.8936 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



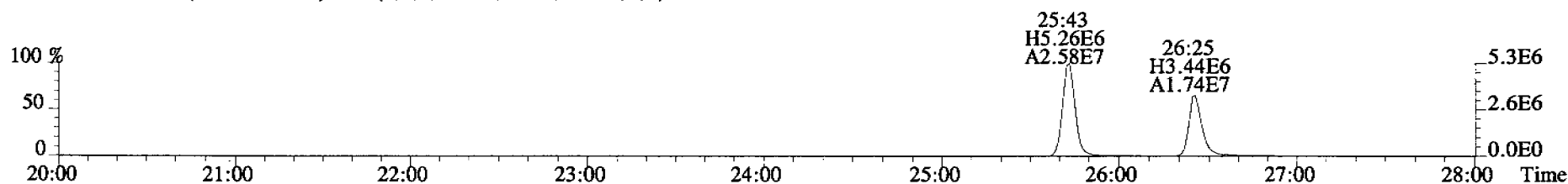
327.8847 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



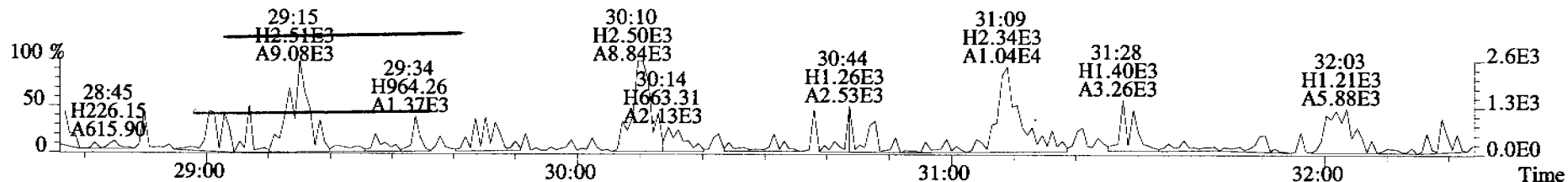
331.9368 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



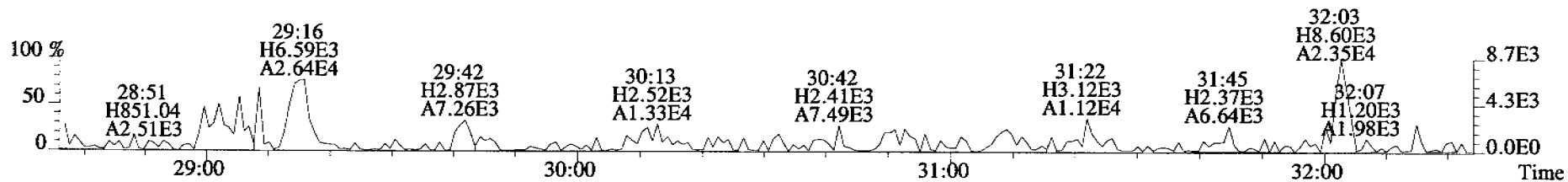
333.9339 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



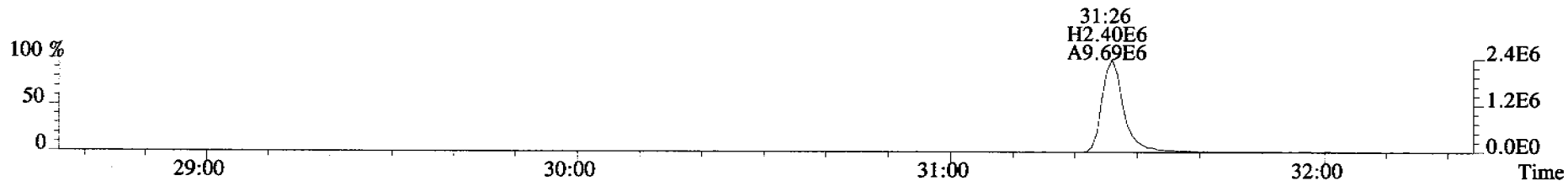
File:060920C2 #1-324 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
 353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



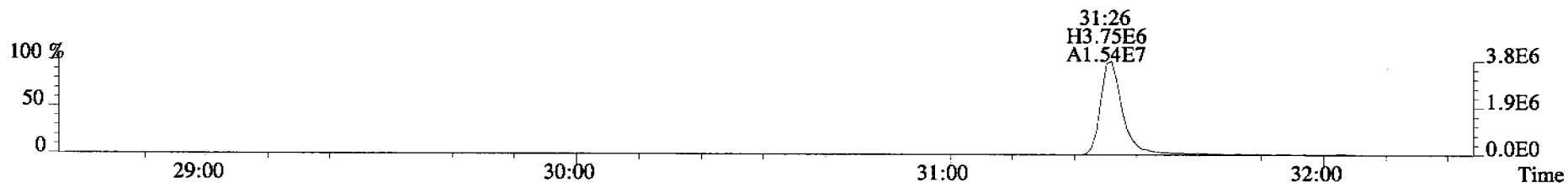
355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



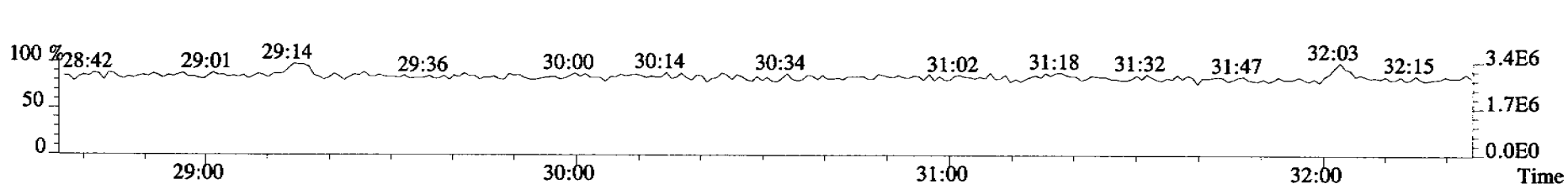
365.8978 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



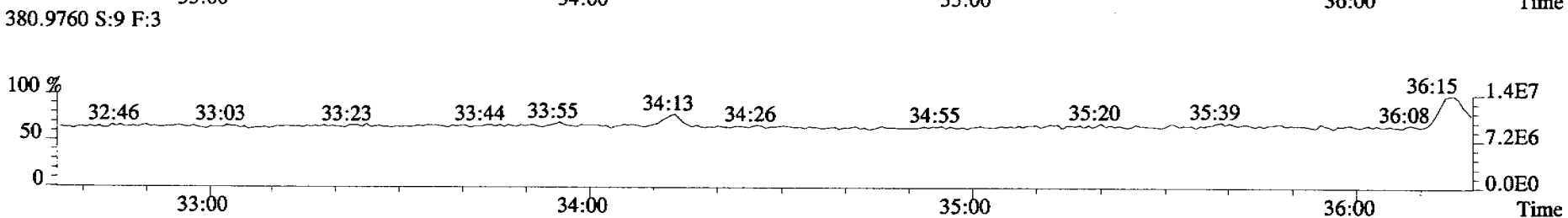
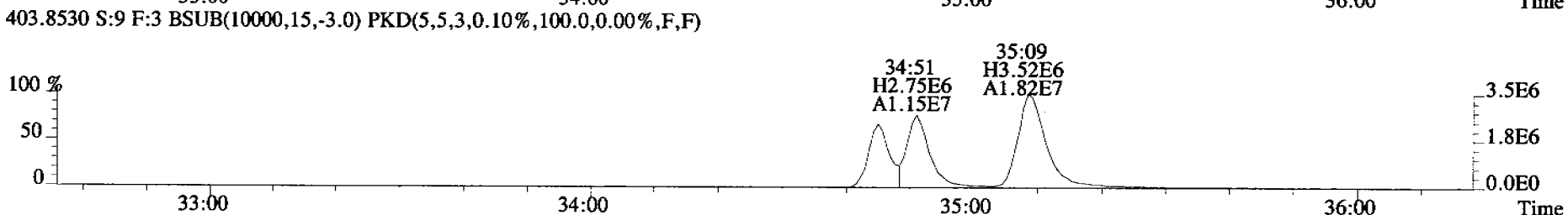
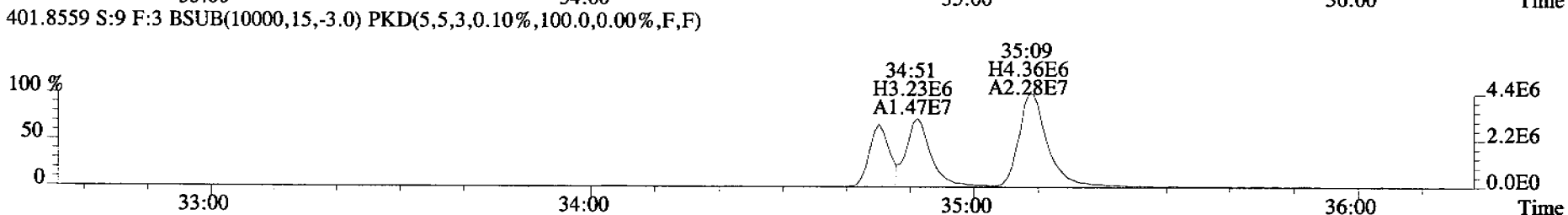
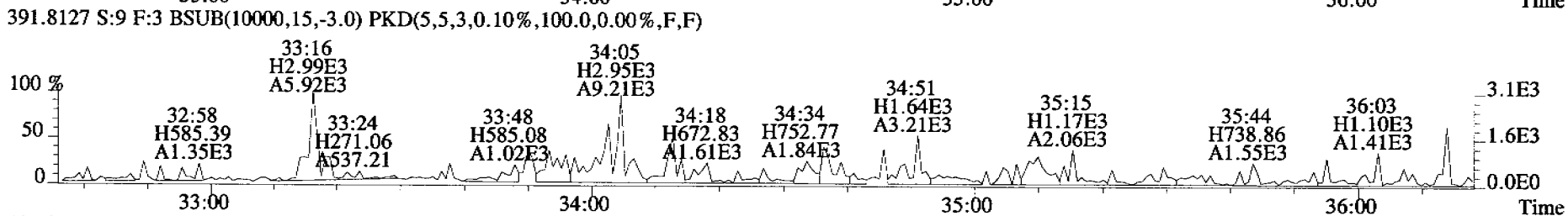
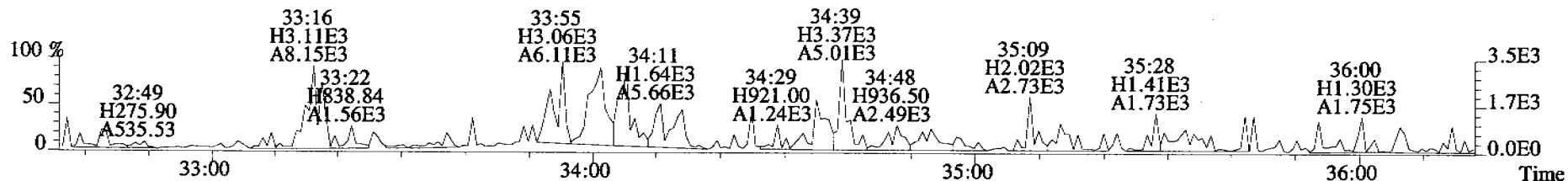
367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



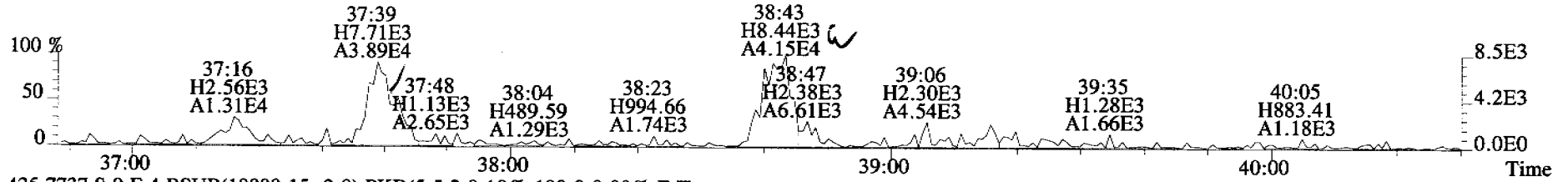
366.9792 S:9 F:2



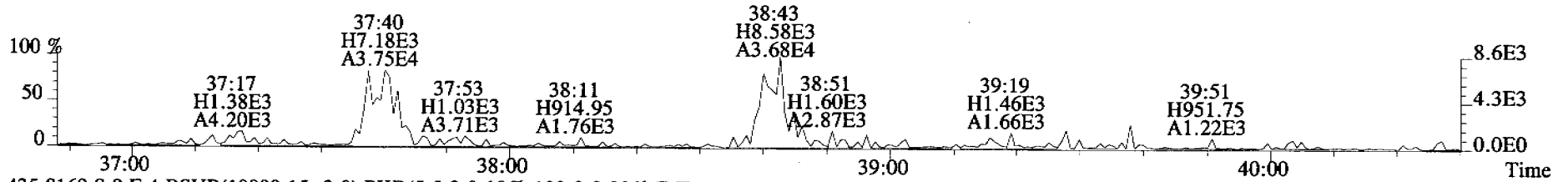
File:060920C2 #1-363 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



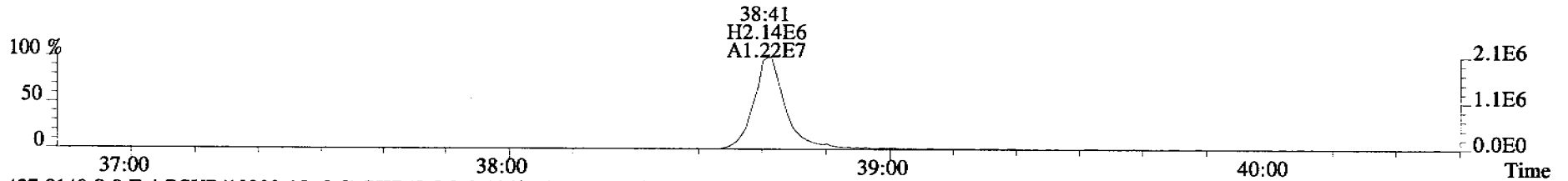
File:060920C2 #1-399 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



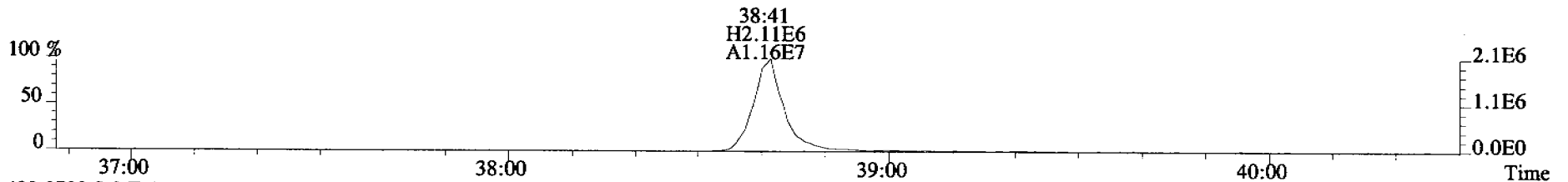
425.7737 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



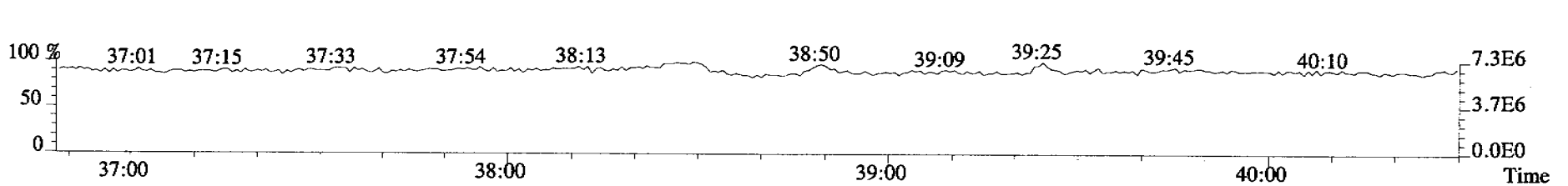
435.8169 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



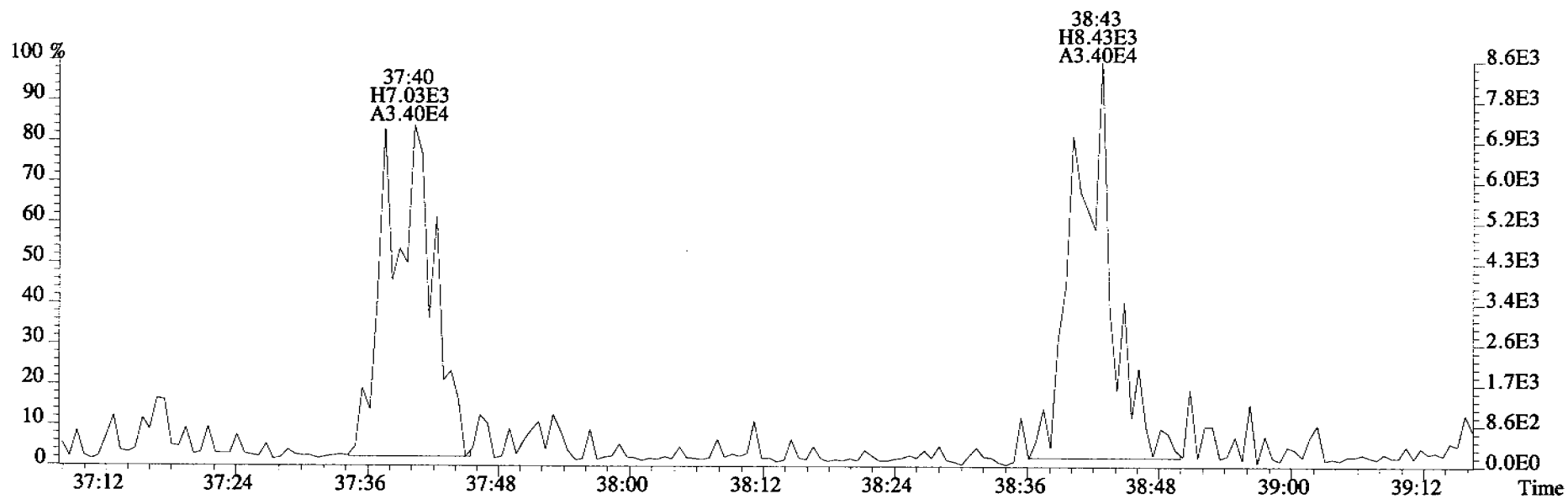
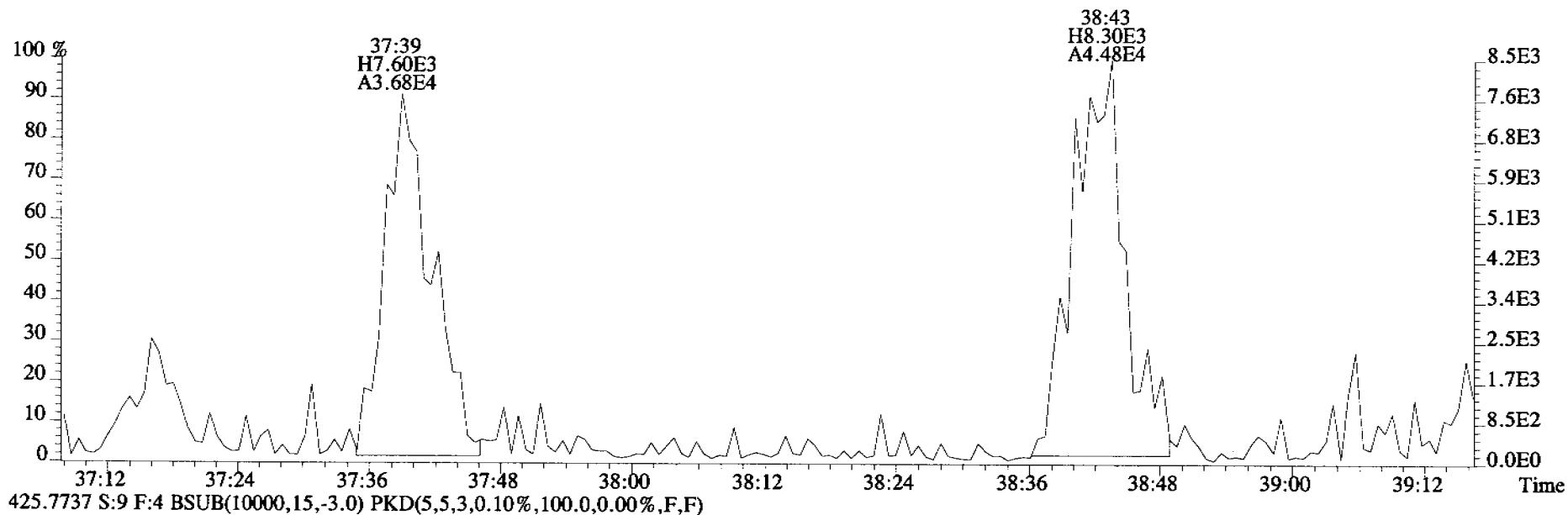
437.8140 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



430.9728 S:9 F:4

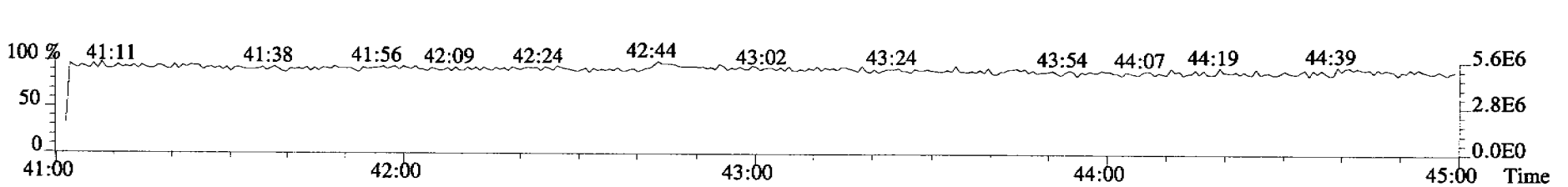
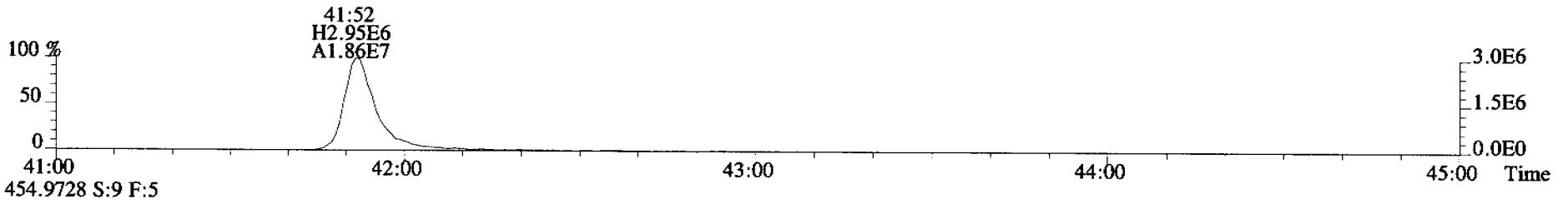
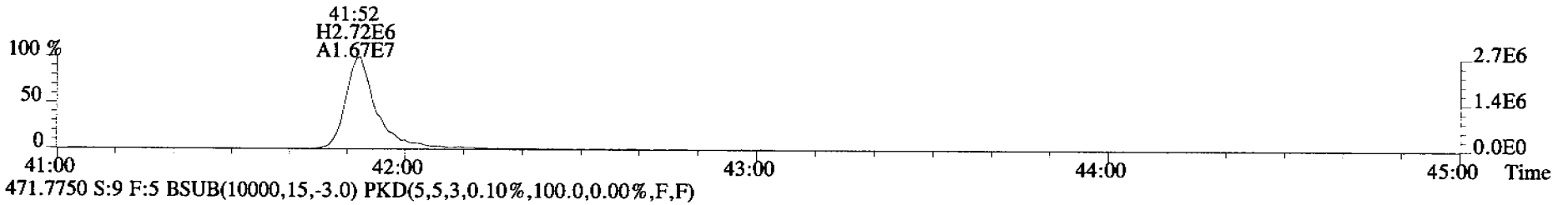
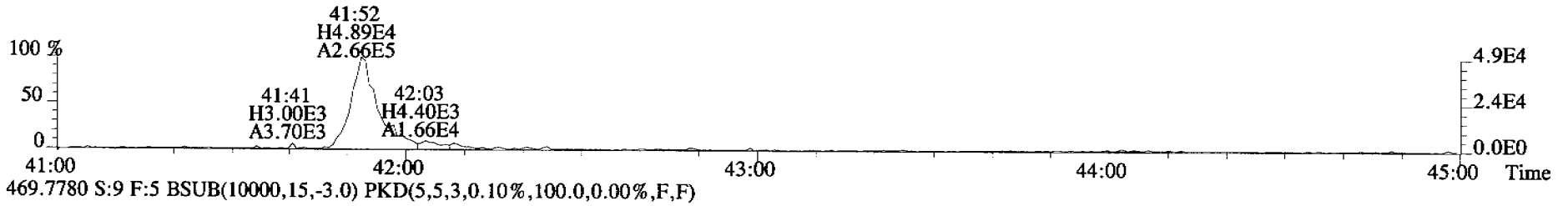
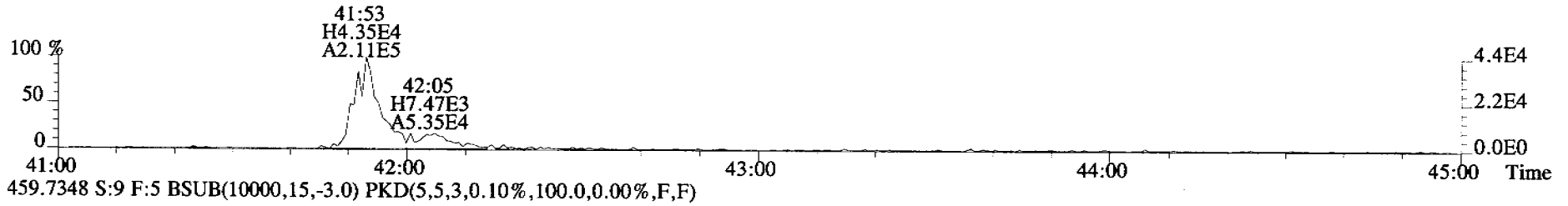


File:060920C2 #1-399 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110 8381 001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

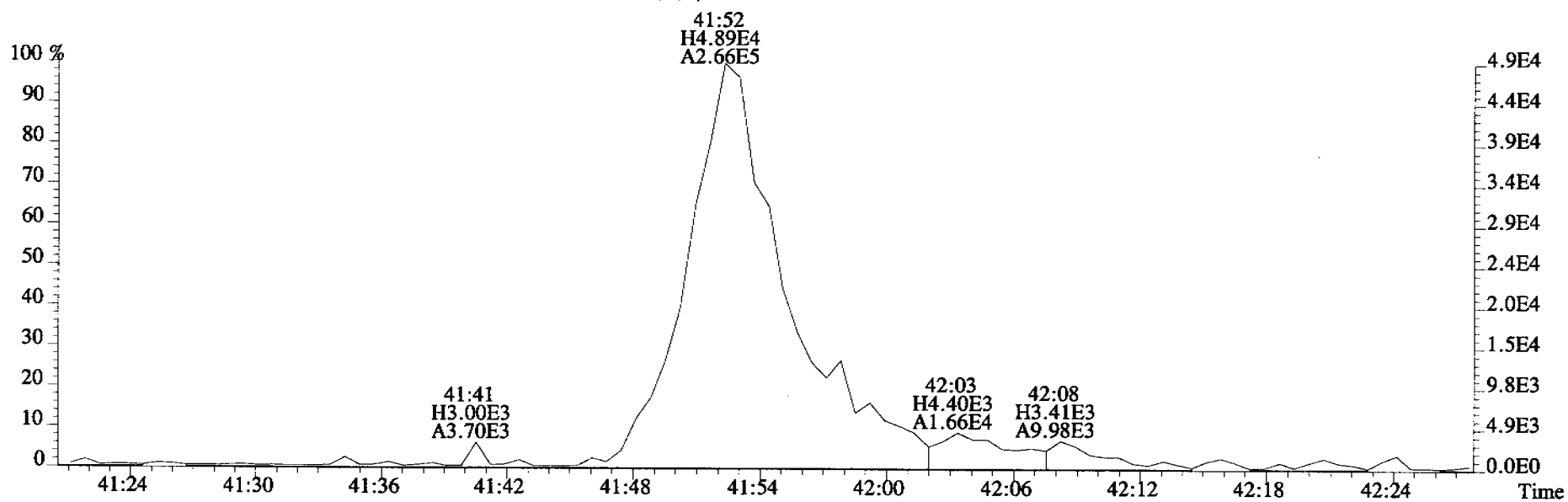
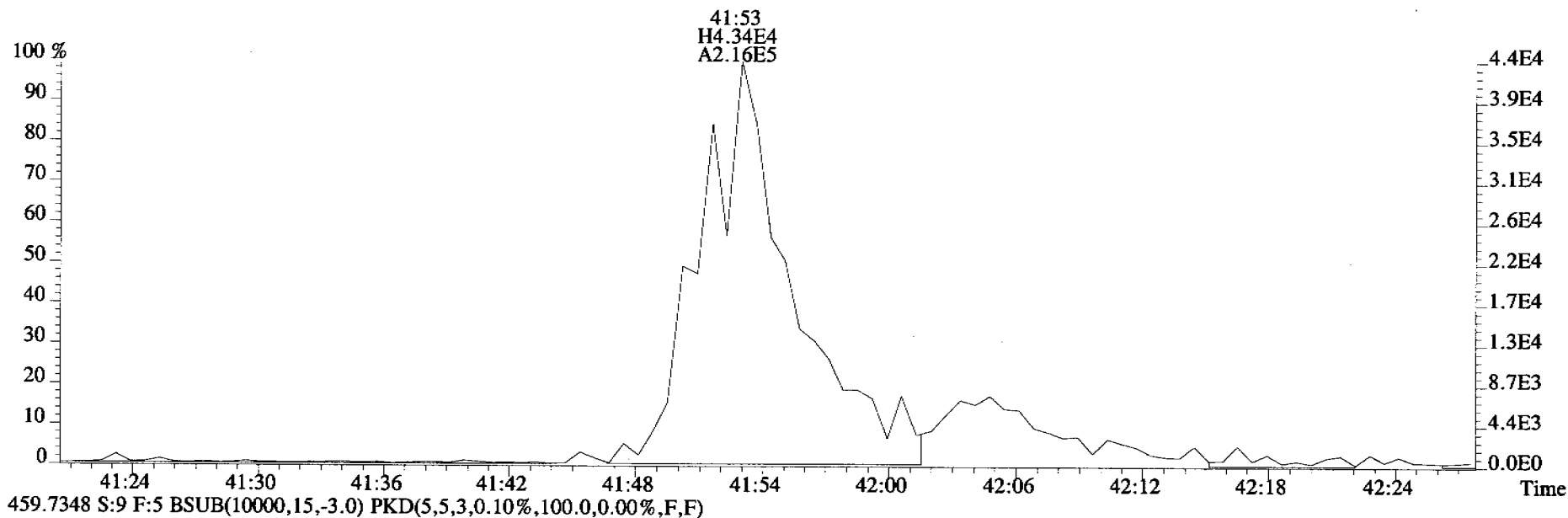




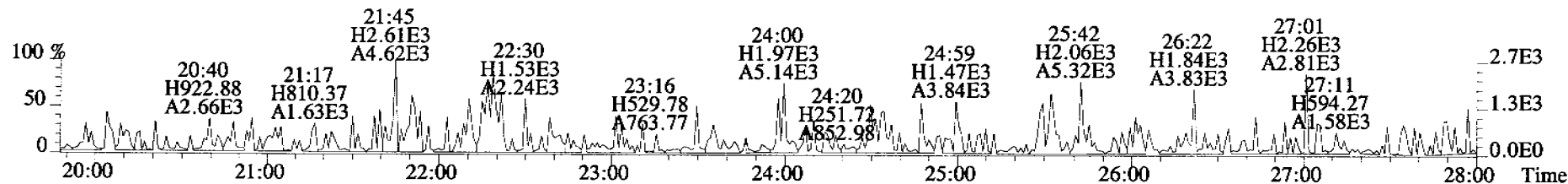
File:060920C2 #1-345 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



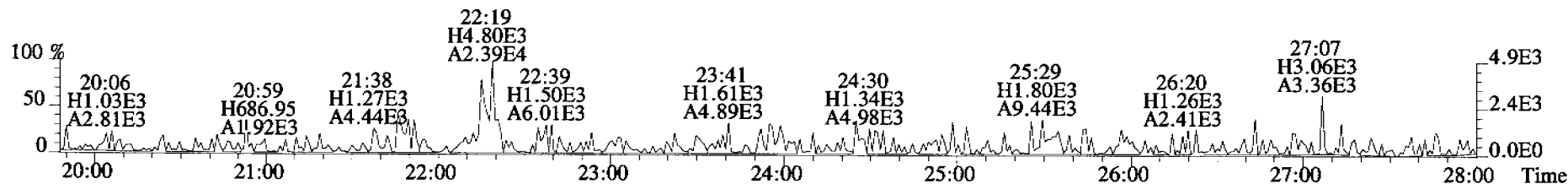
File:060920C2 #1-345 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110 8381 001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



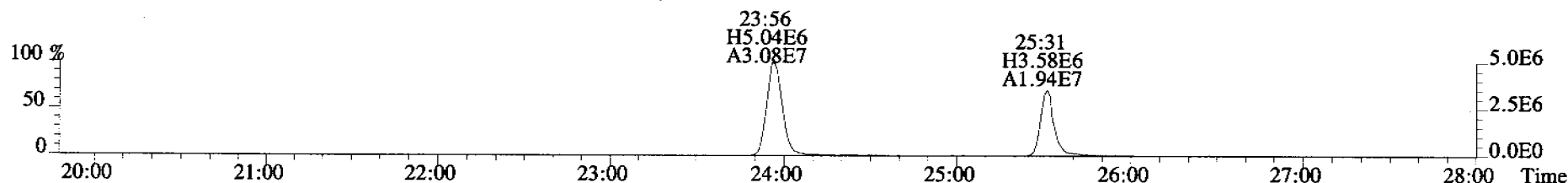
File:060920C2 #1-546 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



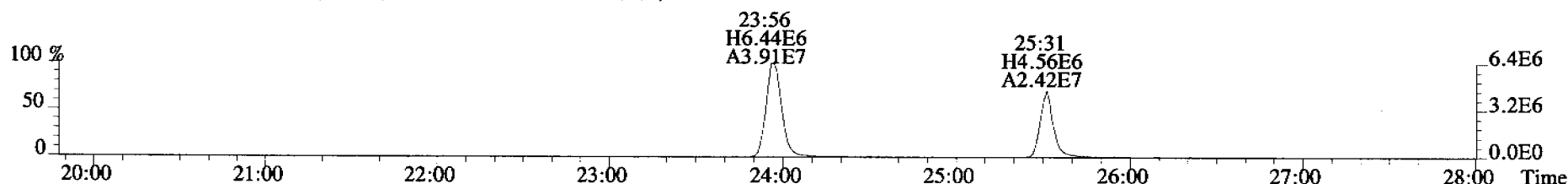
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



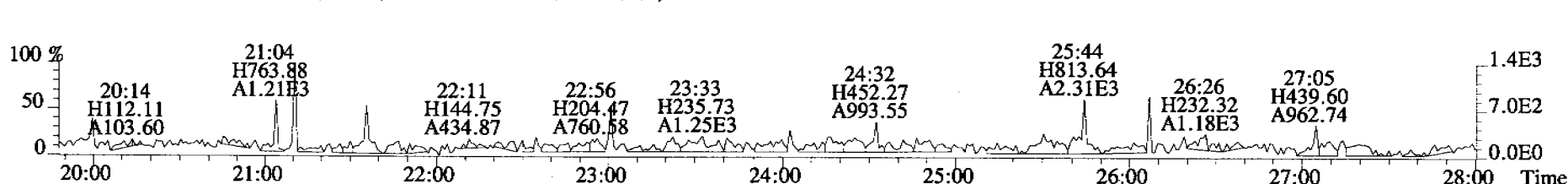
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



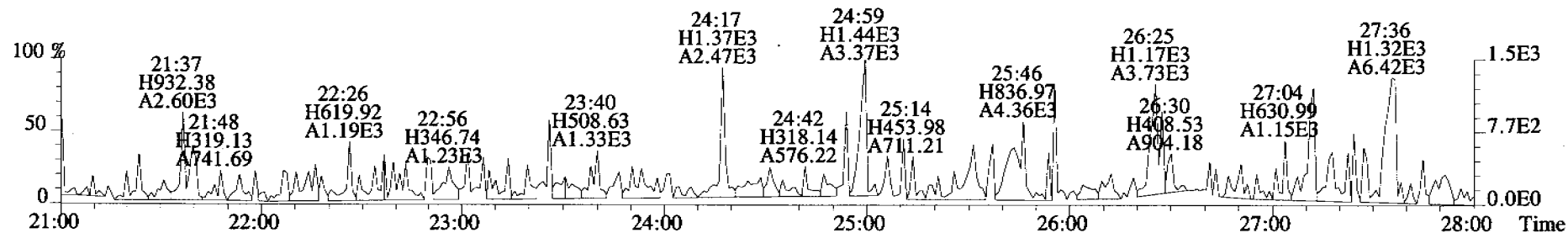
317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



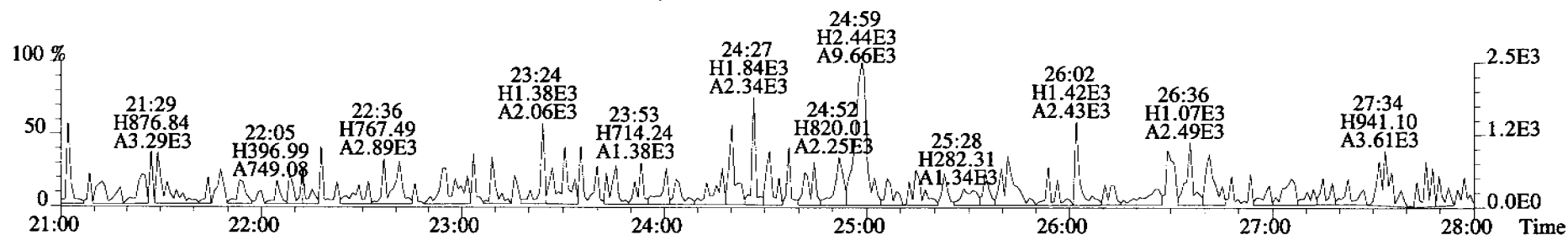
375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



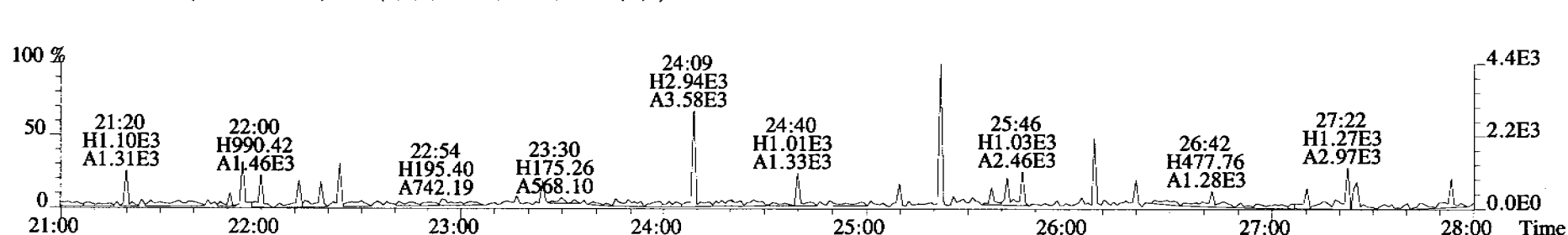
File:060920C2 #1-546 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Alta Analytical Laboratory Text:28110 8381 001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
 339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



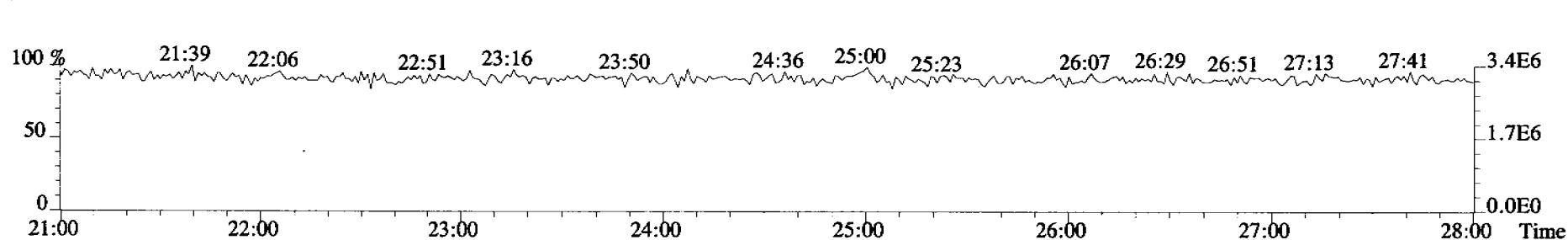
341.8568 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



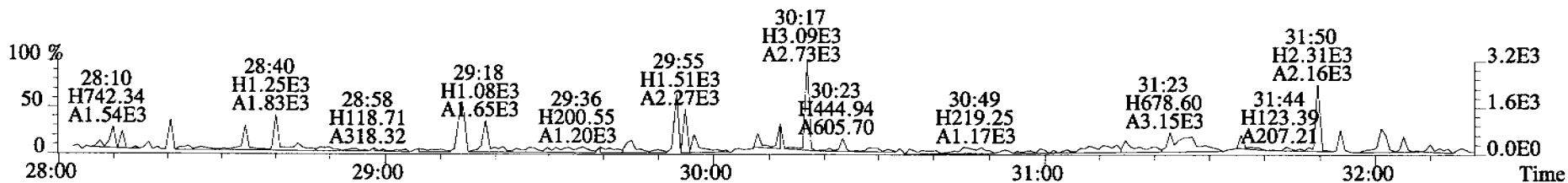
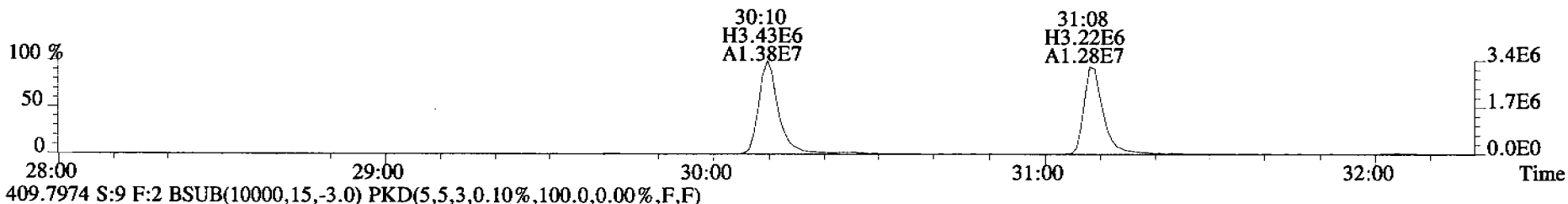
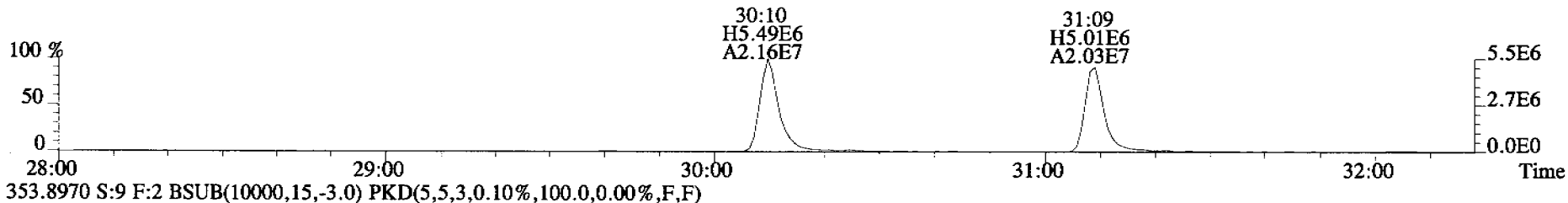
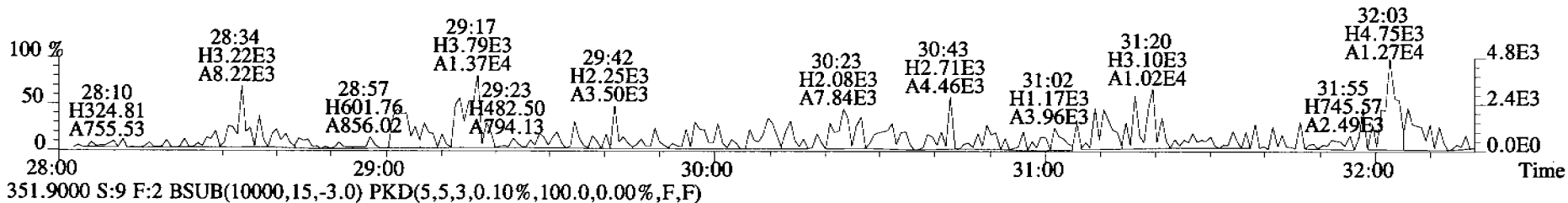
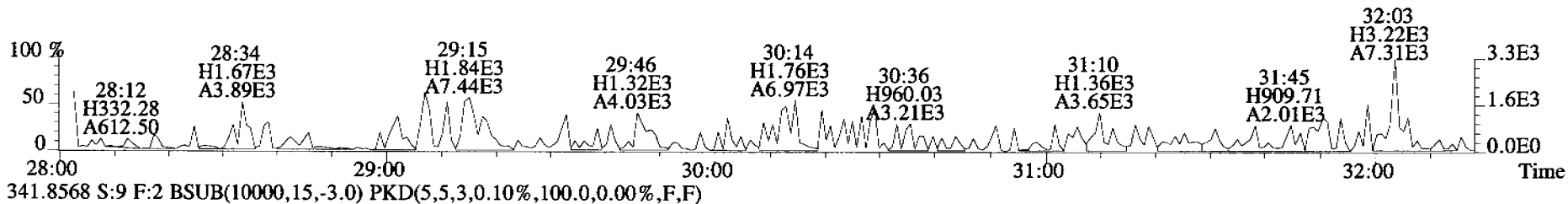
409.7974 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



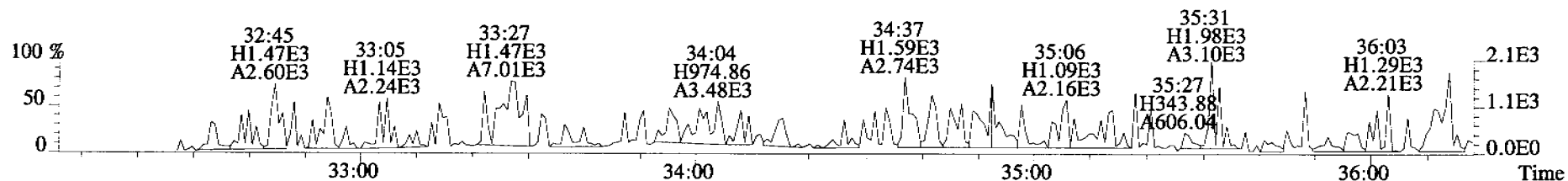
316.9824 S:9



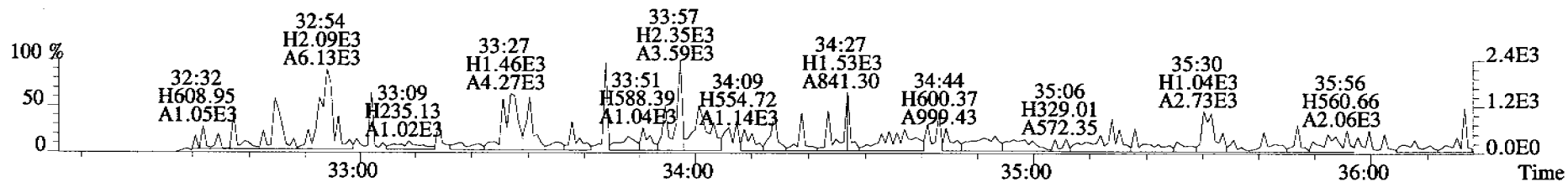
File:060920C2 #1-324 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
 339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



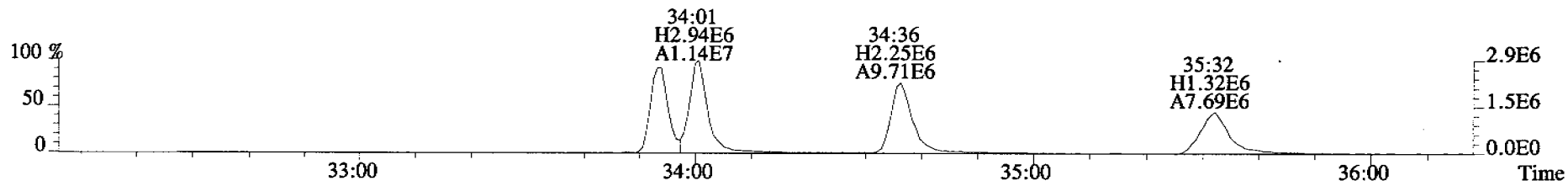
File:060920C2 #1-363 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



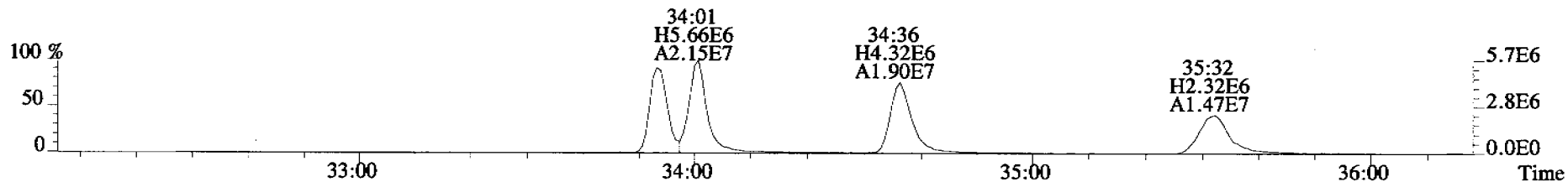
375.8178 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



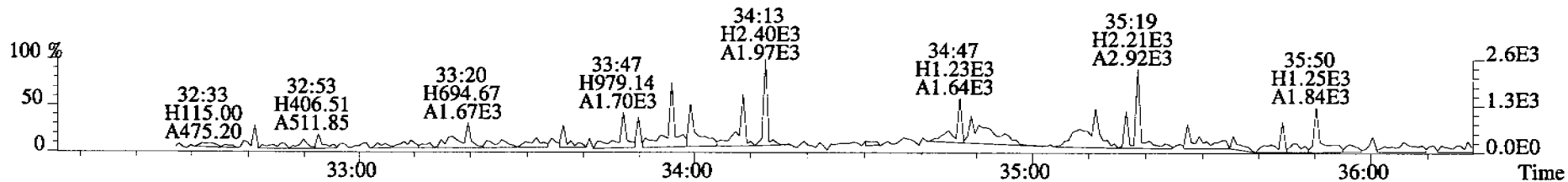
383.8639 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



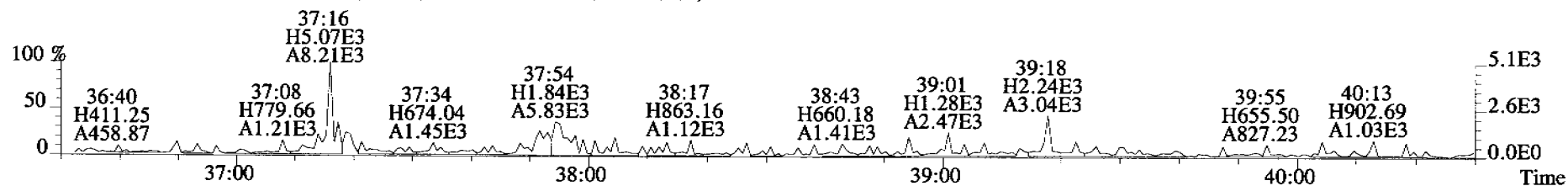
385.8610 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



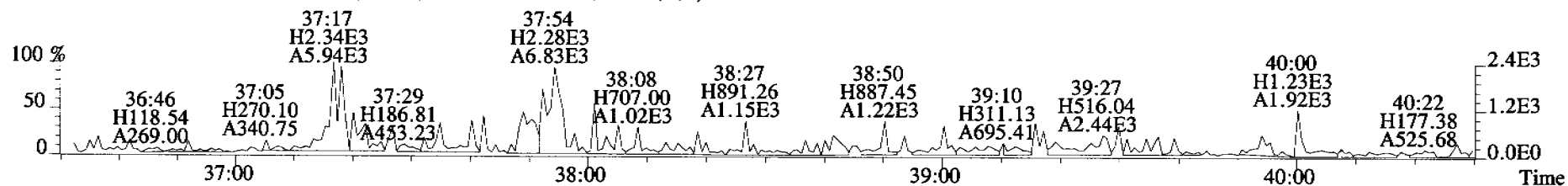
445.7555 S:9 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



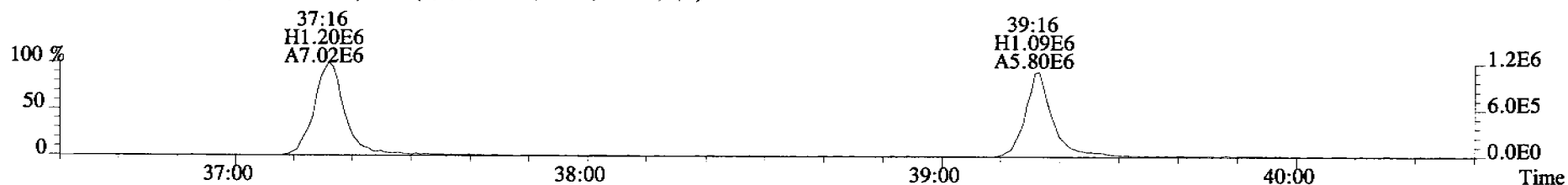
File:060920C2 #1-399 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



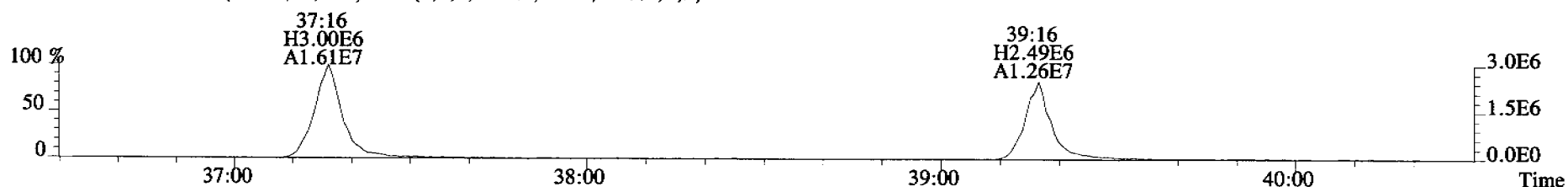
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



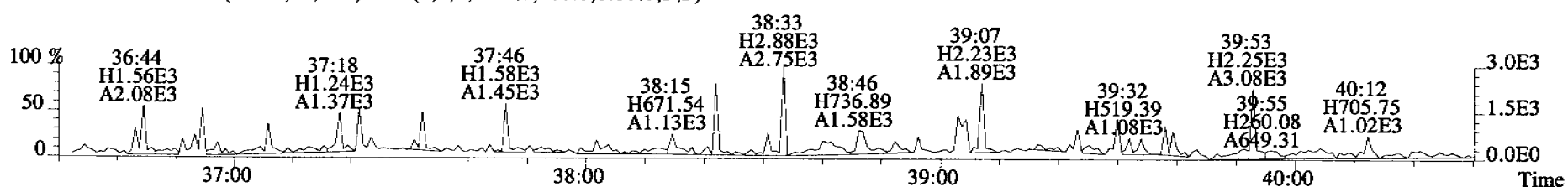
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



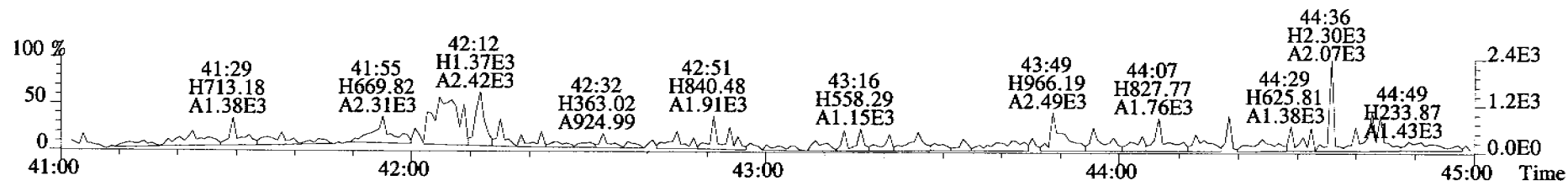
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



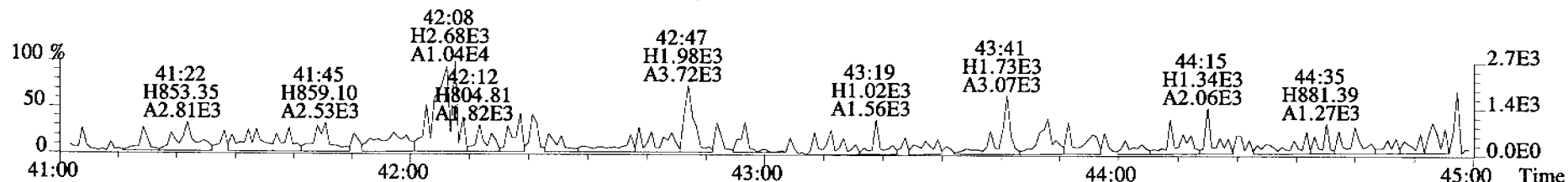
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



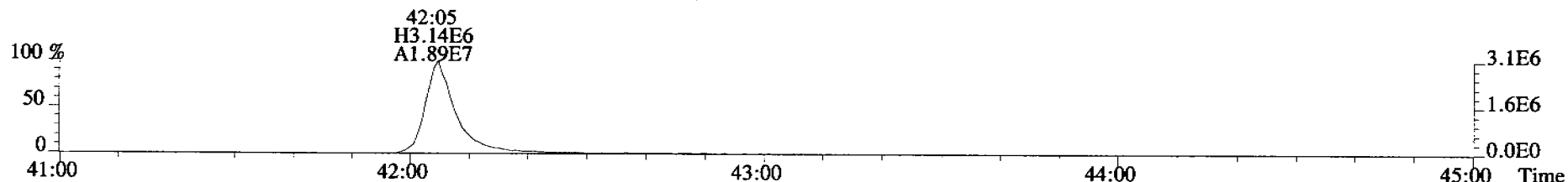
File:060920C2 #1-345 Acq:20-SEP-2006 21:51:37 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:28110\_8381\_001 IPI1295-01 1.0220L Exp:OCDD\_DB5  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



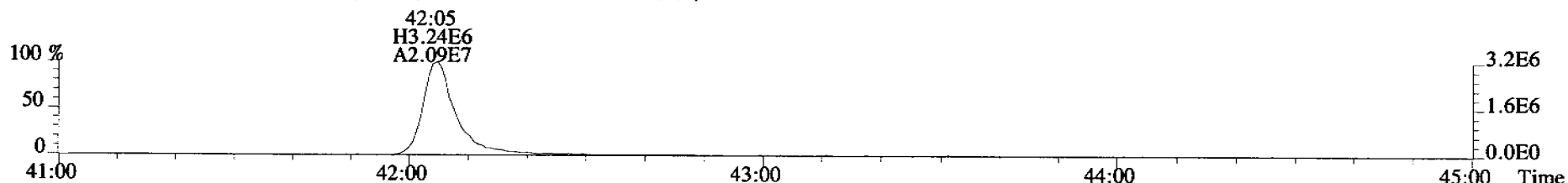
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



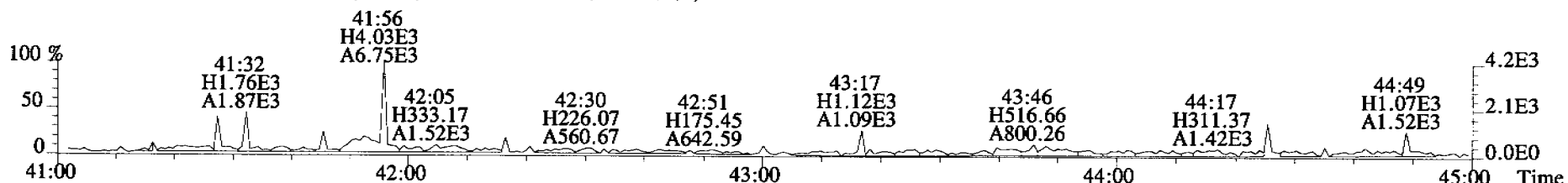
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)





## 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.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL) |
|---------------------|----------------------|-----------------|---------------|------|----------------|-------------------------------|
|                     | FORMING<br>RATIO (1) | ABUND.<br>RATIO | LIMITS<br>(2) |      |                |                               |
| 2,3,7,8-TCDD        | M/M+2                | 0.78            | 0.65-0.89     | y    | 10.00          | 7.8 - 12.9<br>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<br>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<br>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                     |  |
| 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                     | (4) No ion abundance ratio; report concentration found.  |
| 13C-OCDD                | M+2/M+4                 | 0.89             | 0.76-1.02     | y    | 194         | 96.0 - 415.0                     | (5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only. |
| 13C-2,3,7,8-TCDF        | M/M+2                   | 0.79             | 0.65-0.89     | y    | 107         | 71.0 - 140.0<br>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>mn</u>   |
| CLEANUP STANDARD (4)    |                         |                  |               |      |             |                                  | Date: <u>3/22/06</u>   |
| 37Cl-2,3,7,8-TCDD       |                         |                  |               |      | 10.1        | 7.9 - 12.7<br>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.<br>FOUND | CONC.<br>RANGE<br>(ng/mL) |
|---------------------|------------------|-----------------|-----------|------|----------------|---------------------------|
|                     | FORMING<br>RATIO | ABUND.<br>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: MWDate: 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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(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<br>RT | ISOMERS                 | ABSOLUTE<br>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)

&lt;25%

Analyst: AMDate: 3/23/06

(1) To meet contract requirements, %Valley Height Between Compared  
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

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-1,2,3,7,8,9-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

| Name                | Resp     | RA     | RRF  | RT    | Conc   | Qual | noise | Fac | DL |
|---------------------|----------|--------|------|-------|--------|------|-------|-----|----|
| 2,3,7,8-TCDD        | 1.79e+07 | 0.78 y | 1.08 | 26:33 | 9.9986 |      | *     | 2.5 | *  |
| 1,2,3,7,8-PeCDD     | 7.94e+07 | 0.63 y | 1.03 | 31:17 | 48.413 |      | *     | 2.5 | *  |
| 1,2,3,4,7,8-HxCDD   | 7.27e+07 | 1.23 y | 1.13 | 34:34 | 50.100 |      | *     | 2.5 | *  |
| 1,2,3,6,7,8-HxCDD   | 8.37e+07 | 1.27 y | 1.03 | 34:41 | 46.322 |      | *     | 2.5 | *  |
| 1,2,3,7,8,9-HxCDD   | 8.40e+07 | 1.24 y | 1.12 | 34:58 | 49.626 |      | *     | 2.5 | *  |
| 1,2,3,4,6,7,8-HpCDD | 6.84e+07 | 1.03 y | 1.02 | 38:31 | 50.200 |      | *     | 2.5 | *  |
| OCDD                | 1.16e+08 | 0.90 y | 1.06 | 41:47 | 98.413 |      | *     | 2.5 | *  |
| 2,3,7,8-TCDF        | 2.23e+07 | 0.77 y | 1.06 | 25:42 | 9.6429 |      | *     | 2.5 | *  |
| 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 | *  |

| Name                | Conc   | EMPC   | Qual | noise | DL |
|---------------------|--------|--------|------|-------|----|
| Total Tetra-Dioxins | 52.364 | 52.641 | *    | *     | *  |
| Total Penta-Dioxins | 143.45 | 143.74 | *    | *     | *  |
| Total Hexa-Dioxins  | 202.96 | 203.37 | *    | *     | *  |
| Total Hepta-Dioxins | 100.70 | 101.63 | *    | *     | *  |
| Total Tetra-Furans  | 30.189 | 30.289 | *    | *     | *  |
| Total Penta-Furans  | 181.82 | 182.98 | *    | *     | *  |
| Total Hexa-Furans   | 243.28 | 244.86 | *    | *     | *  |
| Total Hepta-Furans  | 97.658 | 99.281 | *    | *     | *  |

Rec Qual

104

104

95.4

104

97.4

97.0

107

107

107

97.8

102

99.9

101

100

96.5

99.0

101

Integrations

Reviewed

by

by

Analyst: MJ

Analyst: \_\_\_\_\_

Date: 3/22/06

Date: \_\_\_\_\_

Run: 060322C1

Analyte:

Cal: 1613VG5-3-22-06

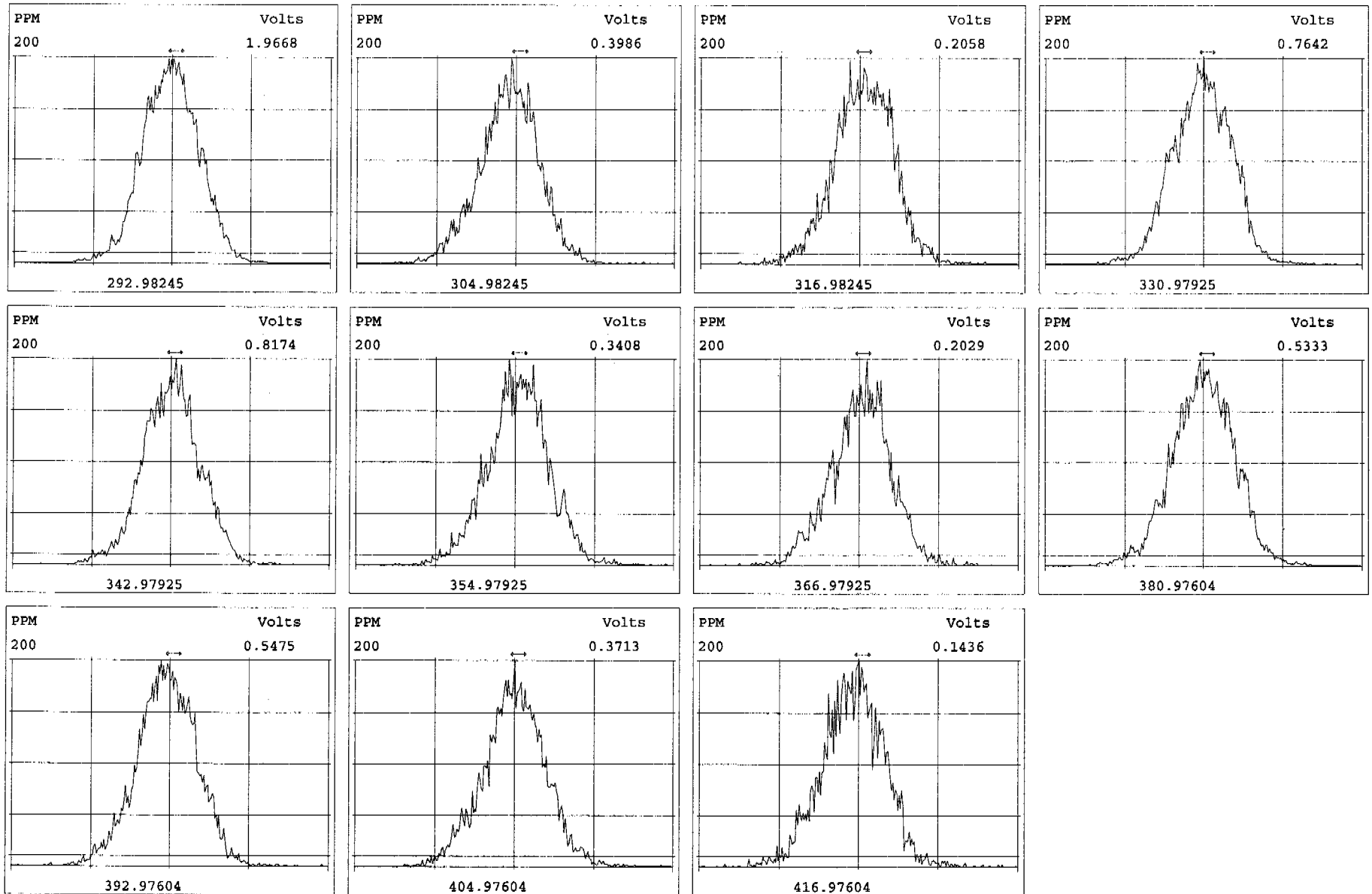
Inst. ID. VG-7

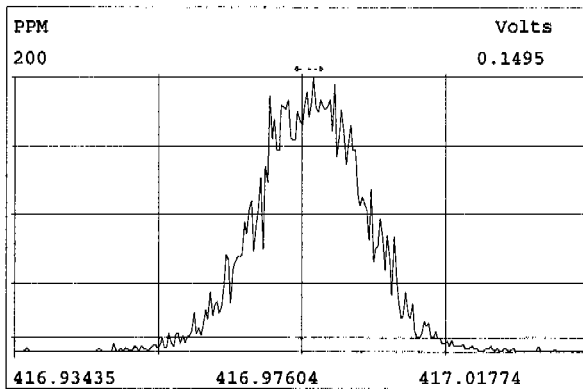
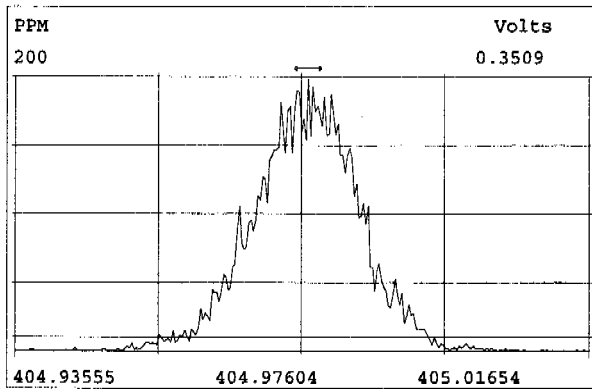
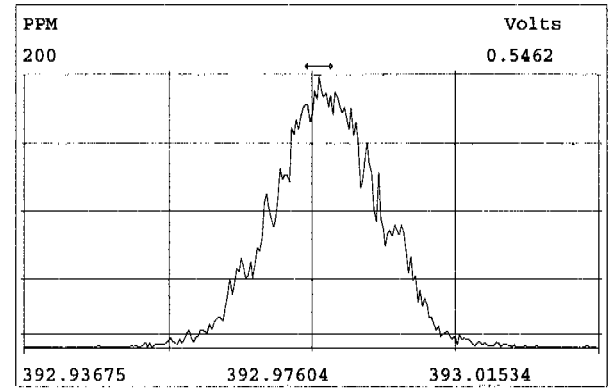
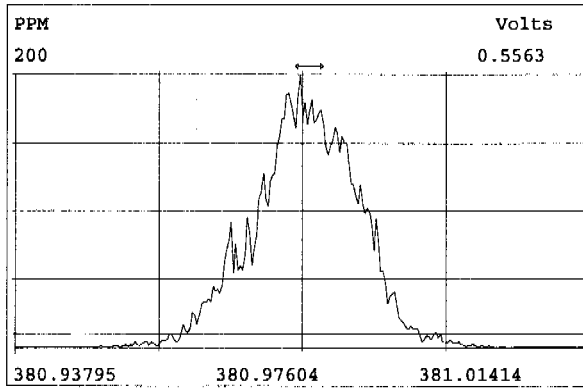
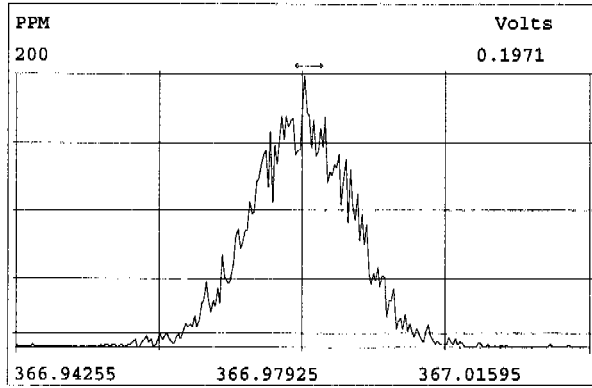
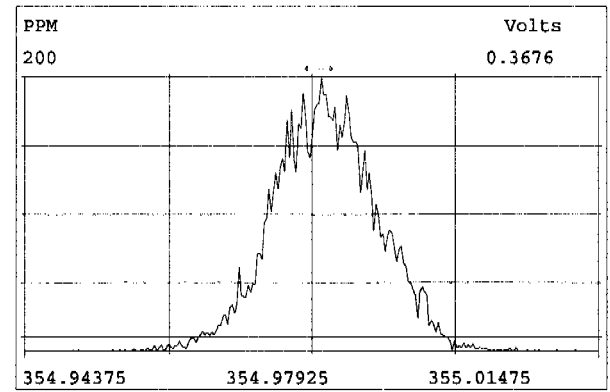
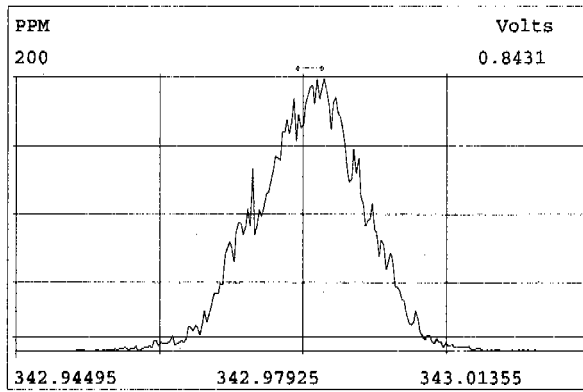
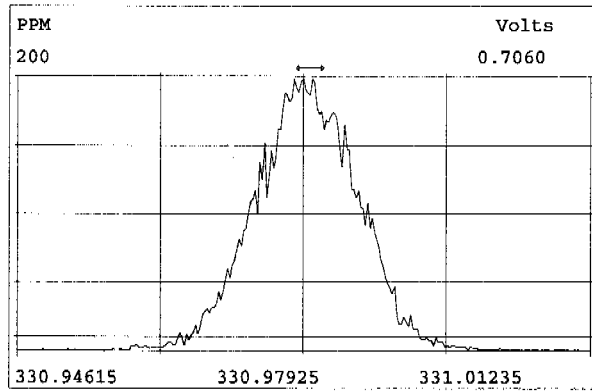
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| Name                    | RRT Limits |        | Samp# 1 | Samp# 3 | Samp# 4 | Samp# 5 | Samp# 6 | Samp# 7 |
|-------------------------|------------|--------|---------|---------|---------|---------|---------|---------|
|                         | 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 | *       | *       | *       | *       | *       | *       |

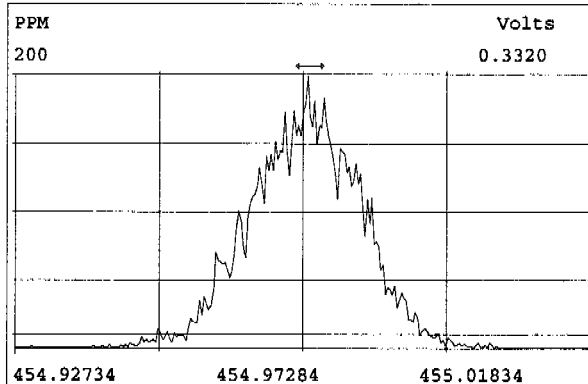
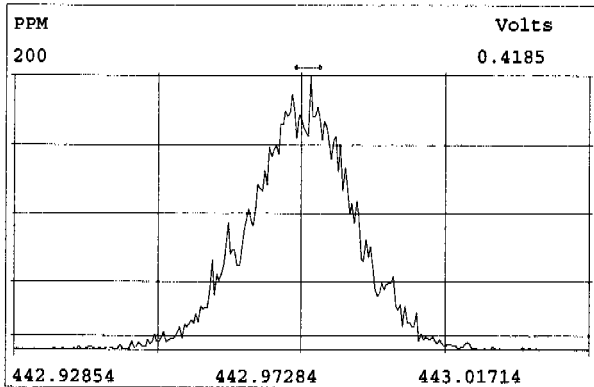
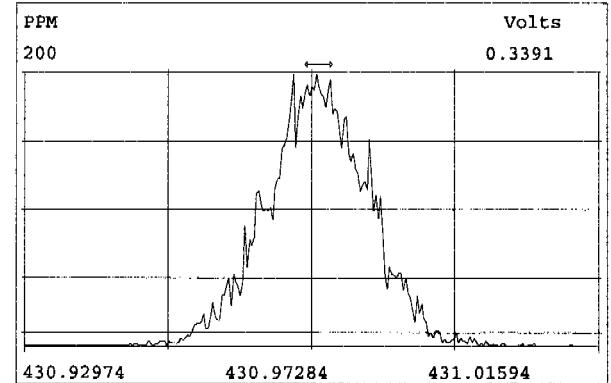
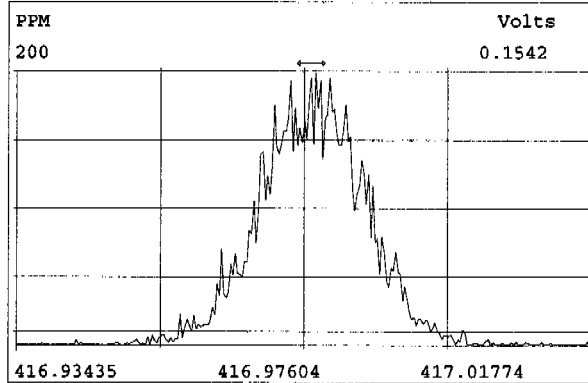
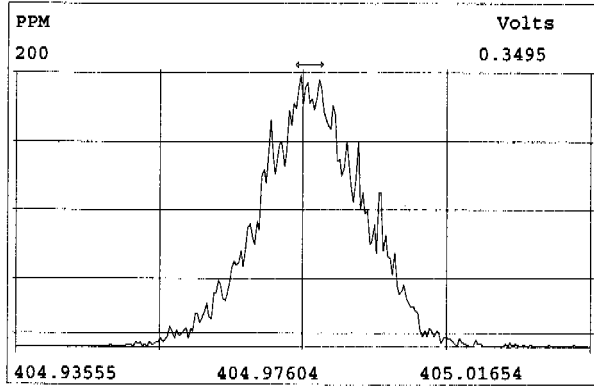
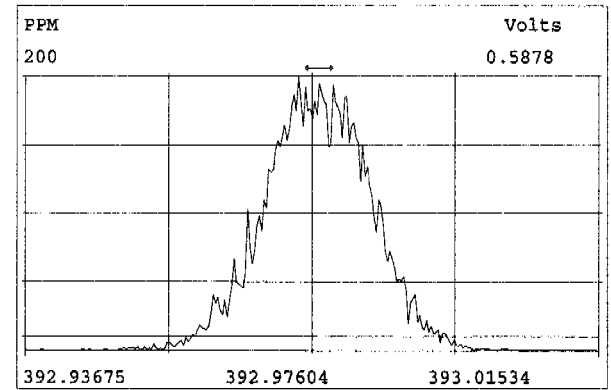
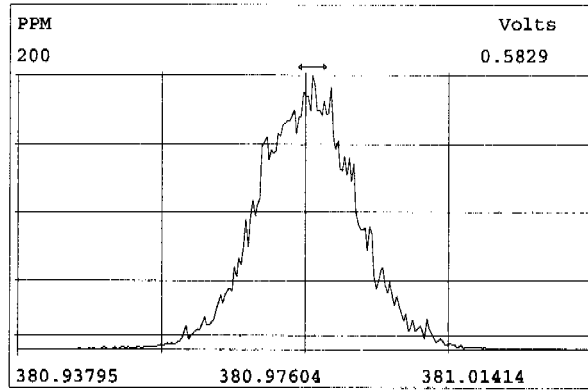
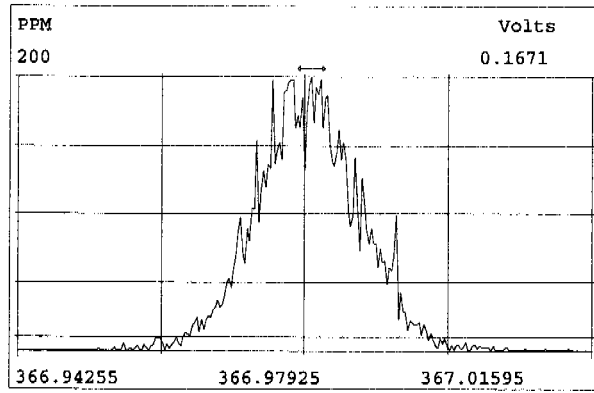
Alta Analytical Laboratory - Injection Log Run file: 060322C1 Instrument ID: VG-5 GC Column ID: db-5

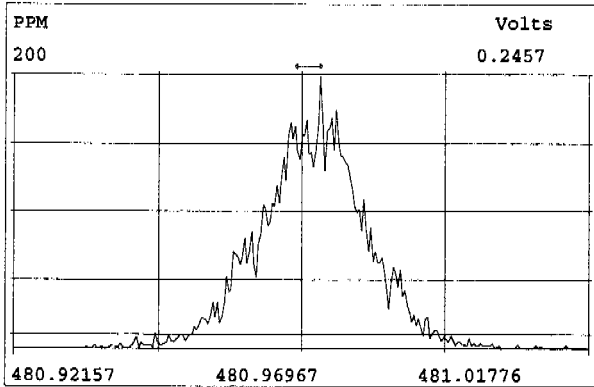
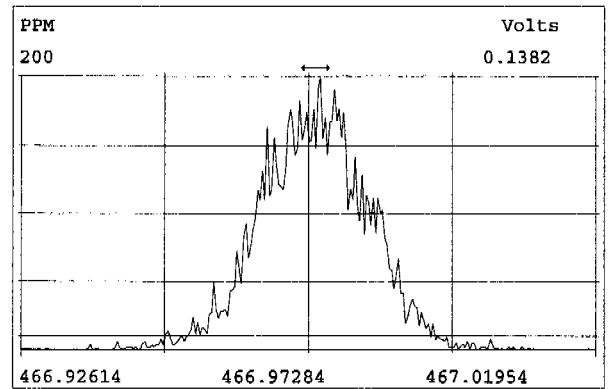
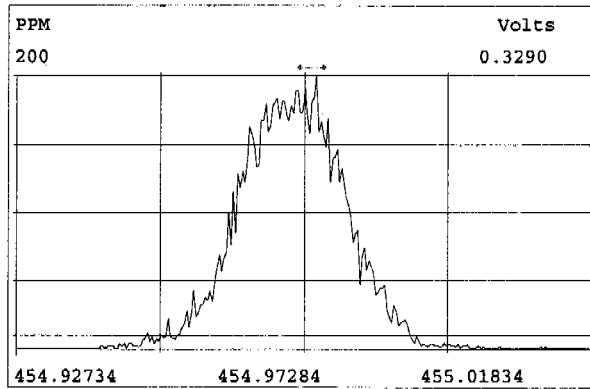
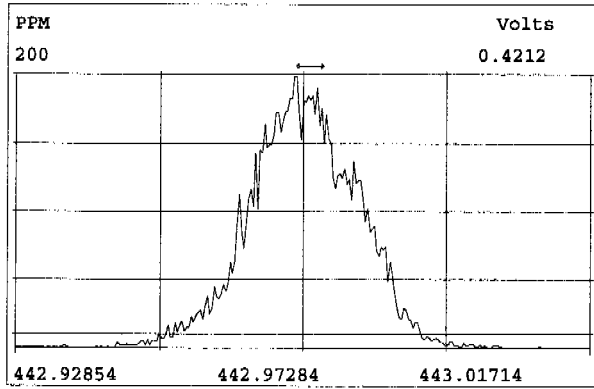
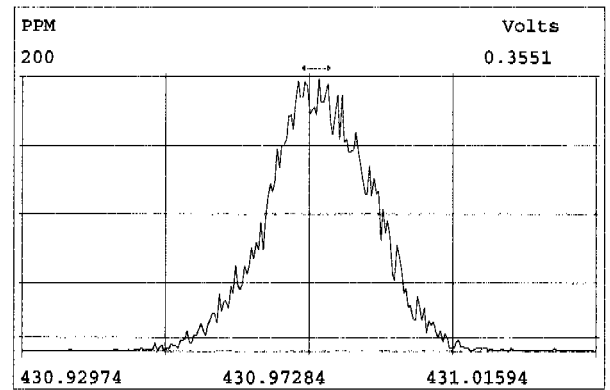
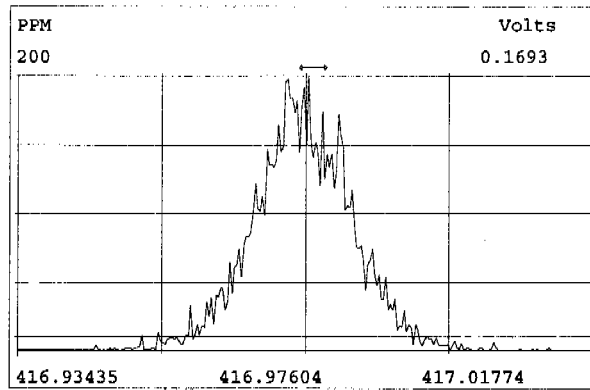
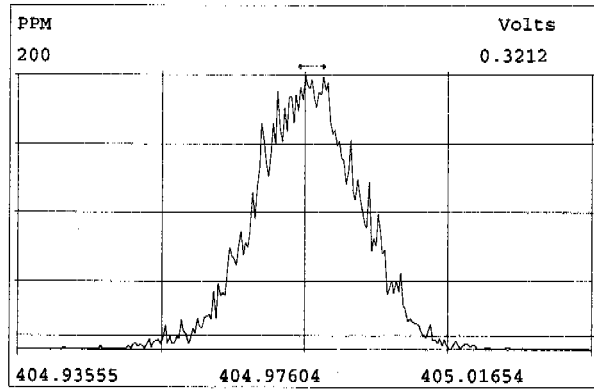
| Data file | S# | Sample ID     | Analyst | Acq date  | Acq time | CCal | ECal |
|-----------|----|---------------|---------|-----------|----------|------|------|
| 060322C1  | 1  | ST060322C1-1  | MAS     | 22-MAR-06 | 09:32:59 | NA   | NA   |
| 060322C1  | 2  | SOLVENT BLANK | MAS     | 22-MAR-06 | 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   |

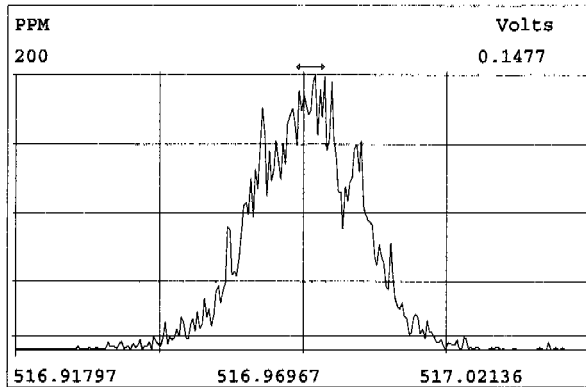
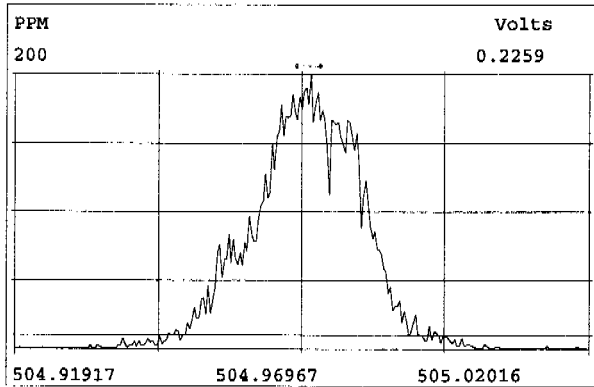
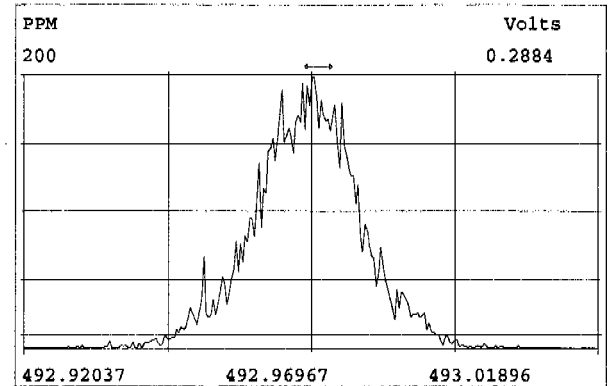
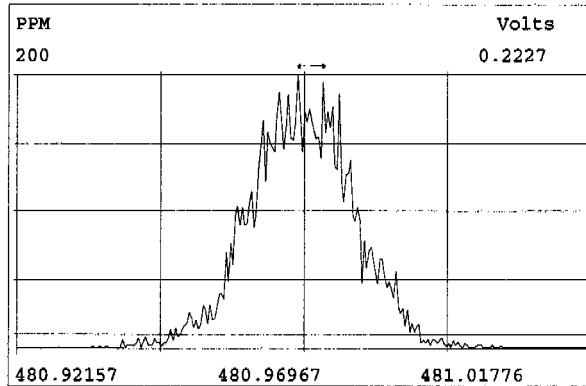
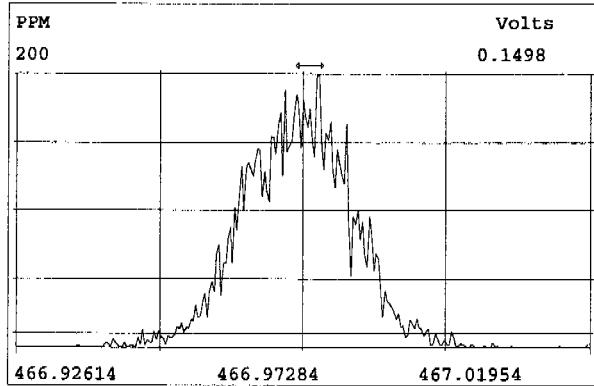
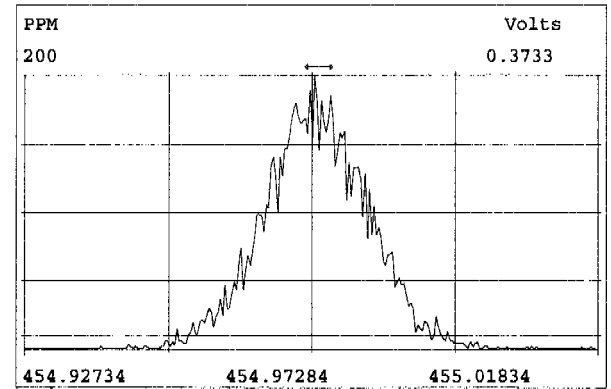
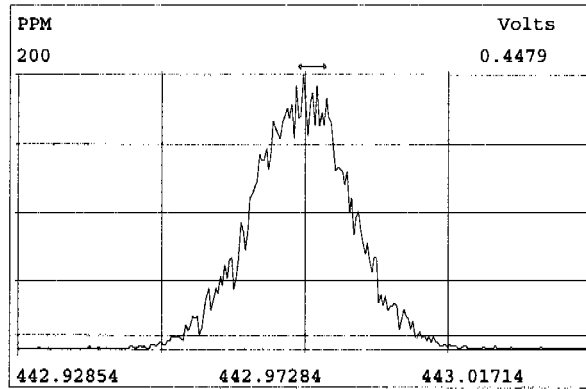
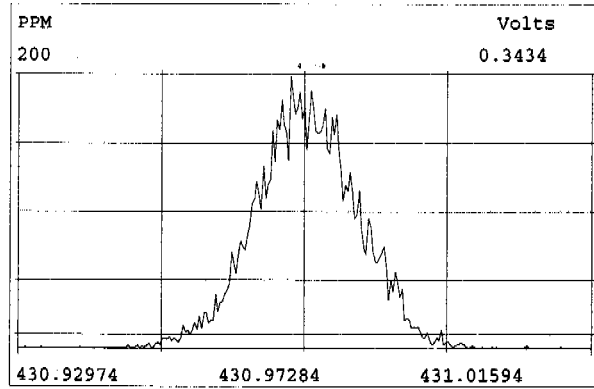




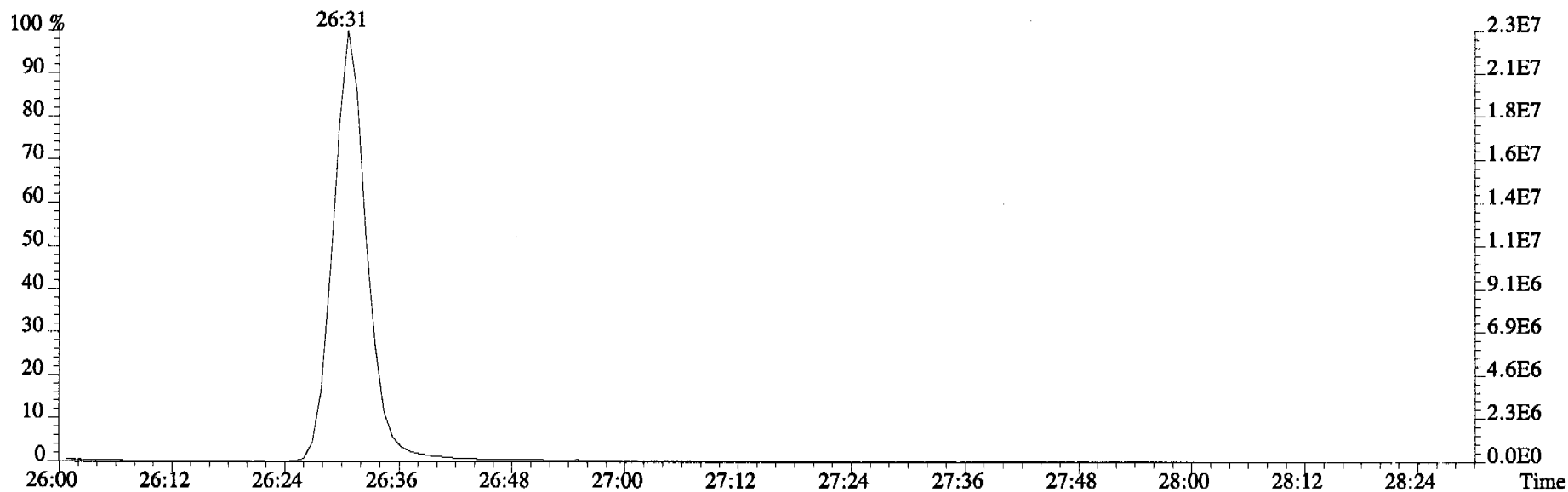
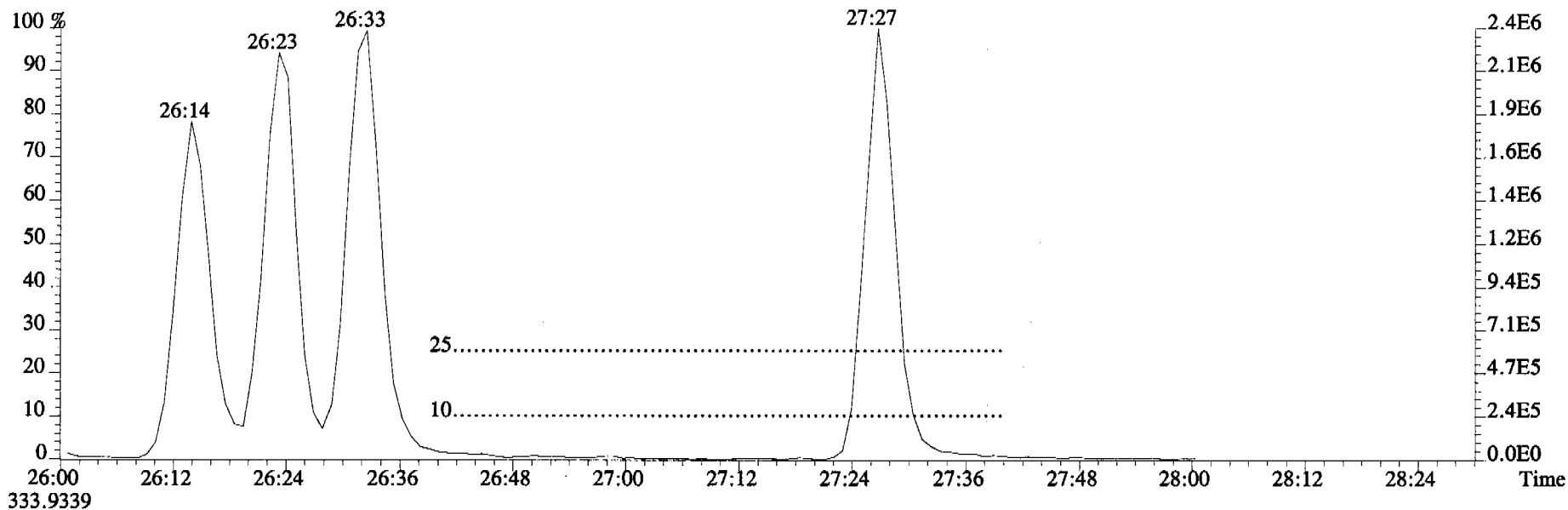




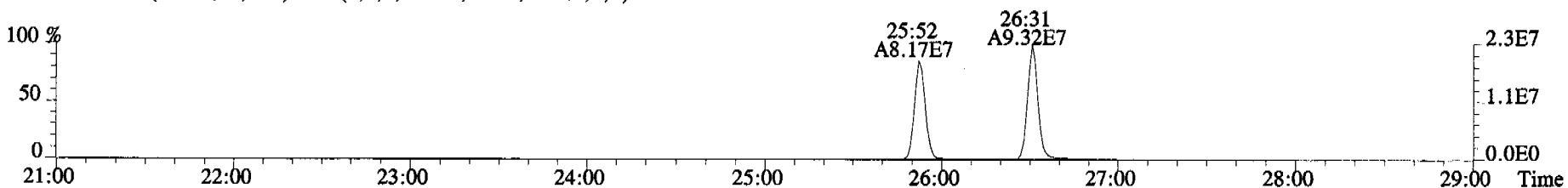
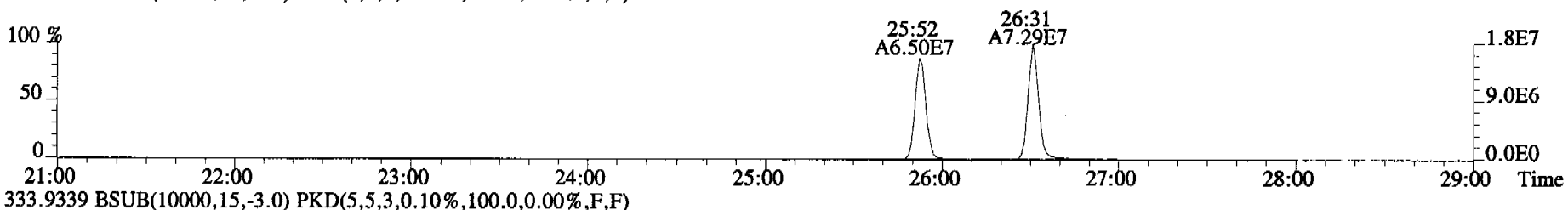
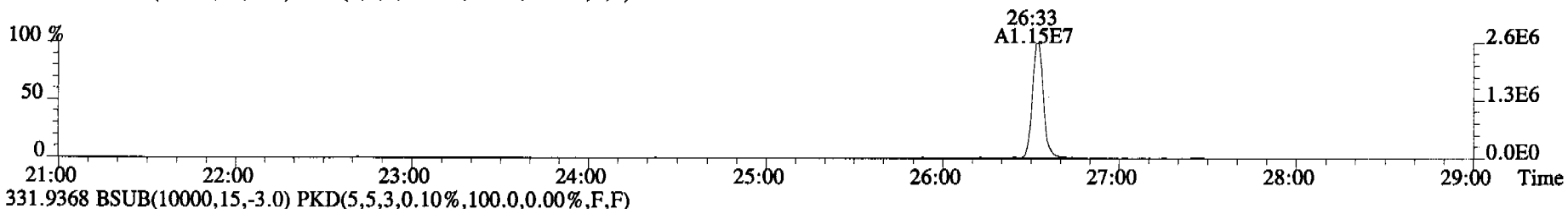
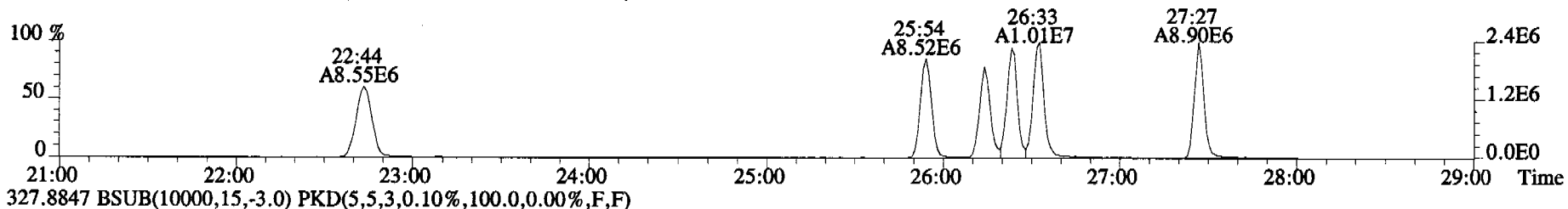
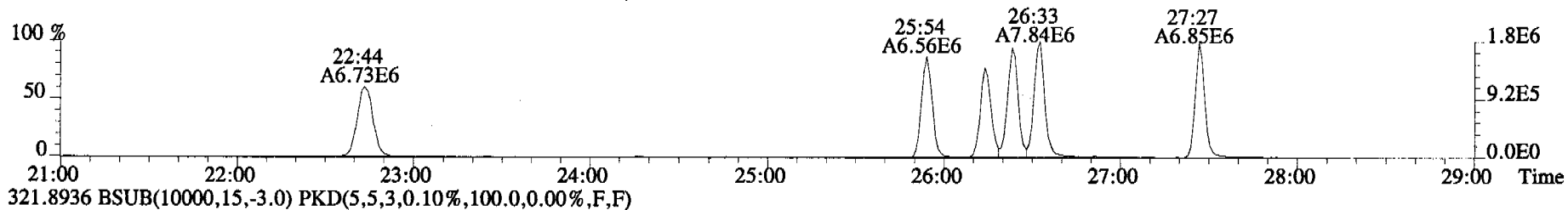




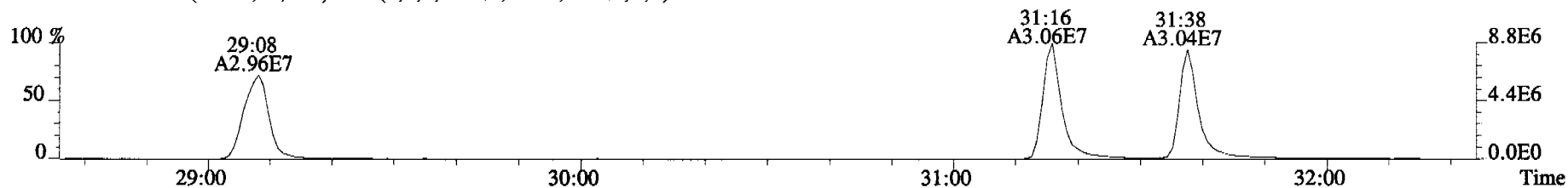
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
321.8936



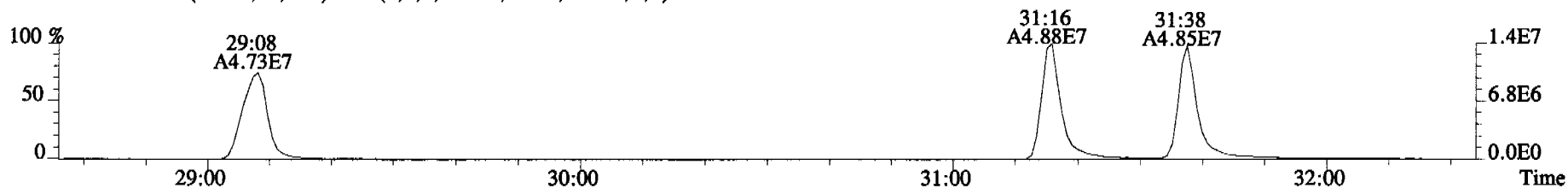
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319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



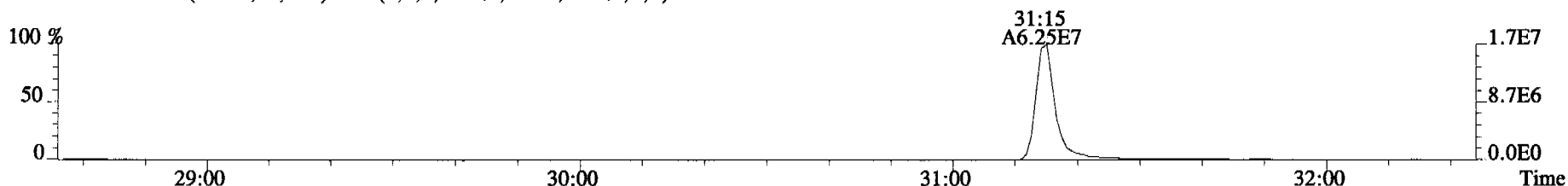
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



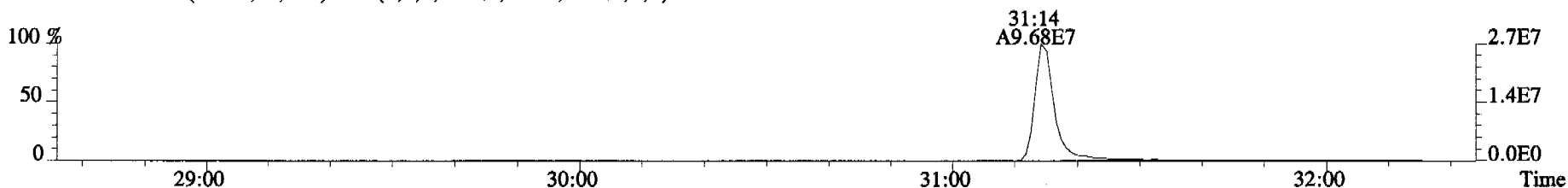
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



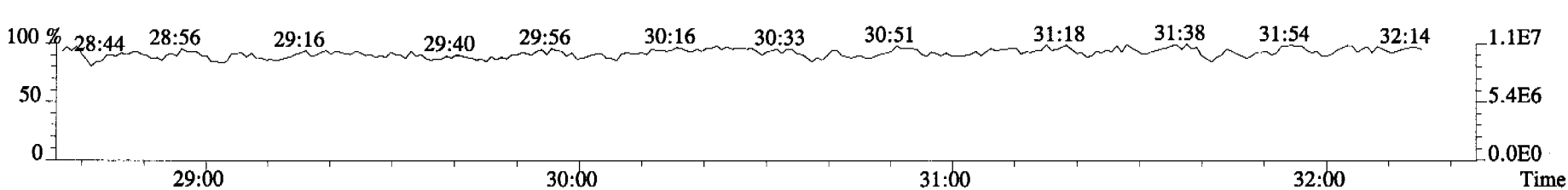
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



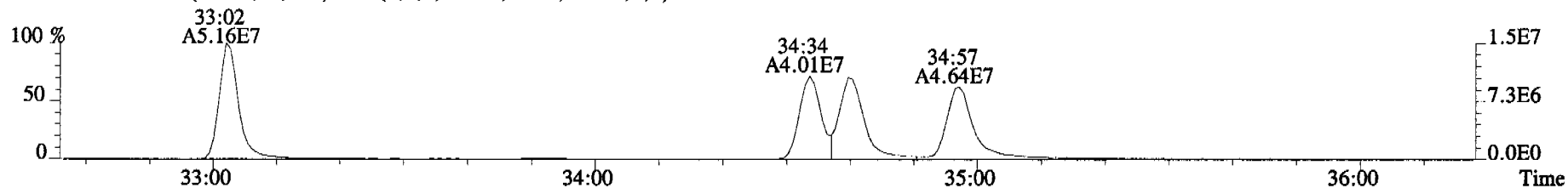
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



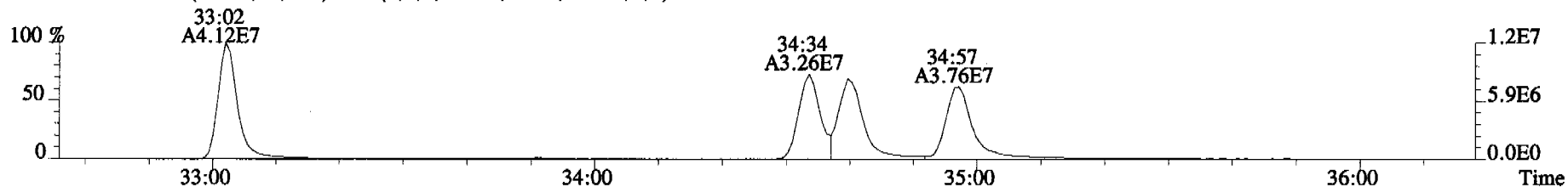
366.9792 F:2



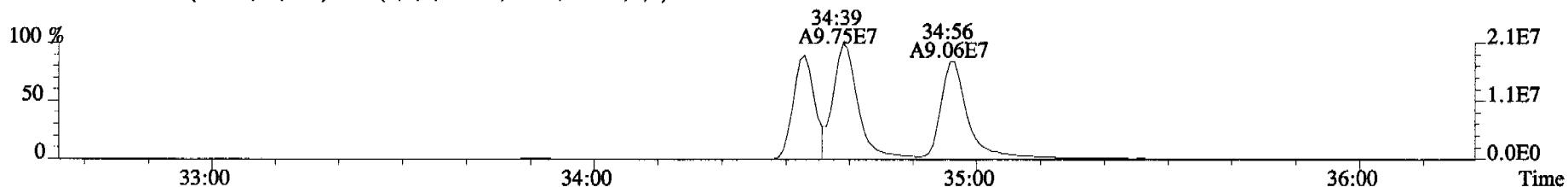
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



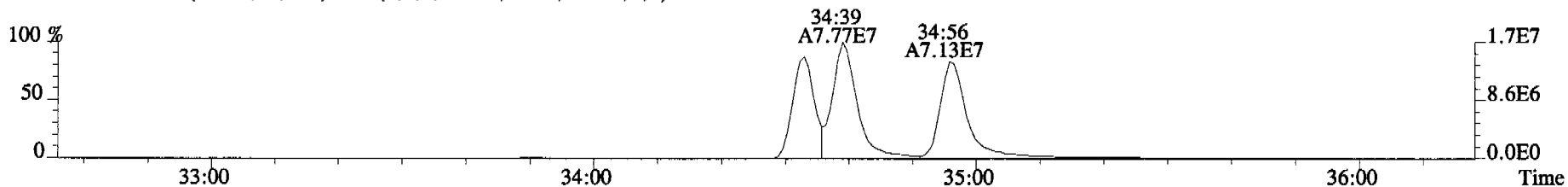
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



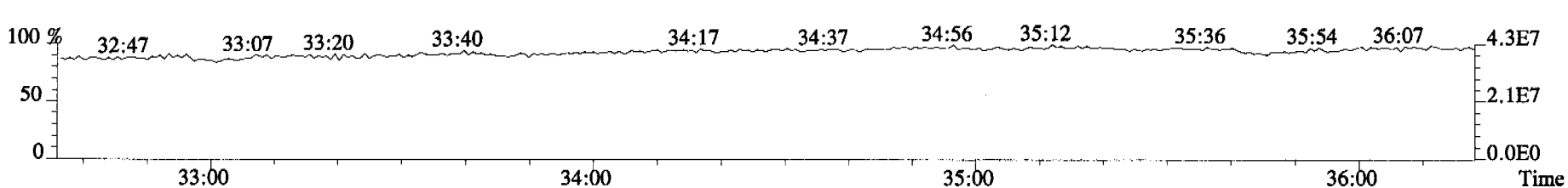
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



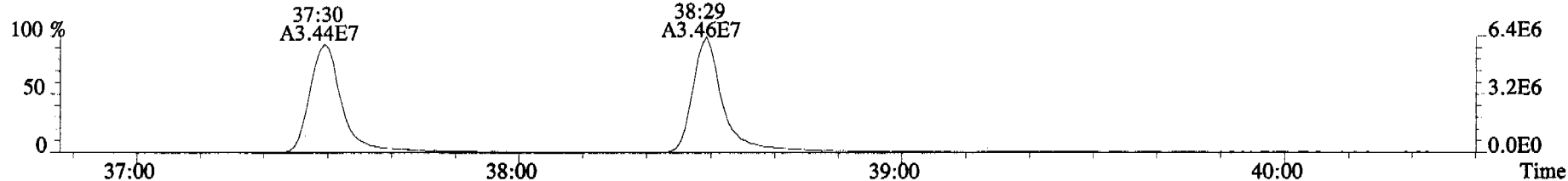
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



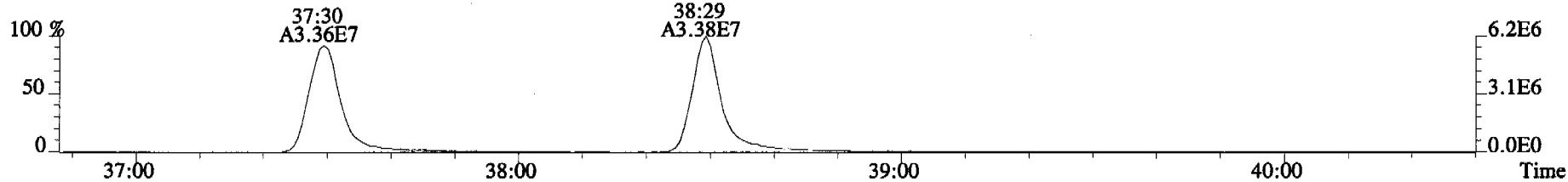
380.9760 F:3



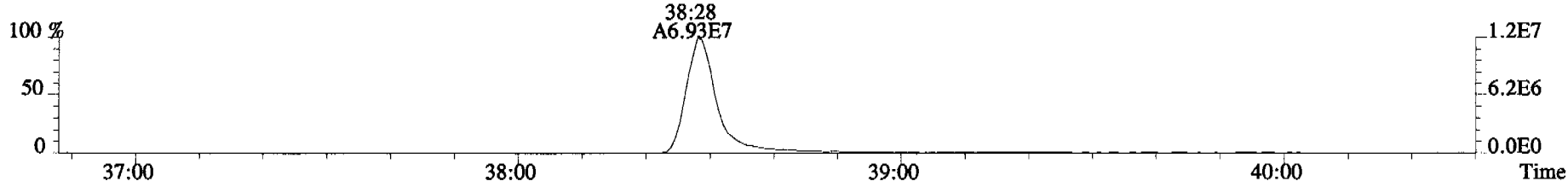
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Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



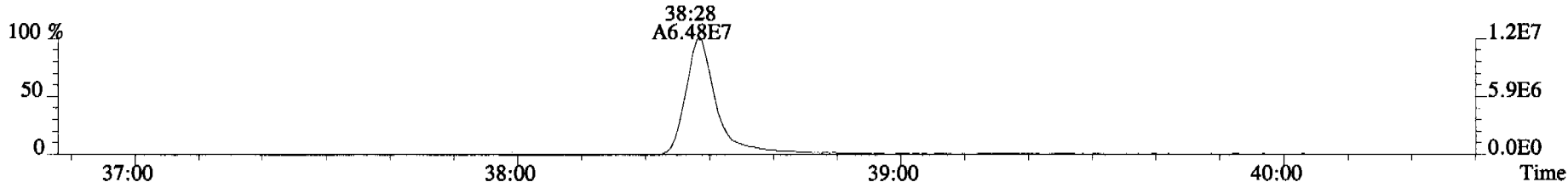
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



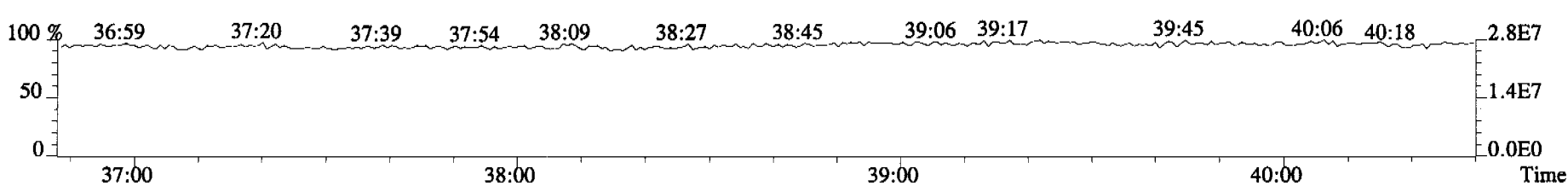
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

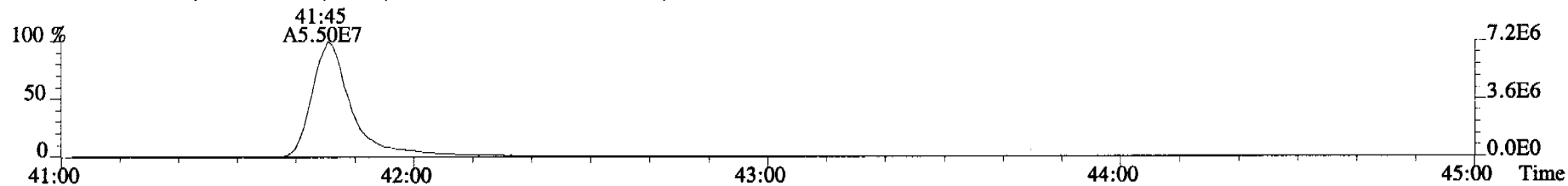


430.9728 F:4

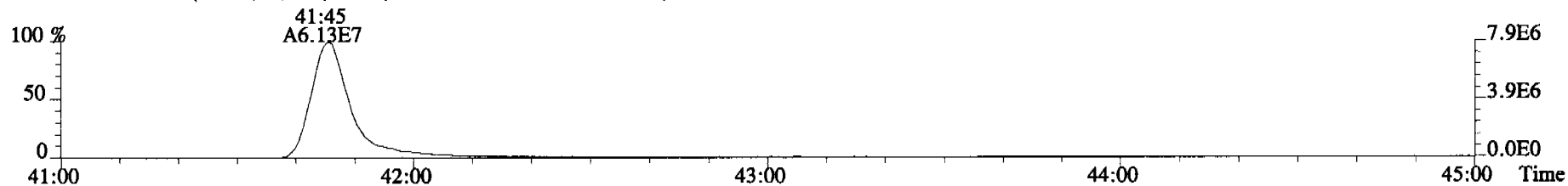




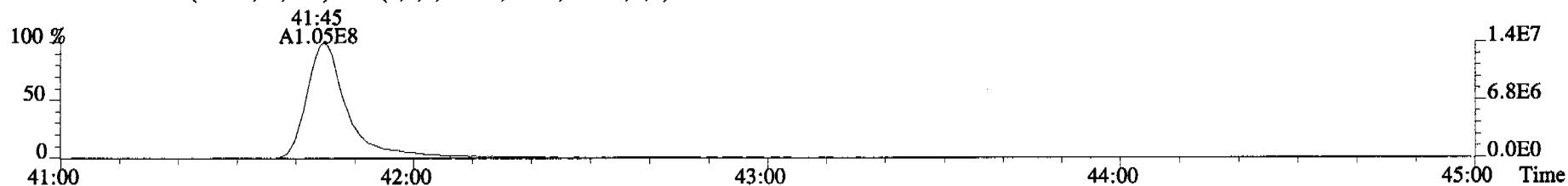
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



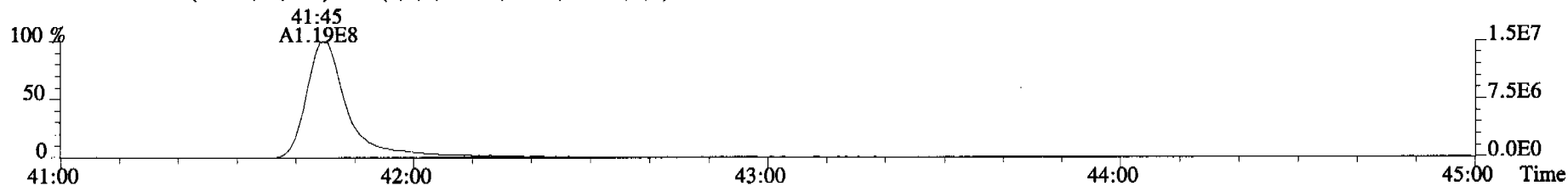
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



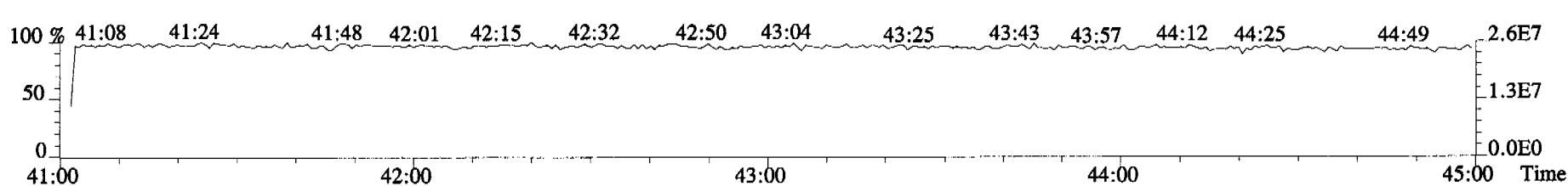
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



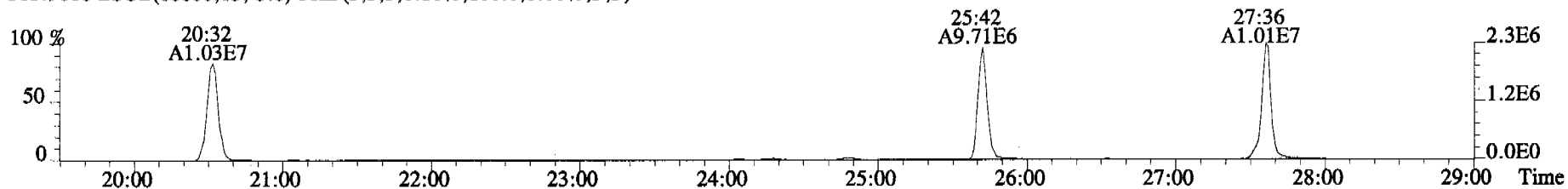
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



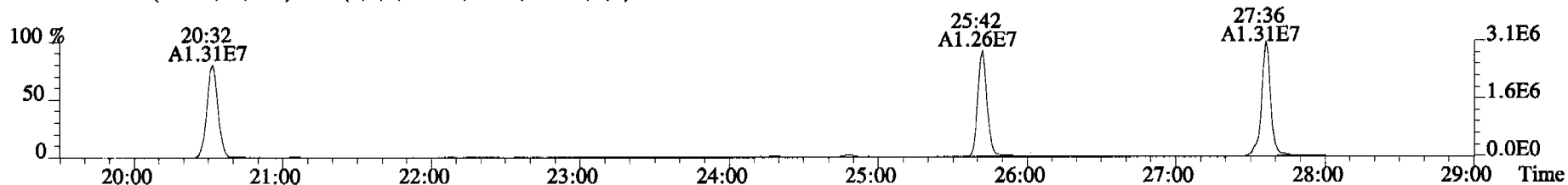
454.9728 F:5



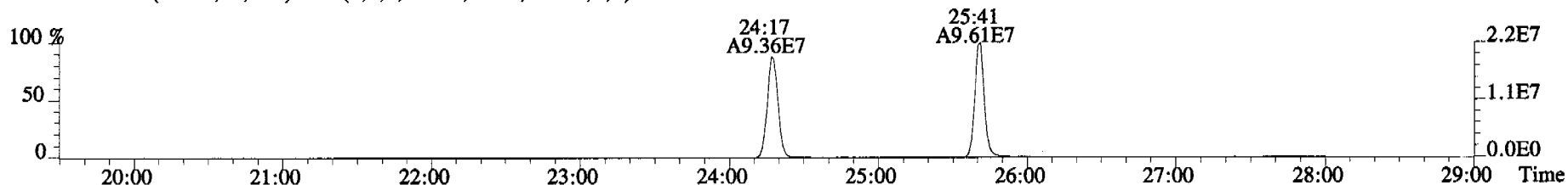
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



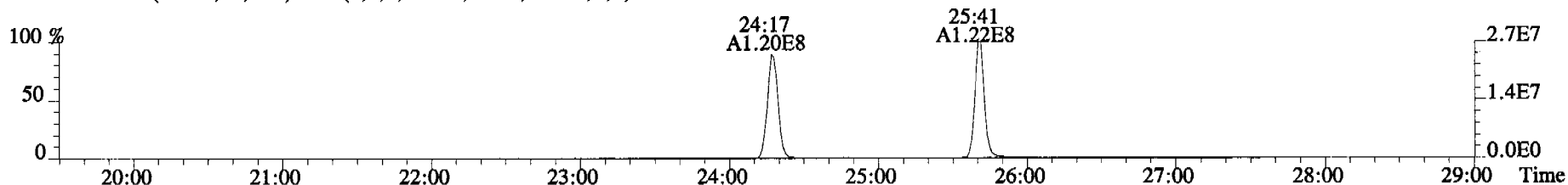
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



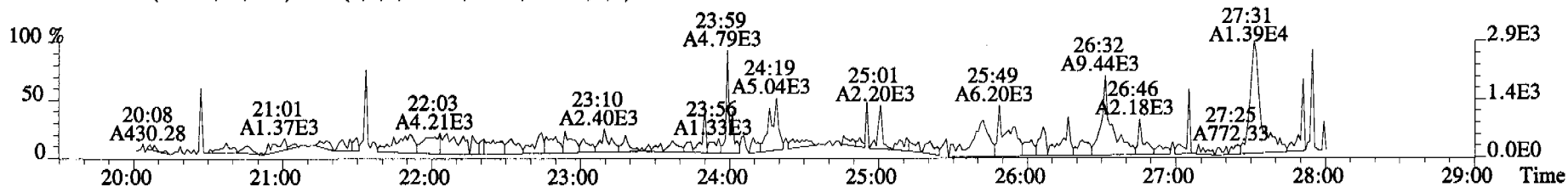
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



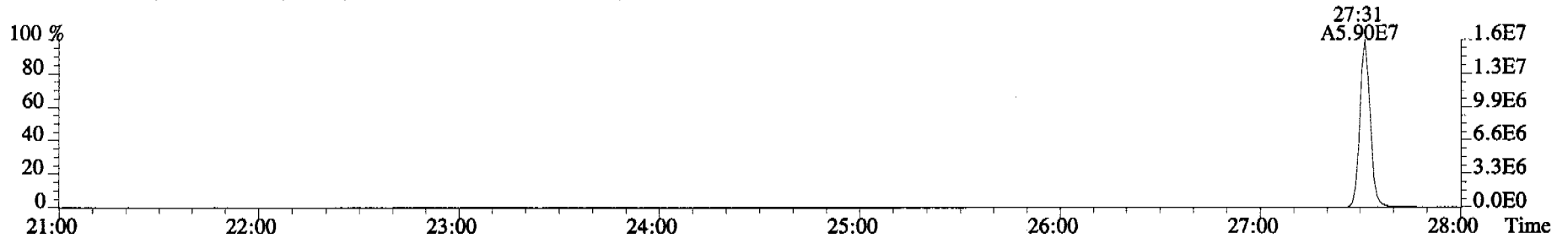
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



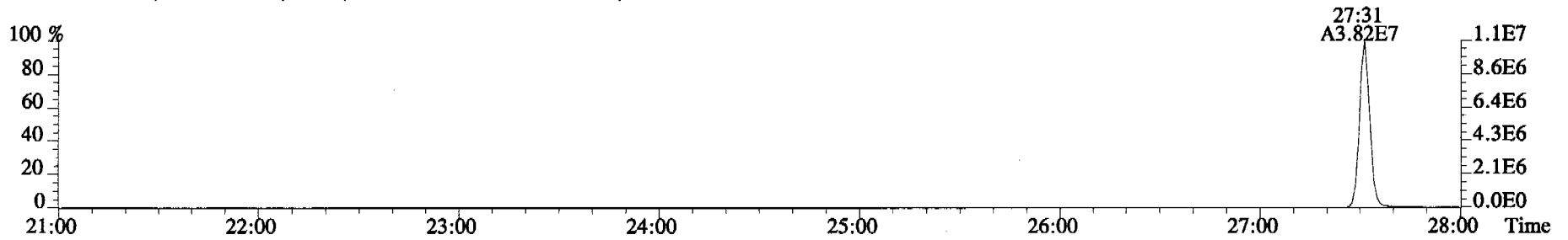
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



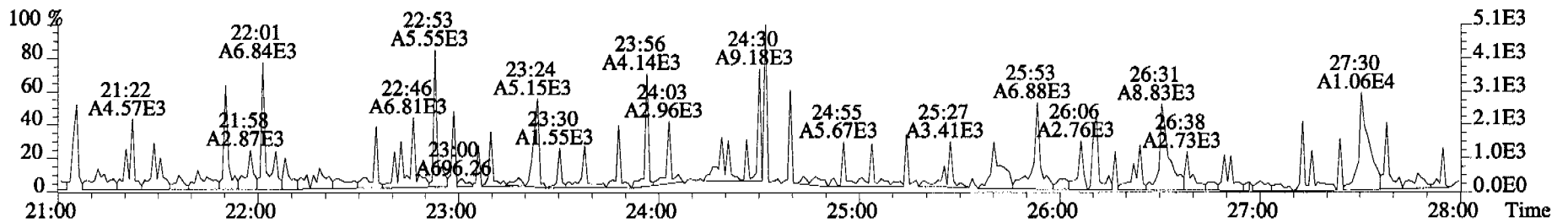
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



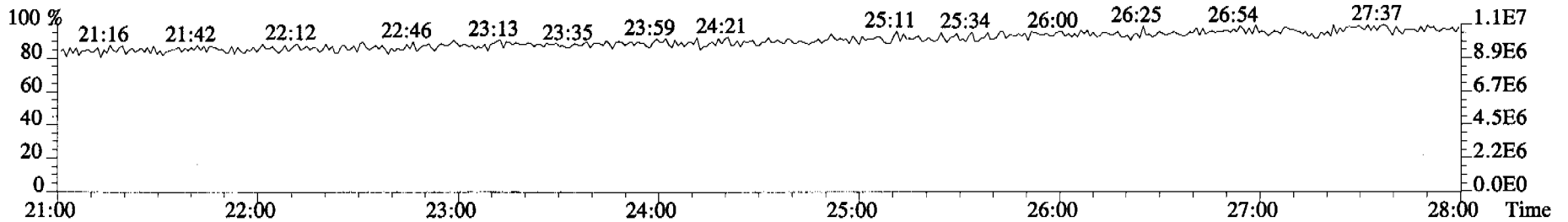
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



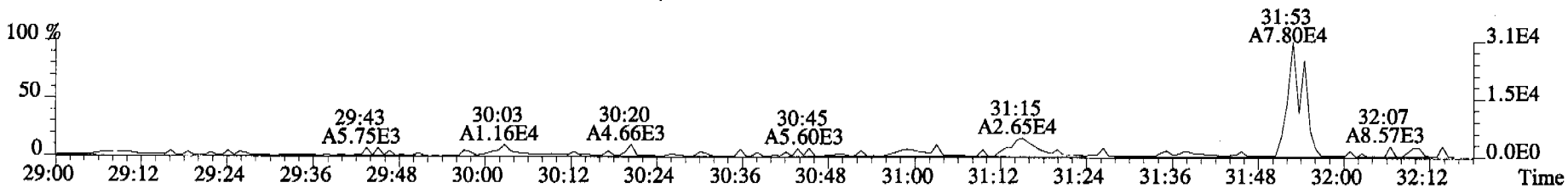
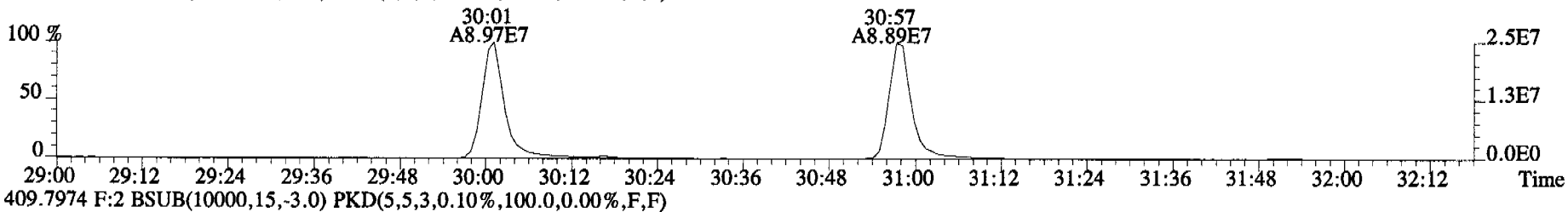
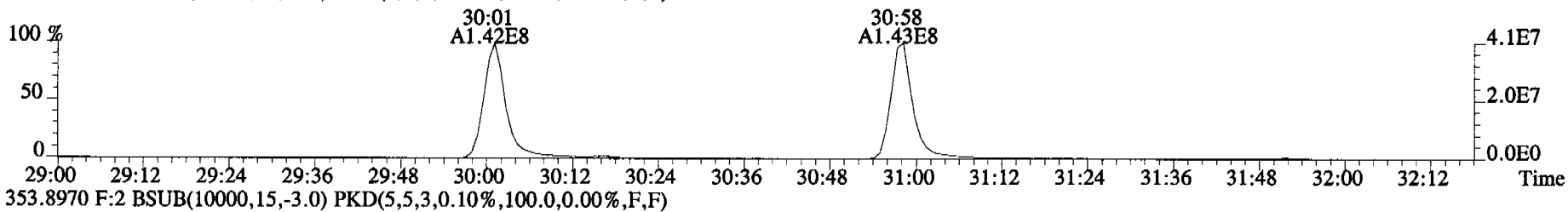
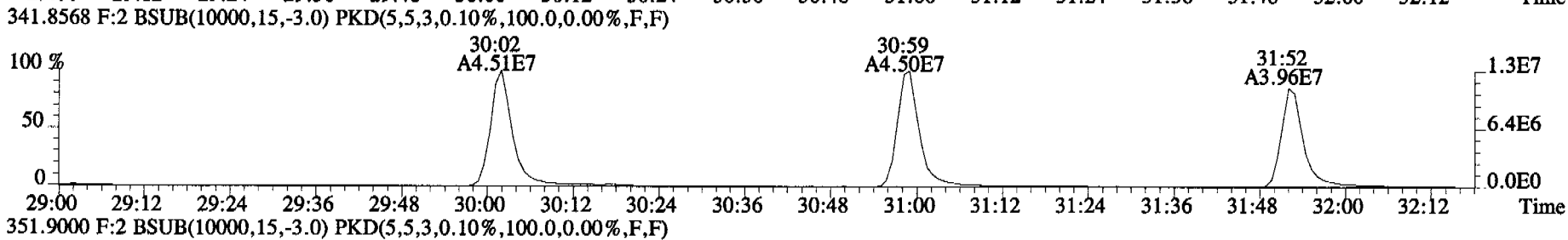
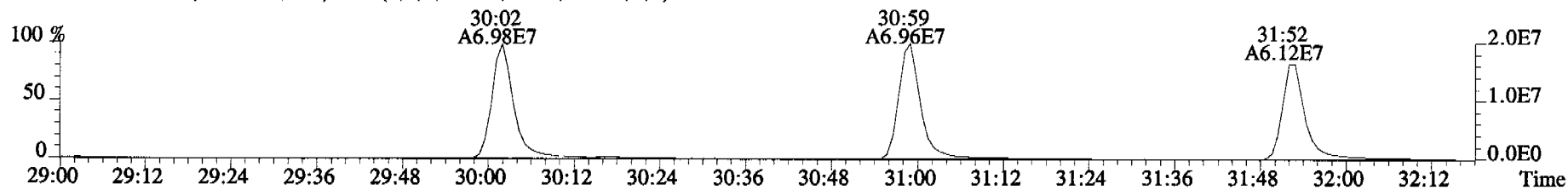
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



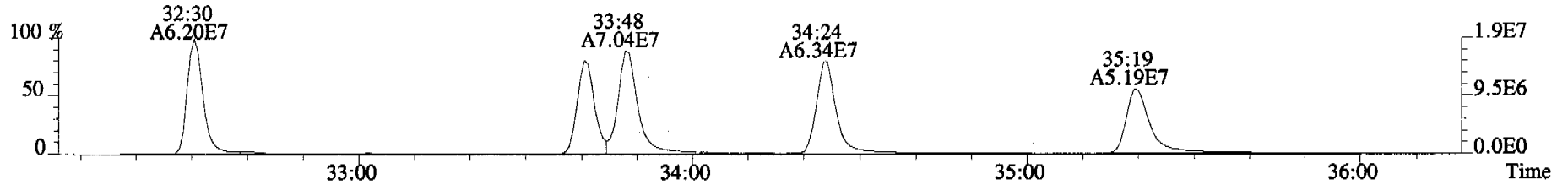
316.9824



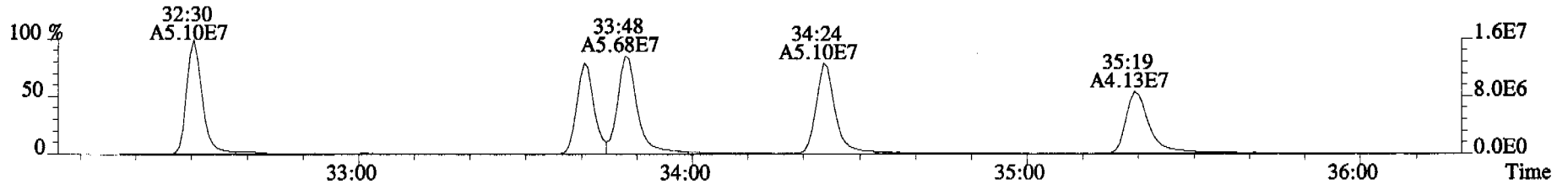
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



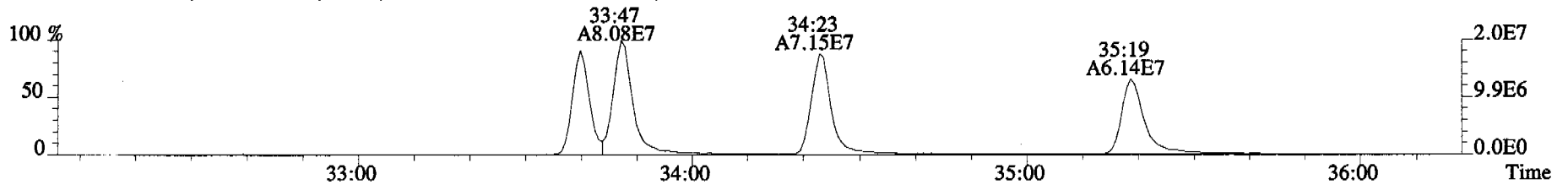
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



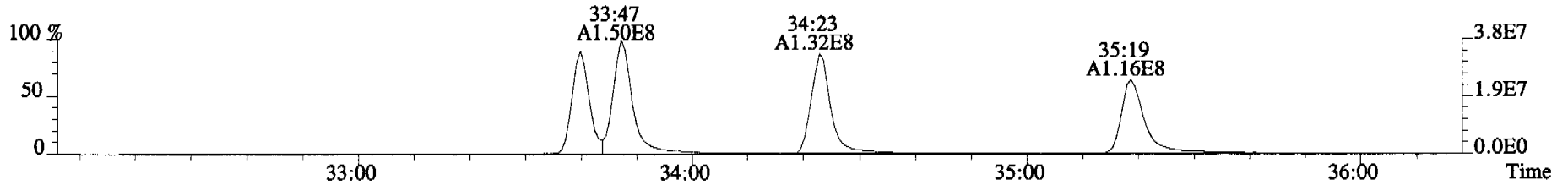
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



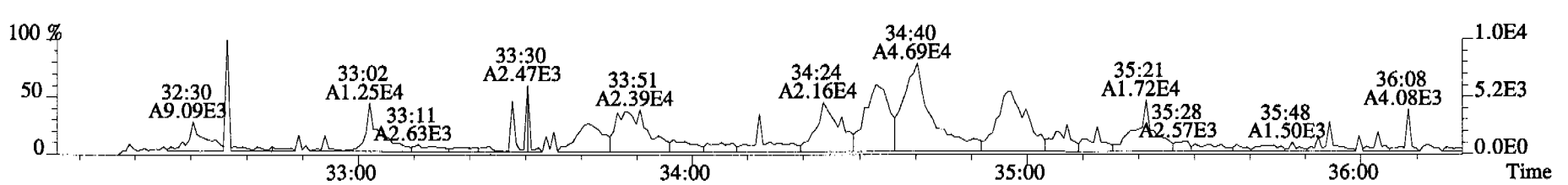
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



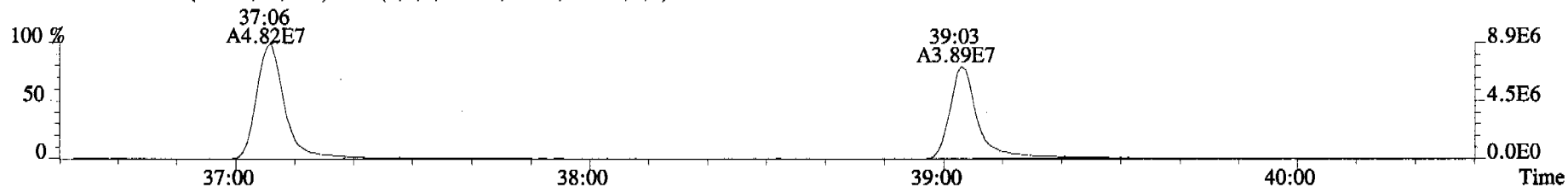
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



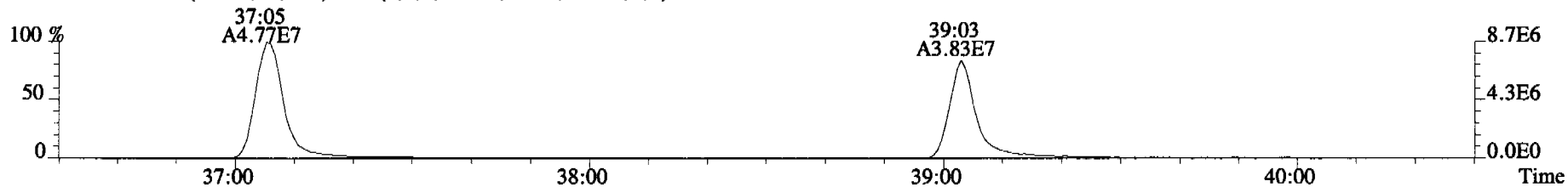
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



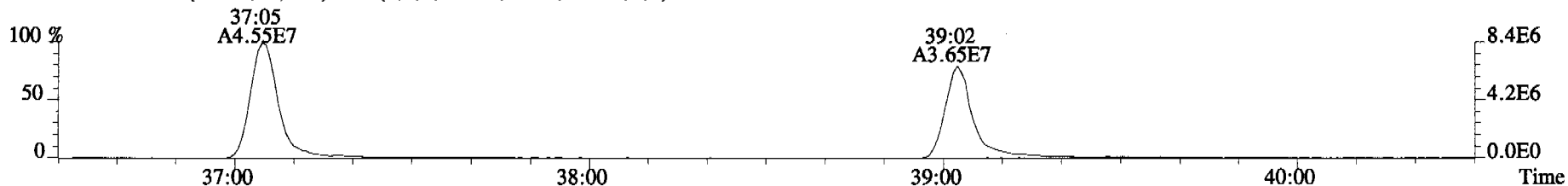
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



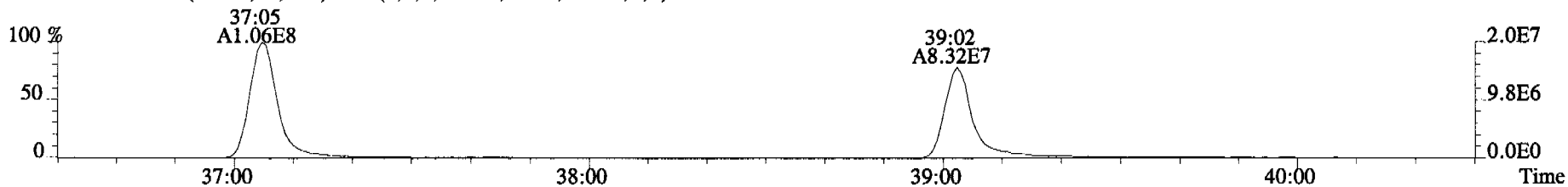
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



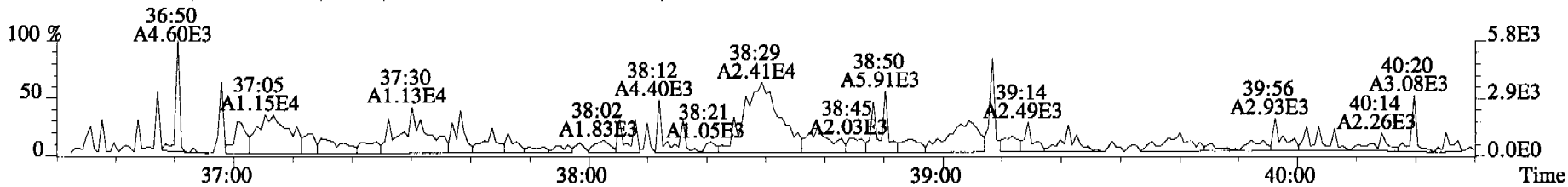
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



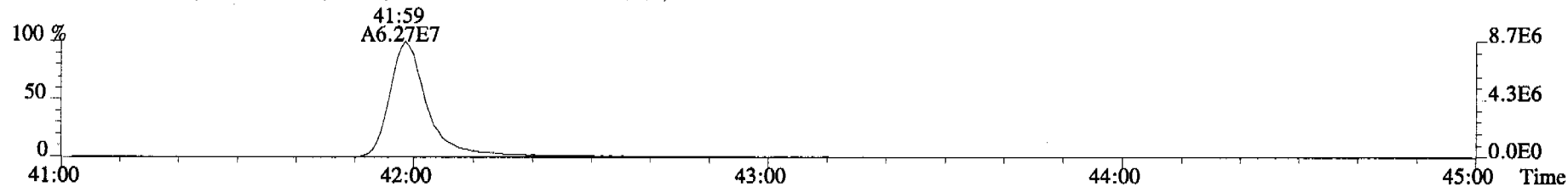
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



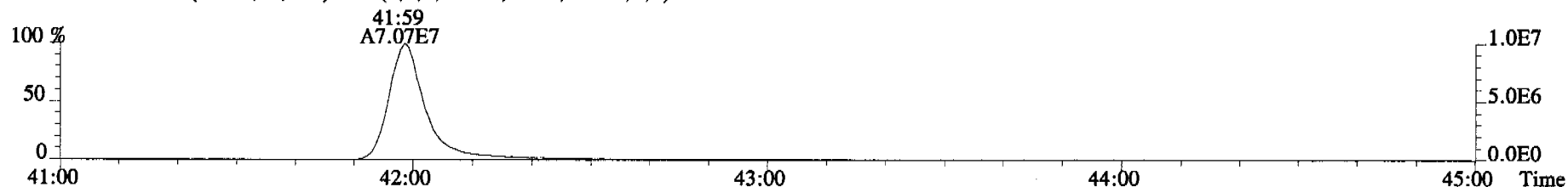
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



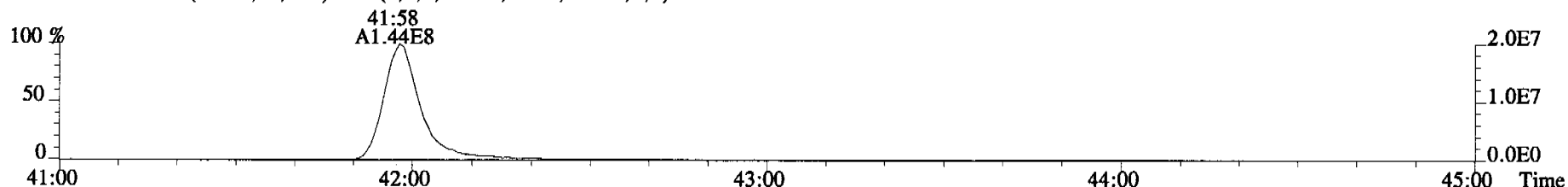
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



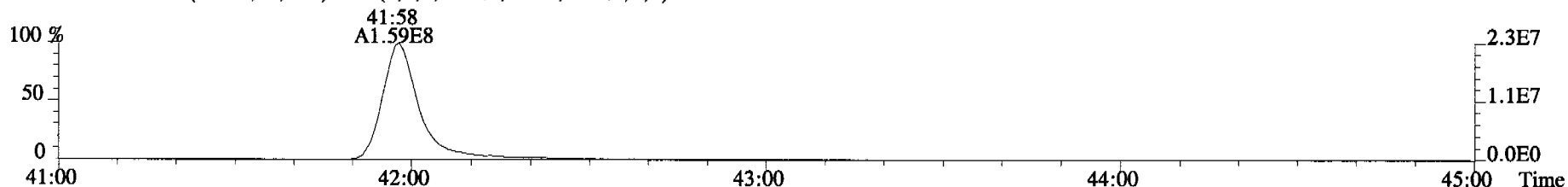
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



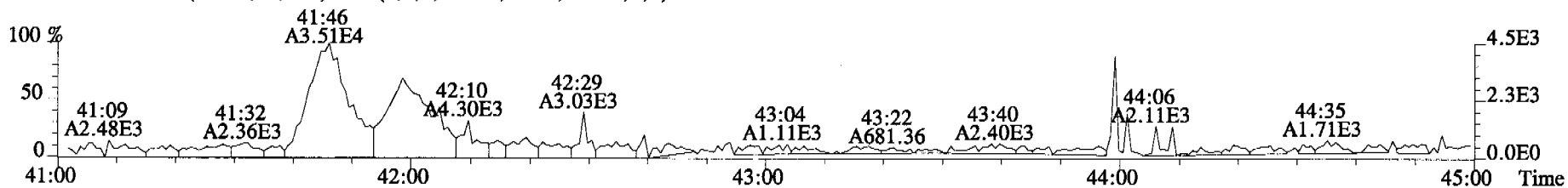
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



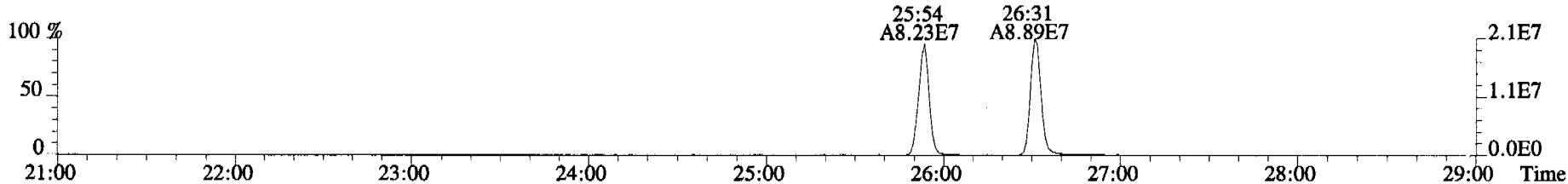
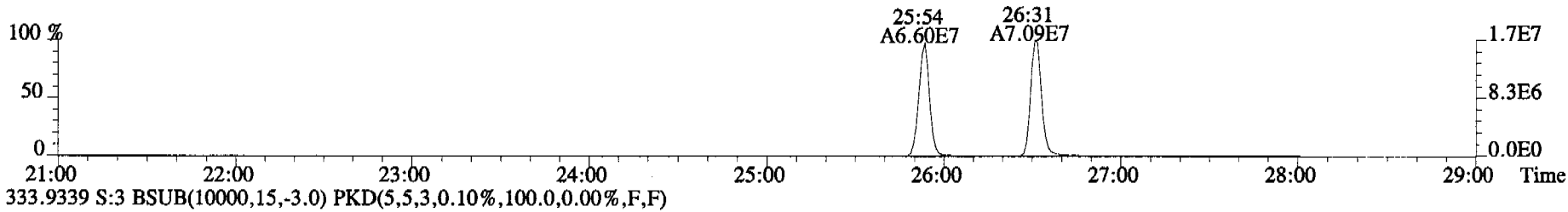
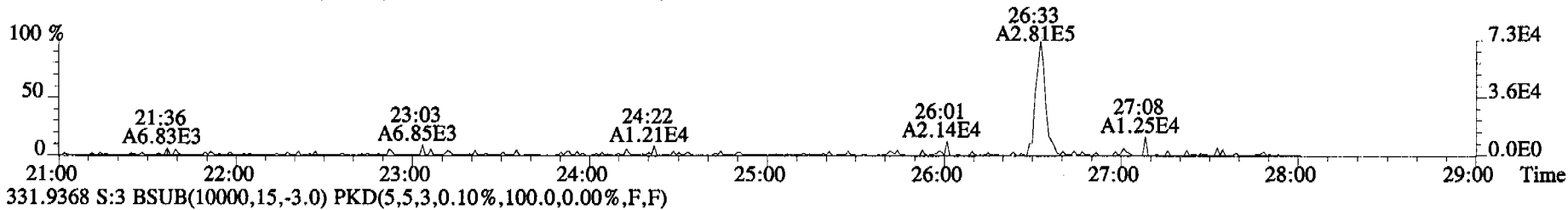
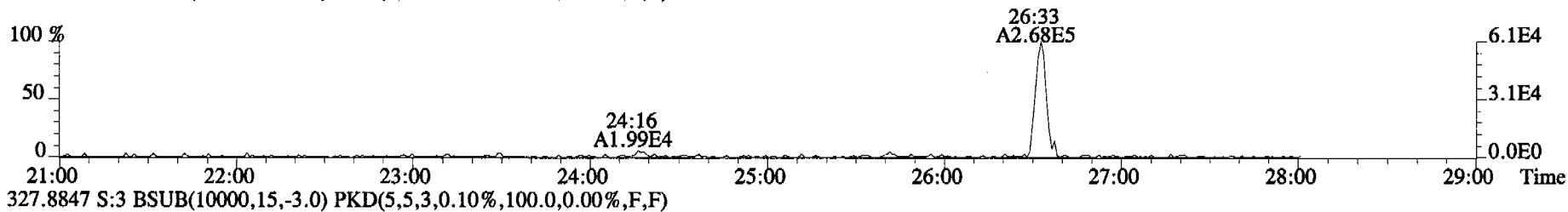
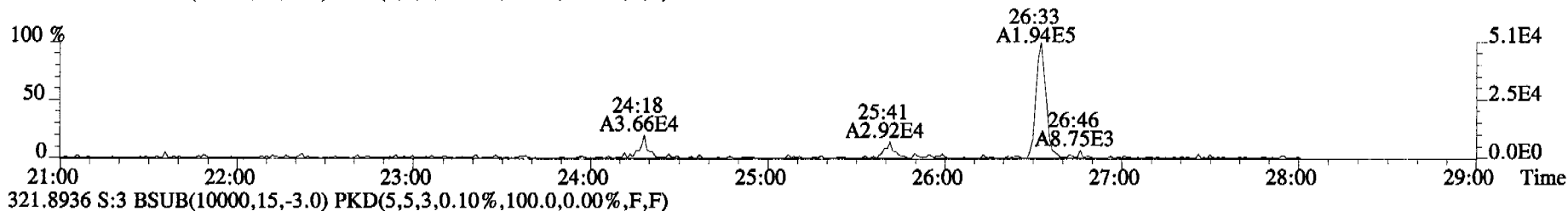
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

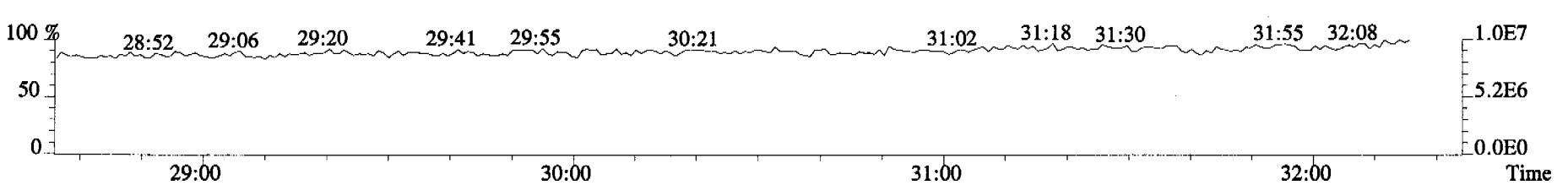
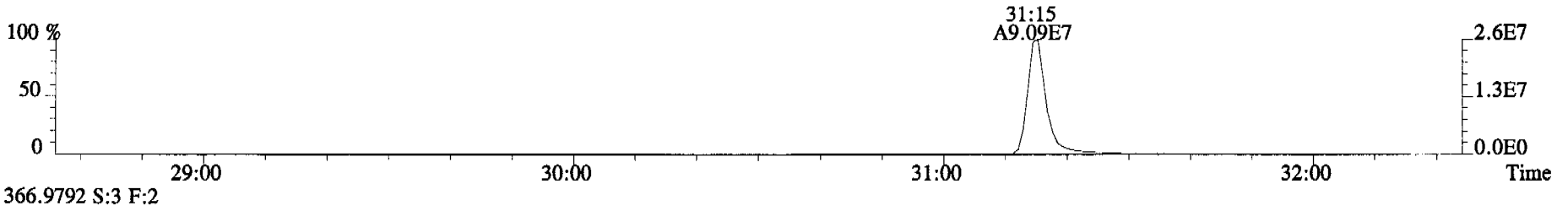
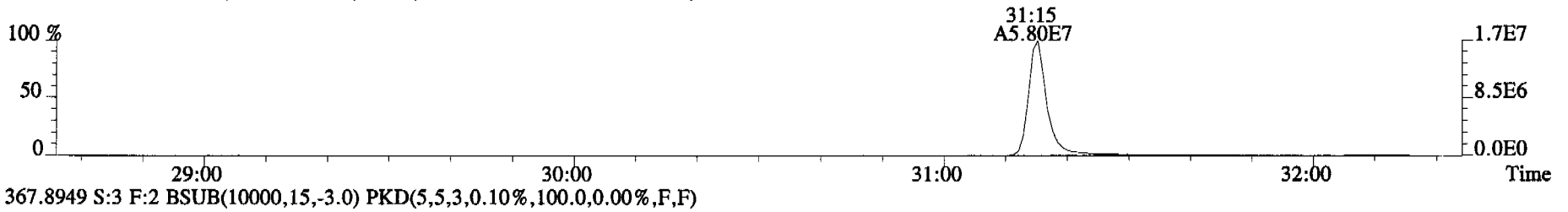
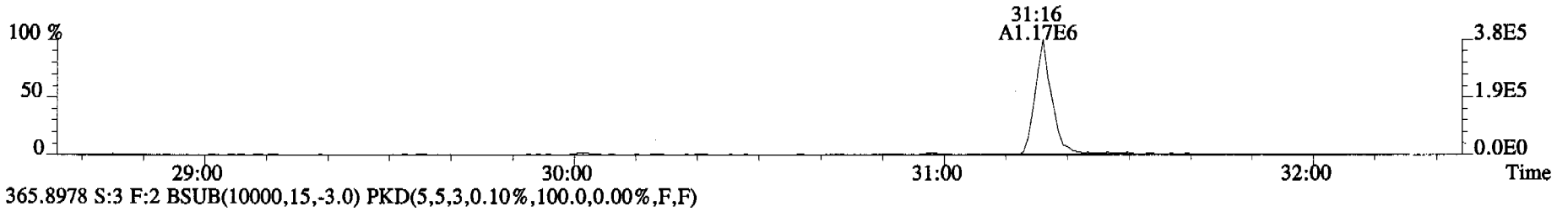
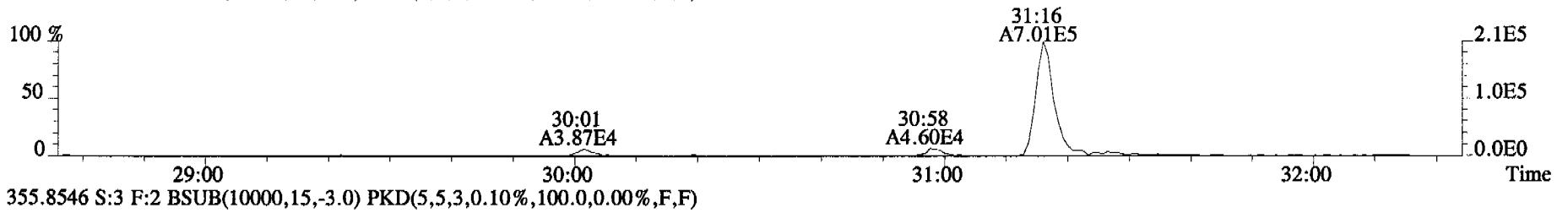


File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

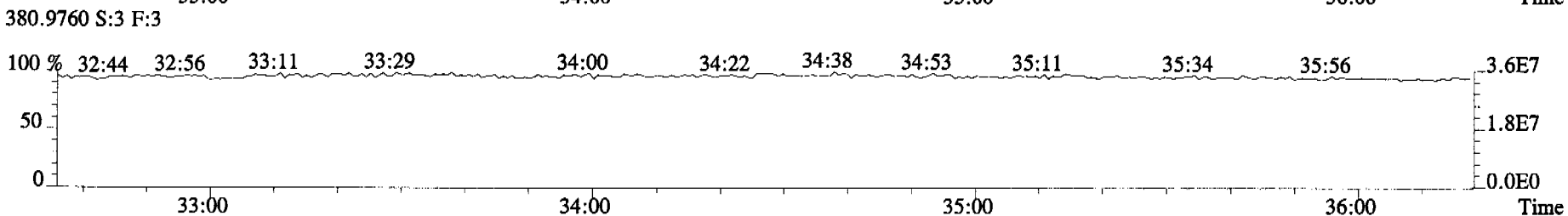
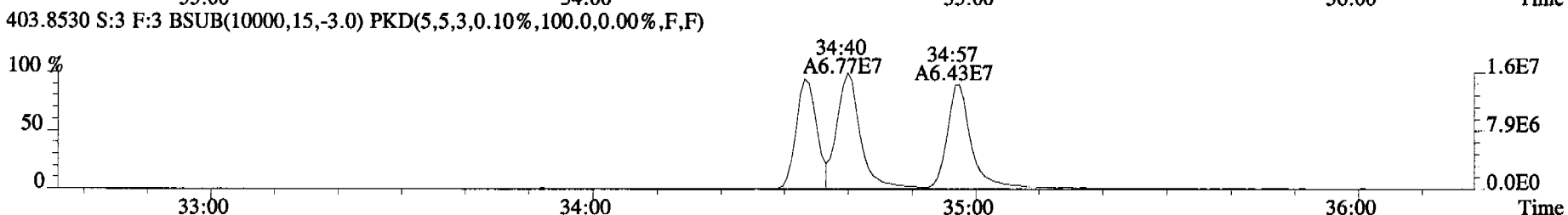
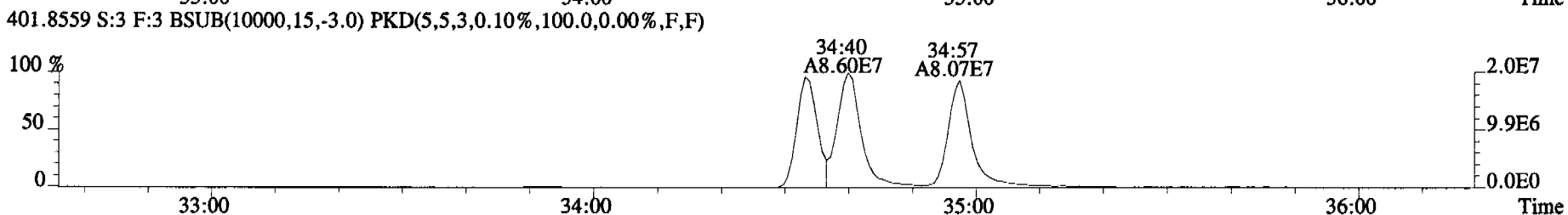
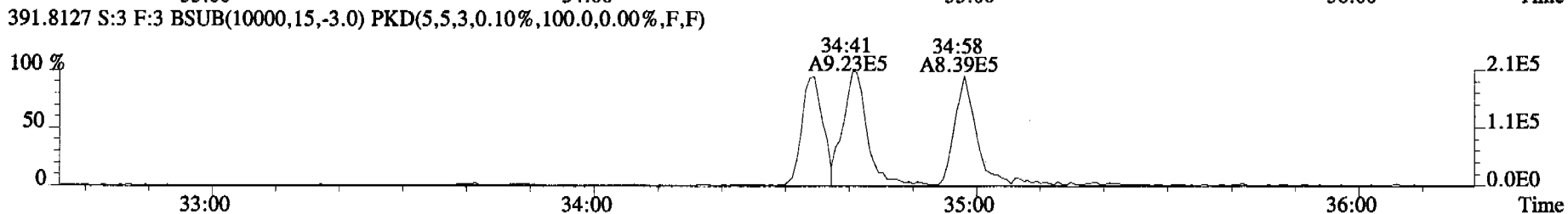
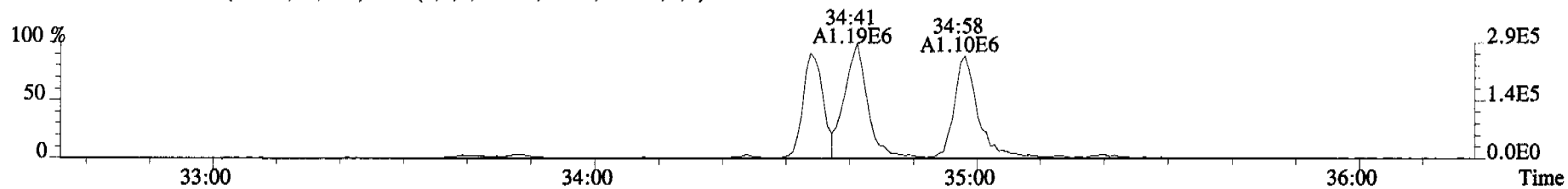




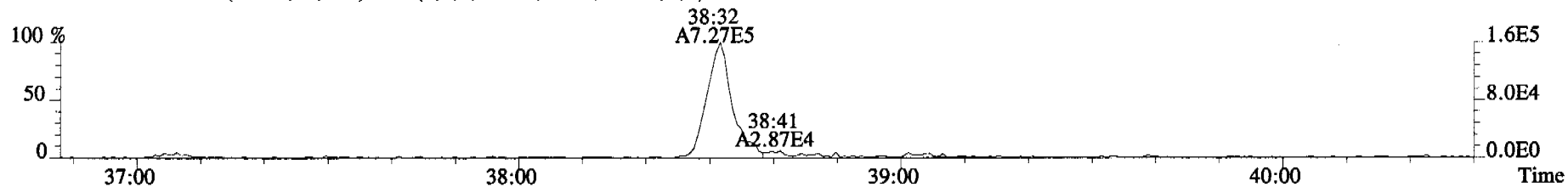
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



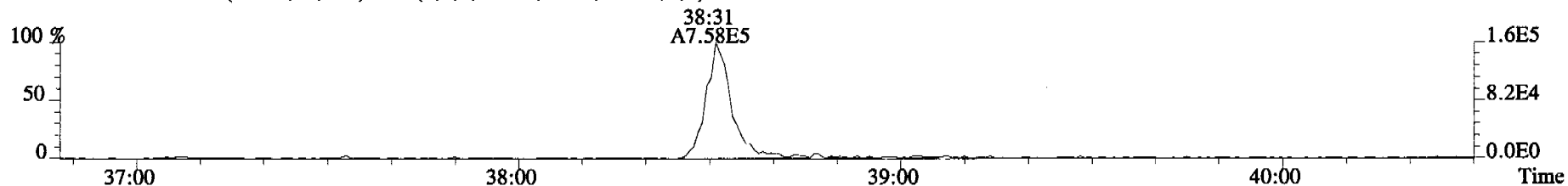
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



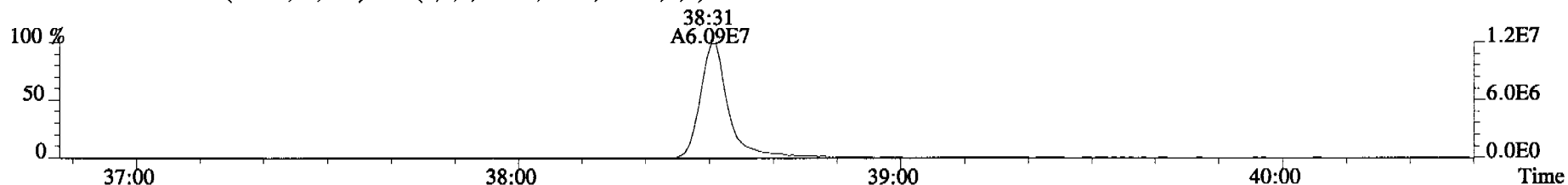
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



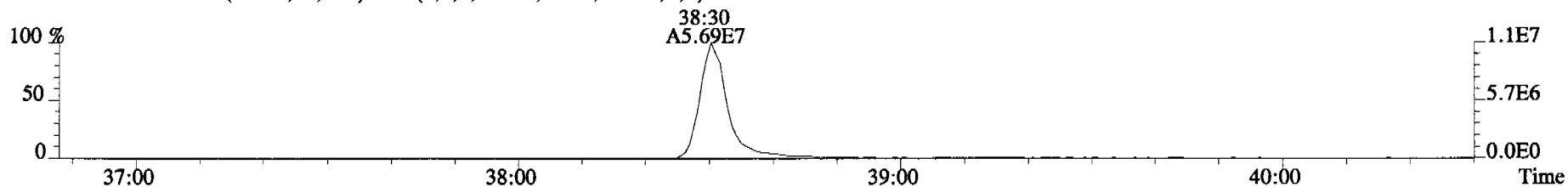
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



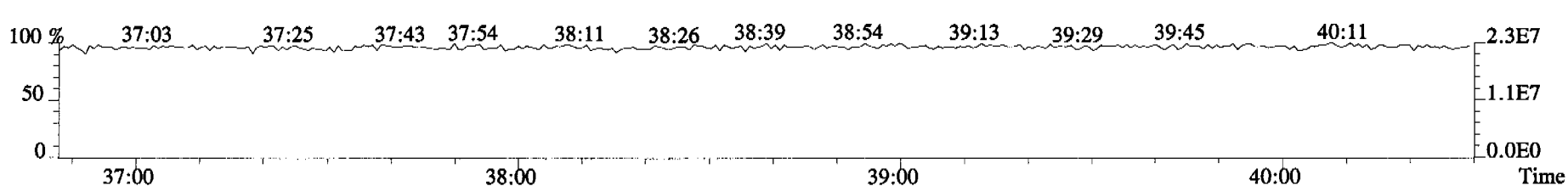
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



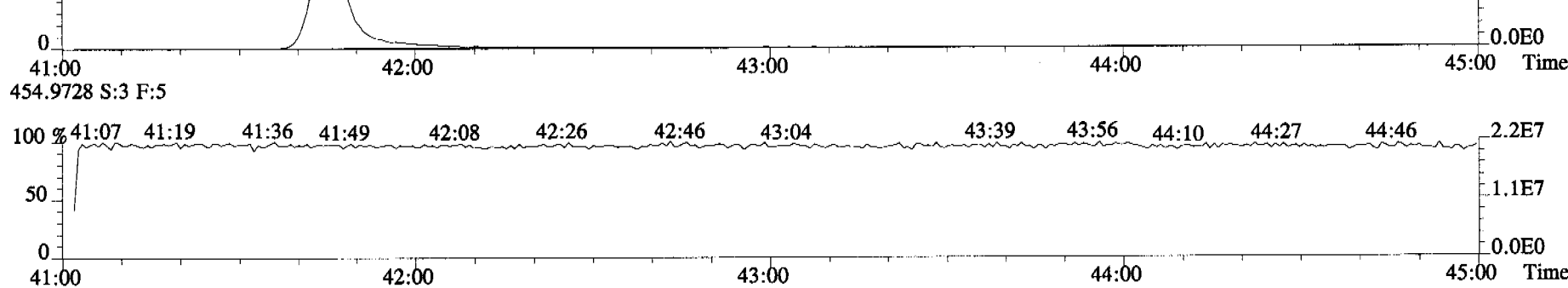
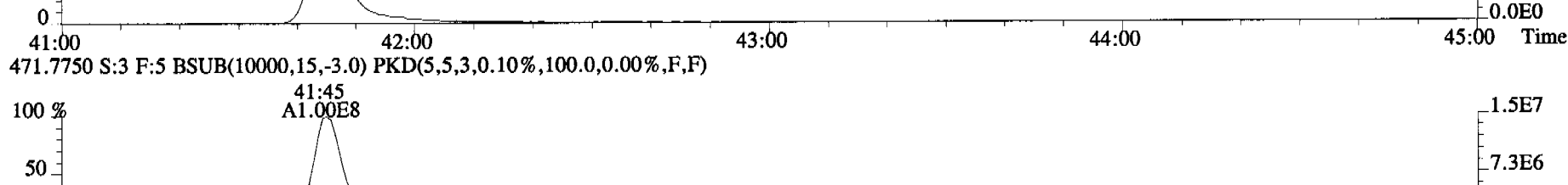
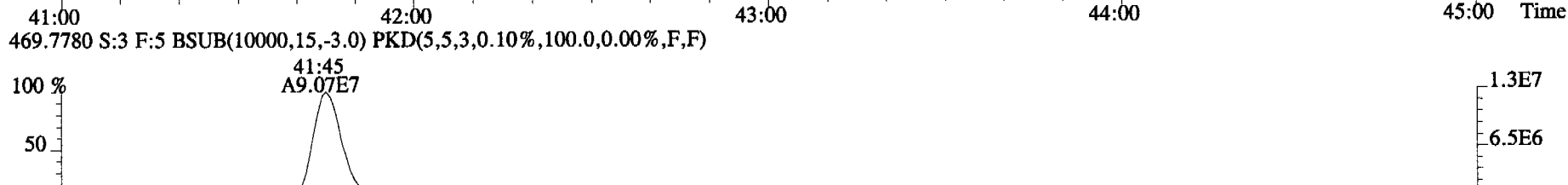
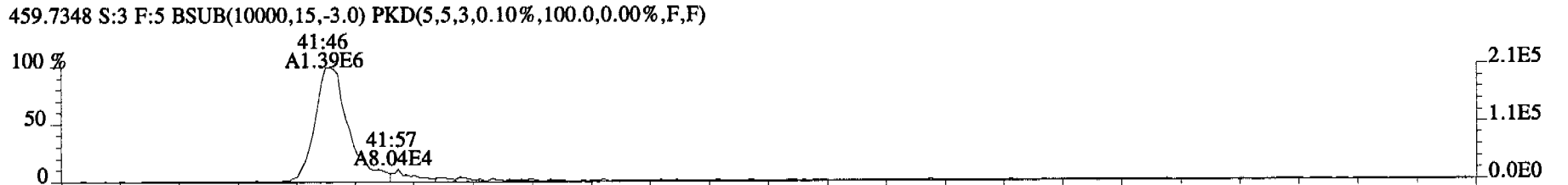
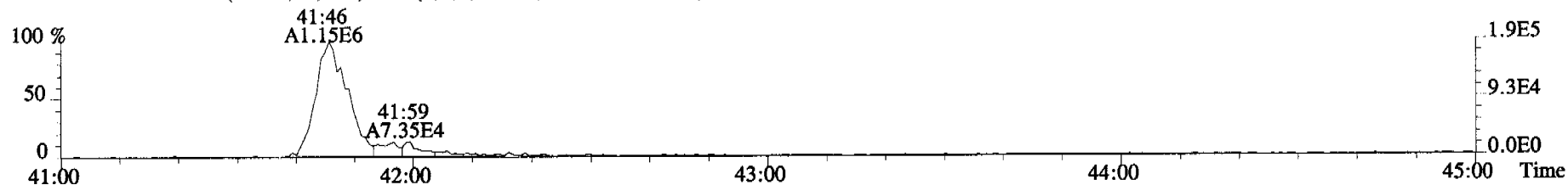
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



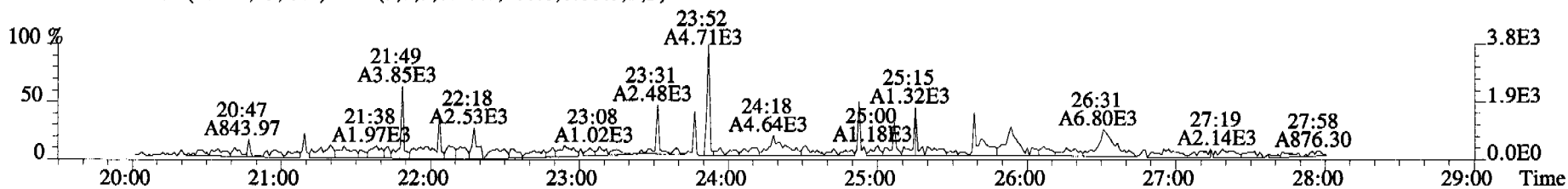
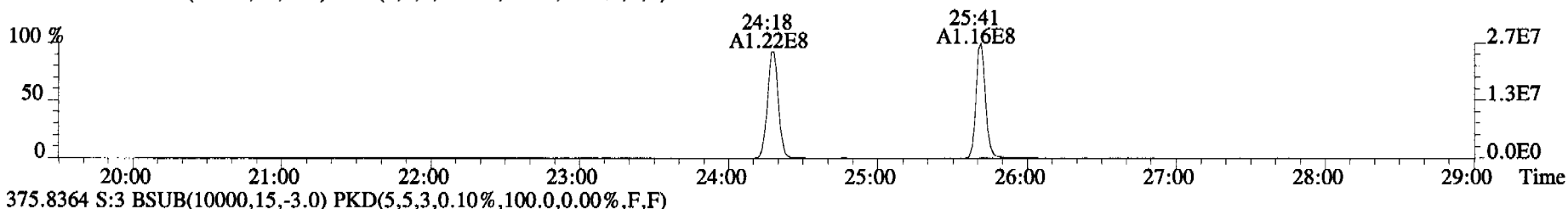
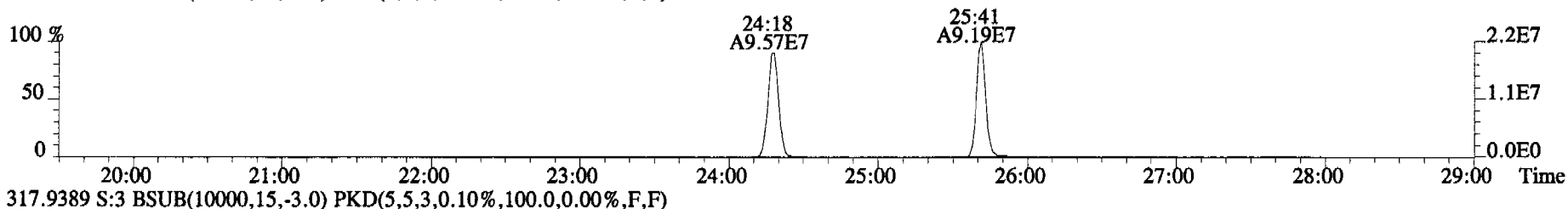
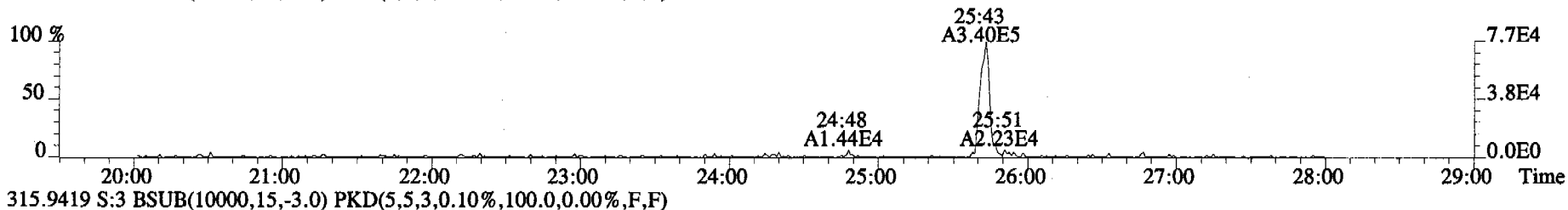
430.9728 S:3 F:4



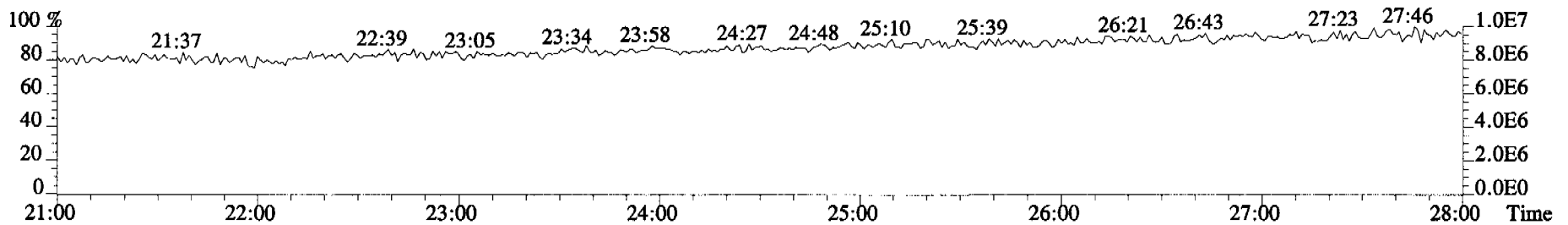
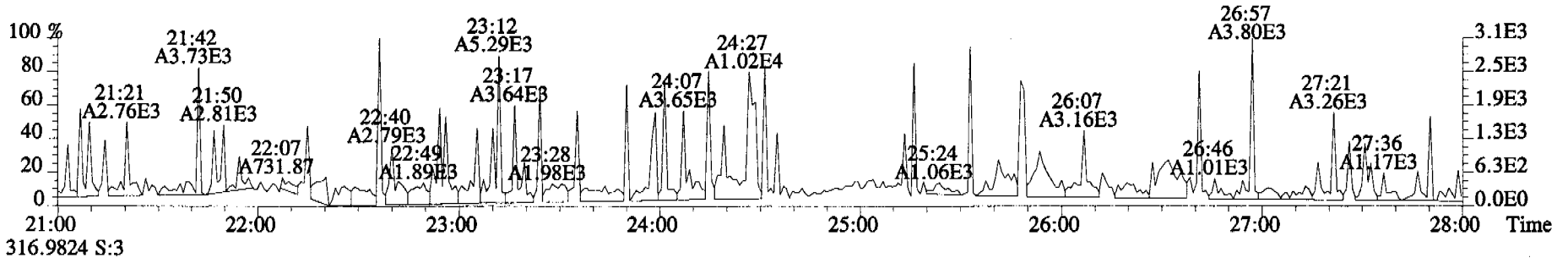
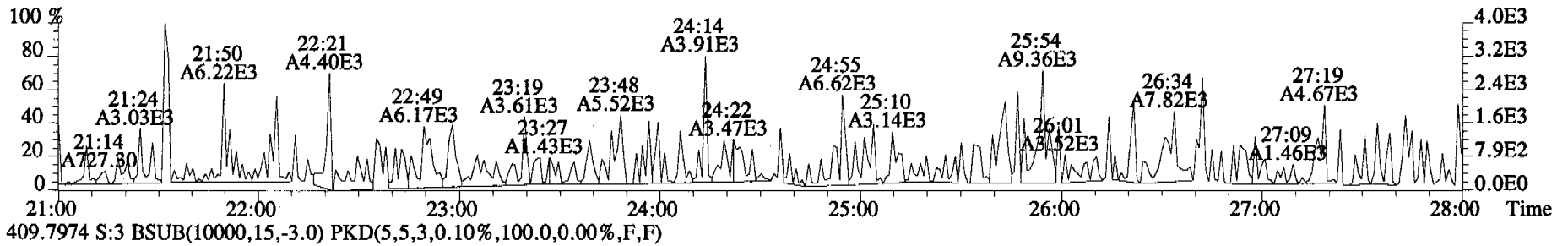
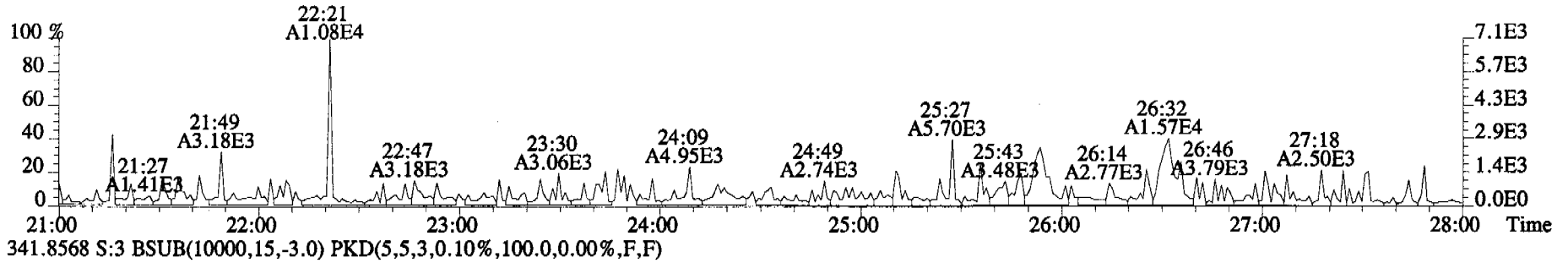
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



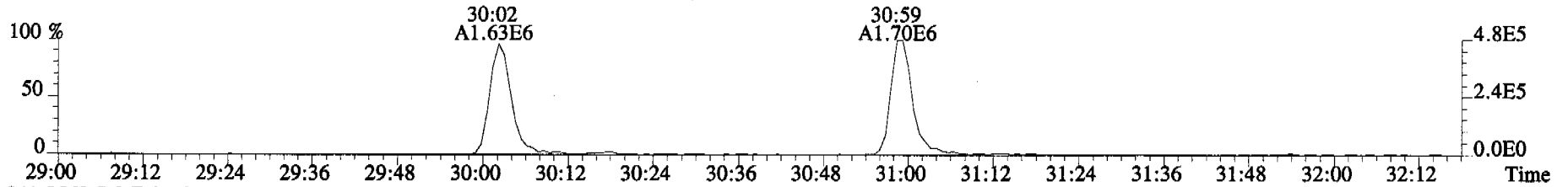
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



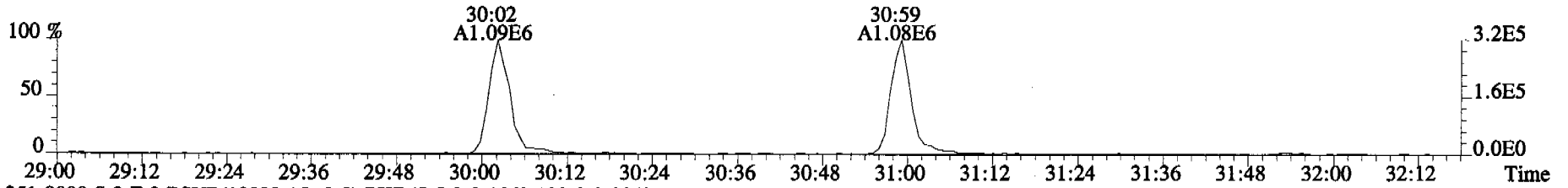
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



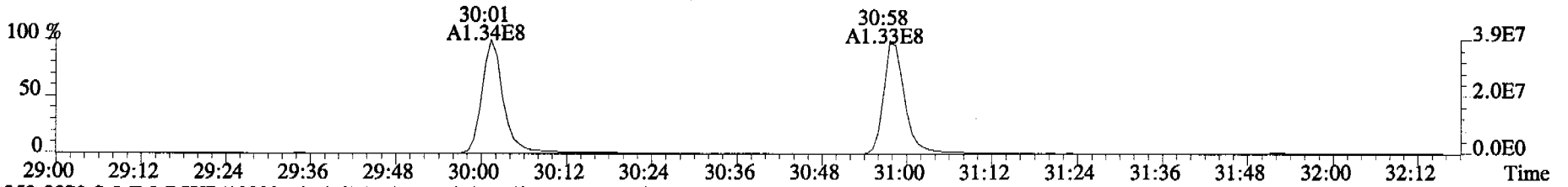
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



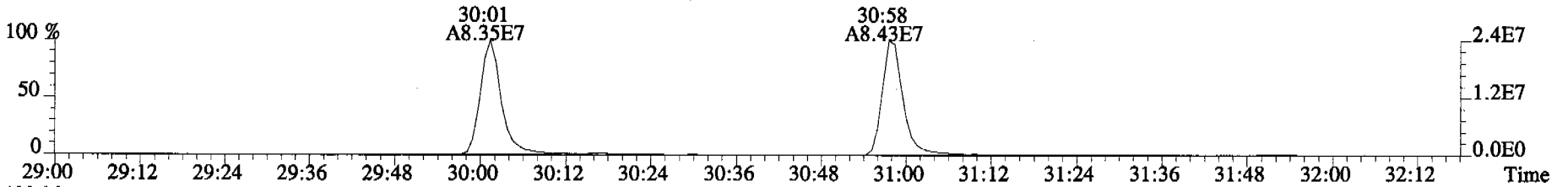
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



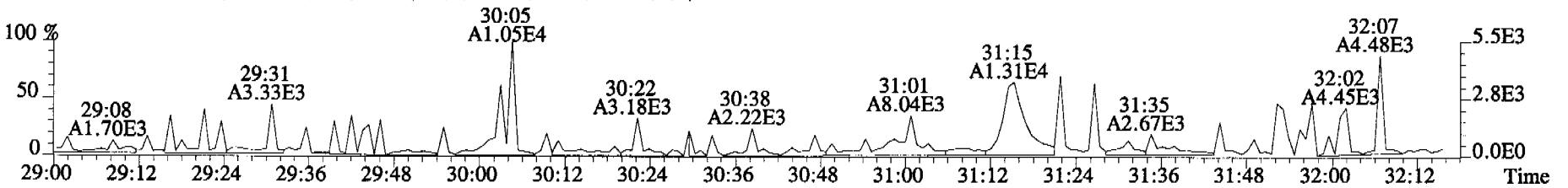
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



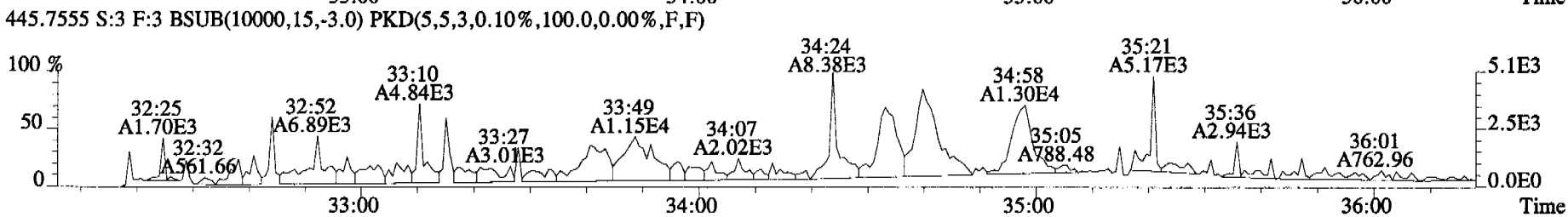
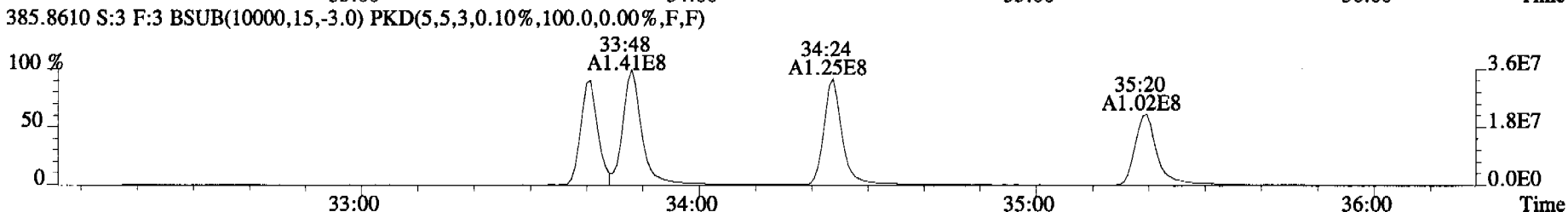
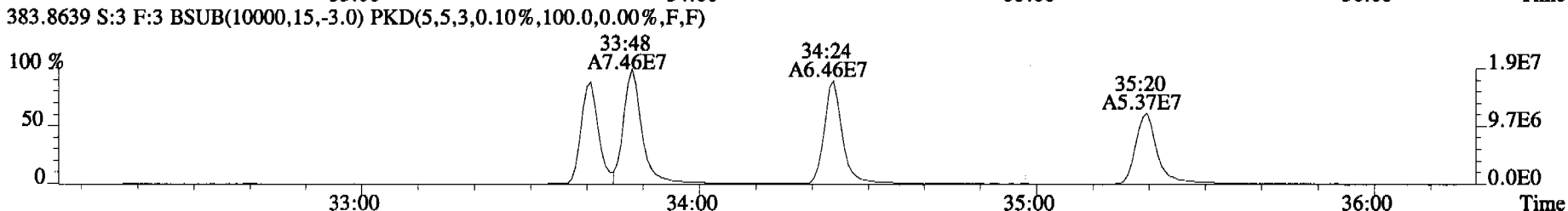
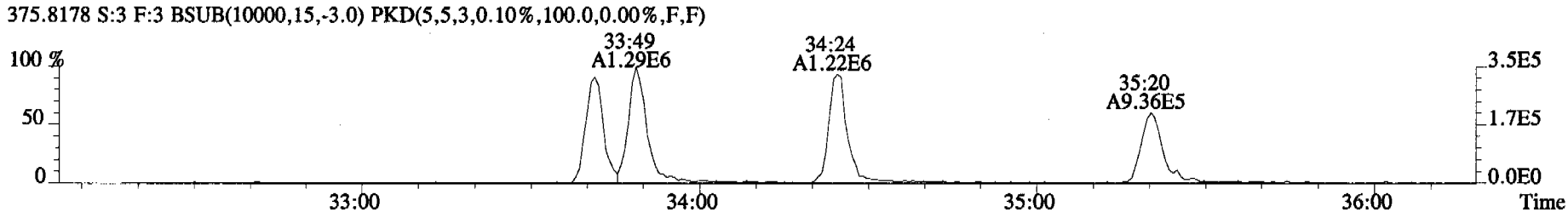
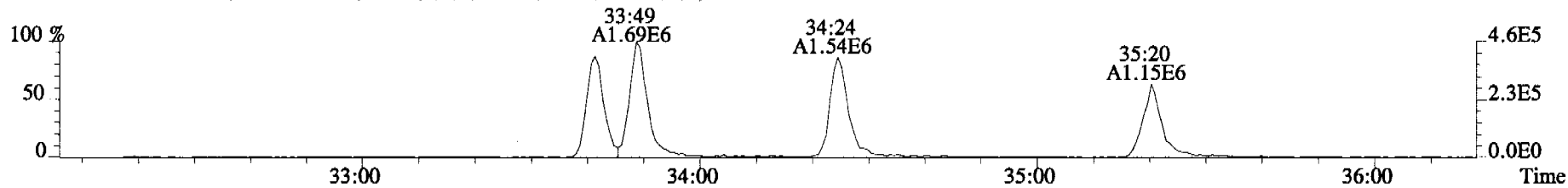
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

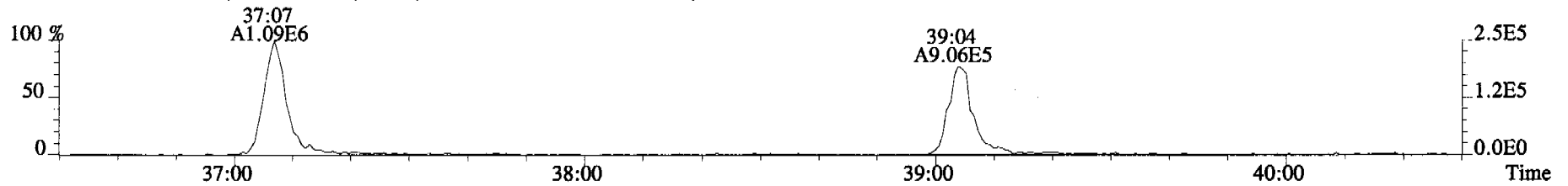


File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

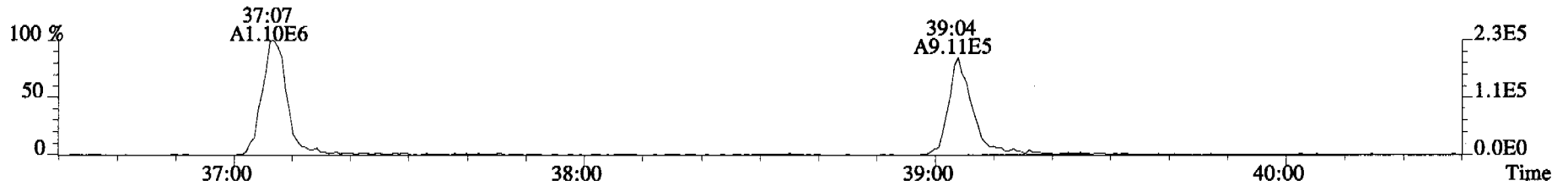




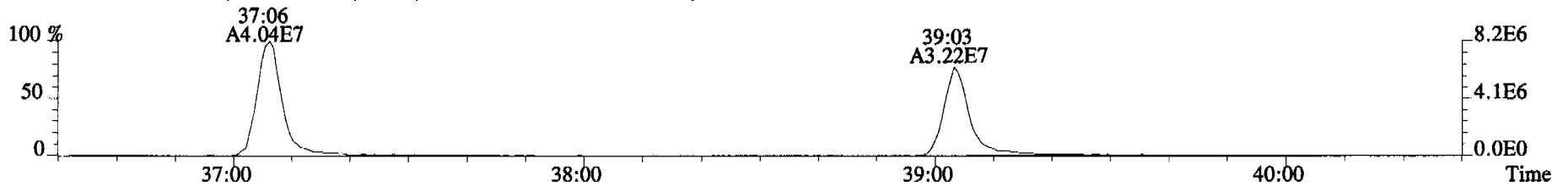
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



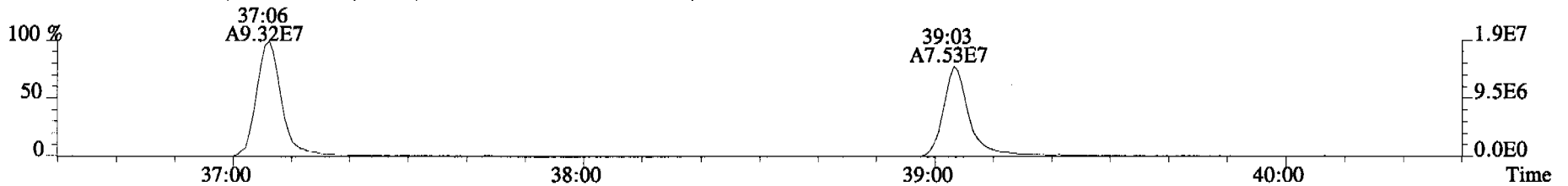
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



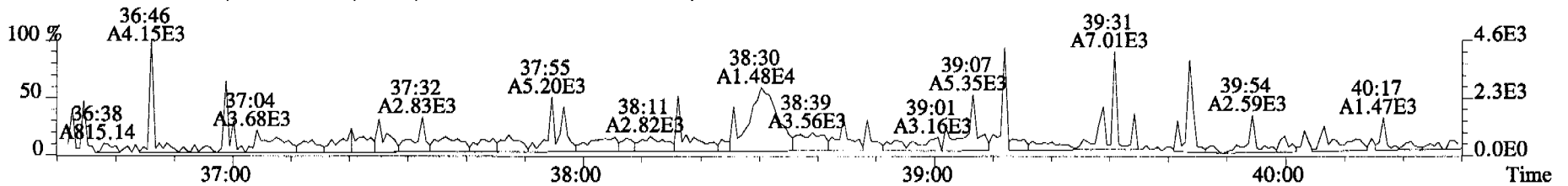
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



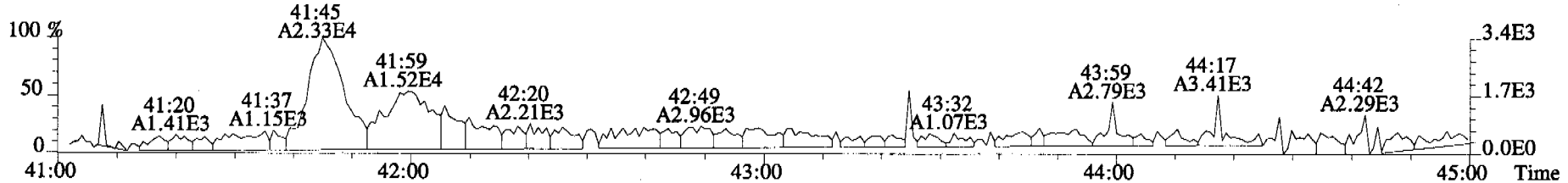
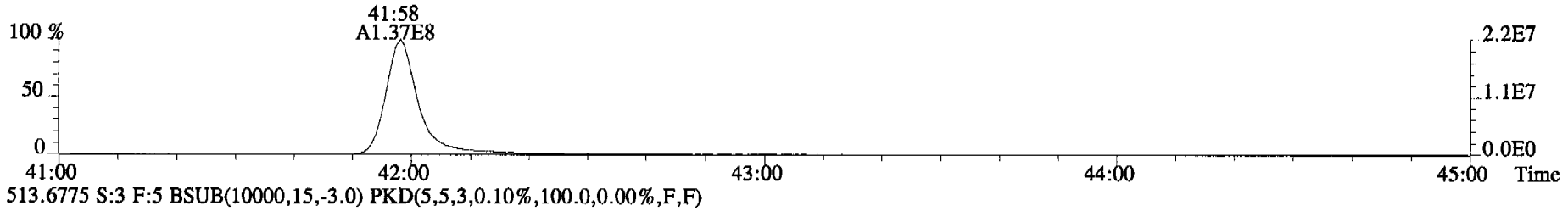
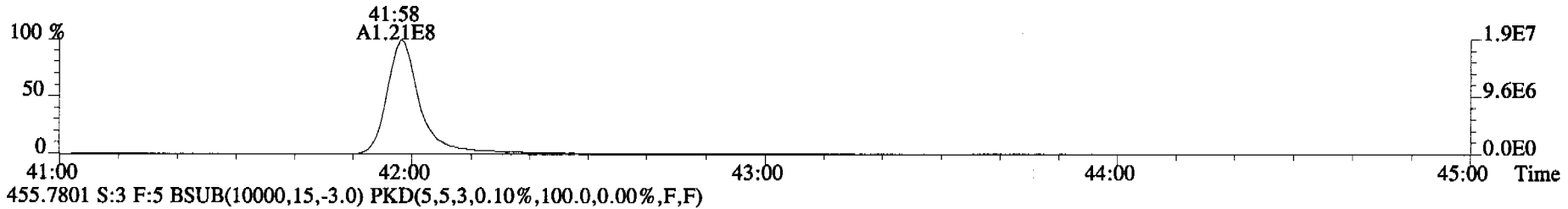
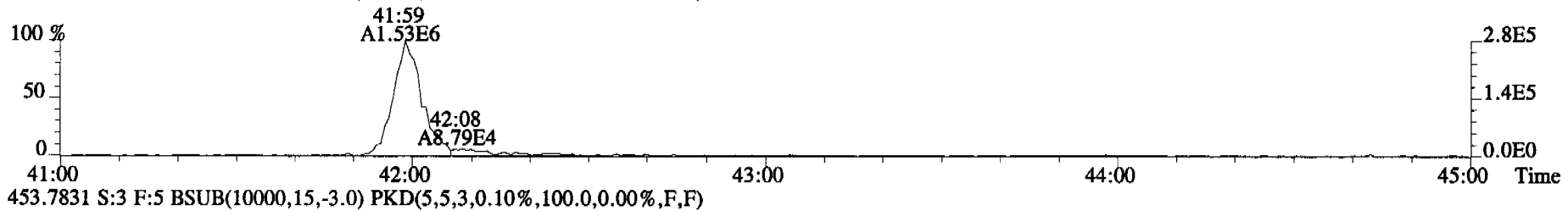
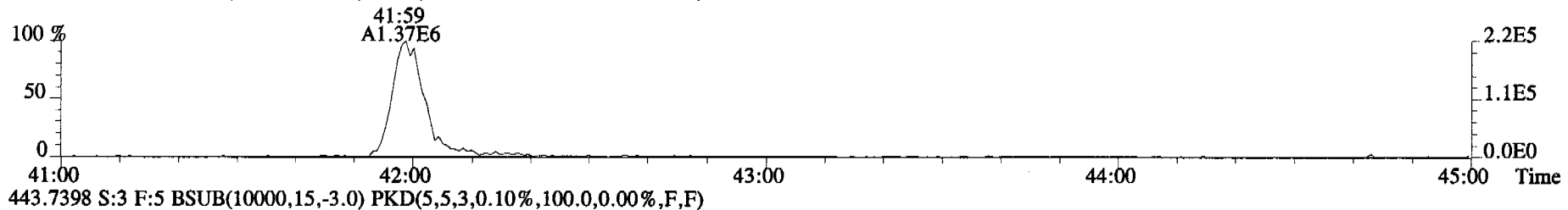
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



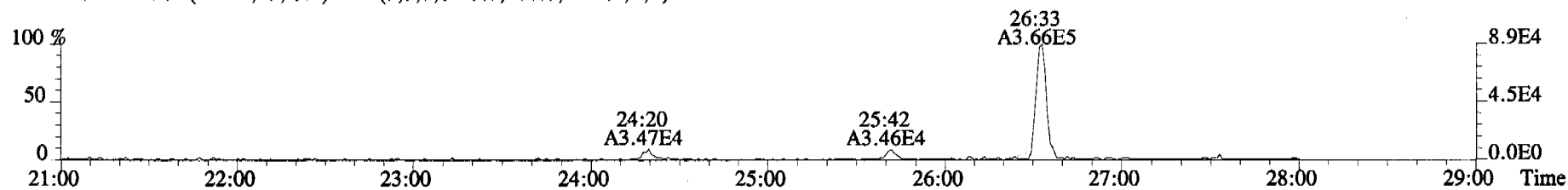
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



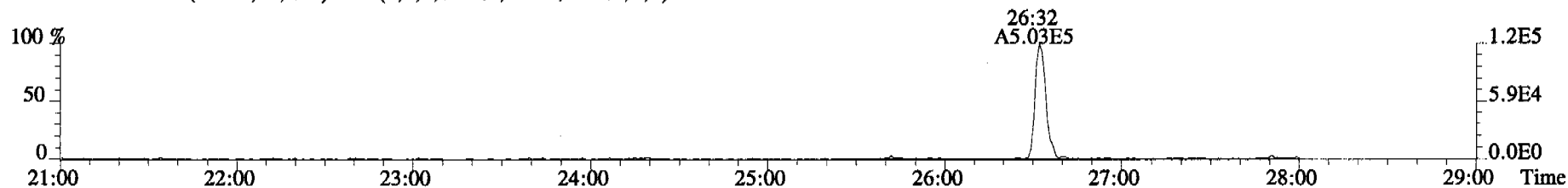
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



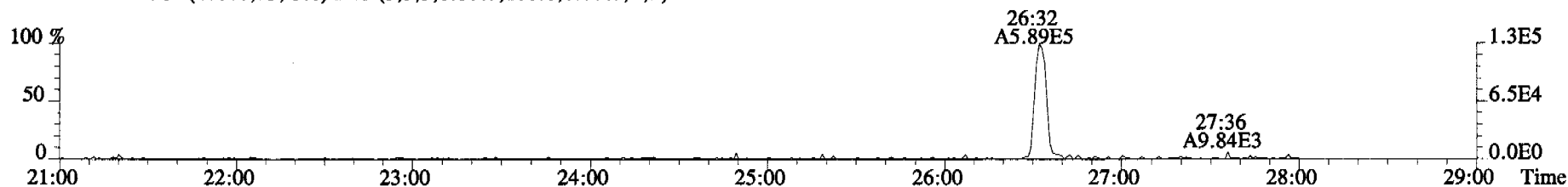
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



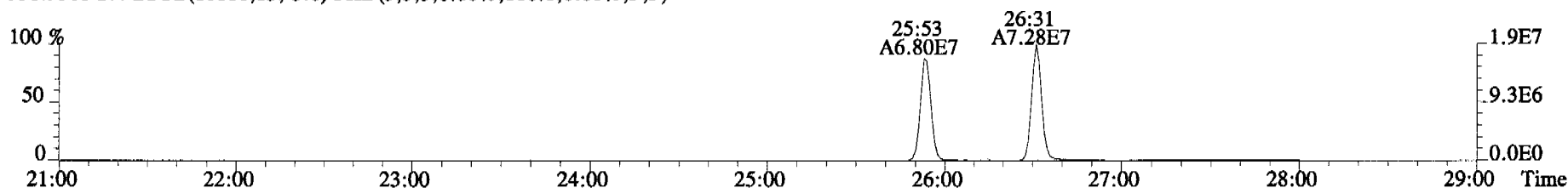
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



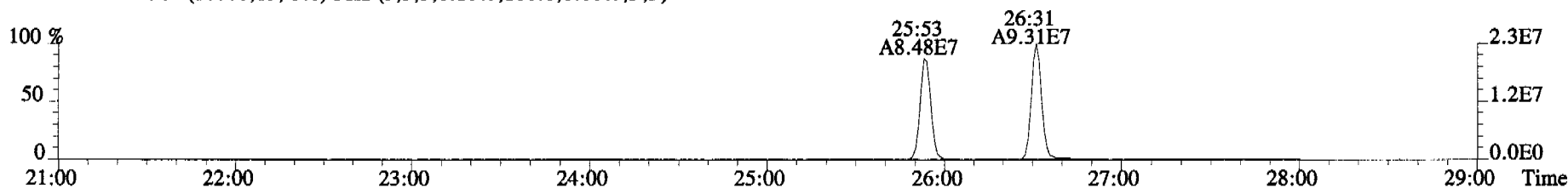
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



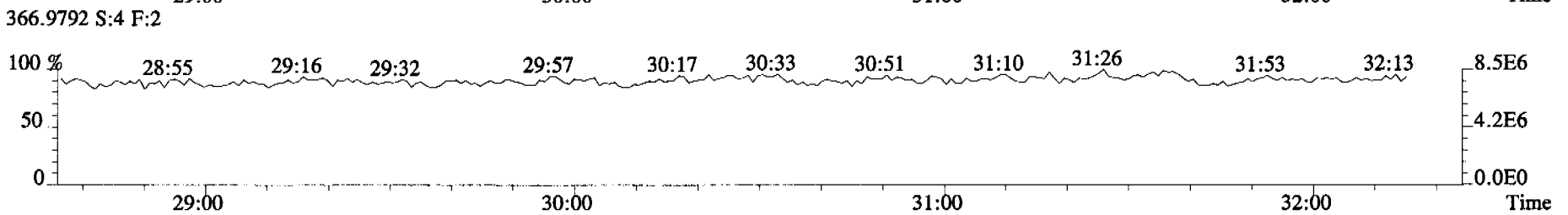
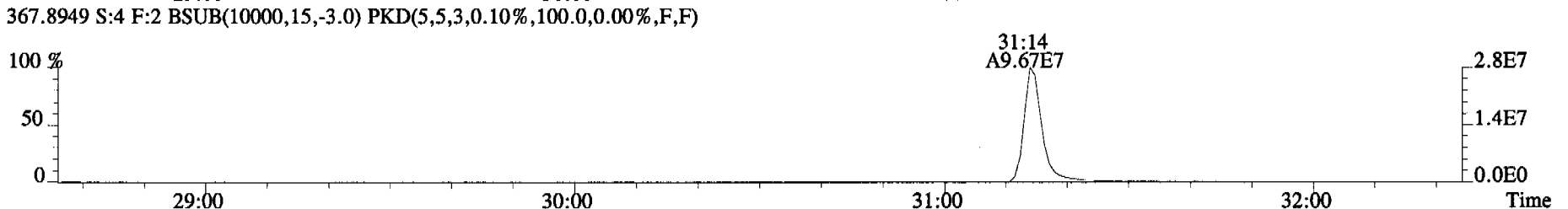
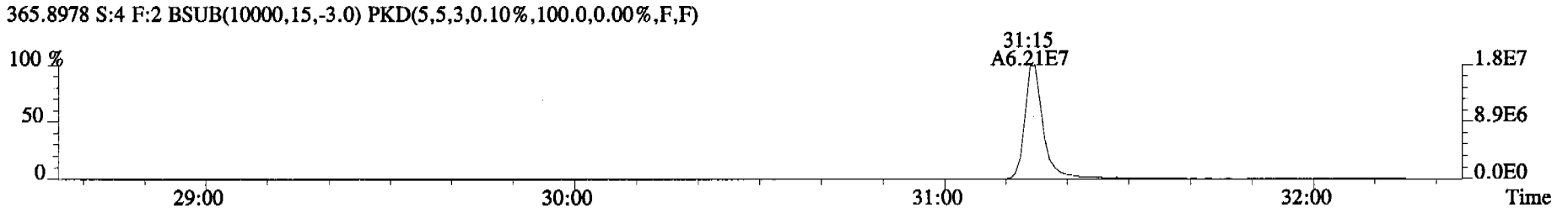
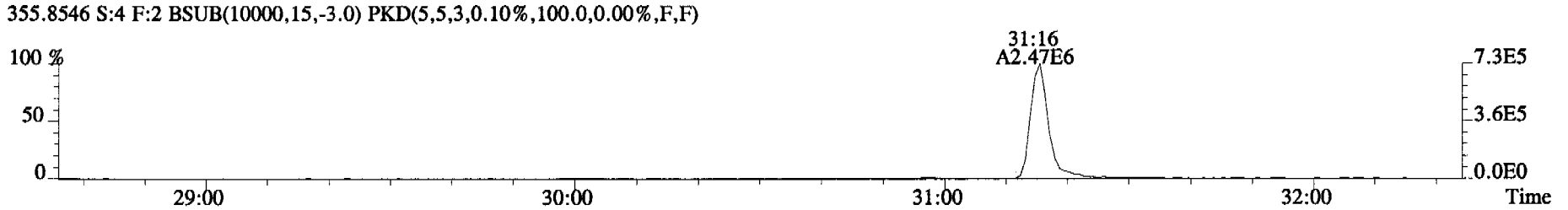
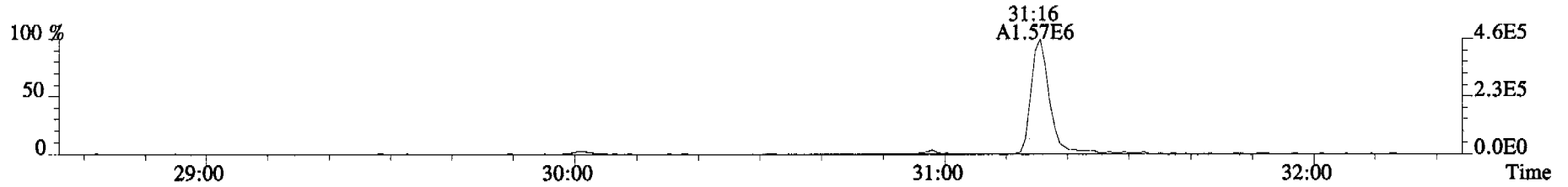
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



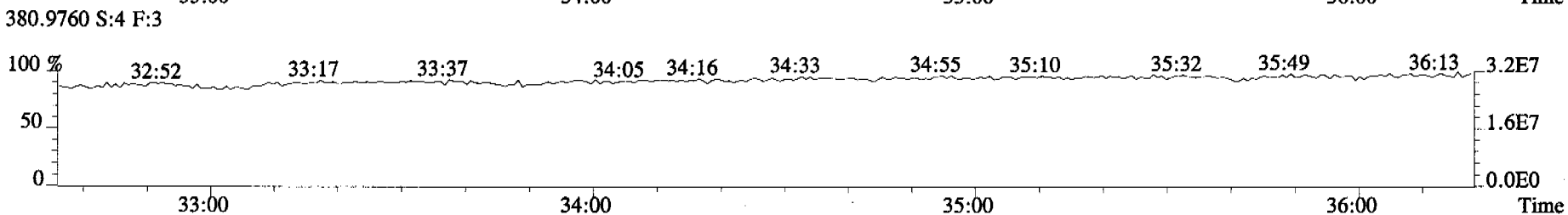
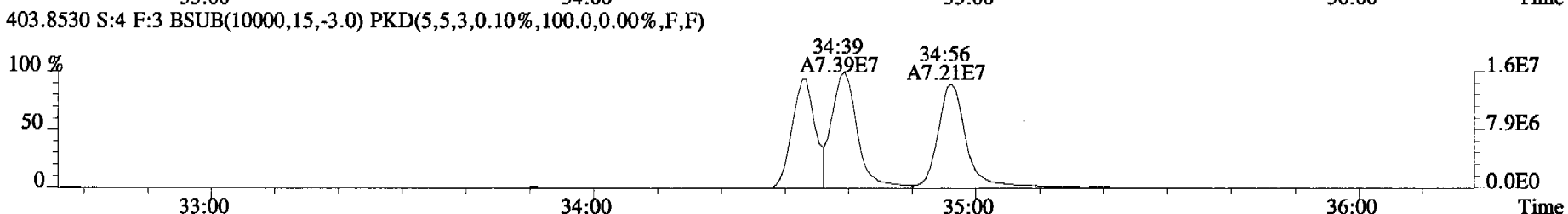
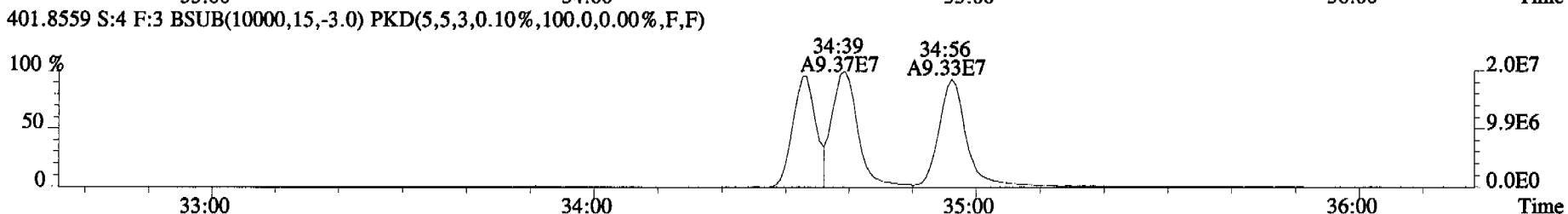
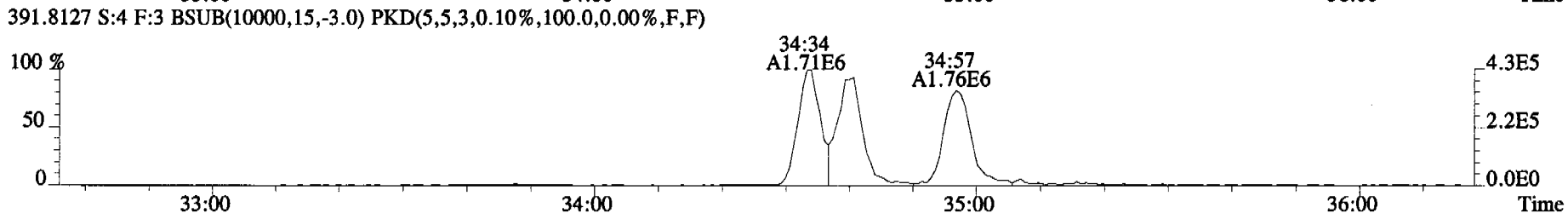
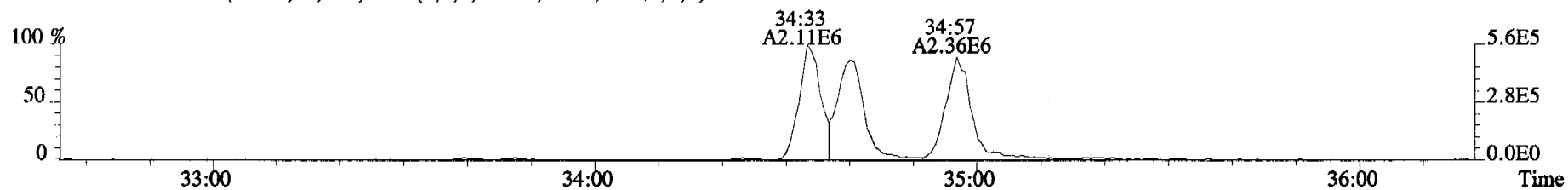
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



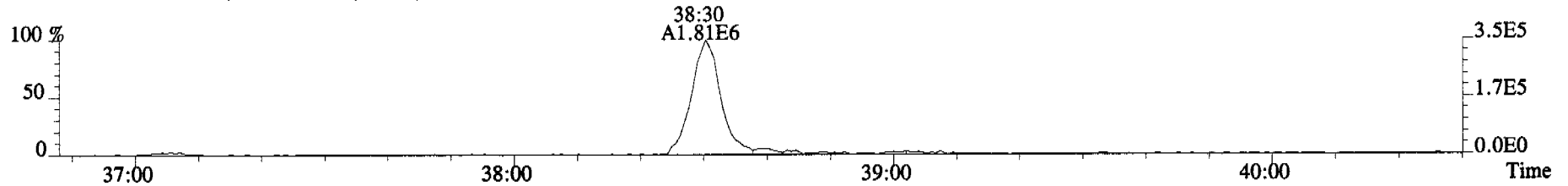
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



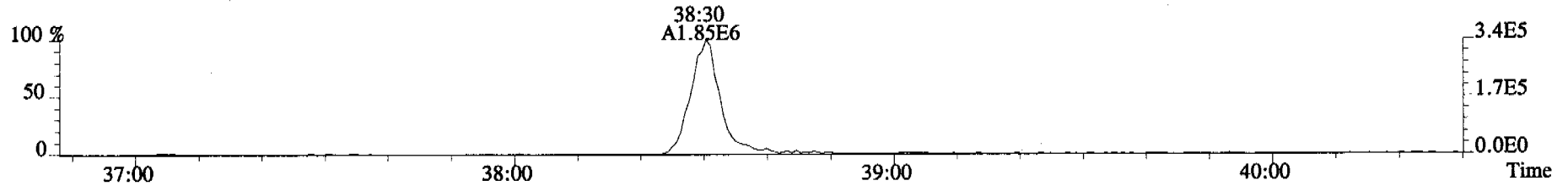
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



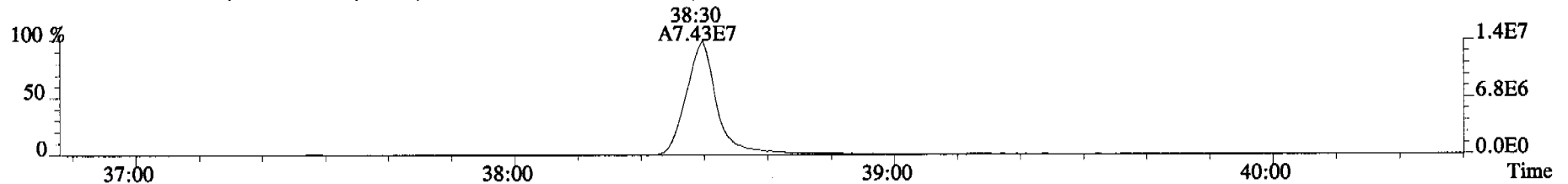
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



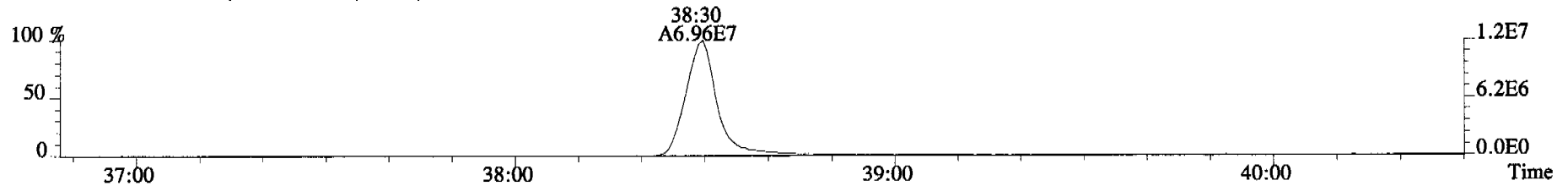
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



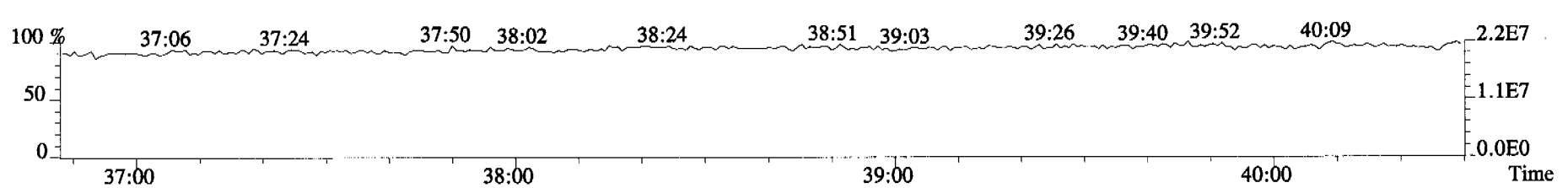
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



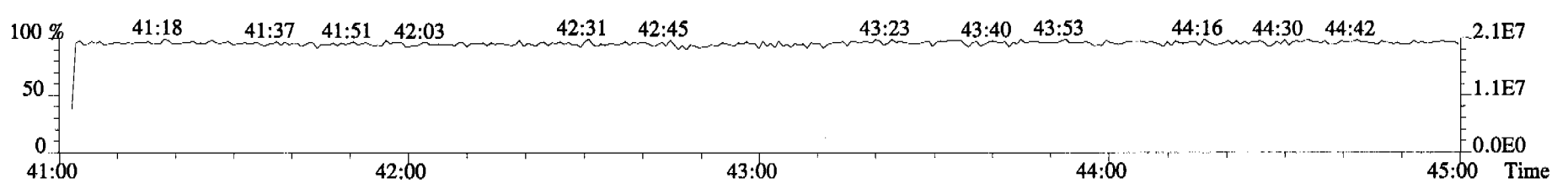
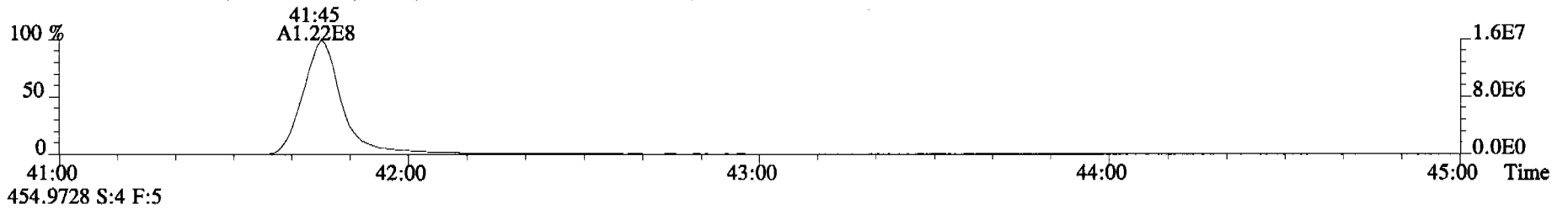
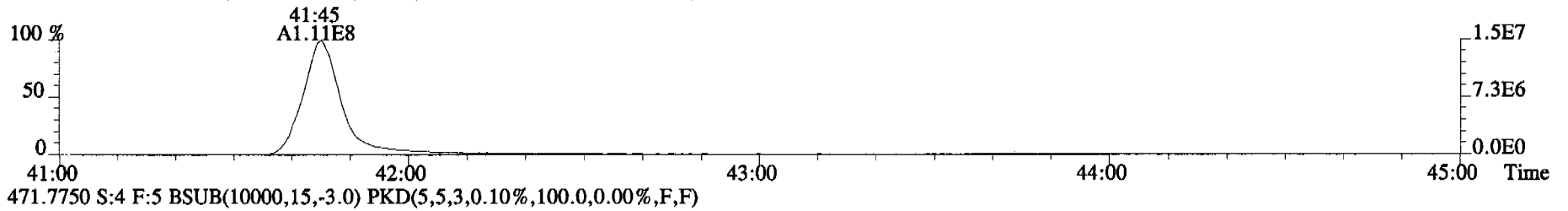
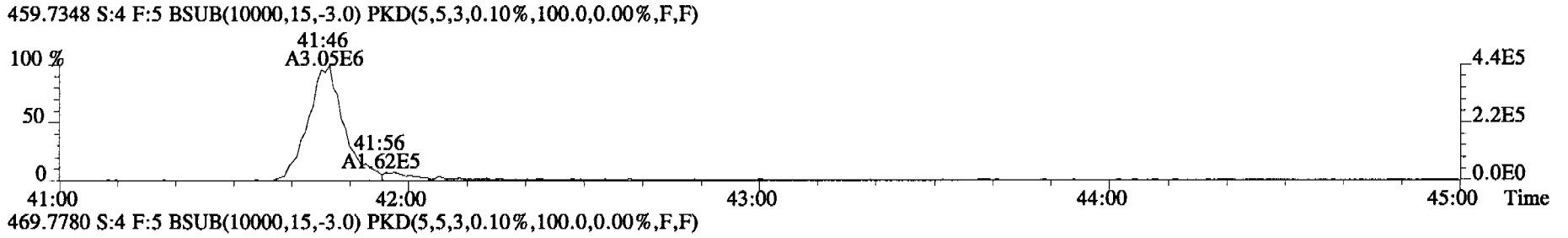
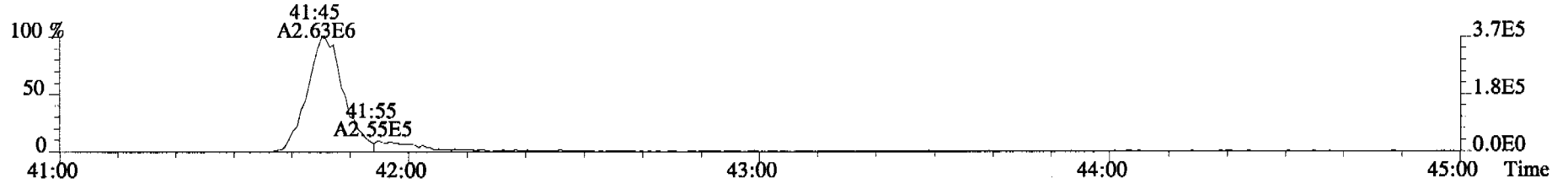
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



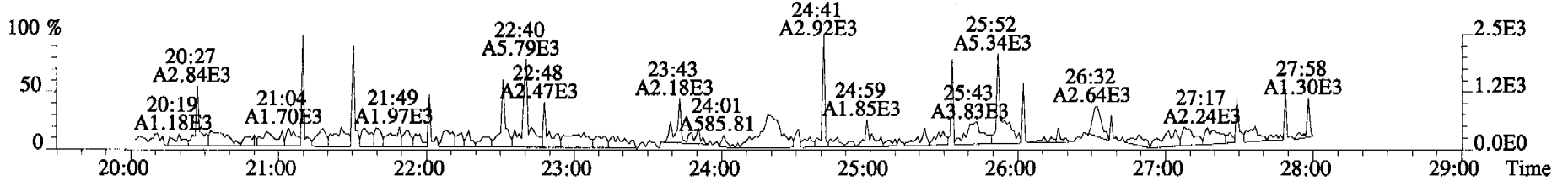
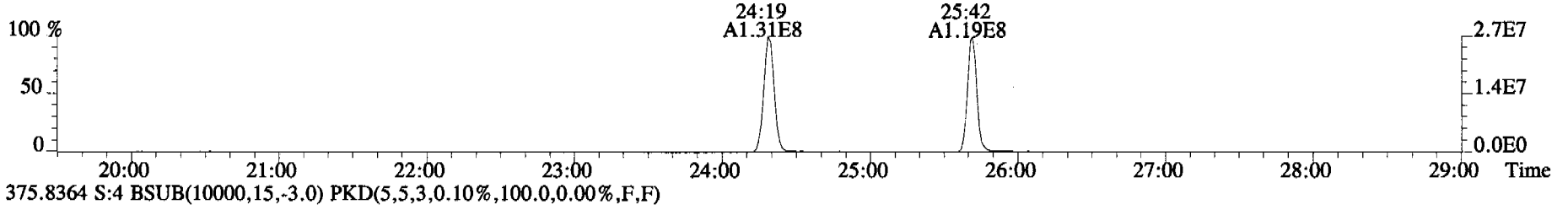
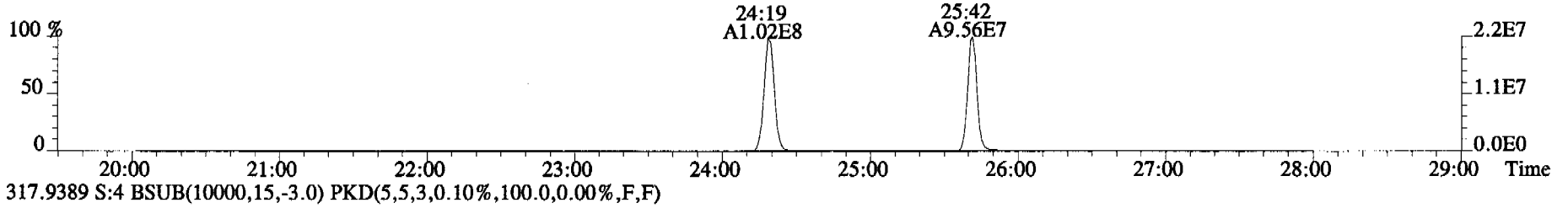
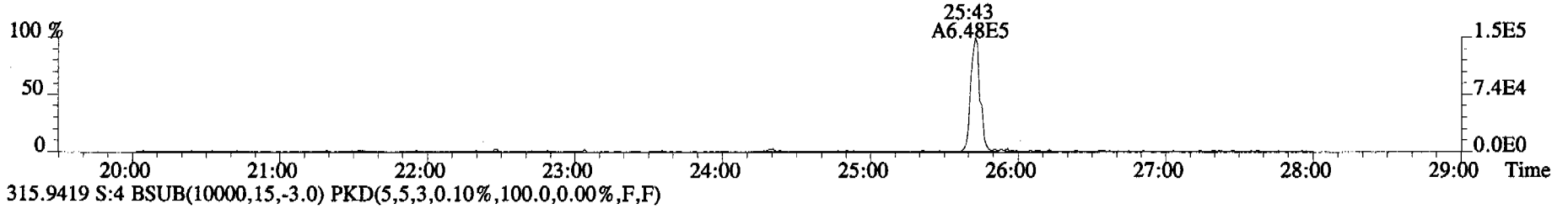
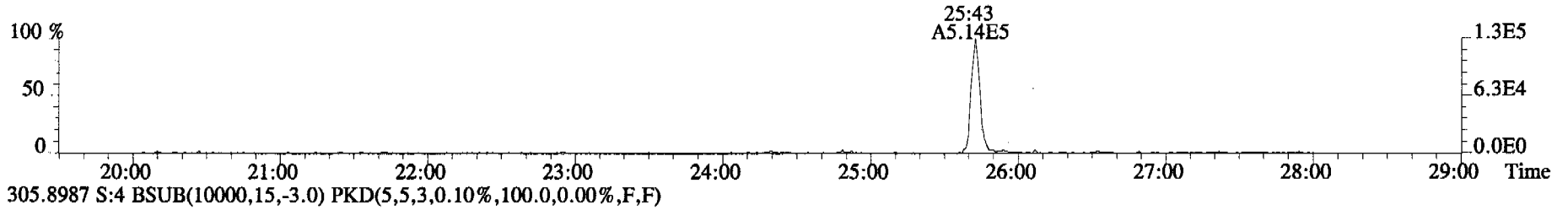
430.9728 S:4 F:4



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)

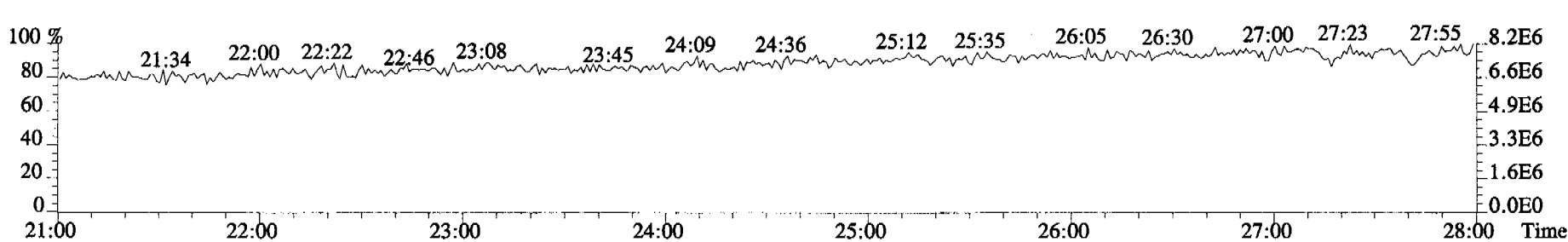
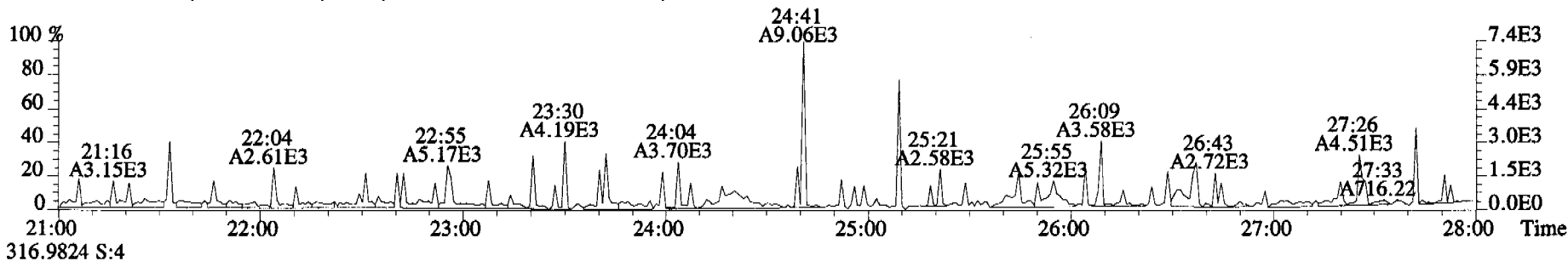
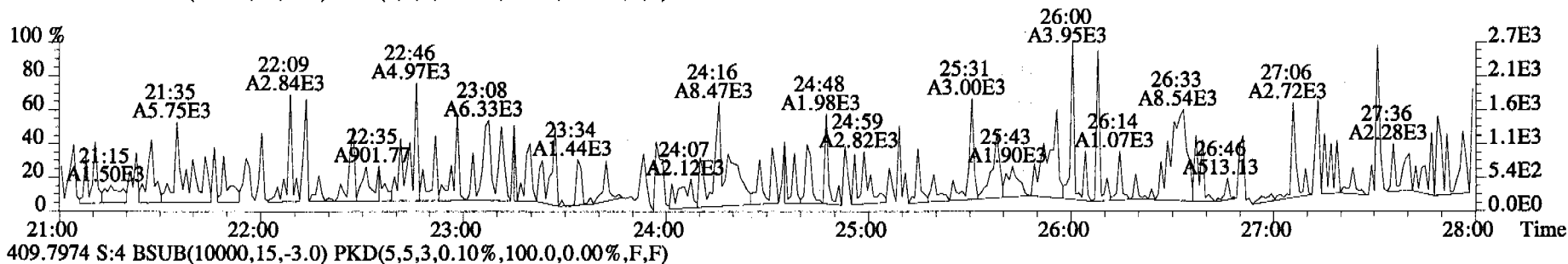
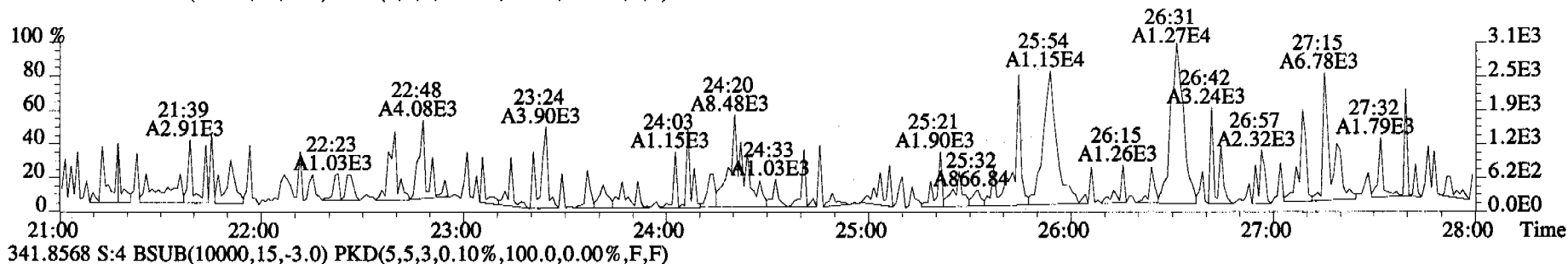


File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

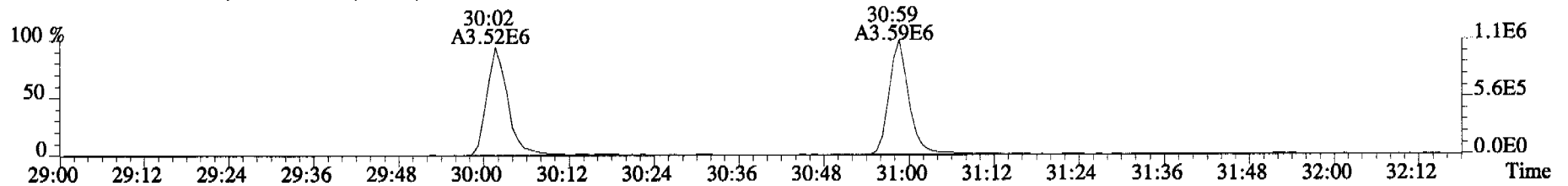




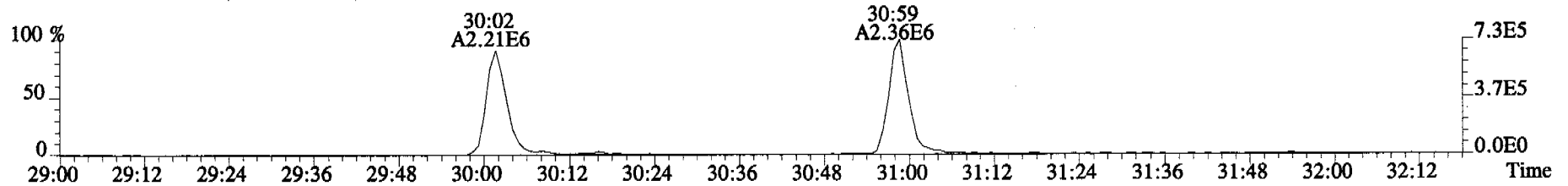
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



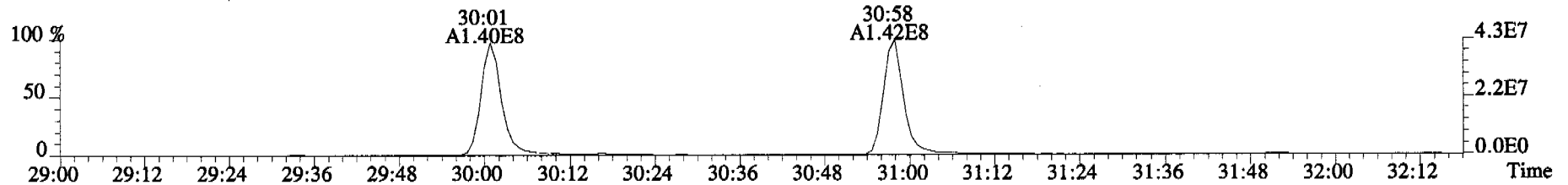
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



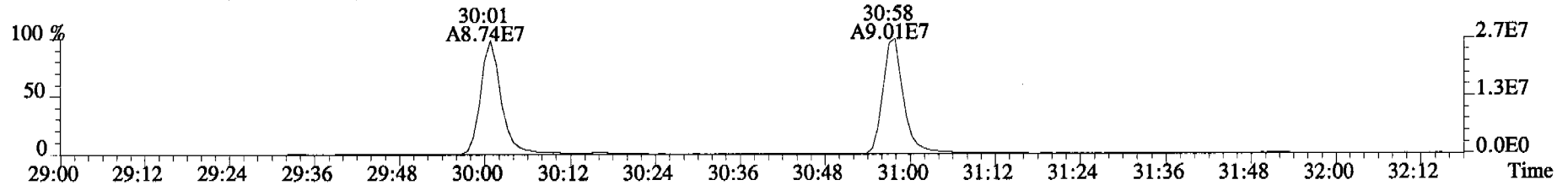
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



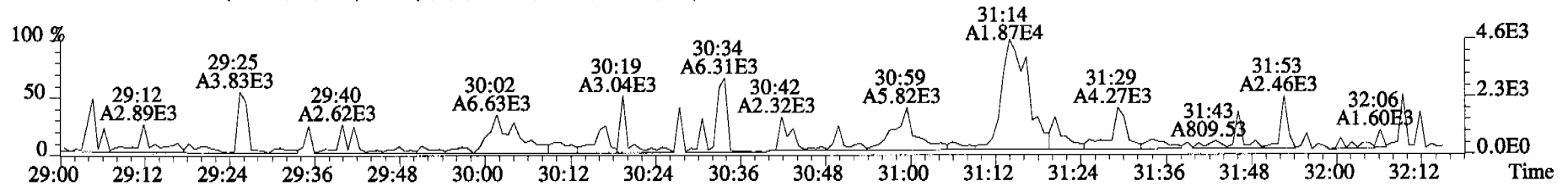
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



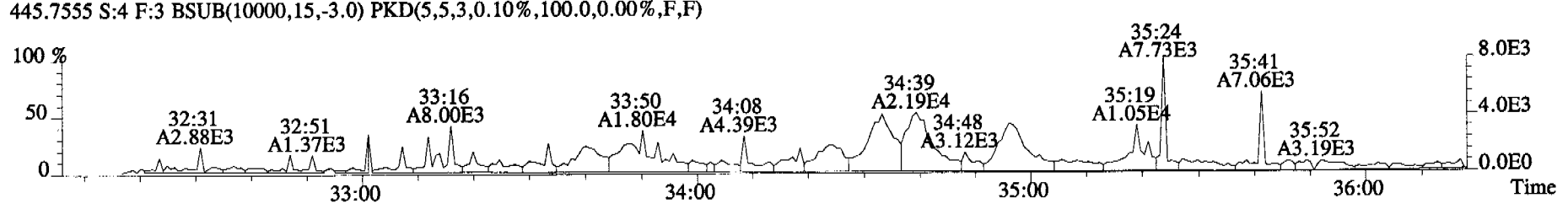
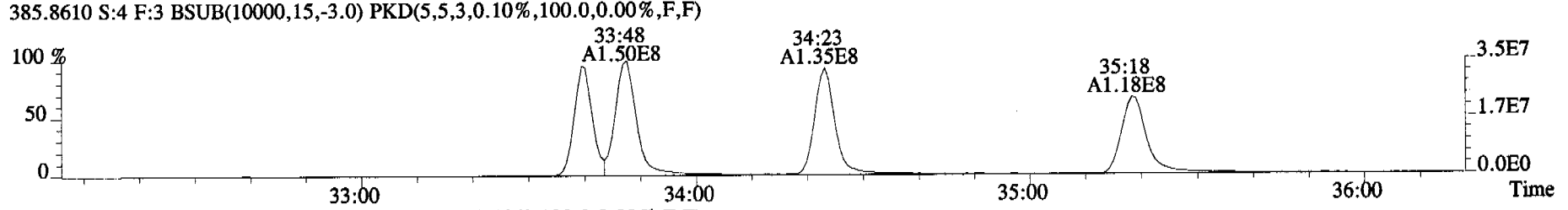
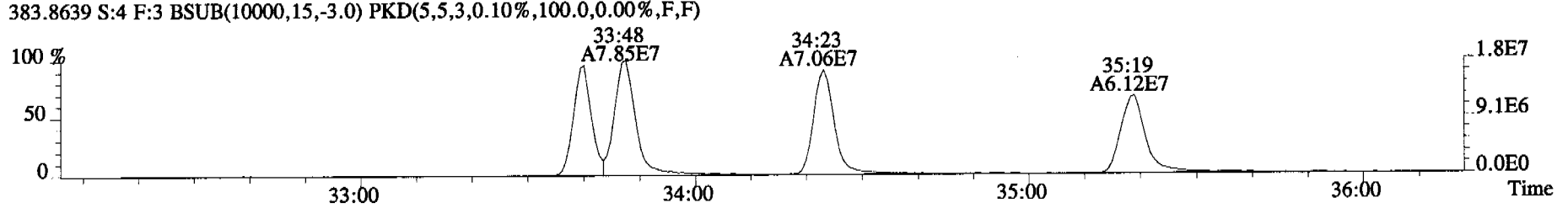
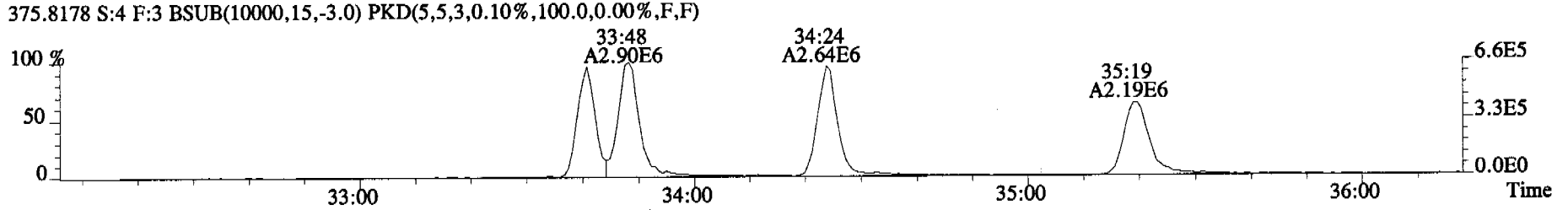
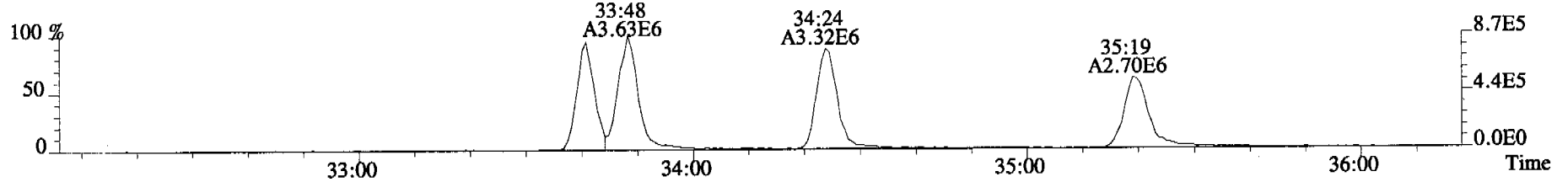
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



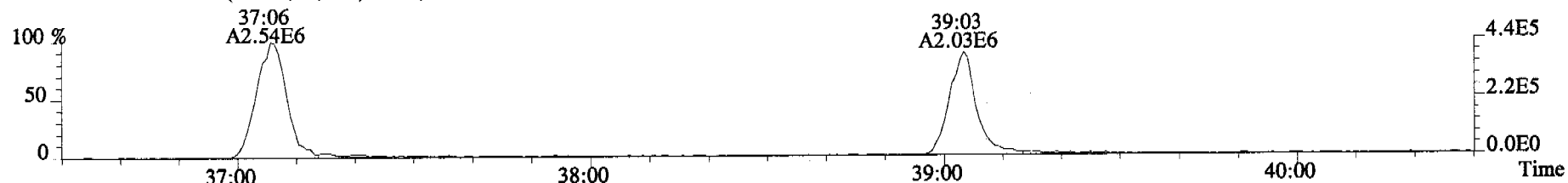
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



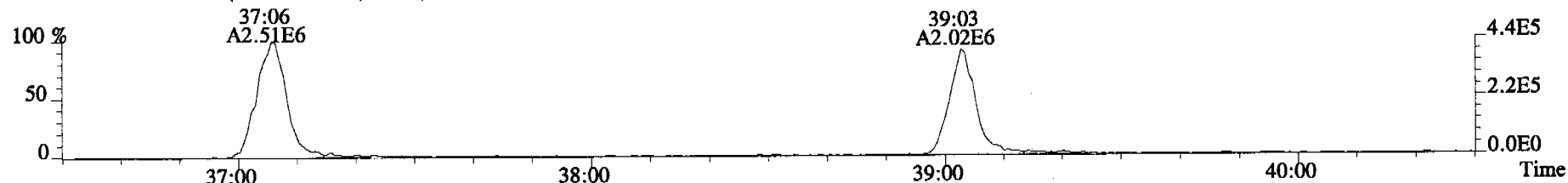
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



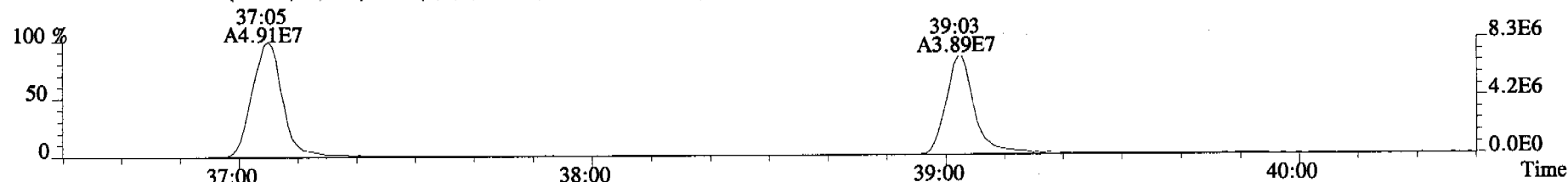
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



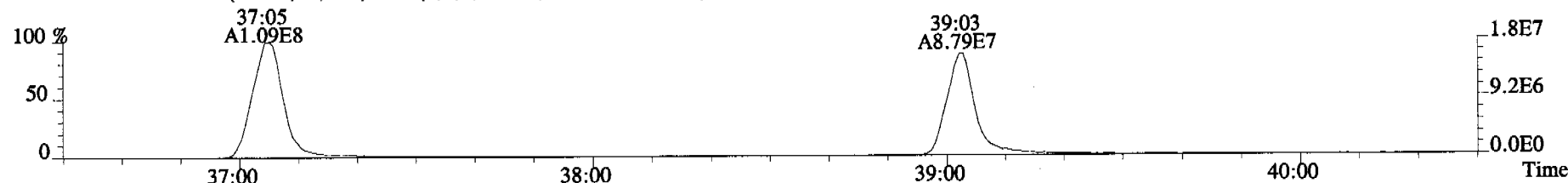
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



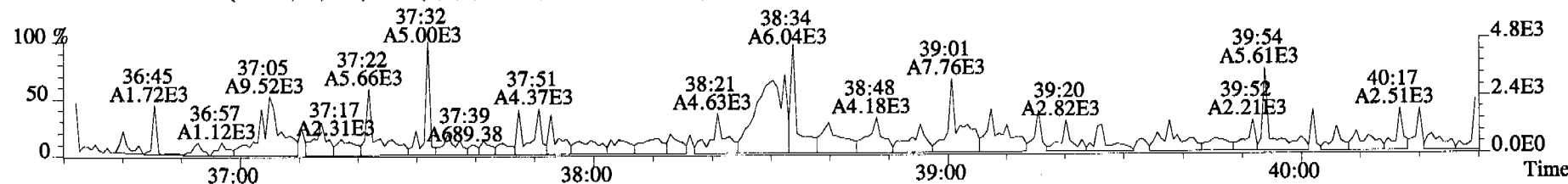
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



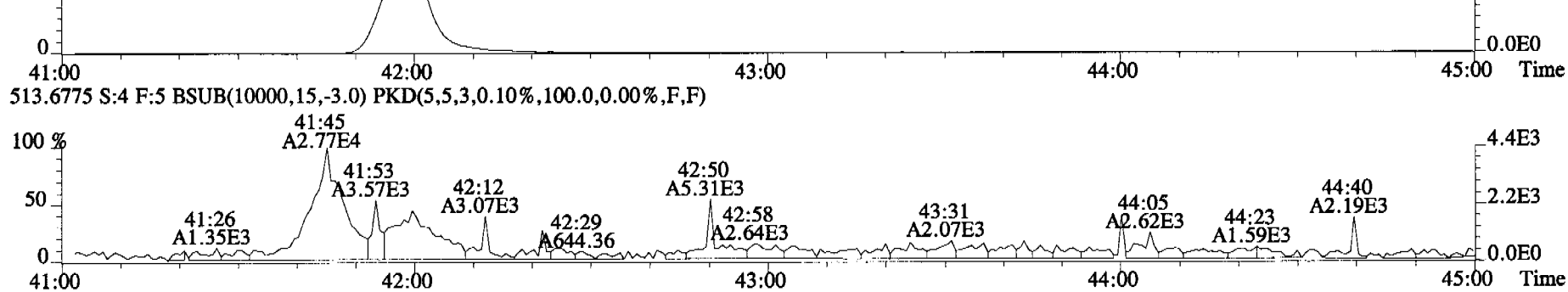
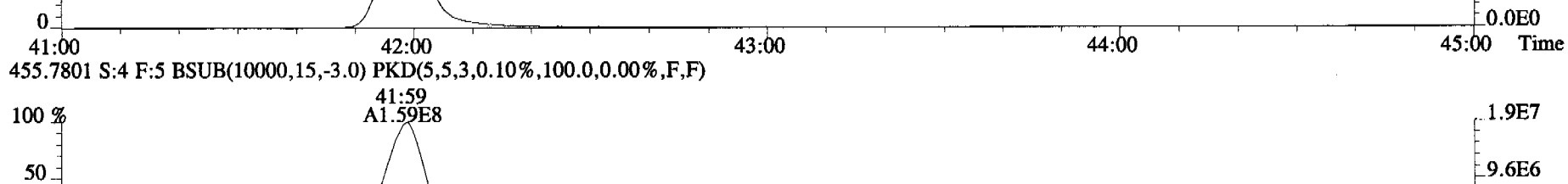
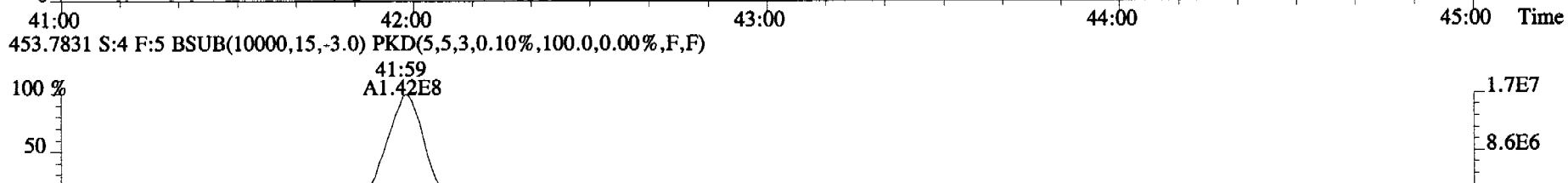
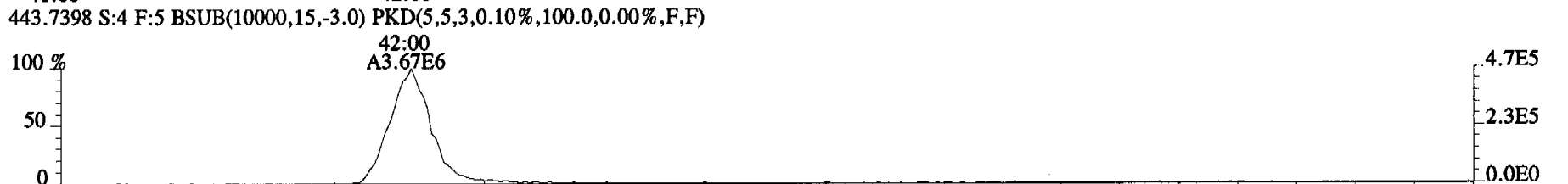
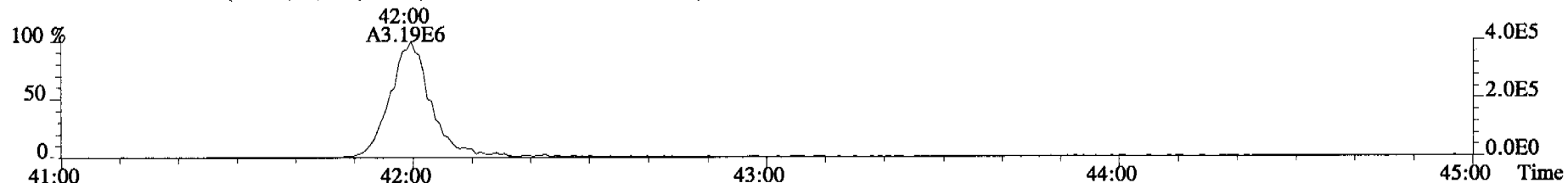
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



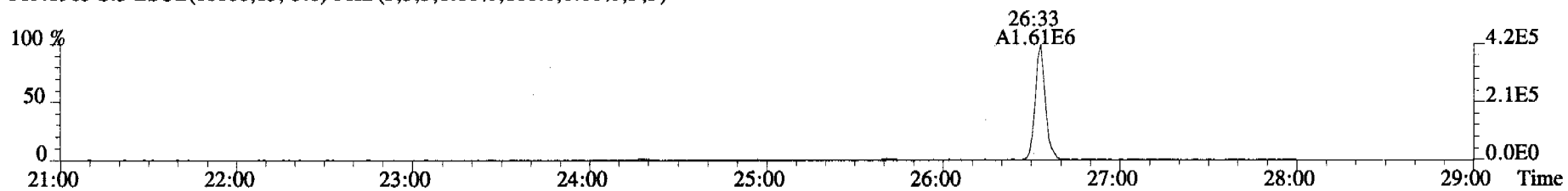
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



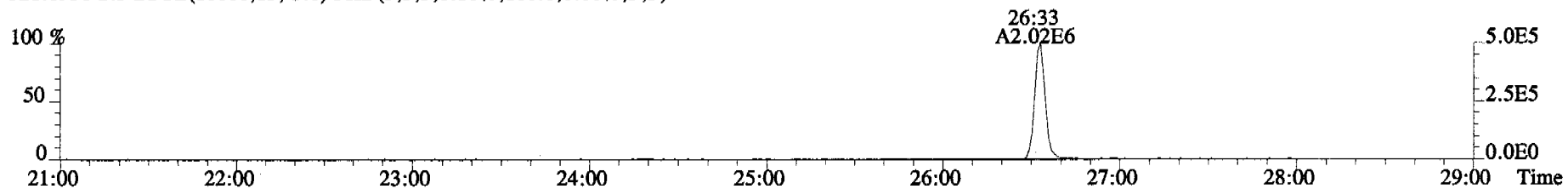
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



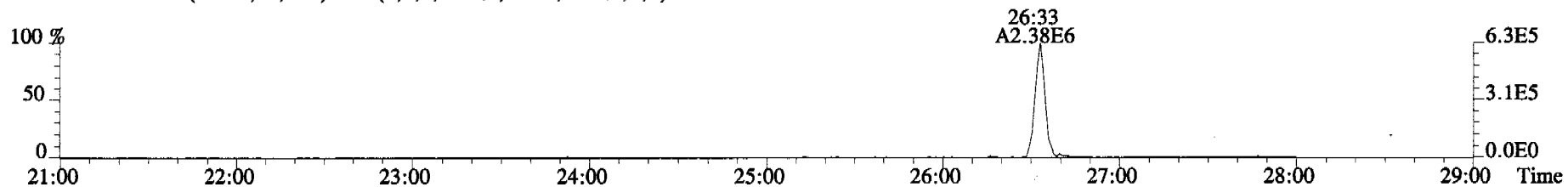
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



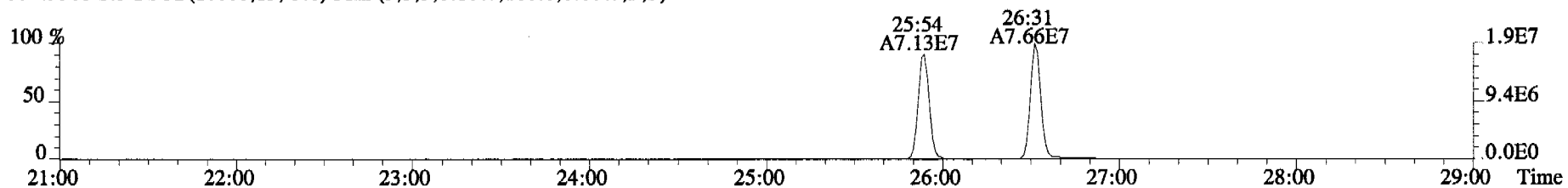
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



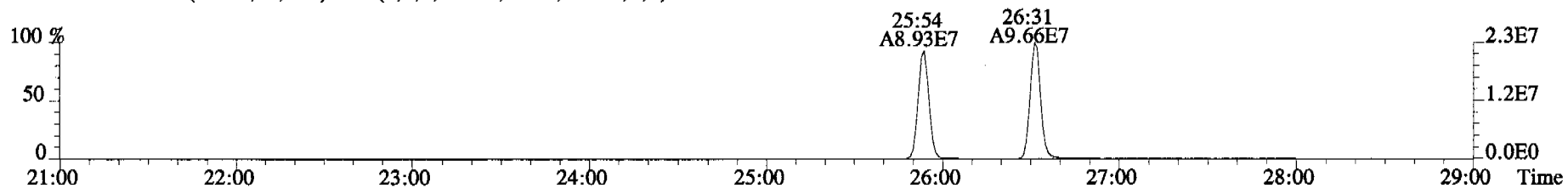
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



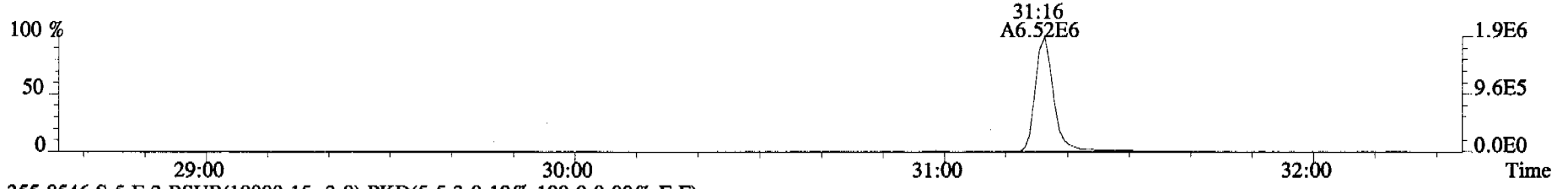
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



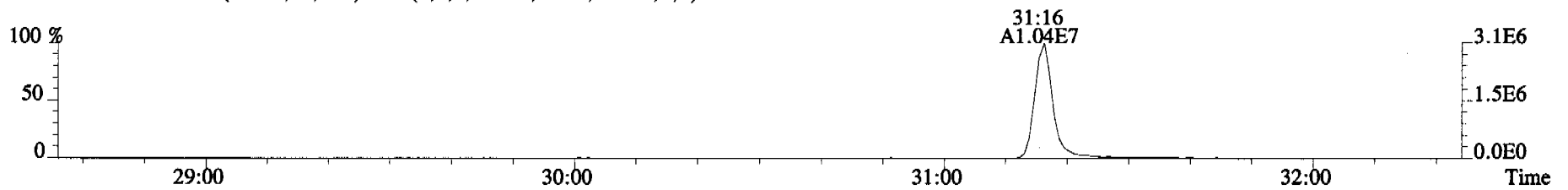
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



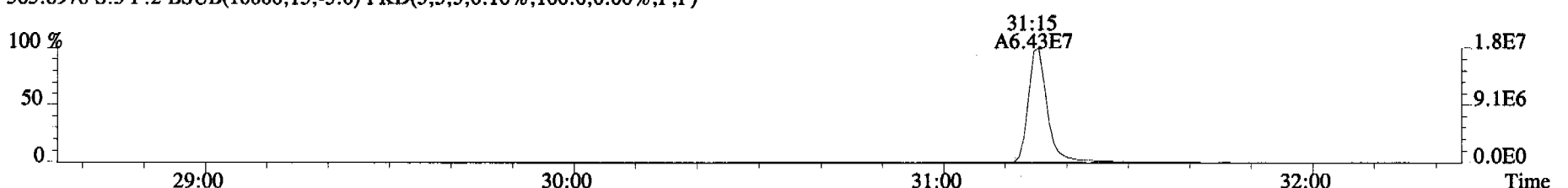
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



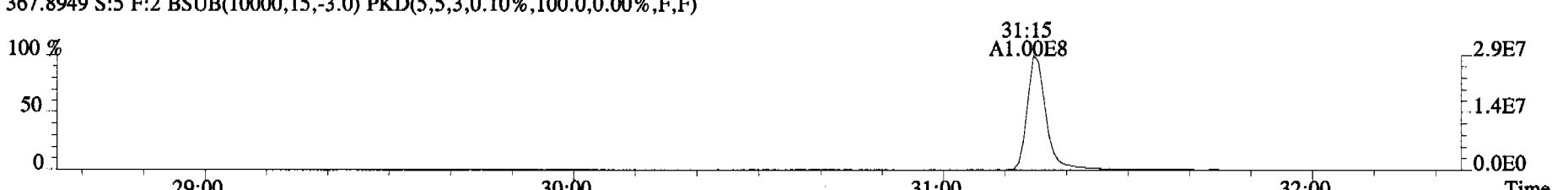
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



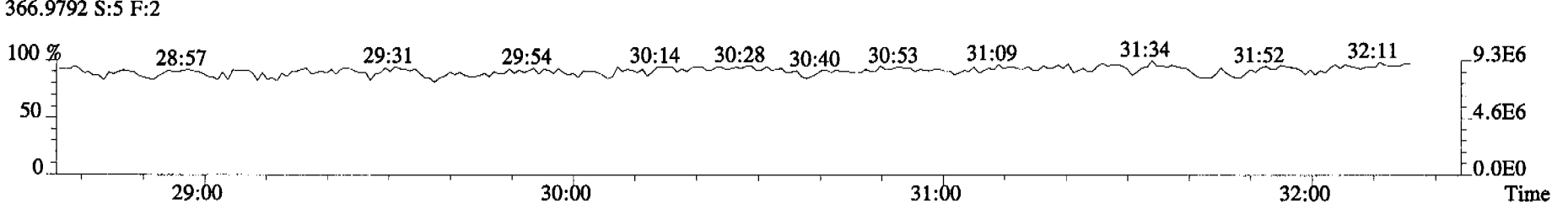
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



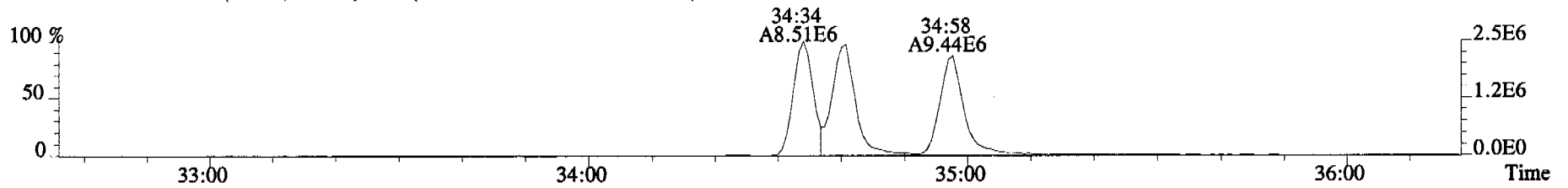
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



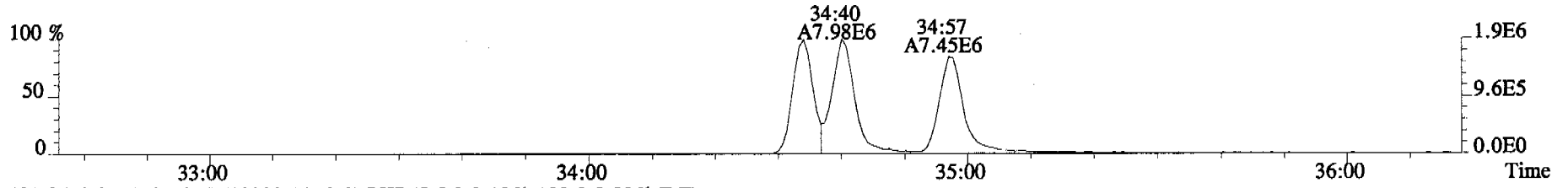
366.9792 S:5 F:2



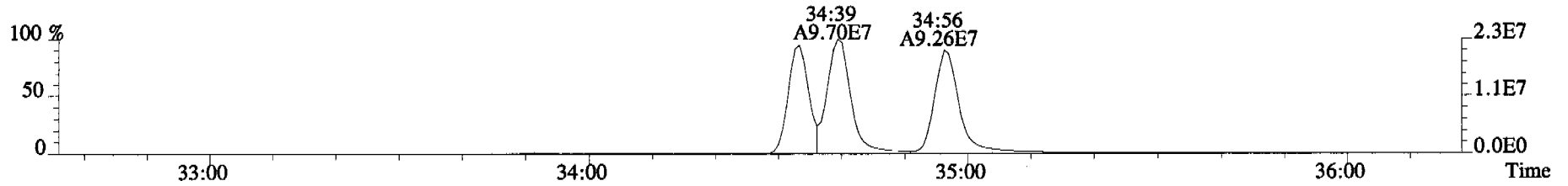
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



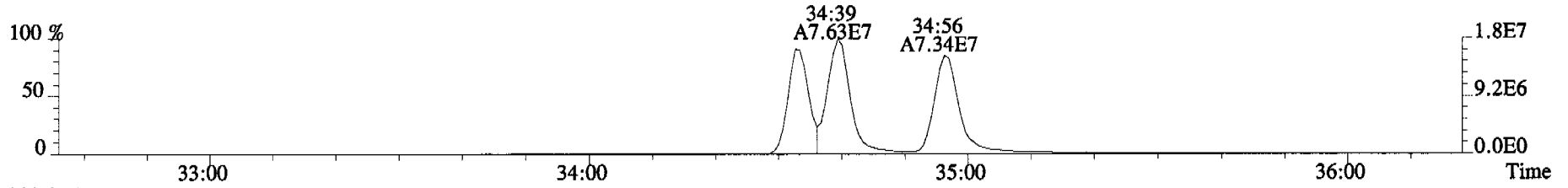
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



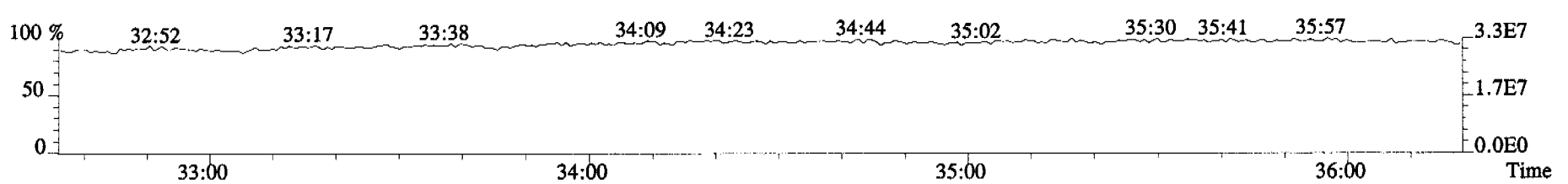
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

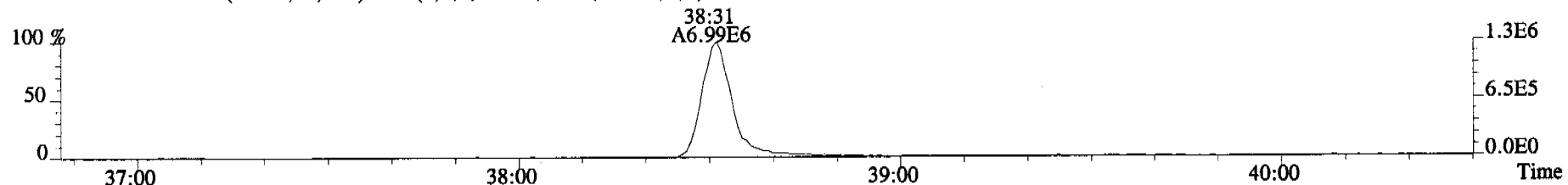


380.9760 S:5 F:3

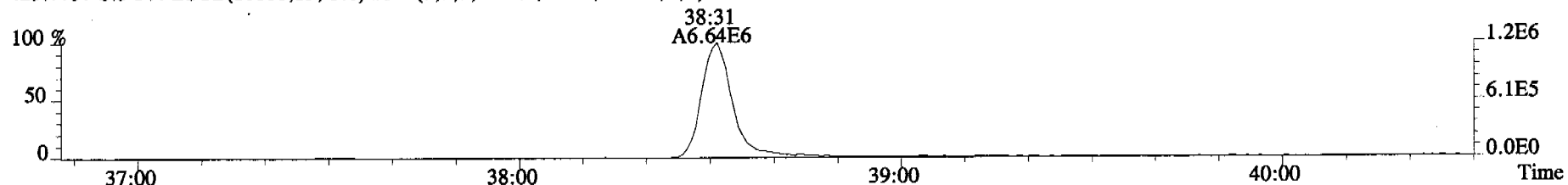




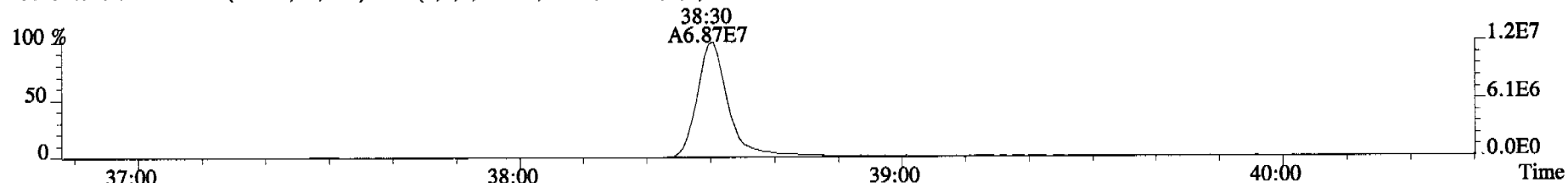
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



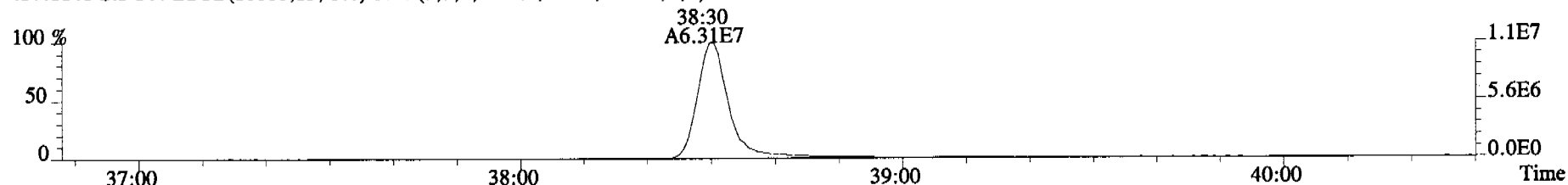
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



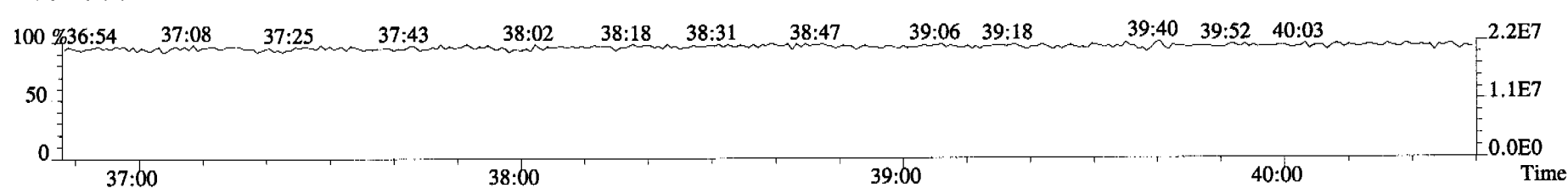
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



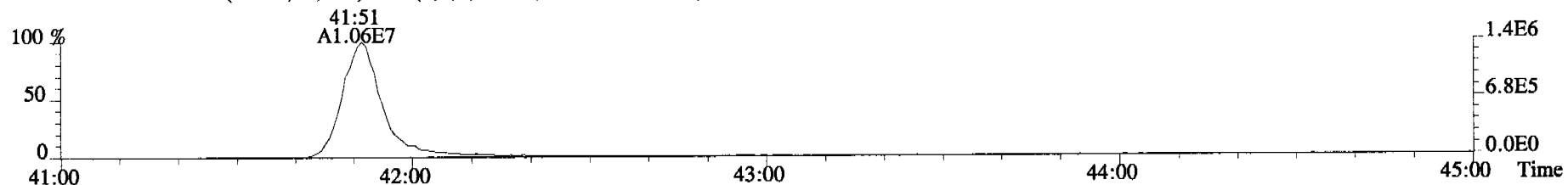
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



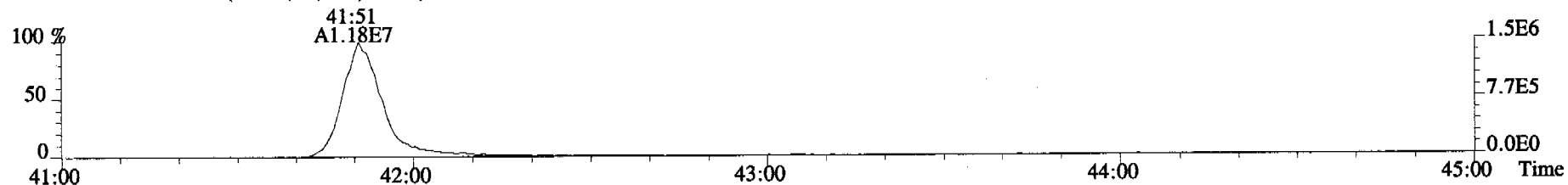
430.9728 S:5 F:4



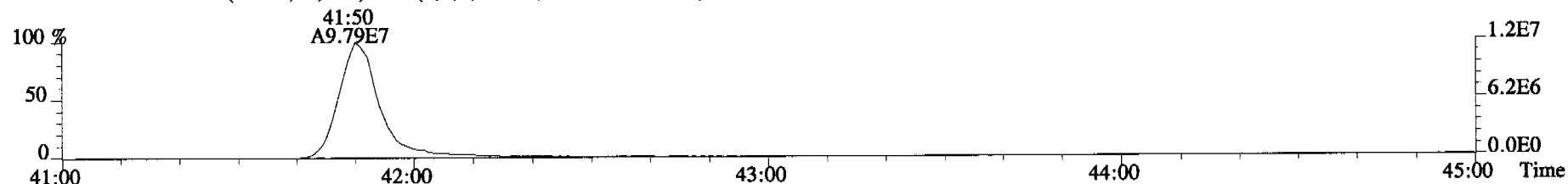
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



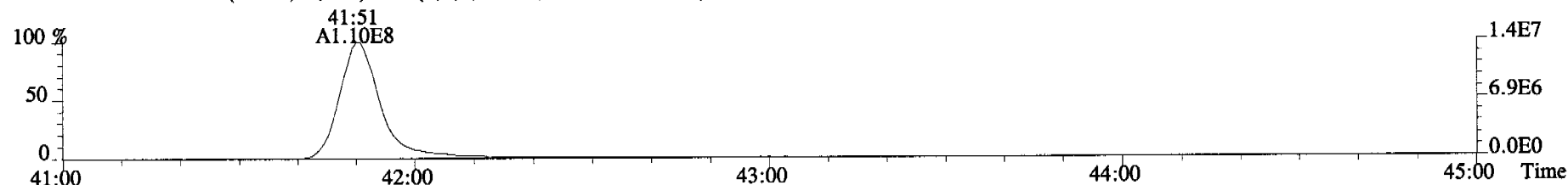
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



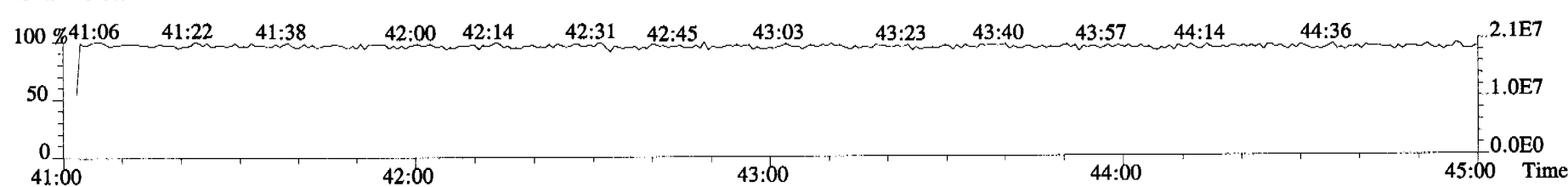
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



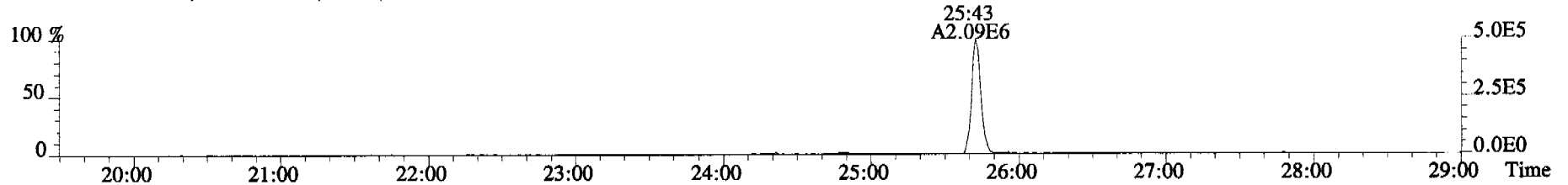
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



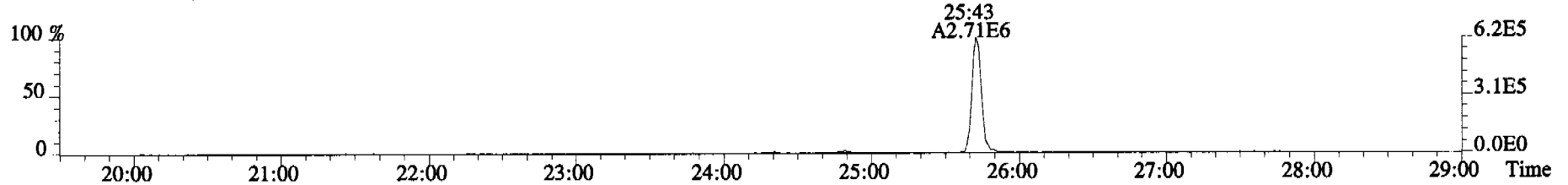
454.9728 S:5 F:5



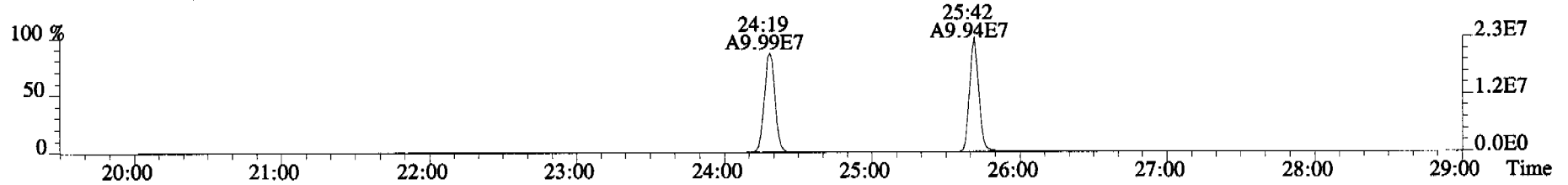
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



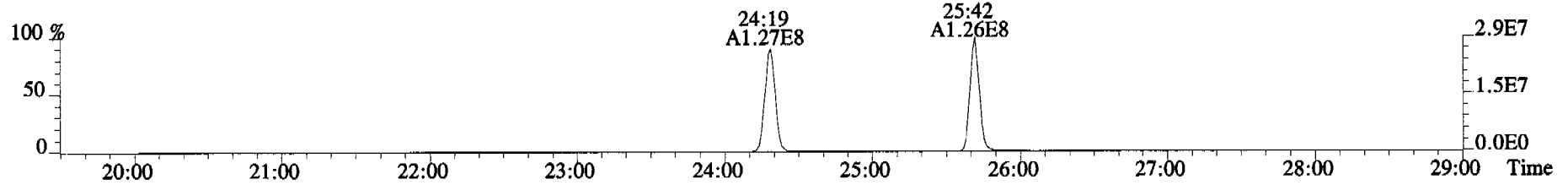
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



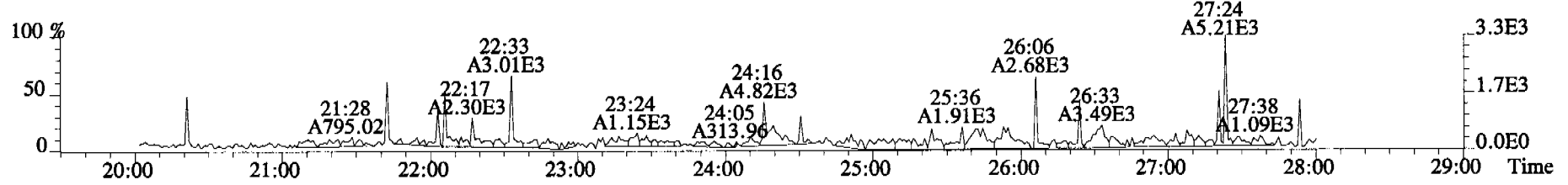
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



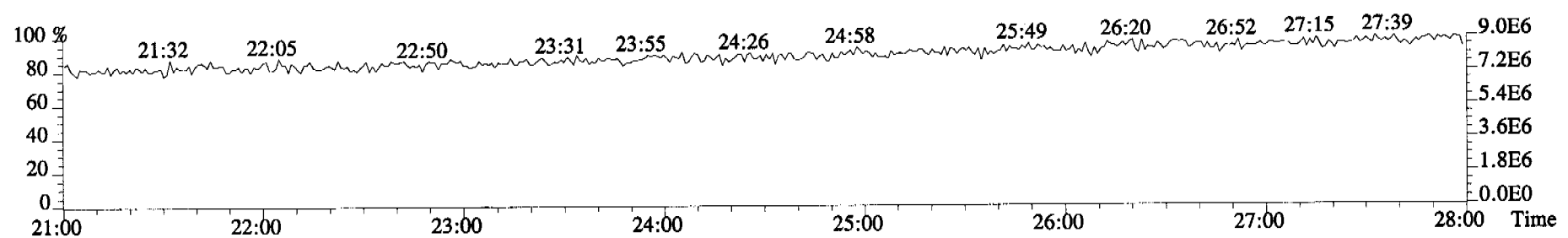
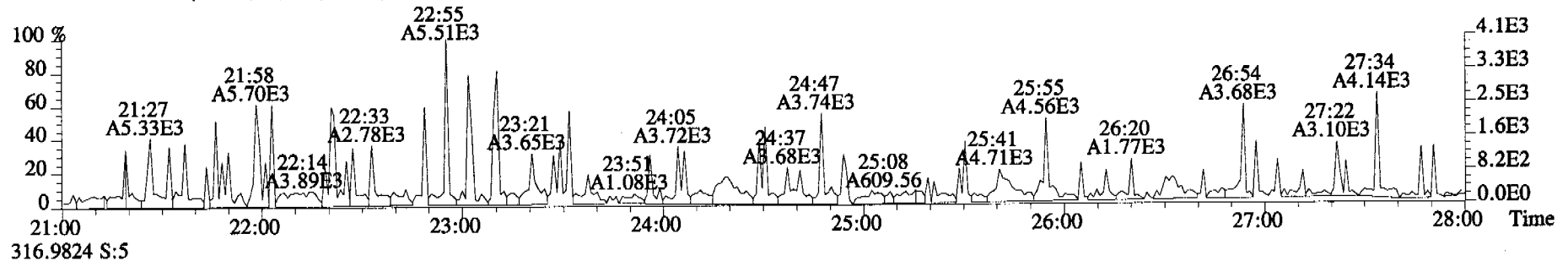
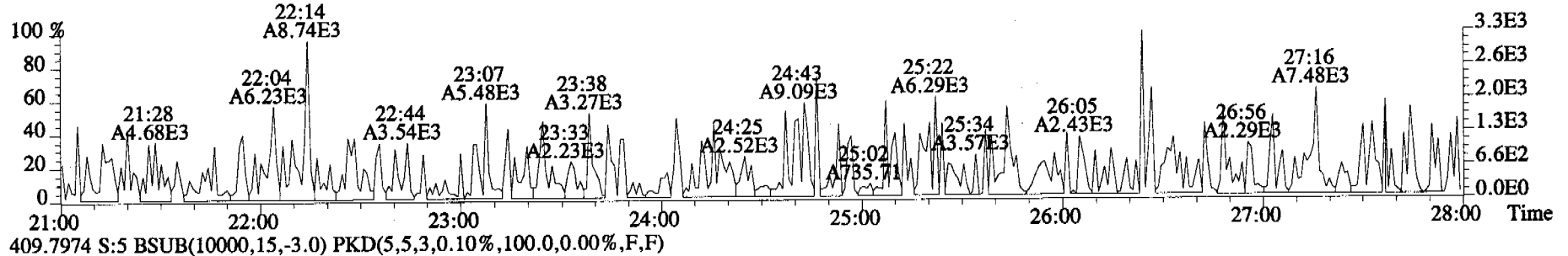
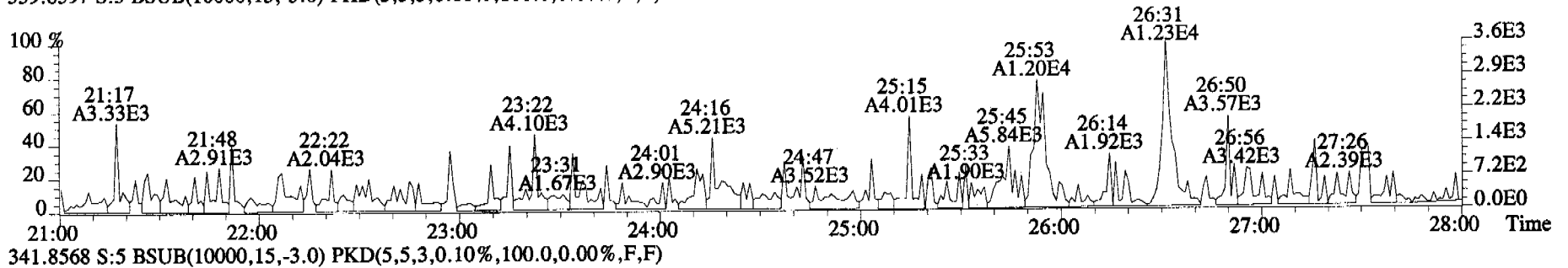
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



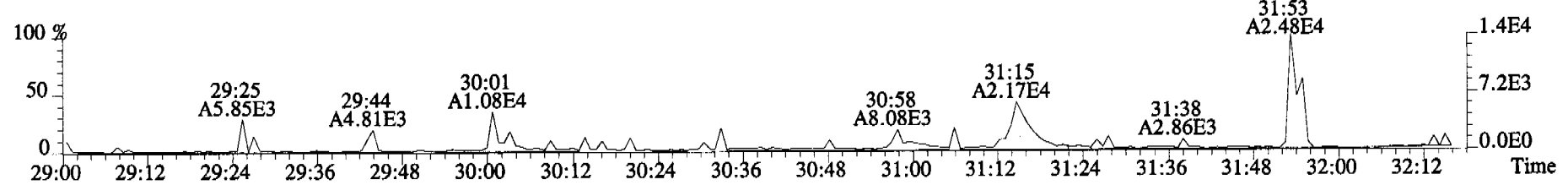
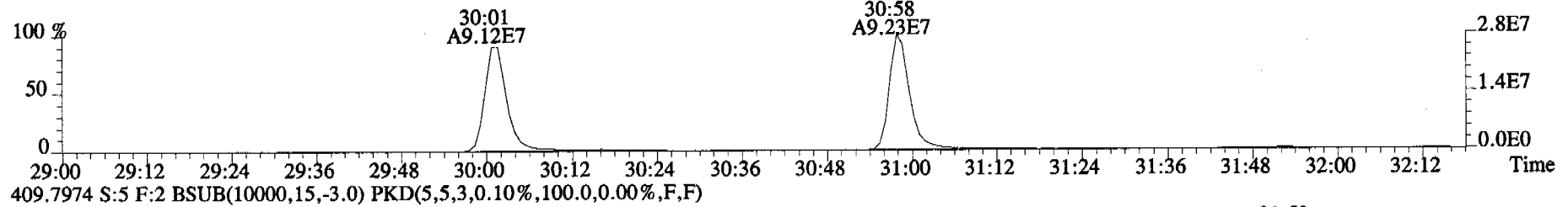
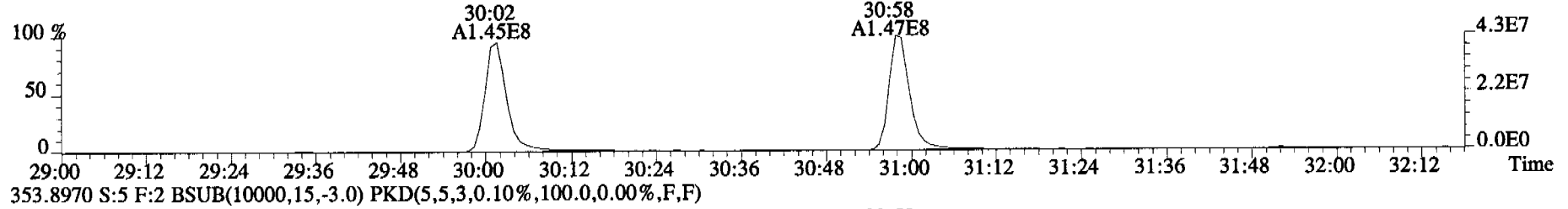
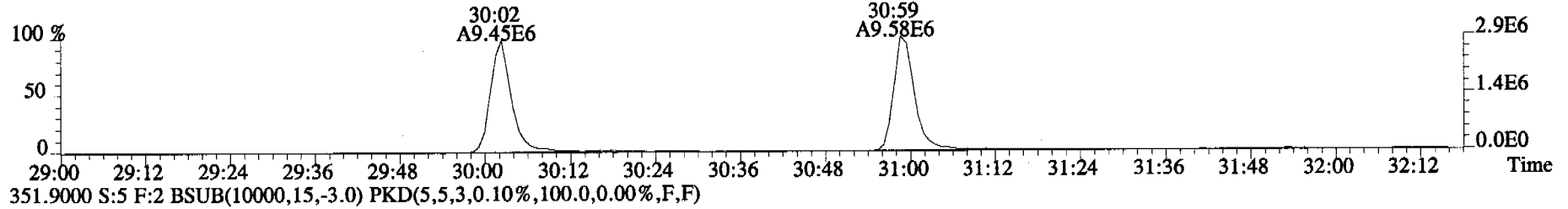
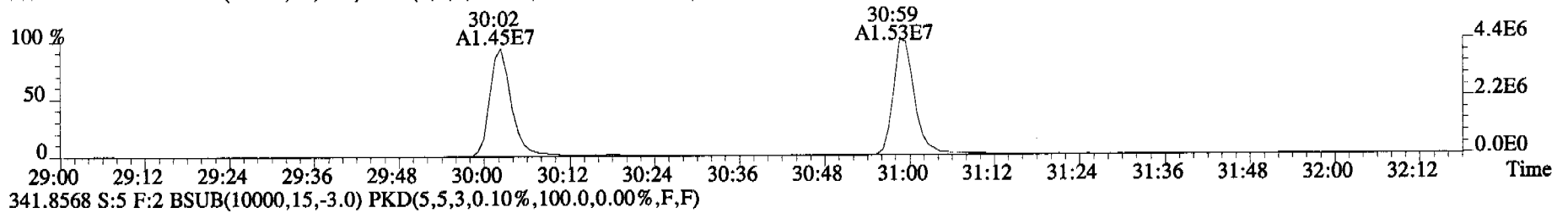
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



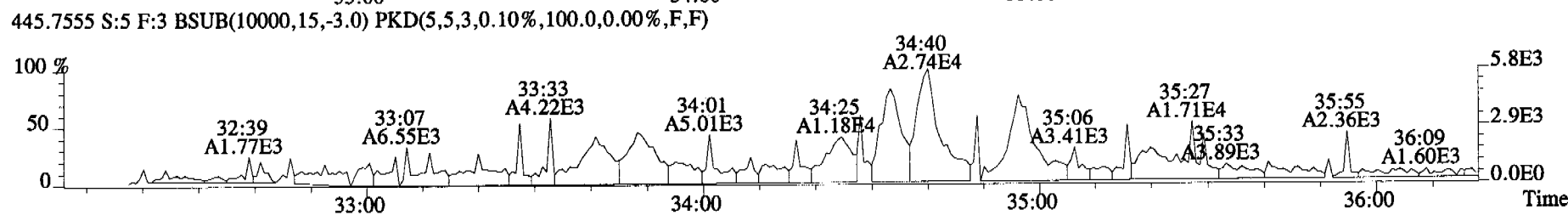
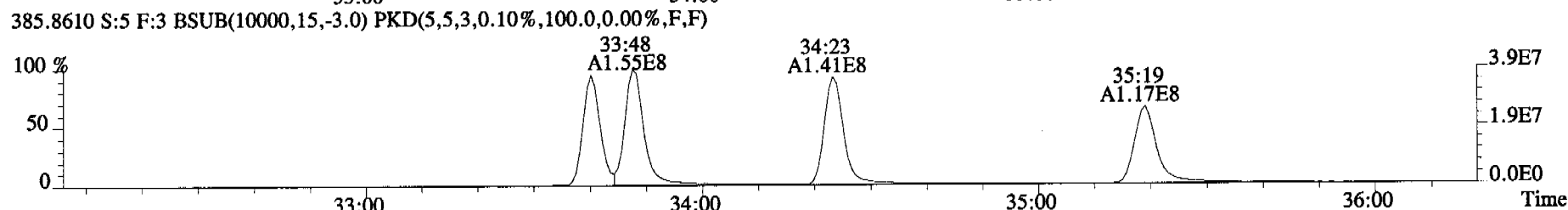
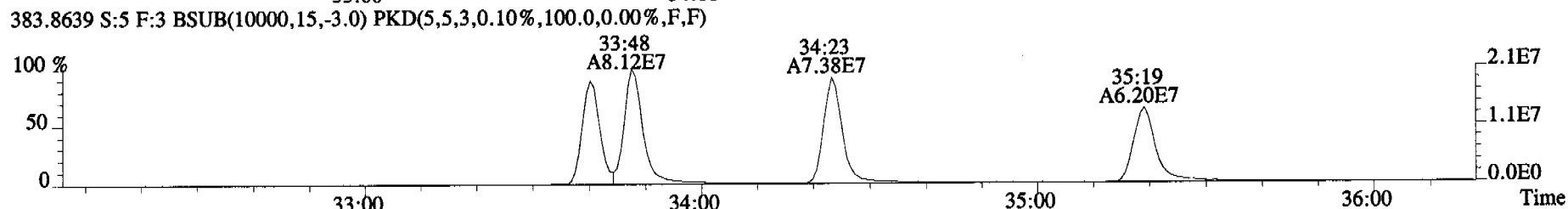
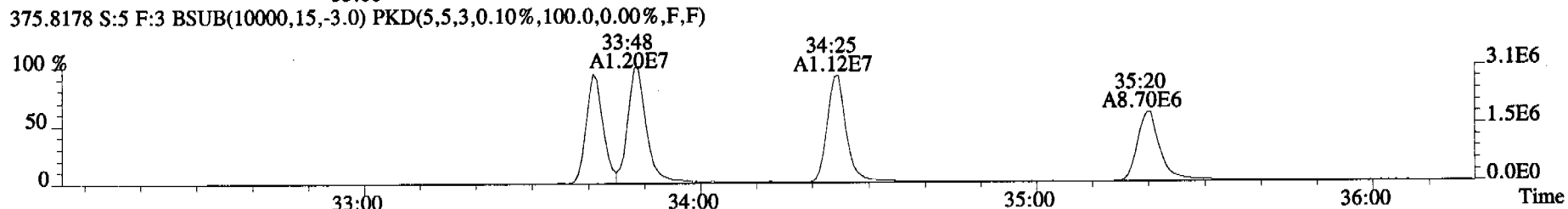
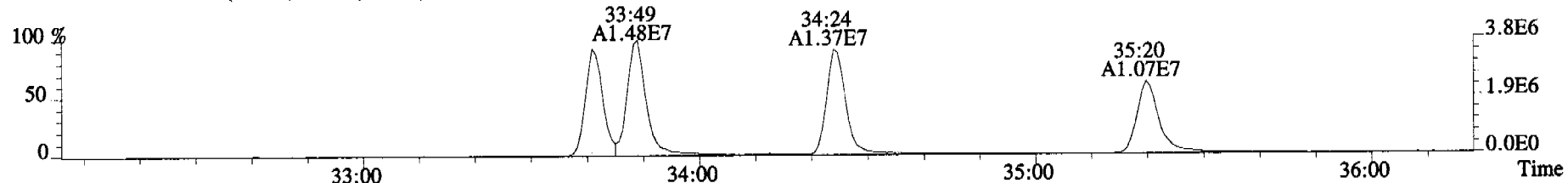
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



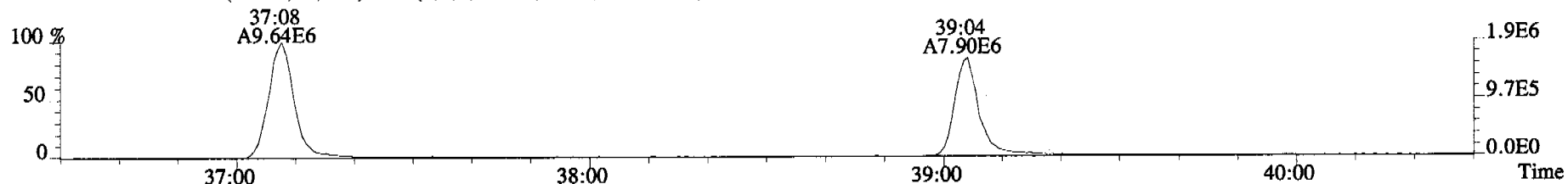
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



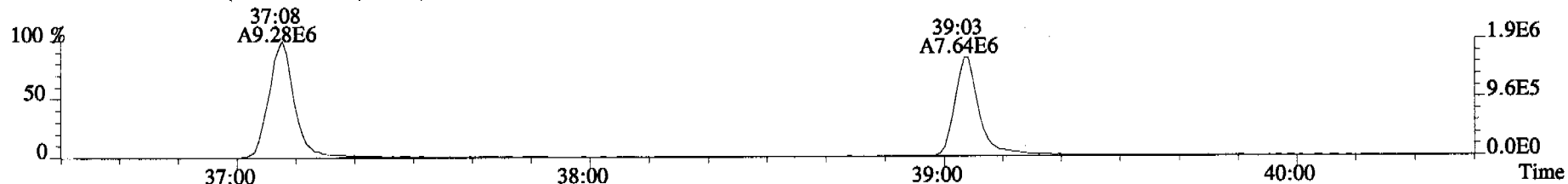
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



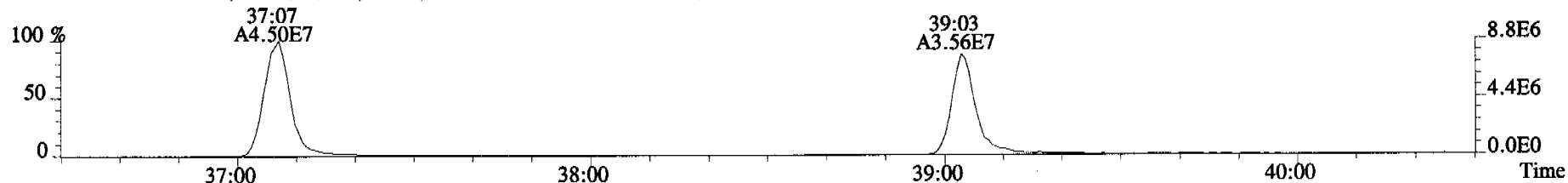
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



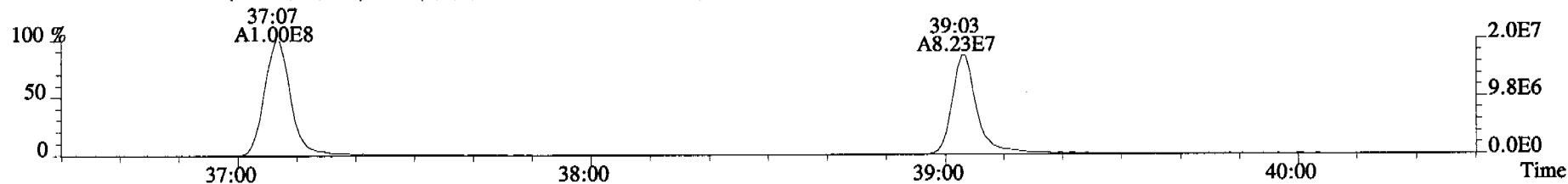
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



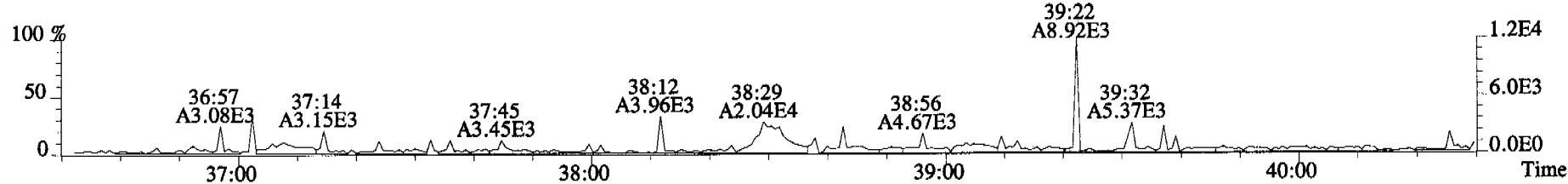
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



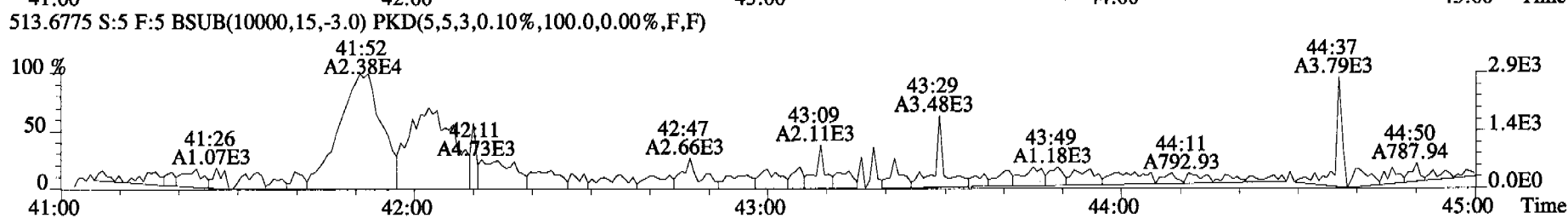
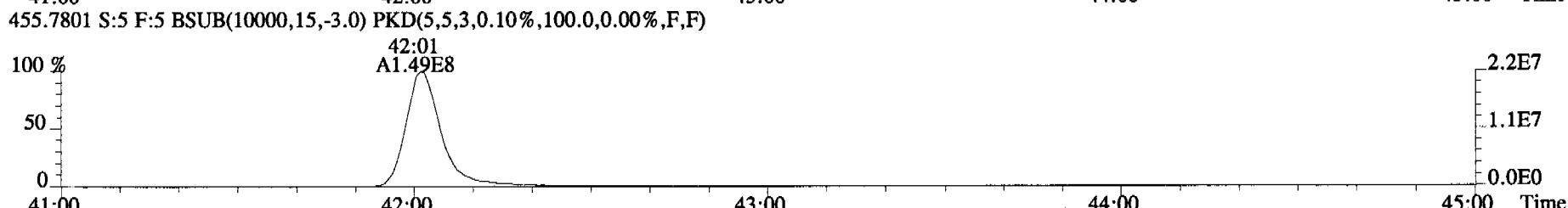
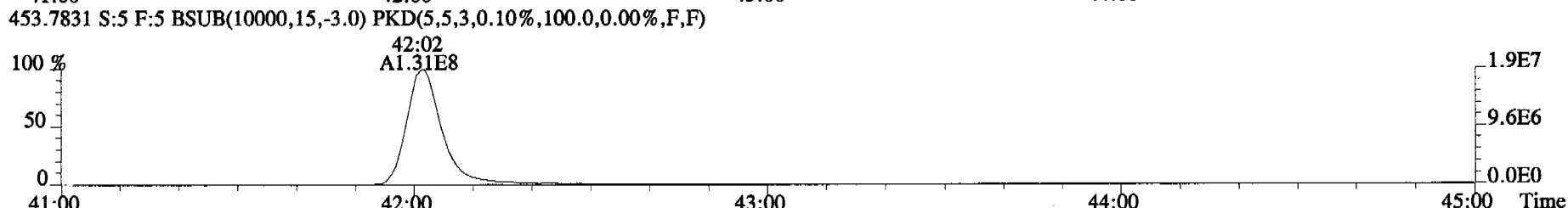
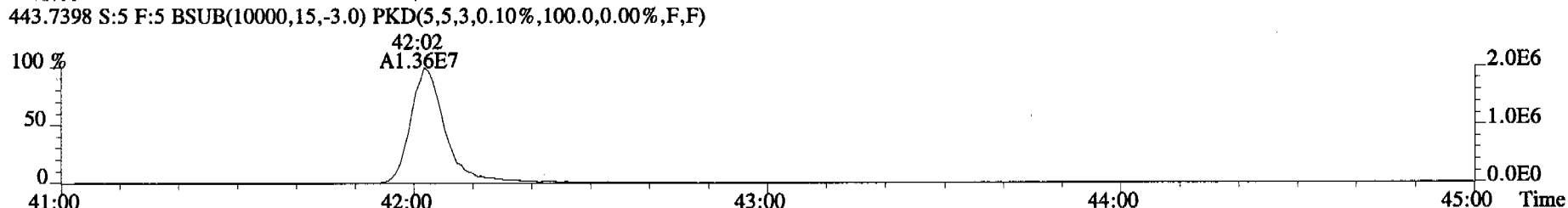
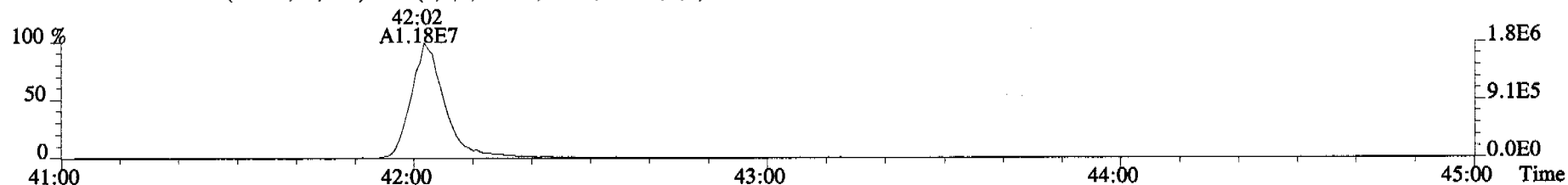
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

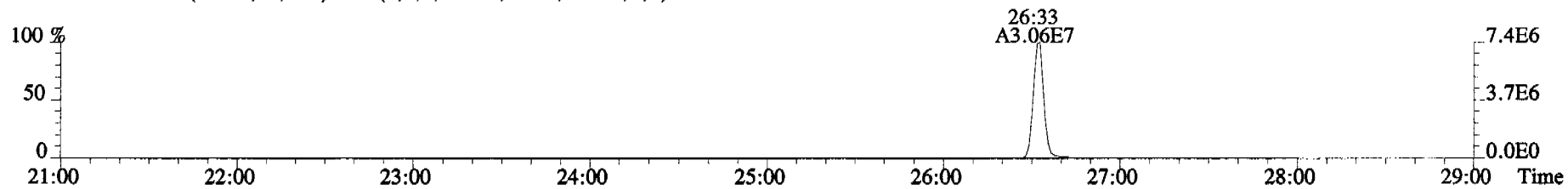


File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

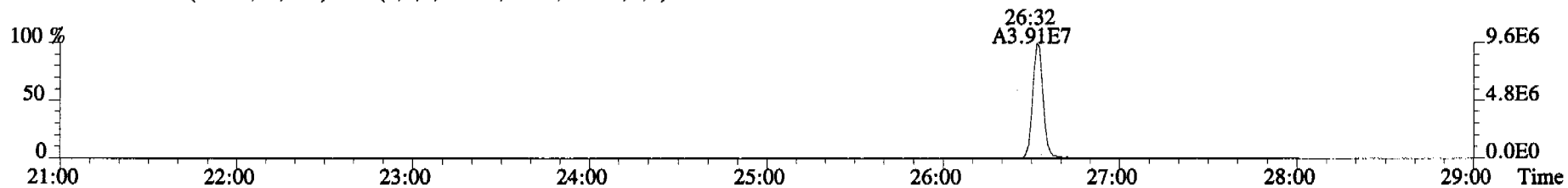




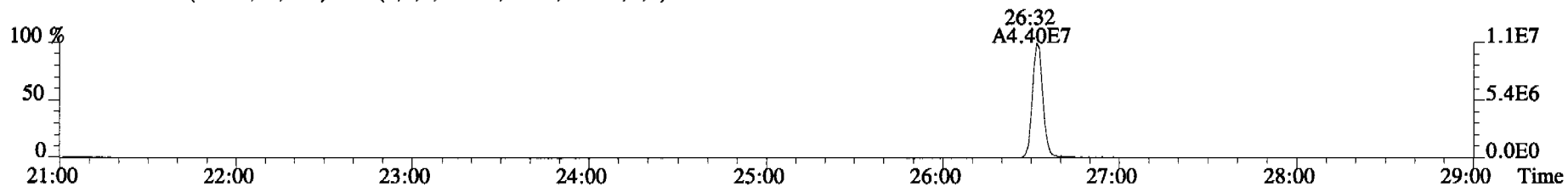
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



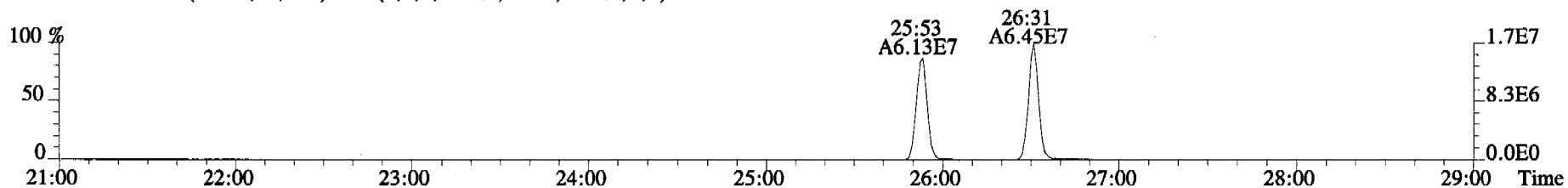
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



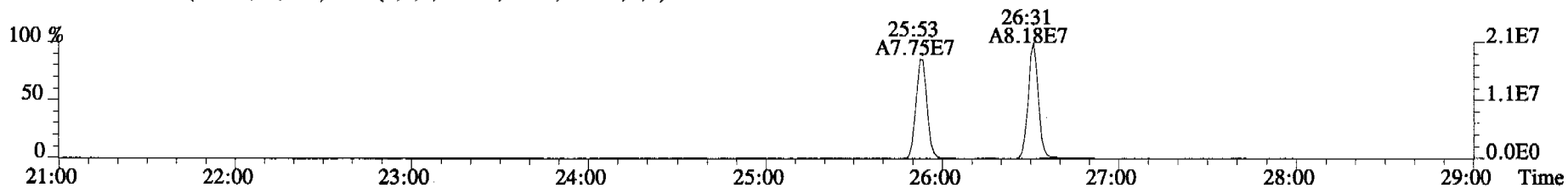
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



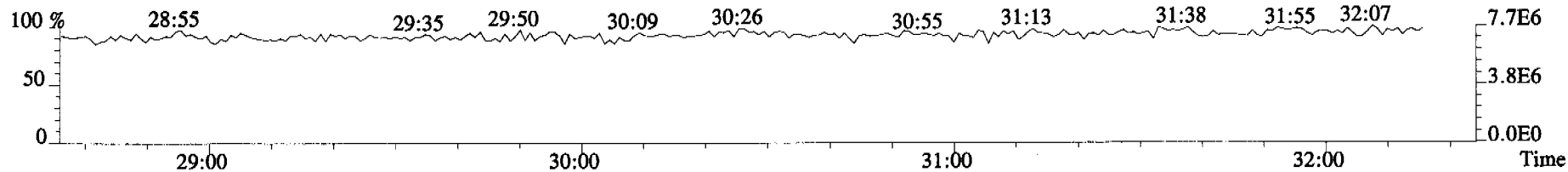
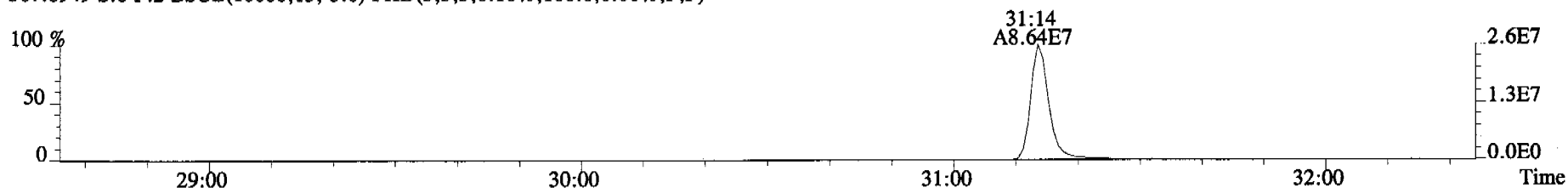
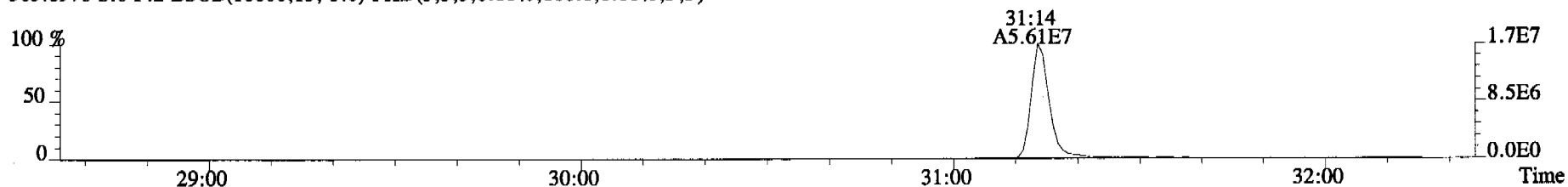
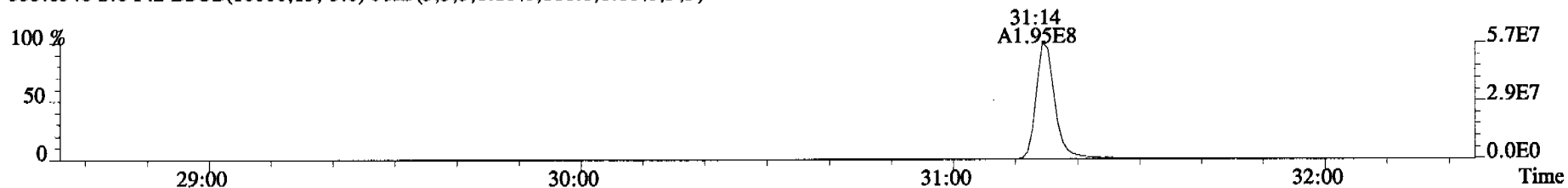
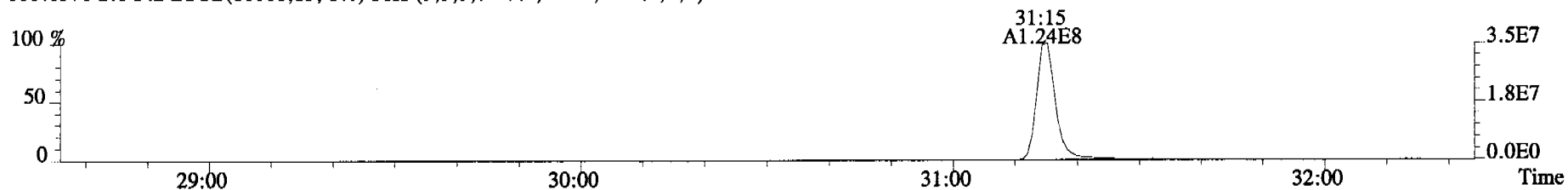
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



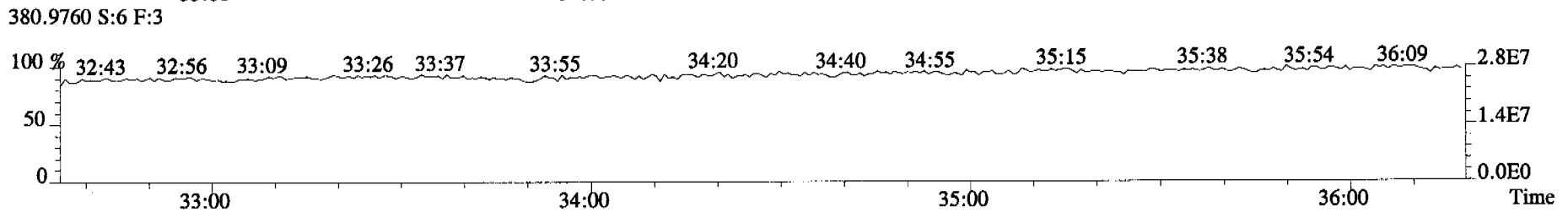
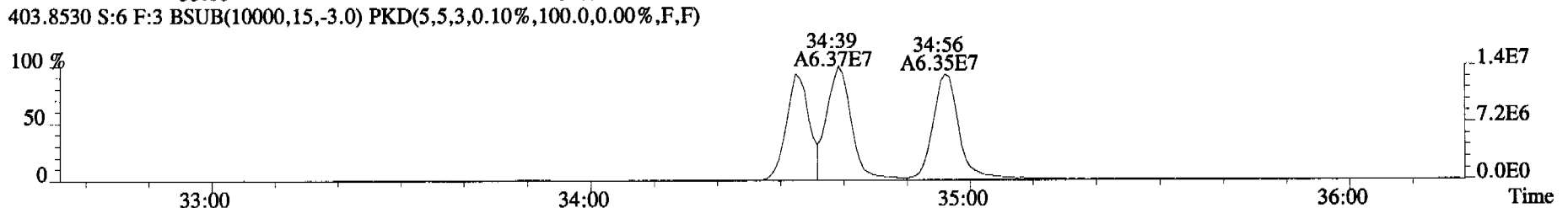
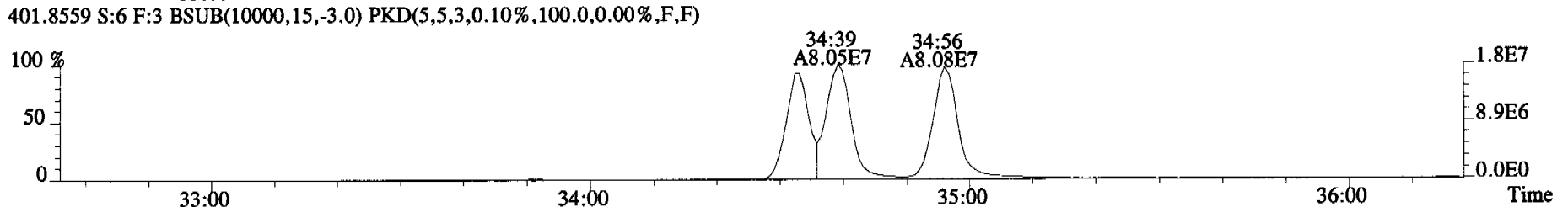
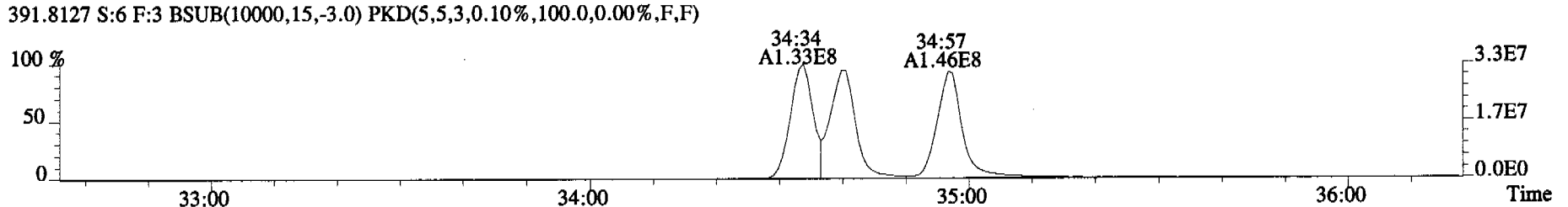
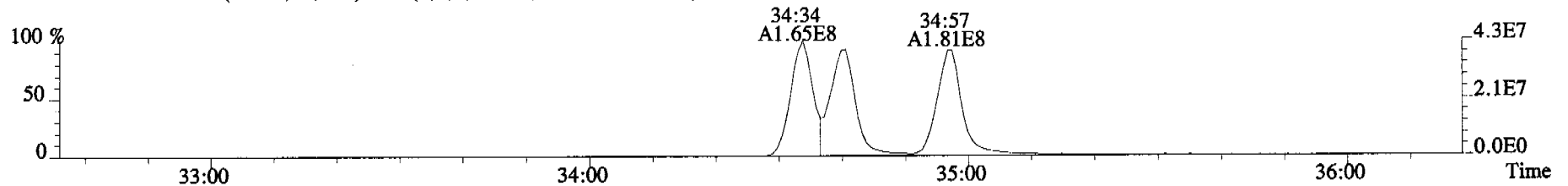
333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



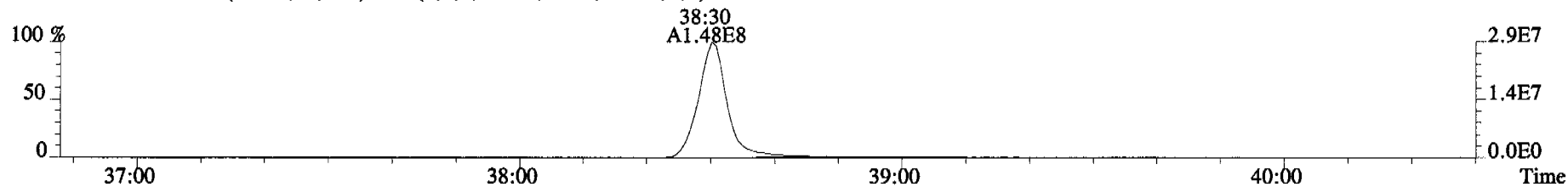
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



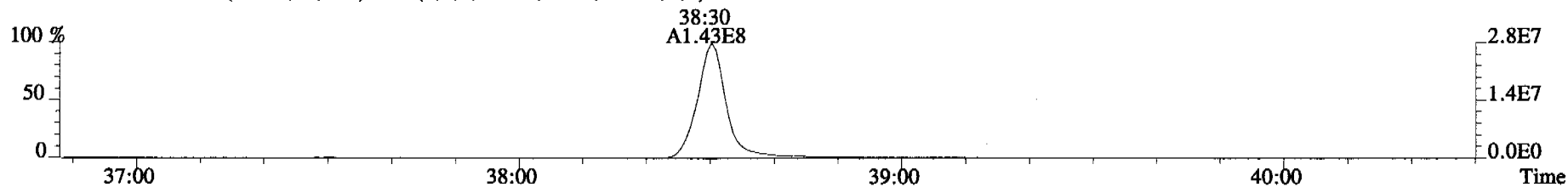
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



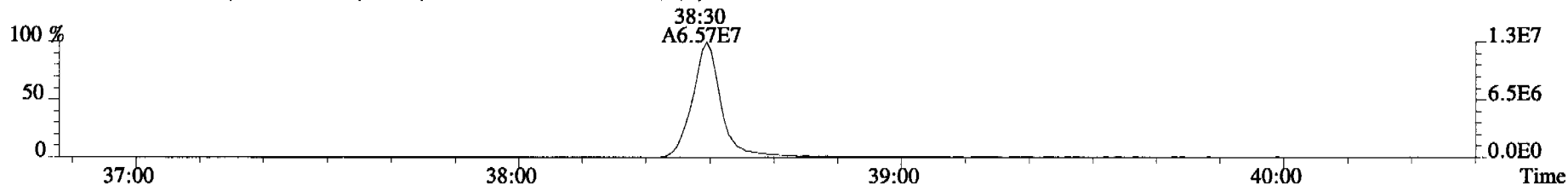
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



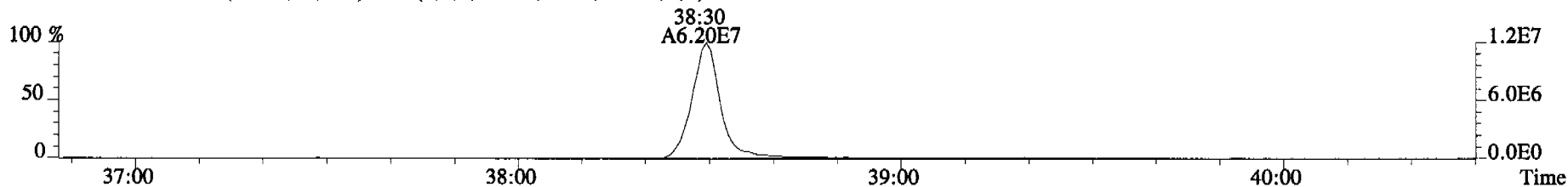
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



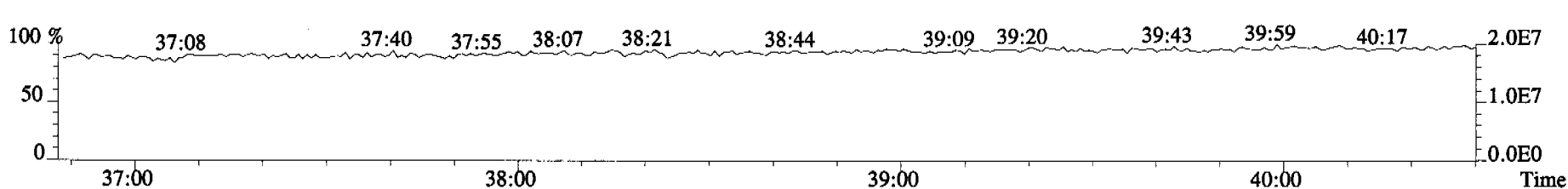
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



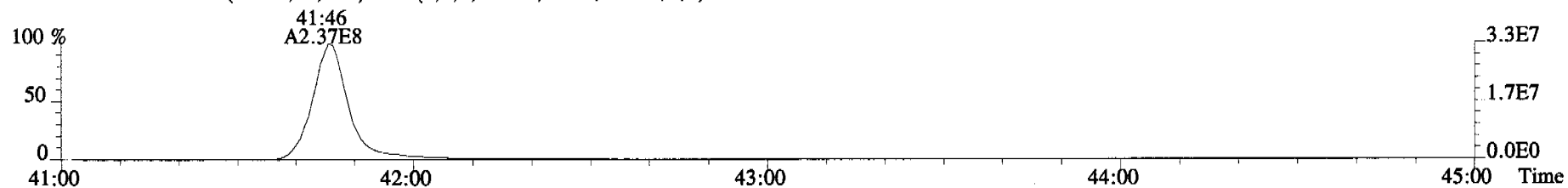
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



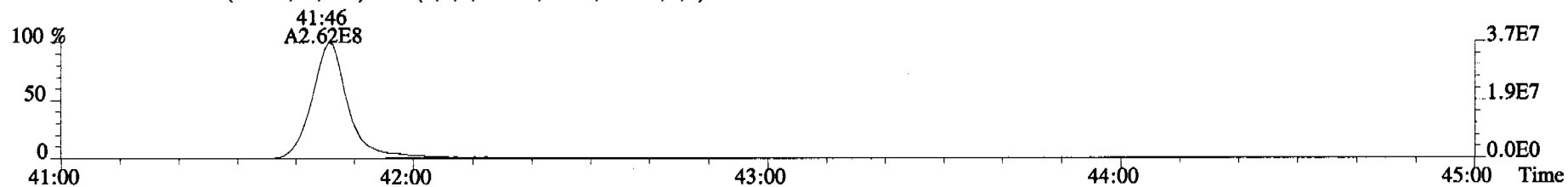
430.9728 S:6 F:4



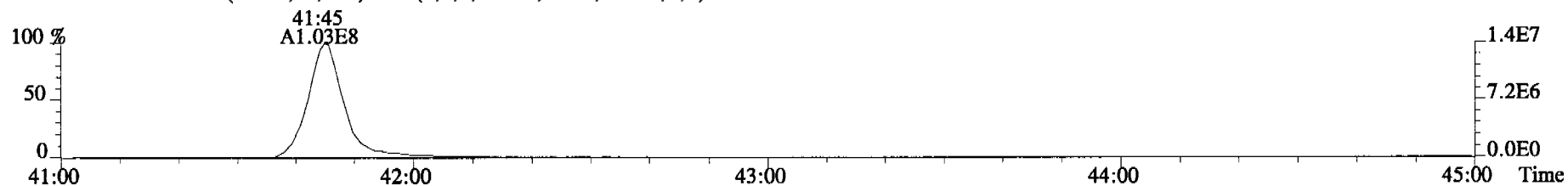
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Aita Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



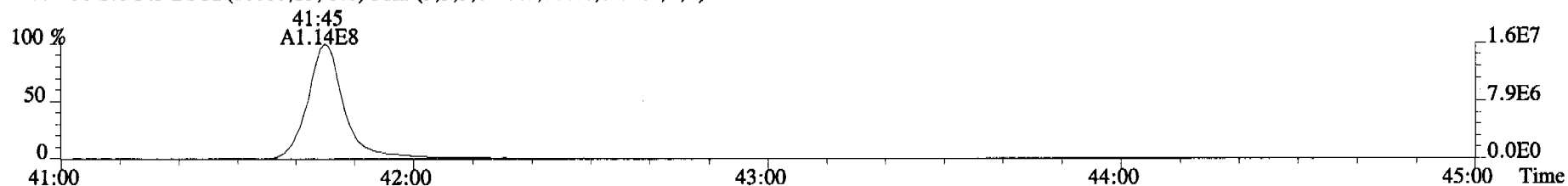
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



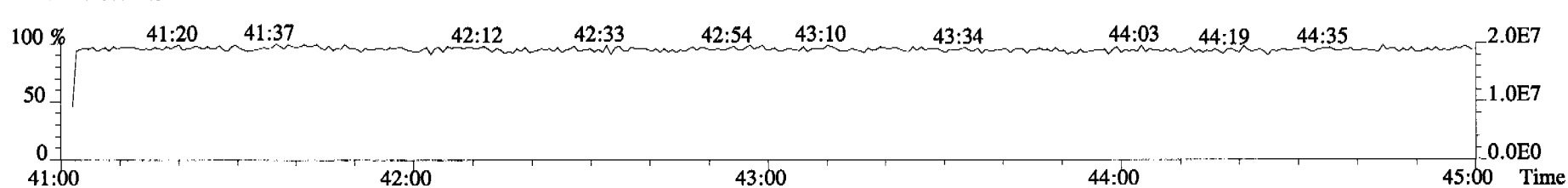
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



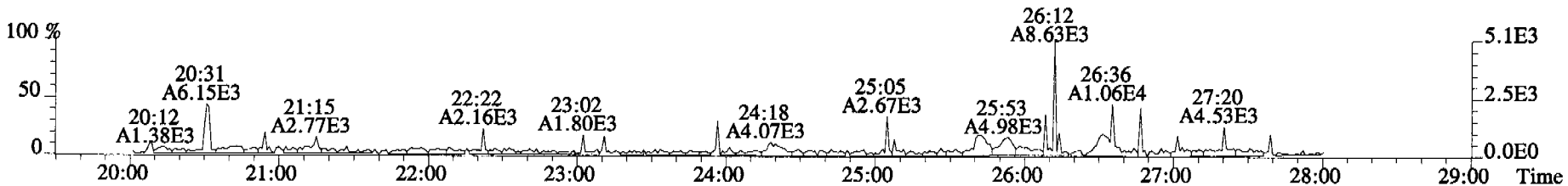
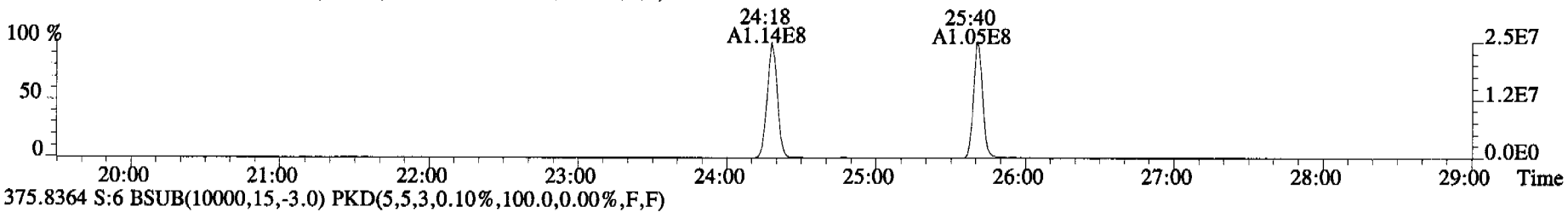
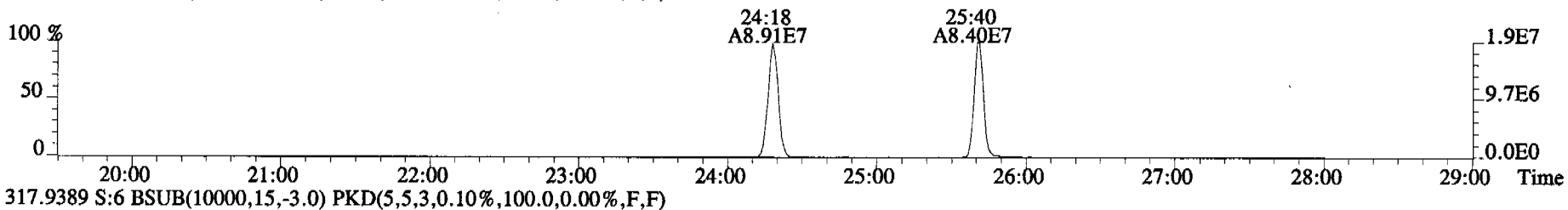
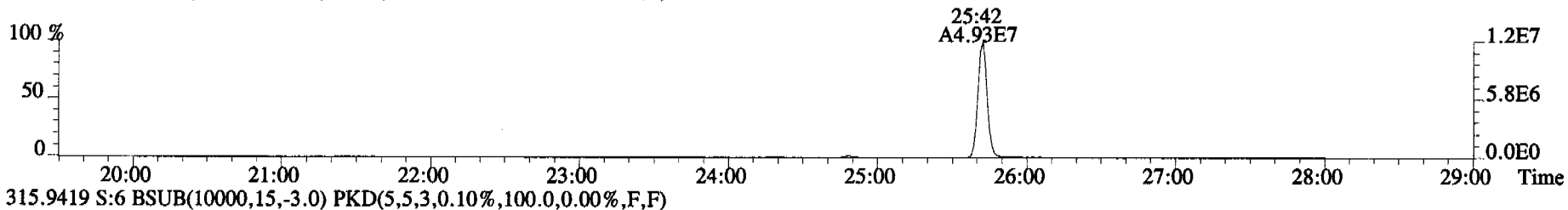
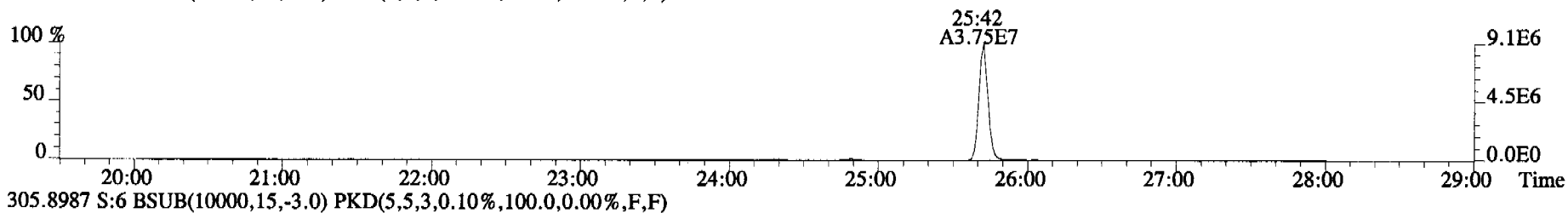
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



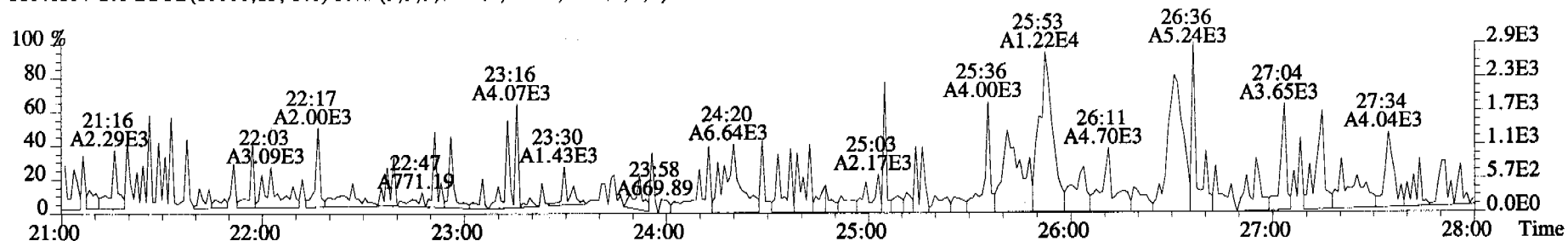
454.9728 S:6 F:5



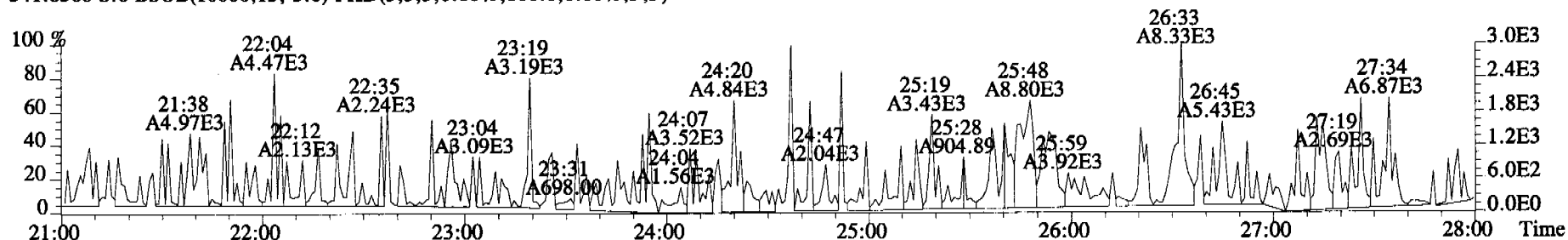
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



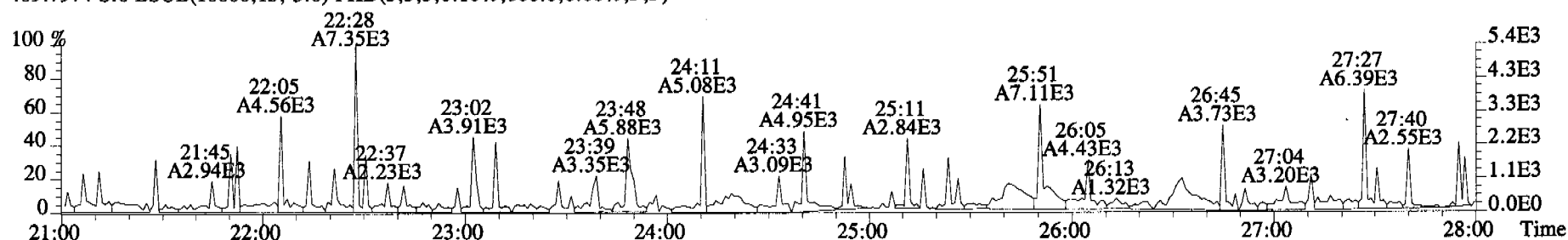
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



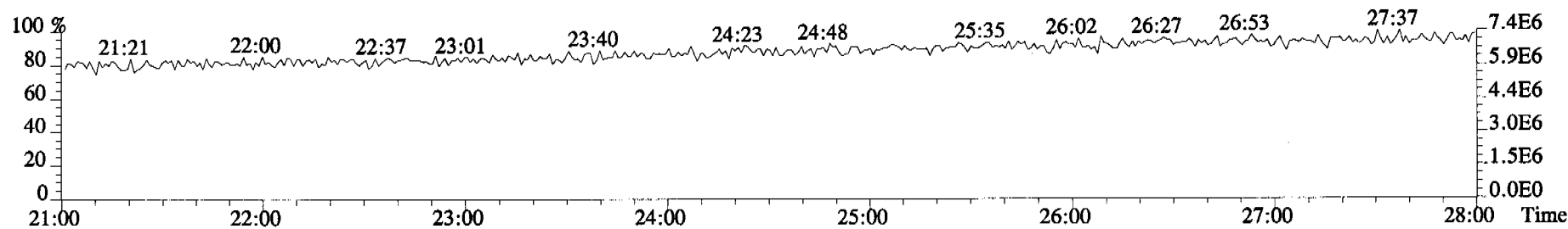
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



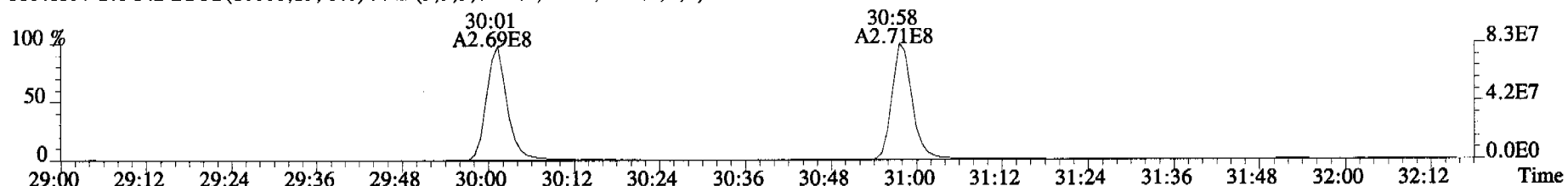
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



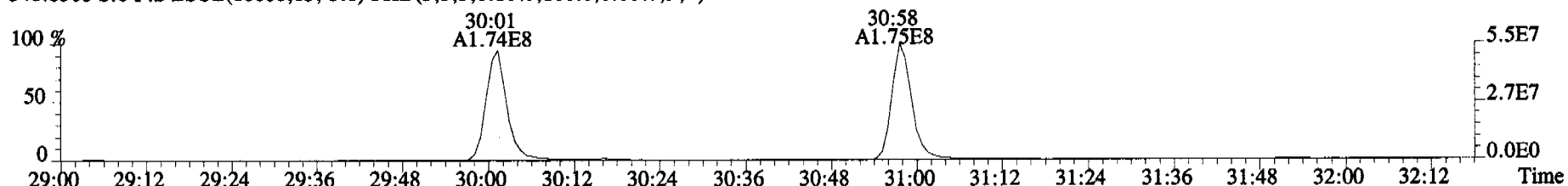
316.9824 S:6



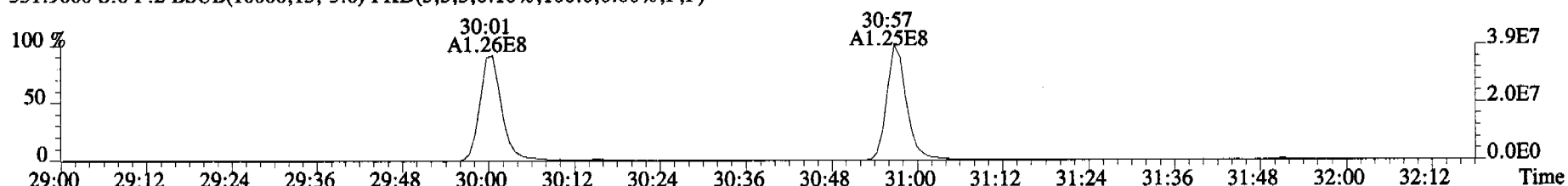
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



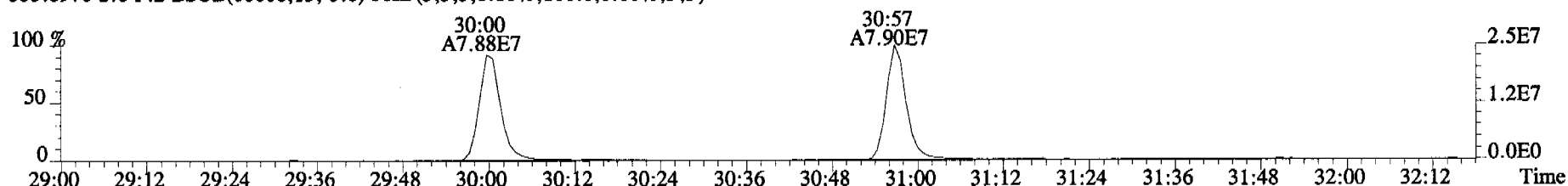
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



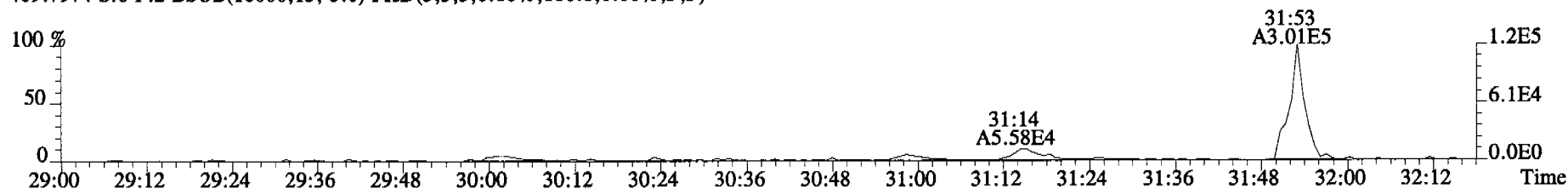
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

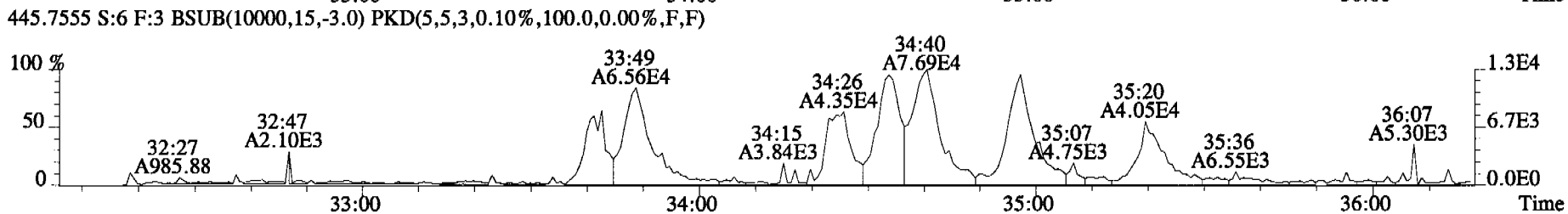
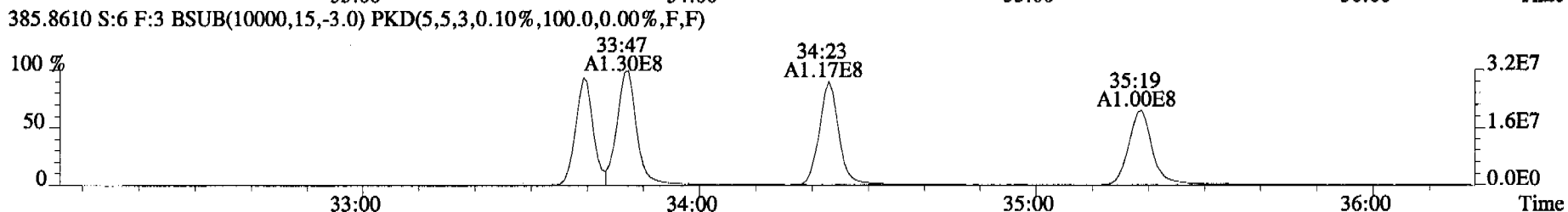
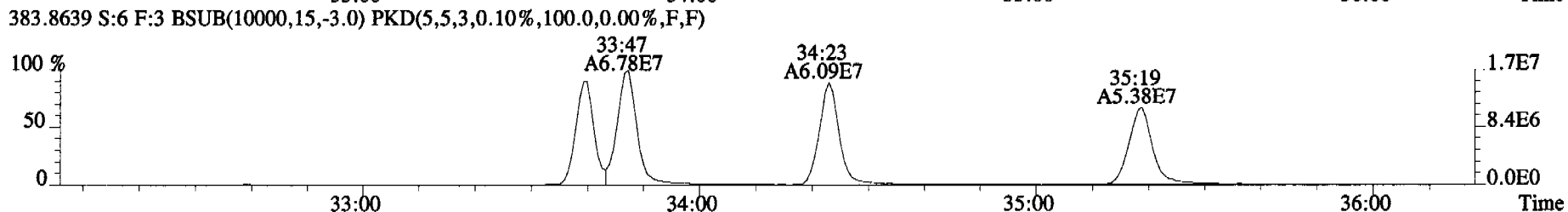
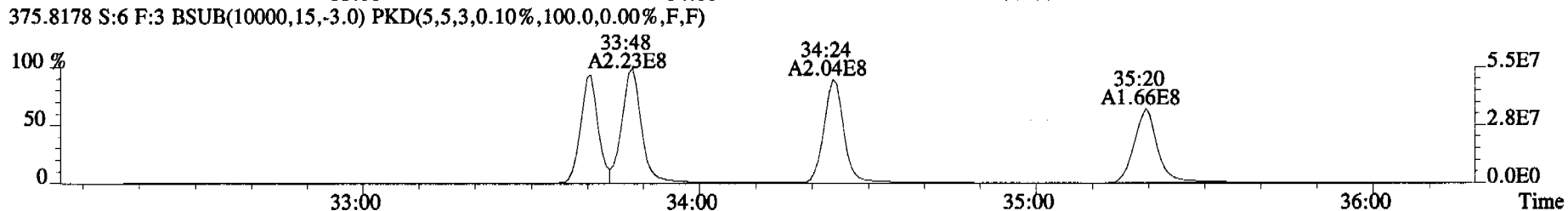
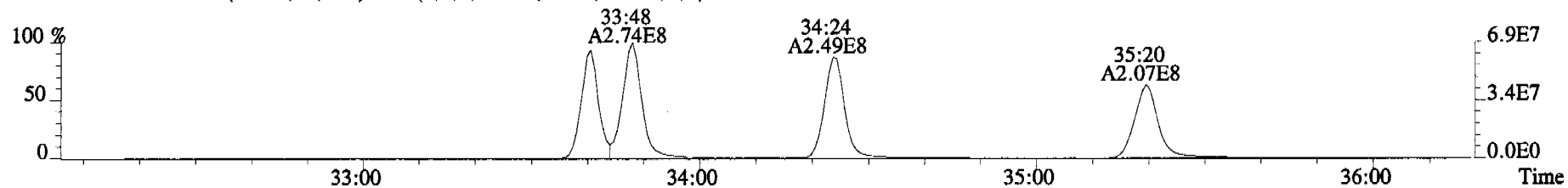


409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

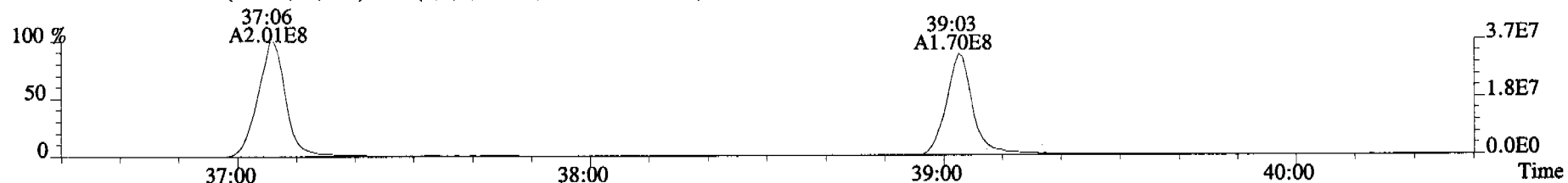




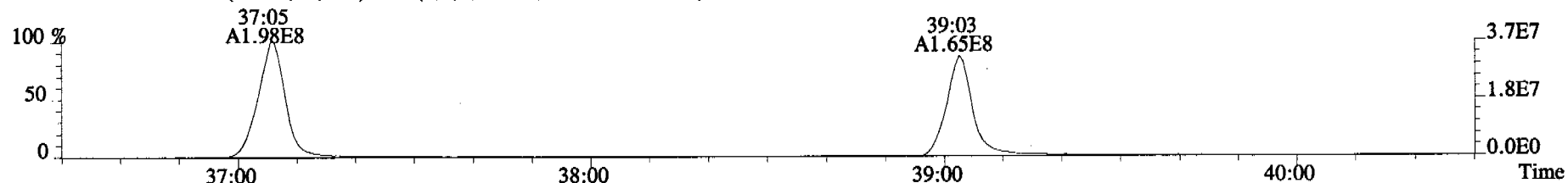
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



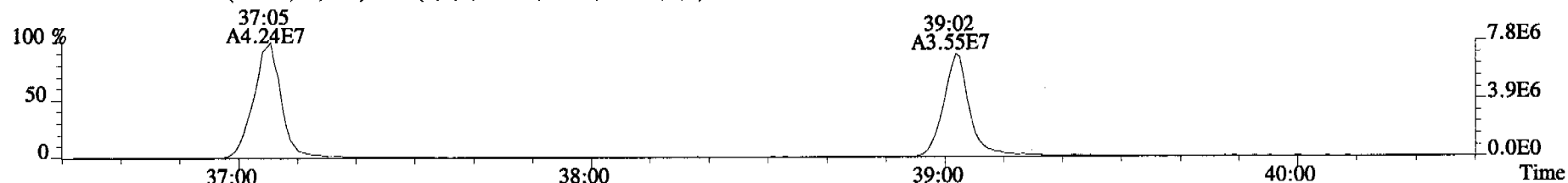
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



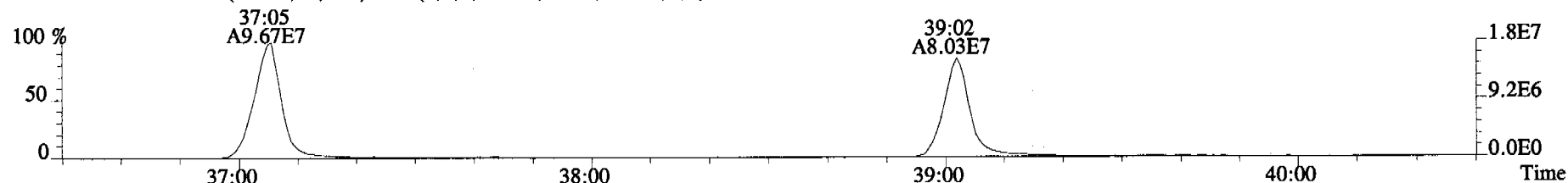
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



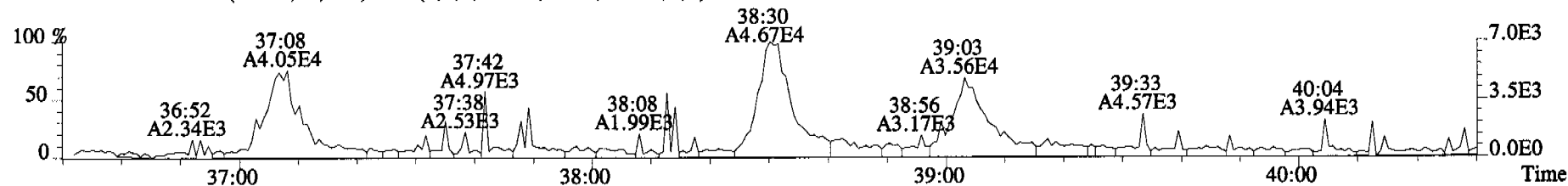
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



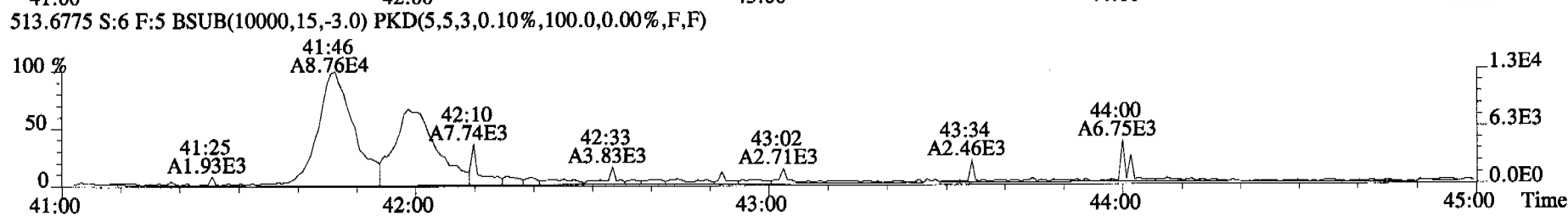
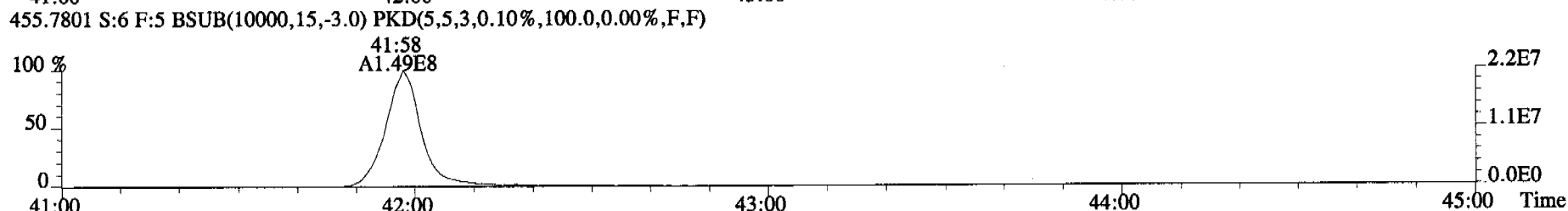
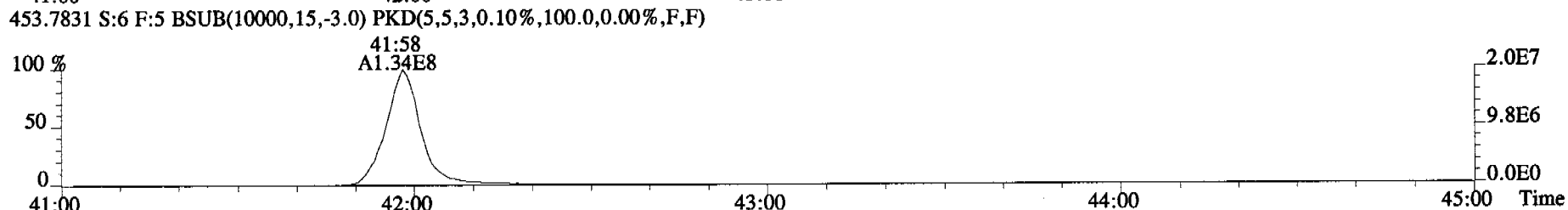
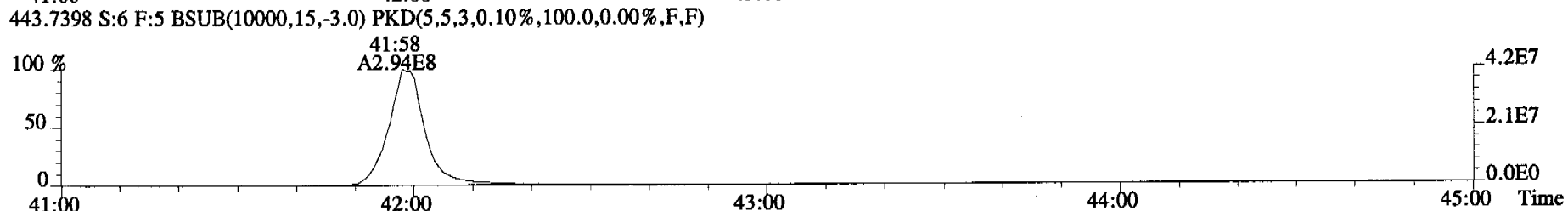
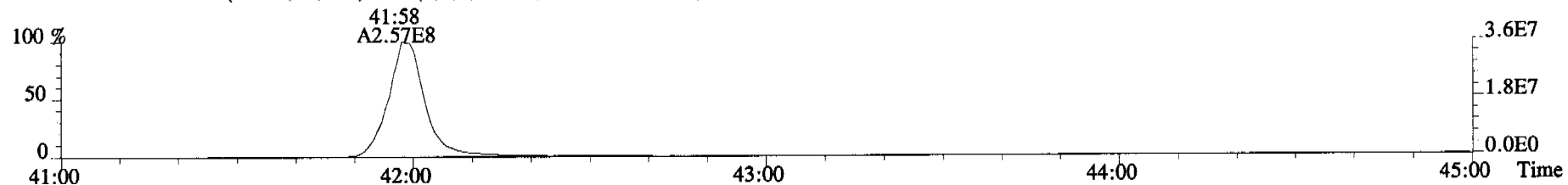
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



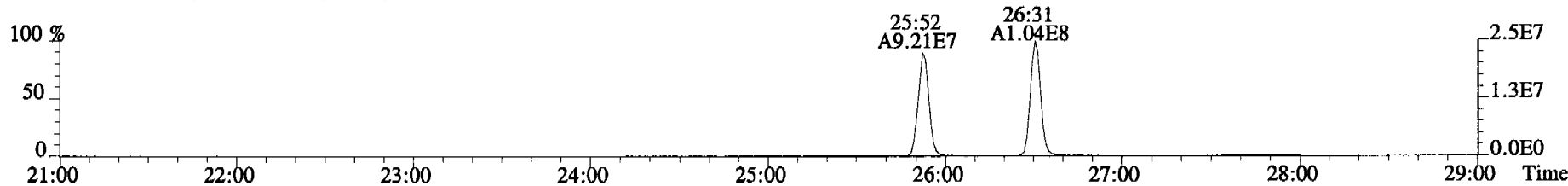
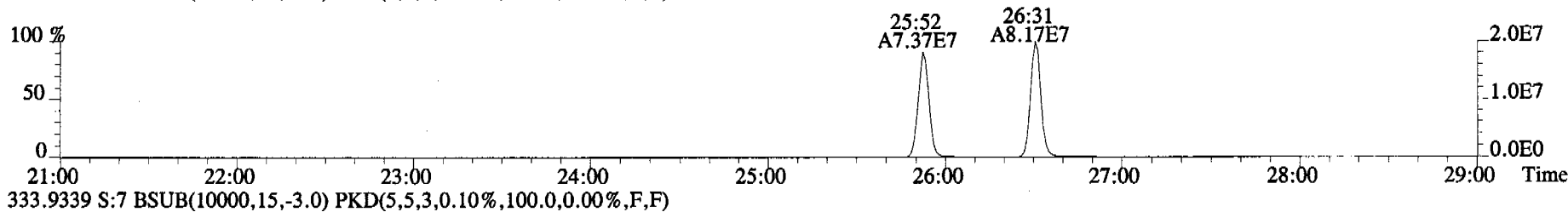
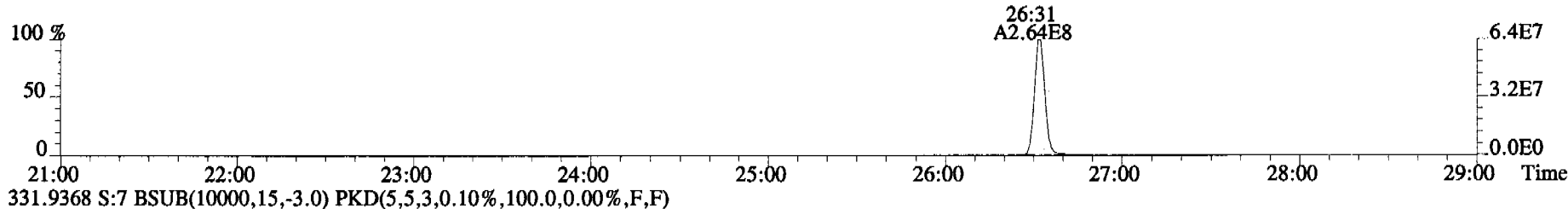
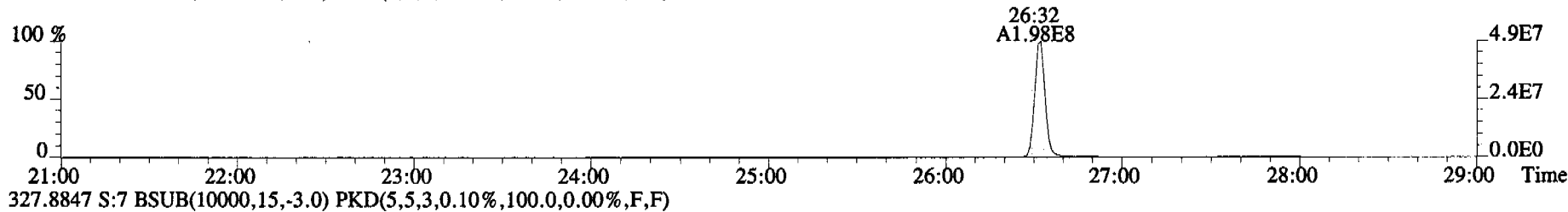
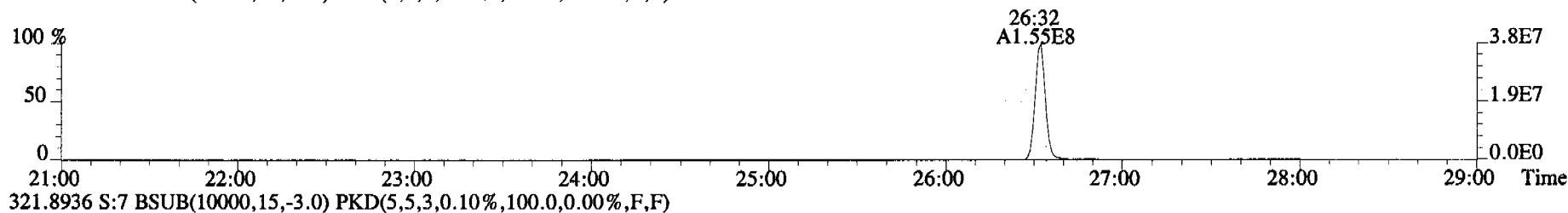
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



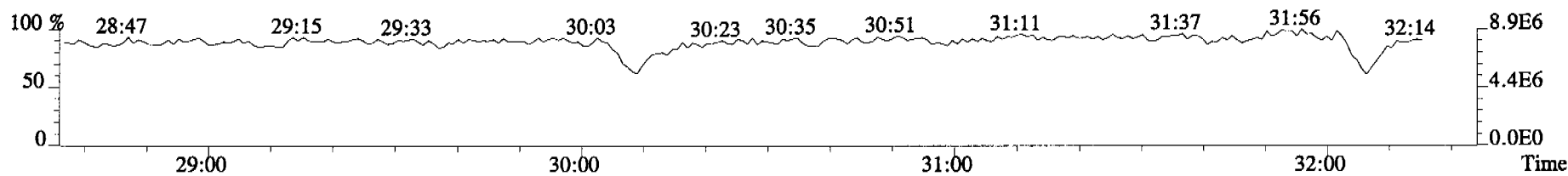
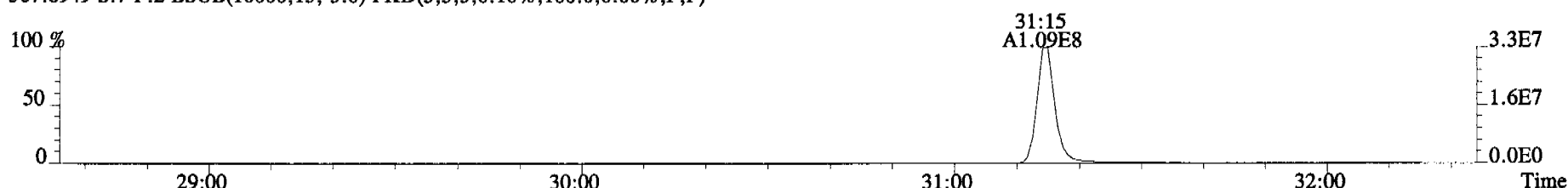
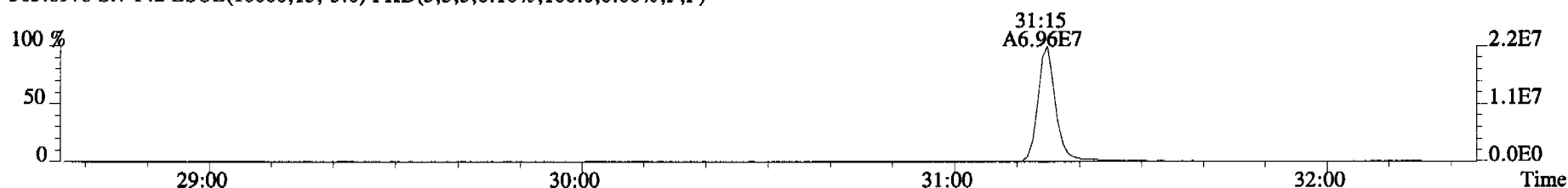
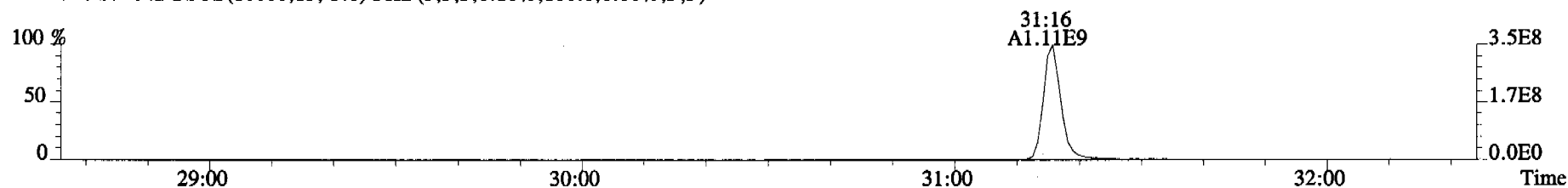
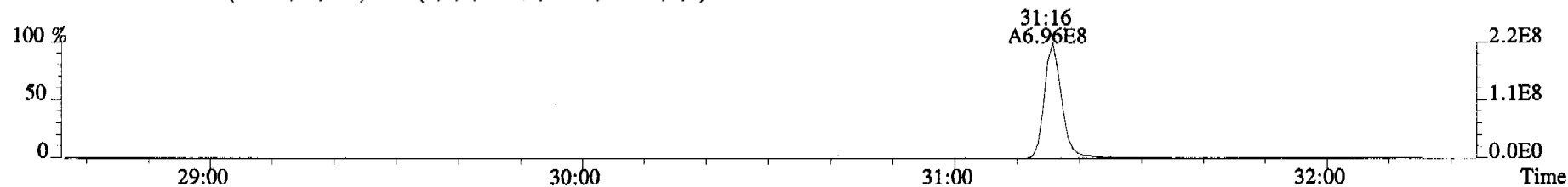
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 0601101 Exp:OCDD\_DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



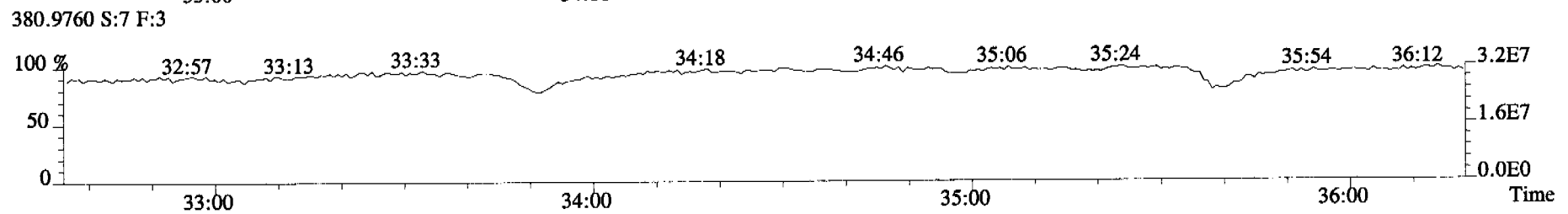
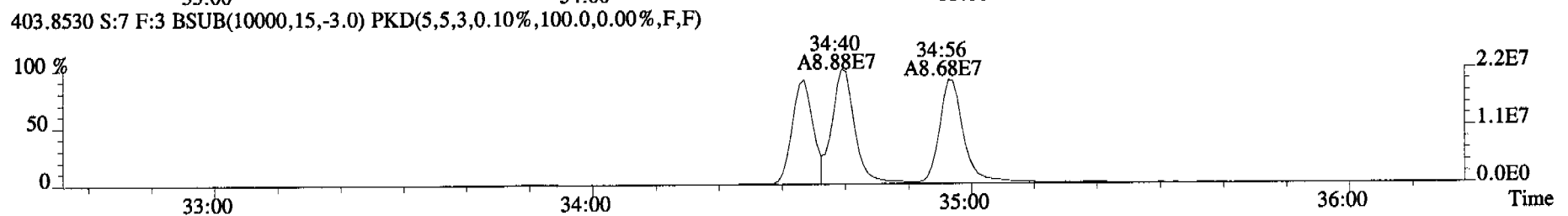
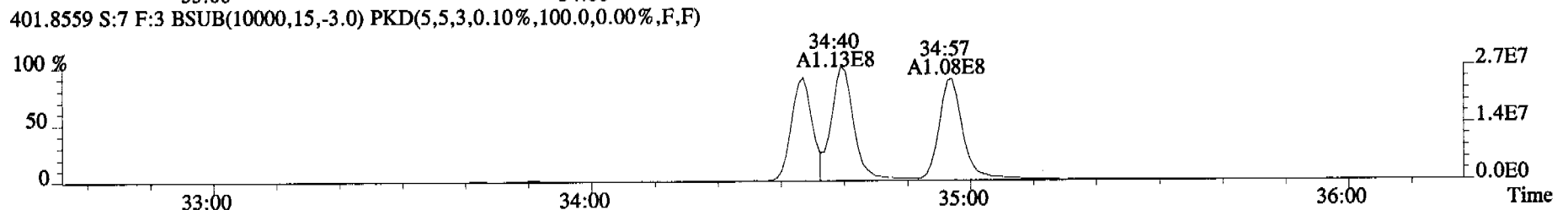
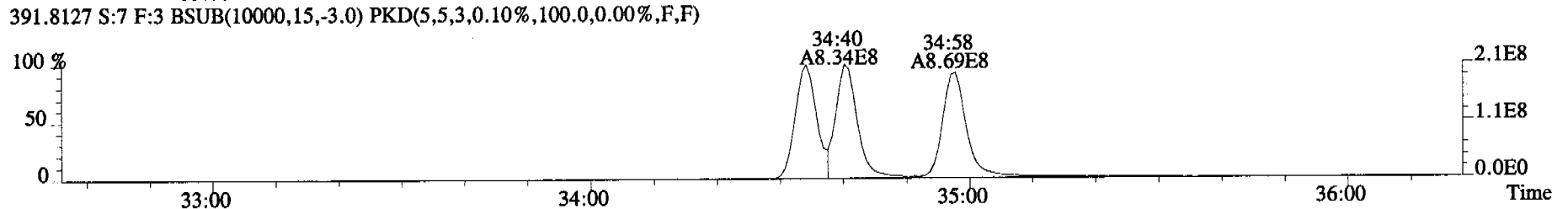
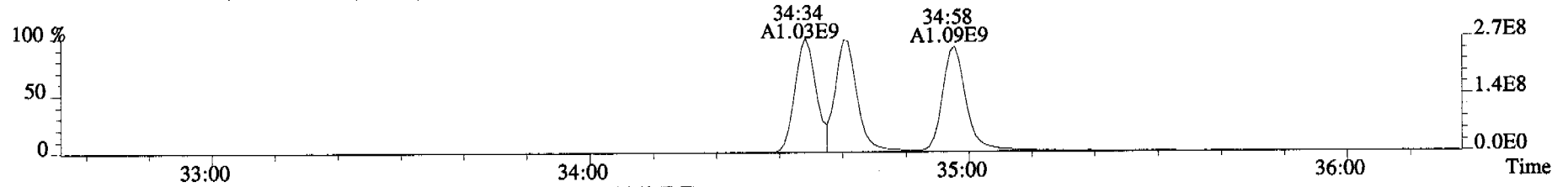
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



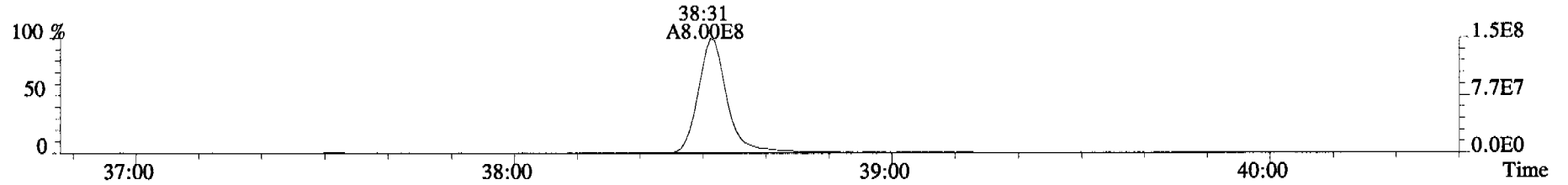
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



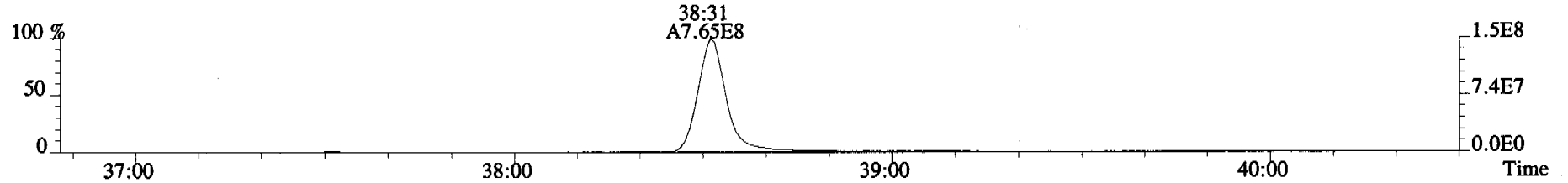
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



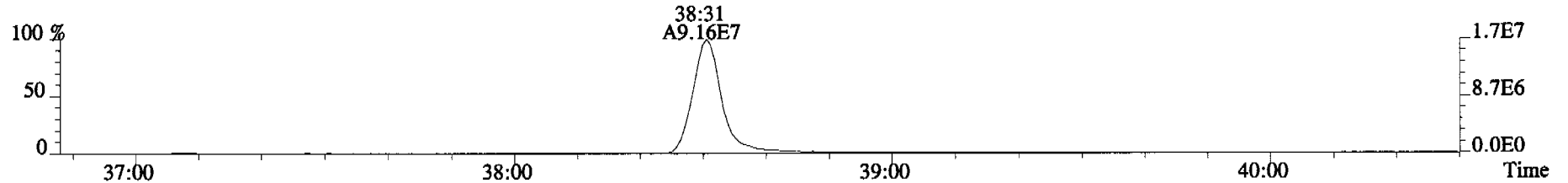
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



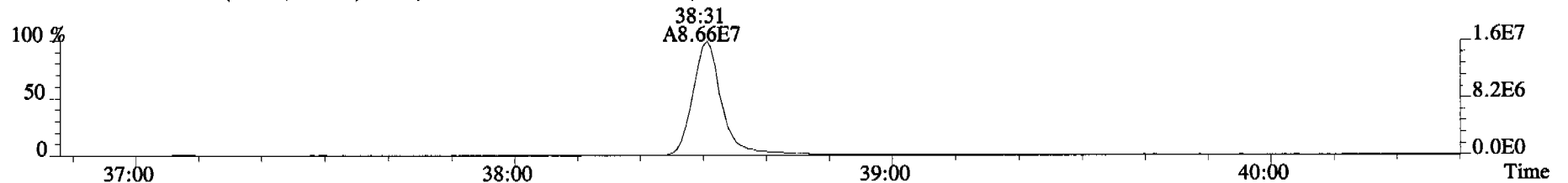
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



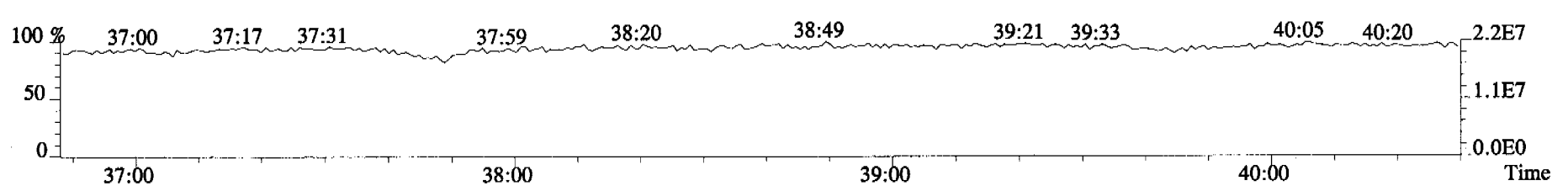
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



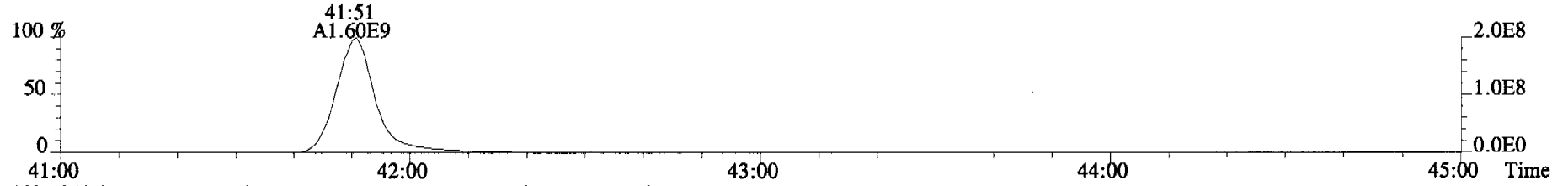
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



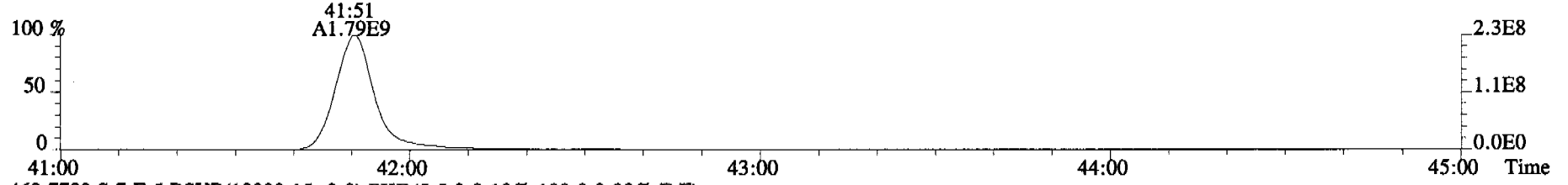
430.9728 S:7 F:4



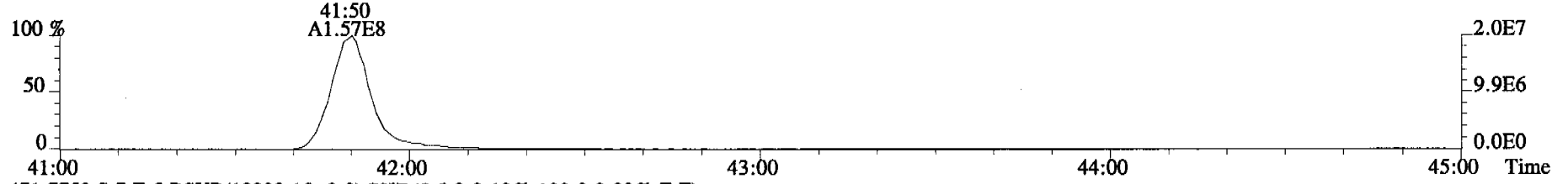
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



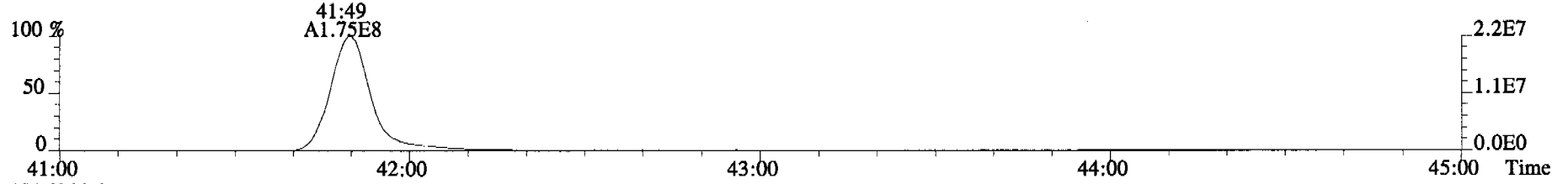
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



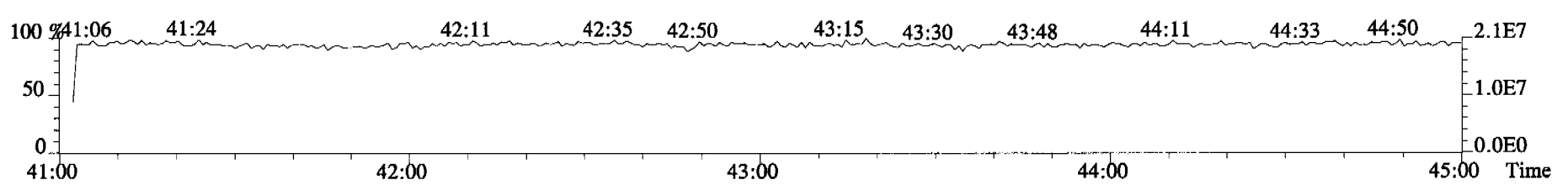
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

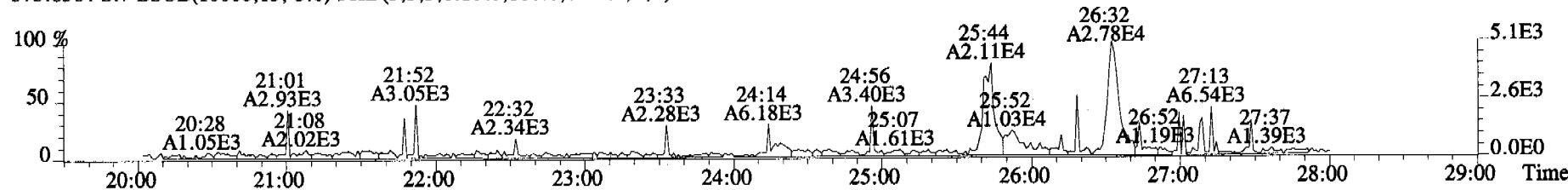
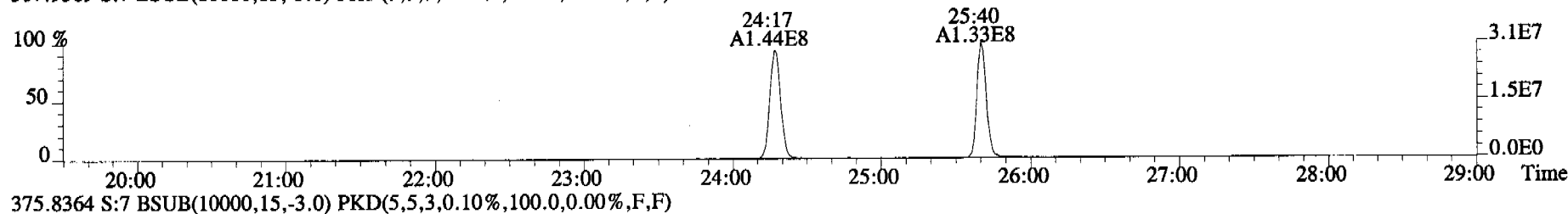
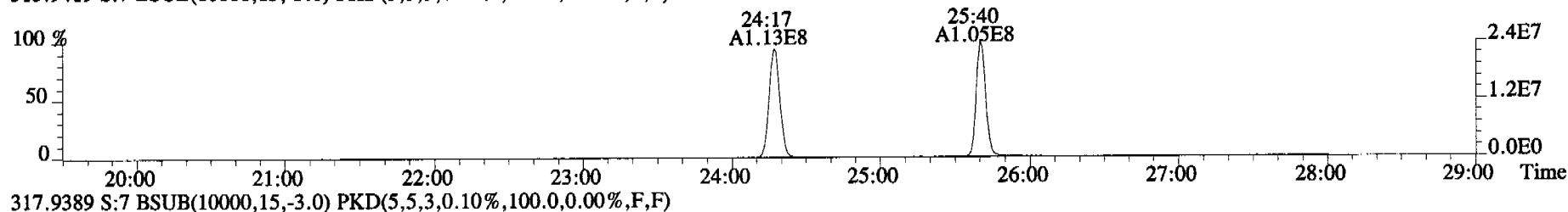
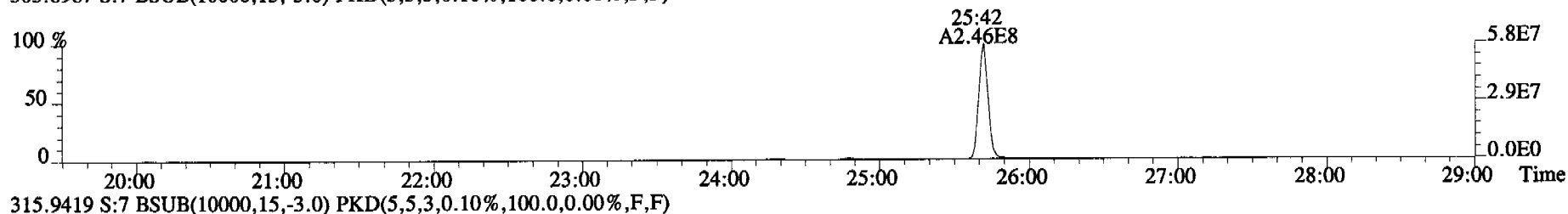
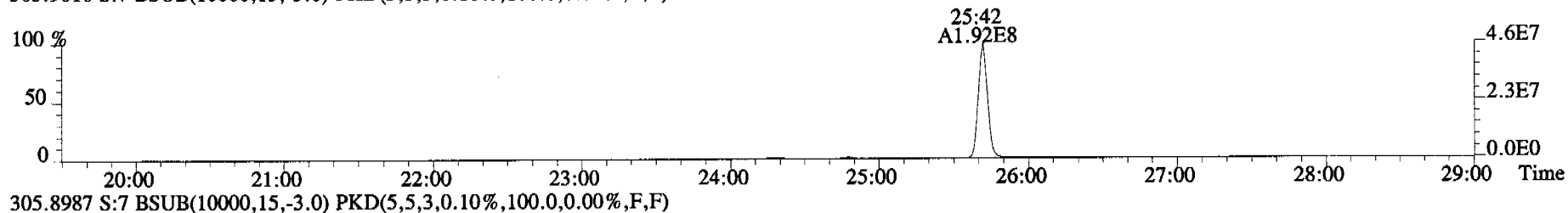


454.9728 S:7 F:5

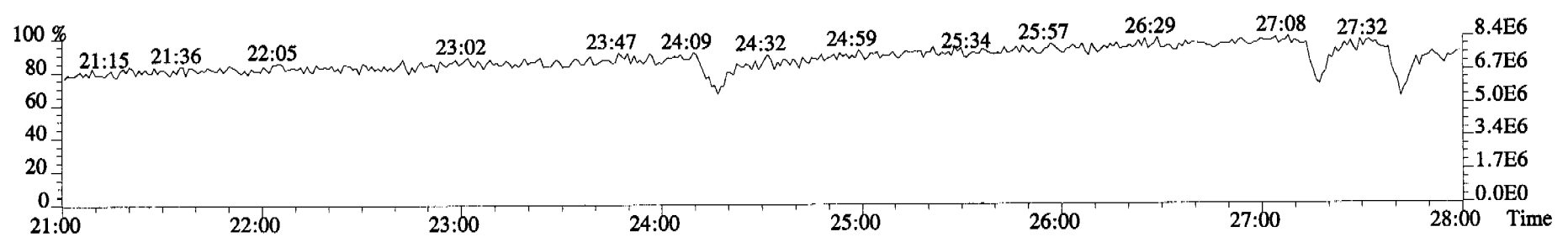
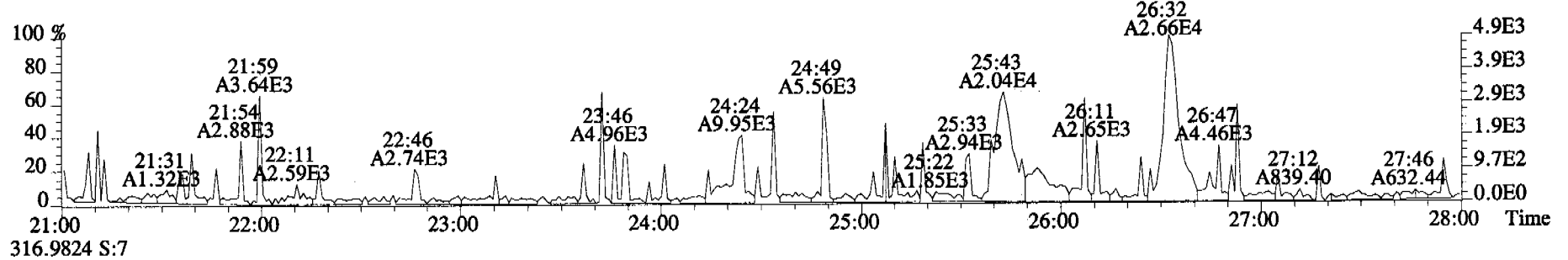
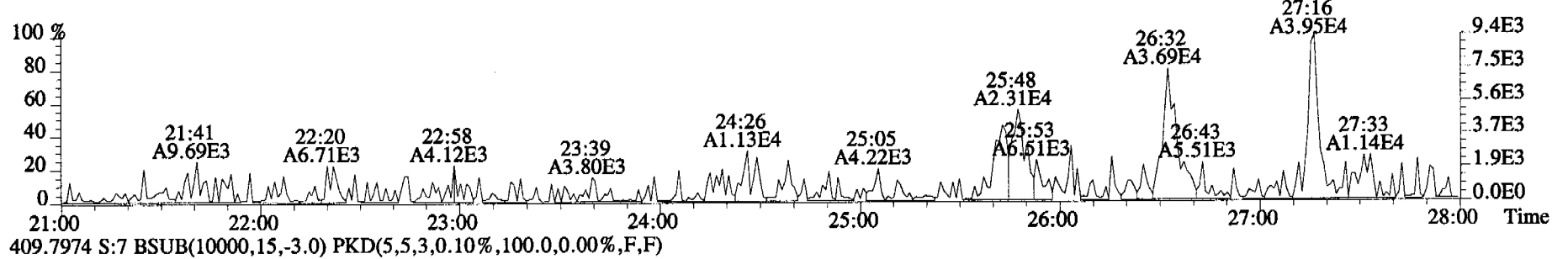
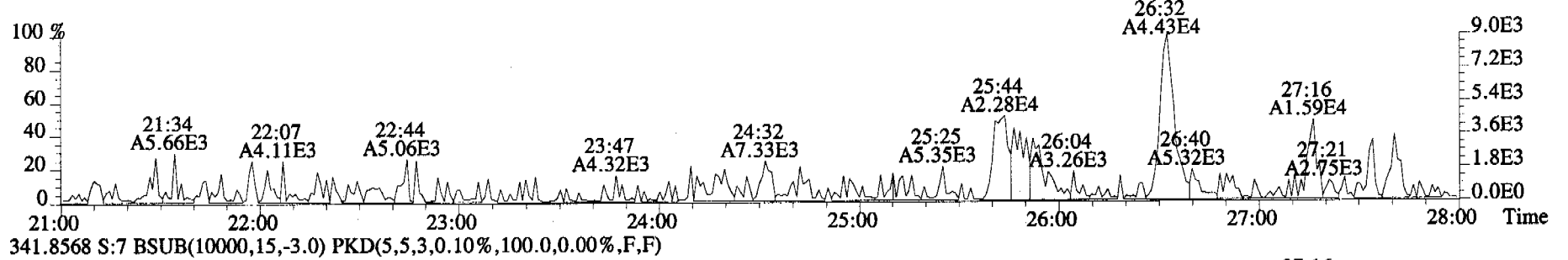




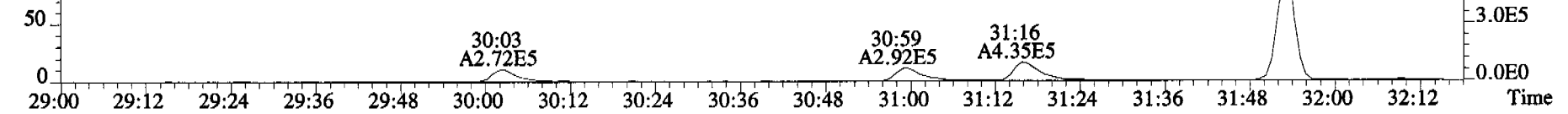
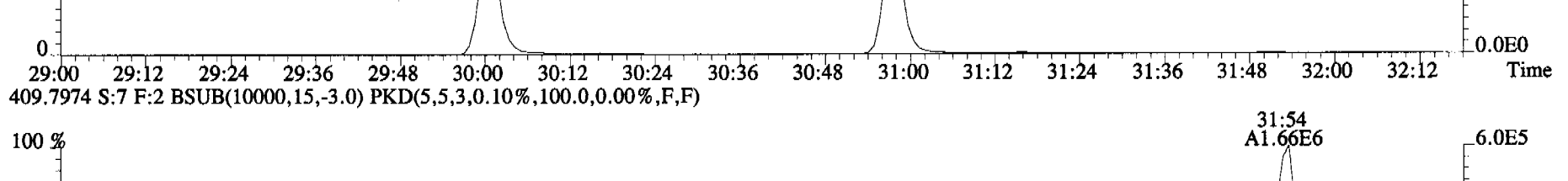
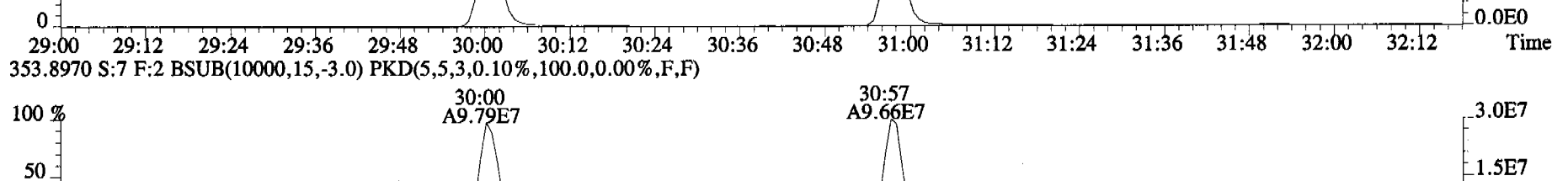
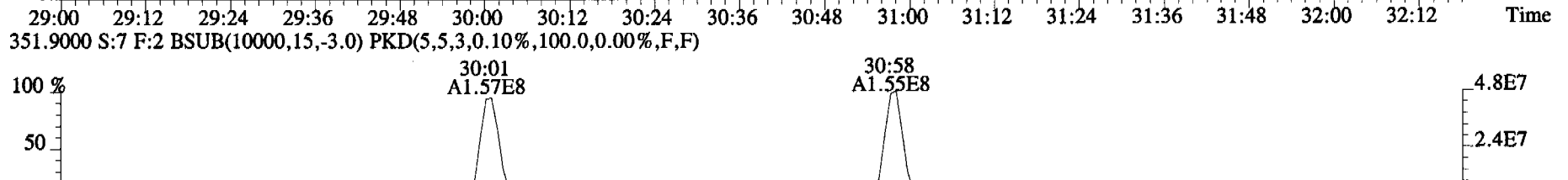
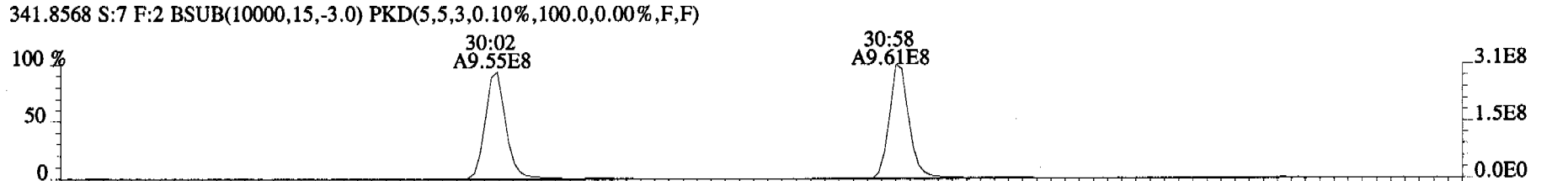
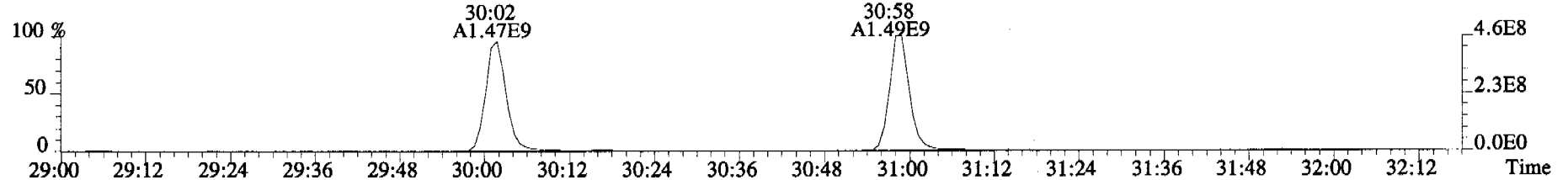
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



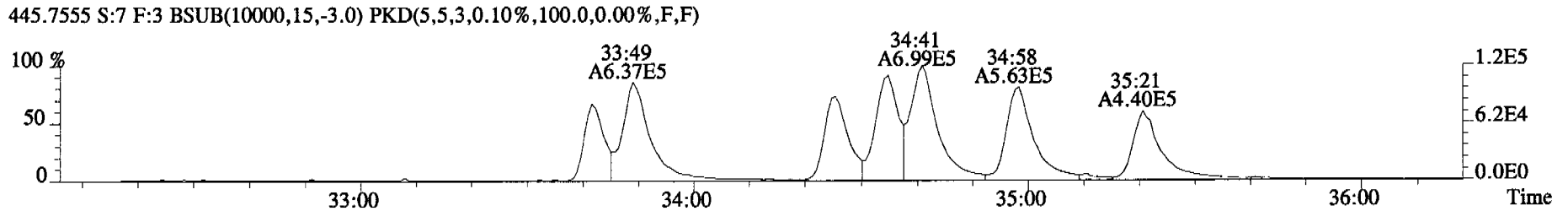
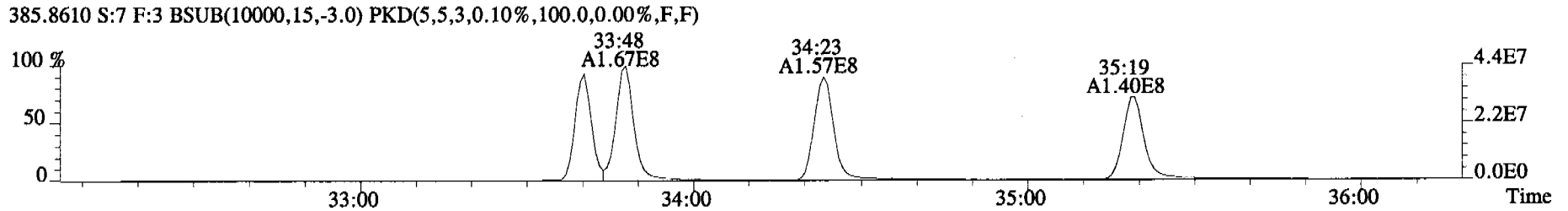
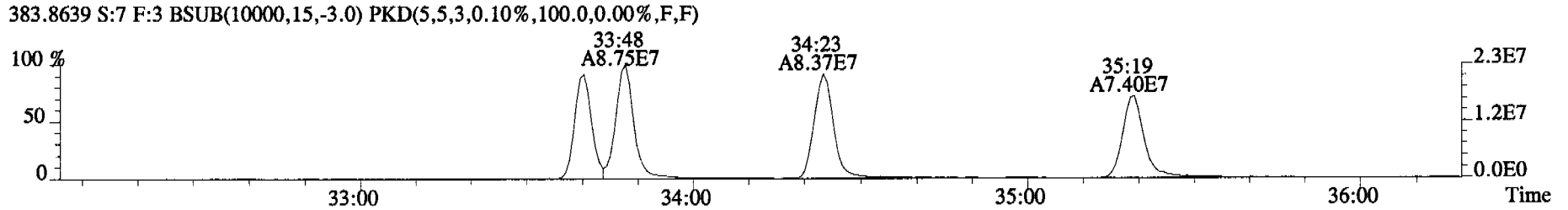
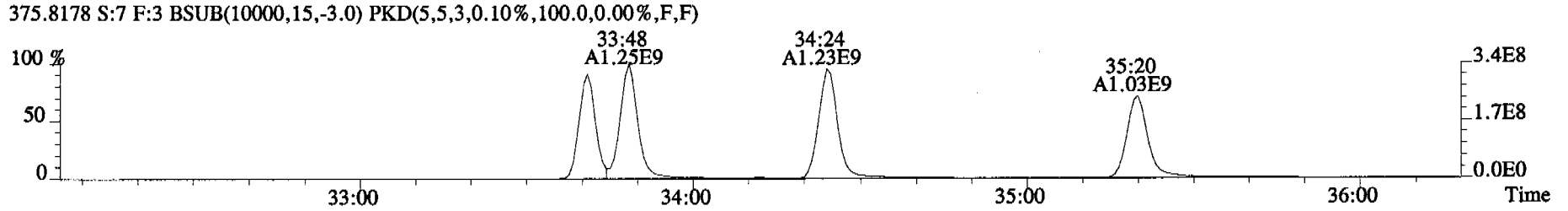
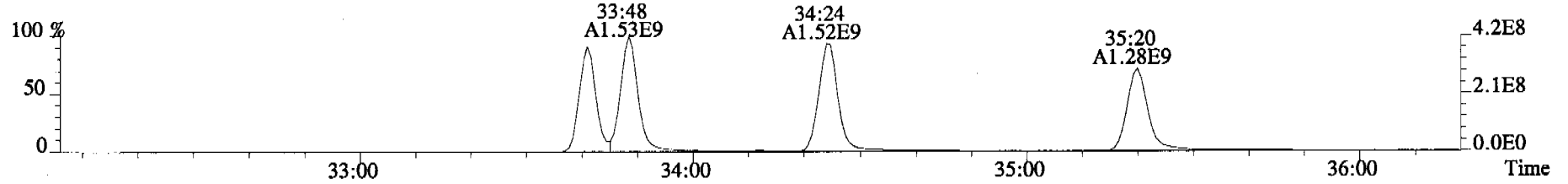
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



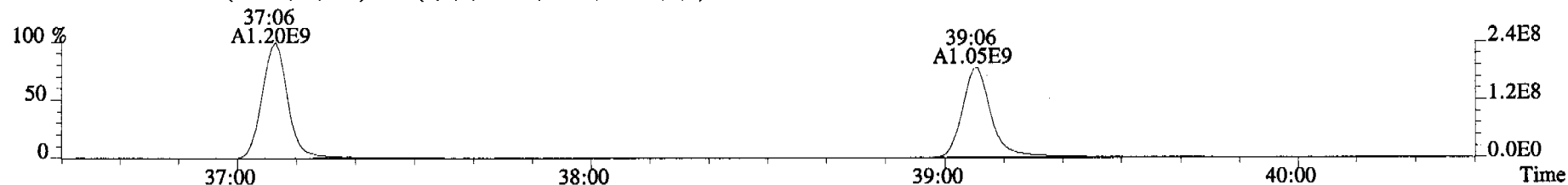
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



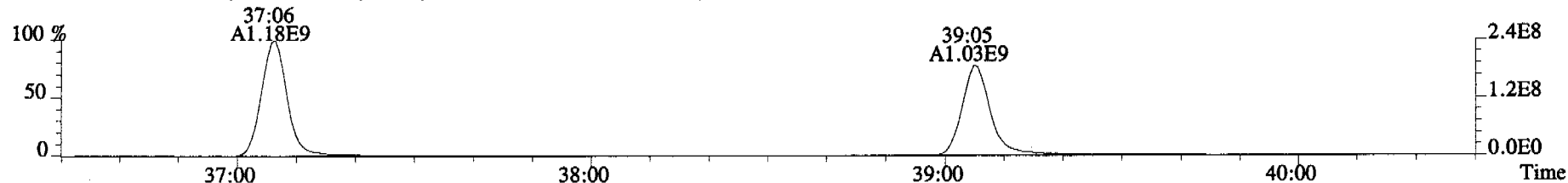
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



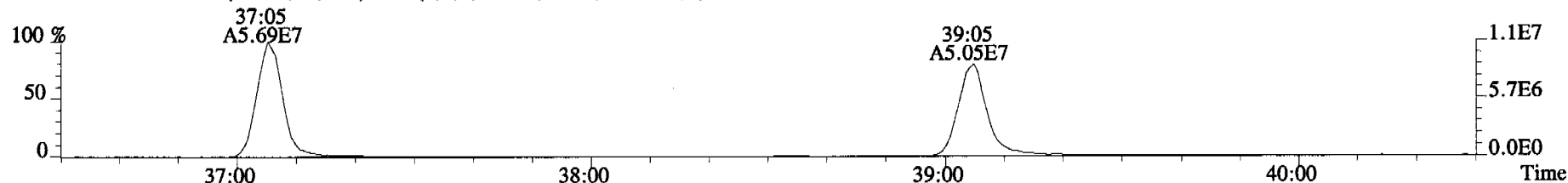
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



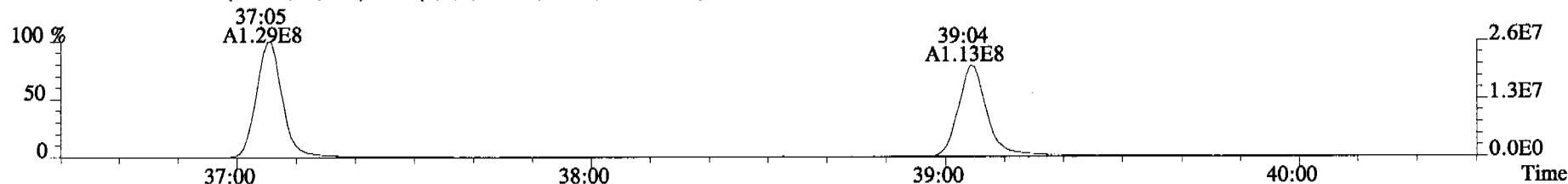
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



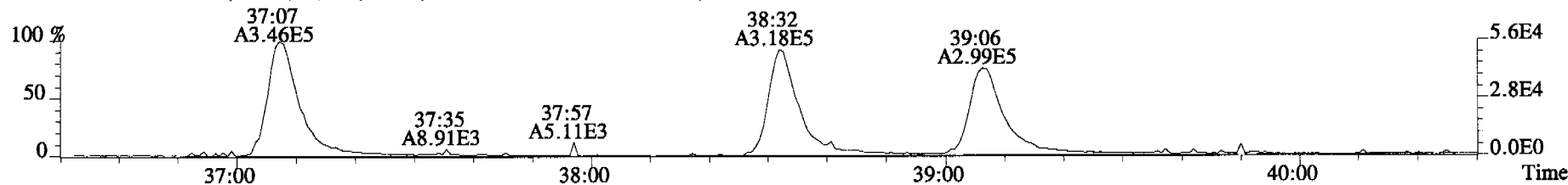
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



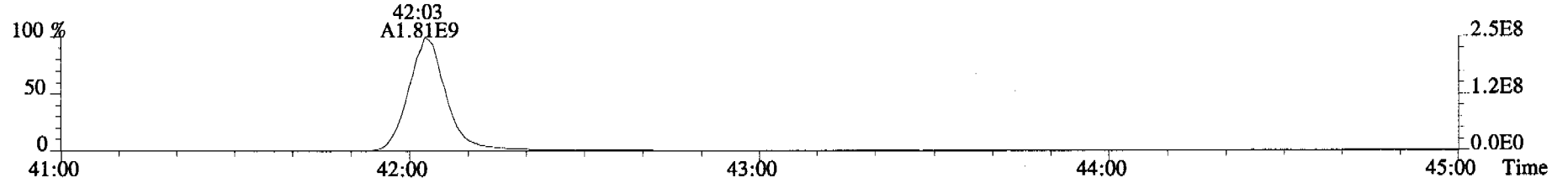
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



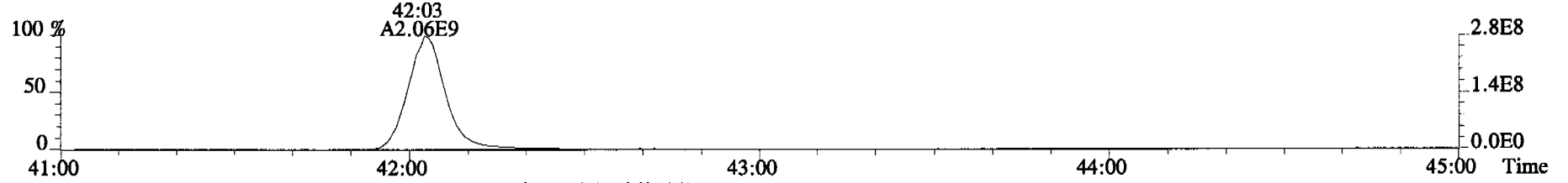
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



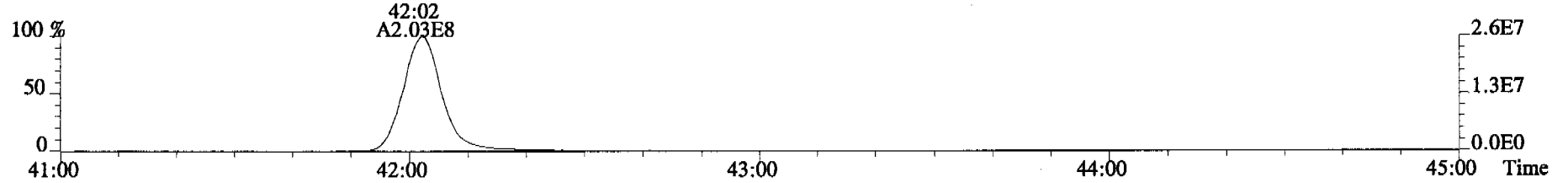
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



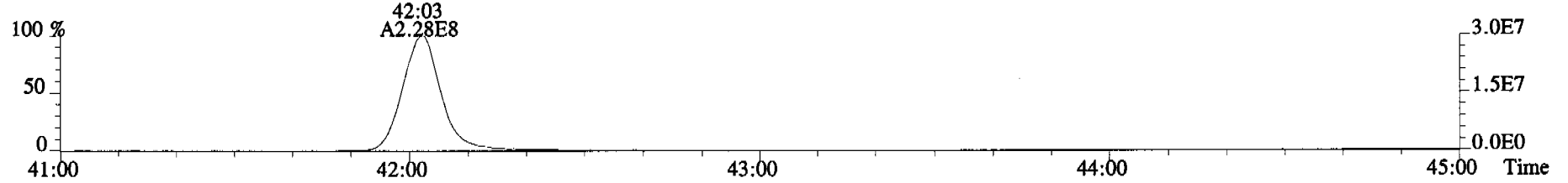
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



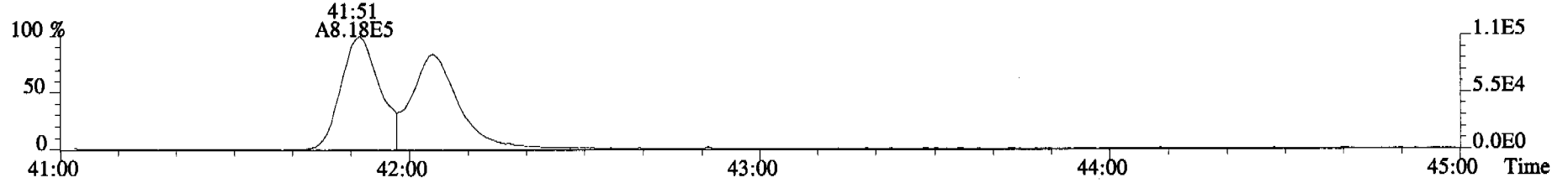
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

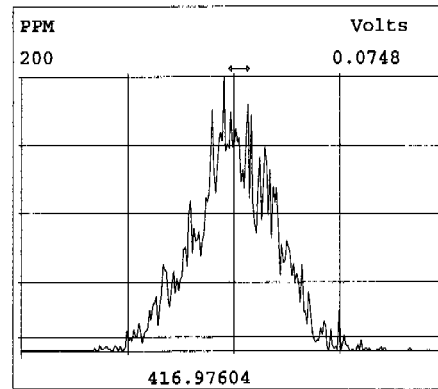
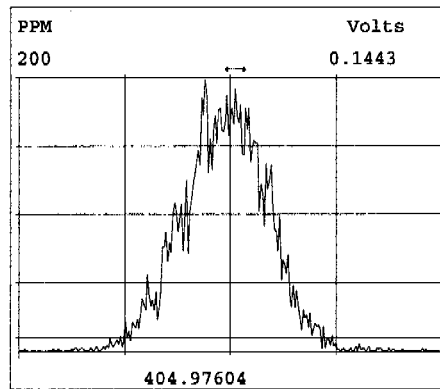
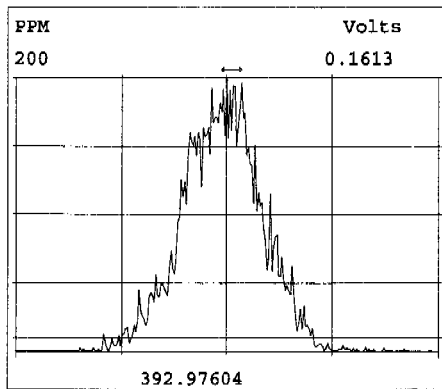
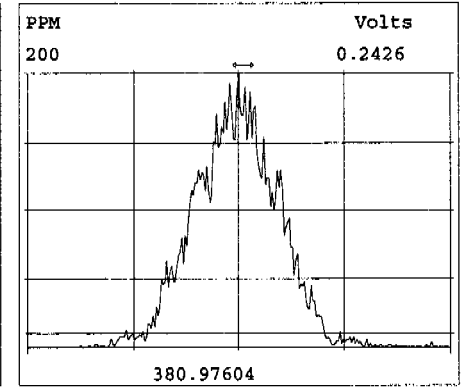
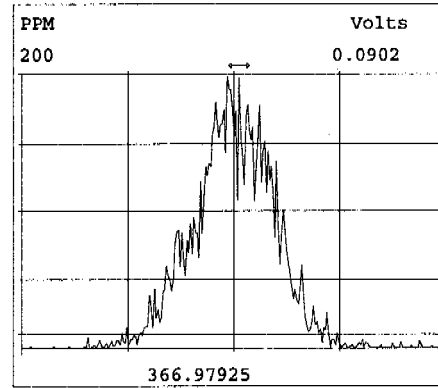
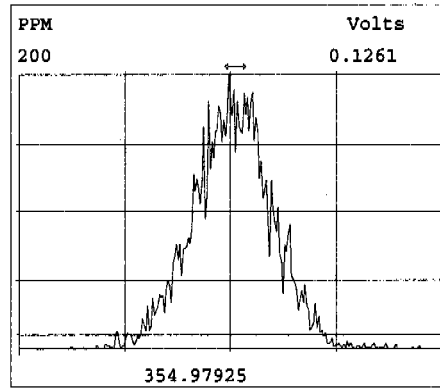
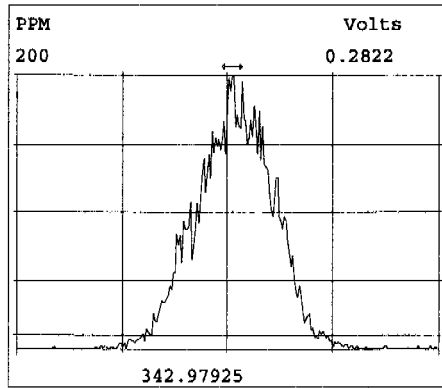
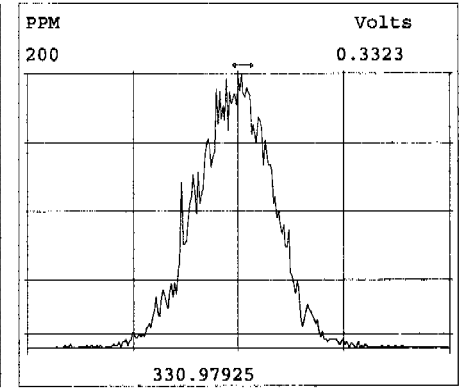
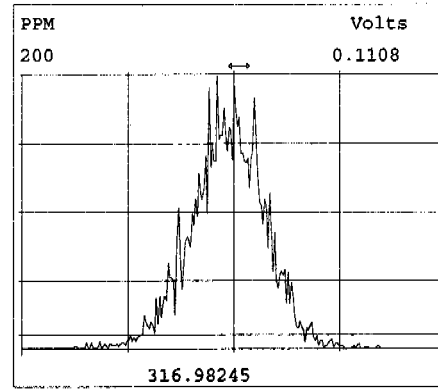
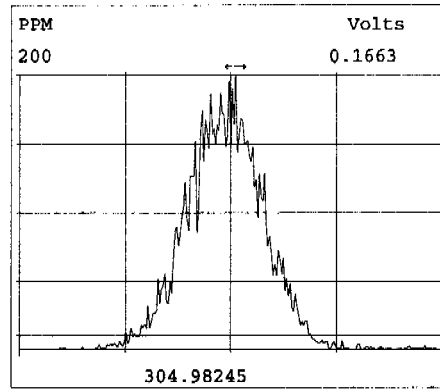
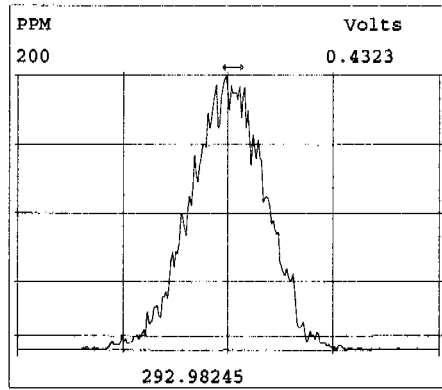


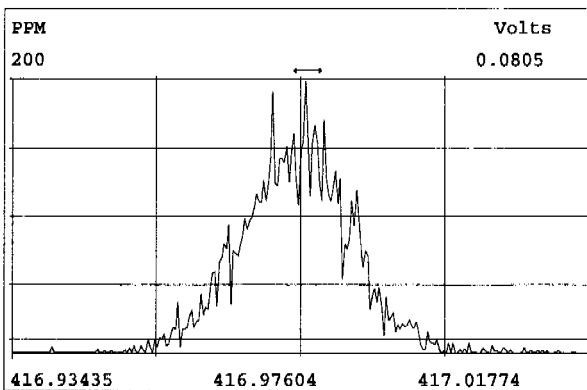
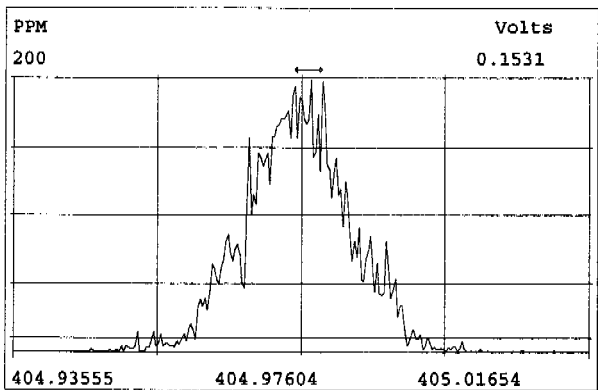
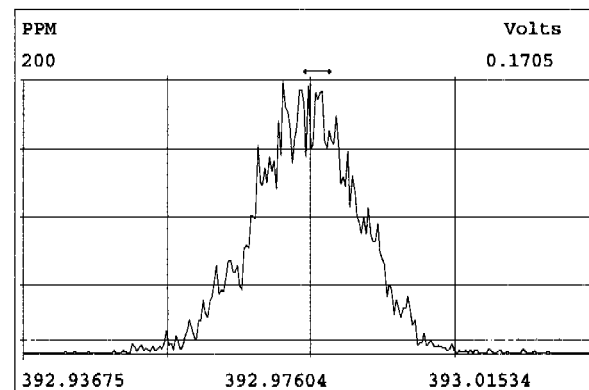
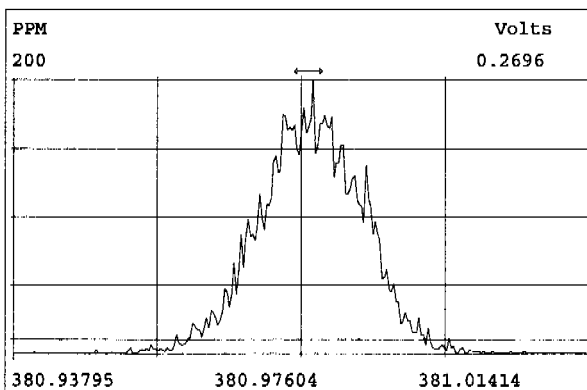
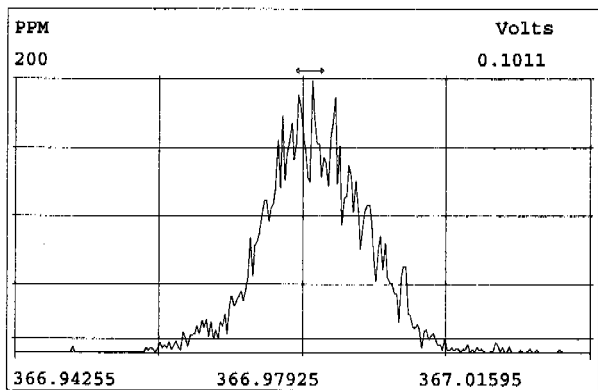
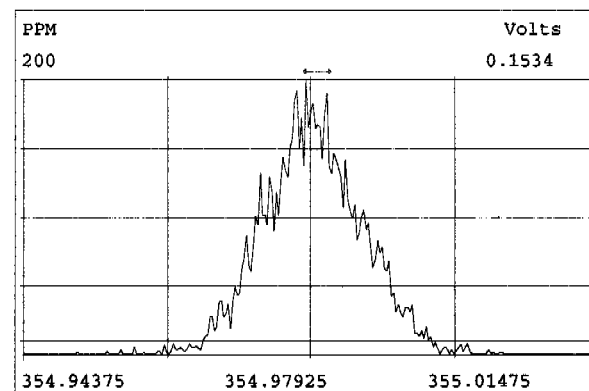
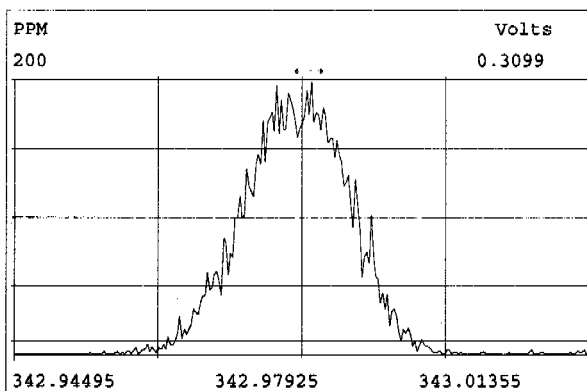
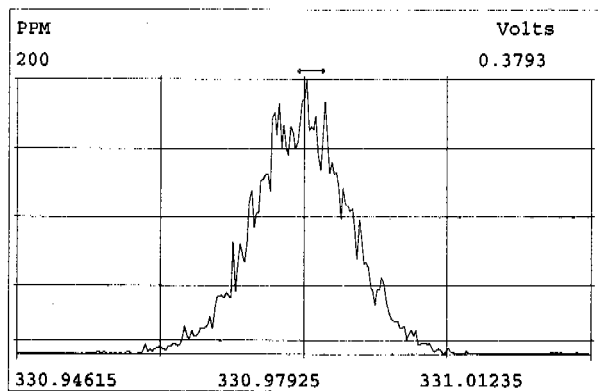
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



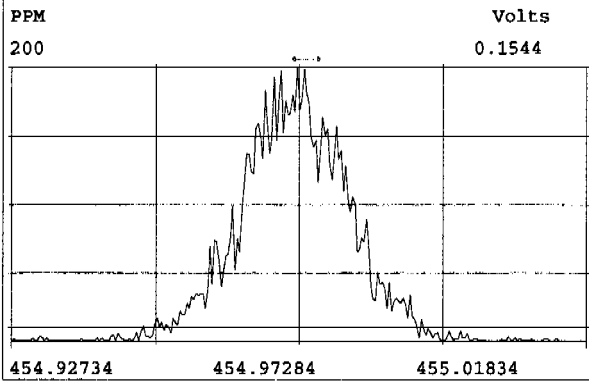
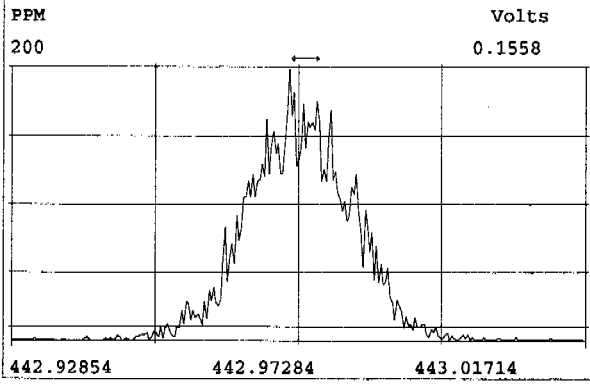
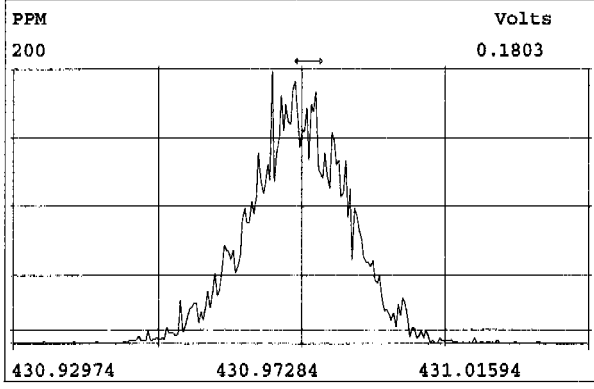
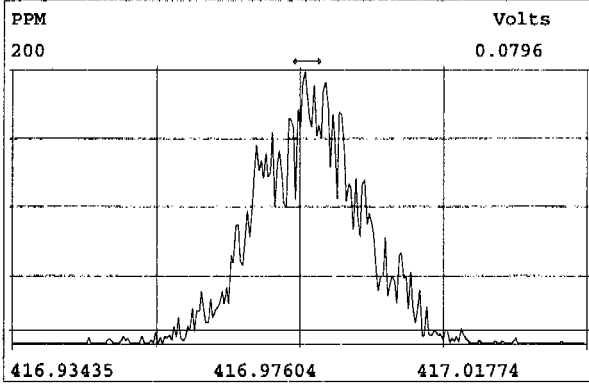
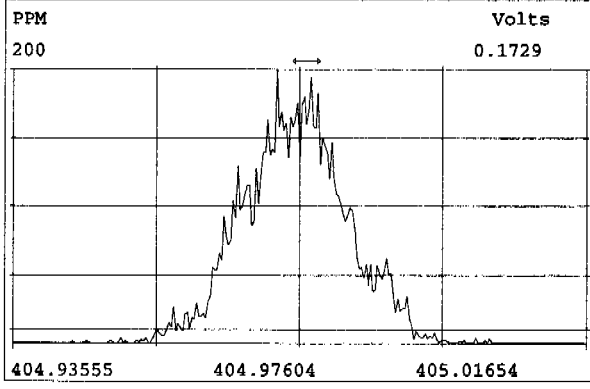
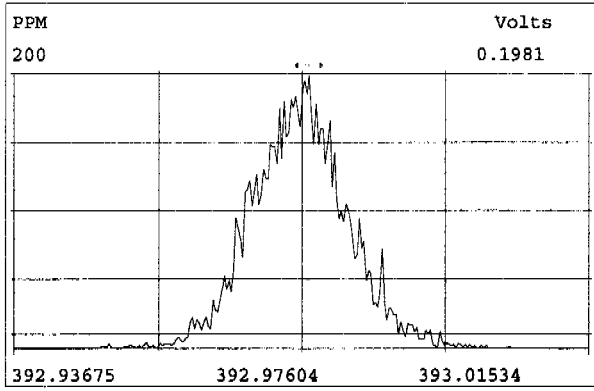
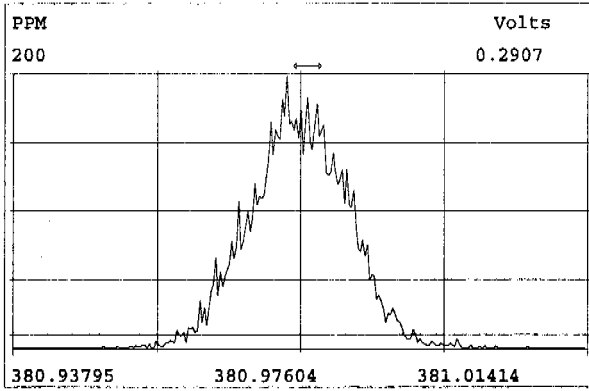
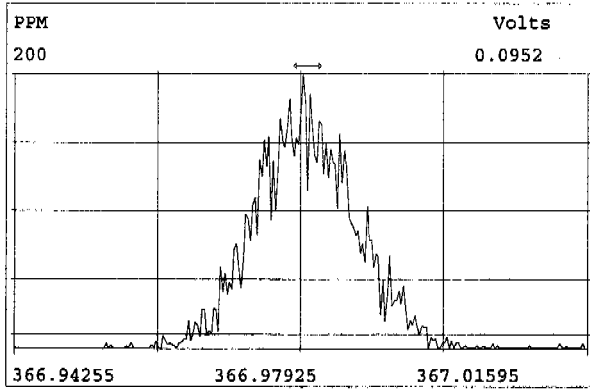
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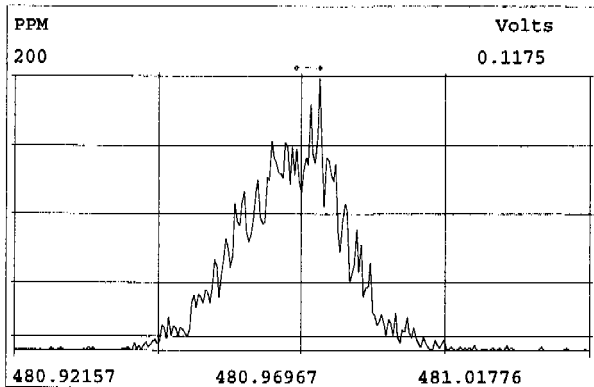
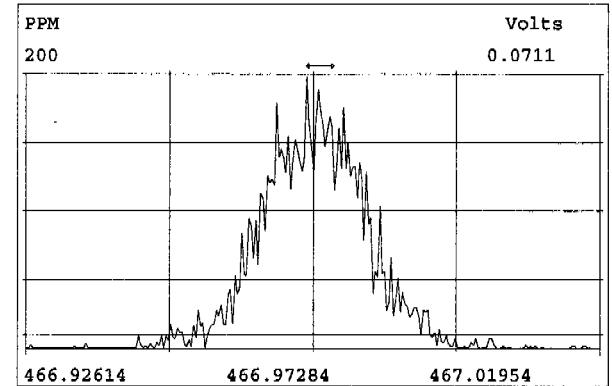
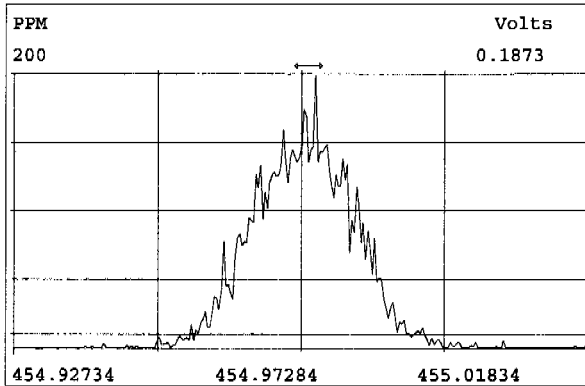
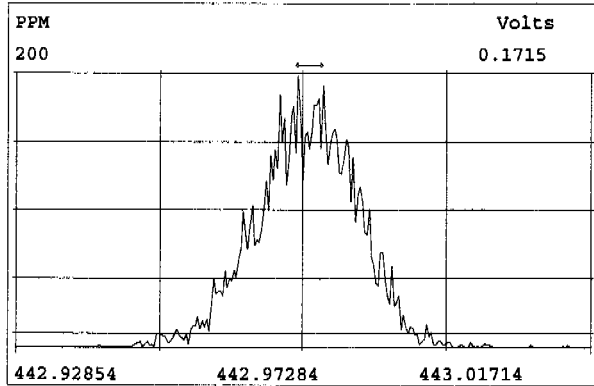
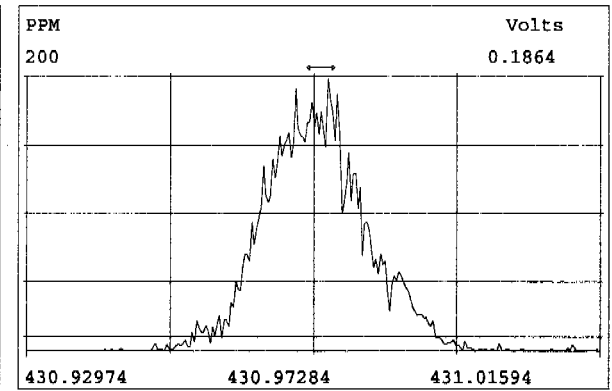
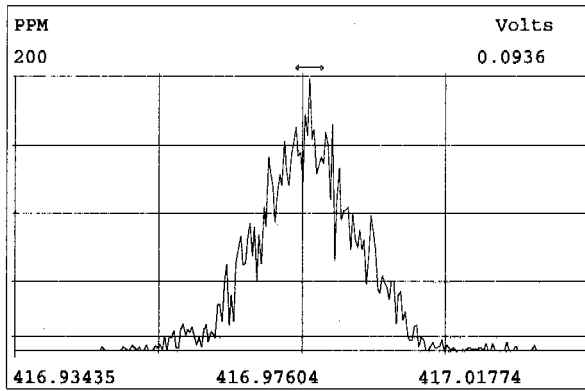
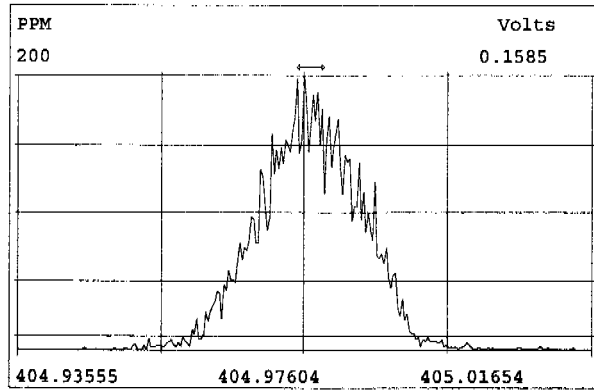


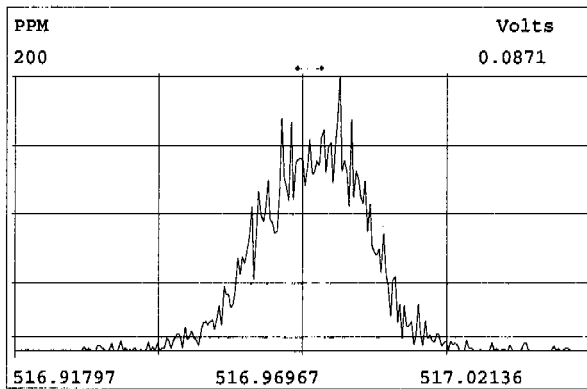
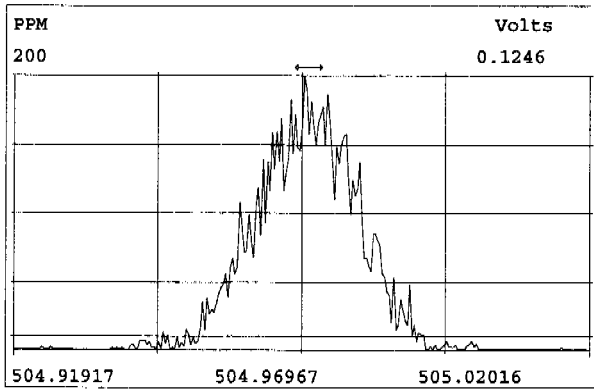
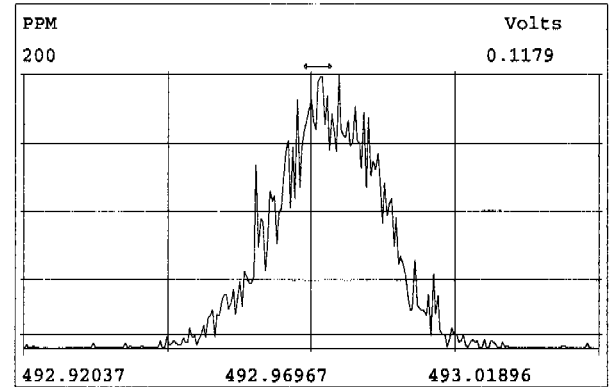
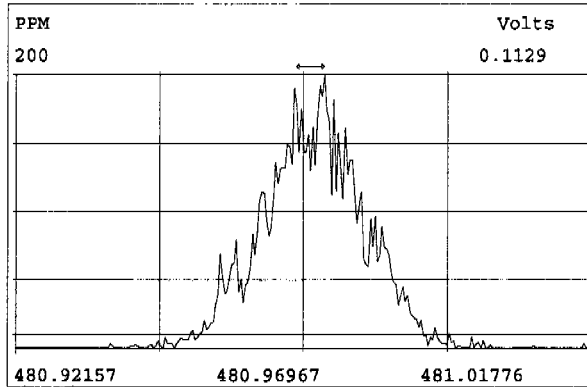
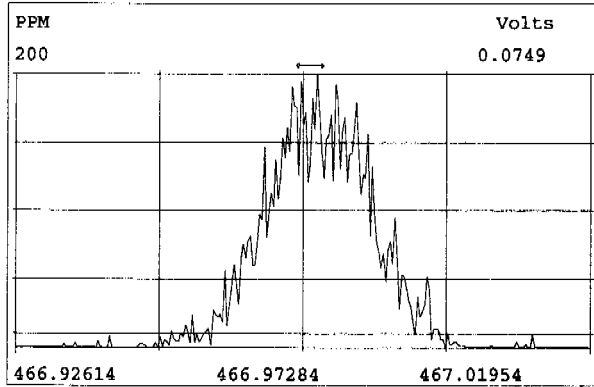
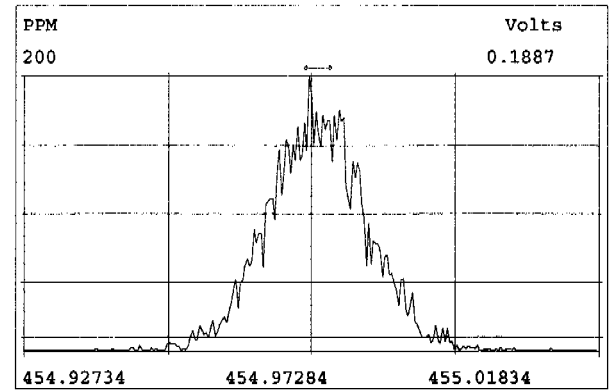
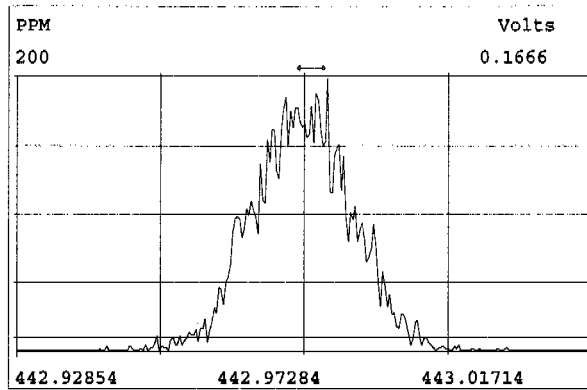
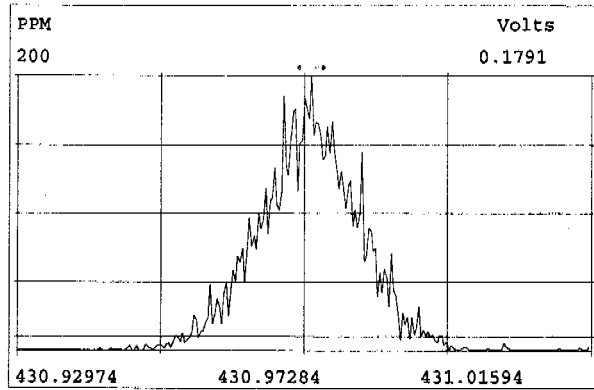












| Name                | Resp     | RA     | RRF  | RT    | Conc   | Qual | noise | Fac | DL | Name                | Conc   | EMPC   | Qual | noise | DL |
|---------------------|----------|--------|------|-------|--------|------|-------|-----|----|---------------------|--------|--------|------|-------|----|
| 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 |     | *  |                     |        |        |      |       |    |

\*98.84

Daily RRF = 1.19 using OCDD

Rec Qual

|    |                         |          |        |      |             |        |  |  |  |       |  |
|----|-------------------------|----------|--------|------|-------------|--------|--|--|--|-------|--|
| IS | 13C-2,3,7,8-TCDD        | 1.57e+08 | 0.78 y | 1.09 | 26:32       | 94.685 |  |  |  | 94.7  |  |
| IS | 13C-1,2,3,7,8-PeCDD     | 1.56e+08 | 0.64 y | 1.04 | 31:16       | 98.317 |  |  |  | 98.3  |  |
| IS | 13C-1,2,3,4,7,8-HxCDD   | 1.34e+08 | 1.27 y | 0.83 | 34:34       | 100.36 |  |  |  | 100   |  |
| IS | 13C-1,2,3,6,7,8-HxCDD   | 1.59e+08 | 1.28 y | 1.04 | 34:40       | 95.078 |  |  |  | 95.1  |  |
| IS | 13C-1,2,3,4,6,7,8-HpCDD | 1.43e+08 | 1.08 y | 0.85 | 38:31       | 104.81 |  |  |  | 105   |  |
| IS | 13C-OCDD                | 2.59e+08 | 0.90 y | 0.71 | 41:50       | 225.79 |  |  |  | 113   |  |
| IS | 13C-2,3,7,8-TCDF        | 2.12e+08 | 0.80 y | 0.96 | 25:42       |        |  |  |  | +94.0 |  |
| IS | 13C-1,2,3,7,8-PeCDF     | 2.14e+08 | 1.59 y | 1.02 | 30:02       |        |  |  |  | +89.2 |  |
| IS | 13C-2,3,4,7,8-PeCDF     | 2.29e+08 | 1.59 y | 1.02 | 30:59       |        |  |  |  | +95.5 |  |
| IS | 13C-1,2,3,4,7,8-HxCDF   | 1.84e+08 | 0.51 y | 1.14 | 33:41       | 99.916 |  |  |  | 99.9  |  |
| IS | 13C-1,2,3,6,7,8-HxCDF   | 2.27e+08 | 0.52 y | 1.40 | 33:49       | 100.76 |  |  |  | 101   |  |
| IS | 13C-2,3,4,6,7,8-HxCDF   | 2.01e+08 | 0.52 y | 1.26 | 34:24       | 99.050 |  |  |  | 99.0  |  |
| IS | 13C-1,2,3,7,8,9-HxCDF   | 1.72e+08 | 0.52 y | 1.08 | 35:20       | 98.961 |  |  |  | 99.0  |  |
| IS | 13C-1,2,3,4,6,7,8-HpCDF | 1.46e+08 | 0.43 y | 0.93 | 37:08       | 97.155 |  |  |  | 97.2  |  |
| IS | 13C-1,2,3,4,7,8,9-HpCDF | 1.27e+08 | 0.43 y | 0.77 | 39:03       | 102.95 |  |  |  | 103   |  |
| IS | 13C-OCDF                | *        | * n    | 0.94 | NotF $\eta$ | *      |  |  |  | *     |  |

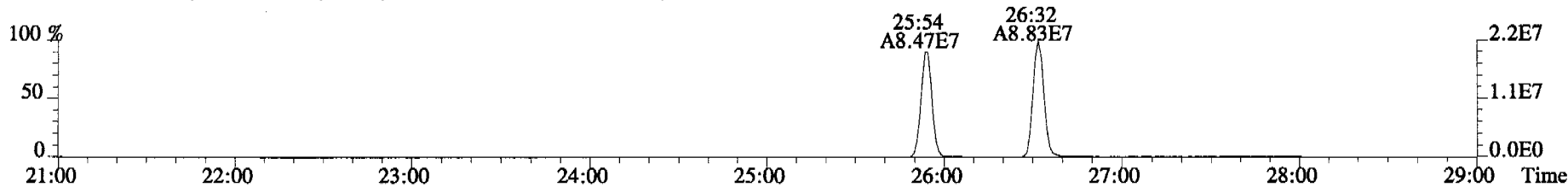
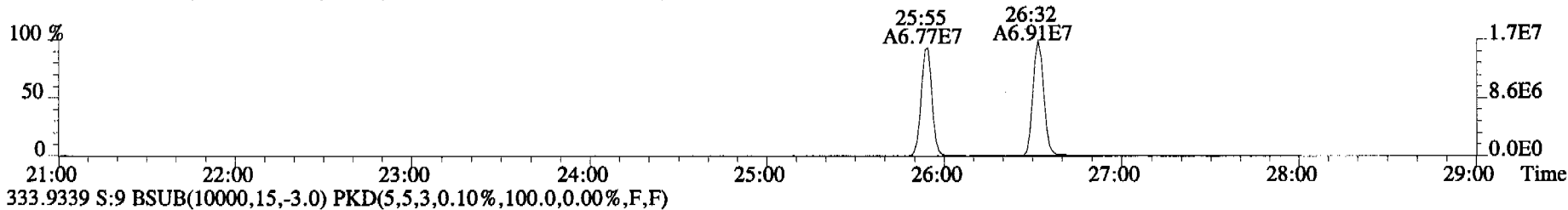
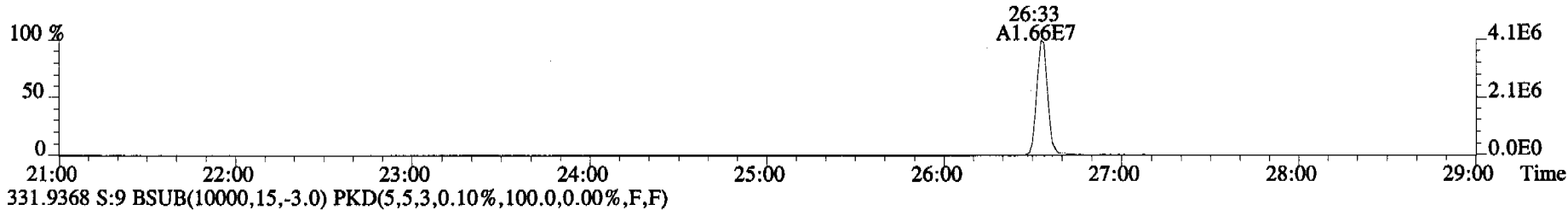
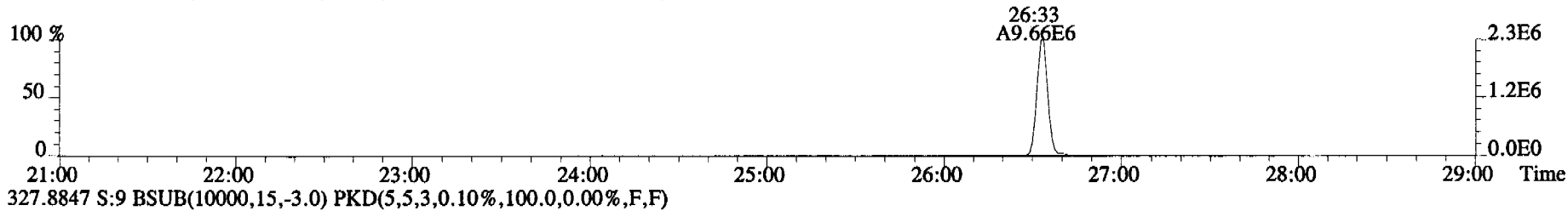
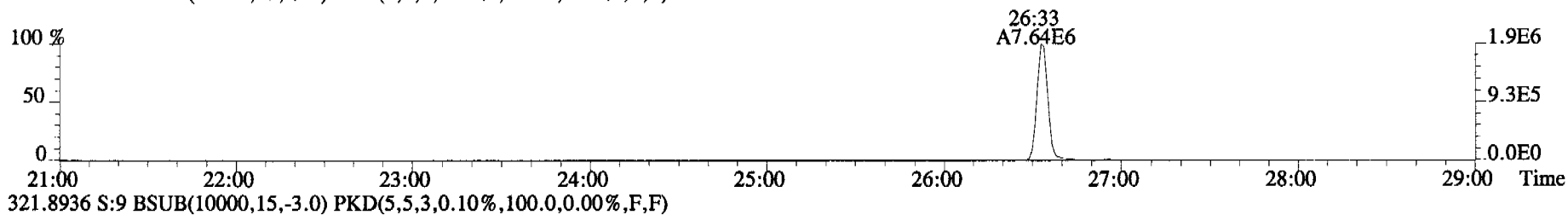
\*Daily RRF = 1.46 using TCDD  
\*Daily RRF = 1.58 using TCDD  
\*Daily RRF = 1.58 using TCDD

|       |                       |          |        |      |             |        |  |  |  |     |  |
|-------|-----------------------|----------|--------|------|-------------|--------|--|--|--|-----|--|
| 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 $\eta$ | *      |  |  |  |     |  |
| RS/RT | 13C-1,2,3,7,8,9-HxCDD | 1.61e+08 | 1.27 y | 1.00 | 34:57       | 100.00 |  |  |  |     |  |

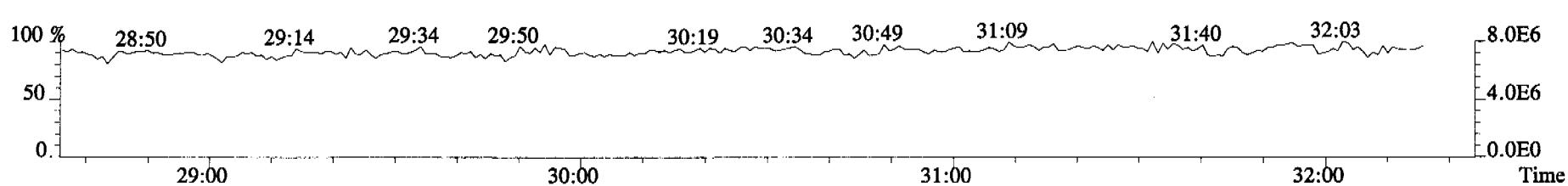
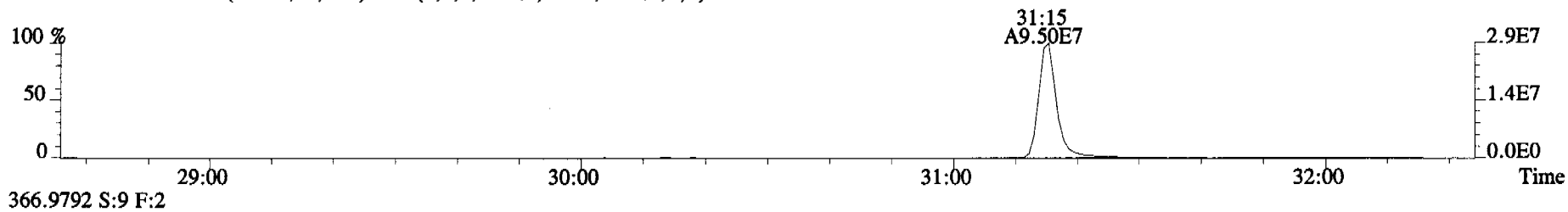
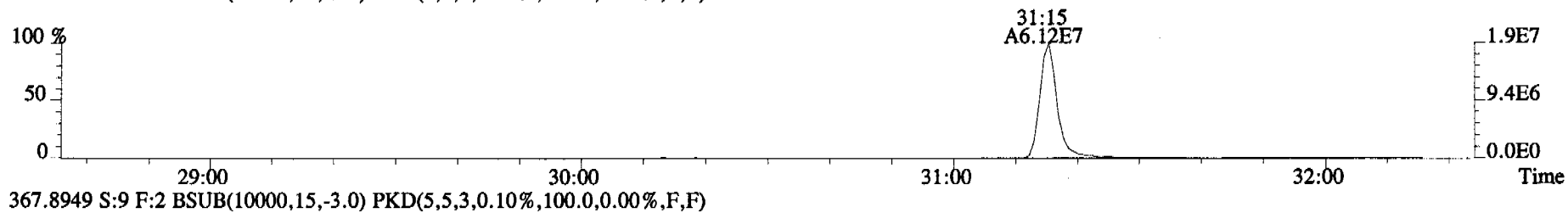
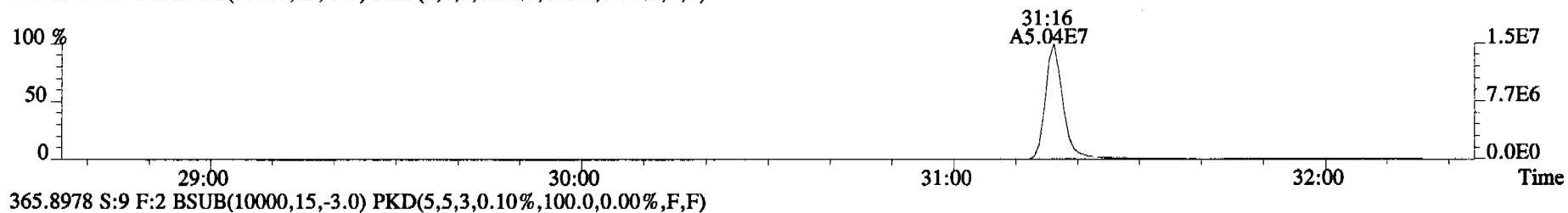
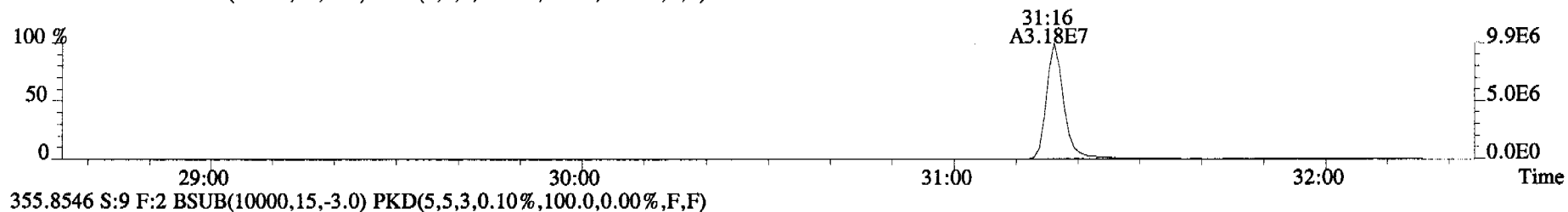
Integrations Reviewed  
by my by \_\_\_\_\_  
Analyst: \_\_\_\_\_ Analyst: \_\_\_\_\_

Date: 3/23/06 Date: \_\_\_\_\_

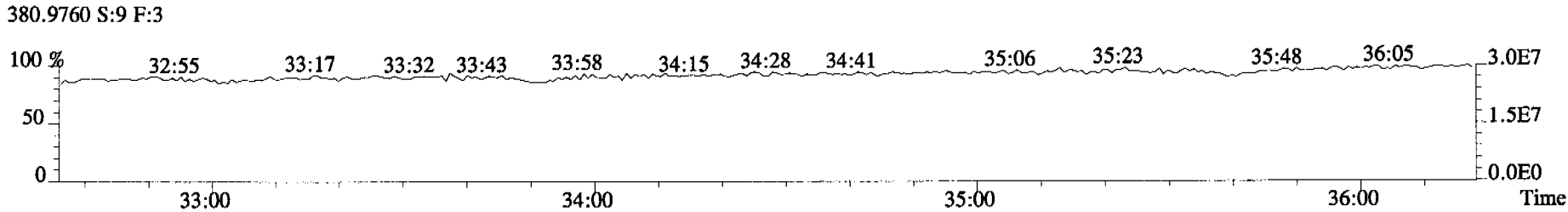
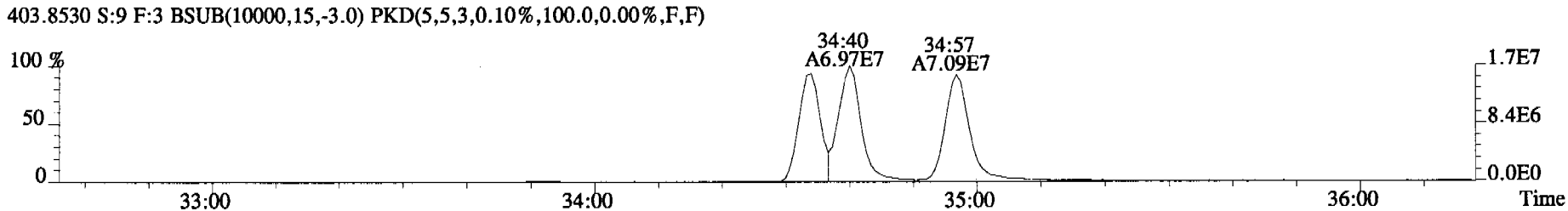
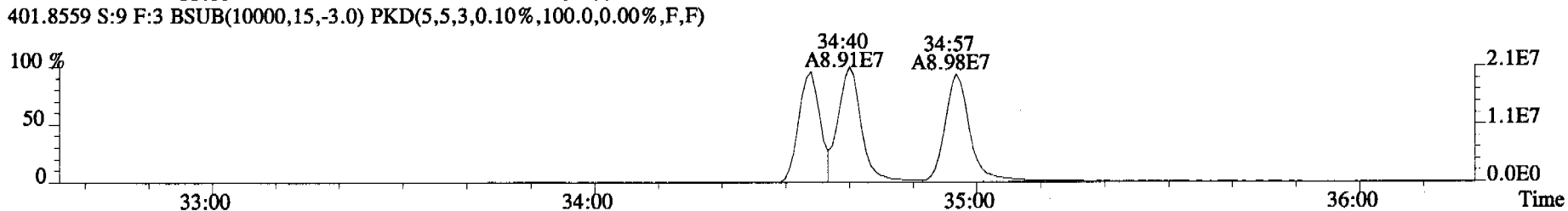
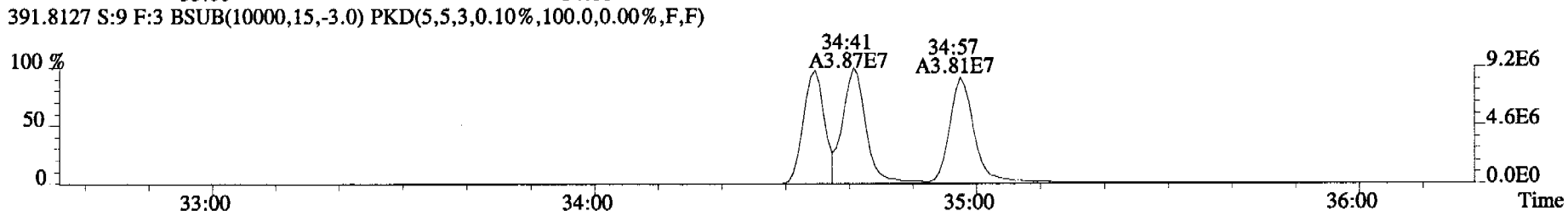
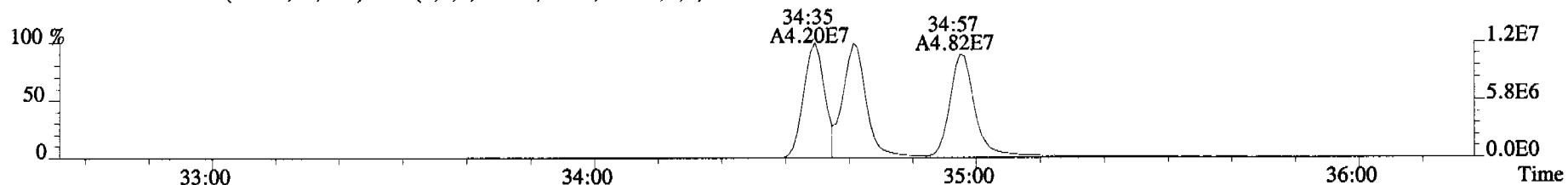
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



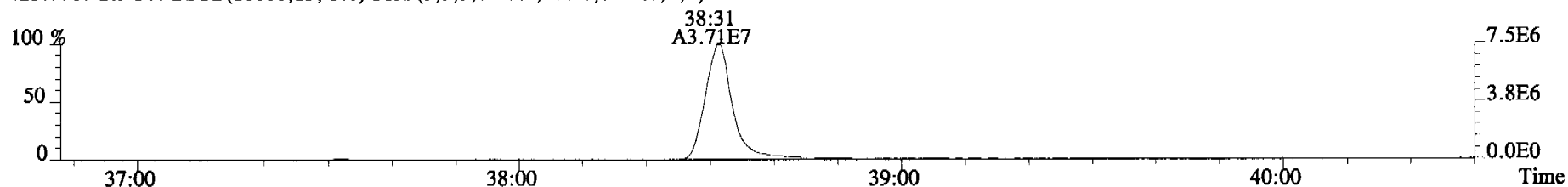
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



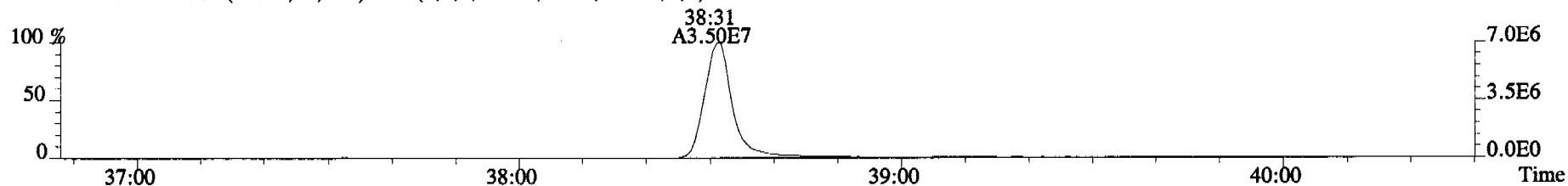
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



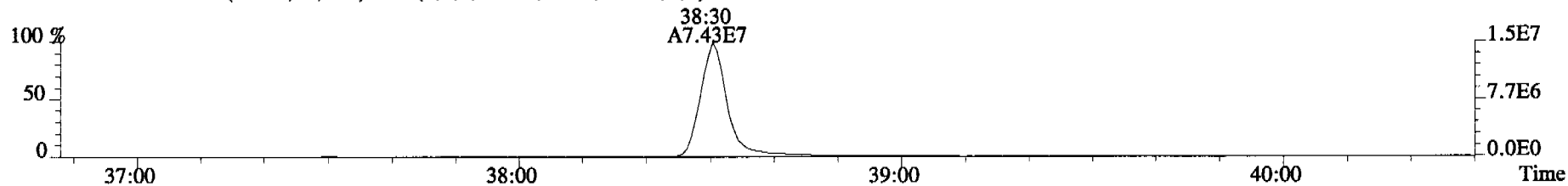
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



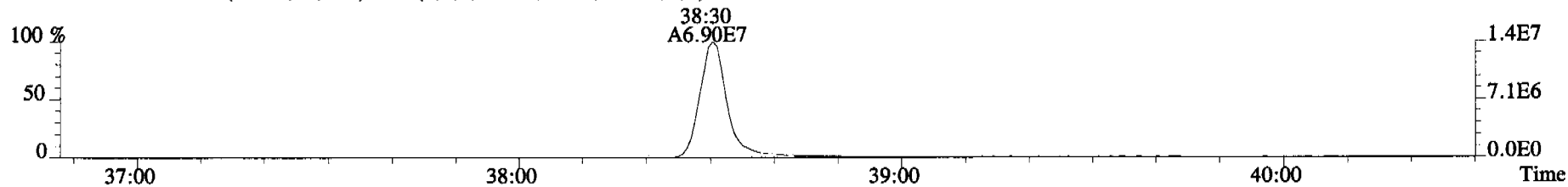
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



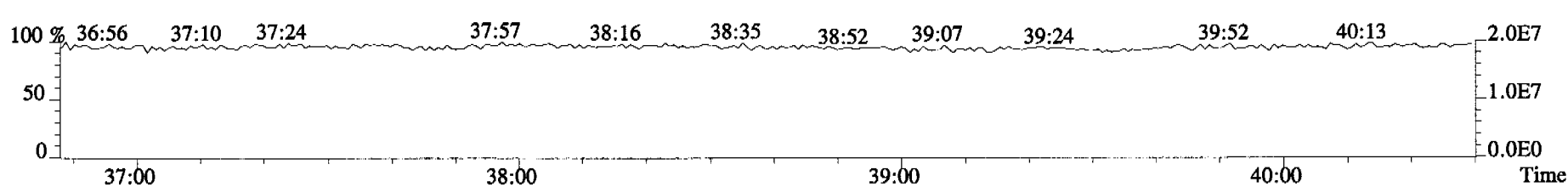
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

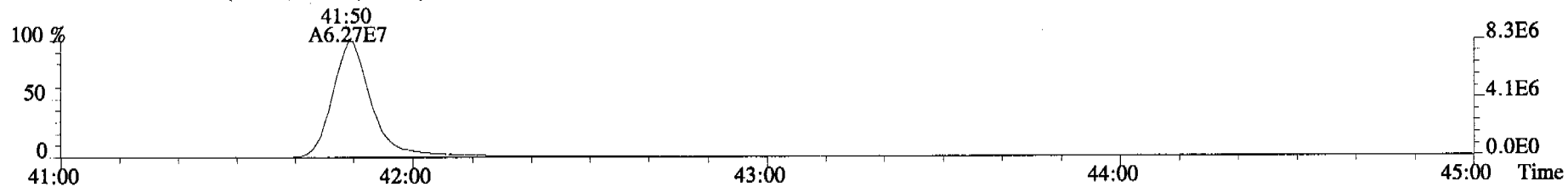


430.9728 S:9 F:4

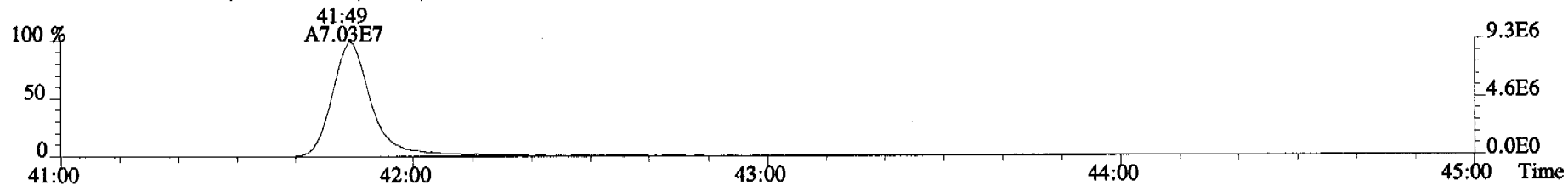




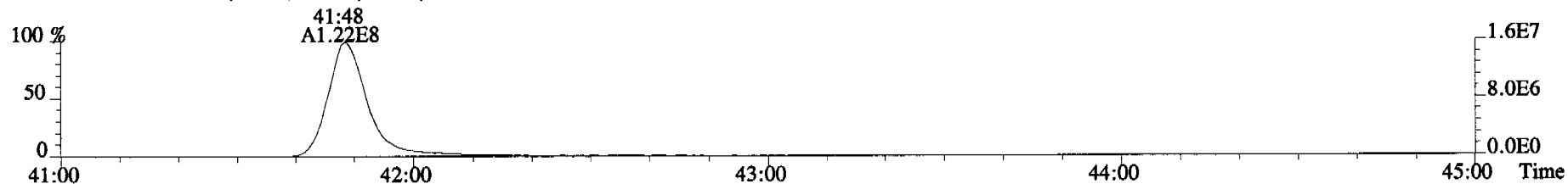
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Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



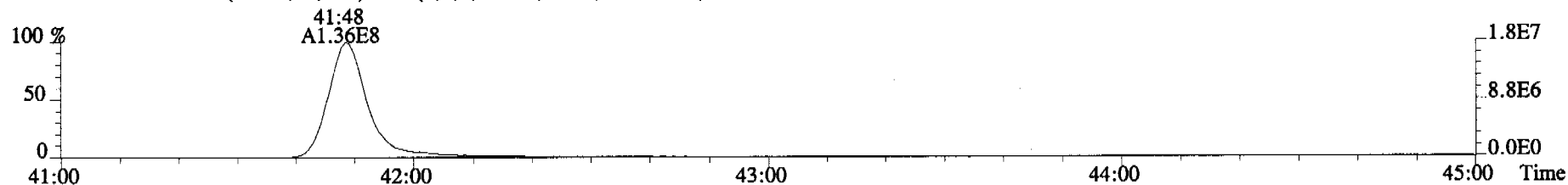
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



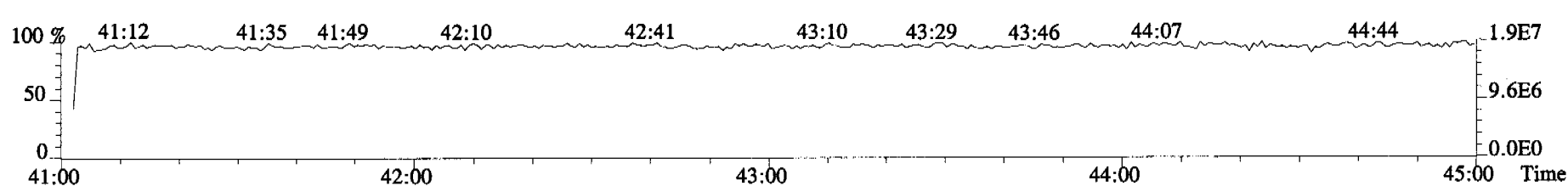
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



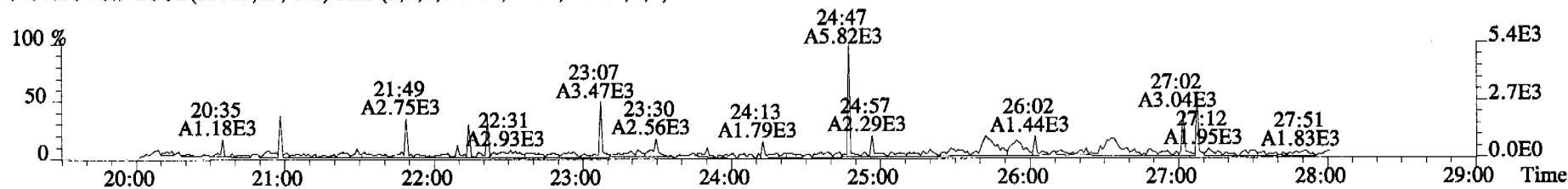
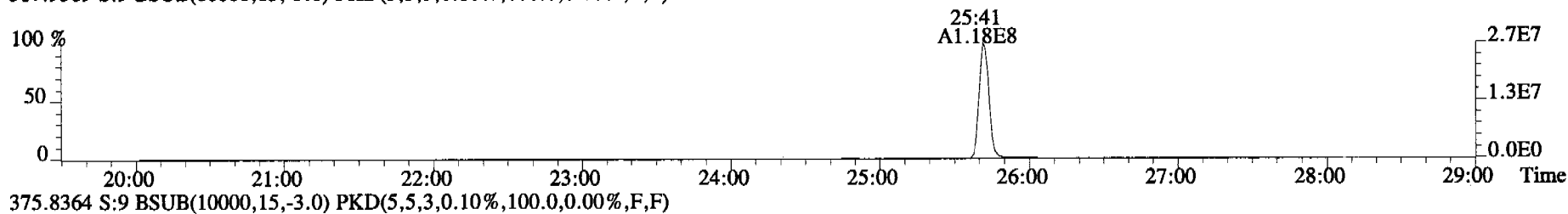
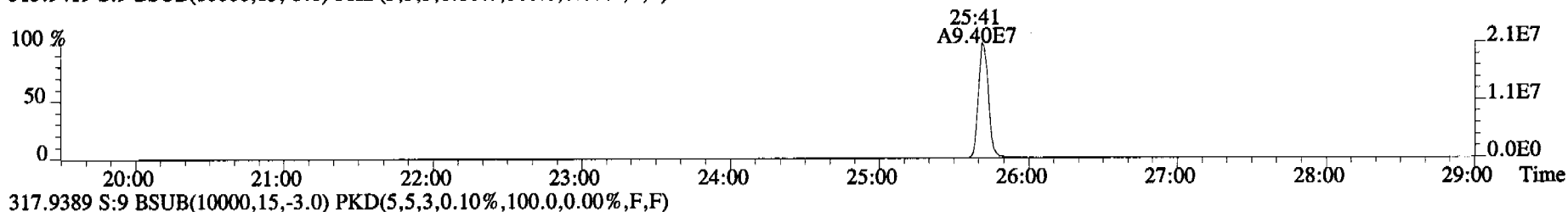
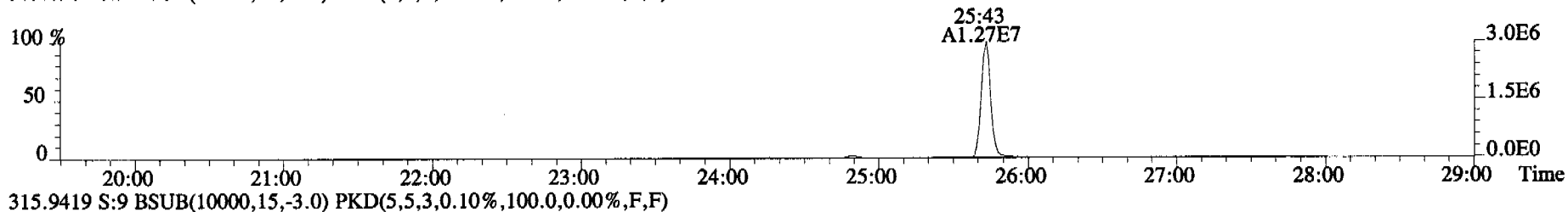
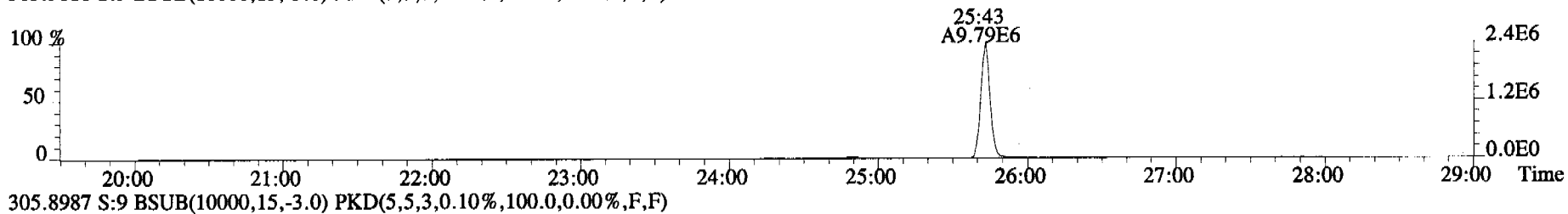
471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



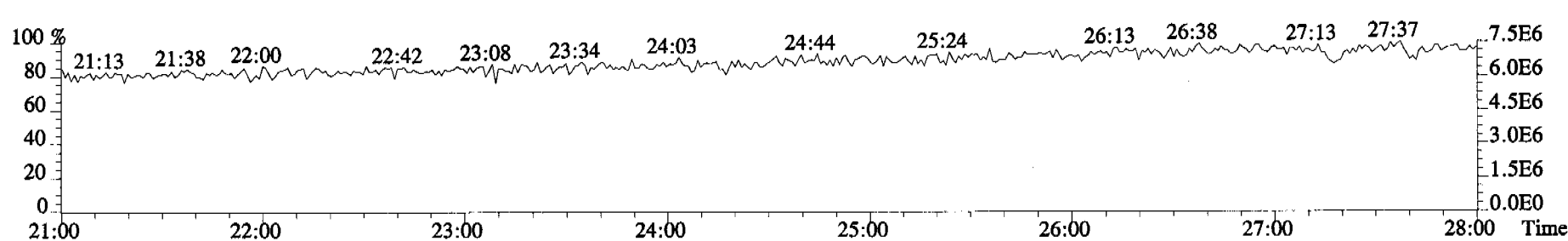
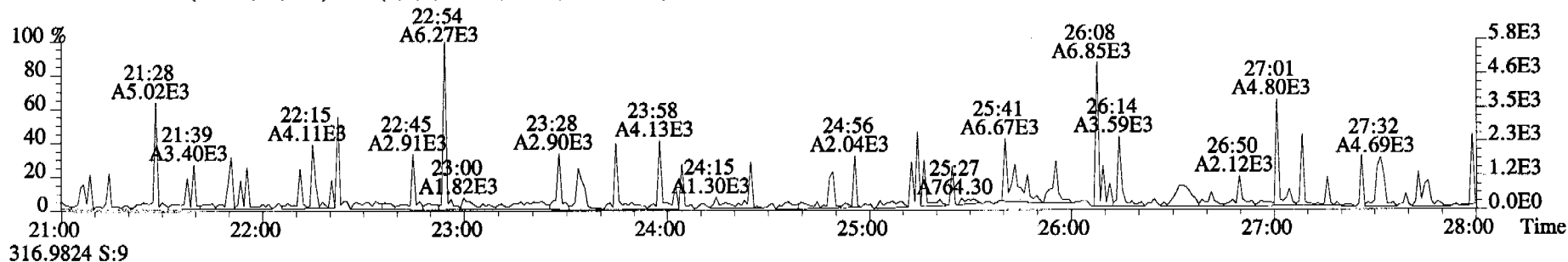
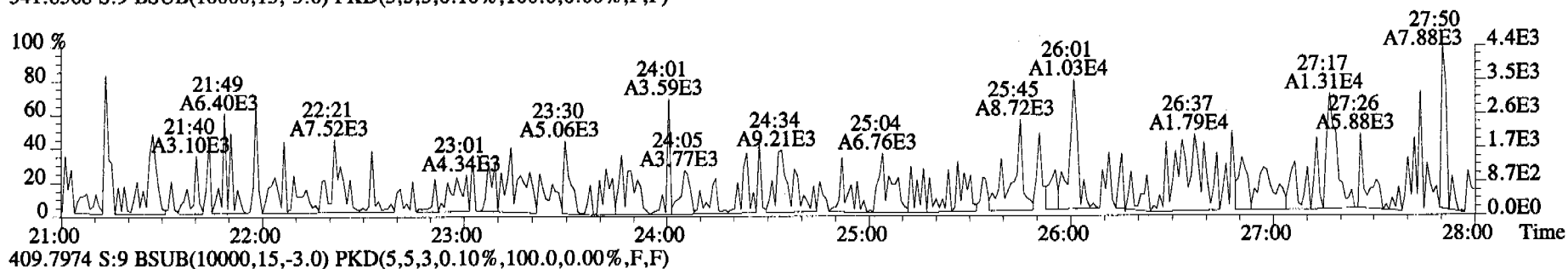
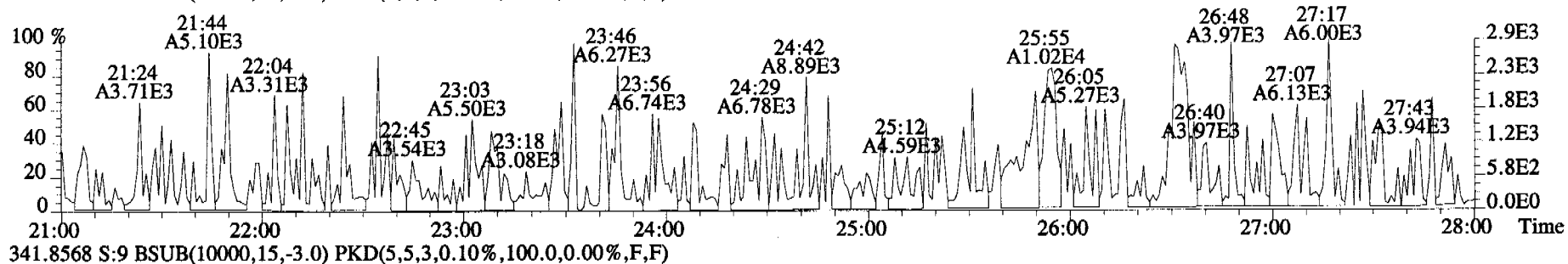
454.9728 S:9 F:5



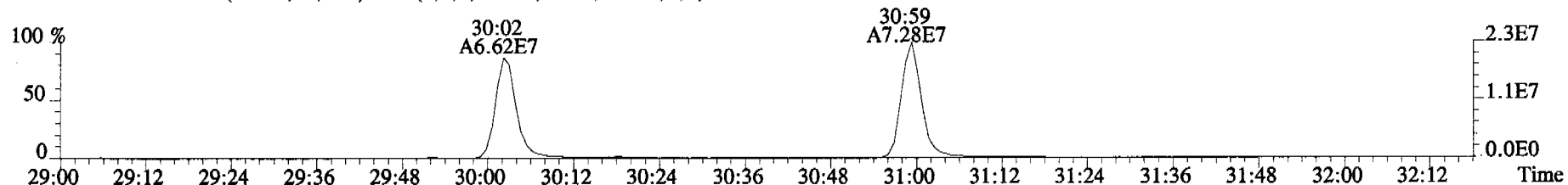
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



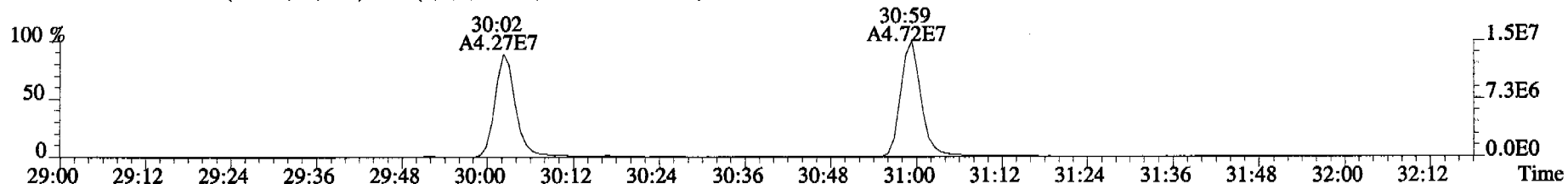
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
339.8597 S:9 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



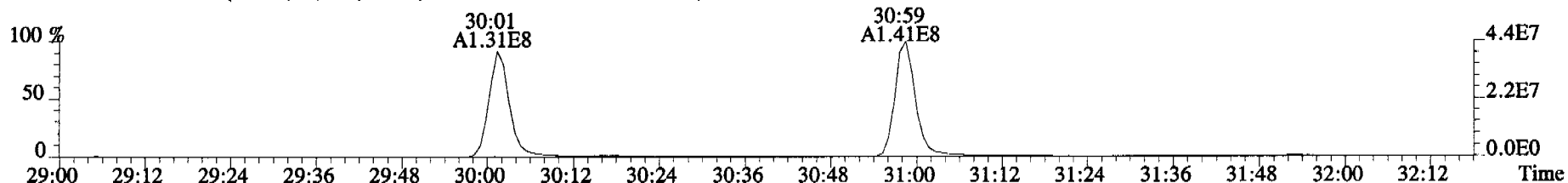
File:060322C1 #1-316 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



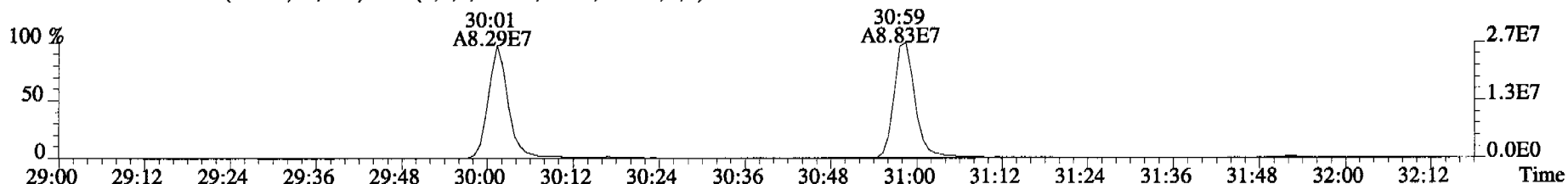
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



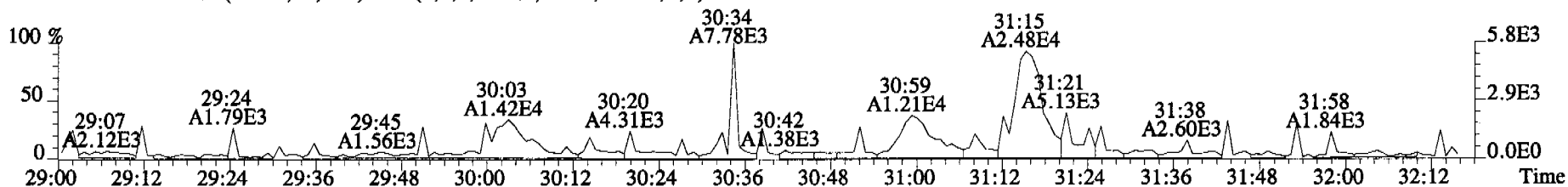
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



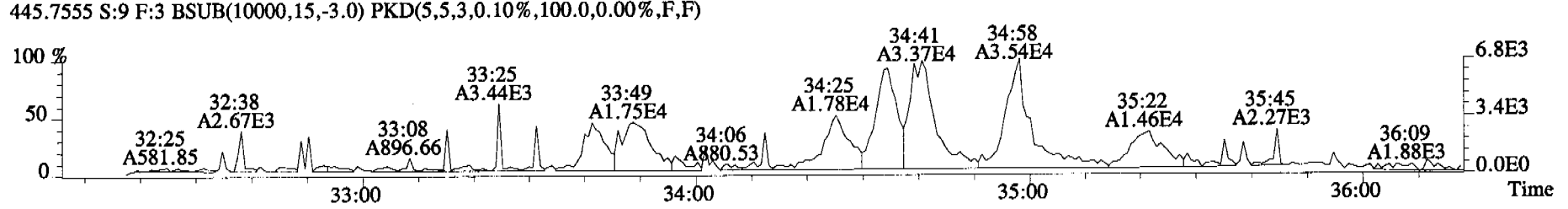
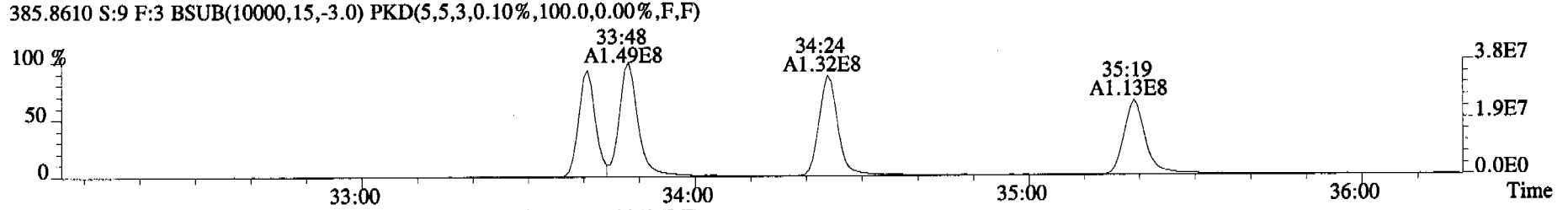
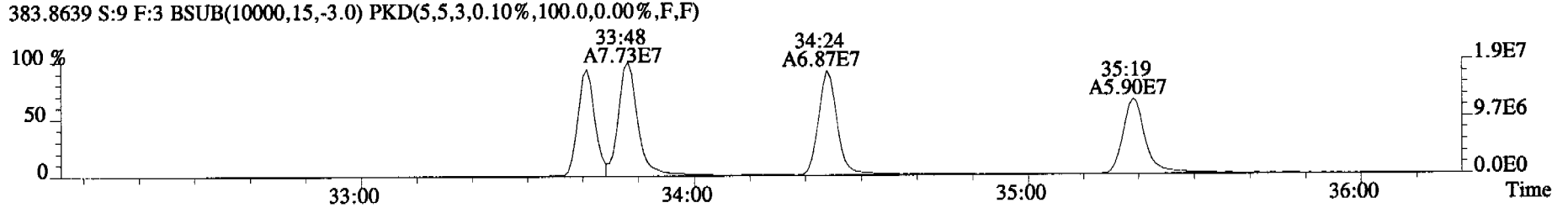
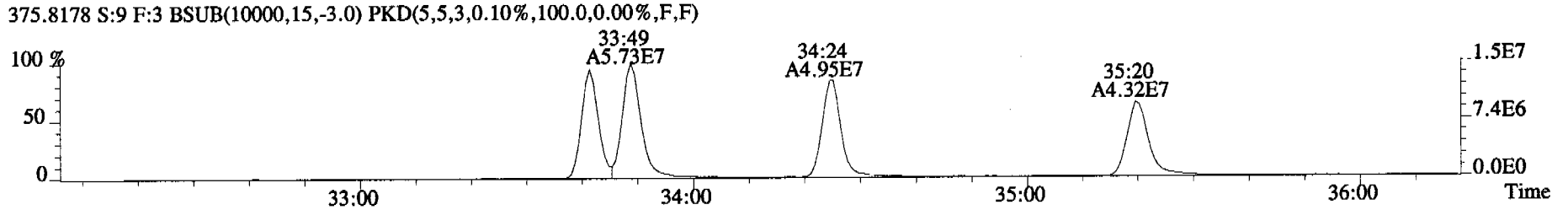
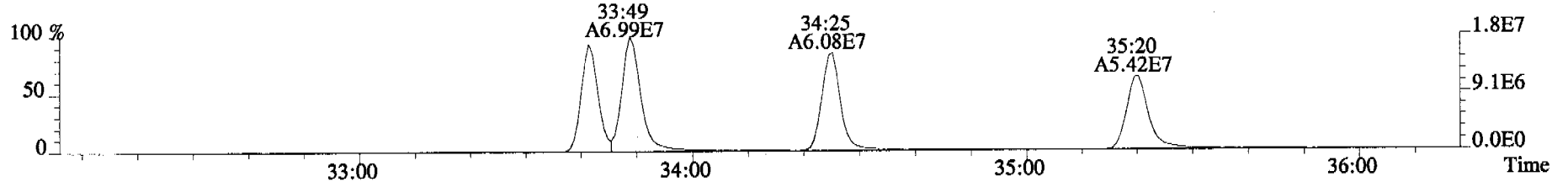
353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



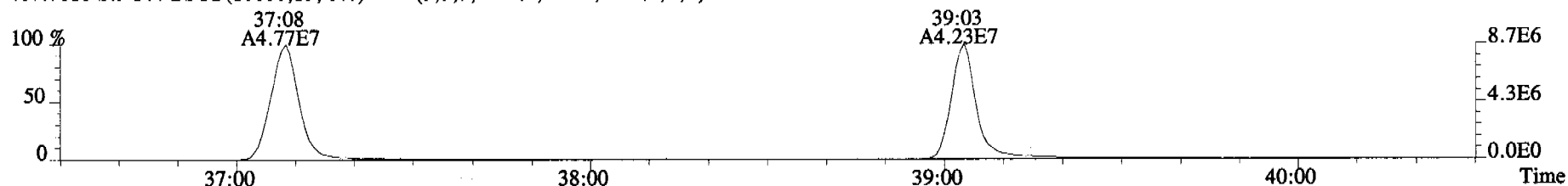
409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



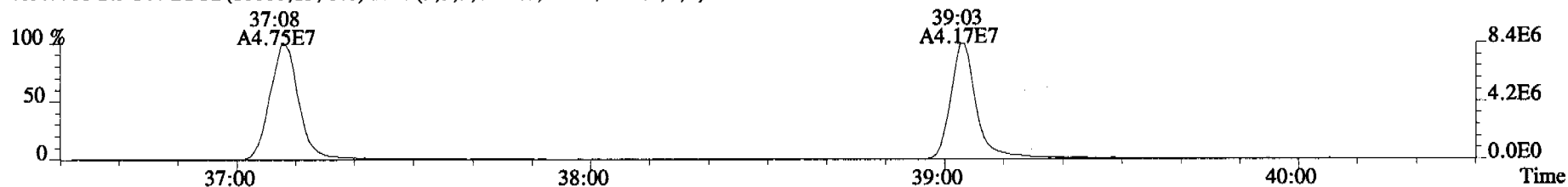
File:060322C1 #1-377 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



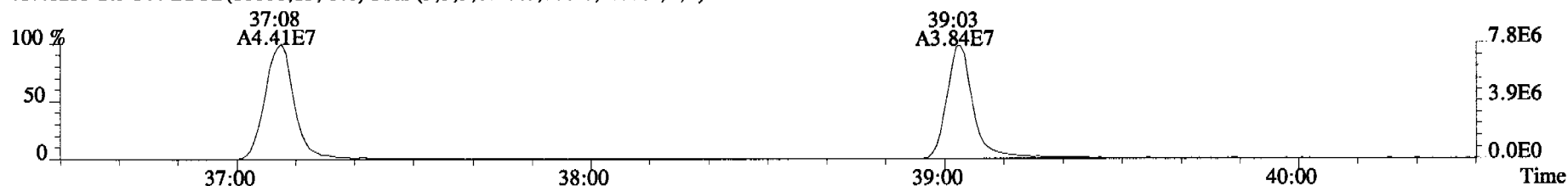
File:060322C1 #1-400 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



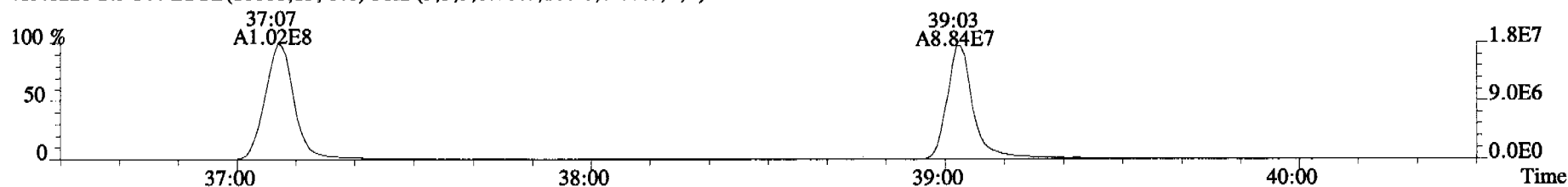
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



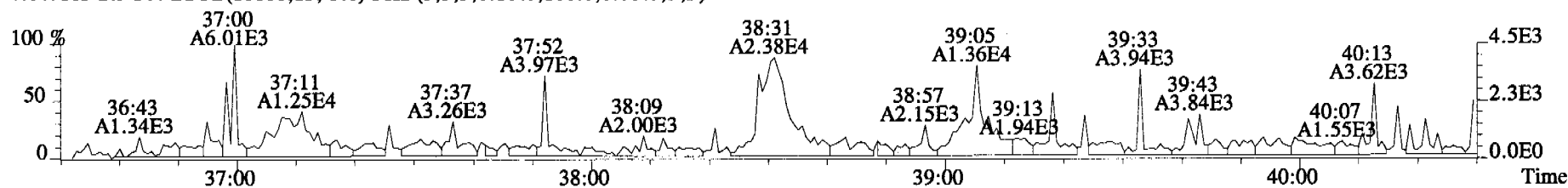
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



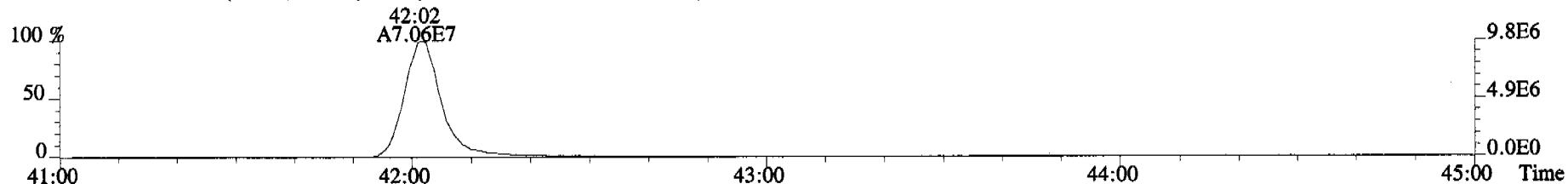
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



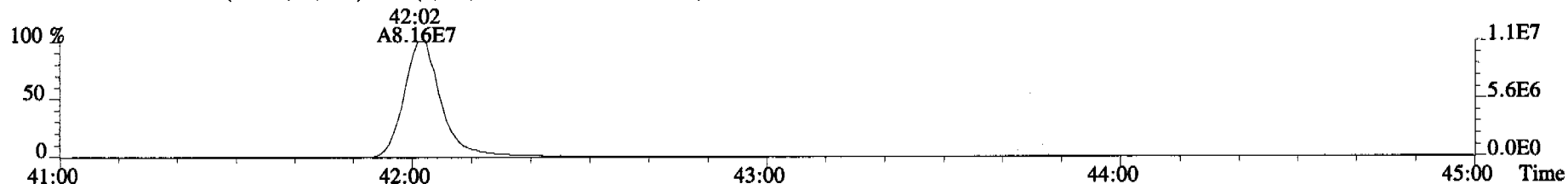
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



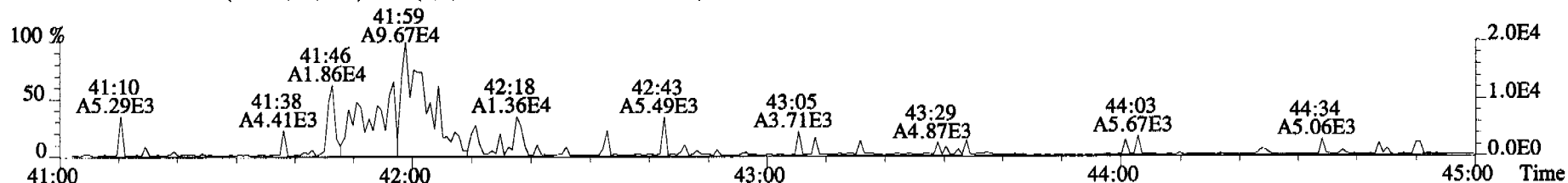
File:060322C1 #1-345 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



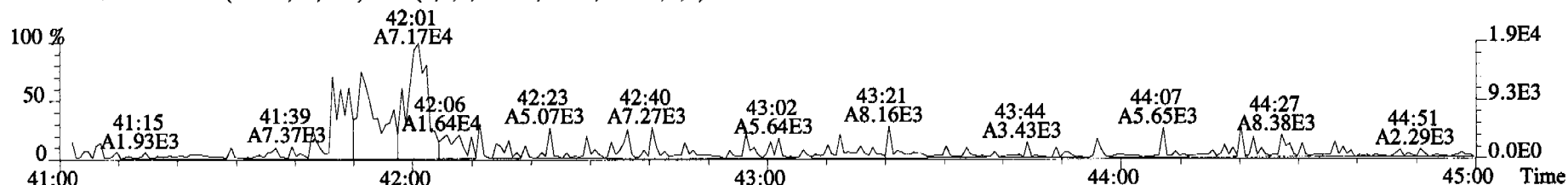
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



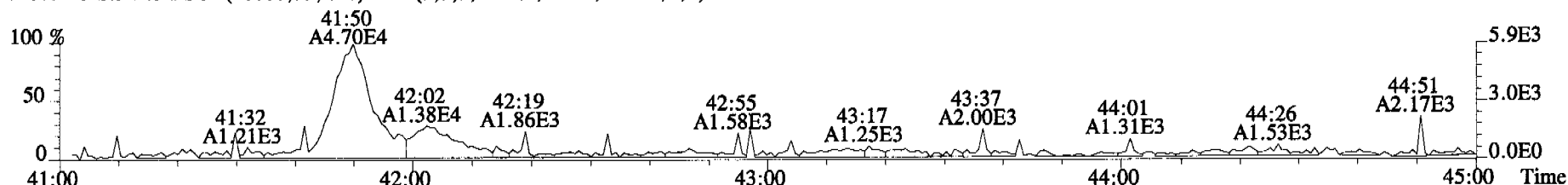
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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 14:29

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**  
IPI1291-01

**CLIENT ID**  
PT-INF2

**MATRIX**  
Water

Reviewed By:



**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: IPI1291

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 |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                          |           |         |           |                 |               |                 |                |               |                 |
| Iron   | EPA 200.7 | 6118075 | 0.015     | 0.040           | <b>0.66</b>   | 1               | 09/18/06       | 09/20/06      |                 |
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                          |           |         |           |                 |               |                 |                |               |                 |
| Antimony                                       | EPA 200.8 | 6118070 | 0.050     | 2.0             | <b>0.36</b>   | 1               | 09/18/06       | 09/18/06      | J               |
| Arsenic  | EPA 200.7 | 6118075 | 4.4       | 5.0             | <b>5.4</b>    | 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             | <b>0.045</b>  | 1               | 09/18/06       | 09/18/06      | J               |
| 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             | <b>1.4</b>    | 1               | 09/19/06       | 09/20/06      | B, J            |
| Lead   | EPA 200.8 | 6118070 | 0.040     | 1.0             | <b>0.65</b>   | 1               | 09/18/06       | 09/18/06      | J               |
| Manganese                                      | EPA 200.7 | 6118075 | 7.0       | 20              | <b>170</b>    | 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             | <b>0.39</b>   | 1               | 09/18/06       | 09/18/06      | J               |
| Silver   | EPA 200.8 | 6118070 | 0.025     | 1.0             | <b>0.025</b>  | 1               | 09/18/06       | 09/18/06      | J               |
| Thallium                                       | EPA 200.8 | 6118070 | 0.15      | 1.0             | ND            | 1               | 09/18/06       | 09/18/06      |                 |
| Zinc   | EPA 200.7 | 6118075 | 15        | 20              | <b>16</b>     | 1               | 09/18/06       | 09/20/06      | J               |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1291

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

## DISSOLVED METALS

| Analyte  | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                  |                |         |           |                 |               |                 |                |               |                 |
| Iron   | EPA 200.7-Diss | 6115121 | 0.015     | 0.040           | ND            | 1               | 09/15/06       | 09/23/06      |                 |
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water)</b>         |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                  |                |         |           |                 |               |                 |                |               |                 |
| Antimony   | EPA 200.8-Diss | 6118073 | 0.050     | 2.0             | <b>0.42</b>   | 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             | <b>0.042</b>  | 1               | 09/18/06       | 09/18/06      | J               |
| 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             | <b>1.6</b>    | 1               | 09/18/06       | 09/18/06      | B, J            |
| Lead   | EPA 200.8-Diss | 6118073 | 0.040     | 1.0             | <b>0.055</b>  | 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              | <b>2.0</b>    | 1               | 09/15/06       | 09/23/06      | J               |
| Selenium   | EPA 200.8-Diss | 6118073 | 0.30      | 2.0             | <b>0.54</b>   | 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1291

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

## INORGANICS

| Analyte  | Method       | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water) - cont.</b> |              |         |           |                 |               |                 |                |               |                 |
| Reporting Units: g/cc                                  |              |         |           |                 |               |                 |                |               |                 |
| Density  | Displacement | 6I22108 | N/A       | NA              | 1.0           | 1               | 09/22/06       | 09/22/06      |                 |
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water)</b>         |              |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                  |              |         |           |                 |               |                 |                |               |                 |
| Sediment   | ASTM D3977   | 6I25082 | 10        | 10              | 22            | 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             | 140           | 1               | 09/20/06       | 09/20/06      |                 |
| Ammonia-N (Distilled)                                  | EPA 350.2    | 6I16057 | 0.30      | 0.50            | ND            | 1               | 09/16/06       | 09/16/06      |                 |
| Hardness (as CaCO3)                                    | SM2340B      | 6I18075 | 1.0       | 1.0             | 180           | 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            | ND            | 1               | 09/14/06       | 09/15/06      |                 |
| Nitrate/Nitrite-N                                      | EPA 300.0    | 6I14139 | 0.080     | 0.15            | ND            | 1               | 09/14/06       | 09/15/06      |                 |
| Oil & Grease   | EPA 413.1    | 6I16001 | 0.90      | 4.8             | ND            | 1               | 09/16/06       | 09/16/06      |                 |
| Sulfate  | EPA 300.0    | 6I15041 | 2.2       | 2.5             | 84            | 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    | 6I20145 | 0.50      | 1.0             | 10            | 1               | 09/20/06       | 09/20/06      |                 |
| Total Suspended Solids                                 | EPA 160.2    | 6I20128 | 10        | 10              | 22            | 1               | 09/20/06       | 09/20/06      |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1291

Sampled: 09/14/06  
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## INORGANICS

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: NTU</b>                            |           |         |           |                 |               |                 |                |               |                 |
| <b>Turbidity</b>                                       | EPA 180.1 | 6I15115 | 0.040     | 1.0             | <b>8.8</b>    | 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 |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: pH Units</b>                       |           |         |           |                 |               |                 |                |               |                 |
| <b>pH</b>  | EPA 150.1 | 6I15082 | N/A       | NA              | <b>7.89</b>   | 1               | 09/15/06       | 09/15/06      |                 |

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 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: IPI1291

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

## INORGANICS

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: IPI1291-01 (PT-INF2 - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: umhos/cm                              |           |         |           |                 |               |                 |                |               |                 |
| Specific Conductance                                   | EPA 120.1 | 6I15074 | N/A       | 1.0             | 590           | 1               | 09/15/06       | 09/15/06      |                 |

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## SHORT HOLD TIME DETAIL REPORT

| Sample ID: PT-INF2 (IPI1291-01) - Water | Hold Time<br>(in days) | Date/Time<br>Sampled | Date/Time<br>Received | Date/Time<br>Extracted | Date/Time<br>Analyzed |
|---|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| EPA 150.1                               | 1                      | 09/14/2006 08:00     | 09/14/2006 18:15      | 09/15/2006 09:25       | 09/15/2006 10:45      |
| EPA 180.1                               | 2                      | 09/14/2006 08:00     | 09/14/2006 18:15      | 09/15/2006 14:00       | 09/15/2006 15:35      |
| EPA 300.0                               | 2                      | 09/14/2006 08:00     | 09/14/2006 18:15      | 09/14/2006 21:00       | 09/15/2006 00:10      |
| Filtration                              | 1                      | 09/14/2006 08:00     | 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 |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I15062 Extracted: 09/15/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15062-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15062-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.40   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15062-MS1)</b>      |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.20   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 102  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15062-MSD1)</b> |        |                 |       |       |             |                           |      |             |     |           |                 |
|   |        |                 |       |       |             | <b>Source: IPI1162-01</b> |      |             |     |           |                 |
| Mercury   | 8.24   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 103  | 70-130      | 1   | 20        |                 |
| <b>Batch: 6I18070 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18070-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| 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  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18070-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| 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 Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18070 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18070-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1353-01</b> |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18070-MS2)</b>      |        |                 |       |       |             | <b>Source: IPI1353-02</b> |      |             |     |           |                 |
| 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      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18070-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1353-01</b> |      |             |     |           |                 |
| 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        |                 |
| <b>Batch: 6I18075 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I18075-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| 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 | Limit  | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I18075 Extracted: 09/18/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I18075-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS1) Source: IPI1294-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I18075-MS2) Source: IPI1298-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I18075-MSD1) Source: IPI1294-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I19133 Extracted: 09/19/06</b>                   |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I19133-BLK1)</b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| Copper  | 1.73   | 2.0             | 0.25 | ug/l  |             |                           |      |             |     |           | J               |
| <b>LCS Analyzed: 09/20/2006 (6I19133-BS1)</b>               |        |                 |      |       |             |                           |      |             |     |           |                 |
| Copper  | 80.8   | 2.0             | 0.25 | ug/l  | 80.0        |                           | 101  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I19133-MS1)</b>      |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1286-01</b> |      |             |     |           |                 |
| Copper  | 77.1   | 2.0             | 0.25 | ug/l  | 80.0        | 0.82                      | 95   | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I19133-MSD1)</b> |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: IPI1286-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I15121 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/23/2006 (6I15121-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/23/2006 (6I15121-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/23/2006 (6I15121-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/23/2006 (6I15121-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |
|---|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                                 |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18073-BLK1)</b>                          |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18073-BS1)</b>                             |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS1) Source: IPI1226-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18073-MS2) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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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Project ID: Boeing-SSFL BMP/NPDES  
 R-2A Pond Pilot Test  
 Report Number: IPI1291

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 Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I18073 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18073-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1226-01</b> |      |             |     |           |                 |
| 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        |                 |
| <b>Batch: 6I18082 Extracted: 09/18/06</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/18/2006 (6I18082-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | ND     | 0.20            | 0.15  | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/18/2006 (6I18082-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Mercury   | 8.42   | 0.20            | 0.15  | ug/l  | 8.00        |                           | 105  | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 09/18/2006 (6I18082-MS1)</b>      |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| Mercury   | 8.28   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 104  | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/18/2006 (6I18082-MSD1)</b> |        |                 |       |       |             | <b>Source: IPI1321-01</b> |      |             |     |           |                 |
| Mercury   | 8.17   | 0.20            | 0.15  | ug/l  | 8.00        | ND                        | 102  | 70-130      | 1   | 20        |                 |

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 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 6I14139 Extracted: 09/14/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/14/2006 (6I14139-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| 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  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/14/2006 (6I14139-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/14/2006 (6I14139-MS1) Source: IPI1286-01</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/14/2006 (6I14139-MSD1) Source: IPI1286-01</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| 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        |                 |
| <b>Batch: 6I15041 Extracted: 09/15/06</b>                                      |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15041-BLK1)</b>                               |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | ND     | 0.50            | 0.45  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15041-BS1)</b>                                  |        |                 |       |       |             |               |           |        |     |           |                 |
| Sulfate  | 10.1   | 0.50            | 0.45  | mg/l  | 10.0        |               | 101       | 90-110 |     |           |                 |
| <b>Matrix Spike Analyzed: 09/15/2006 (6I15041-MS1) Source: IPI1302-02</b>      |        |                 |       |       |             |               |           |        |     |           |                 |
| 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 |
|---|--------|-----------------|-----|----------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 6I15041 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/15/2006 (6I15041-MSD1)</b> |        |                 |     |          |             | <b>Source: IPI1302-02</b> |      |             |     |           |                 |
| Sulfate   | 184    | 2.5             | 2.2 | mg/l     | 10.0        | 180                       | 40   | 80-120      | 1   | 20        | M-HA            |
| <b>Batch: 6I15073 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15073-BLK1)</b>            |        |                 |     |          |             |                           |      |             |     |           |                 |
| Total Dissolved Solids                                      | ND     | 10              | 10  | mg/l     |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 09/15/2006 (6I15073-BS1)</b>               |        |                 |     |          |             |                           |      |             |     |           |                 |
| Total Dissolved Solids                                      | 1000   | 10              | 10  | mg/l     | 1000        |                           | 100  | 90-110      |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15073-DUP1)</b>        |        |                 |     |          |             | <b>Source: IPI1076-01</b> |      |             |     |           |                 |
| Total Dissolved Solids                                      | 1480   | 10              | 10  | mg/l     |             | 1500                      |      |             | 1   | 10        |                 |
| <b>Batch: 6I15074 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15074-DUP1)</b>        |        |                 |     |          |             | <b>Source: IPI1120-01</b> |      |             |     |           |                 |
| Specific Conductance  | 1820   | 1.0             | N/A | umhos/cm |             | 1800                      |      |             | 1   | 5         |                 |
| <b>Batch: 6I15082 Extracted: 09/15/06</b>                   |        |                 |     |          |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP1)</b>        |        |                 |     |          |             | <b>Source: IPI1268-01</b> |      |             |     |           |                 |
| pH  | 6.87   | NA              | N/A | pH Units |             | 6.85                      |      |             | 0   | 5         |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15082-DUP2)</b>        |        |                 |     |          |             | <b>Source: IPI1293-01</b> |      |             |     |           |                 |
| 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 |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b><u>Batch: 6I15115 Extracted: 09/15/06</u></b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/15/2006 (6I15115-BLK1)</b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| Turbidity  | ND     | 1.0             | 0.040 | NTU   |             |               |           |        |     |           |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP1)</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| Turbidity  | 3.33   | 1.0             | 0.040 | NTU   |             | 3.4           |           |        | 2   | 20        |                 |
| <b>Duplicate Analyzed: 09/15/2006 (6I15115-DUP2)</b> |        |                 |       |       |             |               |           |        |     |           |                 |
| Turbidity  | 1.63   | 1.0             | 0.040 | NTU   |             | 1.6           |           |        | 2   | 20        |                 |
| <b><u>Batch: 6I16001 Extracted: 09/16/06</u></b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16001-BLK1)</b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| Oil & Grease   | ND     | 5.0             | 0.94  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16001-BS1)</b>        |        |                 |       |       |             |               |           |        |     |           |                 |
| Oil & Grease   | 17.9   | 5.0             | 0.94  | mg/l  | 20.0        |               | 90        | 65-120 |     |           | M-NRI           |
| <b>LCS Dup Analyzed: 09/16/2006 (6I16001-BSD1)</b>   |        |                 |       |       |             |               |           |        |     |           |                 |
| Oil & Grease   | 18.1   | 5.0             | 0.94  | mg/l  | 20.0        |               | 90        | 65-120 | 1   | 20        |                 |
| <b><u>Batch: 6I16057 Extracted: 09/16/06</u></b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 09/16/2006 (6I16057-BLK1)</b>     |        |                 |       |       |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                | ND     | 0.50            | 0.30  | mg/l  |             |               |           |        |     |           |                 |
| <b>LCS Analyzed: 09/16/2006 (6I16057-BS1)</b>        |        |                 |       |       |             |               |           |        |     |           |                 |
| Ammonia-N (Distilled)                                | 10.9   | 0.50            | 0.30  | mg/l  | 10.0        |               | 109       | 80-115 |     |           |                 |

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Project ID: Boeing-SSFL BMP/NPDES  
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 Report Number: IPI1291

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

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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 |
|--|--------|-----------------|------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I20101 Extracted: 09/20/06</u></b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>LCS Dup Analyzed: 09/20/2006 (6I20101-BSD1)</b>                             |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 19.9   | 0.50            | 0.43 | mg/l  | 20.0        |               | 100  | 85-120      | 2   | 15        |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20101-MS1) Source: IPI1210-01</b>      |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 10.6   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84          | 98   | 85-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20101-MSD1) Source: IPI1210-01</b> |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Kjeldahl Nitrogen  | 11.2   | 0.50            | 0.43 | mg/l  | 10.0        | 0.84          | 104  | 85-120      | 6   | 15        |                 |
| <b><u>Batch: 6I20128 Extracted: 09/20/06</u></b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20128-BLK2)</b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | ND     | 10              | 10   | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20128-BS2)</b>                                  |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | 1040   | 10              | 10   | mg/l  | 1000        |               | 104  | 85-115      |     |           |                 |
| <b>Duplicate Analyzed: 09/20/2006 (6I20128-DUP2) Source: IPI1285-02</b>        |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Suspended Solids   | 2270   | 10              | 10   | mg/l  |             | 2100          |      |             | 8   | 10        |                 |
| <b><u>Batch: 6I20145 Extracted: 09/20/06</u></b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 09/20/2006 (6I20145-BLK1)</b>                               |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Organic Carbon   | ND     | 1.0             | 0.25 | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 09/20/2006 (6I20145-BS1)</b>                                  |        |                 |      |       |             |               |      |             |     |           |                 |
| Total Organic Carbon   | 10.7   | 1.0             | 0.25 | mg/l  | 10.0        |               | 107  | 90-110      |     |           |                 |

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: IPI1291

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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 6I20145 Extracted: 09/20/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 09/20/2006 (6I20145-MS1)</b>      |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.34   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 97   | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 09/20/2006 (6I20145-MSD1)</b> |        |                 |      |       |             | <b>Source: IPI1211-01</b> |      |             |     |           |                 |
| Total Organic Carbon  | 6.52   | 1.0             | 0.25 | mg/l  | 5.00        | 1.5                       | 100  | 80-120      | 3   | 20        |                 |
| <b><u>Batch: 6I22108 Extracted: 09/22/06</u></b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Duplicate Analyzed: 09/22/2006 (6I22108-DUP1)</b>        |        |                 |      |       |             | <b>Source: IPI0964-02</b> |      |             |     |           |                 |
| Density   | 0.999  | NA              | N/A  | g/cc  |             | 1.0                       |      |             | 0   | 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: IPI1291

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

## 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  
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: IPI1291

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

## 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](http://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: IPI1291-01

### TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin  
 Project Manager

IPL 129

| Client Name/Address:  |               | Project:   |            | ANALYSIS REQUIRED  |   |                      |                            |                         |  |                              |  |  |                                | Field readings:  |          |   |
|---|---------------|--|------------|--|---|----------------------|----------------------------|-------------------------|--|------------------------------|--|--|--------------------------------|--|----------|---|
| MWH-Pasadena<br>300 North Lake Avenue, Suite 1200<br>Pasadena, CA 91101 |               | Boeing-SSFL BMP/NPDES<br>R-2A Pond Filtration Pilot Test |            | Total Recoverable Metals<br>As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness | Alkalinity, Suspended Sediments Concentration (ASTM Method) | Total Organic Carbon | Oil & Grease (EPA 413 1)   | Total Kjeldhal Nitrogen | SO <sub>4</sub> , NO <sub>3</sub> +NO <sub>2</sub> -N, Nitrate-N, Nitrite-N (NO <sub>3</sub> + NO <sub>2</sub> -N) | Turbidity, TSS, Conductivity | Ammonia-N (NH <sub>3</sub> -N)   | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn | TCDD (and all congeners)       | Temp = 68  |          |   |
| Sample Description  | Sample Matrix | Container Type   | # of Cont. | Sampling Date/Time   | Preservative  | Bottle #             | Total Dissolved Solids, pH | Total Organic Carbon    | Oil & Grease (EPA 413 1)   | Total Kjeldhal Nitrogen      | SO <sub>4</sub> , NO <sub>3</sub> +NO <sub>2</sub> -N, Nitrate-N, Nitrite-N (NO <sub>3</sub> + NO <sub>2</sub> -N) | Turbidity, TSS, Conductivity   | Ammonia-N (NH <sub>3</sub> -N) | Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn | Comments |   |
| PT-INF2   | W             | Poly-1L  | 1          | 9-14-06 08:00  | HNO3  | 1                    | X                          |                         |  |                              |  |  |                                |  |          |   |
| PT-INF2   | W             | Poly-1L  | 1          |  | None  | 2                    | X                          |                         |  |                              |  |  |                                |  |          |   |
| PT-INF2   | W             | VOAs   | 2          |  | HCl   | 3A, 3B               |                            | X                       |  |                              |  |  |                                |  |          |   |
| PT-INF2   | W             | 1L Amber   | 2          |  | HCl   | 4A, 4B               |                            | X                       |  |                              |  |  |                                |  |          |   |
| PT-INF2   | W             | Poly-500 ml  | 1          |  | H2SO4   | 5                    |                            |                         | X  |                              |  |  |                                |  |          |   |
| PT-INF2   | W             | Poly-500 ml  | 1          |  | None  | 6                    |                            |                         |  | X                            |  |  |                                |  |          |   |
| PT-INF2   | W             | Poly-500 ml  | 2          |  | None  | 7A, 7B               |                            |                         |  | X                            |  |  |                                |  |          |   |
| PT-INF2   | W             | Poly-500 ml  | 1          |  | H2SO4   | 8                    |                            |                         |  |                              |  |  |                                |  |          |   |
| PT-INF2   | W             | Poly-1L  | 1          |  | None  | 9                    |                            |                         |  |                              |  |  |                                | X  |          |   |
| PT-INF2   | W             | 1L Amber   | 2          | 9-14-06 08:00  | None  | 10A, 10B             |                            |                         |  |                              |  |  |                                | X  |          |   |
| Relinquished By   |               |  |            | 9-14-06  |   |                      |                            |                         |  |                              |  |  |                                |  |          | Turn around Time: (check)<br>24 Hours _____ 5 Days _____<br>48 Hours _____ 10 Days _____<br>72 Hours _____ Normal _____ |
| Received By   |               |  |            | 1500   |   |                      |                            |                         |  |                              |  |  |                                |  |          | Metals Only 72 Hours _____<br>Sample Integrity: (Check) On Ice: _____   |
| Relinquished By   |               |  |            | 9-14-06 1815   |   |                      |                            |                         |  |                              |  |  |                                |  |          | Intact _____  |
| Received By   |               |  |            |  |   |                      |                            |                         |  |                              |  |  |                                |  |          |   |

Received By: *[Signature]* Date/Time: 9-14-06 1500  
 Received By: *[Signature]* Date/Time: 9-14-06 1815  
 Received By: *[Signature]* Date/Time: 9/14/06 1815  
 On Ice: *[Signature]*



September 21, 2006

**Alta Project I.D.: 28112**

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 "IPI1291". 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](mailto: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**

28112-001

IPI1291-01

## 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 <sup>a</sup> | EMPC <sup>b</sup> | Qualifiers  | Labeled Standard                              | %R                  | LCL-UCL <sup>d</sup> | Qualifiers            |    |
| 2,3,7,8-TCDD        | ND           | 0.00000120      |                   |             | <b>IS</b> 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      |                   |             | <b>CRS</b> 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 14:48

| 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 | <b>IS</b> 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   | <b>CRS</b> 37Cl-2,3,7,8-TCDD | 81.1      | 35 - 197              |    |

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:48

| Sample ID: IPI1291-01 |                     |                 |                   |            | EPA Method 1613                               |           |                       |            |
|-----------------------|---------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data           |                     |                 | Sample Data       |            | Laboratory Data                               |           |                       |            |
| Name:                 | Test America-Irvine |                 | Matrix:           | Aqueous    | Lab Sample:                                   | 28112-001 | Date Received:        | 16-Sep-06  |
| Project:              | IPI1291             |                 | Sample Size:      | 1.01 L     | QC Batch No.:                                 | 8381      | Date Extracted:       | 18-Sep-06  |
| Date Collected:       | 14-Sep-06           |                 |                   |            | Date Analyzed DB-5:                           | 20-Sep-06 | Date Analyzed DB-225: | NA         |
| Time Collected:       | 0800                |                 |                   |            |   |           |                       |            |
| Analyte               | Conc. (ug/L)        | DL <sup>a</sup> | EMPC <sup>b</sup> | Qualifiers | Labeled Standard                              | %R        | LCL-UCL <sup>d</sup>  | Qualifiers |
| 2,3,7,8-TCDD          | ND                  | 0.00000120      |                   |            | <b>IS</b> 13C-2,3,7,8-TCDD                    | 61.5      | 25 - 164              |            |
| 1,2,3,7,8-PeCDD       | ND                  | 0.00000228      |                   |            | 13C-1,2,3,7,8-PeCDD                           | 49.8      | 25 - 181              |            |
| 1,2,3,4,7,8-HxCDD     | ND                  | 0.00000237      |                   |            | 13C-1,2,3,4,7,8-HxCDD                         | 58.7      | 32 - 141              |            |
| 1,2,3,6,7,8-HxCDD     | ND                  | 0.00000237      |                   |            | 13C-1,2,3,6,7,8-HxCDD                         | 60.2      | 28 - 130              |            |
| 1,2,3,7,8,9-HxCDD     | ND                  | 0.00000229      |                   |            | 13C-1,2,3,4,6,7,8-HpCDD                       | 72.9      | 23 - 140              |            |
| 1,2,3,4,6,7,8-HpCDD   | 0.00000683          |                 |                   | J          | 13C-OCDD                                      | 64.4      | 17 - 157              |            |
| OCDD                  | 0.0000573           |                 |                   |            | 13C-2,3,7,8-TCDF                              | 62.9      | 24 - 169              |            |
| 2,3,7,8-TCDF          | ND                  | 0.00000153      |                   |            | 13C-1,2,3,7,8-PeCDF                           | 51.2      | 24 - 185              |            |
| 1,2,3,7,8-PeCDF       | ND                  | 0.00000208      |                   |            | 13C-2,3,4,7,8-PeCDF                           | 47.2      | 21 - 178              |            |
| 2,3,4,7,8-PeCDF       | ND                  | 0.00000198      |                   |            | 13C-1,2,3,4,7,8-HxCDF                         | 61.4      | 26 - 152              |            |
| 1,2,3,4,7,8-HxCDF     | ND                  | 0.000000863     |                   |            | 13C-1,2,3,6,7,8-HxCDF                         | 57.7      | 26 - 123              |            |
| 1,2,3,6,7,8-HxCDF     | ND                  | 0.000000828     |                   |            | 13C-2,3,4,6,7,8-HxCDF                         | 57.7      | 28 - 136              |            |
| 2,3,4,6,7,8-HxCDF     | ND                  | 0.00000109      |                   |            | 13C-1,2,3,7,8,9-HxCDF                         | 47.5      | 29 - 147              |            |
| 1,2,3,7,8,9-HxCDF     | ND                  | 0.00000158      |                   |            | 13C-1,2,3,4,6,7,8-HpCDF                       | 64.6      | 28 - 143              |            |
| 1,2,3,4,6,7,8-HpCDF   | ND                  | 0.00000252      |                   |            | 13C-1,2,3,4,7,8,9-HpCDF                       | 61.9      | 26 - 138              |            |
| 1,2,3,4,7,8,9-HpCDF   | ND                  | 0.00000113      |                   |            | 13C-OCDF                                      | 52.2      | 17 - 157              |            |
| OCDF                  | ND                  | 0.00000546      |                   |            | <b>CRS</b> 37Cl-2,3,7,8-TCDD                  | 72.6      | 35 - 197              |            |
| Totals                |                     |                 |                   |            | Footnotes                                     |           |                       |            |
| Total TCDD            | ND                  | 0.00000120      |                   |            | a. Sample specific estimated detection limit. |           |                       |            |
| Total PeCDD           | ND                  | 0.00000588      |                   |            | b. Estimated maximum possible concentration.  |           |                       |            |
| Total HxCDD           | ND                  | 0.00000462      |                   |            | c. Method detection limit.                    |           |                       |            |
| Total HpCDD           | 0.0000143           |                 |                   |            | d. Lower control limit - upper control limit. |           |                       |            |
| Total TCDF            | ND                  | 0.00000257      |                   |            |   |           |                       |            |
| Total PeCDF           | ND                  | 0.00000203      |                   |            |   |           |                       |            |
| Total HxCDF           | ND                  | 0.00000118      |                   |            |   |           |                       |            |
| Total HpCDF           | ND                  | 0.00000288      |                   |            |   |           |                       |            |

Analyst: MAS

Approved By: William J. Luksemburg 21-Sep-2006 14:48

## **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

| <b>Accrediting Authority</b>                | <b>Certificate Number</b> |
|---|---------------------------|
| 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 # IPI1291 28112, 0.1°C

### 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: IPI1291-01<br>1613-Dioxin-HR-Alta | Water<br>09/21/06 08:00 | Sampled: 09/14/06 08:00<br>J flags, 17 cngnrs, no TEQ, ug/L, sub=Alta, Boeing EDD |

### Containers Supplied:

- 1 L Amber (IPI1291-01M)
- 1 L Amber (IPI1291-01N)

### 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°C

~~Released By~~ 9/15/06 Michael Bellant 9/16/06 0830  
~~Date~~ ~~Time~~ ~~Received By~~ ~~Date~~ ~~Time~~

Released By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

### SAMPLE LOG-IN CHECKLIST

Alta Project #: 28112

TAT Standard

|                     |   |   |   |
|---------------------|---|---|---|
| Samples Arrival:    | Date/Time<br><u>9/16/06 0830</u>          | Initials:<br><u>MT</u>                  | Location: <u>WR-2</u><br>Shelf/Rack: <u>N/A</u> |
| Logged In:          | Date/Time<br><u>9/16/06 0920</u>          | Initials:<br><u>FEB</u>                 | Location: <u>WR-2</u><br>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: DT-20                   |   |

|  | 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 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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented? |      |               | <u>None</u>   |
| Shipping Container   | Alta | <u>Client</u> | Retain        |
|  |      |               | <u>Return</u> |
|  |      |               | Dispose       |

Comments:

## **EXTRACTION INFORMATION**

**PROCESS SHEET**

Project No.-AR: 28112-1 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"/> | IPI1291-01 |             | 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:   Dry    
Project 28112





Project: 28112

# 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 <del>Q</del> 9/18/06 | TEH MOH 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"/> | 28112_8381_001 | ↓     | 1.012           | ↓                        | ↓                 | ↓            | ↓              | ↓            | ↓                  | ↓                |

|  |  |  |  |   |   |                               |
|--|--|--|--|---|---|-------------------------------|
| IS Name                                    | NS Name                                    | CRS Name                                   | RS Name                                    | Cycle Time                                | APP.: SEFUN SOX <u>SDS</u>                | Check Out:                    |
| PCDD/F <u>10µl 060110A</u> <sup>(V2)</sup> | PCDD/F <u>10µl 060110B</u> <sup>(V4)</sup> | PCDD/F <u>10µl 060110C</u> <sup>(V3)</sup> | PCDD/F <u>10µl 060110D</u> <sup>(V3)</sup> | 9/18<br>Start: 1230<br>9/19<br>Stop: 0430 | SOLV: <u>TOL</u>                          | Chemist: <u>TEH 9/18/06</u>   |
| PCB  | PCB  | PCB  | PCB  |   | Other: <u>SPE</u>                         | Check-In:                     |
| PAH  | PAH  | PAH  | PAH  |   | Final Volume(s): <u>2µl</u><br><u>C44</u> | Chemist: <u>Empty 9/18/06</u> |

Comments:

## **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.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL) |
|---------------------|----------------------|-----------------|---------------|------|----------------|-------------------------------|
|                     | FORMING<br>RATIO (1) | ABUND.<br>RATIO | LIMITS<br>(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)<br>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<br>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<br>FORMING<br>RATIO (1) | ION<br>ABUND.<br>RATIO | QC<br>LIMITS<br>(2) | Pass | CONC.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL)    |   |
|-------------------------|-------------------------------|------------------------|---------------------|------|----------------|----------------------------------|---|
| 13C-2,3,7,8-TCDD        | M/M+2                         | 0.78                   | 0.65-0.89           | y    | 99.0           | 82.0 - 121.0<br>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<br>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<br>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<br>76.0 - 131.0 (5) | (5) Contract-required concentration range, as specified<br>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<br>RT | ISOMERS                 | ABSOLUTE<br>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<br>Relative Retention Times (RRT)<br>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

| NATIVE ANALYTES     | M/Z'S            | ION             | QC        | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(ng/mL) |
|---------------------|------------------|-----------------|-----------|------|----------------|---------------------------|
|                     | FORMING<br>RATIO | ABUND.<br>RATIO | LIMITS    |      |                |                           |
| 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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(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

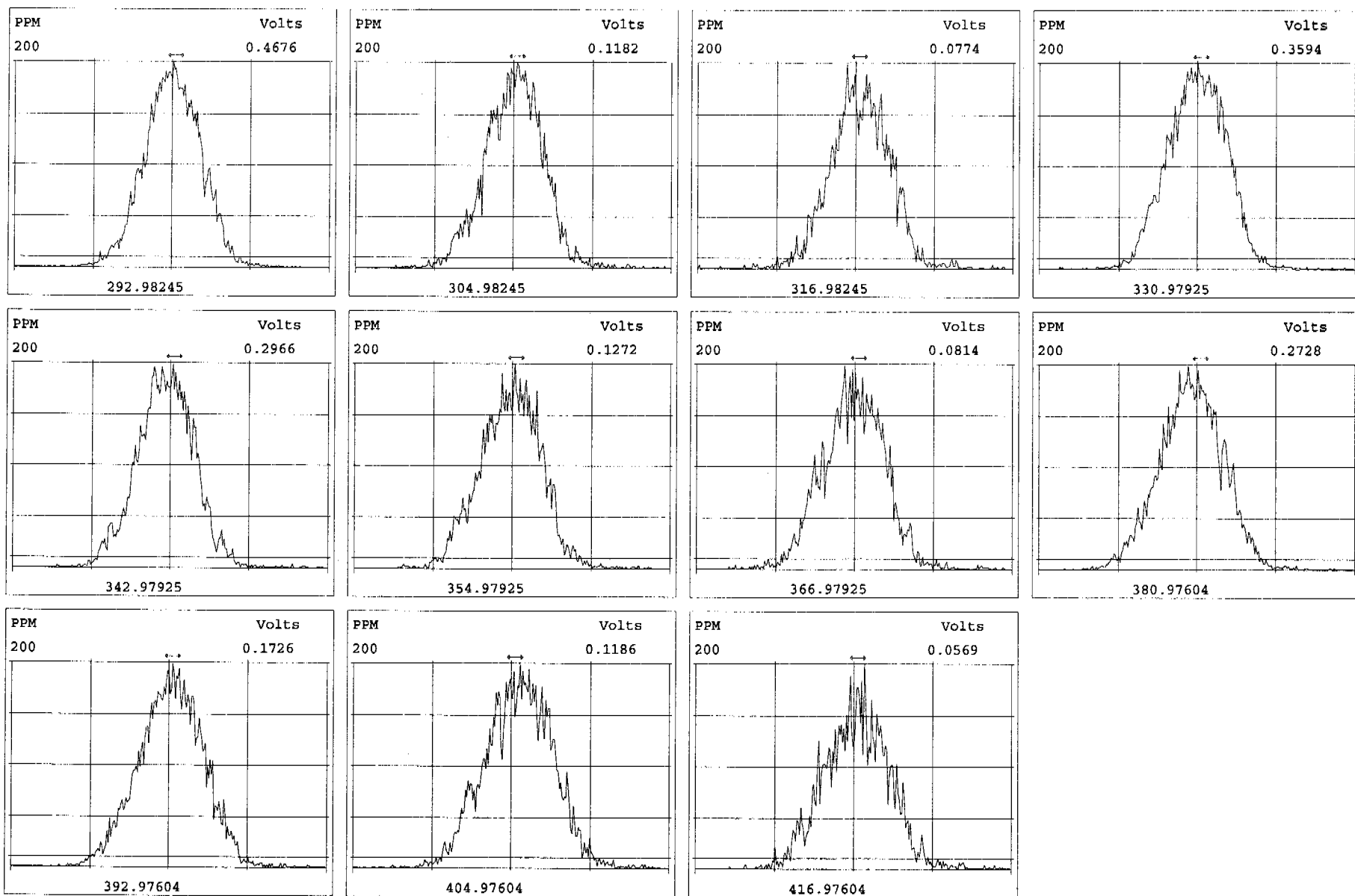
End Calibration ID: ST0920C2-2

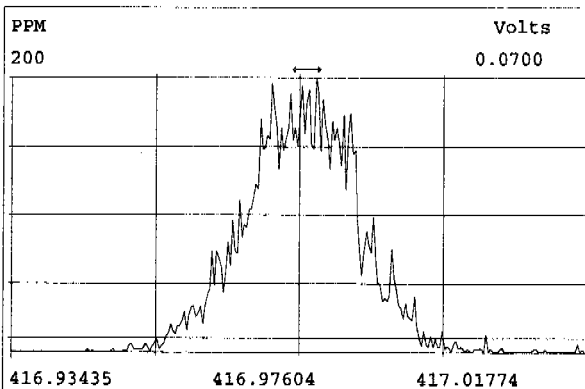
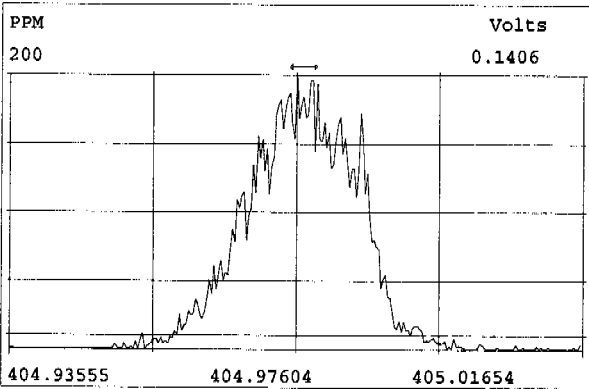
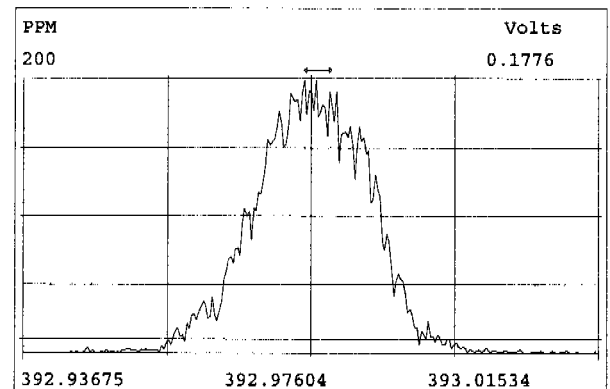
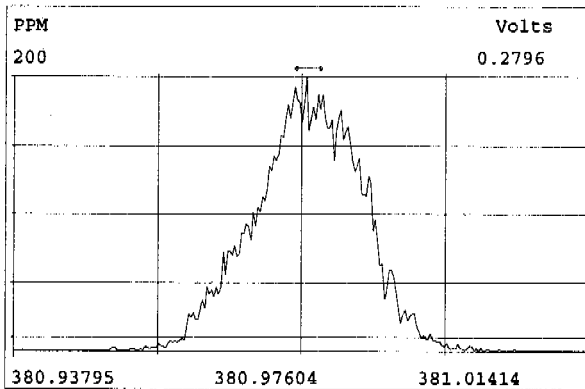
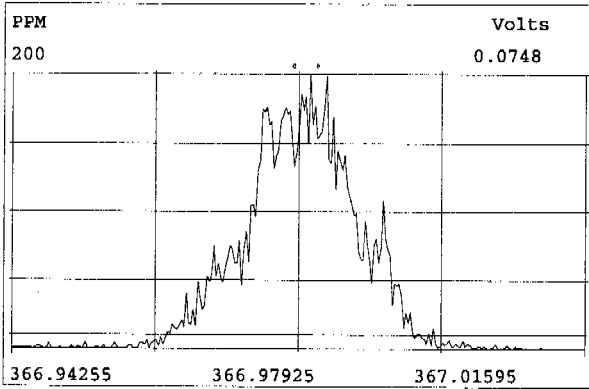
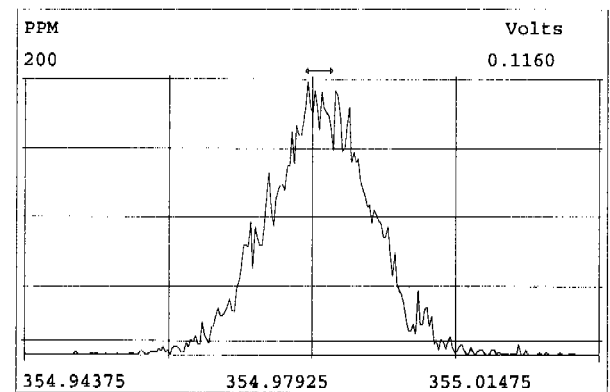
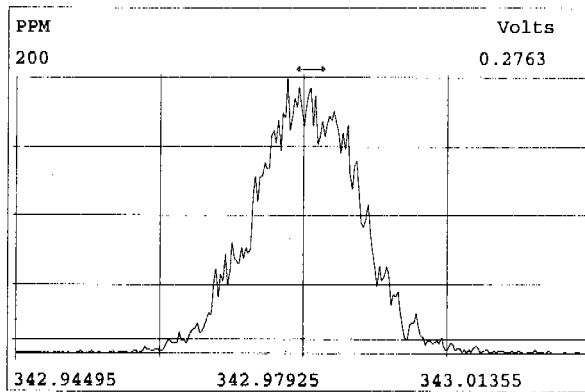
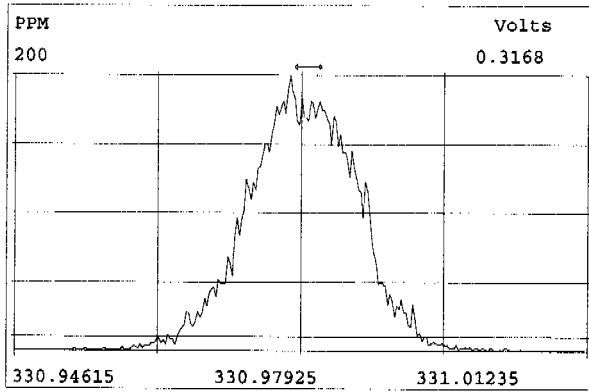
|   | <u>Beg.</u>                           | <u>End</u>                          |                                 | <u>Beg.</u>                         | <u>End</u>                          |
|---|---------------------------------------|-------------------------------------|---------------------------------|-------------------------------------|-------------------------------------|
| 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?<br>(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          |                                 |                                     |                                     |

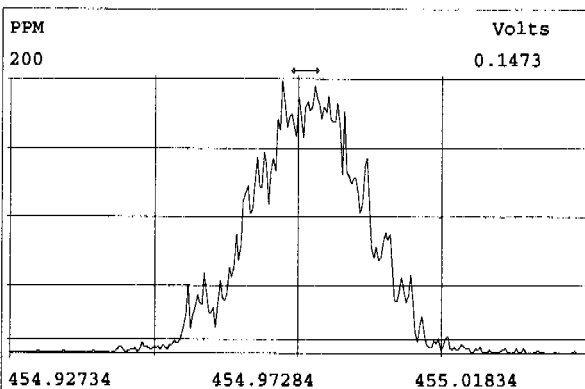
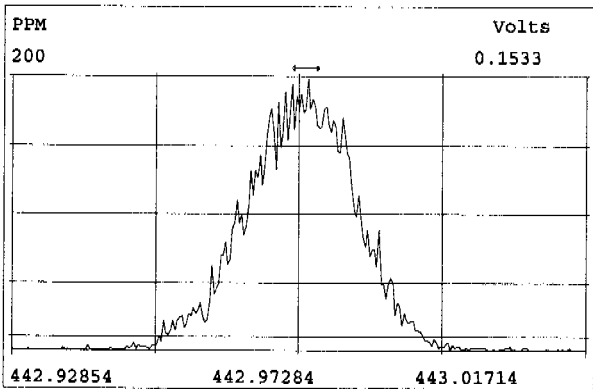
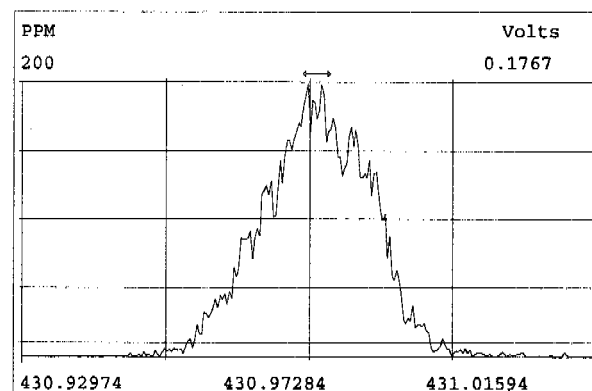
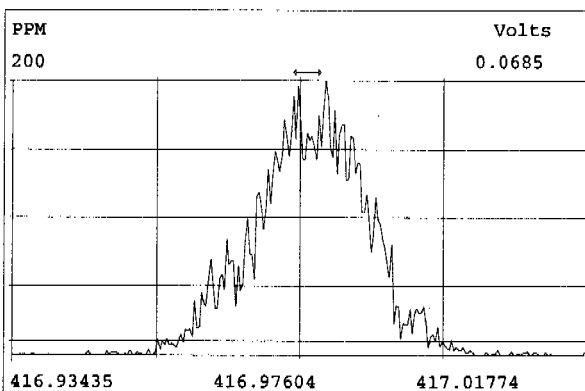
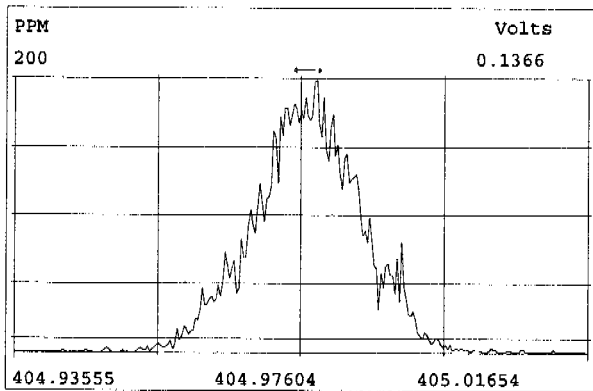
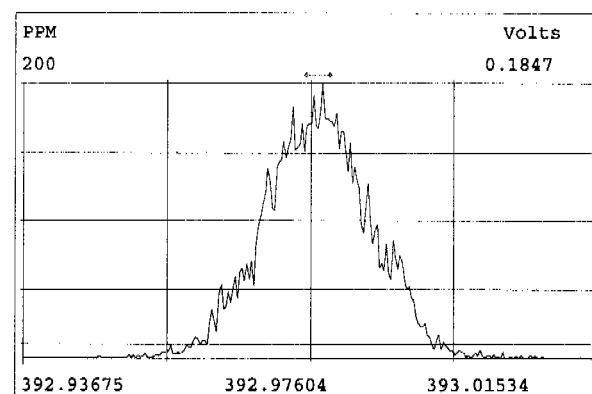
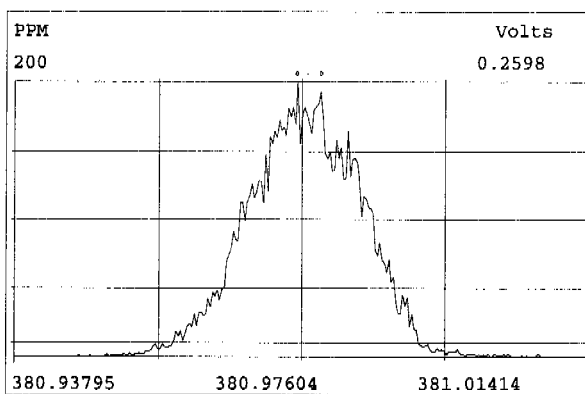
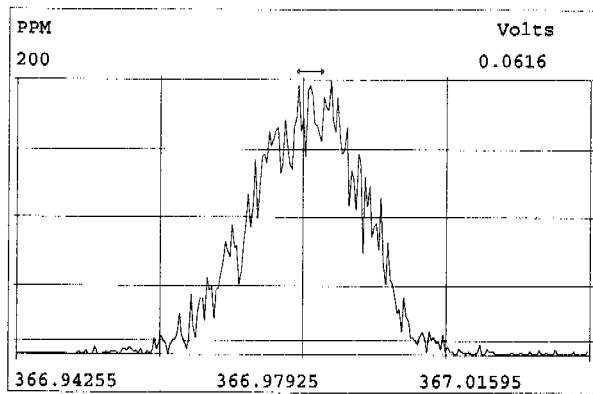
Comments:

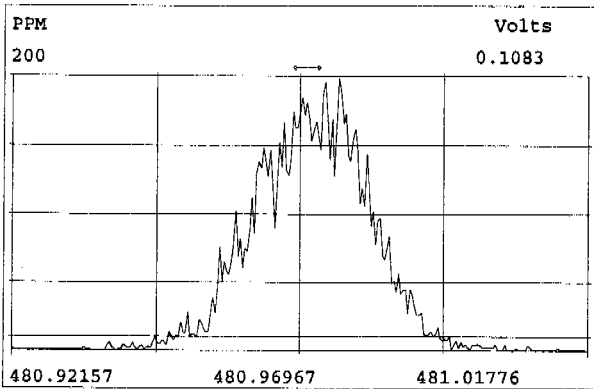
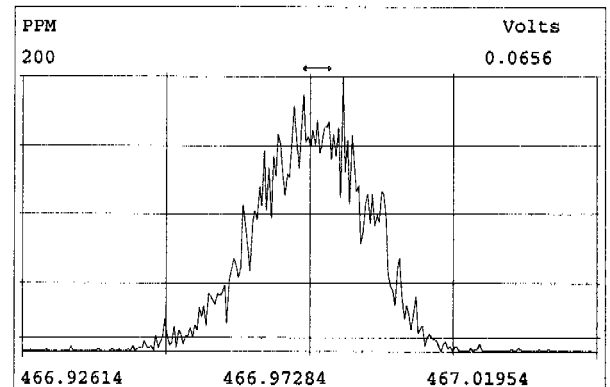
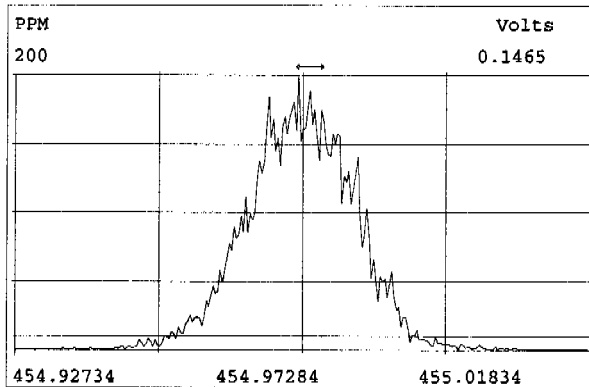
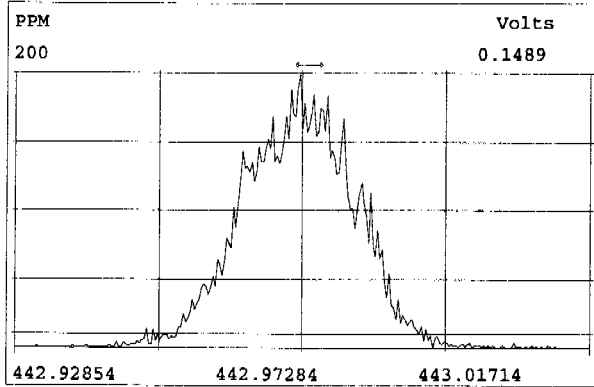
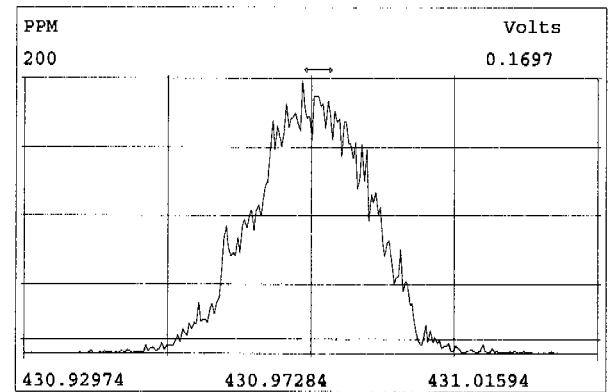
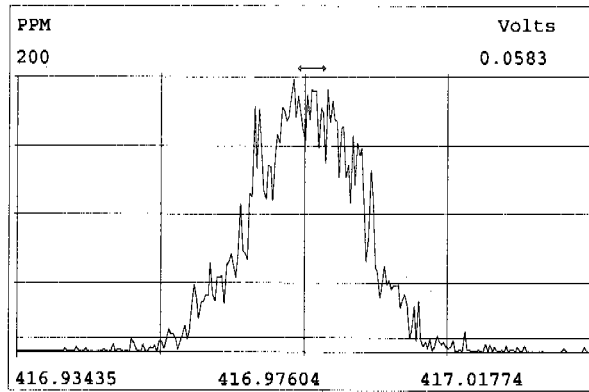
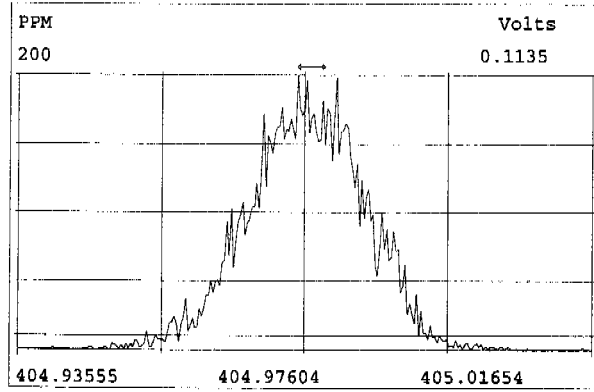
Reviewed by: J 9/25/06  
 Initials & Date

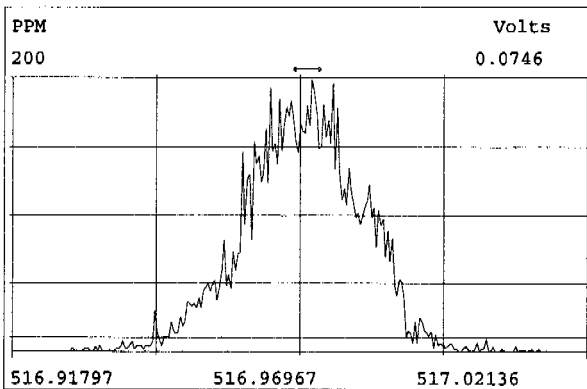
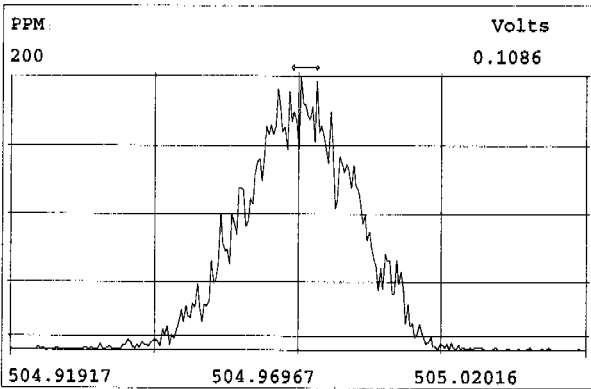
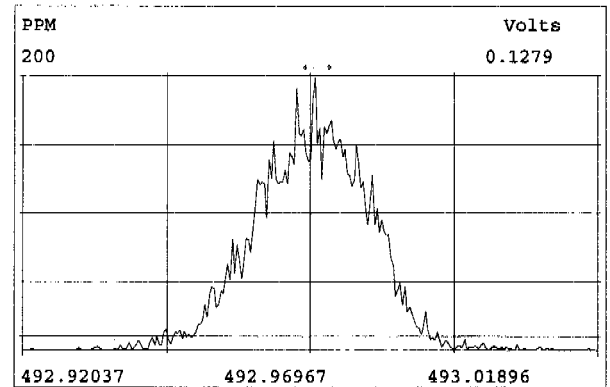
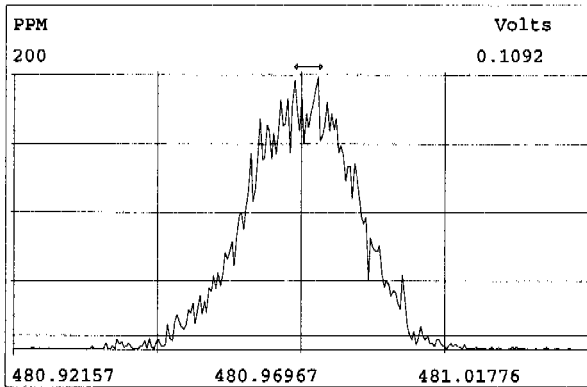
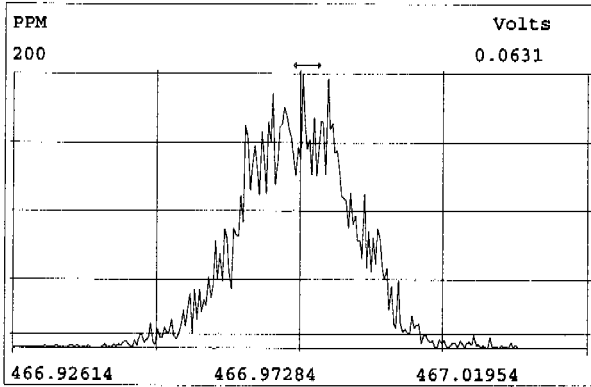
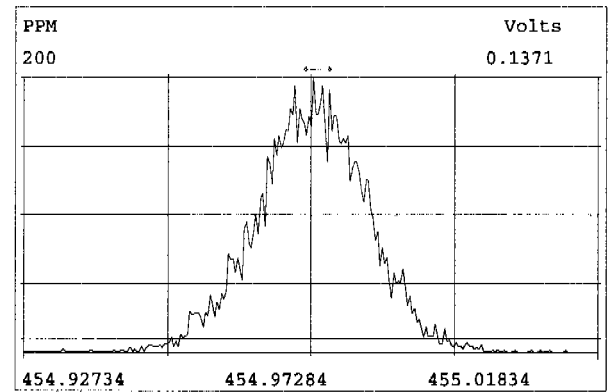
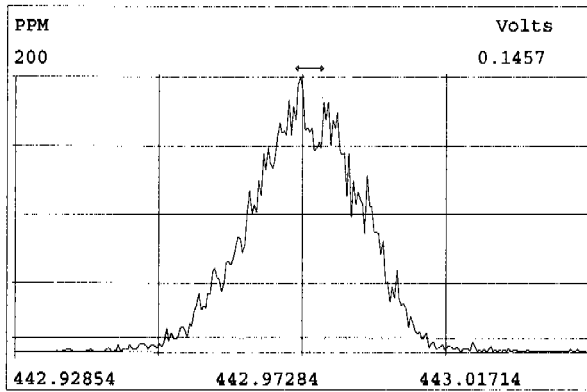
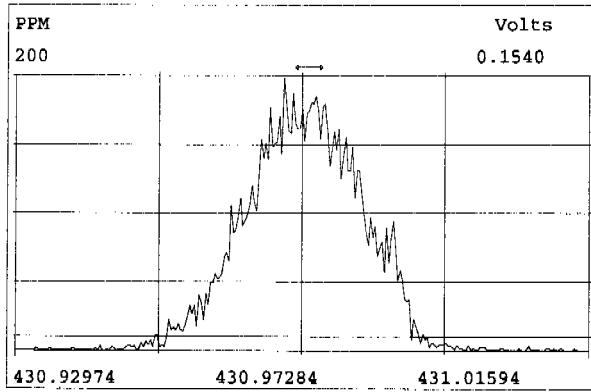
\* Ending standard criteria applicable to 8290 only.



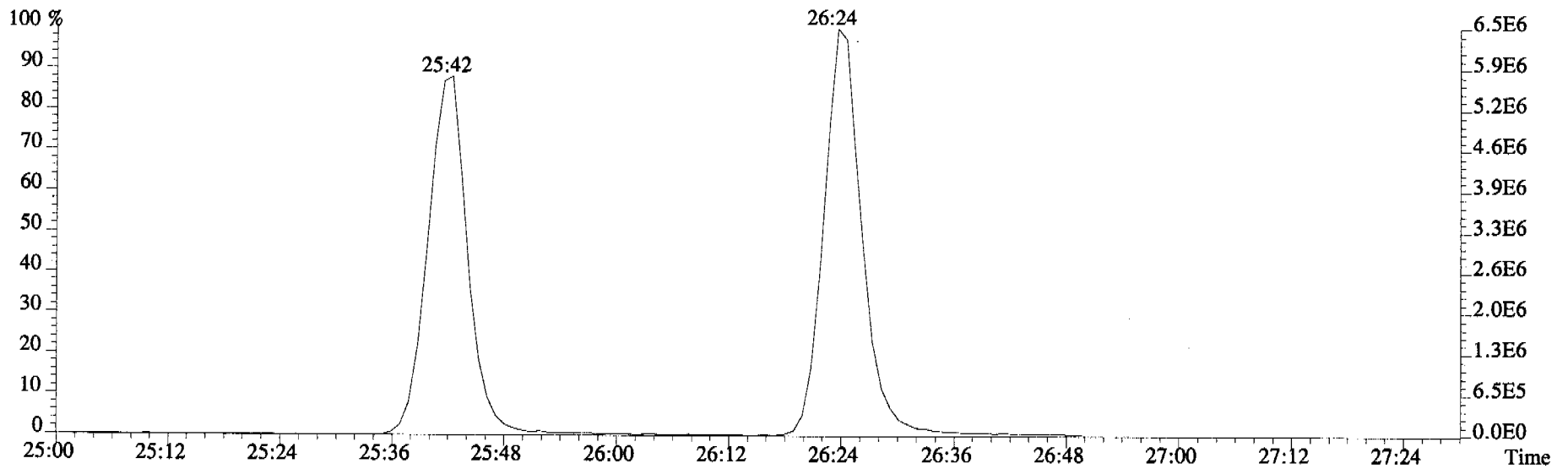
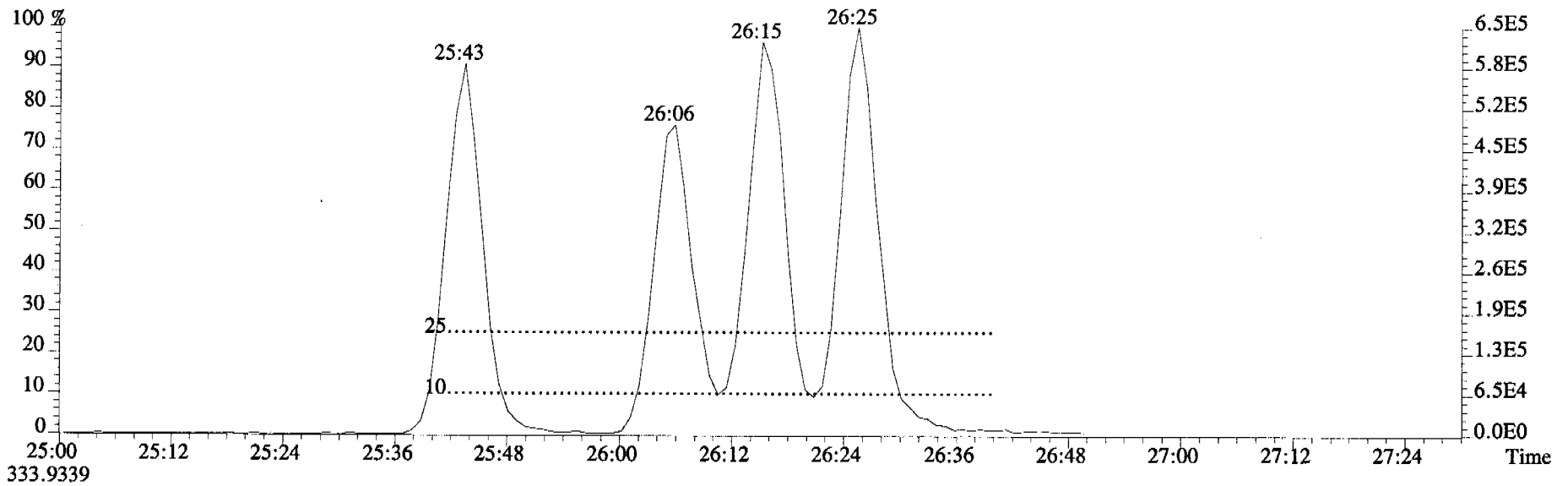






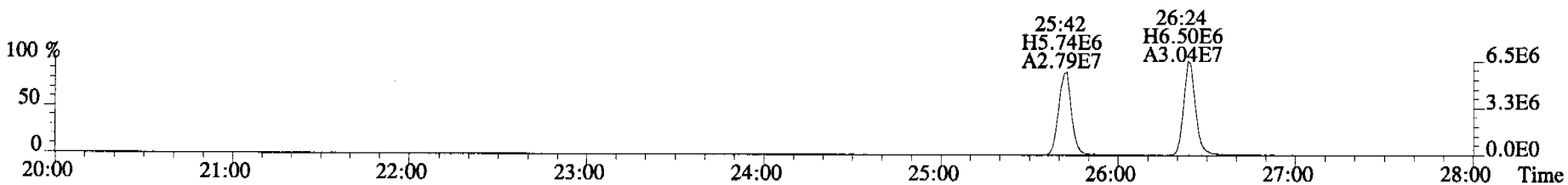
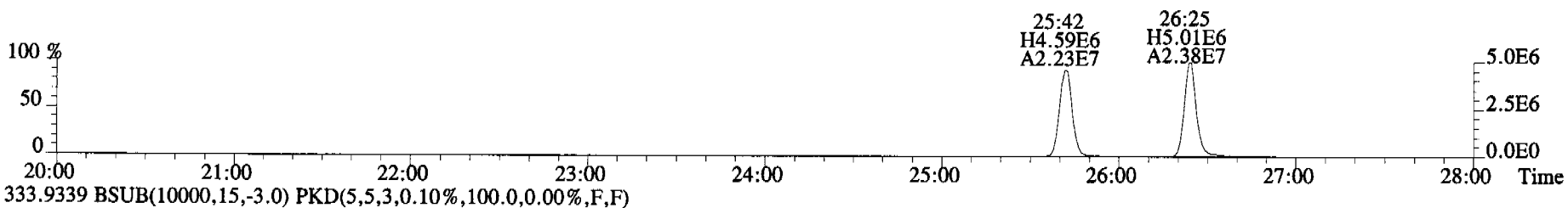
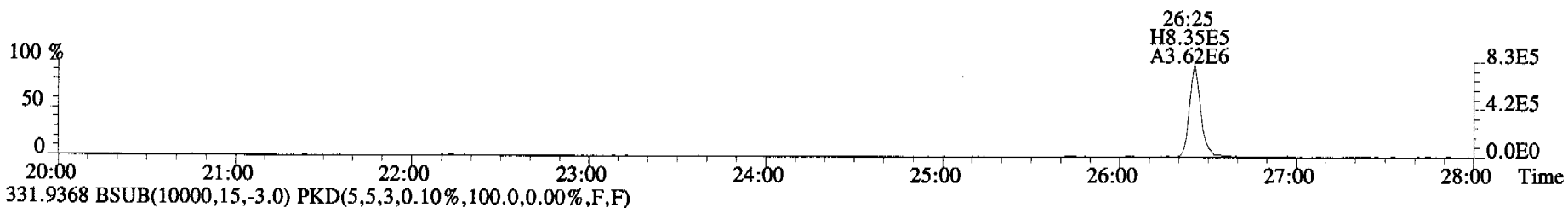
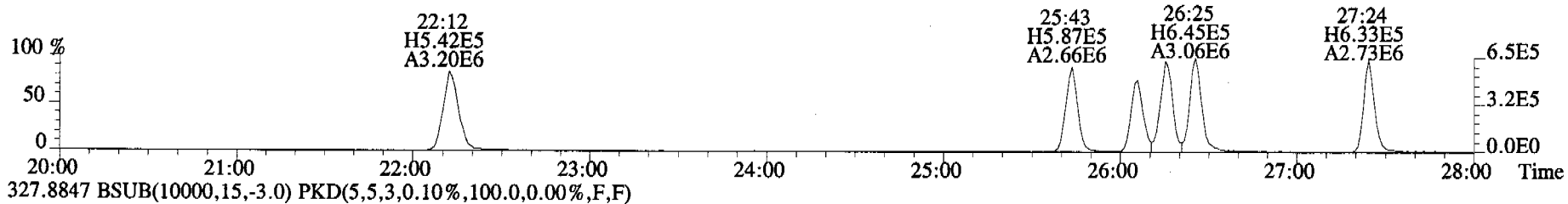
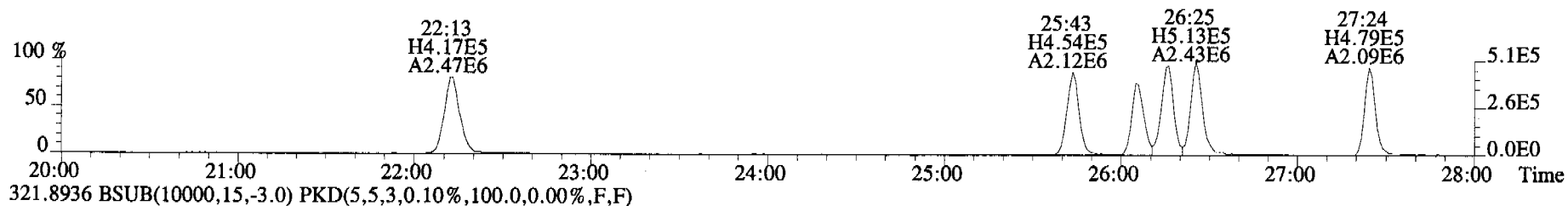


File:060920C2 #1-470 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
321.8936

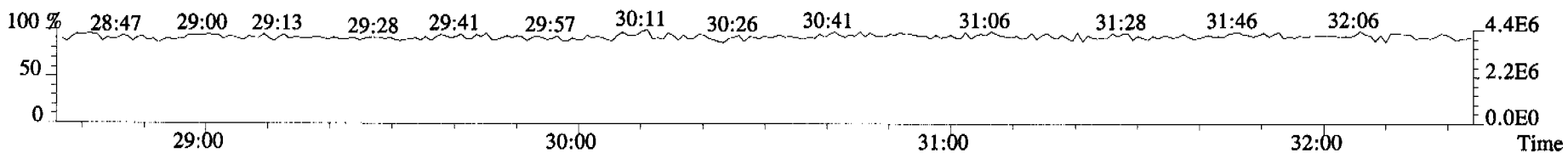
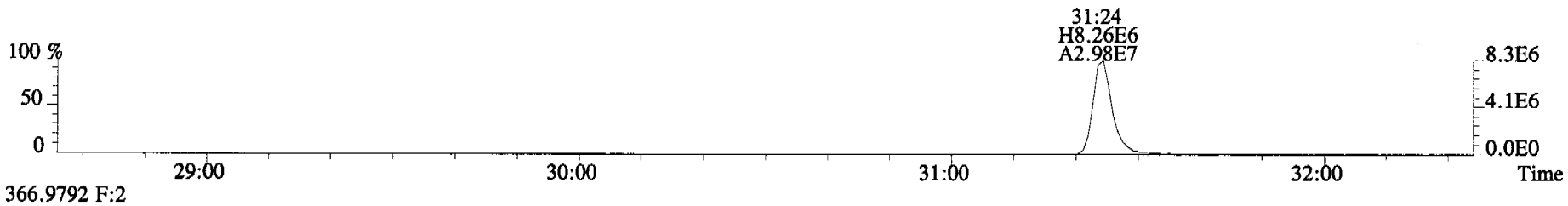
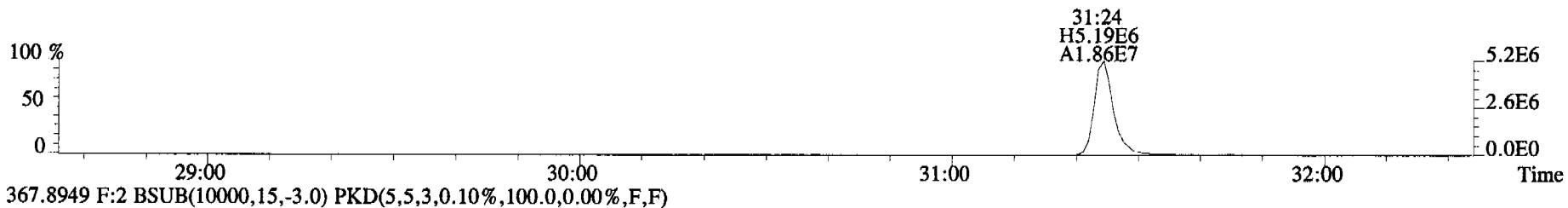
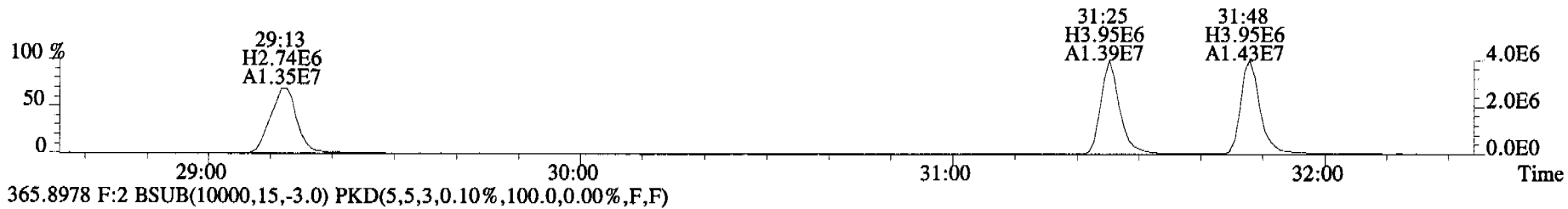
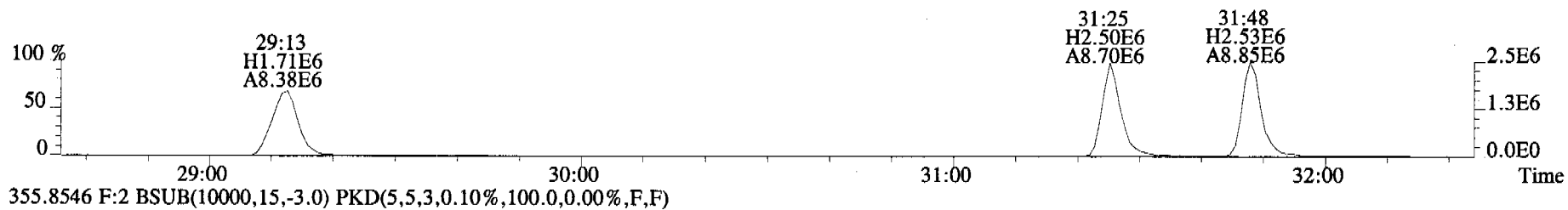




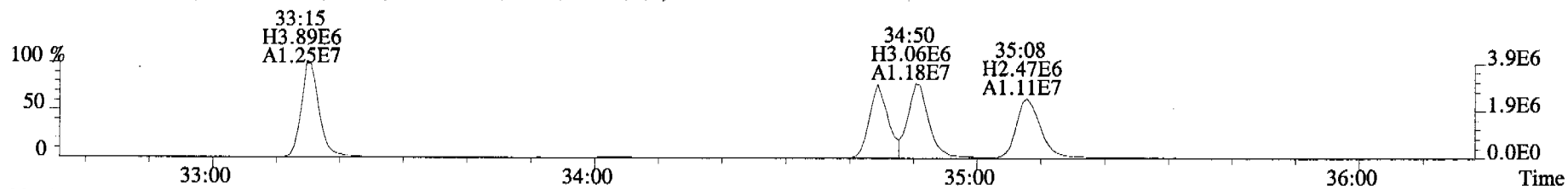
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



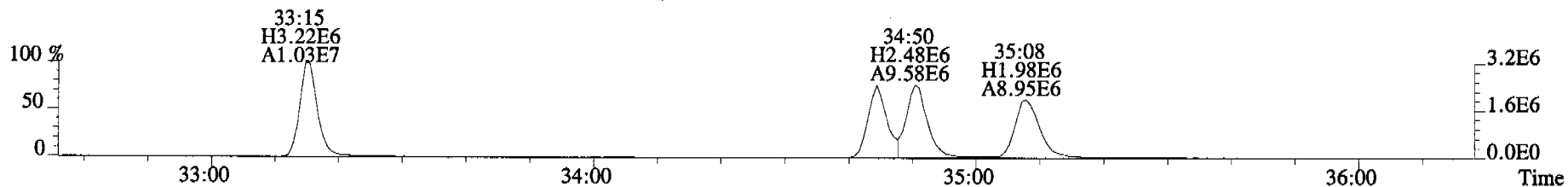
File:060920C2 #1-324 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



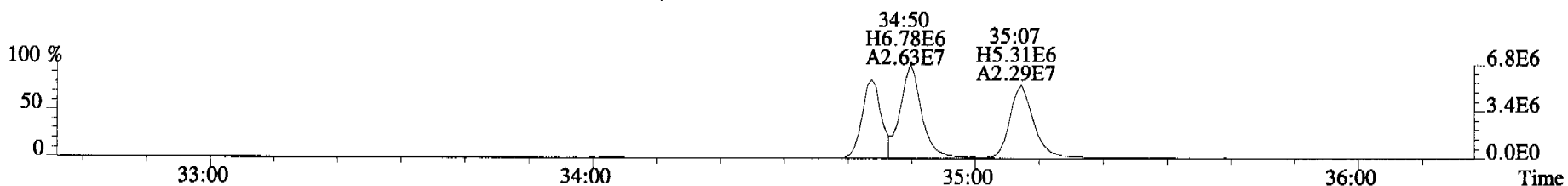
File:060920C2 #1-363 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



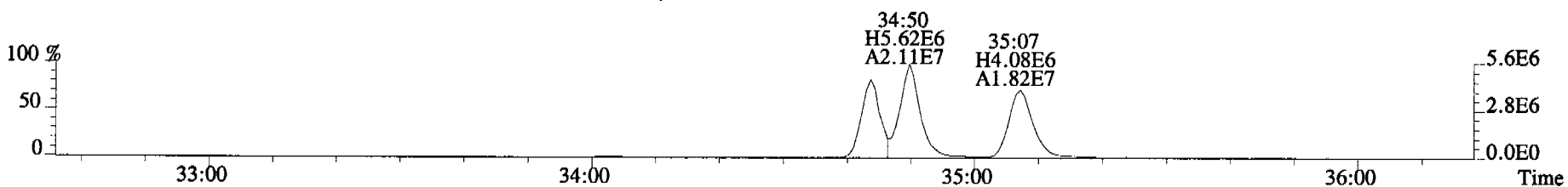
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



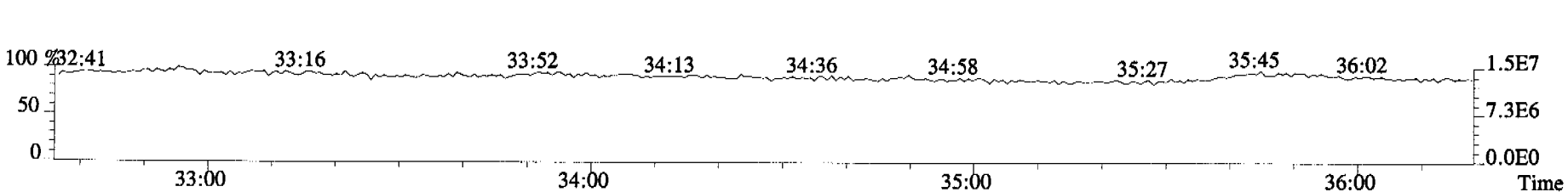
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



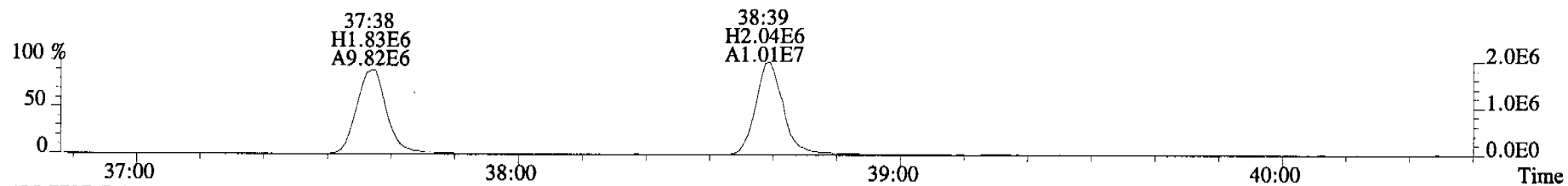
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



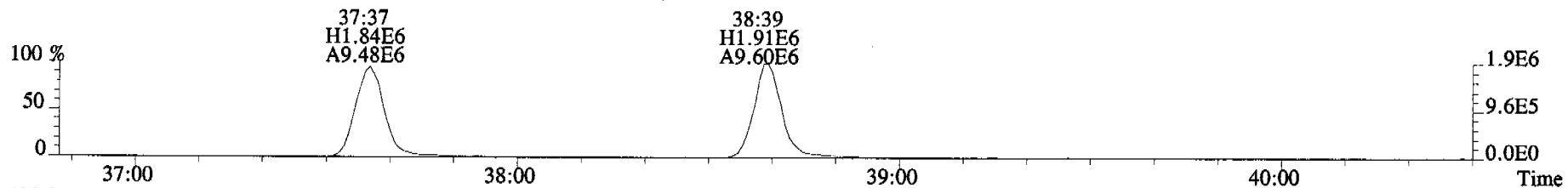
380.9760 F:3



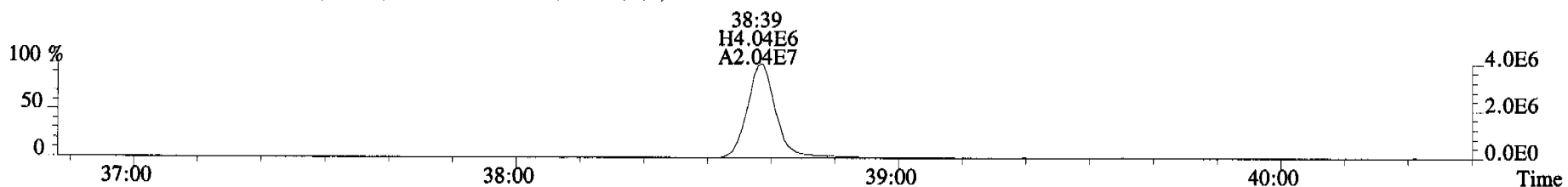
File:060920C2 #1-399 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



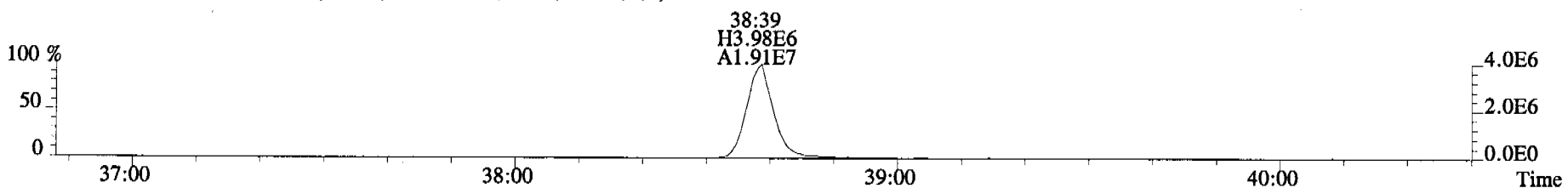
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



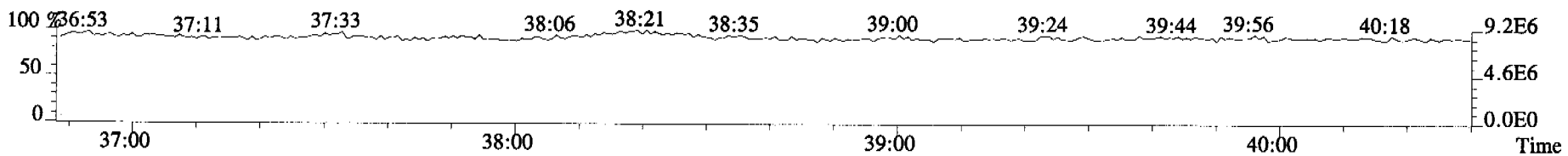
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



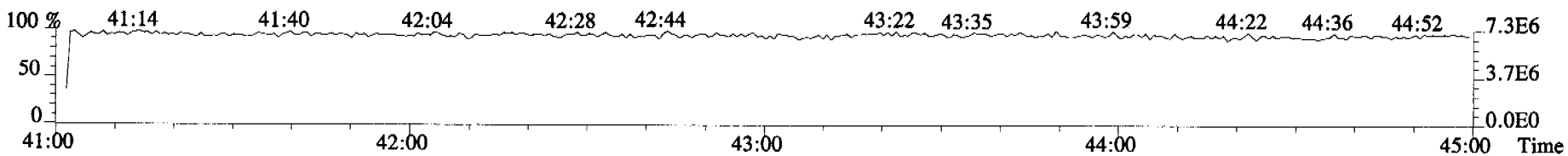
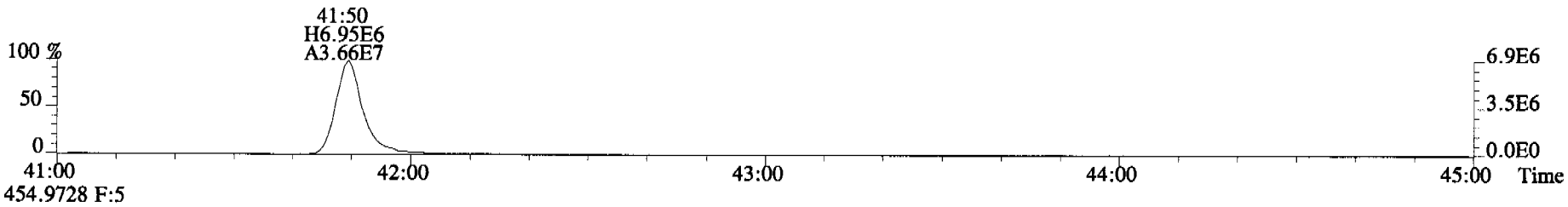
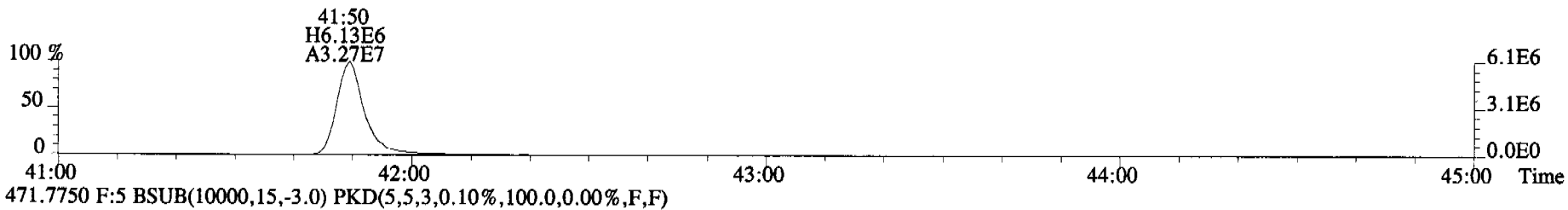
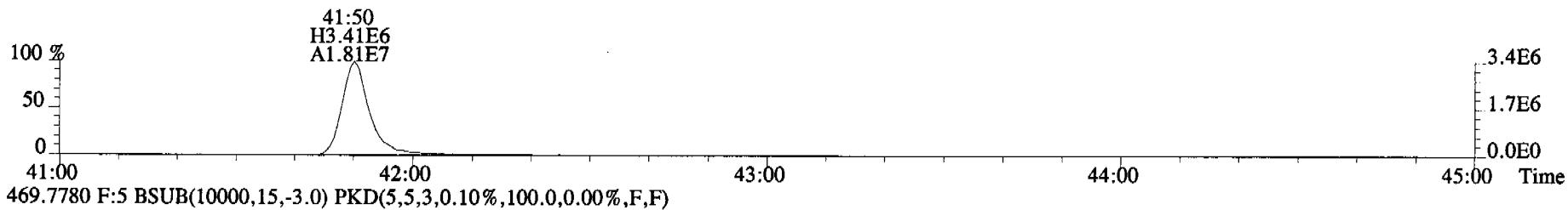
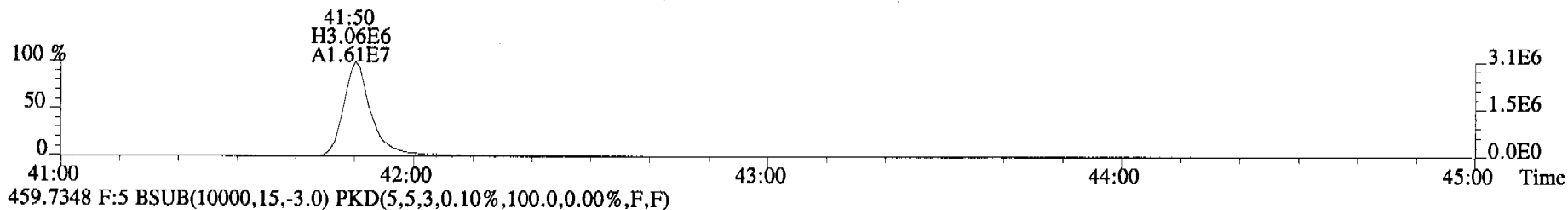
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



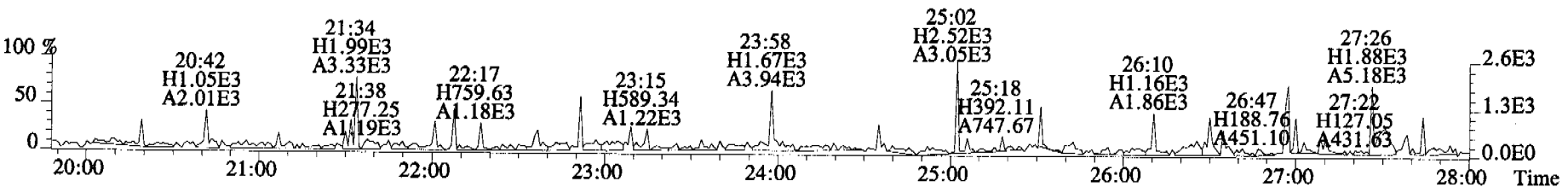
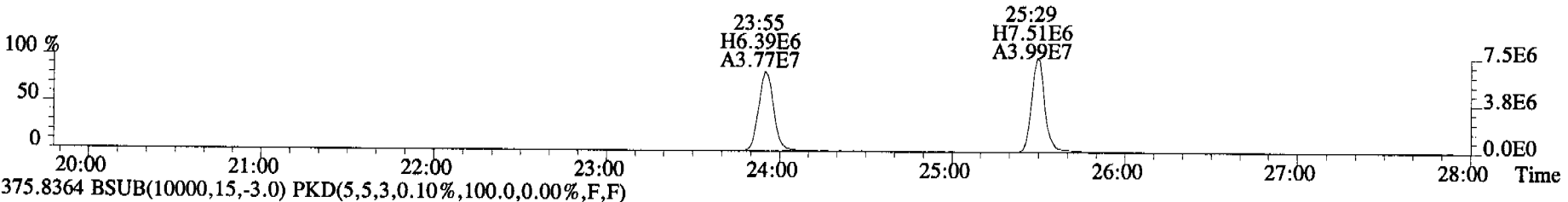
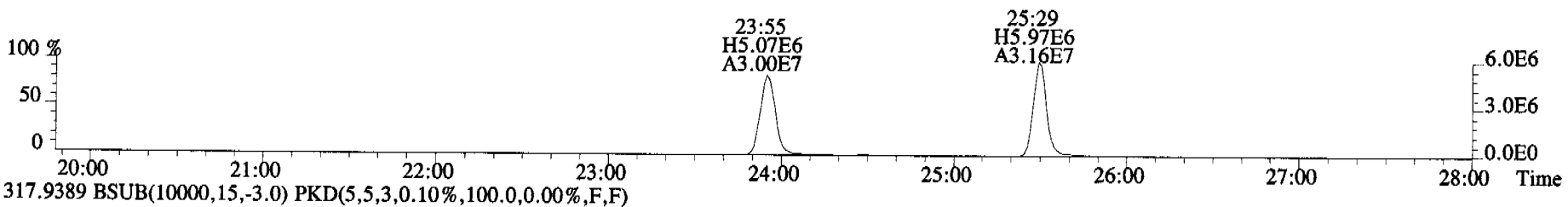
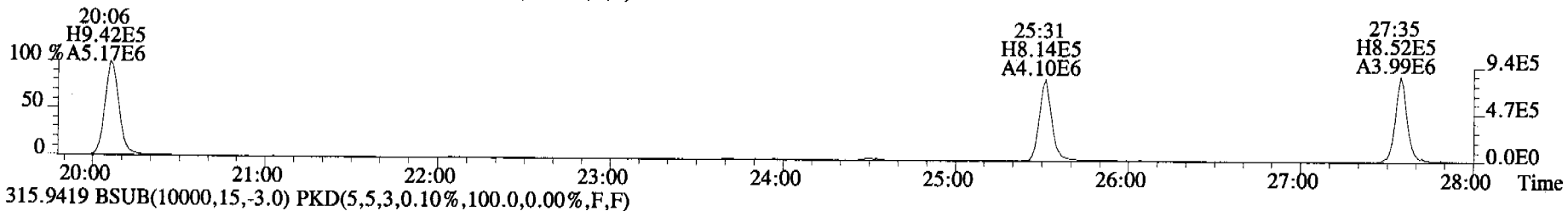
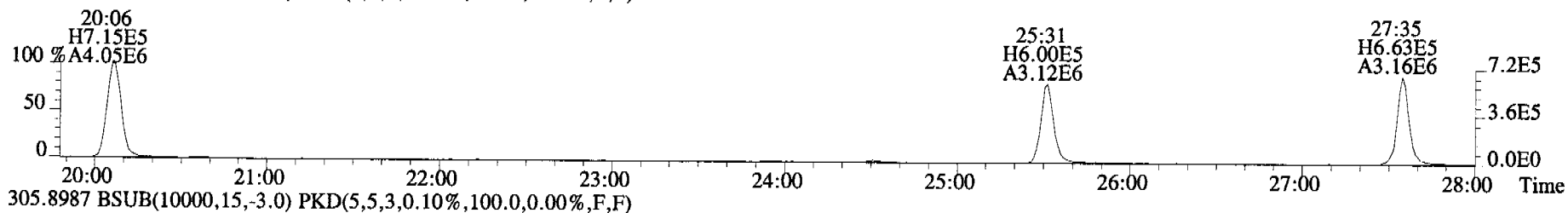
430.9728 F:4



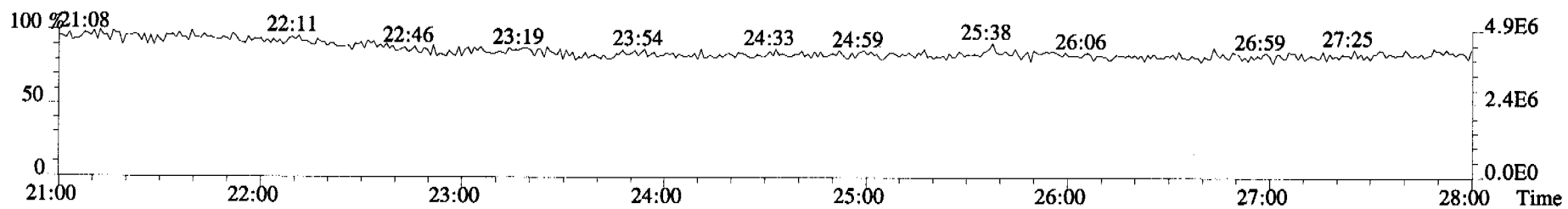
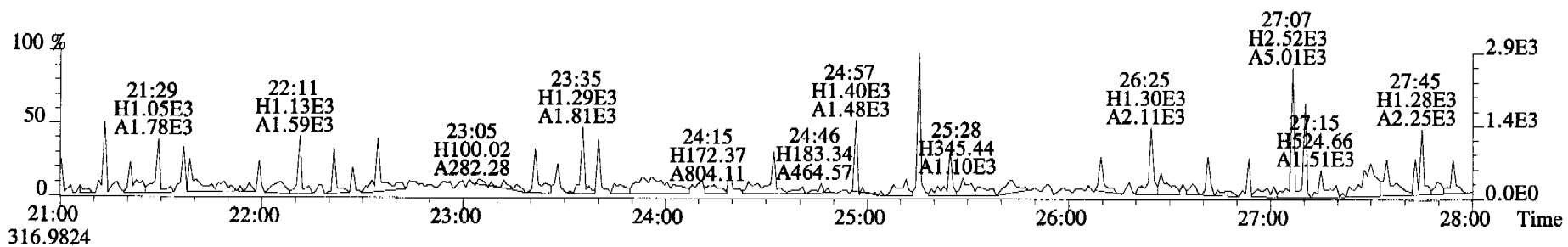
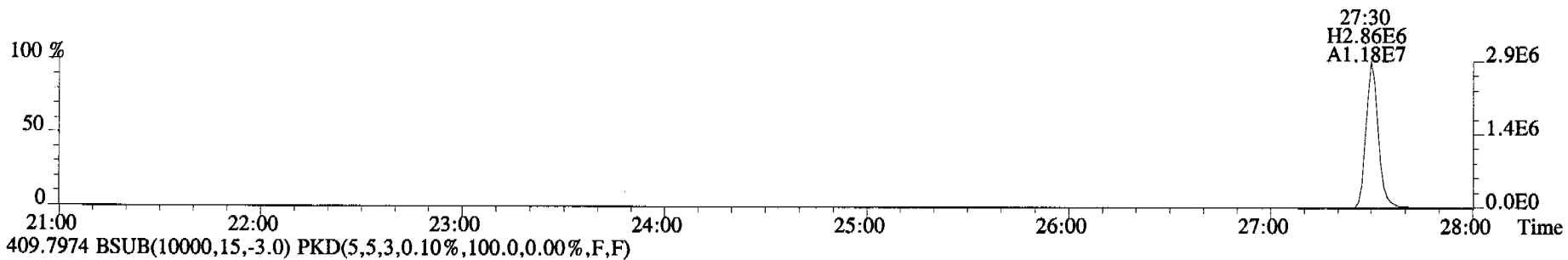
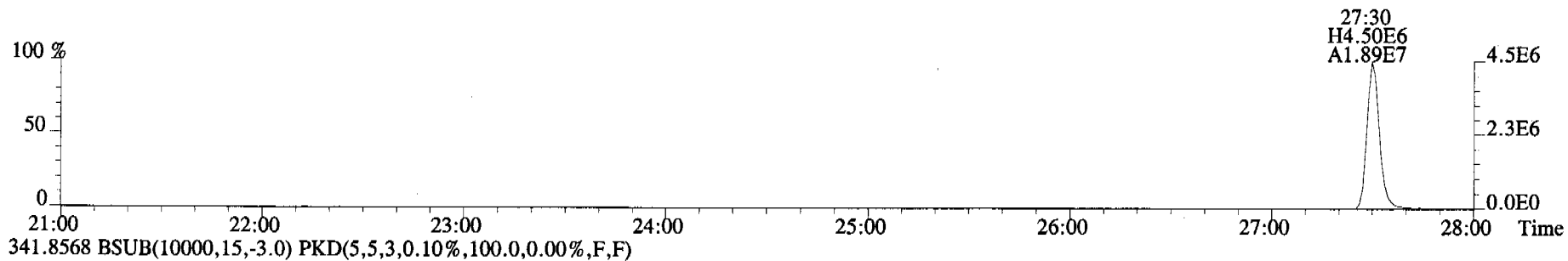
File:060920C2 #1-345 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



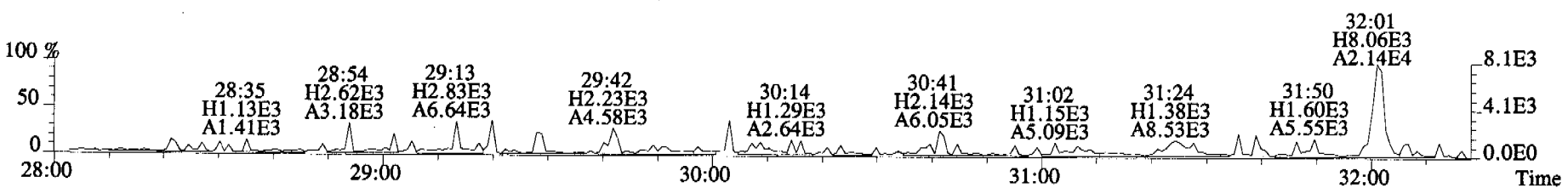
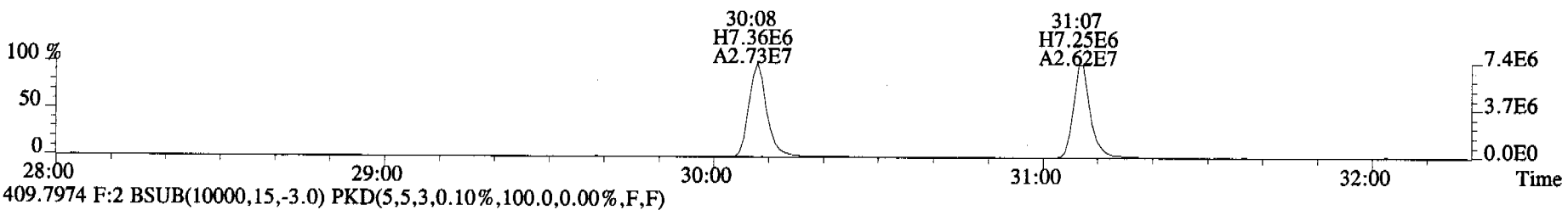
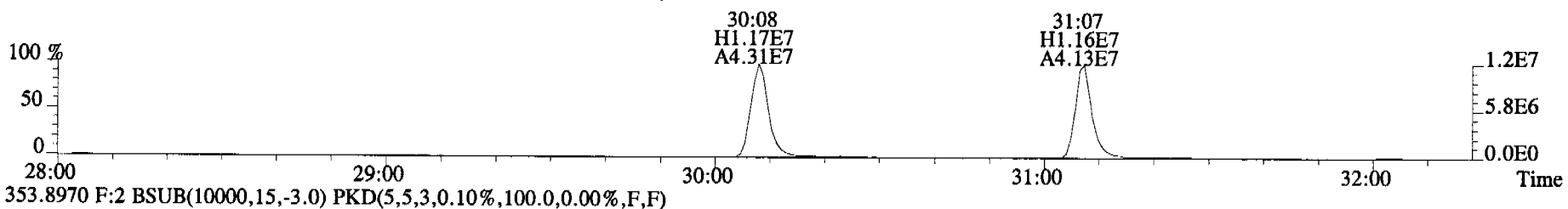
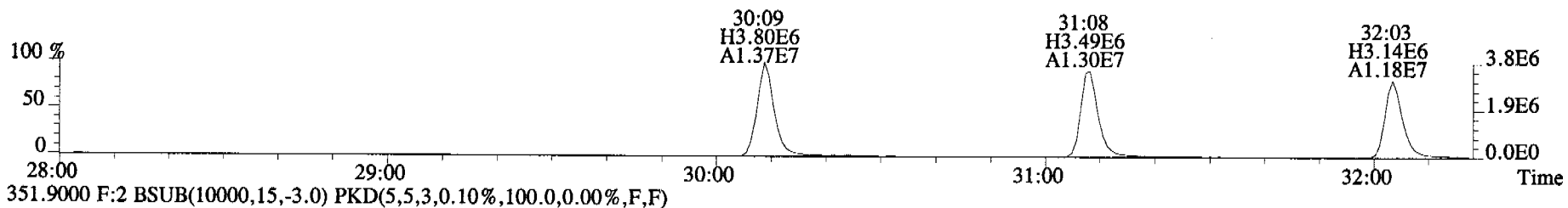
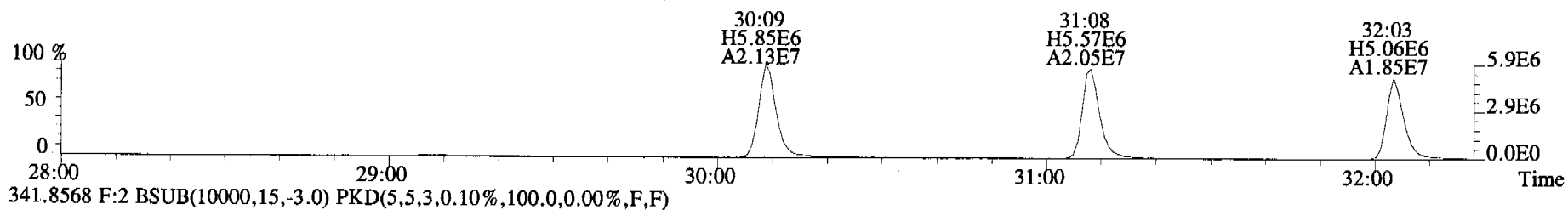
File:060920C2 #1-546 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

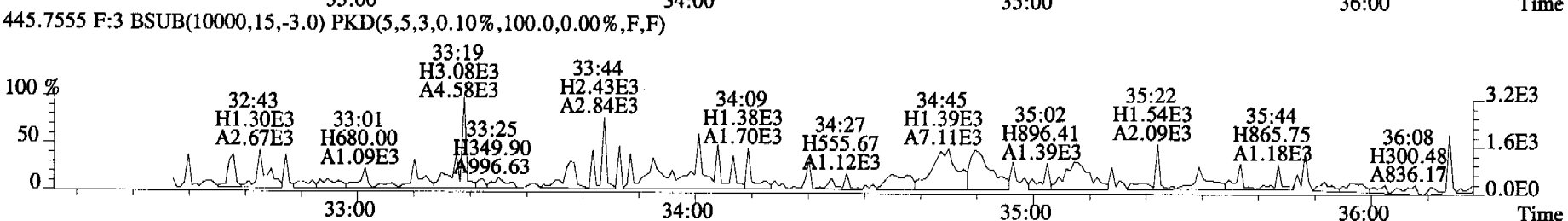
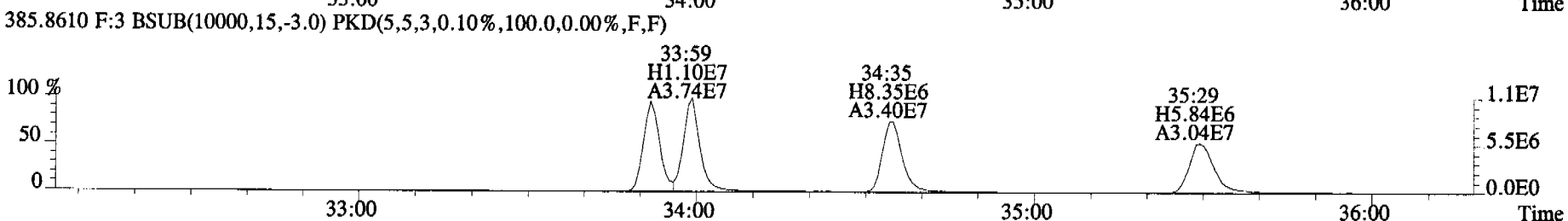
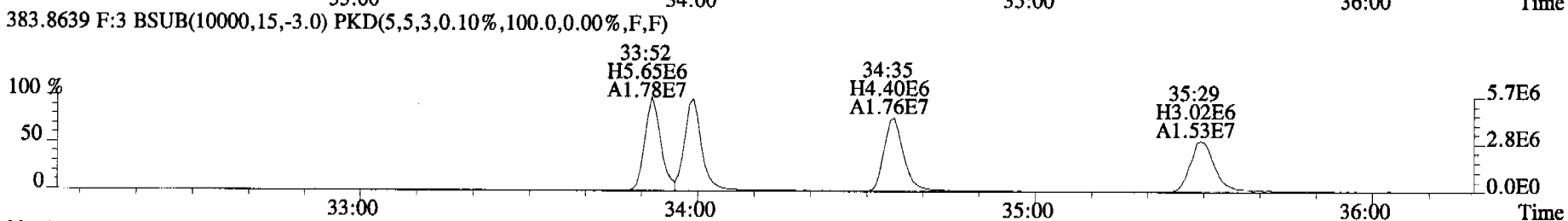
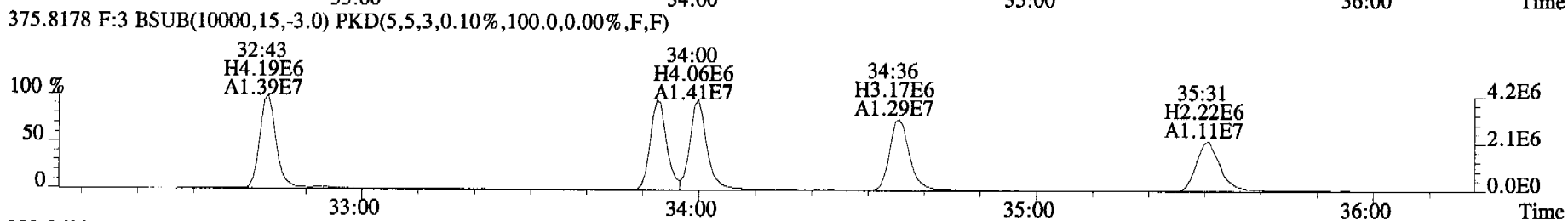
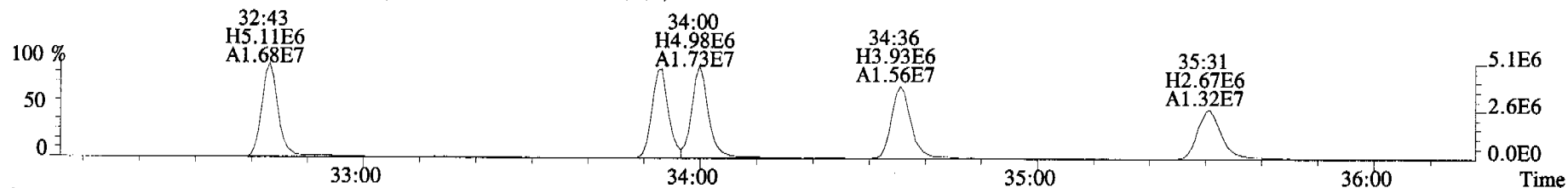


File:060920C2 #1-324 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

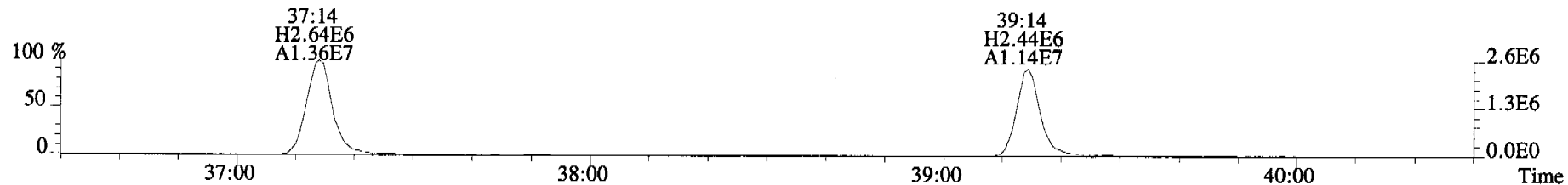




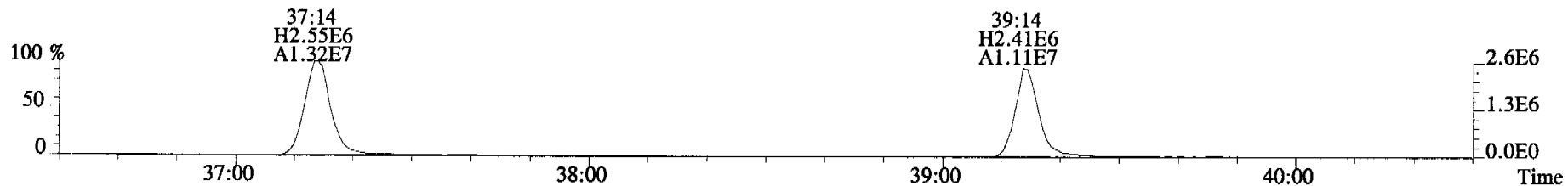
File:060920C2 #1-363 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



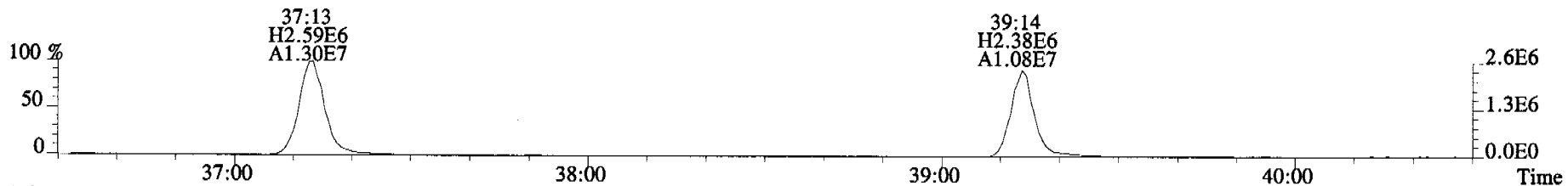
File:060920C2 #1-399 Acq:20-SEP-2006 15:15:02 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060920C2-1 1613 CS3 060110H Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



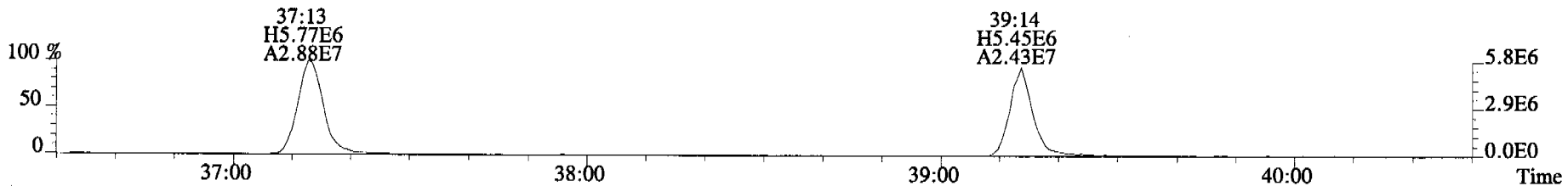
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



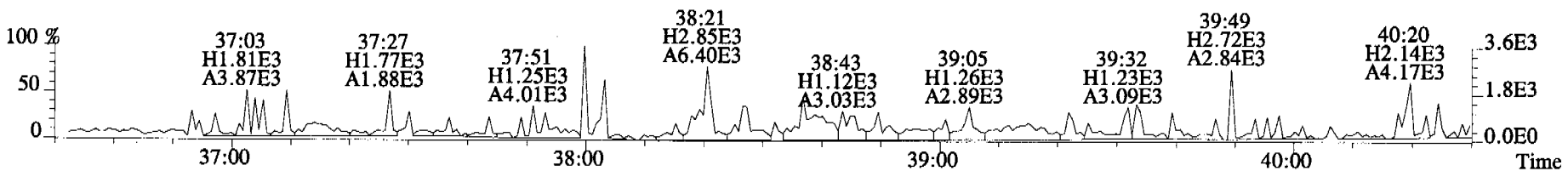
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



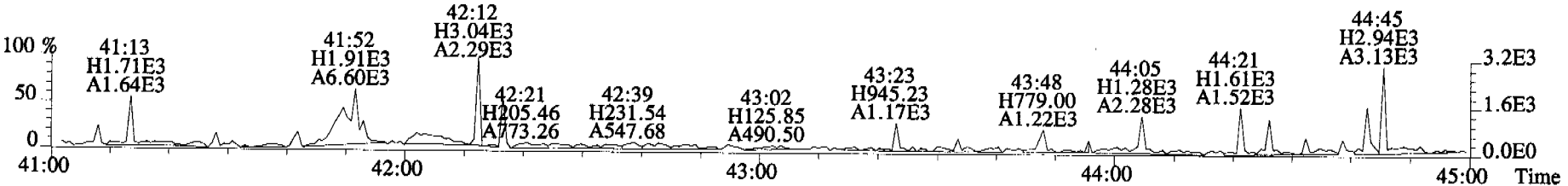
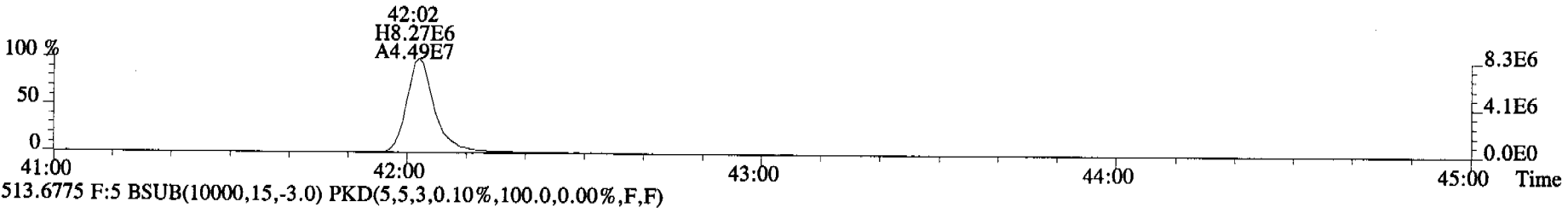
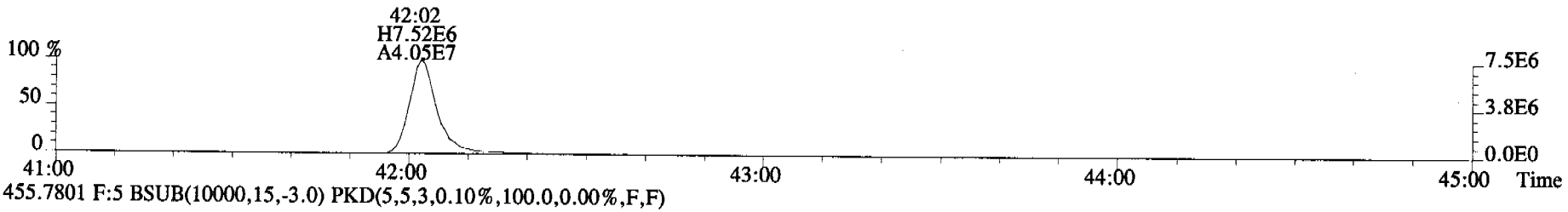
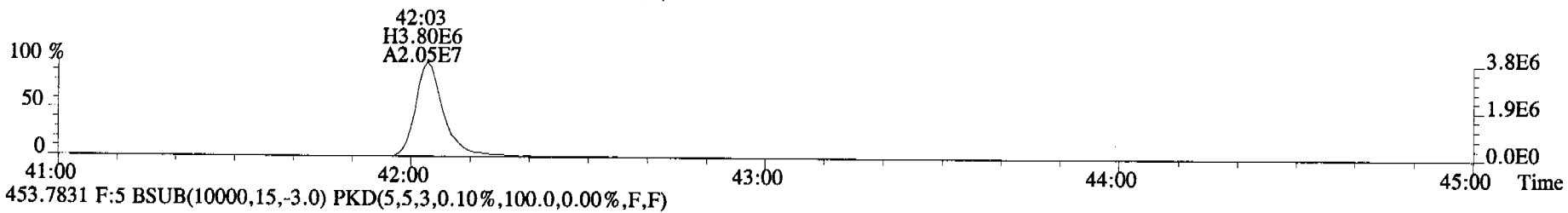
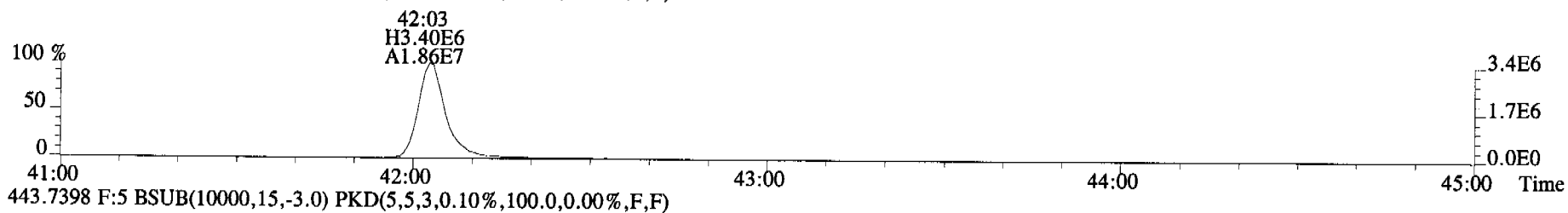
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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<br>FORMING<br>RATIO (1) | ION<br>ABUND.<br>RATIO | QC<br>LIMITS<br>(2) | Pass | CONC.<br>FOUND | CONC.<br>RANGE (3)<br>(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)<br>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<br>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<br>FORMING<br>RATIO (1) | ION<br>ABUND.<br>RATIO | QC<br>LIMITS<br>(2) | Pass | CONC.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL)    |  |
|-------------------------|-------------------------------|------------------------|---------------------|------|----------------|----------------------------------|--|
| 13C-2,3,7,8-TCDD        | M/M+2                         | 0.80                   | 0.65-0.89           | y    | 96.9           | 82.0 - 121.0<br>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<br>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                       | 1.55                   | 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<br>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<br>REFERENCE | RRT   | RRT<br>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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(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 |  |  |  |  |

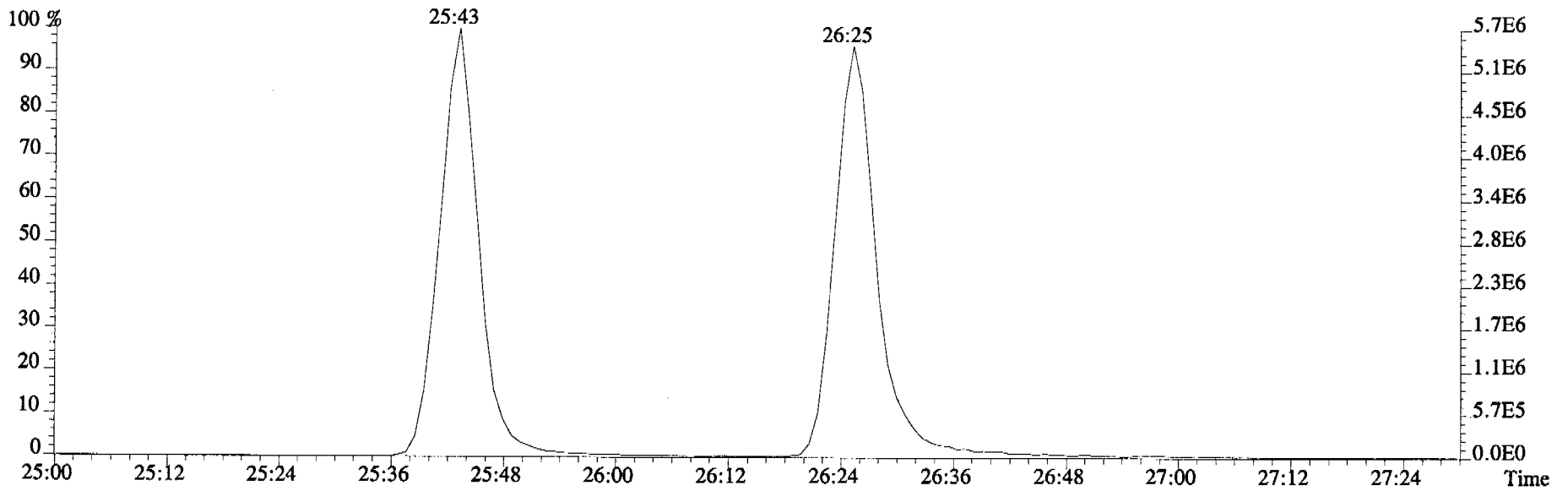
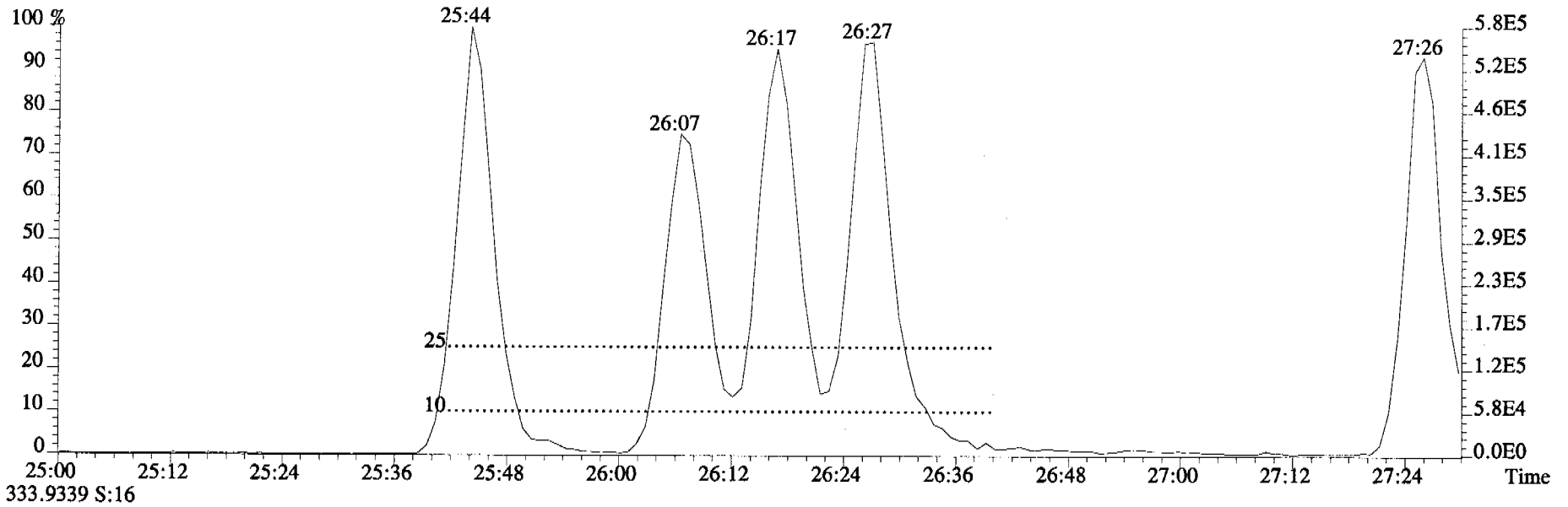
Integrations Reviewed  
 by by  
 Analyst: M Analyst: \_\_\_\_\_

Date: 9/21/06 Date: \_\_\_\_\_

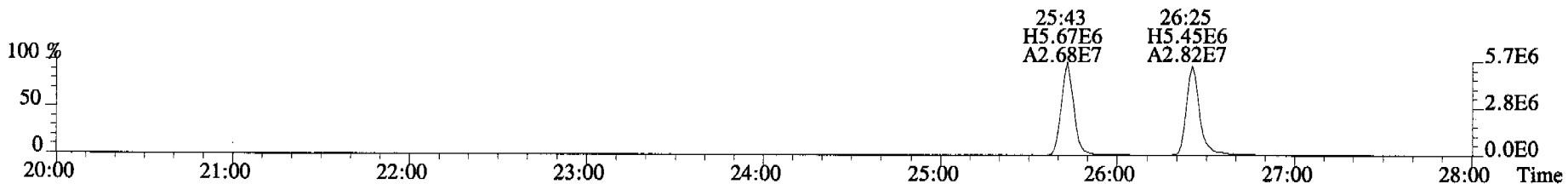
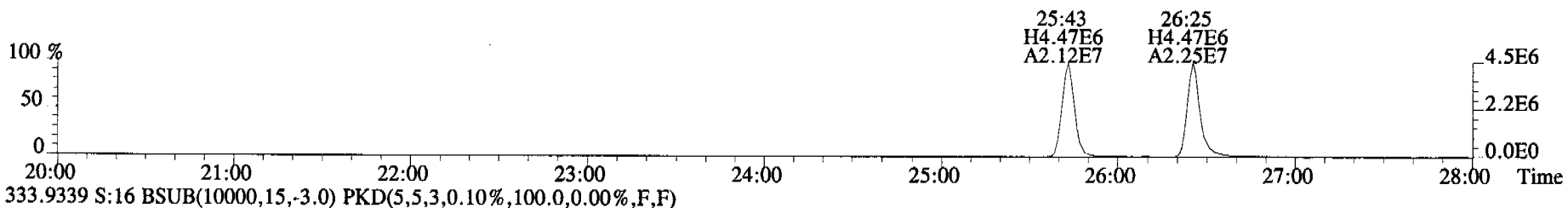
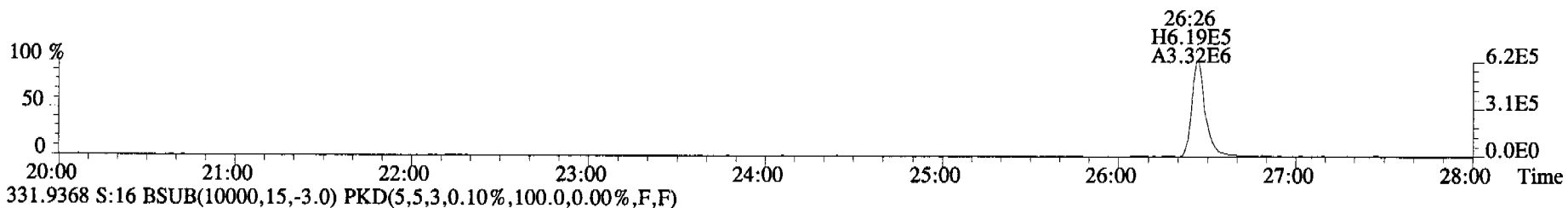
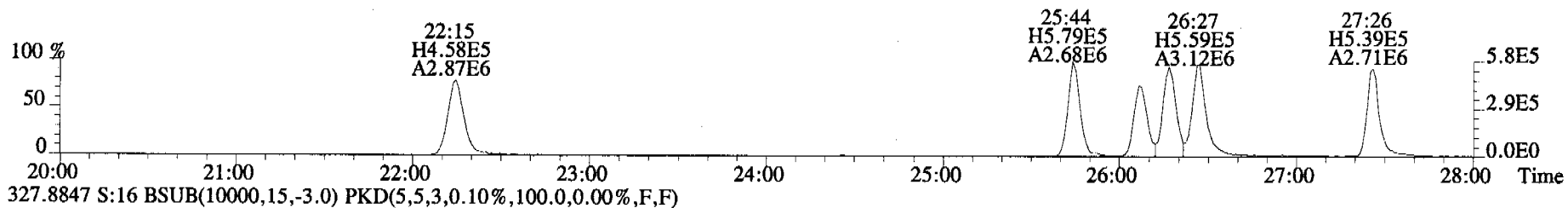
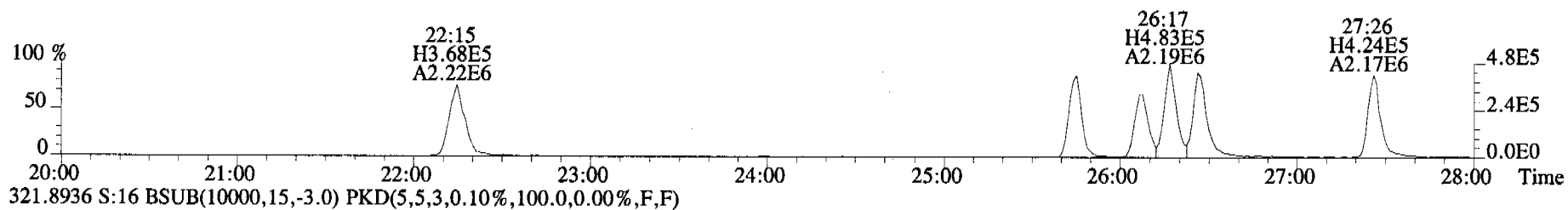
Alta Analytical Laboratory - Injection Log Run file: 060920C2 Instrument ID: VG-5 GC Column ID: db-5

| Data file | S# | Sample ID      | Analyst | Acq date  | Acq time | CCal         | ECal         |
|-----------|----|----------------|---------|-----------|----------|--------------|--------------|
| 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 |

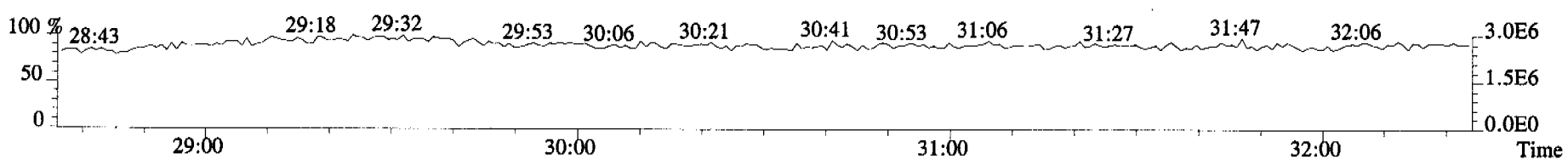
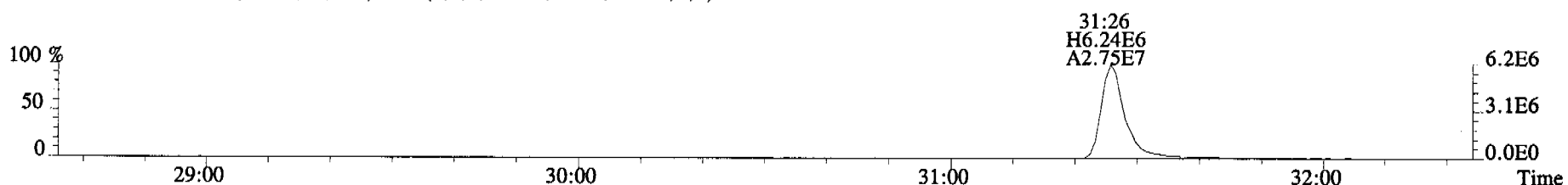
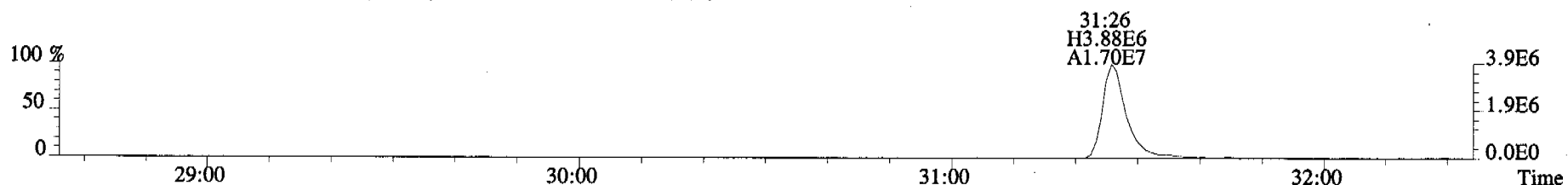
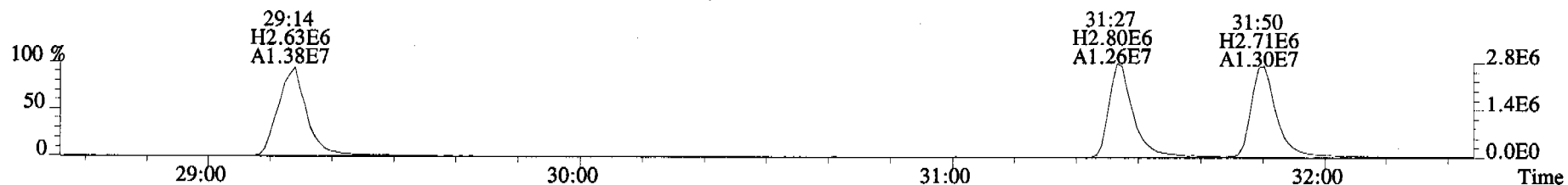
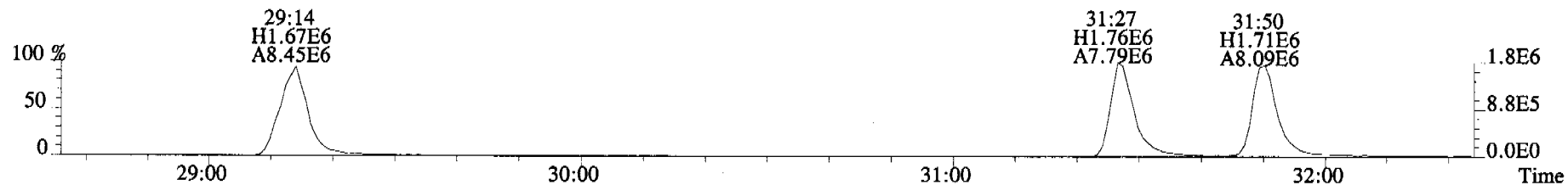
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Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
321.8936 S:16



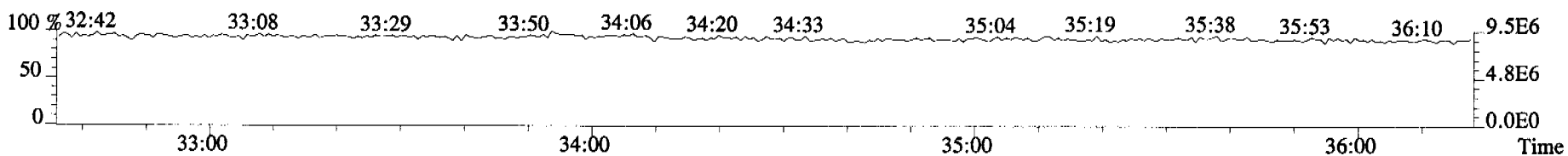
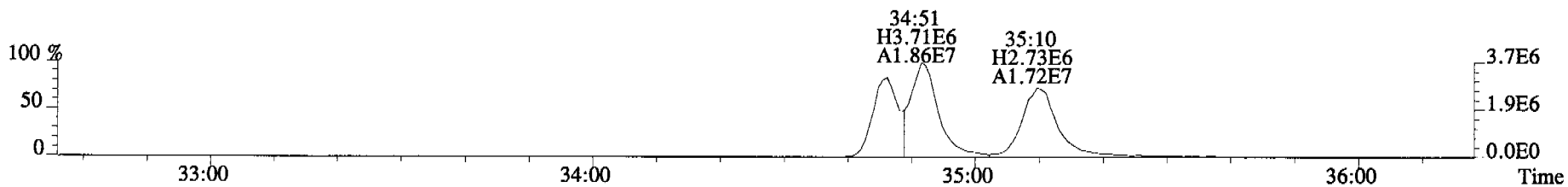
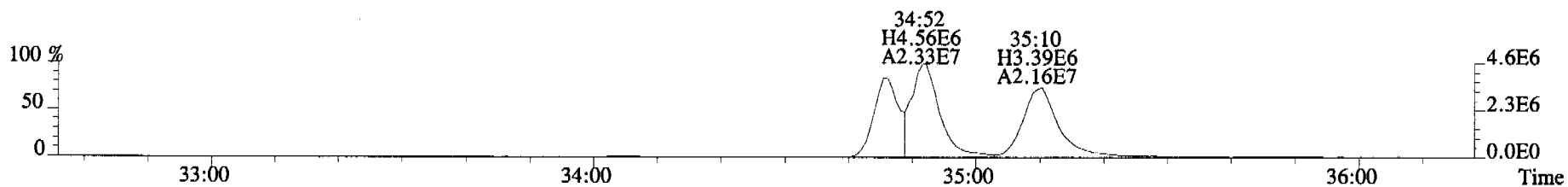
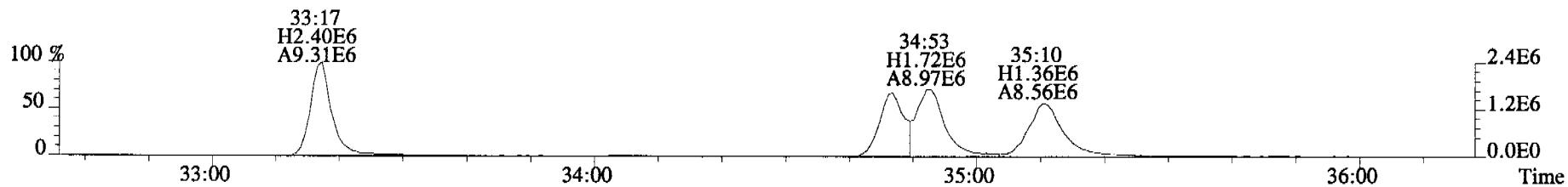
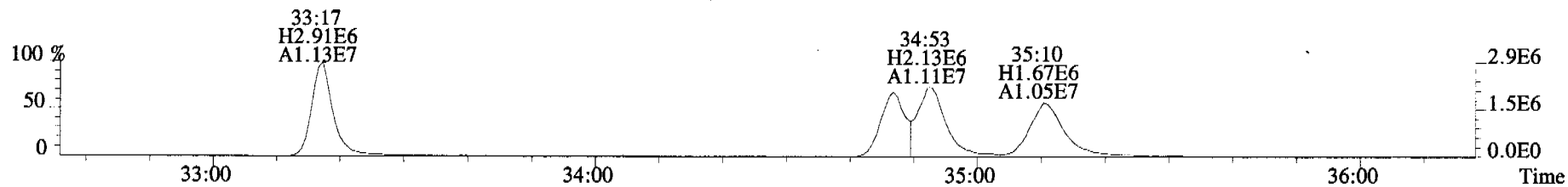
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319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

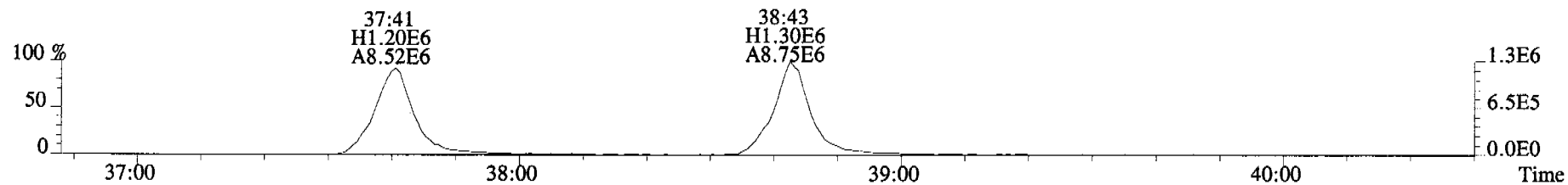


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389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

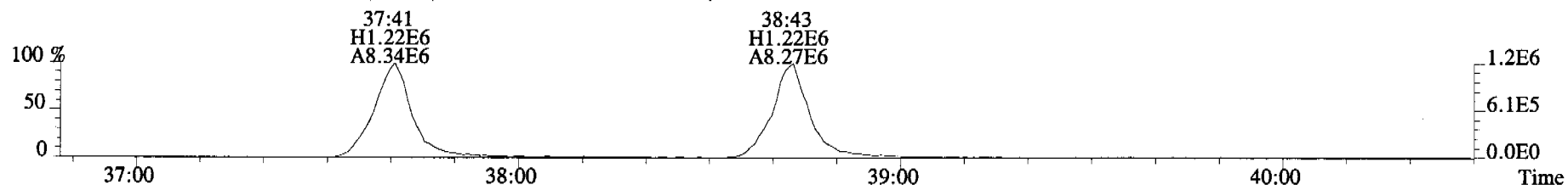




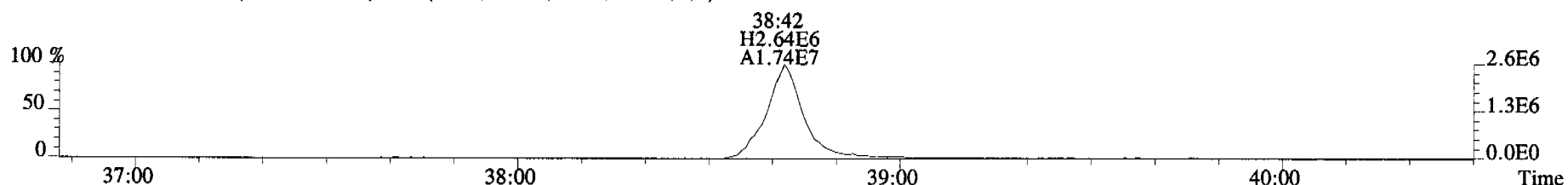
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423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



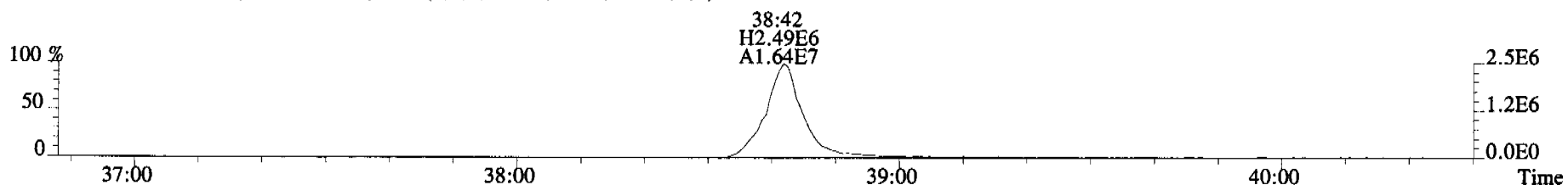
425.7737 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



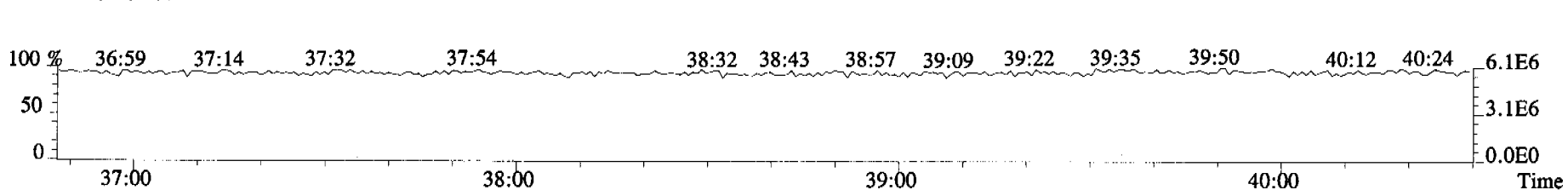
435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



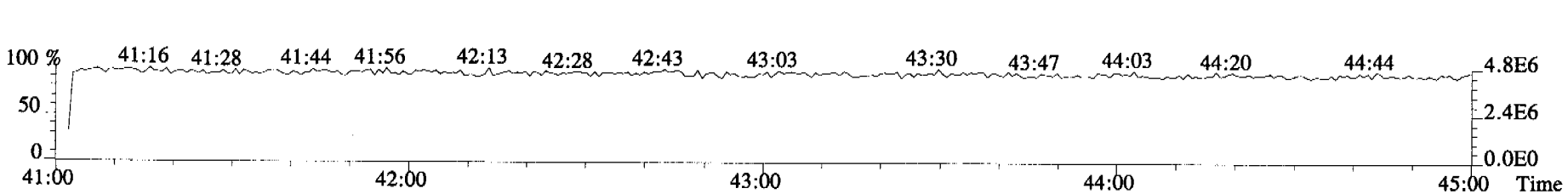
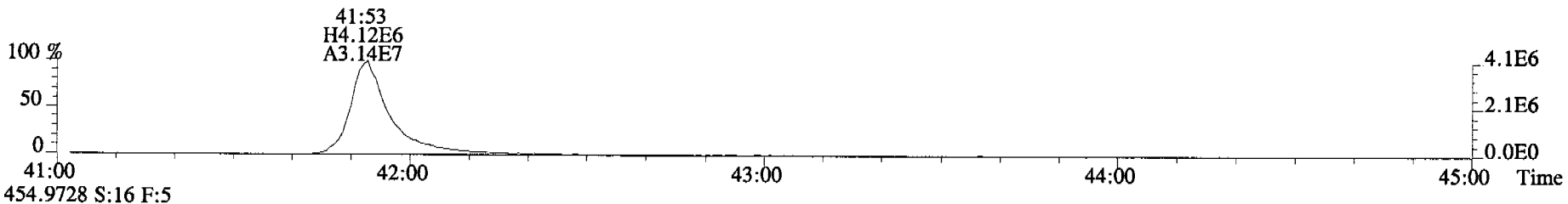
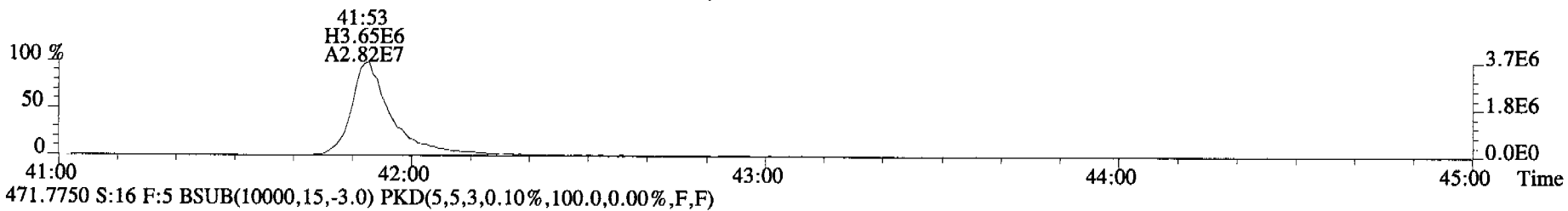
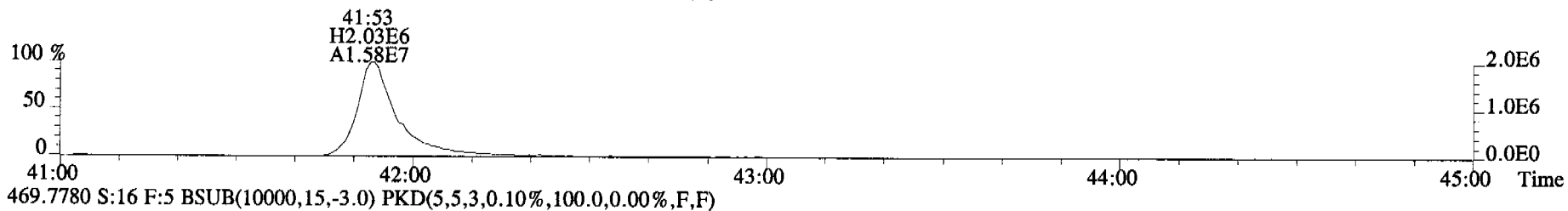
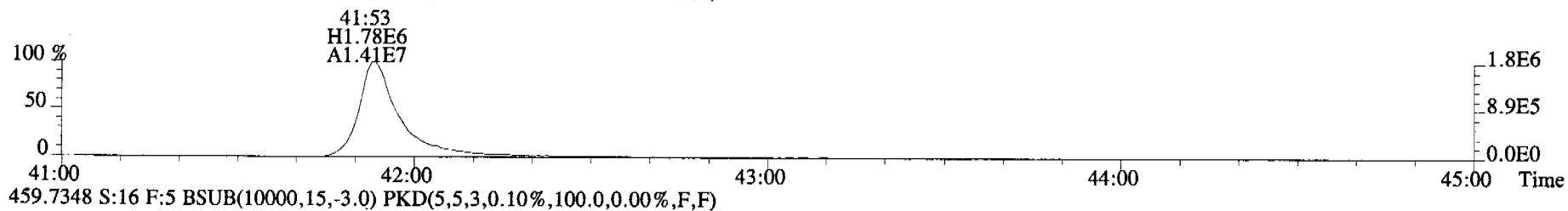
437.8140 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



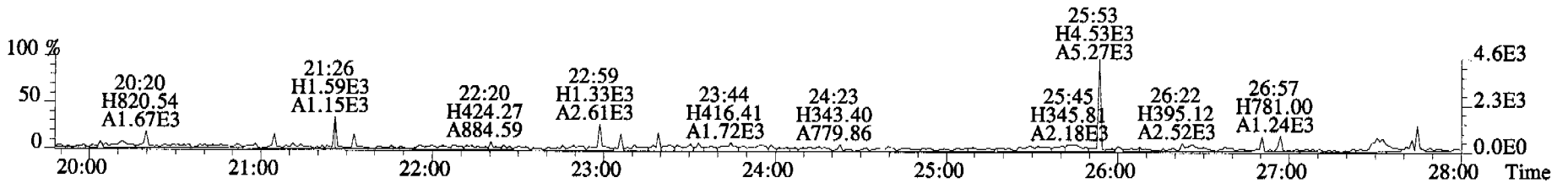
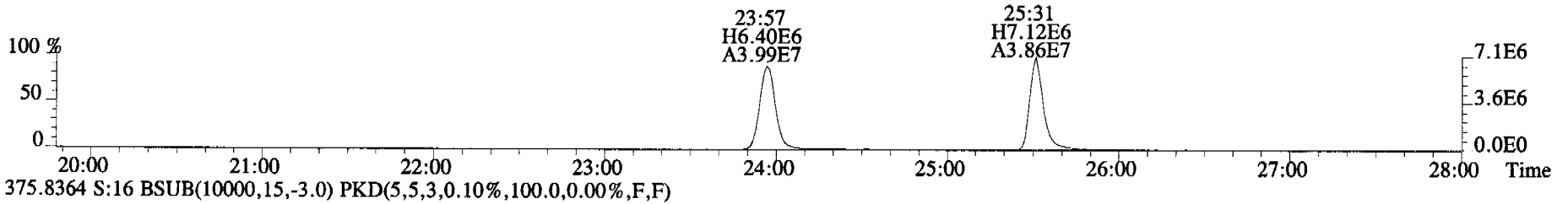
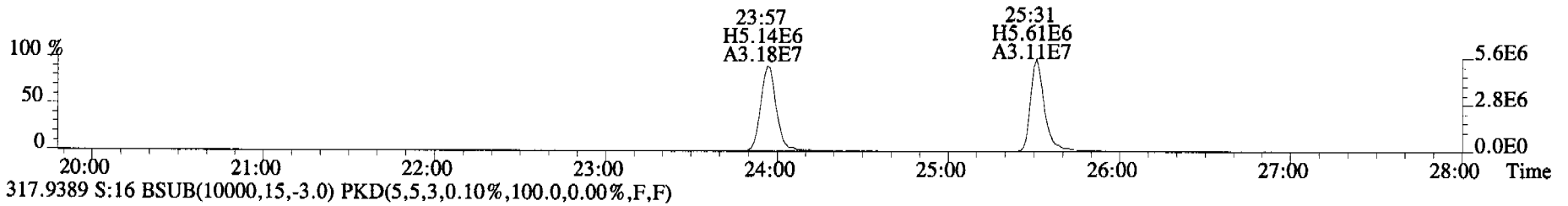
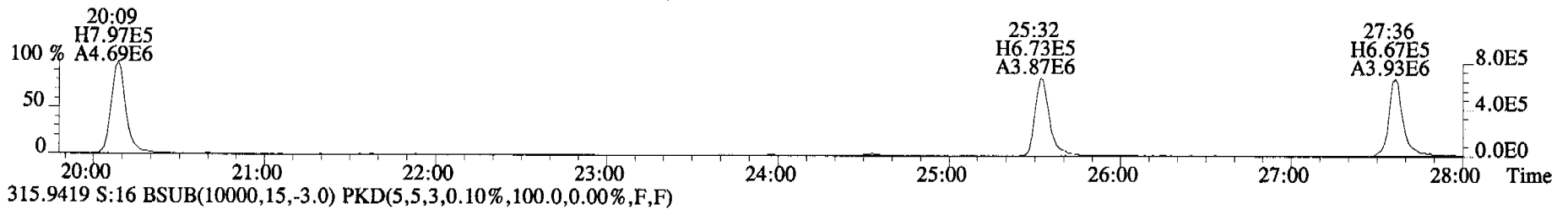
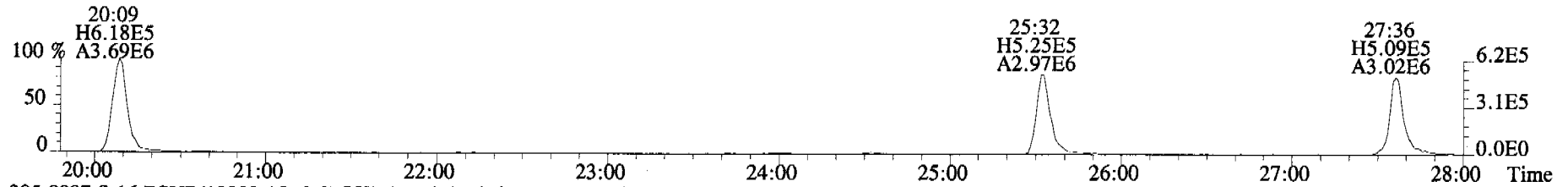
430.9728 S:16 F:4



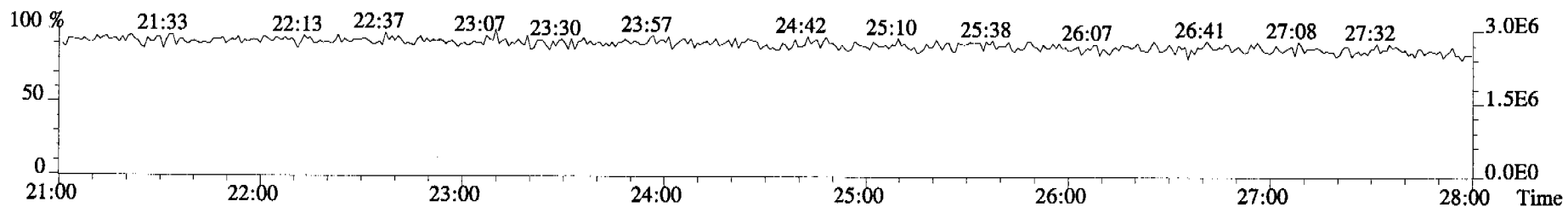
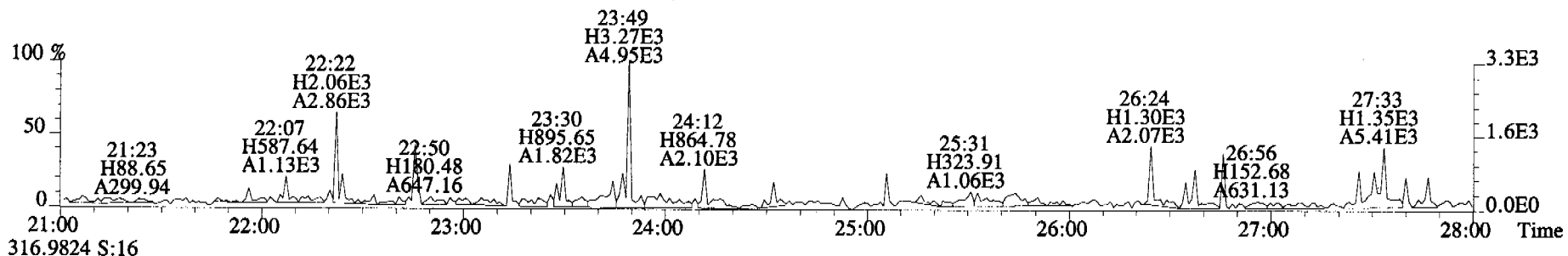
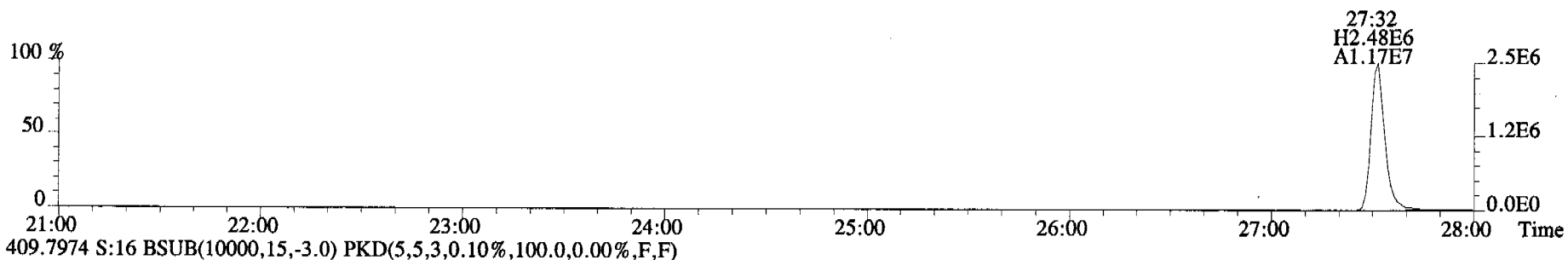
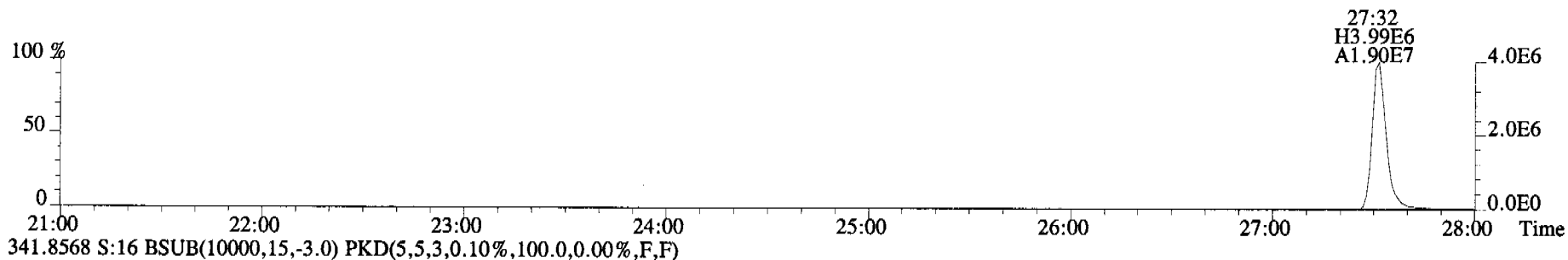
File:060920C2 #1-345 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



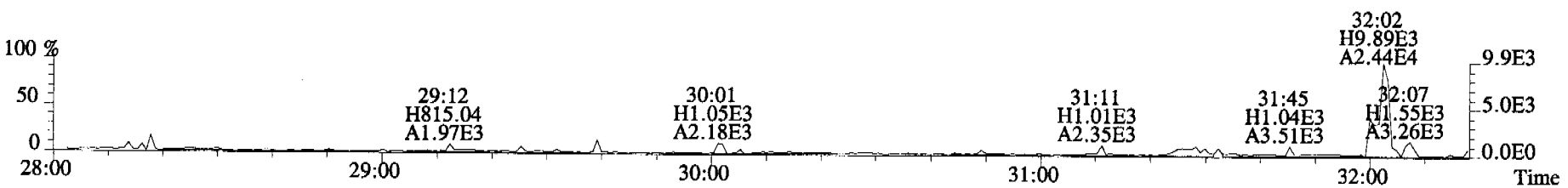
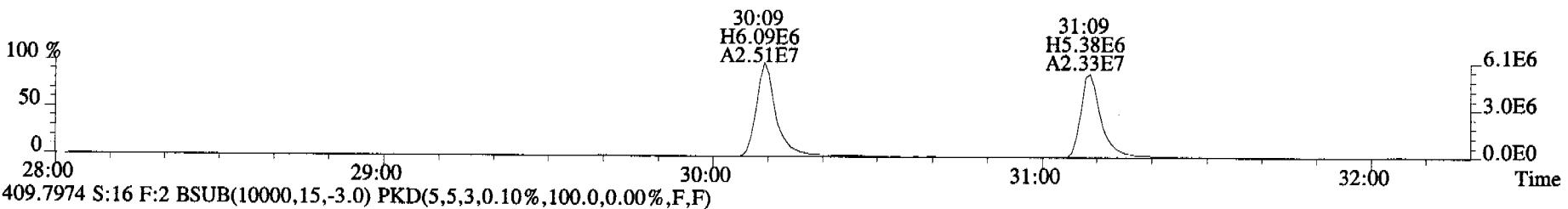
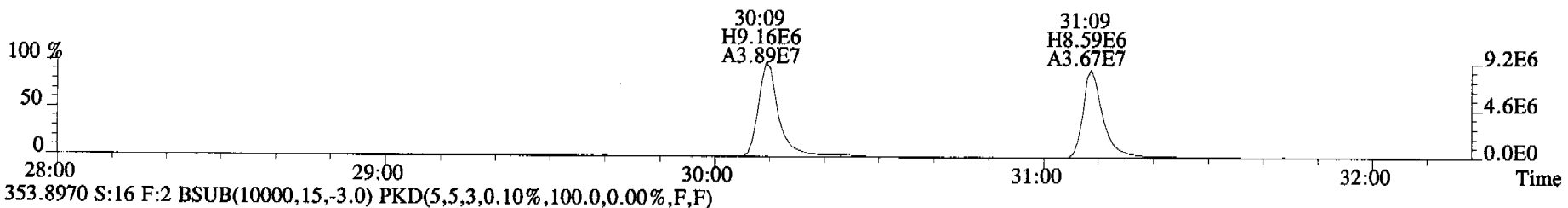
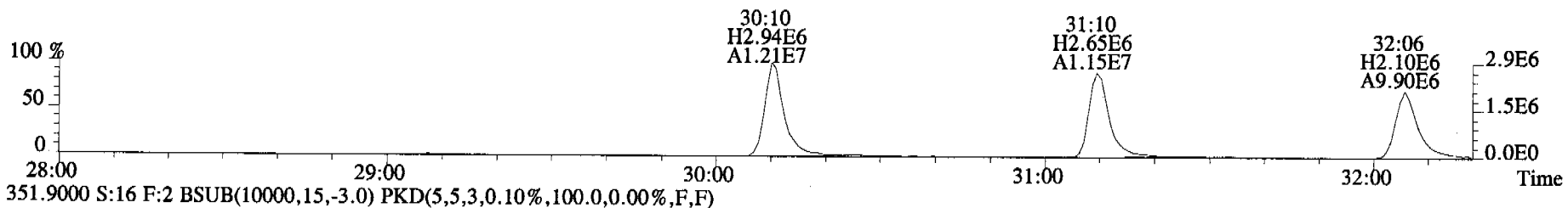
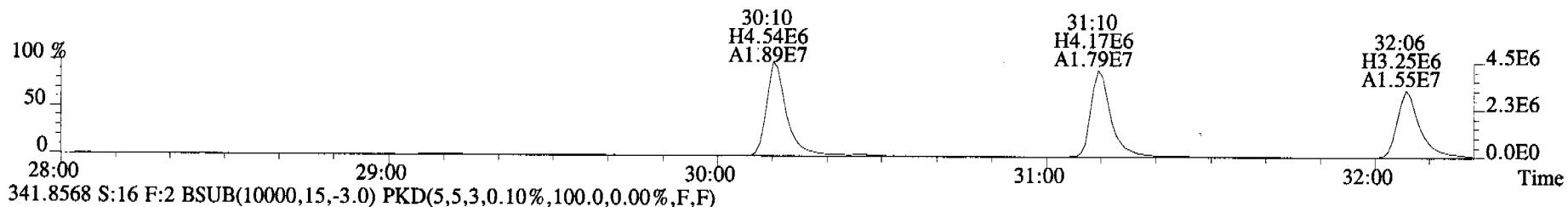
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
303.9016 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



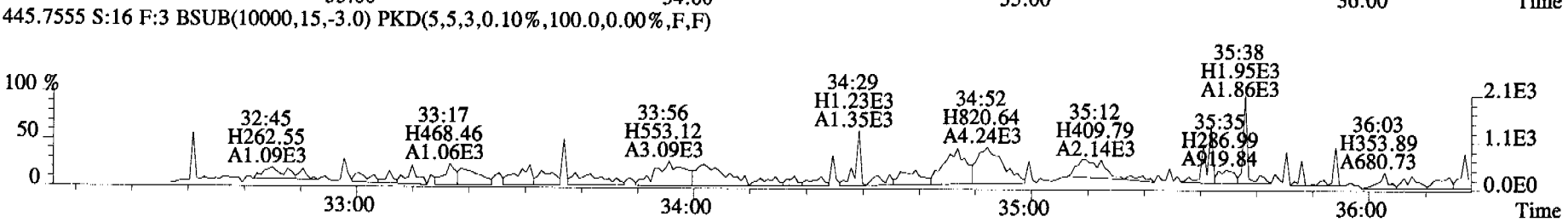
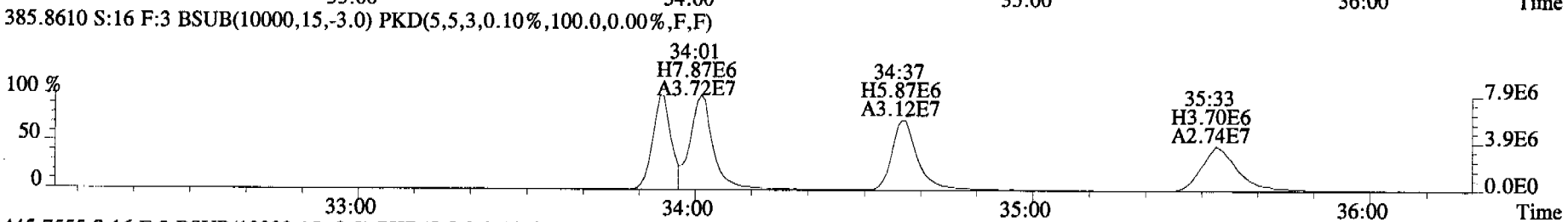
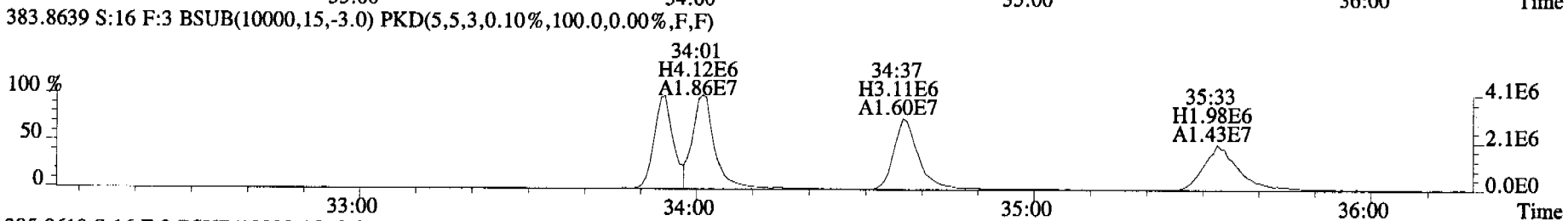
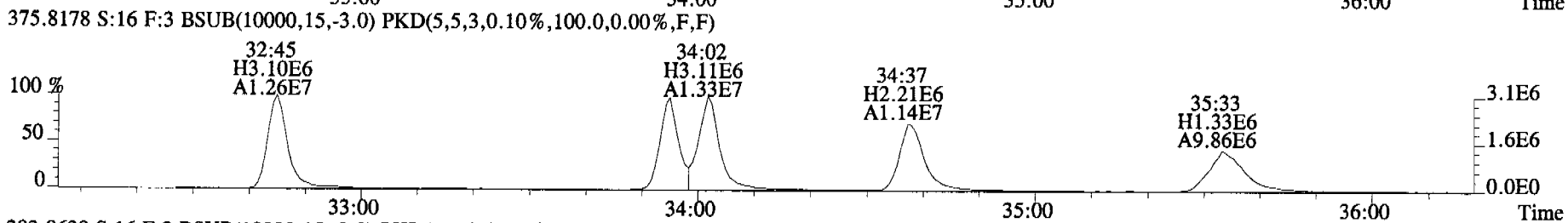
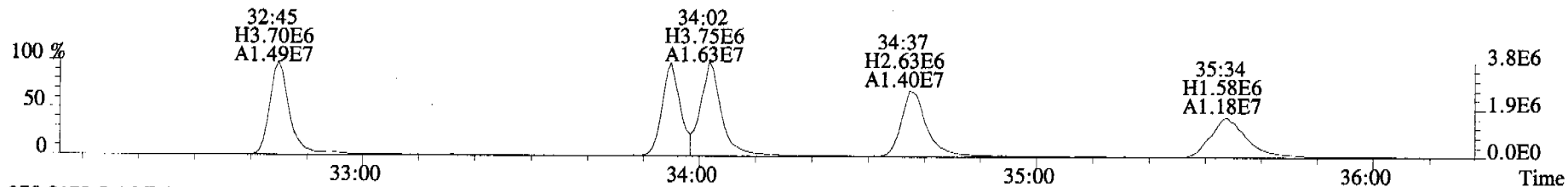
File:060920C2 #1-546 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



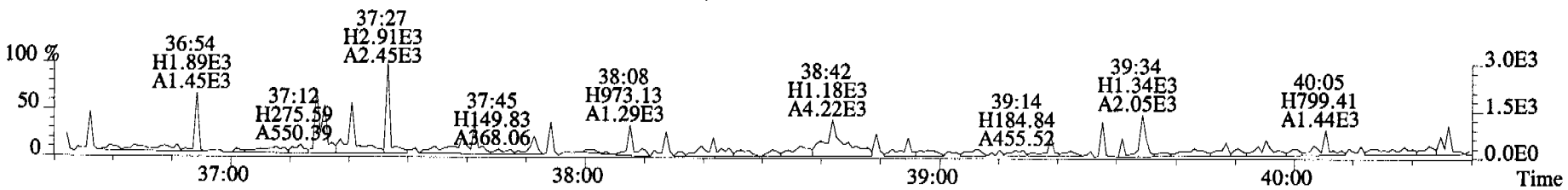
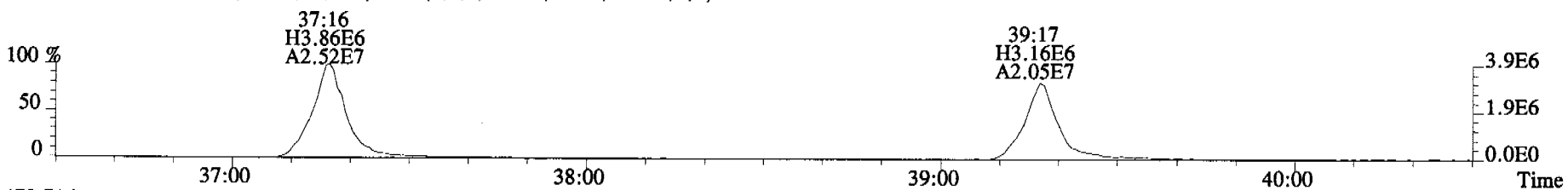
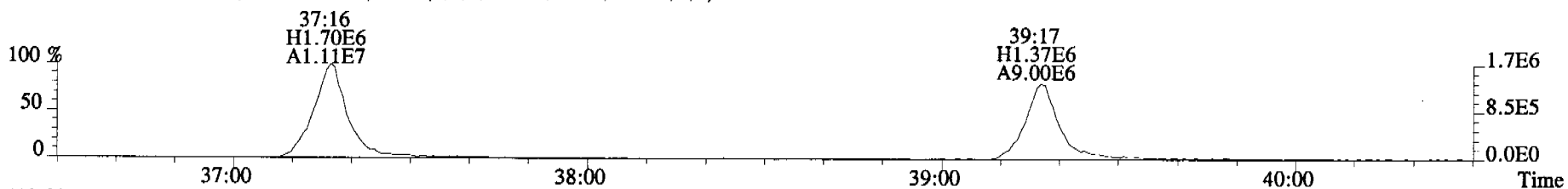
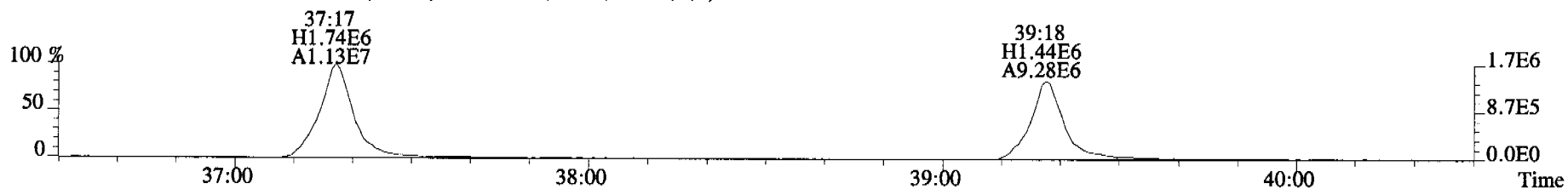
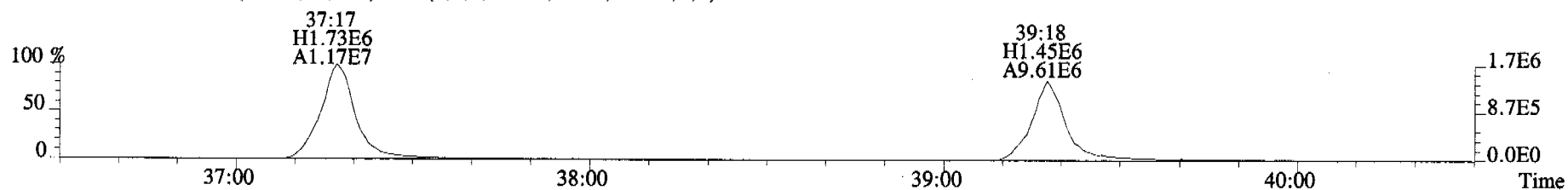
File:060920C2 #1-324 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



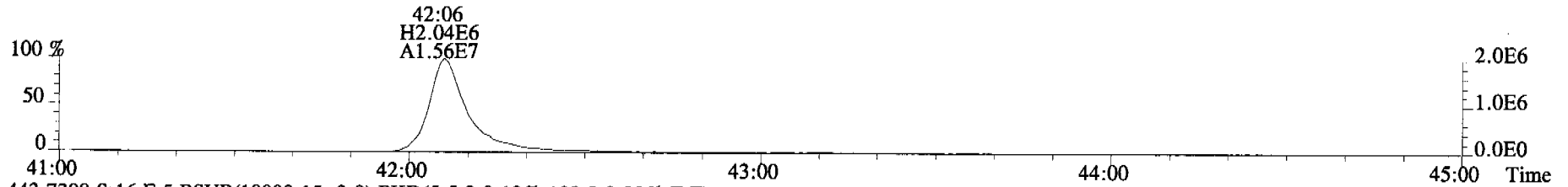
File:060920C2 #1-363 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



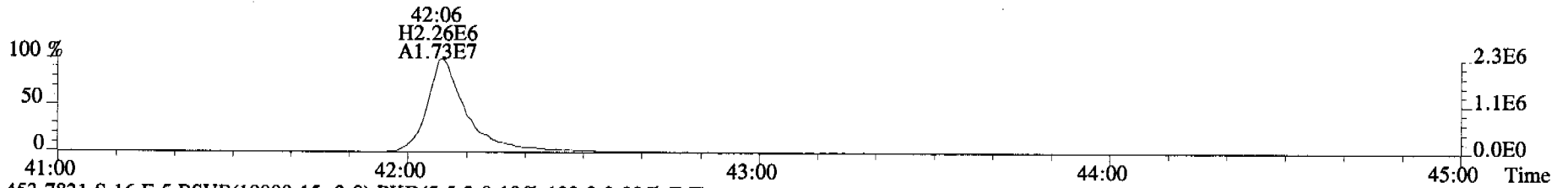
File:060920C2 #1-400 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



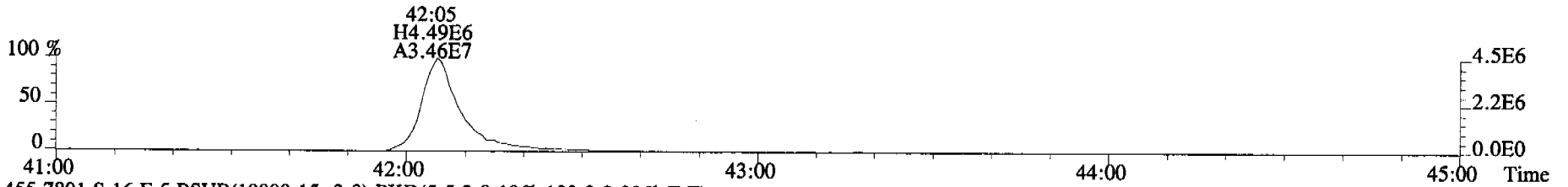
File:060920C2 #1-345 Acq:21-SEP-2006 03:38:30 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#16 File Text:Alta Analytical Laboratory Text:ST060920C2-2 1613 CS3 060110H Exp:OCDD\_DB5  
 441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



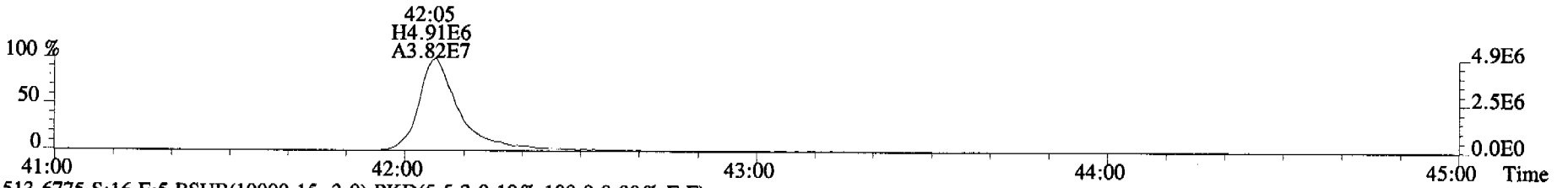
443.7398 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



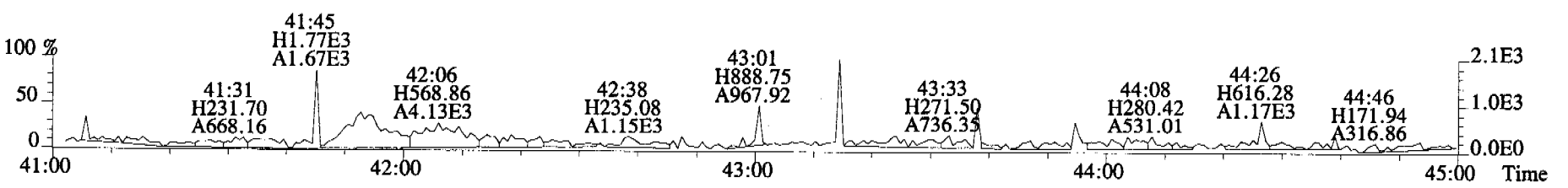
453.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



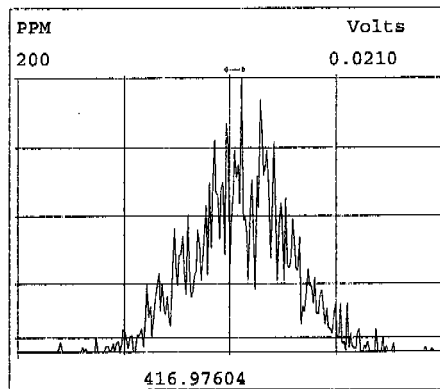
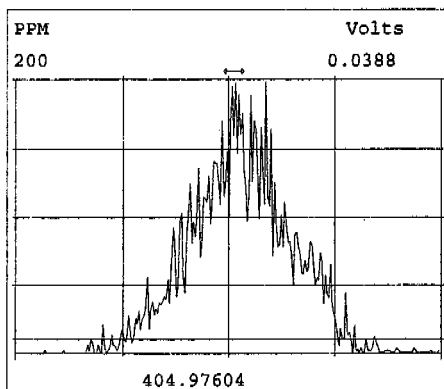
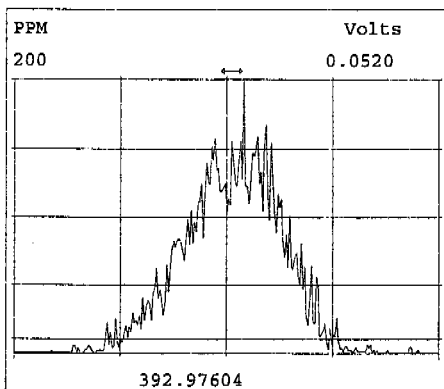
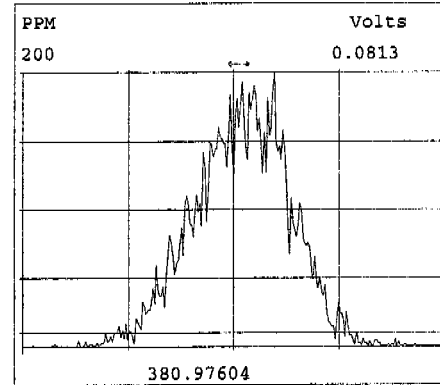
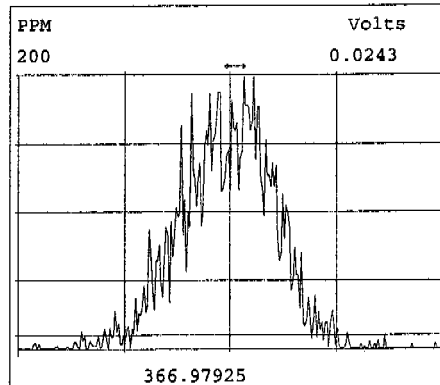
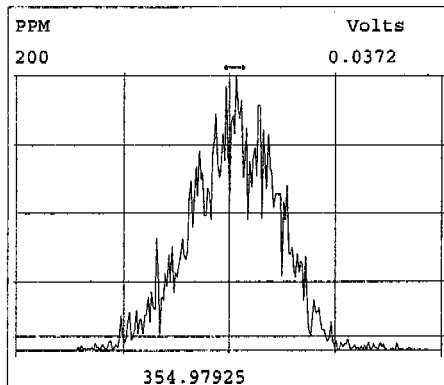
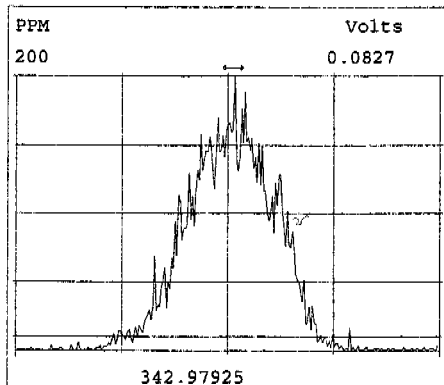
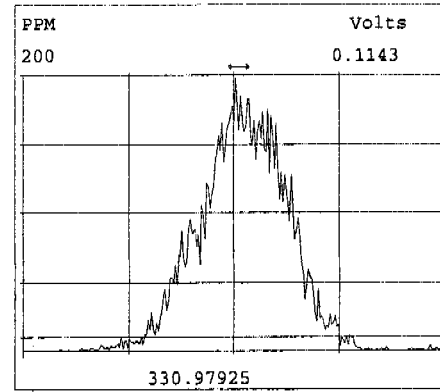
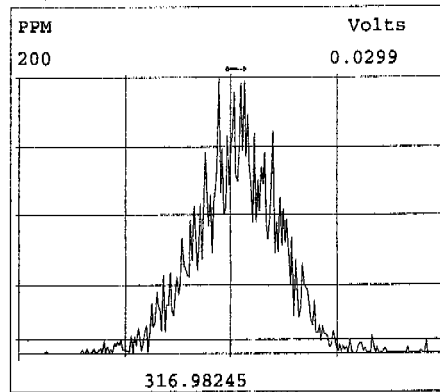
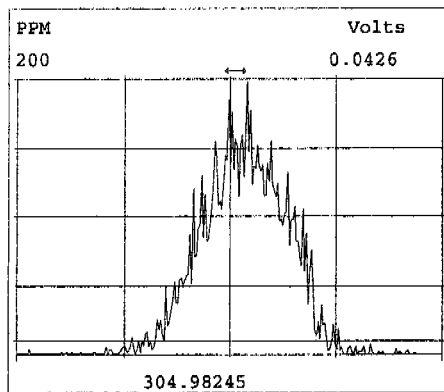
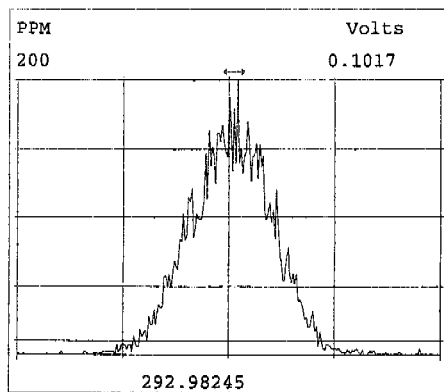
455.7801 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

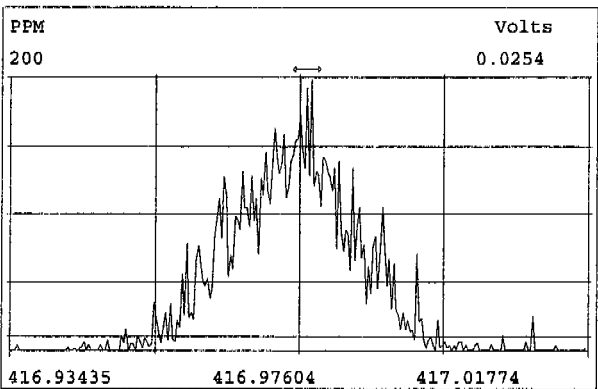
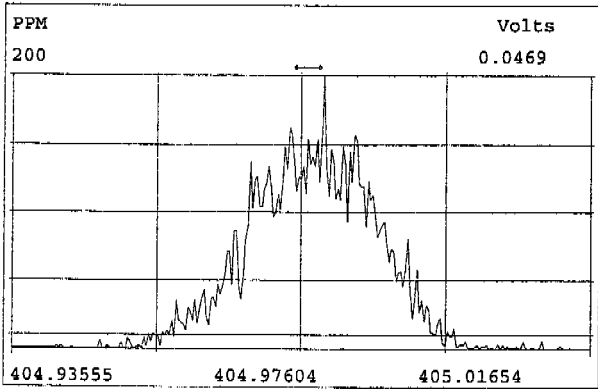
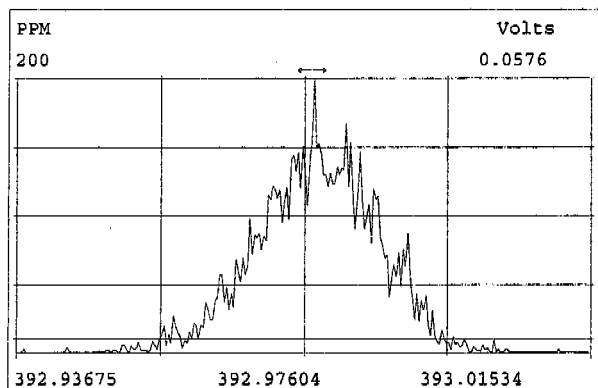
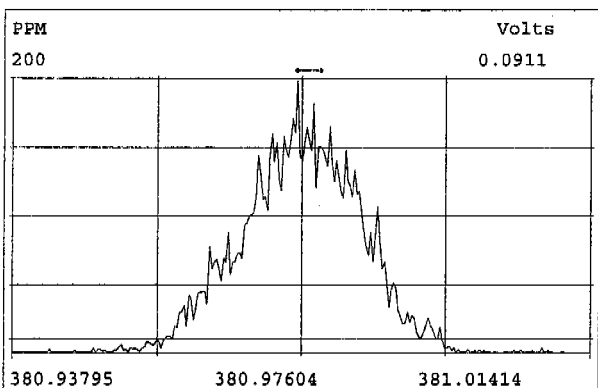
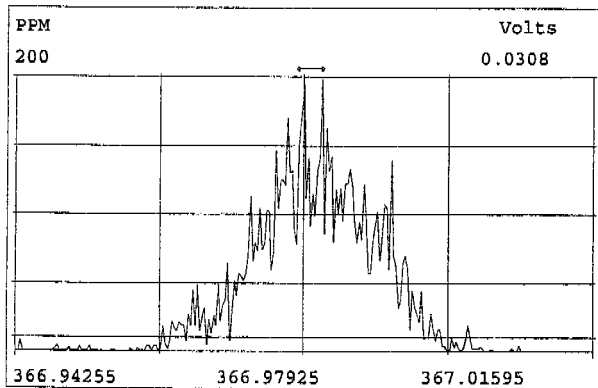
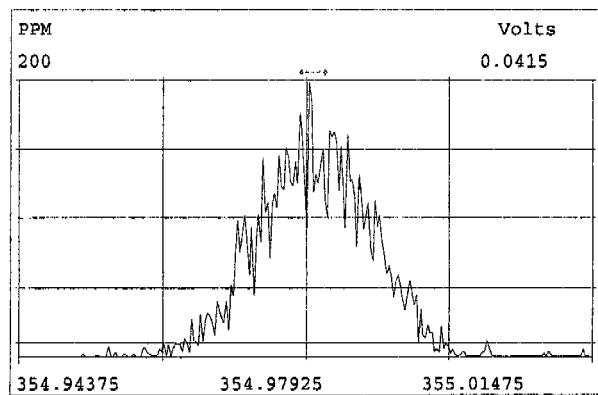
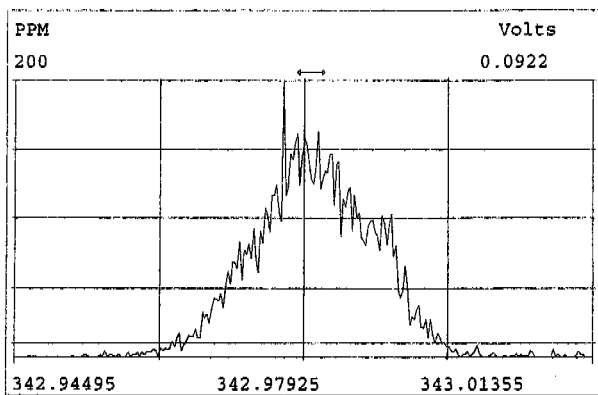
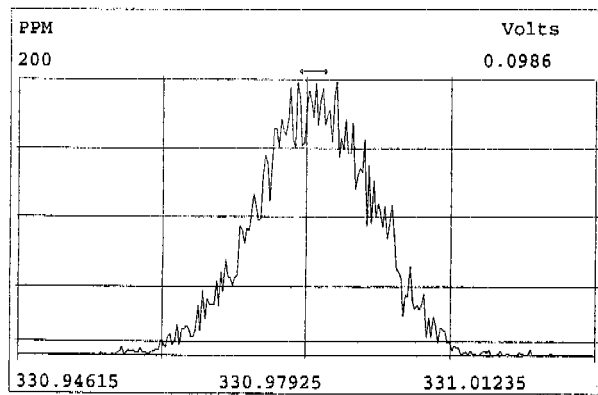


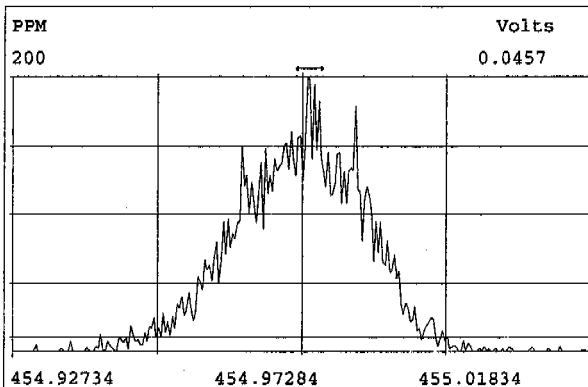
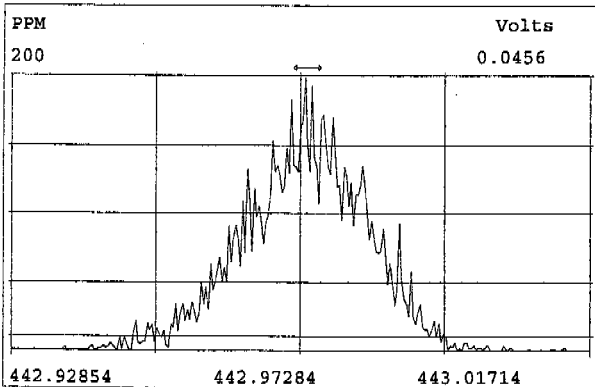
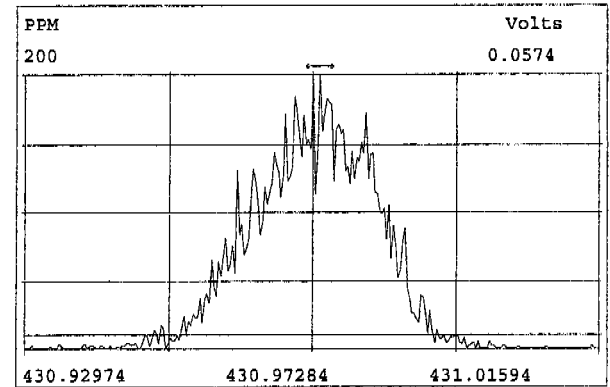
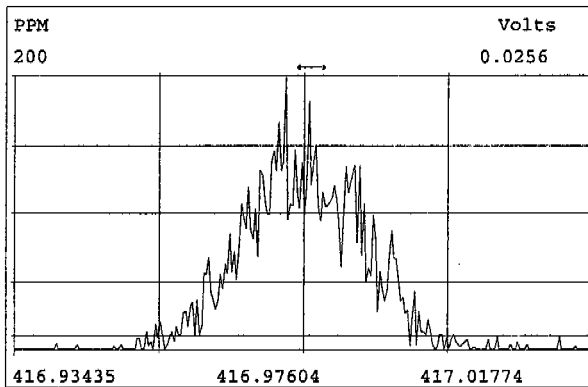
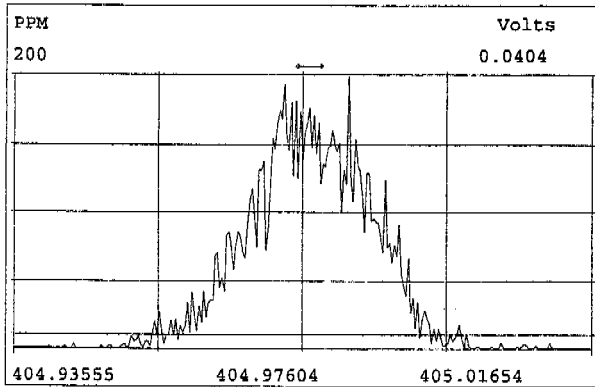
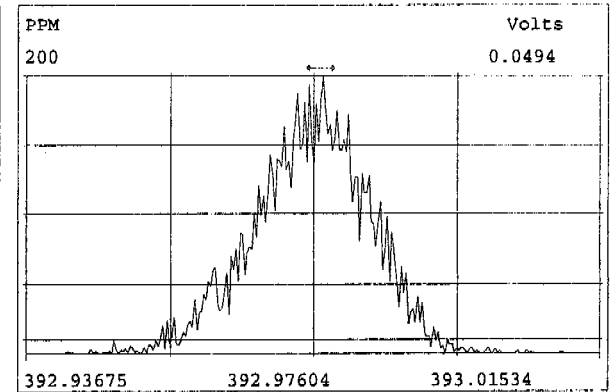
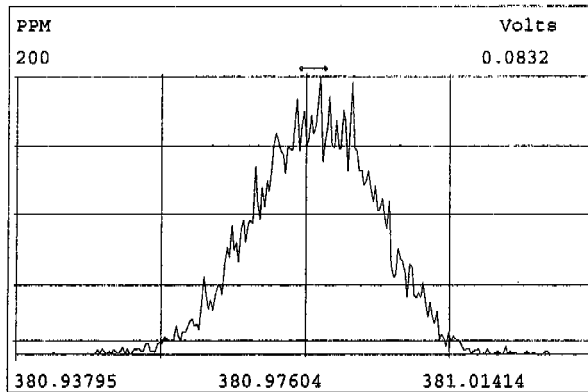
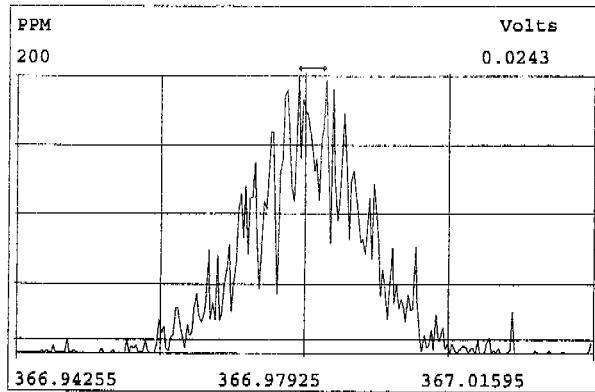
513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

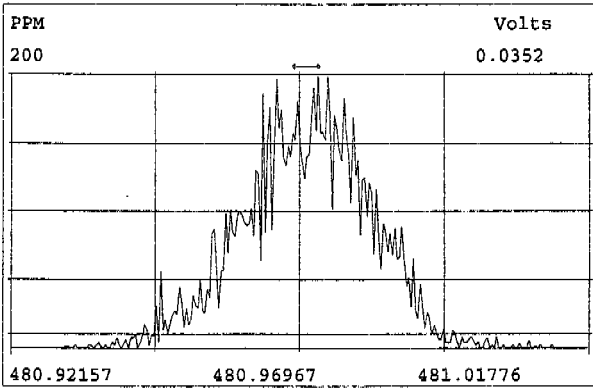
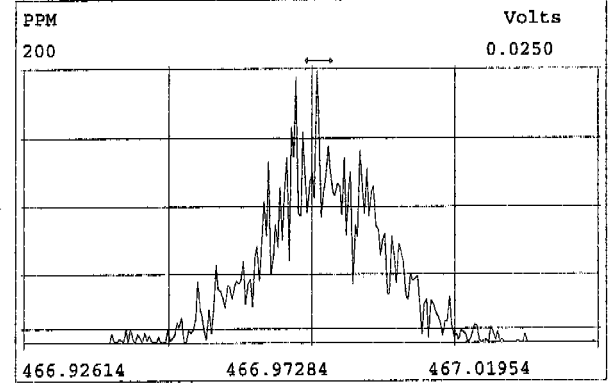
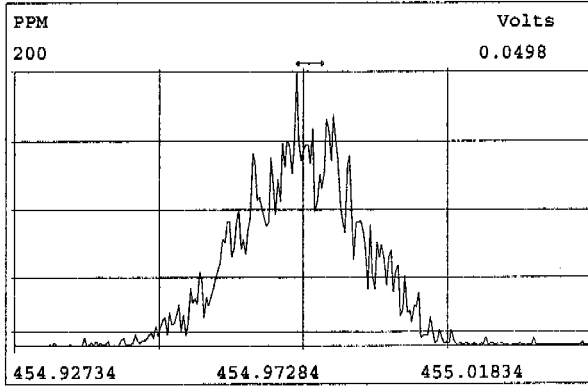
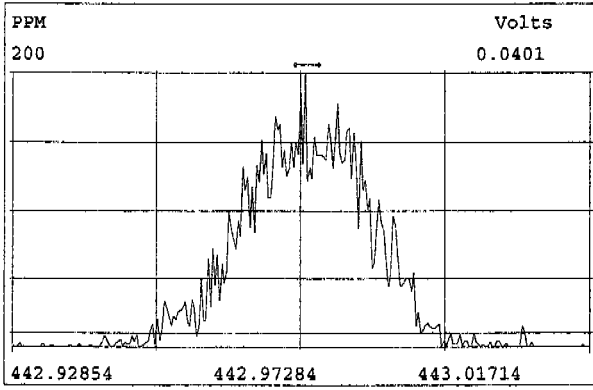
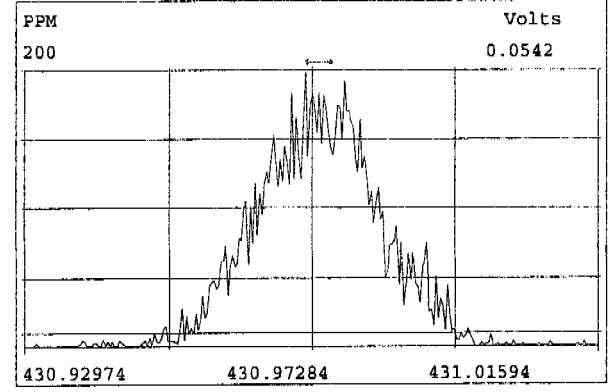
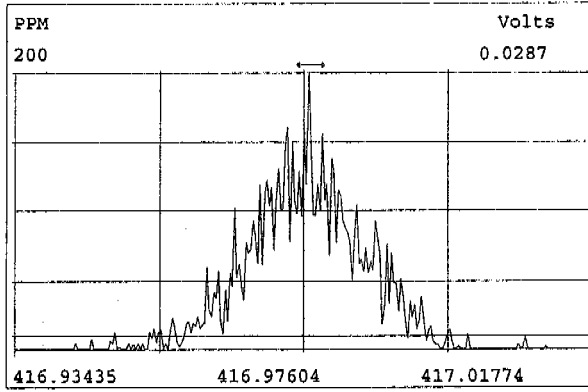
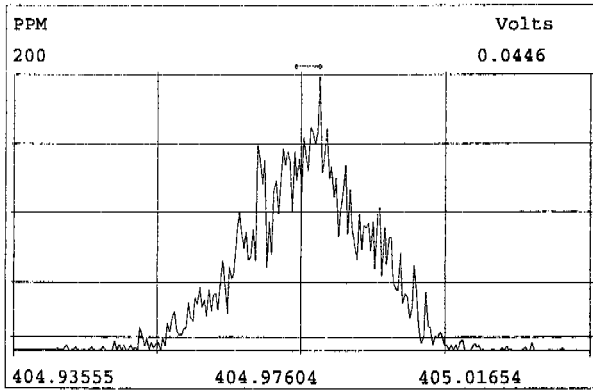


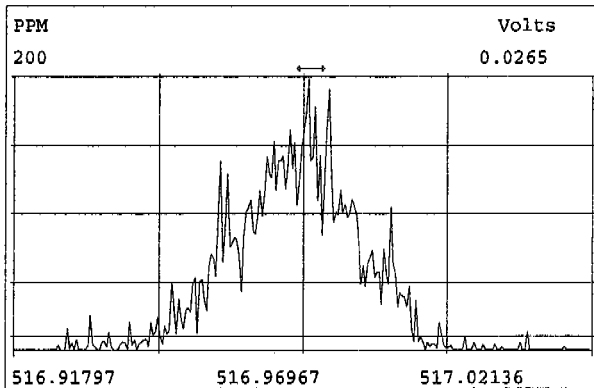
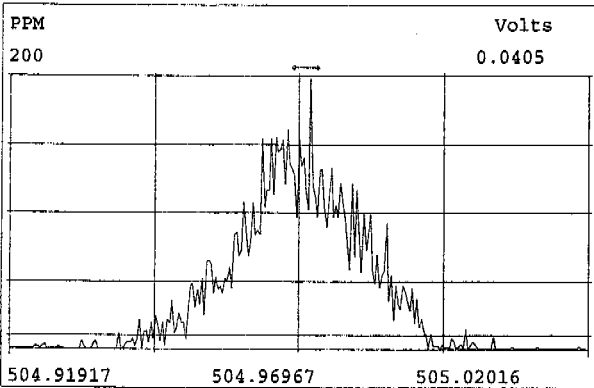
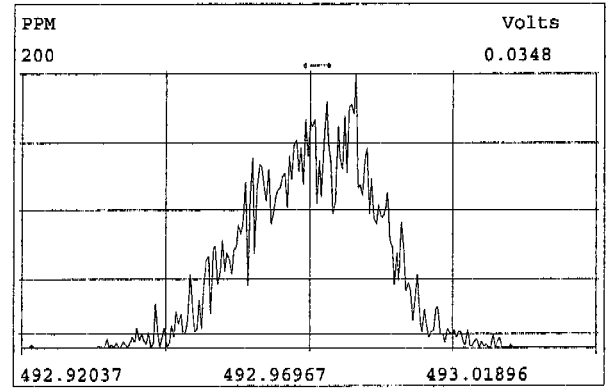
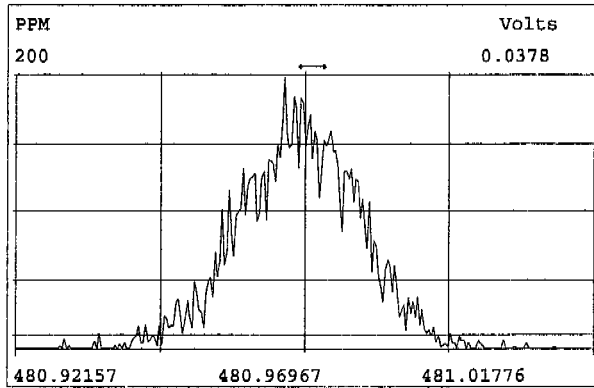
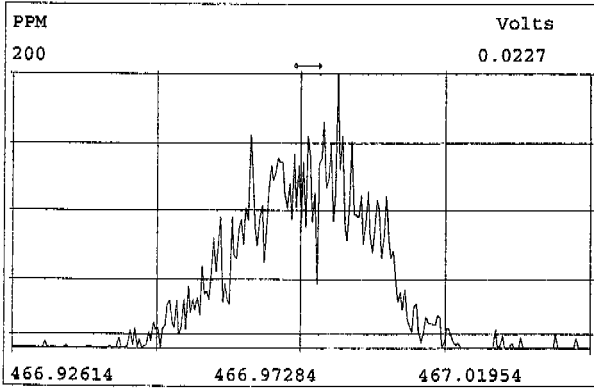
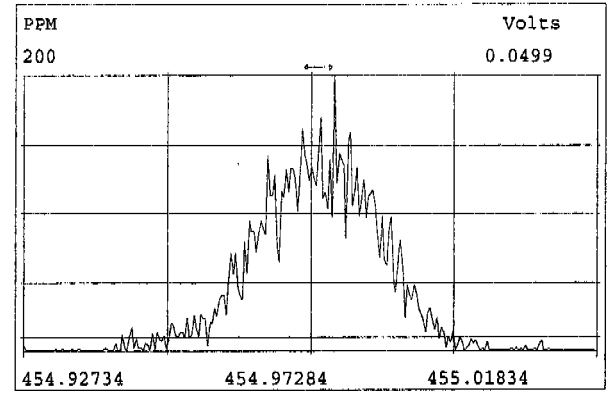
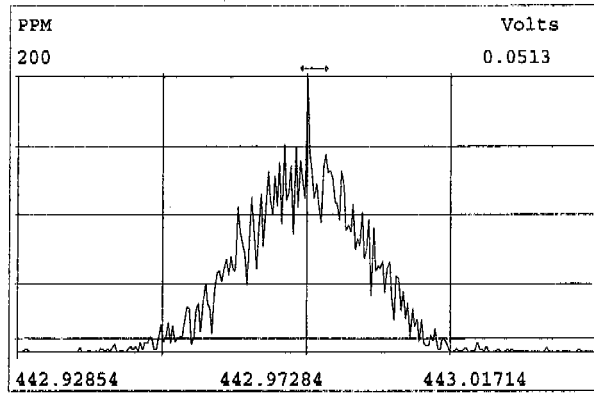
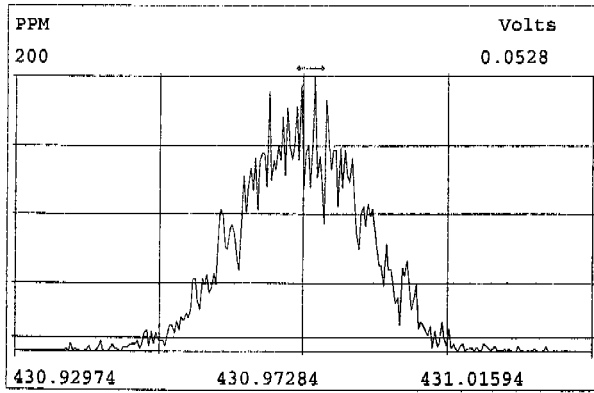












## **SAMPLE DATA**

| 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 $\eta$ | *    |      | 1130  | 2.5 | 1.20  | Total Tetra-Dioxins | *      | *      |      | 1130  | 1.20  |
| 1,2,3,7,8-PeCDD     | *    | * n | 1.03 | NotF $\eta$ | *    |      | 1970  | 2.5 | 1.85  | Total Penta-Dioxins | *      | *      |      | 4610  | 4.32  |
| 1,2,3,4,7,8-HxCDD   | *    | * n | 1.13 | NotF $\eta$ | *    |      | 775   | 2.5 | 1.14  | Total Hexa-Dioxins  | *      | *      |      | 775   | 1.16  |
| 1,2,3,6,7,8-HxCDD   | *    | * n | 1.03 | NotF $\eta$ | *    |      | 775   | 2.5 | 1.19  | Total Hepta-Dioxins | *      | *      |      | 1030  | 2.51  |
| 1,2,3,7,8,9-HxCDD   | *    | * n | 1.12 | NotF $\eta$ | *    |      | 775   | 2.5 | 1.13  | Total Tetra-Furans  | *      | *      |      | 1530  | 1.33  |
| 1,2,3,4,6,7,8-HpCDD | *    | * n | 1.02 | NotF $\eta$ | *    |      | 1030  | 2.5 | 2.51  | Total Penta-Furans  | 0.0000 | 0.0000 |      | 3110  | 3.42  |
| OCDD                | *    | * n | 1.06 | NotF $\eta$ | *    |      | 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 $\eta$ | *    |      | 1530  | 2.5 | 1.33  |                     |        |        |      |       |       |
| 1,2,3,7,8-PeCDF     | *    | * n | 1.01 | NotF $\eta$ | *    |      | 1810  | 2.5 | 1.97  |                     |        |        |      |       |       |
| 2,3,4,7,8-PeCDF     | *    | * n | 1.02 | NotF $\eta$ | *    |      | 1810  | 2.5 | 2.01  |                     |        |        |      |       |       |
| 1,2,3,4,7,8-HxCDF   | *    | * n | 1.15 | NotF $\eta$ | *    |      | 961   | 2.5 | 0.613 |                     |        |        |      |       |       |
| 1,2,3,6,7,8-HxCDF   | *    | * n | 1.14 | NotF $\eta$ | *    |      | 961   | 2.5 | 0.579 |                     |        |        |      |       |       |
| 2,3,4,6,7,8-HxCDF   | *    | * n | 1.17 | NotF $\eta$ | *    |      | 961   | 2.5 | 0.710 |                     |        |        |      |       |       |
| 1,2,3,7,8,9-HxCDF   | *    | * n | 1.10 | NotF $\eta$ | *    |      | 961   | 2.5 | 1.63  |                     |        |        |      |       |       |
| 1,2,3,4,6,7,8-HpCDF | *    | * n | 1.31 | NotF $\eta$ | *    |      | 868   | 2.5 | 1.21  |                     |        |        |      |       |       |
| 1,2,3,4,7,8,9-HpCDF | *    | * n | 1.33 | NotF $\eta$ | *    |      | 868   | 2.5 | 1.60  |                     |        |        |      |       |       |
| OCDF                | *    | * n | 0.91 | NotF $\eta$ | *    |      | 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

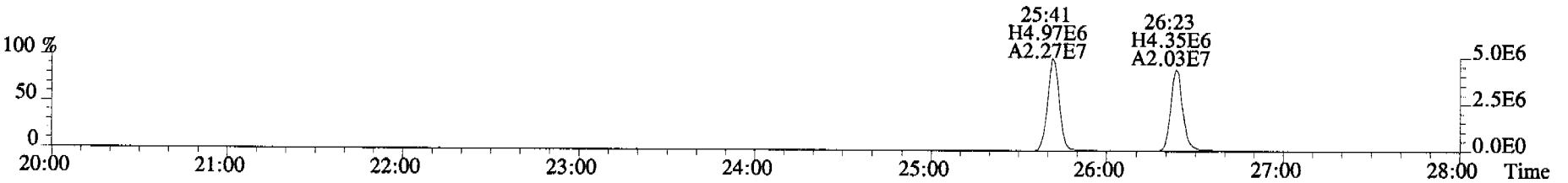
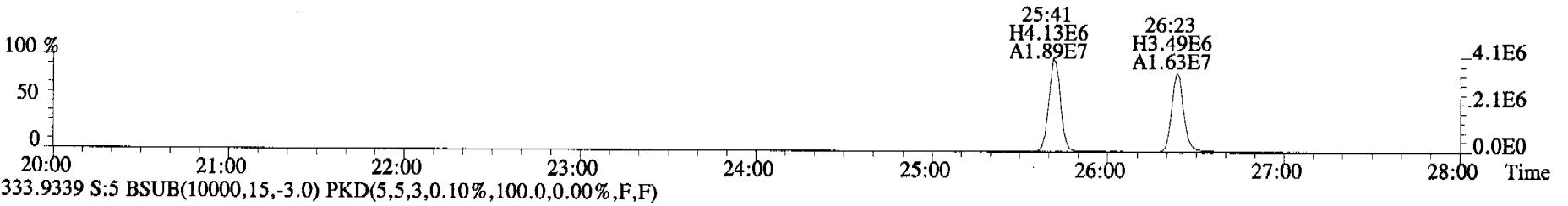
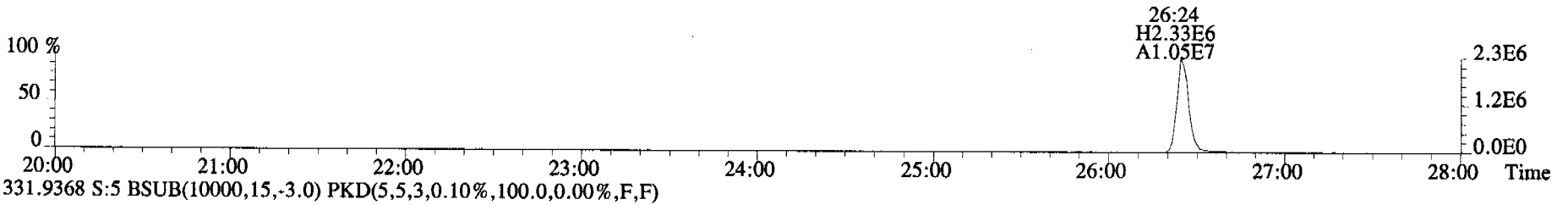
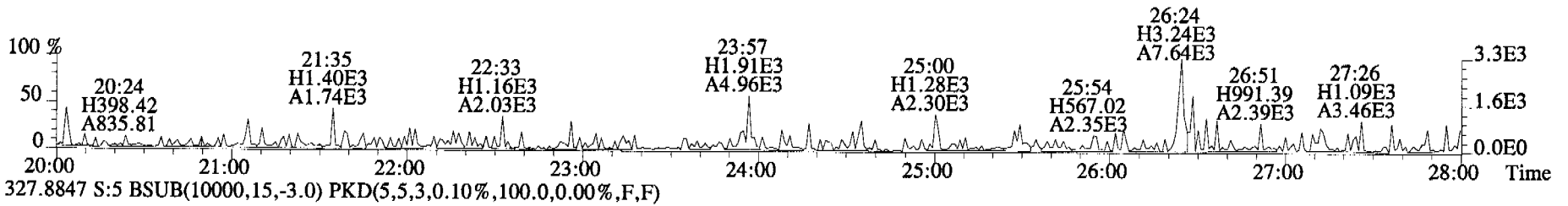
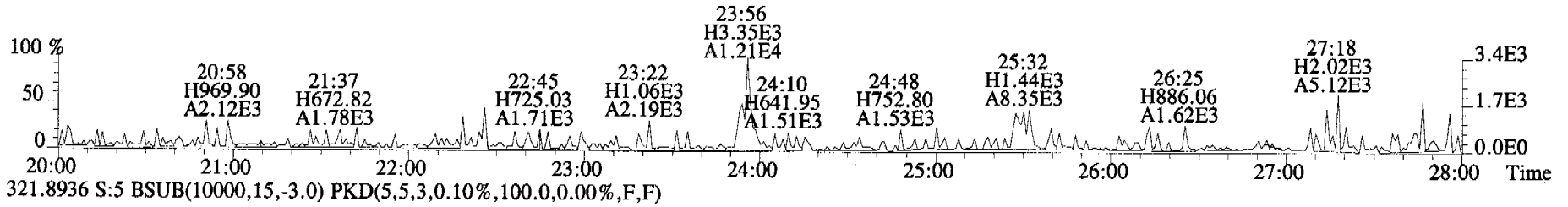
Analyst: MD

Analyst: LL

Date: 9/21/06

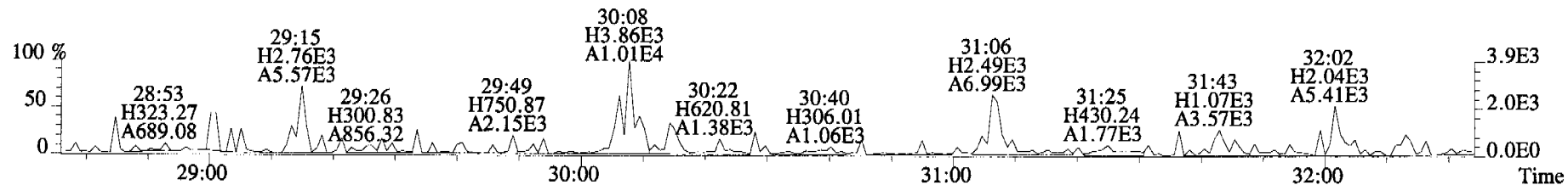
Date: 9/21/06

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)

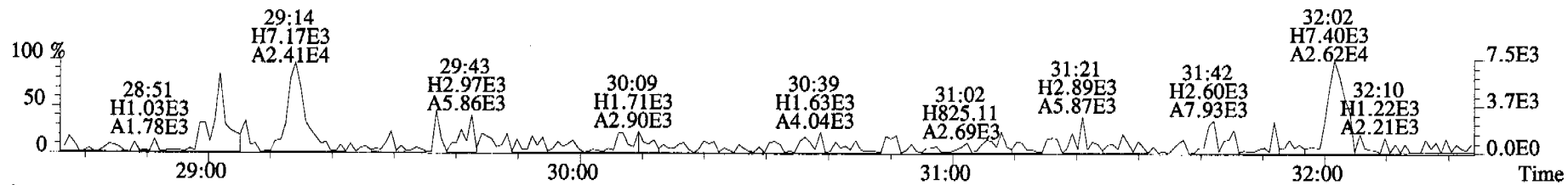




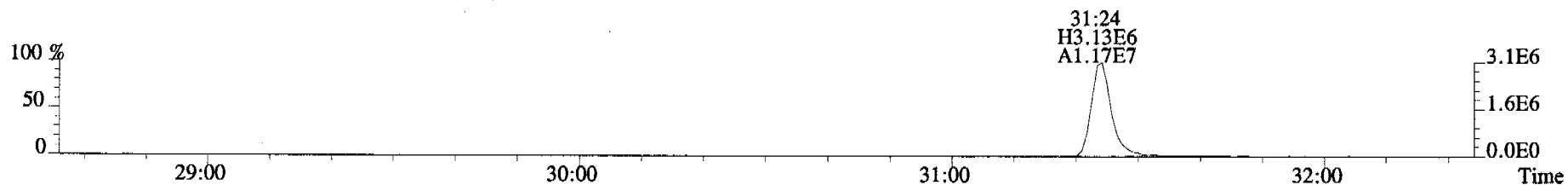
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0\_8381\_MB001 Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



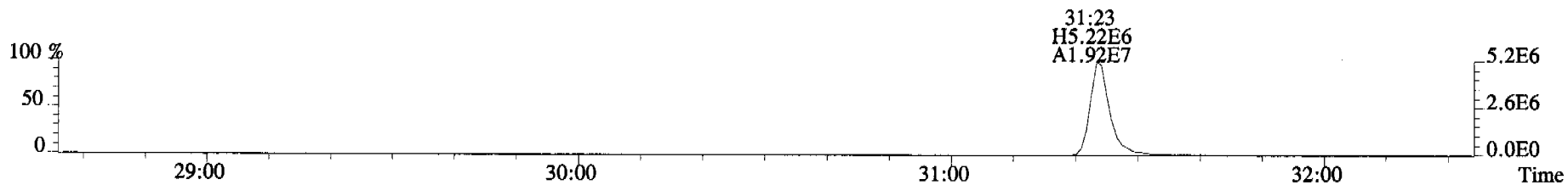
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



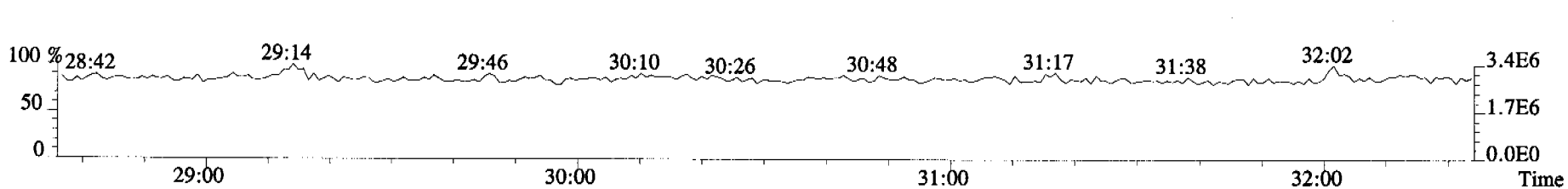
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



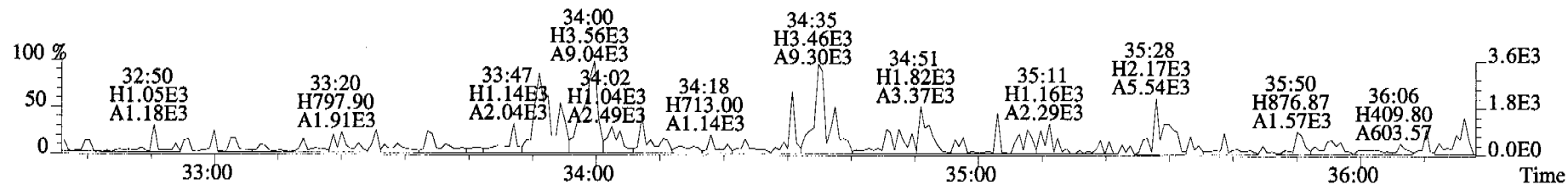
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



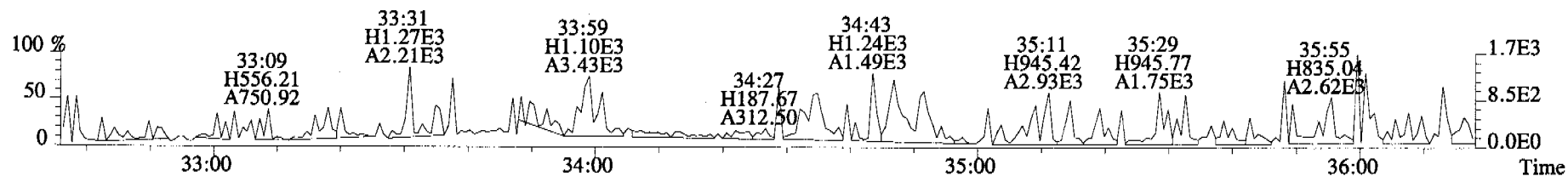
366.9792 S:5 F:2



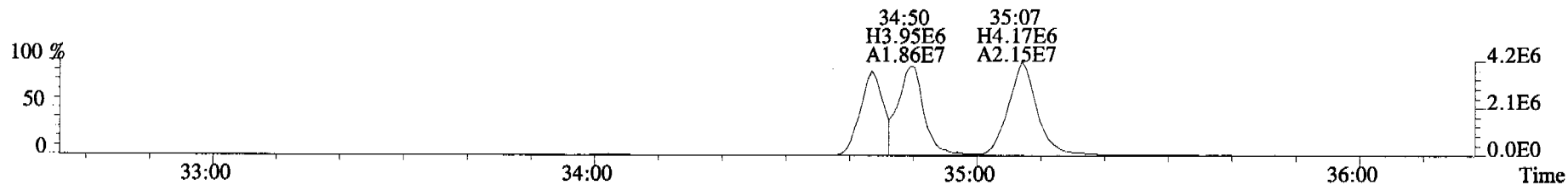
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



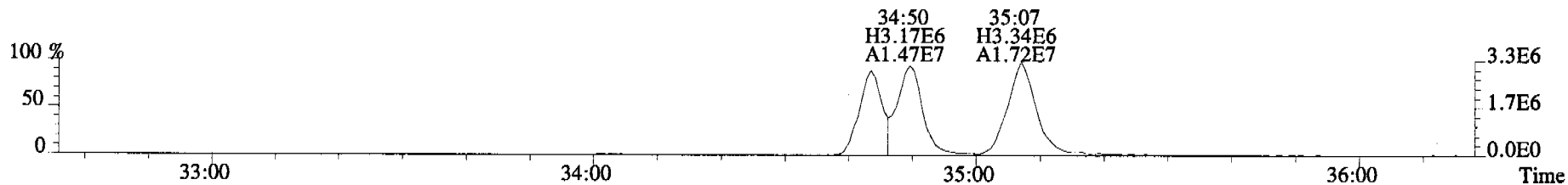
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



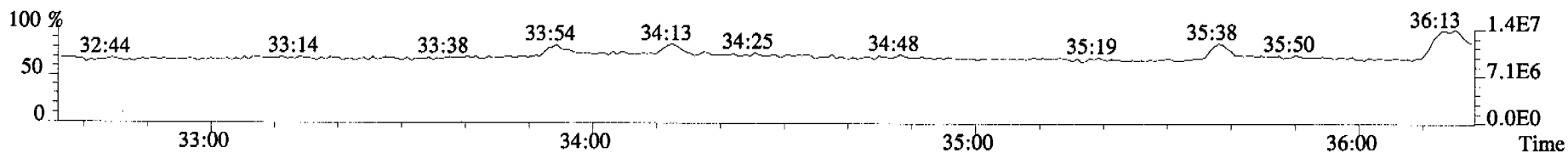
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



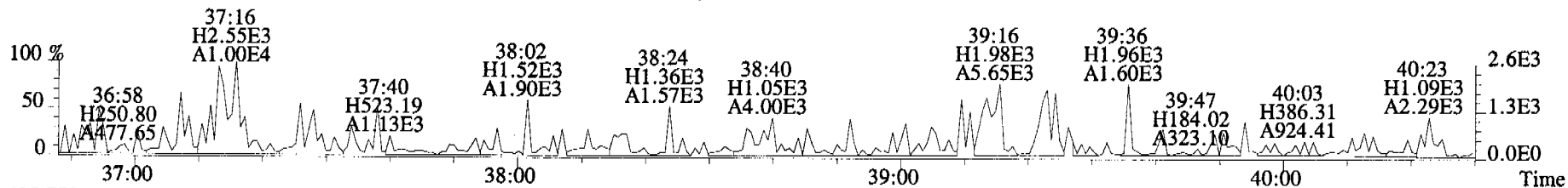
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



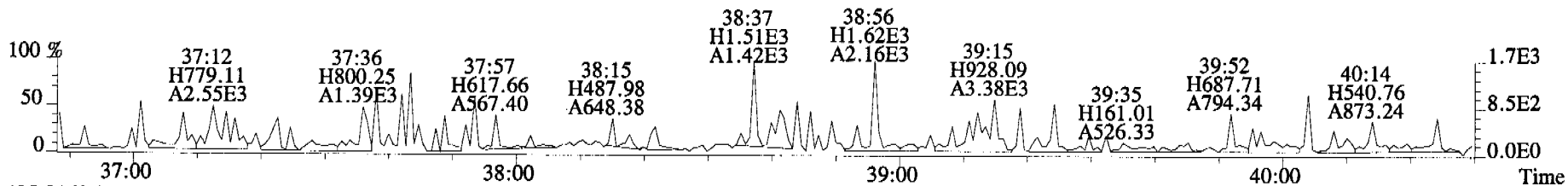
380.9760 S:5 F:3



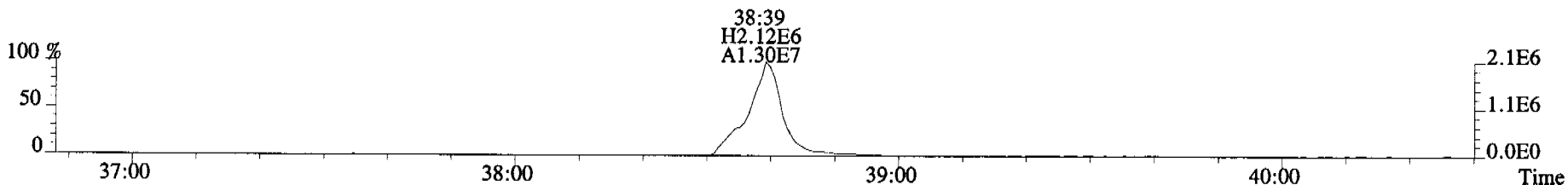
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0\_8381\_MB001\_Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



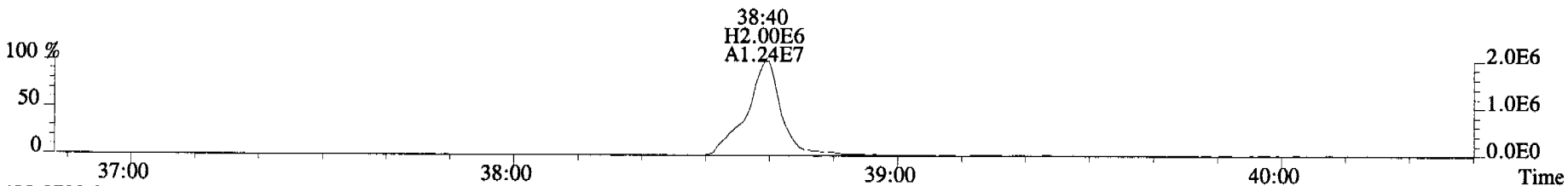
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



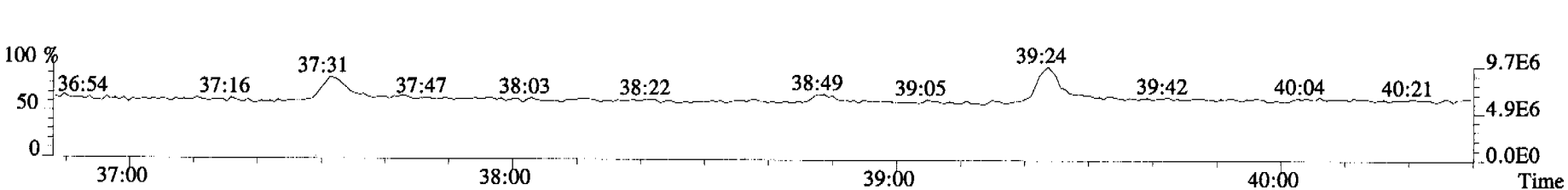
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



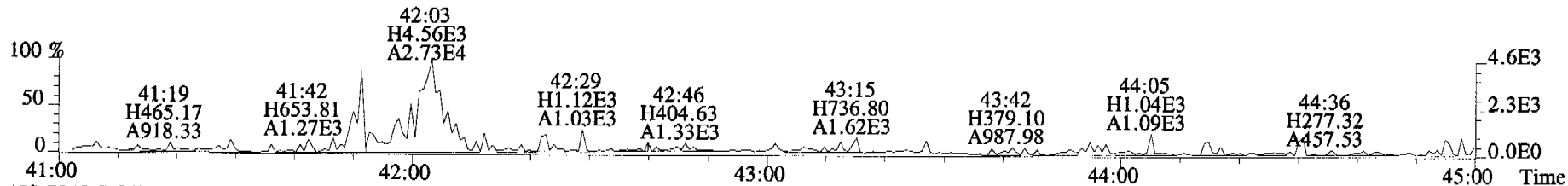
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



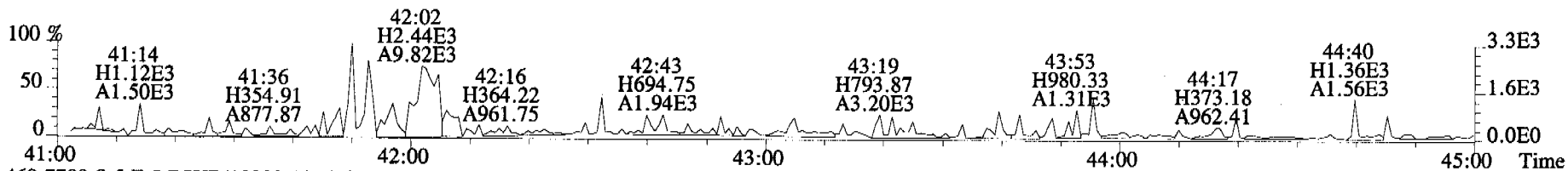
430.9728 S:5 F:4



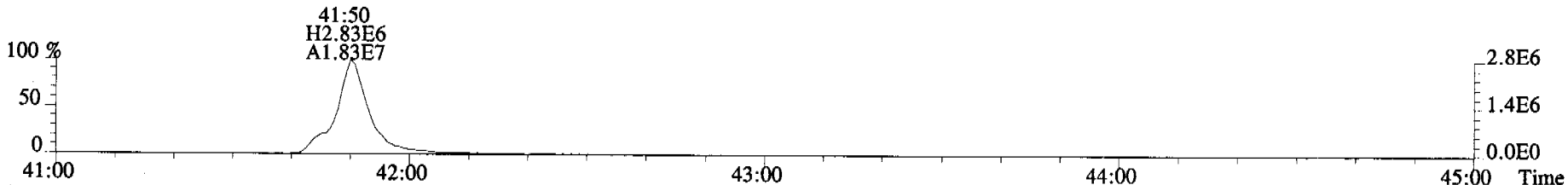
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



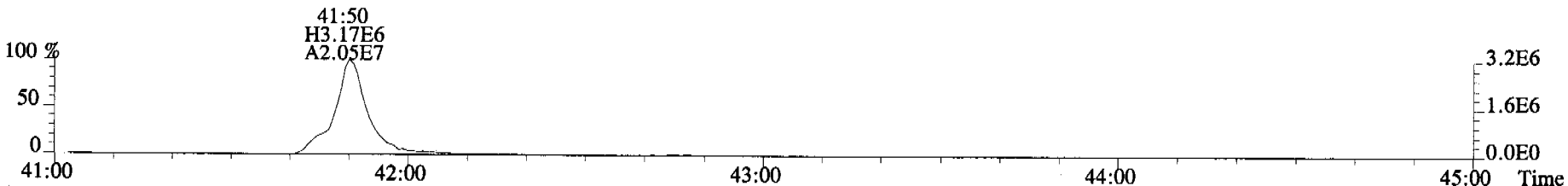
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



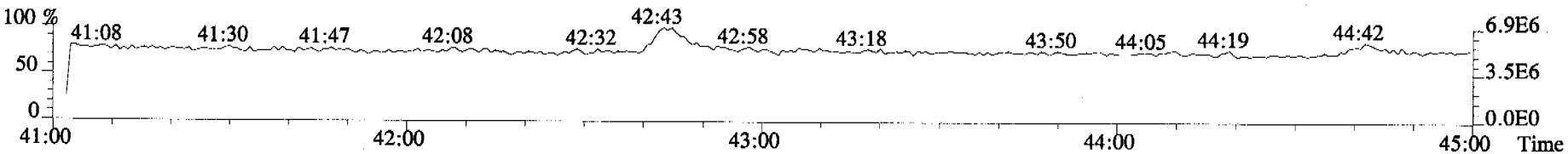
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



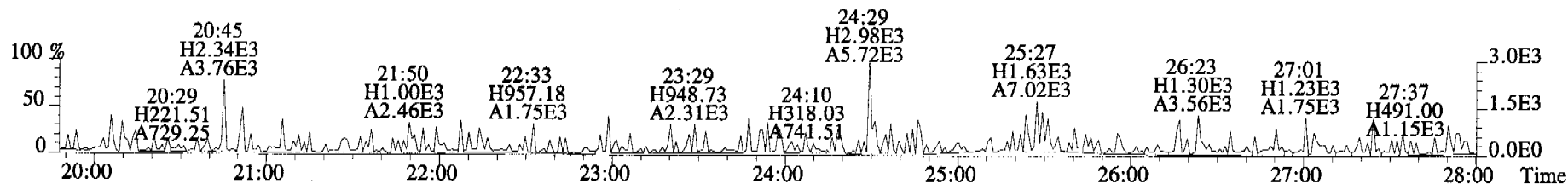
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



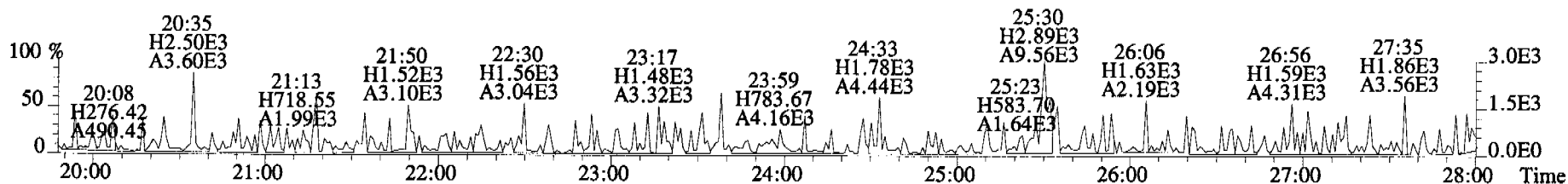
454.9728 S:5 F:5



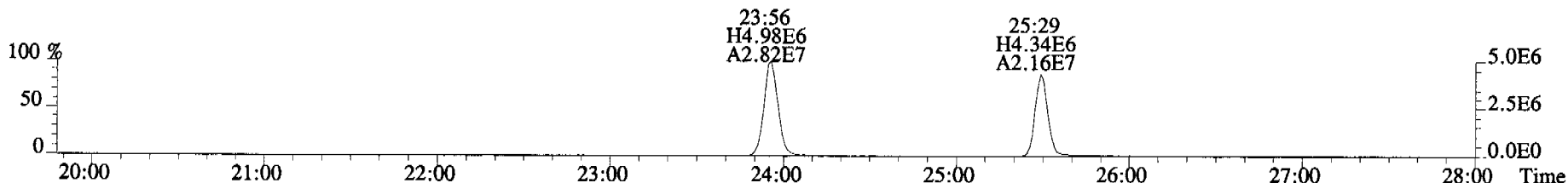
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



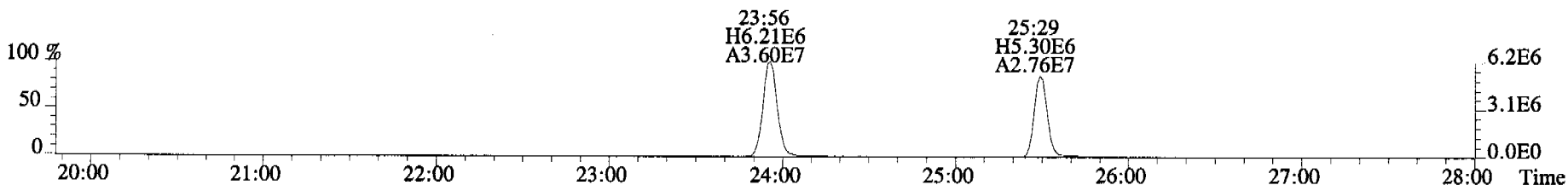
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



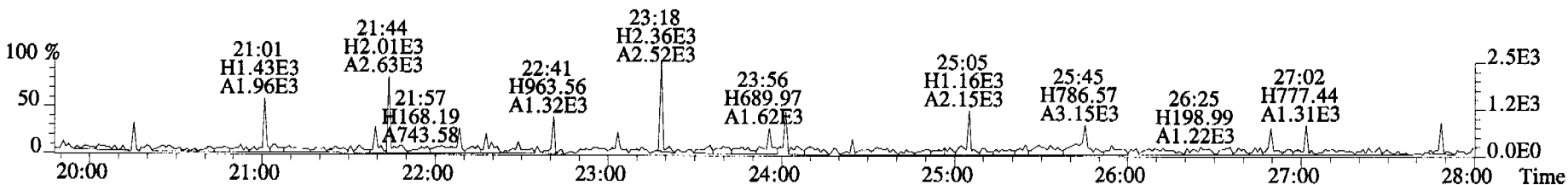
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



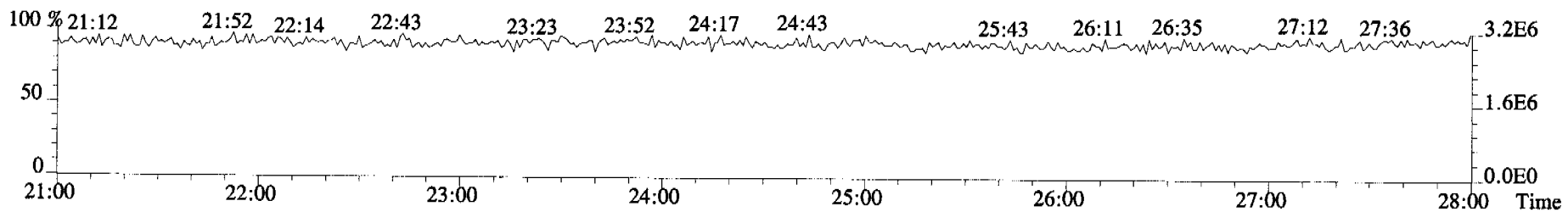
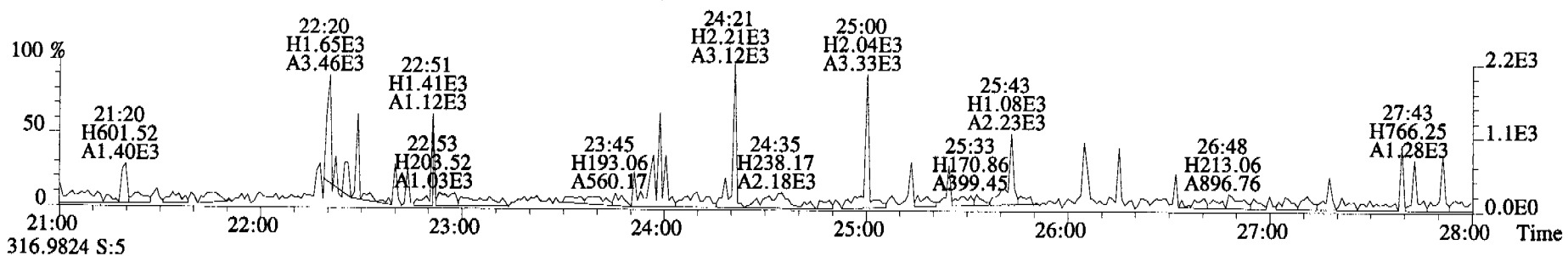
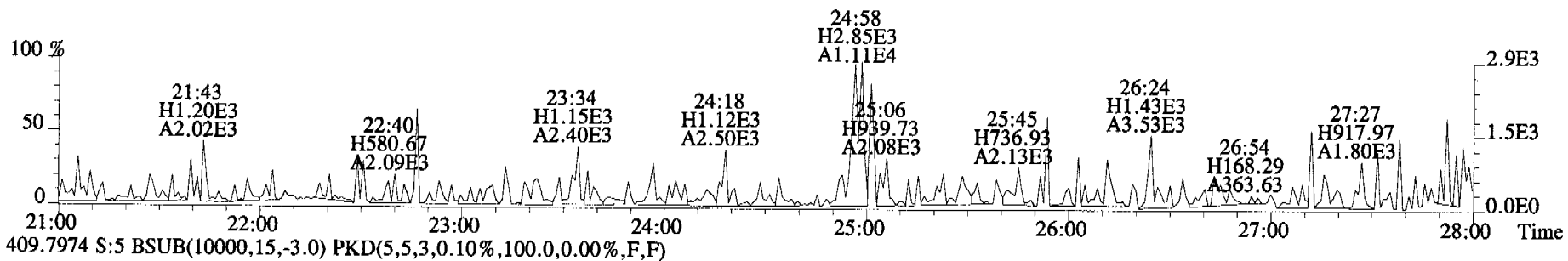
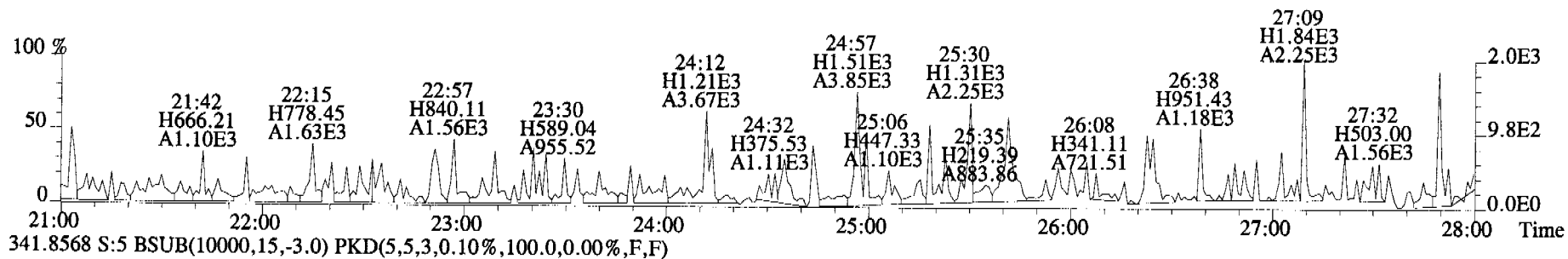
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



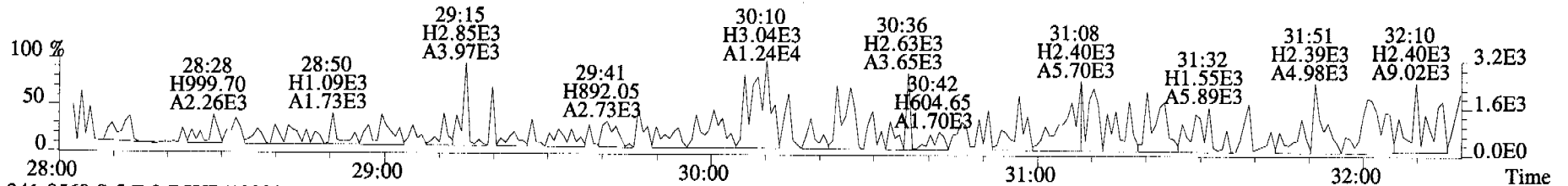
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



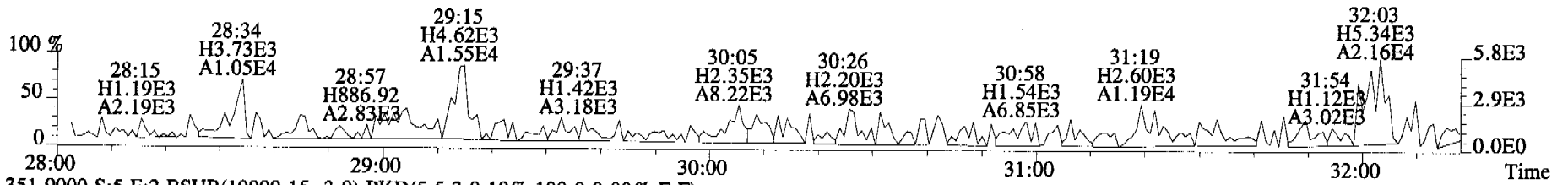
File:060920C2 #1-546 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD\_DB5  
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



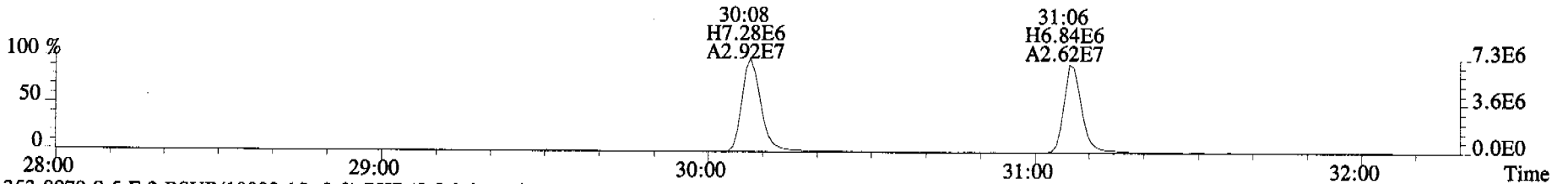
File:060920C2 #1-324 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



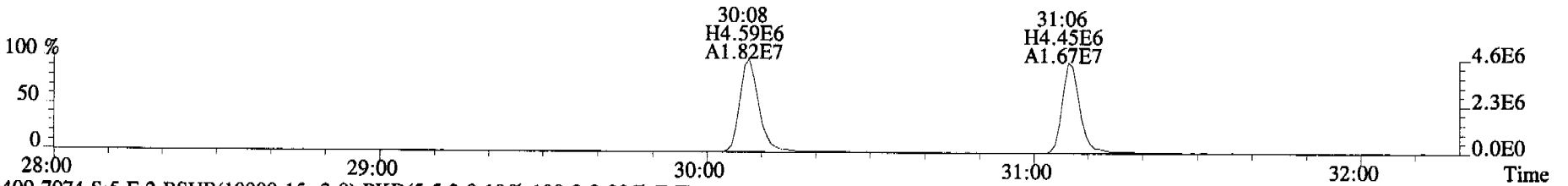
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



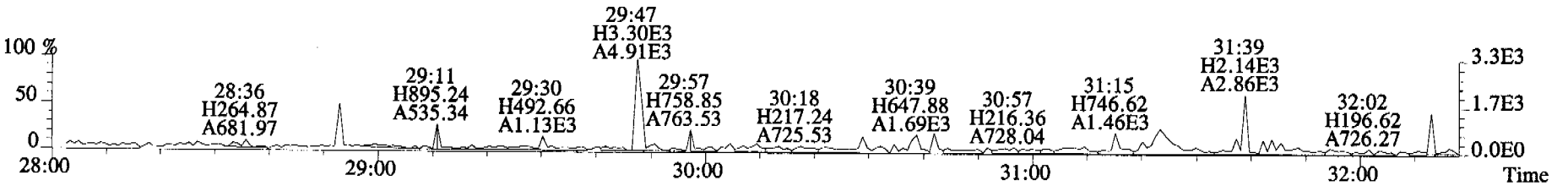
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



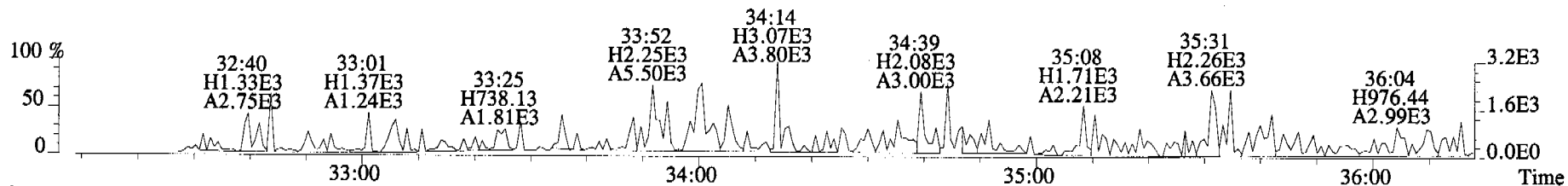
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



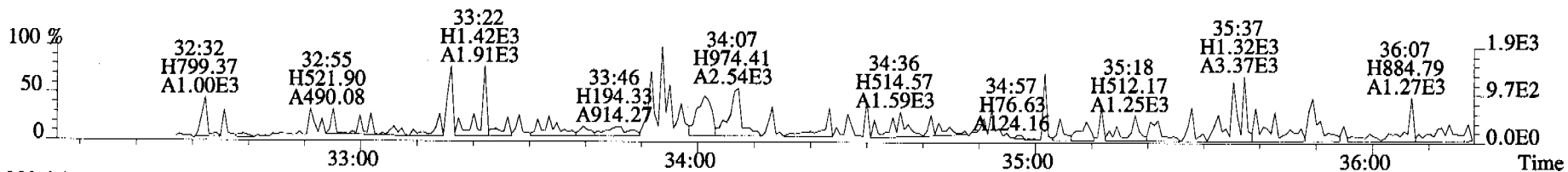
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



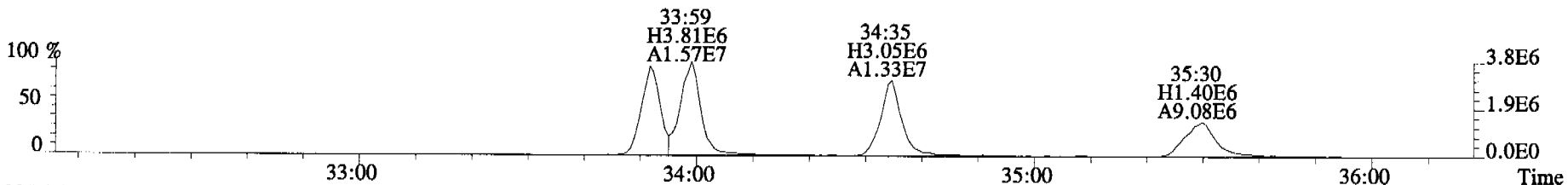
File:060920C2 #1-363 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381\_MB001 Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



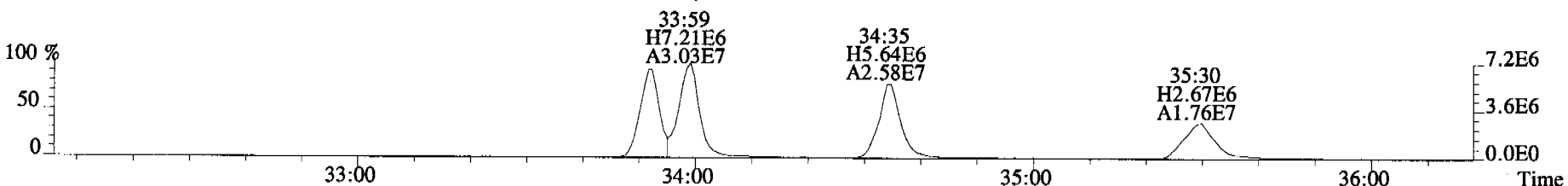
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



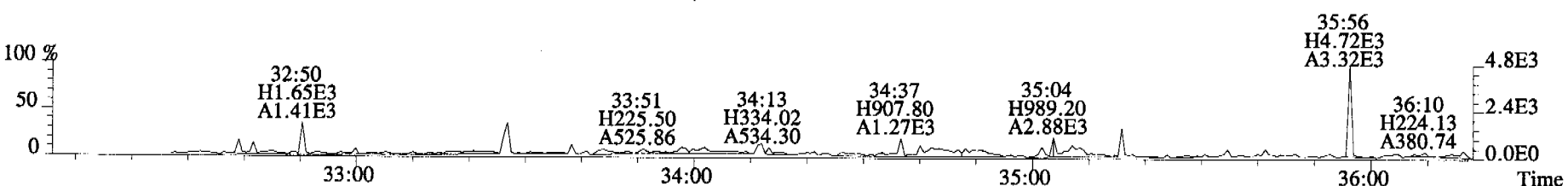
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

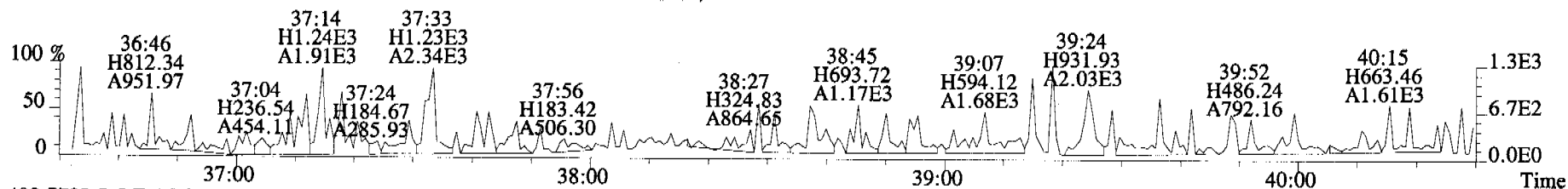


445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

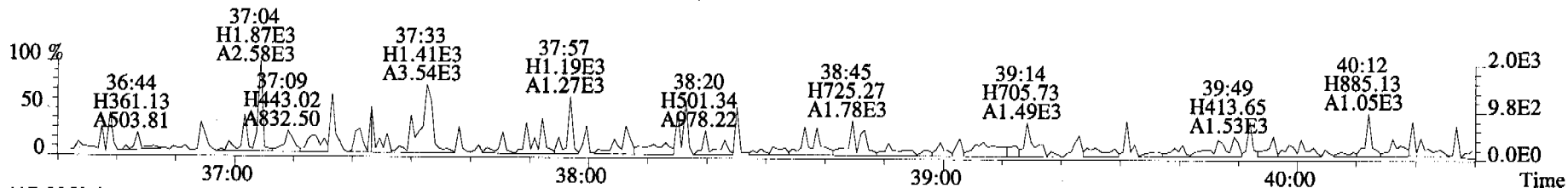




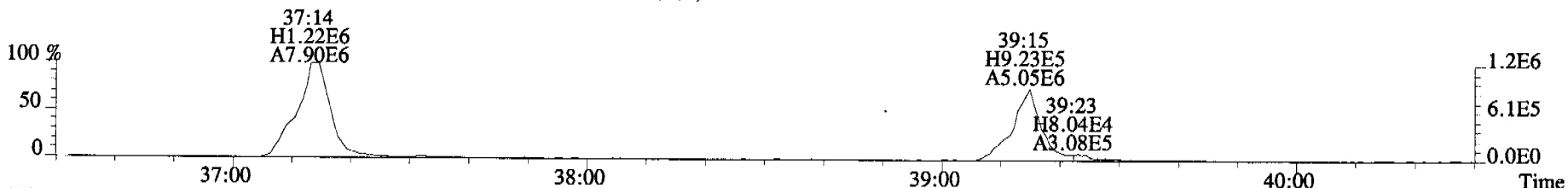
File:060920C2 #1-400 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0\_8381\_MB001 Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



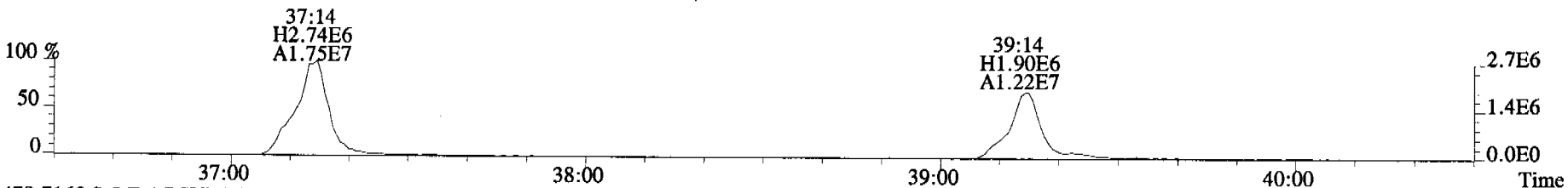
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



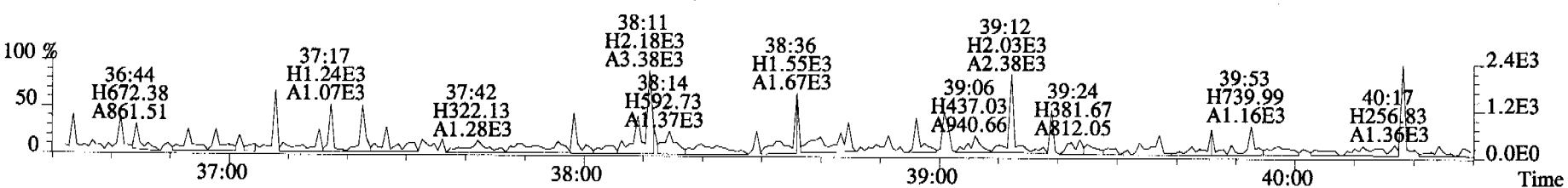
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



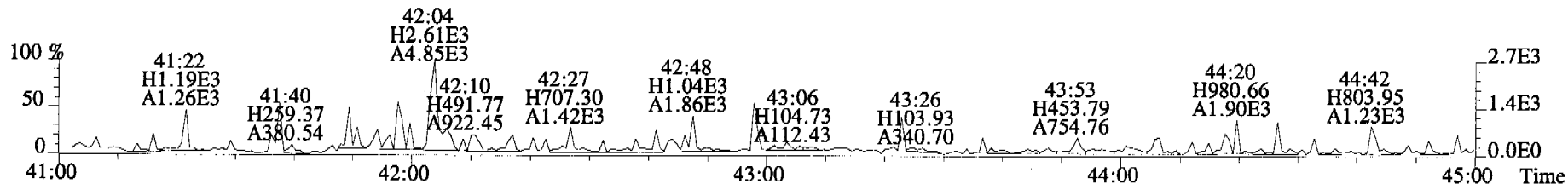
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



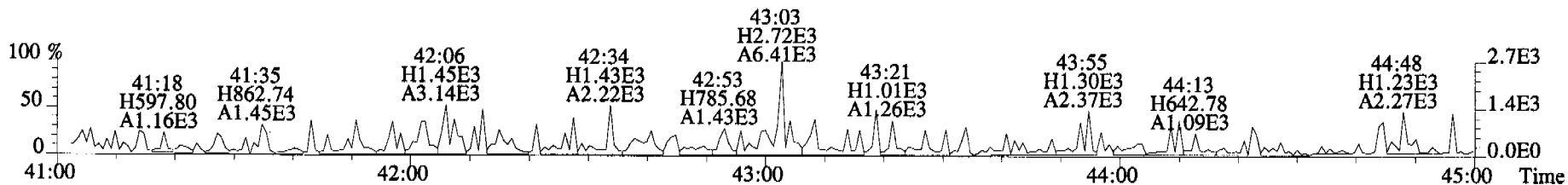
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



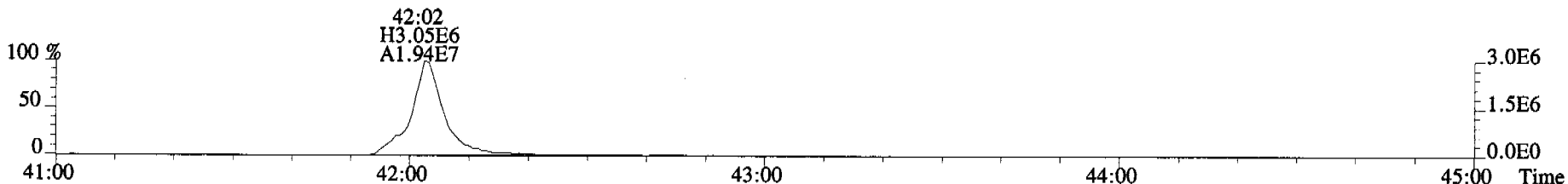
File:060920C2 #1-345 Acq:20-SEP-2006 18:33:15 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:0 8381 MB001 Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



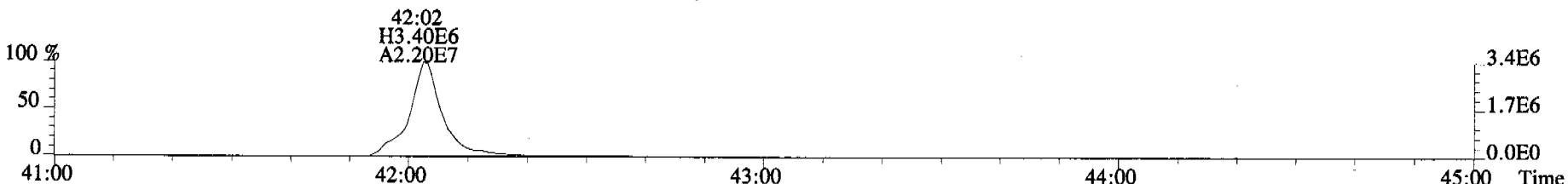
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



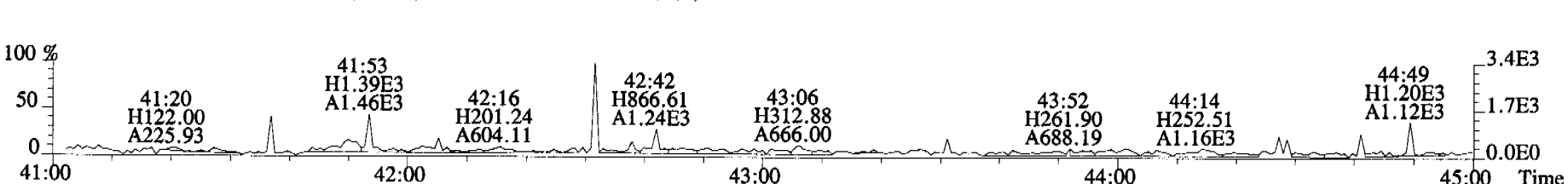
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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<br>CONC.<br>(ng/mL) | CONC.<br>FOUND<br>(ng/mL) | OPR CONC.<br>LIMITS (1)<br>(ng/mL) |
|---------------------|---------------------------|---------------------------|------------------------------------|
| 2,3,7,8-TCDD        | 10                        | 9.99                      | 6.7 - 15.8<br>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<br>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.  
10/94Analyst: msDate: 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<br>CONC.<br>(ng/mL) | CONC.<br>FOUND<br>(ng/mL) | OPR CONC.<br>LIMITS (1)<br>(ng/mL) |
|-------------------------|---------------------------|---------------------------|------------------------------------|
| 13C-2,3,7,8-TCDD        | 100                       | 72.8                      | 20.0 - 175.0<br>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<br>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  
GC Column ID: db-5

S:2 Acq:20-SEP-06 16:04:31  
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 | 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

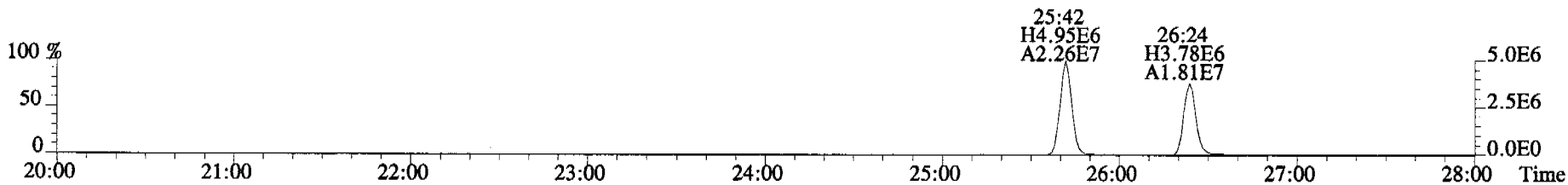
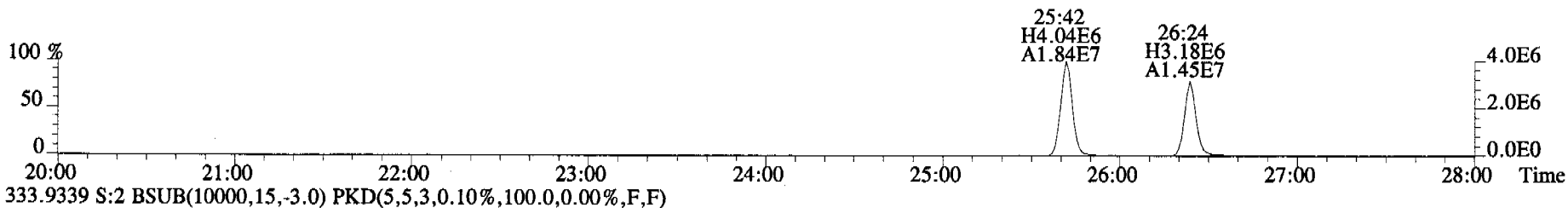
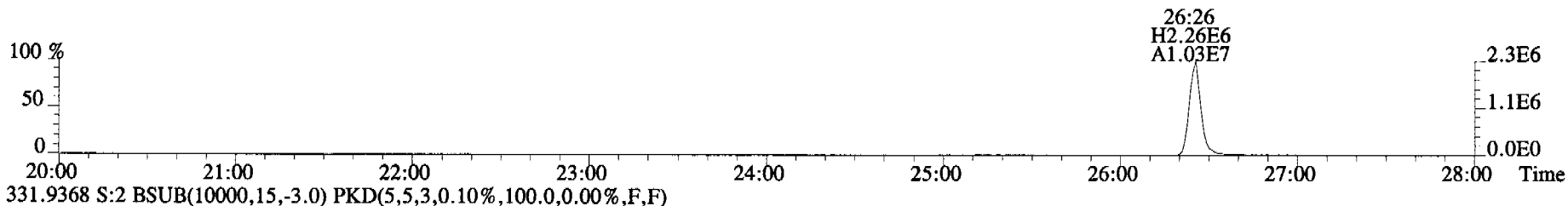
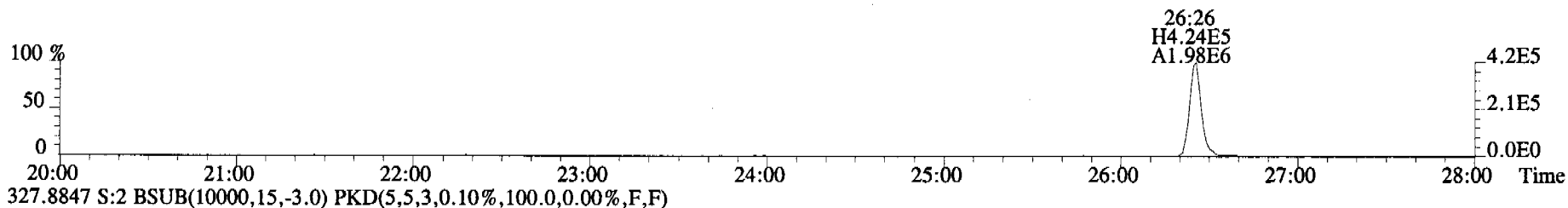
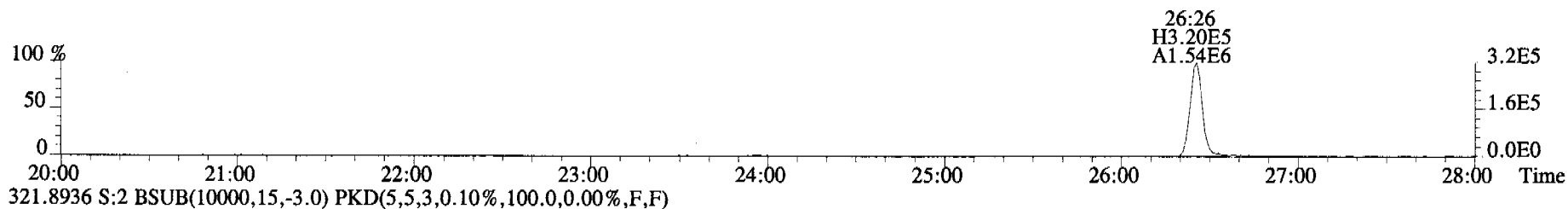
by  
Analyst: MS

by  
Analyst: MLL

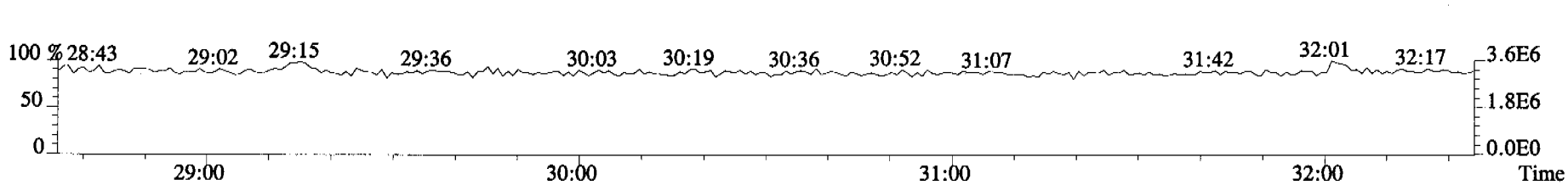
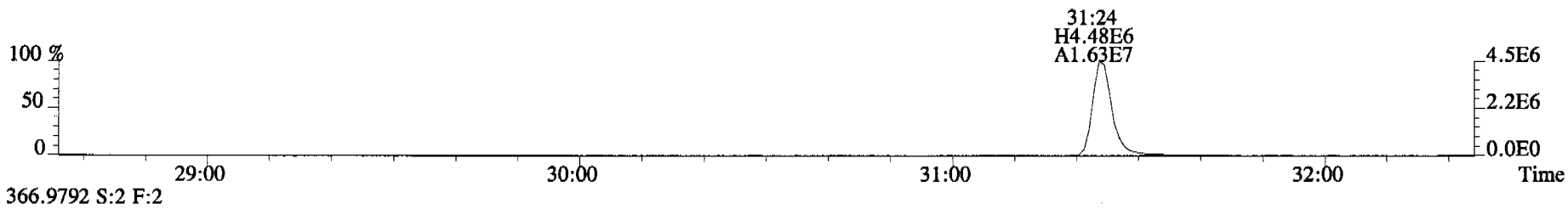
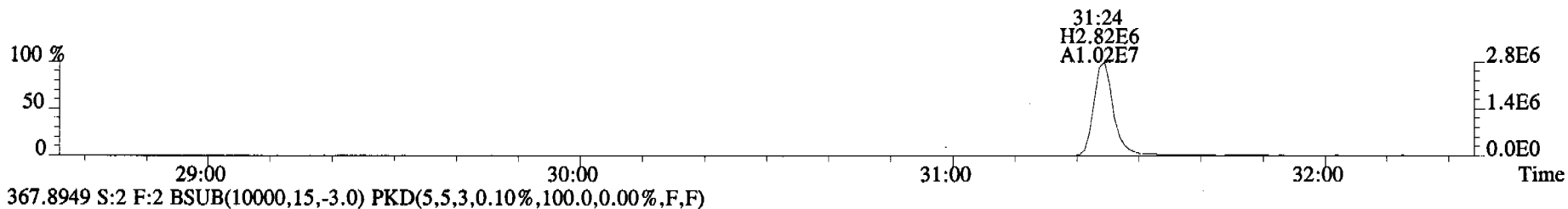
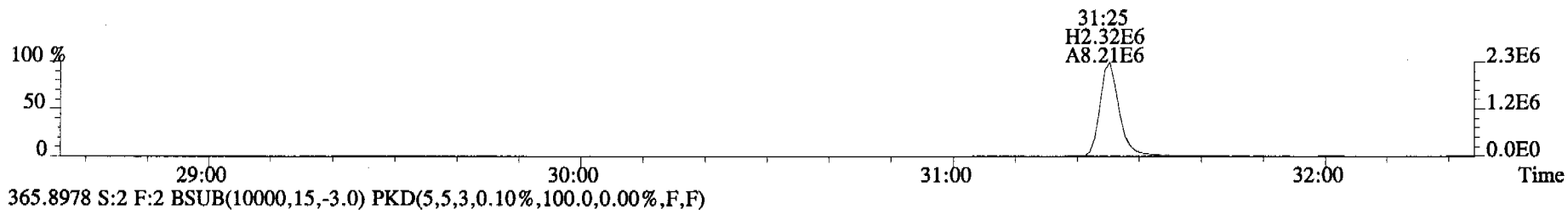
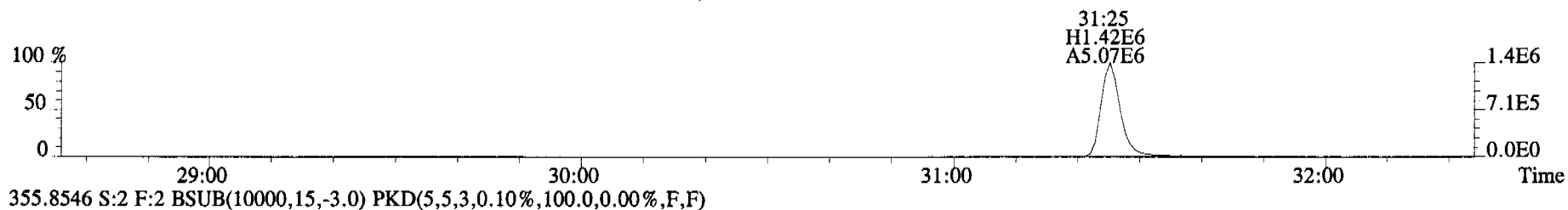
Date: 9/21/06

Date: 9/21/06

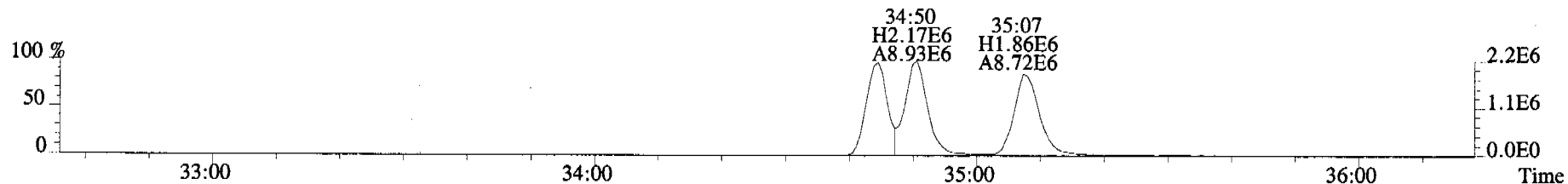
File:060920C2 #1-546 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD\_DB5  
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



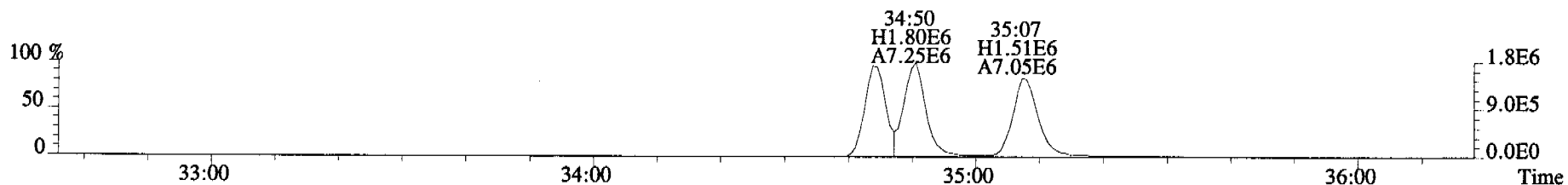
File:060920C2 #1-324 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



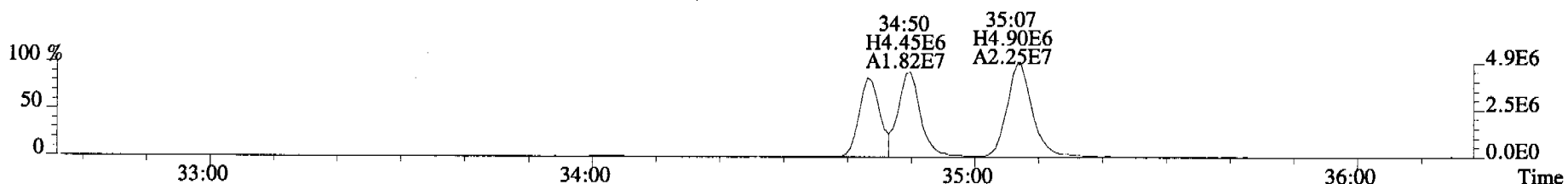
File:060920C2 #1-362 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



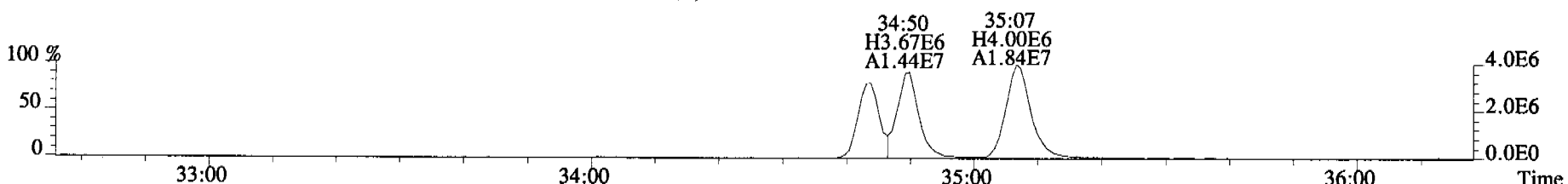
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



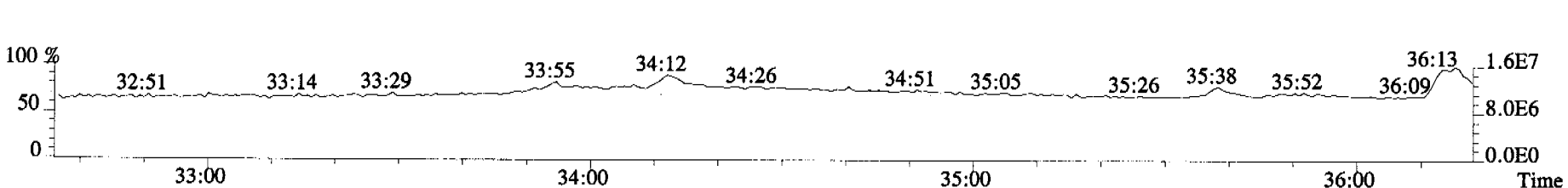
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

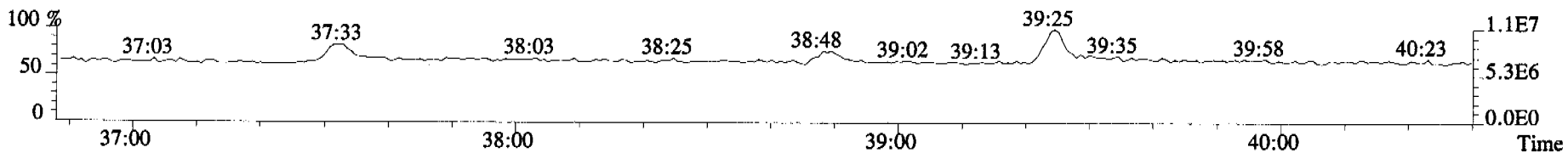
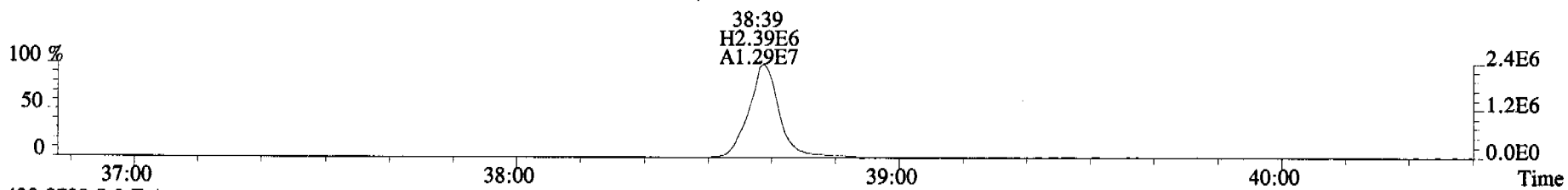
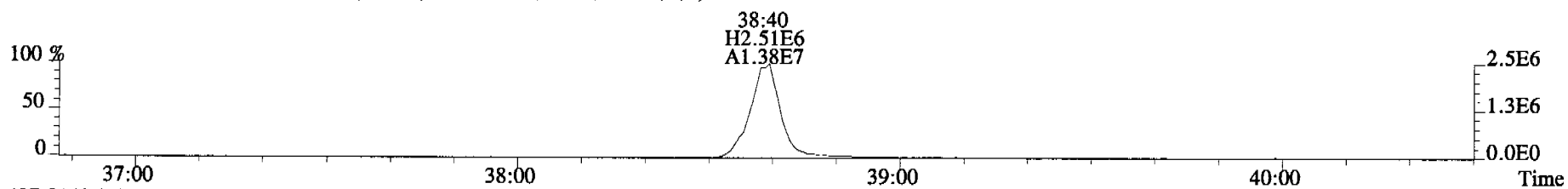
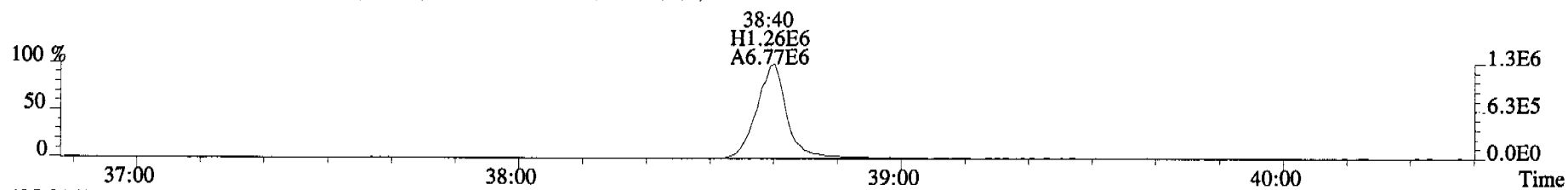
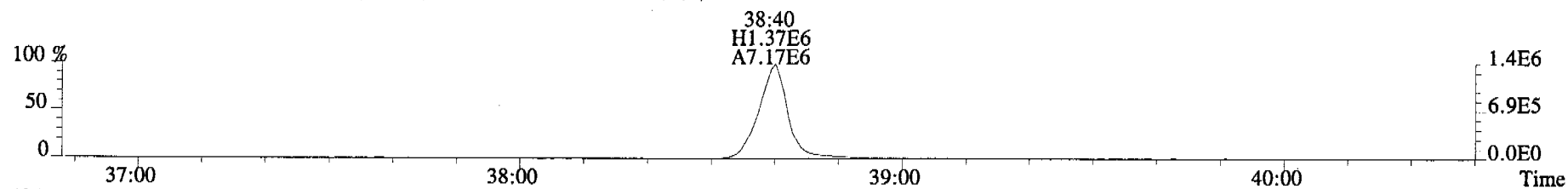


380.9760 S:2 F:3

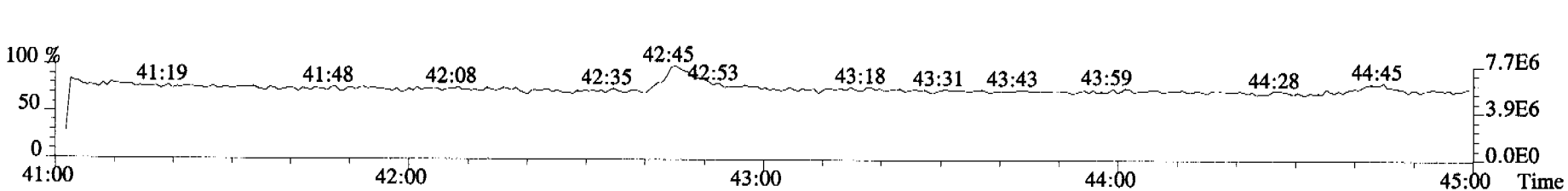
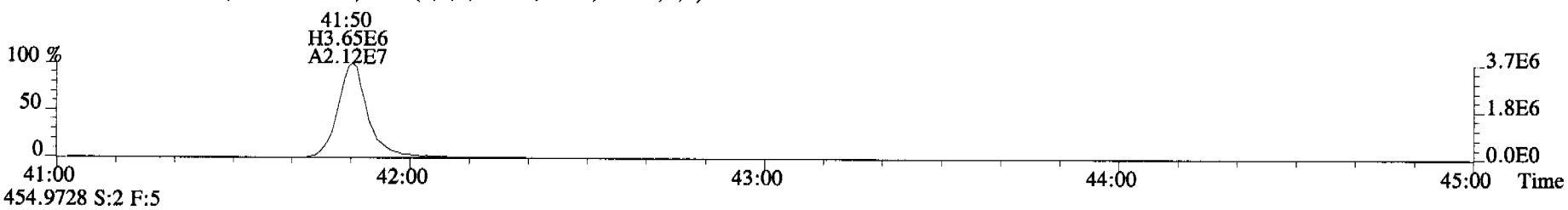
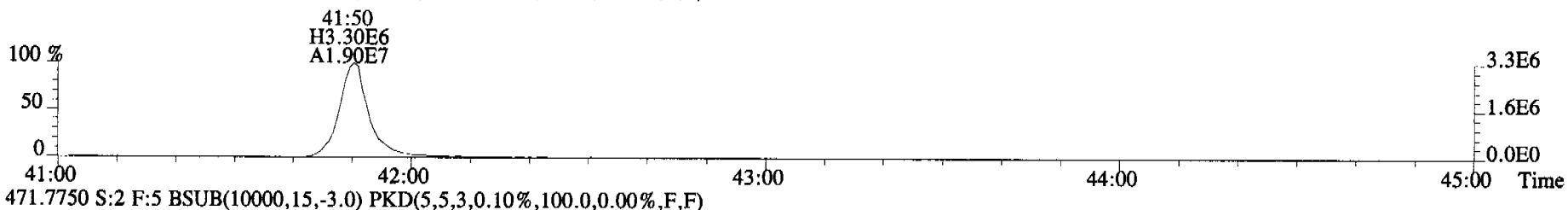
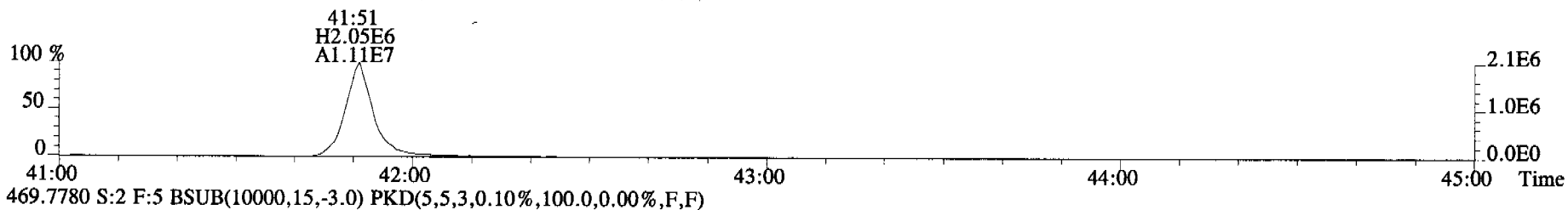
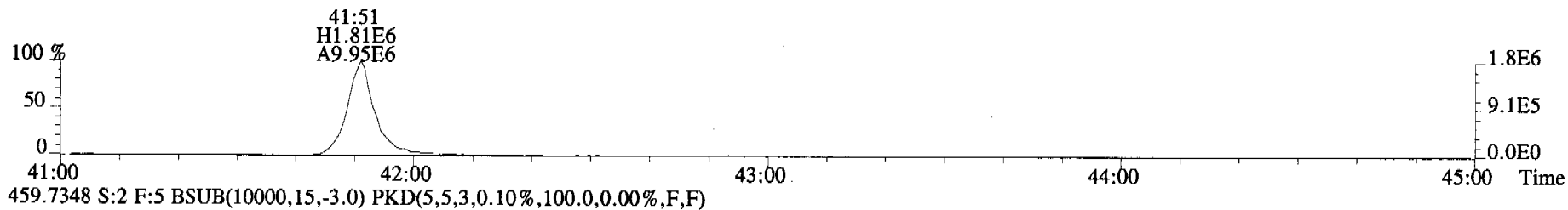




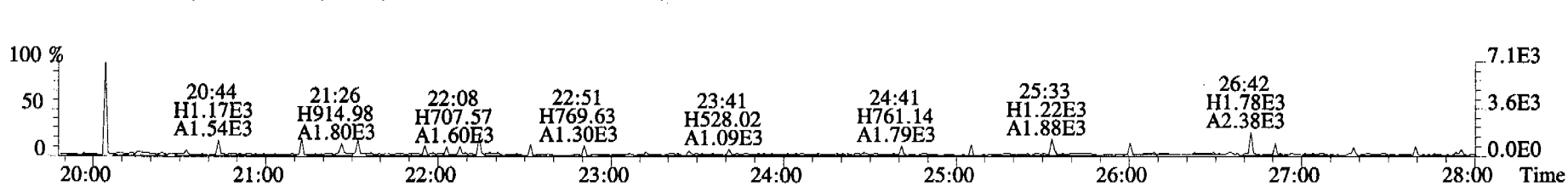
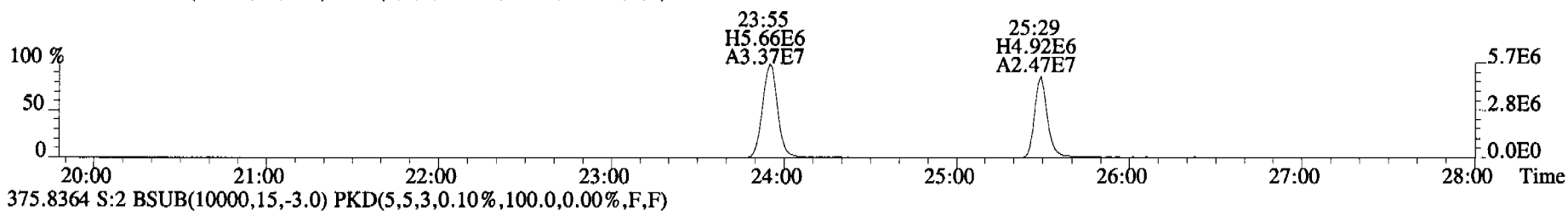
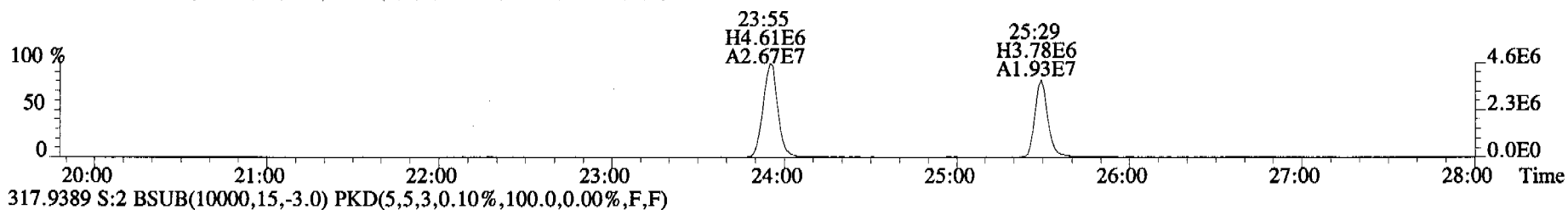
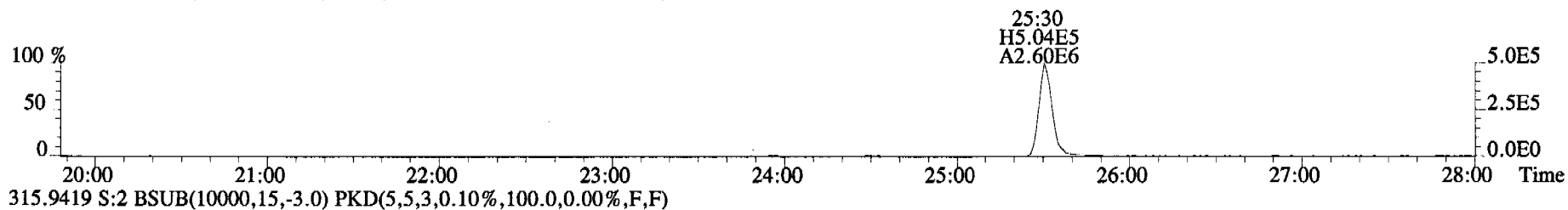
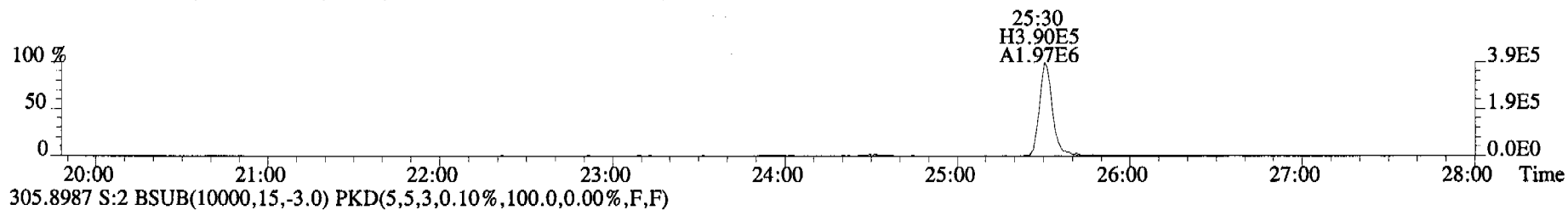
File:060920C2 #1-400 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



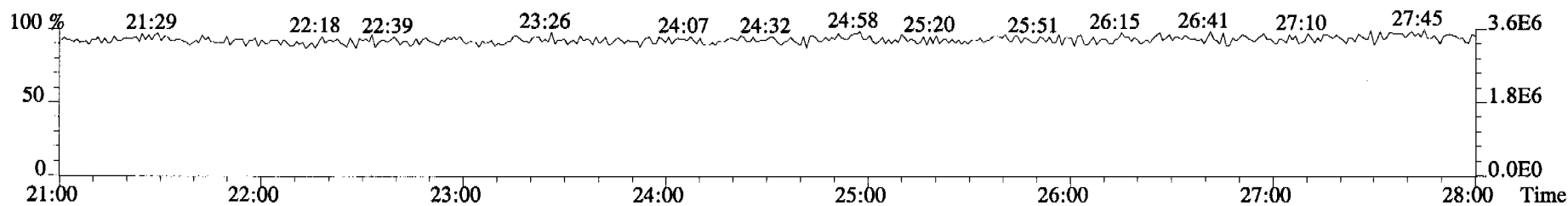
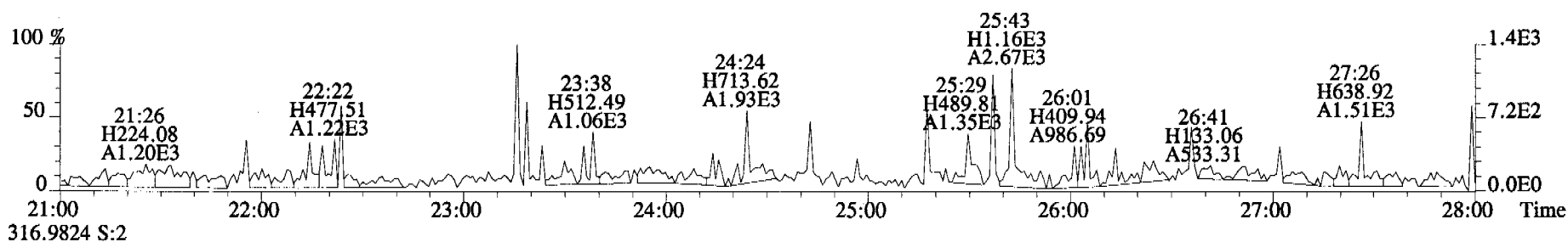
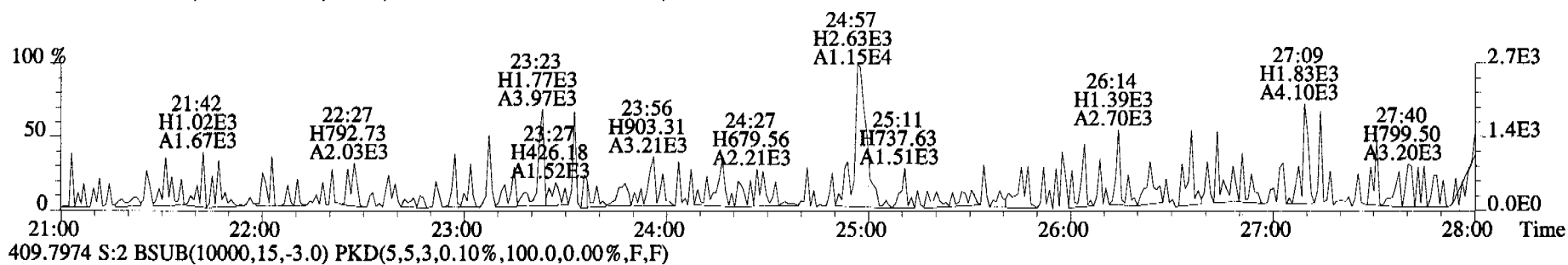
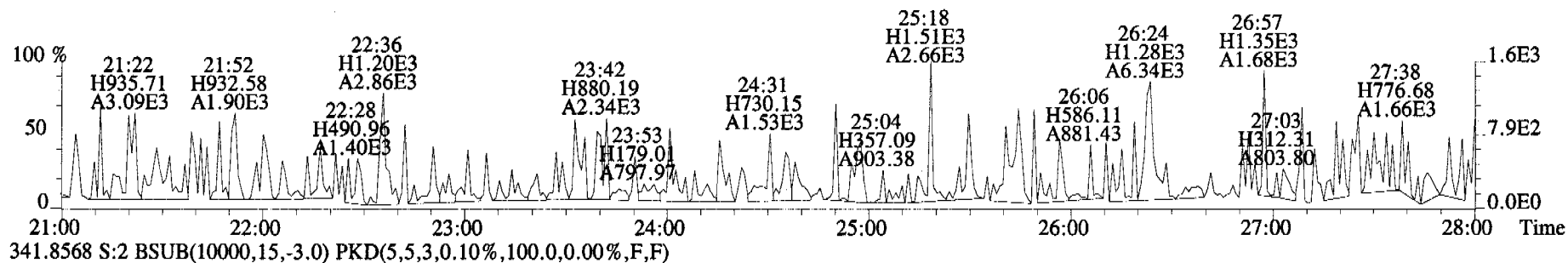
File:060920C2 #1-345 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



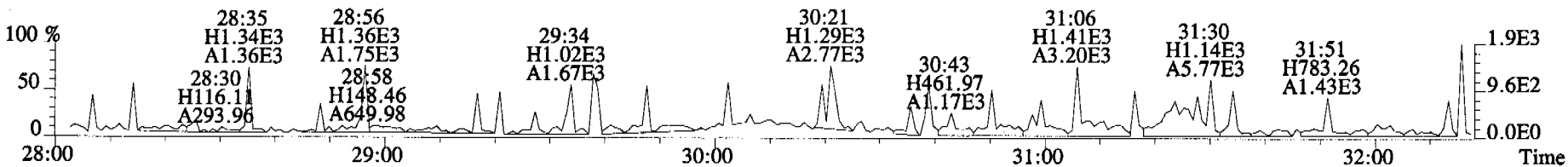
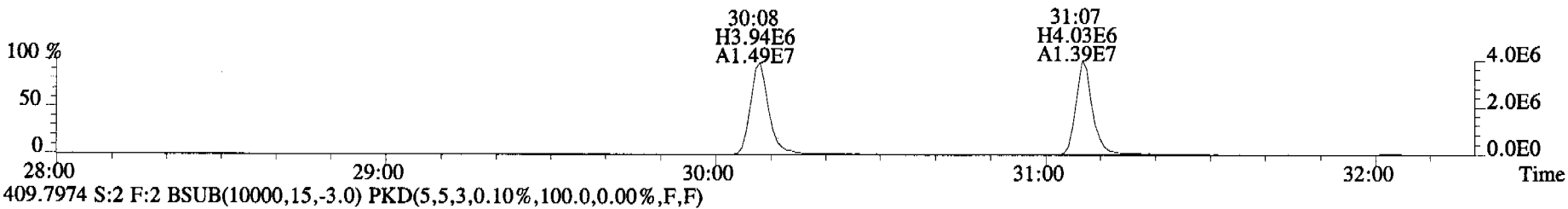
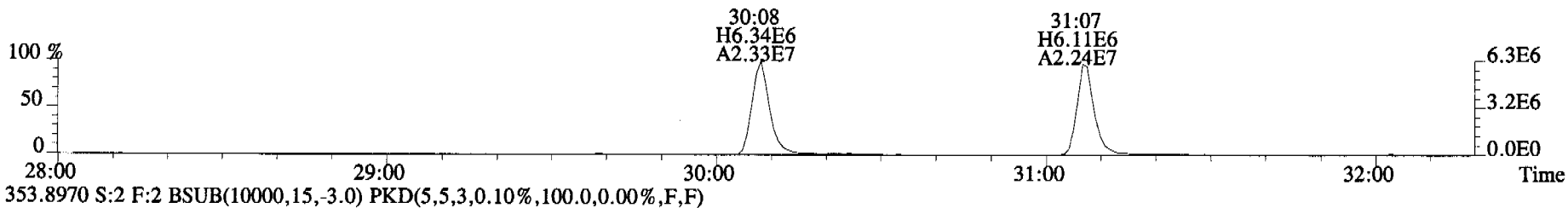
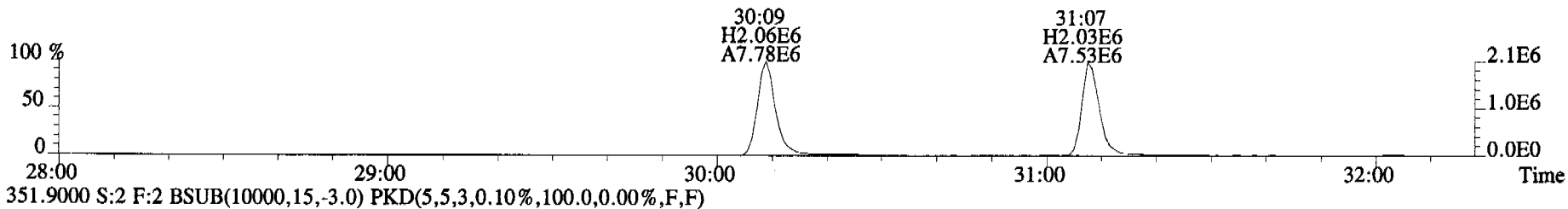
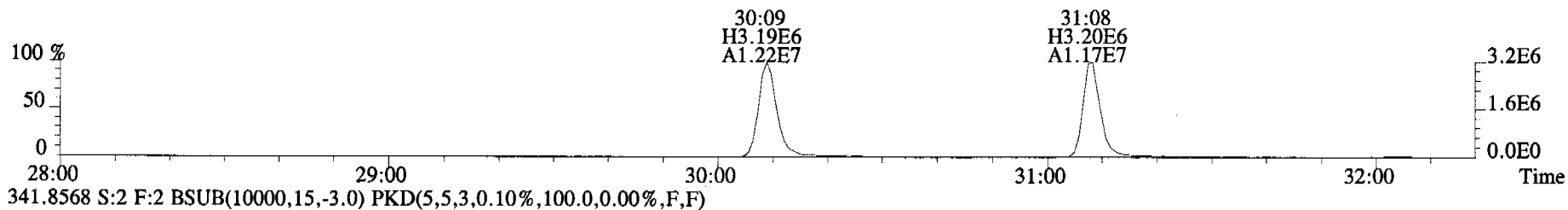
File:060920C2 #1-546 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0\_8381 OPR001 Exp:OCDD\_DB5  
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



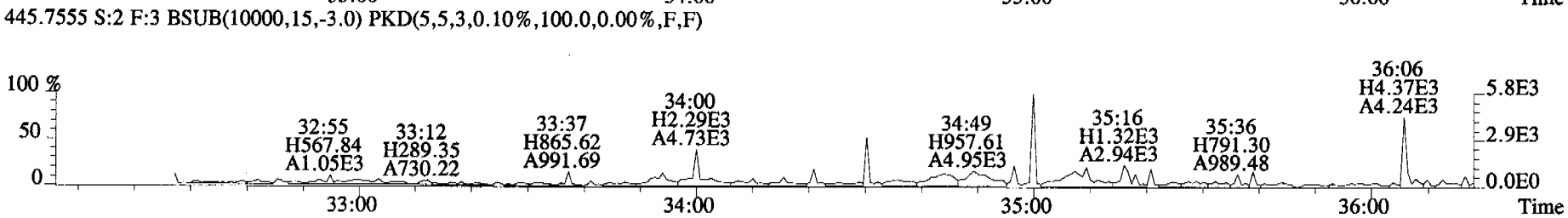
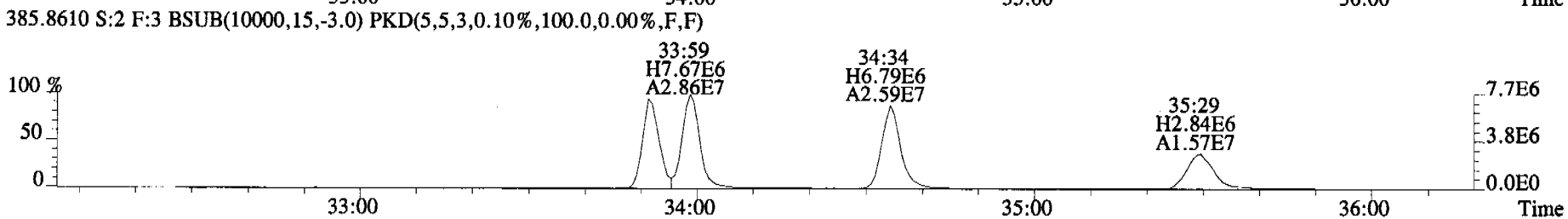
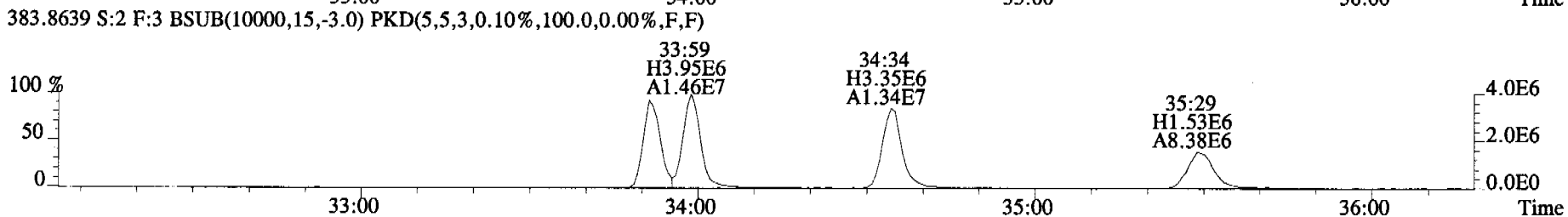
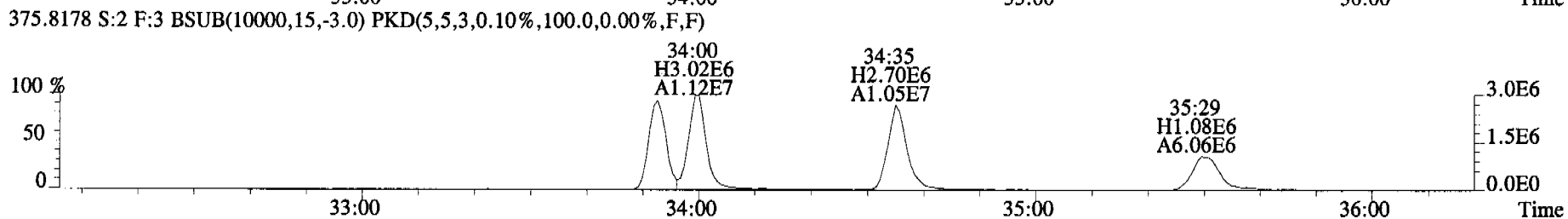
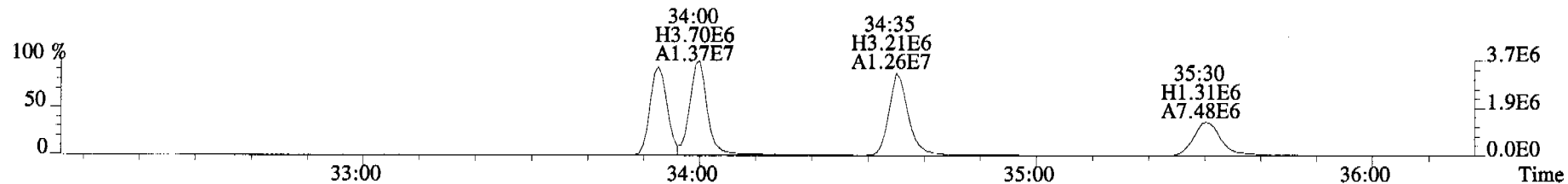
File:060920C2 #1-546 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD\_DB5  
339.8597 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



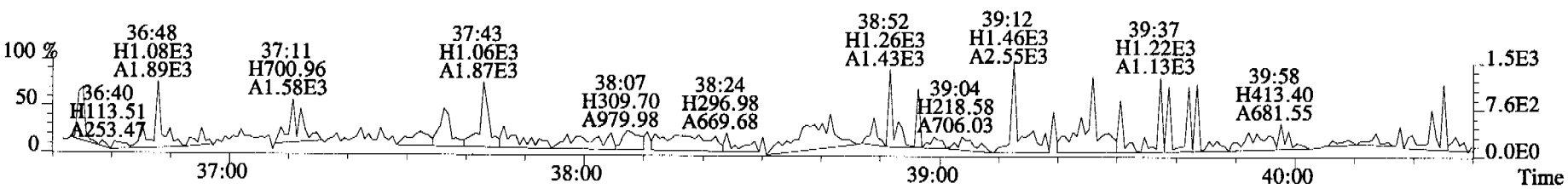
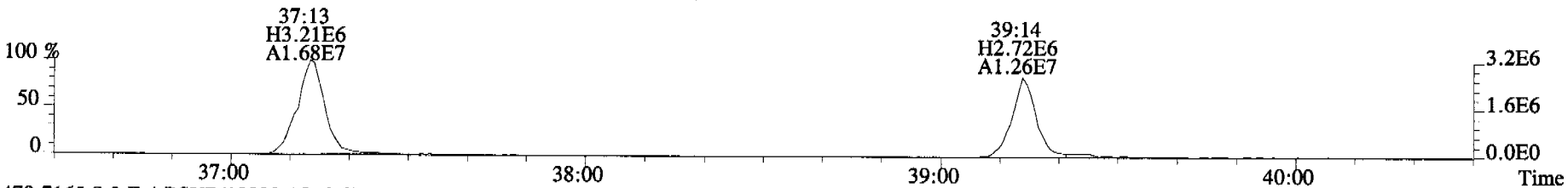
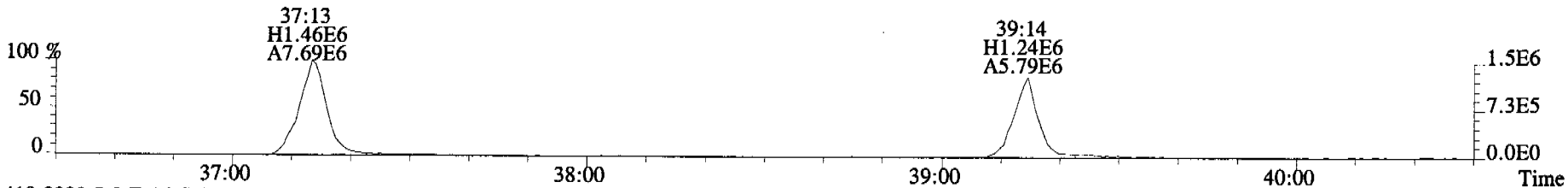
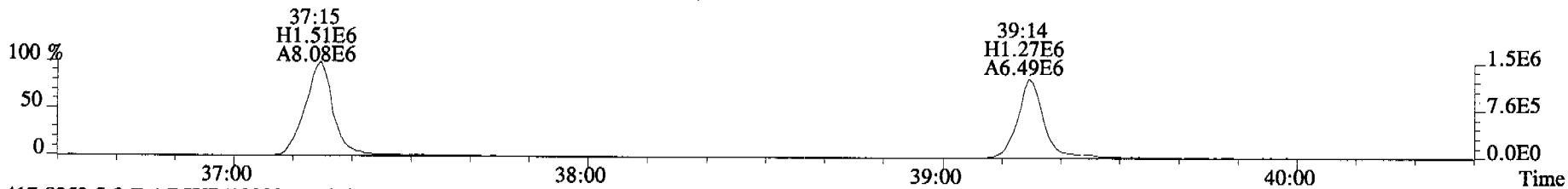
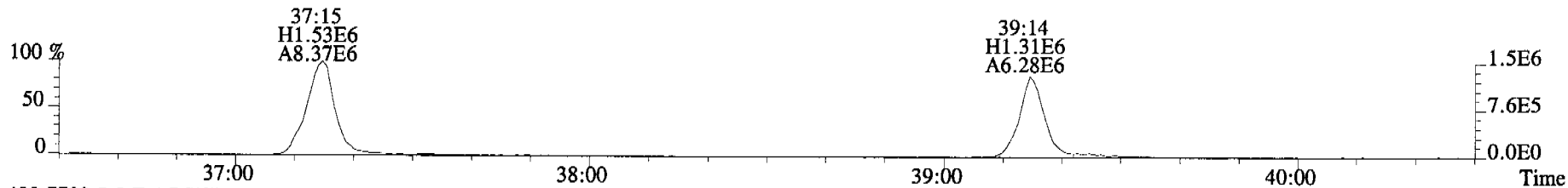
File:060920C2 #1-324 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



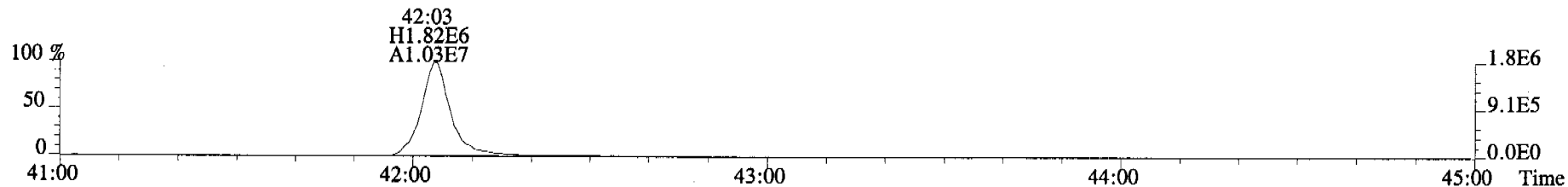
File:060920C2 #1-362 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



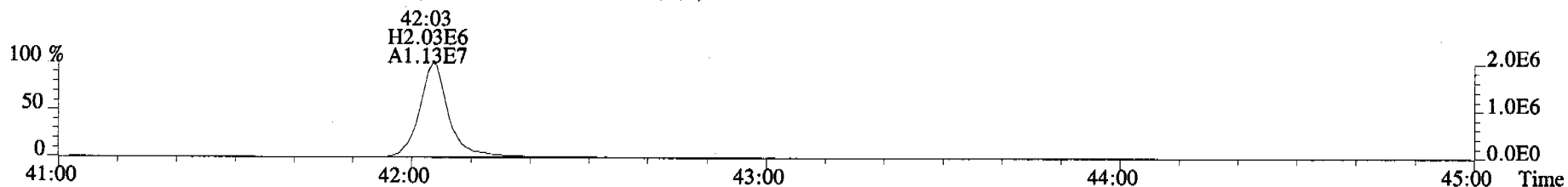
File:060920C2 #1-400 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381\_OPR001 Exp:OCDD\_DB5  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



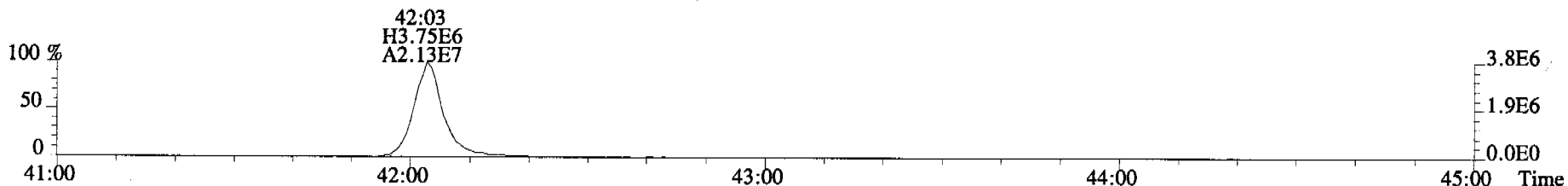
File:060920C2 #1-345 Acq:20-SEP-2006 16:04:31 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 File Text:Alta Analytical Laboratory Text:0 8381 OPR001 Exp:OCDD\_DB5  
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



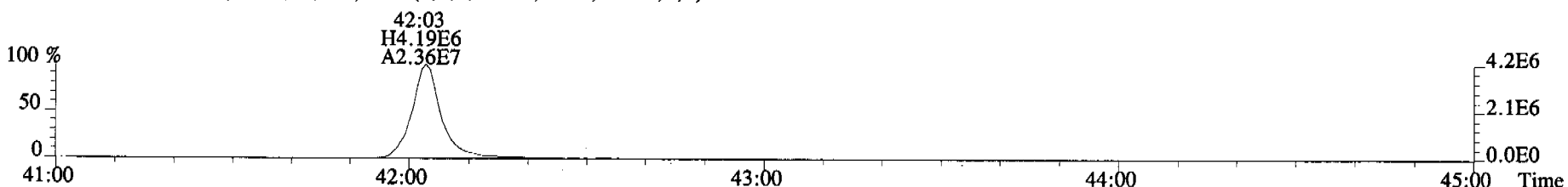
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



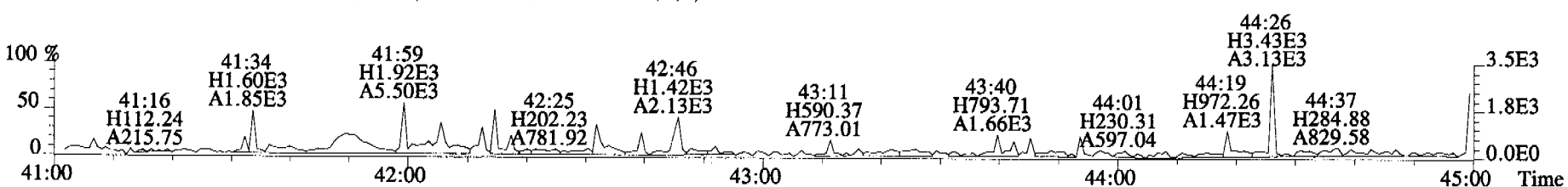
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)





| 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 $\eta$ | *      |      | 883   | 2.5 | 1.20  | Total Tetra-Dioxins | *      | *      |      | 883   | 1.20 |
| 1,2,3,7,8-PeCDD     | *        | * n    | 1.03 | NotF $\eta$ | *      |      | 1820  | 2.5 | 2.28  | Total Penta-Dioxins | *      | *      |      | 4680  | 5.88 |
| 1,2,3,4,7,8-HxCDD   | *        | * n    | 1.13 | NotF $\eta$ | *      |      | 1200  | 2.5 | 2.37  | Total Hexa-Dioxins  | *      | *      |      | 2370  | 4.62 |
| 1,2,3,6,7,8-HxCDD   | *        | * n    | 1.03 | NotF $\eta$ | *      |      | 1200  | 2.5 | 2.37  | Total Hepta-Dioxins | 14.259 | 14.259 |      | *     | *    |
| 1,2,3,7,8,9-HxCDD   | *        | * n    | 1.12 | NotF $\eta$ | *      |      | 1200  | 2.5 | 2.29  | Total Tetra-Furans  | *      | *      |      | 2250  | 2.57 |
| 1,2,3,4,6,7,8-HpCDD | 8.60e+04 | 1.18 y | 1.02 | 38:41       | 6.8261 |      | *     | 2.5 | *     | Total Penta-Furans  | 0.0000 | 0.0000 |      | 1290  | 2.03 |
| OCDD                | 5.57e+05 | 0.90 y | 1.06 | 41:53       | 57.343 |      | *     | 2.5 | *     | Total Hexa-Furans   | *      | *      |      | 1030  | 1.18 |
|                     |          |        |      |             |        |      |       |     |       | Total Hepta-Furans  | *      | *      |      | 1910  | 2.88 |
| 2,3,7,8-TCDF        | *        | * n    | 1.06 | NotF $\eta$ | *      |      | 1340  | 2.5 | 1.53  |                     |        |        |      |       |      |
| 1,2,3,7,8-PeCDF     | *        | * n    | 1.01 | NotF $\eta$ | *      |      | 1290  | 2.5 | 2.08  |                     |        |        |      |       |      |
| 2,3,4,7,8-PeCDF     | *        | * n    | 1.02 | NotF $\eta$ | *      |      | 1290  | 2.5 | 1.98  |                     |        |        |      |       |      |
| 1,2,3,4,7,8-HxCDF   | *        | * n    | 1.15 | NotF $\eta$ | *      |      | 1030  | 2.5 | 0.863 |                     |        |        |      |       |      |
| 1,2,3,6,7,8-HxCDF   | *        | * n    | 1.14 | NotF $\eta$ | *      |      | 1030  | 2.5 | 0.828 |                     |        |        |      |       |      |
| 2,3,4,6,7,8-HxCDF   | *        | * n    | 1.17 | NotF $\eta$ | *      |      | 1030  | 2.5 | 1.09  |                     |        |        |      |       |      |
| 1,2,3,7,8,9-HxCDF   | *        | * n    | 1.10 | NotF $\eta$ | *      |      | 693   | 2.5 | 1.58  |                     |        |        |      |       |      |
| 1,2,3,4,6,7,8-HpCDF | *        | * n    | 1.31 | NotF $\eta$ | *      |      | 1910  | 2.5 | 2.52  |                     |        |        |      |       |      |
| 1,2,3,4,7,8,9-HpCDF | *        | * n    | 1.33 | NotF $\eta$ | *      |      | 651   | 2.5 | 1.13  |                     |        |        |      |       |      |
| OCDF                | *        | * n    | 0.91 | NotF $\eta$ | *      |      | 1620  | 2.5 | 5.46  |                     |        |        |      |       |      |

| IS    | 13C-2,3,7,8-TCDD        | 3.13e+07 | 0.82 y | 1.09 | 26:26 | 1214.7 | 61.5 | Qual |
|-------|-------------------------|----------|--------|------|-------|--------|------|------|
| IS    | 13C-1,2,3,7,8-PeCDD     | 2.43e+07 | 0.62 y | 1.04 | 31:26 | 983.96 | 49.8 |      |
| IS    | 13C-1,2,3,4,7,8-HxCDD   | 1.92e+07 | 1.23 y | 0.83 | 34:44 | 1159.2 | 58.7 |      |
| IS    | 13C-1,2,3,6,7,8-HxCDD   | 2.47e+07 | 1.27 y | 1.04 | 34:51 | 1188.8 | 60.2 |      |
| IS    | 13C-1,2,3,4,6,7,8-HpCDD | 2.45e+07 | 1.05 y | 0.85 | 38:41 | 1439.9 | 72.9 |      |
| IS    | 13C-OCDD                | 3.64e+07 | 0.88 y | 0.71 | 41:53 | 2546.4 | 64.4 |      |
| IS    | 13C-2,3,7,8-TCDF        | 4.10e+07 | 0.80 y | 0.96 | 25:32 | 1243.0 | 62.9 |      |
| IS    | 13C-1,2,3,7,8-PeCDF     | 3.54e+07 | 1.63 y | 1.02 | 30:10 | 1011.4 | 51.2 |      |
| IS    | 13C-2,3,4,7,8-PeCDF     | 3.27e+07 | 1.56 y | 1.02 | 31:09 | 932.35 | 47.2 |      |
| IS    | 13C-1,2,3,4,7,8-HxCDF   | 2.78e+07 | 0.53 y | 1.14 | 33:53 | 1213.7 | 61.4 |      |
| IS    | 13C-1,2,3,6,7,8-HxCDF   | 3.19e+07 | 0.52 y | 1.40 | 34:01 | 1139.8 | 57.7 |      |
| IS    | 13C-2,3,4,6,7,8-HxCDF   | 2.88e+07 | 0.51 y | 1.26 | 34:36 | 1140.7 | 57.7 |      |
| IS    | 13C-1,2,3,7,8,9-HxCDF   | 2.04e+07 | 0.52 y | 1.08 | 35:33 | 939.29 | 47.5 |      |
| IS    | 13C-1,2,3,4,6,7,8-HpCDF | 2.39e+07 | 0.43 y | 0.93 | 37:16 | 1276.3 | 64.6 |      |
| IS    | 13C-1,2,3,4,7,8,9-HpCDF | 1.88e+07 | 0.45 y | 0.77 | 39:17 | 1223.4 | 61.9 |      |
| IS    | 13C-OCDF                | 3.90e+07 | 0.89 y | 0.94 | 42:05 | 2063.9 | 52.2 |      |
| C/Up  | 37C1-2,3,7,8-TCDD       | 1.05e+07 |        | 0.77 | 26:27 | 574.22 | 72.6 |      |
| RS/RT | 13C-1,2,3,4-TCDD        | 4.67e+07 | 0.81 y | 1.00 | 25:43 | 1976.3 |      |      |
| RS    | 13C-1,2,3,4-TCDF        | 6.80e+07 | 0.79 y | 1.00 | 23:57 | 1976.3 |      |      |
| RS/RT | 13C-1,2,3,7,8,9-HxCDD   | 3.96e+07 | 1.27 y | 1.00 | 35:09 | 1976.3 |      |      |

Integrations  
 by  
 Analyst: ms

Reviewed  
 by  
 Analyst: [Signature]

Date: 9/21/06

Date: 9/21/06

Totals class: HpCDD EMPC

Entry #: 25

Run: 16 File: 060920C2 S: 11 I: 1 F: 4

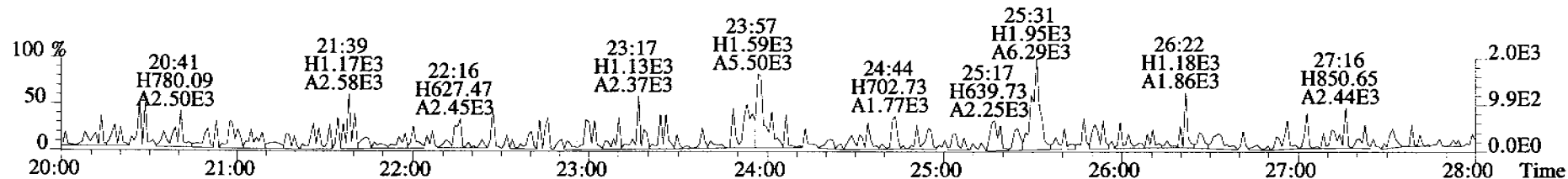
Acquired: 20-SEP-06 23:30:43 Processed: 21-SEP-06 07:06:56

Total Concentration: 14.259

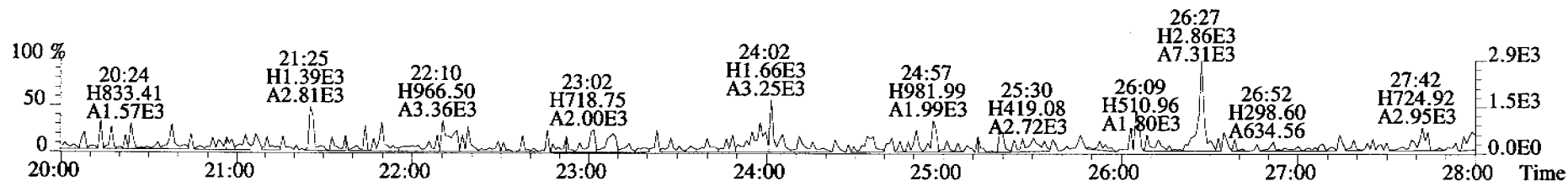
Unnamed Concentration: 7.433

| RT    | m1 Resp   | m2 Resp   | RA     | Resp      | Concentration | Name                |
|-------|-----------|-----------|--------|-----------|---------------|---------------------|
| 37:40 | 4.852e+04 | 4.516e+04 | 1.07 y | 9.368e+04 | 7.4331        |                     |
| 38:41 | 4.651e+04 | 3.952e+04 | 1.18 y | 8.603e+04 | 6.8261        | 1,2,3,4,6,7,8-HpCDD |

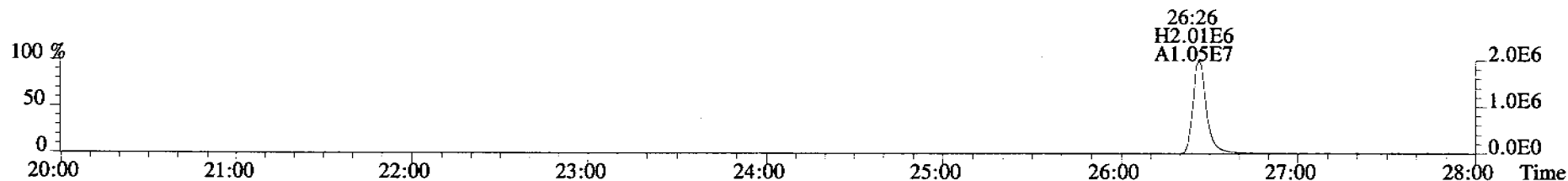
File:060920C2 #1-546 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



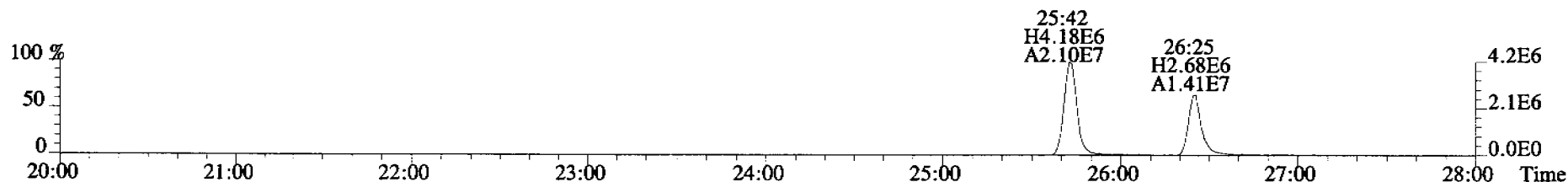
321.8936 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



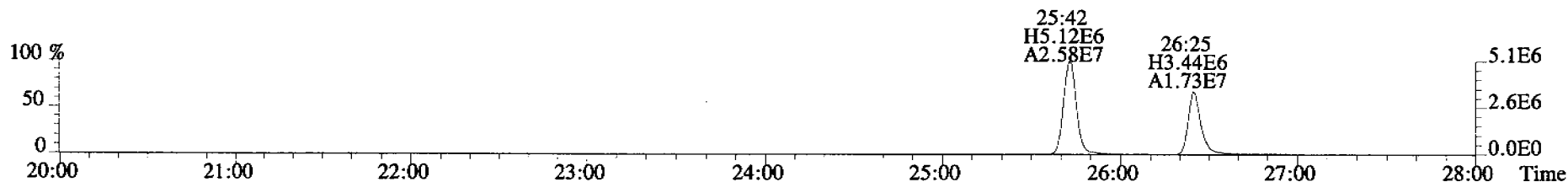
327.8847 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



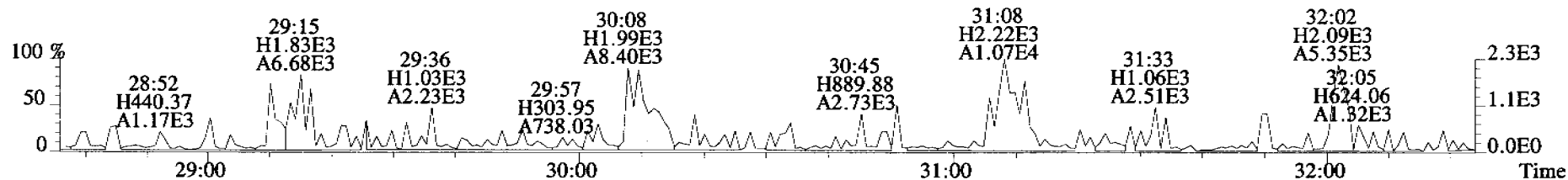
331.9368 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



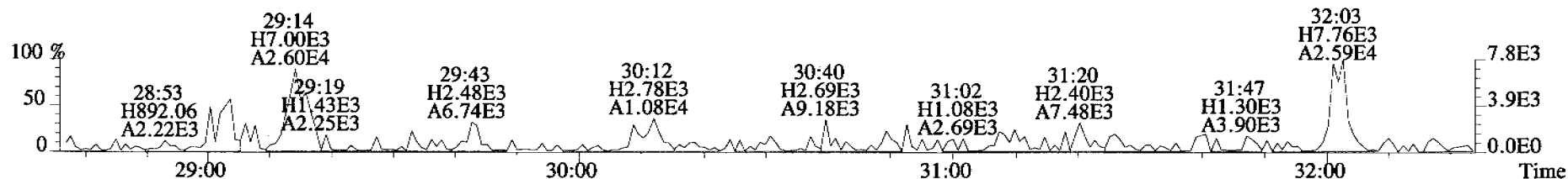
333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



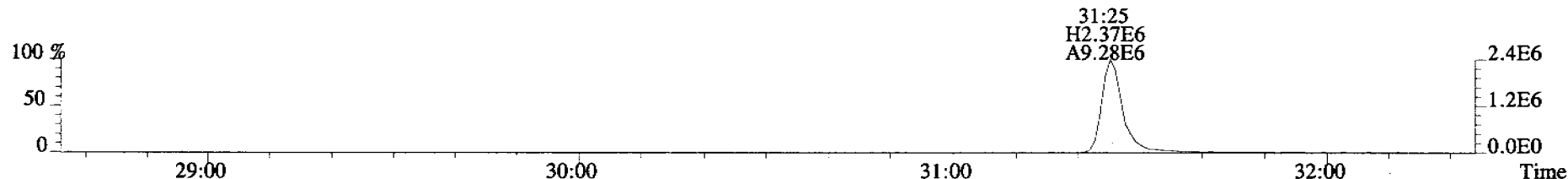
File:060920C2 #1-324 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112 8381 001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
353.8576 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



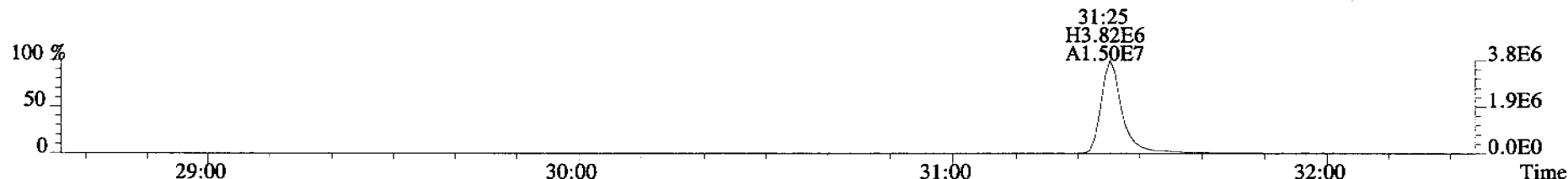
355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



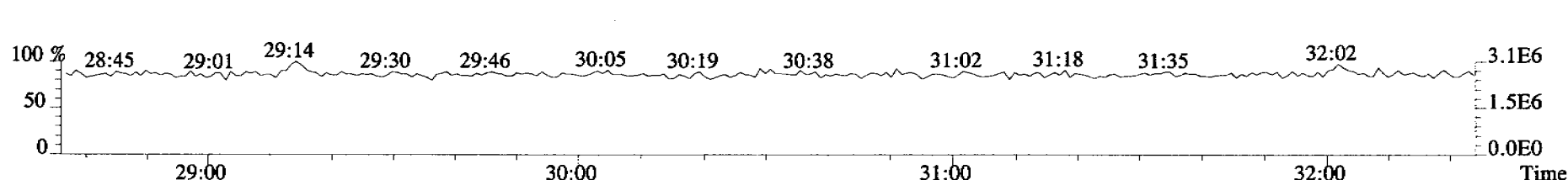
365.8978 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



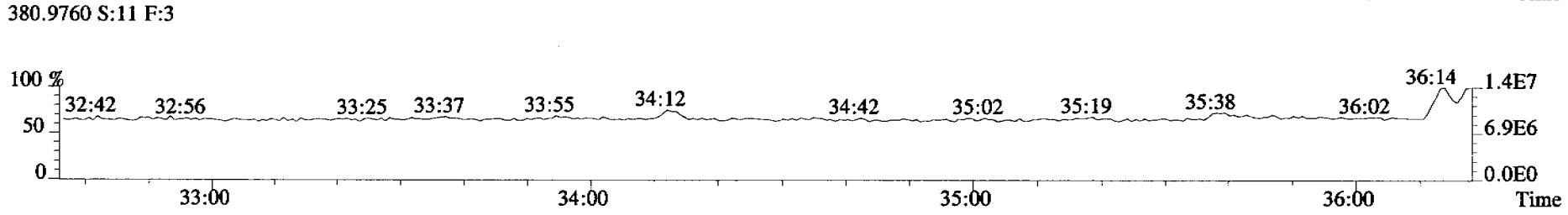
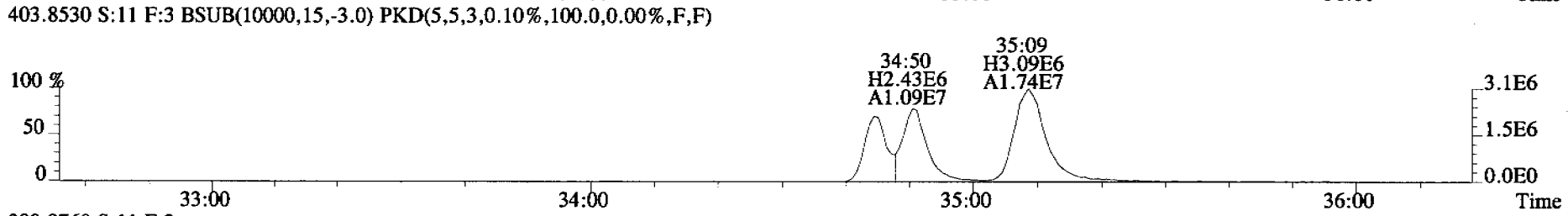
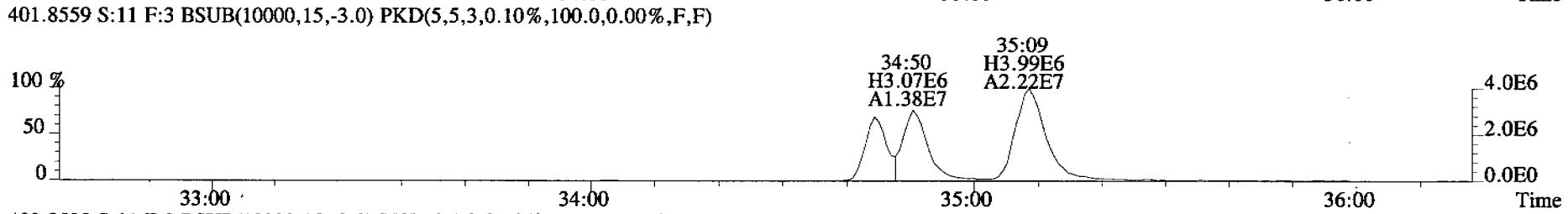
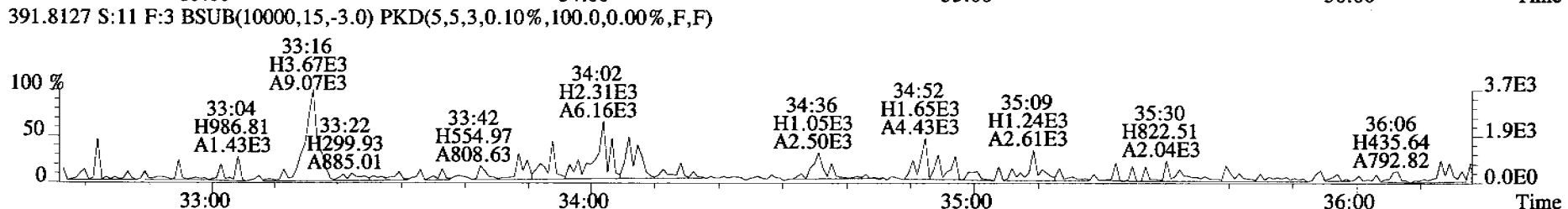
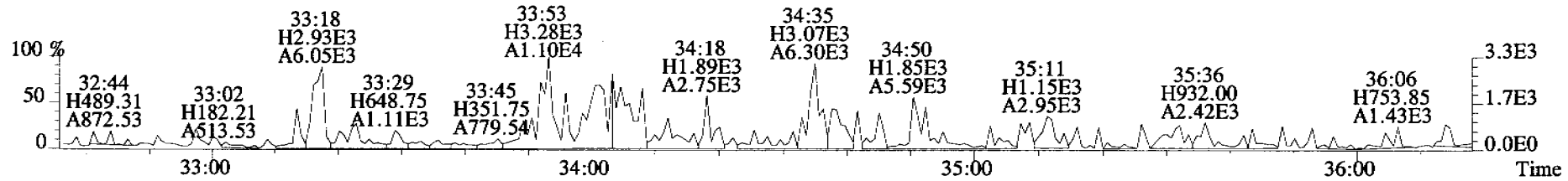
367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



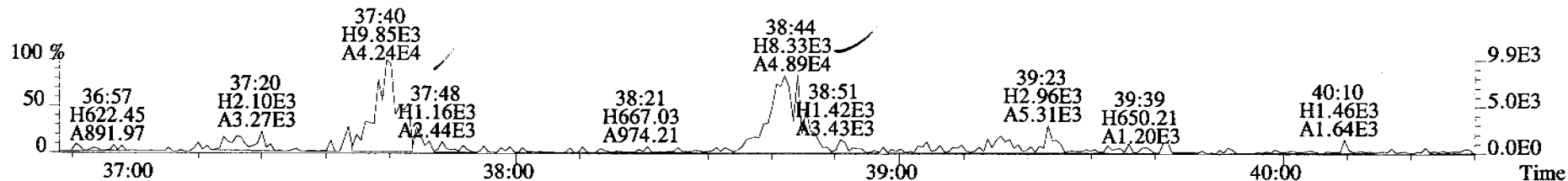
366.9792 S:11 F:2



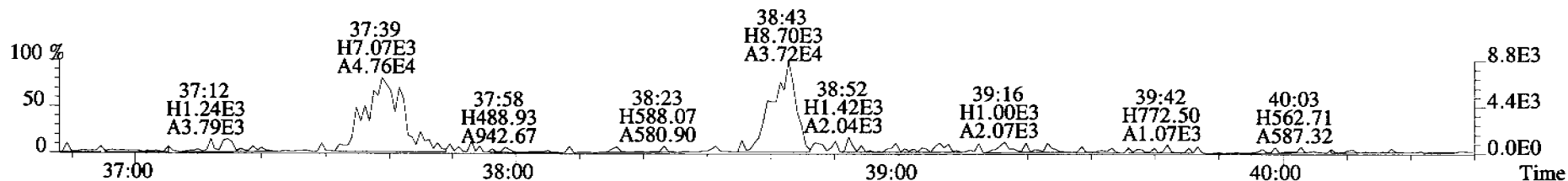
File:060920C2 #1-363 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
 389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



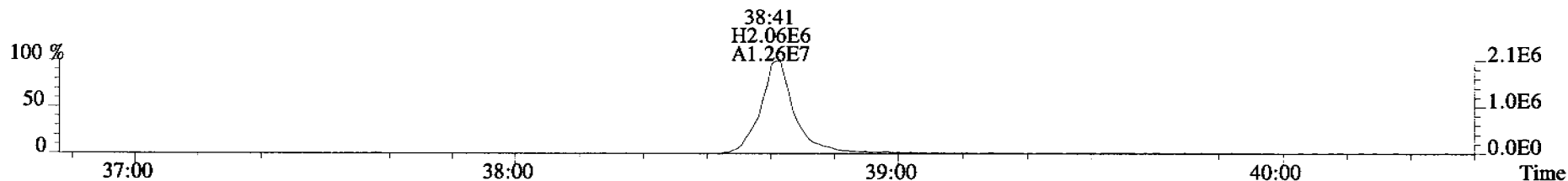
File:060920C2 #1-399 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



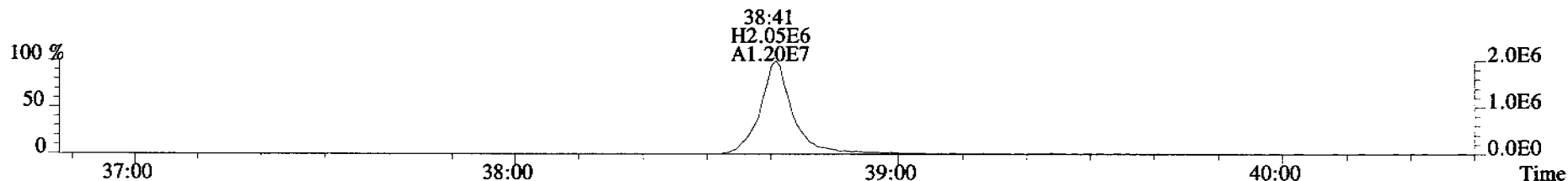
425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



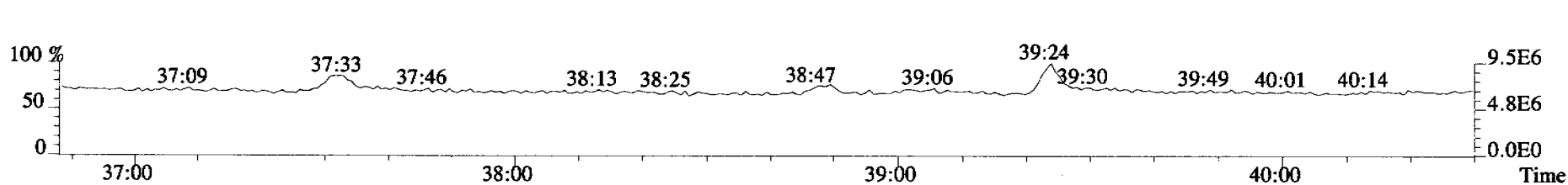
435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



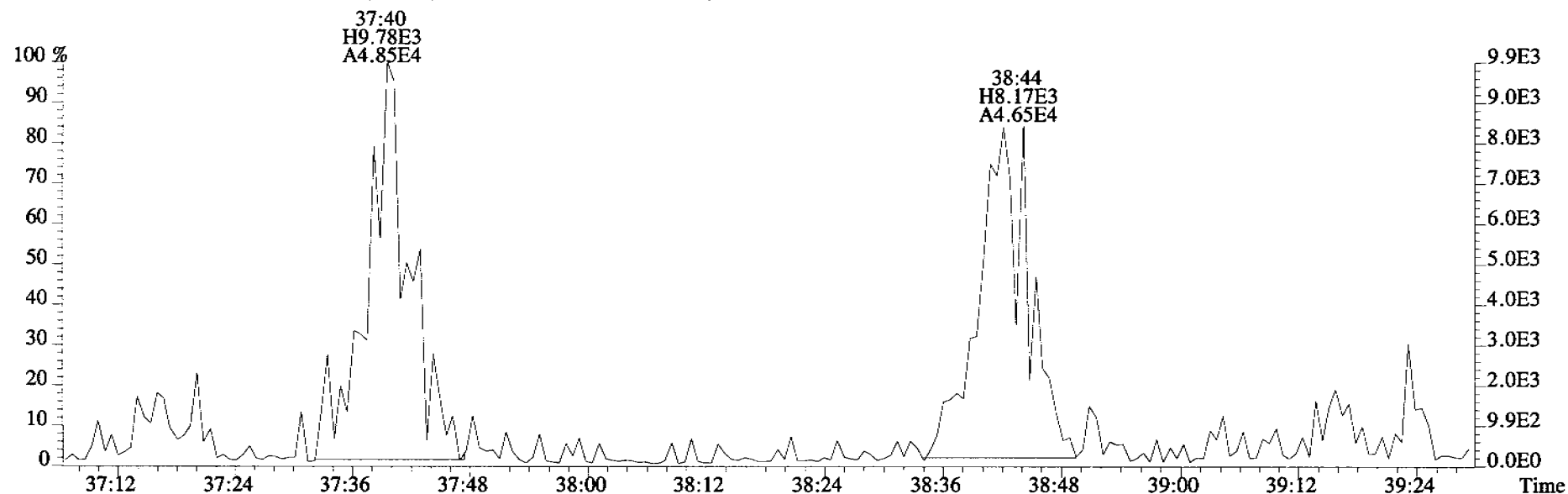
437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



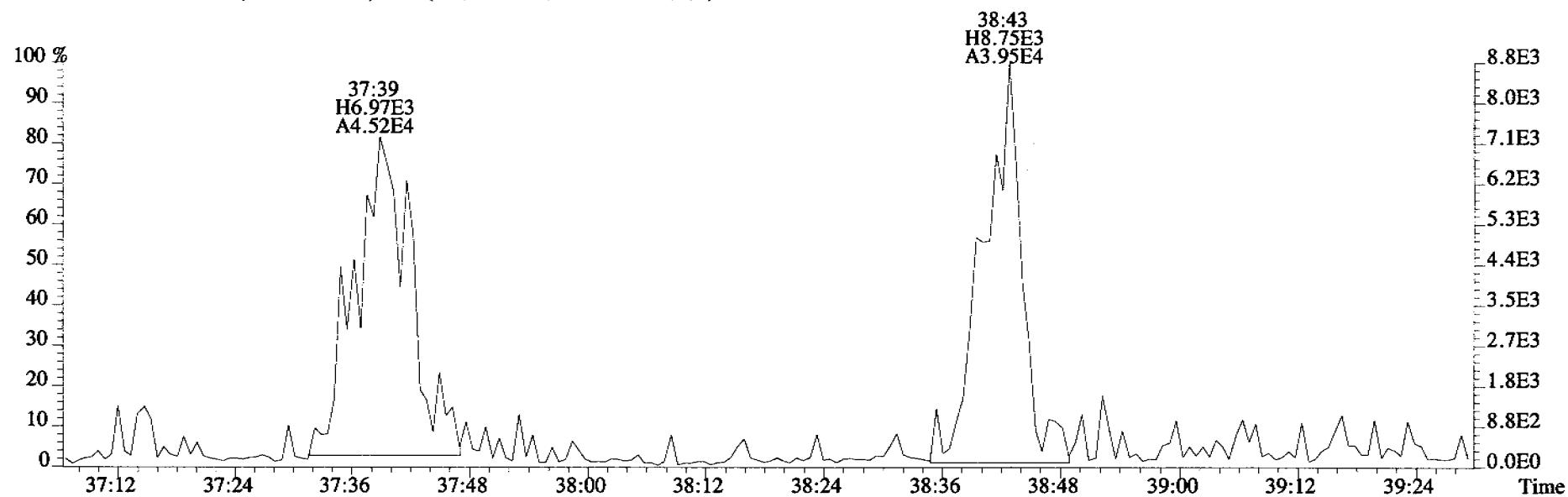
430.9728 S:11 F:4



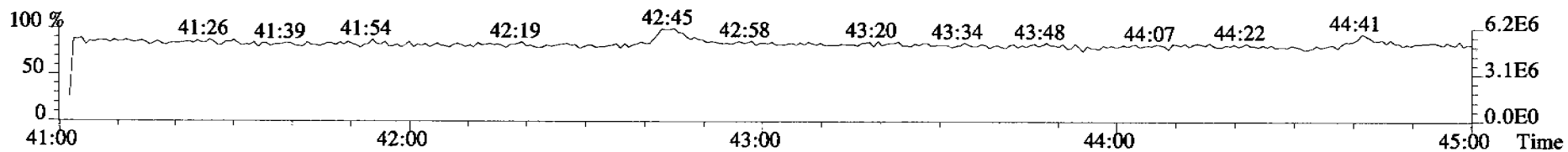
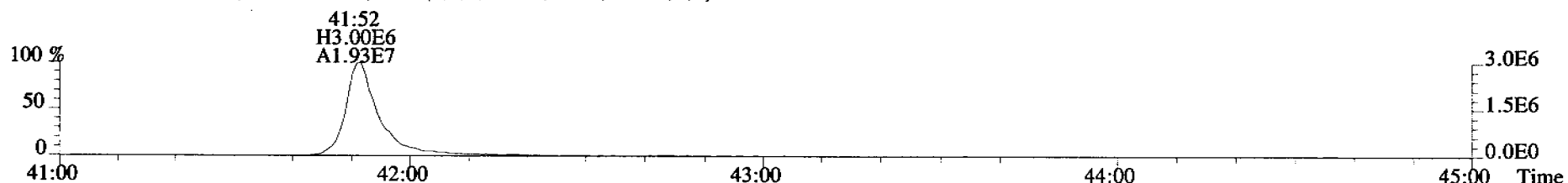
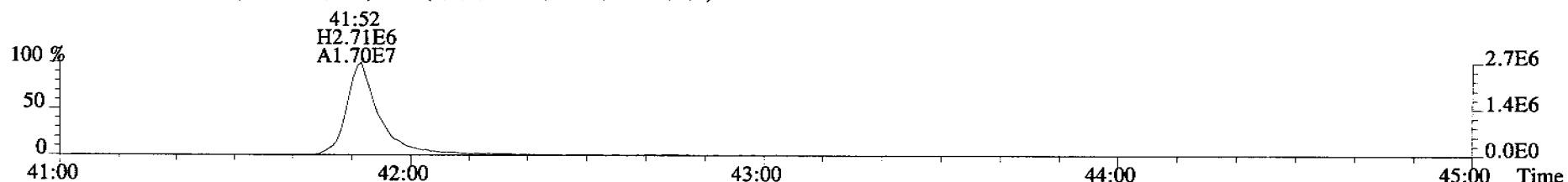
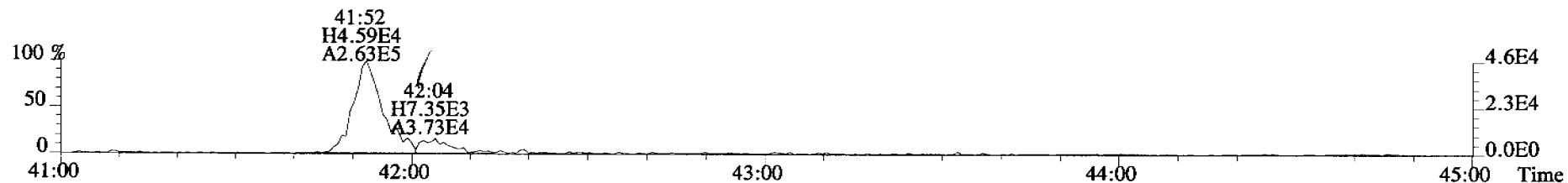
File:060920C2 #1-399 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112 8381 001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

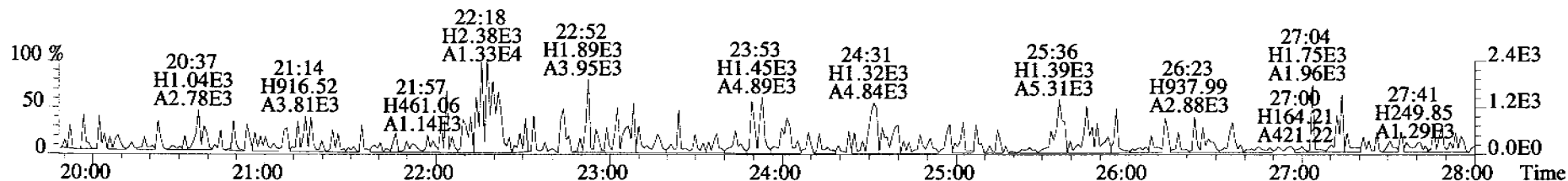


File:060920C2 #1-345 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

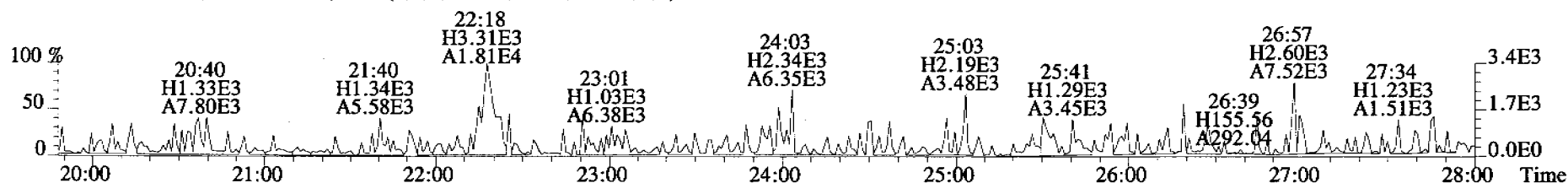




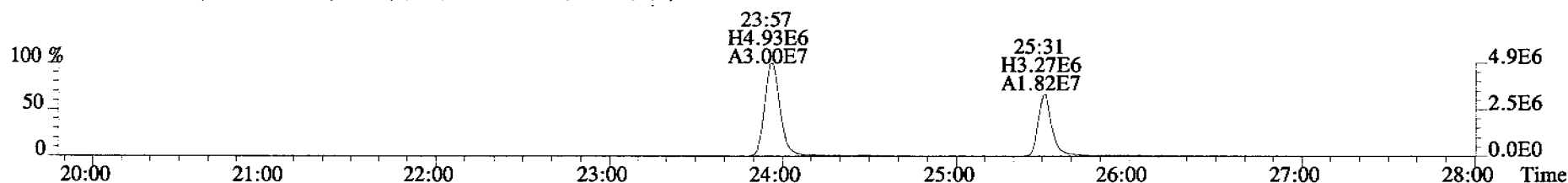
File:060920C2 #1-546 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



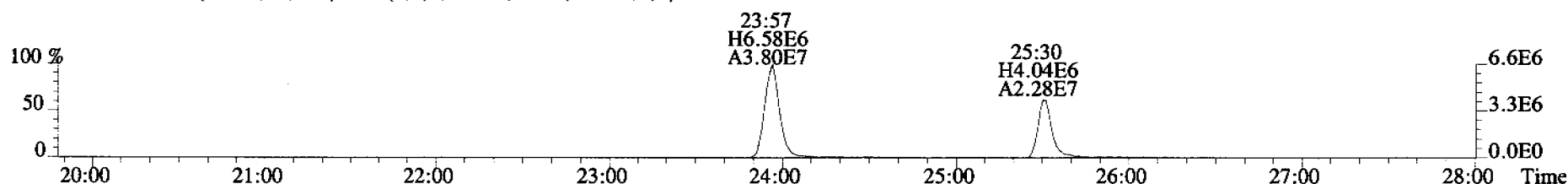
305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



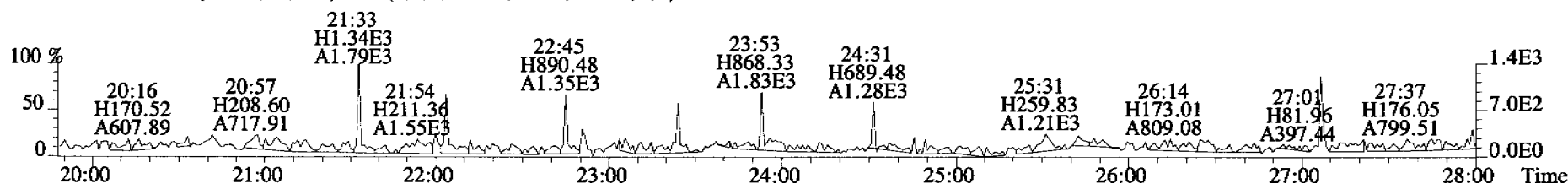
315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



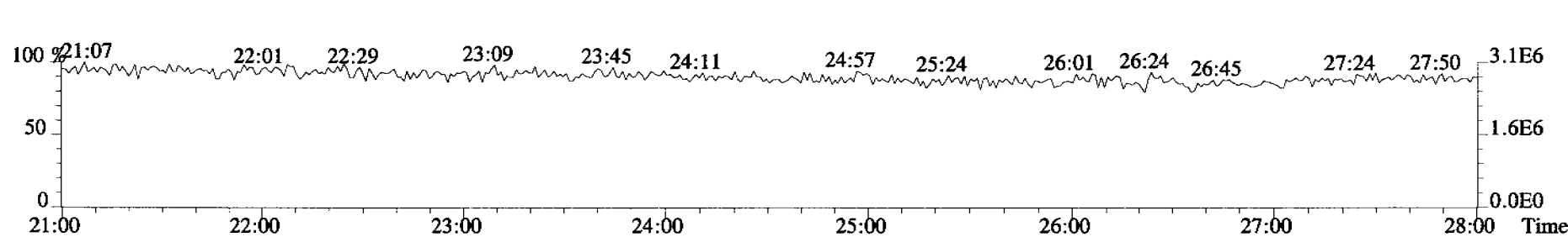
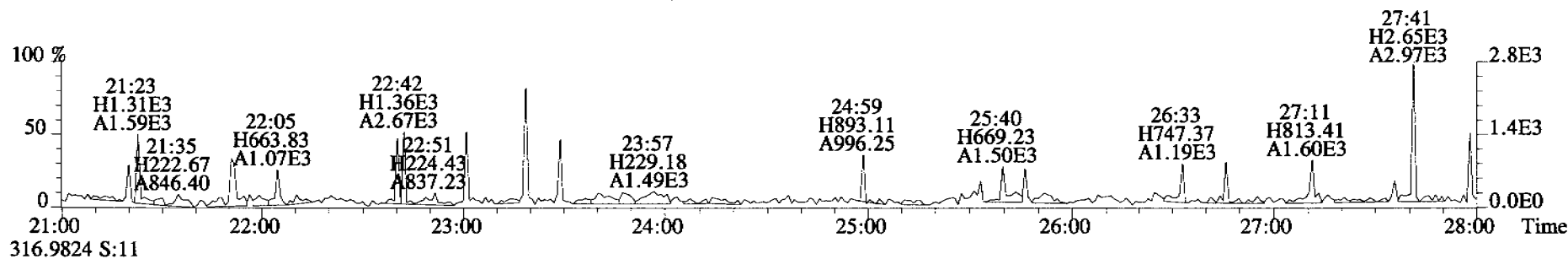
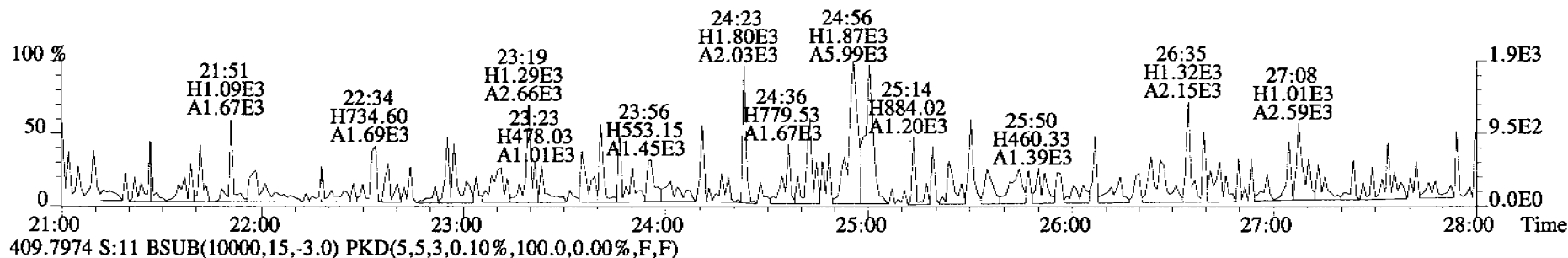
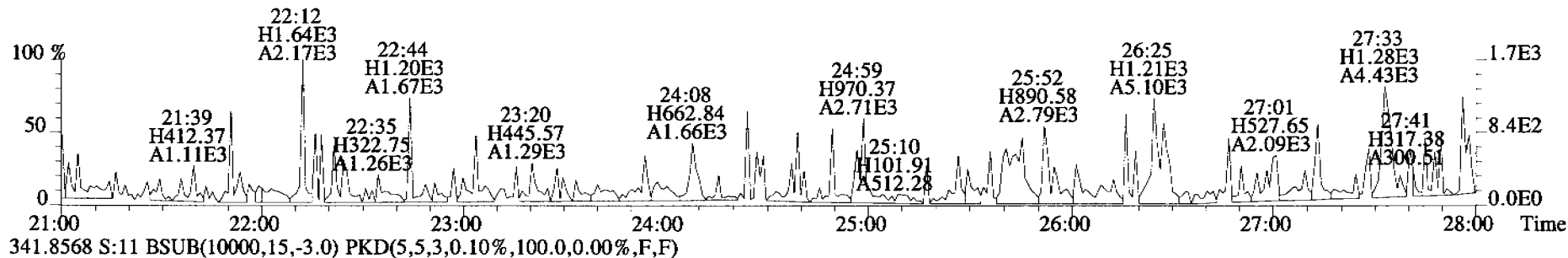
317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



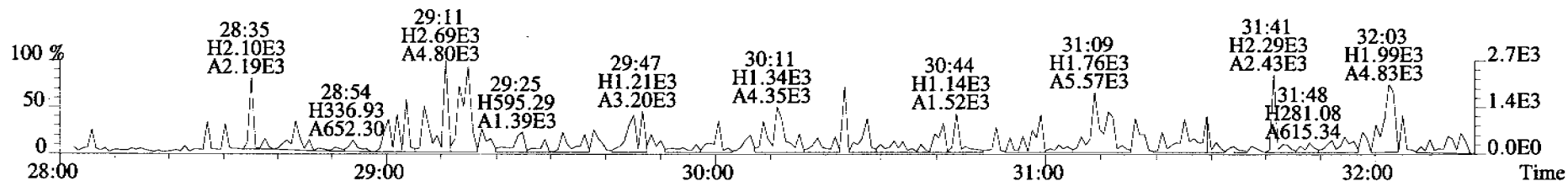
375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



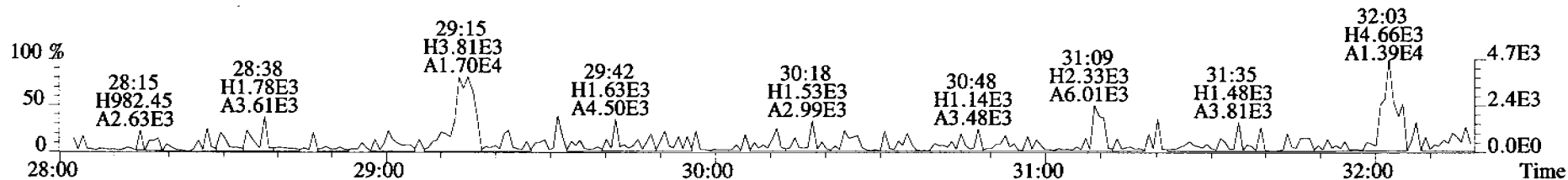
File:060920C2 #1-546 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#11 File Text:Alta Analytical Laboratory Text:28112 8381 001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
 339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



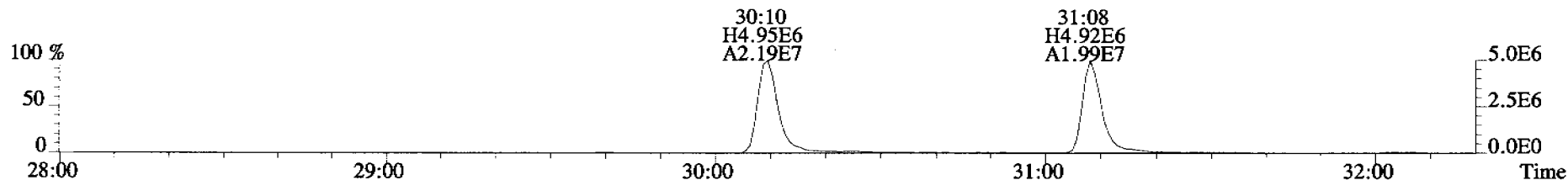
File:060920C2 #1-324 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



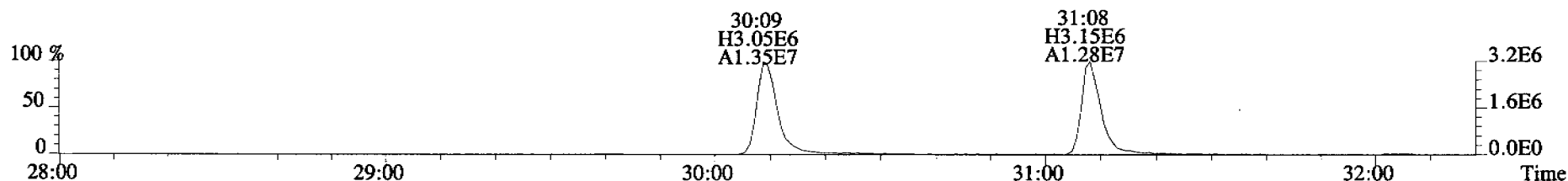
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



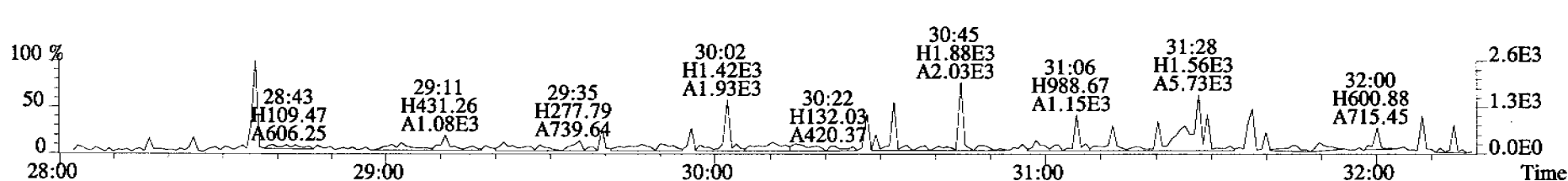
351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



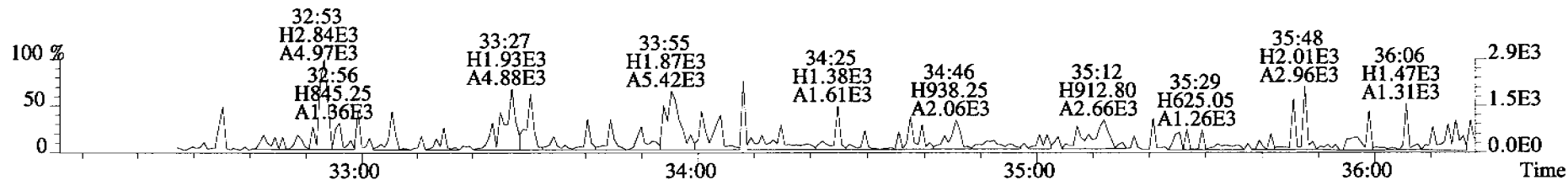
353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



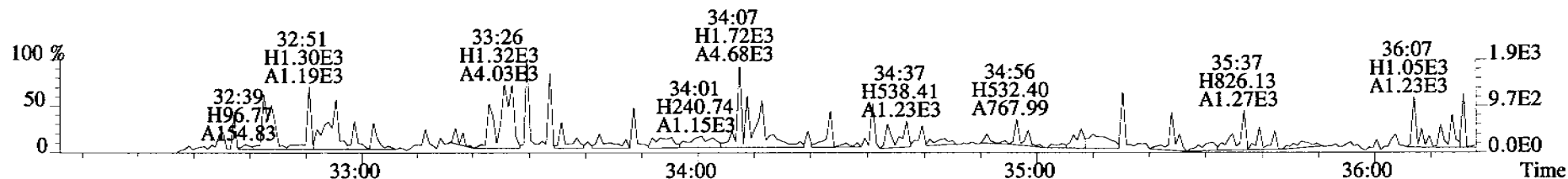
409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



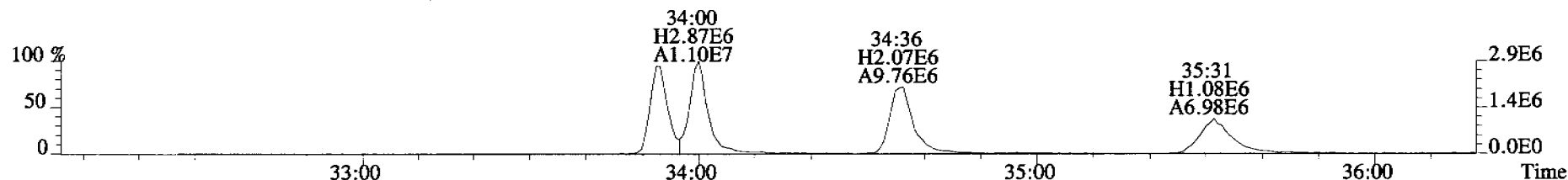
File:060920C2 #1-363 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#11 File Text:Alta Analytical Laboratory Text:28112 8381 001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
 373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



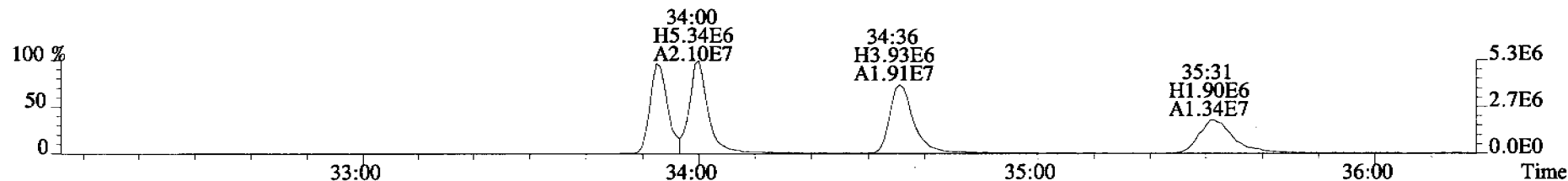
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



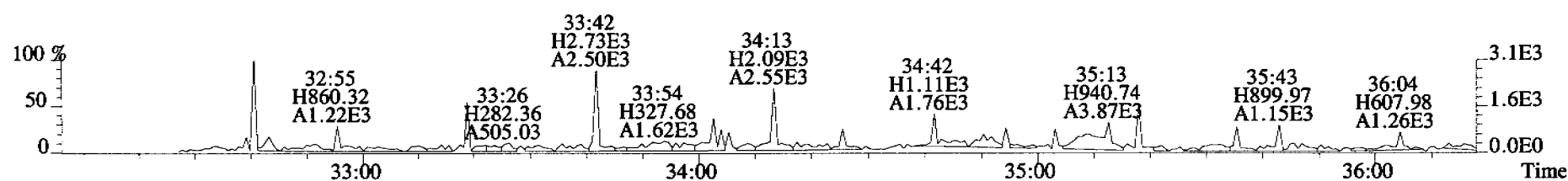
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



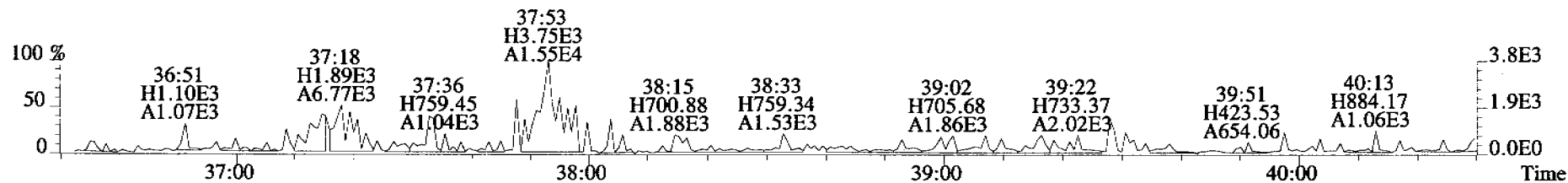
385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



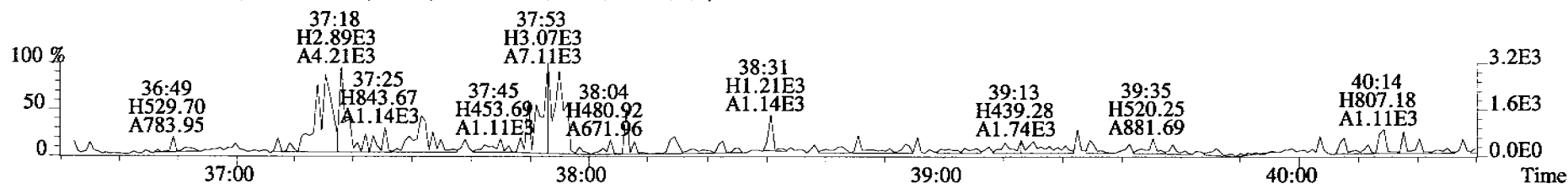
445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



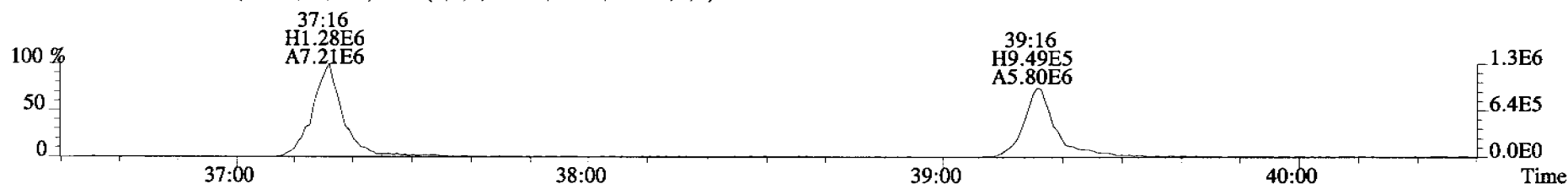
File:060920C2 #1-399 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



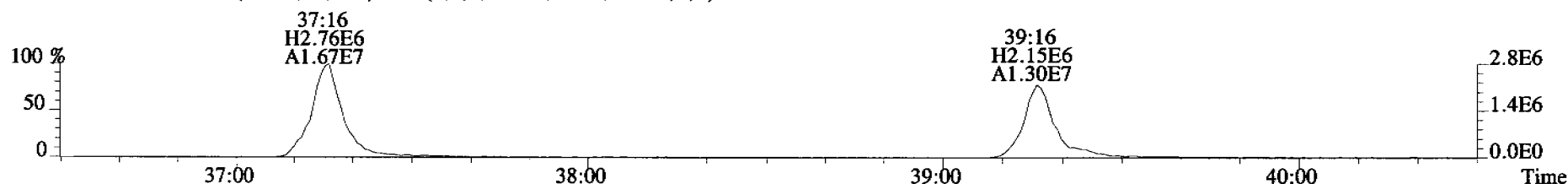
409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



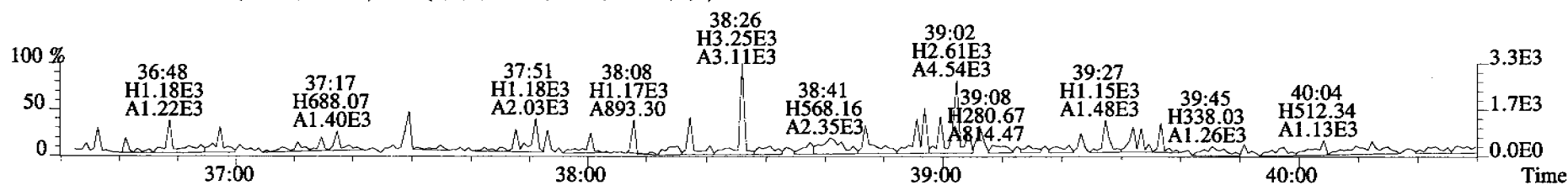
417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



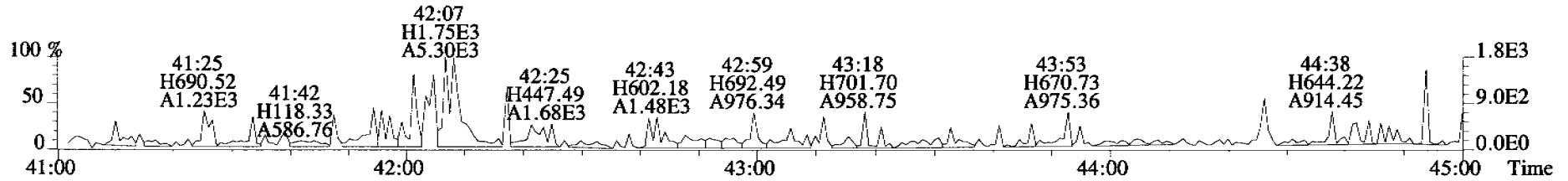
419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



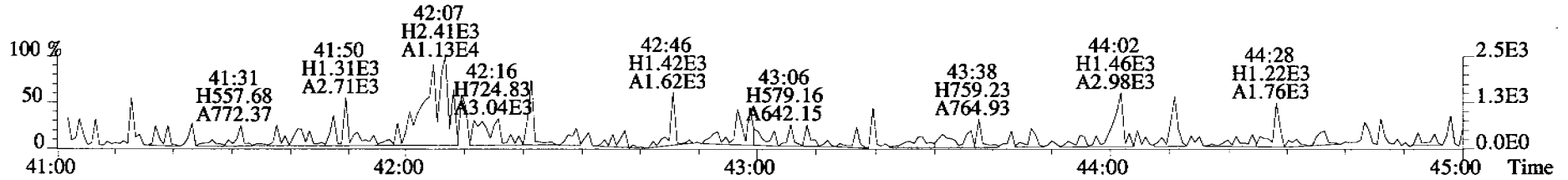
479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



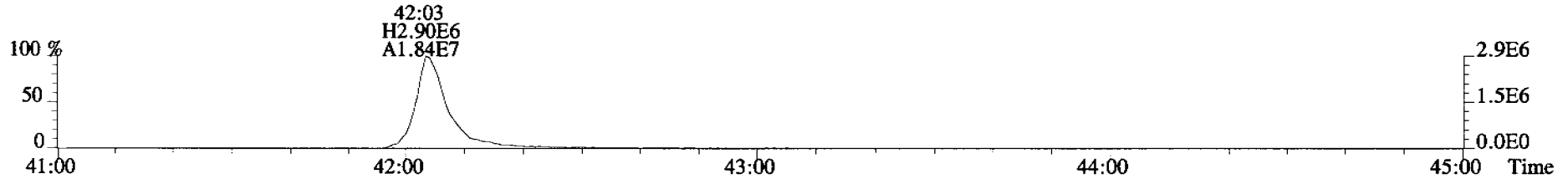
File:060920C2 #1-345 Acq:20-SEP-2006 23:30:43 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#11 File Text:Alta Analytical Laboratory Text:28112\_8381\_001 IPI1291-01 1.0120L Exp:OCDD\_DB5  
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



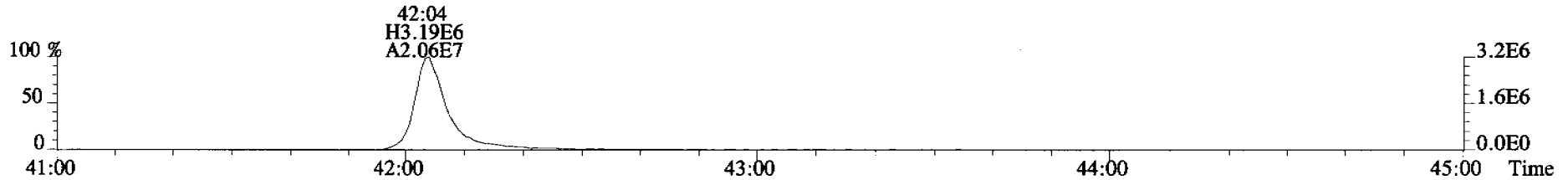
443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



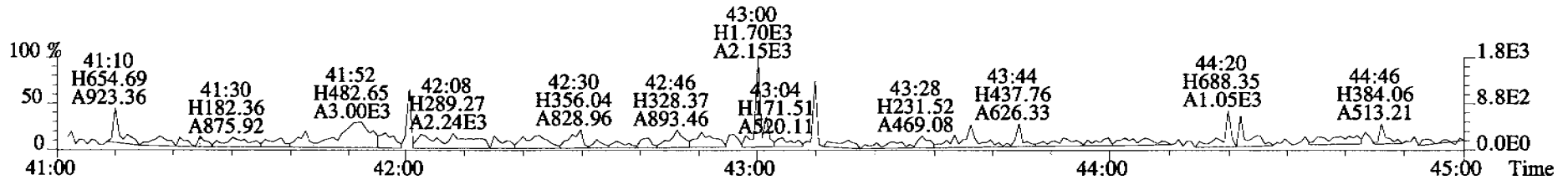
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



## 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.<br>FOUND | CONC.<br>RANGE (3)<br>(ng/mL) |
|---------------------|----------------------|-----------------|---------------|------|----------------|-------------------------------|
|                     | FORMING<br>RATIO (1) | ABUND.<br>RATIO | LIMITS<br>(2) |      |                |                               |
| 2,3,7,8-TCDD        | M/M+2                | 0.78            | 0.65-0.89     | y    | 10.00          | 7.8 - 12.9<br>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<br>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<br>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                     |  |
| 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                     | (4) No ion abundance ratio; report concentration found.  |
| 13C-OCDD                | M+2/M+4                 | 0.89             | 0.76-1.02     | y    | 194         | 96.0 - 415.0                     | (5) Contract-required concentration range, as specified in Table 6a, Method 1613, for tetras only. |
| 13C-2,3,7,8-TCDF        | M/M+2                   | 0.79             | 0.65-0.89     | y    | 107         | 71.0 - 140.0<br>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)    |                         |                  |               |      |             |                                  |  |
| 37Cl-2,3,7,8-TCDD       |                         |                  |               |      | 10.1        | 7.9 - 12.7<br>8.3 - 12.1 (5)     | Date: <u>3/22/06</u>   |

## 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.<br>FOUND | CONC.<br>RANGE<br>(ng/mL) |
|---------------------|------------------|-----------------|-----------|------|----------------|---------------------------|
|                     | FORMING<br>RATIO | ABUND.<br>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<br>FORMING<br>RATIO | ION<br>ABUND.<br>RATIO | QC<br>LIMITS | Pass | CONC.<br>FOUND | CONC.<br>RANGE<br>(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<br>RT | ISOMERS                 | ABSOLUTE<br>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)

&lt;25%

Analyst: AMDate: 3/23/06

(1) To meet contract requirements, %Valley Height Between Compared  
Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

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: ym

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

| Name                | Resp     | RA     | RRF  | RT    | Conc   | Qual | noise | Fac | DL |
|---------------------|----------|--------|------|-------|--------|------|-------|-----|----|
| 2,3,7,8-TCDD        | 1.79e+07 | 0.78 y | 1.08 | 26:33 | 9.9986 |      | *     | 2.5 | *  |
| 1,2,3,7,8-PeCDD     | 7.94e+07 | 0.63 y | 1.03 | 31:17 | 48.413 |      | *     | 2.5 | *  |
| 1,2,3,4,7,8-HxCDD   | 7.27e+07 | 1.23 y | 1.13 | 34:34 | 50.100 |      | *     | 2.5 | *  |
| 1,2,3,6,7,8-HxCDD   | 8.37e+07 | 1.27 y | 1.03 | 34:41 | 46.322 |      | *     | 2.5 | *  |
| 1,2,3,7,8,9-HxCDD   | 8.40e+07 | 1.24 y | 1.12 | 34:58 | 49.626 |      | *     | 2.5 | *  |
| 1,2,3,4,6,7,8-HpCDD | 6.84e+07 | 1.03 y | 1.02 | 38:31 | 50.200 |      | *     | 2.5 | *  |
| OCDD                | 1.16e+08 | 0.90 y | 1.06 | 41:47 | 98.413 |      | *     | 2.5 | *  |
| 2,3,7,8-TCDF        | 2.23e+07 | 0.77 y | 1.06 | 25:42 | 9.6429 |      | *     | 2.5 | *  |
| 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 | *  |

| Name                | Conc   | EMPC   | Qual | noise | DL |
|---------------------|--------|--------|------|-------|----|
| Total Tetra-Dioxins | 52.364 | 52.641 | *    | *     | *  |
| Total Penta-Dioxins | 143.45 | 143.74 | *    | *     | *  |
| Total Hexa-Dioxins  | 202.96 | 203.37 | *    | *     | *  |
| Total Hepta-Dioxins | 100.70 | 101.63 | *    | *     | *  |
| Total Tetra-Furans  | 30.189 | 30.289 | *    | *     | *  |
| Total Penta-Furans  | 181.82 | 182.98 | *    | *     | *  |
| Total Hexa-Furans   | 243.28 | 244.86 | *    | *     | *  |
| Total Hepta-Furans  | 97.658 | 99.281 | *    | *     | *  |

Rec Qual

104

104

95.4

104

97.4

97.0

107

107

107

97.8

102

99.9

101

100

96.5

99.0

101

Integrations

Reviewed

by

by

Analyst: MJ

Analyst: \_\_\_\_\_

Date: 3/22/06

Date: \_\_\_\_\_

Run: 060322C1

Analyte:

Cal: 1613VG5-3-22-06

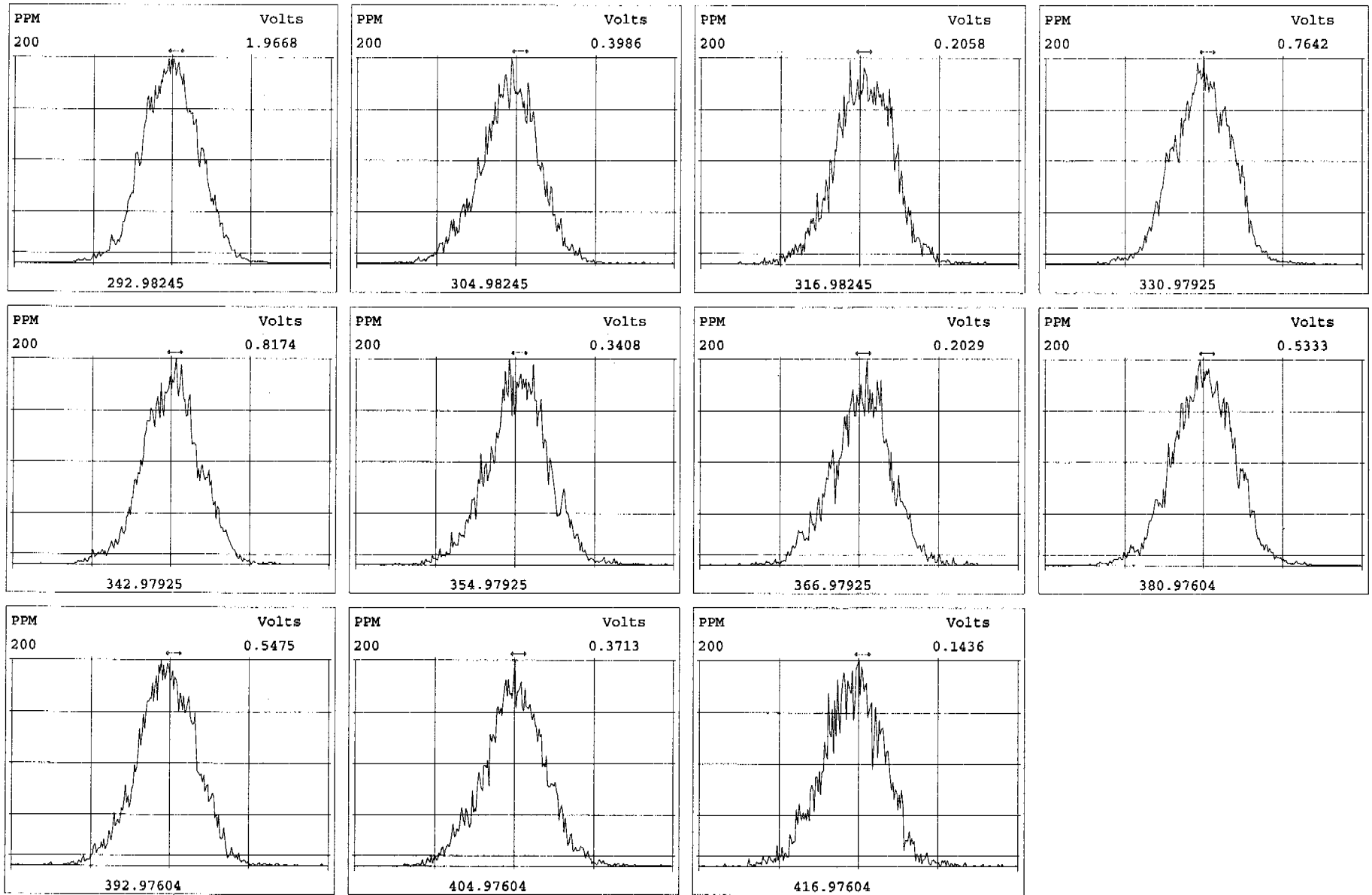
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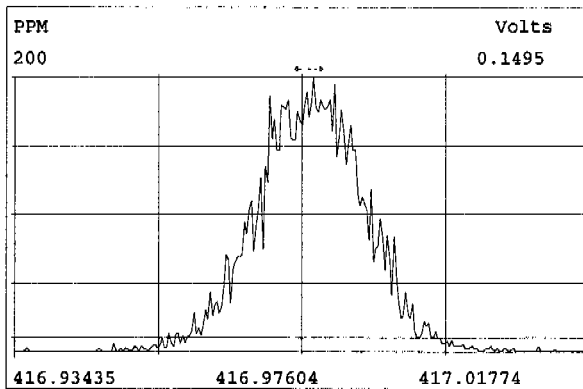
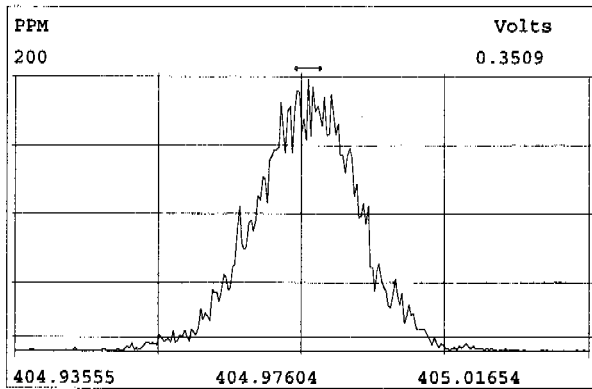
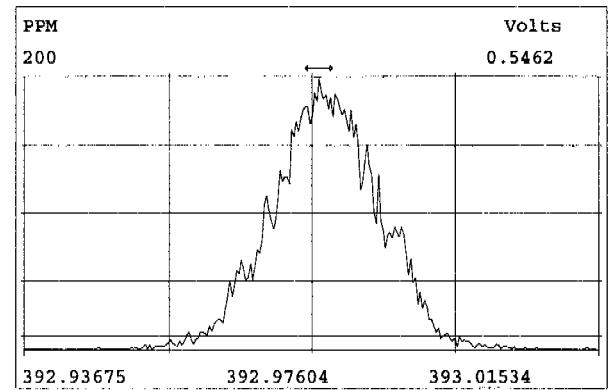
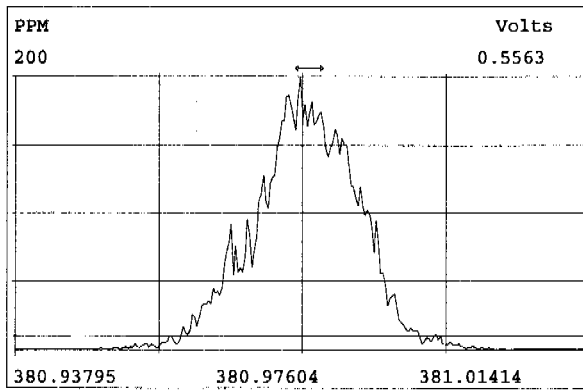
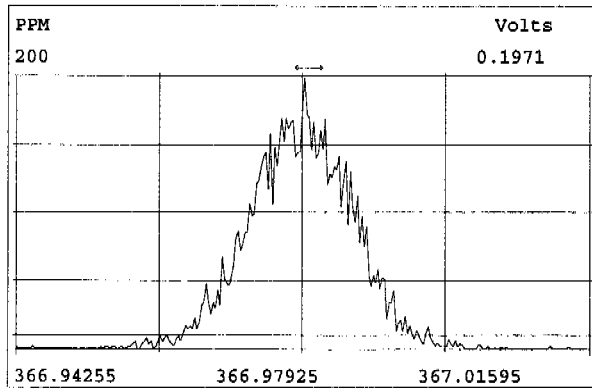
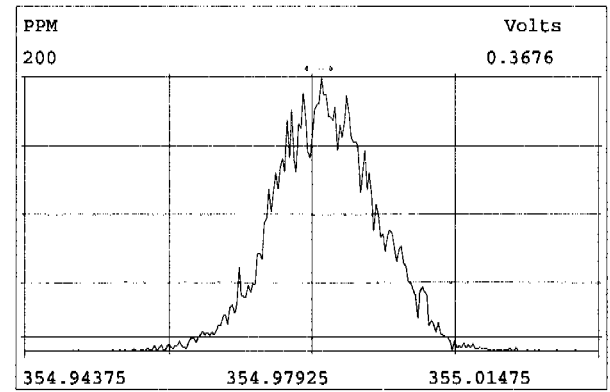
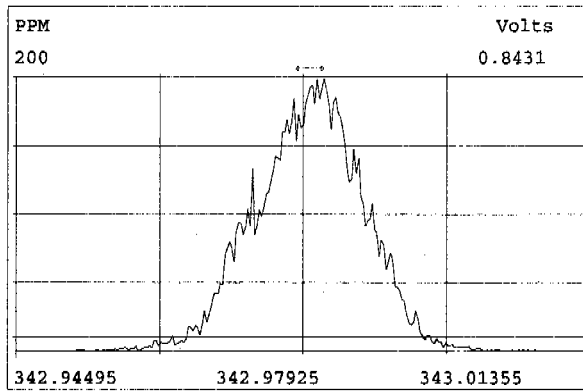
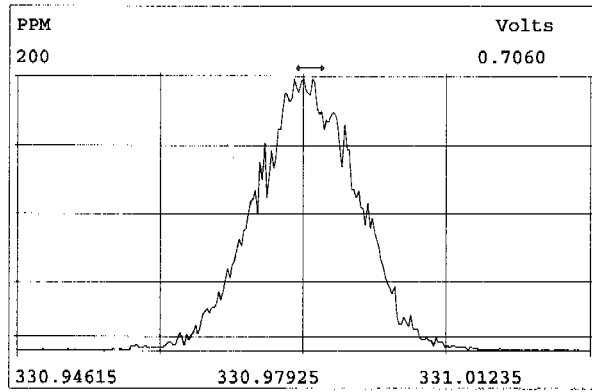
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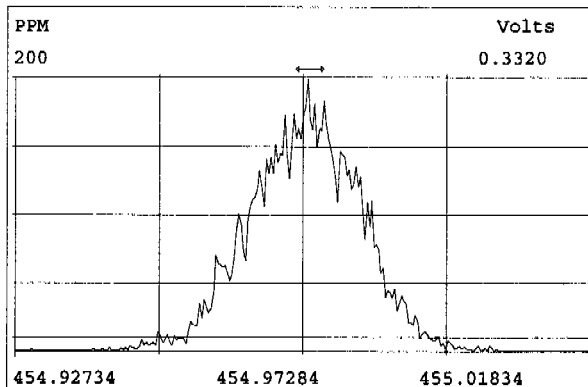
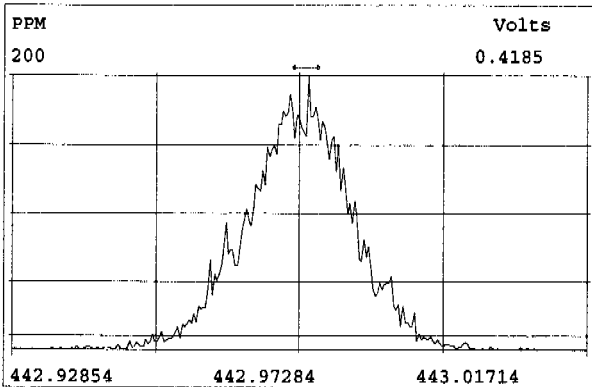
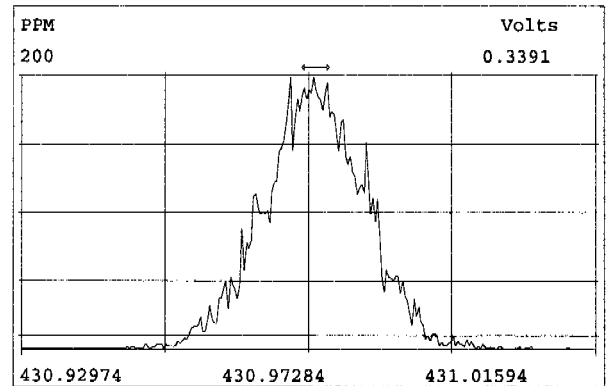
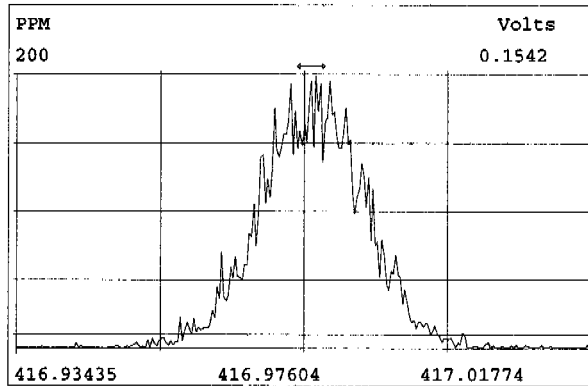
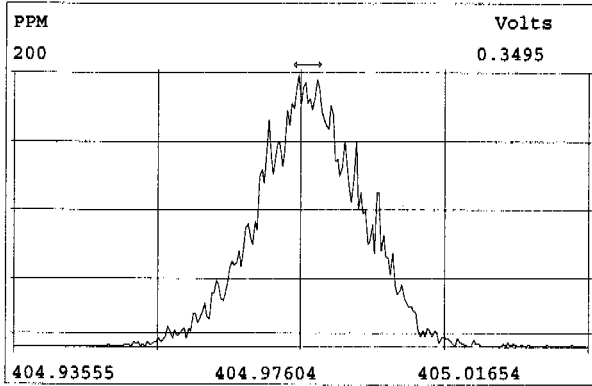
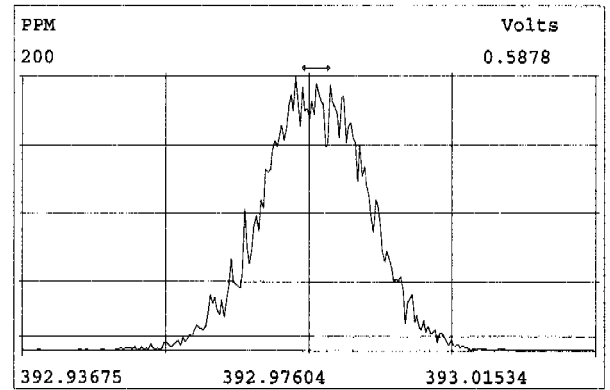
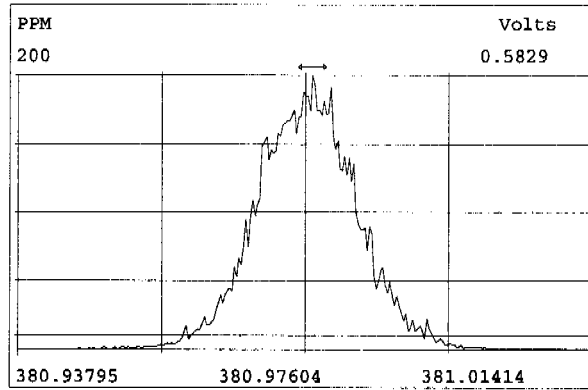
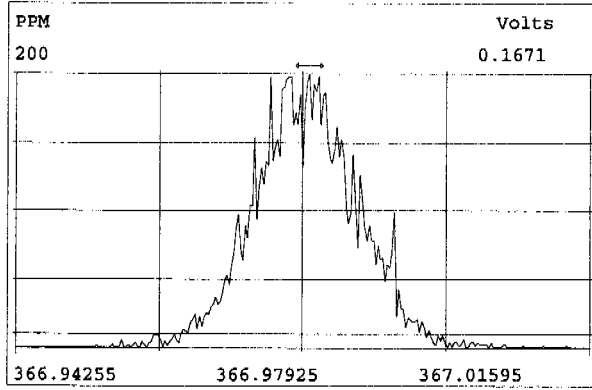
| Name                    | RRT Limits |        | Samp# 1 | Samp# 3 | Samp# 4 | Samp# 5 | Samp# 6 | Samp# 7 |
|-------------------------|------------|--------|---------|---------|---------|---------|---------|---------|
|                         | Lower      | Upper  | 10      | 0.25    | 0.50    | 2.0     | 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 | *       | *       | *       | *       | *       | *       |

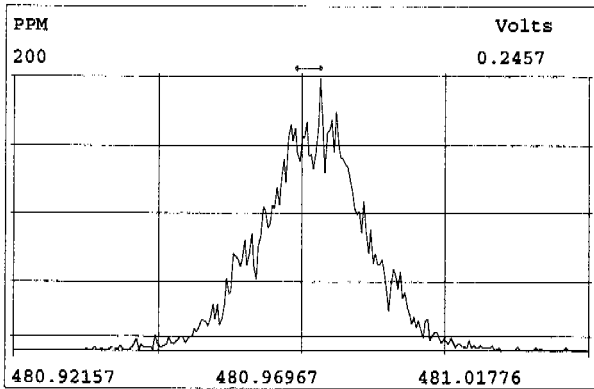
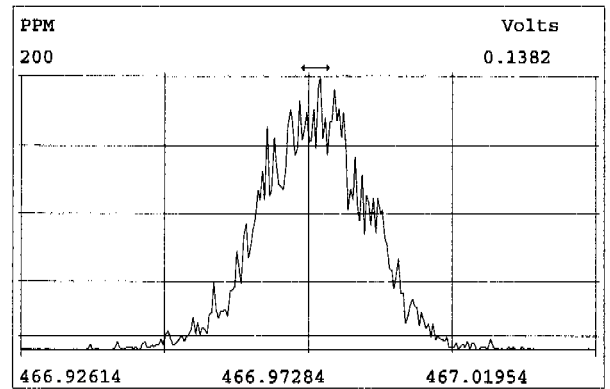
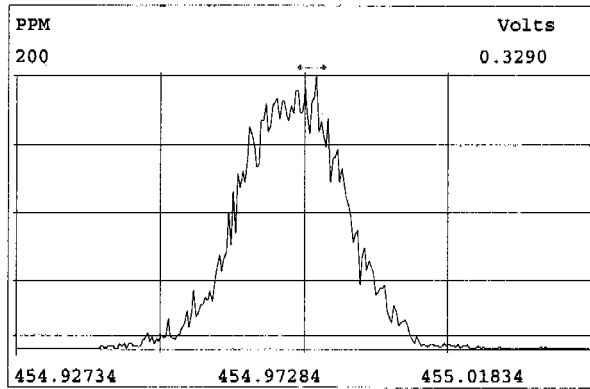
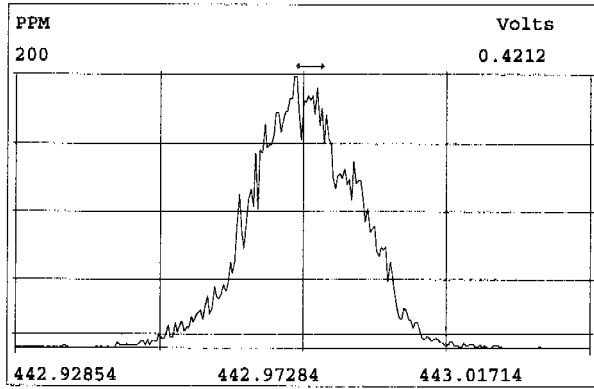
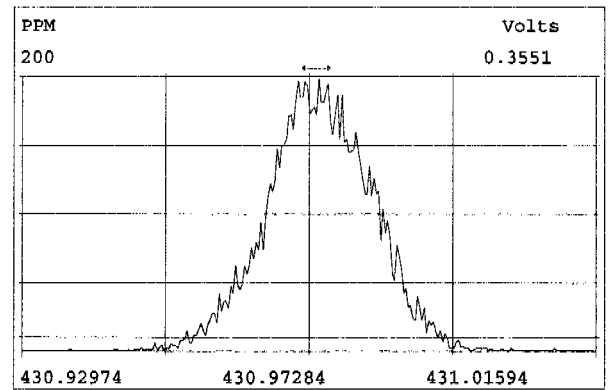
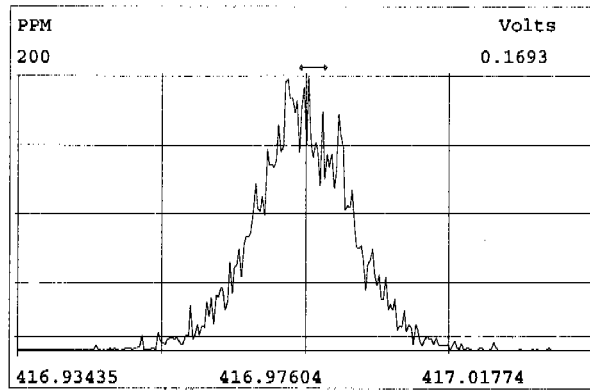
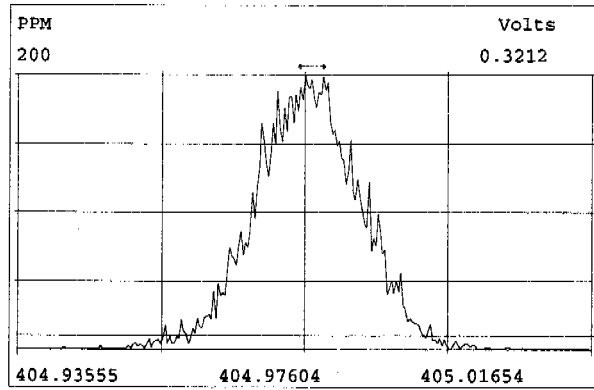
Alta Analytical Laboratory - Injection Log Run file: 060322C1 Instrument ID: VG-5 GC Column ID: db-5

| 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   |

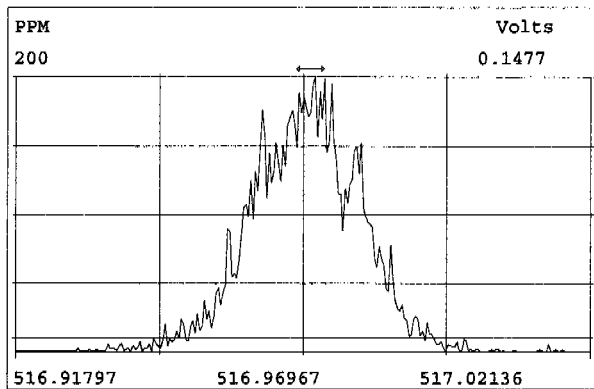
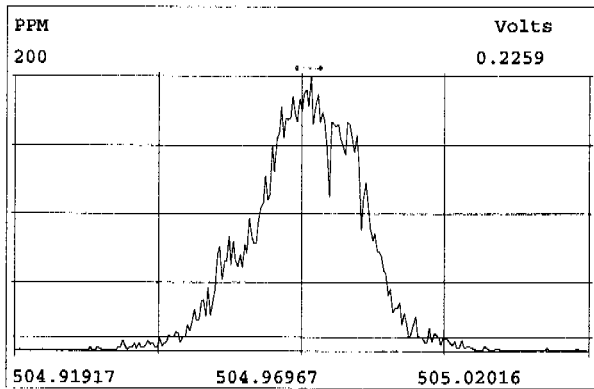
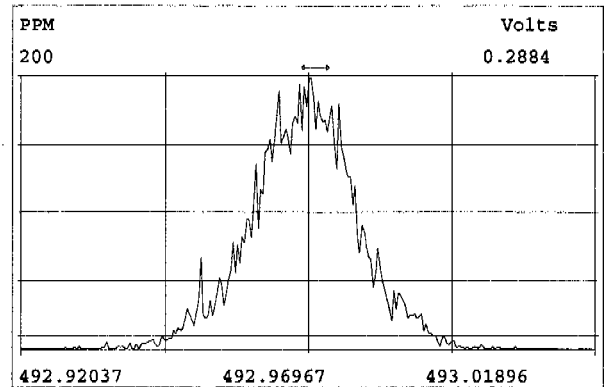
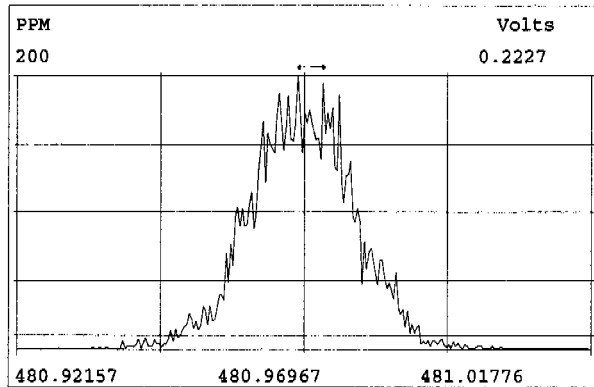
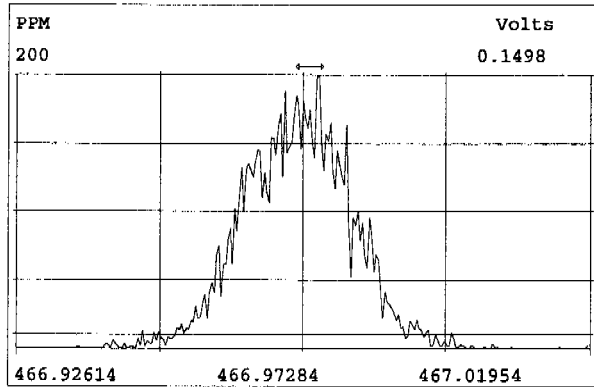
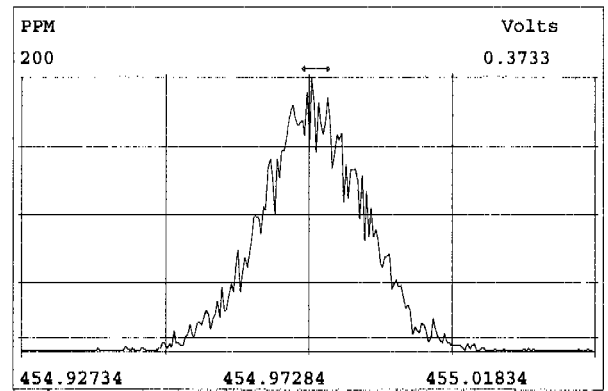
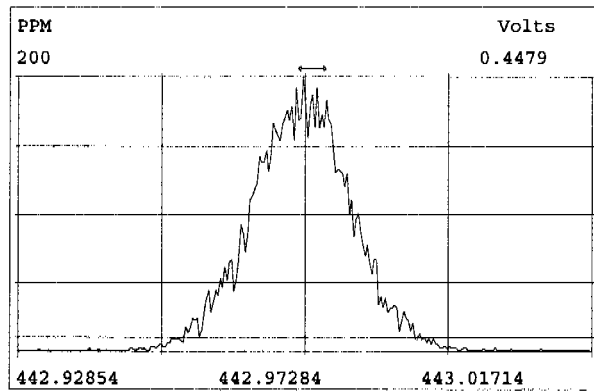
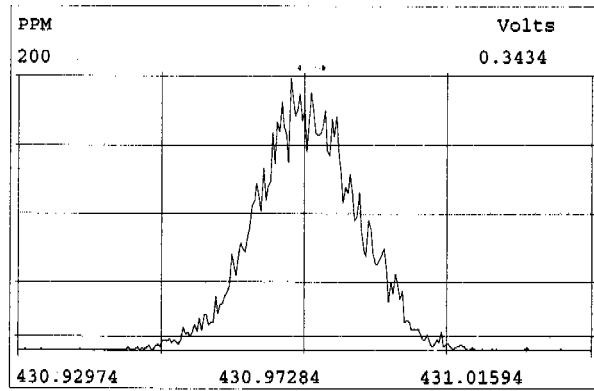




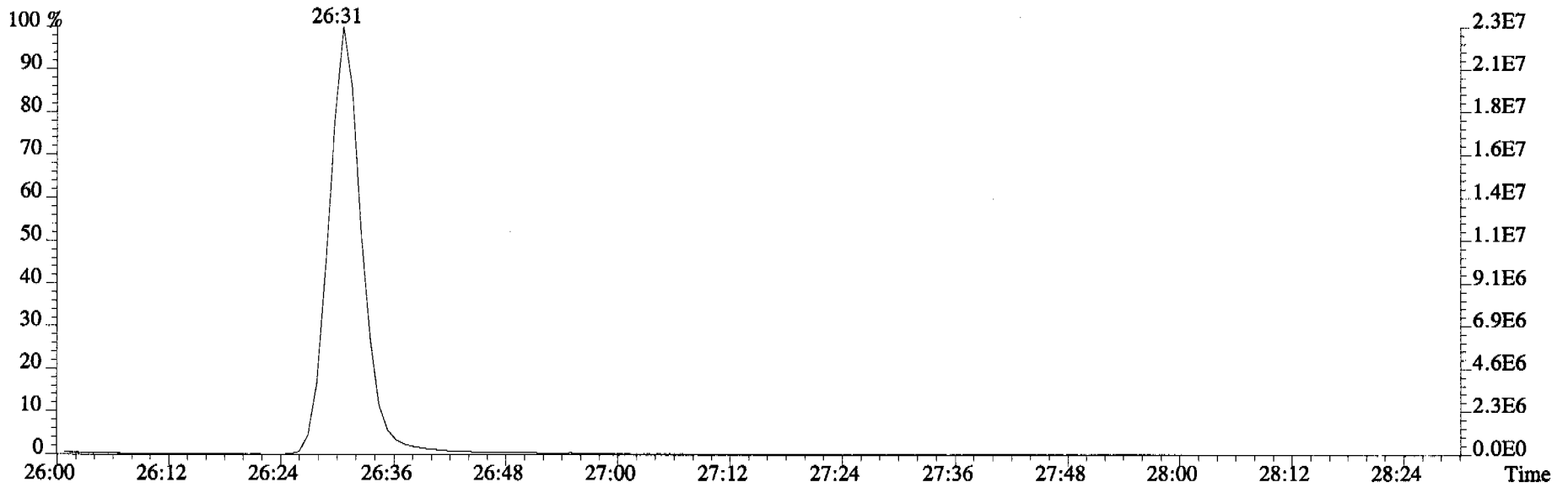
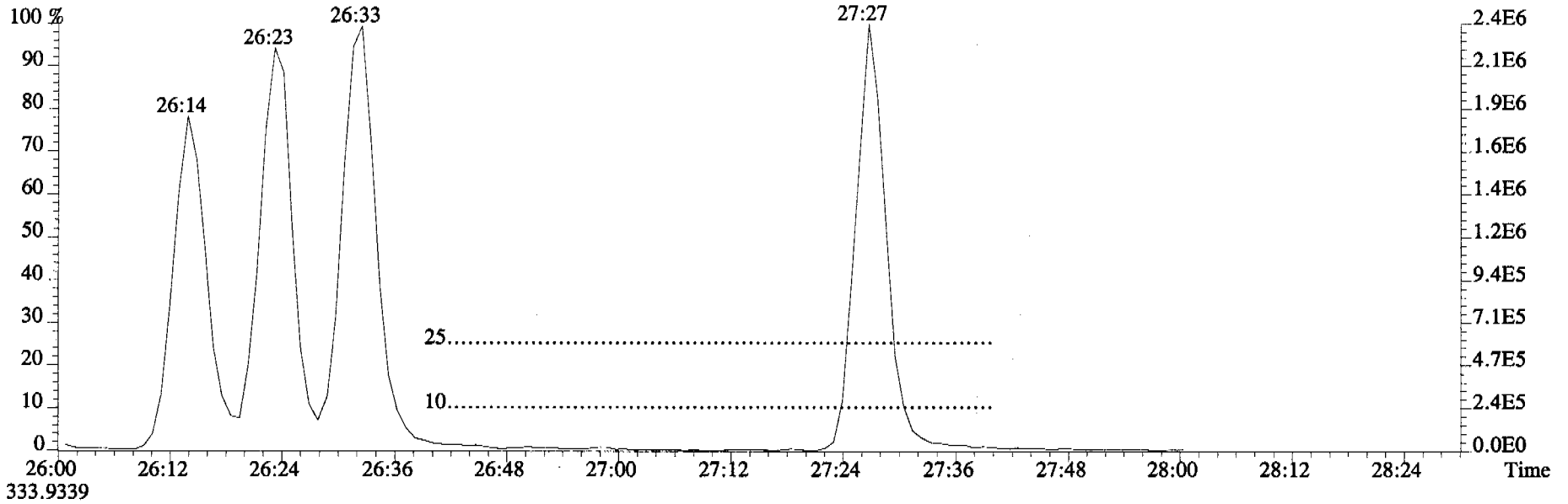




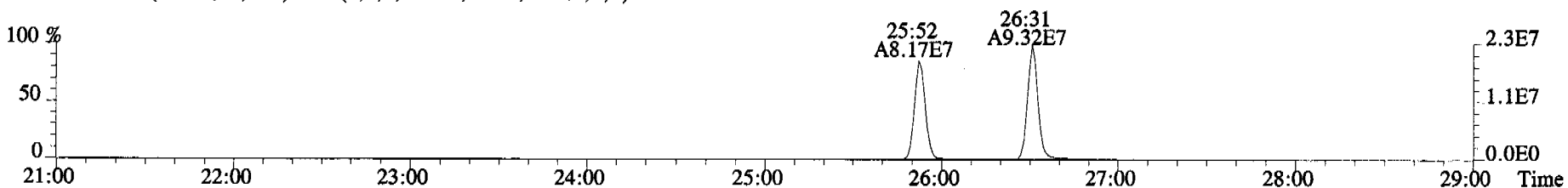
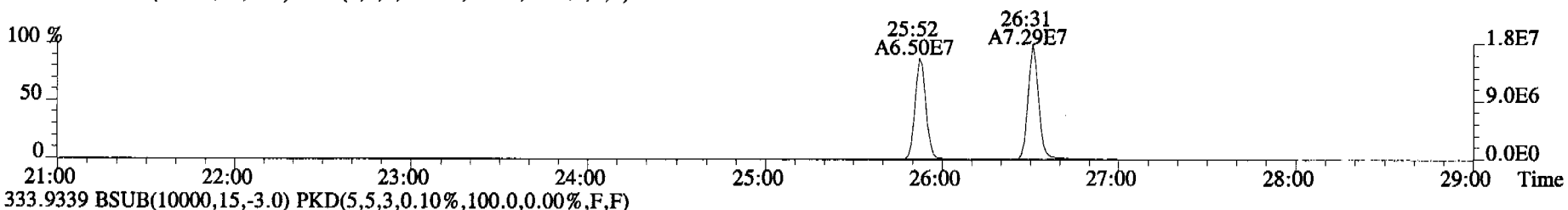
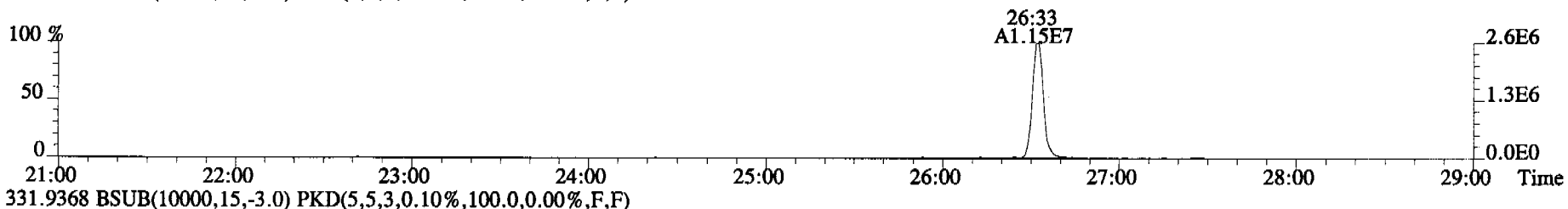
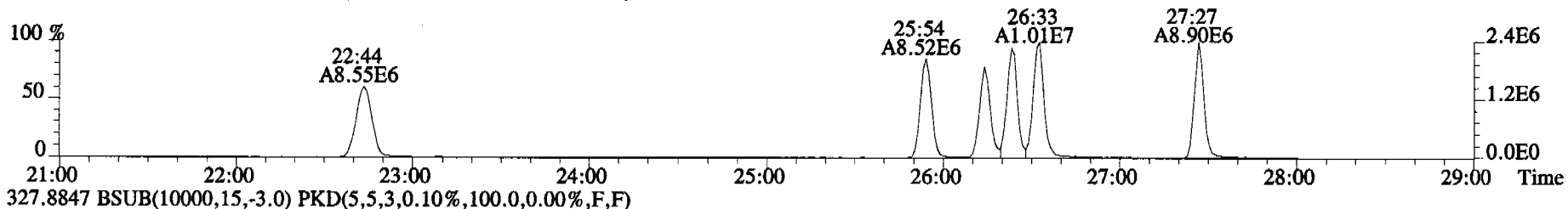
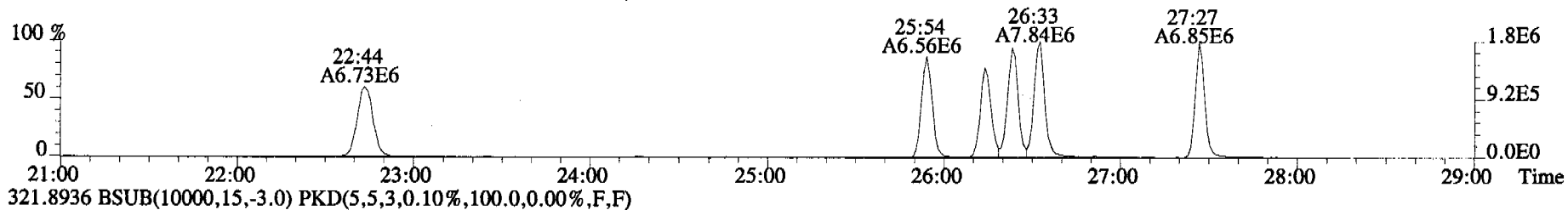




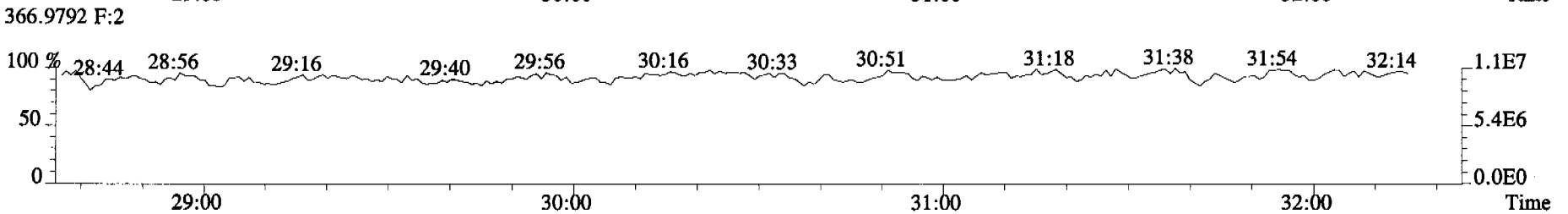
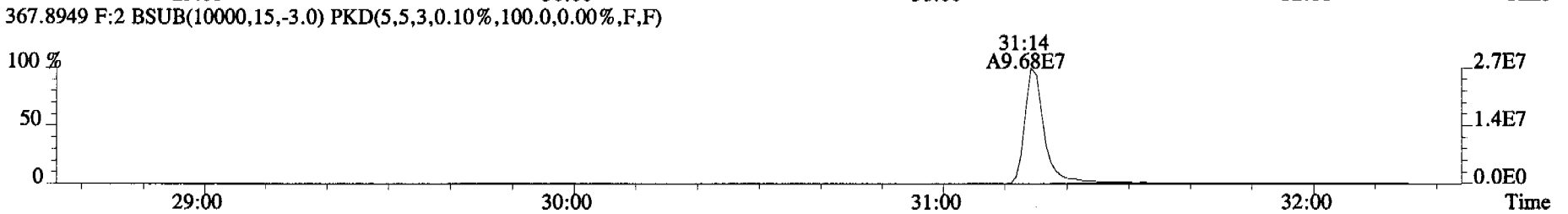
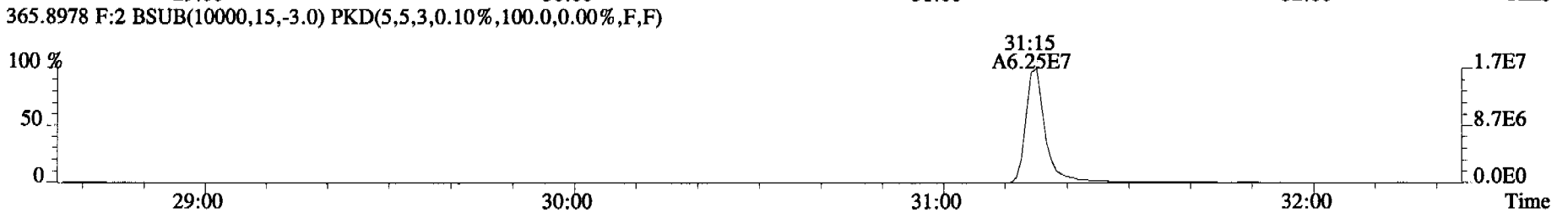
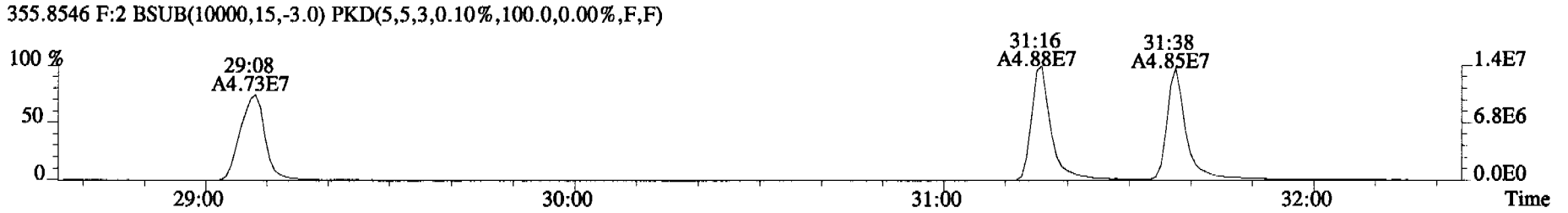
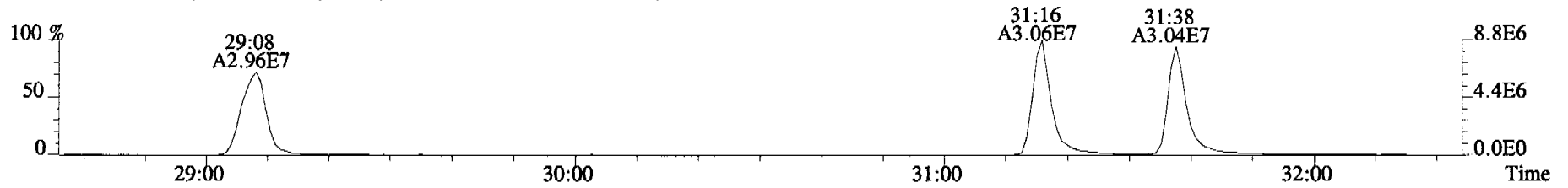
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
321.8936



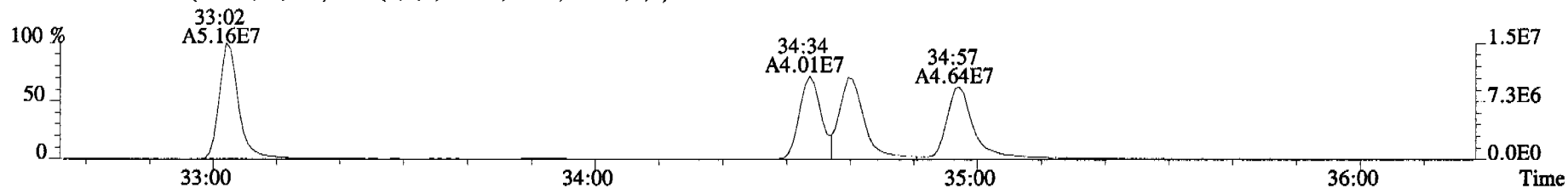
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



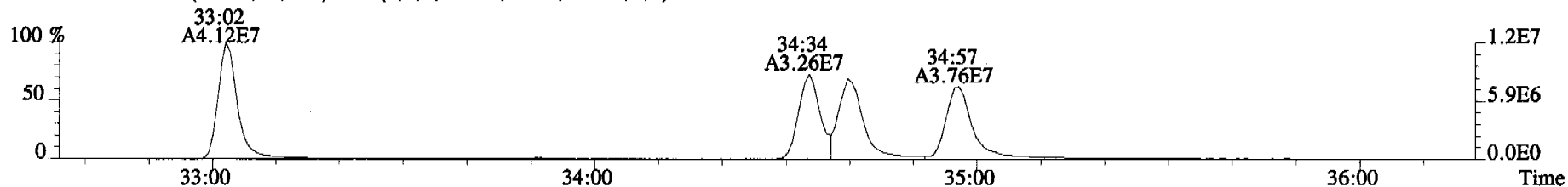
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



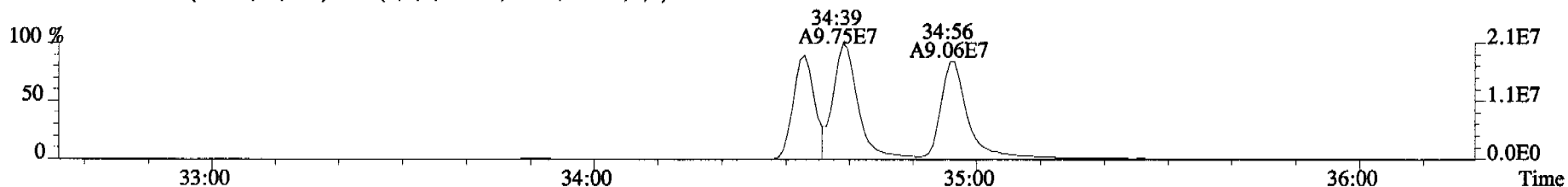
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



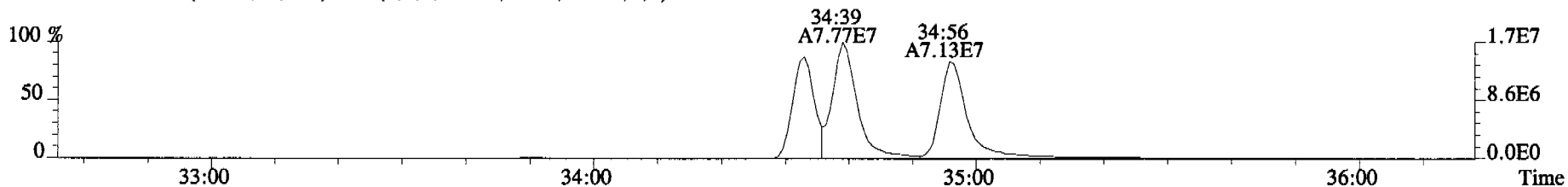
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



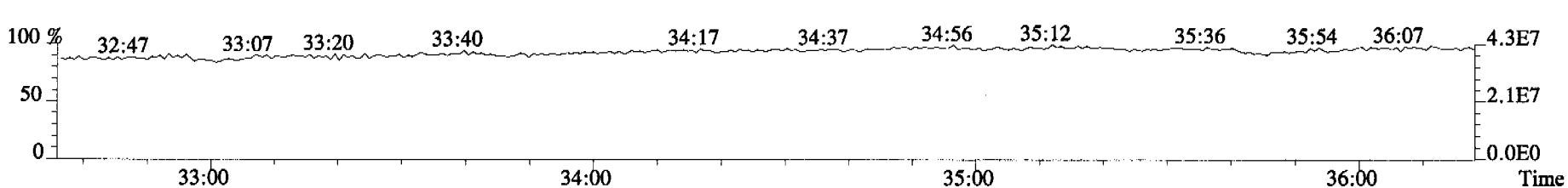
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



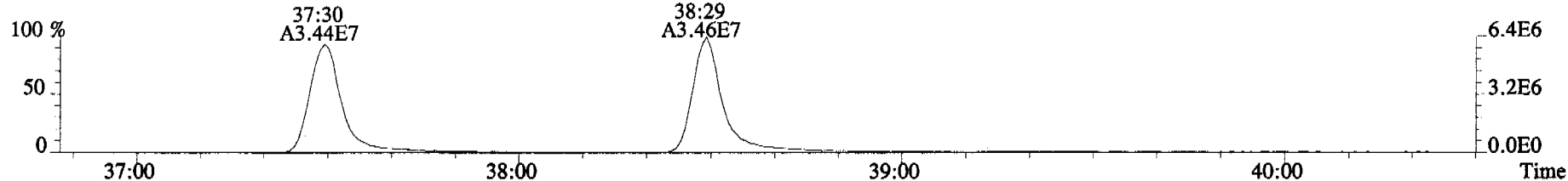
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



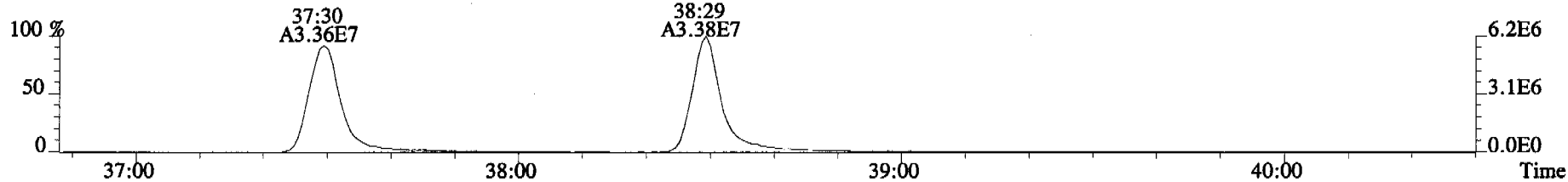
380.9760 F:3



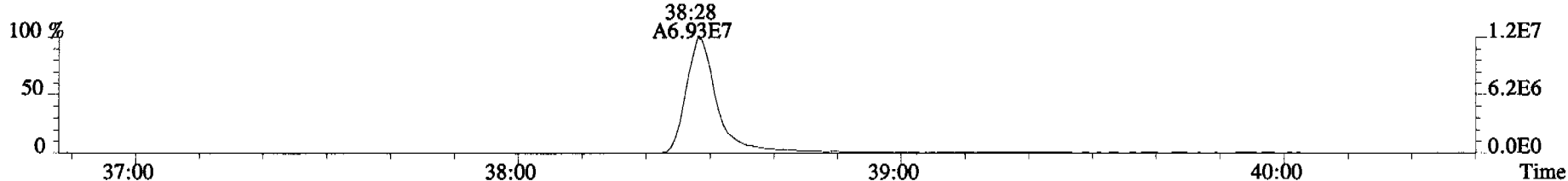
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



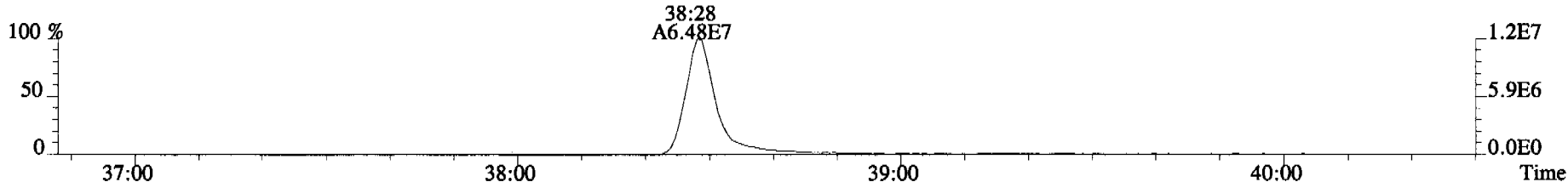
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



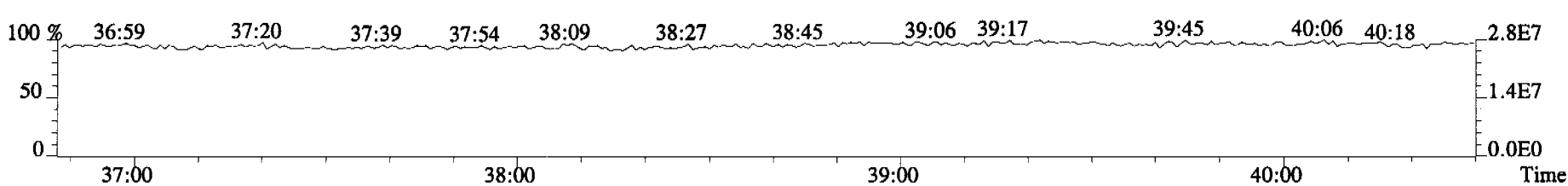
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



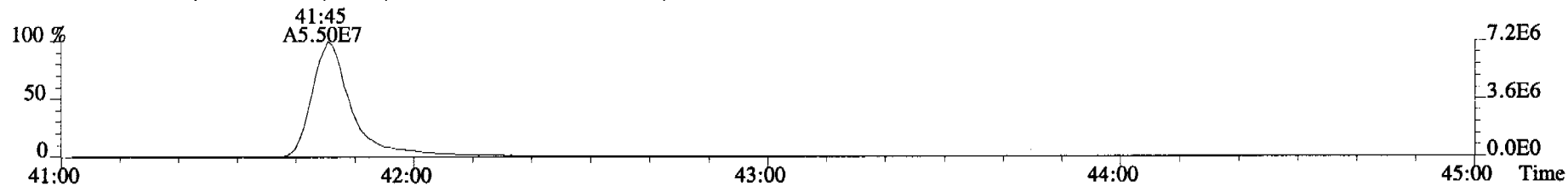
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



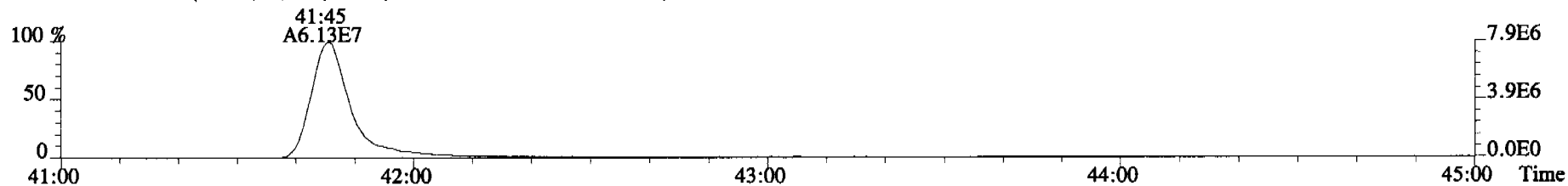
430.9728 F:4



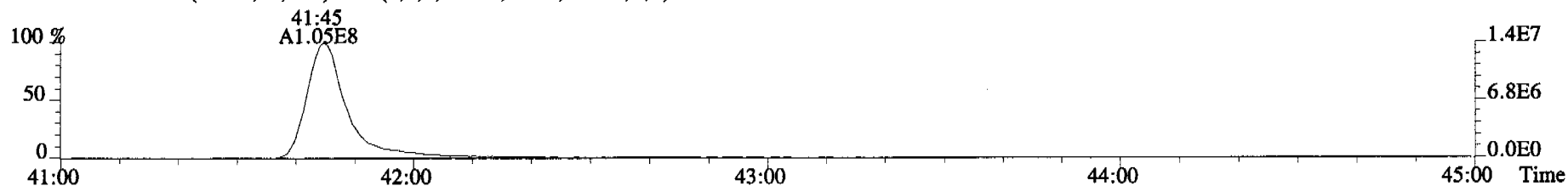
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



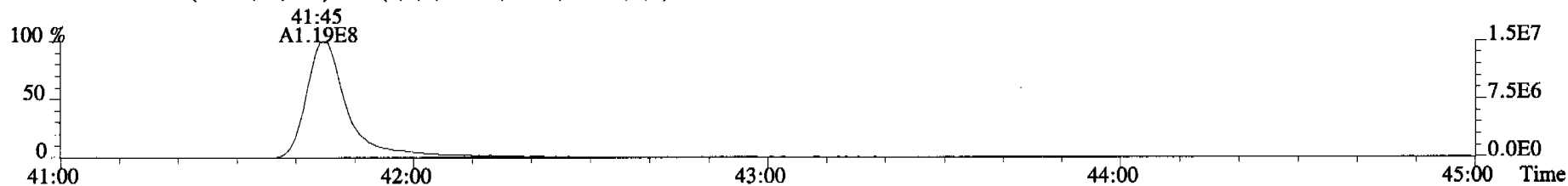
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



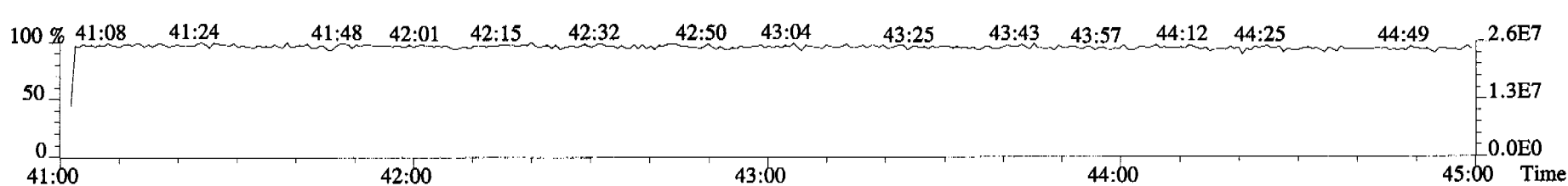
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



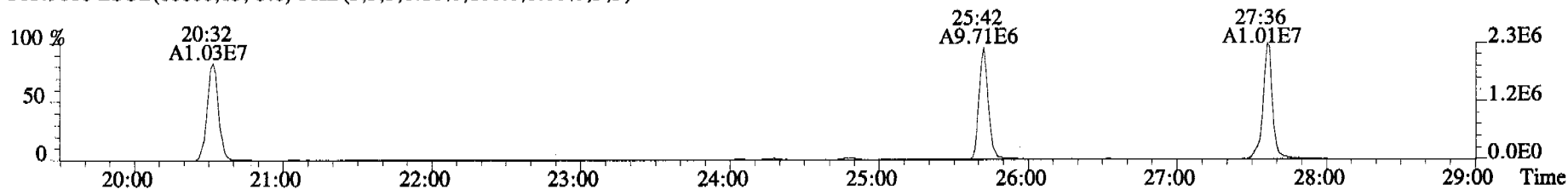
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



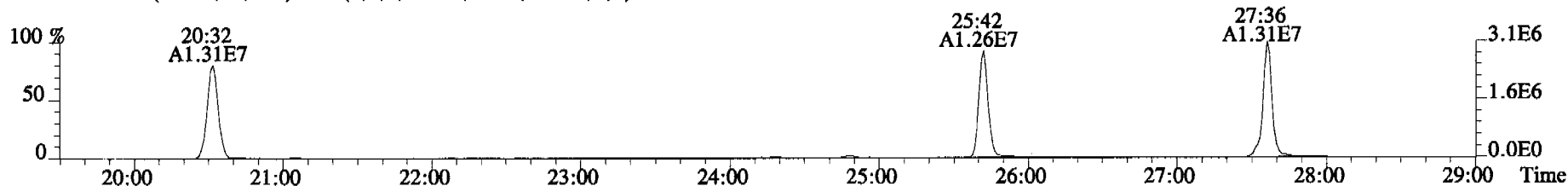
454.9728 F:5



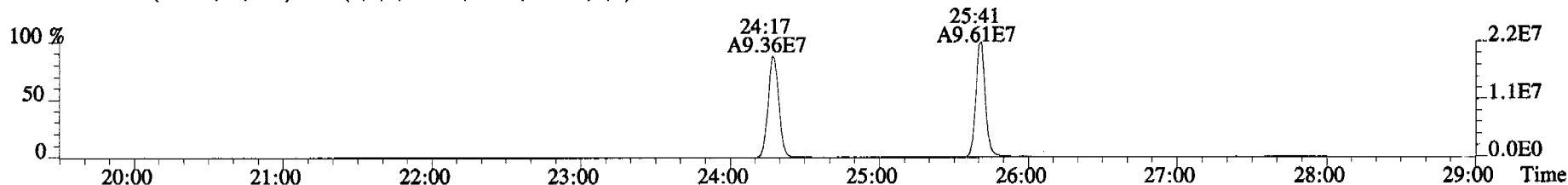
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



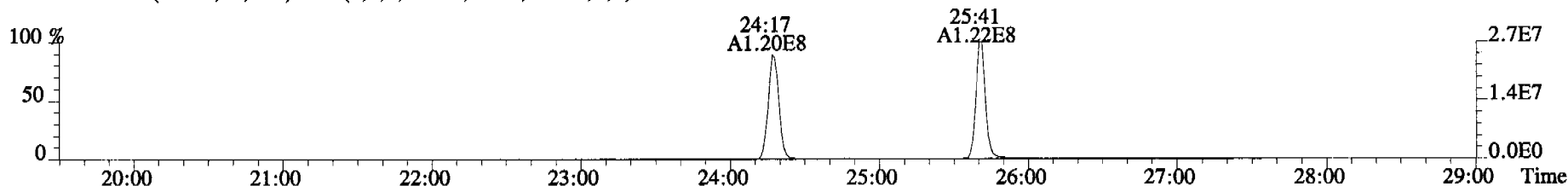
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



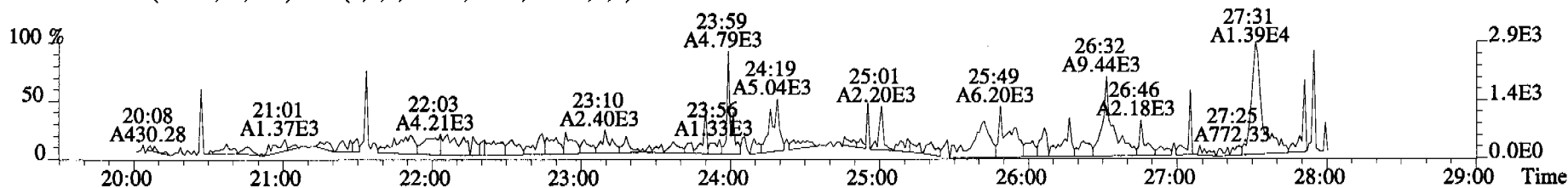
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

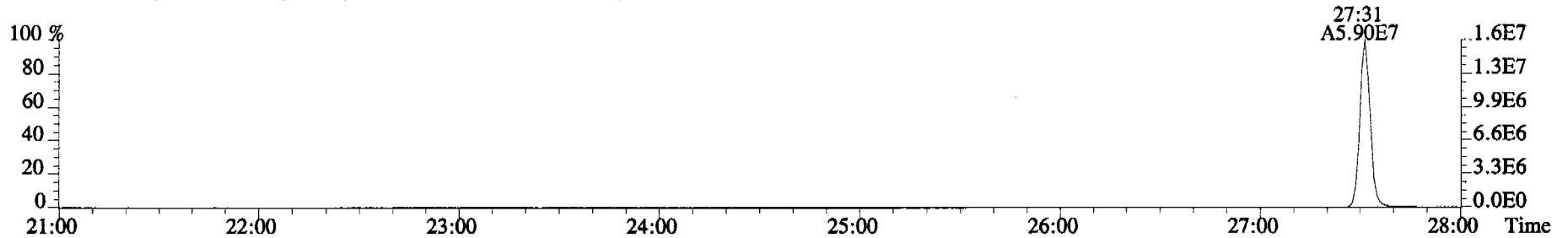


375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

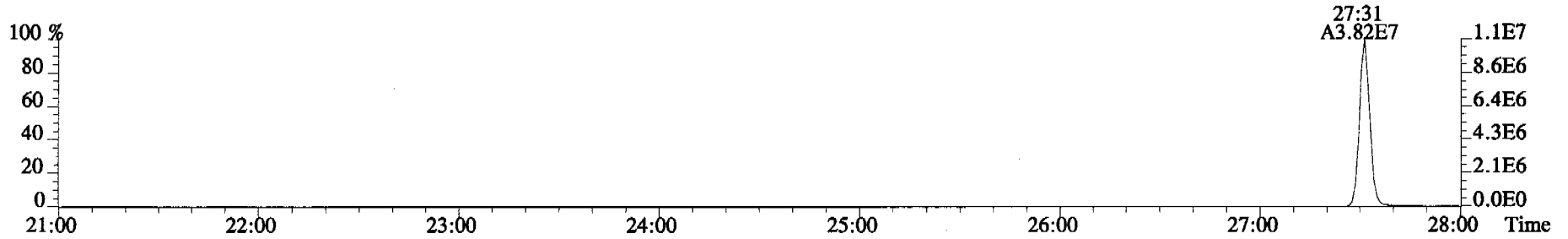




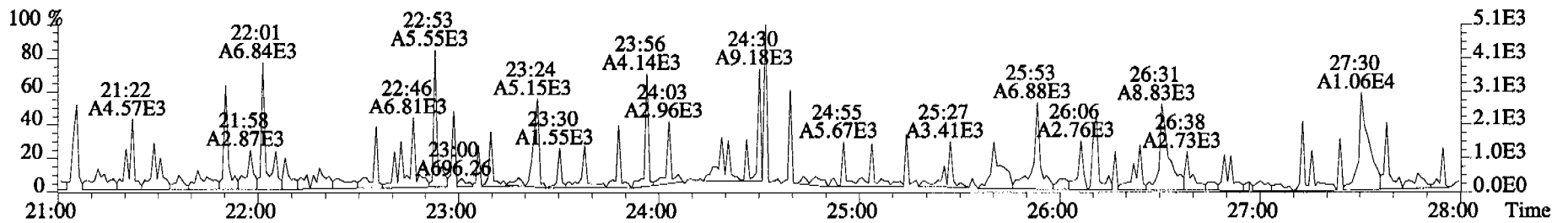
File:060322C1 #1-514 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



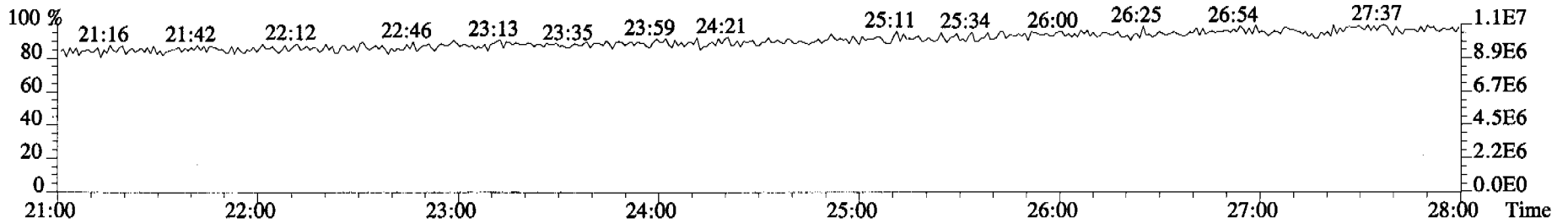
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



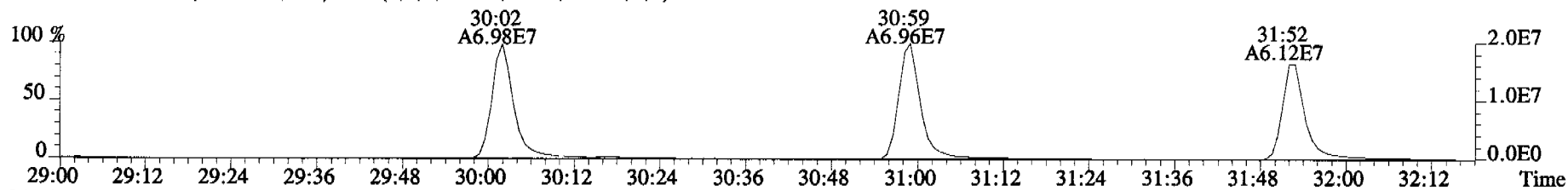
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



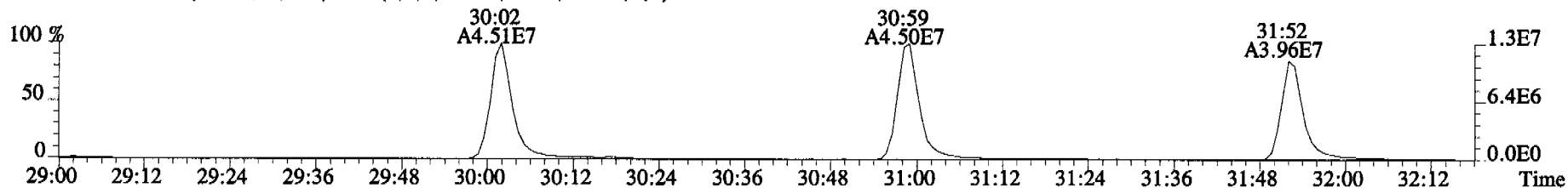
316.9824



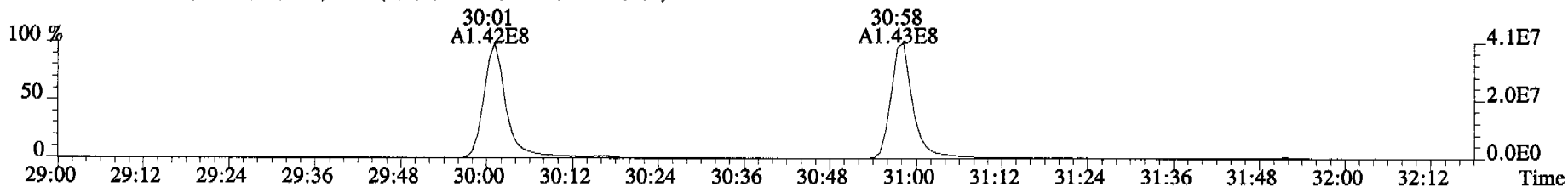
File:060322C1 #1-316 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



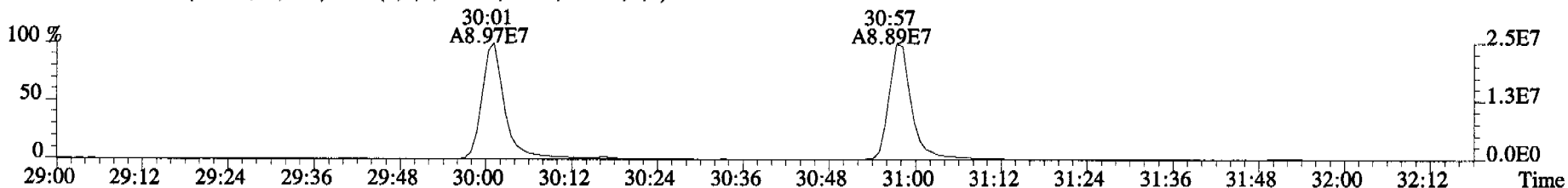
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



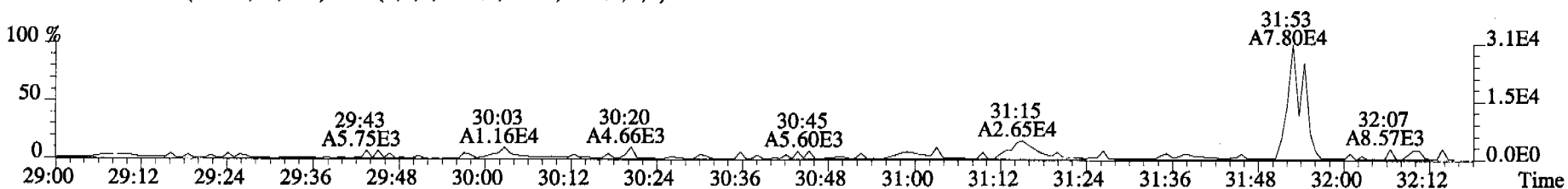
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



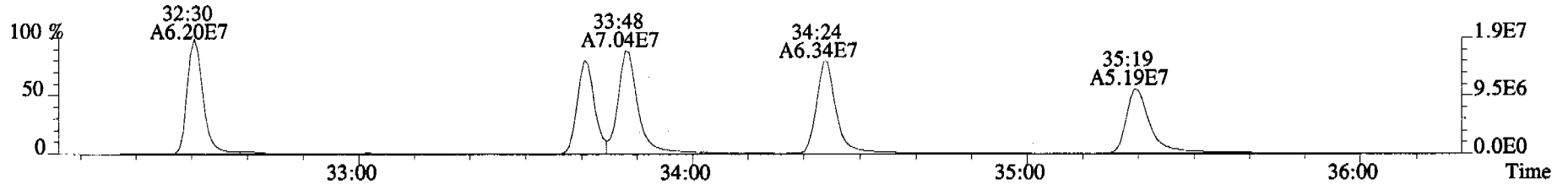
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



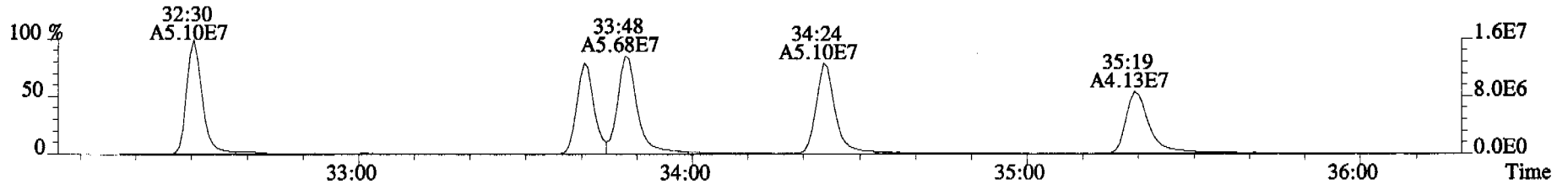
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



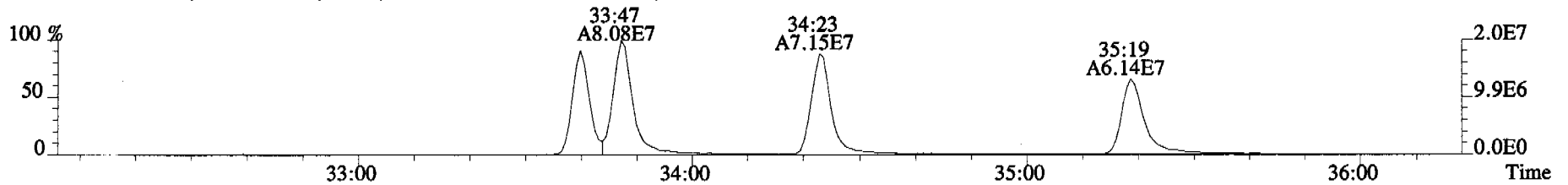
File:060322C1 #1-378 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



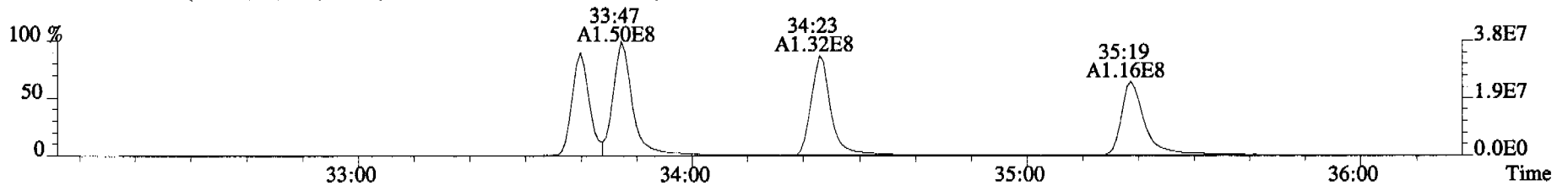
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



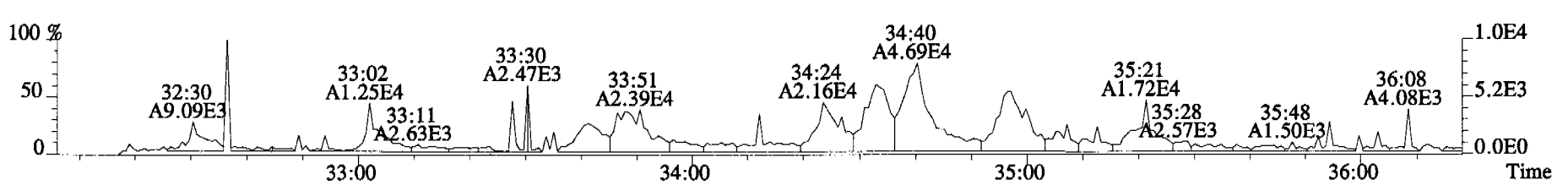
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



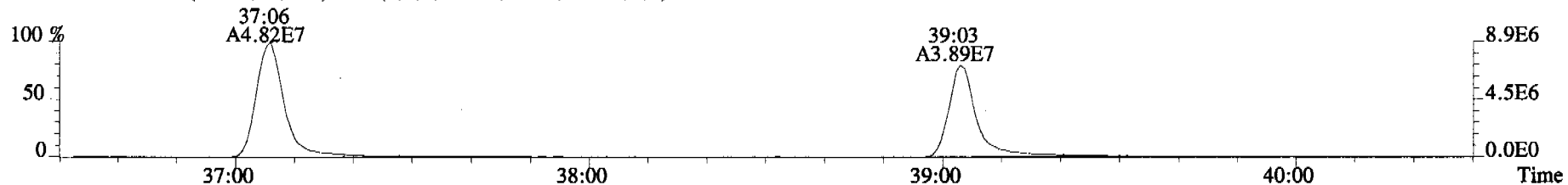
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



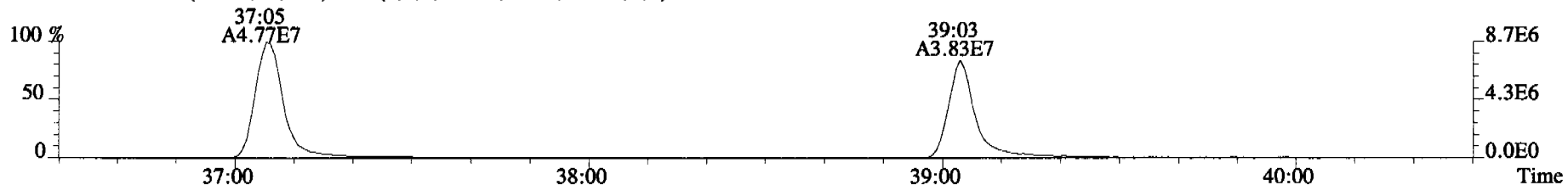
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



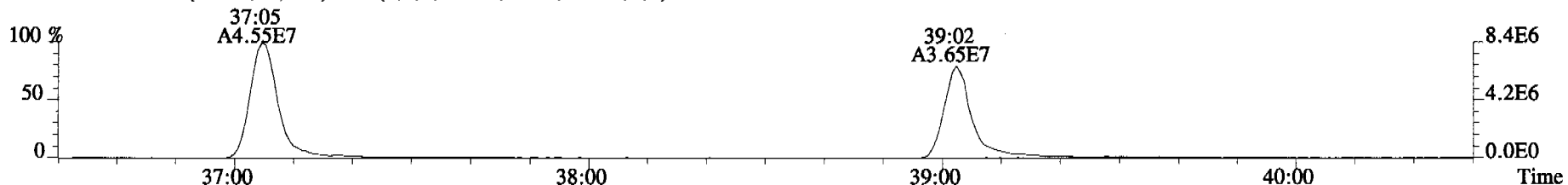
File:060322C1 #1-399 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



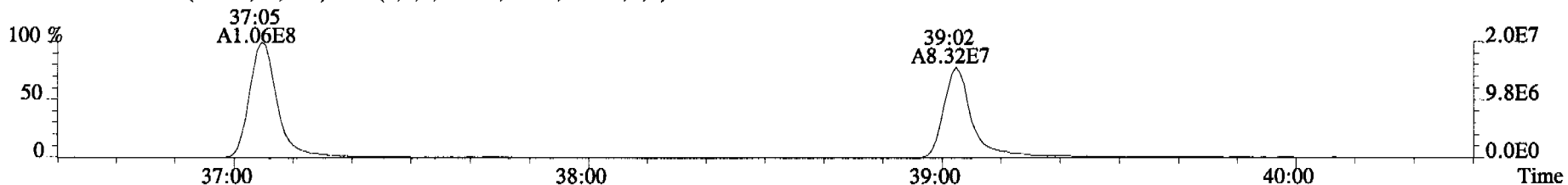
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



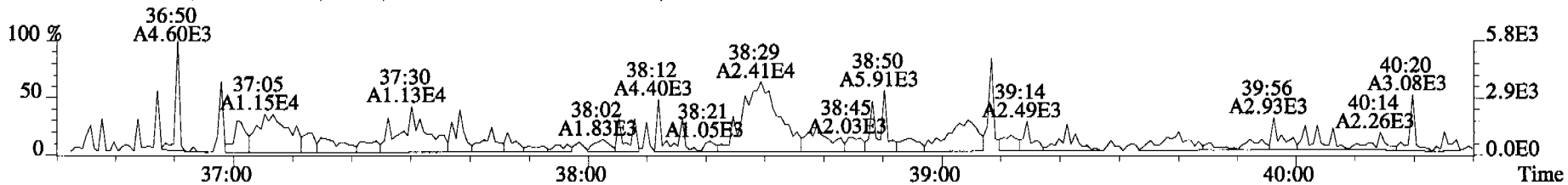
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



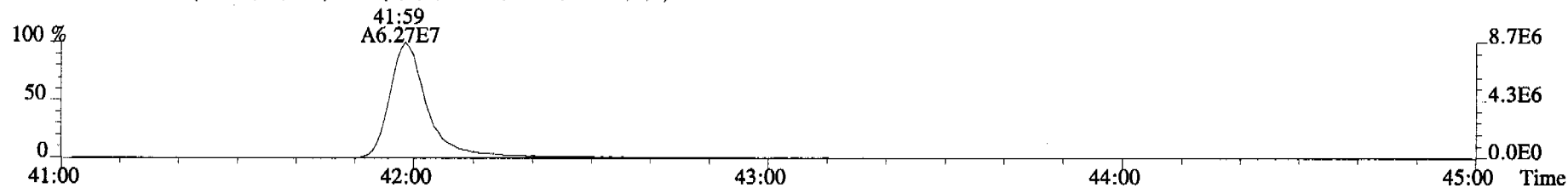
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



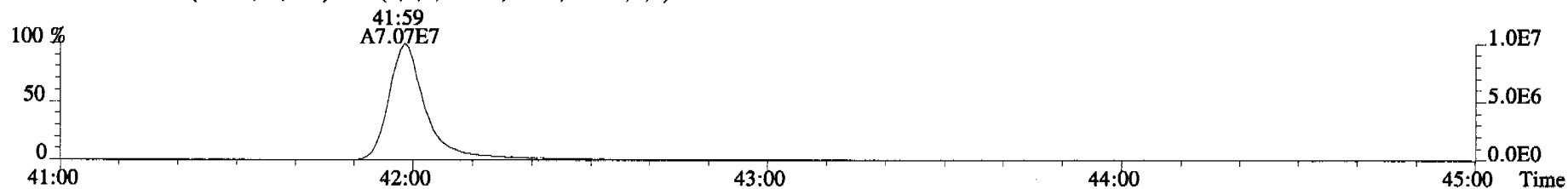
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



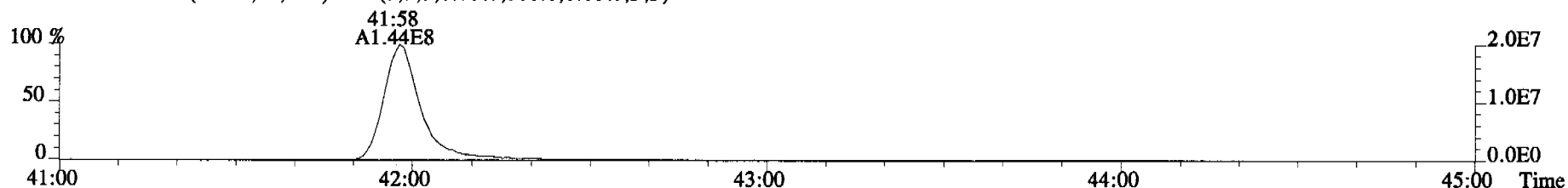
File:060322C1 #1-345 Acq:22-MAR-2006 09:32:59 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#1 File Text:Alta Analytical Laboratory Text:ST060322C1-1 1613 CS3 060110H Exp:OCDD\_DB5  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



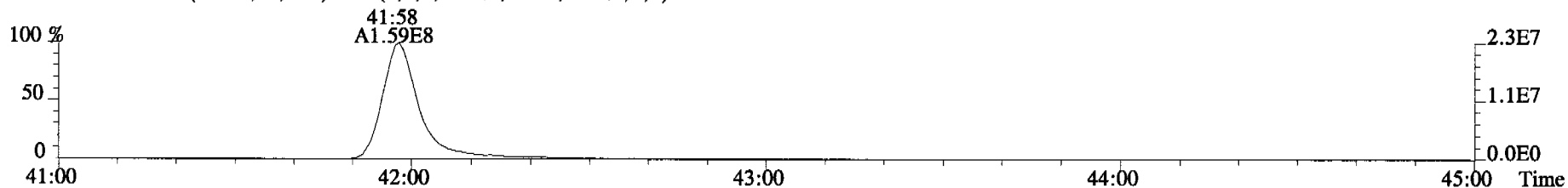
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



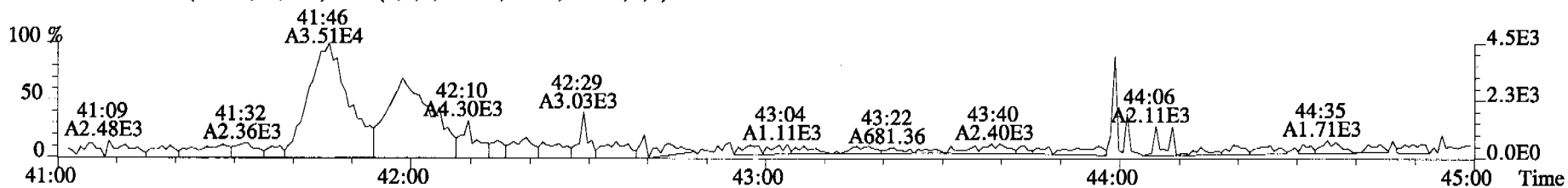
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



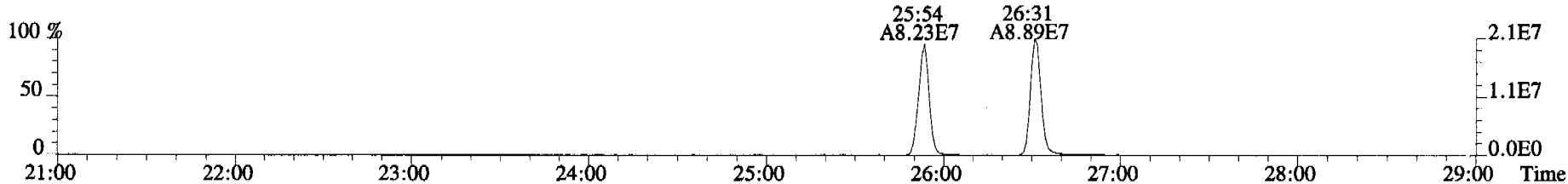
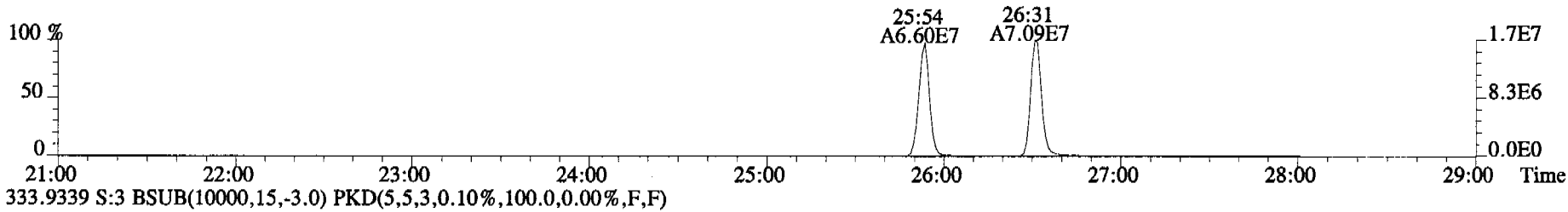
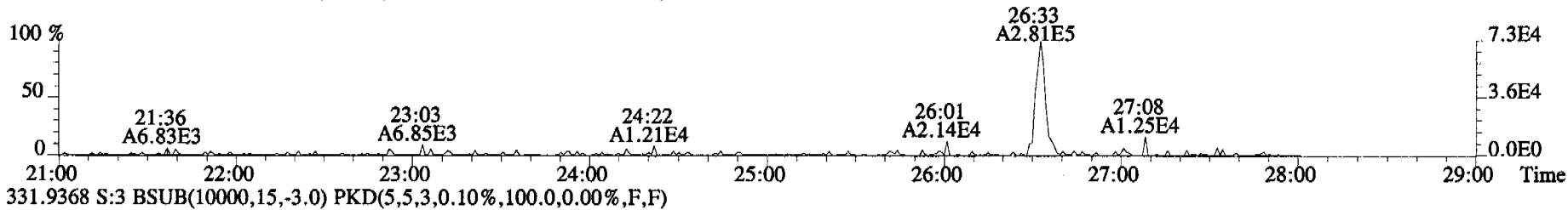
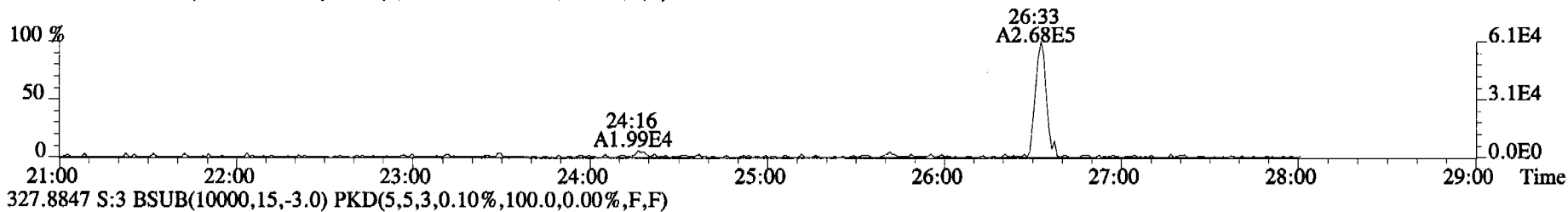
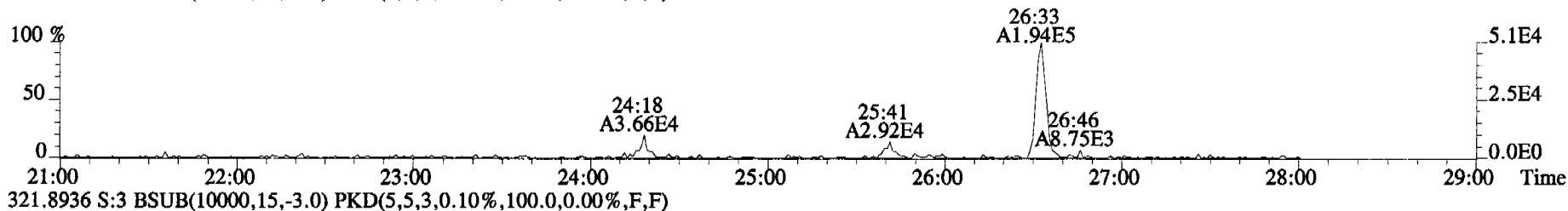
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



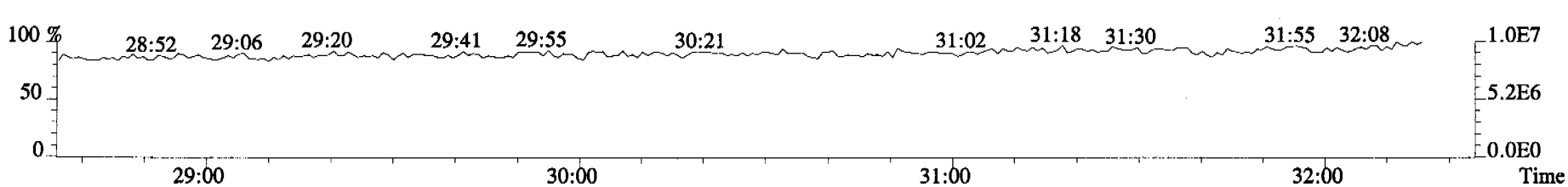
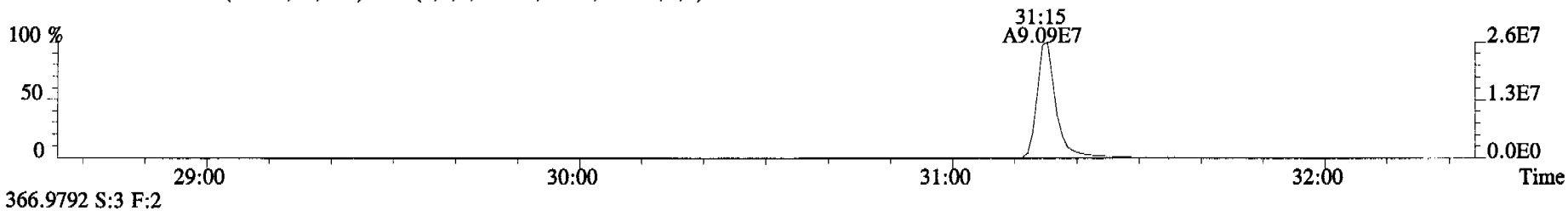
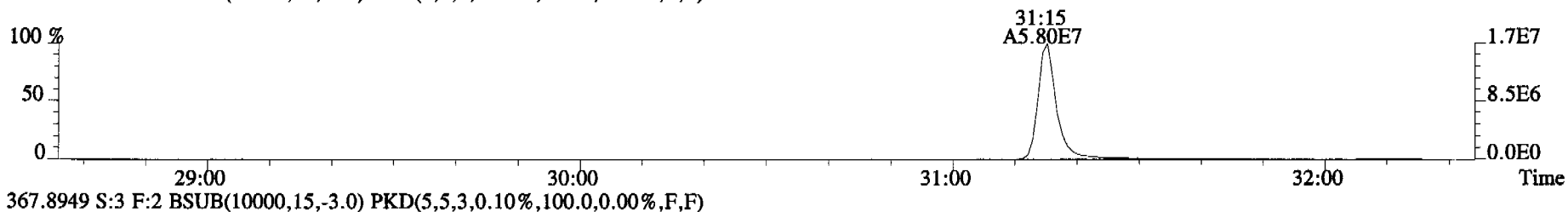
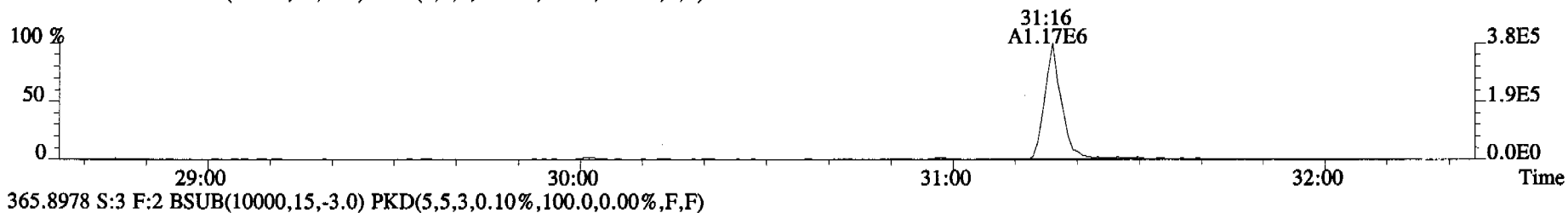
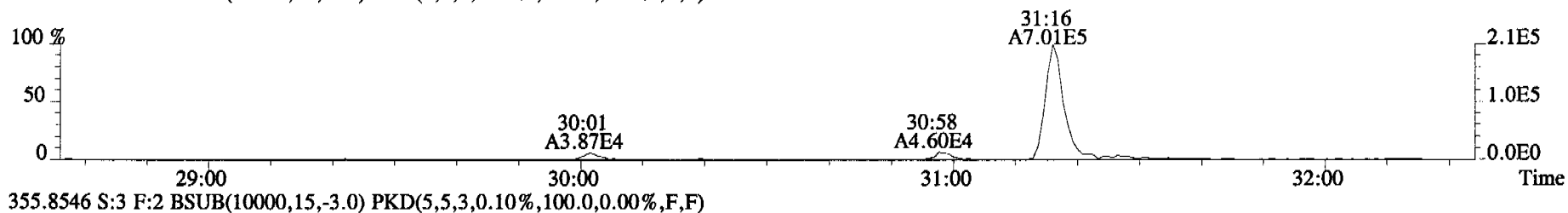
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



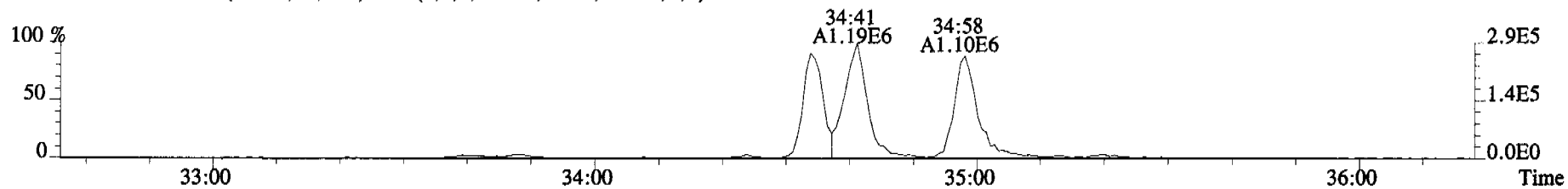
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



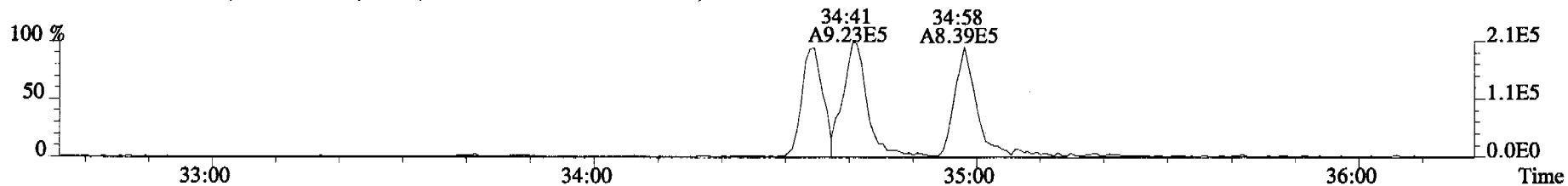
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



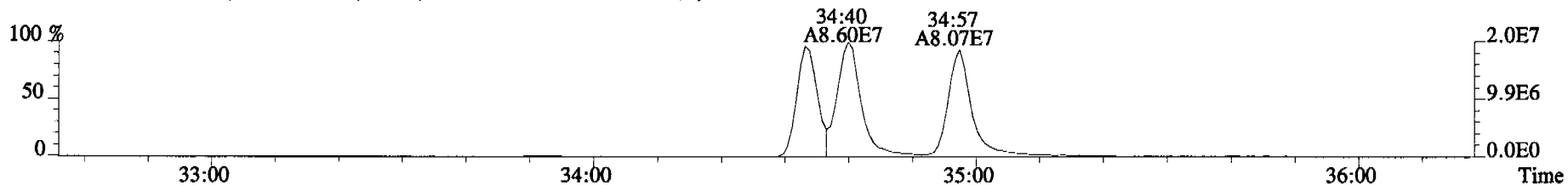
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



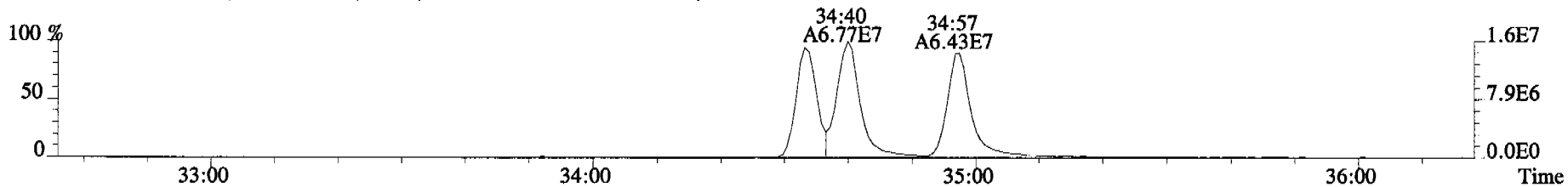
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



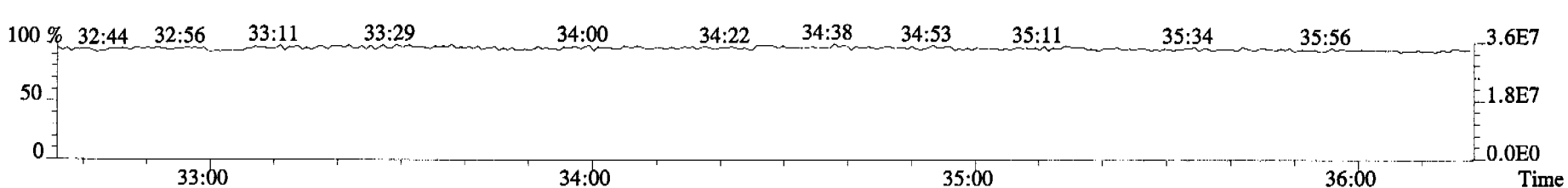
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

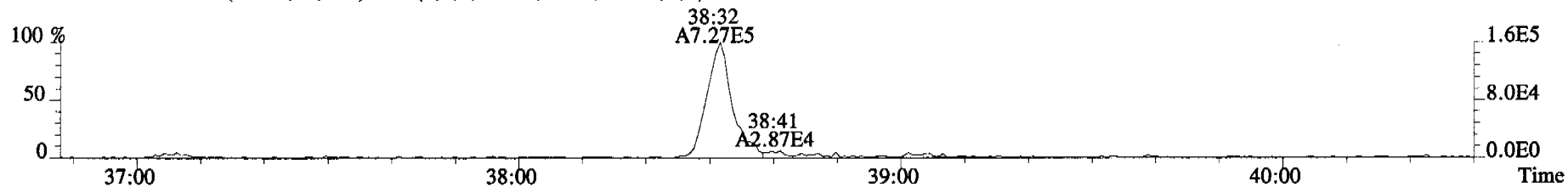


380.9760 S:3 F:3

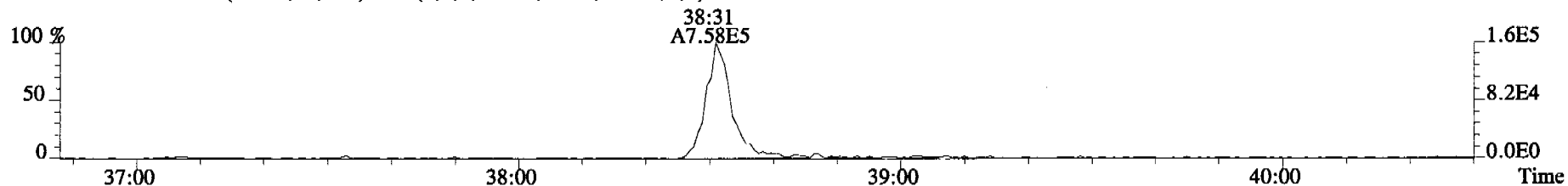




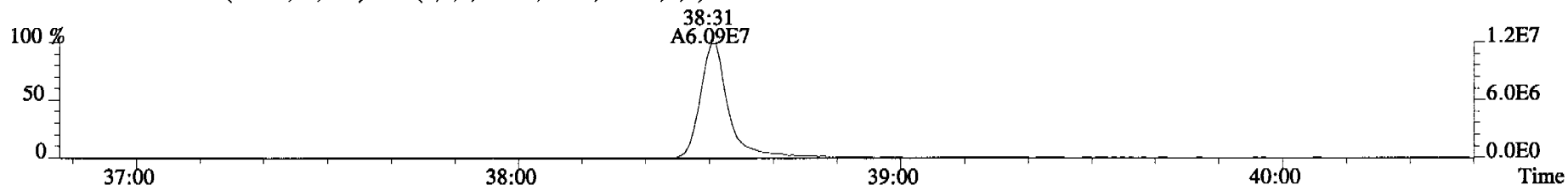
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



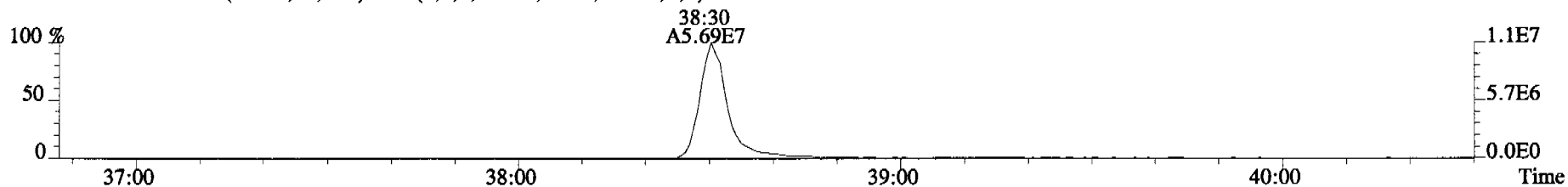
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



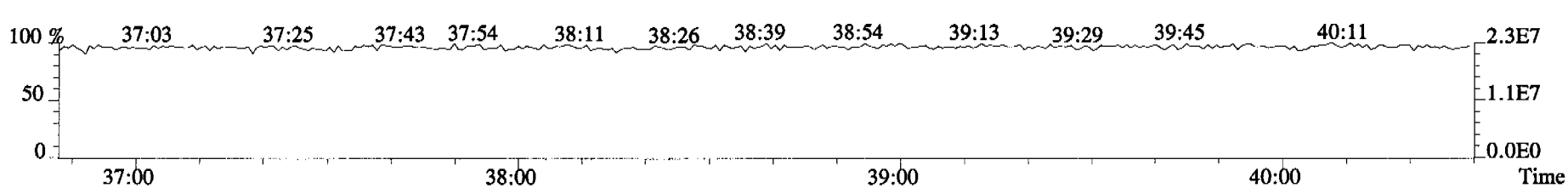
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



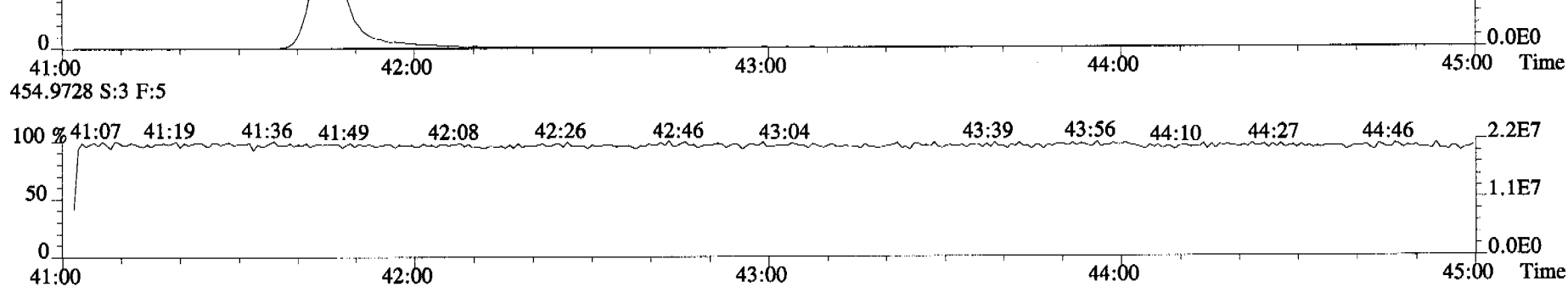
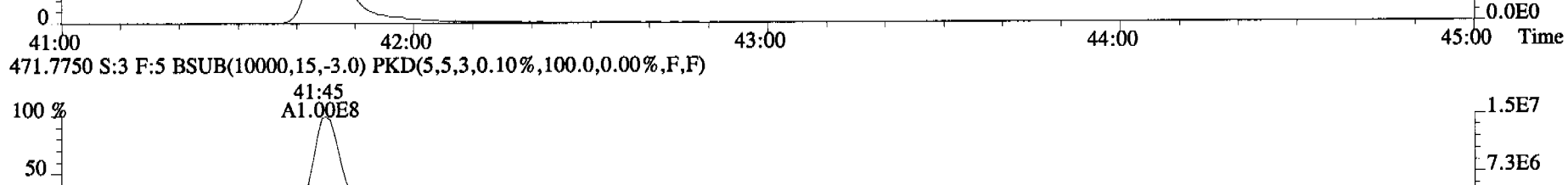
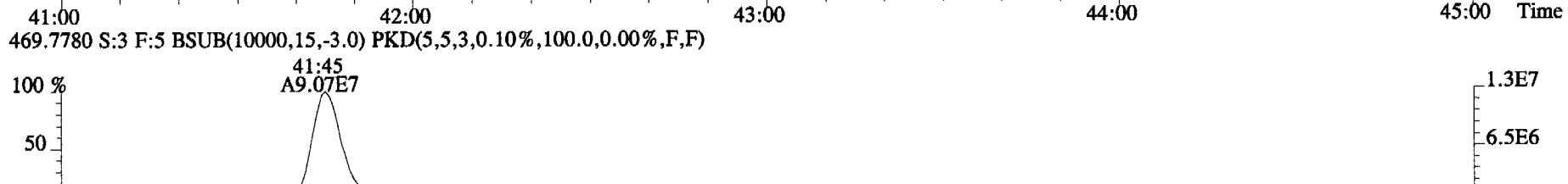
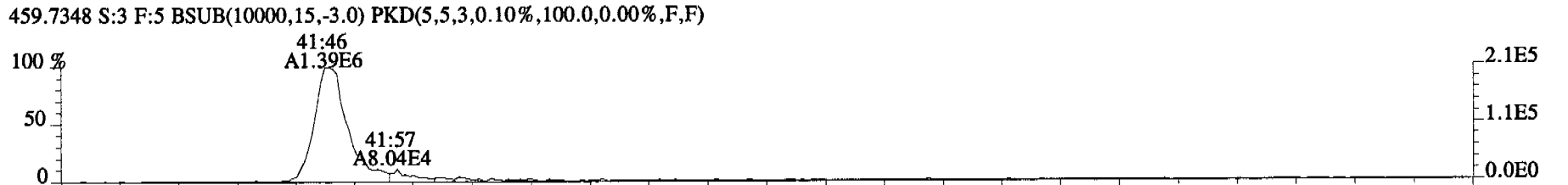
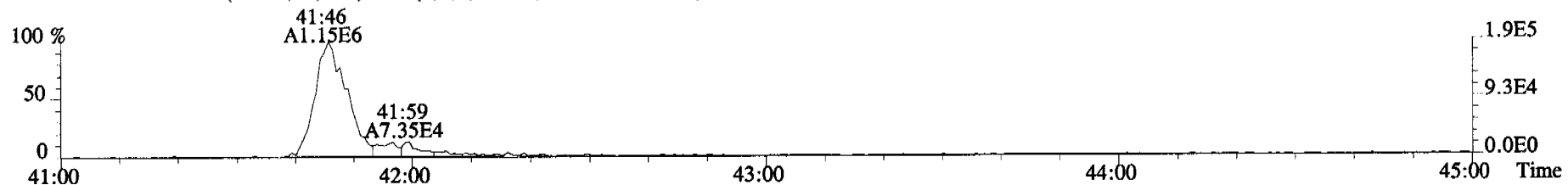
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



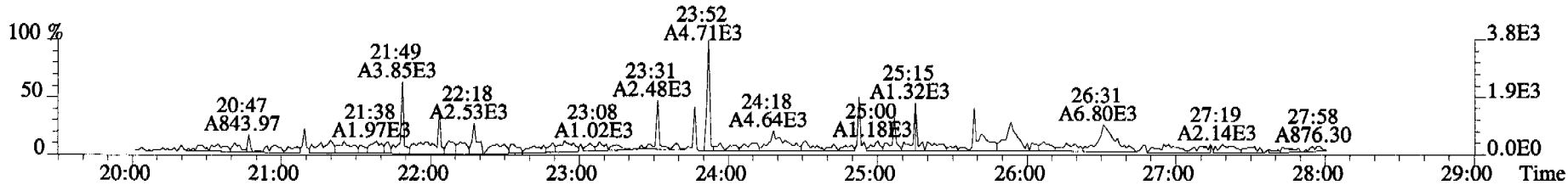
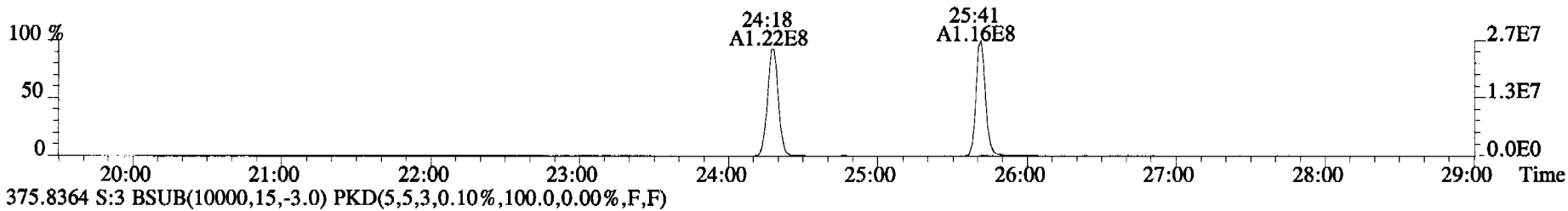
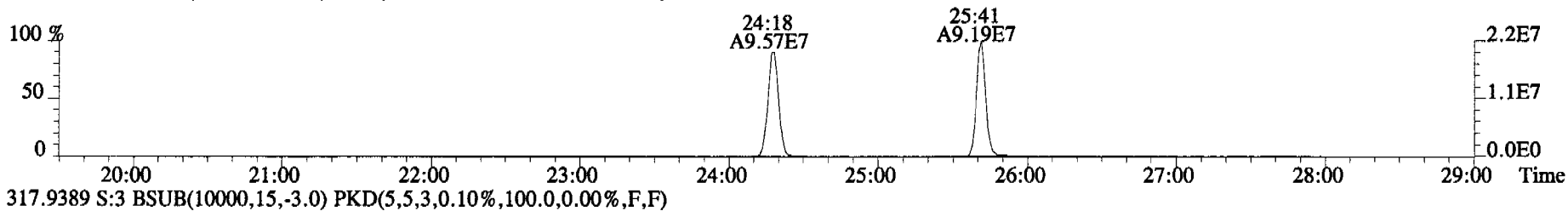
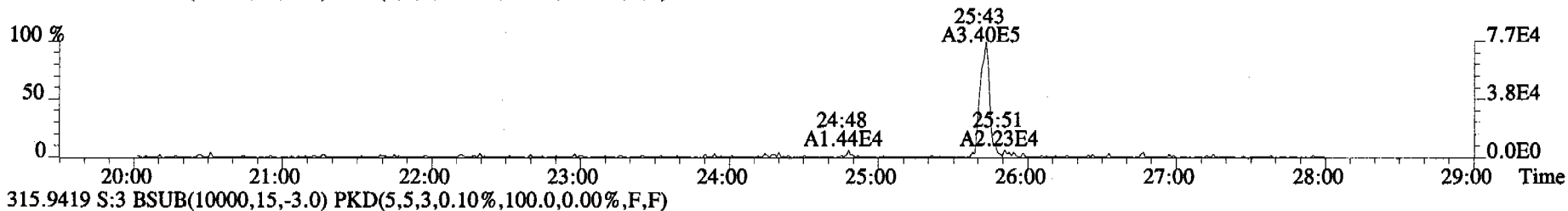
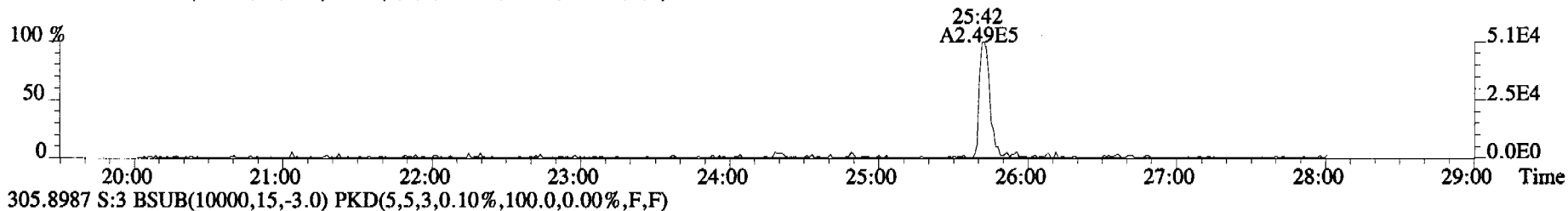
430.9728 S:3 F:4



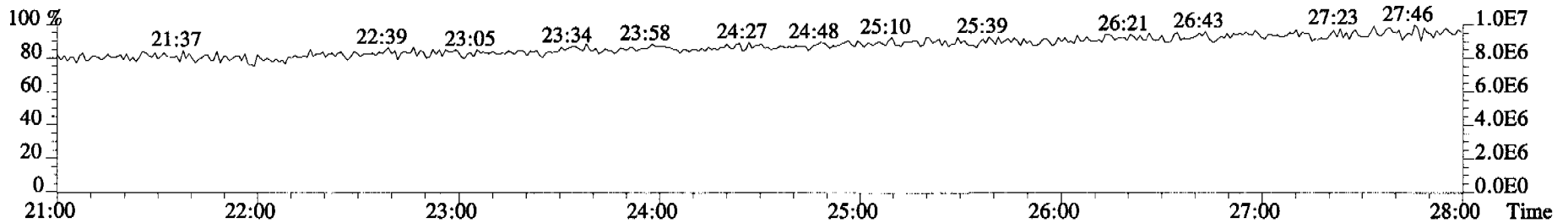
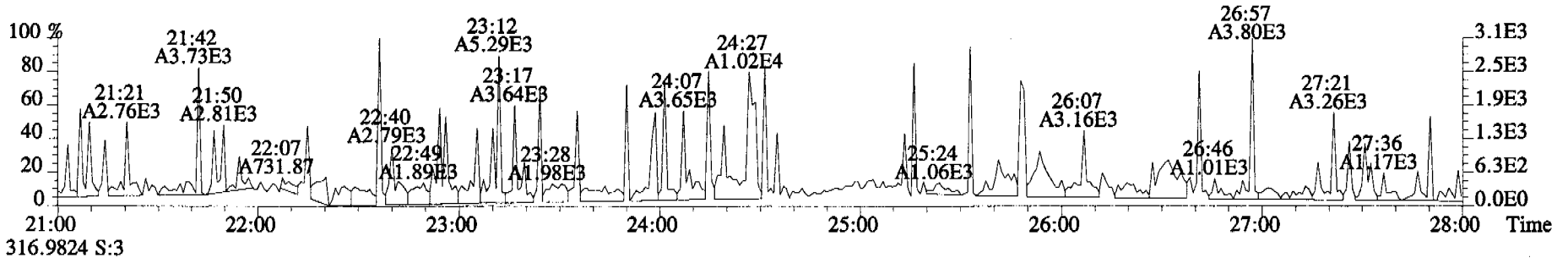
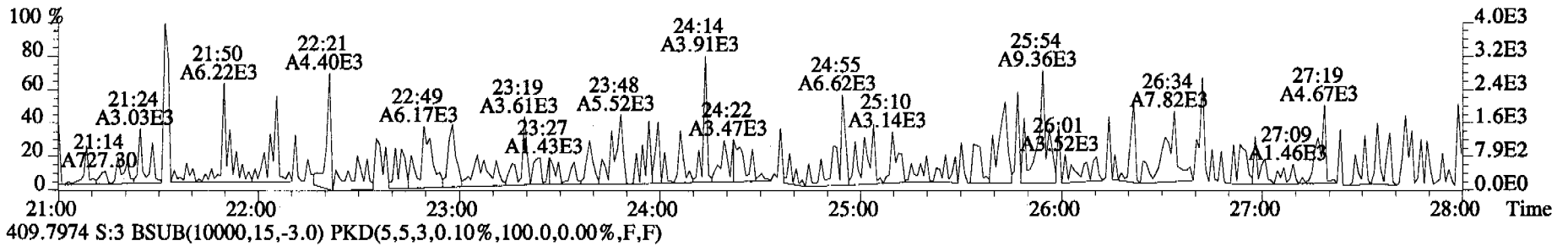
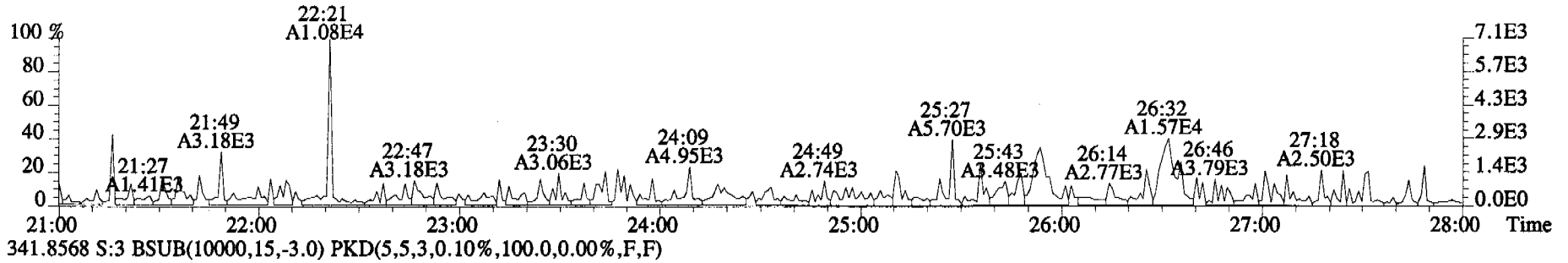
File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



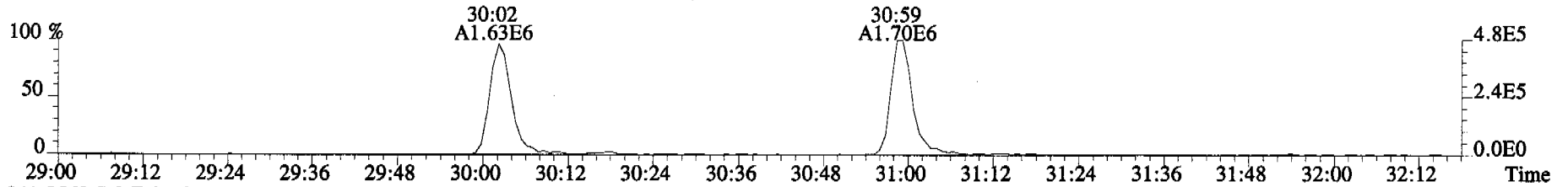
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



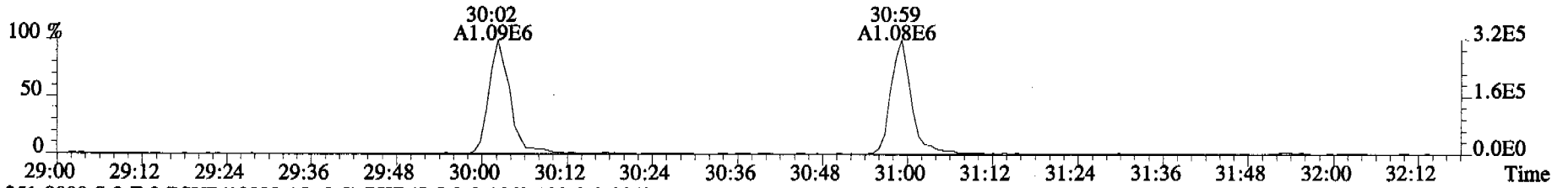
File:060322C1 #1-514 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



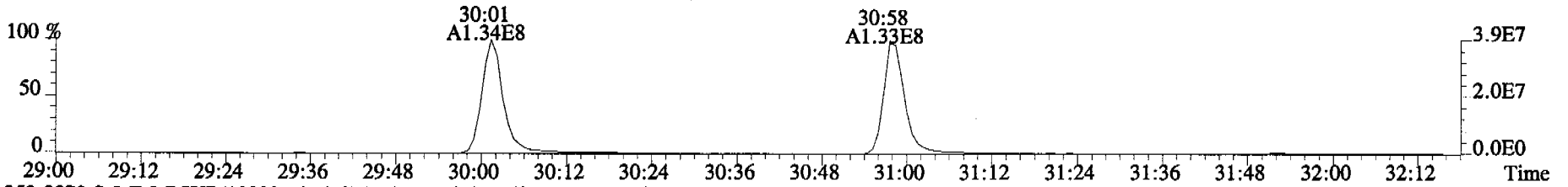
File:060322C1 #1-316 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



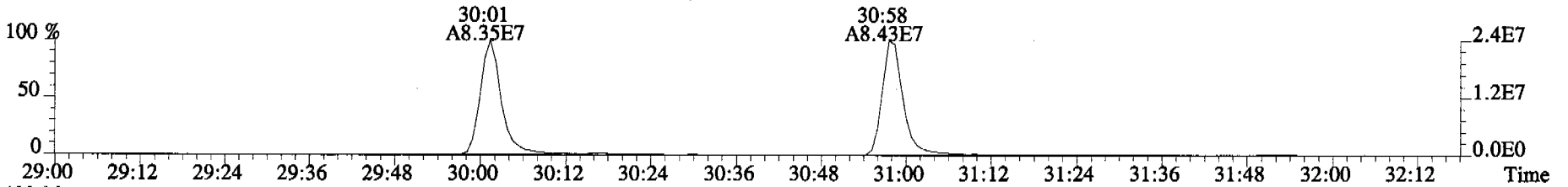
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



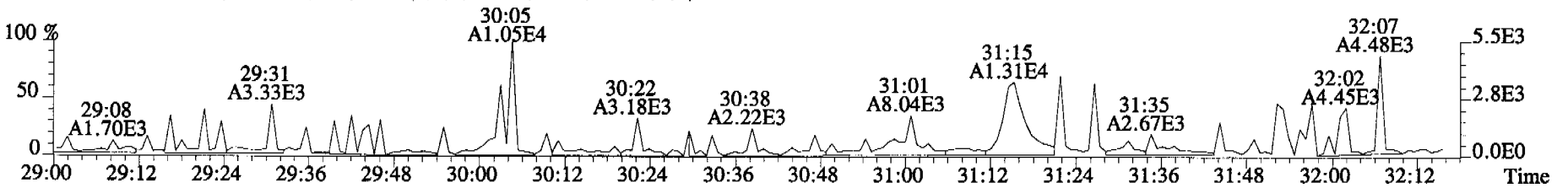
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



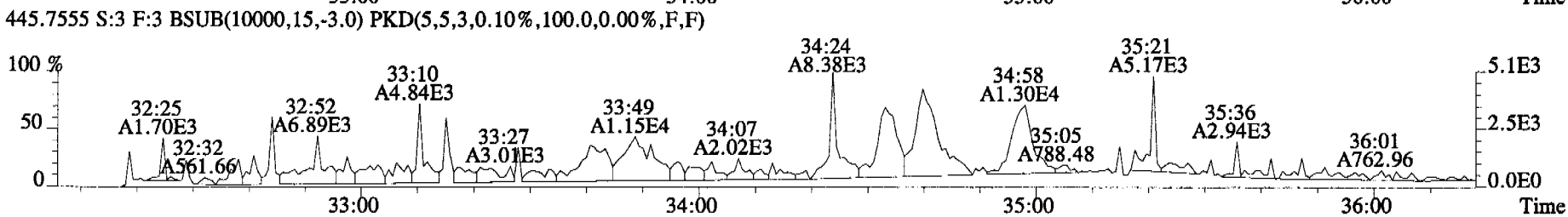
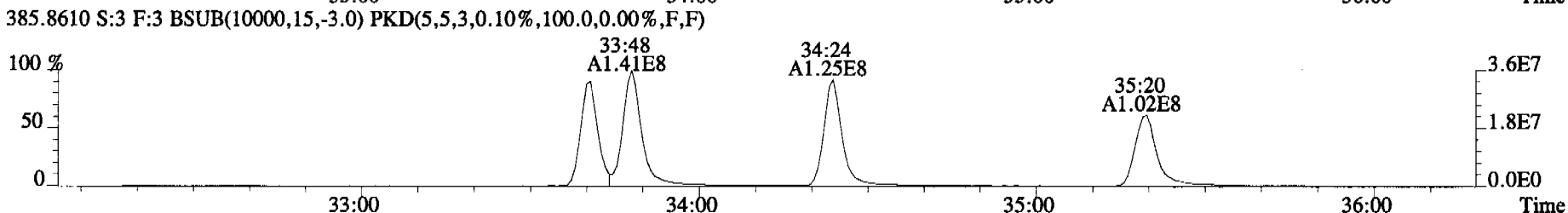
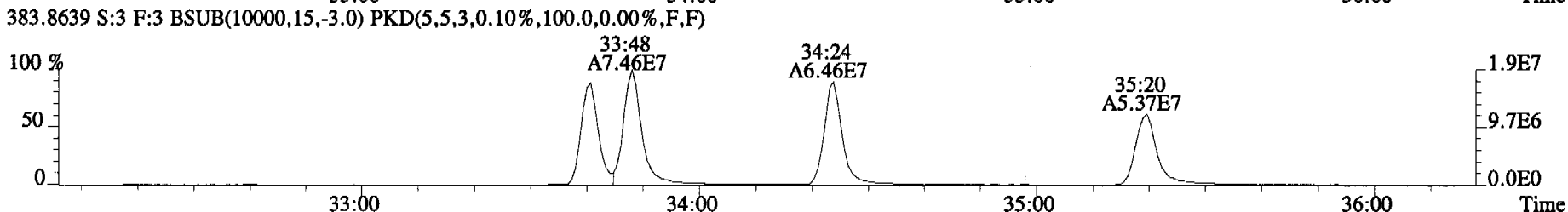
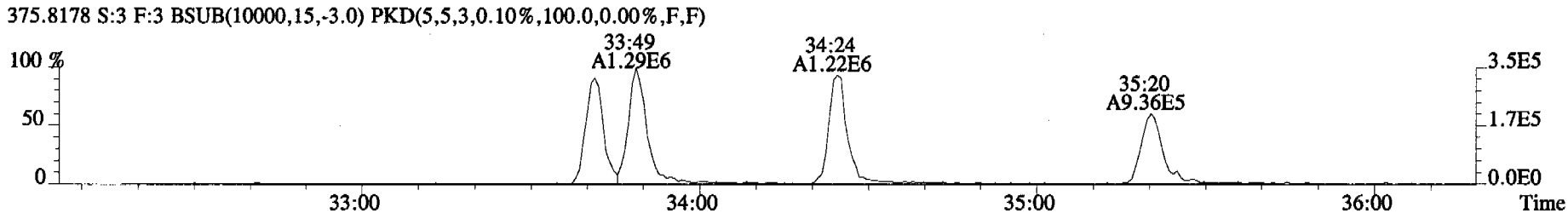
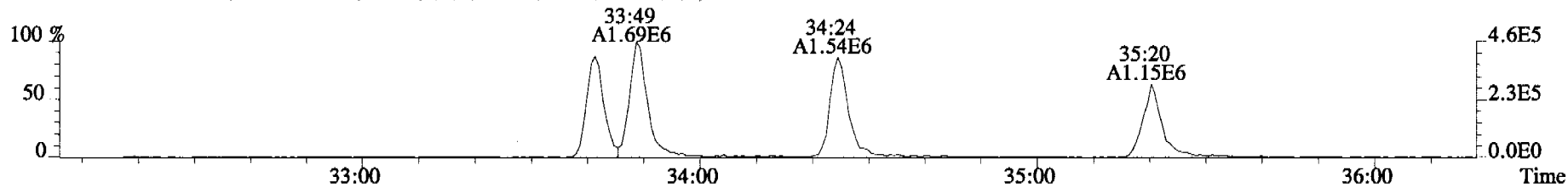
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



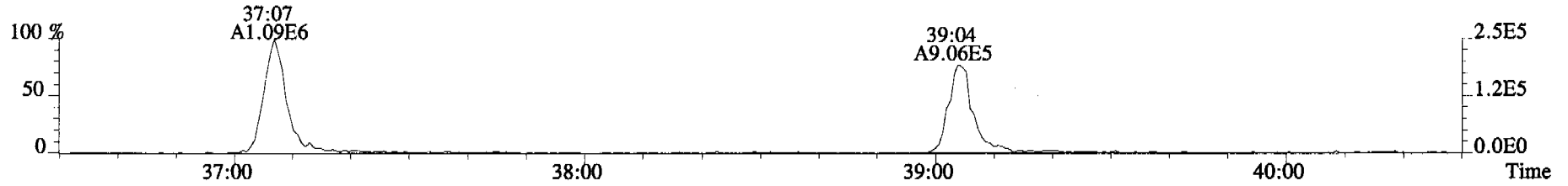
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



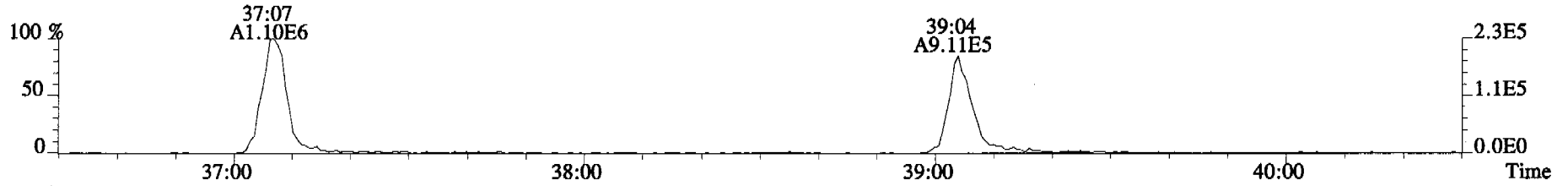
File:060322C1 #1-377 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



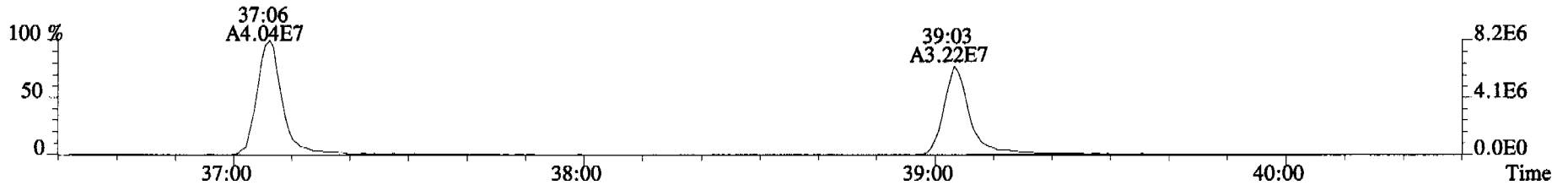
File:060322C1 #1-400 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



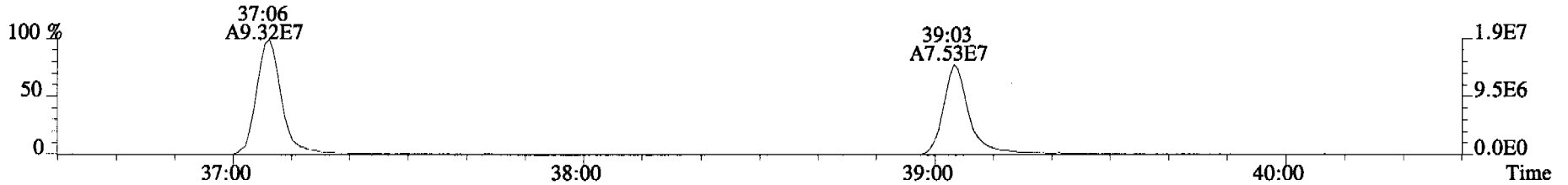
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



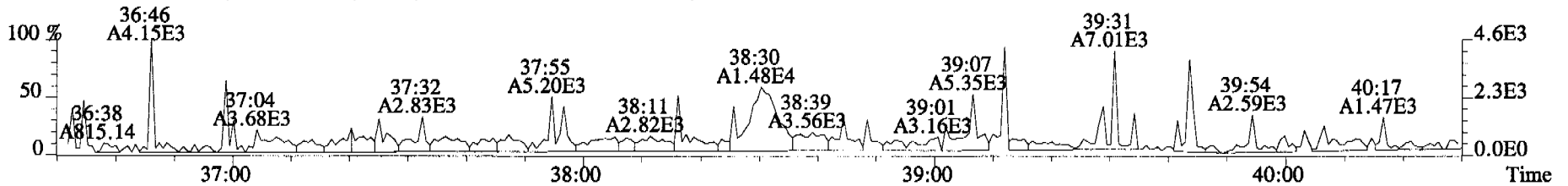
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



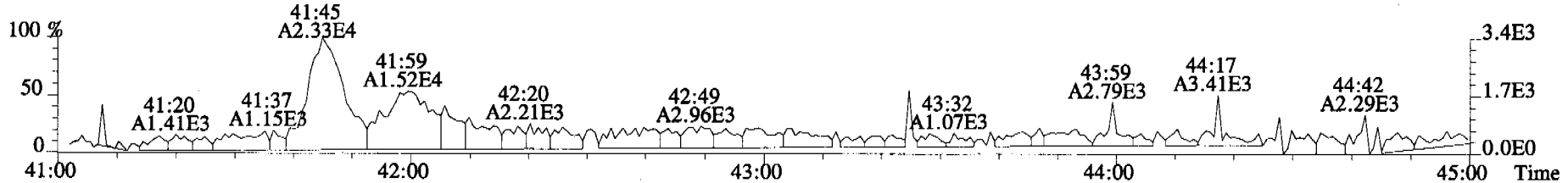
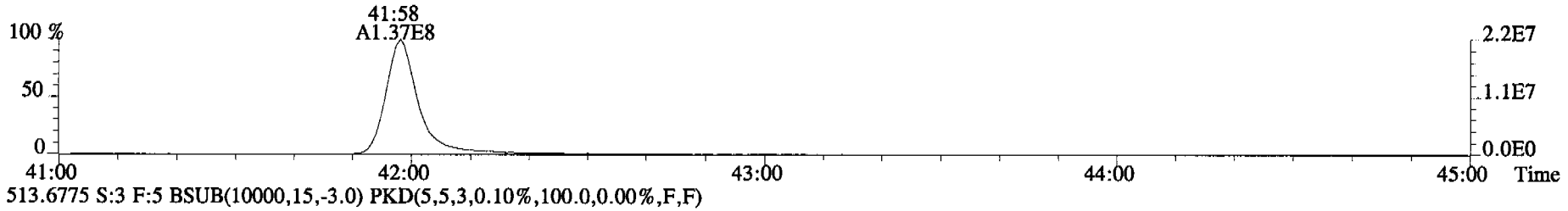
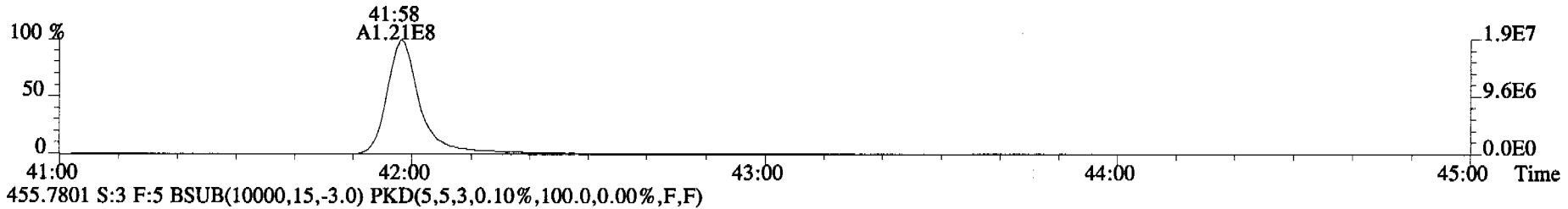
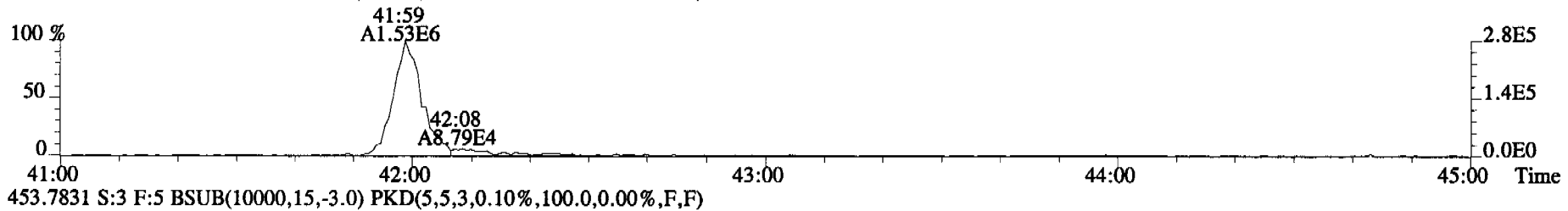
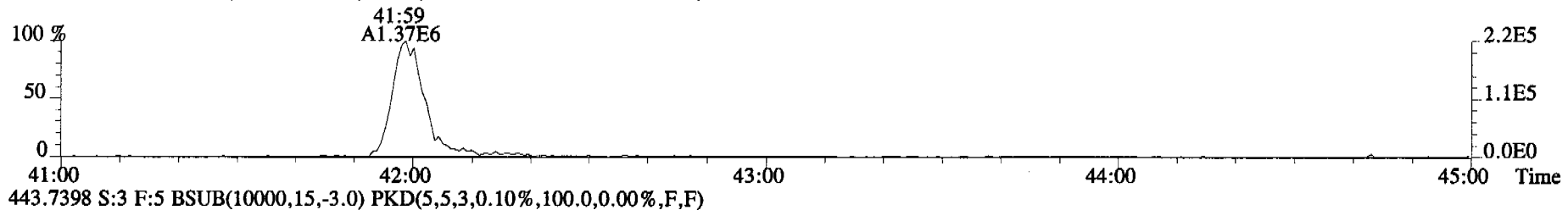
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

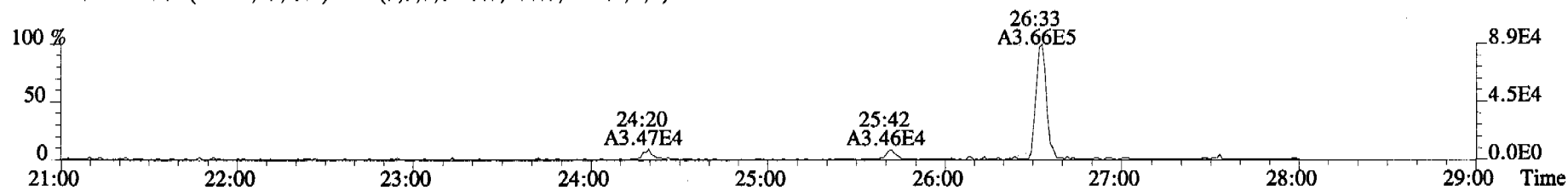


File:060322C1 #1-345 Acq:22-MAR-2006 11:12:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#3 File Text:Alta Analytical Laboratory Text:ST060322C1-2 1613 CS0 060110E Exp:OCDD\_DB5  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

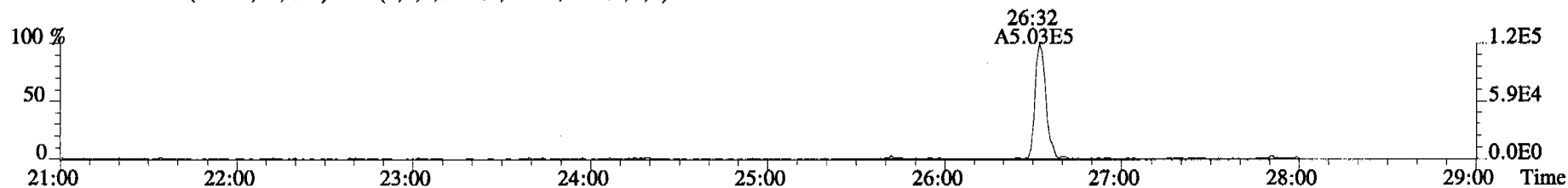




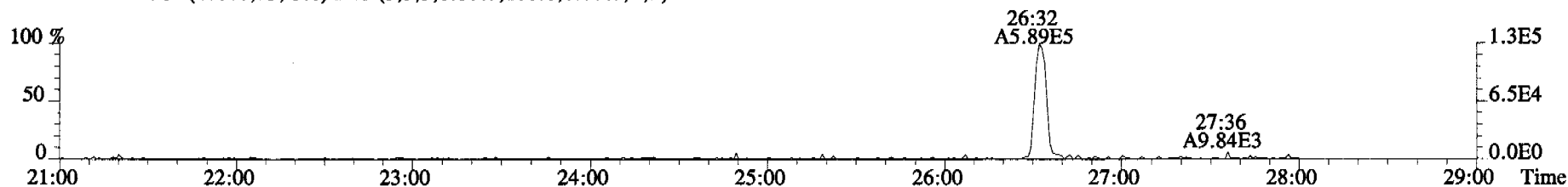
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



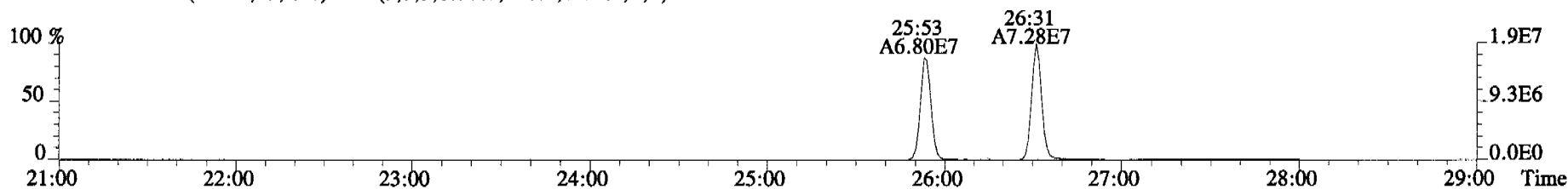
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



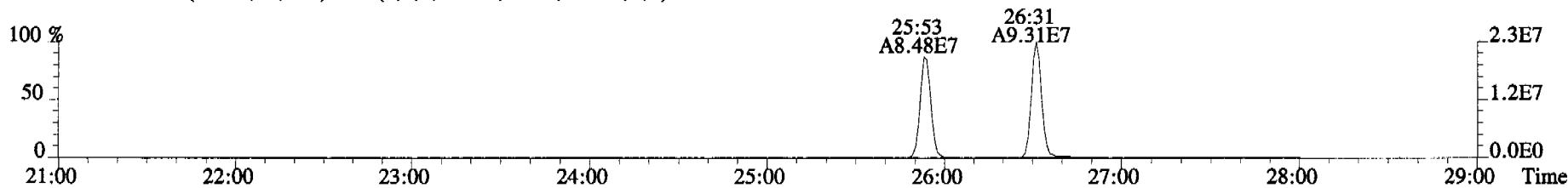
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



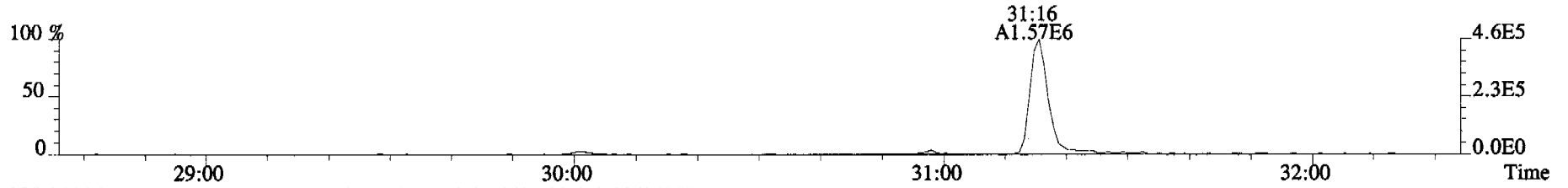
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



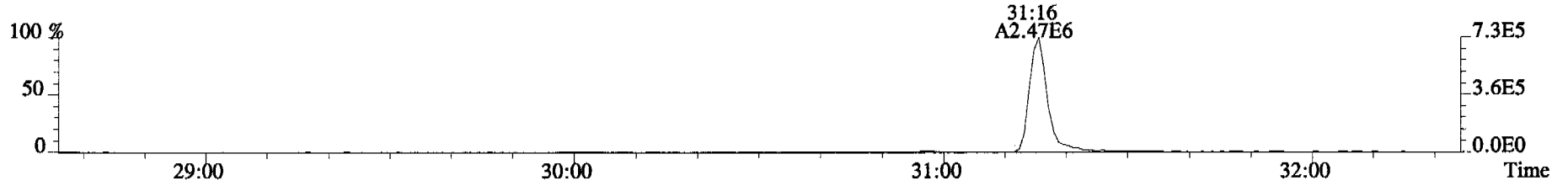
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



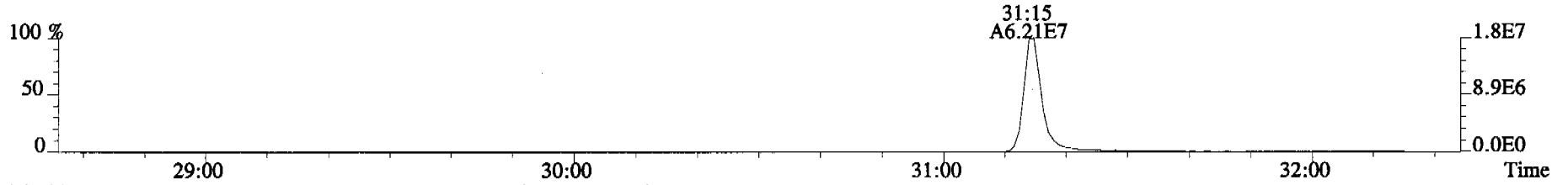
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



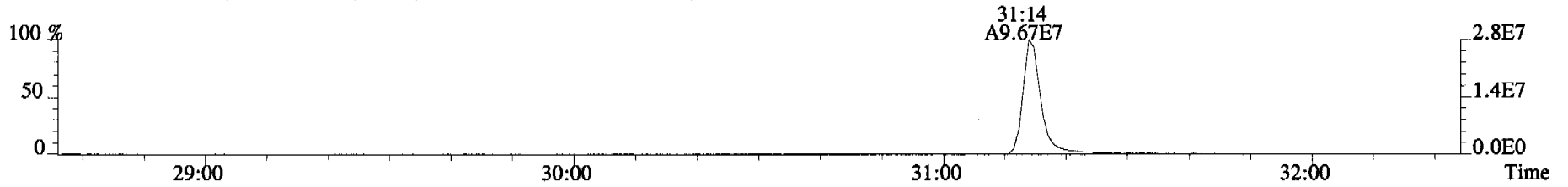
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



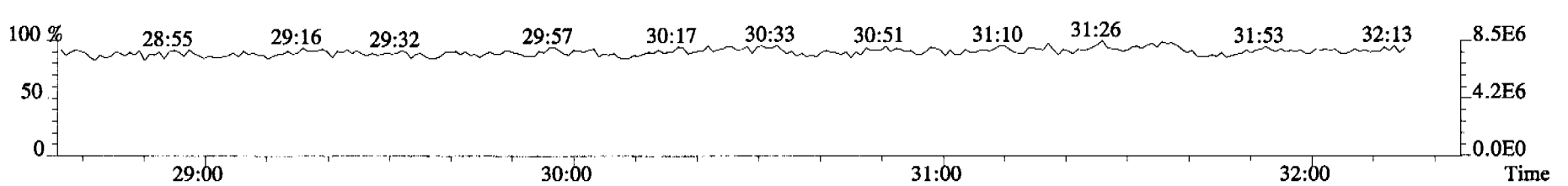
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



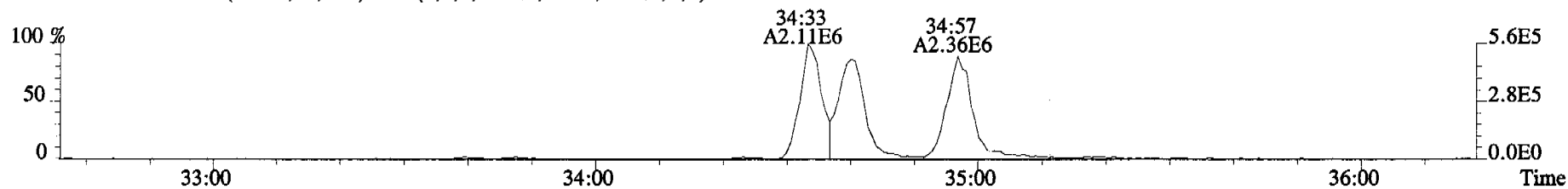
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



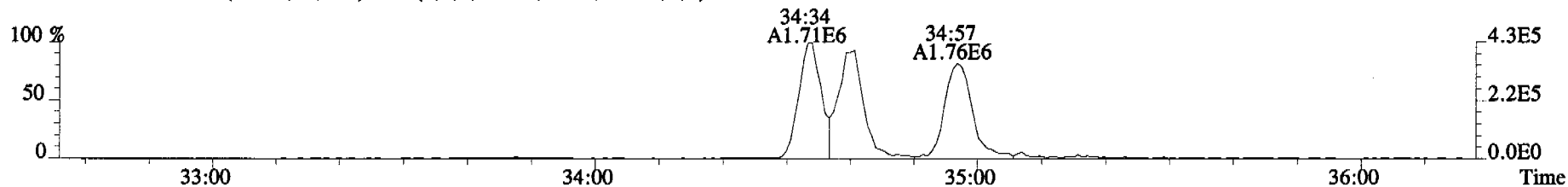
366.9792 S:4 F:2



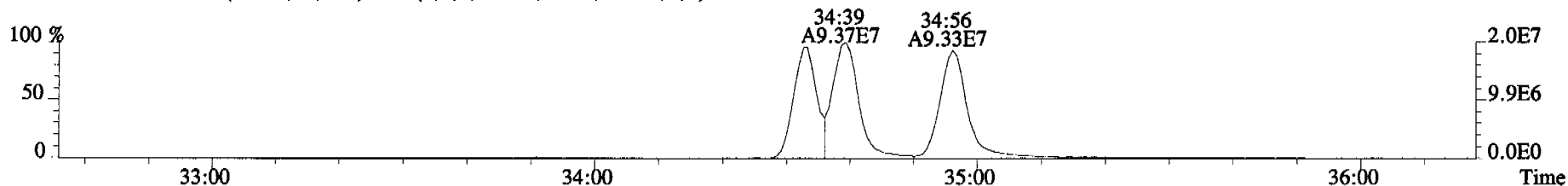
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



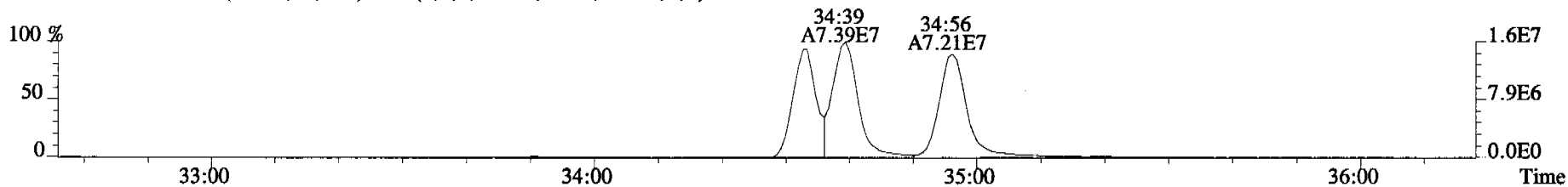
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



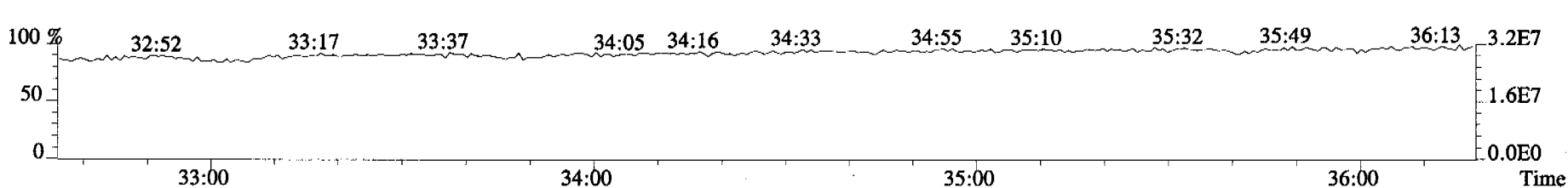
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



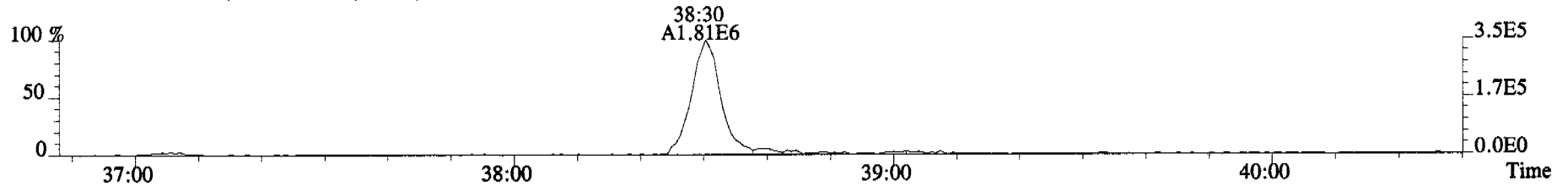
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



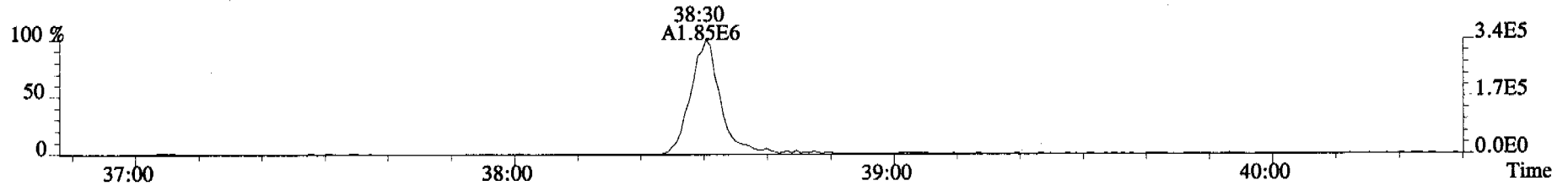
380.9760 S:4 F:3



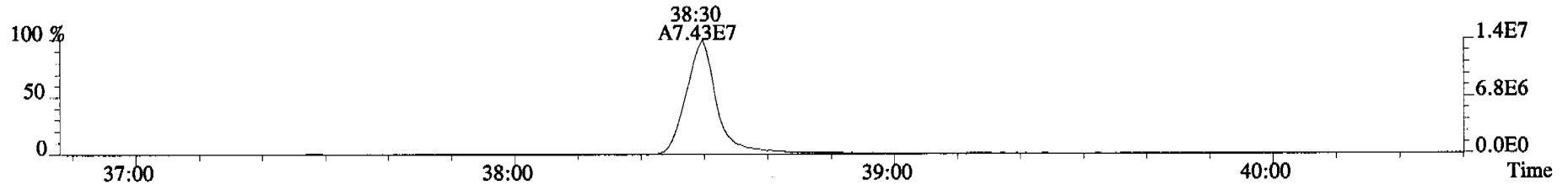
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



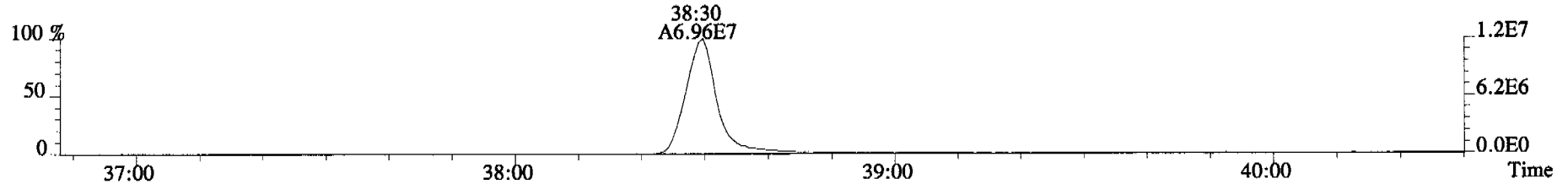
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



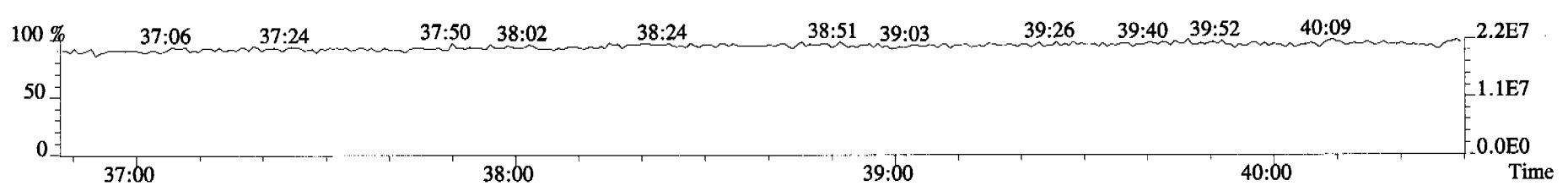
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



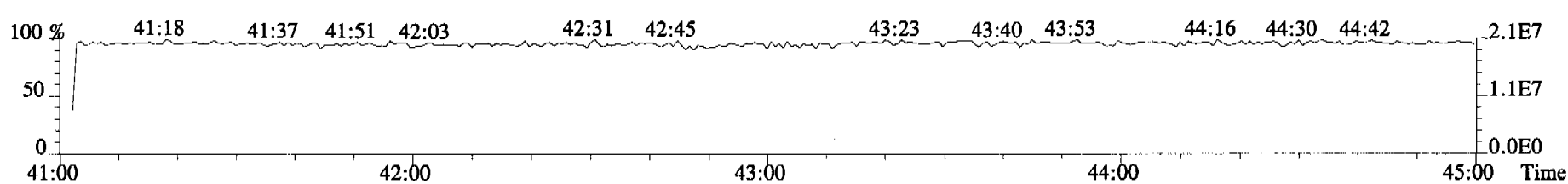
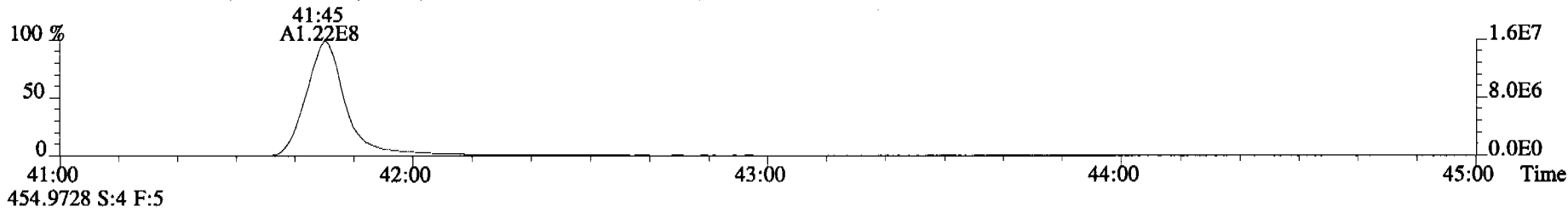
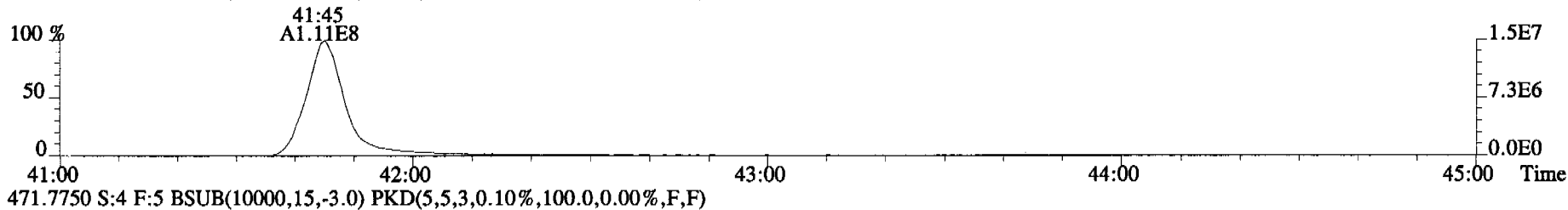
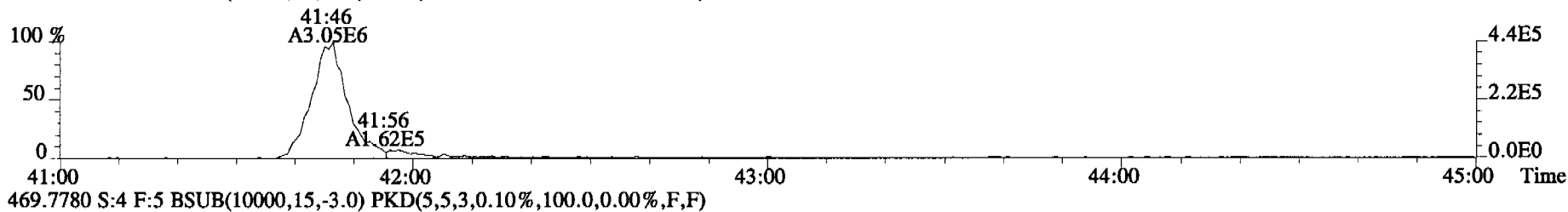
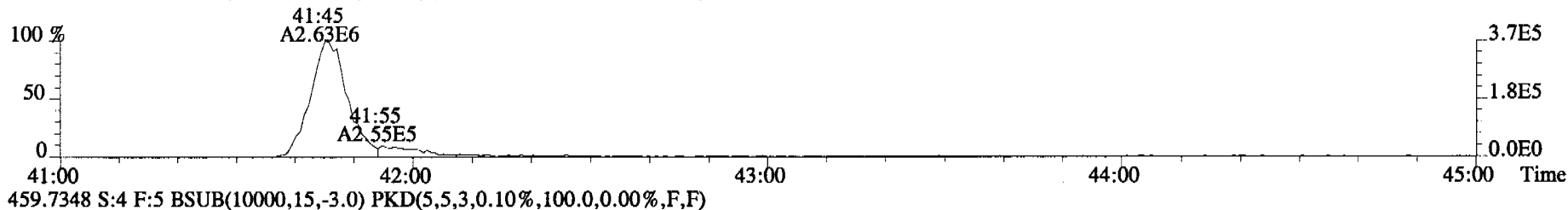
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



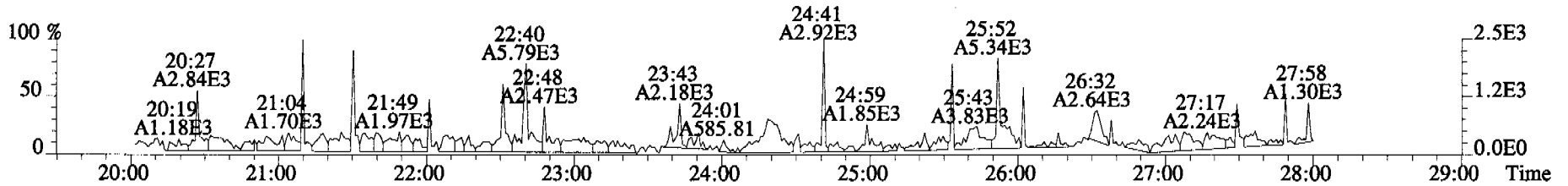
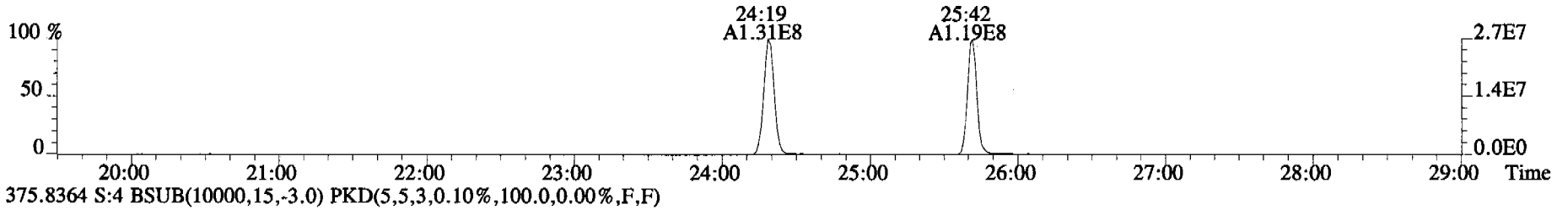
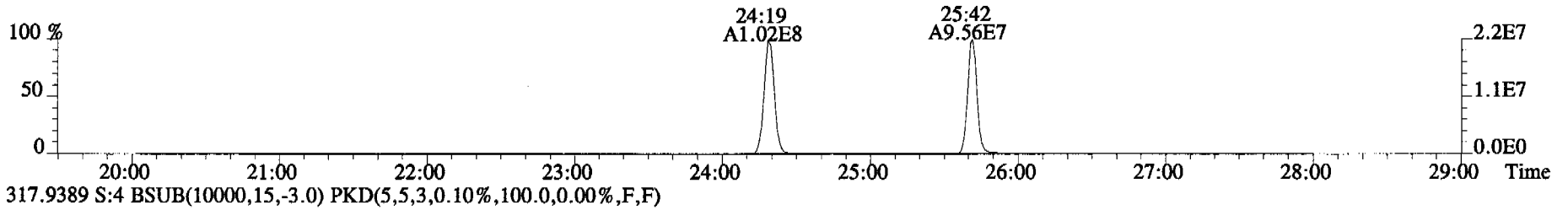
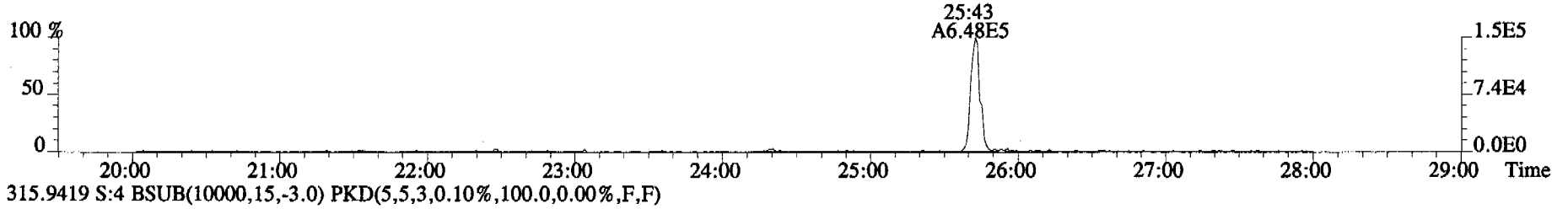
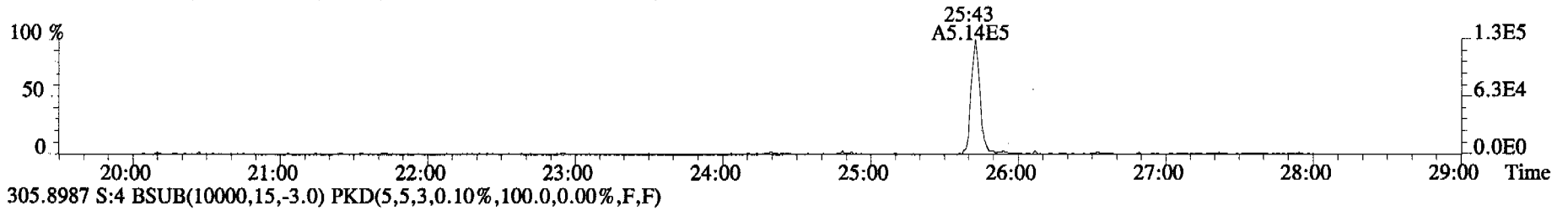
430.9728 S:4 F:4



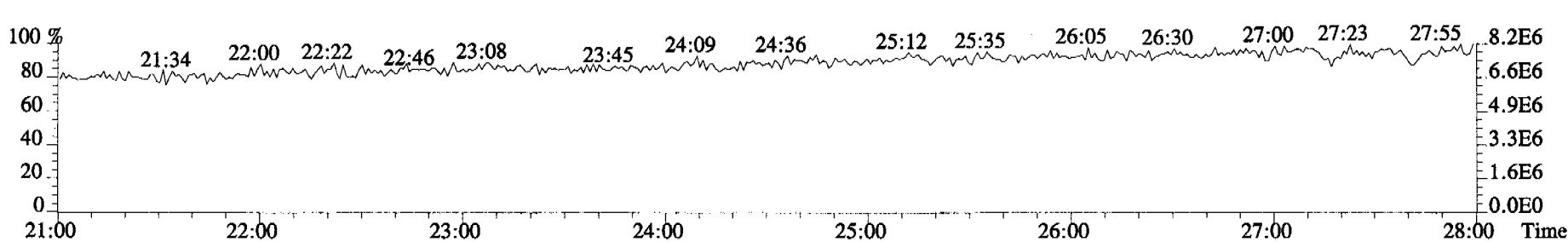
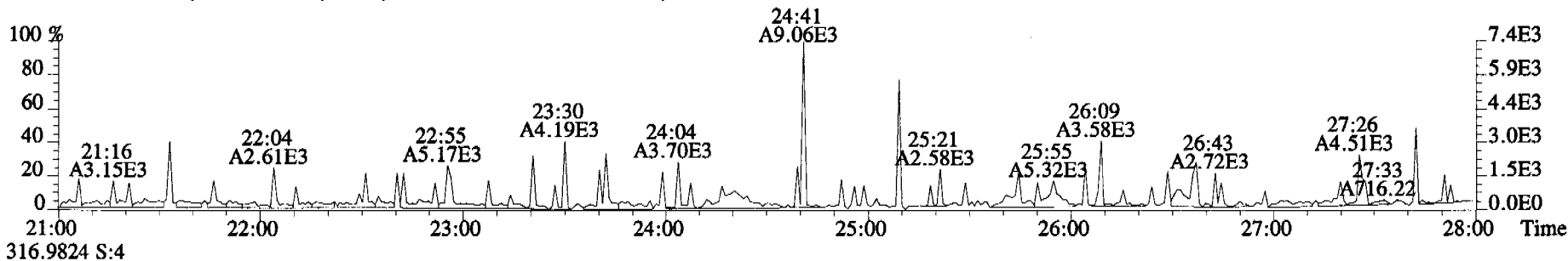
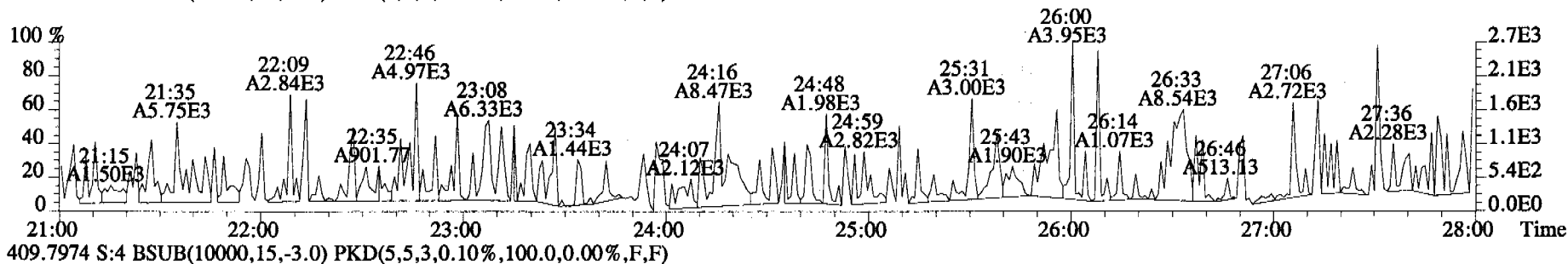
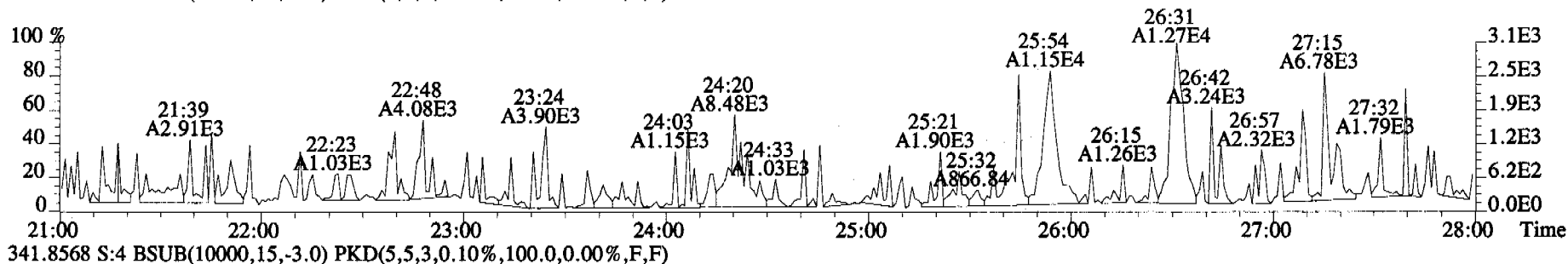
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



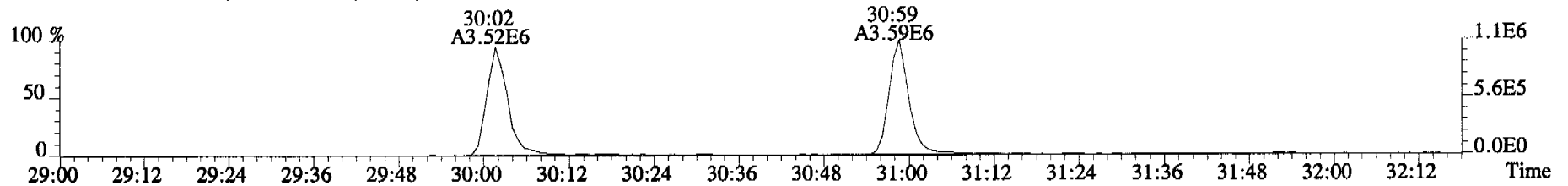
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



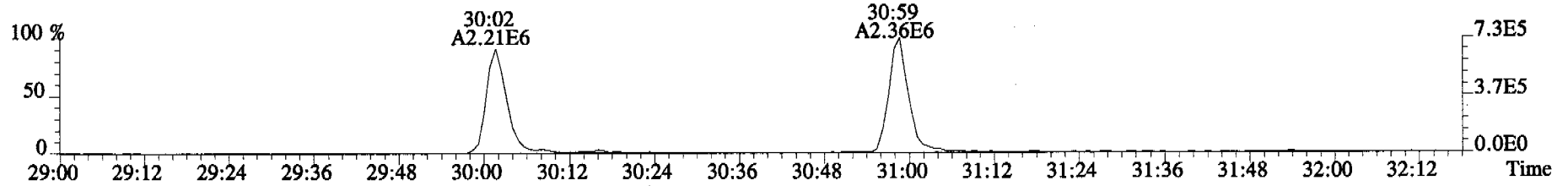
File:060322C1 #1-513 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



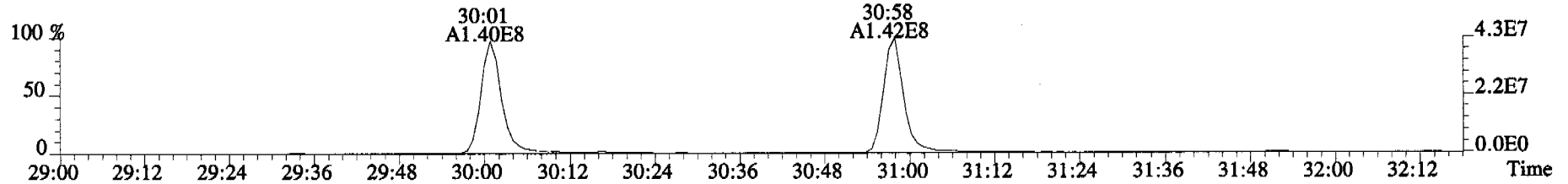
File:060322C1 #1-316 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



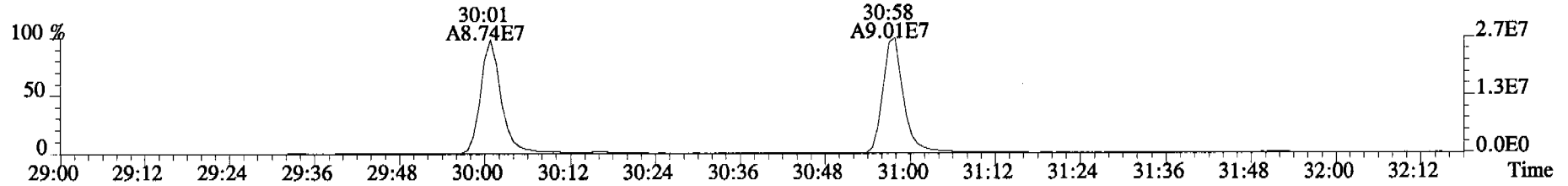
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



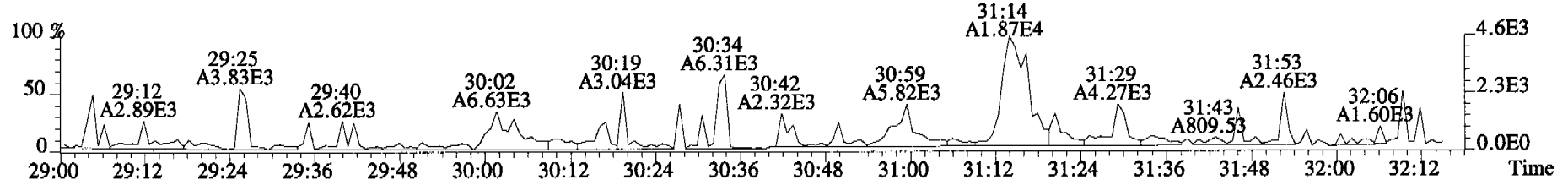
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

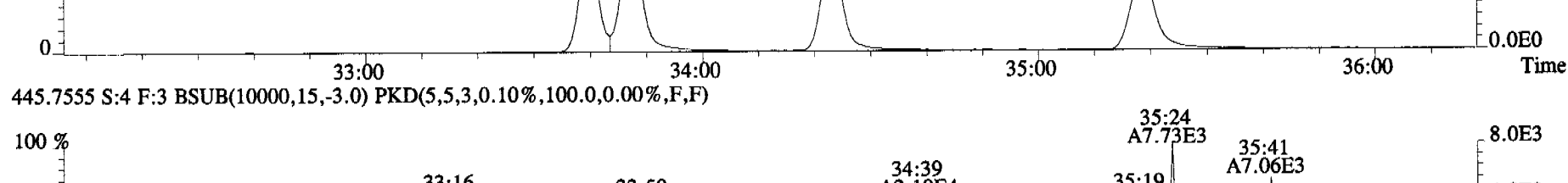
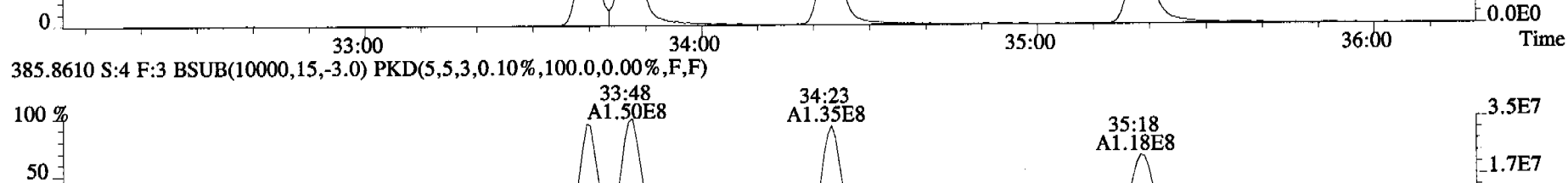
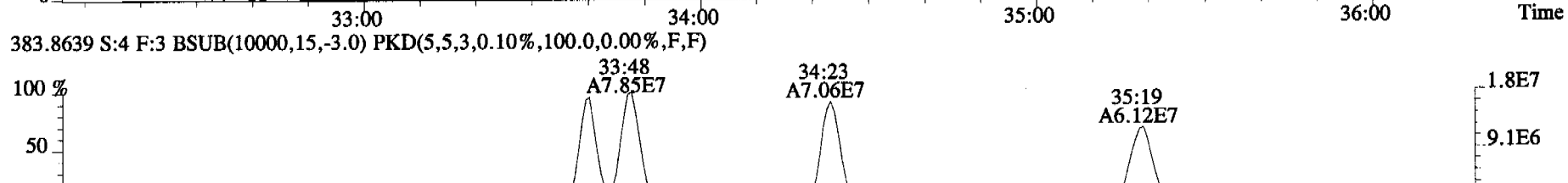
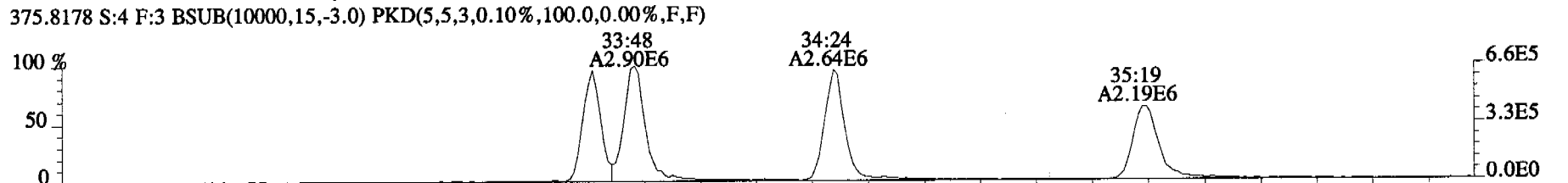
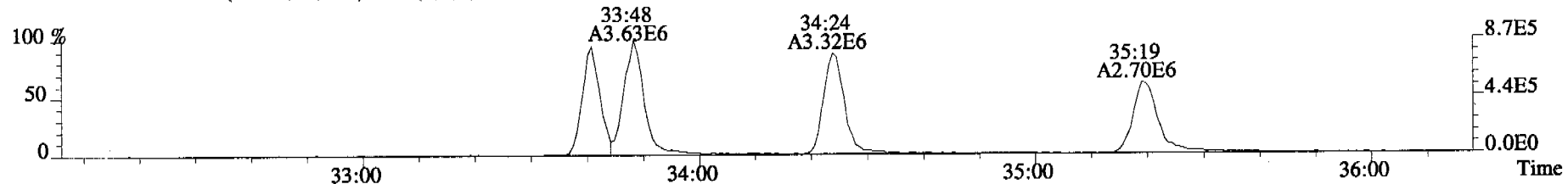


409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

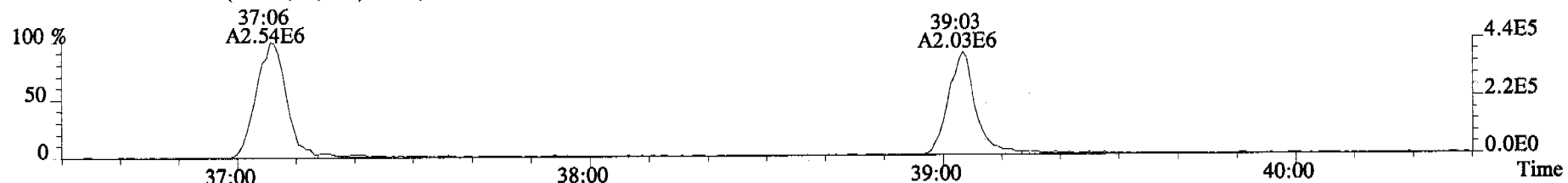




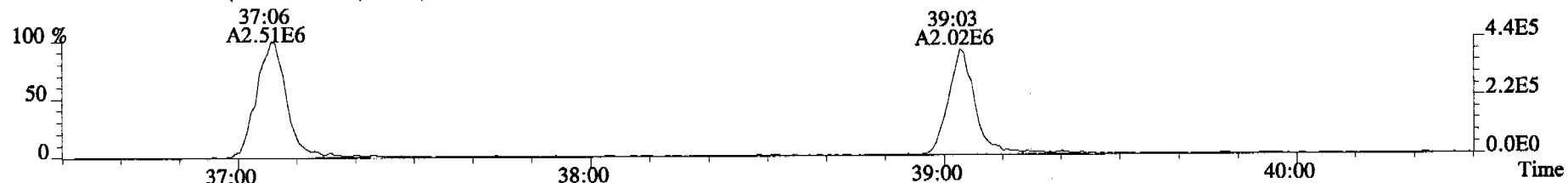
File:060322C1 #1-378 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



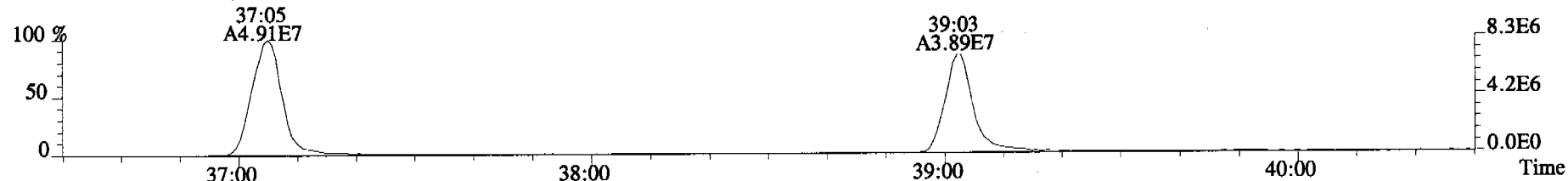
File:060322C1 #1-400 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



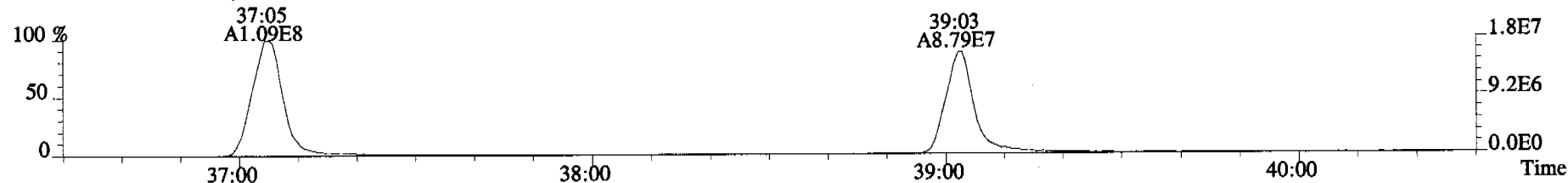
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



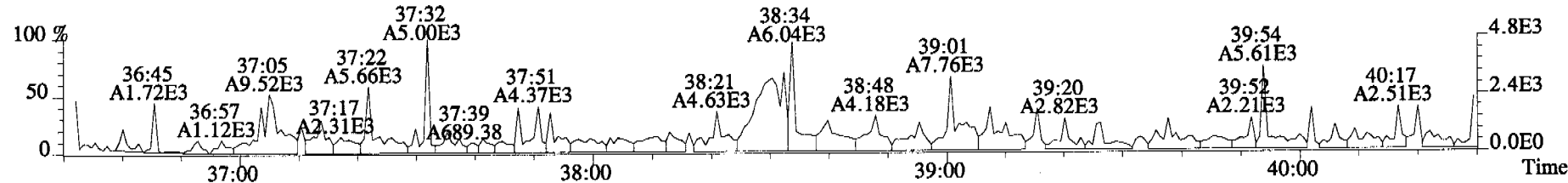
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



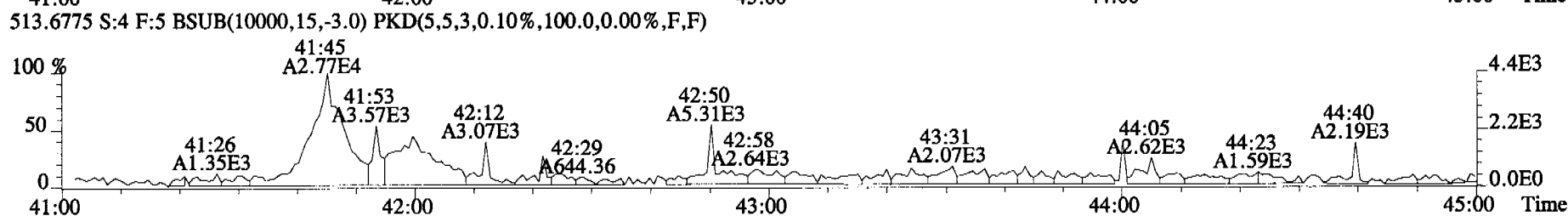
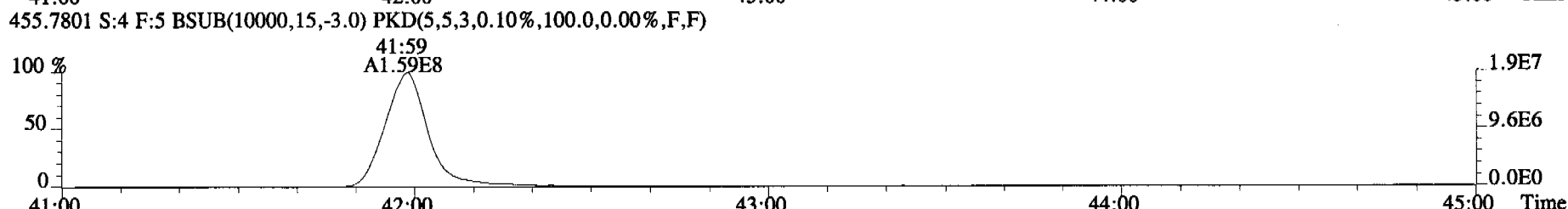
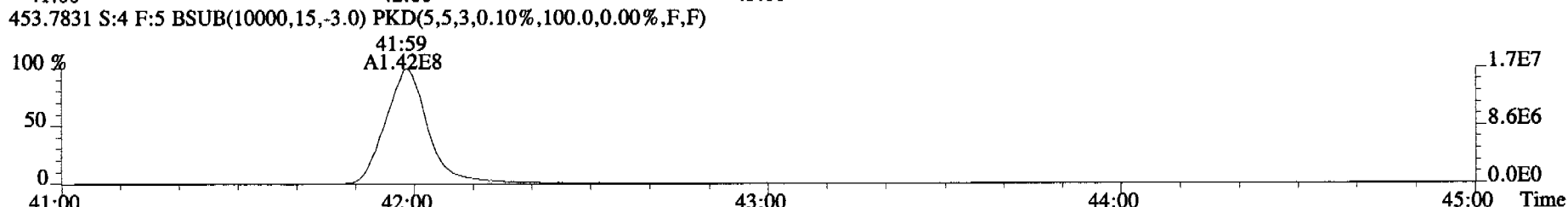
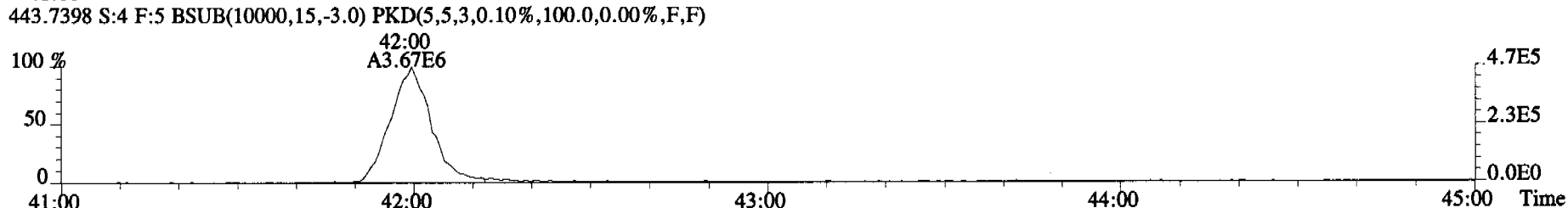
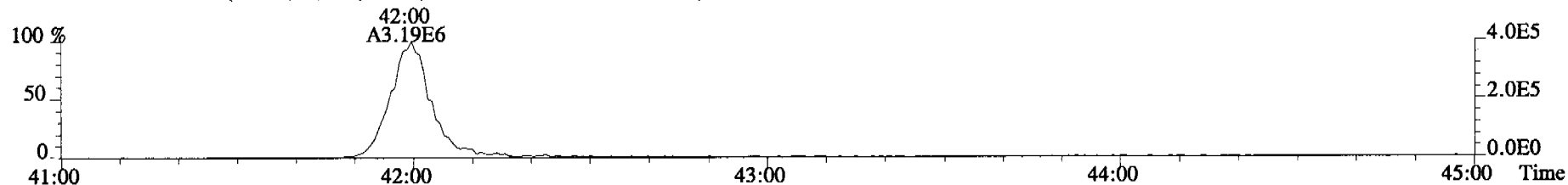
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



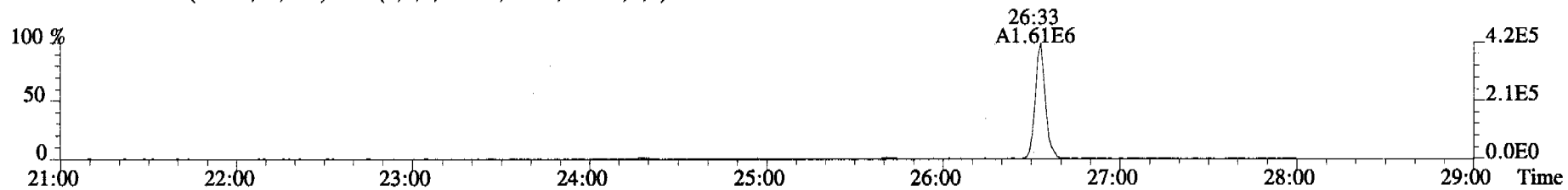
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



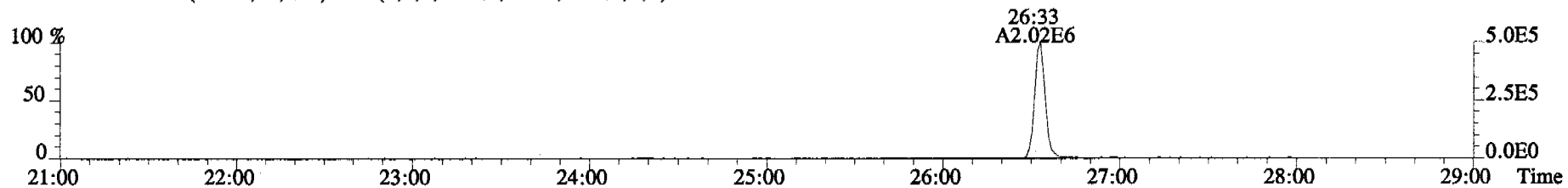
File:060322C1 #1-345 Acq:22-MAR-2006 12:02:01 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#4 File Text:Alta Analytical Laboratory Text:ST060322C1-3 1613 CS1 060110F Exp:OCDD\_DB5  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



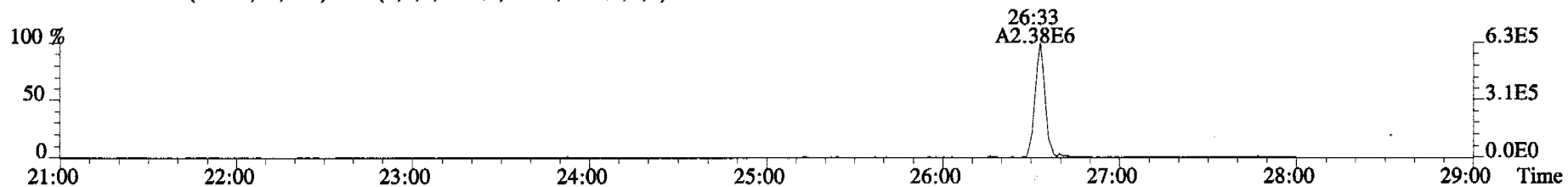
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



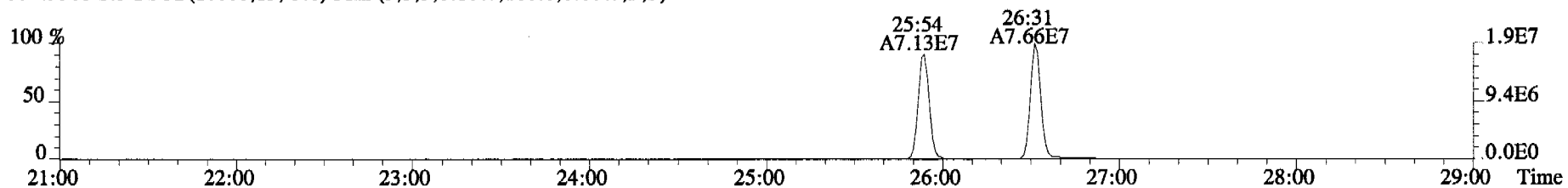
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



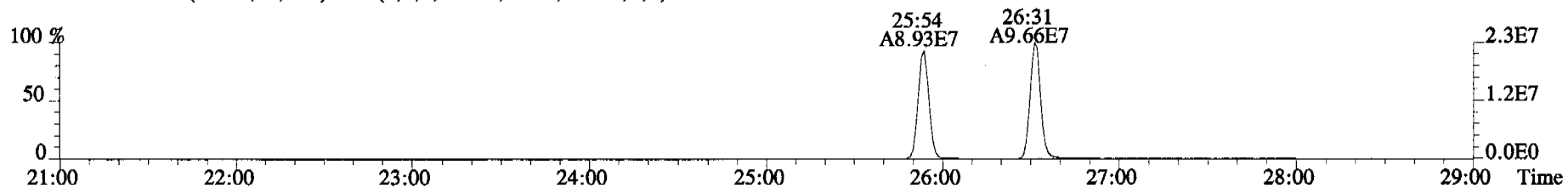
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



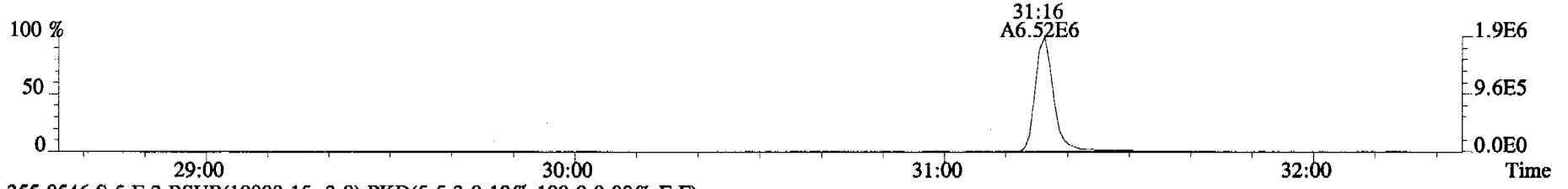
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



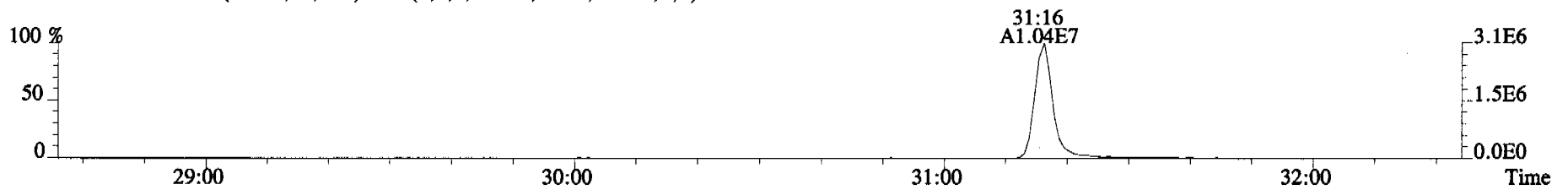
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



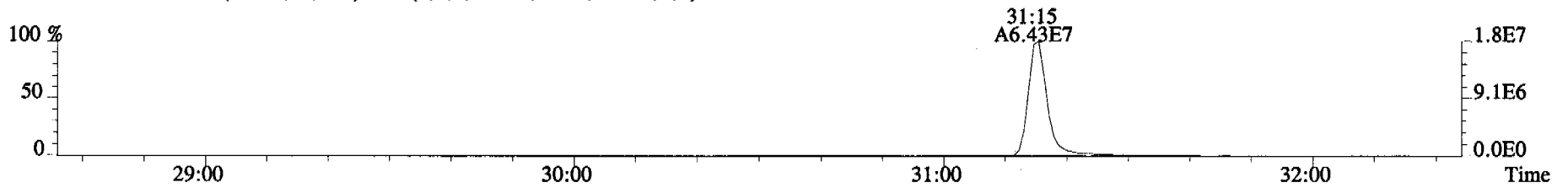
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



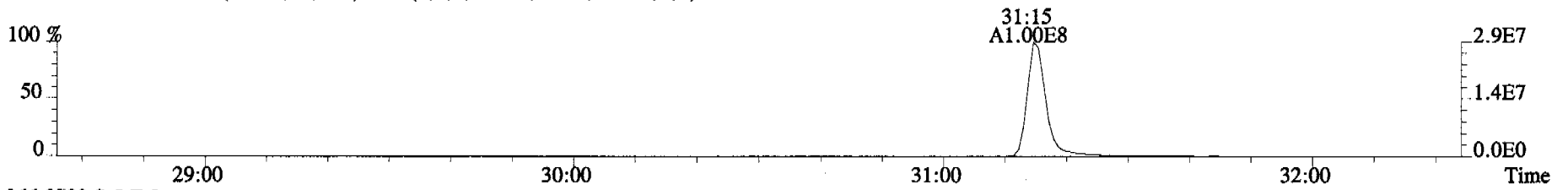
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



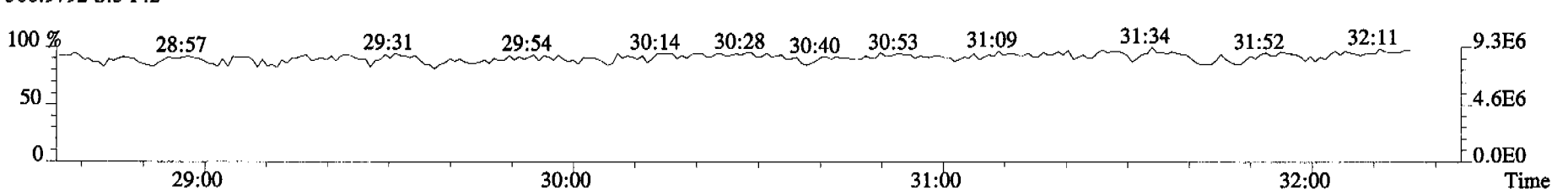
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



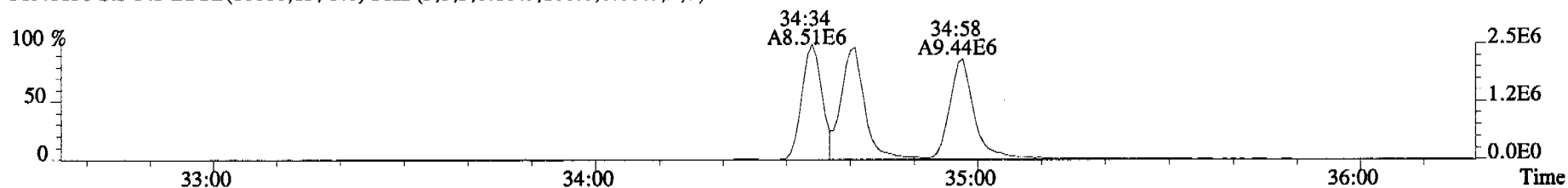
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



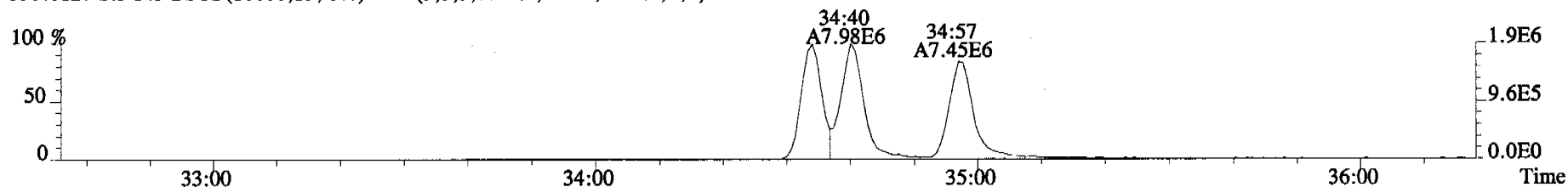
366.9792 S:5 F:2



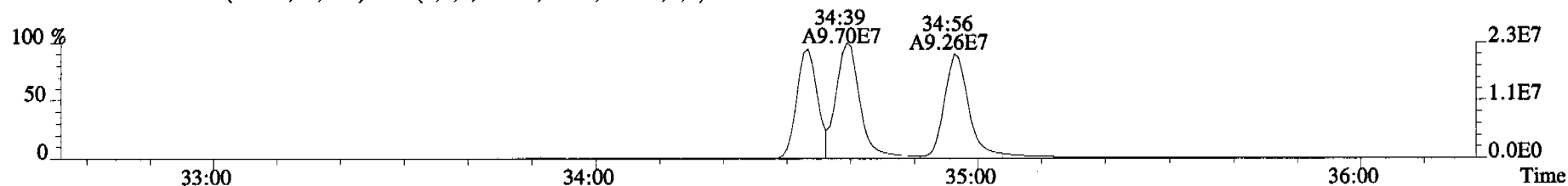
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



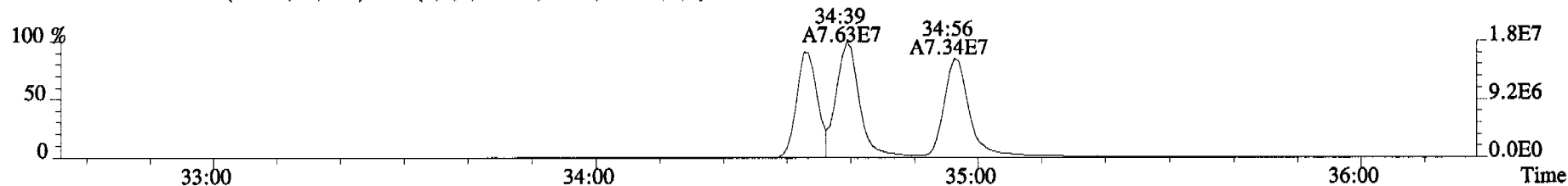
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



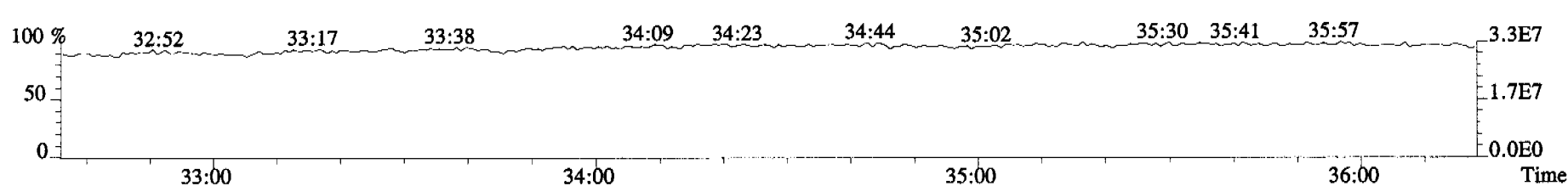
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



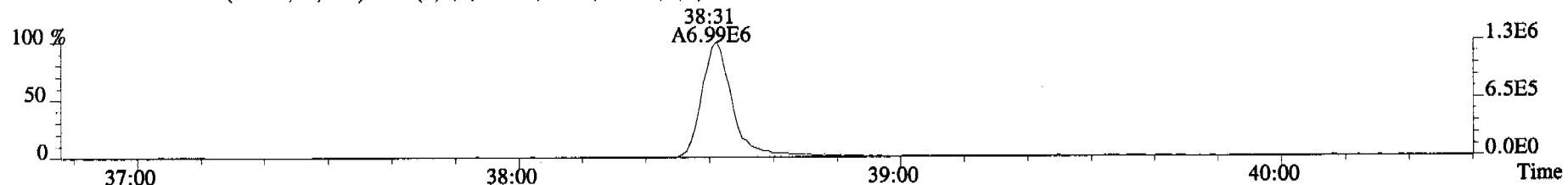
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



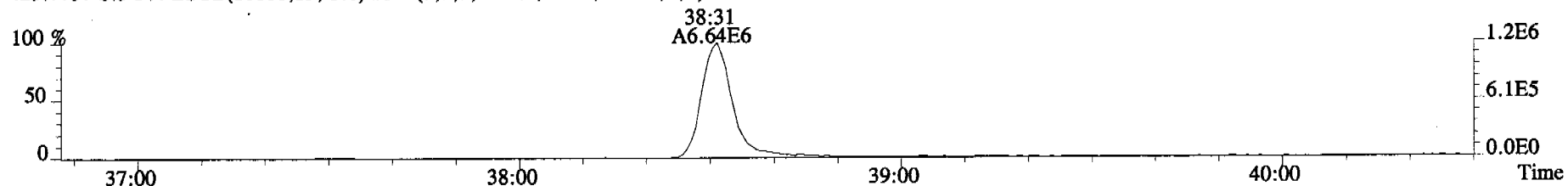
380.9760 S:5 F:3



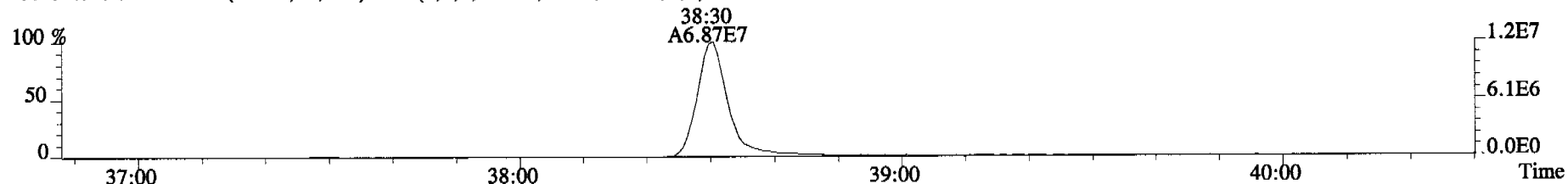
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



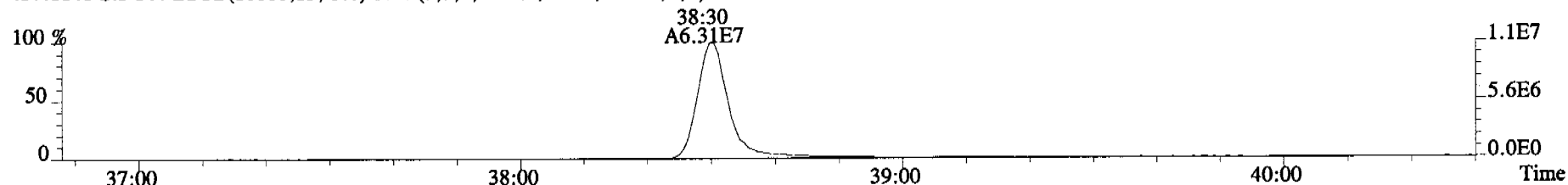
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



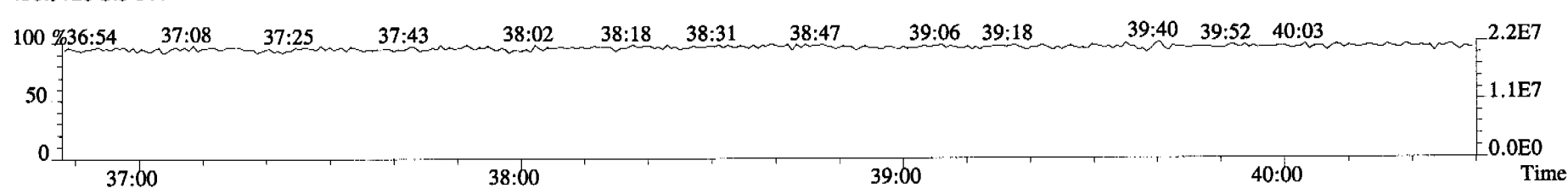
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



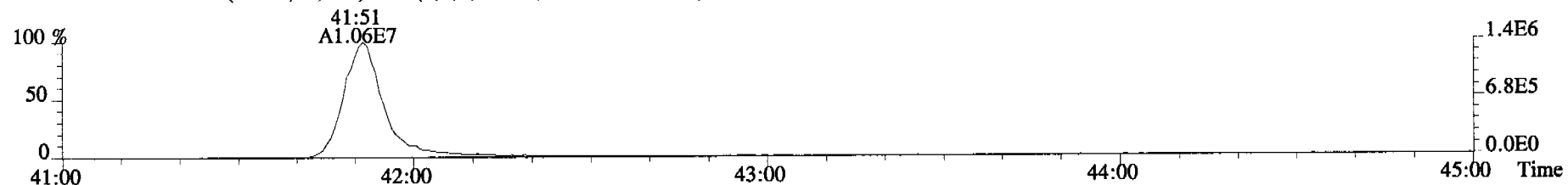
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



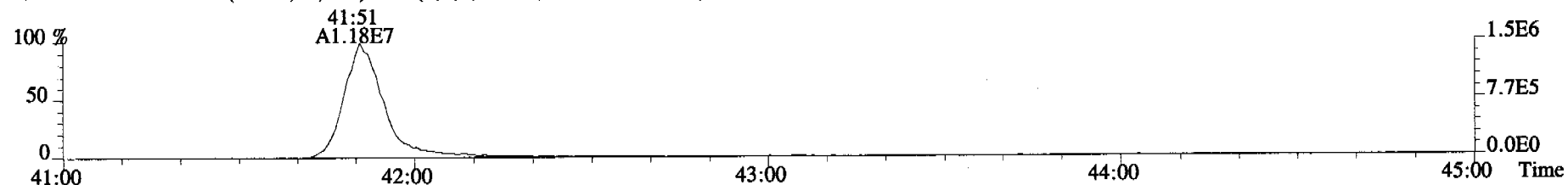
430.9728 S:5 F:4



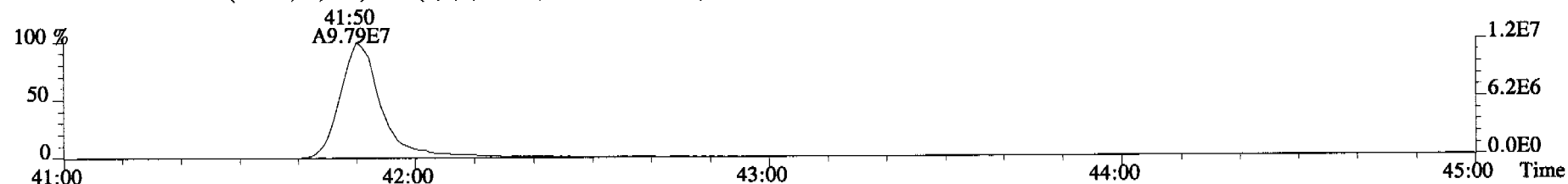
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



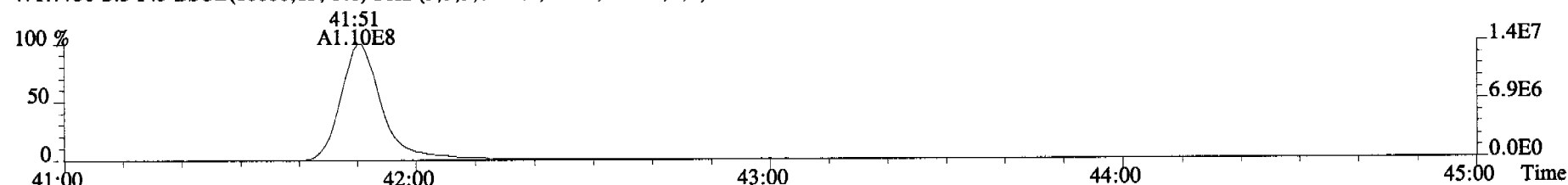
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



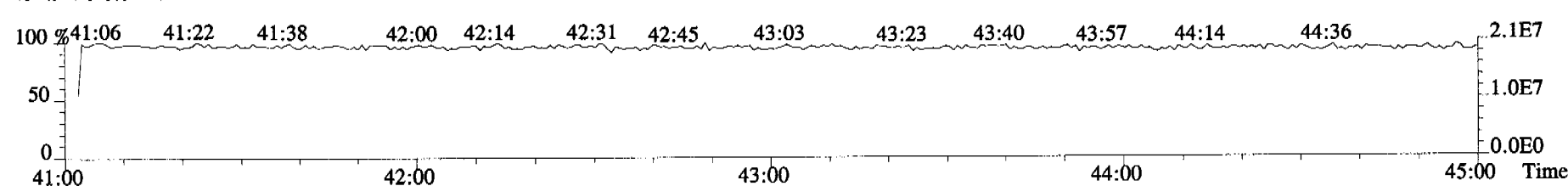
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

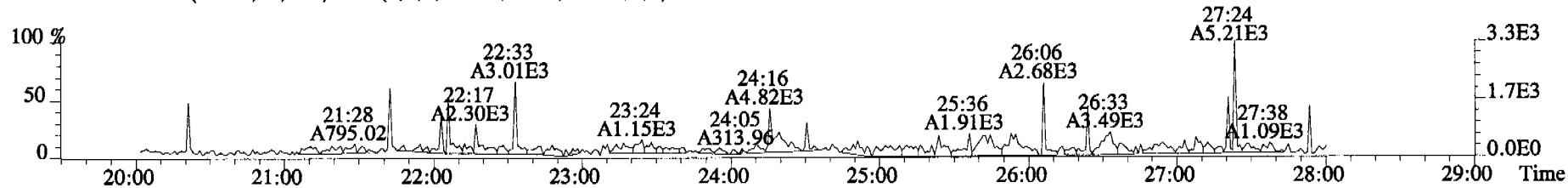
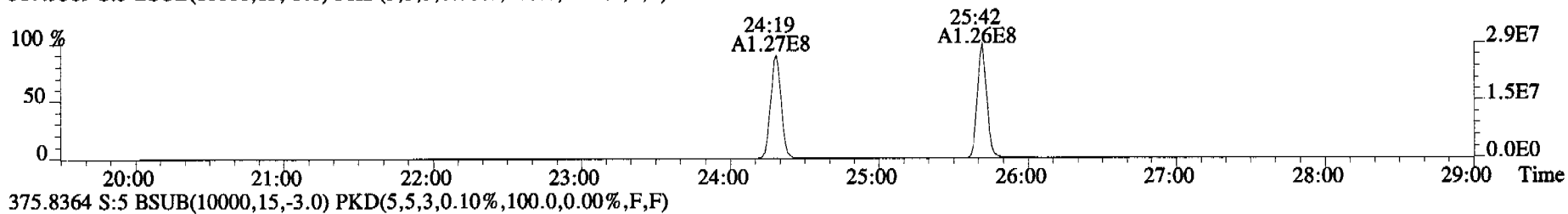
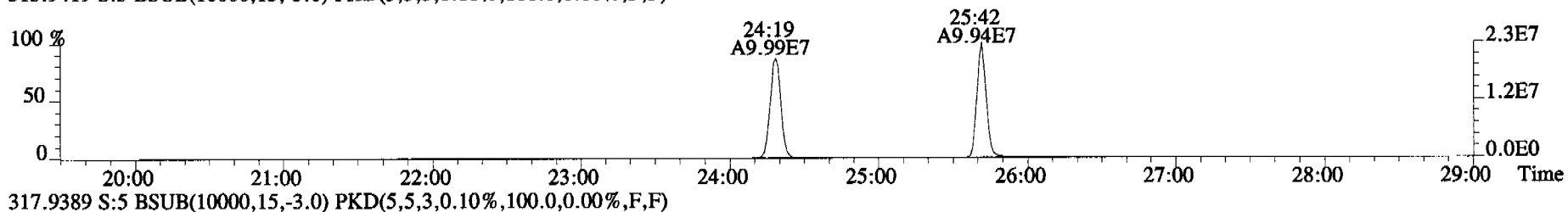
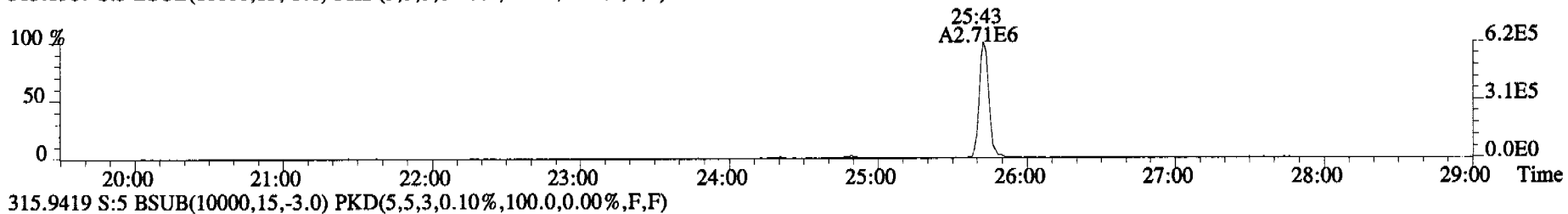
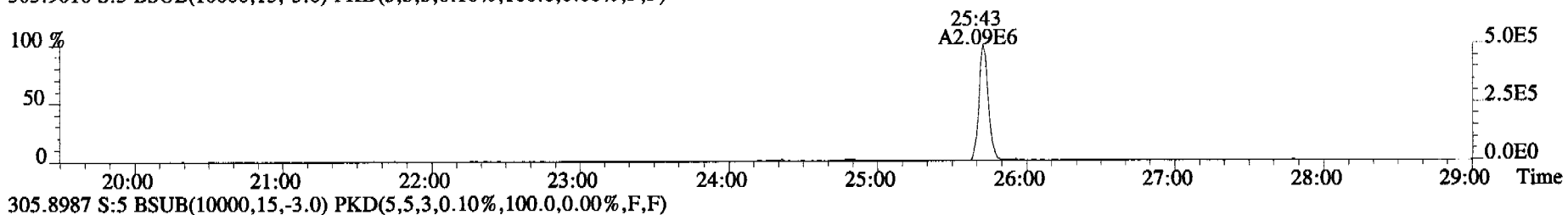


454.9728 S:5 F:5

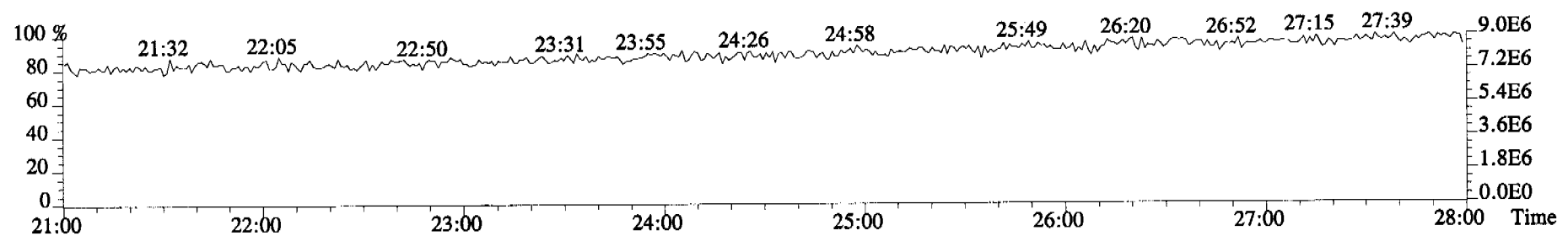
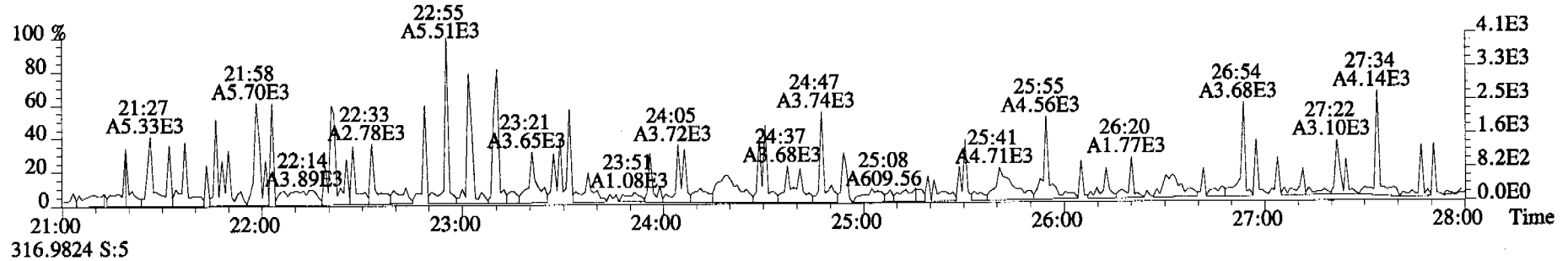
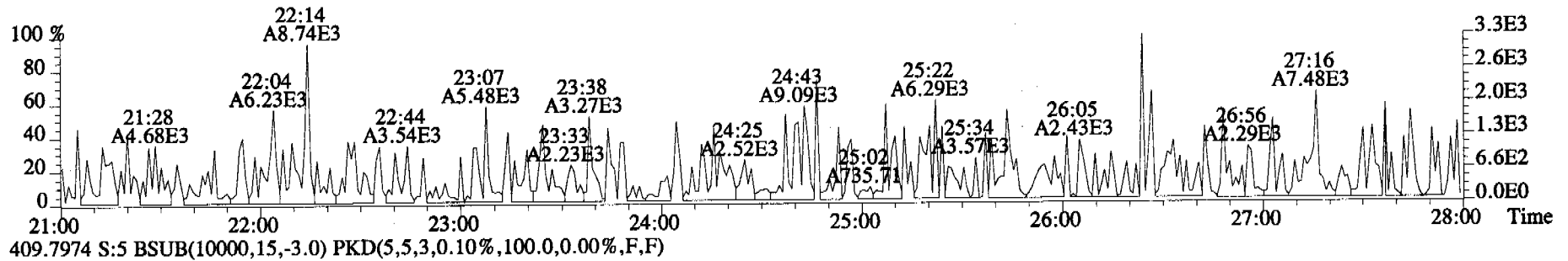
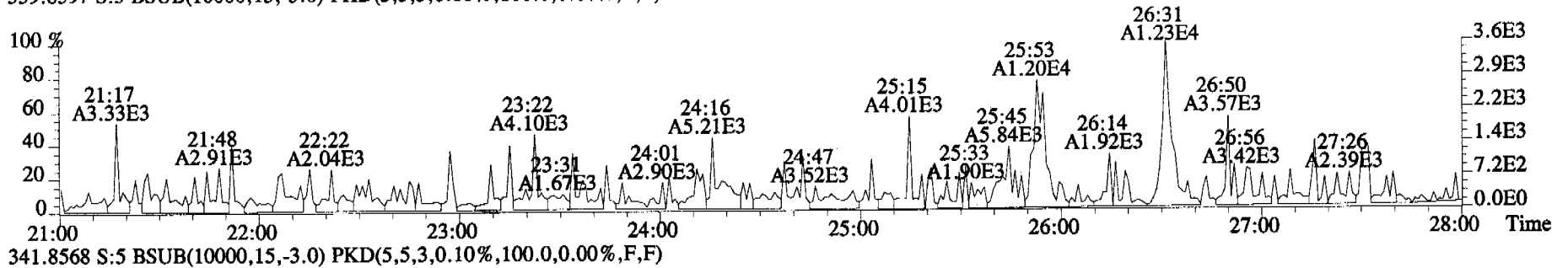




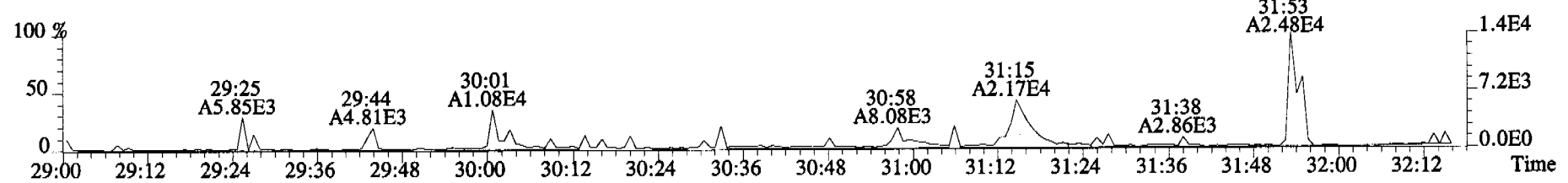
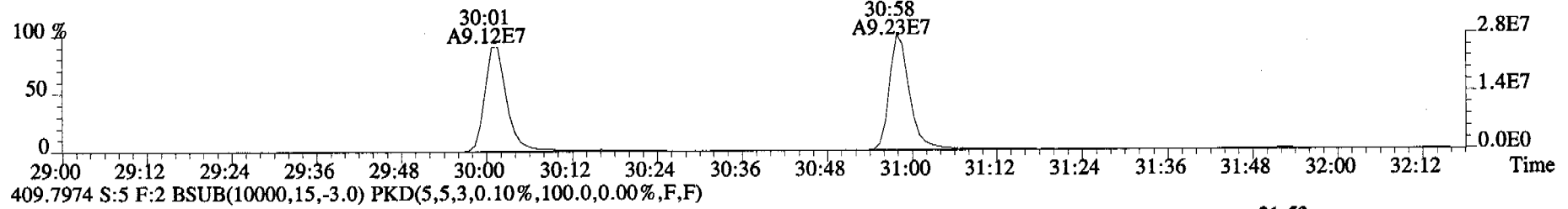
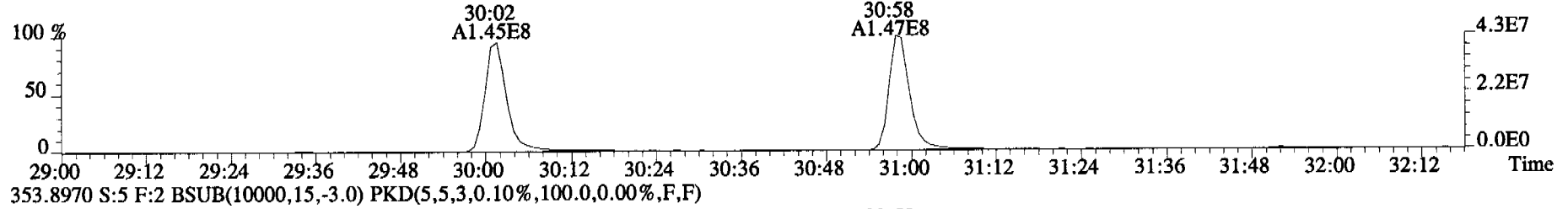
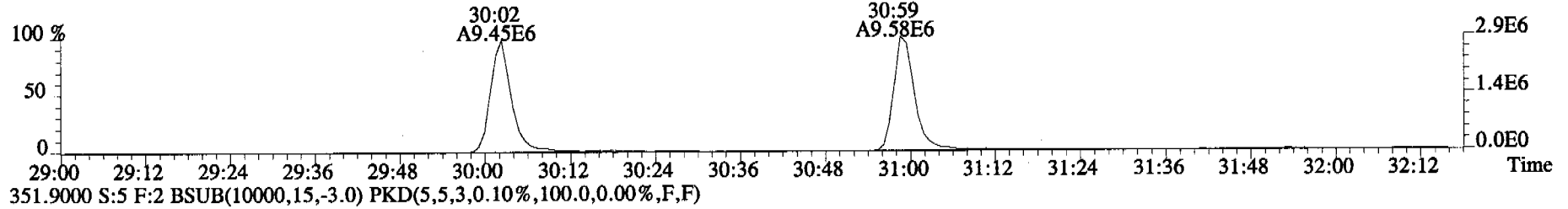
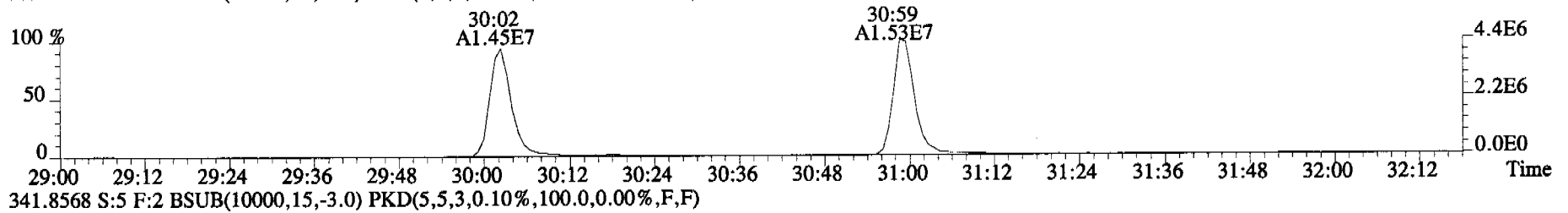
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



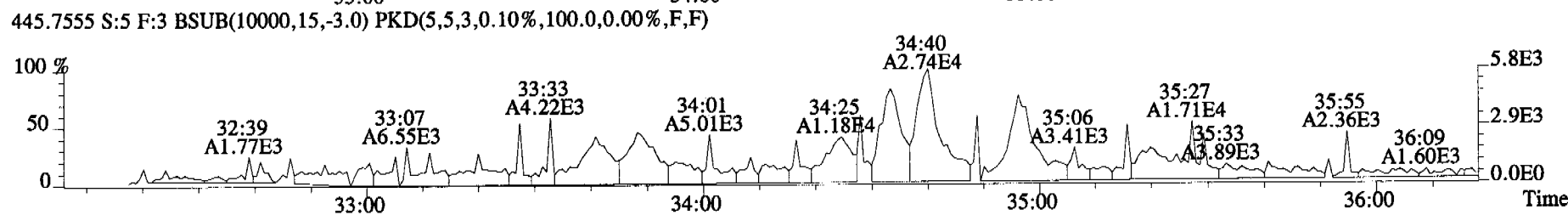
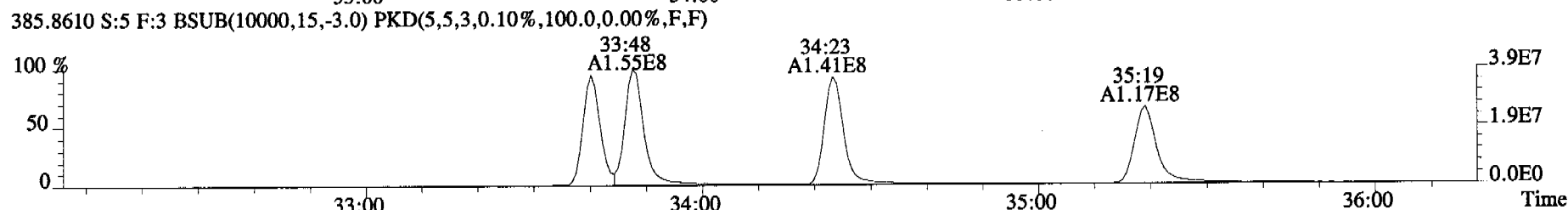
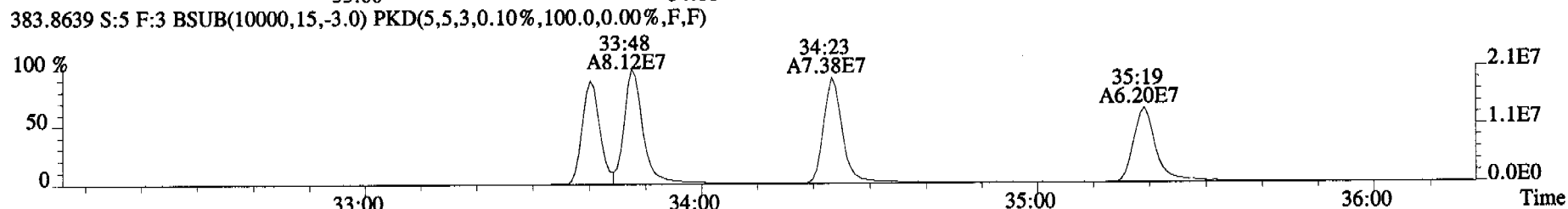
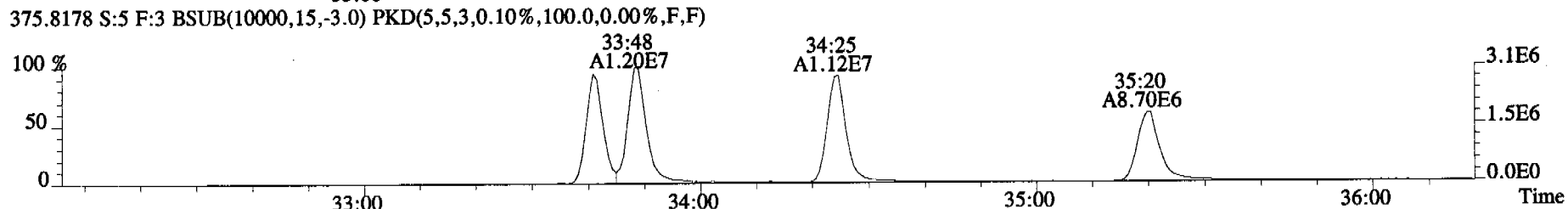
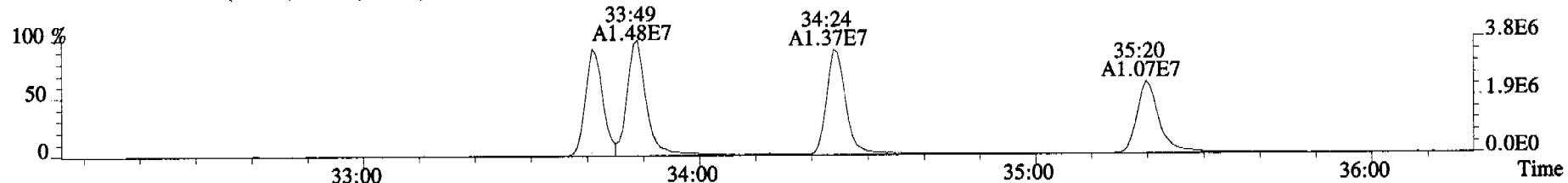
File:060322C1 #1-513 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



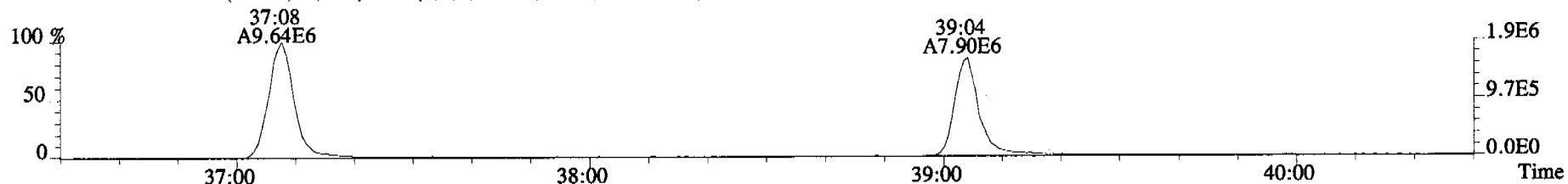
File:060322C1 #1-317 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



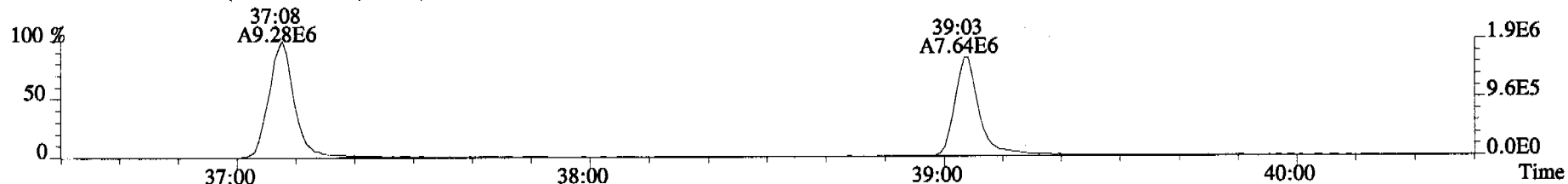
File:060322C1 #1-377 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



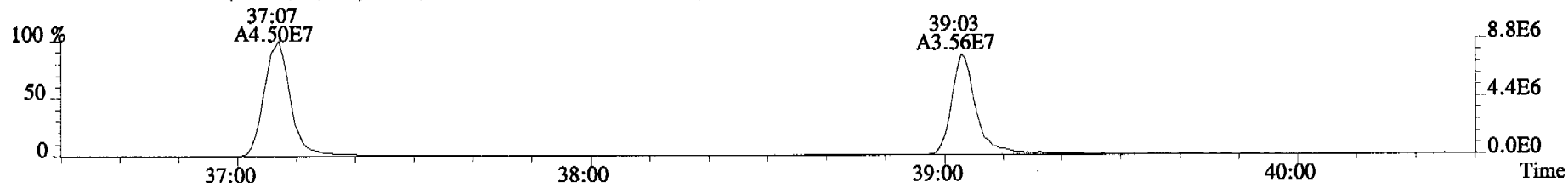
File:060322C1 #1-400 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



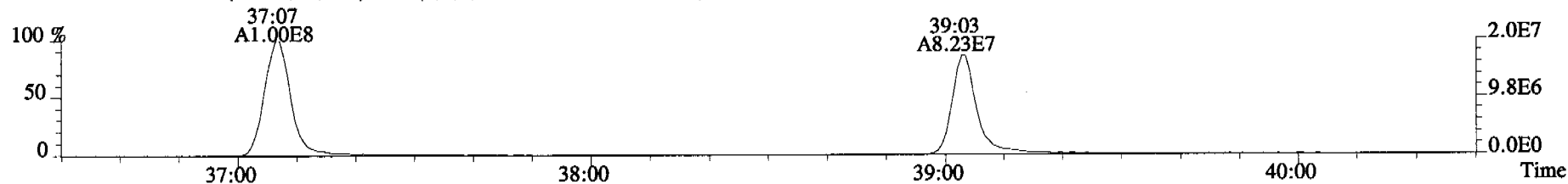
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



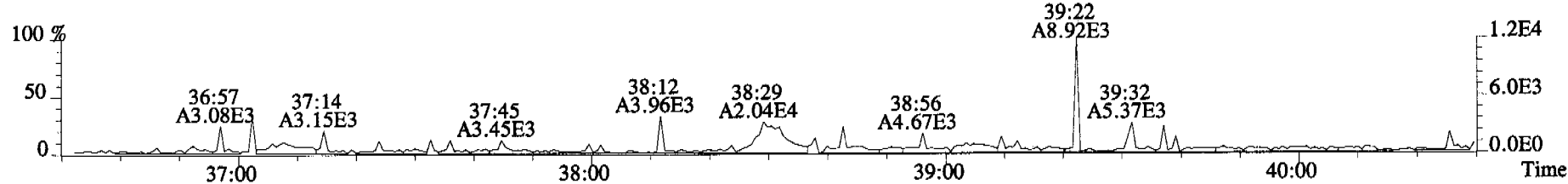
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



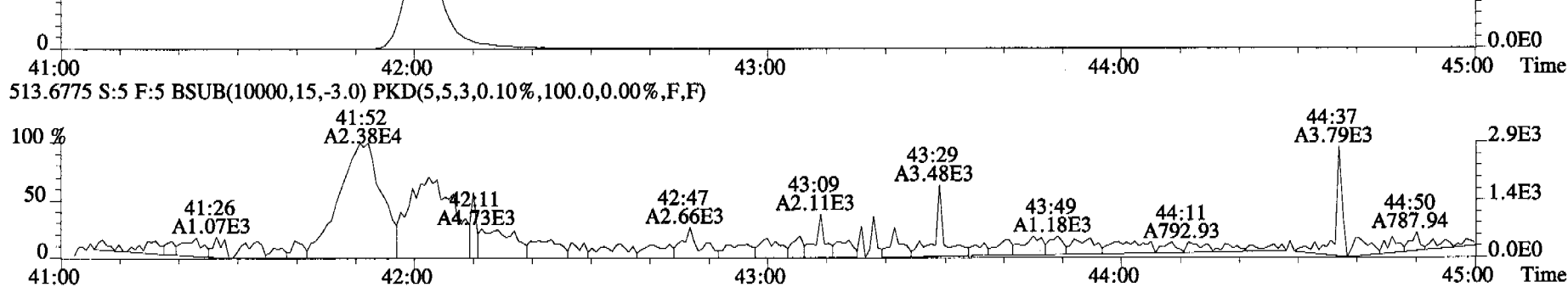
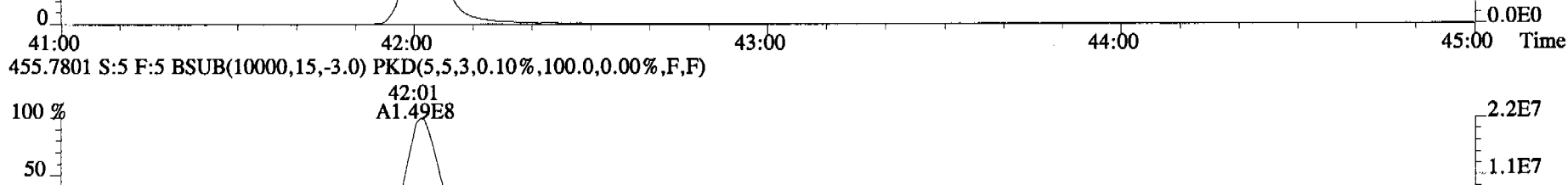
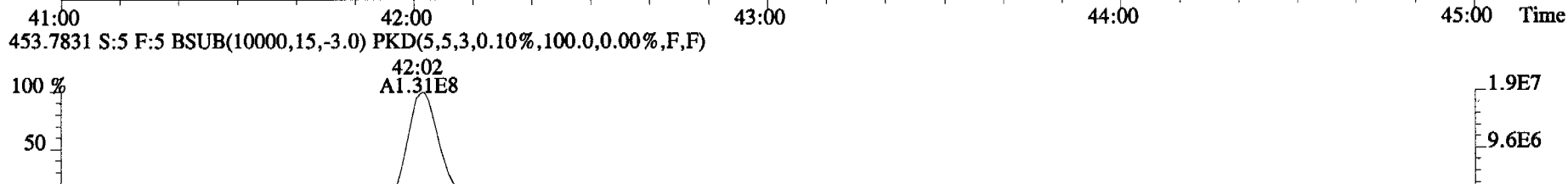
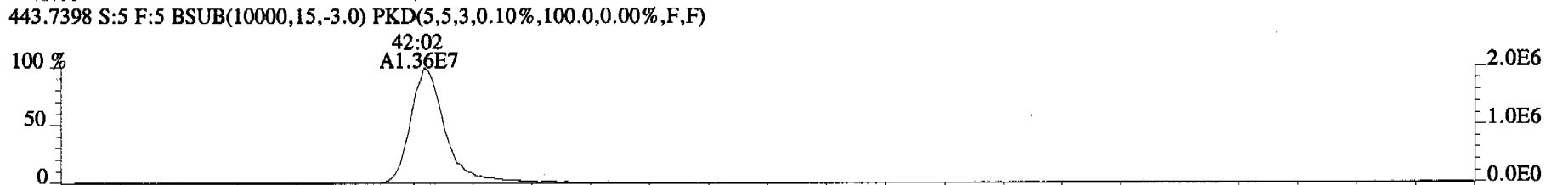
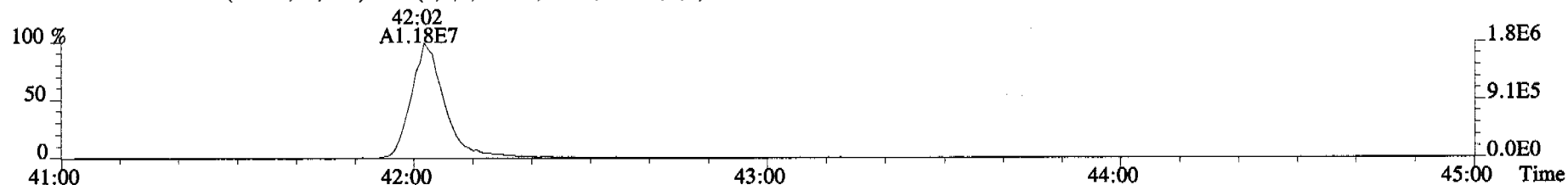
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



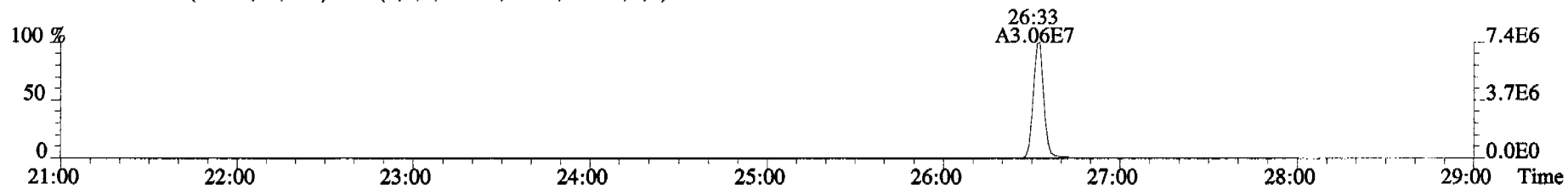
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



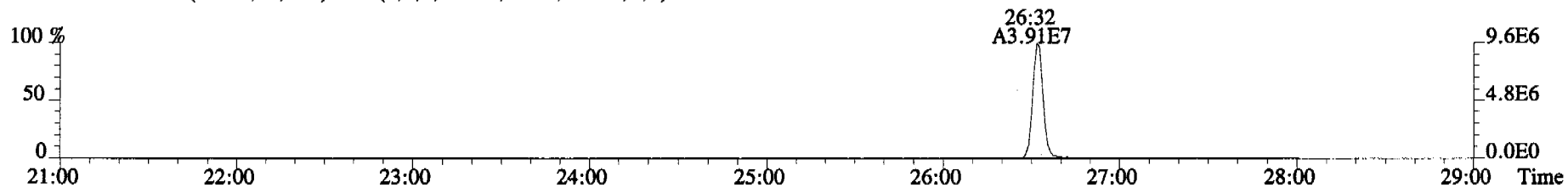
File:060322C1 #1-345 Acq:22-MAR-2006 12:51:46 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#5 File Text:Alta Analytical Laboratory Text:ST060322C1-4 1613 CS2 060110G Exp:OCDD\_DB5  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



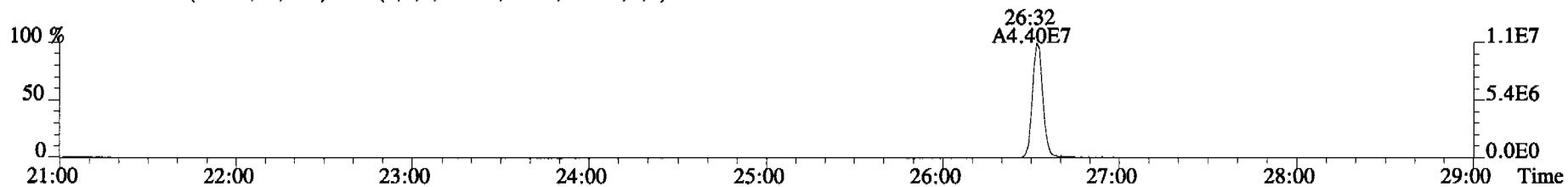
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



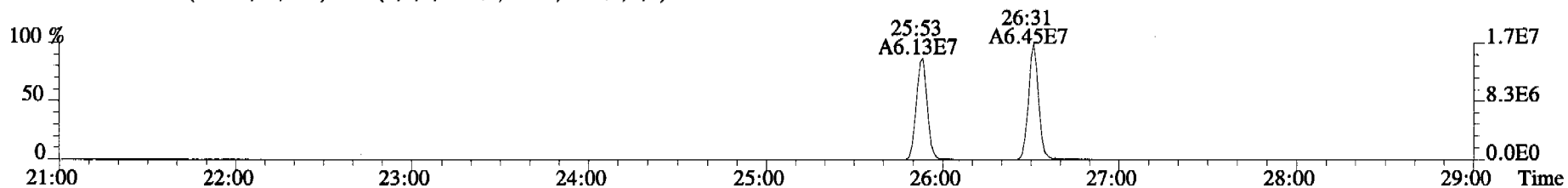
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



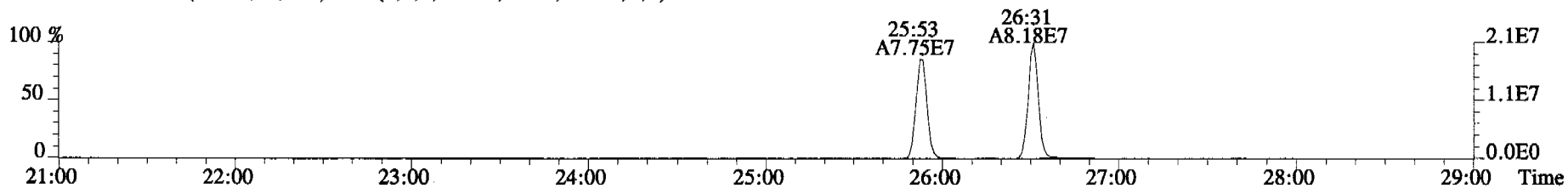
327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



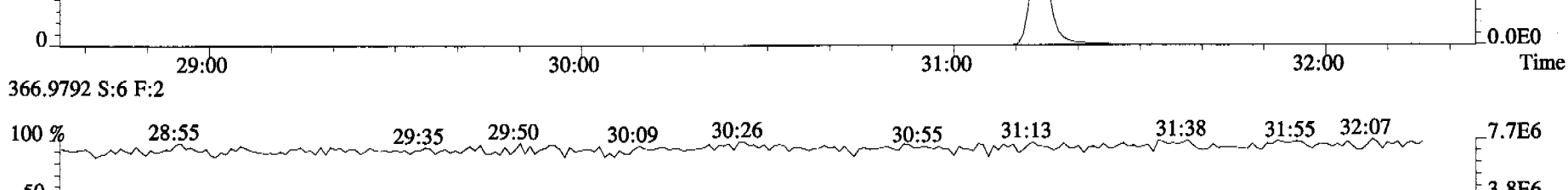
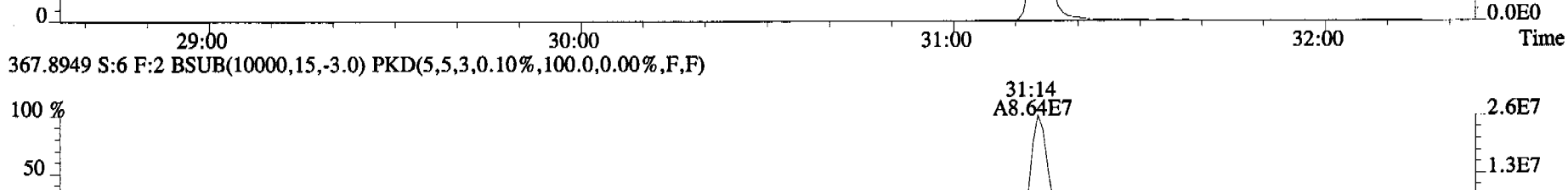
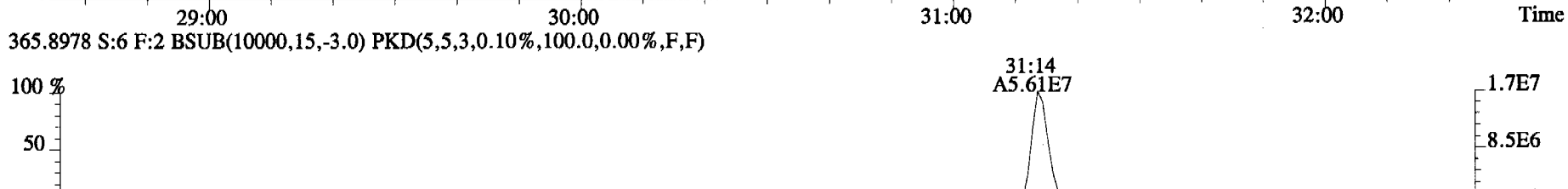
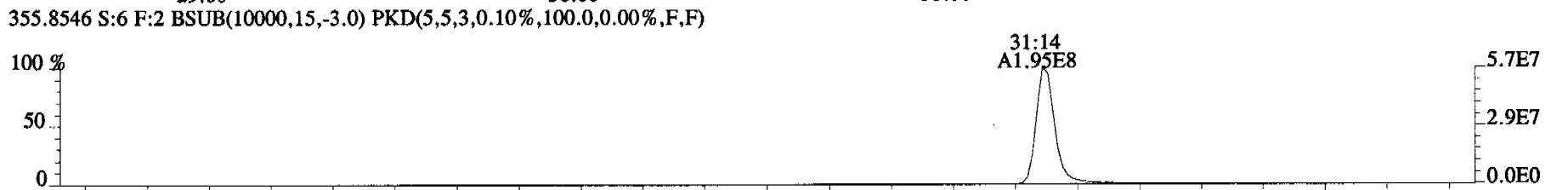
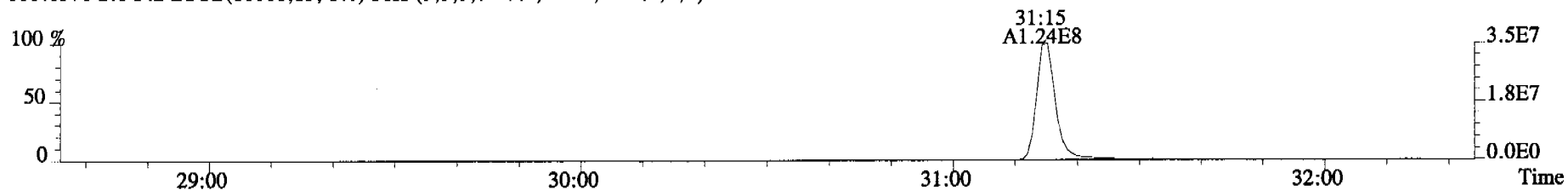
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

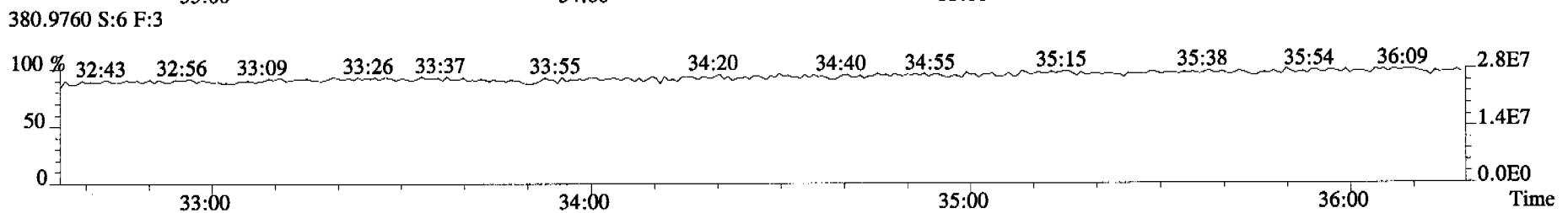
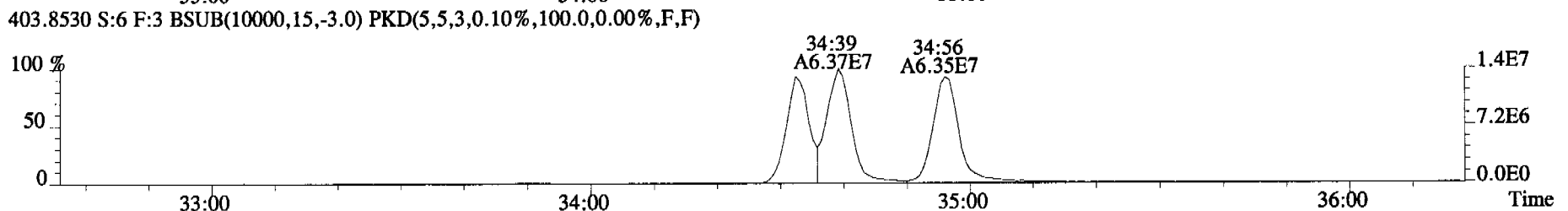
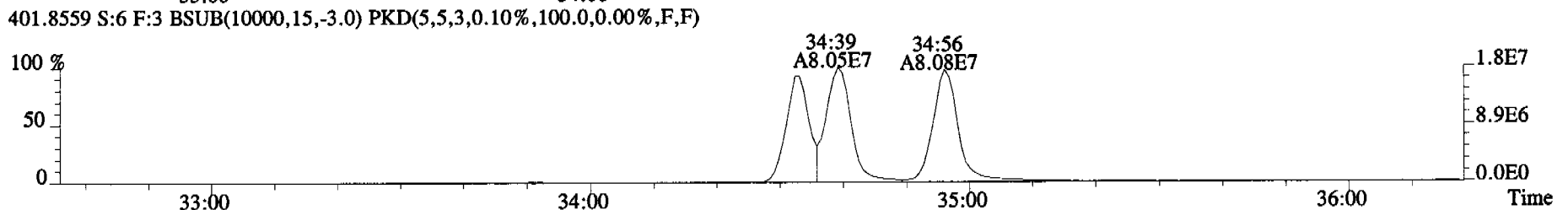
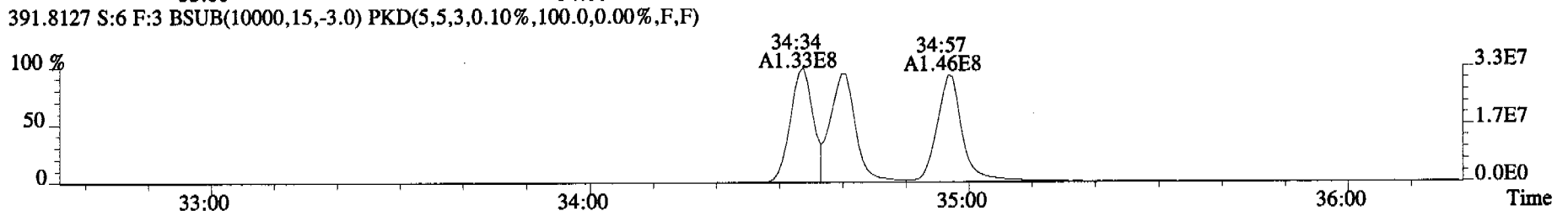
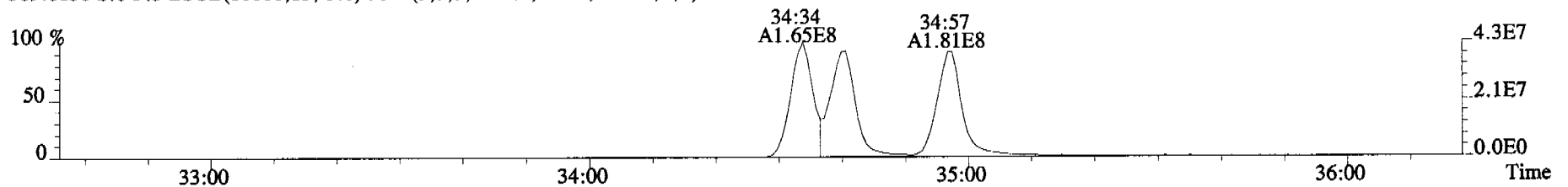


File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

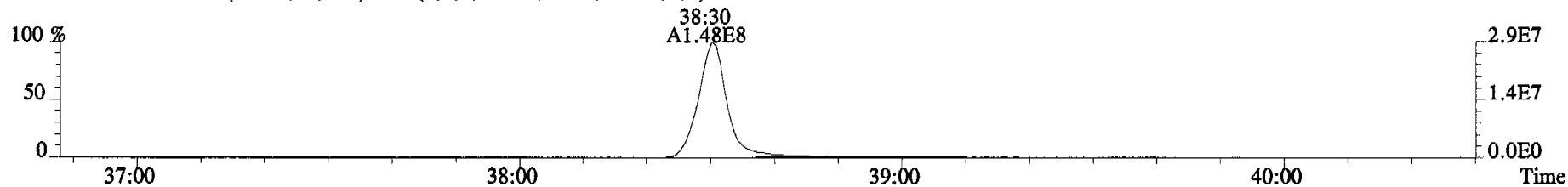




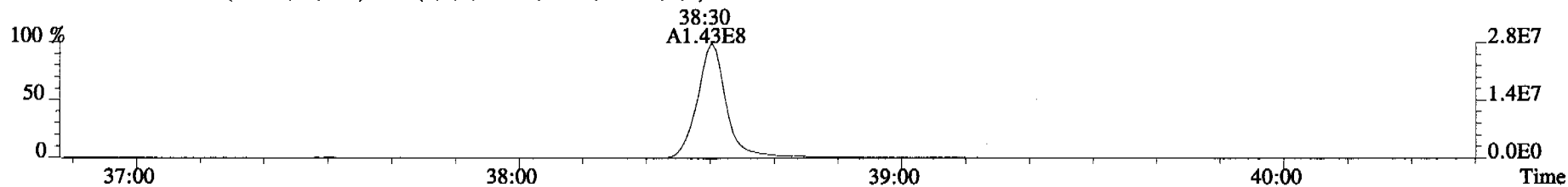
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 0601101 Exp:OCDD\_DB5  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



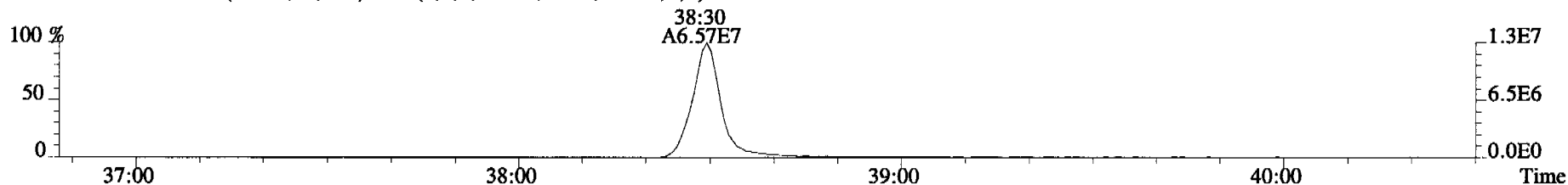
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



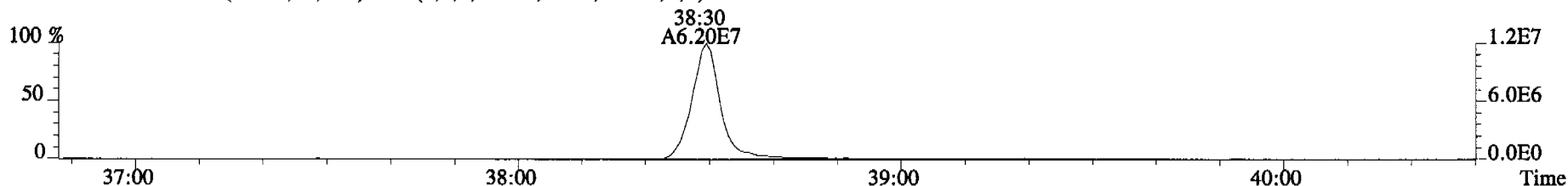
425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



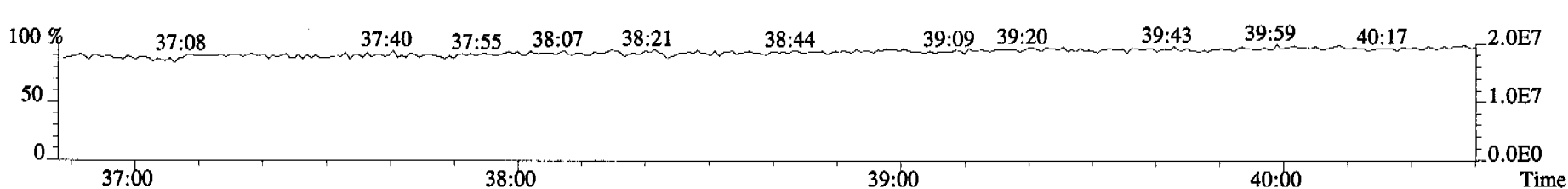
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



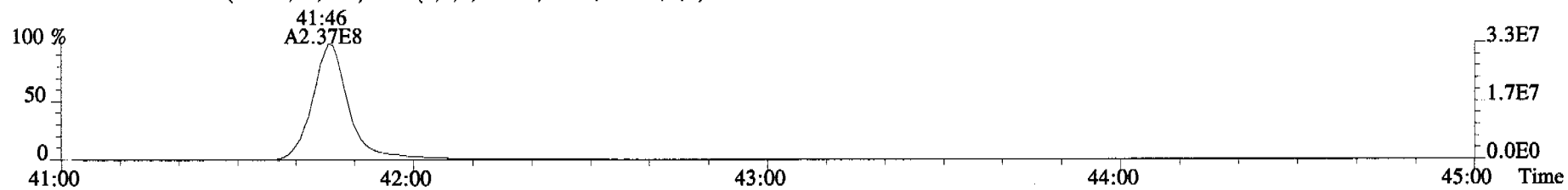
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



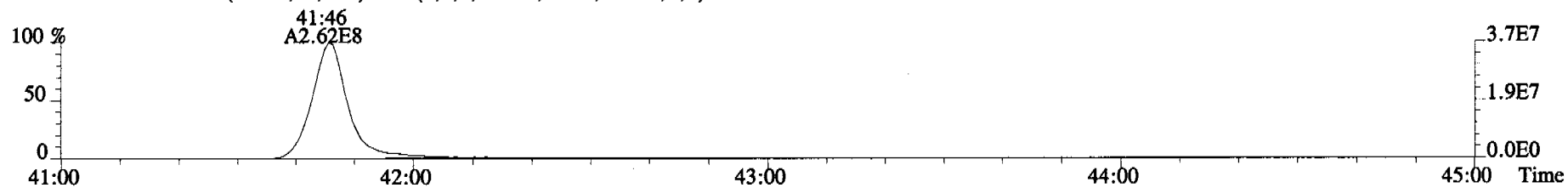
430.9728 S:6 F:4



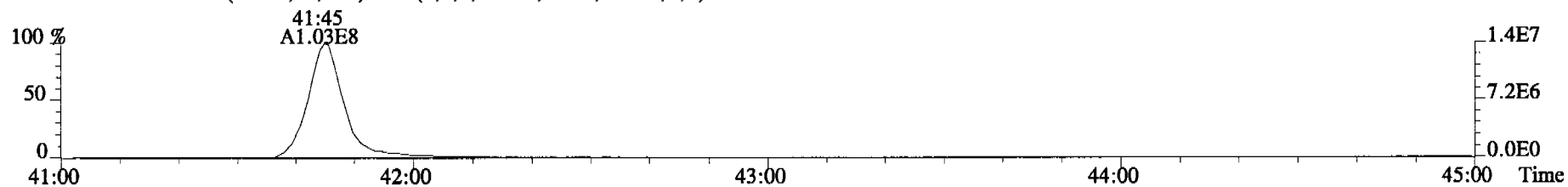
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Aita Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



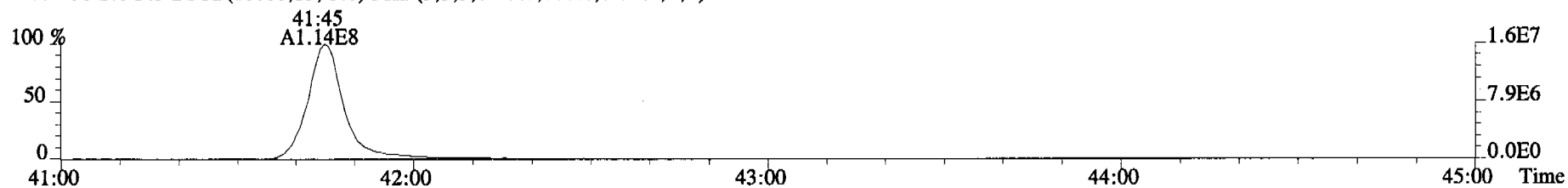
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



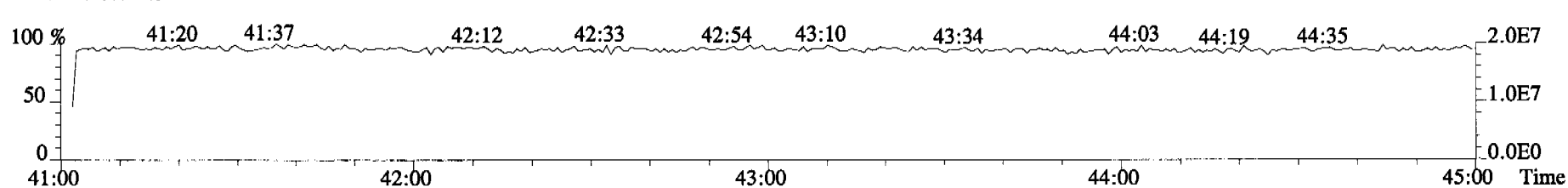
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



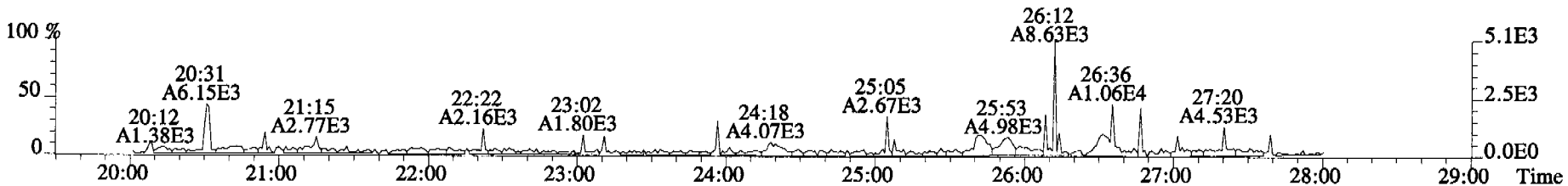
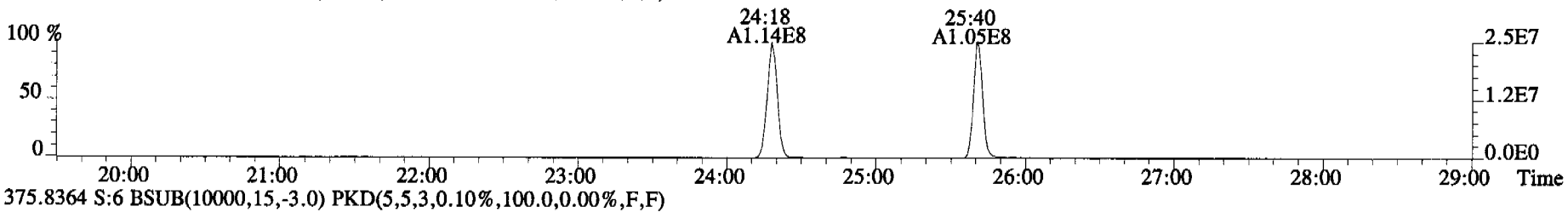
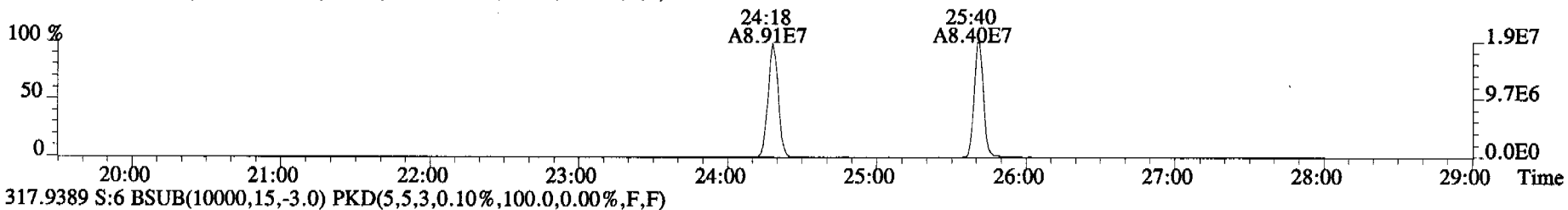
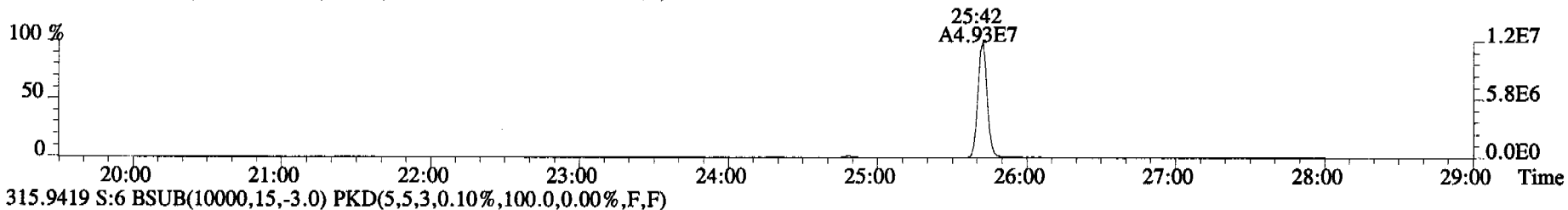
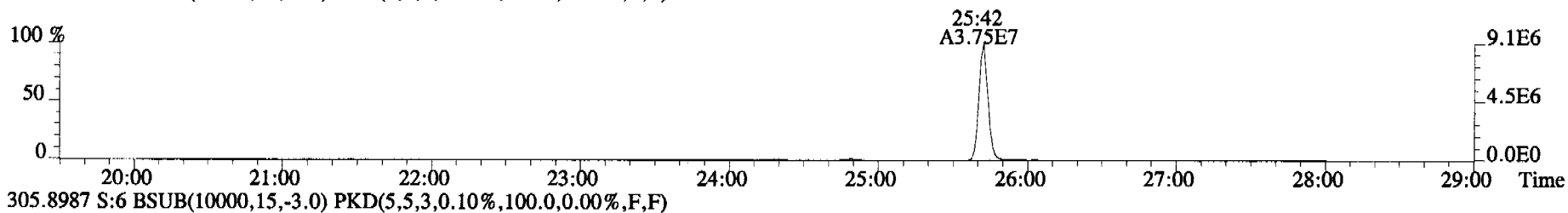
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



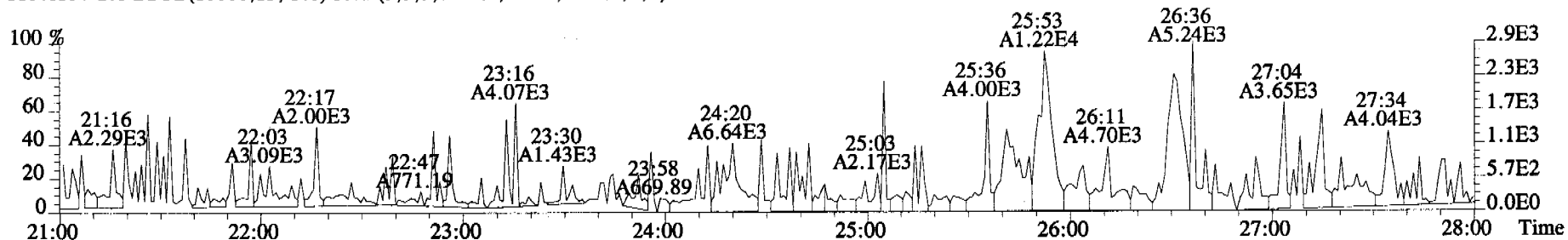
454.9728 S:6 F:5



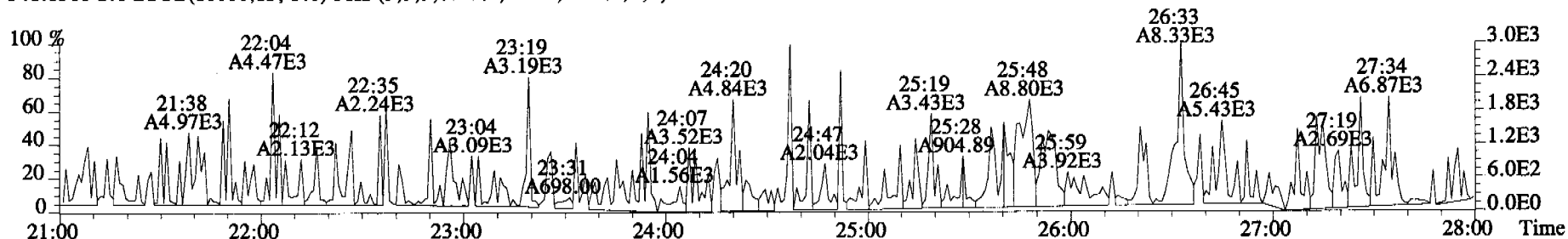
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



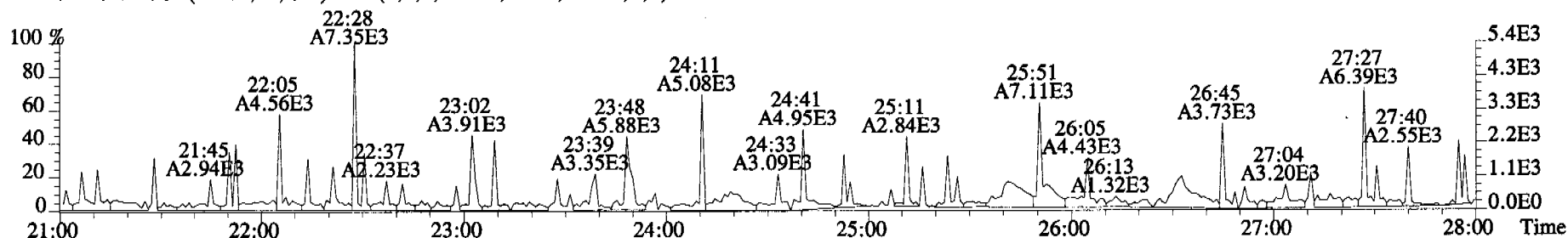
File:060322C1 #1-514 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



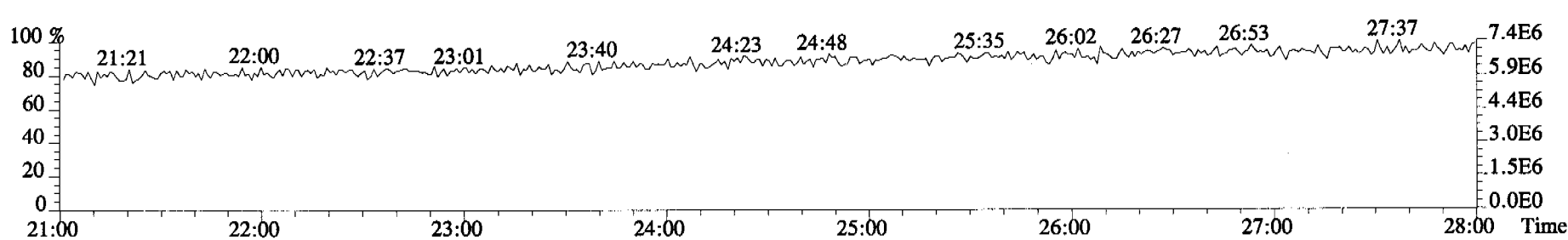
341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



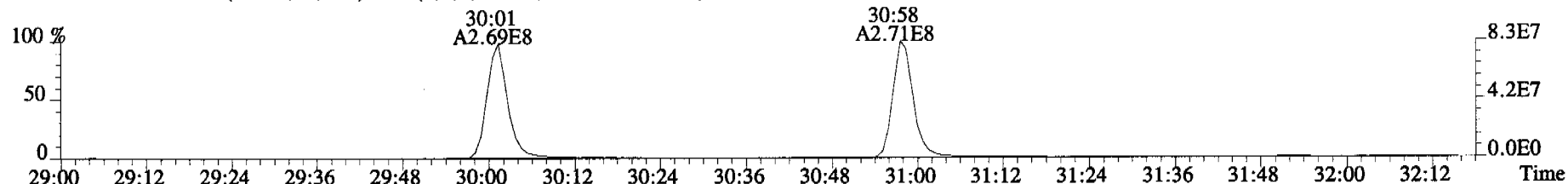
409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



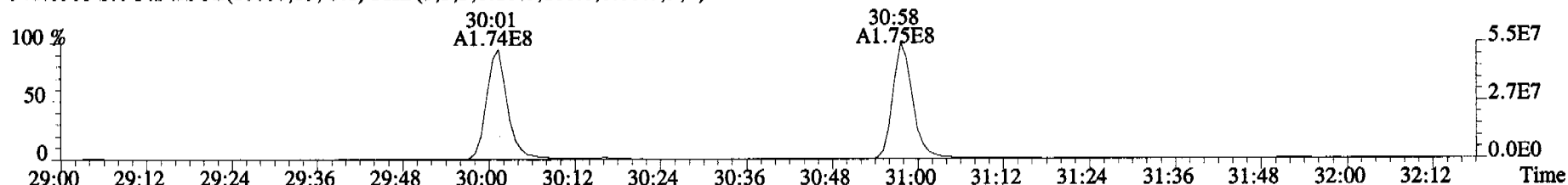
316.9824 S:6



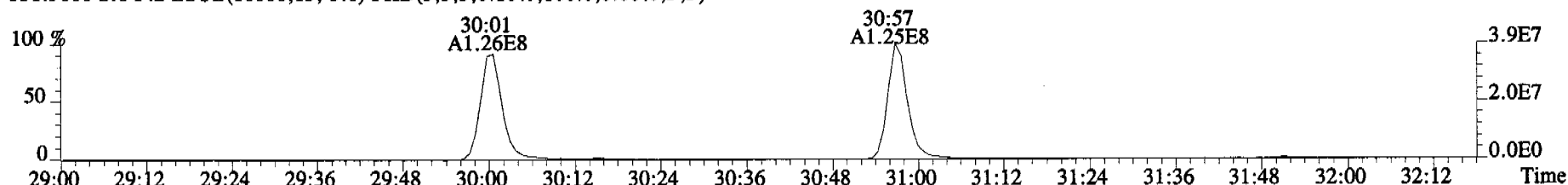
File:060322C1 #1-316 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



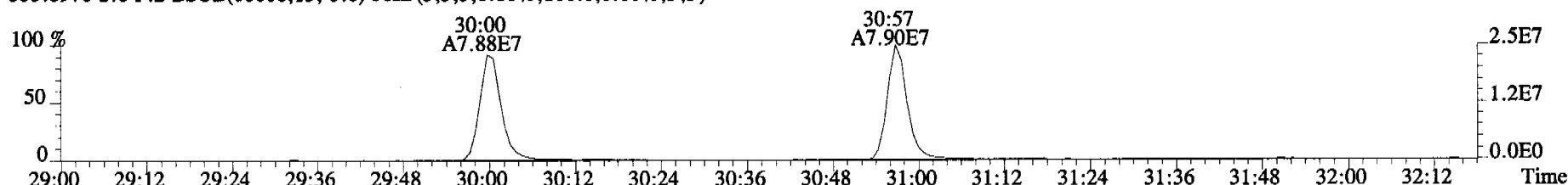
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



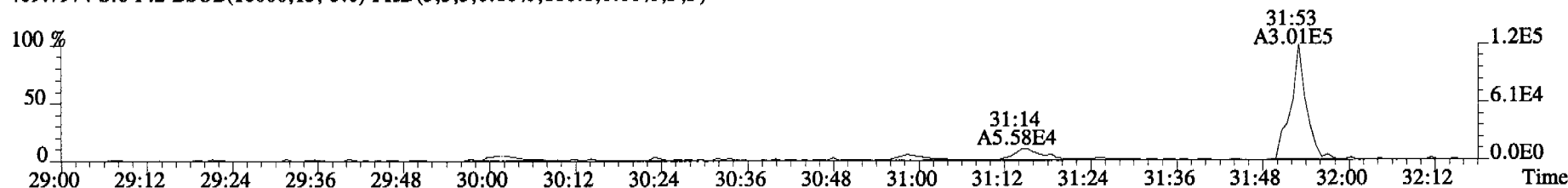
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



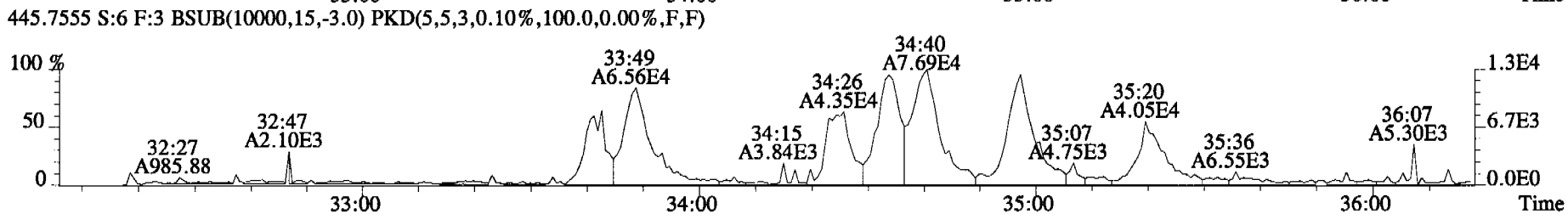
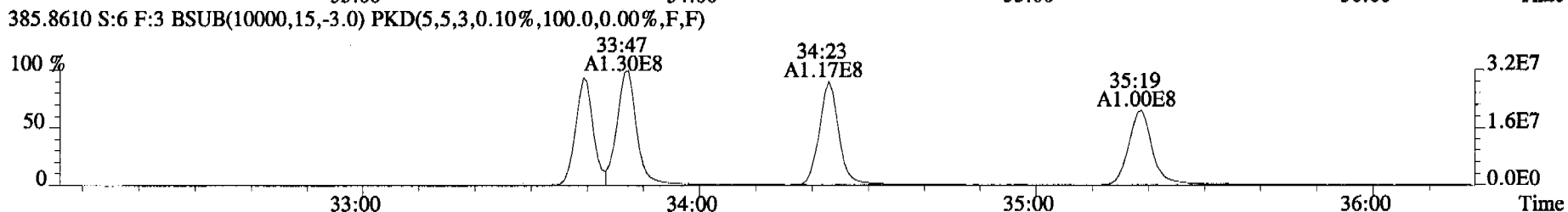
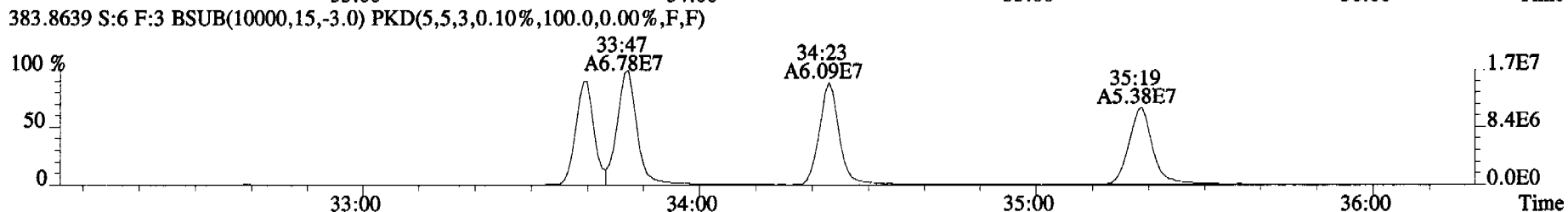
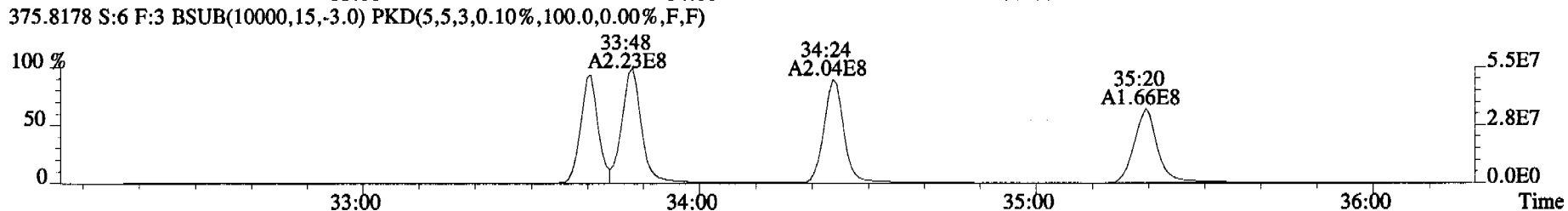
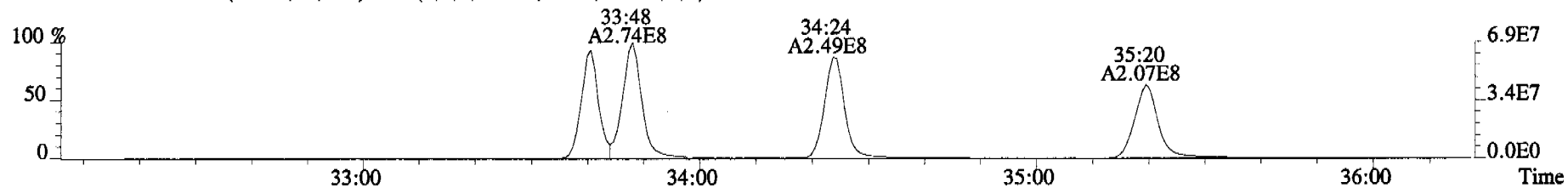
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



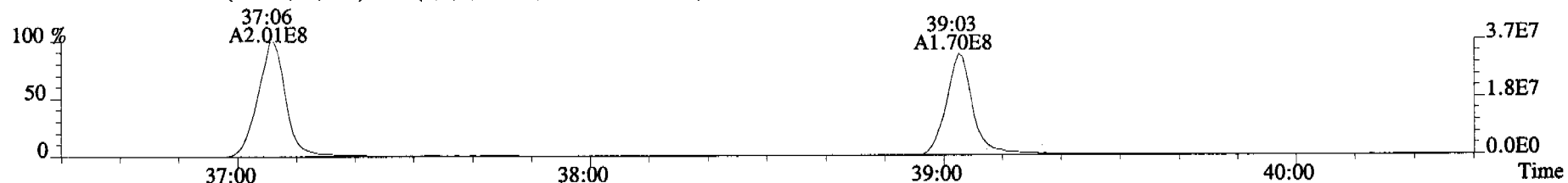
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



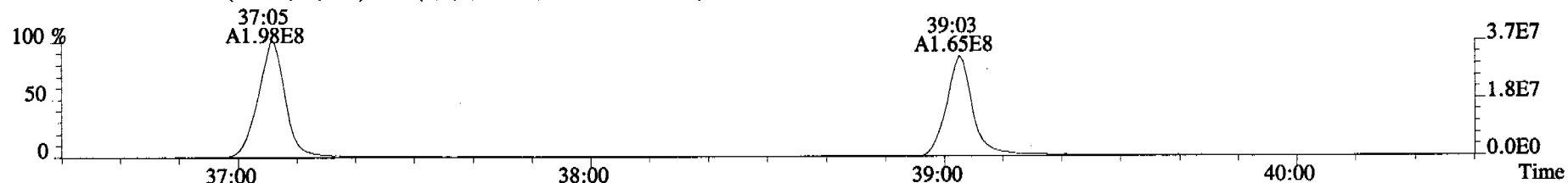
File:060322C1 #1-377 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



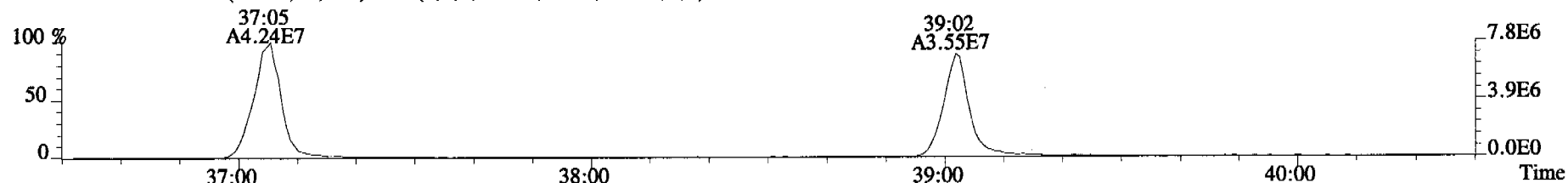
File:060322C1 #1-400 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 060110I Exp:OCDD\_DB5  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



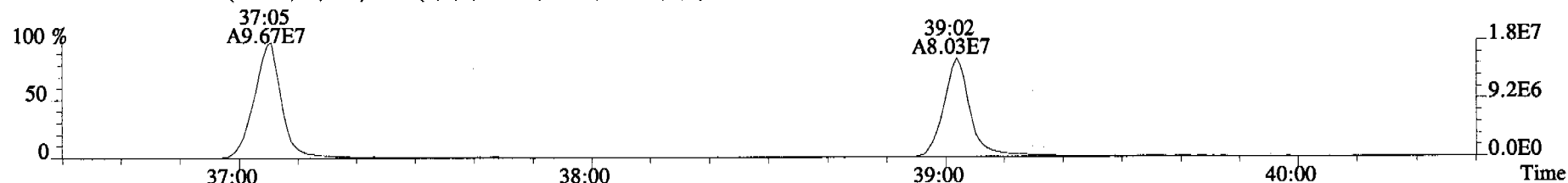
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



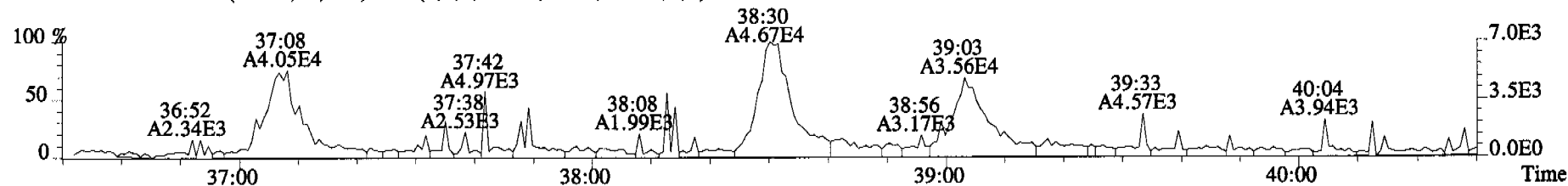
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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

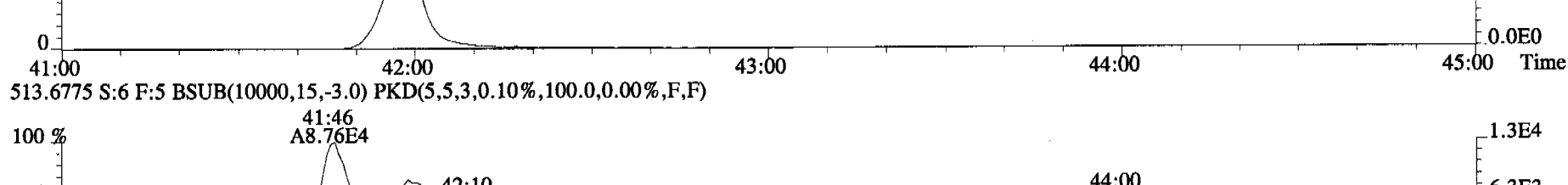
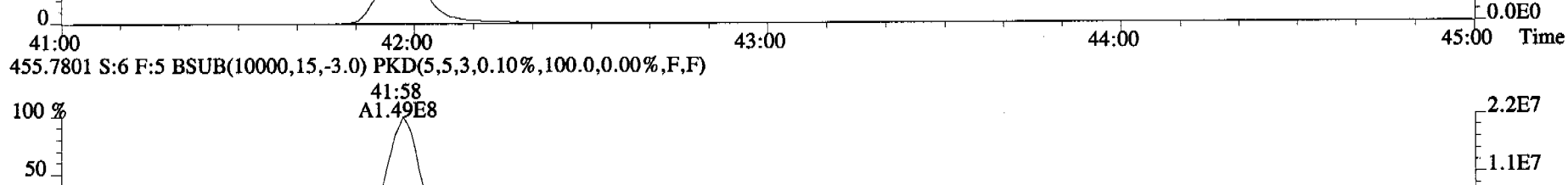
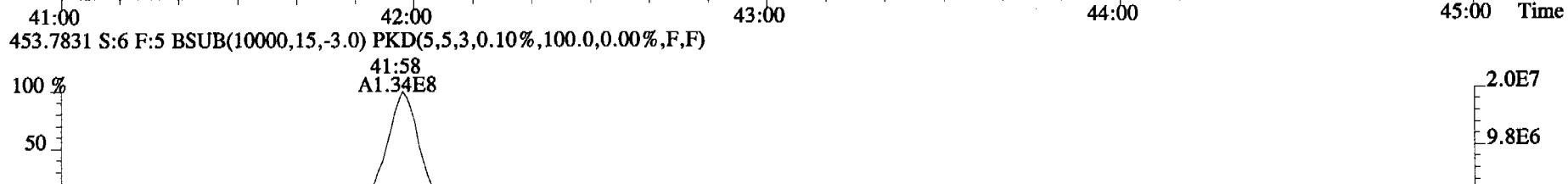
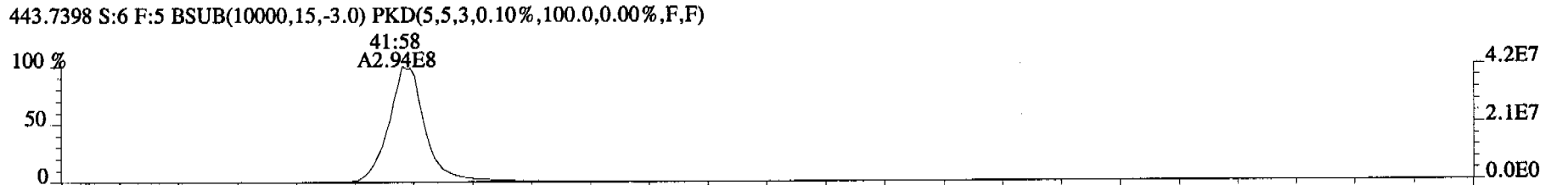
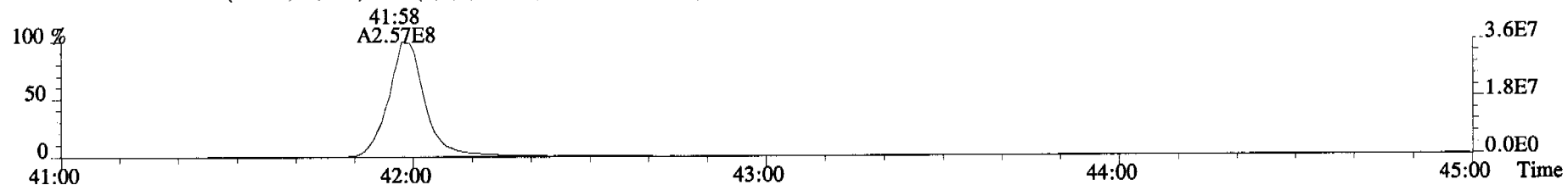


479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

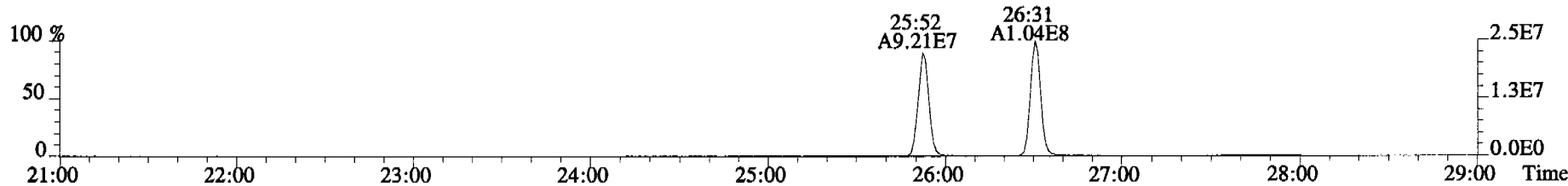
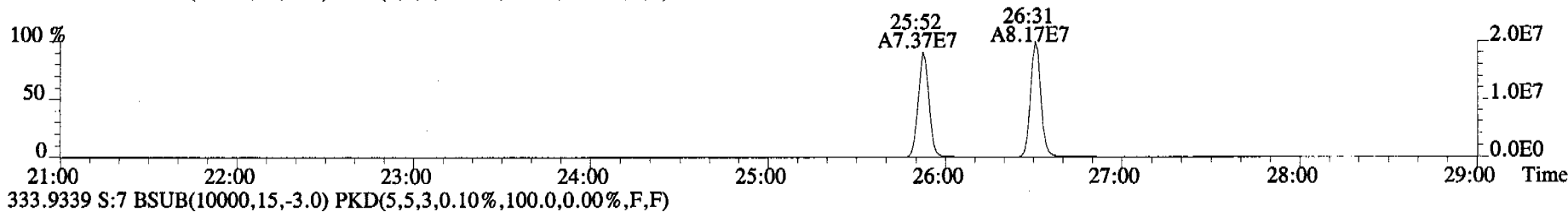
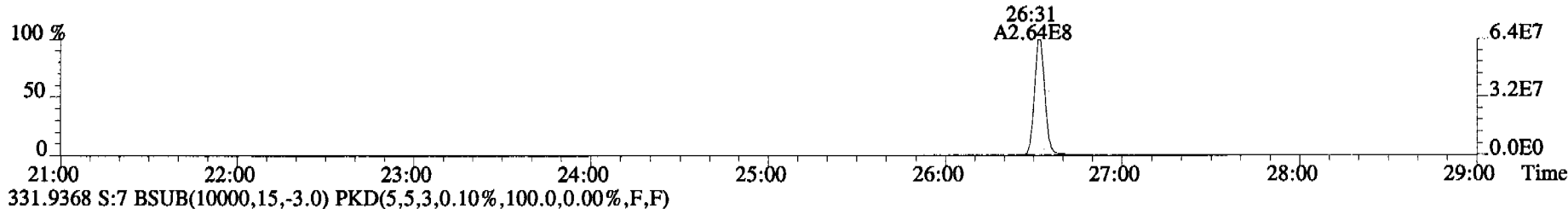
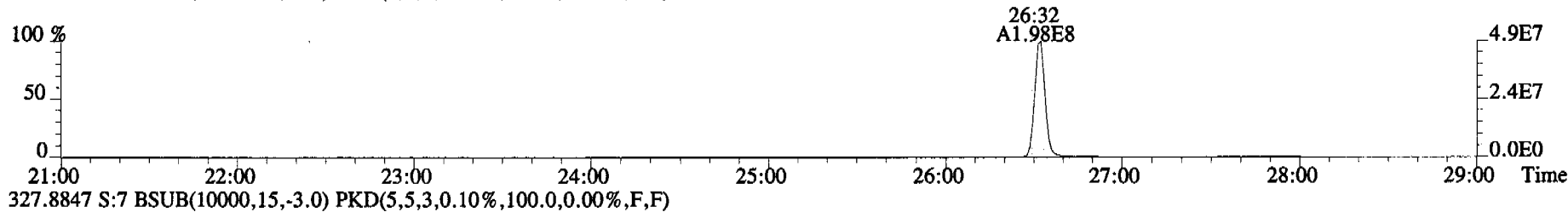
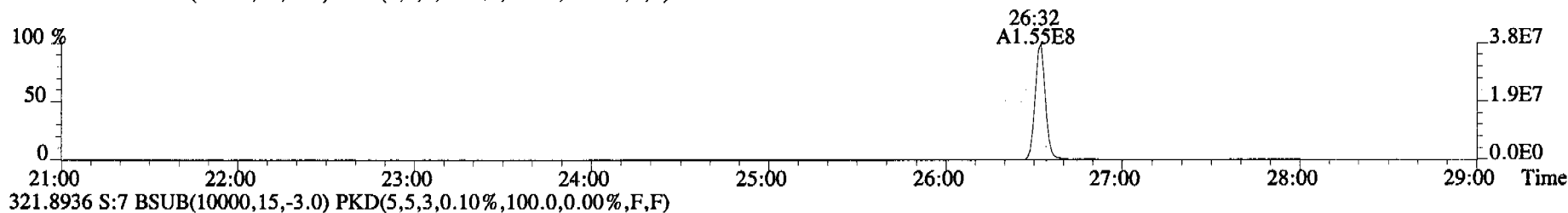




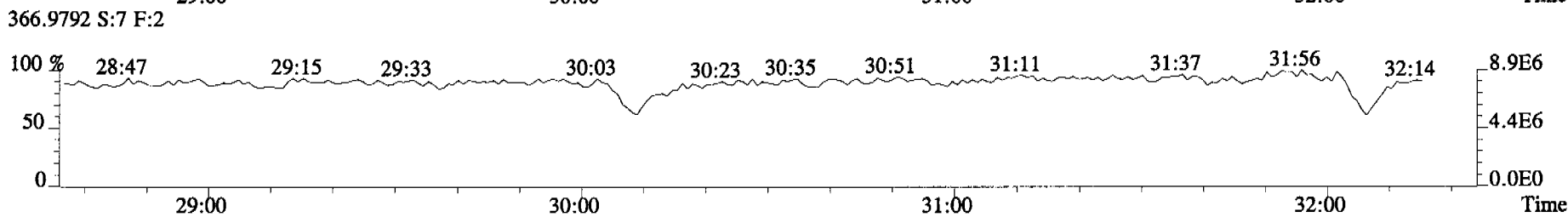
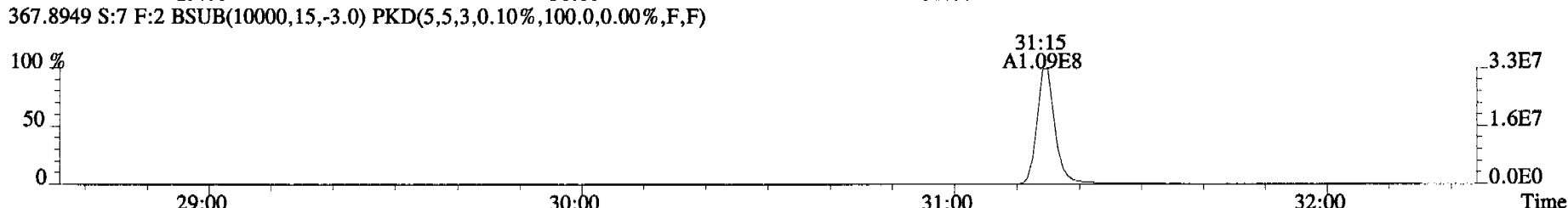
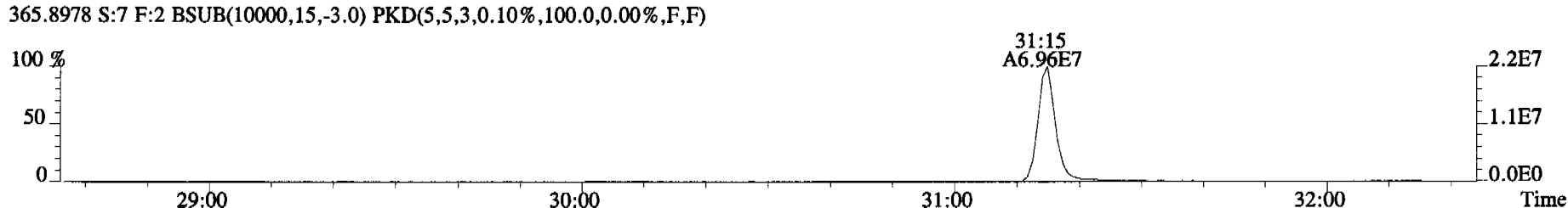
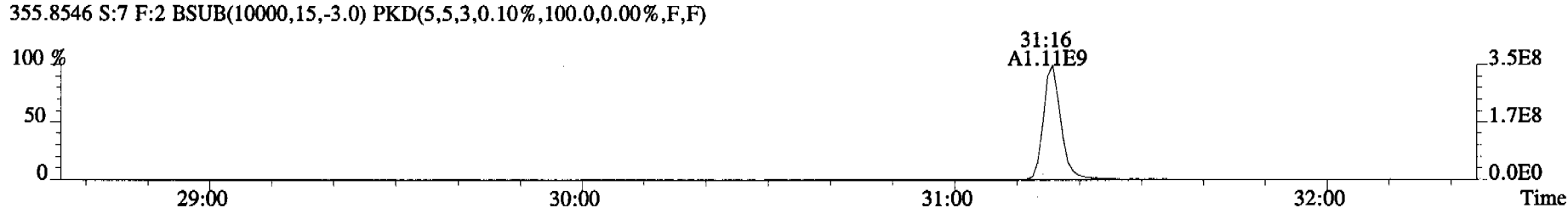
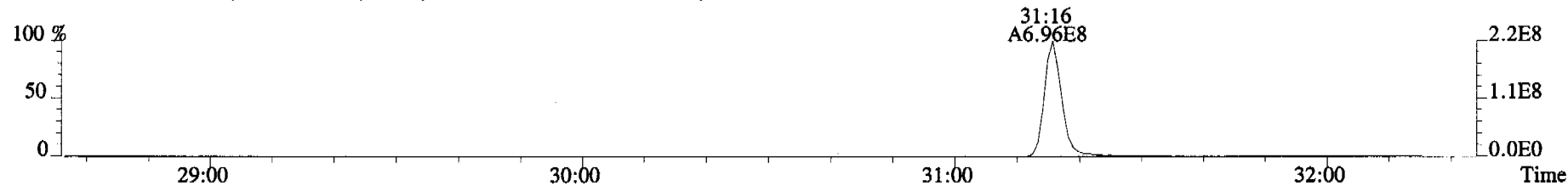
File:060322C1 #1-345 Acq:22-MAR-2006 13:41:25 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#6 File Text:Alta Analytical Laboratory Text:ST060322C1-5 1613 CS4 0601101 Exp:OCDD\_DB5  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



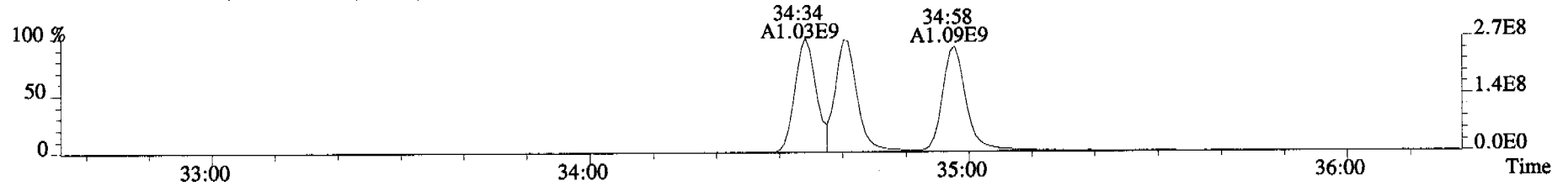
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



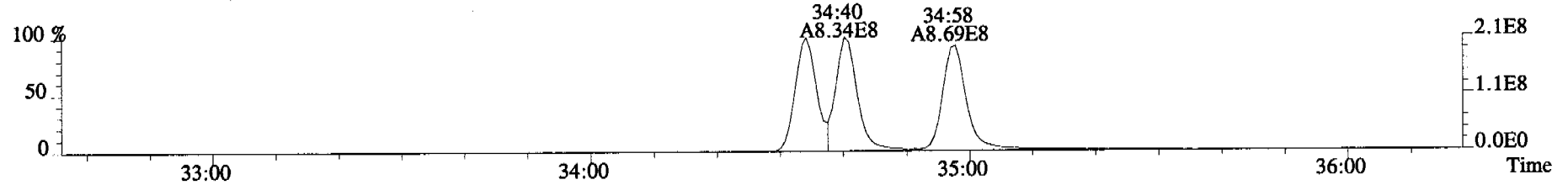
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



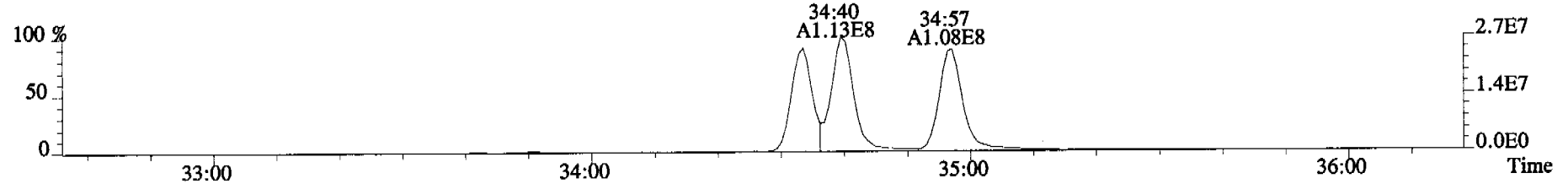
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



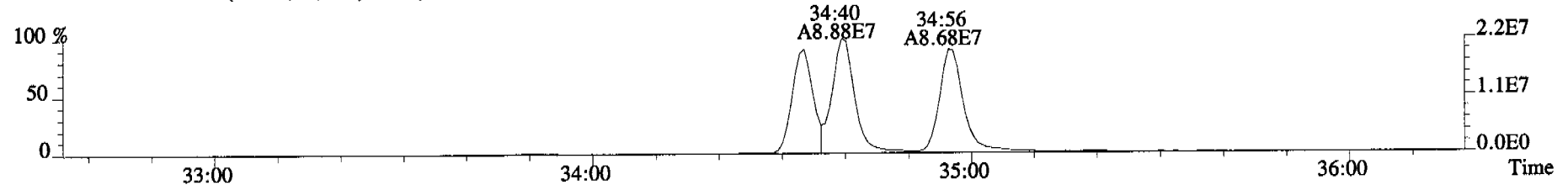
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



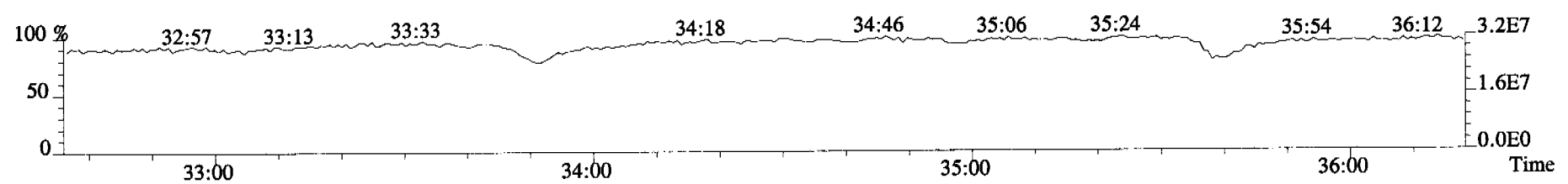
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



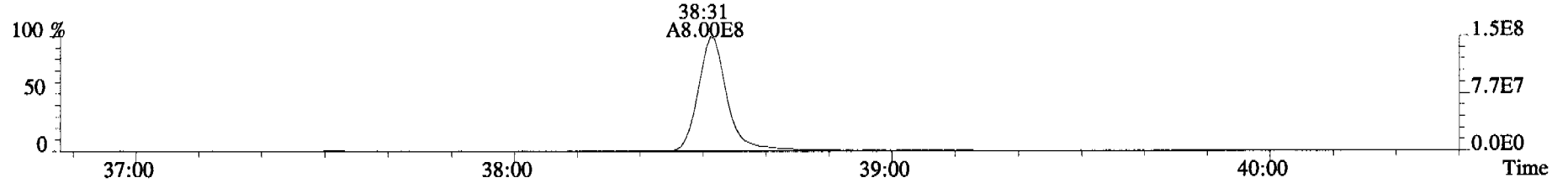
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



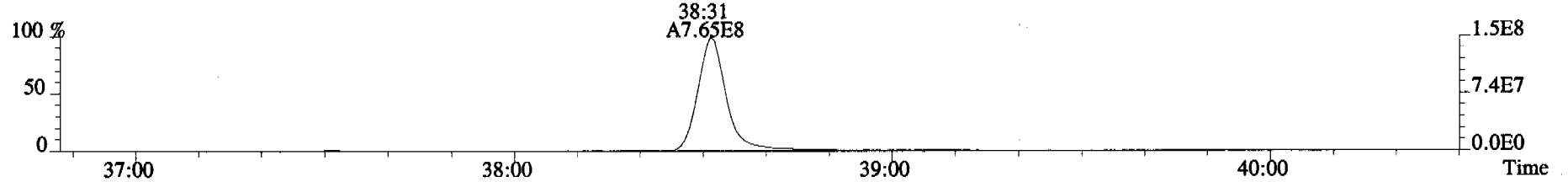
380.9760 S:7 F:3



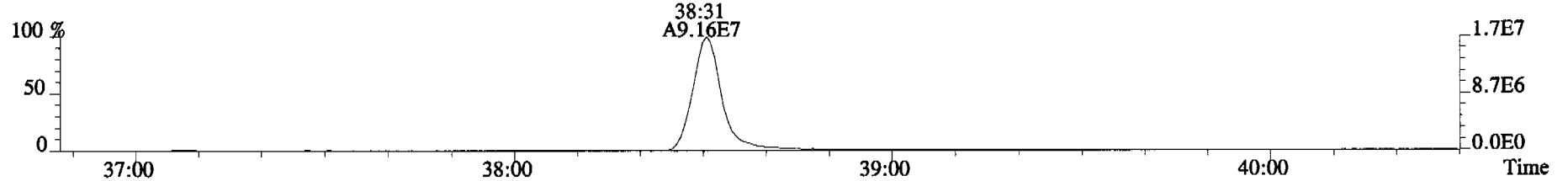
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



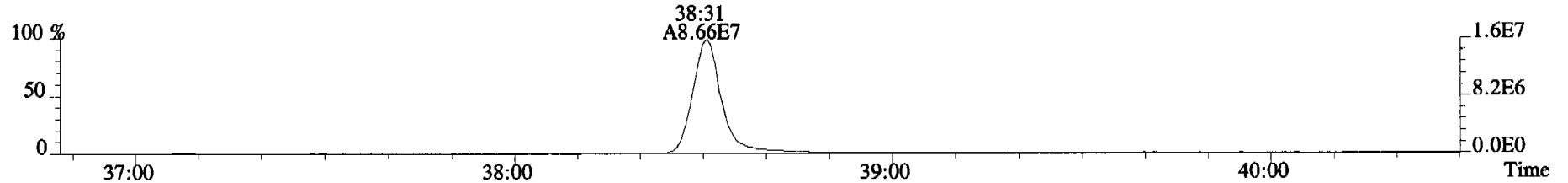
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



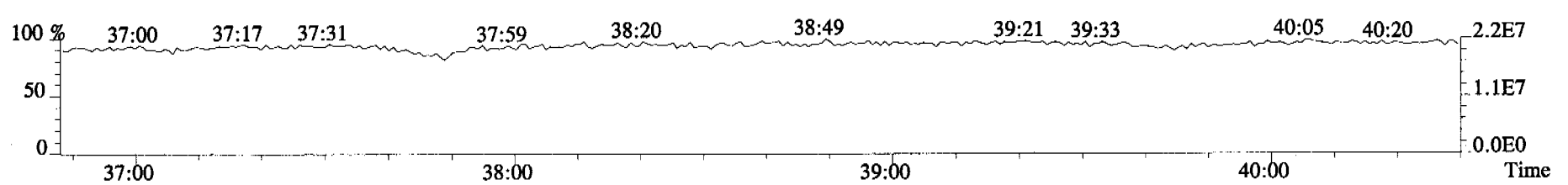
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



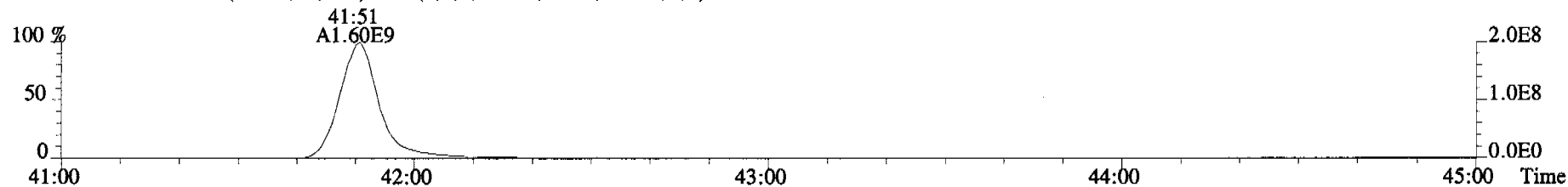
437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



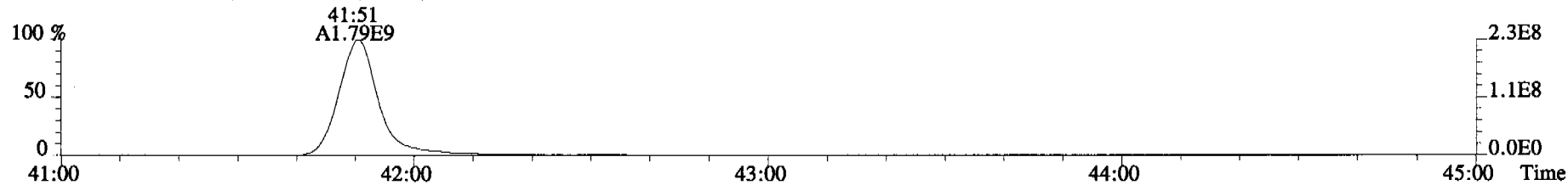
430.9728 S:7 F:4



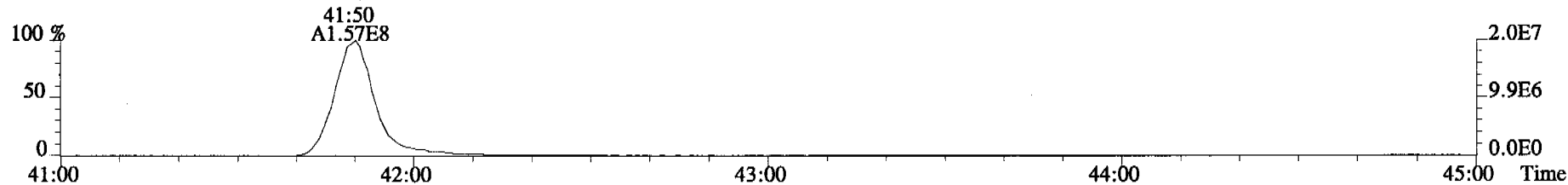
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



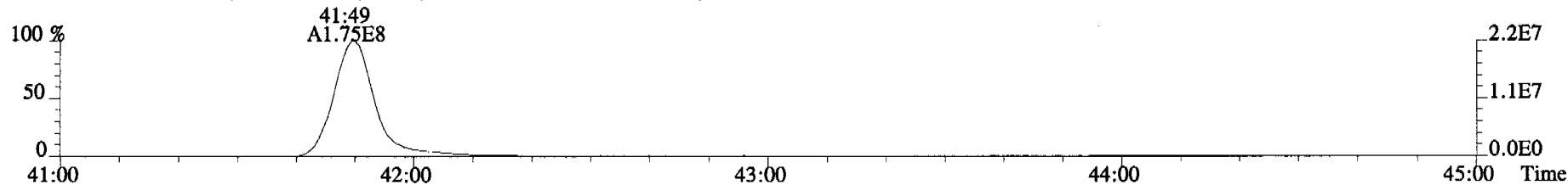
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



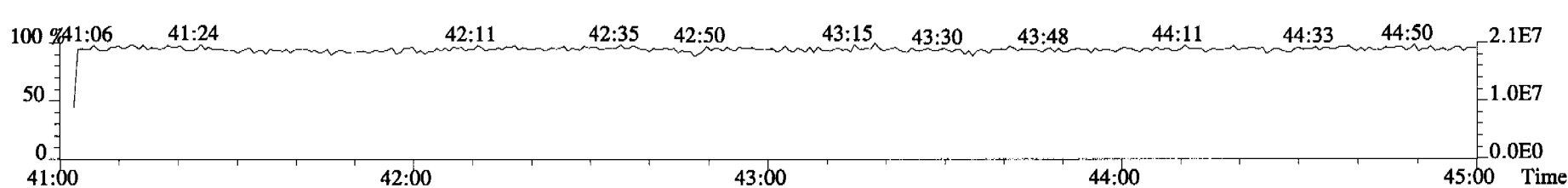
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



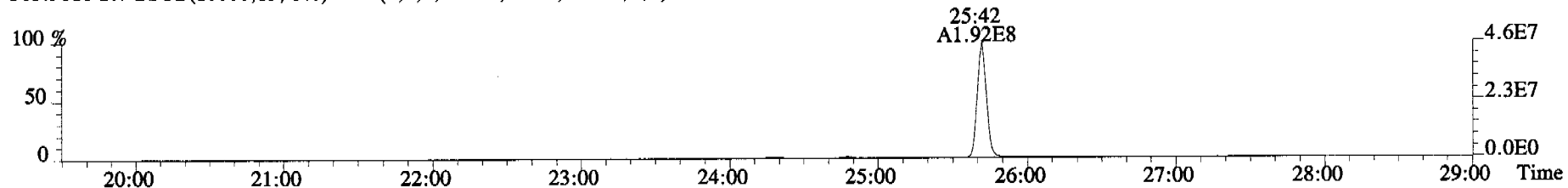
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



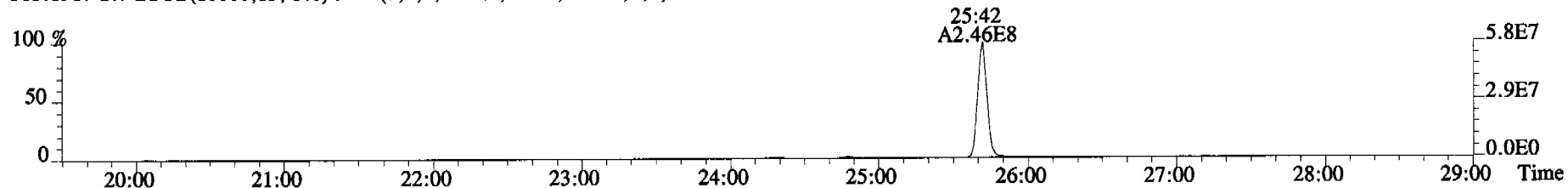
454.9728 S:7 F:5



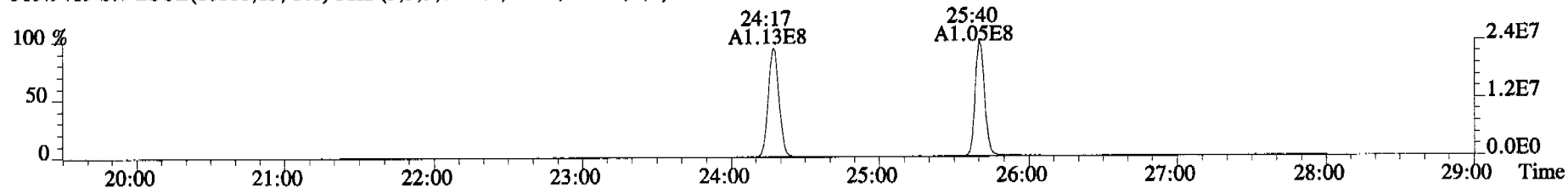
File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



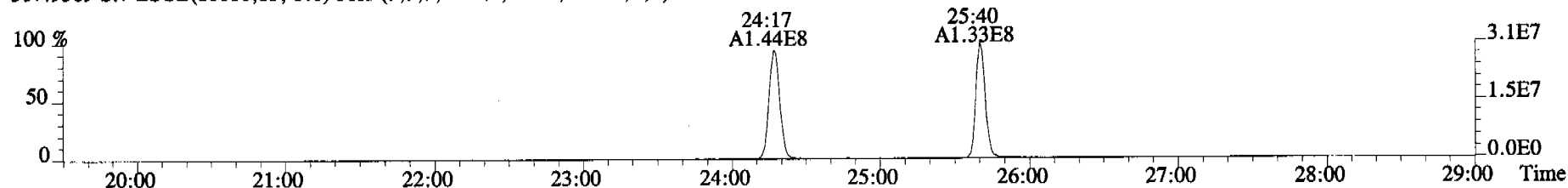
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



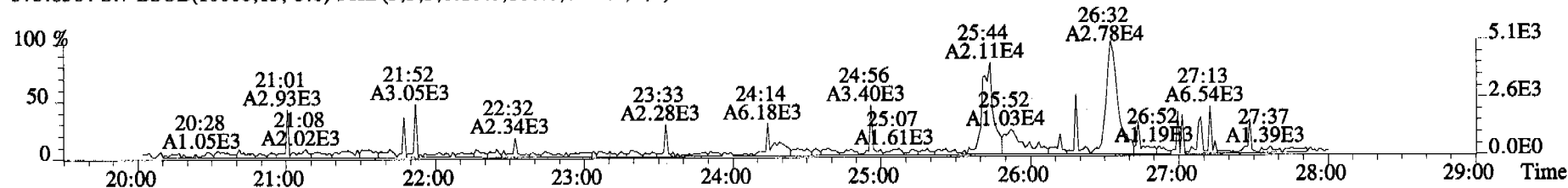
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



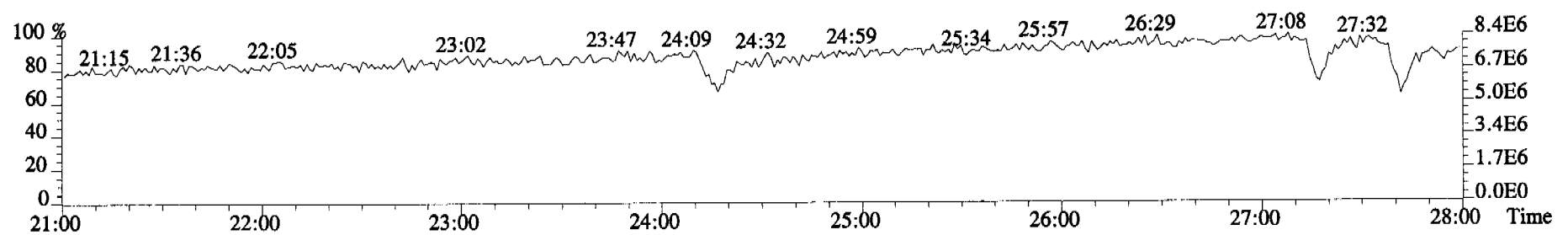
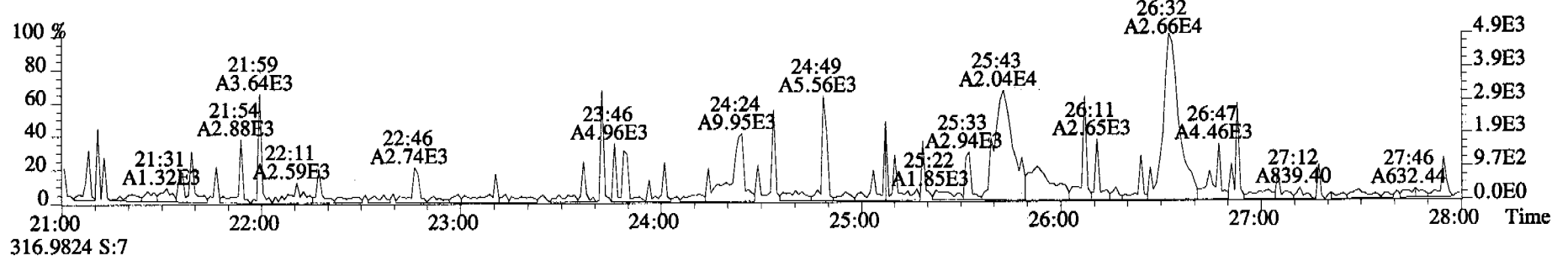
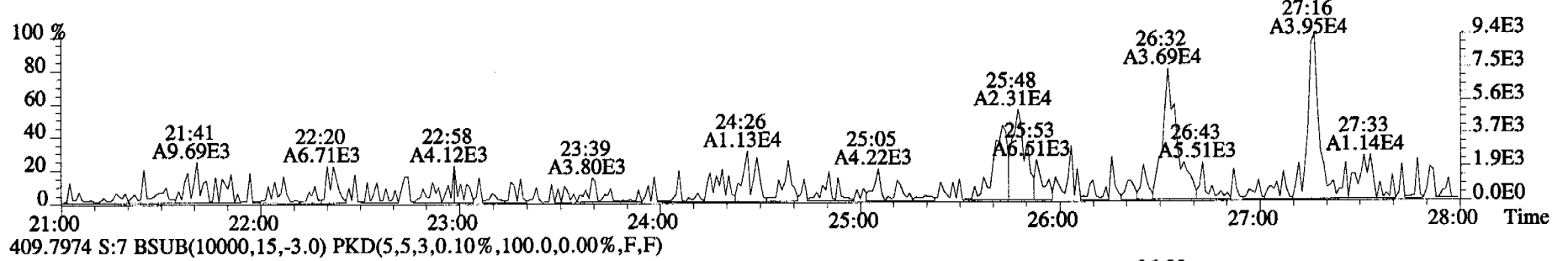
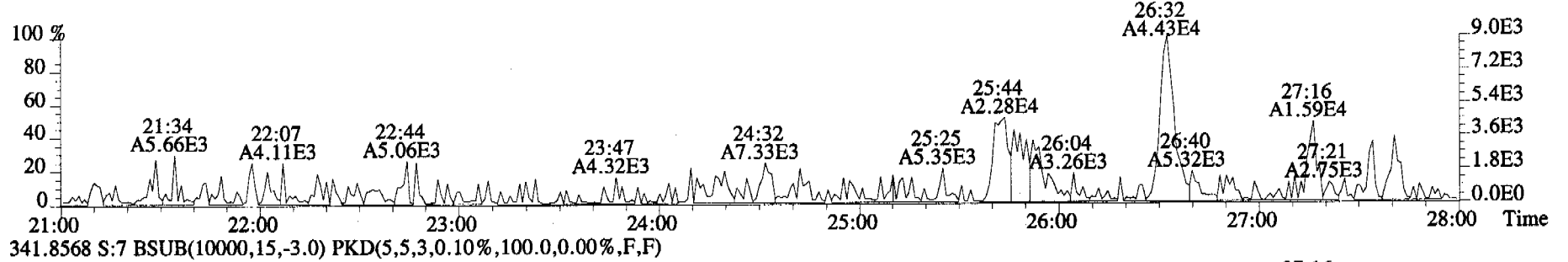
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

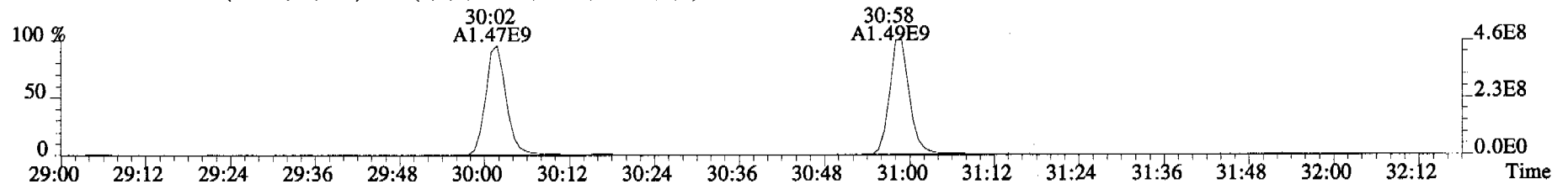


File:060322C1 #1-513 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

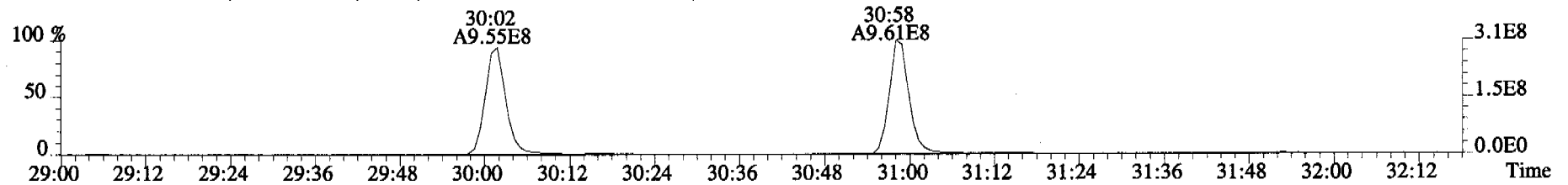




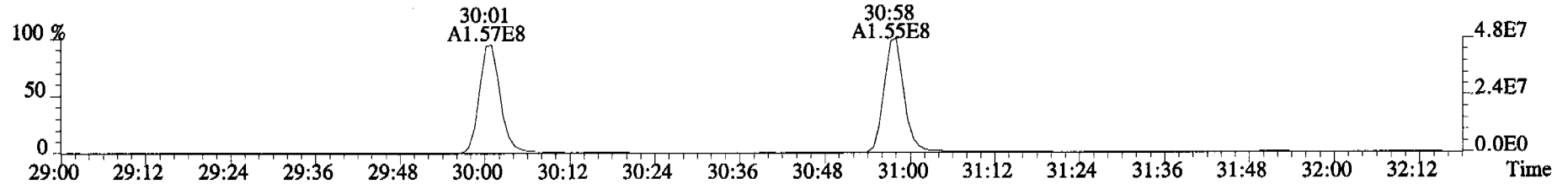
File:060322C1 #1-316 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
339.8597 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



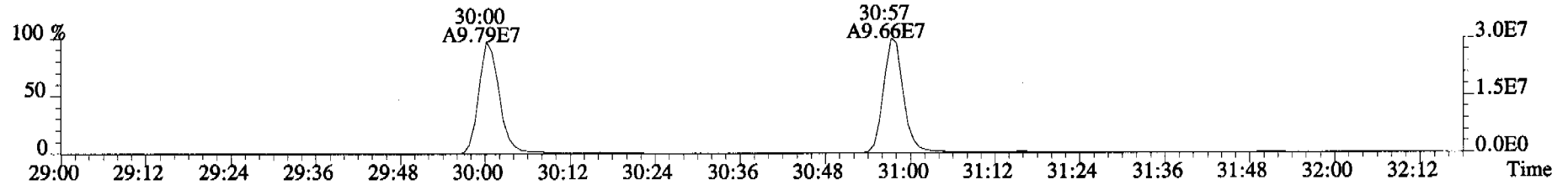
341.8568 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



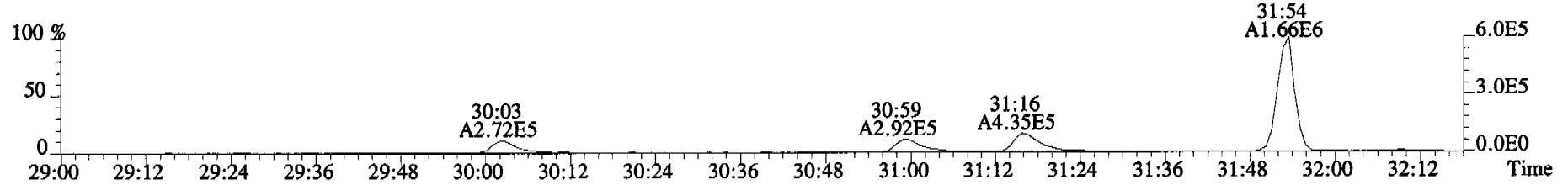
351.9000 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



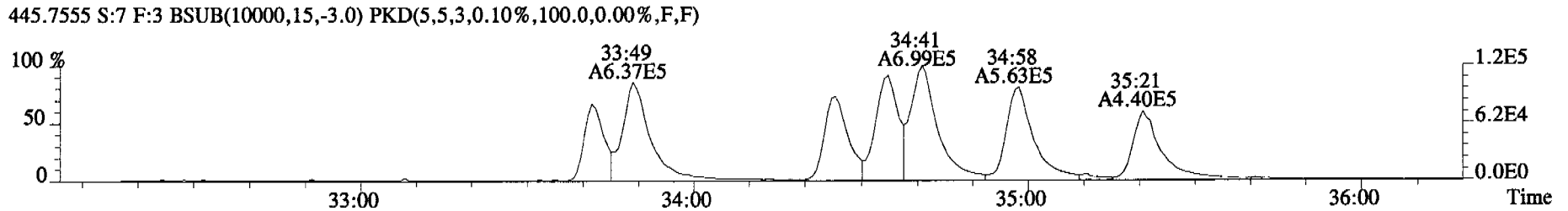
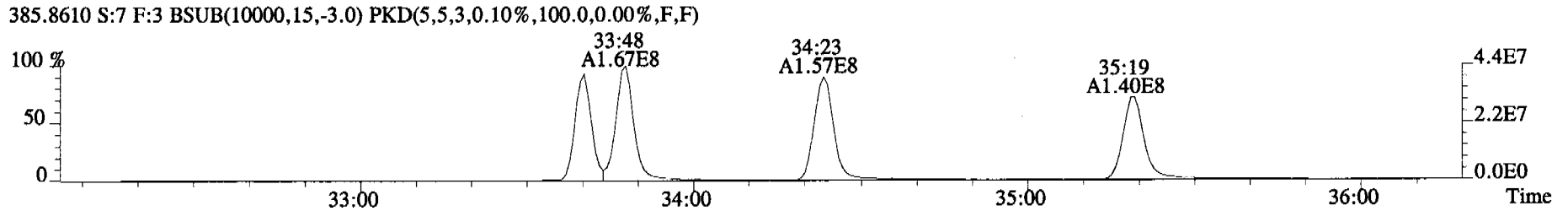
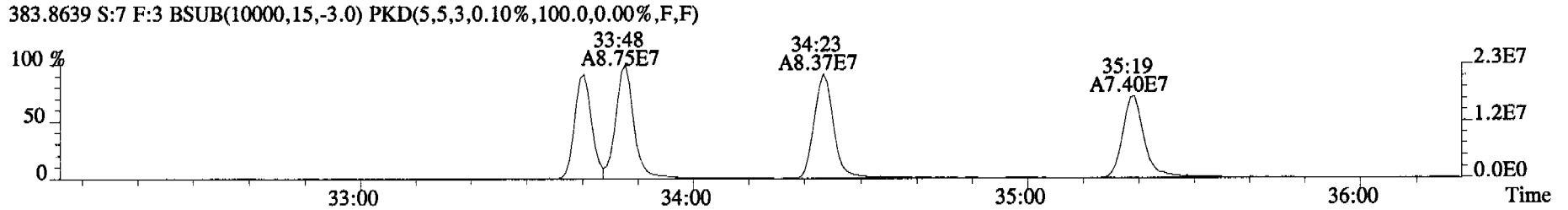
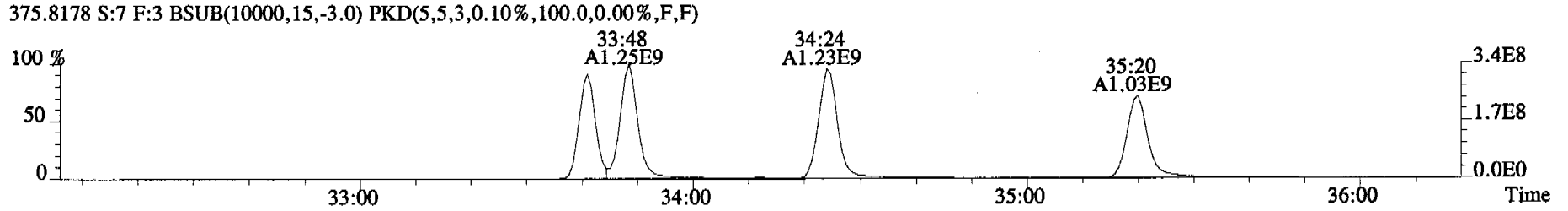
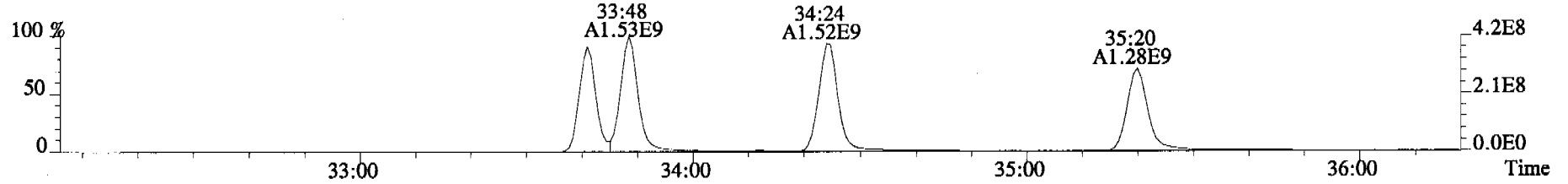
353.8970 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



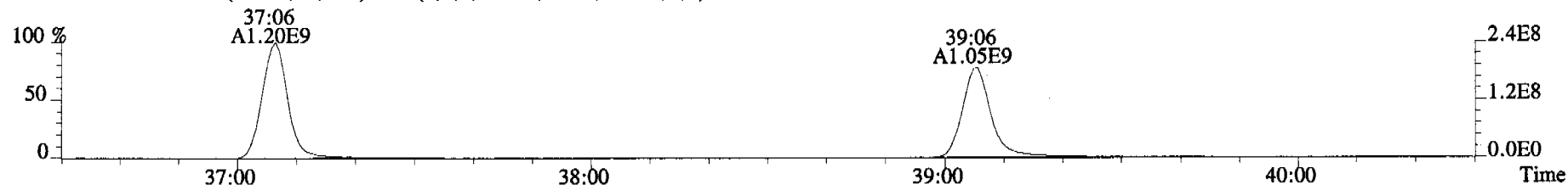
409.7974 S:7 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



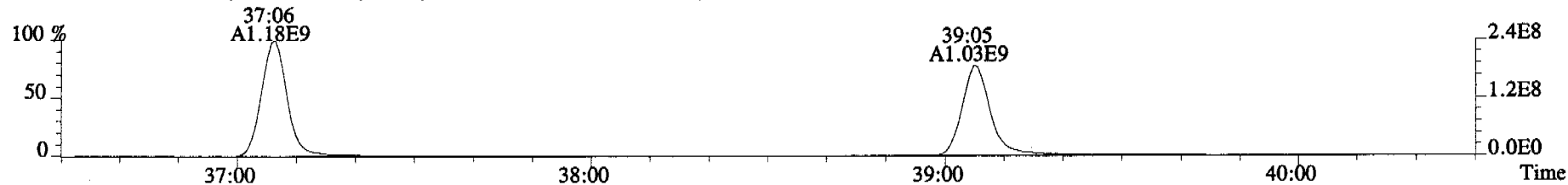
File:060322C1 #1-378 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



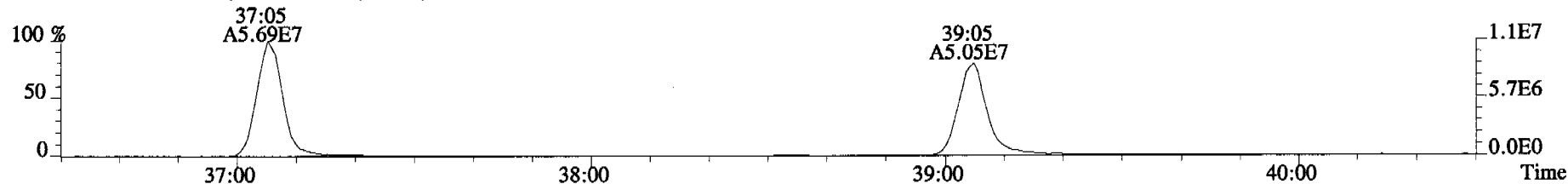
File:060322C1 #1-400 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



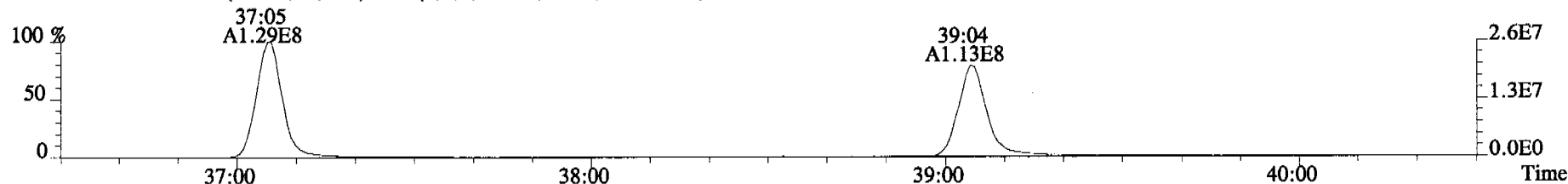
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



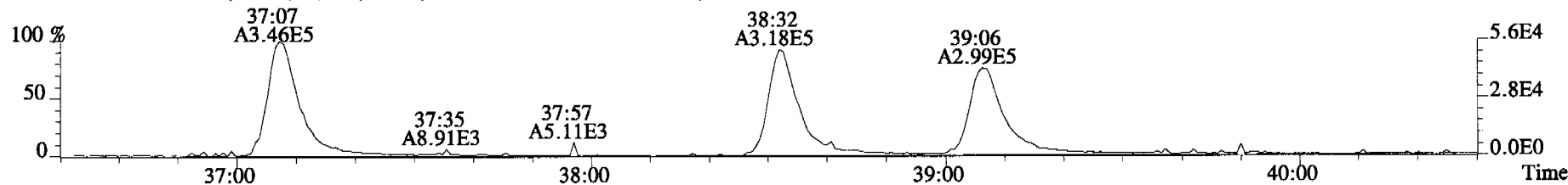
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



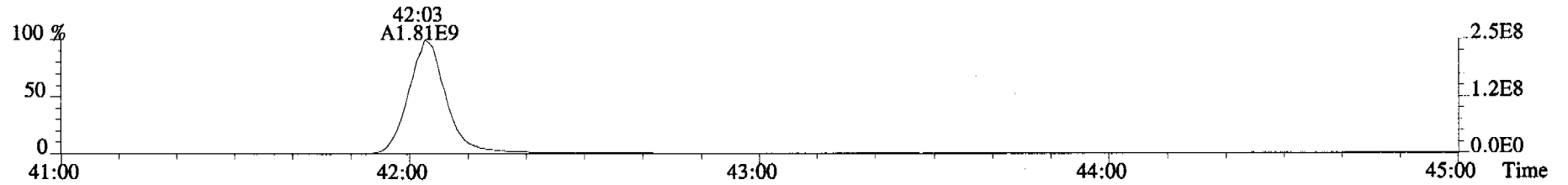
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



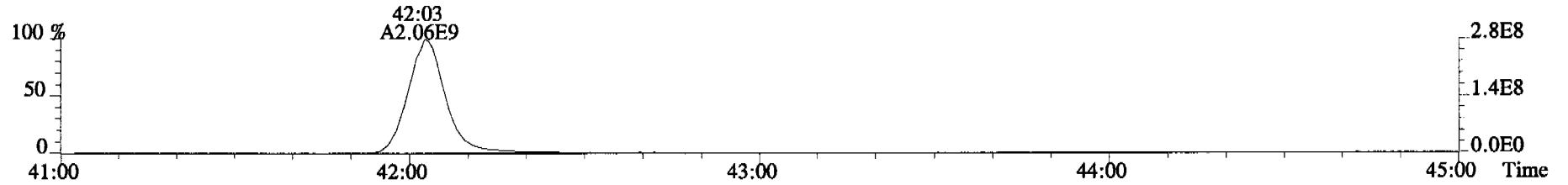
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



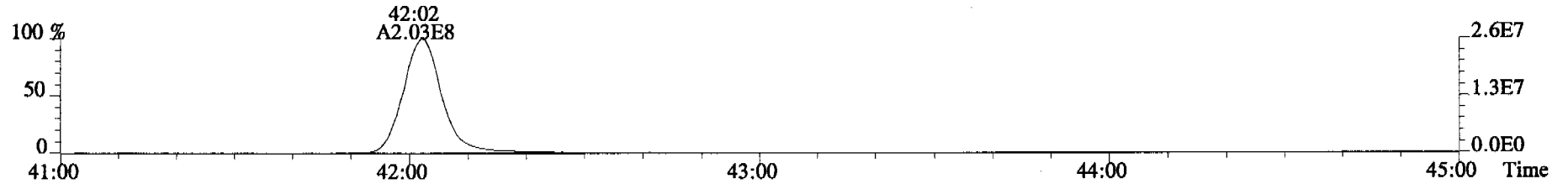
File:060322C1 #1-345 Acq:22-MAR-2006 14:31:06 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#7 File Text:Alta Analytical Laboratory Text:ST060322C1-6 1613 CS5 060110J Exp:OCDD\_DB5  
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



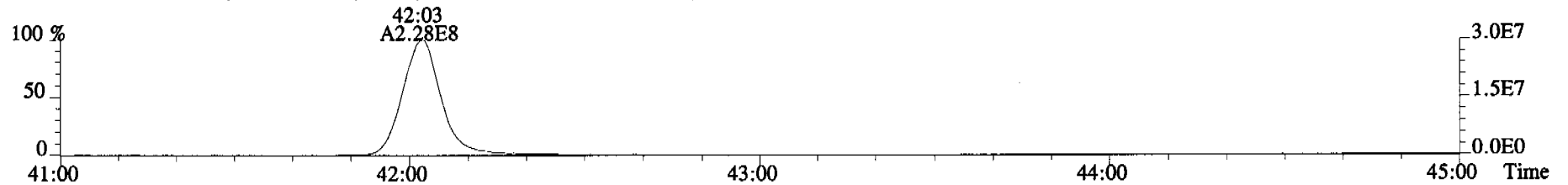
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



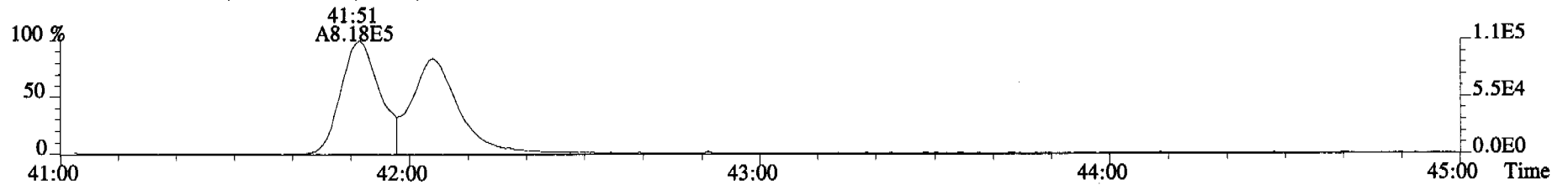
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

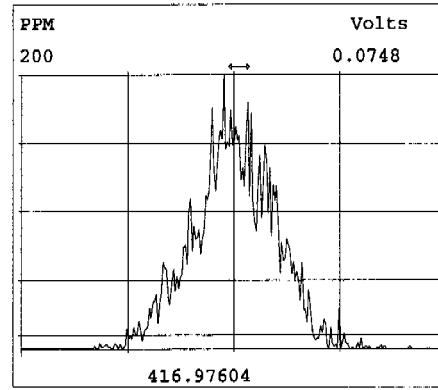
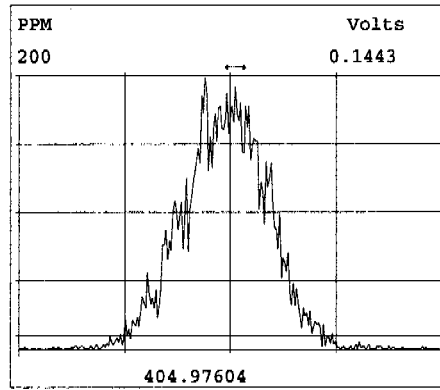
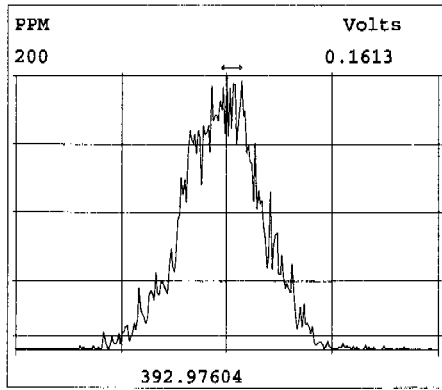
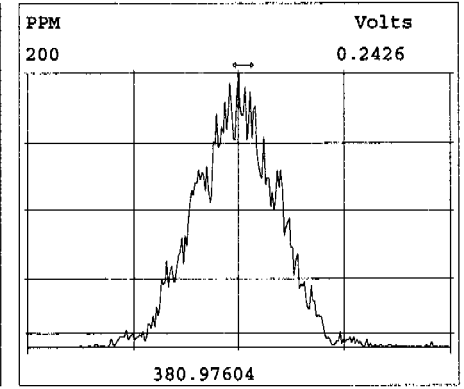
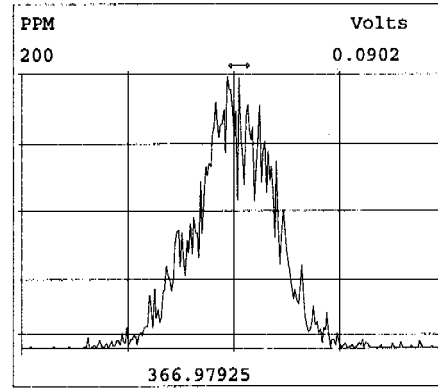
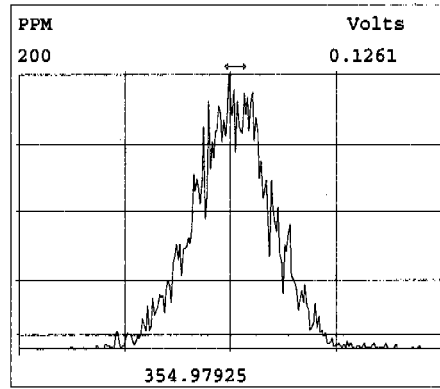
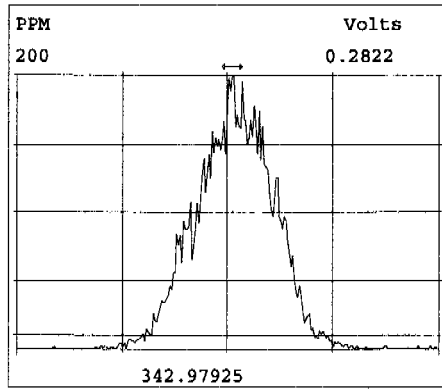
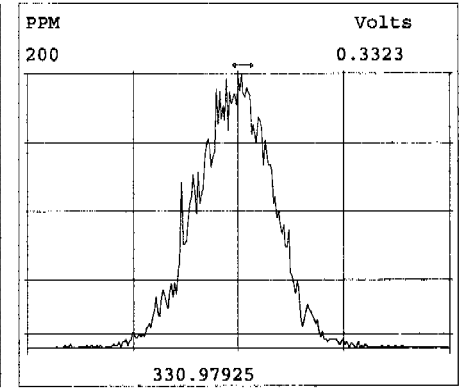
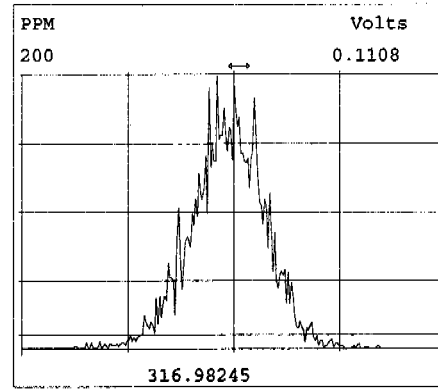
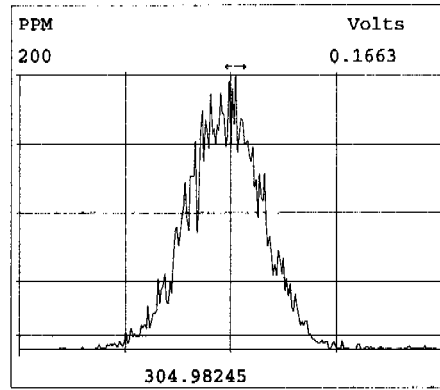
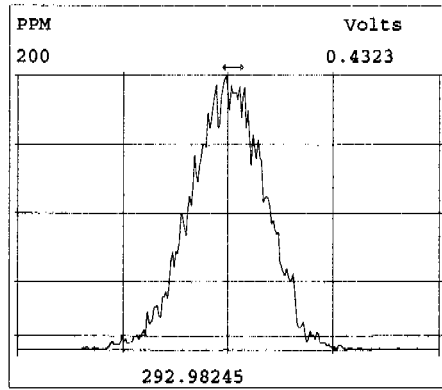


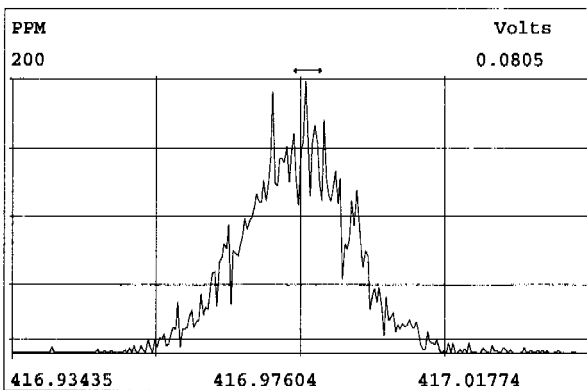
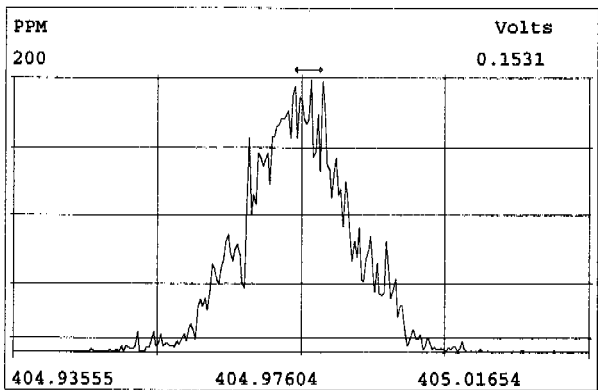
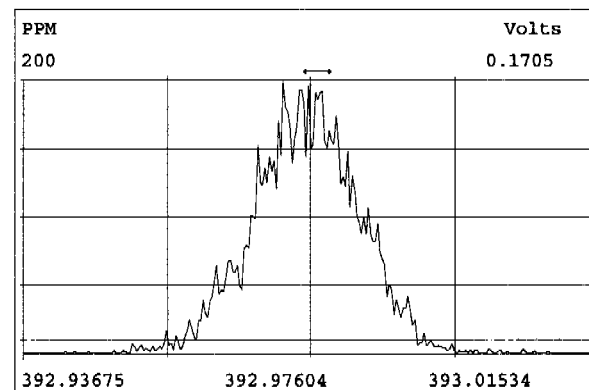
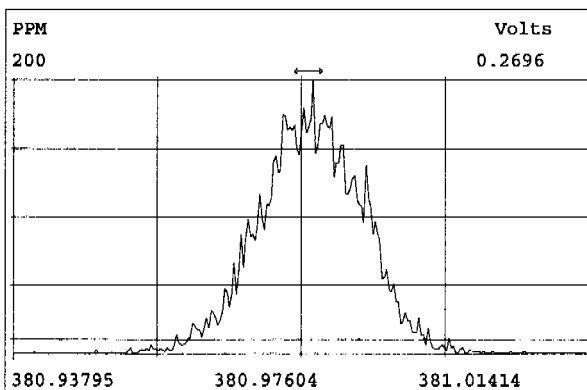
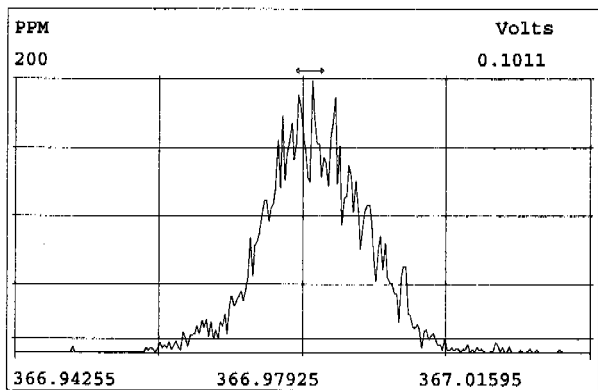
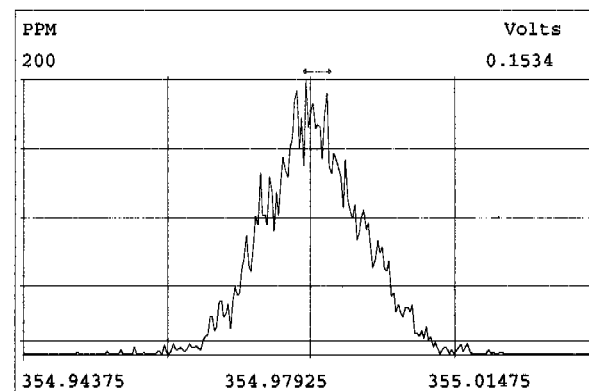
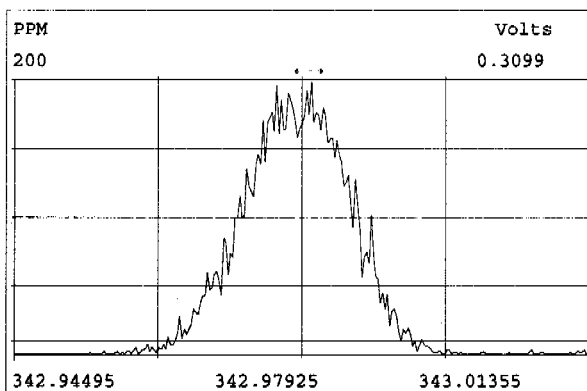
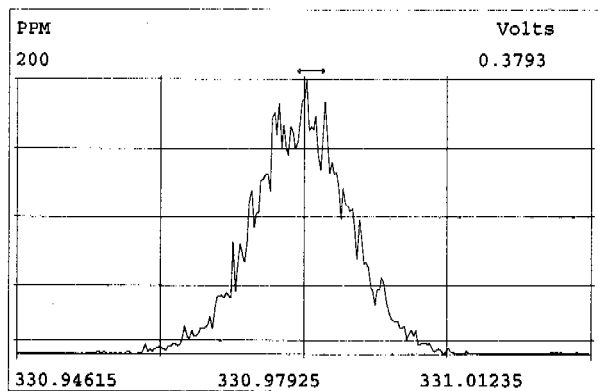
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

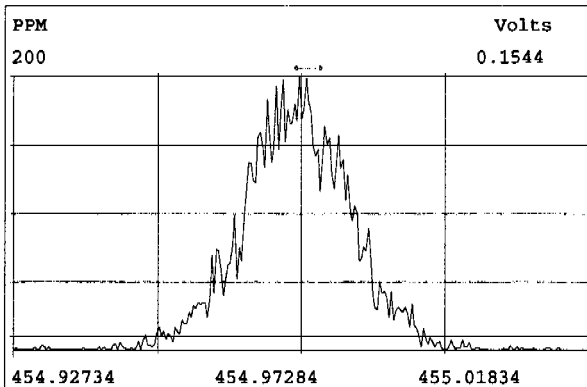
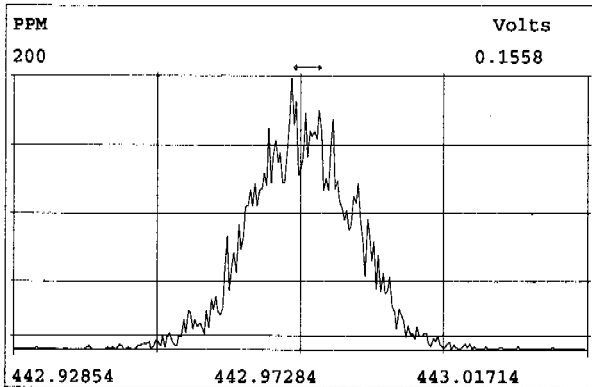
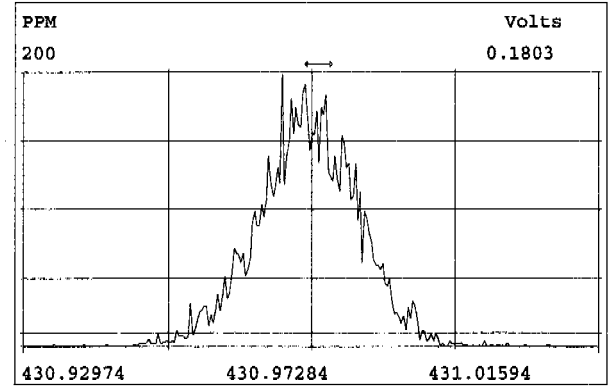
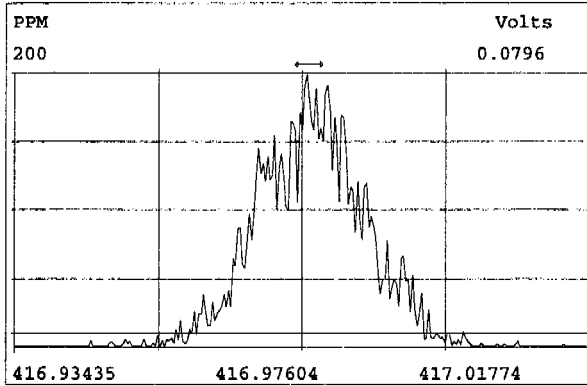
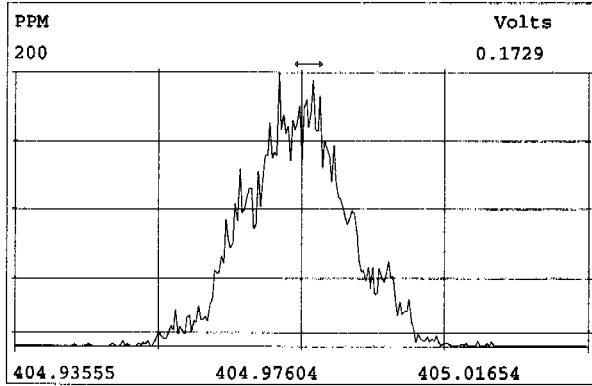
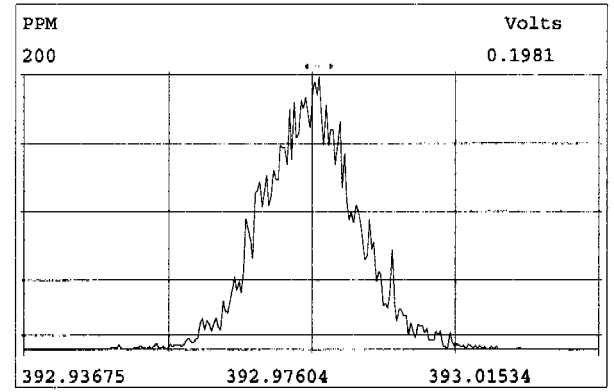
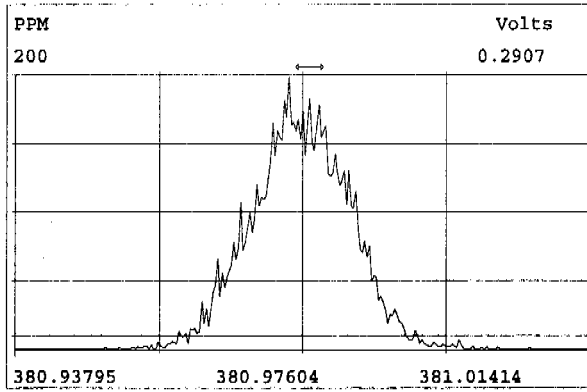
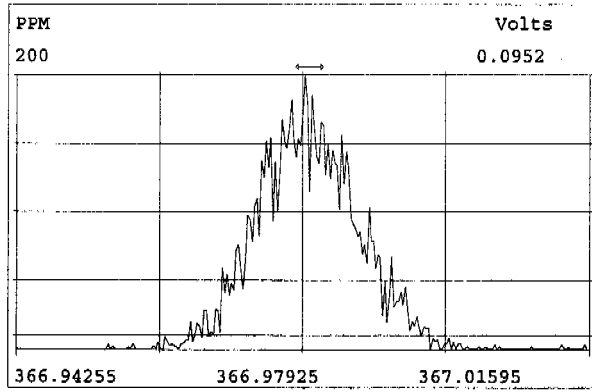


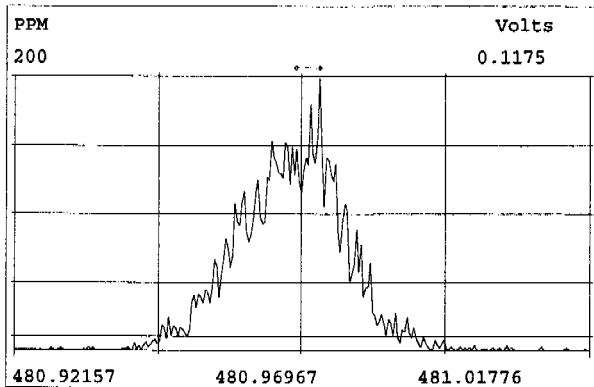
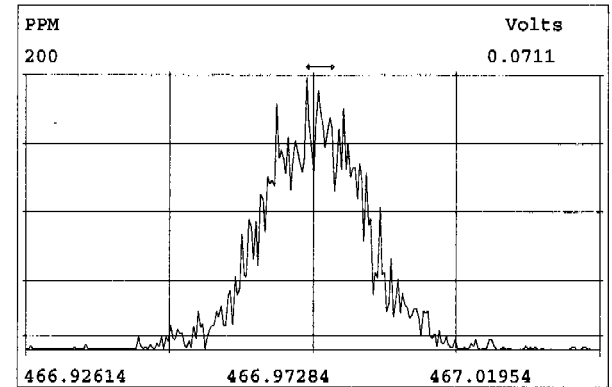
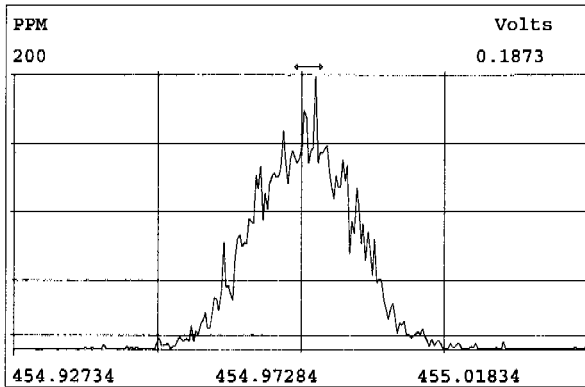
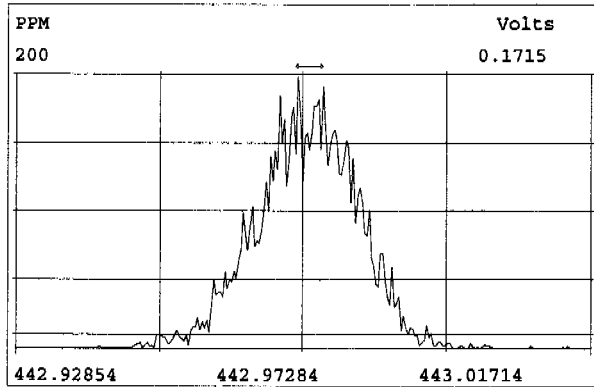
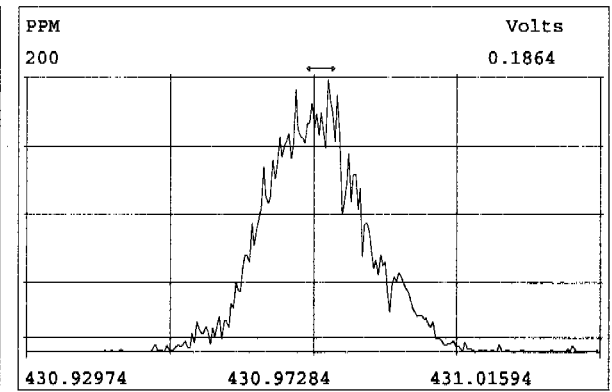
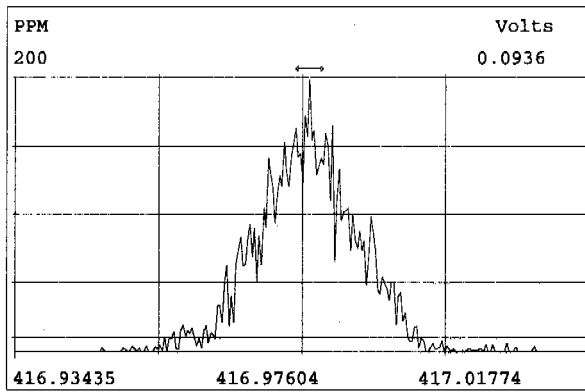
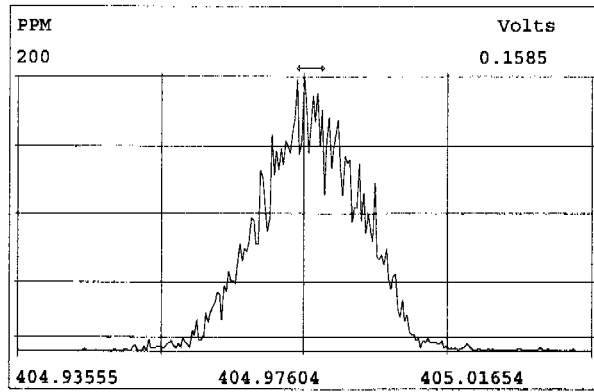
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



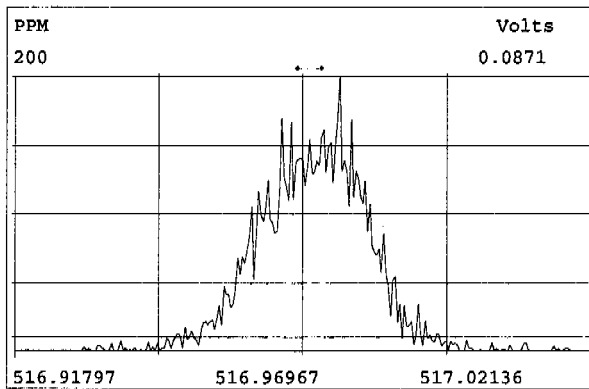
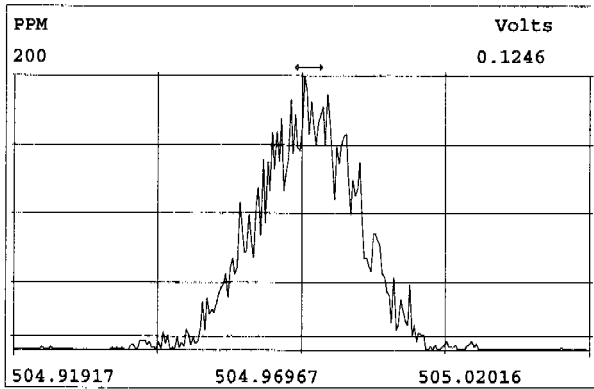
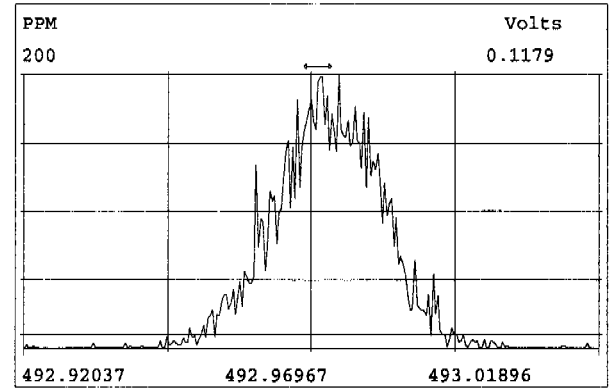
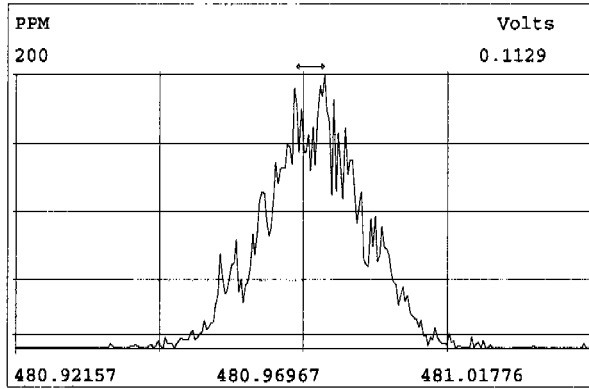
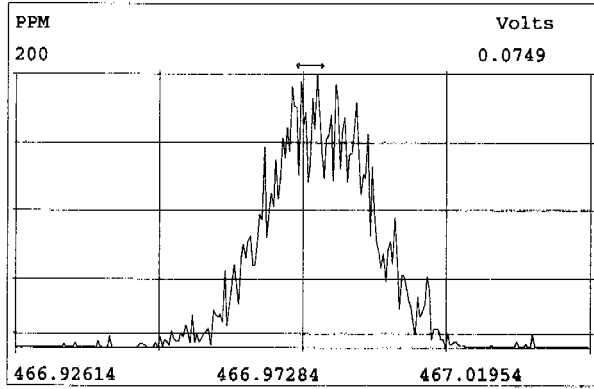
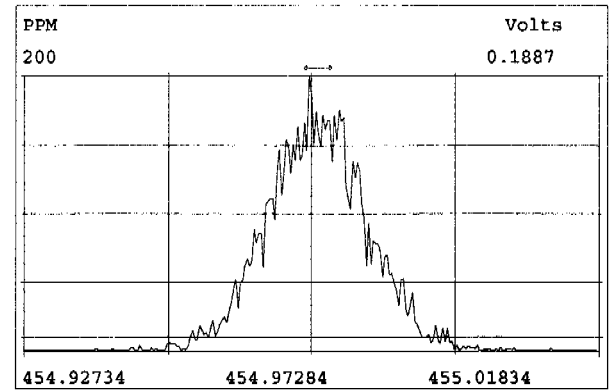
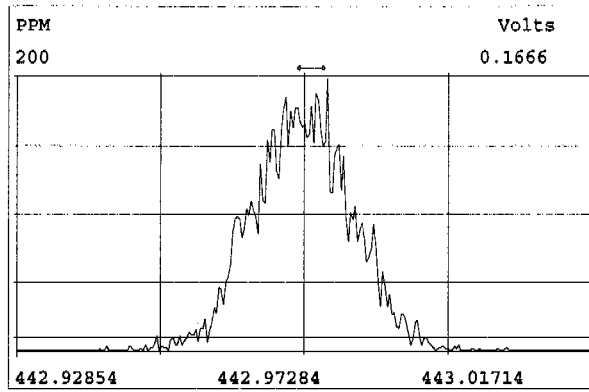
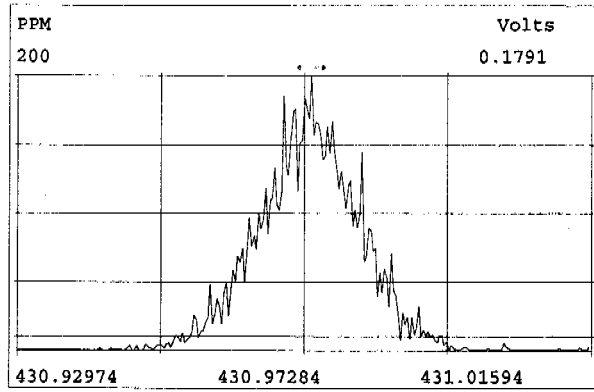












| Name                        | Resp     | RA     | RRF  | RT           | Conc   | Qual | noise | Fac | DL | Name                | Conc   | EMPC   | Qual | noise | DL |
|-----------------------------|----------|--------|------|--------------|--------|------|-------|-----|----|---------------------|--------|--------|------|-------|----|
| 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 | *  |                     |        |        |      |       |    |
|                             |          |        |      |              |        |      |       |     |    | Rec                 | Qual   |        |      |       |    |
| IS 13C-2,3,7,8-TCDD         | 1.57e+08 | 0.78 y | 1.09 | 26:32        | 94.685 |      |       |     |    | 94.7                |        |        |      |       |    |
| IS 13C-1,2,3,7,8-PeCDD      | 1.56e+08 | 0.64 y | 1.04 | 31:16        | 98.317 |      |       |     |    | 98.3                |        |        |      |       |    |
| IS 13C-1,2,3,4,7,8-HxCDD    | 1.34e+08 | 1.27 y | 0.83 | 34:34        | 100.36 |      |       |     |    | 100                 |        |        |      |       |    |
| IS 13C-1,2,3,6,7,8-HxCDD    | 1.59e+08 | 1.28 y | 1.04 | 34:40        | 95.078 |      |       |     |    | 95.1                |        |        |      |       |    |
| IS 13C-1,2,3,4,6,7,8-HpCDD  | 1.43e+08 | 1.08 y | 0.85 | 38:31        | 104.81 |      |       |     |    | 105                 |        |        |      |       |    |
| IS 13C-OCDD                 | 2.59e+08 | 0.90 y | 0.71 | 41:50        | 225.79 |      |       |     |    | 113                 |        |        |      |       |    |
| IS 13C-2,3,7,8-TCDF         | 2.12e+08 | 0.80 y | 0.96 | 25:42        |        |      |       |     |    | +94.0               |        |        |      |       |    |
| IS 13C-1,2,3,7,8-PeCDF      | 2.14e+08 | 1.59 y | 1.02 | 30:02        |        |      |       |     |    | +89.2               |        |        |      |       |    |
| IS 13C-2,3,4,7,8-PeCDF      | 2.29e+08 | 1.59 y | 1.02 | 30:59        |        |      |       |     |    | +95.5               |        |        |      |       |    |
| IS 13C-1,2,3,4,7,8-HxCDF    | 1.84e+08 | 0.51 y | 1.14 | 33:41        | 99.916 |      |       |     |    | 99.9                |        |        |      |       |    |
| IS 13C-1,2,3,6,7,8-HxCDF    | 2.27e+08 | 0.52 y | 1.40 | 33:49        | 100.76 |      |       |     |    | 101                 |        |        |      |       |    |
| IS 13C-2,3,4,6,7,8-HxCDF    | 2.01e+08 | 0.52 y | 1.26 | 34:24        | 99.050 |      |       |     |    | 99.0                |        |        |      |       |    |
| IS 13C-1,2,3,7,8,9-HxCDF    | 1.72e+08 | 0.52 y | 1.08 | 35:20        | 98.961 |      |       |     |    | 99.0                |        |        |      |       |    |
| IS 13C-1,2,3,4,6,7,8-HpCDF  | 1.46e+08 | 0.43 y | 0.93 | 37:08        | 97.155 |      |       |     |    | 97.2                |        |        |      |       |    |
| IS 13C-1,2,3,4,7,8,9-HpCDF  | 1.27e+08 | 0.43 y | 0.77 | 39:03        | 102.95 |      |       |     |    | 103                 |        |        |      |       |    |
| IS 13C-OCDF                 | *        | * n    | 0.94 | Not F $\eta$ | *      |      |       |     |    | *                   |        |        |      |       |    |
| 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 | Not F $\eta$ | *      |      |       |     |    |                     |        |        |      |       |    |
| RS/RT 13C-1,2,3,7,8,9-HxCDD | 1.61e+08 | 1.27 y | 1.00 | 34:57        | 100.00 |      |       |     |    |                     |        |        |      |       |    |

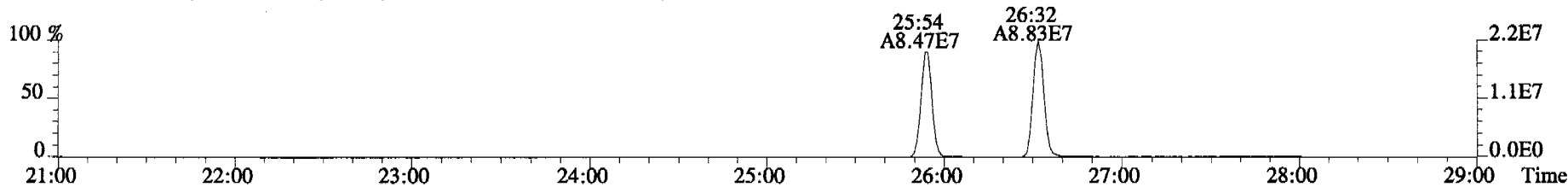
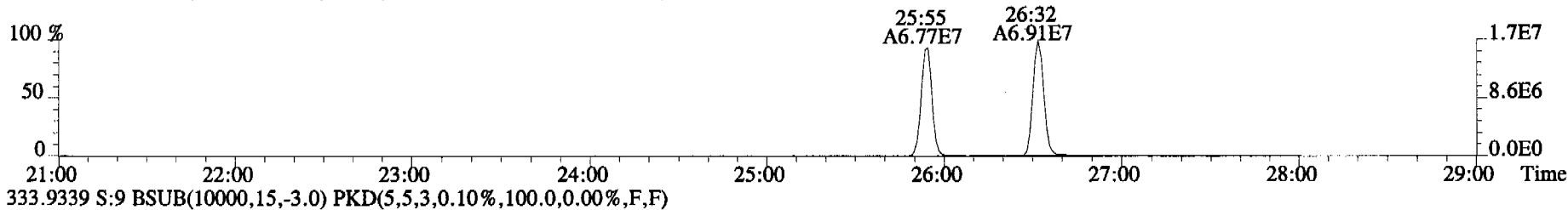
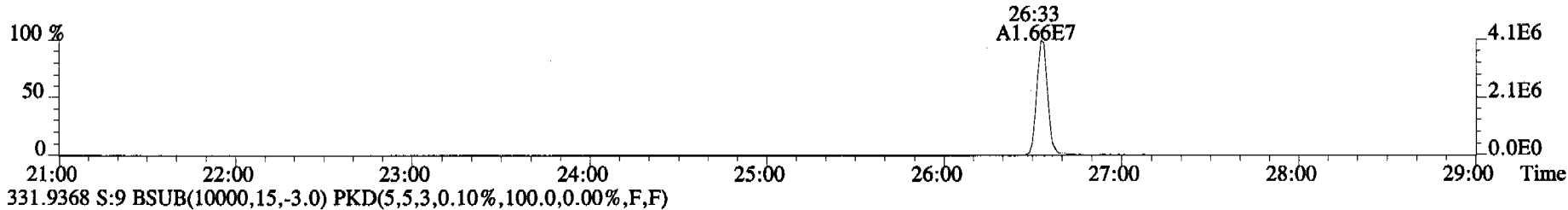
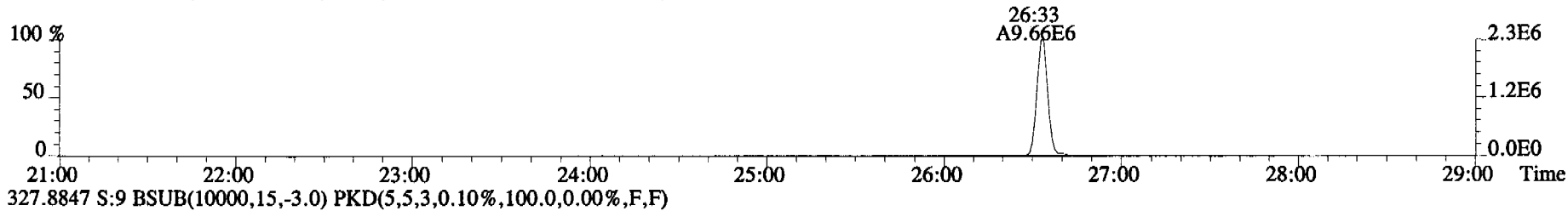
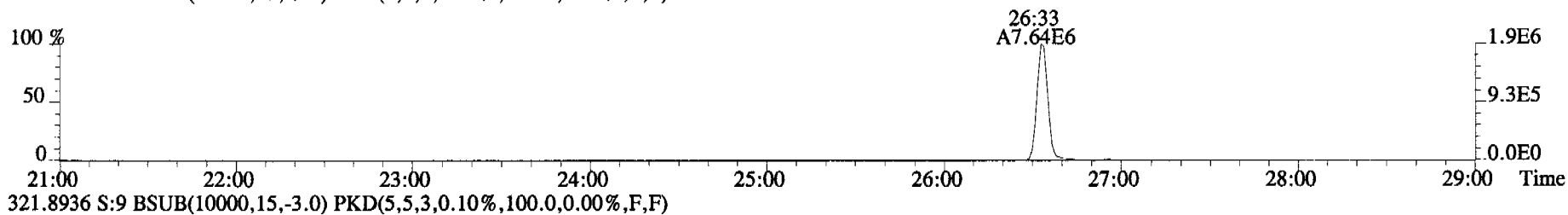
\*98.84 Daily RRF = 1.19 using OCDD

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

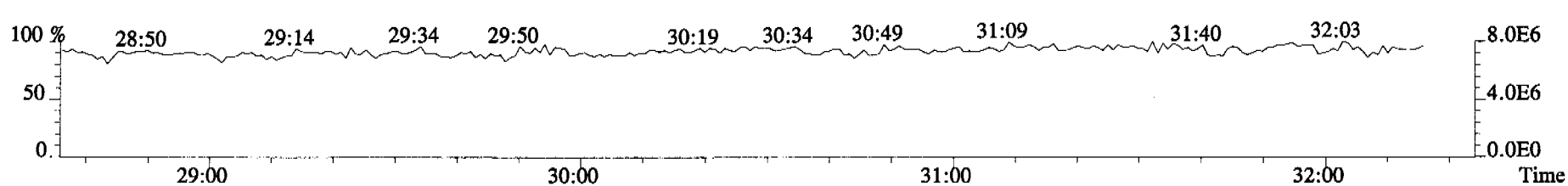
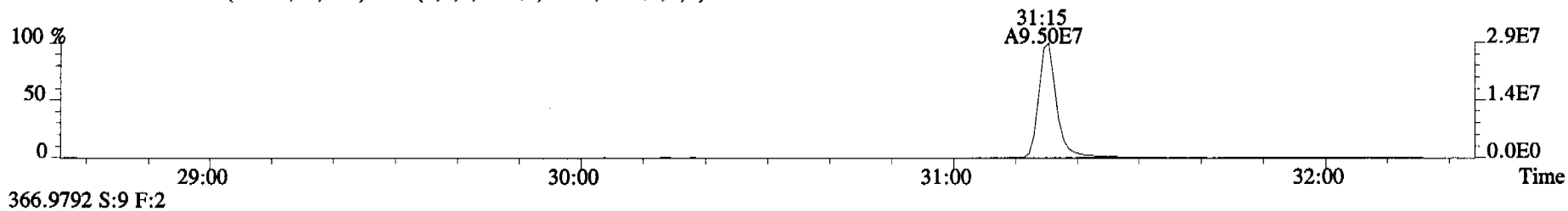
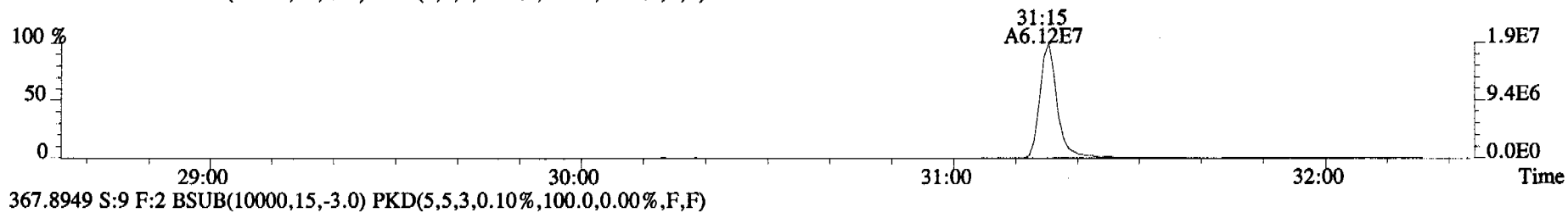
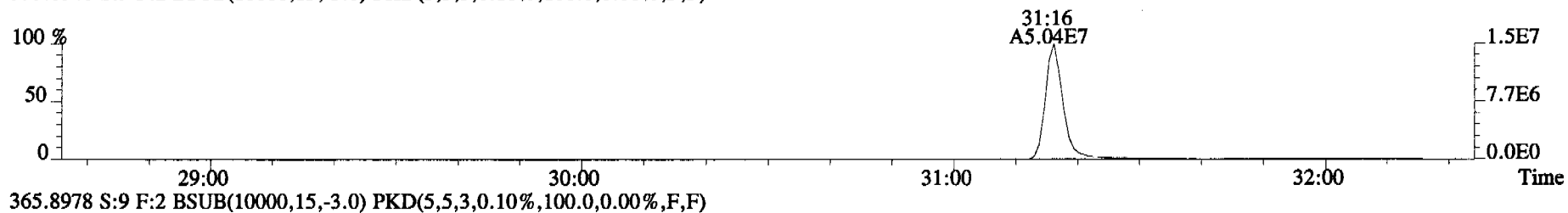
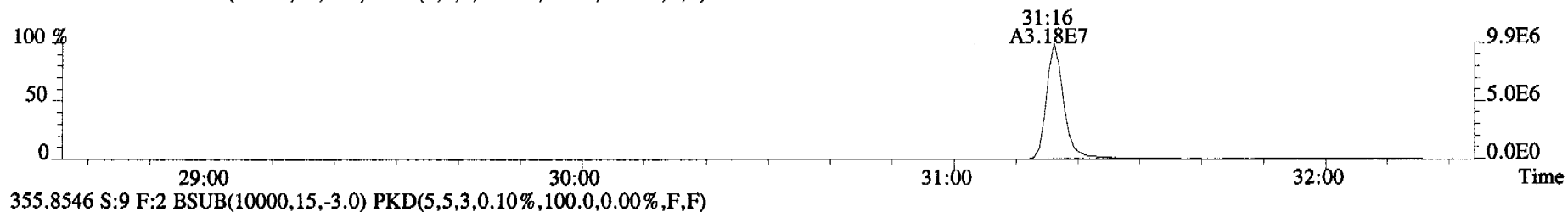
Integrations Reviewed  
by my by \_\_\_\_\_  
Analyst: \_\_\_\_\_ Analyst: \_\_\_\_\_

Date: 3/23/06 Date: \_\_\_\_\_

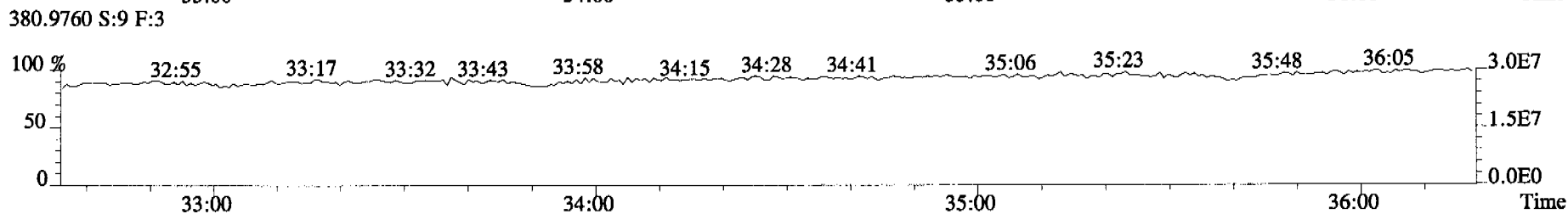
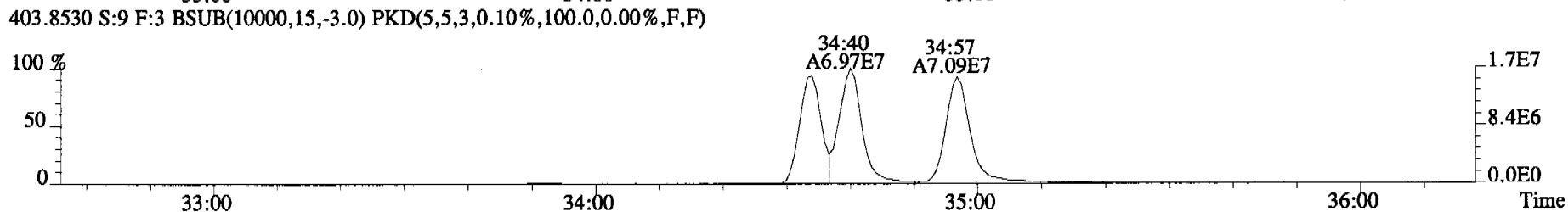
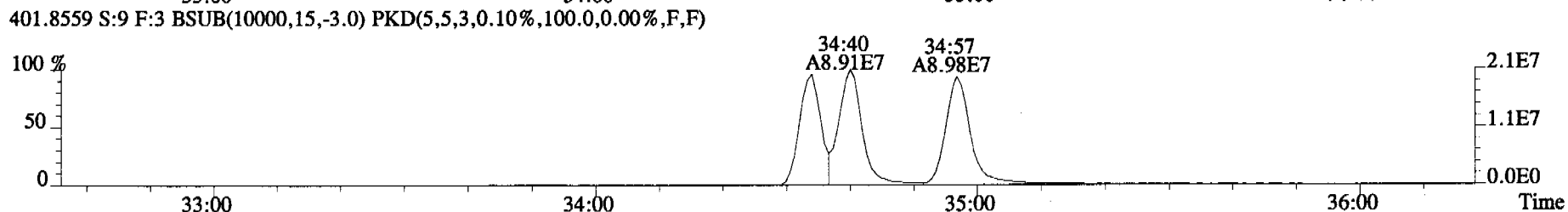
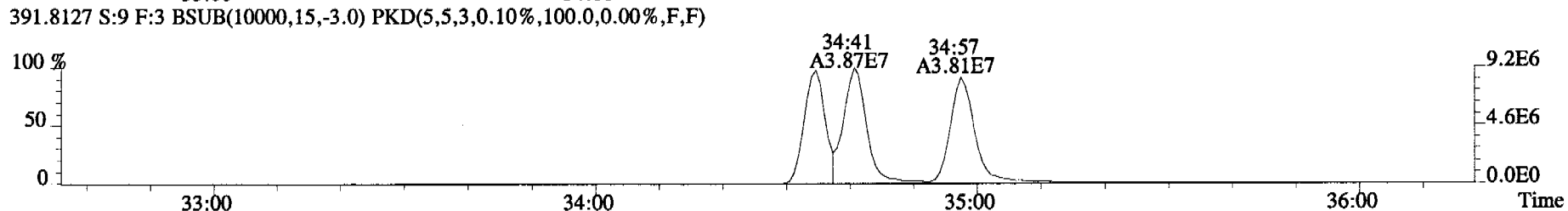
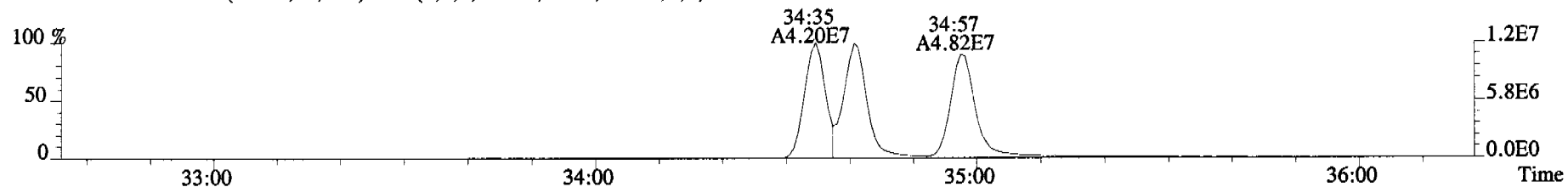
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



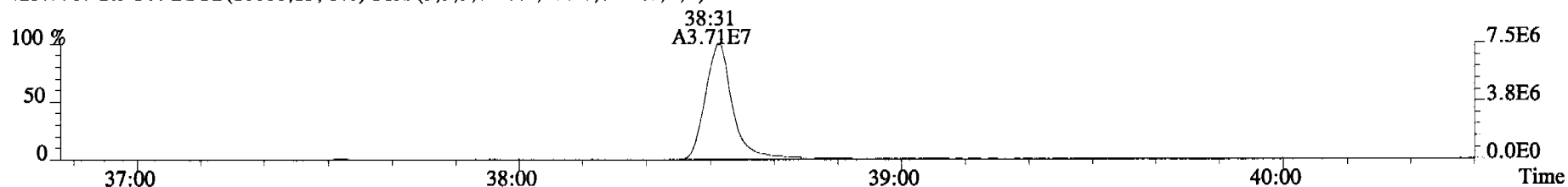
File:060322C1 #1-316 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
353.8576 S:9 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



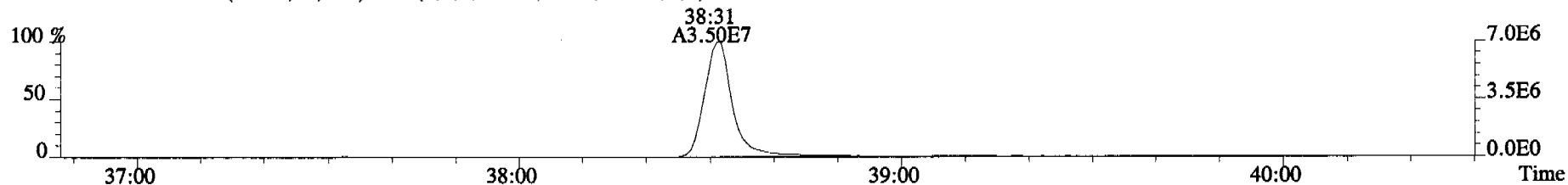
File:060322C1 #1-377 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



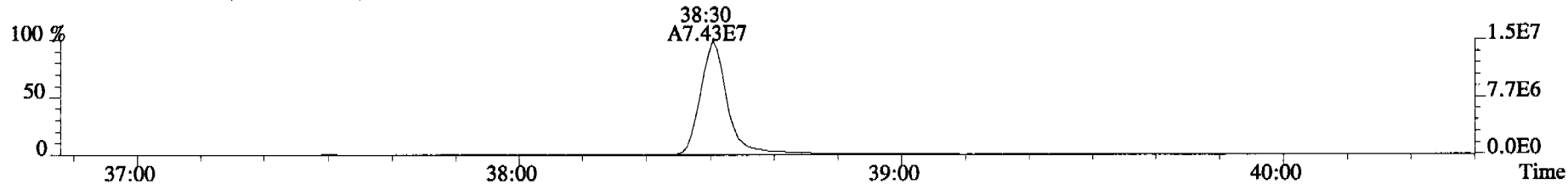
File:060322C1 #1-400 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



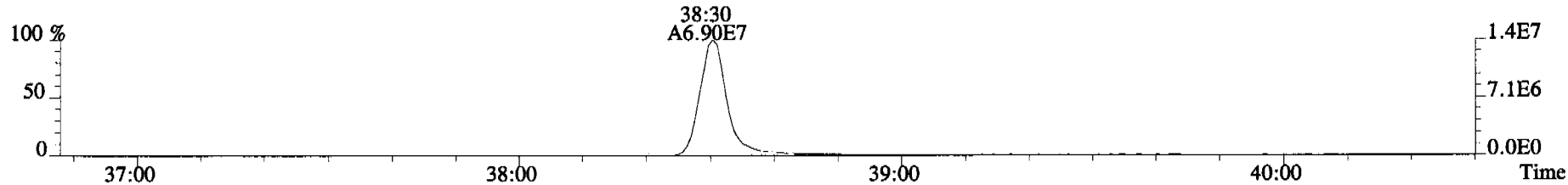
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



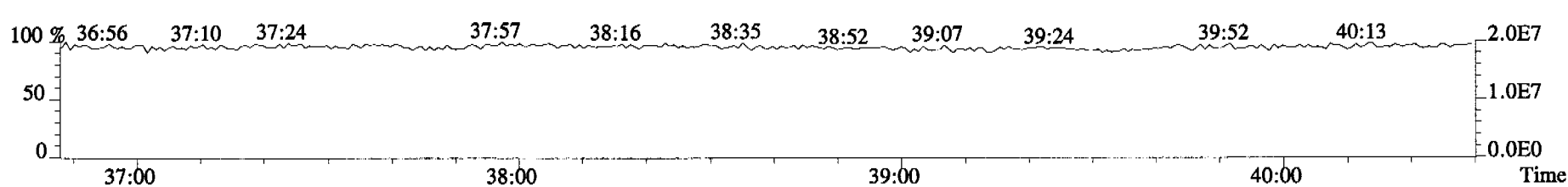
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



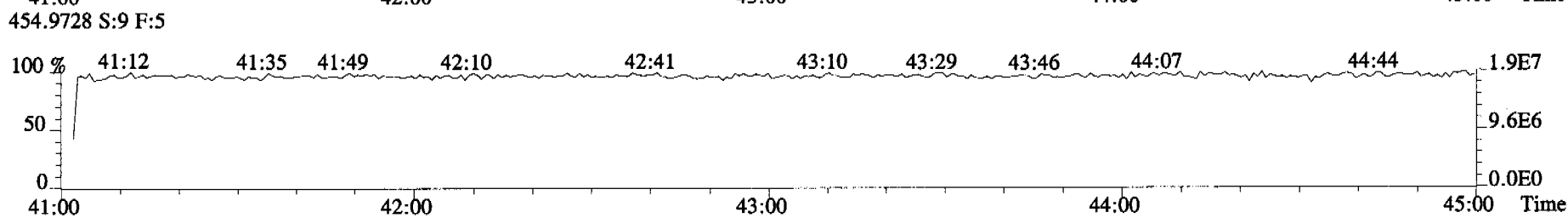
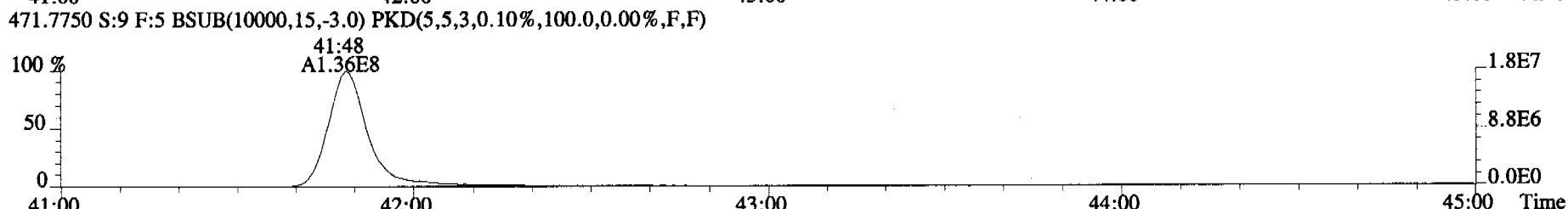
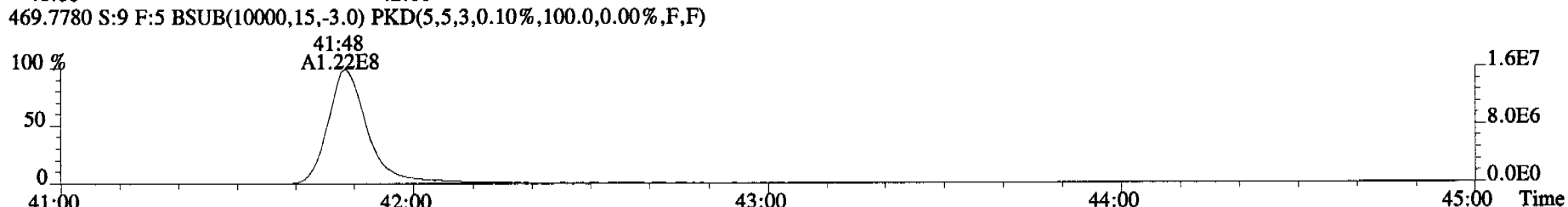
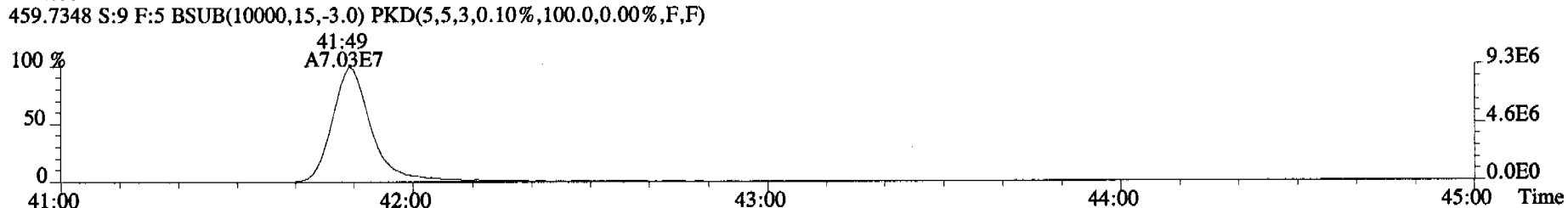
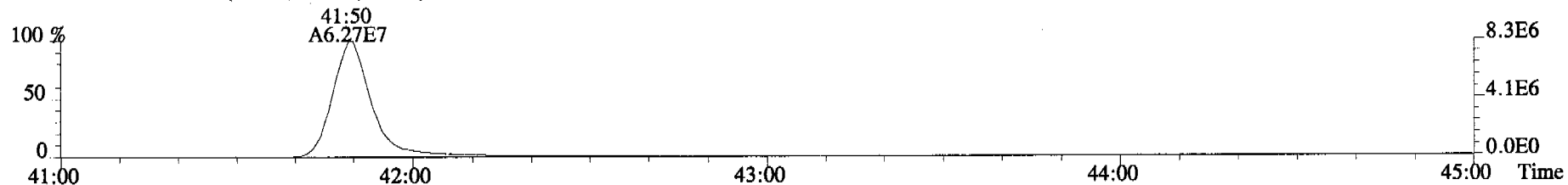
437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



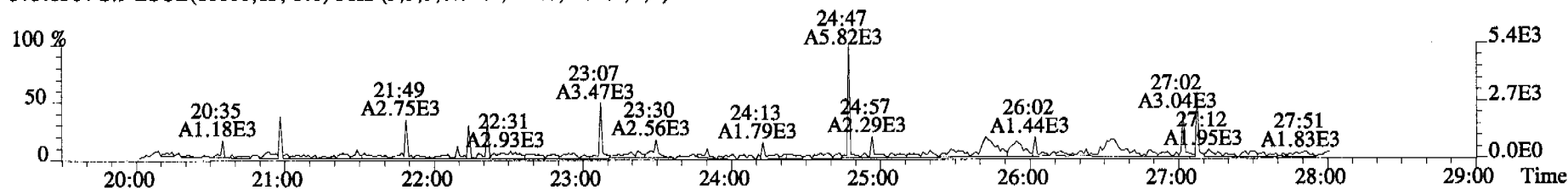
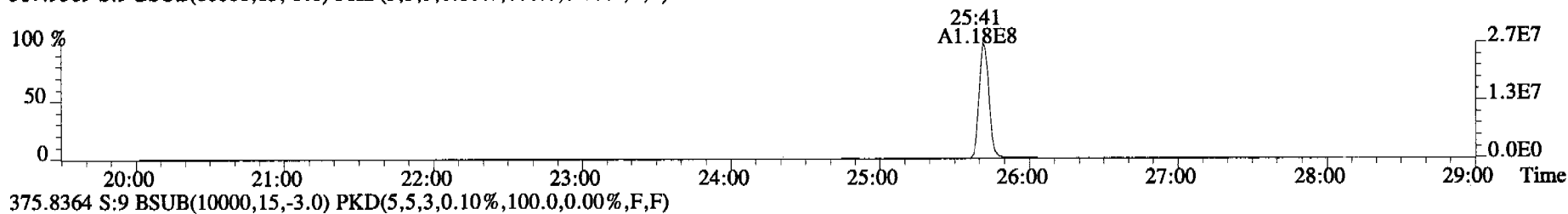
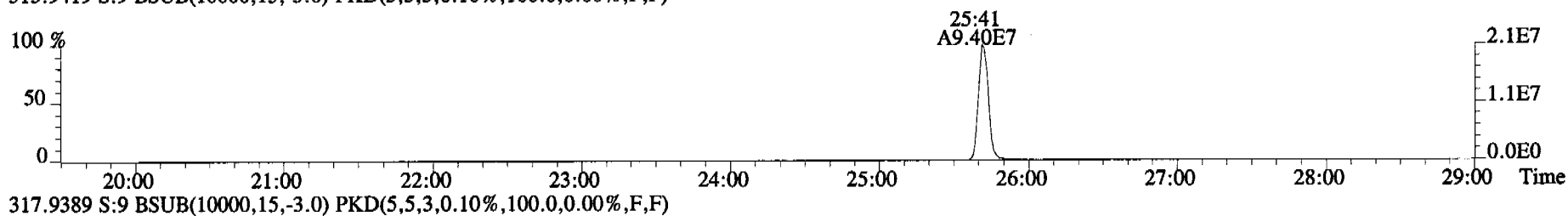
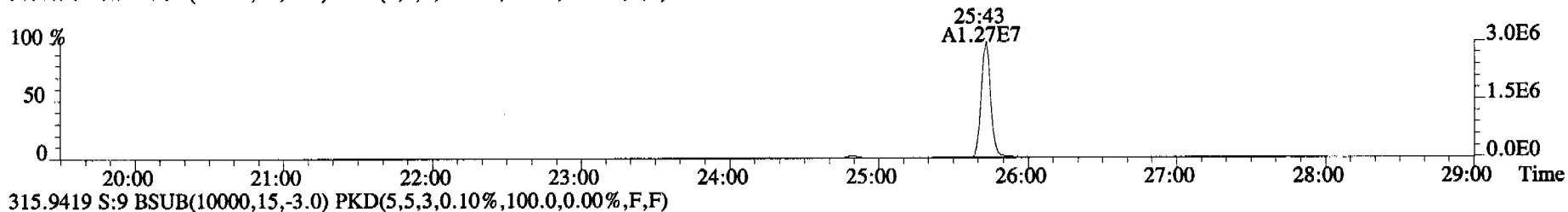
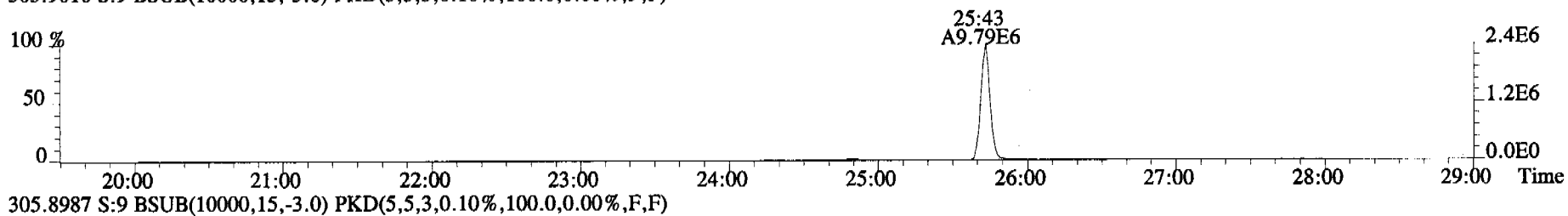
430.9728 S:9 F:4



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)

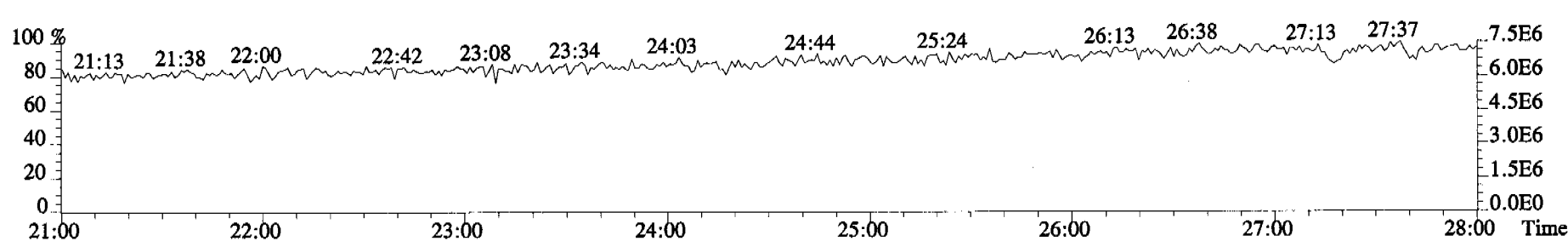
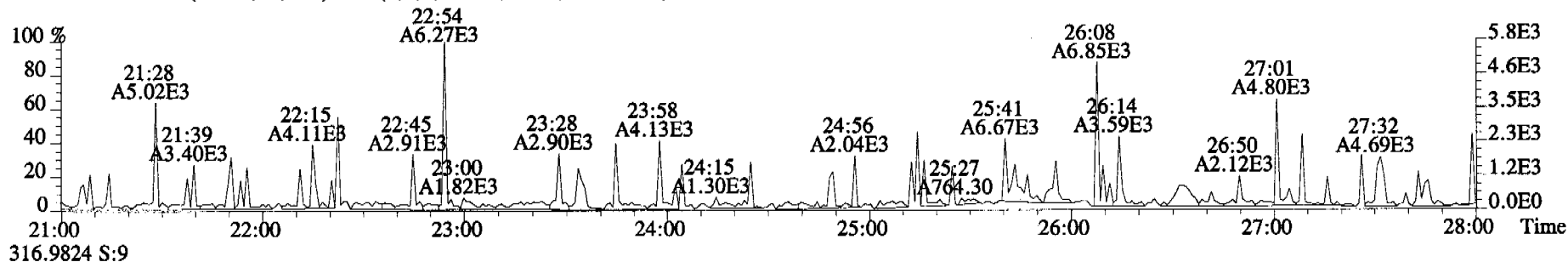
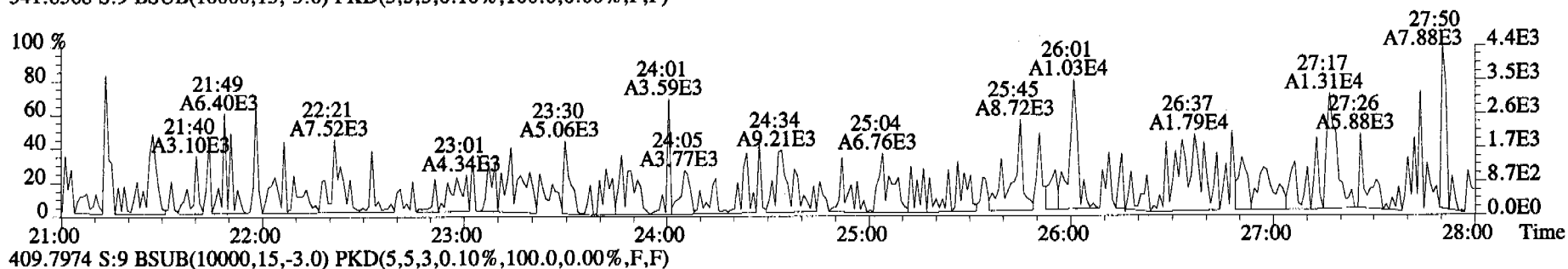
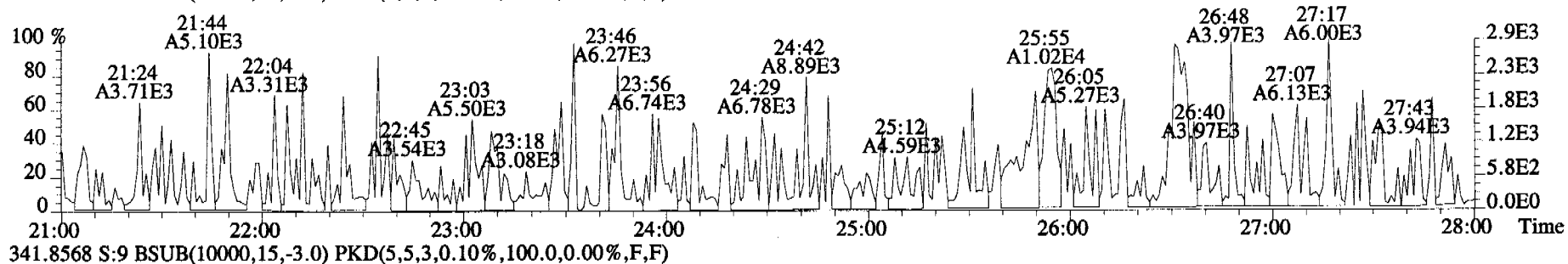


File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

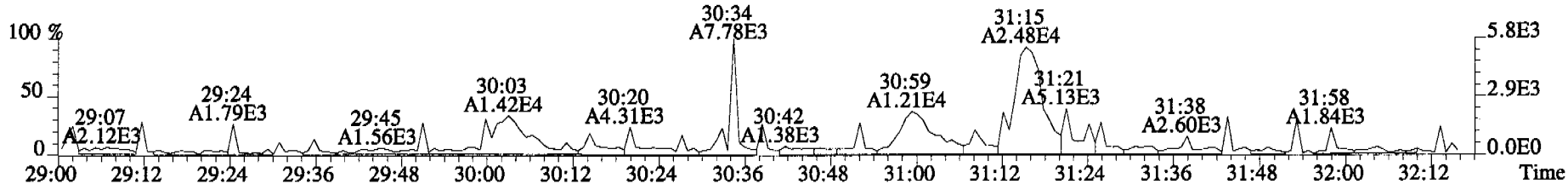
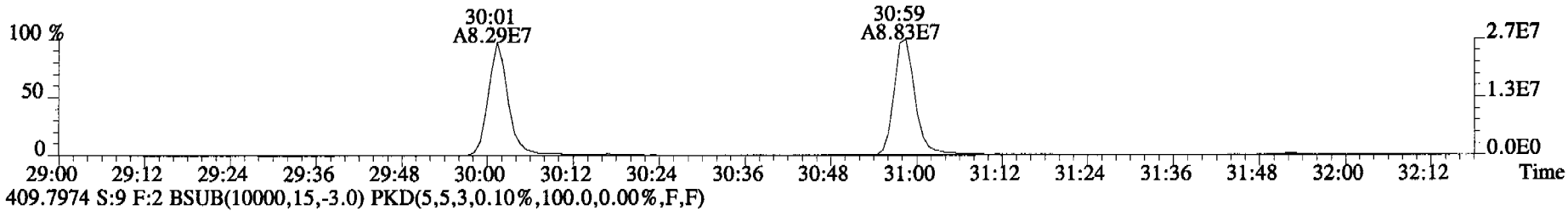
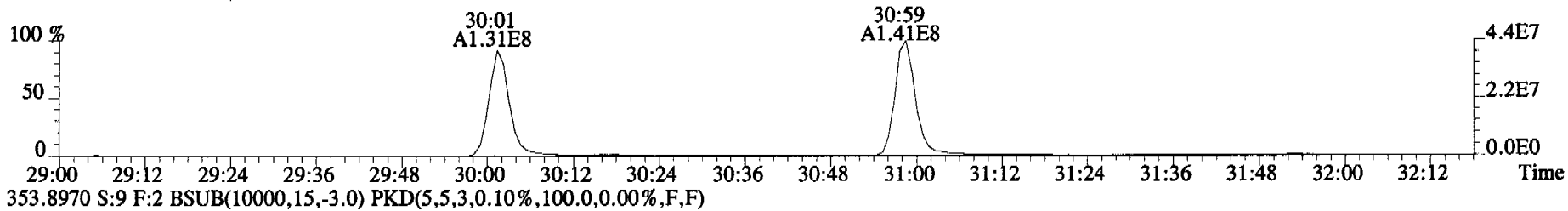
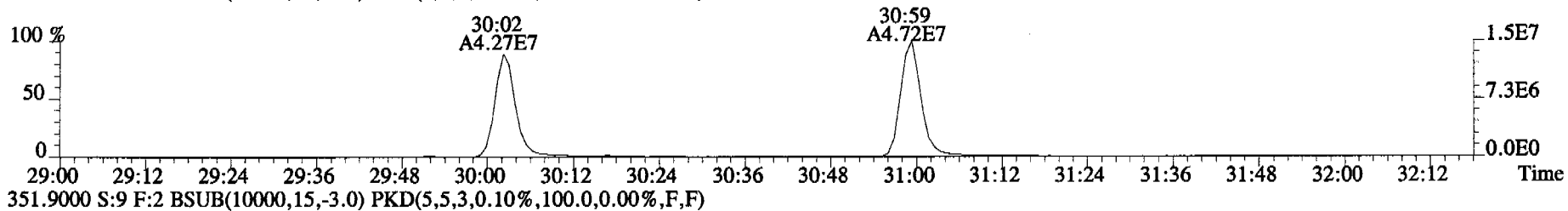
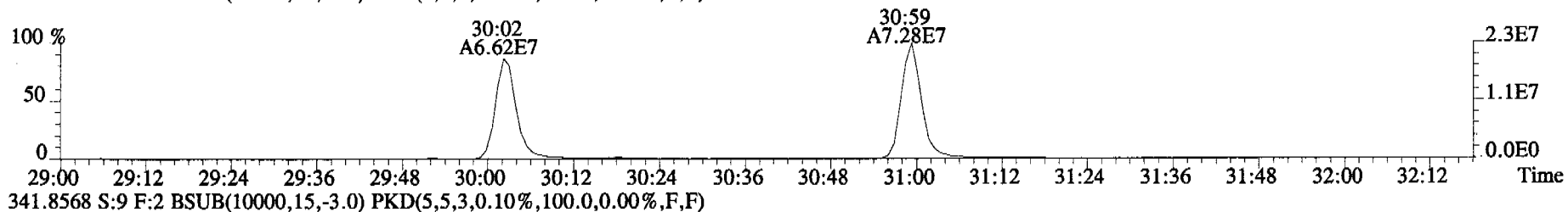




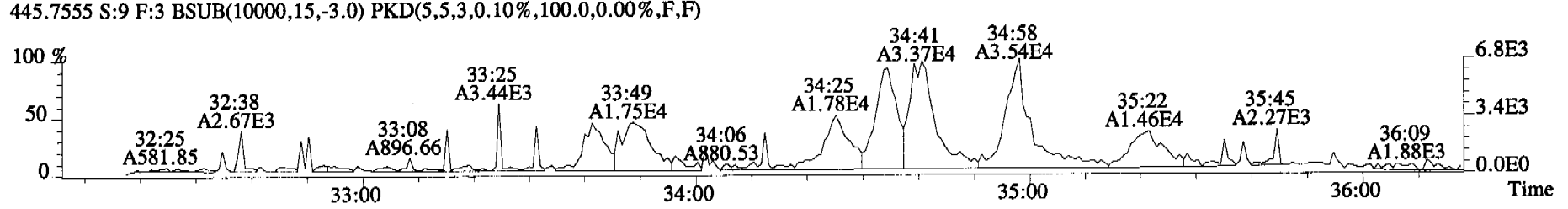
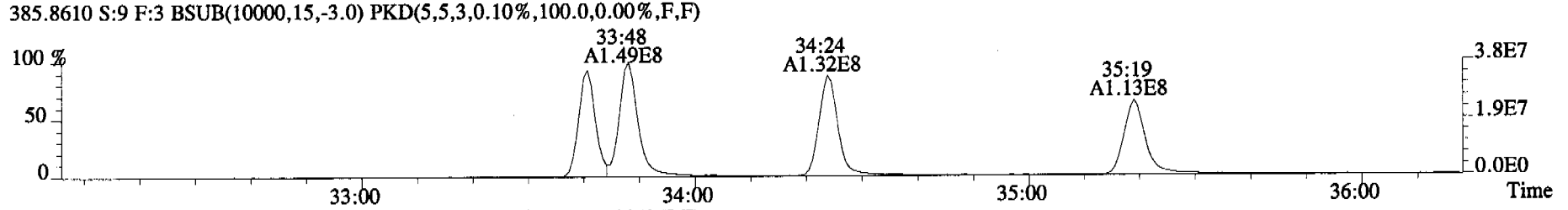
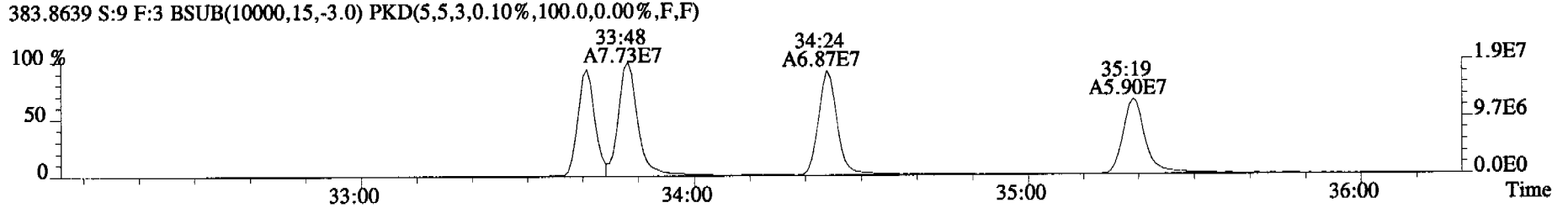
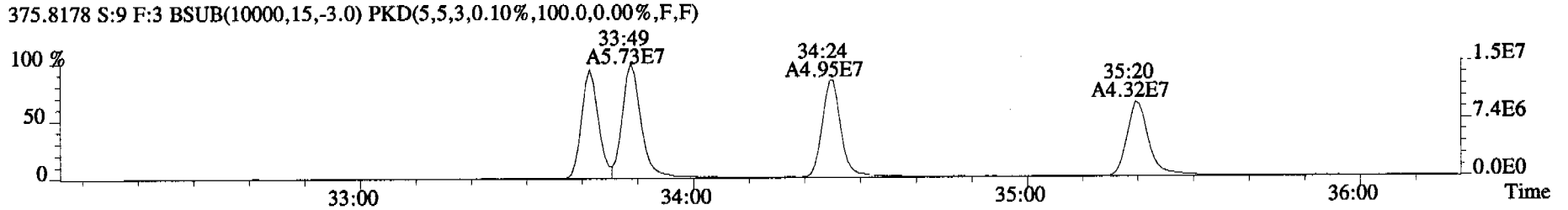
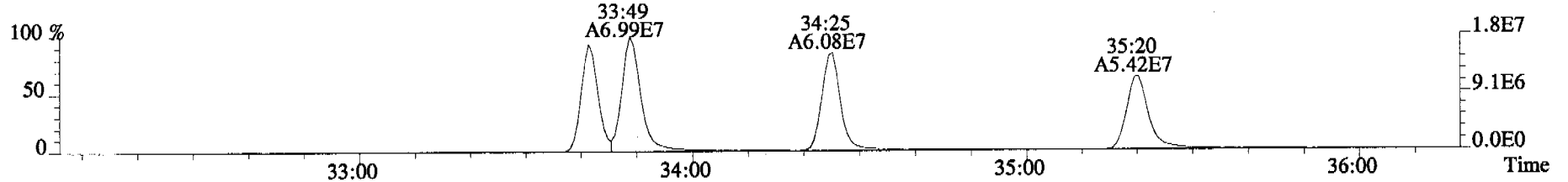
File:060322C1 #1-514 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



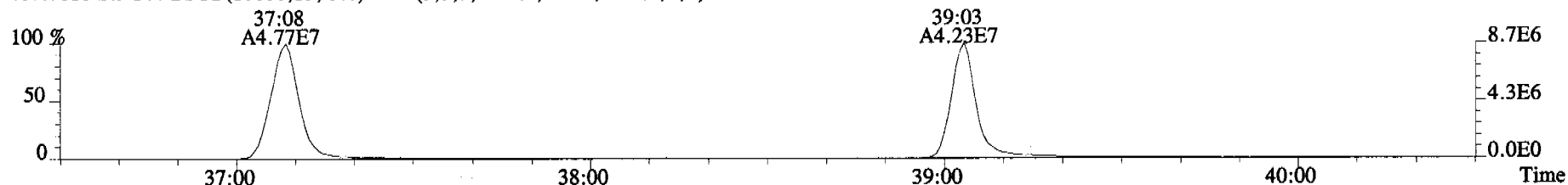
File:060322C1 #1-316 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



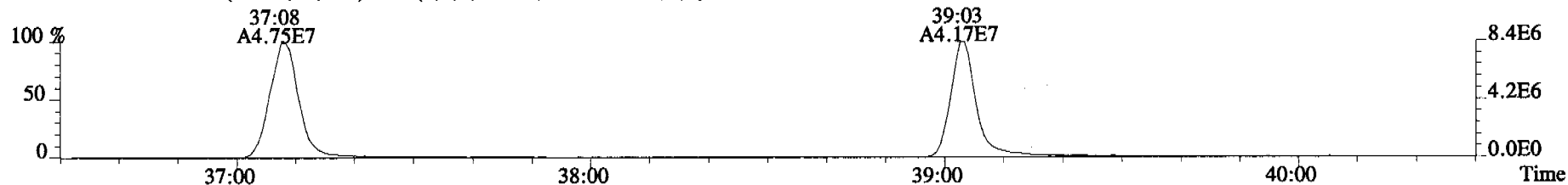
File:060322C1 #1-377 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



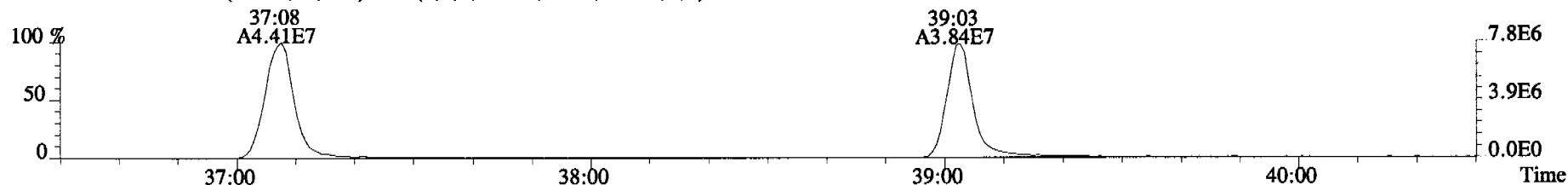
File:060322C1 #1-400 Acq:22-MAR-2006 16:10:24 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#9 File Text:Alta Analytical Laboratory Text:SS060322C1-1 SSS L050203A Exp:OCDD\_DB5  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



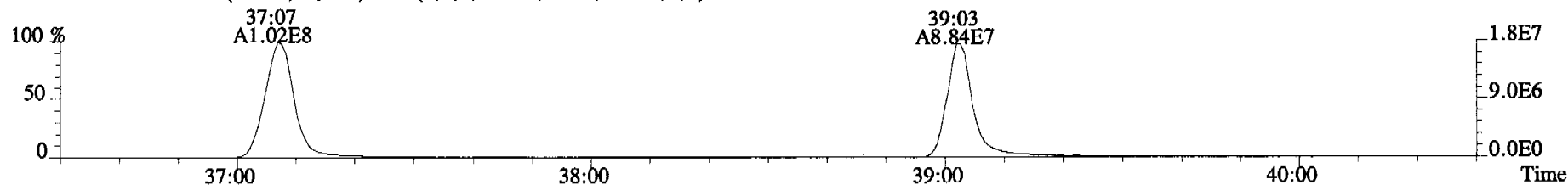
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



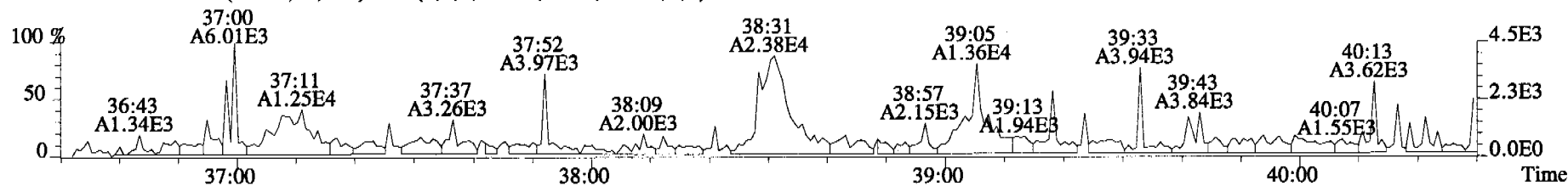
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)

